



## **CONSTRUCTION STANDARDS**

### **CITY OF ALBANY**

## **ENGINEERING DEPARTMENT**

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Charlie A. Clark, Civil Engineering Superintendent

**CITY STANDARD MISCELLANEOUS INDEX**

| <b><u>TOPIC / DESCRIPTION</u></b>                | <b><u>DETAIL NO.</u></b> |
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| DUMPSTER PAD, TYPE A                             | 1004                     |
| STANDARD UTILITY LOCATIONS                       | 1005                     |
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| TAPER FOR POWER POLES WITH GUY WIRES             | 1008                     |
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# CITY STANDARD PAVING INDEX

| <b>TOPIC / DESCRIPTION</b>                    | <b>DETAIL NO.</b> |
|---|-------------------|
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| STD RESIDENTIAL ST. SECTION                   | 2004              |
| TYPICAL UNPAVED ALLEY SECTION                 | 2005              |
| SLOPED UNPAVED ALLEY SECTION                  | 2006              |
| 18' PAVED ALLEY - INVERTED CROWN              | 2007              |
| 23' PAVED ALLEY - INVERTED CROWN              | 2007R             |
| STANDARD ALLEY TURNOUT                        | 2008              |
| FLARED 23' ALLEY TURNOUT                      | 2008A             |
| CONC. ALLEY TURNOUT ( IN CURVE)               | 2008R             |
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| VALLEY GUTTER - STREET INTERSECTION           | 2010              |
| STREET INTERSECTION WITH SPANDRELS            | 2011              |
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| STANDARD RESIDENTIAL DRIVEWAY                 | 2012              |
| SPECIAL APPROVAL RESIDENTIAL DRIVEWAY         | 2012A             |
| FLARED COMMERCIAL DRIVE TURNOUT               | 2012B             |
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| SUGGESTED MAX. GRADE FOR STD. RESID. DRIVEWAY | 2012D             |
| CONCRETE HEADER CURB                          | 2013              |
| CURB CUT RAMP                                 | 2014              |
| HANDICAP RAMP, TYPE A                         | 2015A             |
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| FEATHERED CURB & GUTTER                       | 2016              |

# CITY STANDARD PAVING INDEX

REVISED 7/26/2016

| <b>TOPIC / DESCRIPTION</b>  | <b>DETAIL NO.</b> |
|---|-------------------|
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| STANDARD STREET REPAIR  | 2017B             |
| STANDARD ALLEY SECTION WITH PARKING PADS  | 2018              |
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| FLUSH HEADER CURB   | 2020              |
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| TYPICAL PAVEMENT SECTION<br>(GRADED BASE OR SOIL CEMENT)                        | 2022A             |
| TYPICAL RESURFACING SECTION   | 2022B             |
| DETAIL FOR FEATHERING SURFACING AT CURB & GUTTER<br>(RESURFACING PROJECTS ONLY) | 2022C             |
| TYPICAL PAVEMENT WITH BITUMINOUS<br>SURFACE TREATMENT (BST) SECTION             | 2022D             |
| MILLING SECTION   | 2022E             |
| MAXIMUM GUTTER SPREAD-STD ST SECTION  | 2023              |
| TYPICAL DEPRESSION REPAIR DETAIL  | 2024              |
| TYPICAL DEPRESSION REPAIR OUTSIDE PAVED AREA                                    | 2024A             |
| TAPER FOR POWER POLES   | 2025              |
| INSTALLATION OF CURB & GUTTER ON EXIST. PAVMNT.                                 | 2026              |
| HANDICAP RAMP D.O.T. TYPE A   | 2027              |
| HANDICAP RAMP D.O.T. TYPE B   | 2028              |
| HANDICAP RAMP D.O.T. TYPE C   | 2029              |
| HANDICAP RAMP D.O.T. TYPE D   | 2030              |
| HANDICAP RAMP D.O.T. SKEWED   | 2031              |
| HANDICAP RAMP D.O.T. PLAN VIEW  | 2032              |
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| STANDARD JOINT LAYOUT FOR CONCRETE SIDEWALKS                                    | 2034              |



**CITY STANDARD WATER INDEX**

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# CITY STANDARD SANITARY SEWER INDEX

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**CITY STANDARD STORM SEWER INDEX**

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**CITY STANDARD EROSION CONTROL INDEX**

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NOTE: ADDITIONAL BEST MANAGEMENT PRACTICES AND CONSTRUCTION DETAILS FOR EROSION, SEDIMENT, AND POLLUTION CONTROL ARE AVAILABLE IN THE CURRENT EDITION OF THE "MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA" AND FROM THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

**CITY STANDARD EROSION CONTROL INDEX**

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NOTE: ADDITIONAL BEST MANAGEMENT PRACTICES AND CONSTRUCTION DETAILS FOR EROSION, SEDIMENT, AND POLLUTION CONTROL ARE AVAILABLE IN THE CURRENT EDITION OF THE "MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA" AND FROM THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

**CITY STANDARD TRAFFIC INDEX**

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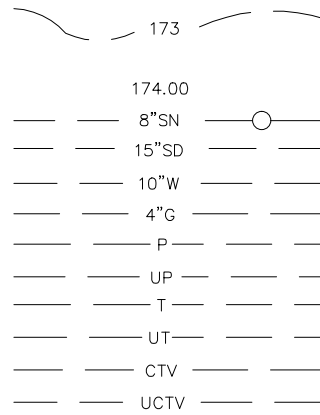
**CITY STANDARD MISCELLANEOUS INDEX**

| <b>TOPIC / DESCRIPTION</b>                | <b>DETAIL NO.</b> |
|---|-------------------|
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| TEMPORARY CONSTRUCTION FENCE              | 9004              |
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| GOLF CART WASH PAD                        | 9009              |
| GRATE INLET                               | 9010              |
| GREASE TRAP                               | 9011              |

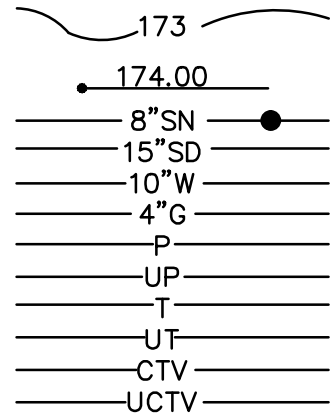
CONTOUR LINE

SPOT ELEVATION  
 SANITARY SEWER & MANHOLE  
 STORM SEWER  
 WATERLINE  
 GAS LINE  
 AERIAL ELECTRIC LINE  
 UNDERGROUND ELEC. LINE  
 AERIAL TELEPHONE LINE  
 UNDERGROUND TELE. LINE  
 AERIAL CABLE T.V.  
 UNDERGROUND CABLE T.V.

EXISTING



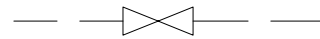
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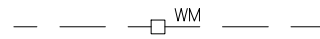
TREE, TYPE AND SIZE



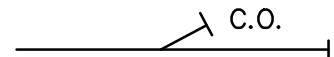
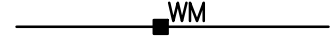
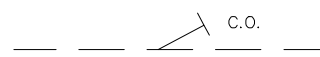
WATER VALVE



WATER METER



SANITARY SEWER CLEANOUT



FIRE HYDRANT



POWER POLE



POWER POLE W/GUY



STREET LIGHT



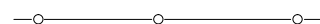
CONSTRUCTION LIMITS



BACK FLOW PREVENTER



CHAIN LINK FENCE



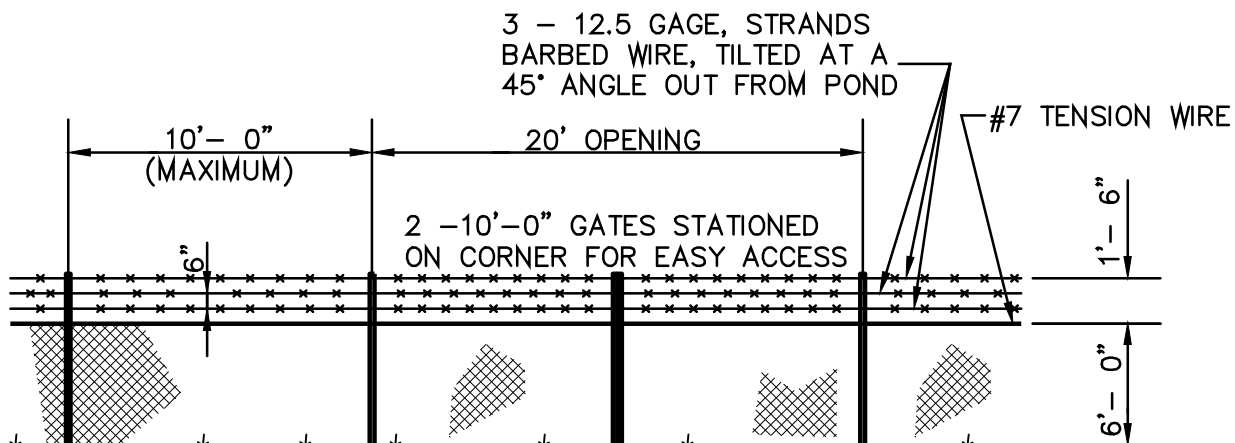
LEGEND

DETAIL NO:

1001

DATE: 10/10/1988

8'0" POSTS ARE USED WITH  
2'-0" IN GROUND SET IN  
CONCRETE.



| USE AND SECTION   | OUTSIDE DIAMETER<br>INCHES                                       | WEIGHT PER FT.<br>POUNDS |
|---|--|--------------------------|
| GATE POST.....  | ROUND: 4.00  | 9.11                     |
| END, CORNER, OR PULL POST.....<br>OVER 6 FT. HEIGHT                                     | ROUND: 2.875, 3.00   | 5.79                     |
| GATE, INTERIOR BRACING TUBULAR.....<br>FOR FABRIC HEIGHT OVER 6 FT. HIGH                | ROUND: 1.625   | 2.27                     |
| INTERMEDIATE POST.....<br>FABRIC HEIGHT OVER 6 FT.                                      | ROUND: 2.50  | 3.65                     |
| FENCE GAGES<br>9 GAGE - STANDARD<br>11.5 GAGE - RESIDENTIAL<br>6 GAGE - SPECIAL PURPOSE | NOTE: COORDINATION WITH<br>CITY ENGINEERING DIVISION<br>REQUIRED |                          |

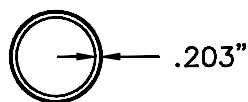
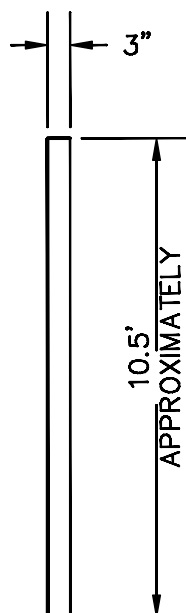
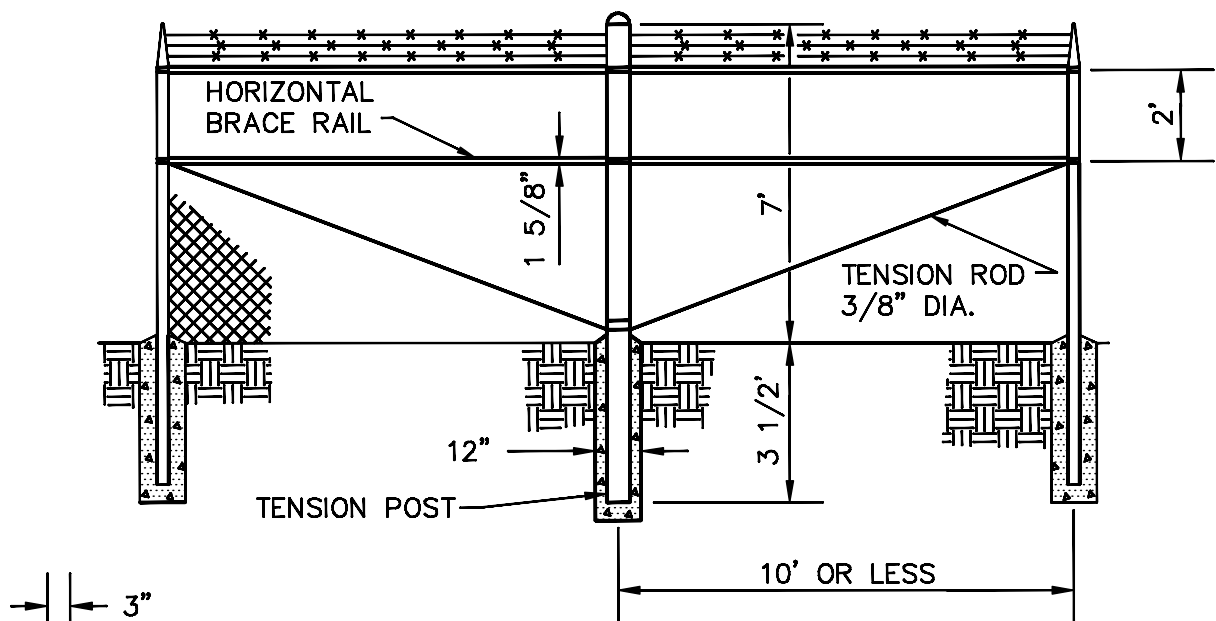
REVISED:  
06/16/2015

## CHAIN LINK FENCE TYPE A

DETAIL NO:

1002

DATE: 10/03/1988



DETAIL OF TENSION POST

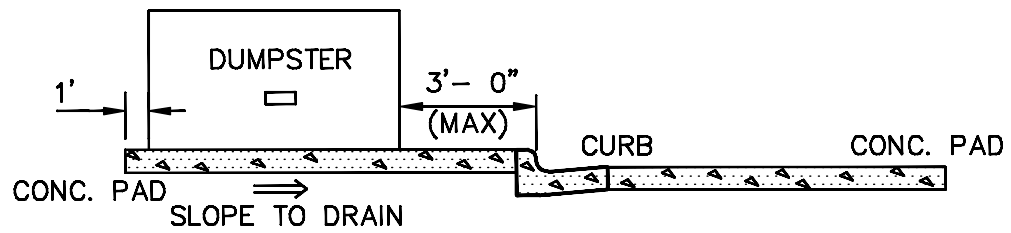
| USE AND SECTION   | OUTSIDE DIAMETER<br>INCHES                                       | WEIGHT PER FT.<br>POUNDS |
|---|--|--------------------------|
| END, CORNER, OR PULL POSTS  | ROUND: 2.375<br>SQUARE: 2.00                                     | 3.65<br>3.85             |
| GATE POST, AND GATE FRAMES FOR<br>NOMINAL WIDTH OF GATE, SINGLE<br>OR ONE LEAF OF DOUBLE: 6 FT. OR LESS | ROUND: 4.00<br>SQUARE: 2.50                                      | 9.71<br>5.70             |
| GATE WIDTH - 13 FT. AND LESS<br>(V BRACED)  | ROUND: 4.00<br>SQUARE: 3.00                                      | 9.11<br>9.10             |
| GATES: EXTERIOR AND EXTERIOR FRAMES<br>FOR FABRIC 6 FT AND LESS   | ROUND: 1.66<br>SQUARE: 1.50                                      | 2.27<br>1.625            |
| RAIL AND POST BRACING INTERMEDIATE<br>POST FOR FABRIC HT. OF 6 FT. OR LESS                              | ROUND: 1.660<br>SQUARE: 1.625<br>H-SECTION 875x1.625x.113        | 2.27<br>2.72<br>2.70     |
| END, CORNER, OR PULL POST<br>OVER 6 FT. HEIGHT  | ROUND: 2.85<br>SQUARE: 2.50                                      | 5.79<br>5.70             |
| GATE, INTERIOR BRACING TUBULAR<br>FOR FABRIC HEIGHT OVER 6 FT. HIGH                                     | ROUND: 1.66<br>SQUARE: 1.50                                      | 2.27<br>1.625            |
| INTERMEDIATE POST,<br>FABRIC HEIGHT OVER 6 FT.  | ROUND: 2.375<br>H-SECTION 875x1.95x0.143                         | 2.65<br>4.10             |
| FENCE GAGES<br>9 GAGE - STANDARD<br>11.5 GAGE - RESIDENTIAL<br>6 GAGE - SPECIAL PURPOSE                 | NOTE: COORDINATION WITH<br>CITY ENGINEERING DIVISION<br>REQUIRED |                          |

TENSION  
POST

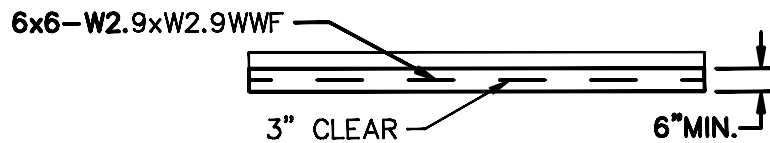
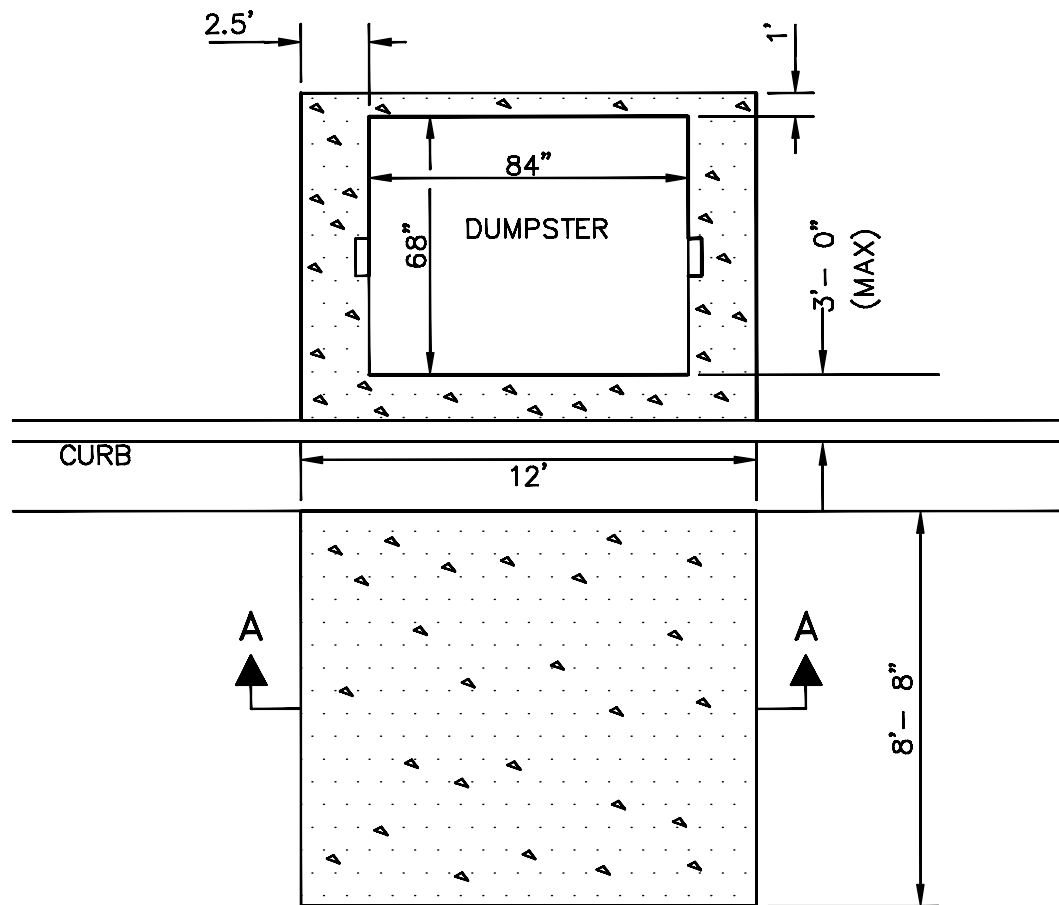
DETAIL NO:

1003

DATE: 09/08/1988



AT CURB



SECTION A-A

NTS

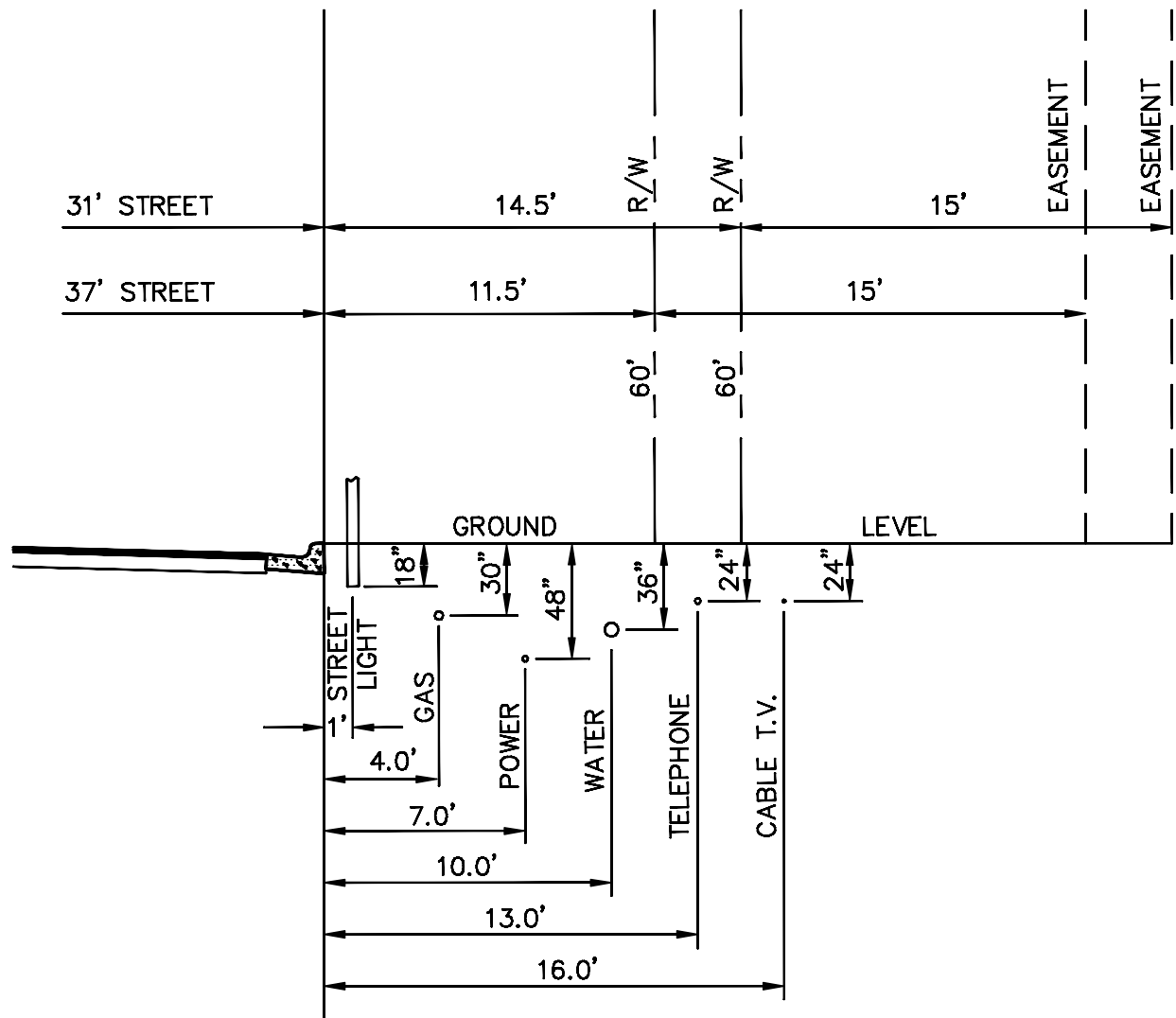
REV. DATE:  
11/13/1995

DUMPSTER PAD  
TYPE A

DETAIL NO:

1004

DATE: 10/10/1988



**NOTE:**

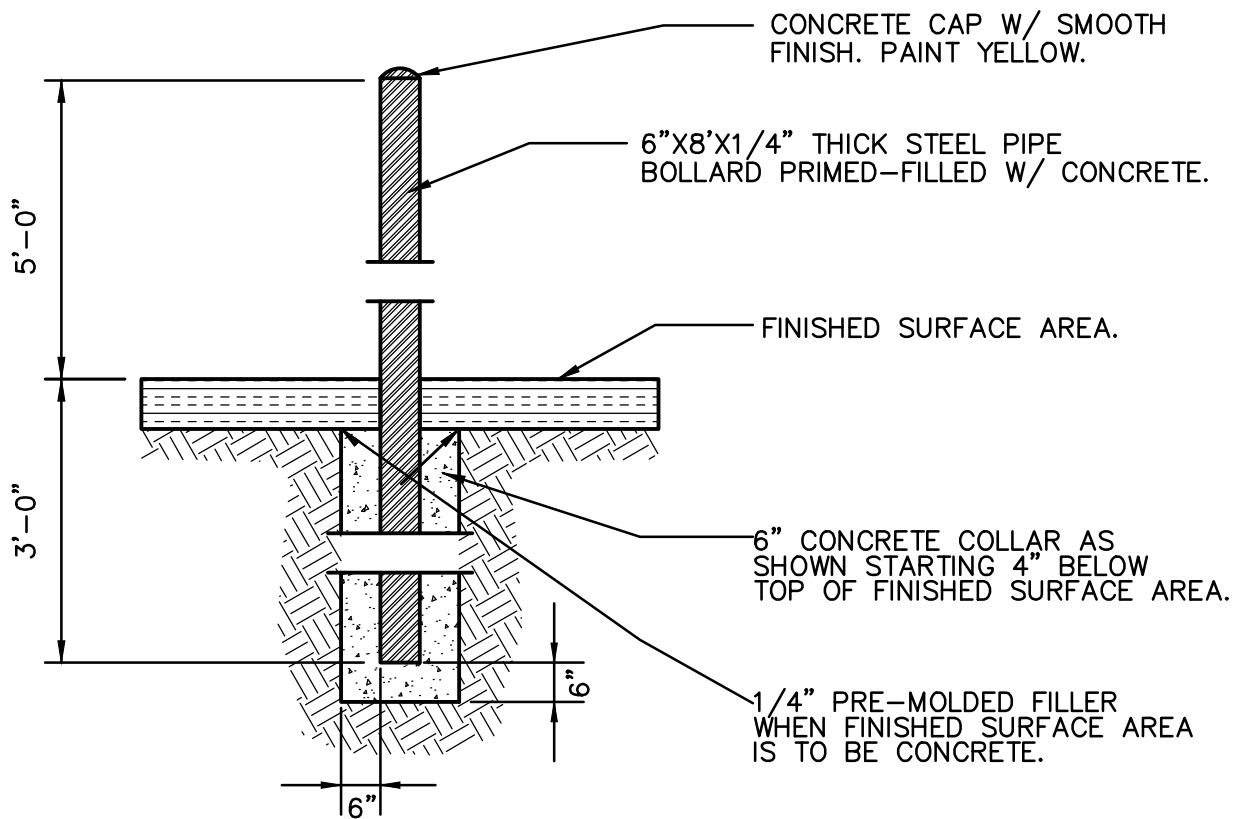
LOCATION OF UTILITIES MAY VARY AT LOCATIONS WHERE SANITARY OR STORM SEWER REQUIRES THAT POSITION. OTHER LOCATIONS WILL BE CONSIDERED BY REVIEWING AUTHORITY WHERE THIS STANDARD IS NOT FEASIBLE.

# STANDARD UTILITY LOCATIONS

DETAIL NO:

1005

DATE: 09/08/1988



NTS

REV. DATE:  
06/17/1902

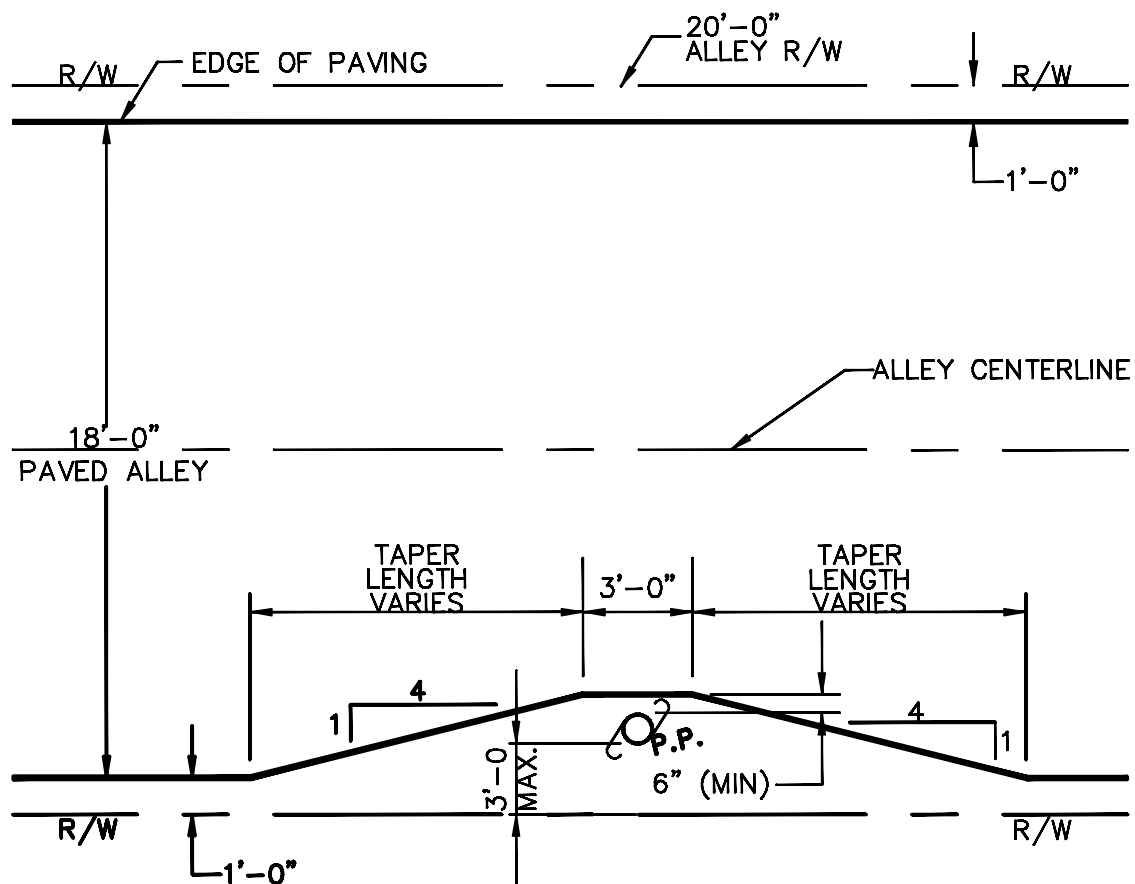
## PIPE BOLLARD

DETAIL NO:

1006

DATE: 06/17/02





TAPER FOR POWER POLES

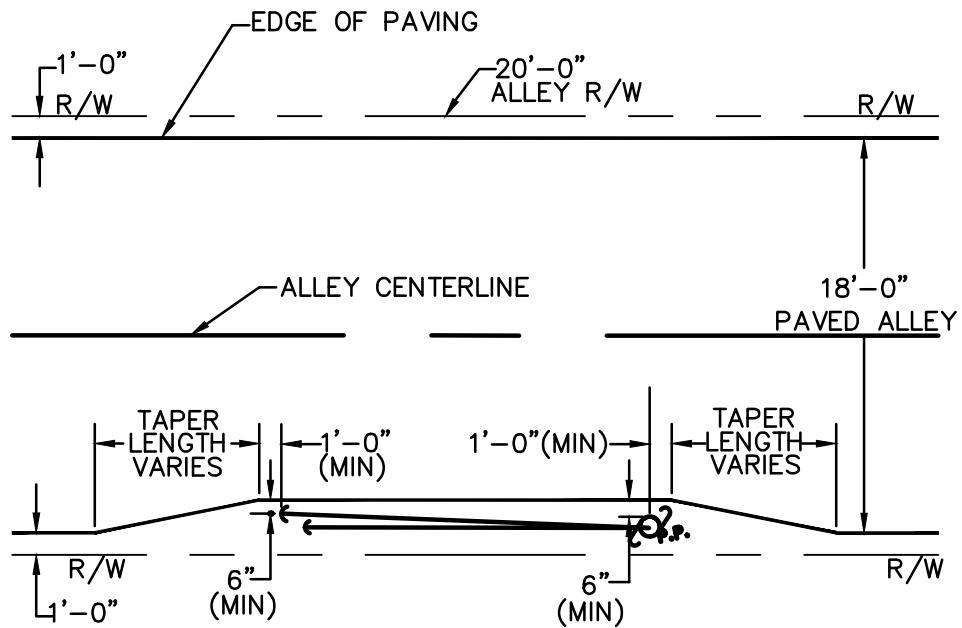
N.T.S.

TAPER FOR POWER  
POLES

DETAIL NO:

1007

DATE: 07/28/98



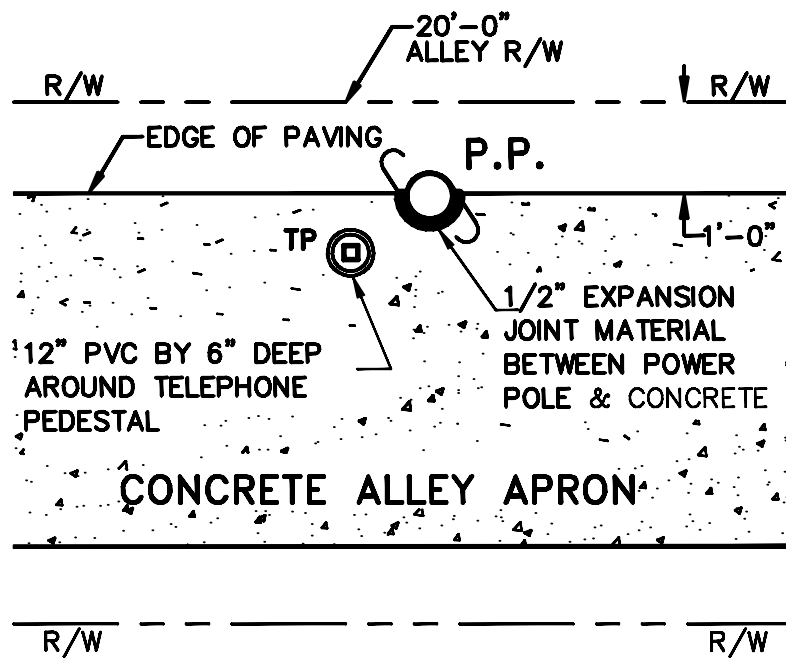
N.T.S.

TAPER FOR POWER POLE  
(WITH GUY WIRES)

DETAIL NO:

1008

DATE: 07/28/98



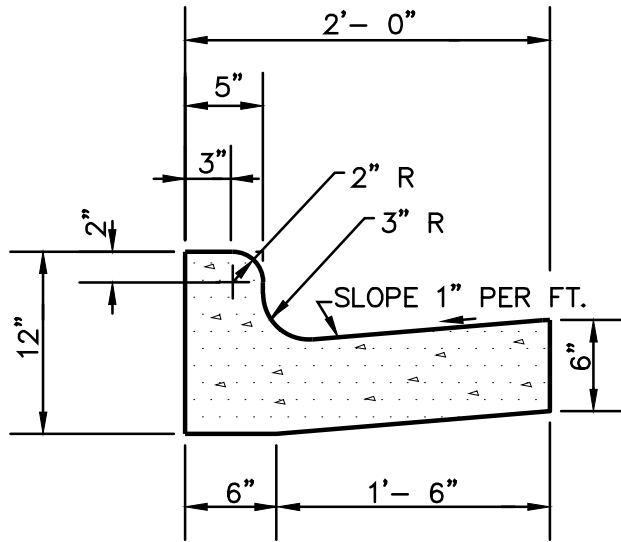
N.T.S.

POWER POLE & TELEPHONE  
PEDESTAL IN CONCRETE  
ALLEY APRON

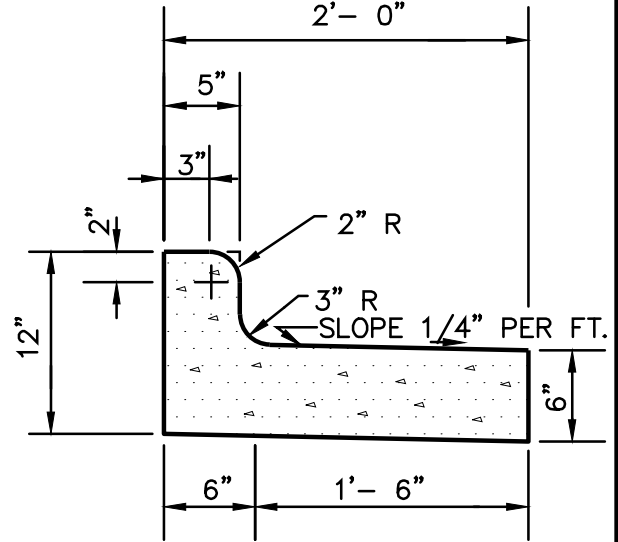
DETAIL NO:

1009

DATE: 07/28/98



STANDARD  
TYPE A-24"



PITCHED  
TYPE B-24"

NOTES:

1. PITCHED GUTTER TO BE USED IN ALL CASES WHERE PAVEMENT IS SLOPED AWAY FROM CURB.
2. ALL CURB AND GUTTER TO BE 3000 PSI CONCRETE.
3. CURB AND GUTTER TO BE CONSTRUCTED IN 10 FOOT LENGTHS.
4. 1/2" EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 50 FEET AT THE ENDS AND MID-POINTS OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUT OTHER CONCRETE STRUCTURES.
5. 5' LONG TRANSITIONS SHALL BE PROVIDED BETWEEN NORMAL GUTTER AND PITCHED GUTTER UNLESS OTHERWISE NOTED ON THE PAVING PLANS.

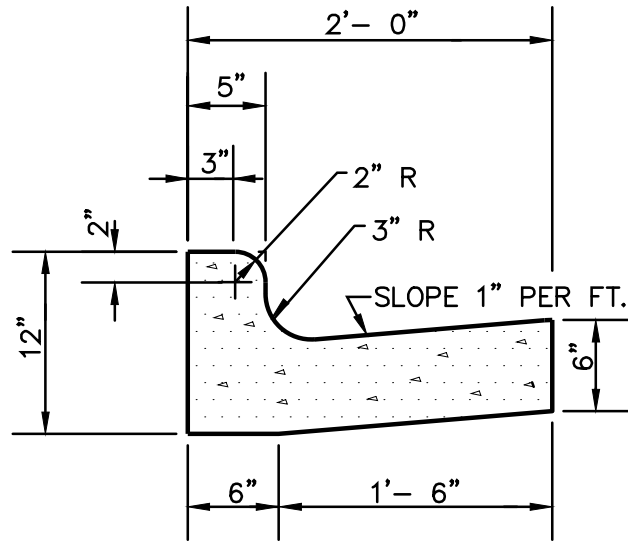
REVISED:  
02/08/2013

CURB & GUTTER  
TYPES A & B

DETAIL NO:

2001

DATE:09/28/1988



STANDARD  
TYPE A-24"

NOTES:

1. CURB AND GUTTER TO BE CONSTRUCTED IN 10 FOOT LENGTHS.
2. ALL CURB AND GUTTER TO BE 3000 PSI CONCRETE.
3. 1/2" EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 100 FEET AT THE ENDS AND MID-POINTS OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUT OTHER CONCRETE STRUCTURES.

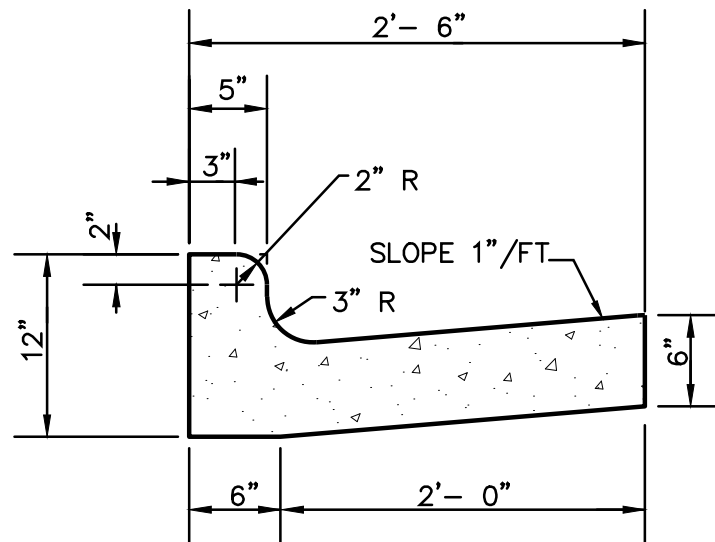
REVISED:  
02/08/2013

CURB & GUTTER  
TYPE A

DETAIL NO:

2001A

DATE: 09/28/1988



STANDARD  
TYPE A-30"

NOTES:

1. CURB AND GUTTER TO BE CONSTRUCTED IN 10 FOOT LENGTHS.
2. ALL CURB AND GUTTER TO BE 3000 PSI CONCRETE.
3. 1/2" EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 100 FEET AT THE ENDS AND MID-POINTS OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUT OTHER CONCRETE STRUCTURES.

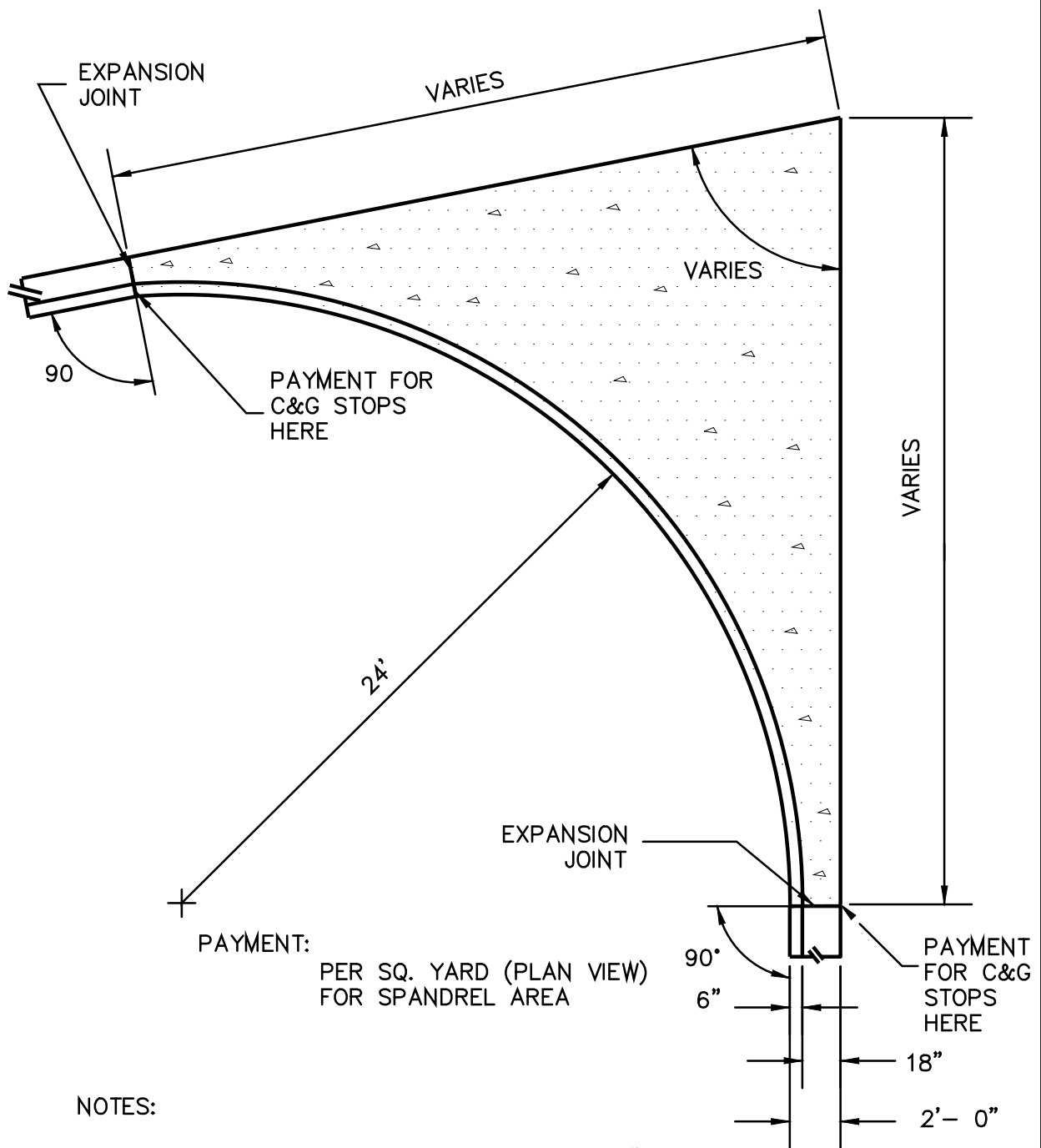
REVISED:  
02/08/2013

CURB & GUTTER  
TYPE A - 30"

DETAIL NO:

2001B

DATE: 07/18/2005



NOTES:

1. CONCRETE THICKNESS FOR SPANDREL IS 6".
2. ALL SPANDREL TO BE 3000 PSI CONCRETE.

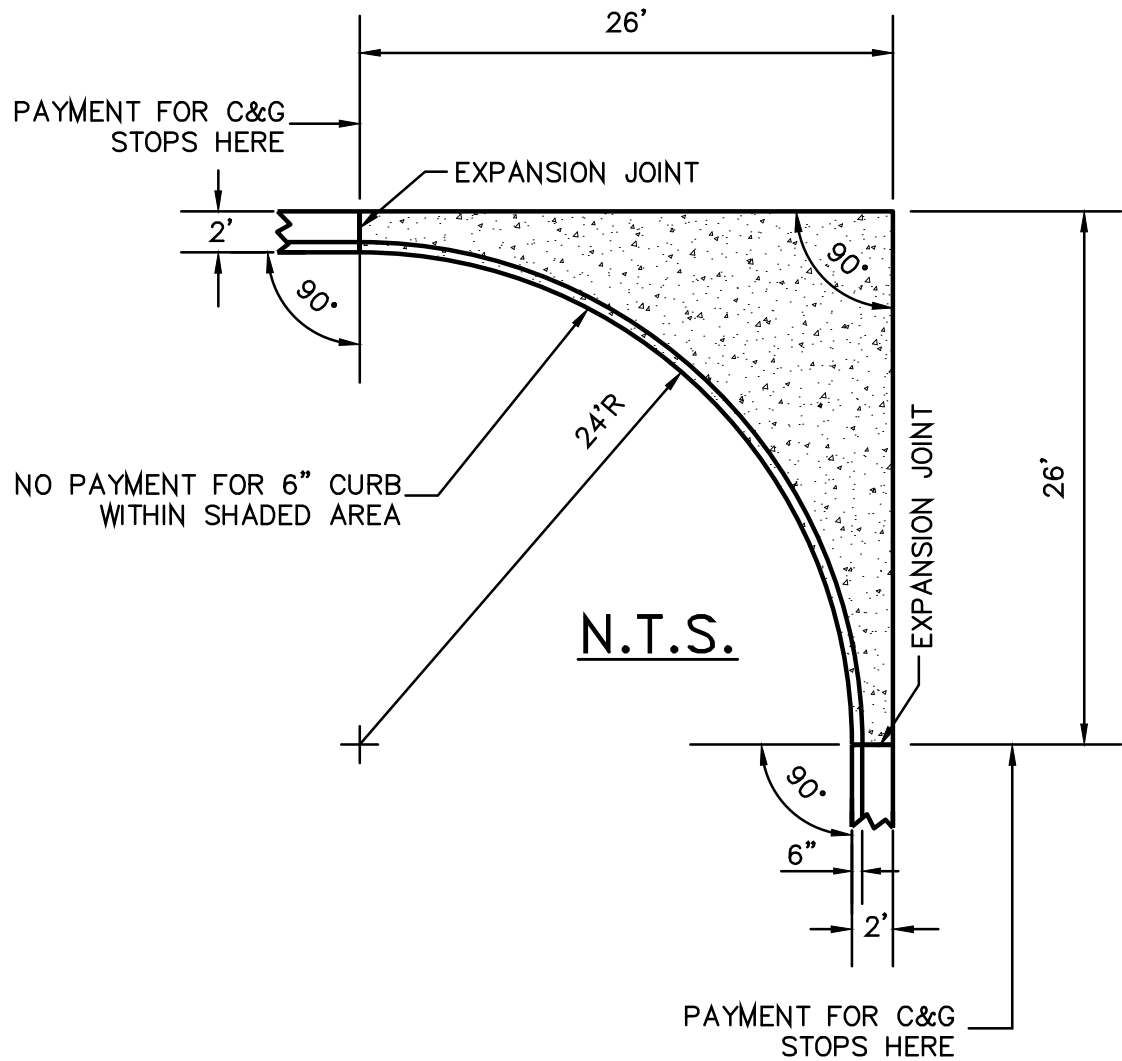
REVISED:  
02/08/2013

# NON-STANDARD SPANDREL

DETAIL NO:

2002

DATE:09/28/1988



NOTES:

1. CONCRETE THICKNESS FOR SPANDREL IS 6".
2. ALL SPANDREL TO BE 3000 PSI.
3. PAYMENT FOR SPANDREL AREA IS PER SQ. YARD.

REVISED:  
02/08/2013

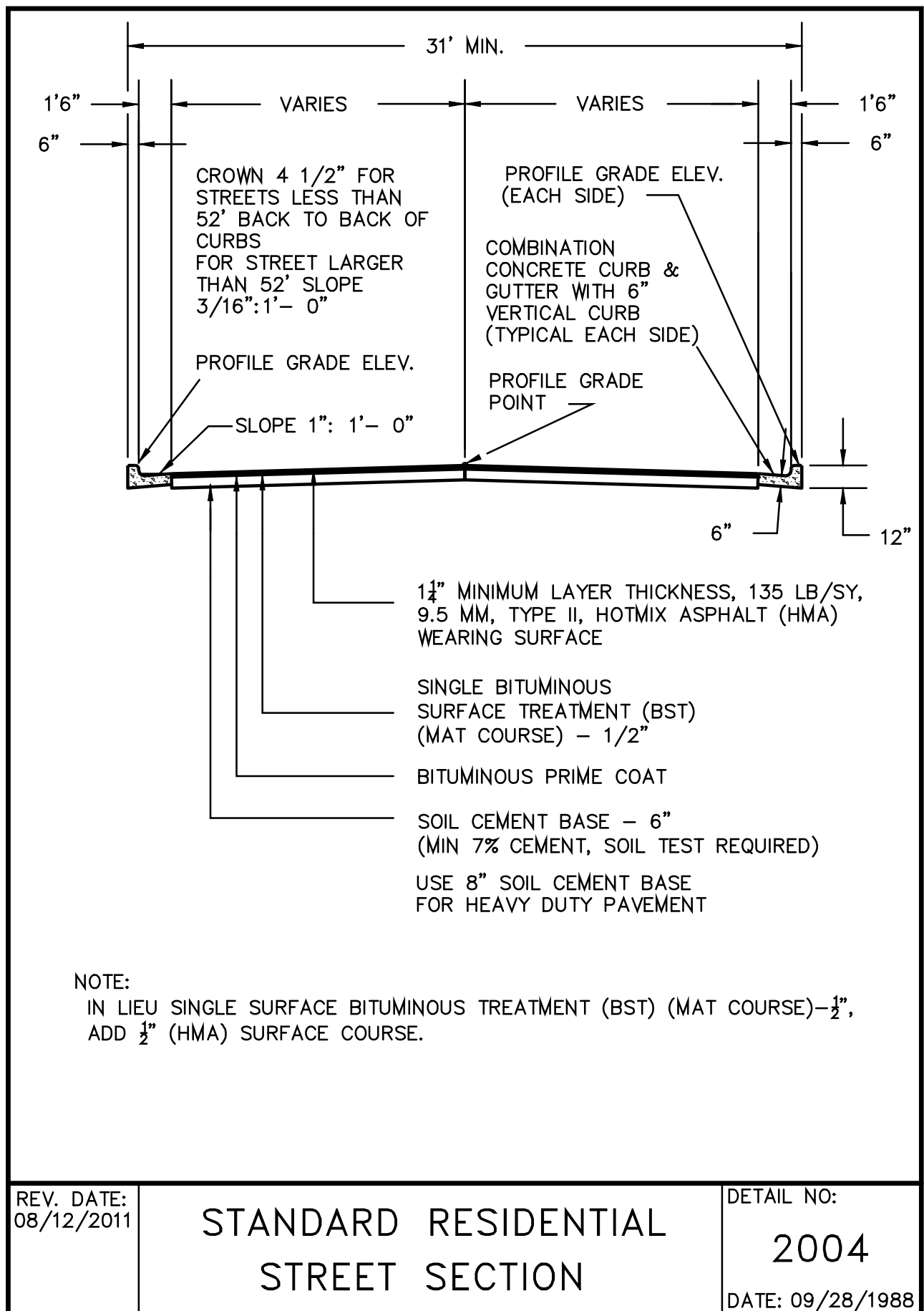
## STANDARD SPANDREL

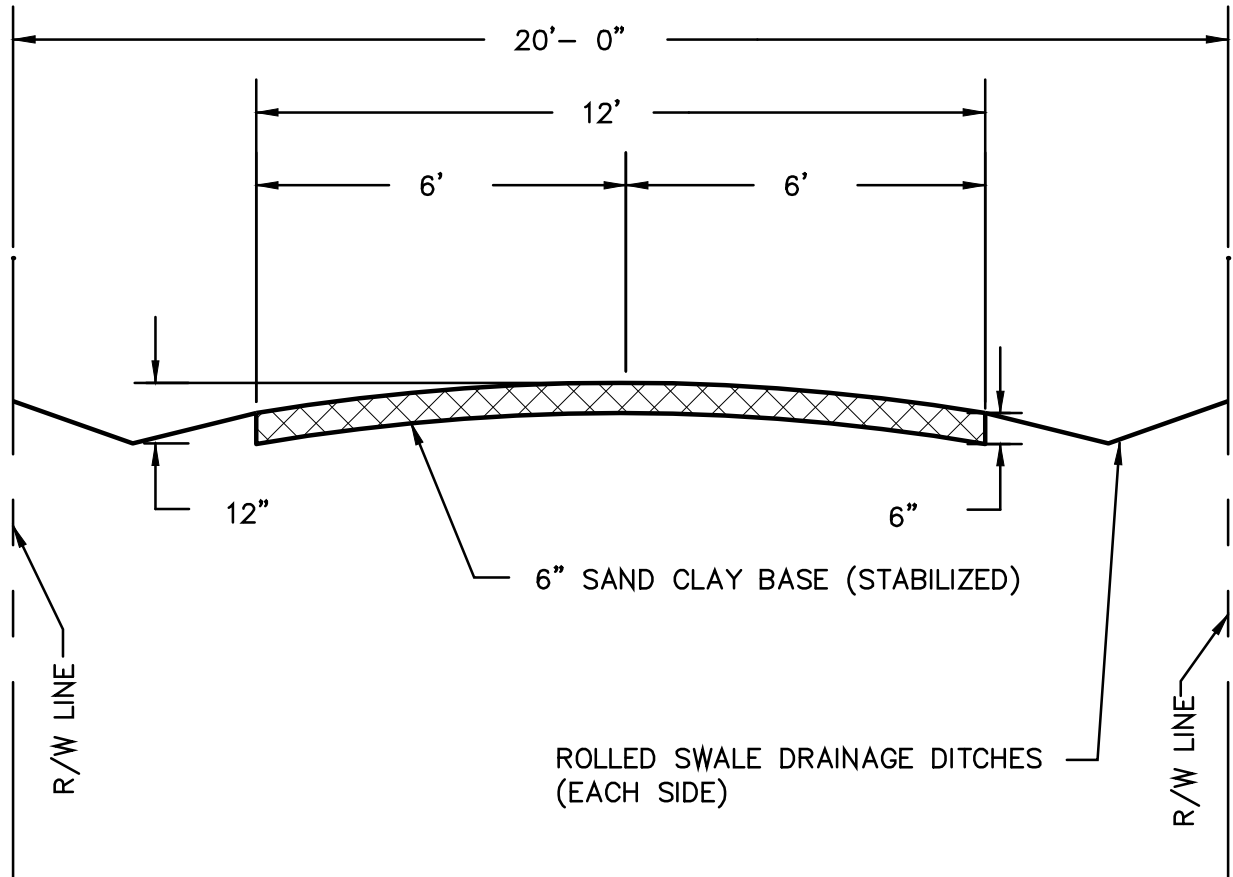
DETAIL NO:

2002A

DATE: 10/27/2008







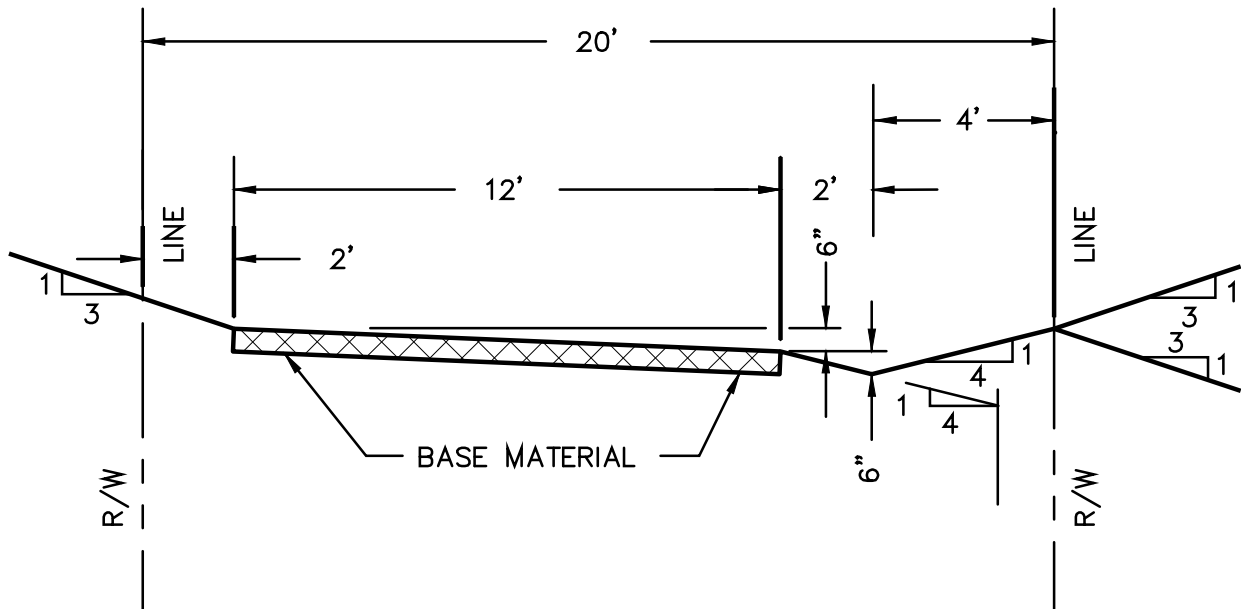
NOTE: MANHOLE RIM ELEVATIONS TO  
BE 6" BELOW FINISHED GRADE.

# TYPICAL UNPAVED ALLEY SECTION

DETAIL NO:

2005

DATE: 09/28/1988



NOTE:

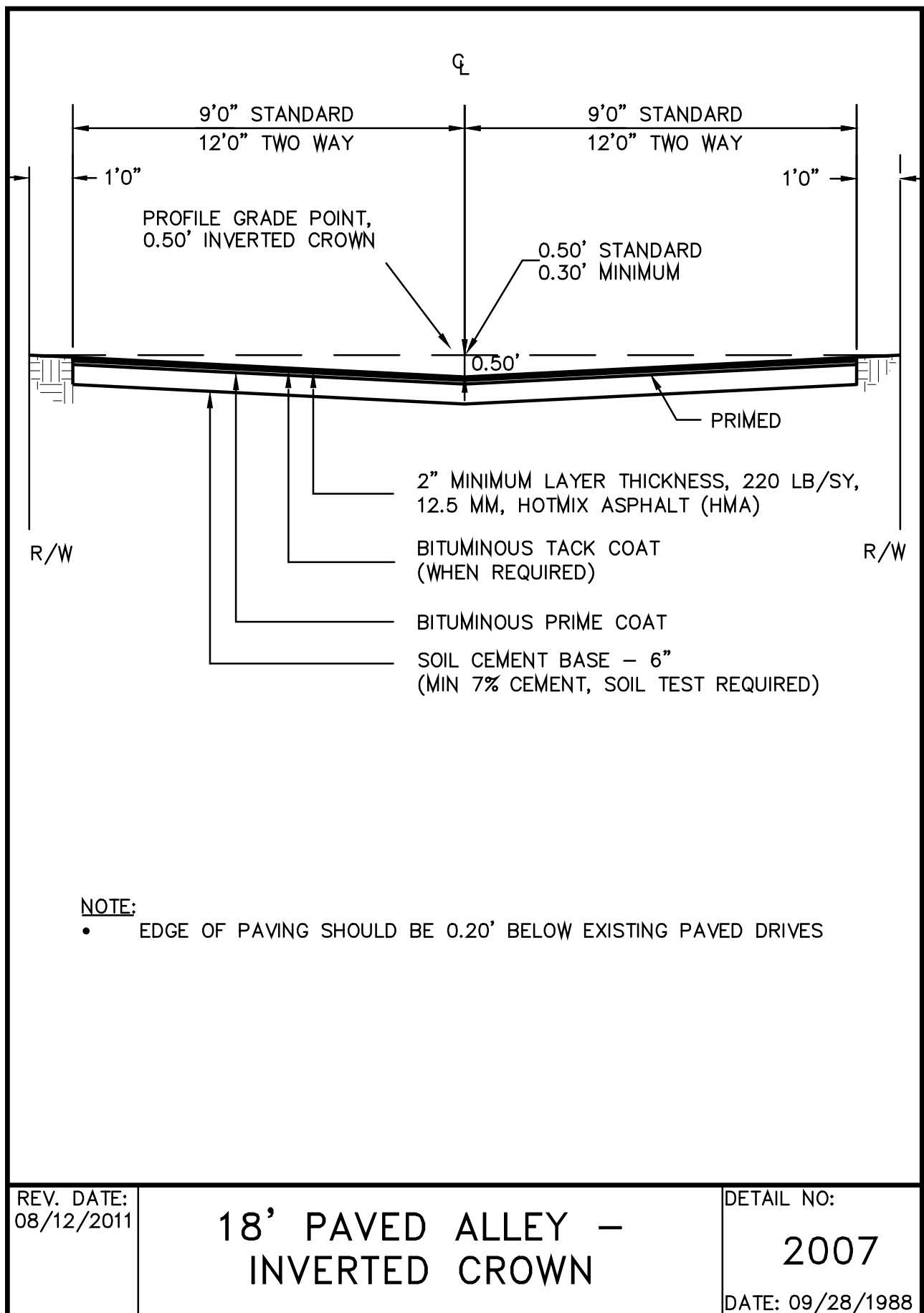
1. SPECIAL APPROVAL REQUIRED MANHOLE.
2. RIM ELEVATIONS TO BE 6" BELOW FINISHED ALLEY GRADE.

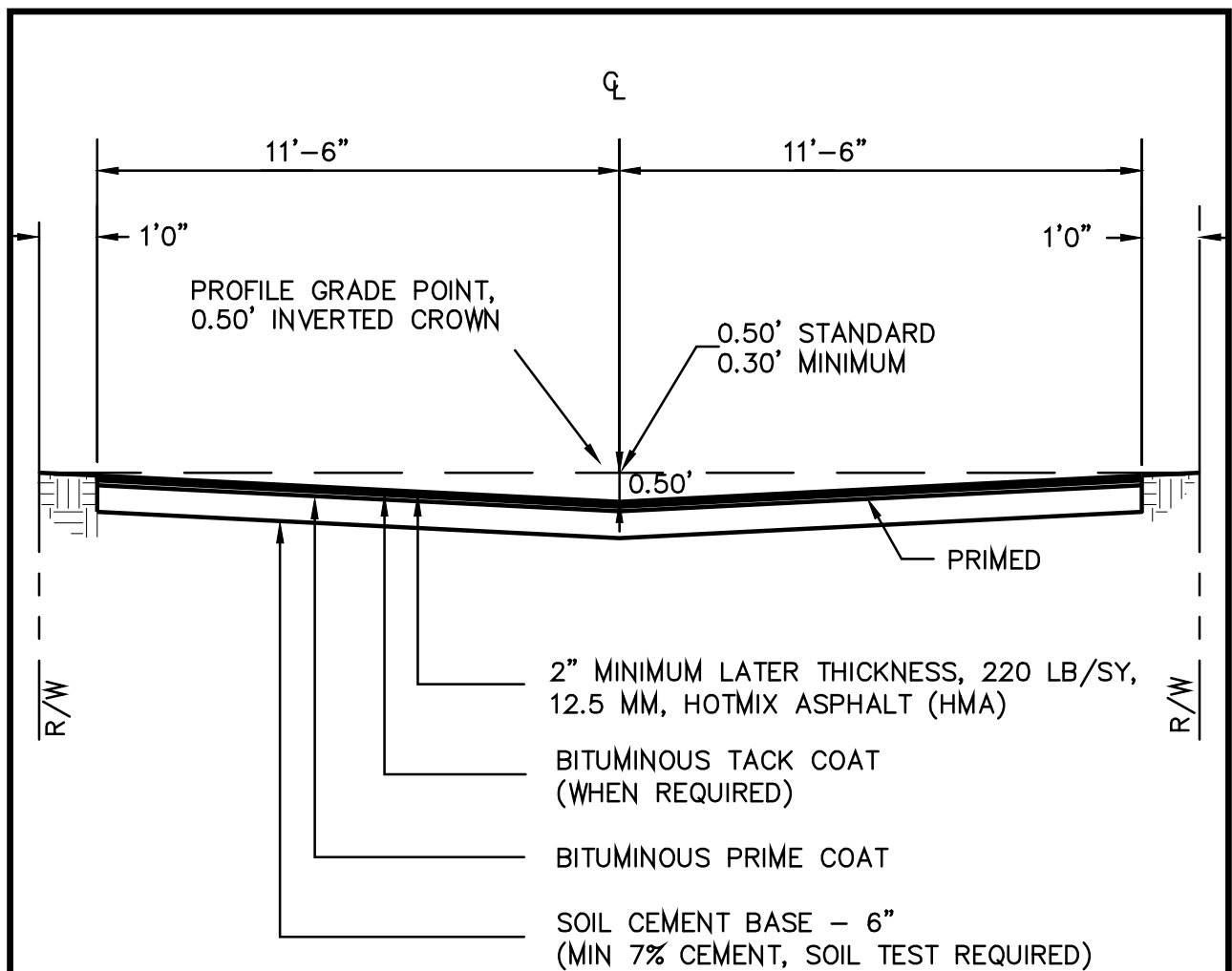
SLOPED UNPAVED  
ALLEY SECTION

DETAIL NO:

2006

DATE: 09/28/1988





NOTE:

- EDGE OF PAVING SHOULD BE 0.20' BELOW EXISTING PAVED DRIVES

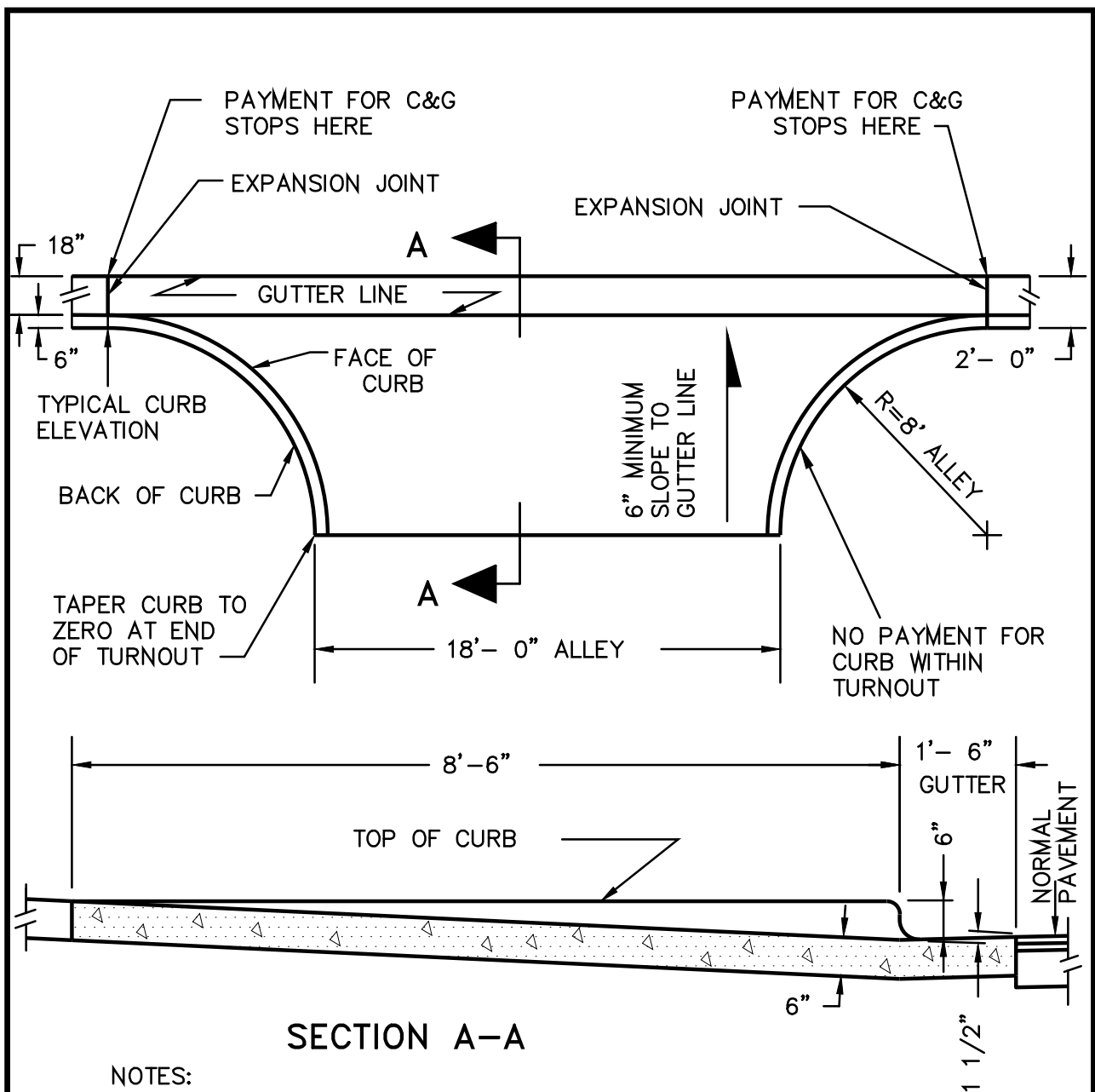
DETAIL NO:  
08/12/2011

# 23' PAVED ALLEY - INVERTED CROWN

DETAIL NO:

2007R

DATE: 09/28/1988



### SECTION A-A

#### NOTES:

1. 3000 PSI CONCRETE.
2. 6" THICK ON CITY RIGHT OF WAY.
3. NO EXPOSED AGGREGATE ON CITY RIGHT OF WAY. (THE CITY OF ALBANY WILL NOT MAKE ANY REPAIRS TO EXPOSED AGGREGATE ON CITY RIGHT OF WAY UNDER ANY CIRCUMSTANCES.)
4. SUB-BASE TO BE APPROVED BEFORE CONCRETE IS PLACED.
5. NUMBERS TO CALL FOR INSPECTION ARE:  
 RESIDENTIAL - ENGINEERING DEPT. 883-6950  
 COMMERCIAL - ENGINEERING DEPT. 883-6950

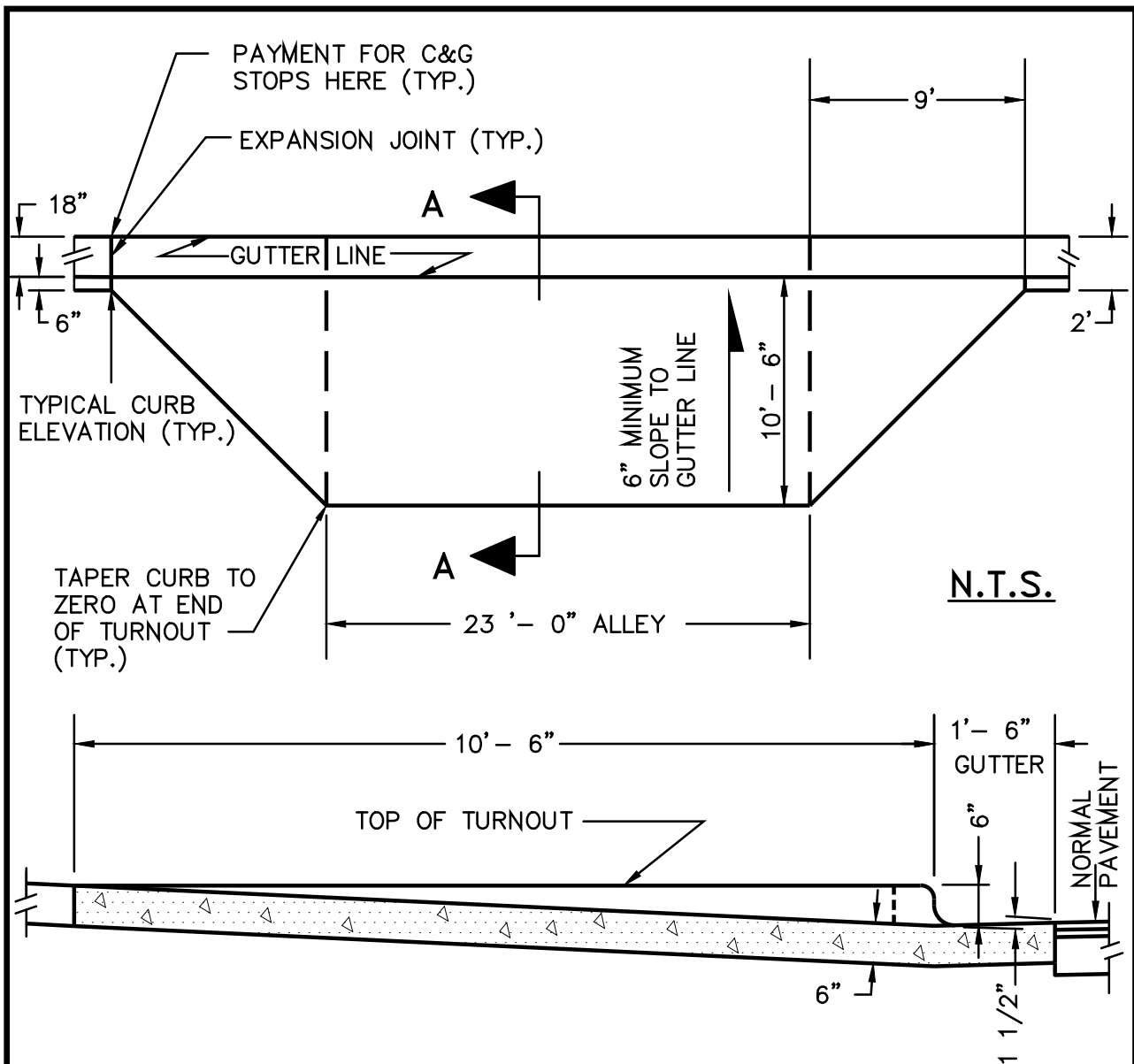
REVISED:  
02/08/2013

## STANDARD ALLEY TURNOUT

DETAIL NO:

2008

DATE: 09/28/1988



NOTES:

1. 3000 PSI CONCRETE.
2. 6" THICK ON CITY RIGHT OF WAY.
3. NO EXPOSED AGGREGATE ON CITY RIGHT OF WAY. (THE CITY OF ALBANY WILL NOT MAKE ANY REPAIRS TO EXPOSED AGGREGATE ON CITY RIGHT OF WAY UNDER ANY CIRCUMSTANCES.)
4. SUB-BASE TO BE APPROVED BEFORE CONCRETE IS PLACED.
5. NUMBERS TO CALL FOR INSPECTION ARE:  
RESIDENTIAL - ENGINEERING DEPT. 883-6955  
COMMERCIAL - ENGINEERING DEPT. 883-6955

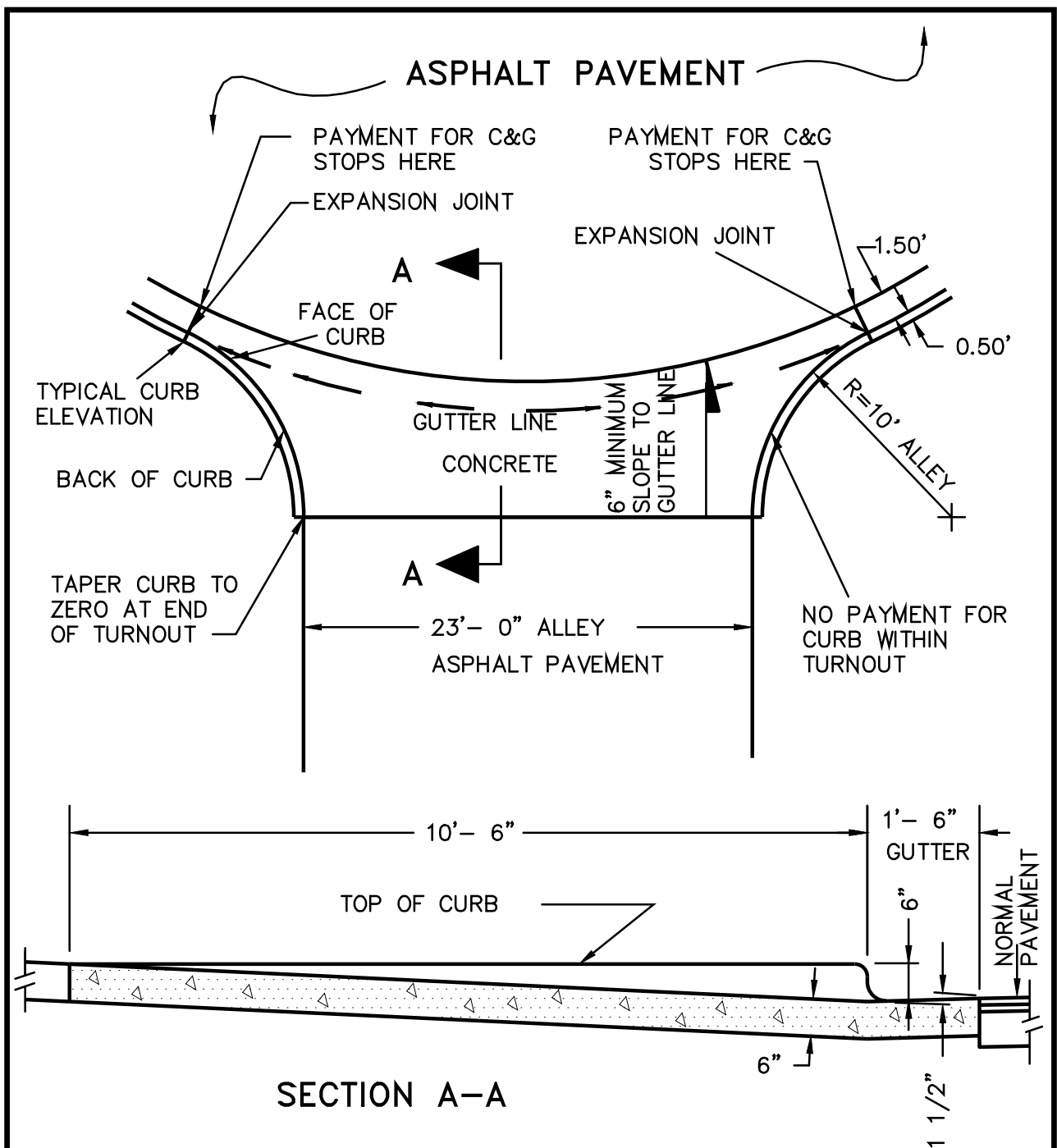
REVISED:  
11/16/2010  
02/08/2013

## FLARED 23' ALLEY TURNOUT

DETAIL NO:

2008A

DATE: 02/17/2003



NOTE:  
ALL CONCRETE IN TURNOUT TO BE 3000 PSI.

DETAIL NO:  
02/08/2013

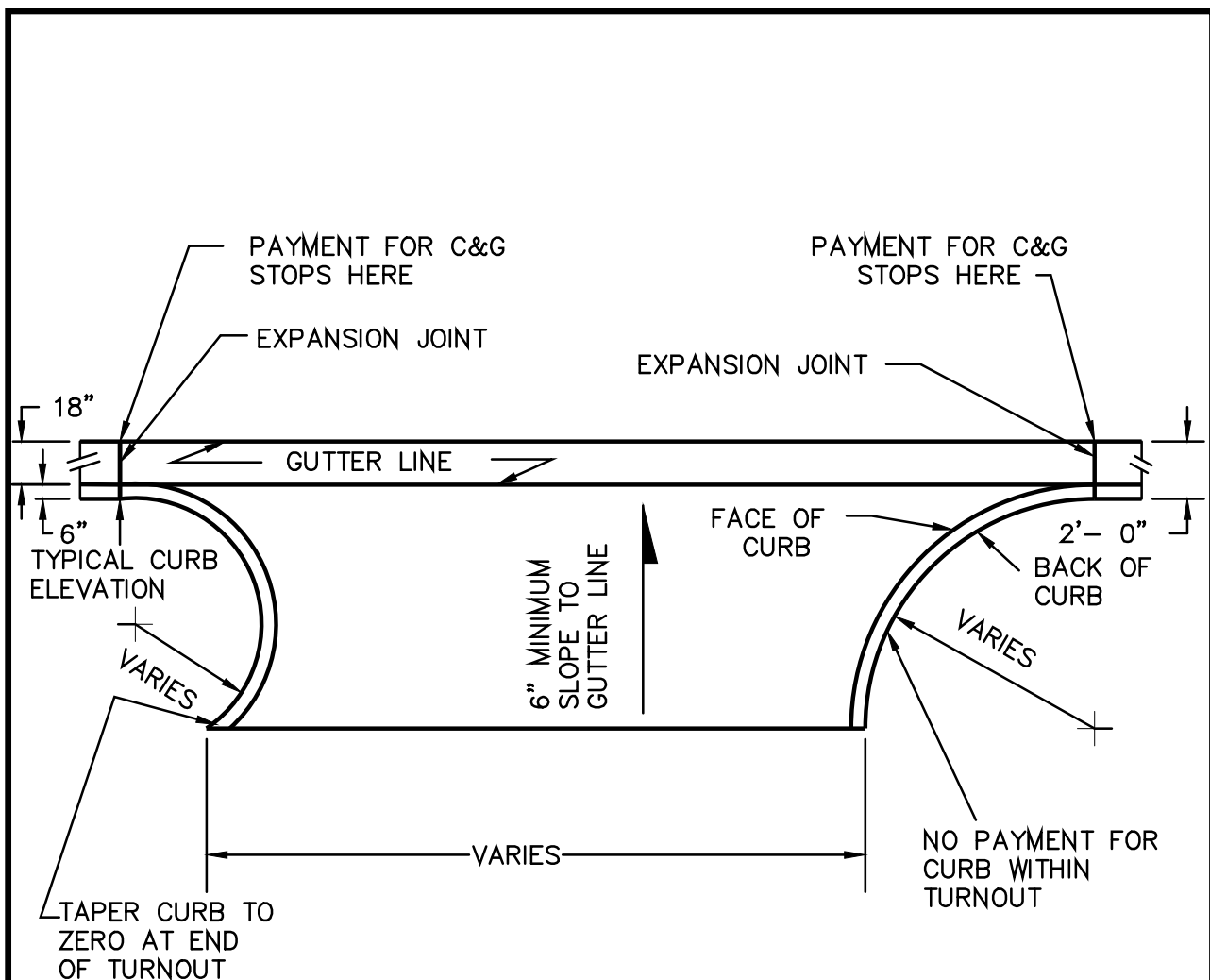
## 23' ALLEY TURNOUT IN CURVE

DETAIL NO:

2008R

DATE: 09/28/1988





NOTES:

1. 3000 PSI CONCRETE.
2. 6" THICK ON CITY RIGHT OF WAY.
3. NO EXPOSED AGGREGATE ON CITY RIGHT OF WAY.  
(THE CITY OF ALBANY WILL NOT MAKE ANY REPAIRS TO EXPOSED AGGREGATE ON CITY RIGHT OF WAY UNDER ANY CIRCUMSTANCES.)
4. SUB-BASE TO BE APPROVED BEFORE CONCRETE IS PLACED.
5. NUMBERS TO CALL FOR INSPECTION ARE:  
RESIDENTIAL - ENGINEERING DEPT. 883-6955  
COMMERCIAL - ENGINEERING DEPT. 883-6955

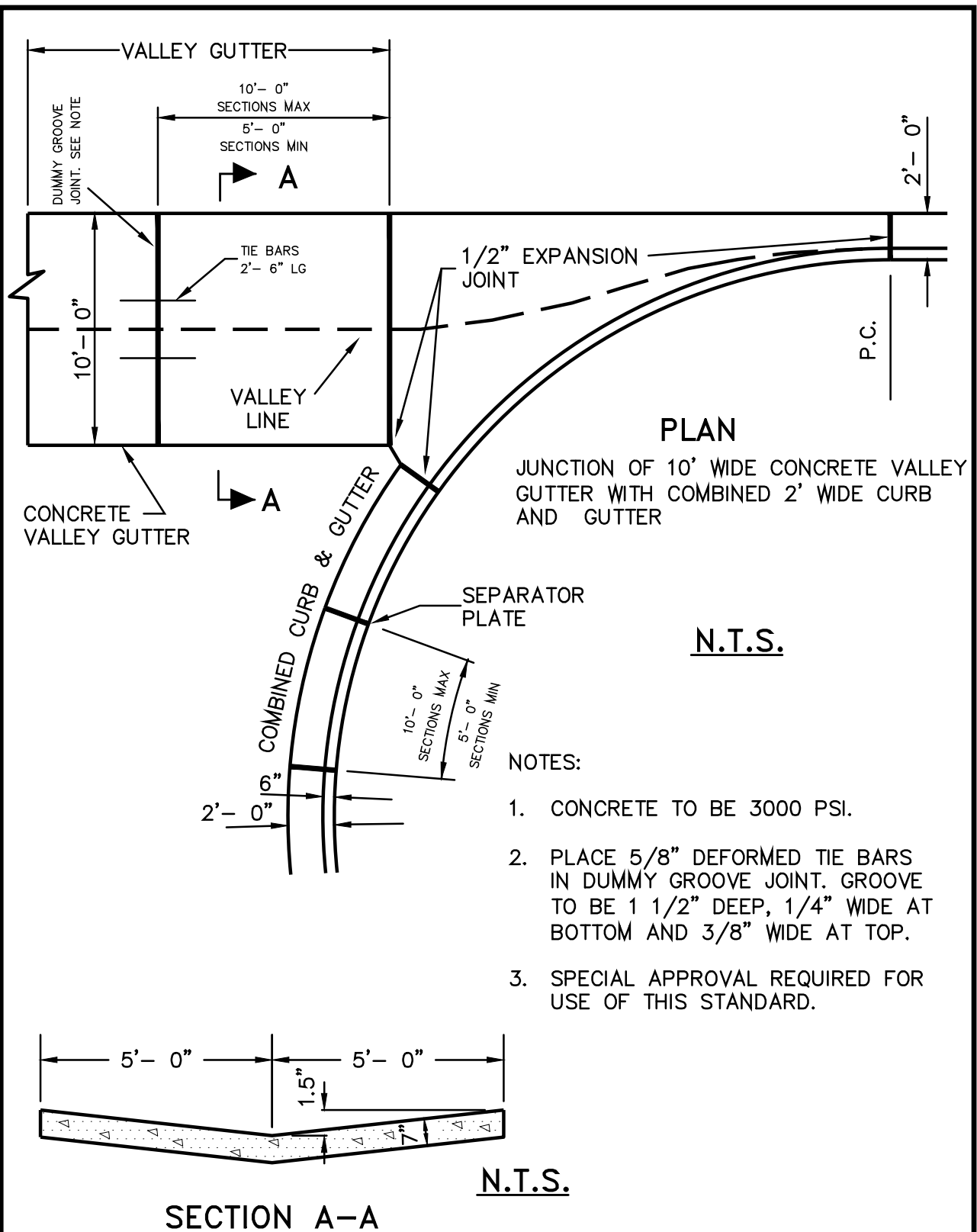
REVISED:  
02/08/2013

# NON-STANDARD ALLEY TURNOUT

DETAIL NO:

2009

DATE: 09/29/1988



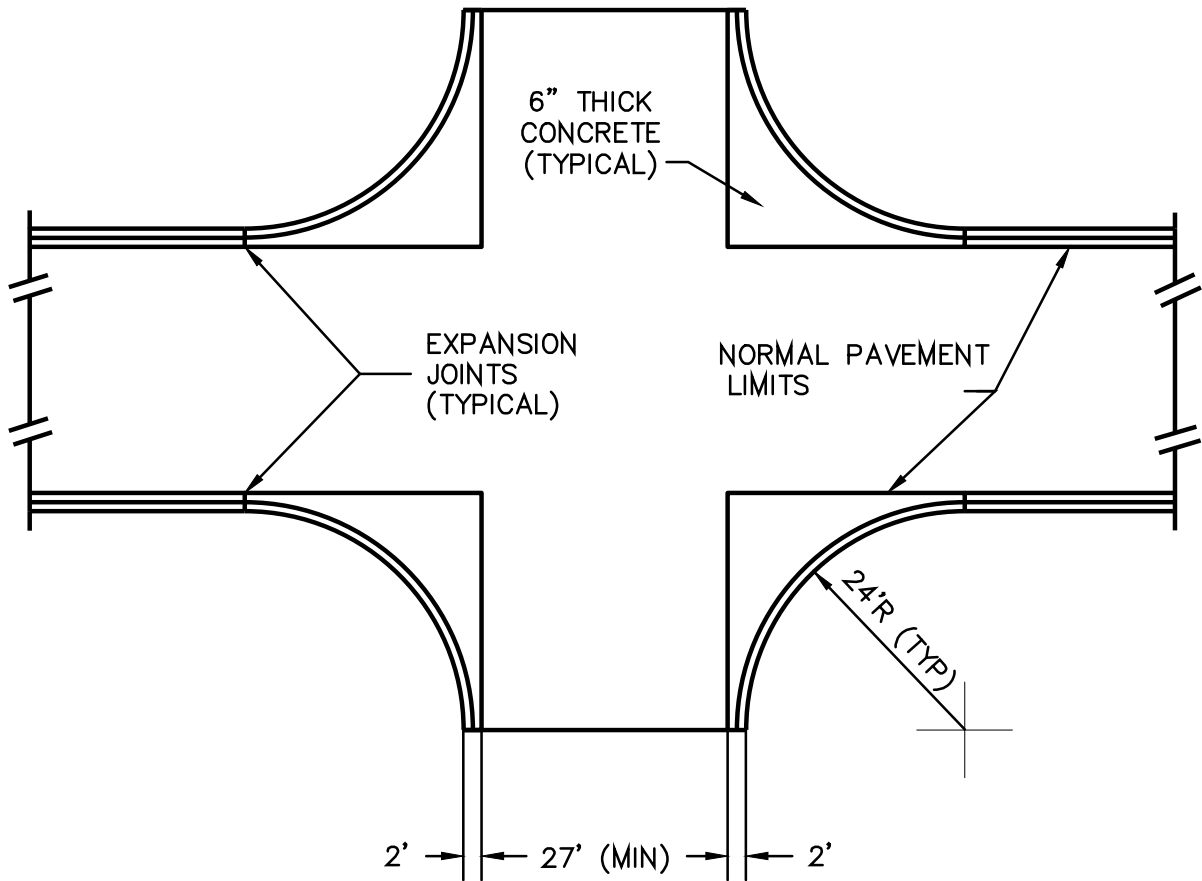
REVISED:  
02/08/2013

# VALLEY GUTTER – STREET INTERSECTION

DETAIL NO:

2010

DATE:10/04/1988

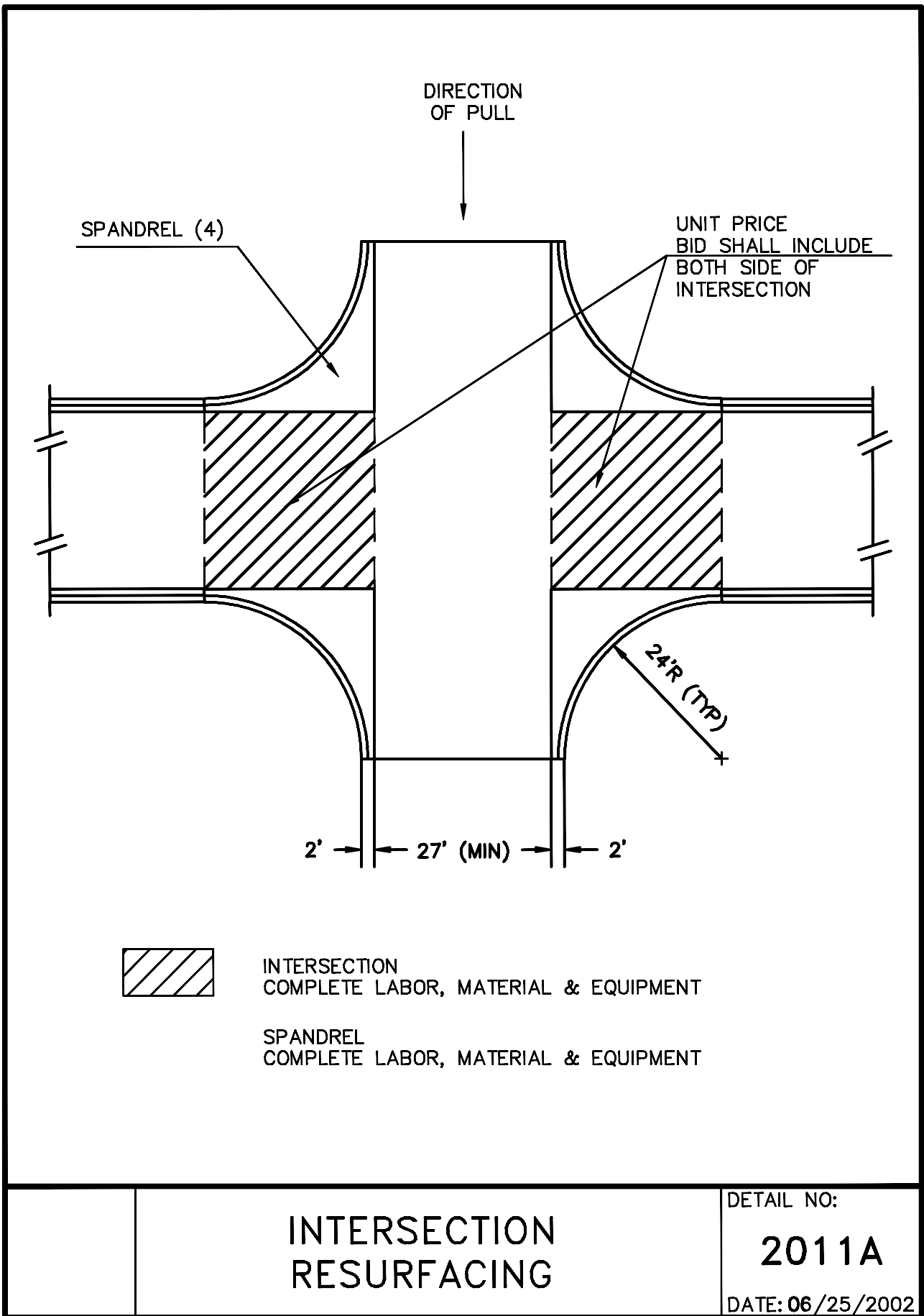


STREET INTERSECTION  
WITH SPANDRELS

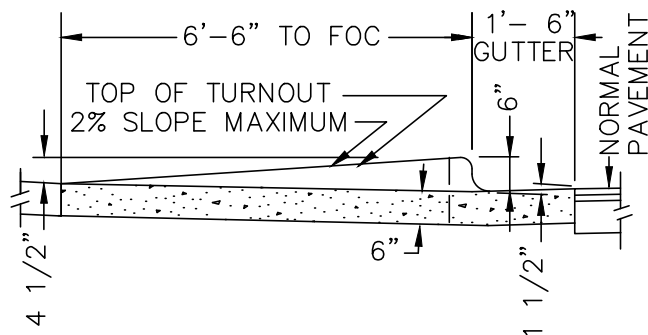
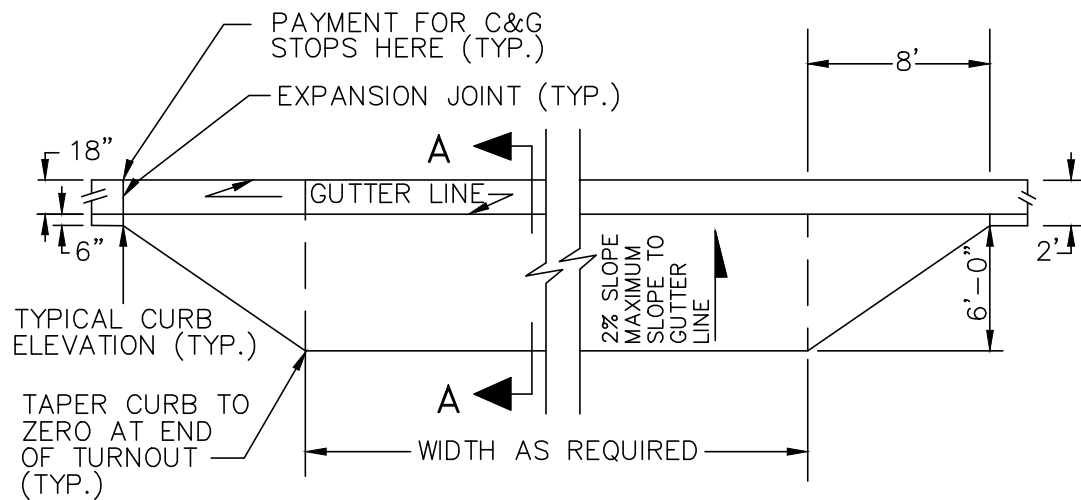
DETAIL NO.

2011

DATE: 09/29/1988







SECTION A-A

NOTES:

1. 3000 PSI CONCRETE.
2. 6" THICK ON CITY RIGHT OF WAY.
3. NO EXPOSED AGGREGATE ON CITY RIGHT OF WAY.  
(THE CITY OF ALBANY WILL NOT MAKE ANY REPAIRS TO  
EXPOSED AGGREGATE ON CITY RIGHT OF WAY UNDER ANY  
CIRCUMSTANCES.)
4. SUB-BASE TO BE APPROVED BEFORE CONCRETE IS PLACED.
5. NUMBERS TO CALL FOR INSPECTION ARE:  
RESIDENTIAL - ENGINEERING DEPT. 883-6955  
COMMERCIAL - ENGINEERING DEPT. 883-6955

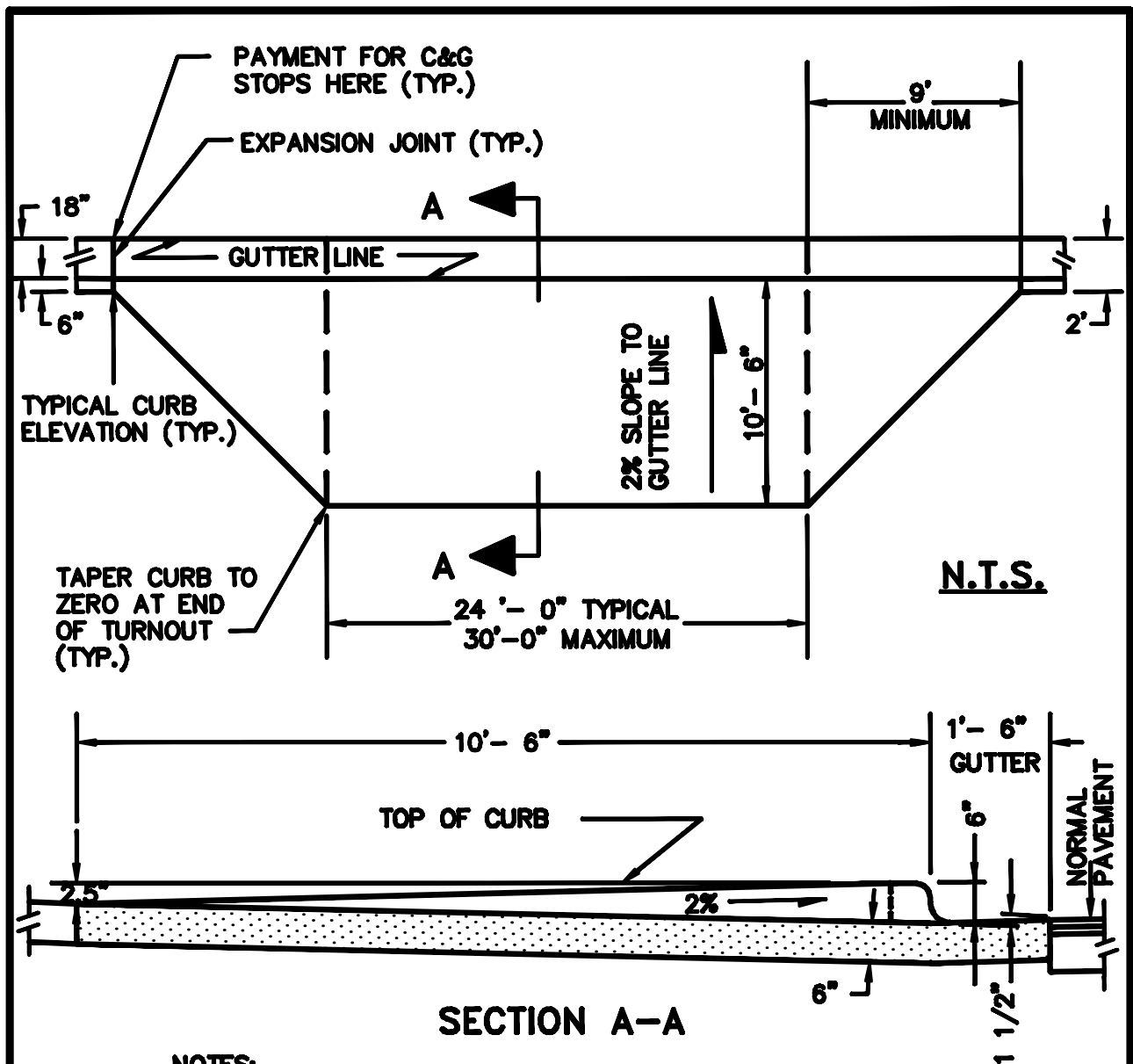
REV. DATE:  
11/19/2010

SPECIAL APPROVAL  
RESIDENTIAL  
DRIVEWAY

DETAIL NO.

2012A

DATE:05/10/2010



**NOTES:**

1. 3000 PSI CONCRETE.
2. 6" THICK ON CITY RIGHT OF WAY.
3. NO EXPOSED AGGREGATE ON CITY RIGHT OF WAY.  
(THE CITY OF ALBANY WILL NOT MAKE ANY REPAIRS  
TO EXPOSED AGGREGATE ON CITY RIGHT OF WAY  
UNDER ANY CIRCUMSTANCES.)
4. SUB-BASE TO BE APPROVED BEFORE CONCRETE IS  
PLACED.
5. NUMBERS TO CALL FOR INSPECTION ARE:  
RESIDENTIAL - ENGINEERING DEPT. 883-6955  
COMMERCIAL - ENGINEERING DEPT. 883-6955
6. PROVIDE HC ACCESS EACH SIDE.

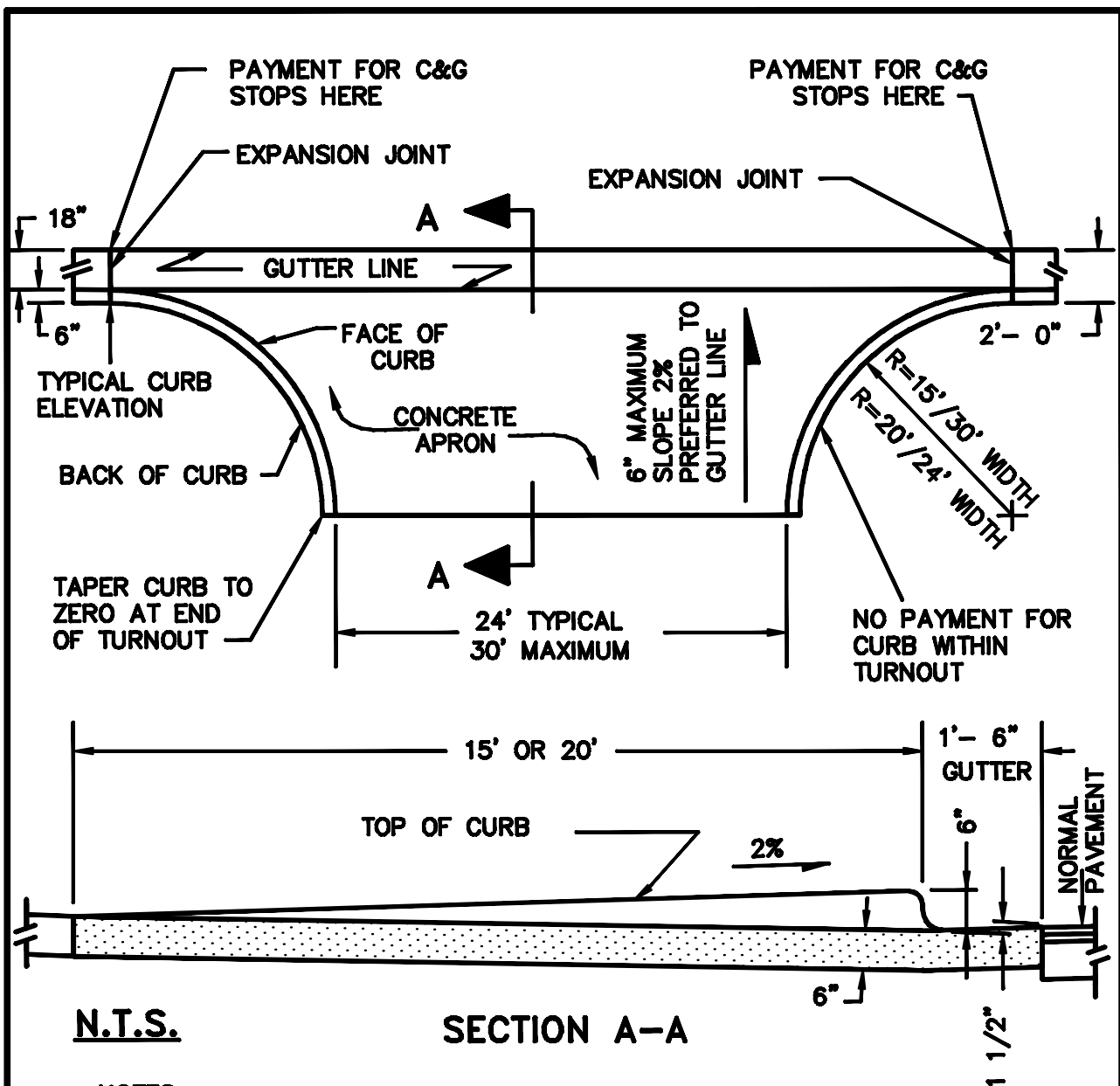
REVISED:  
02/08/2013

# FLARED COMMERCIAL DRIVE TURNOUT

DETAIL NO:

2012B

DATE: 11/16/2010



**NOTES:**

1. 3000 PSI CONCRETE.
2. 6" THICK ON CITY RIGHT OF WAY.
3. NO EXPOSED AGGREGATE ON CITY RIGHT OF WAY. (THE CITY OF ALBANY WILL NOT MAKE ANY REPAIRS TO EXPOSED AGGREGATE ON CITY RIGHT OF WAY UNDER ANY CIRCUMSTANCES.)
4. SUB-BASE TO BE APPROVED BEFORE CONCRETE IS PLACED.
5. NUMBERS TO CALL FOR INSPECTION ARE:  
RESIDENTIAL - ENGINEERING DEPT. 883-6955  
COMMERCIAL - ENGINEERING DEPT. 883-6955
6. PROVIDE HC ACCESS EACH SIDE

REVISED:  
02/08/2013

**COMMERCIAL DRIVE  
TURNOUT**

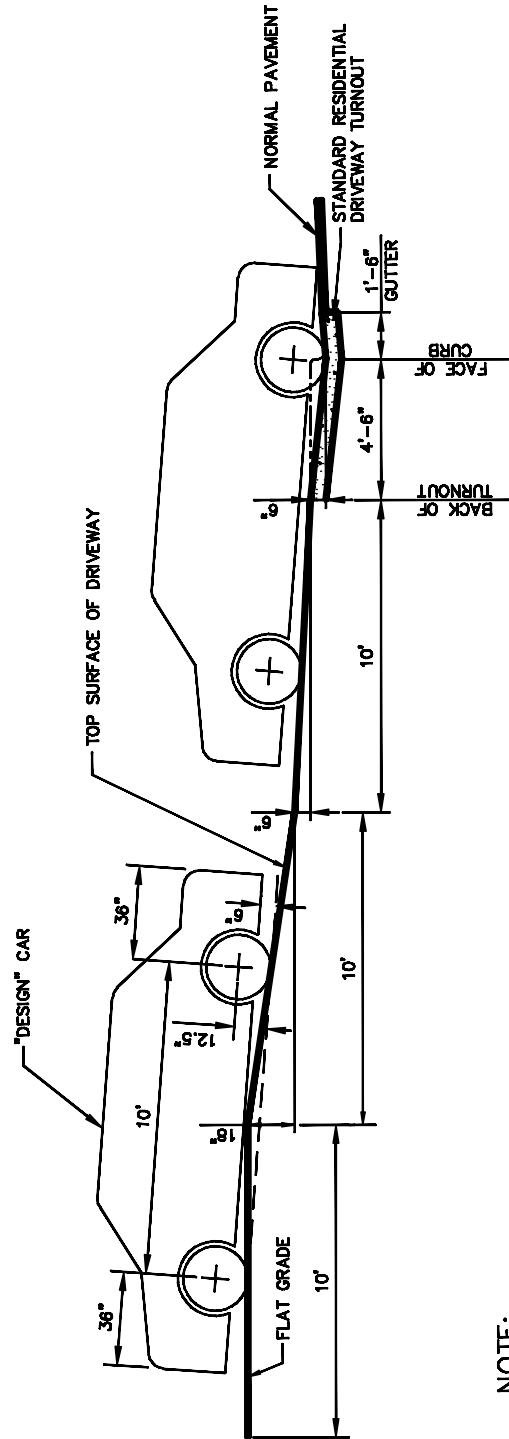
DETAIL NO:

**2012C**

DATE: 11/16/2010



SUGGESTED MAXIMUM GRADE FOR STANDARD  
RESIDENTIAL DRIVEWAY



NOTE:

1. THESE SUGGESTED MAXIMUM GRADES ARE  
BASED ON THE "DESIGN" CAR'S DIMENSIONS

NTS

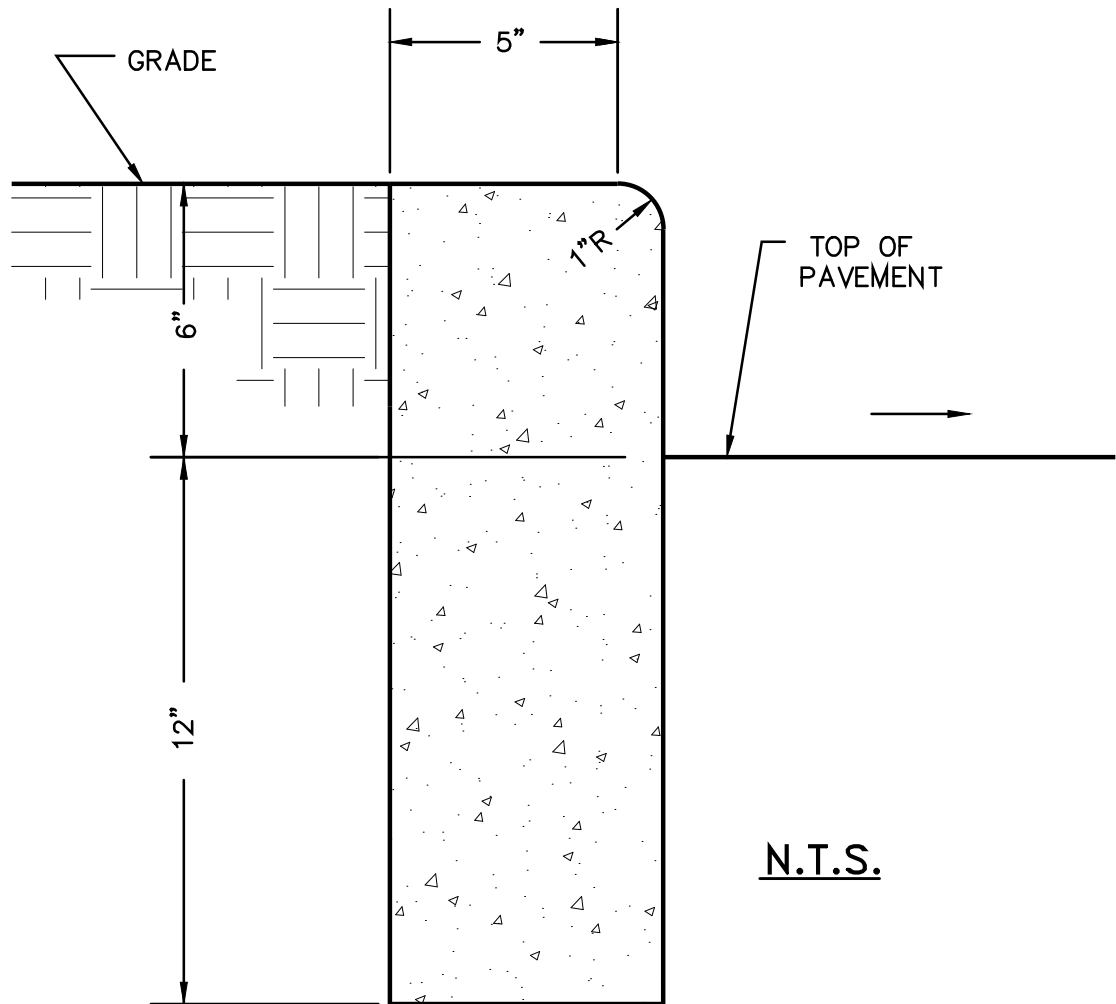
REV. DATE:

SUGGESTED MAXIMUM  
GRADE FOR STANDARD  
RESIDENTIAL DRIVEWAY

DETAIL NO:

2012D

DATE: 09/14/2011



NOTES:

1. SPECIAL APPROVAL IF USED  
ON RIGHT OF WAY
2. 3000 PSI CONCRETE

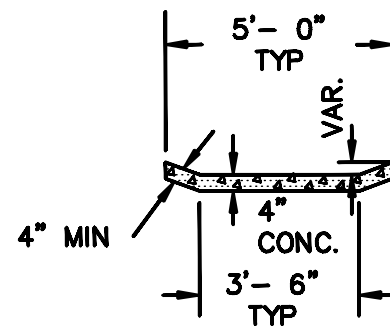
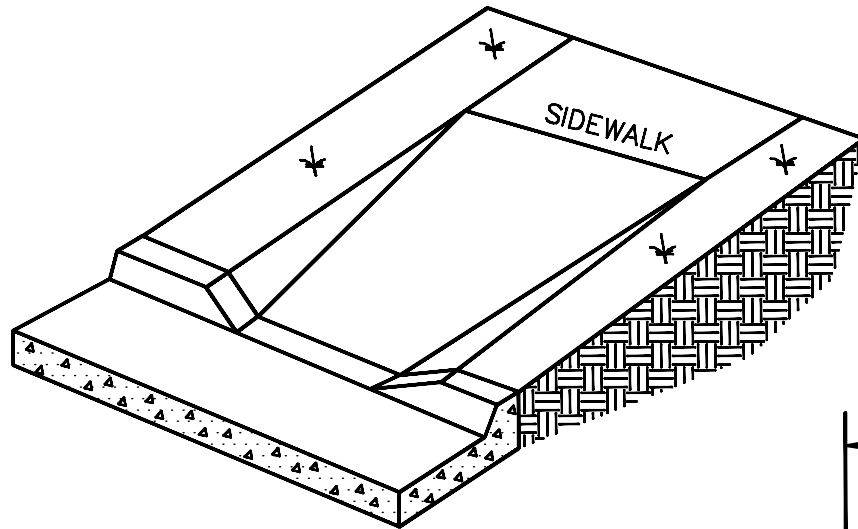
REVISED:  
02/08/2013

# CONCRETE HEADER CURB

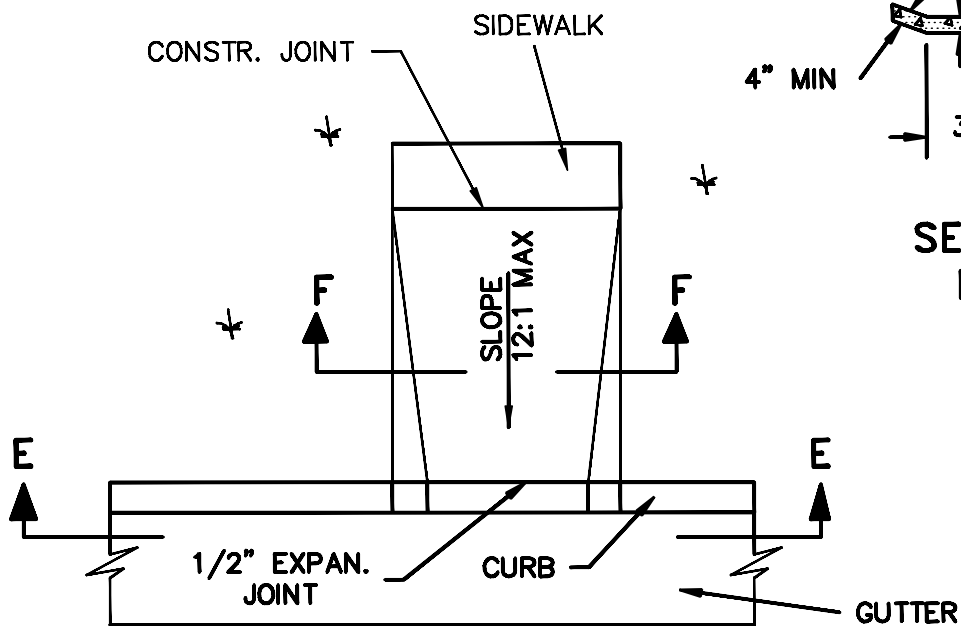
DETAIL NO:

2013

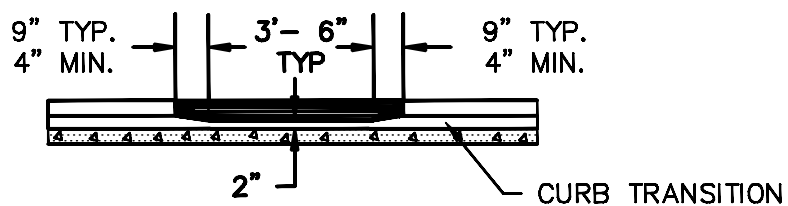
DATE: 09/29/1988



SECTION  
F-F



PLAN VIEW



SECTION  
E-E

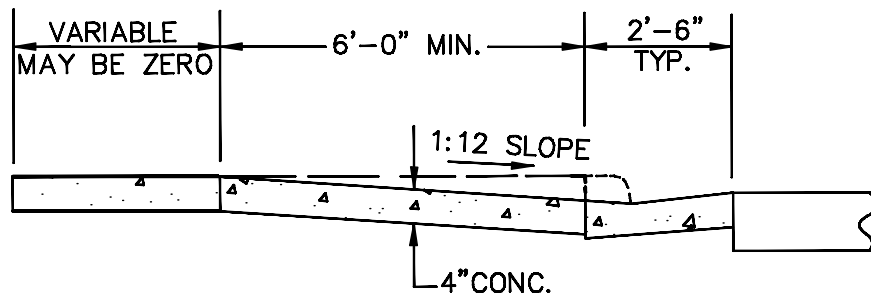
CURB CUT RAMP -  
TYPE A

DETAIL NO:

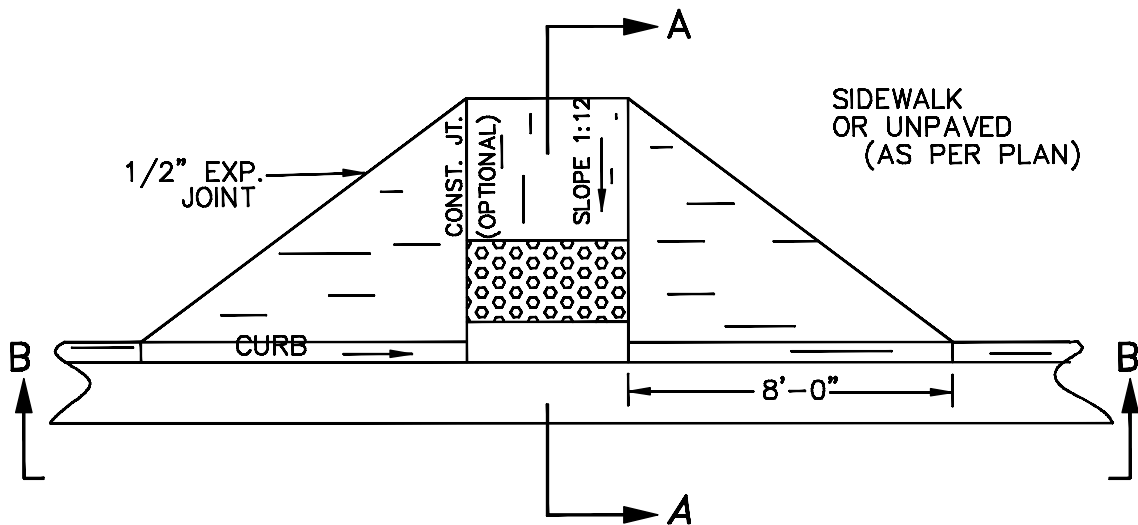
2014

DATE: 03/10/1994

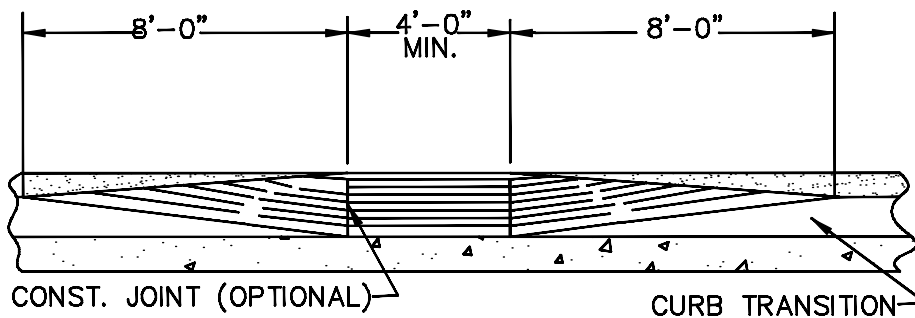
# **SIDEWALK EXTENDS TO BACK OF CURB** **NO SCALE**



**SECTION A-A**



**PLAN VIEW**



**SECTION B-B**

REV. DATE:  
09/29/2003  
07/21/2010

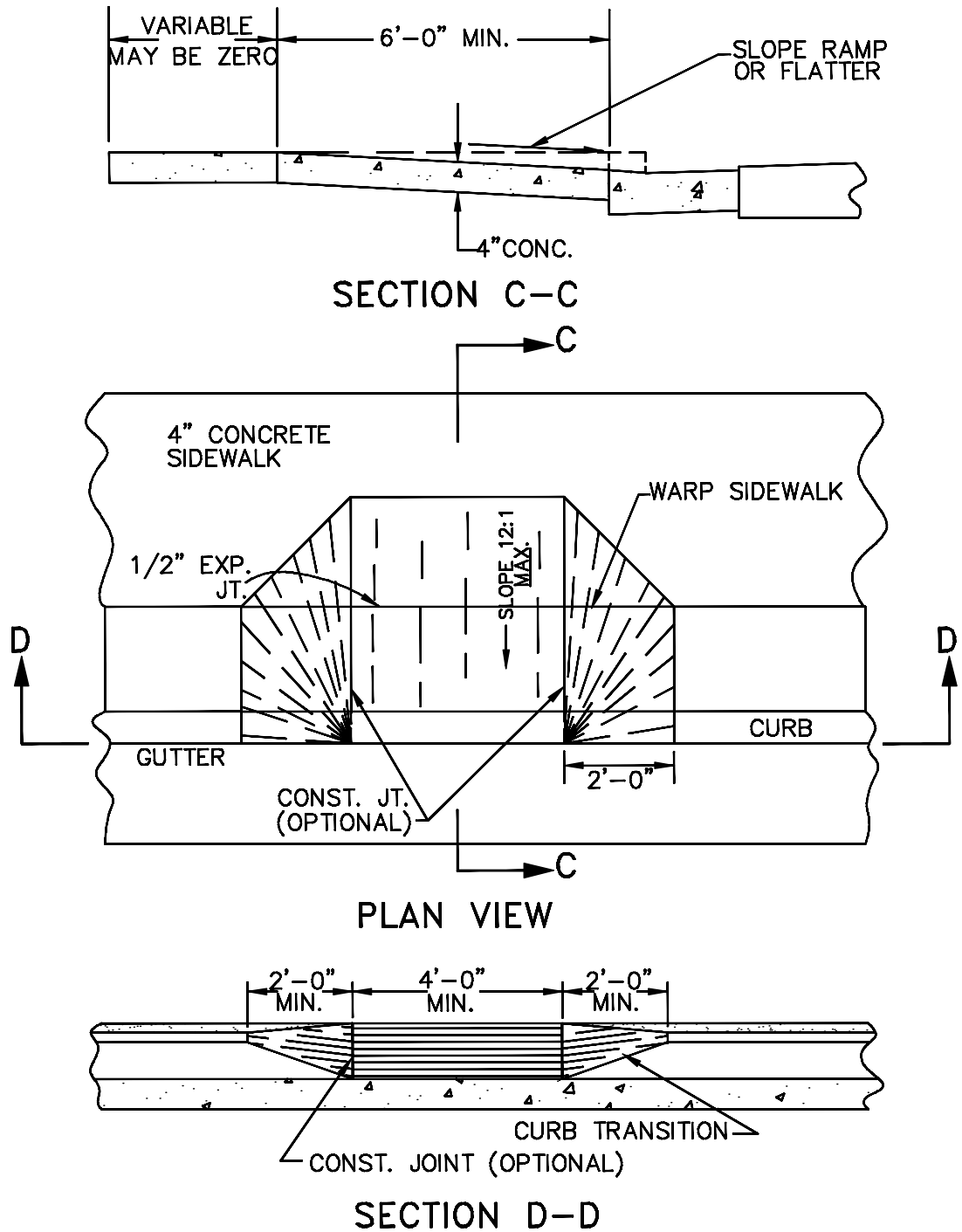
**HANDICAP RAMP  
TYPE A**

DETAIL NO:

**2015A**

DATE: 06/08/1990

# UNPAVED AREA BETWEEN CONCRETE SIDEWALK AND CURB NO SCALE



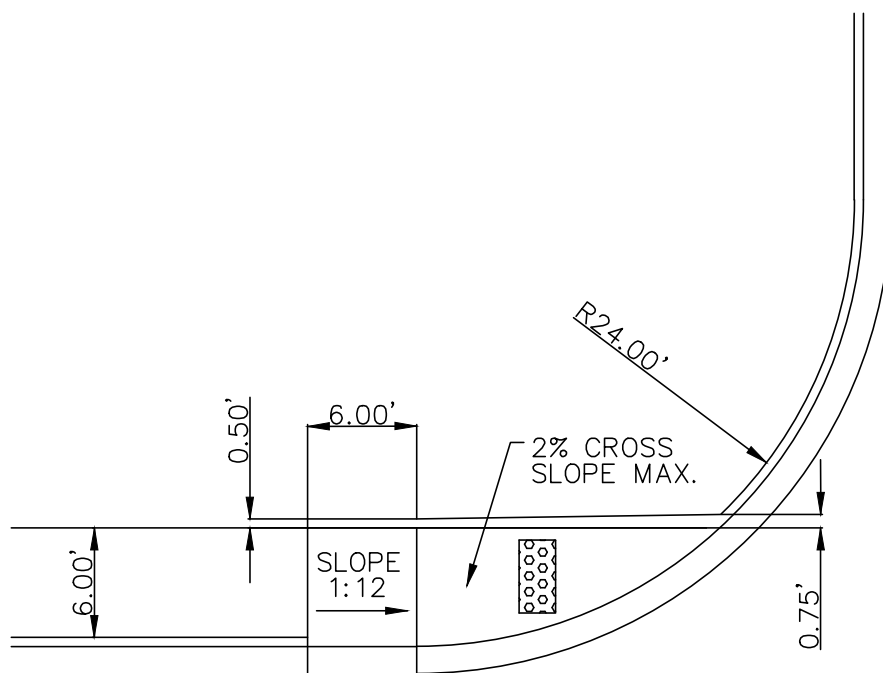
REV. DATE:  
02/09/2004

HANDICAP RAMP  
TYPE B

DETAIL NO:

2015B

DATE: 06/11/1990



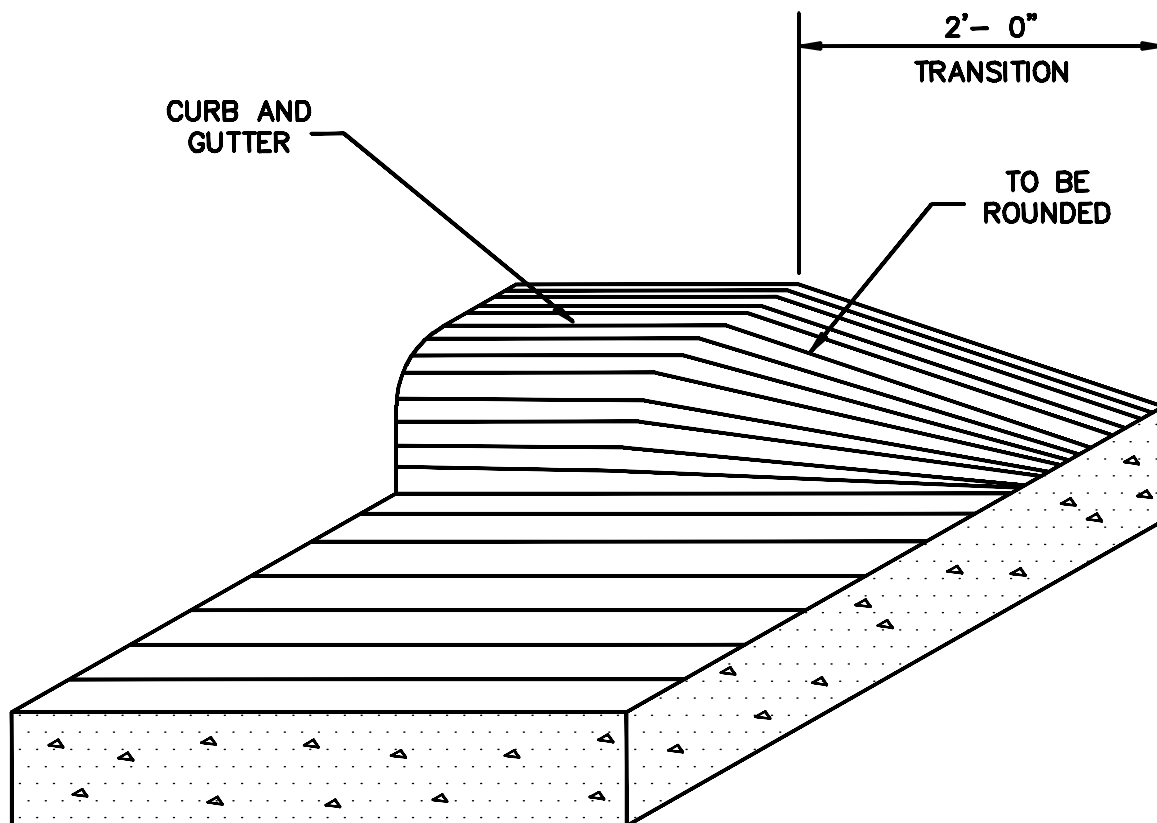
REV. DATE:

HANDICAP RAMP  
TYPE C

DETAIL NO:

2015C

DATE: 08/21/2013



NOTE:  
FEATHERING TYPICAL EACH SIDE  
EACH CONCRETE RAMP

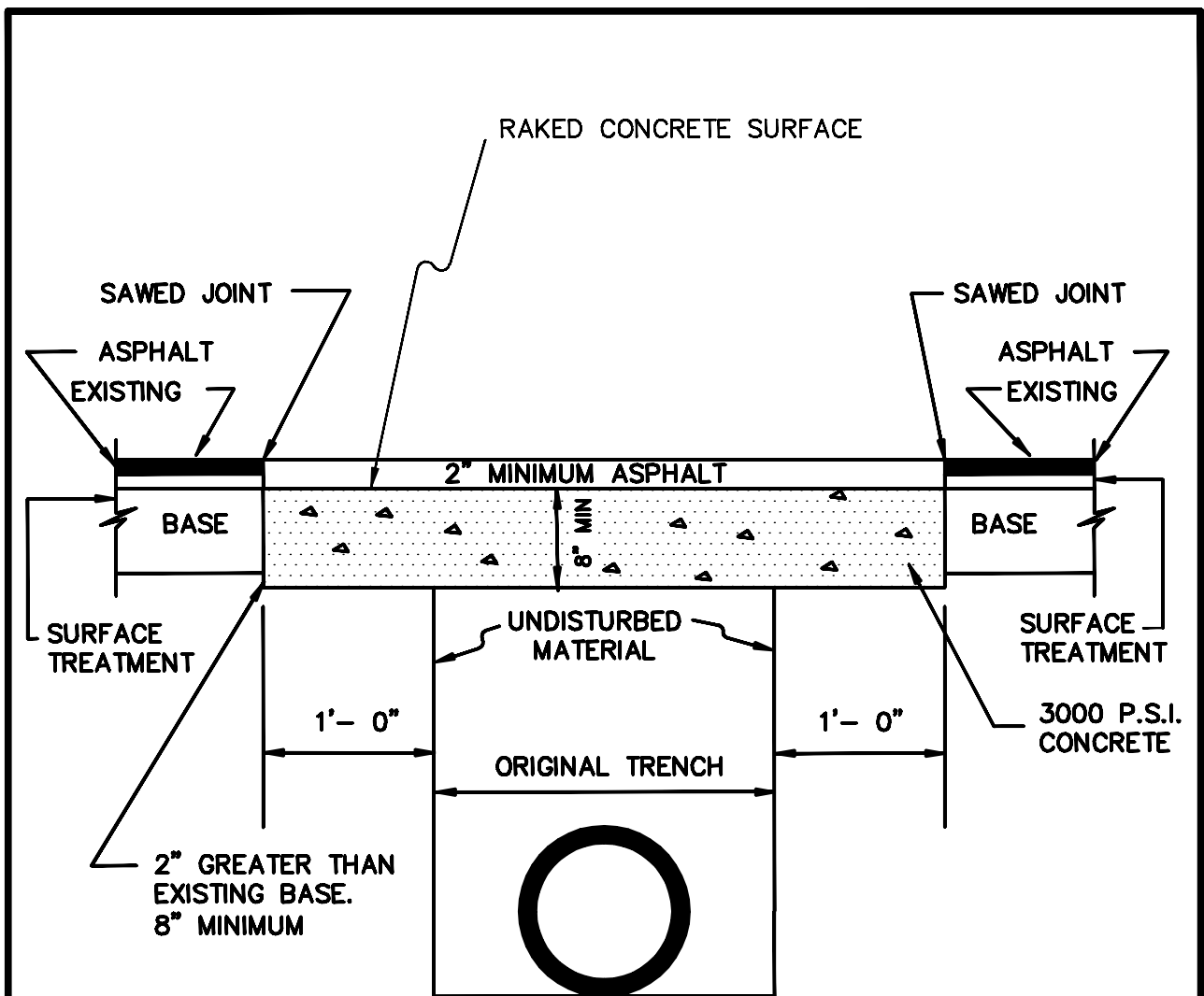
REV. DATE:

FEATHERED CURB &  
GUTTER

DETAIL NO:

2016

DATE: 09/29/1988



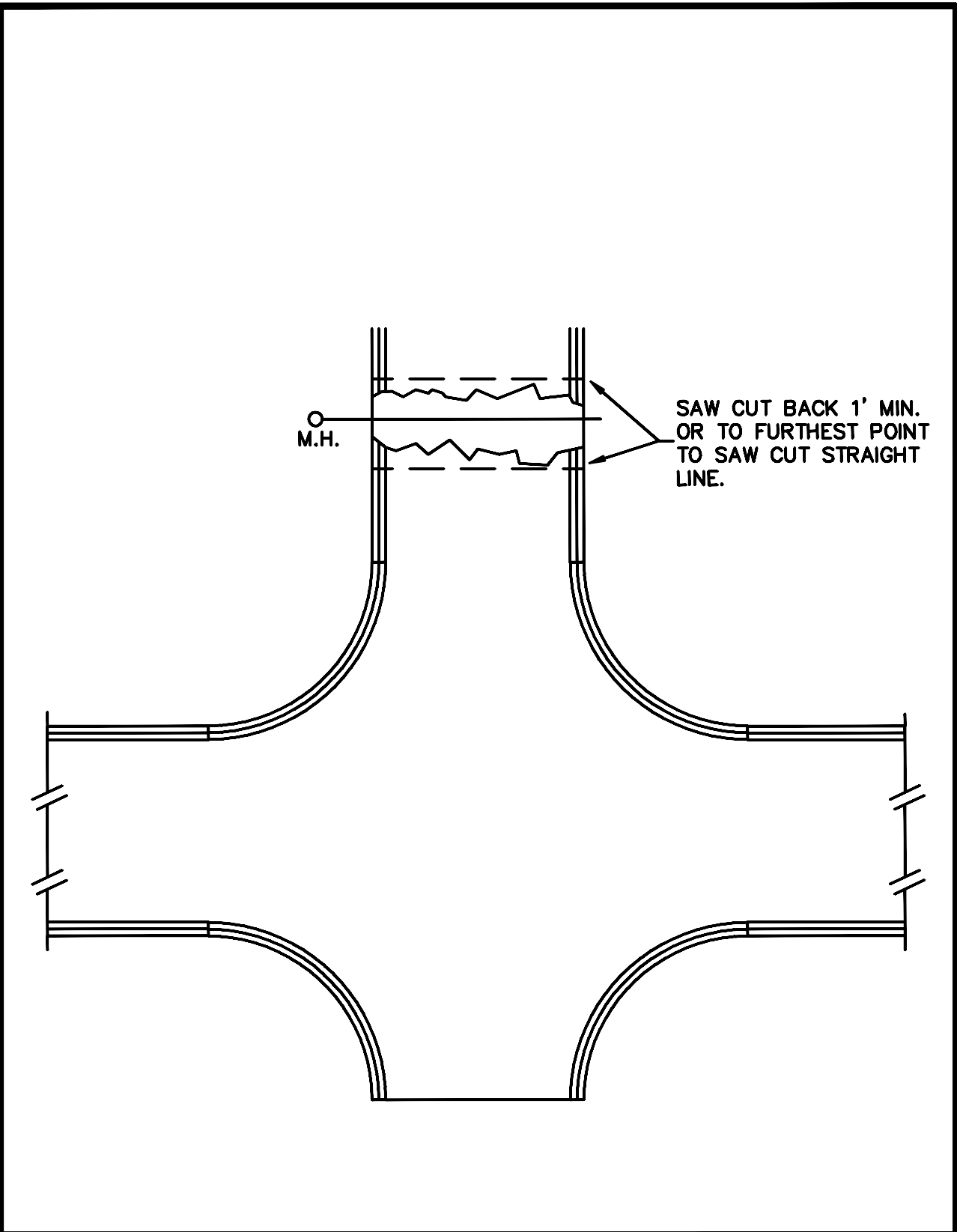
# STANDARD STREET CUT & REPLACEMENT

DETAIL NO:

2017

DATE: 09/29/1988





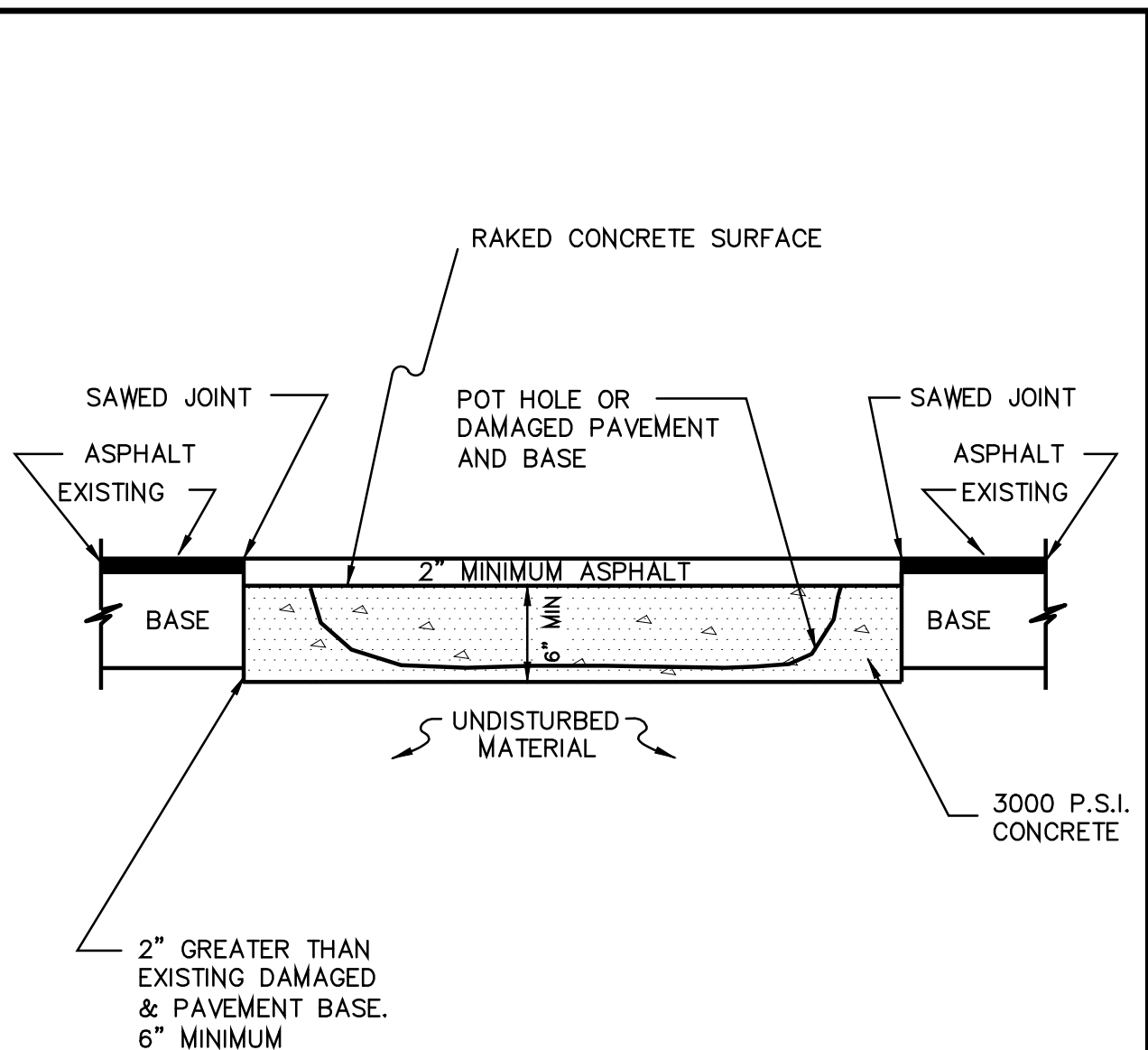
REV. DATE:

STANDARD STREET CUT  
& REPLACEMENT

DETAIL NO:

2017A

DATE: 10/03/1988



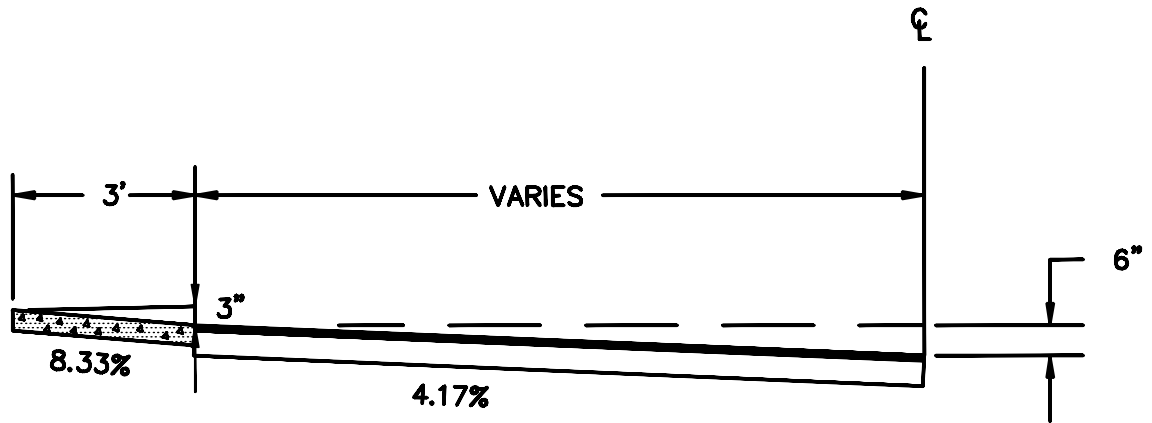
NOTE: REMOVE DAMAGED PAVING AND BASE 8" BELOW ROADWAY SURFACE, SAWCUT VERTICAL SIDES.

STANDARD STREET  
REPAIR

2017B

DATE: 03/19/2013

NOTE: PURPOSE OF 3" DROP IS TO  
ALLOW ALLEY RESURFACING WITHOUT  
PONDING



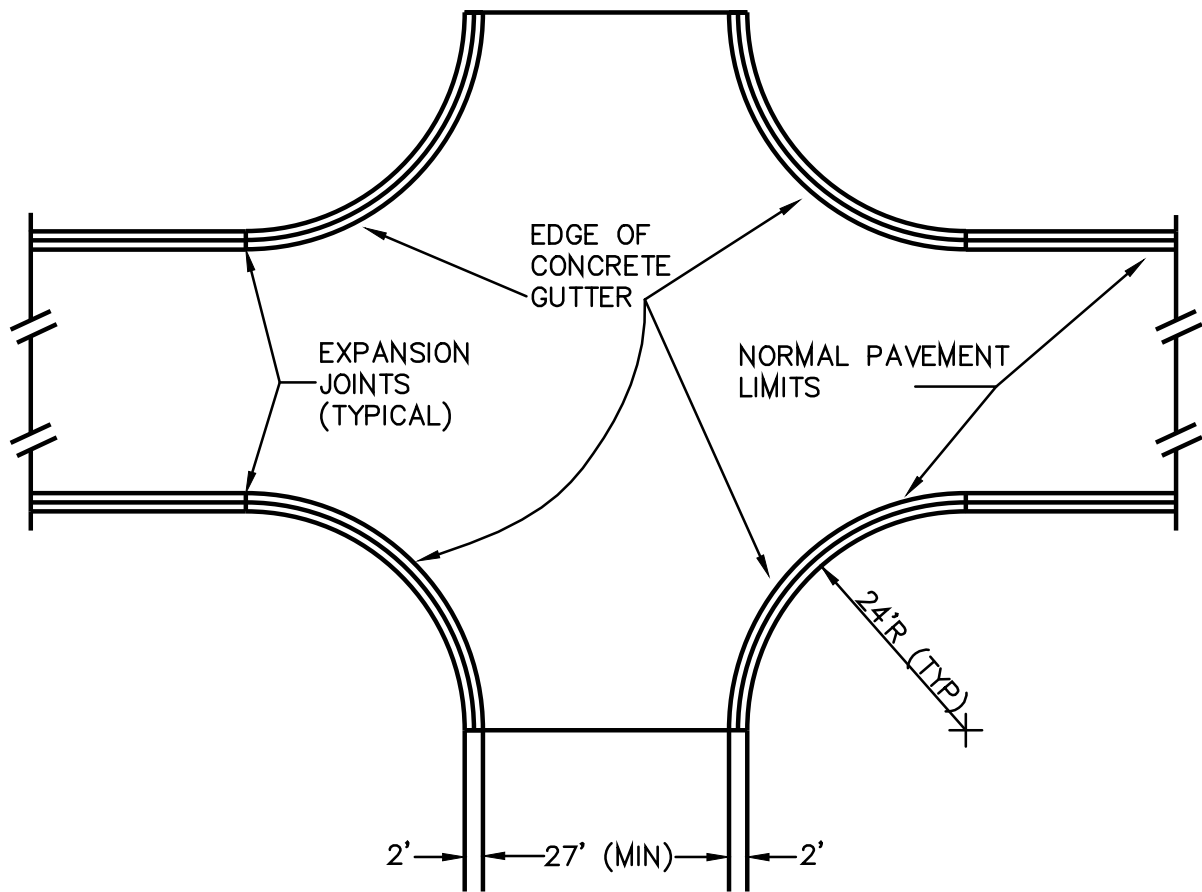
REV. DATE:

STANDARD ALLEY SECTION  
WITH PARKING PADS

DETAIL NO:

2018

DATE: 09/29/1988



NOTE: PAYMENT WILL BE  
MEASURED ALONG BACK OF  
CURB AT UNIT PRICE

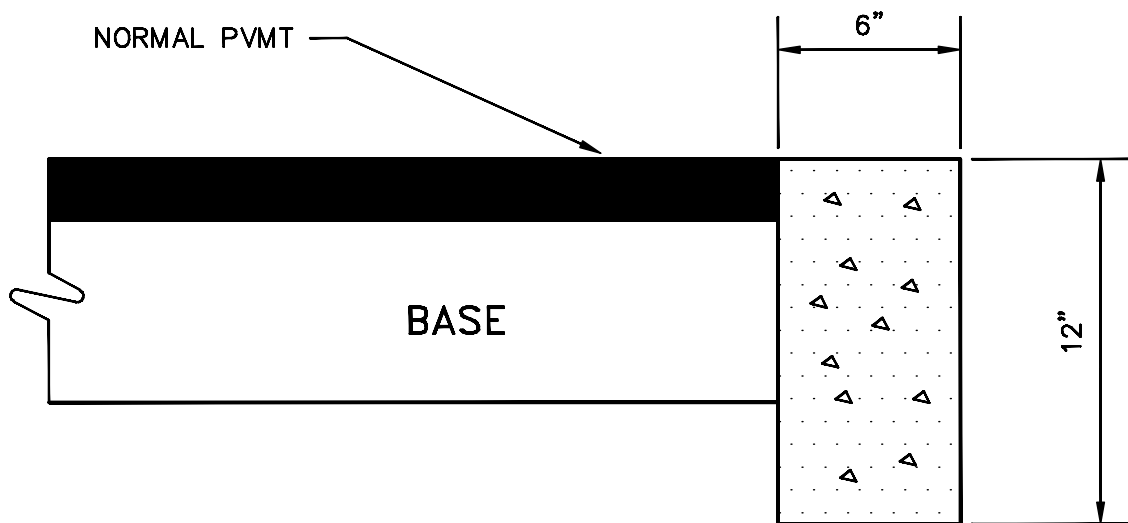
REV. DATE:

# STANDARD STREET INTERSECTION WITHOUT SPANDREL

DETAIL NO:

2019

DATE: 09/28/1988



NOTE: USE AT TEMPORARY  
END OF PAVING

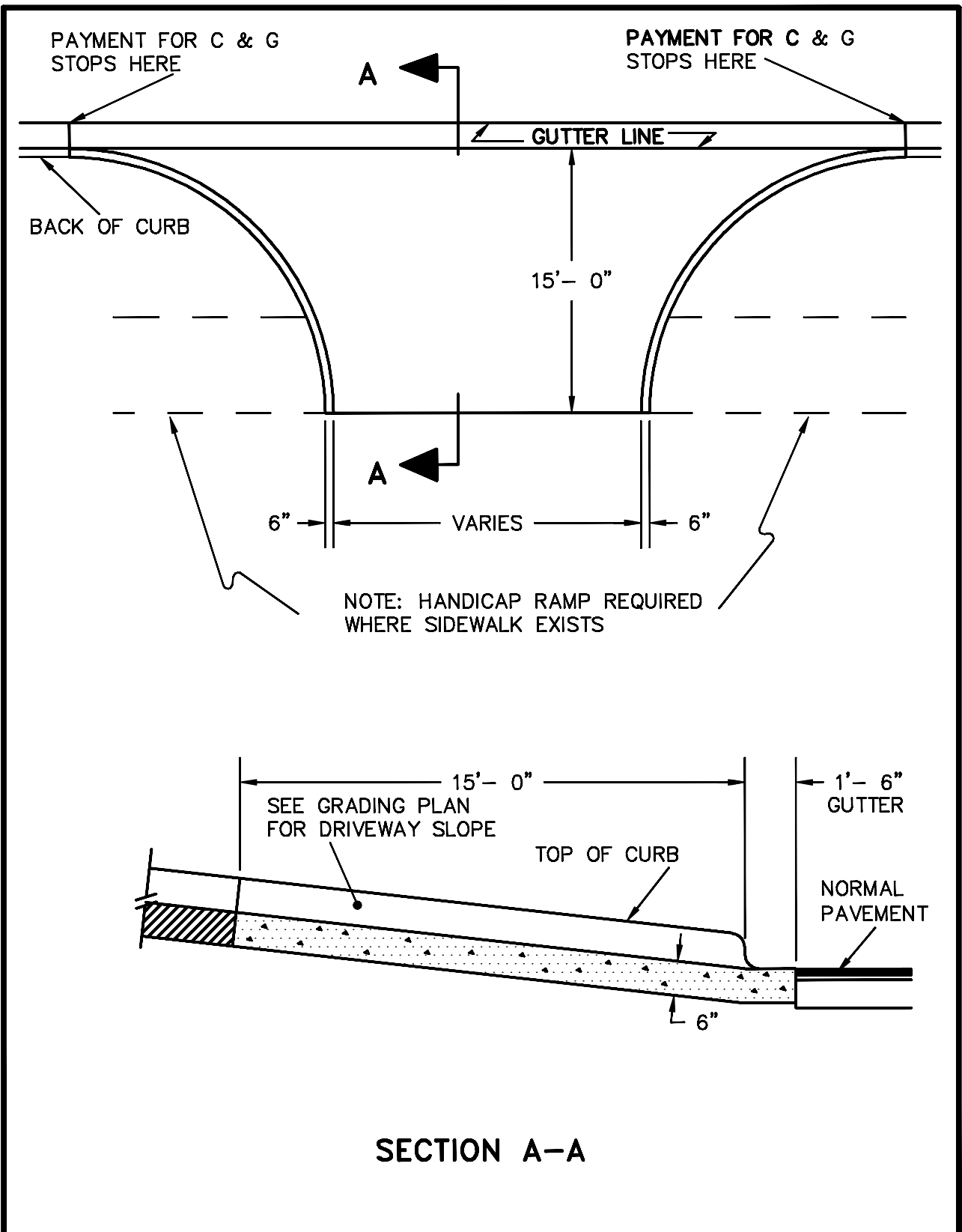
REV. DATE:

FLUSH HEADER CURB

DETAIL NO:

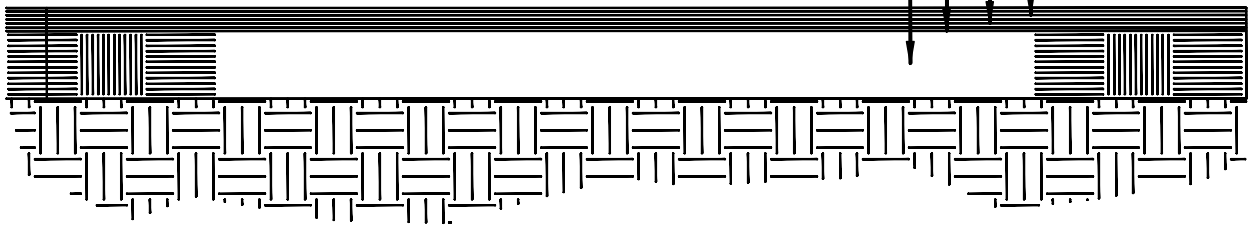
2020

DATE: 09/29/1988



|             |                          |   |
|-------------|--------------------------|---|
| REV. DATED: | NON-STANDARD<br>DRIVEWAY | DETAIL NO:<br><b>2021</b><br>DATE: 09/29/1988 |
|-------------|--------------------------|---|

- 2" MINIMUM LAYER THICKNESS, 220 LB/SY, 12.5MM, HOT MIX ASPHALTIC (HMA) SURFACE COURSE GA. D.O.T. SEC. 400
- BITUMINOUS TACK COAT GA. D.O.T. SEC. 413
- BITUMINOUS PRIME COAT GA. D.O.T. SEC. 412
- 6" SOIL CEMENT BASE MIXED IN PLACE PORTLAND CEMENT CONTENT = 7% GA. D.O.T. SEC. 301  
USE 8" SOIL CEMENT BASE FOR HEAVY-DUTY PAVEMENT



## TYPICAL PAVEMENT SECTION

N.T.S.

NOTE: THIS DETAIL TO BE USED WHEN SINGLE BITUMINOUS SURFACE TREATMENT (BST) OMITTED

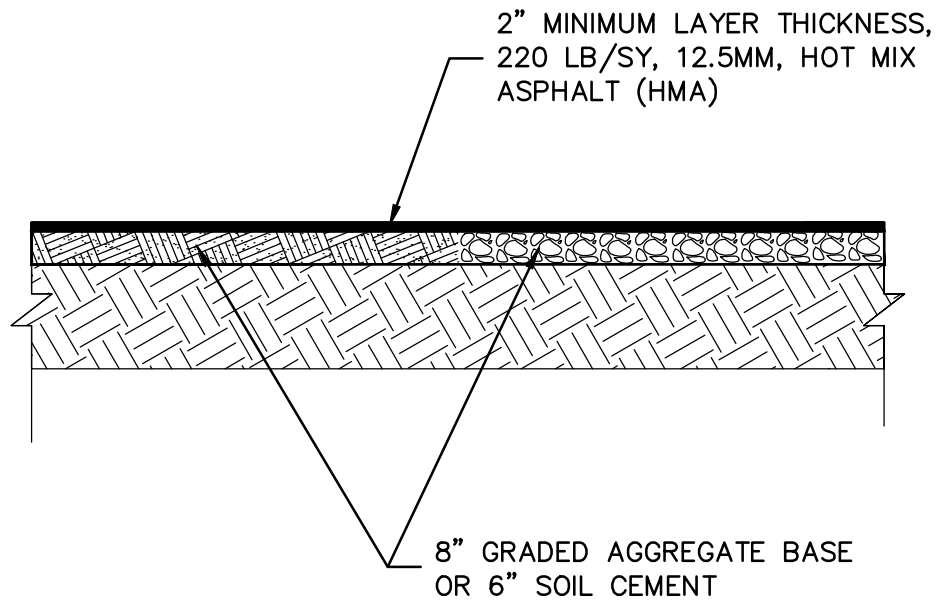
REV. DATE:  
03/15/2004  
8/12/2011

## TYPICAL PAVEMENT SECTION

DETAIL NO.

2022

DATE: 10/10/1988



REV. DATE:  
08/21/2000  
08/12/2011

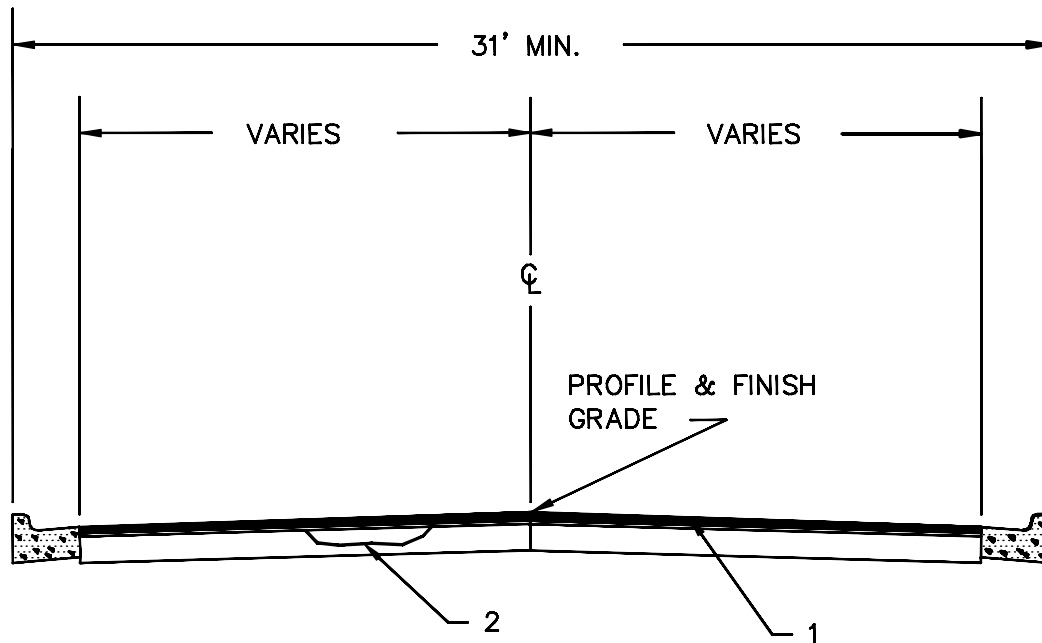
## TYPICAL ALLEY PAVEMENT SECTION

DETAIL NO:

2022A

DATE: 09/20/1999





1.  $1\frac{1}{8}$ " MINIMUM LAY THICKNESS, 125 LB/SY, 9.5 MM TYPE II, HOT MIX ASPHALT (HMA)
2. (HMA) HOT MIX ASPHALT LEVELING MIX TO BE PLACED AS DIRECTED BY THE STREET SUPERINTENDENT, THE CITY ENGINEER, OR THE CITY ENGINEER'S REPRESENTATIVE, SEE TABLE.

### LEVELING AND PATCHING—ALL MIX TYPES

| THICKNESS (in.)                 | RATE OF SPREAD (lbs/yd <sup>2</sup> ) | MIX TYPE           |
|---------------------------------|---------------------------------------|--------------------|
| UP TO $\frac{3}{4}$             | UP TO 85                              | 4.75 OR 9.5—TYPE I |
| $\frac{3}{4}$ TO $1\frac{1}{2}$ | 85 TO 165                             | 9.D—TYPE II        |
| $1\frac{1}{2}$ TO 2             | 165 TO 220                            | 12.5               |

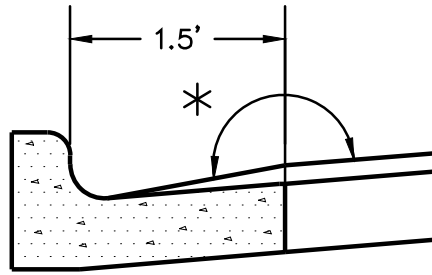
REV. DATE:  
06/25/2002  
08/12/2011

## TYPICAL RESURFACING SECTION

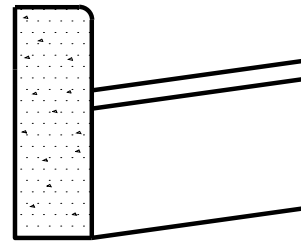
DETAIL NO:

2022B

DATE: 03/09/2001



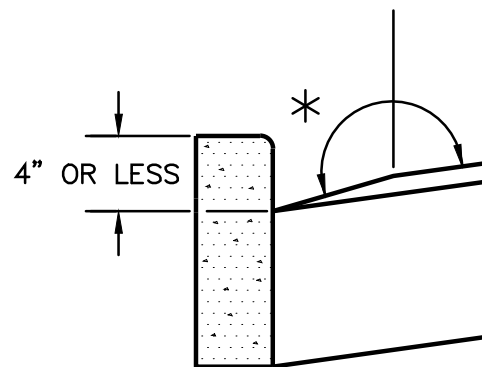
**TYPICAL**



**ALTERNATE "A"**

DETAIL FOR FEATHERING SURFACING  
AT CURB AND GUTTER  
(RESURFACING PROJECTS ONLY)

NTS



**ALTERNATE "B"**

NOTE: METHOD OF FEATHERING AT PAVEMENT EDGE (ALTERNATE "A" OR ALTERNATE "B") SHALL BE DETERMINED BY THE STREET SUPERINTENDENT THE CITY ENGINEER, OR THE CITY ENGINEER'S REPRESENTATIVE. UNDER NORMAL CONDITIONS, ALTERNATE "A" SHALL BE USED FOR FEATHERING UNLESS RESURFACING HAS REDUCED THE "EFFECTIVE HEIGHT" OF THE EXISTING CURB TYPE FACILITY. IN THIS EVENT, ALTERNATE "B" SHALL BE USED.

\* NOTE: THE ALGEBRAIC DIFFERENCE BETWEEN THE NEW RIDING SURFACE AND THE FEATHERING IN THE CURB AND GUTTER SHALL NOT EXCEED 0.07 FT/FT

REV. DATE:

**DETAIL FOR FEATHERING SURFACING  
AT CURB AND GUTTER  
(RESURFACING PROJECTS ONLY)**

DETAIL NO:

**2022C**

DATE: 03/09/2001

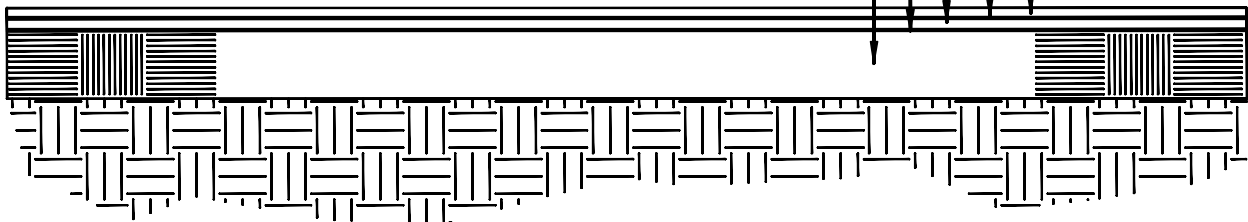
- 1½" MINIMUM LAYER THICKNESS, 165 LB/SY, 12.5MM, HOT MIX ASPHALT (HMA) WEARING SURFACE  
GA. D.O.T. SEC. 400

- BITUMINOUS TACK COAT GA. D.O.T. SEC. 413

- ½" SINGLE BITUMINOUS SURFACE TREATMENT (BST) #6 STONE  
GA. D.O.T. SEC. 424.05

- BITUMINOUS PRIME COAT GA. D.O.T. SEC. 412

- 6" SOIL CEMENT BASE MIXED IN PLACE  
PORTLAND CEMENT CONTENT = 7% GA.  
D.O.T. SEC. 301 USE 8" SOIL CEMENT  
BASE FOR HEAVY-DUTY PAVEMENT



## TYPICAL PAVEMENT SECTION

N.T.S.

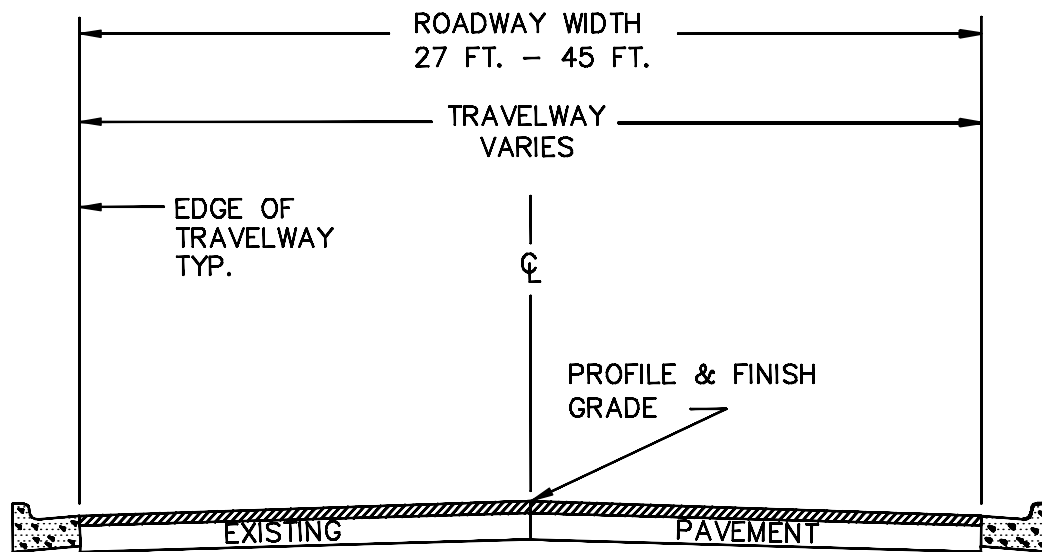
REV. DATE:  
08/12/2011

TYPICAL PAVEMENT WITH BITUMINOUS  
SURFACE TREATMENT (BST)  
SECTION

DETAIL NO.

2022D

DATE: 10/10/1988



 MILLED AND  
RESURFACED AREA

MAINTAIN EXISTING CROSS SLOPE, MILL ROADWAY FULL WIDTH VARIABLE DEPTH (1 $\frac{1}{8}$ " INCHES TYPICAL) AND AS DIRECTED BY THE ENGINEER PROVIDING A SMOOTH TRANSITION AND TIE-IN AT PROJECT START. INLAY ROADWAY BACK FULL WIDTH WITH 125 LBS PER SQUARE YARD RECYCLED ASPHALTIC CONCRETE 9.5 mm SUPERPAVE, TYPE I. DO NOT ALLOW FINISHED ASPHALT TO DROP BELOW LIP OF GUTTERS.

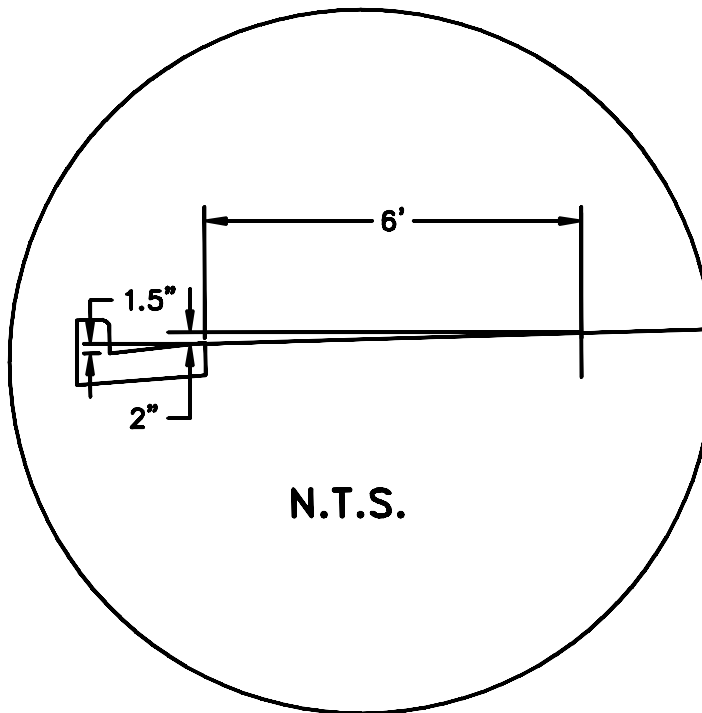
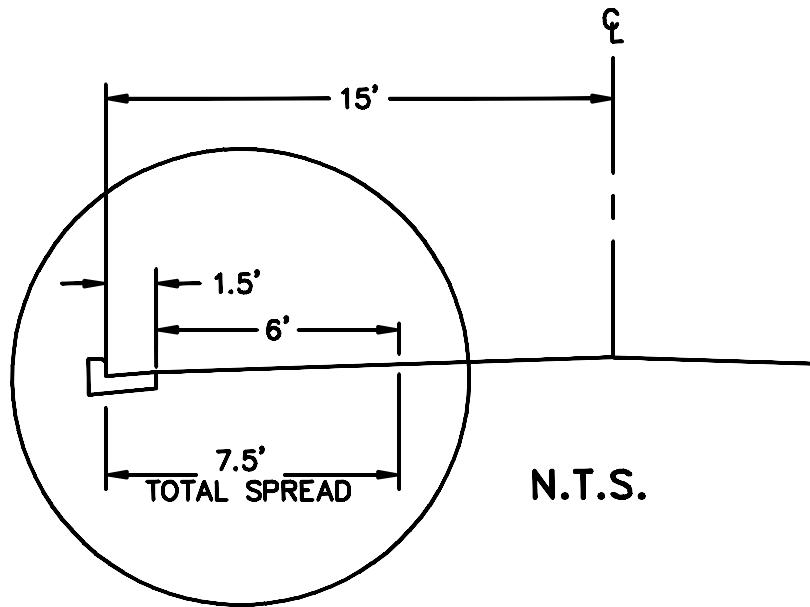
REV. DATE:

## MILLING SECTION

DETAIL NO:

2022E

DATE: 03/01/2013



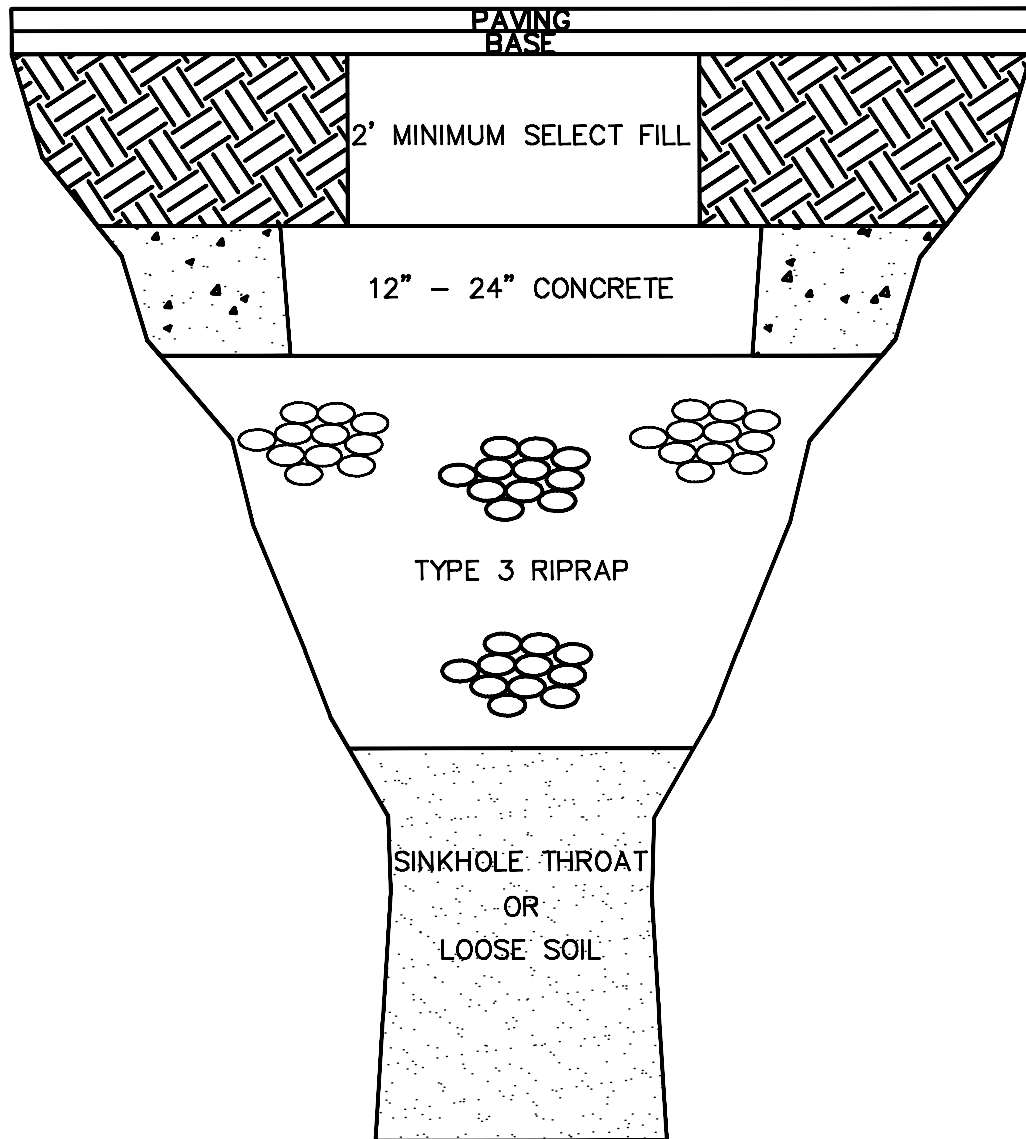
REV. DATE:  
03/23/2006

STANDARD ST. SECTION  
MAXIMUM GUTTER SPREAD

DETAIL NO:

2023

DATE:12/28/1994



NTS

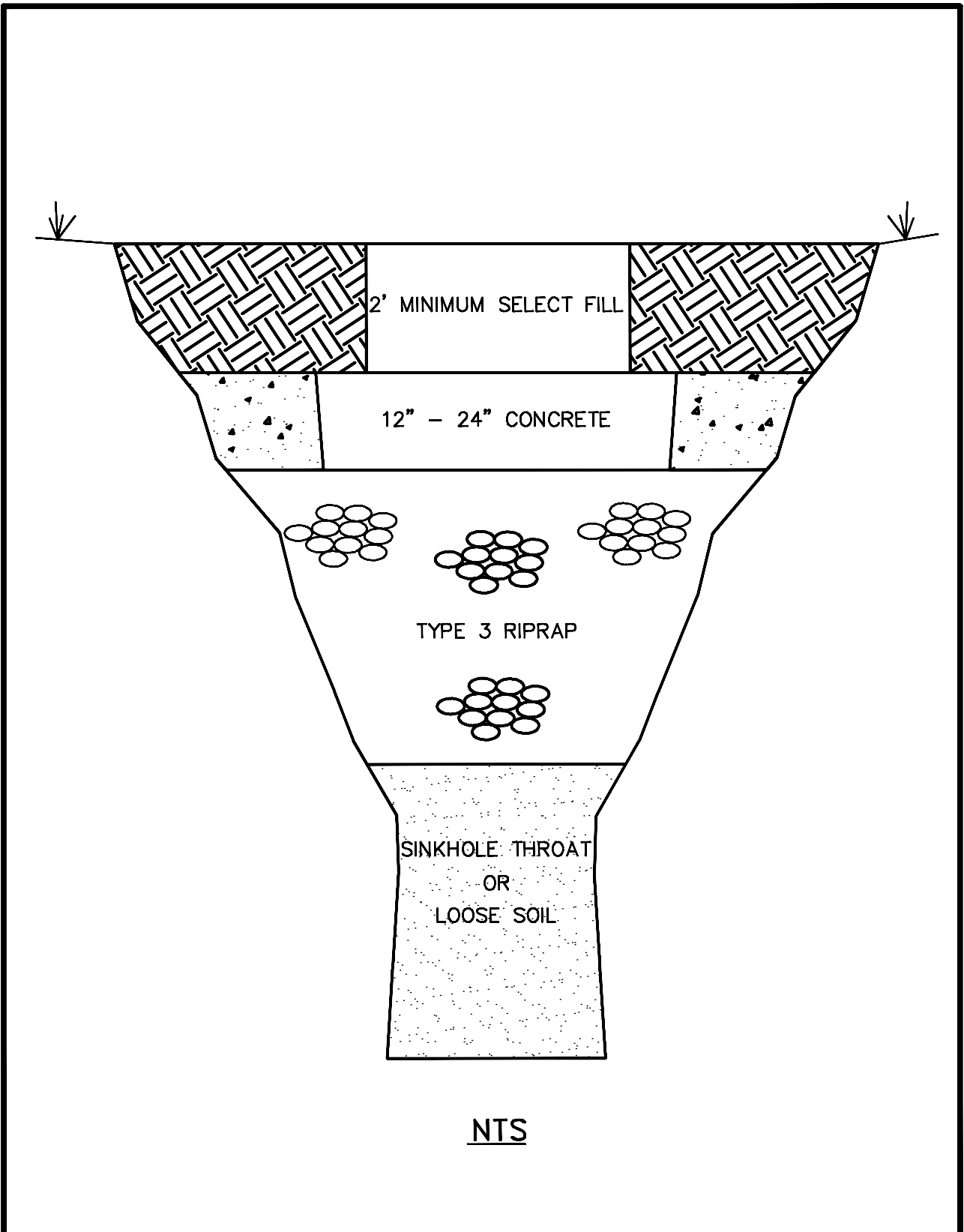
REVISED:  
06/17/2002

**TYPICAL DEPRESSION  
REPAIR DETAIL  
WITHIN PAVED AREA**

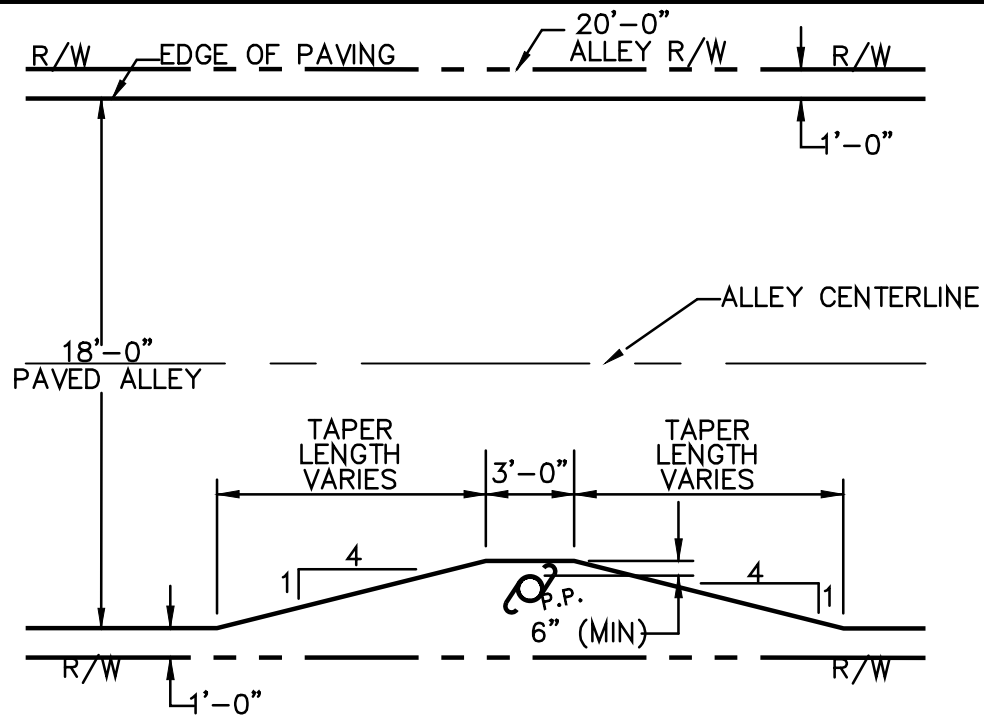
DETAIL NO:

**2024**

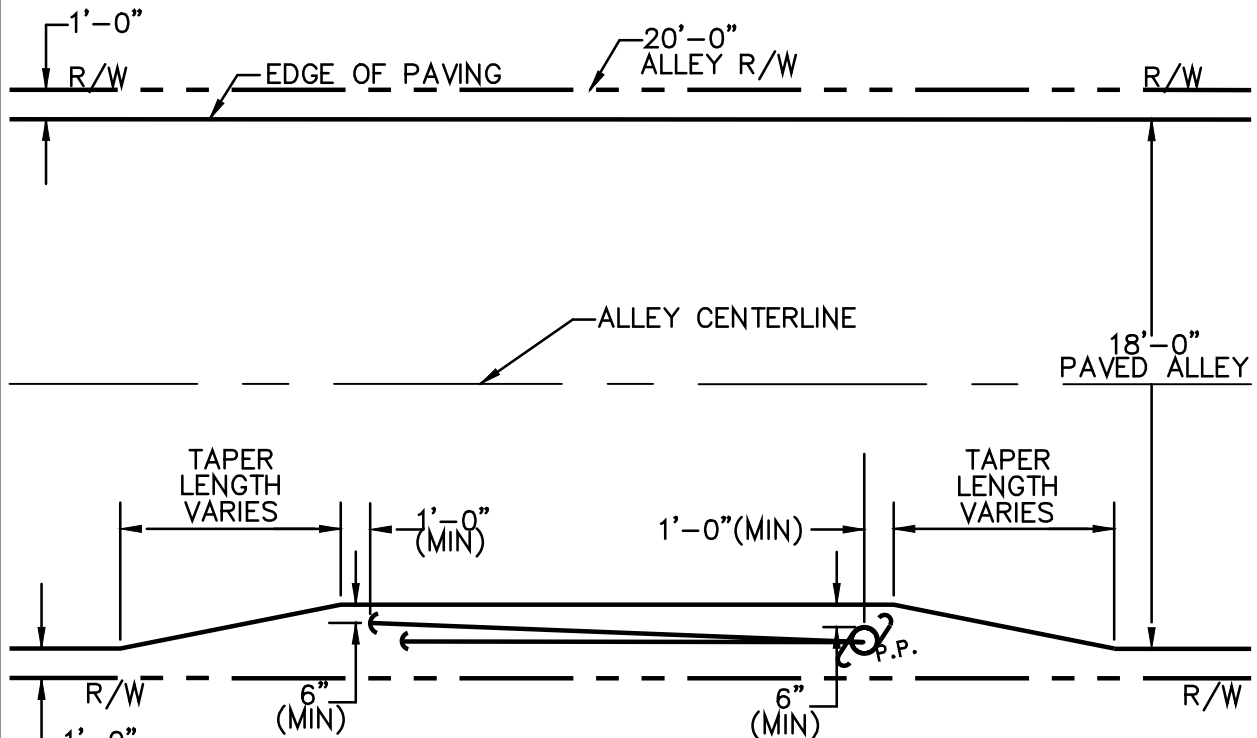
DATE: 08/12/1994



|            |  |  |
|------------|--|--|
| REV. DATE: | <b>TYPICAL DEPRESSION<br/>REPAIR DETAIL<br/>OUTSIDE PAVED AREA</b> | DETAIL NO:<br><br><b>2024A</b><br>DATE: 02/17/2002 |
|------------|--|--|



**TAPER FOR POWER POLES**  
NTS



**TAPER FOR POWER POLE (WITH GUY WIRES)**  
NTS

REV. DATE:

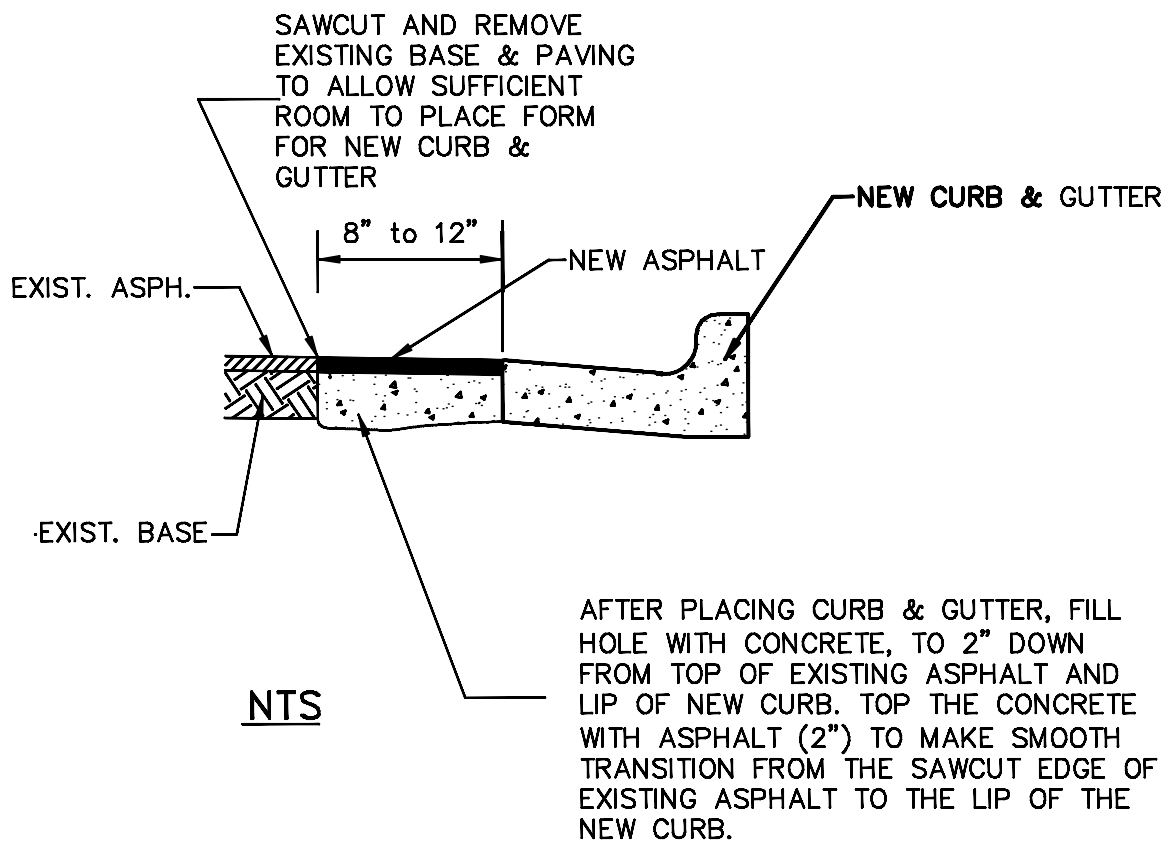
**TAPER FOR POWER  
POLES**

DETAIL NO:

**2025**

DATE: 03/04/2003





REV. DATE:

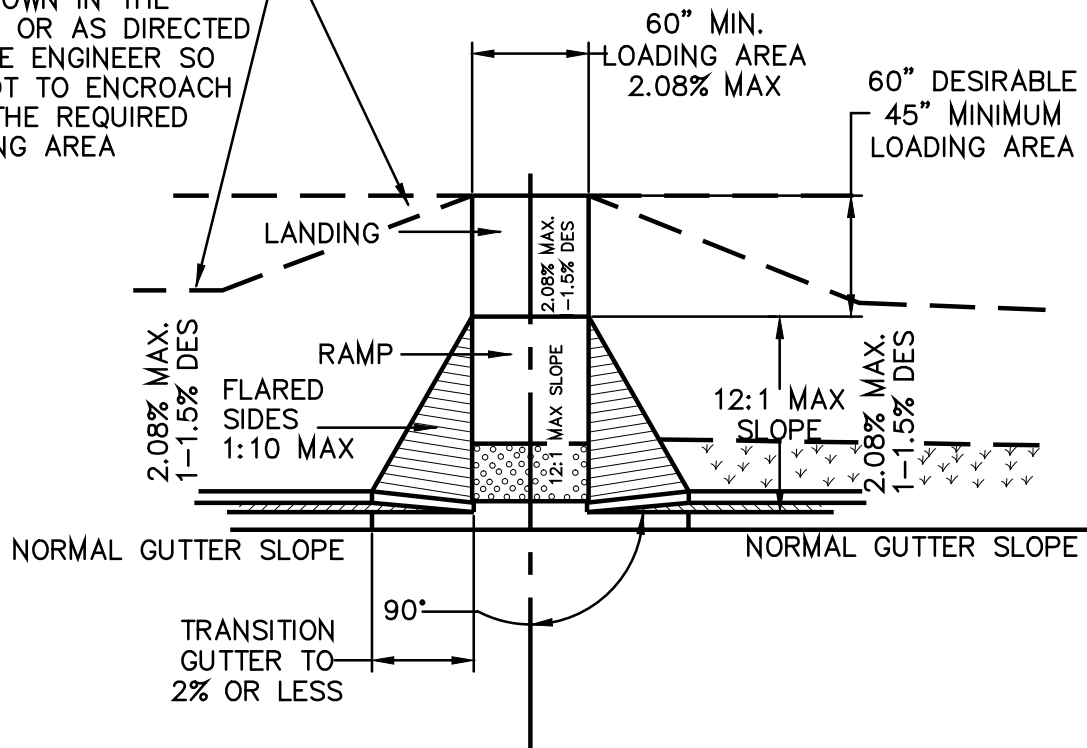
# INSTALLATION OF CURB & GUTTER ON EXISTING PAVEMENT

DETAIL NO:

2026

DATE: 11/04/2003

BACK OF SIDEWALK  
SHALL BE LOCATED  
AS SHOWN IN THE  
PLANS OR AS DIRECTED  
BY THE ENGINEER SO  
AS NOT TO ENCROACH  
INTO THE REQUIRED  
LOADING AREA



**TYPE A**  
(THE PREFERRED RAMP)

NOTE: HALF DOME TACTILE WARNING STRIP, RED BRICK COLOR, OR RED BRICK PAVERS MAY BE USED.

REV. DATE:

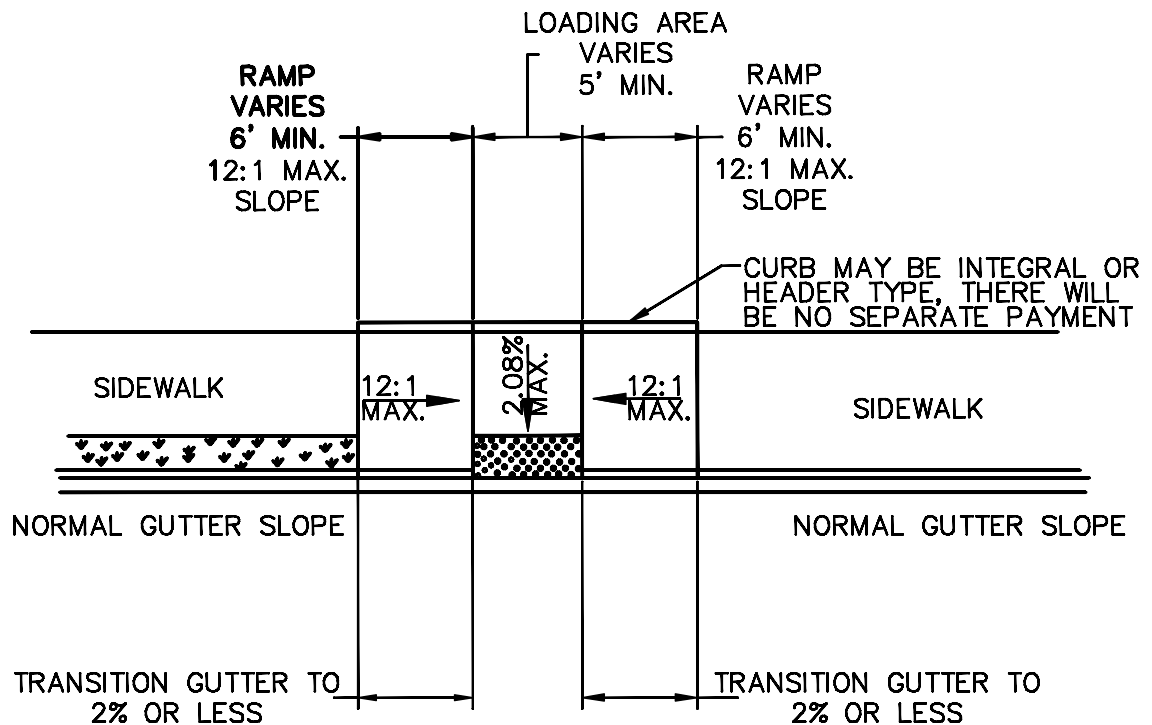
# HANDICAP RAMP D.O.T. TYPE A

DETAIL NO:

2027

DATE: 08/25/2004

(NORMALLY USED WHEN SPACE  
IS NOT AVAILABLE FOR A LANDING  
AT THE TOP OF A TYPE A RAMP)



## TYPE B

NOTE: HALF DOME TACTILE  
WARNING STRIP, RED BRICK COLOR,  
OR RED BRICK PAVERS MAY BE  
USED.

REV. DATE:

## HANDICAP RAMP D.O.T. TYPE B

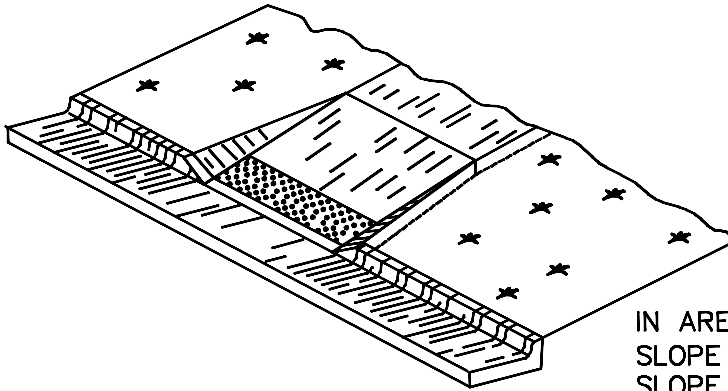
DETAIL NO:

2028

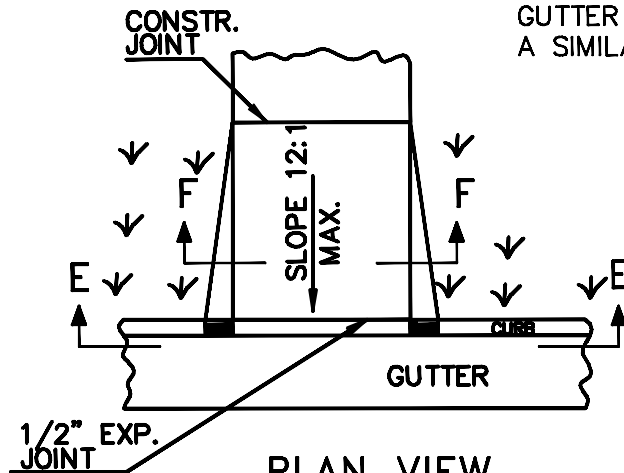
DATE:08/25/2004



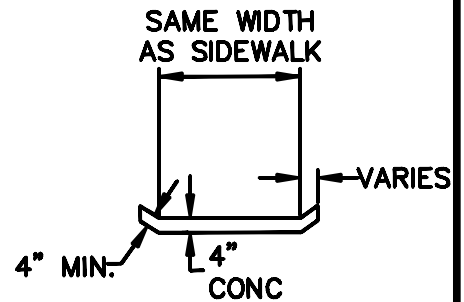
DATE: 02/17/2002



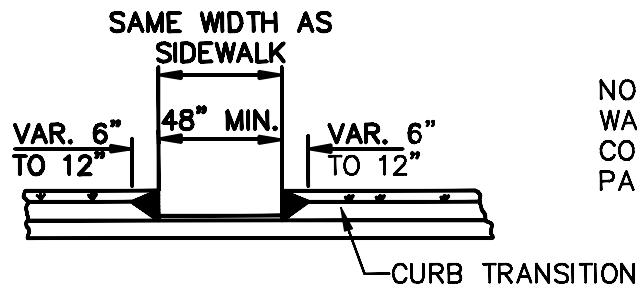
IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1" END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.



PLAN VIEW



SECTION F-F



SECTION E-E

TYPE D

NOTE: HALF DOME TACTILE WARNING STRIP, RED BRICK COLOR, OR RED BRICK PAVERS MAY BE USED.

REV. DATE:

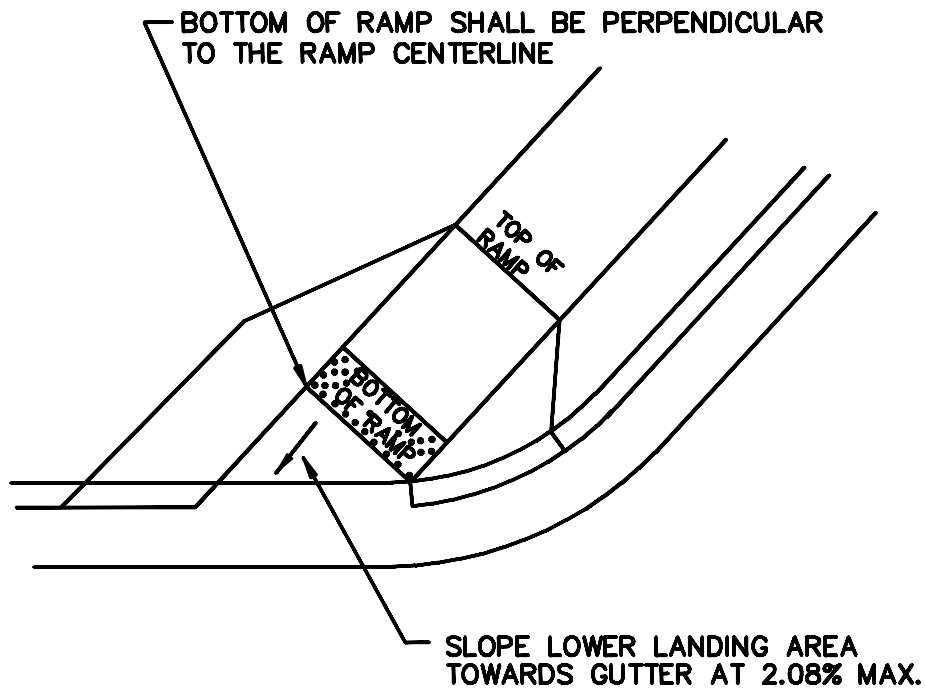
HANDICAP RAMP  
D.O.T. TYPE D

DETAIL NO:

2030

DATE: 08/25/2004

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB  
A LEVEL LANDING AREA WITH SLOPES LESS THAN 2.08%  
MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



### SKEWED RAMP DETAILS

(APPLIES TO TYPE A & TYPE D RAMPS ONLY)

NOTE: HALF DOME TACTILE WARNING  
STRIP, RED BRICK COLOR, OR RED  
BRICK PAVERS MAY BE USED.

REV. DATE:

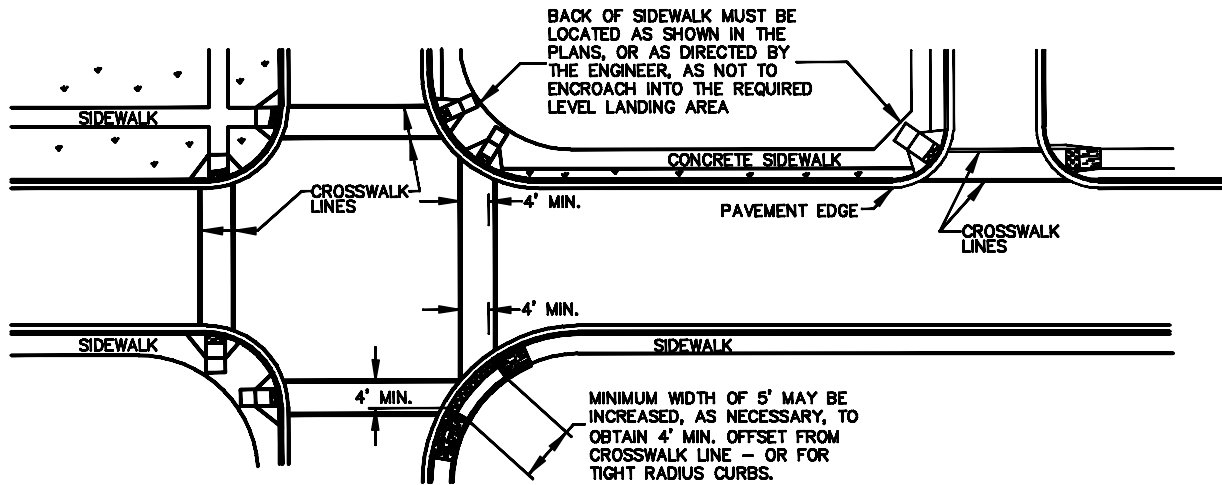
HANDICAP RAMP  
D.O.T. SKEWED

DETAIL NO:

2031

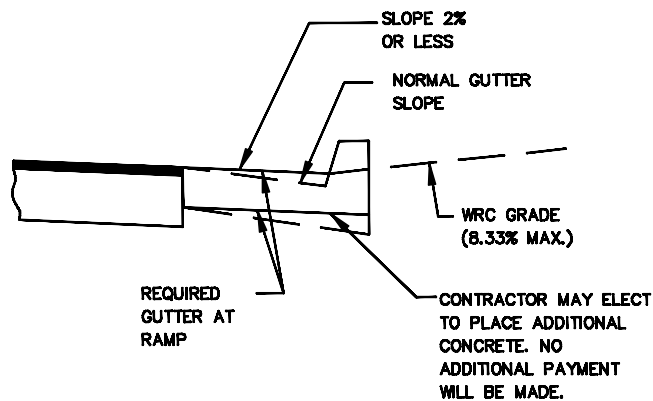
DATE: 08/25/2004

NOTE: HALF DOME TACTILE WARNING STRIP, RED BRICK COLOR, OR RED BRICK PAVERS MAY BE USED.



NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

TYPICAL LOCATIONS FOR CURB CUT RAMPS – PLAN VIEW



GUTTER TRANSITION DETAIL  
N.T.S.

REV. DATE:

# HANDICAP RAMP D.O.T. PLAN VIEW

DETAIL NO:

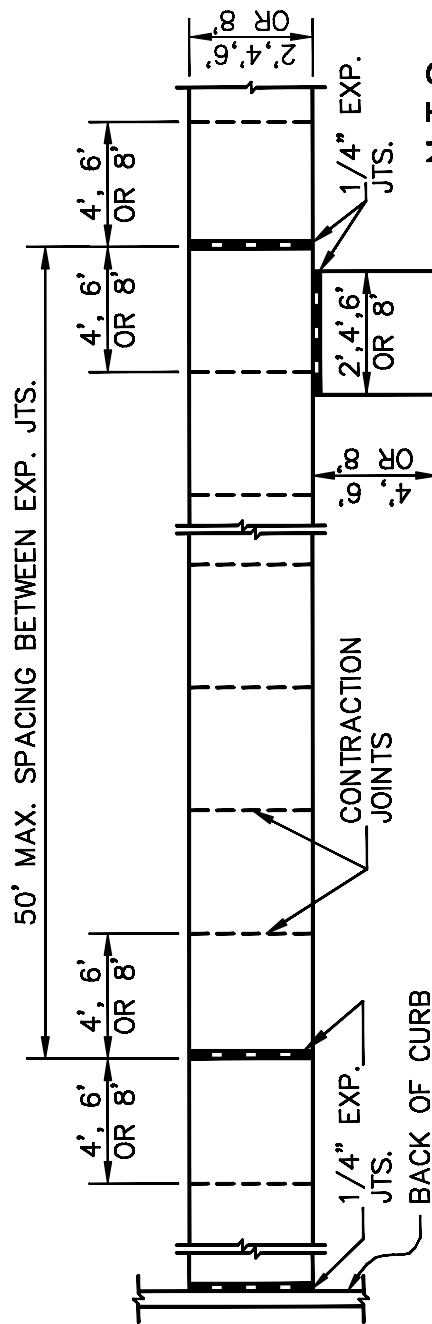
2032

DATE: 08/25/2004



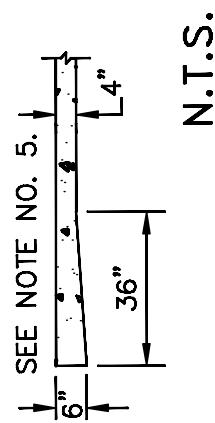
DATE: 03/13/03





NOTE:

1. ALL SIDEWALKS SHALL BE 4" THICK WITH 2500 PSI CONCRETE.
2. CONTRACTION JOINTS SHALL BE SPACED AT 4'-0" INTERVALS FOR 2' AND 4' SIDEWALKS, AND 6' FOR 6' SIDEWALKS.
3. FOR 10' SIDEWALKS SPACE CONTRACTION JOINTS AT 5'-0" INTERVALS AND A LONGITUDINAL CONTRACTION JOINT IN THE CL OF SIDEWALK.
4. CONTRACTION JOINTS SHALL BE 1" DEEP AND EDGED WITH 1/8" RADIUS.
5. WHEN SIDEWALKS ABOUT ROADWAY, WHERE THERE IS NO CURB, THICKEN WALK TO 6" IN 3'-0".
6. 1/2" EXP. MATERIAL REQUIRED WHERE CONCRETE SIDEWALK ABOUT CONCRETE STRUCTURE.
7. A LAYER OF 15# FELT IS REQUIRED BETWEEN WALK AND ADJACENT PARALLELING CONCRETE CURB.



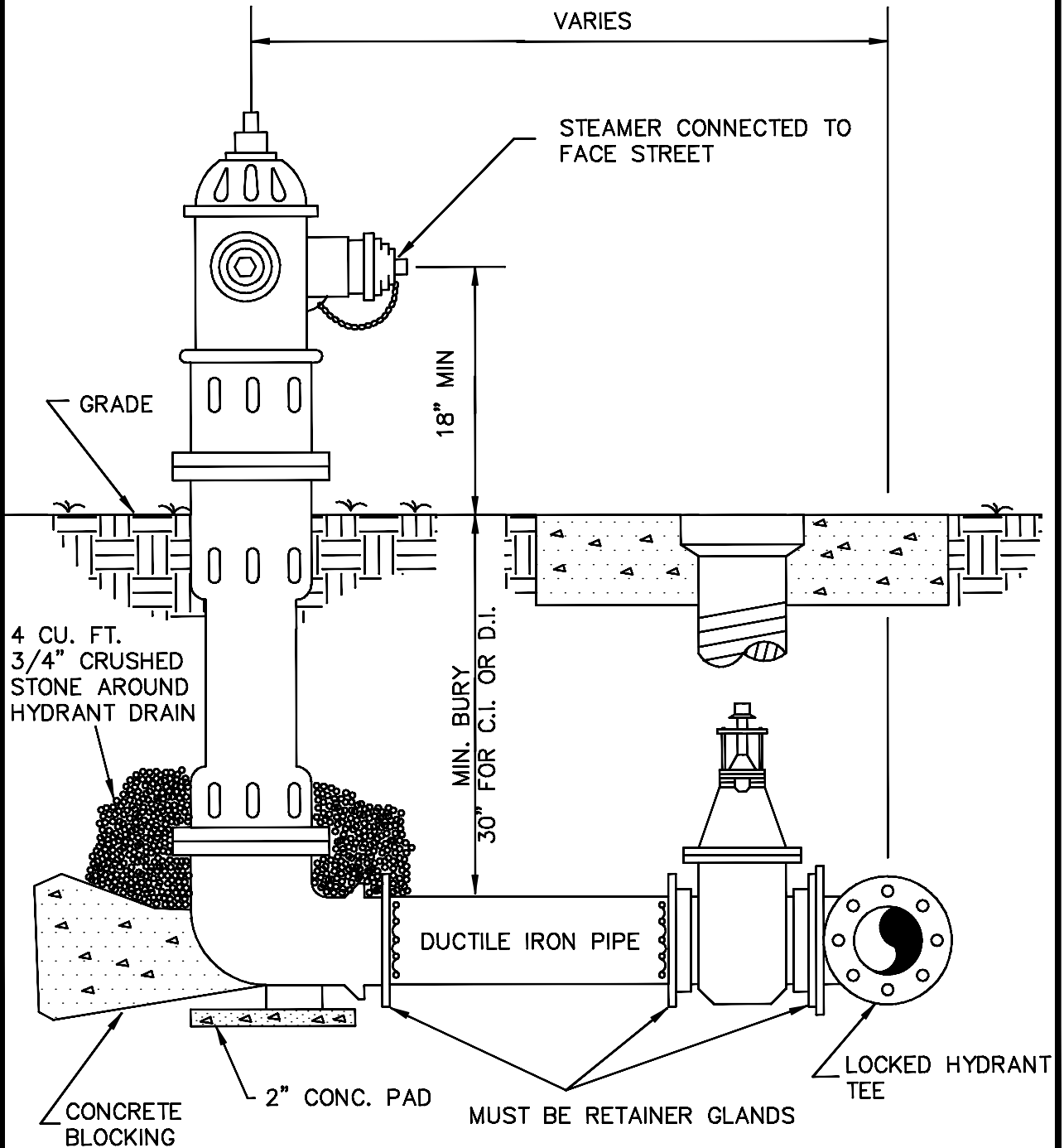
# STANDARD JOINT LAYOUT FOR CONCRETE SIDEWALKS

DETAIL NO:

2034

DATE: 02/09/13

FIRE HYDRANT  
MUELLER NO. A-24015  
OR APPROVED EQUAL



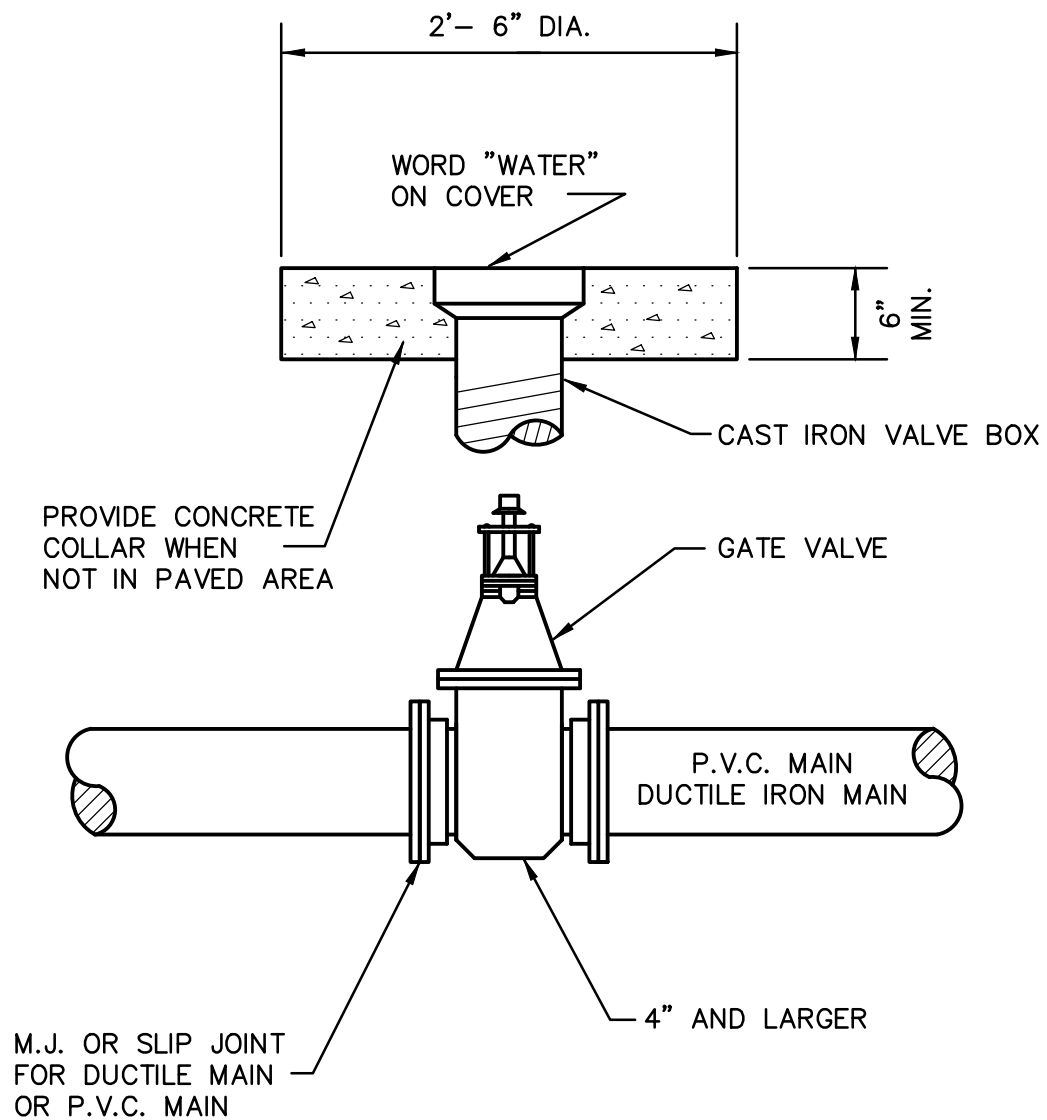
REV. DATE:

## TYPICAL FIRE HYDRANT INSTALLATION

DETAIL NO:

3001

DATE: 09/23/1988



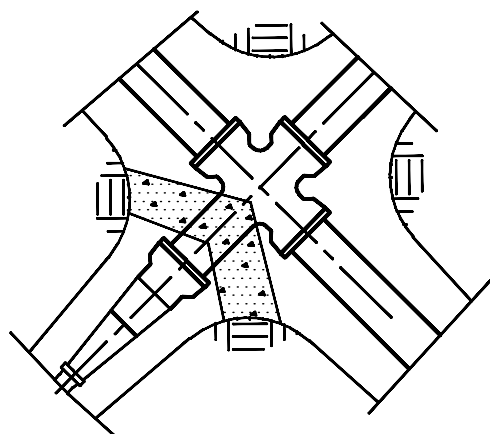
REV. DATE:  
08/21/2000

## TYPICAL VALVE INSTALLATION

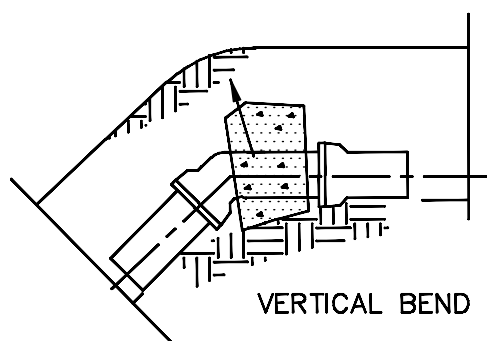
DETAIL NO:

3002

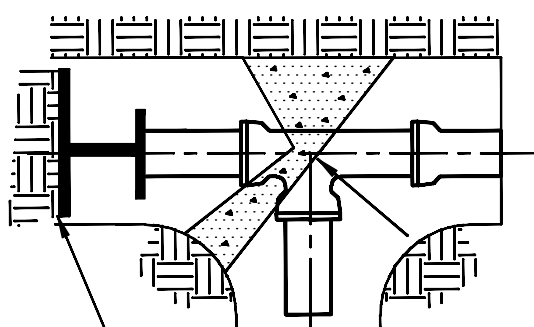
DATE: 09/29/1988



REDUCING CROSS

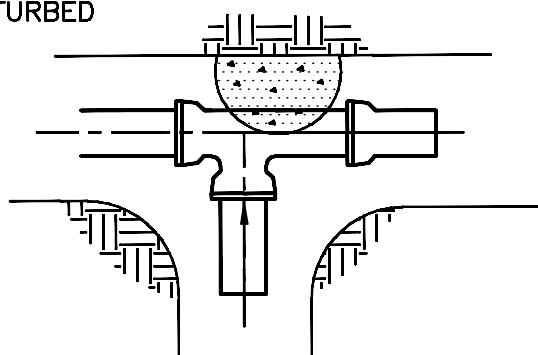


VERTICAL BEND

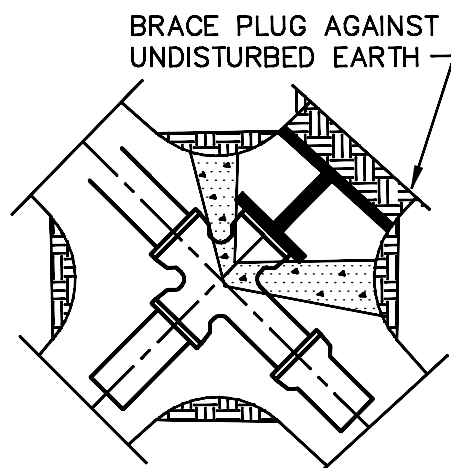


PLUGGED TEE

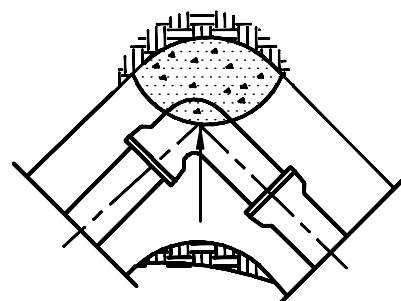
BRACE  
PLUG AGAINST  
UNDISTURBED  
EARTH



TEE



PLUGGED CROSS



90 DEG ELBOW

1. ALL BLOCKS MUST BEAR AGAINST UNDISTURBED EARTH.
2. ARROWS INDICATE DIRECTION OF THRUST.
3. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.
4. PROVIDE MINIMUM BEARING AREA IN S.F. AS FOLLOWS BASED ON 150 PSI TEST PRESSURE AND 2000 PSF SOIL BEARING.

| PIPE<br>SIZE | TEE<br>DEADENDS | 11 1/4'<br>BEND | 22 1/2'<br>BEND | 45'<br>BEND | 90'<br>BEND |
|--------------|-----------------|-----------------|-----------------|-------------|-------------|
| 4"           | 1.0             | 0.5             | 0.5             | 0.8         | 1.3         |
| 6"           | 2.2             | 0.5             | 0.9             | 1.6         | 3.0         |
| 8"           | 3.8             | 0.8             | 1.5             | 2.9         | 5.3         |
| 10"          | 6.0             | 1.2             | 2.3             | 4.5         | 8.4         |
| 12"          | 8.5             | 1.7             | 3.3             | 6.5         | 12.1        |
| 14"          | 11.6            | 2.3             | 4.5             | 8.9         | 16.4        |
| 16"          | 15.2            | 3.0             | 5.9             | 11.6        | 21.4        |

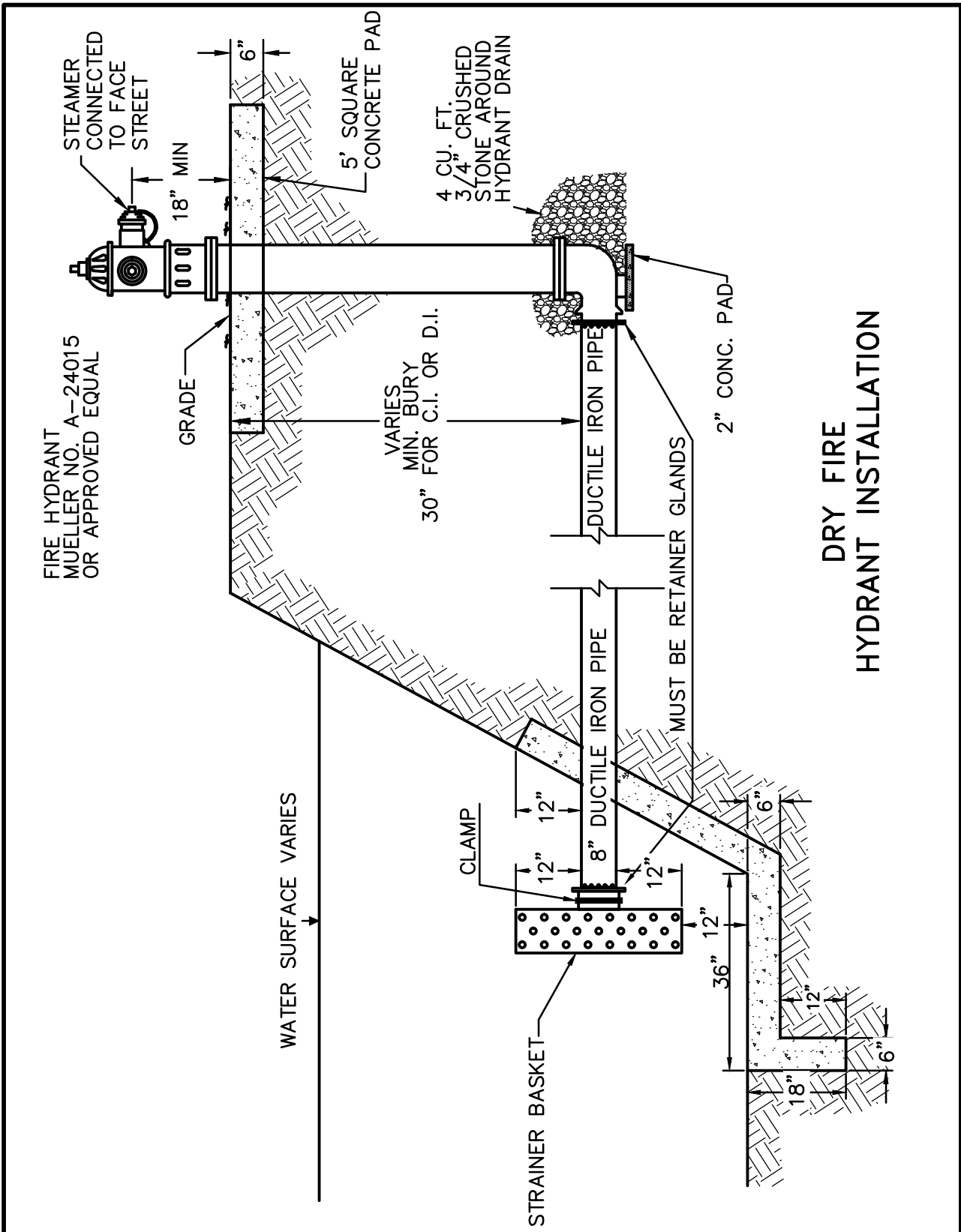
REV. DATE:  
03/24/2006

## THRUST BLOCK

DETAIL NO:

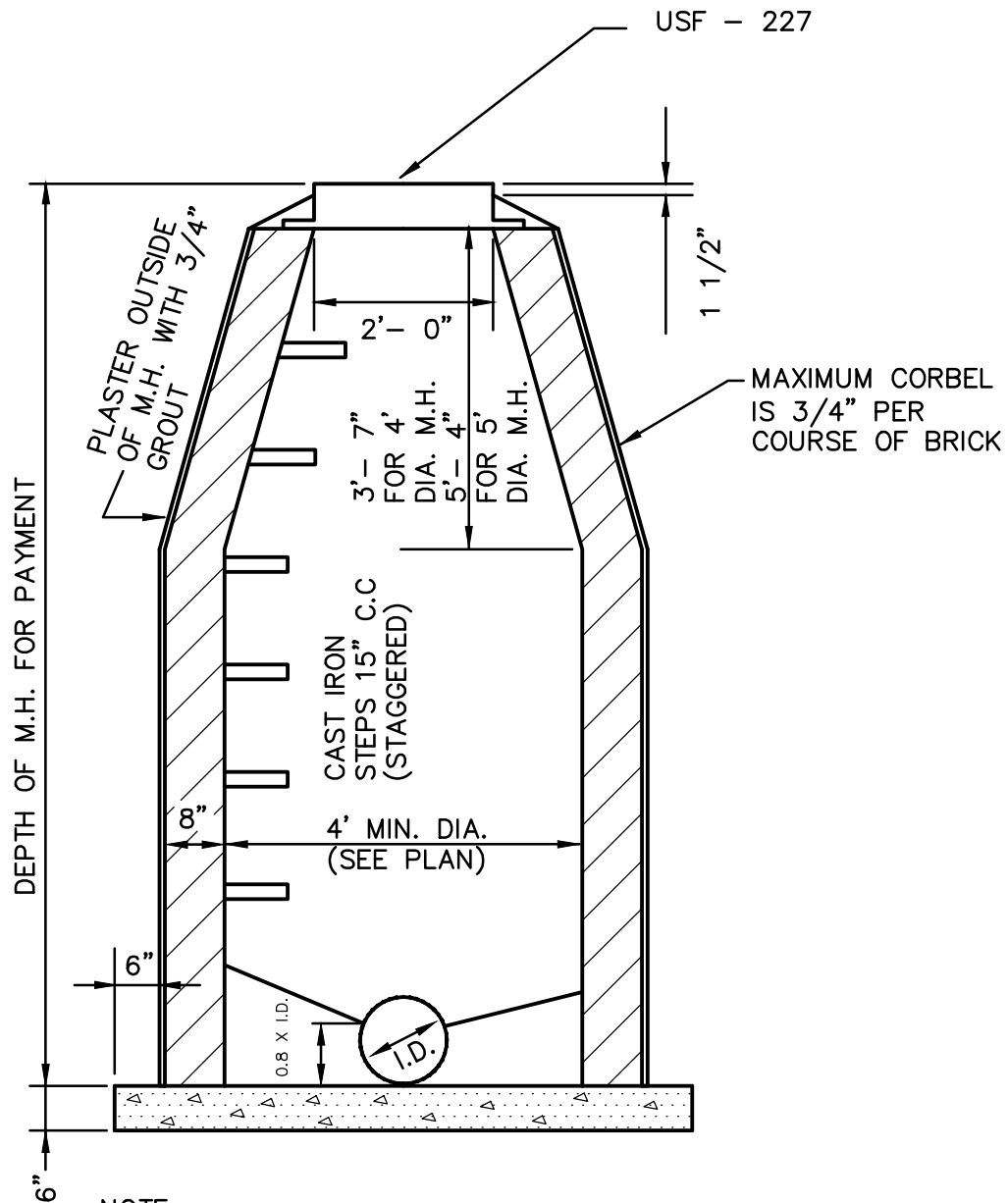
3003

DATE: 09/29/1988



# DRY FIRE HYDRANT INSTALLATION

|            |  |  |
|------------|--|--|
| REV. DATE: | <p>DRY FIRE<br/>HYDRANT INSTALLATION</p> | <p>DETAIL NO:<br/><b>3004</b><br/>DATE: 08/17/2007</p> |
|------------|--|--|



**NOTE:**

1. USE SOLID CLAY BRICK ONLY.
2. A 0.05' MINIMUM FALL ACROSS MANHOLE IS REQUIRED UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.
3. WHERE TAPS ENTER MANHOLE, NEOPRENE BOOT OR OTHER APPROVED SEALING METHOD REQUIRED. NEOPRENE BOOT OR OTHER APPROVED SEALING METHOD REQUIRED AT PIPE ENTRY.

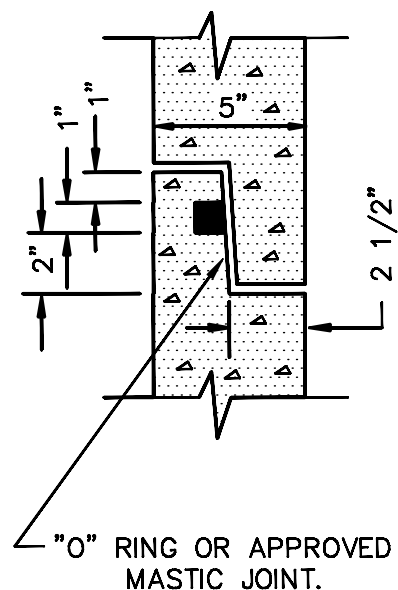
REV. DATE:  
08/21/2000

# STANDARD BRICK MANHOLE SANITARY SEWER SYSTEM

DETAIL NO:

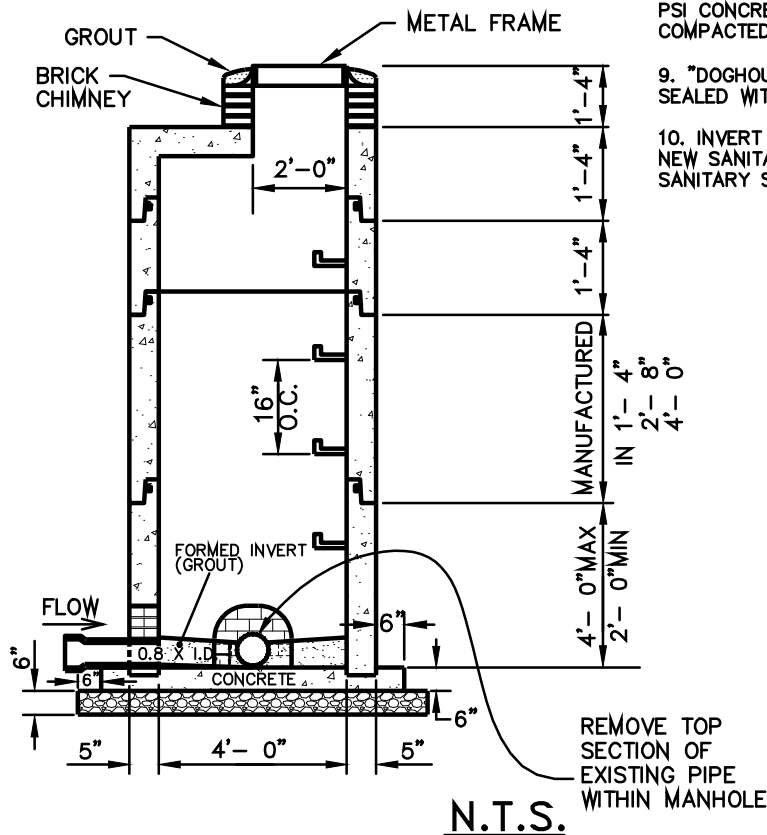
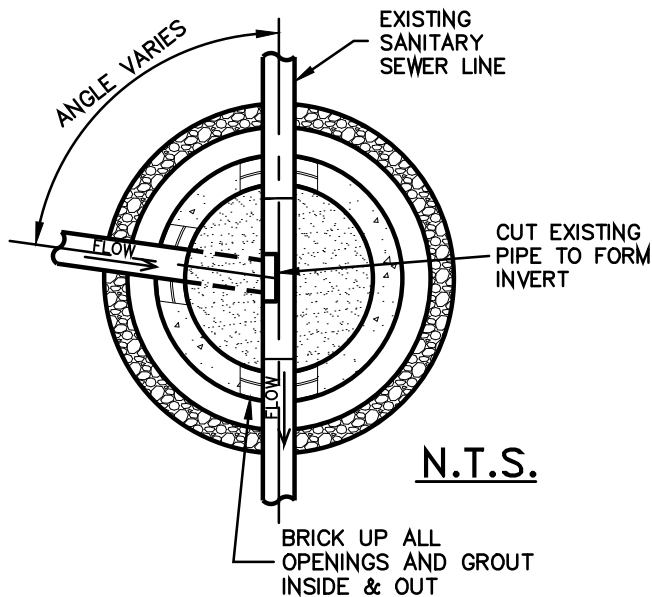
4001

DATE: 09/23/1988



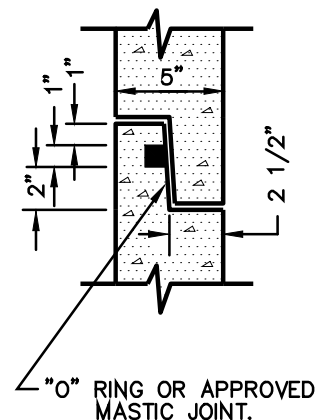
DATE: 09/23/1988

NOTE:  
DEPENDING ON THE ANGLE  
AND SIZE OF THE PIPES, ONE  
LARGE OPENING INSTEAD OF  
2 SMALL OPENINGS MAY BE  
REQUIRED.



#### NOTES:

1. PRECAST MANHOLE SECTIONS ARE MANUFACTURED IN LENGTHS OF 1'- 4", 2'- 8" & 4'- 0".
2. THE FIRST TWO SECTIONS BELOW THE TOP SECTION MUST BE 1'- 4" LONG ON ALL PROJECTS WITHIN THE CITY OF ALBANY.
3. A 0.05' MINIMUM FALL ACROSS MANHOLE IS REQUIRED UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.
4. ALIGN THE ACCESS OPENING ON NON-CONCENTRIC TOPS DIRECTLY OVER THE EXIT PIPE OF MANHOLE.
5. THE PREFERRED HEIGHT OF 1'- 4" FOR THE BRICK CHIMNEY AND METAL FRAME MAY BE VARIED SLIGHTLY WITH PRIOR APPROVAL OF THE ENGINEER.
6. TOP MUST BE DESIGNED & CONSTRUCTED TO MEET HIGHWAY LOADING FOR TRUCK TRAFFIC.
7. BOTTOM SECTION HAS "DOGHOUSE" CUTOUTS (PREFORMED BY MANUFACTURER) TO FIT OVER EXISTING SANITARY SEWER LINE. ADDITIONAL CUTOUTS ARE REQUIRED FOR ANY NEW SANITARY SEWER LINES THAT WILL BE TIED INTO THE MANHOLE. THE BOTTOM SECTION HAS NO PRECAST FLOOR.
8. THE BOTTOM MANHOLE SECTION SHALL BE SET 2" BELOW THE BOTTOM OF EXISTING SANITARY SEWER LINE AND 2" INTO THE CONCRETE BASE. CONCRETE BASE TO BE A SINGLE POUR (IN PLACE) OF A MINIMUM OF 4000 PSI CONCRETE. CONTRACTOR TO PROVIDE A MINIMUM 6" COMPACTED #57 STONE BASE BELOW CONCRETE.
9. "DOGHOUSE" CUTOUTS SHALL BE BRICKED UP AND SEALED WITH GROUT BOTH INSIDE AND OUT.
10. INVERT SHALL BE FORMED BY GROUT FROM THE NEW SANITARY LINE TO THE INVERT OF THE EXISTING SANITARY SEWER LINE.



REV. DATE:  
01/14/2014

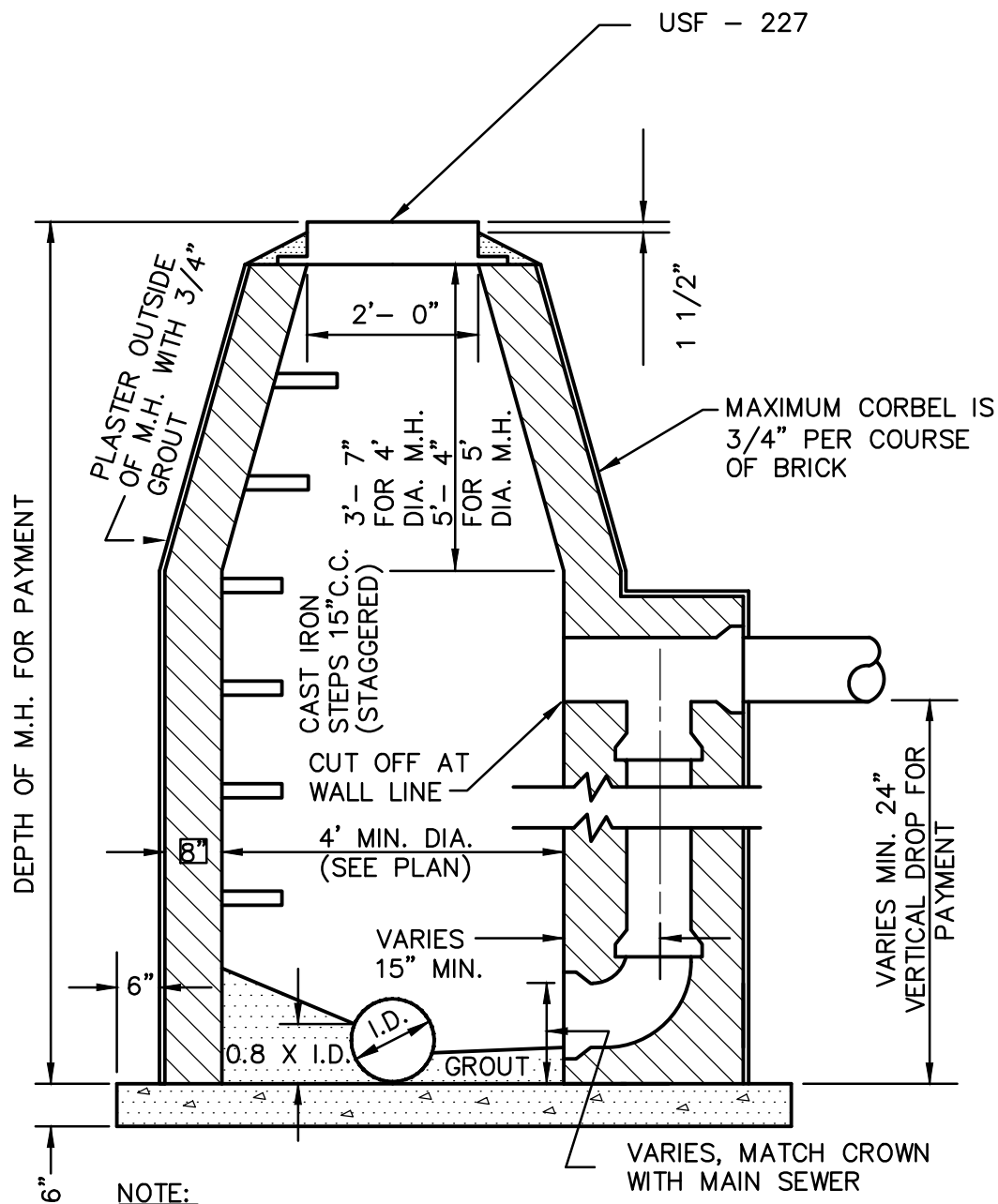
## DOGHOUSE PRECAST MANHOLE

DETAIL NO:

4002A

DATE: 07/26/2012





1. WHERE TAPS ENTER MANHOLE, NEOPRENE BOOT OR OTHER APPROVED SEALING METHOD REQUIRED. NEOPRENE BOOT OR OTHER APPROVED SEALING METHOD REQUIRED AT PIPE ENTRY.
2. A 0.05' MINIMUM FALL ACROSS MANHOLE IS REQUIRED UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.

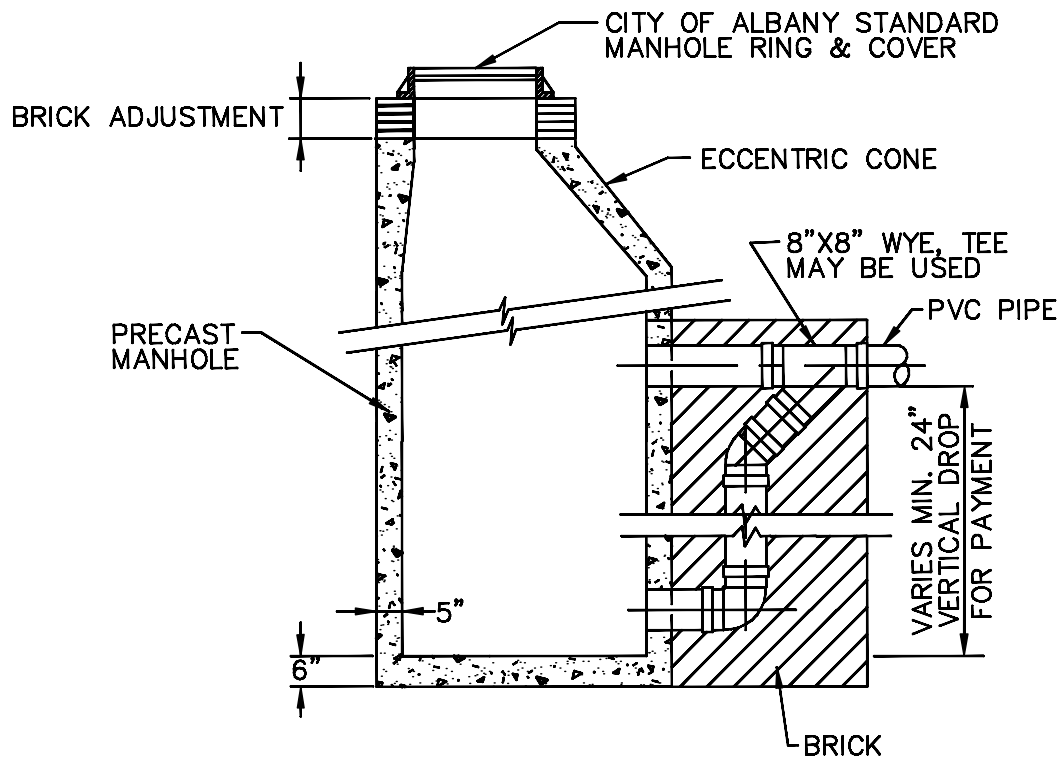
REV. DATE:  
10/11/2002

## DROP MANHOLE

DETAIL NO:

4003

DATE: 09/23/1988



NOTE:

1. A 0.05' MINIMUM FALL ACROSS MANHOLE IS REQUIRED UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.

REV. DATE:  
01/14/2014

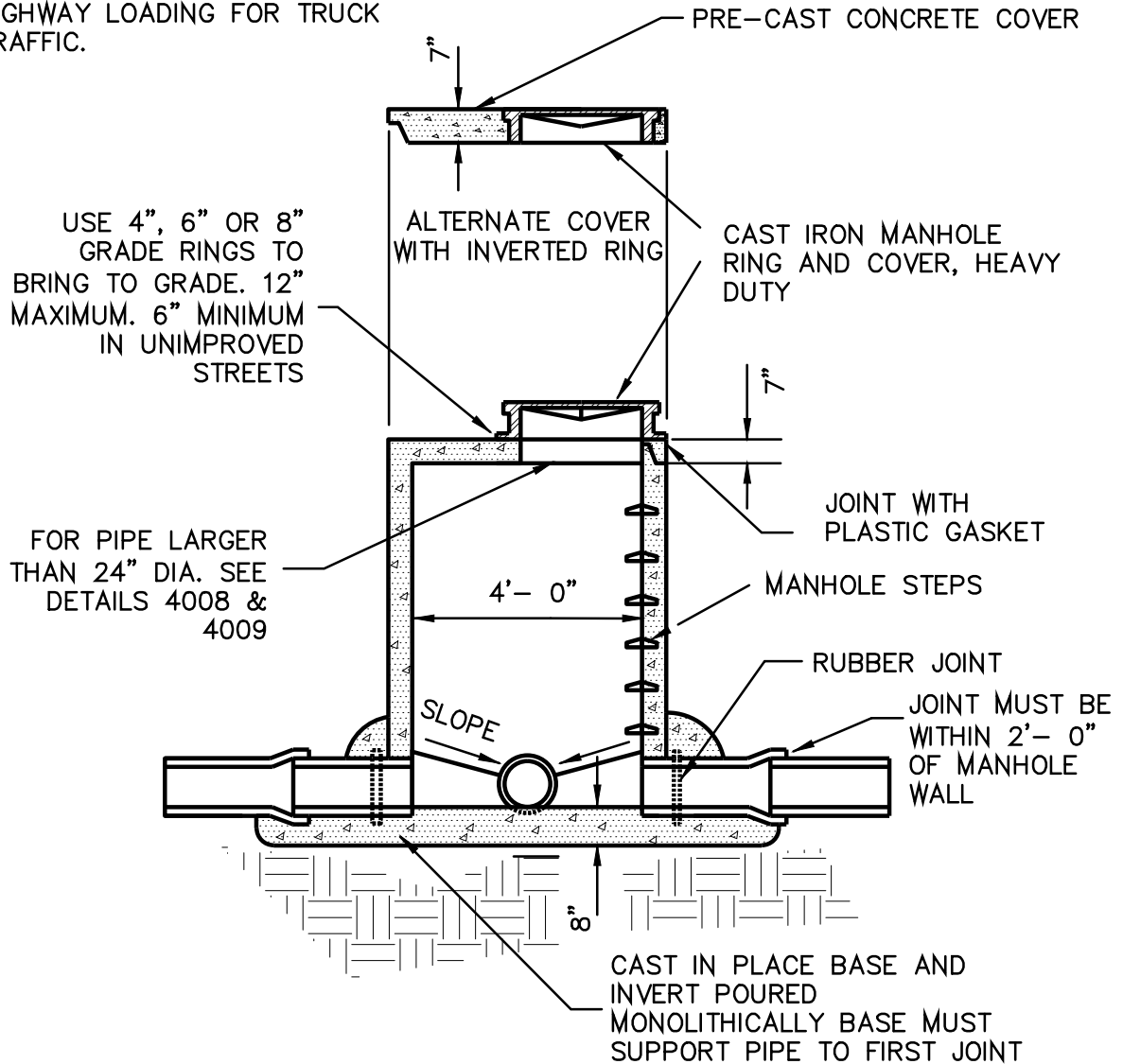
PRECAST CONCRETE  
MANHOLE  
OUTSIDE DROP

DETAIL NO:

4003A

DATE: 01/03/2012

NOTE: TOP MUST BE DESIGNED  
& CONSTRUCTED TO MEET  
HIGHWAY LOADING FOR TRUCK  
TRAFFIC.



NOTE:

1. WHERE TAPS ENTER MANHOLE, NEOPRENE BOOT OR OTHER APPROVED SEALING METHOD REQUIRED. NEOPRENE BOOT OR OTHER APPROVED SEALING METHOD REQUIRED AT PIPE ENTRY.
2. A 0.05' MINIMUM FALL ACROSS MANHOLE IS REQUIRED UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.

REV. DATE:  
01/14/2014

SHALLOW MANHOLE

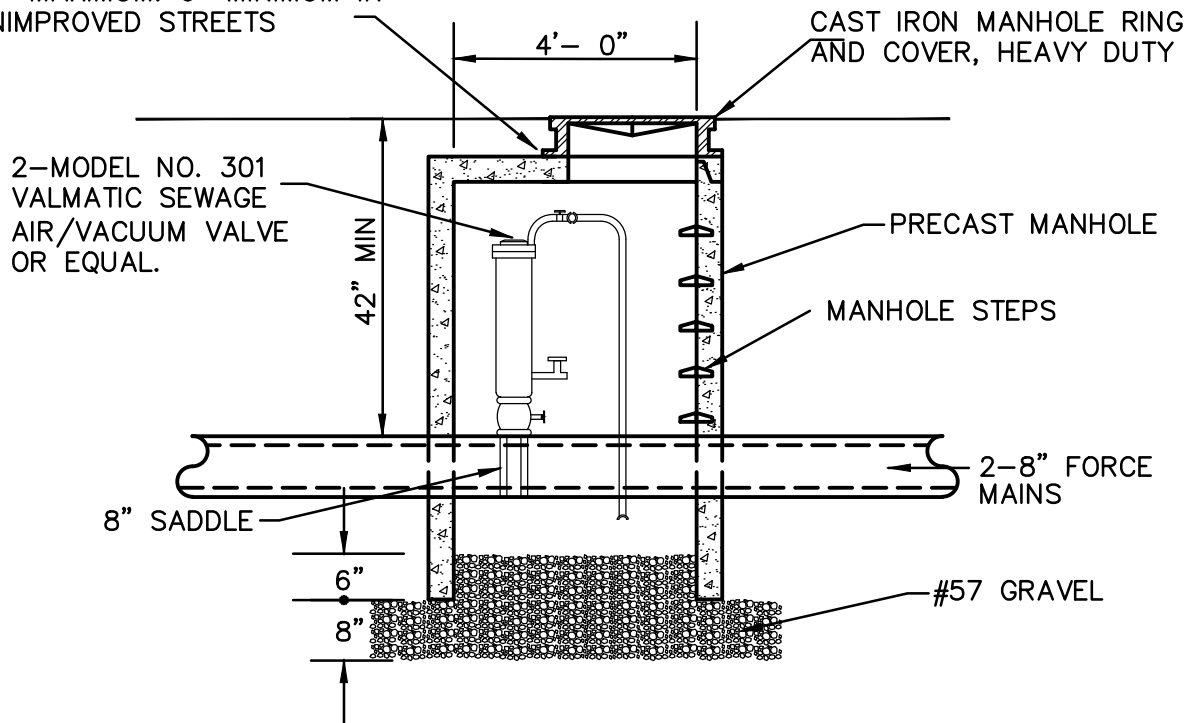
DETAIL NO:

4004

DATE: 10/04/1988

DT12999

USE 4", 6" OR 8" GRADE  
RINGS TO BRING TO GRADE.  
12" MAXIMUM. 6" MINIMUM IN  
UNIMPROVED STREETS



REV. DATE:

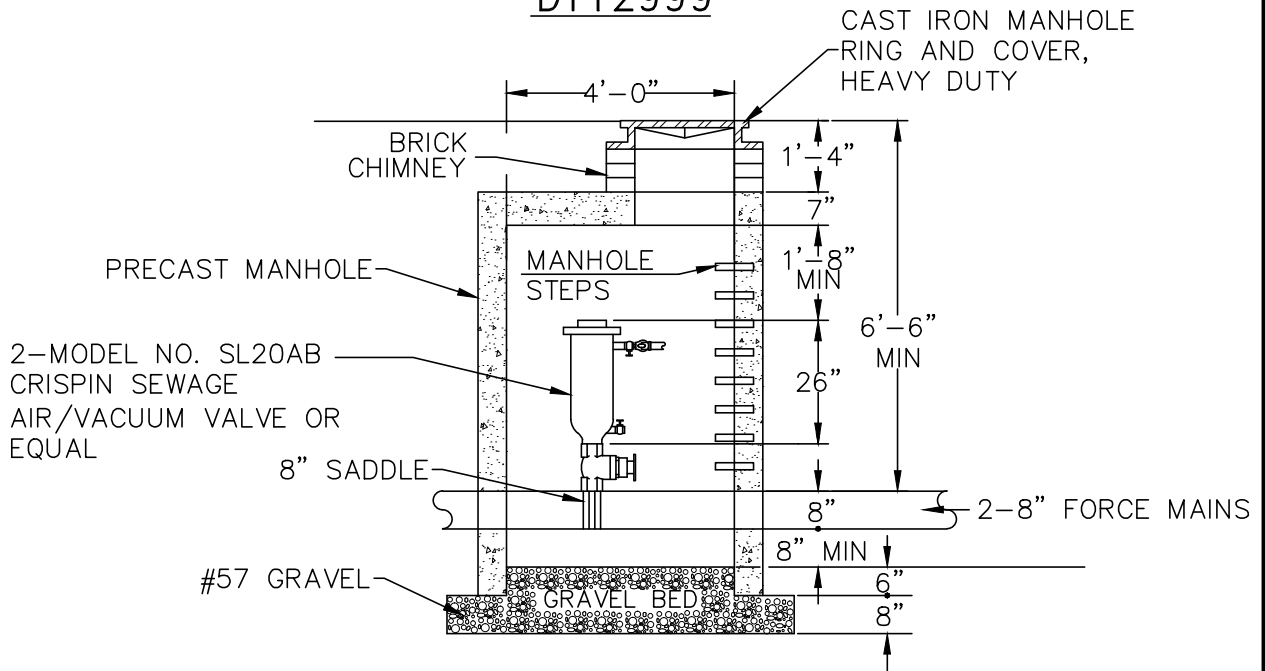
AIR/VACUUM VALVE  
MANHOLE

DETAIL NO:

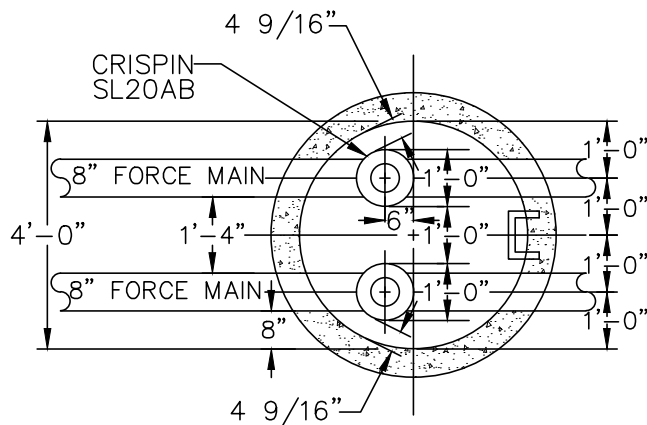
4004A

DATE: 01/13/1998

DT12999



AIR/VACUUM VALVE  
MANHOLE DETAIL  
NTS



AIR/VACUUM VALVE  
MANHOLE PLAN VIEW  
NTS

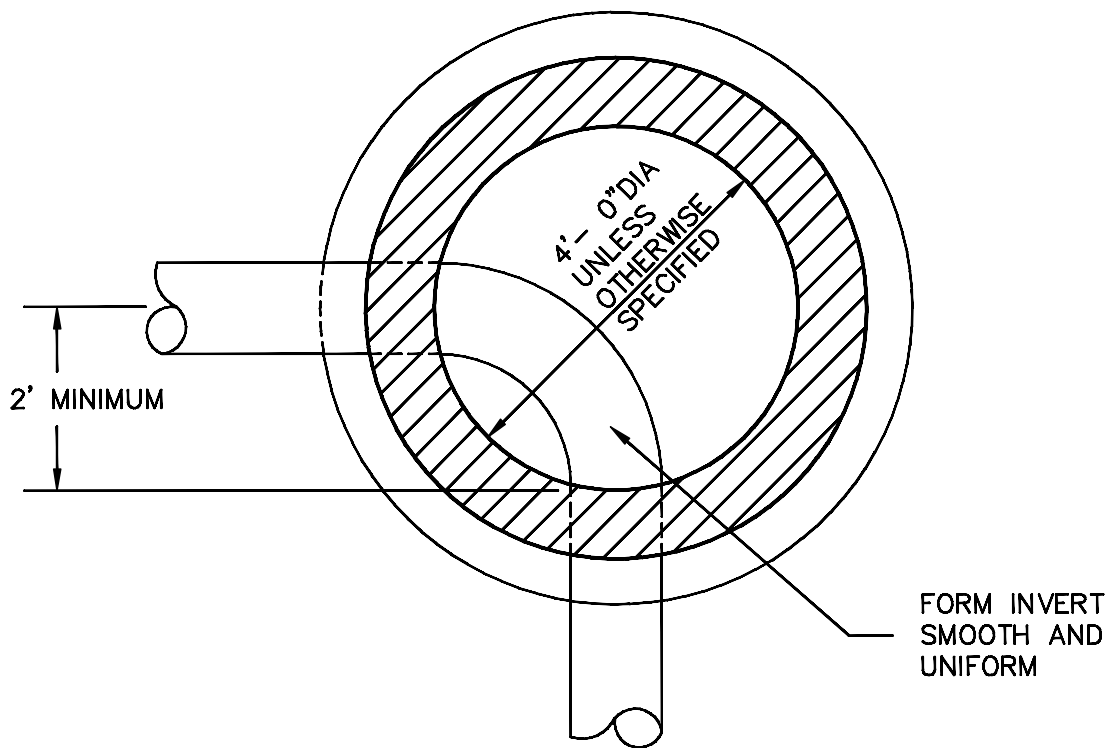
REV. DATE:

AIR/VACUUM VALVE  
MANHOLE

DETAIL NO:

4004B

DATE: 01/13/1998



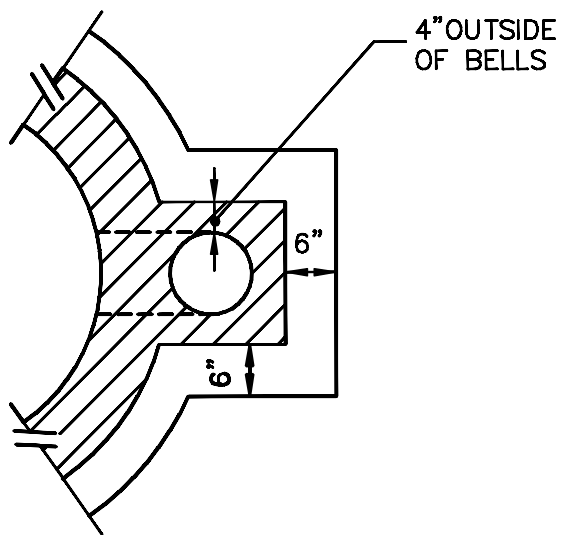
REV. DATE:

PLAN  
TYPICAL MANHOLE

DETAIL NO:

4005

DATE: 09/23/1988



NOTE:

TEE BRANCH MAY BE ONE  
SIZE SMALLER THAN SEWER.  
MINIMUM SIZE IS 8".

REV. DATE:

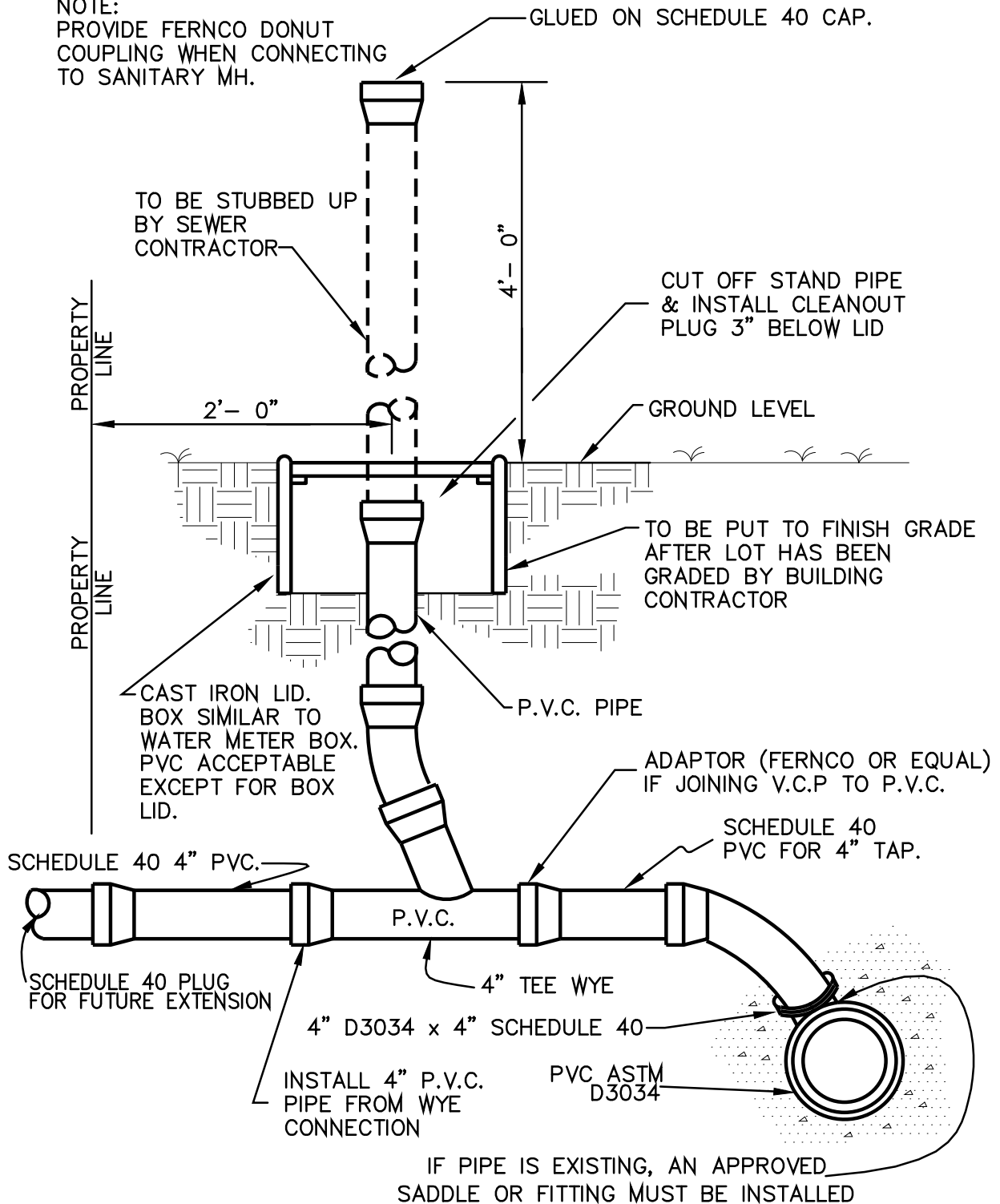
PLAN  
DROP CONNECTION

DETAIL NO:

4006

DATE: 09/23/1988

NOTE:  
PROVIDE FERNCO DONUT  
COUPLING WHEN CONNECTING  
TO SANITARY MH.



REV. DATE:  
02/17/1994

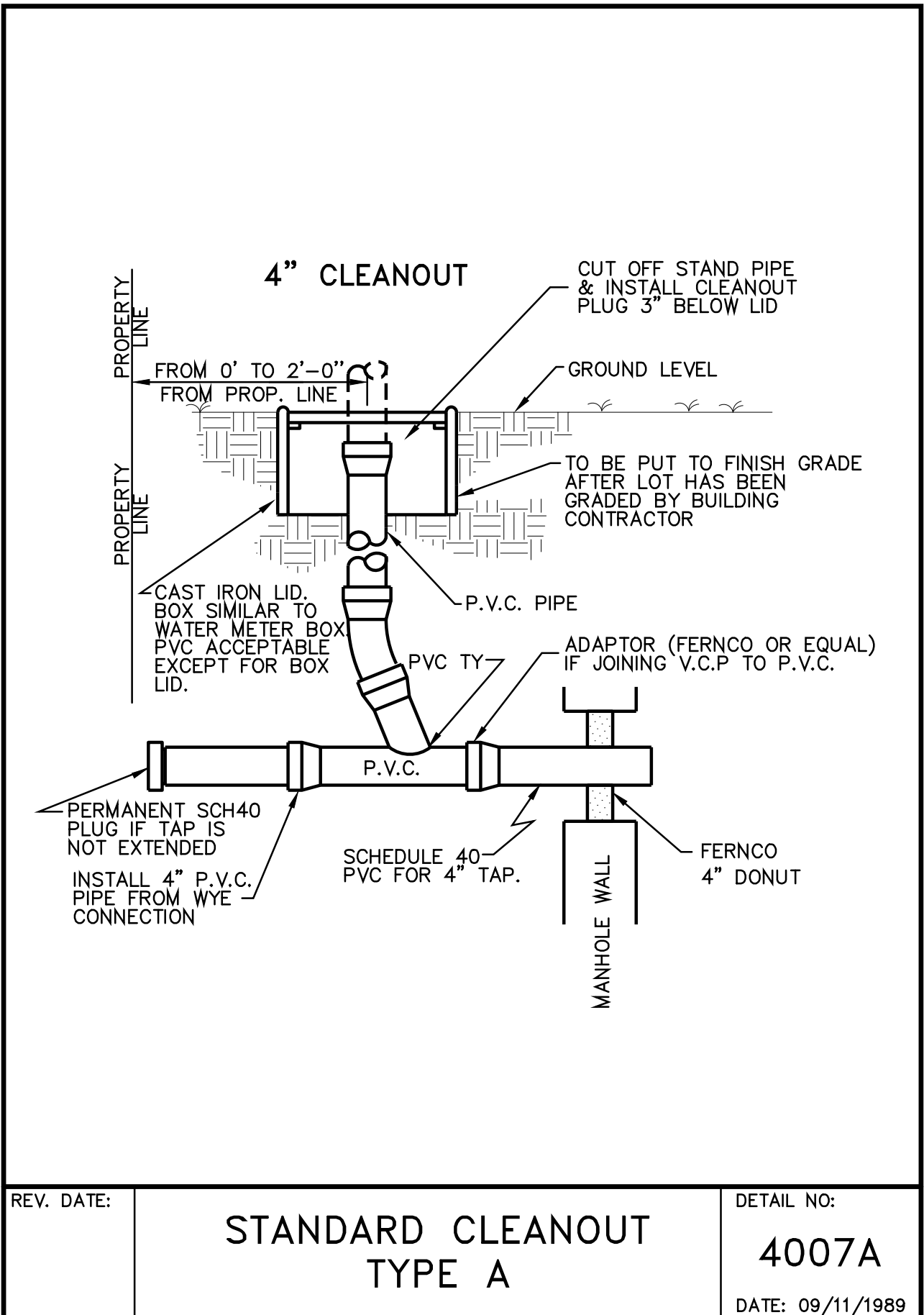
## STANDARD CLEANOUT TYPE A

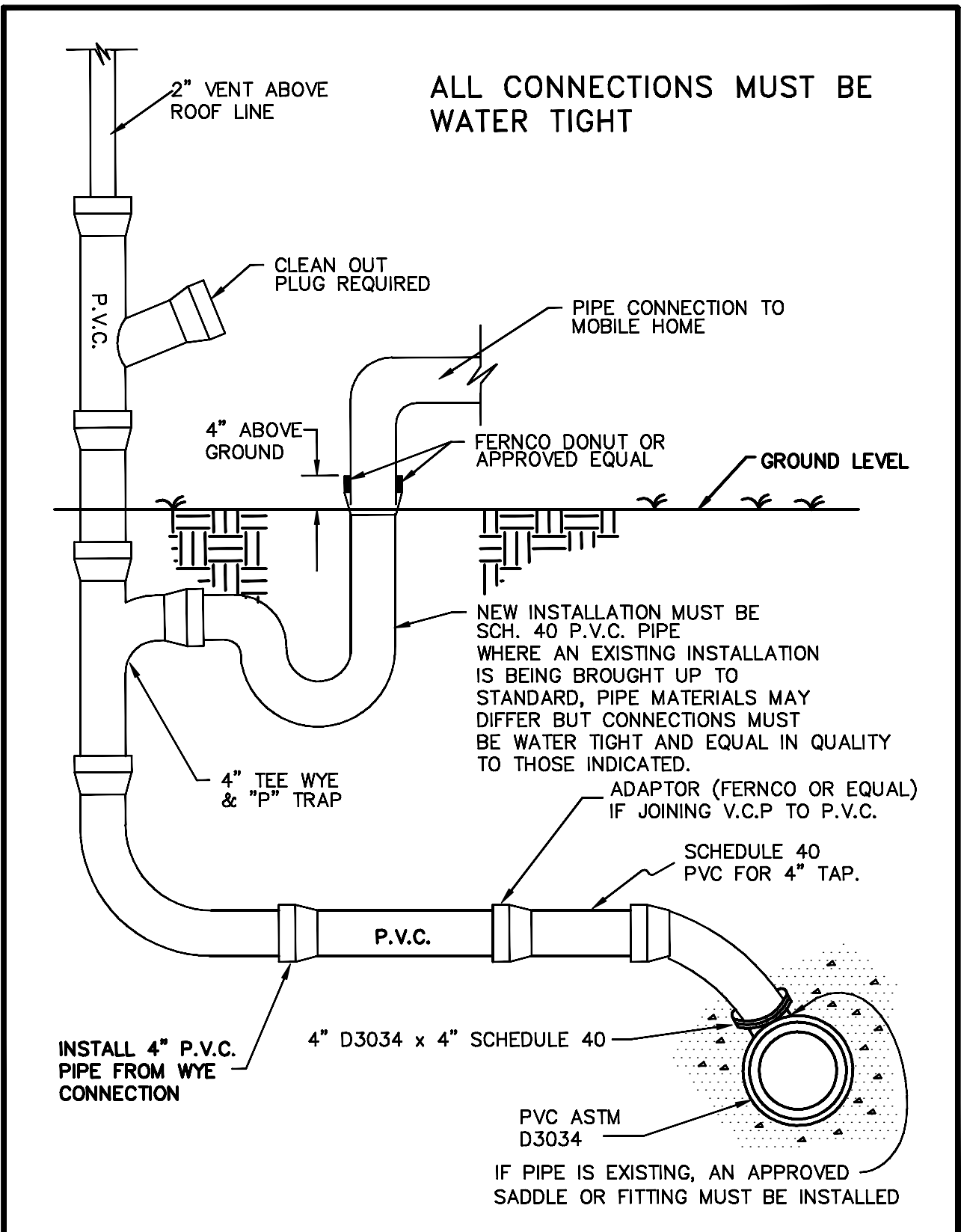
DETAIL NO:

4007

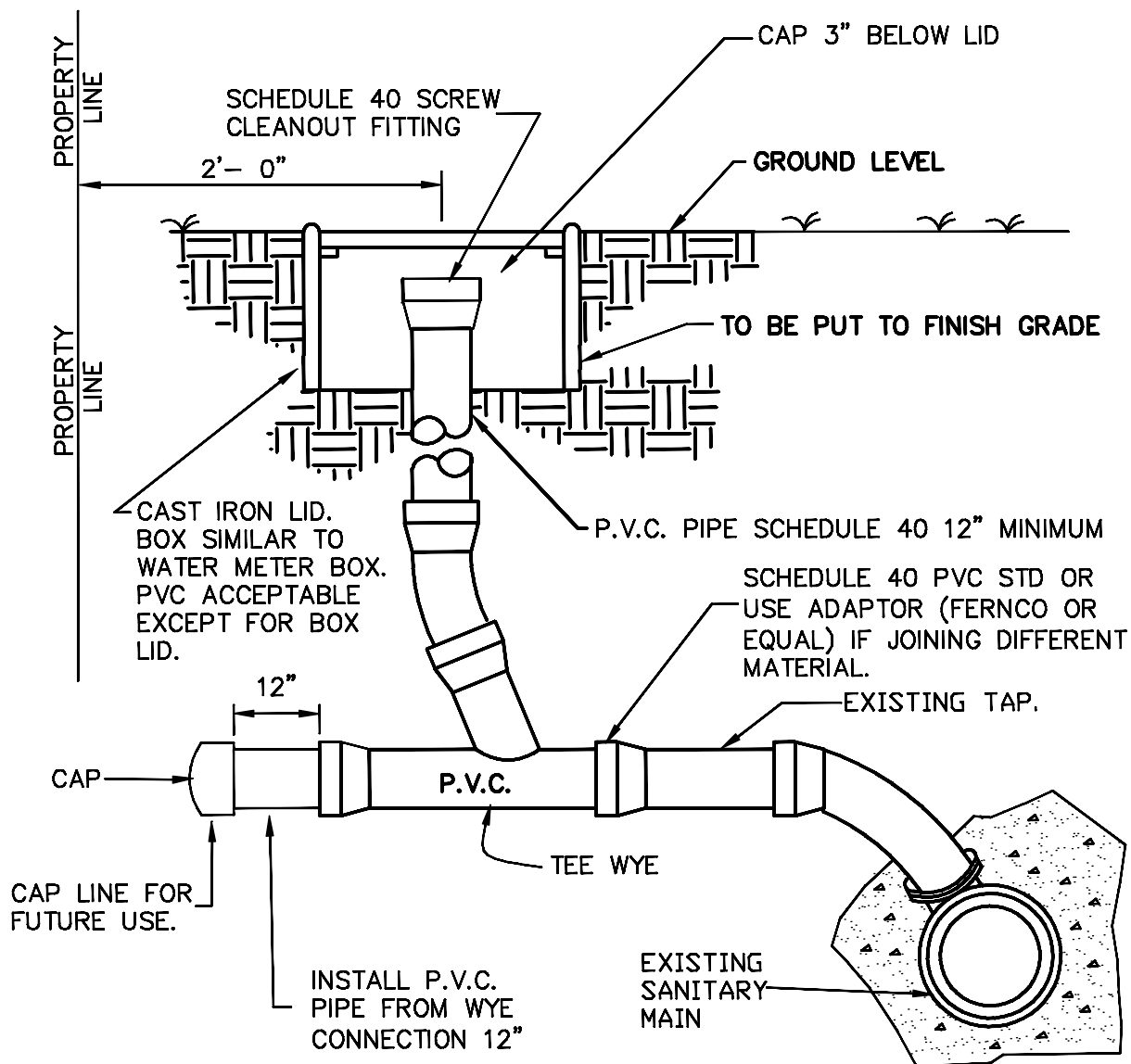
DATE: 10/13/1988







|            |                        |   |
|------------|------------------------|---|
| REV. DATE: | MOBILE HOME CONNECTION | DETAIL NO:<br>4007B<br>DATE: 01/10/1990 |
|------------|------------------------|---|



NTS

ALL NEW PVC PIPING TO BE SCHEDULE 40 OR ASTM 3034 (FOR 6" OR LARGER).

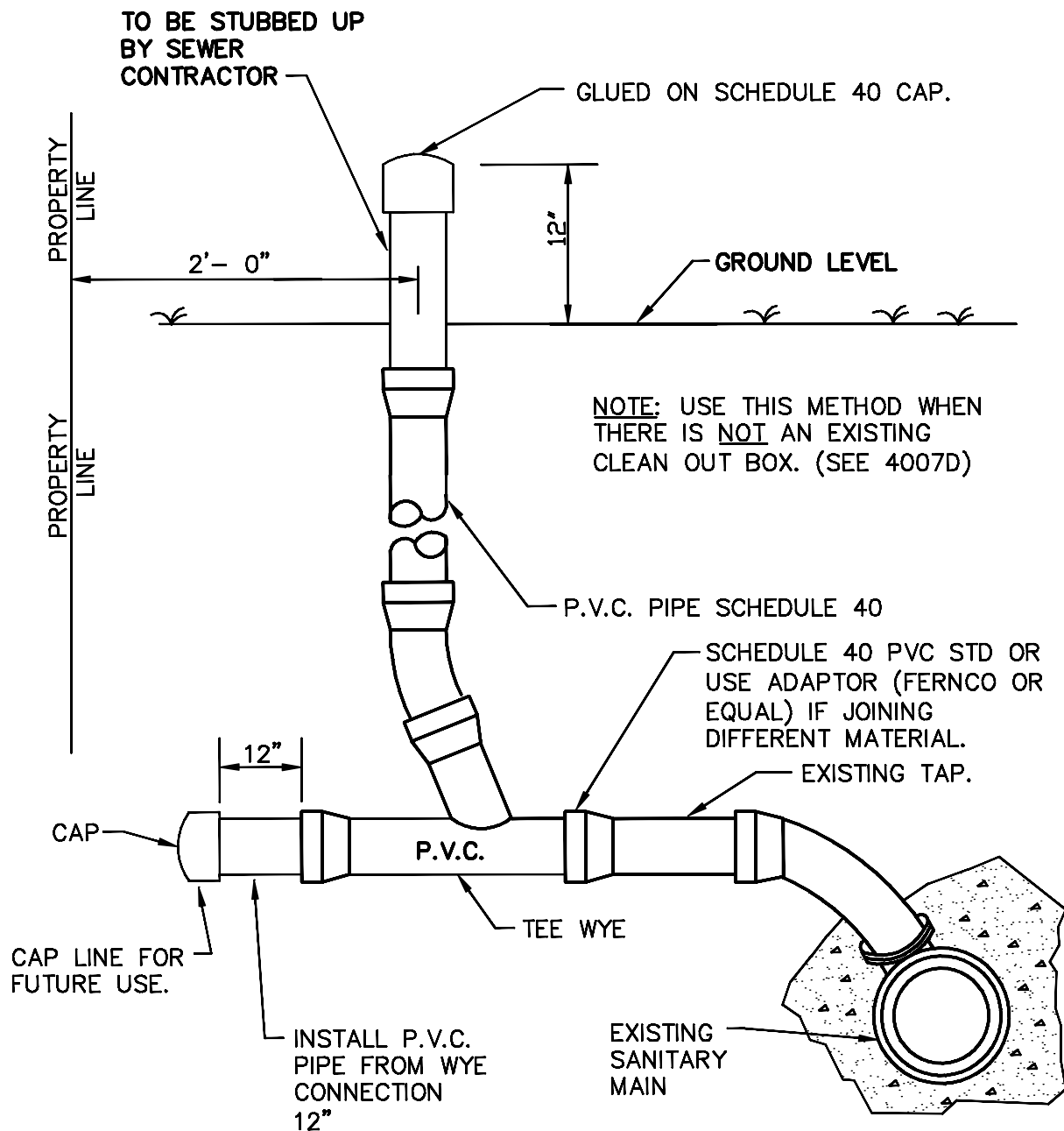
REV. DATE:  
08/30/2000

## EXISTING TAP CLOSURE WITH BOX

DETAIL NO:

4007D

DATE: 12/19/1996



NTS

ALL NEW PVC PIPING TO BE SCHEDULE 40 OR ASTM 3034 (FOR 6" OR LARGER).

REV. DATE:  
08/31/2000

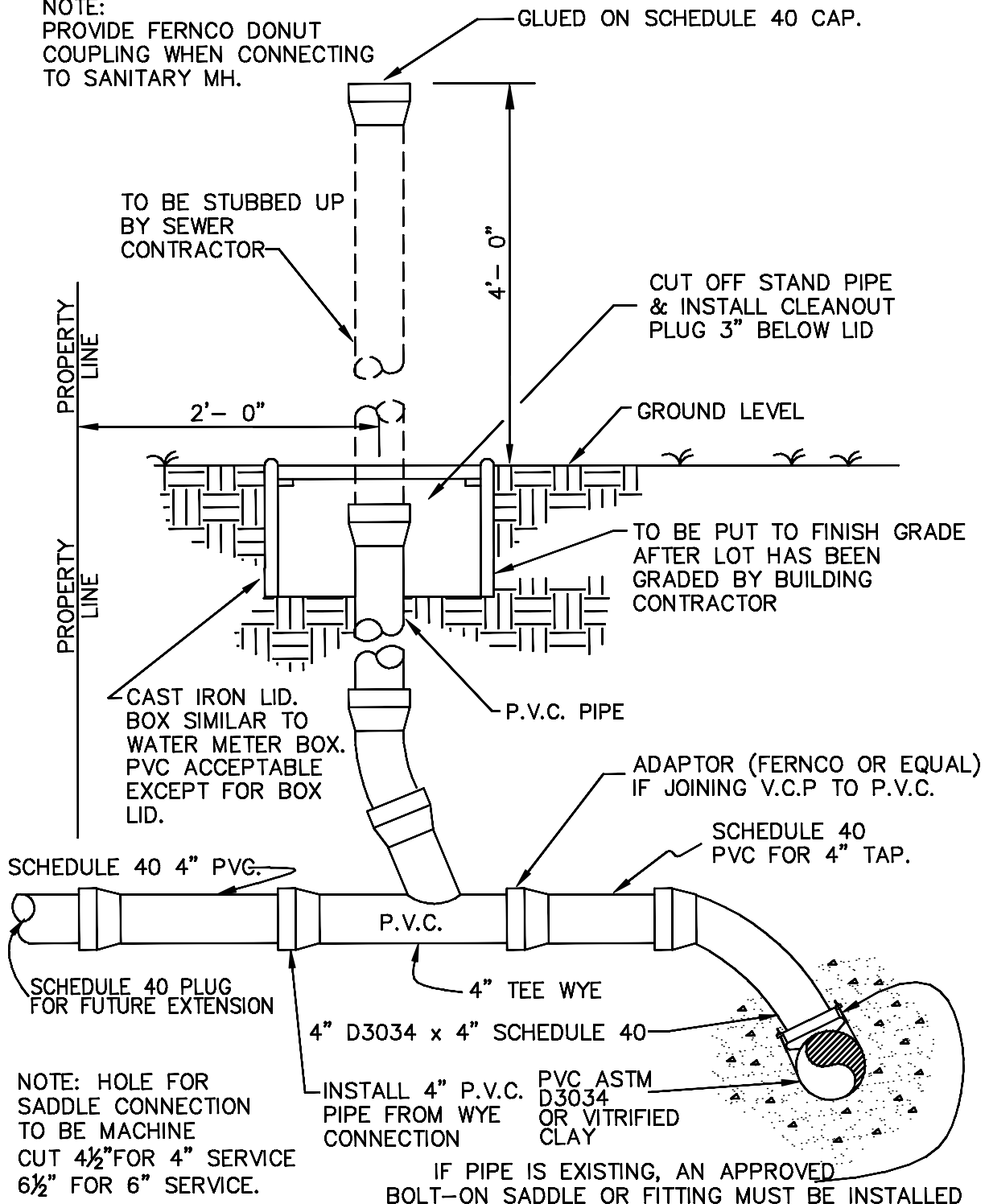
# EXISTING TAP CLOSURE WITHOUT BOX

DETAIL NO:

4007E

DATE: 12/19/96

NOTE:  
PROVIDE FERNCO DONUT  
COUPLING WHEN CONNECTING  
TO SANITARY MH.



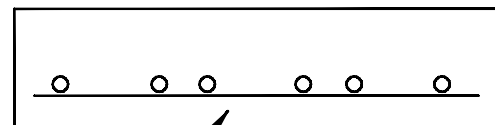
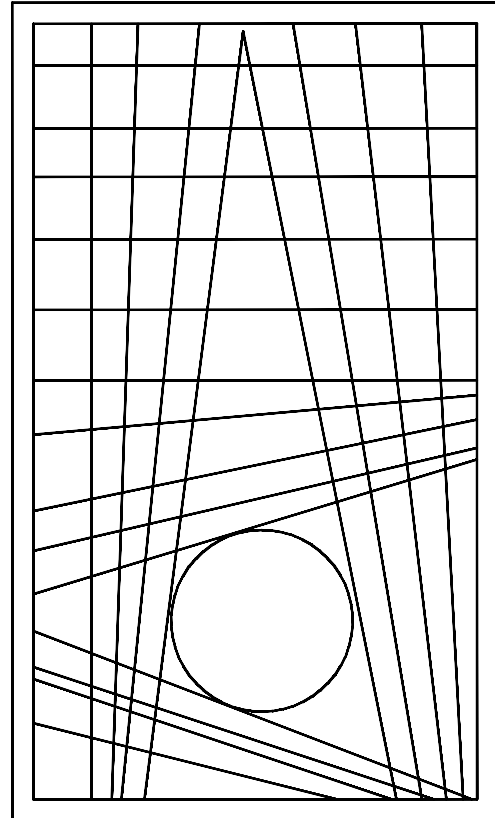
REV. DATE:

## STANDARD CLEANOUT WITH BOLT SADDLE

DETAIL NO:

4007F

DATE: 07/16/10



2" CLEAR

WORKING LOAD =  $16^K \left( \frac{P_y}{\text{WIDTH}} = 16^K \right)$

LOAD FACTOR = 2.0 (FOR IMPACT)

$P_y = 32^K$  (CONCENTRATED WHEEL LOAD)

$M_y = \frac{PL}{4}$  (FORMULA FOR BENDING MOMENT ULT.)

NOTE:

1. USE SHORT SPAN TO SELECT STEEL FOR ONE WAY SLAB.
2. THE STEEL IN SHORT DIRECTION TO BE PLACED 2" CLEAR FROM BOTTOM.
3. IF SLAB THICKNESS IS:
  - 8" USE #4@12" LONG WAY
  - 10" USE #4@9" LONG WAY
  - 12" USE #4@6" LONG WAY
4. SHIFT STEEL AT MANHOLE - DO NOT CUT.
5. THREE (3) INCHES CLEAR ON ALL SIDES.
6. ADD EIGHT (8) BARS AROUND MANHOLE

#### ONE WAY SLAB ( $L > 2W$ )

|                        | 6"    | 8"    | 10"   | 12" |
|------------------------|-------|-------|-------|-----|
| 4' WIDTH $M_y = 16^K$  | #5@4" |       |       |     |
| 5' WIDTH $M_y = 20^K$  | #6@4" | #5@4" |       |     |
| 6' WIDTH $M_y = 24^K$  |       | #5@3" | #5@4" |     |
| 7' WIDTH $M_y = 28^K$  |       | #6@3" | #6@4" |     |
| 8' WIDTH $M_y = 32^K$  |       | #6@3" | #6@4" |     |
| 9' WIDTH $M_y = 36^K$  |       | #6@3" | #6@4" |     |
| 10' WIDTH $M_y = 40^K$ |       | #7@3" | #6@3" |     |

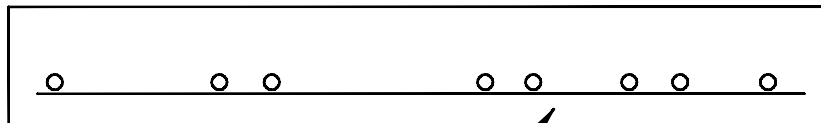
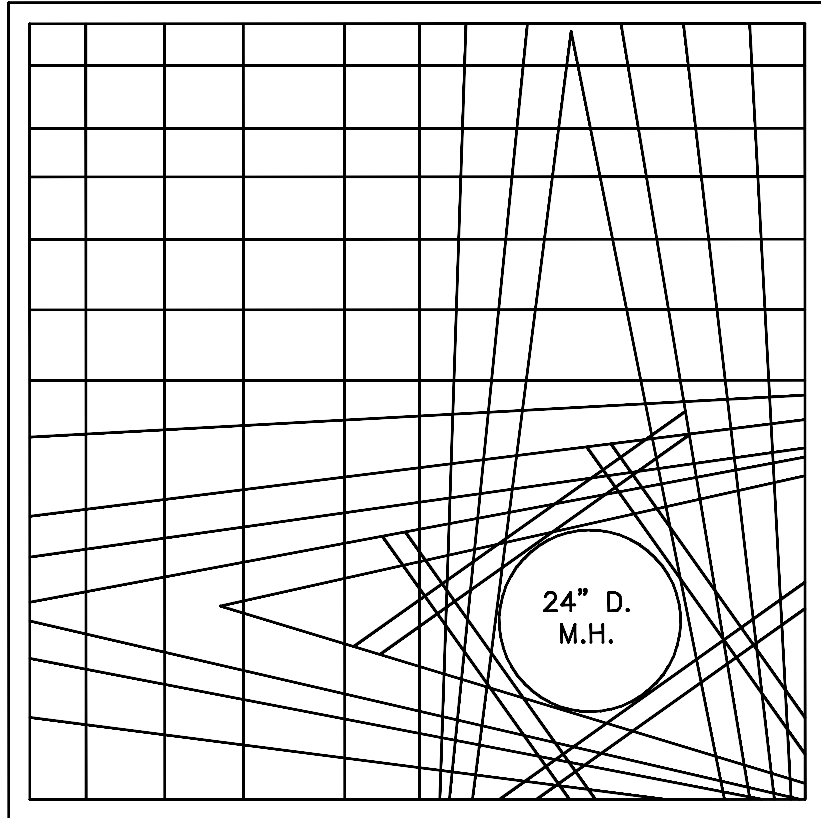
DETAIL NO:

ONE WAY SLAB  
( $L \geq 2W$ )

DETAIL NO:

4008

DATE: 10/04/1988



NOTE:

1. THREE (3) INCHES CLEAR ON ALL SIDES.
2. SHIFT STEEL AT MANHOLE - DO NOT CUT.
3. ADD EIGHT (8) BARS AROUND MANHOLE.
4. MANHOLE IS 24" DIA.

2" CLEAR

TWO WAY SLAB (SQUARE)

|     |                       | 6"    | 8"    | 10"   | 12"   |
|-----|-----------------------|-------|-------|-------|-------|
| 4'  | WIDTH $M_y = 8$ K-ft  | #5@4" | #5@6" |       |       |
| 5'  | WIDTH $M_y = 10$ K-ft |       | #6@6" | #5@6" |       |
| 6'  | WIDTH $M_y = 12$ K-ft |       | #6@6" | #5@6" |       |
| 7'  | WIDTH $M_y = 14$ K-ft |       | #5@3" | #6@6" |       |
| 8'  | WIDTH $M_y = 16$ K-ft |       | #5@3" | #6@6" |       |
| 9'  | WIDTH $M_y = 18$ K-ft |       | #6@4" | #5@4" |       |
| 10' | WIDTH $M_y = 20$ K-ft |       |       | #5@3" | #6@6" |
|     |                       | d=3"  | d=5"  | d=7"  | d=9"  |

MOMENT EACH WAY = STEEL USED EACH WAY

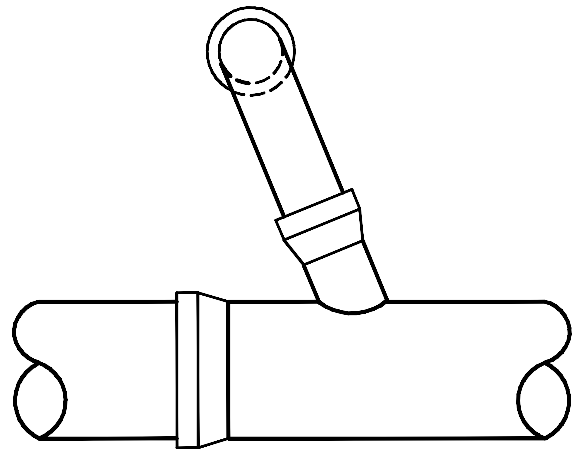
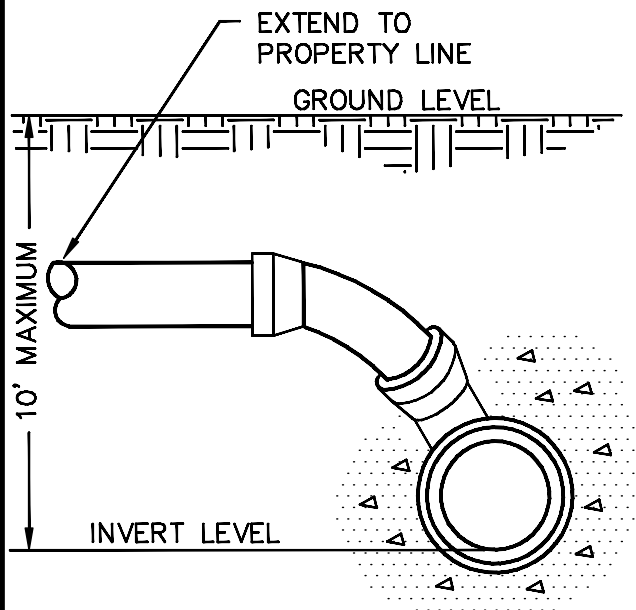
REV. DATE:

TWO WAY SLAB  
(SQUARE)

DETAIL NO:

4009

DATE: 10/04/1988



NO CONCRETE REQUIRED  
ON STANDARD SERVICE  
CONNECTIONS UNLESS  
WYE WAS OMITTED AND  
TAPPING SADDLE IS USED

NOTE: COMPACT TO MINIMUM OF 95%  
STANDARD PROCTOR ONE FOOT  
EITHER SIDE OF SERVICE  
CONNECTION.

REV. DATE:

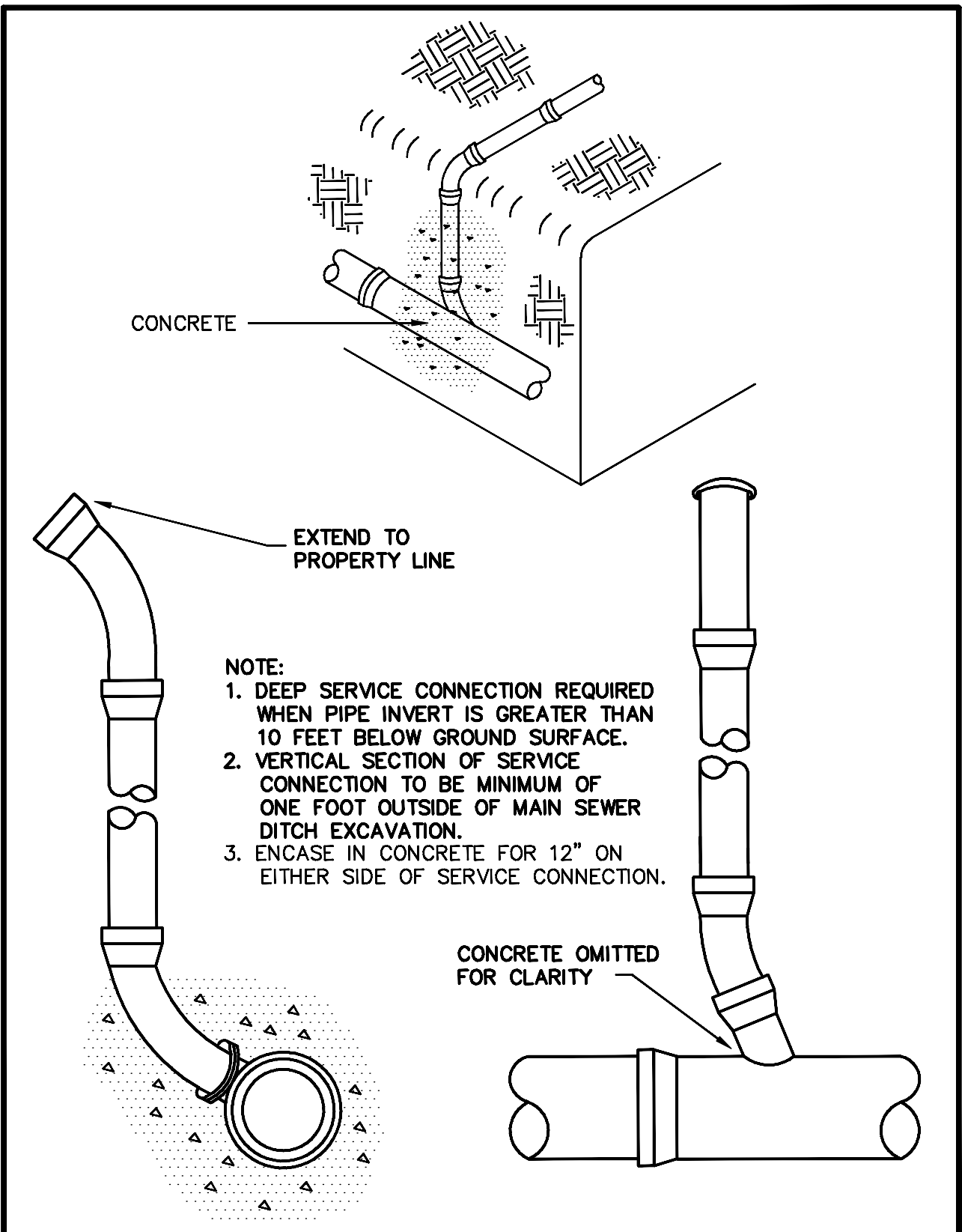
## STANDARD SERVICE CONNECTION

DETAIL NO:

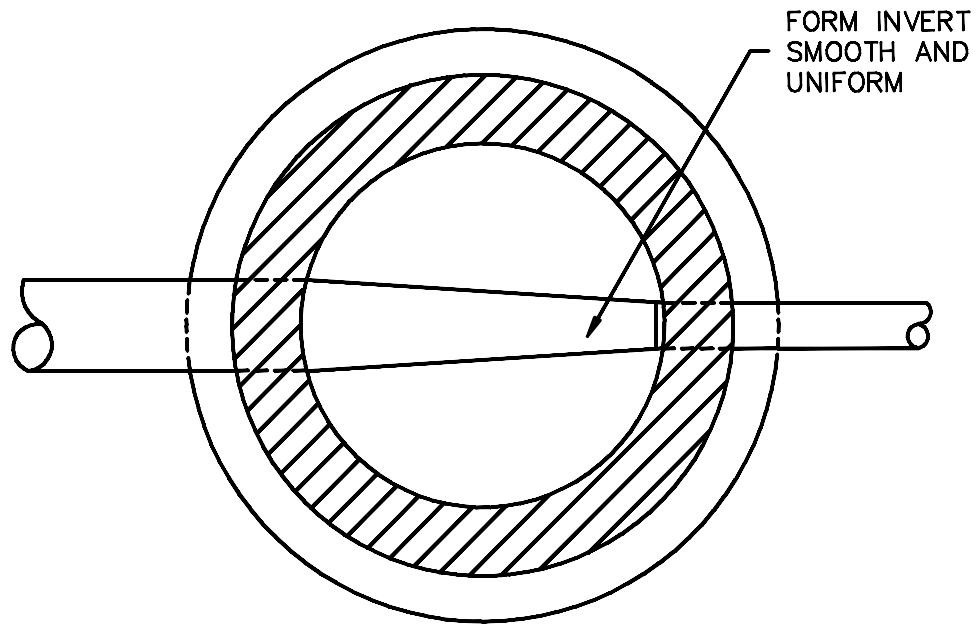
4010

DATE: 09/29/1988

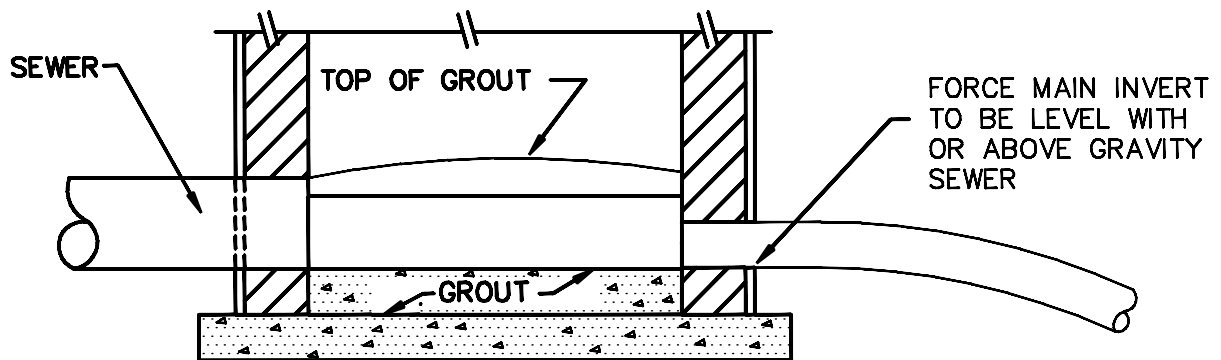




|            |                         |                  |
|------------|-------------------------|------------------|
| DETAIL NO: | DEEP SERVICE CONNECTION | DETAIL NO:       |
|            |                         | 4011             |
|            |                         | DATE: 10/13/1988 |



PLAN



SECTION

NOTE:

FORCE MAIN SHALL BE INSTALLED LEVEL OR RISING FROM PUMP UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.

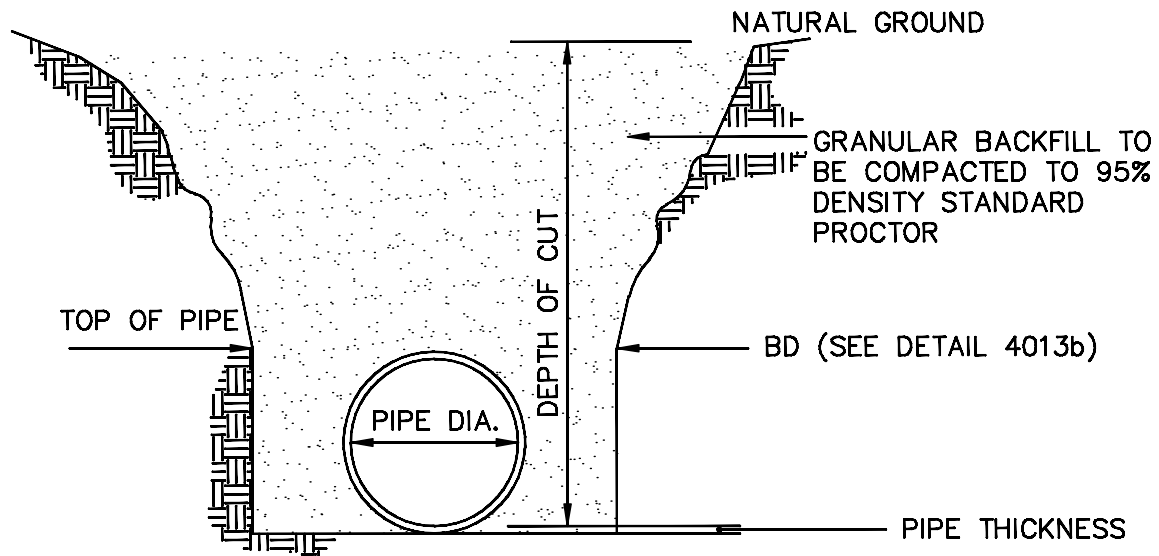
REV. DATE:

FORCE MAIN CONNECTION  
TO STANDARD MANHOLE

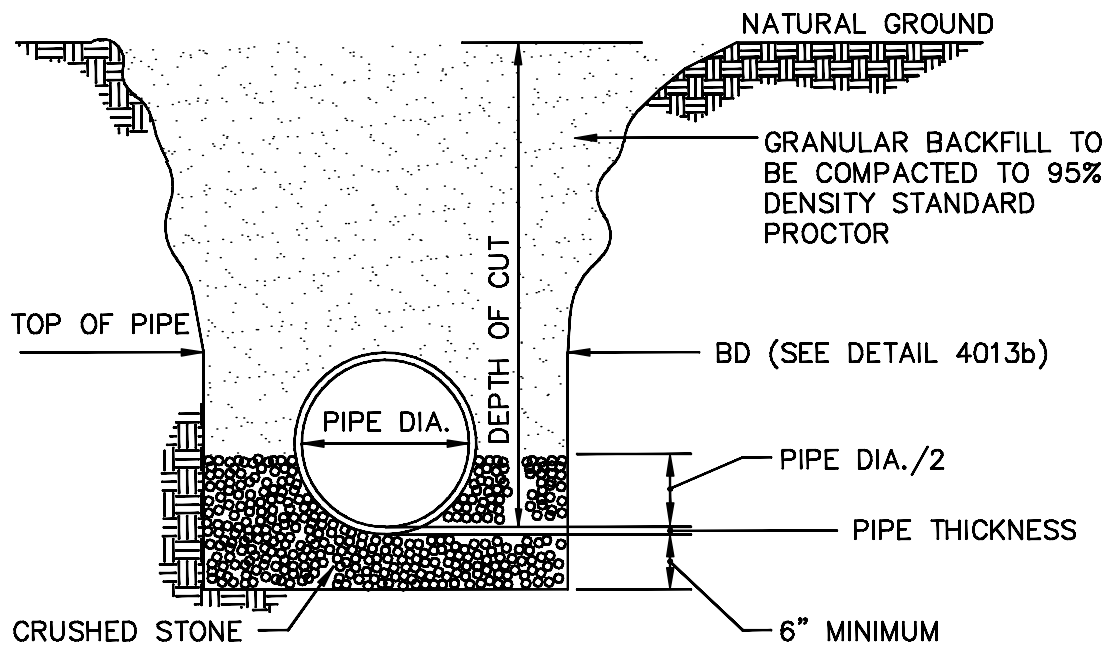
DETAIL NO:

4012

DATE: 09/29/1988



### CLASS "C" BEDDING



### CLASS "B" BEDDING

- NOTES: 1. CLASS "B" BEDDING REQ'D FOR PVC PIPE  
2. SANITARY SEWER AND STORM SEWER BEDDING REQUIREMENTS ARE THE SAME.

REV. DATE:

BEDDING FOR PIPE

DETAIL NO:

4013

DATE: 06/23/1999

| PIPE DIAMETER<br>INCHES | CLASS OF PIPE | BD MAXIMUM<br>(SEE DETAIL 4013) | DEPTH OF CUT-INCHES |           |
|-------------------------|---------------|---------------------------------|---------------------|-----------|
|                         |               |                                 | CL "B"              | CL "C"    |
| 8                       | PVC           | 2'-2"                           | 20                  |           |
| 10                      | PVC           | 2'-4"                           | 20                  |           |
| 12                      | PVC           | 2'-6"                           | 20                  |           |
| 15                      | II<br>III     | 2'-10"                          |                     | 18<br>40+ |
| 18                      | II<br>III     | 3'-2"                           |                     | 23<br>40+ |
| 24                      | II<br>III     | 4'-6"                           | 18<br>40+           | 12<br>22  |
| 30                      | II<br>III     | 5'-1"                           | 19<br>40+           | 13<br>22  |
| 36                      | III<br>IV     | 6'-8"                           | 25<br>40+           | 18<br>34  |
| 42                      | III<br>IV     | 7'-3"                           | 24<br>40+           | 19<br>32  |
| 48                      | III<br>IV     | 7'-10"                          | 26<br>40+           | 19<br>34  |
| 54                      | III<br>IV     | 8'-5"                           | 27<br>40+           | 20<br>34  |
| 60                      | III<br>IV     | 9'-0"                           | 29<br>40+           | 20<br>34  |
| 66                      | III<br>IV     | 9'-7"                           | 27<br>40+           | 21<br>36  |
| 72                      | III<br>IV     | 10'-2"                          | 29<br>40+           | 23<br>34  |
| 78                      | III<br>IV     | 10'-9"                          | 30<br>40+           | 23<br>37  |
| 84                      | III<br>IV     | 11'-4"                          | 32<br>40+           | 23<br>37  |
| 90                      | III<br>IV     | 11'-11"                         | 29<br>40+           | 24<br>40  |
| 96                      | III<br>IV     | 12'-6"                          | 32<br>40+           | 25<br>37  |
| 102                     | III<br>IV     | 13'-2"                          | 31<br>40+           | 25<br>39  |

**NOTE:**

THE TRENCH WIDTH SHOWN IN THE TABLE AS "BD MAXIMUM" IS CRITICAL AND IS THE MAXIMUM WIDTH ALLOWABLE FOR THE DEPTH OF CUT SHOWN. SHOULD THE CONTRACTOR EXCEED THE "BD MAXIMUM", THE CONTRACTOR SHALL BEAR ANY AND ALL ADDITIONAL COST. IF THE INCREASED "BD" REQUIRES THE INSTALLATION OF A HIGHER CLASS OF PIPE AND/OR BEDDING, THE CONTRACTOR SHALL INSTALL THE NECESSARY CLASS OF PIPE AND BEDDING AT NO ADDITIONAL COST TO THE CITY OF ALBANY.

CRUSHED STONE GRADATION SHALL BE 95 % PASSING 3/4" SIEVE AND 95 % RETAINED ON NUMBER 4 SIEVE.

**DESIGN BASED ON COHESIONLESS SANDY SOIL WITH UNIT WEIGHT OF 120 POUNDS PER CUBIC FOOT.**

REV. DATE:  
08/21/2000

**MAXIMUM BEDDING  
WIDTH FOR CONCRETE  
PIPE & PVC**

DETAIL NO:

**4013B**

DATE: 06/23/1999

### MINIMUM GRADE

| PIPE SIZE<br>I.D. | % SLOPE |
|-------------------|---------|
| 6"                | .50     |
| 8"                | .40     |
| 10"               | .28     |
| 12"               | .22     |
| 15"               | .15     |
| 18"               | .12     |
| 21"               | .10     |
| 24"               | .08     |

### P.V.C. EXTRA STRENGTH SDR-35, ASTM D 3034 P.V.C MINIMUM WALL THICKNESS

| PIPE SIZE<br>I.D. | MIN. WALL THICKNESS |
|-------------------|---------------------|
| 6"                | .180                |
| 8"                | .240                |
| 10"               | .300                |
| 12"               | .360                |

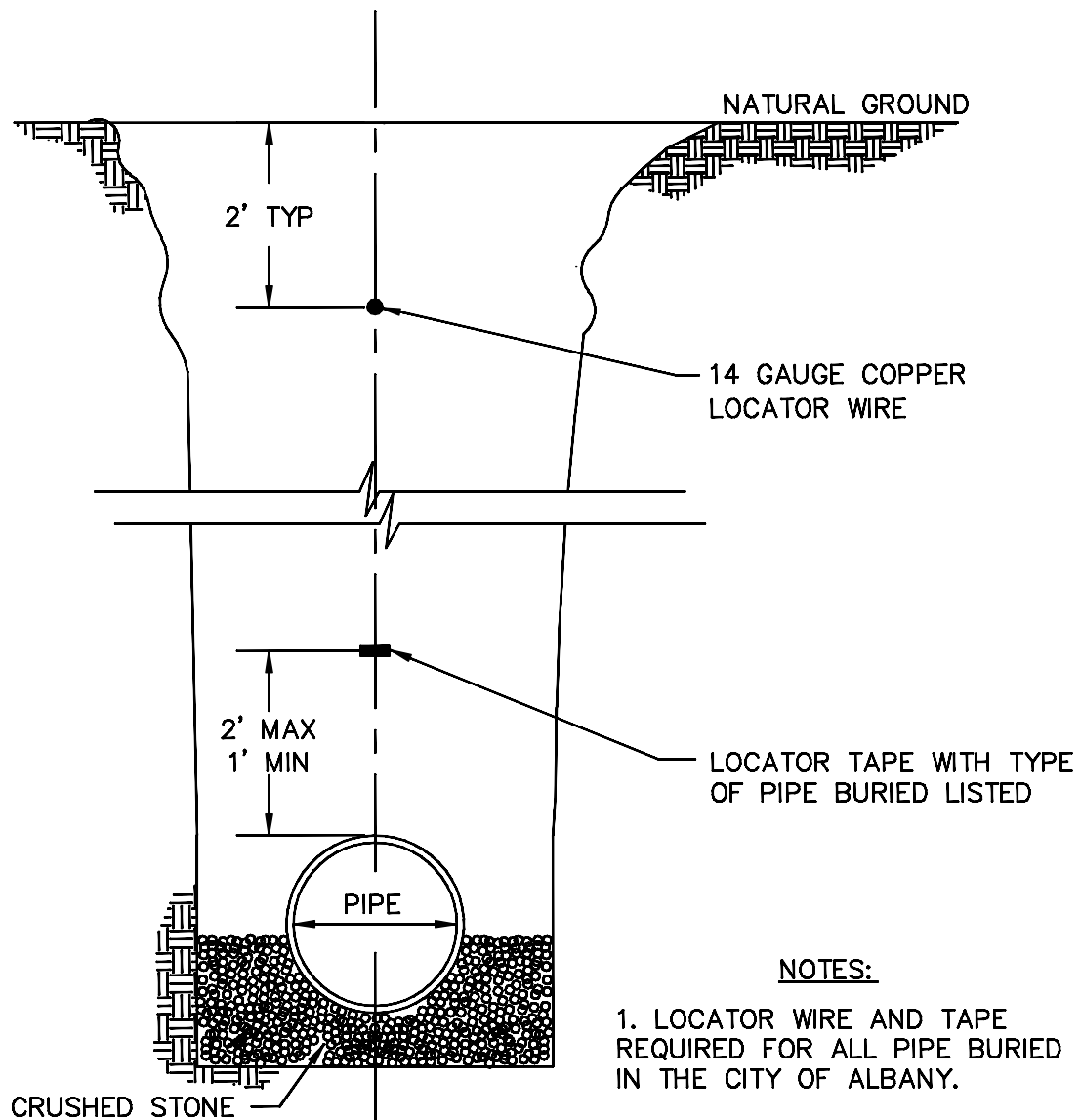
REV. DATE:  
08/21/2000

### MINIMUM PIPE GRADES & WALL THICKNESS FOR PVC PIPE

DETAIL NO:

4013C

DATE: 06/23/1999



NOTES:

1. LOCATOR WIRE AND TAPE REQUIRED FOR ALL PIPE BURIED IN THE CITY OF ALBANY.
2. WHEN DEPTH IS LESS THAN 48", PLACE LOCATOR WIRE & TAPE TOGETHER.

TYPICAL TRENCH INSTALLATION  
N.T.S.

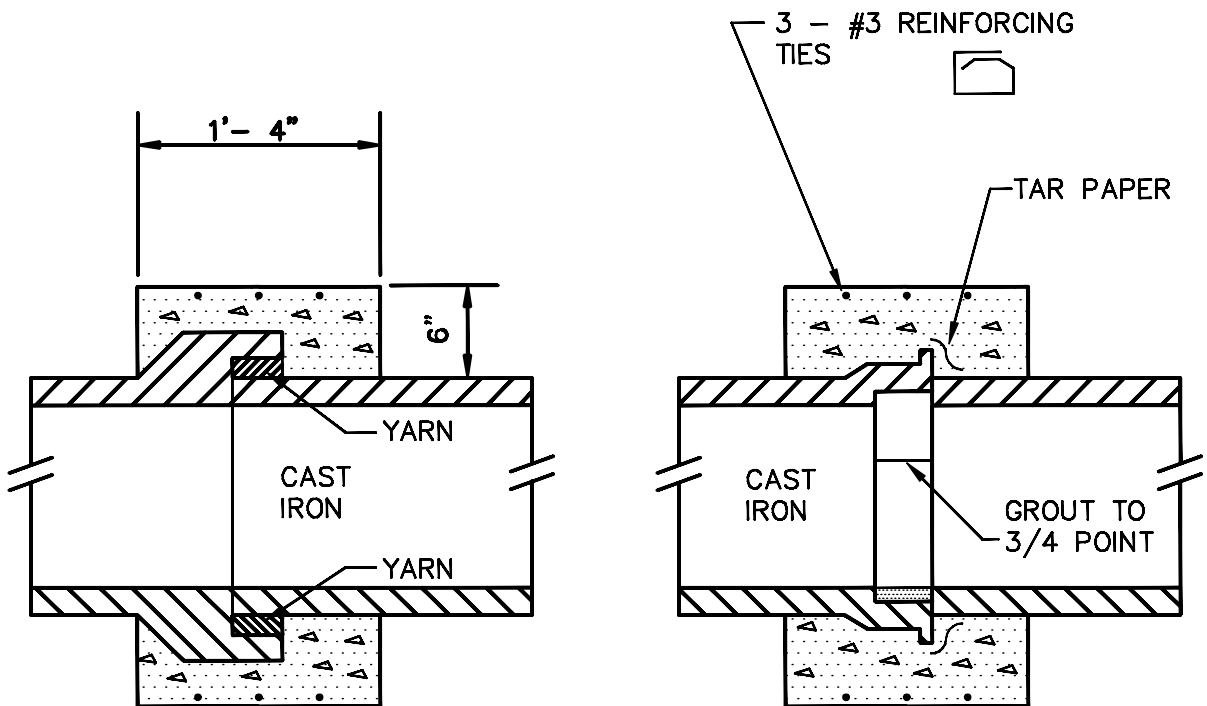
REV. DATE:  
10/10/2002

LOCATOR WIRE &  
TAPE FOR PIPE

DETAIL NO:

4013E

DATE: 04/05/2002



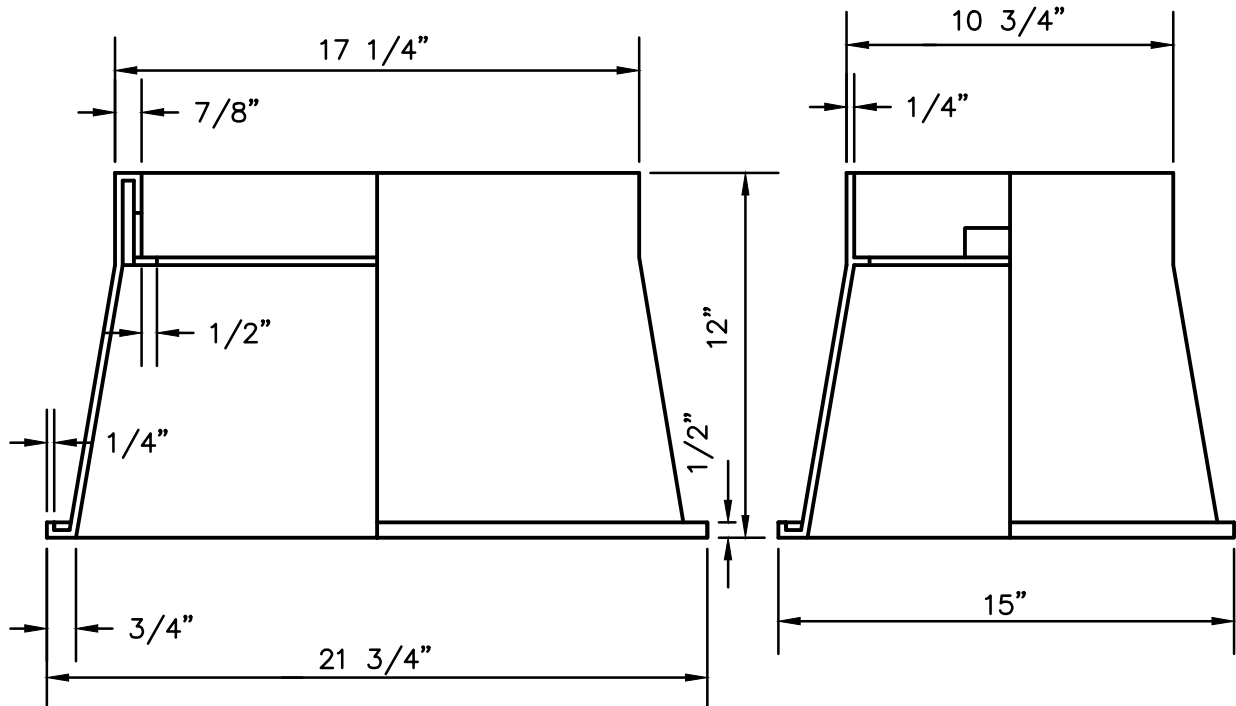
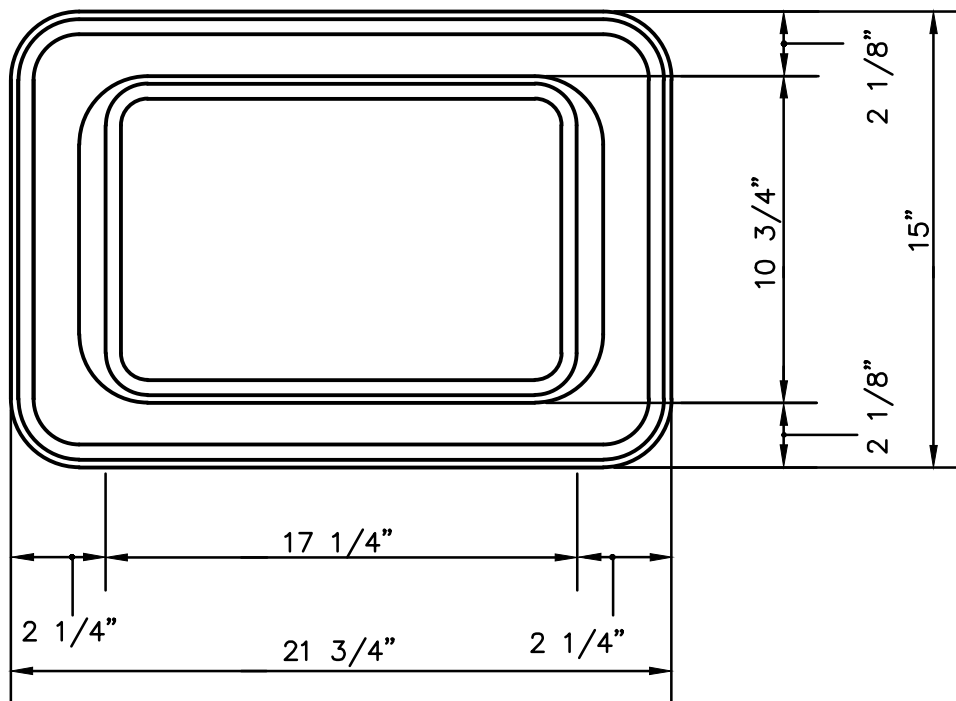
REV. DATE:

# SQUARE CONCRETE COLLAR DETAIL

DETAIL NO:

4014

DATE: 09/29/1988



NOTE: LID FOR BOX SHALL BE CAST IRON IN TRAFFIC AREAS UNLESS OTHERWISE APPROVED

REV. DATE:

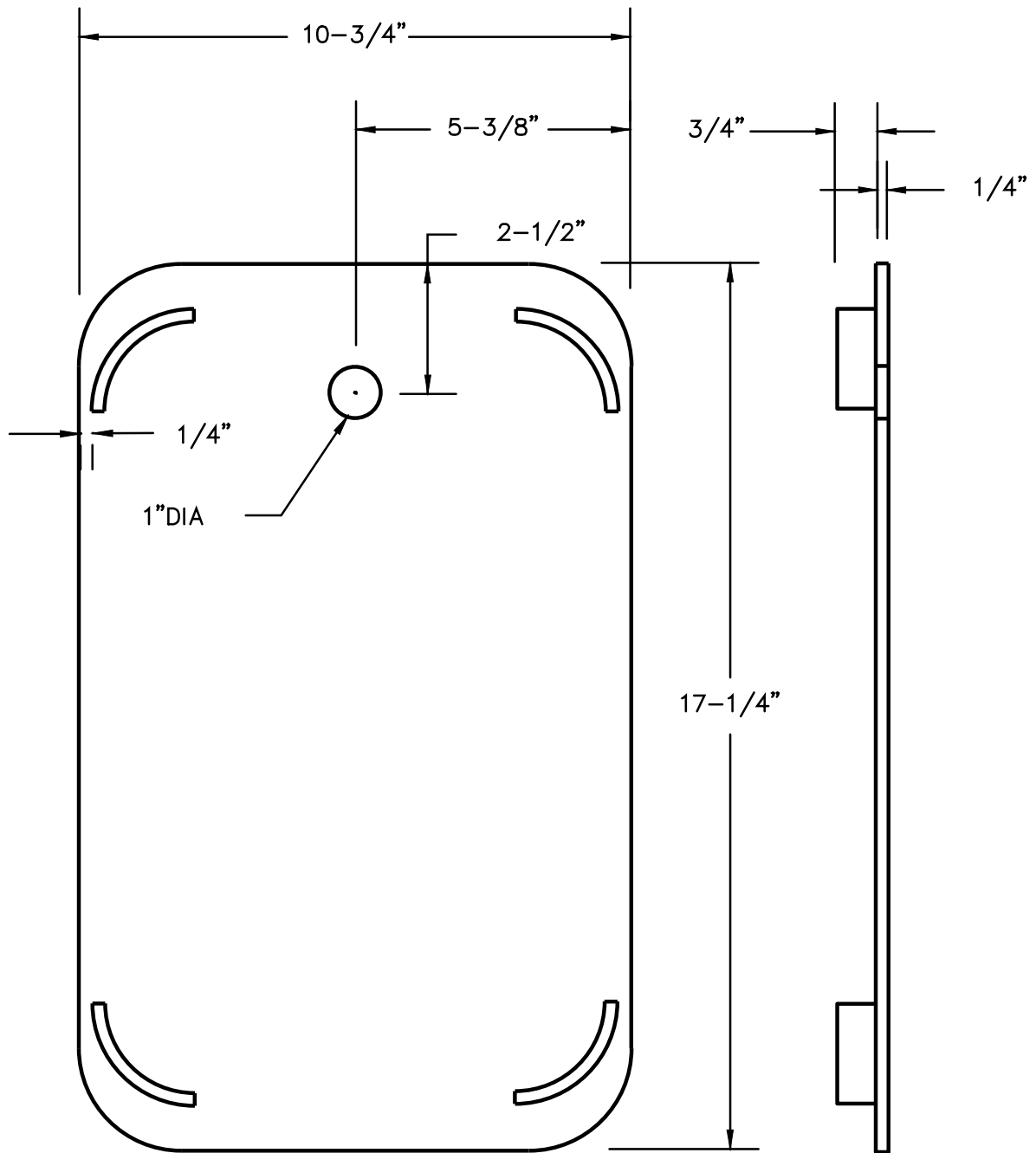
TYPICAL CLEAN-OUT BOX

DETAIL NO:

4015A

DATE: 03/07/1994





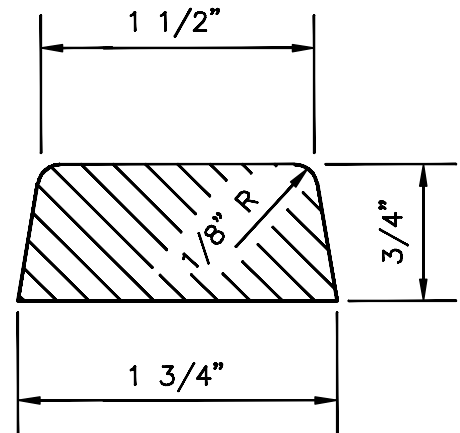
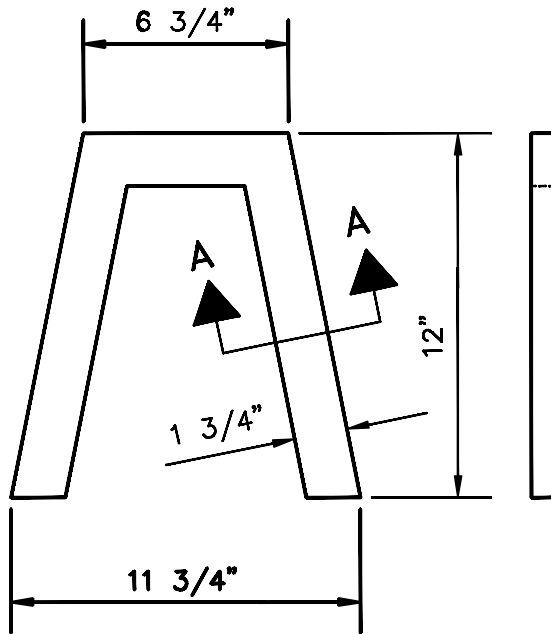
REV. DATE:

TYPICAL CLEAN-OUT  
BOX COVER

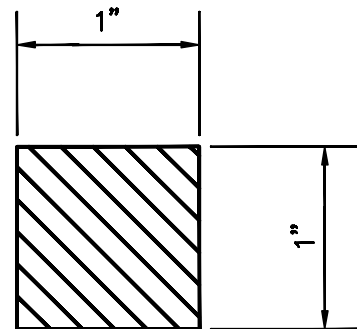
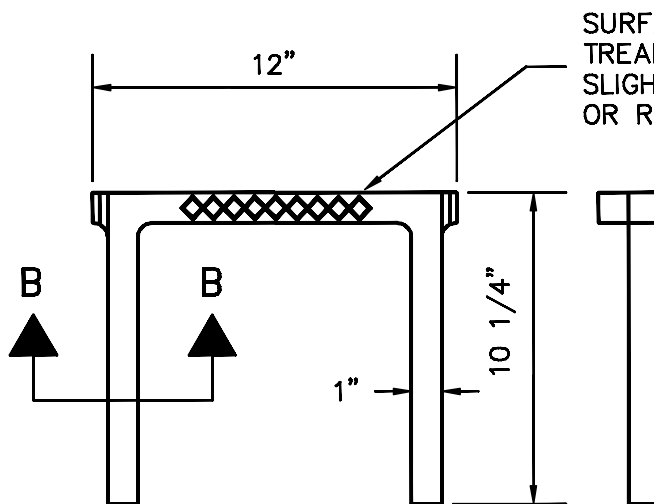
DETAIL NO:

4015B

DATE: 03/07/1994



SECTION A-A



SECTION B-B

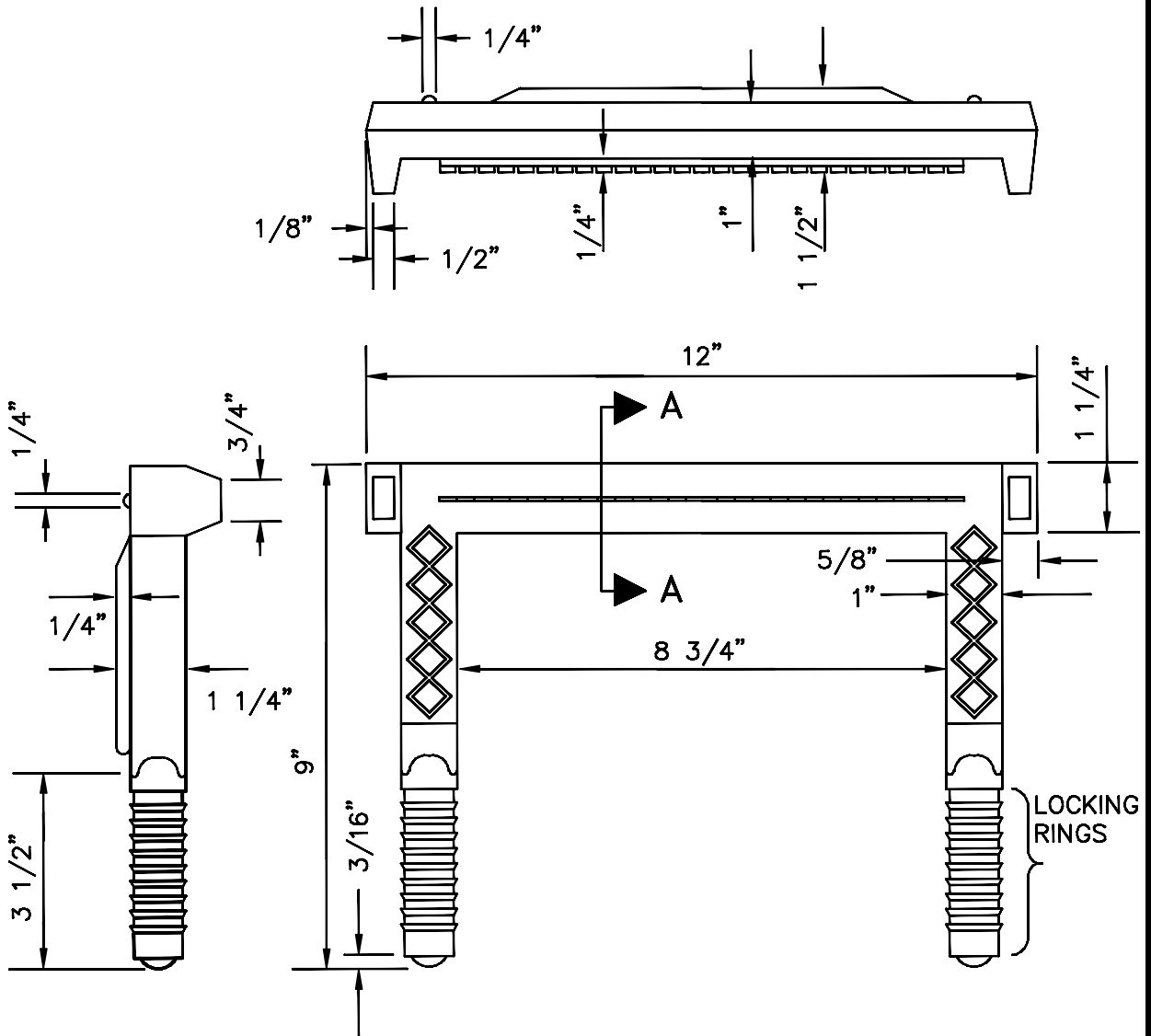
REV. DATE:

# CAST IRON MANHOLE STEP

DETAIL NO:

**4016**

DATE: 09/29/1988



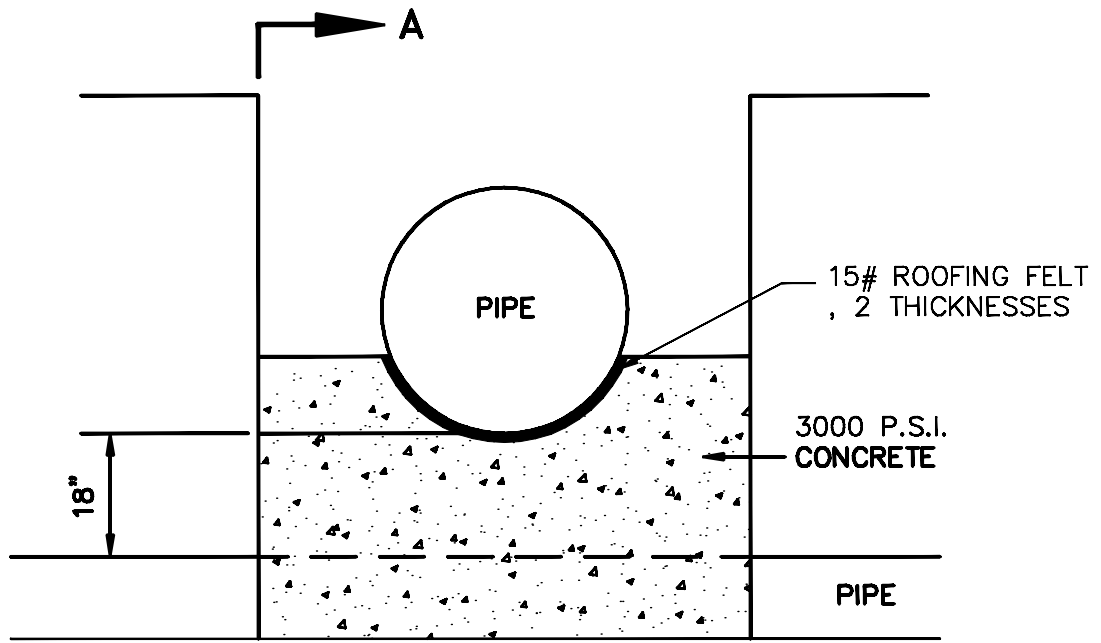
REV. DATE:

# POLYPROPYLENE MANHOLE STEP

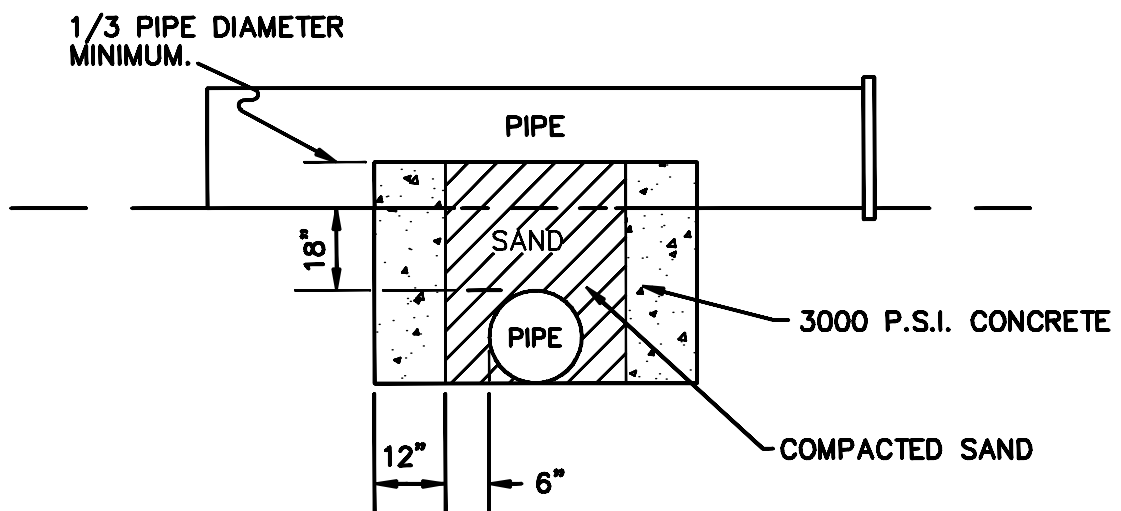
DETAIL NO:

4017

DATE: 09/29/1988



END VIEW  
NTS



SECTION A-A  
NTS

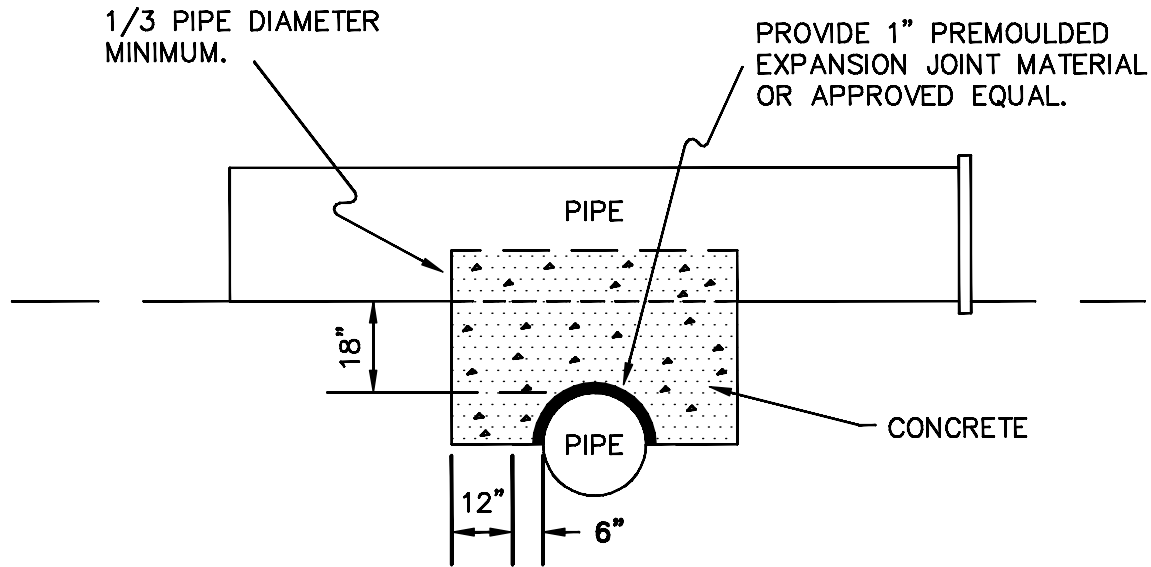
REV. DATE:  
08/21/2000

CONCRETE ENCASEMENT —  
PIPE CLEARANCE < 18"

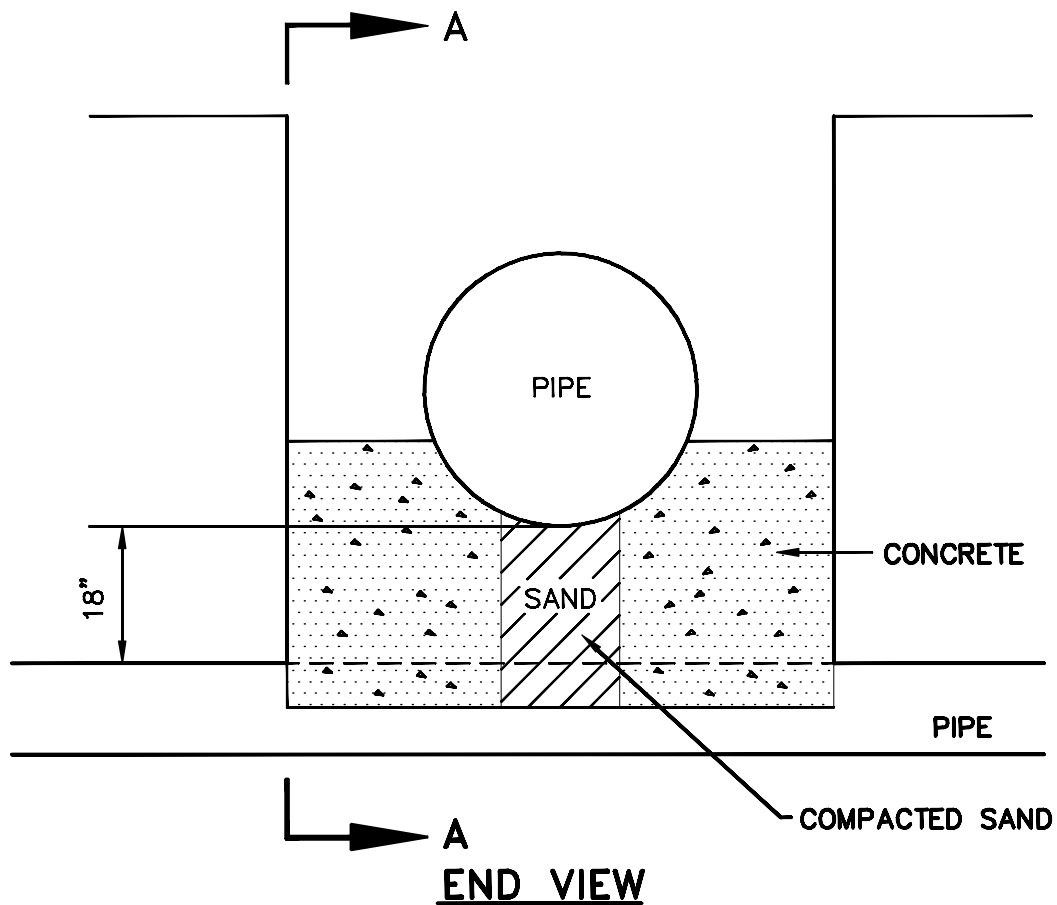
DETAIL NO:

**4018**

DATE: 10/13/1988



SECTION A-A



REV. DATE:

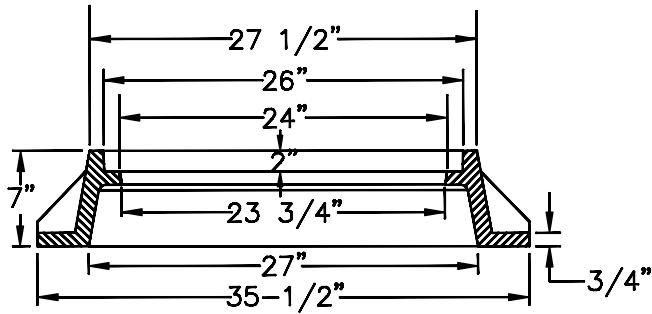
CONCRETE ENCASEMENT—  
PIPE CLEARANCE > 18"

DETAIL NO:

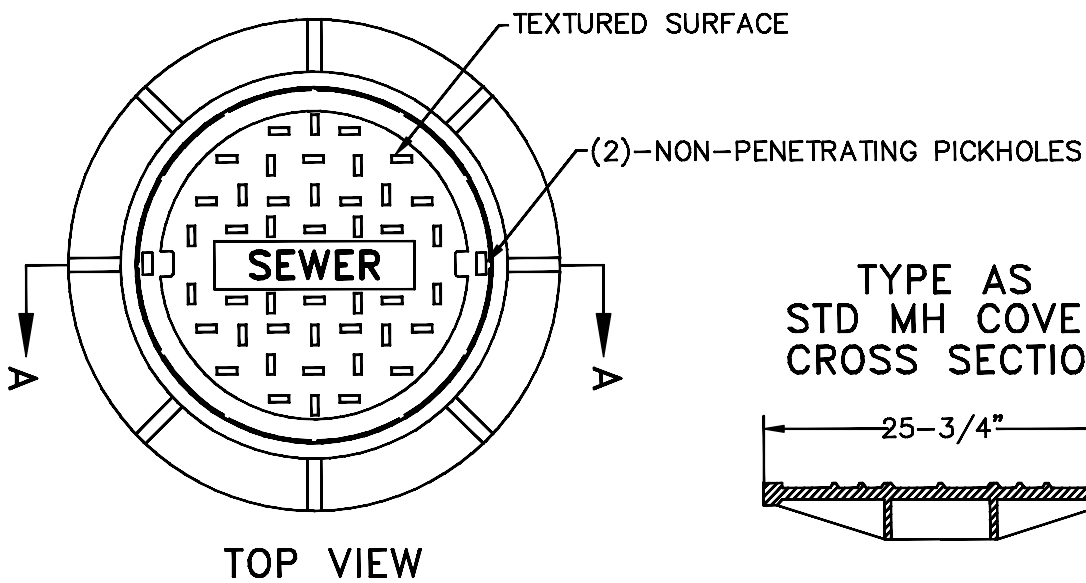
4018A

DATE: 02/17/2002

# STANDARD MANHOLE RING AND COVER



SECTION A-A



TOP VIEW

NOTE:  
REFER TO U.S.F.  
STANDARD 227

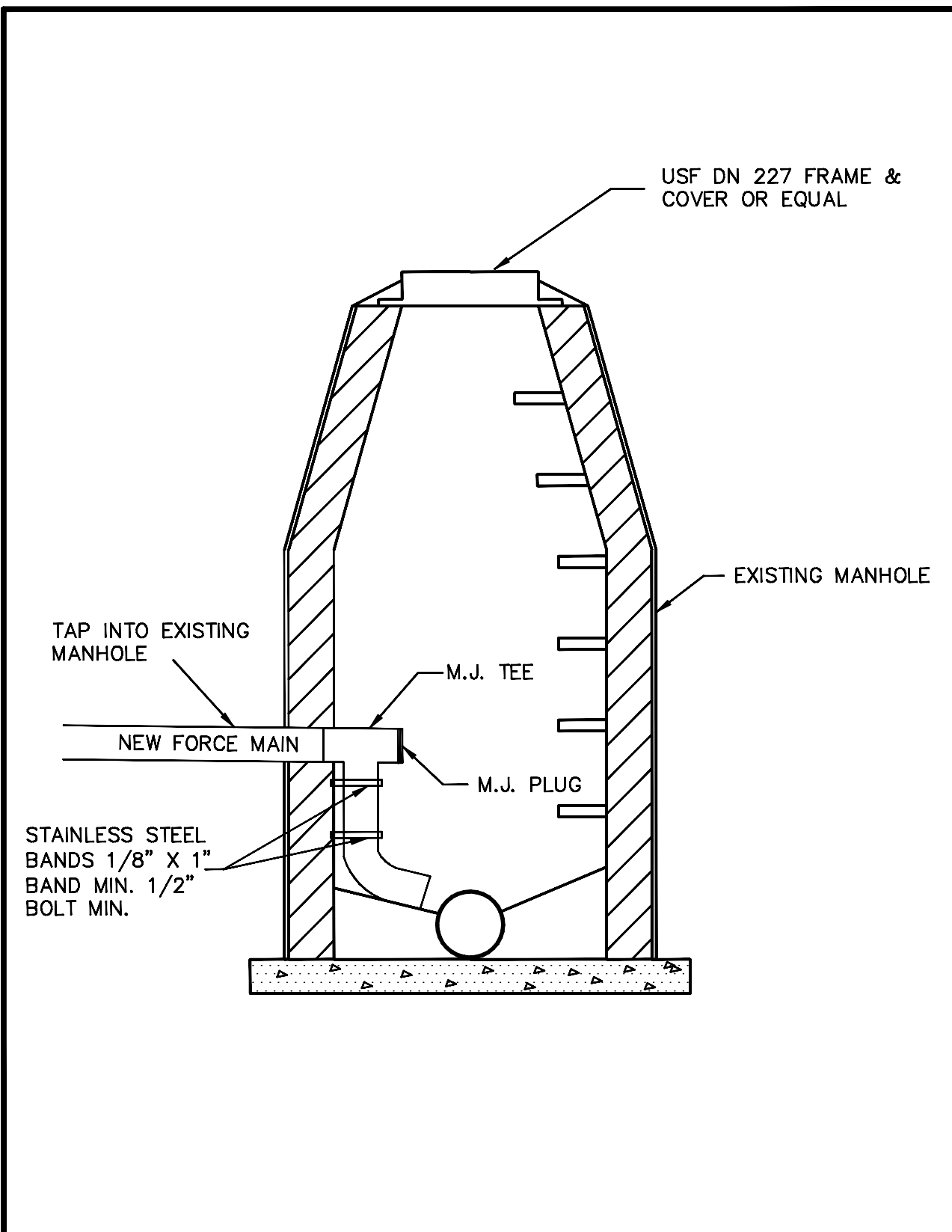
REV. DATE:  
06/10/2009

STANDARD MANHOLE  
FRAME & COVER

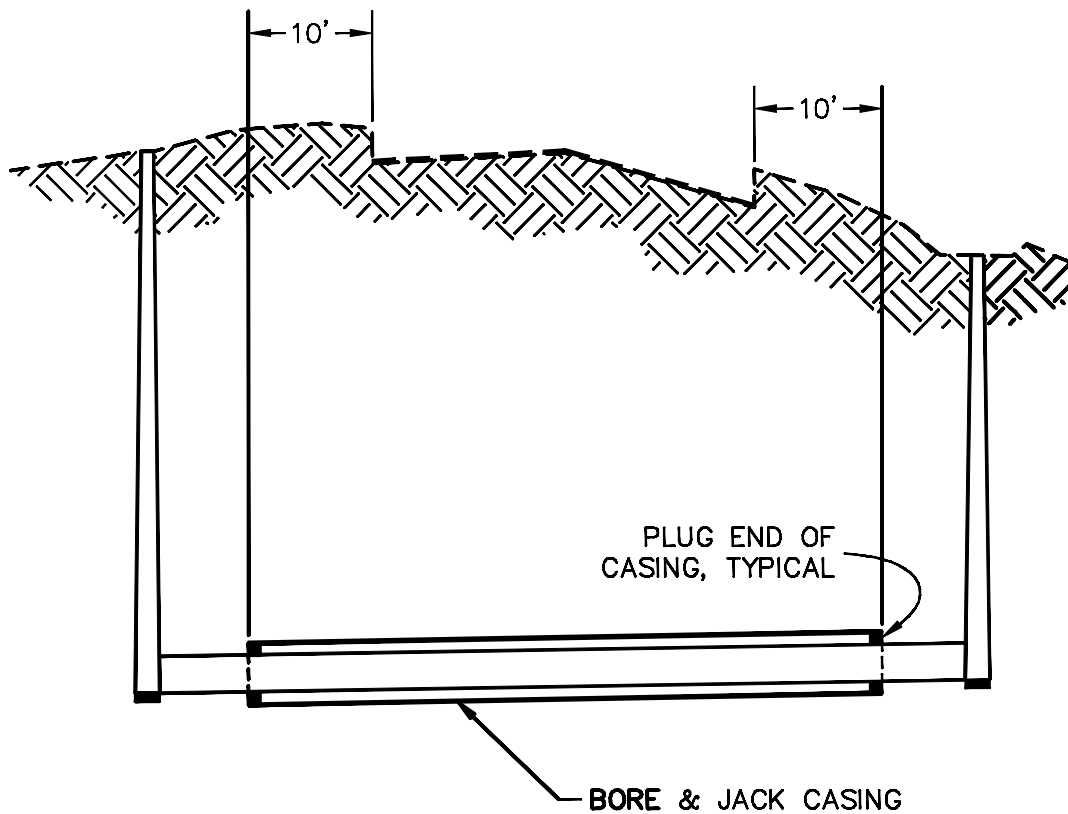
DETAIL NO:

4020B

DATE: 06/02/98



|            |  |  |
|------------|--|--|
| REV. DATE: | <p>FORCE MAIN TO EXIST.<br/>SANITARY MANHOLE</p> | <p>DETAIL NO:<br/><b>4021</b><br/>DATE: 04/29/1999</p> |
|------------|--|--|



**BORE & JACK  
PROFILE  
N.T.S.**

REV. DATE:

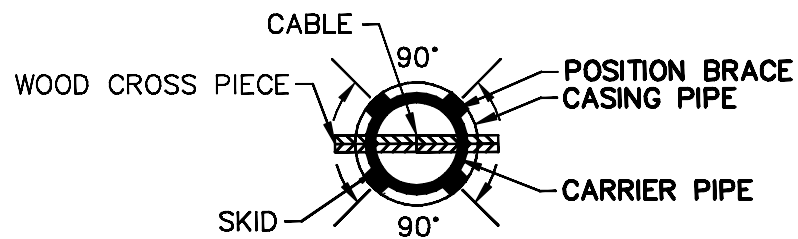
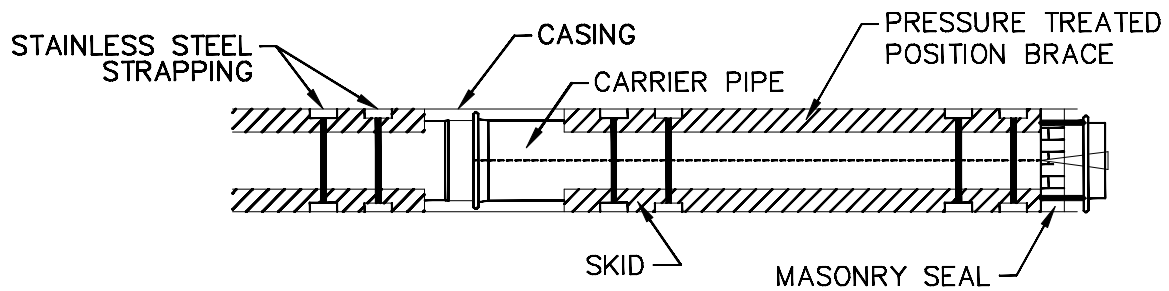
**BORE & JACK  
UNDER PAVED ROADWAY**

DETAIL NO:

**4022**

DATE: 08/24/1999





**12" AND UNDER - 4 SKIDS/BRACES**

**ALTERNATE: STAINLESS STEEL CASING SPACERS AS MANUFACTURED BY CASCADE OR EQUAL MAY BE USED IN LIEU OF WOODEN SKIDS.**

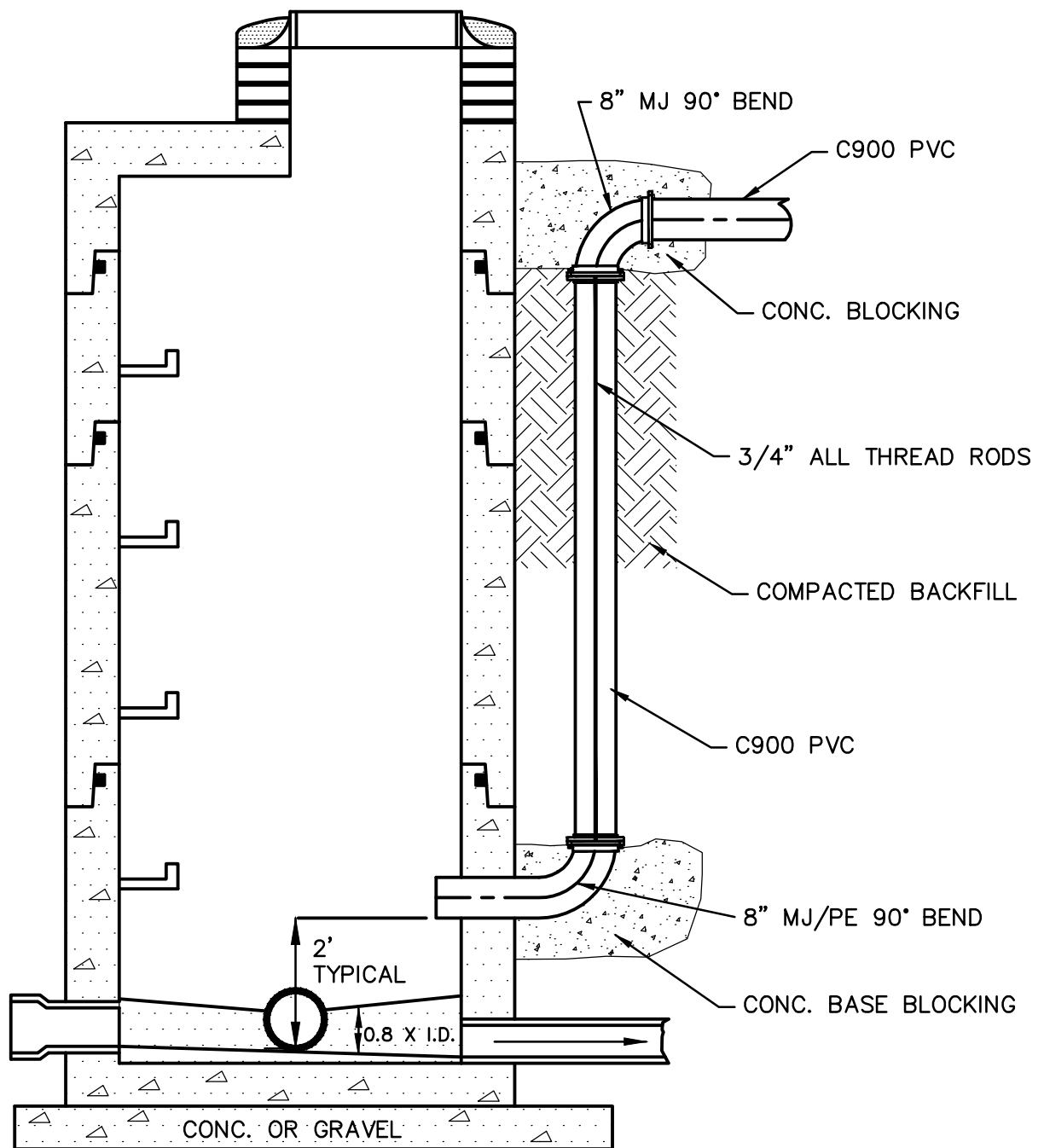
REV. DATE:

## BORE CASING DETAIL

DETAIL NO:

**4022A**

DATE: 03/20/2001



NTS

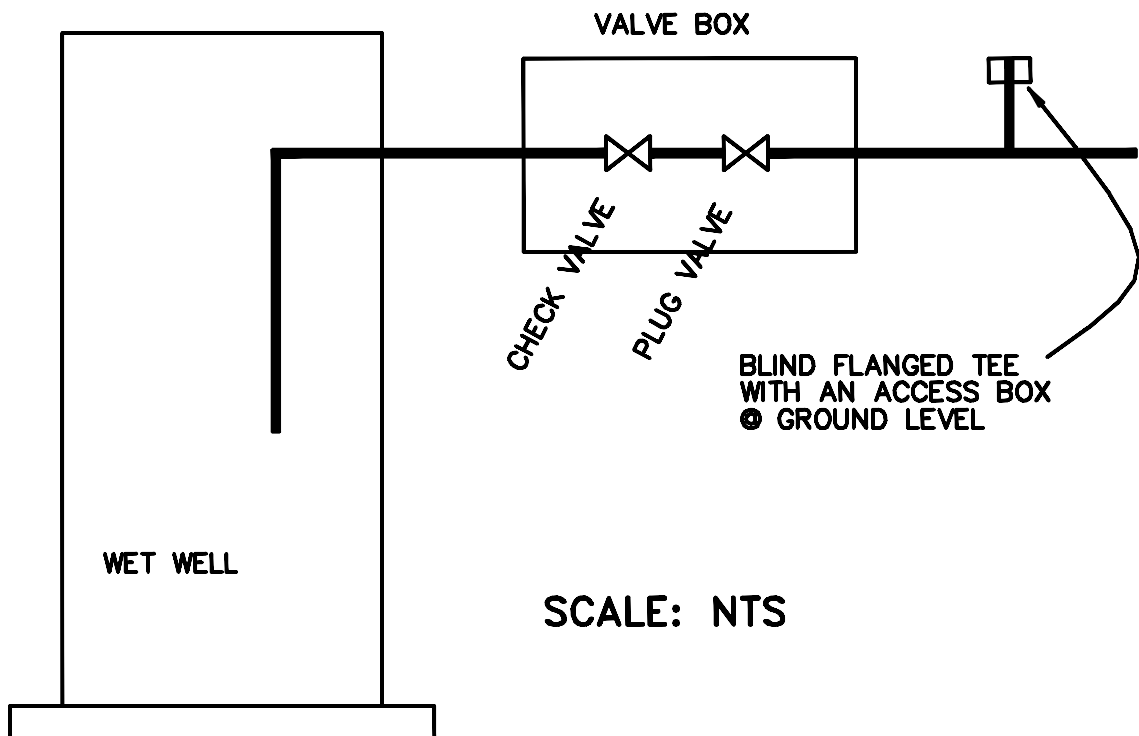
REV. DATE:

FORCE MAIN AT  
DEEP MANHOLE

DETAIL NO:

4023

DATE: 08/22/00



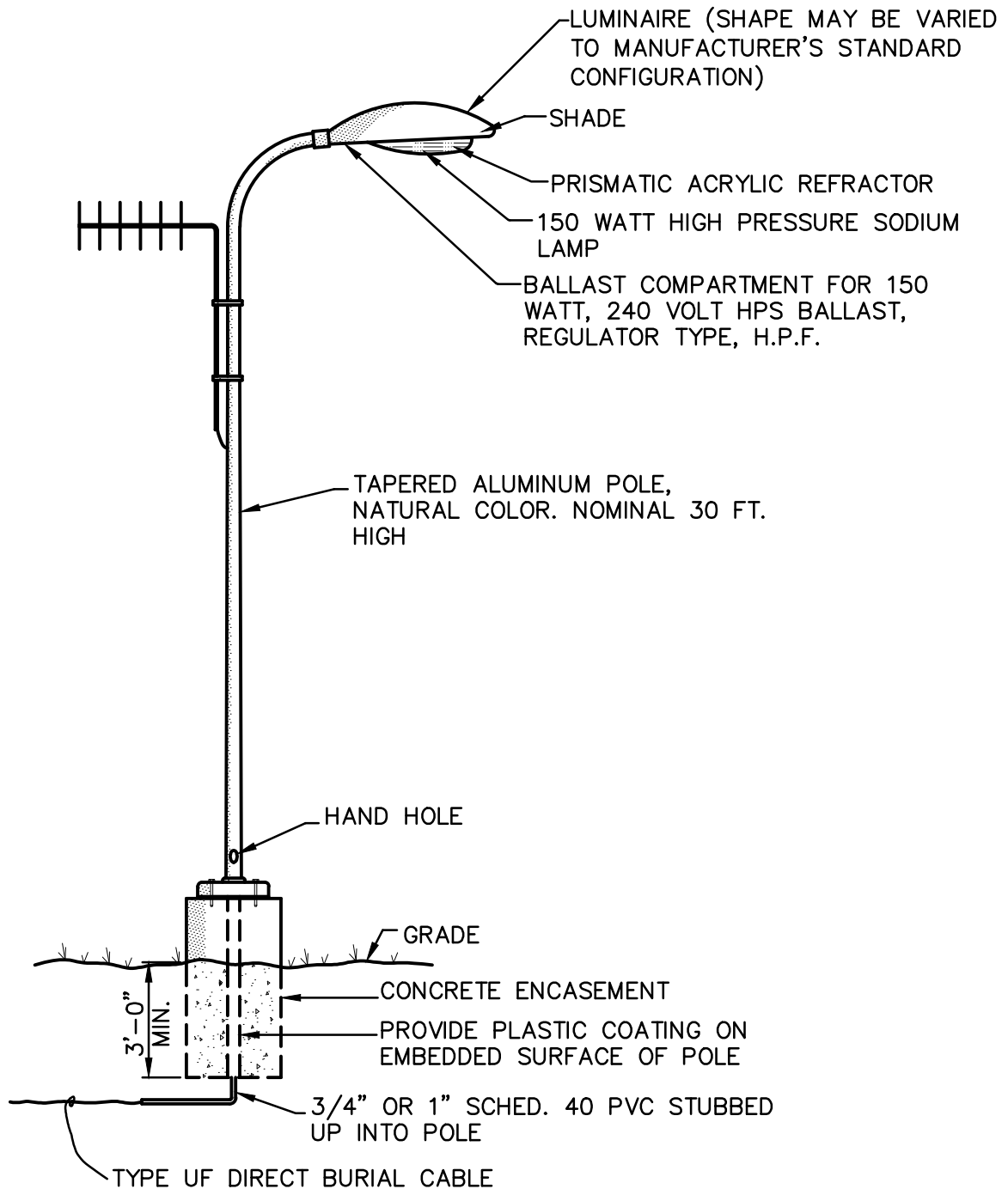
REV. DATE:

# SCHEMATIC REQUIREMENT PUMP STATION

DETAIL NO:

4024

DATE: 02/02/2001



OUTDOOR LIGHT POLE  
WITH TELEMETRY  
N.T.S.

REV. DATE:

OUTDOOR LIGHT POLE  
WITH TELEMETRY

DETAIL NO:

4025

DATE: 01/31/2001

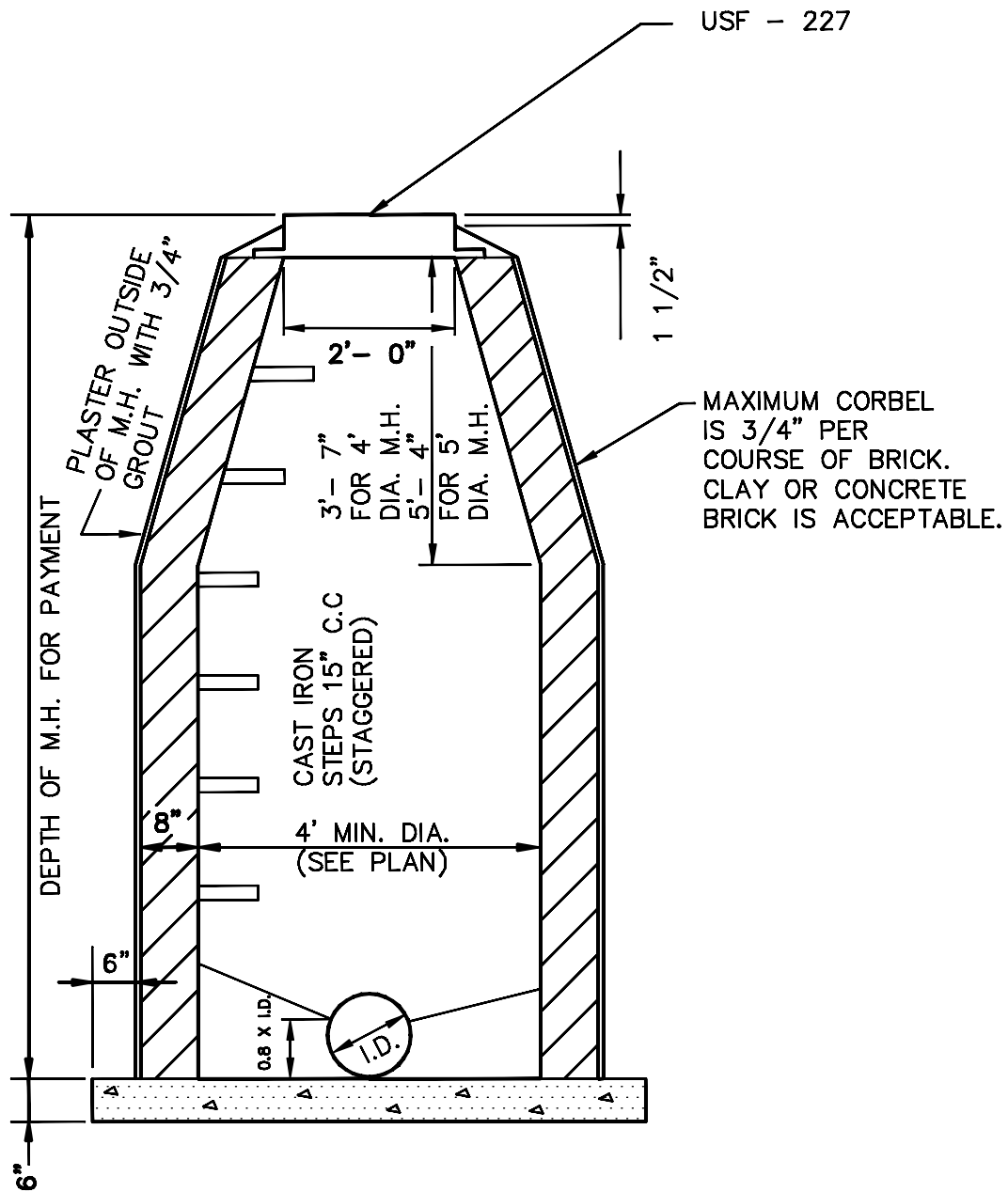
LUMINARIES ARE TO BE 150 WATT HIGH PRESSURE SODIUM, DUSK TO DAWN OPERATED WITH A PHOTO ELECTRIC CELL, PROVIDE TWO.



METAL POLES TO BE ROUND TAPERED ONE-PIECE SEAMLESS ALUMINUM SHAFTS. TOP DIAMETER OF 3"; BOTTOM DIAMETER OF 4" MINIMUM MINIMUM WALL THICKNESS: 0.125". BOTTOM 4'-0" SECTION PAINTED INSIDE AND OUTSIDE WITH ONE COAT OF BITUMINOUS PRIME.

23' OUTDOOR LIGHT POLE  
N.T.S.

|            |                        |   |
|------------|------------------------|---|
| REV. DATE: | 23' OUTDOOR LIGHT POLE | DETAIL NO:<br>4025A<br>DATE: 03/06/2007 |
|------------|------------------------|---|



NOTE:

1. A 0.05' MINIMUM FALL ACROSS MANHOLE IS REQUIRED UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.

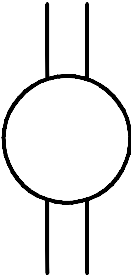
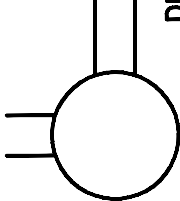
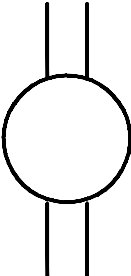
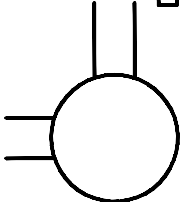
REV. DATE:  
09/16/2008  
01/14/2014

# STANDARD BRICK MANHOLE STORM SEWER SYSTEM

DETAIL NO:

5001

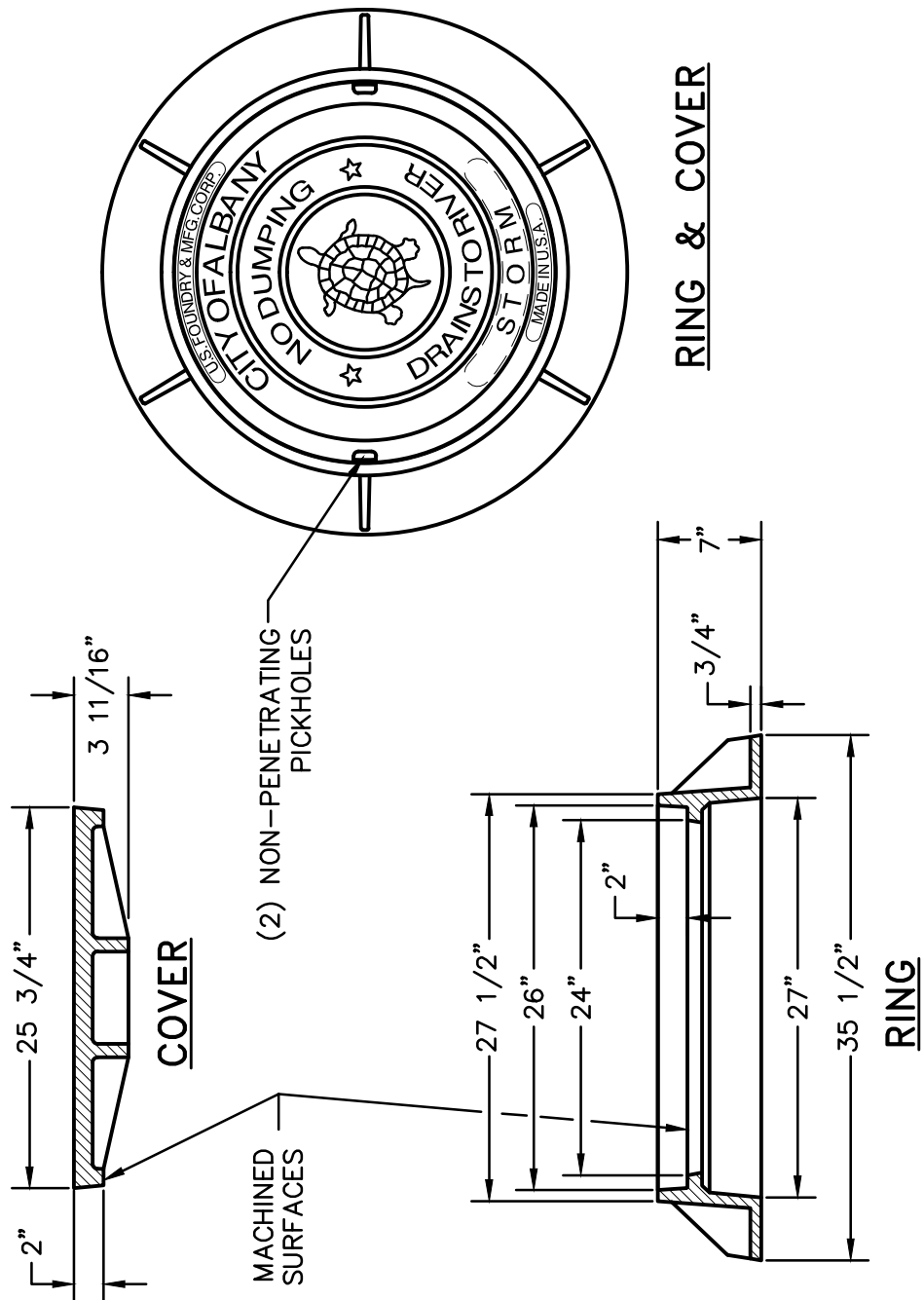
DATE: 09/30/1988

|   |     |   |     |   |         |   |     |         |
|---|-----|---|-----|---|---------|---|-----|---------|
|  |     |  |     |  |         |  |     |         |
| IN  | OUT | DIA. MH   | IN  | OUT   | DIA. MH | IN  | OUT | DIA. MH |
| 12"   | 12" | 4'  | 12" | 12"   | 4'      | 30"   | 48" | 6'      |
| 12"   | 18" | 4'  | 12" | 18"   | 4'      | 30"   | 54" | 7'      |
| 12"   | 24" | 4'  | 12" | 24"   | 4'      | 30"   | 60" | 7'      |
| 12"   | 30" | 4'  | 12" | 30"   | 4'      | 30"   | 72" | 8'      |
| 12"   | 36" | 4'  | 12" | 36"   | 4'      | 36"   | 36" | 6'      |
| 12"   | 42" | 5'  | 12" | 42"   | 5'      | 36"   | 42" | 6'      |
| 12"   | 48" | 5'  | 12" | 48"   | 6'      | 36"   | 48" | 7'      |
| 12"   | 54" | 6'  | 12" | 54"   | 6'      | 36"   | 54" | 8'      |
| 12"   | 60" | 7'  | 12" | 60"   | 7'      | 36"   | 60" | BOX     |
| 12"   | 72" | 8'  | 12" | 72"   | 8'      | 36"   | 72" | BOX     |
| 18"   | 18" | 4'  | 18" | 18"   | 4'      | 42"   | 42" | 7'      |
| 18"   | 24" | 4'  | 18" | 24"   | 4'      | 42"   | 48" | 7'      |
| 18"   | 30" | 4'  | 18" | 30"   | 4'      | 42"   | 54" | 7'      |
| 18"   | 36" | 4'  | 18" | 36"   | 5'      | 42"   | 60" | 8'      |
| 18"   | 42" | 5'  | 18" | 42"   | 5'      | 42"   | 72" | BOX     |
| 18"   | 48" | 5'  | 18" | 48"   | 6'      | 48"   | 48" | 7'      |
| 18"   | 54" | 6'  | 18" | 54"   | 6'      | 48"   | 54" | 8'      |
| 18"   | 60" | 7'  | 18" | 60"   | 7'      | 48"   | 60" | 8'      |
| 18"   | 72" | 8'  | 18" | 72"   | 8'      | 48"   | 72" | BOX     |
| 24"   | 24" | 4'  | 24" | 24"   | 4'      | 54"   | 54" | BOX     |
| 24"   | 30" | 4'  | 24" | 30"   | 5'      | 54"   | 60" | BOX     |
| 24"   | 36" | 4'  | 24" | 36"   | 5'      | 54"   | 72" | BOX     |
| 24"   | 42" | 5'  | 24" | 42"   | 5'      | 60"   | 60" | BOX     |
| 24"   | 48" | 5'  | 24" | 48"   | 6'      | 60"   | 72" | BOX     |
| 24"   | 54" | 6'  | 24" | 54"   | 7'      | 72"   | 72" | BOX     |
| 24"   | 60" | 7'  | 24" | 60"   | 7'      |   |     |         |
| 24"   | 72" | 8'  | 24" | 72"   | 8'      |   |     |         |
| 30"   | 30" | 4'  | 30" | 30"   | 8'      |   |     |         |
| 30"   | 36" | 4'  | 30" | 36"   | 8'      |   |     |         |
| 30"   | 42" | 5'  | 30" | 42"   | 8'      |   |     |         |

NOTE: CURB INLET BOXES SHALL HAVE MIN. DIM. EQUAL TO INDICATED MANHOLE DIA.

STANDARD MINIMUM SIZE MANHOLE DIAMETERS FOR 12, 18, 24, 30, 36, 42, 48, 54, 60, AND 72 INCH DIAMETER CONCRETE PIPE.

|            |   |   |
|------------|---|---|
| REV. DATE: | STANDARD MINIMUM SIZE<br>MANHOLE DIAMETERS FOR 12"<br>THROUGH 72" CONCRETE PIPE | DETAIL NO:<br>5001A<br>DATE: 06/07/1990 |
|------------|---|---|



REV. DATE:

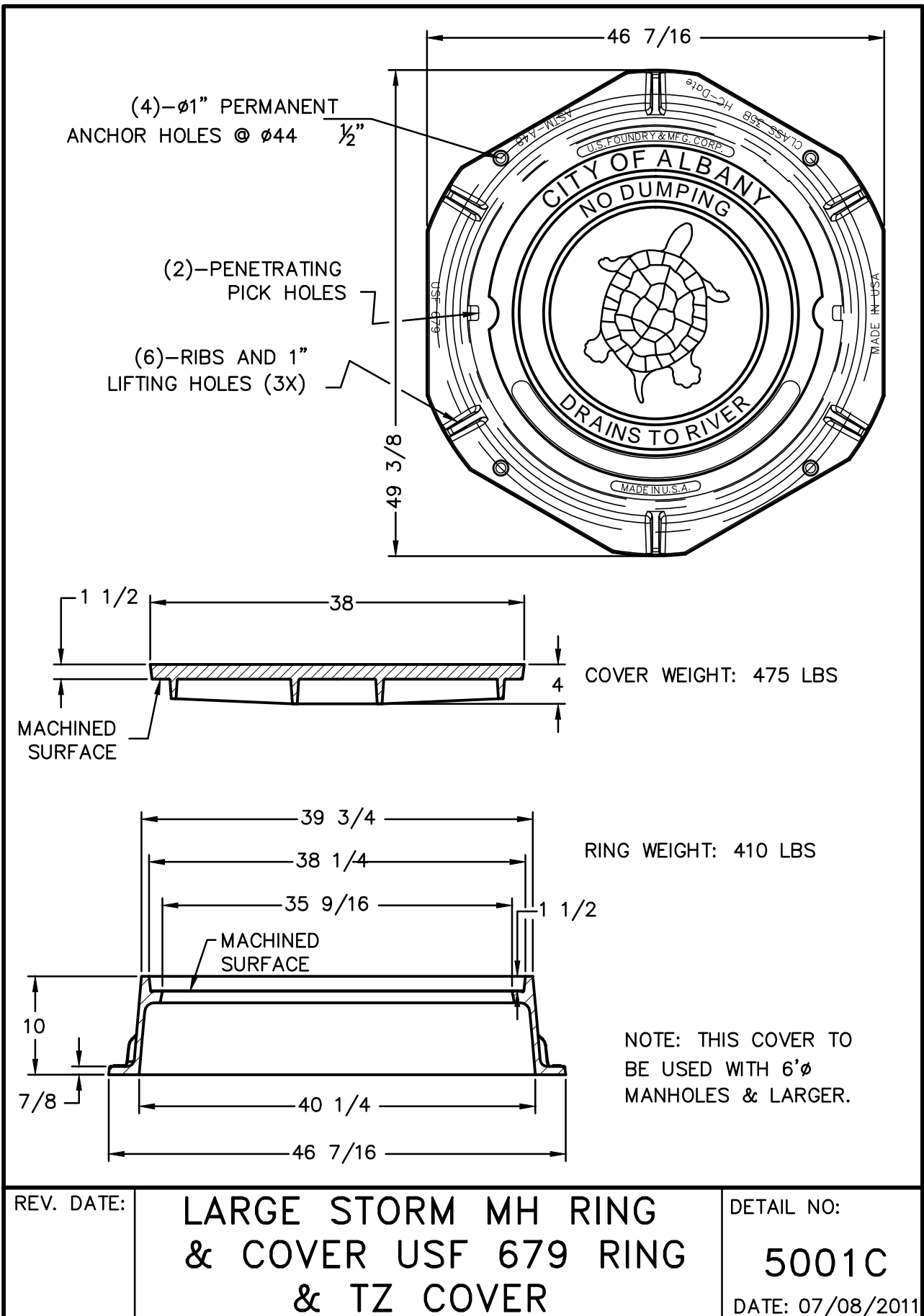
**STORM MH RING & COVER**  
**USF 227PT RING & COVER**  
**WITH COA LOGO**

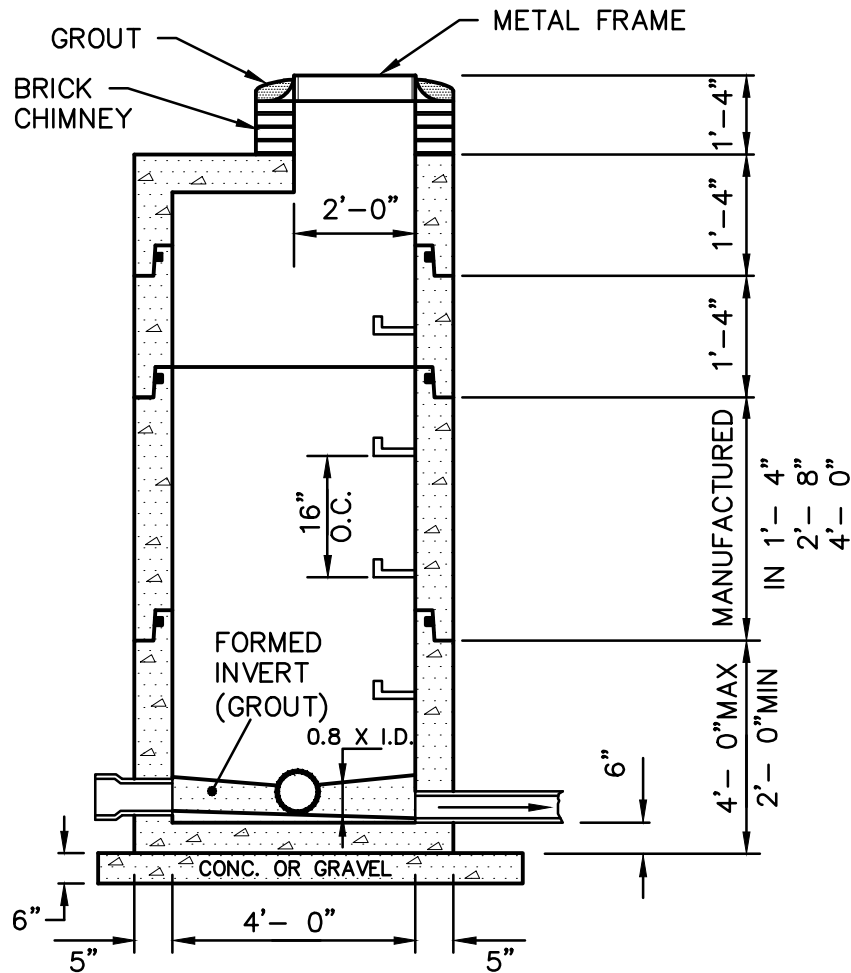
DETAIL NO:

**5001B**

DATE: 06/10/2009







NOTES:

1. PRECAST MANHOLE SECTIONS ARE MANUFACTURED IN LENGTHS OF 1'- 4", 2'- 8" & 4'- 0".
2. THE FIRST TWO SECTIONS BELOW THE TOP SECTION MUST BE 1'- 4" LONG ON ALL PROJECTS WITHIN THE CITY OF ALBANY.
3. A 0.05' MINIMUM FALL ACROSS MANHOLE IS REQUIRED UNLESS OTHERWISE APPROVED BY REVIEWING AUTHORITY.
4. ALIGN THE ACCESS OPENING ON NONCONCENTRIC TOPS DIRECTLY OVER THE EXIT PIPE OF MANHOLE.
5. THE PREFERRED HEIGHT OF 1'- 4" FOR THE BRICK CHIMNEY AND METAL FRAME MAY BE VARIED SLIGHTLY WITH PRIOR APPROVAL OF THE ENGINEER.
6. TOP MUST BE DESIGNED & CONSTRUCTED TO MEET HIGHWAY LOADING FOR TRUCK TRAFFIC.
7. CONCRETE REQUIRED WHERE CLAY PIPE IS INVOLVED. GRAVEL MAY BE USED WITH PVC, CONCRETE, CAST IRON OR DUCTILE IRON PIPE.

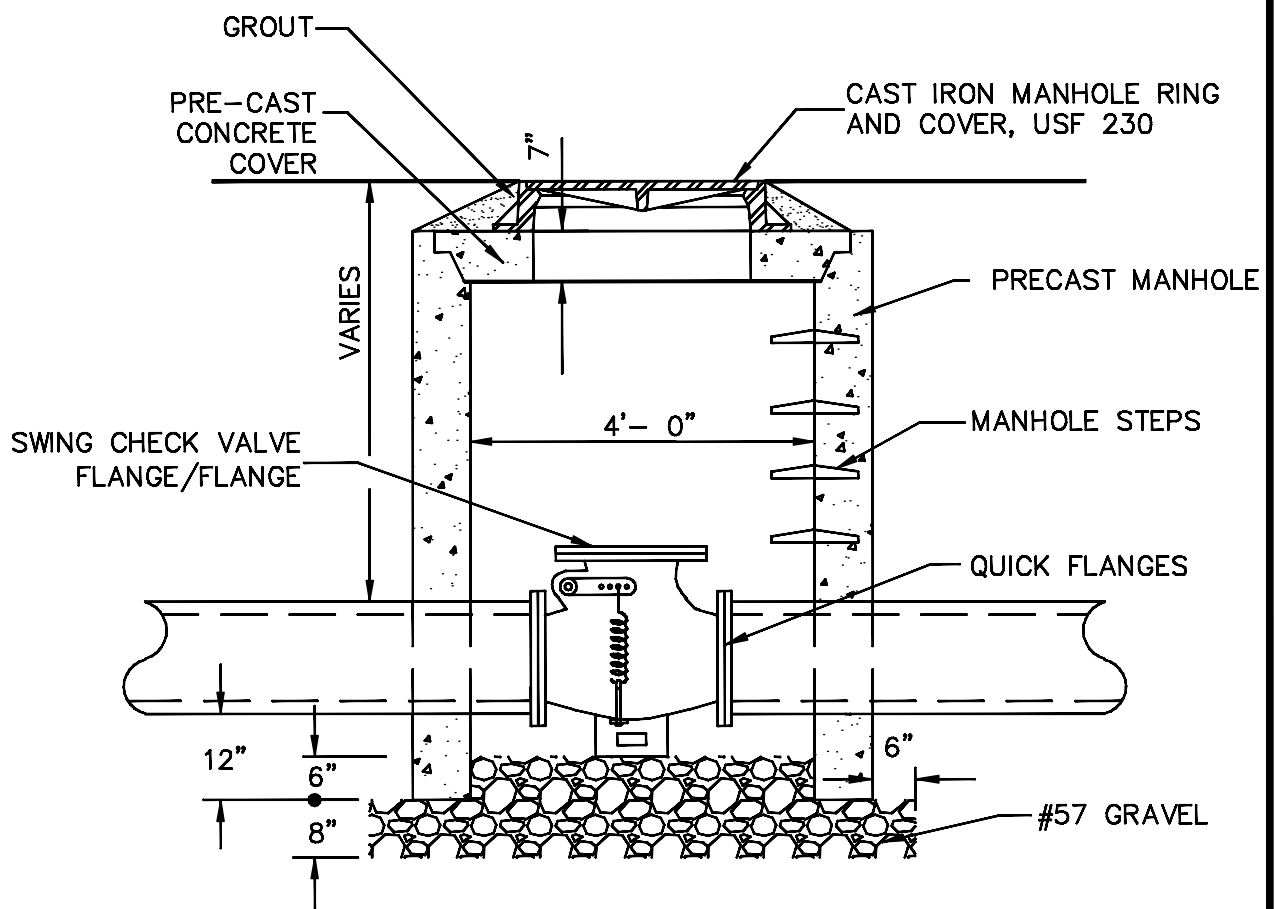
REV. DATE:  
01/14/2014

# STORM STANDARD PRECAST MANHOLE

DETAIL NO:

5002

DATE: 09/30/1988



CHECK VALVE MANHOLE  
N.T.S.

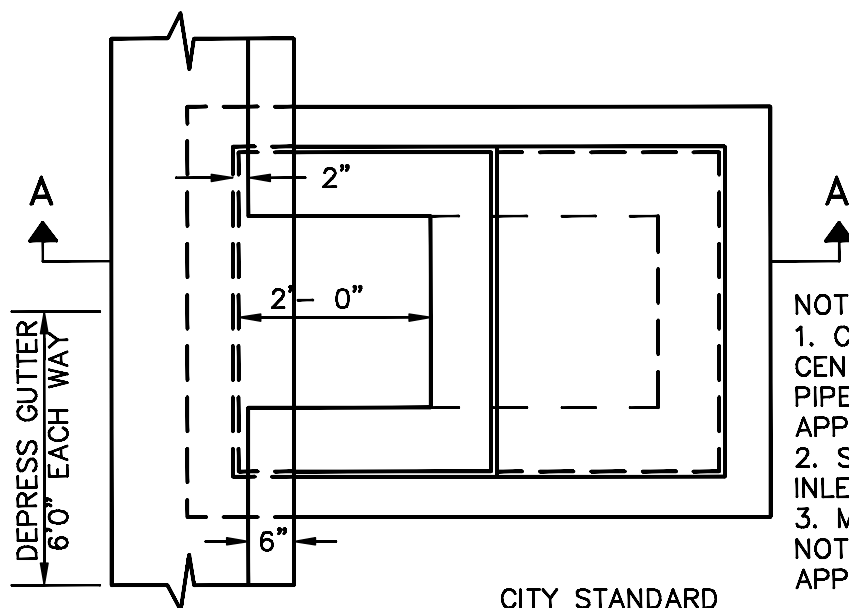
REV. DATE:

CHECK VALVE MANHOLE

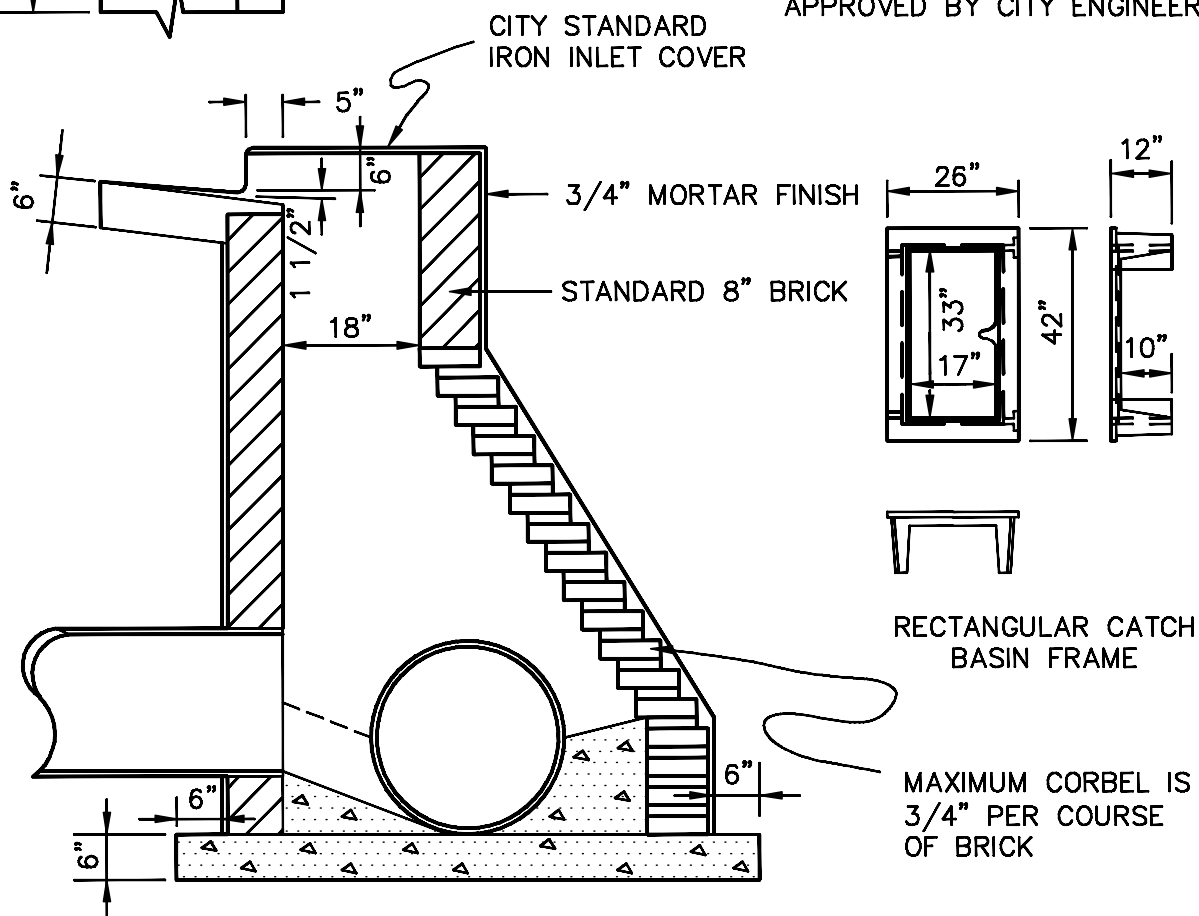
DETAIL NO:

5002A

DATE: 07/08/2004



- NOTE:
1. CONSTRUCT INVERT TO CENTER LINE OF LARGEST PIPE UNLESS OTHERWISE APPROVED.
  2. STEPS ARE NEEDED WHEN INLET DEPTH EXCEEDS 4 FT.
  3. MOTOR GRADER BLADES NOT ACCEPTABLE UNLESS APPROVED BY CITY ENGINEER



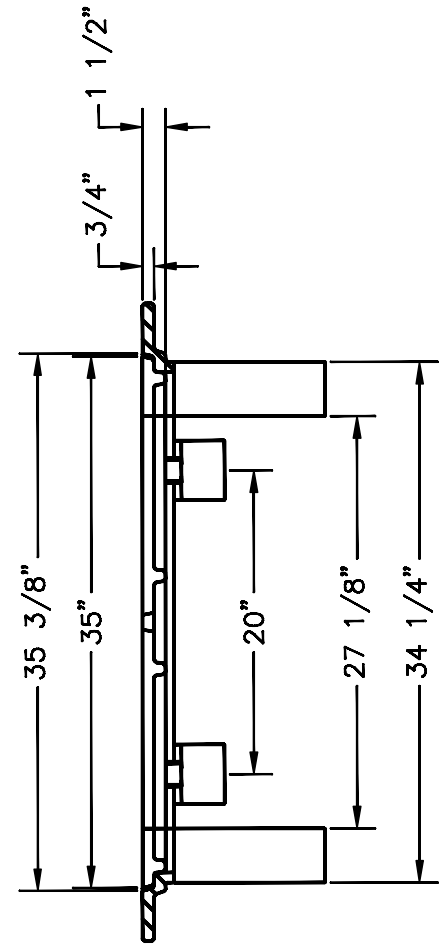
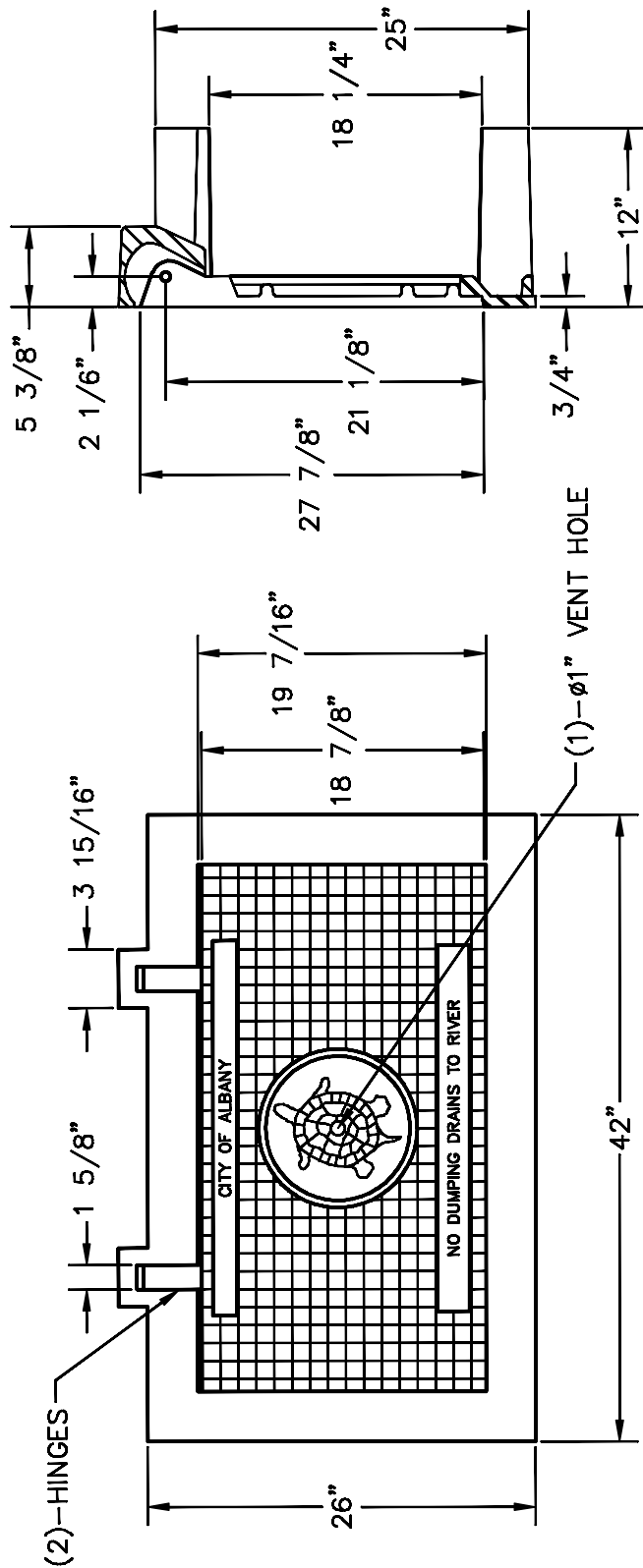
REV. DATE:

# STORM INLET TYPE A

DETAIL NO:

5003

DATE: 10/04/1988



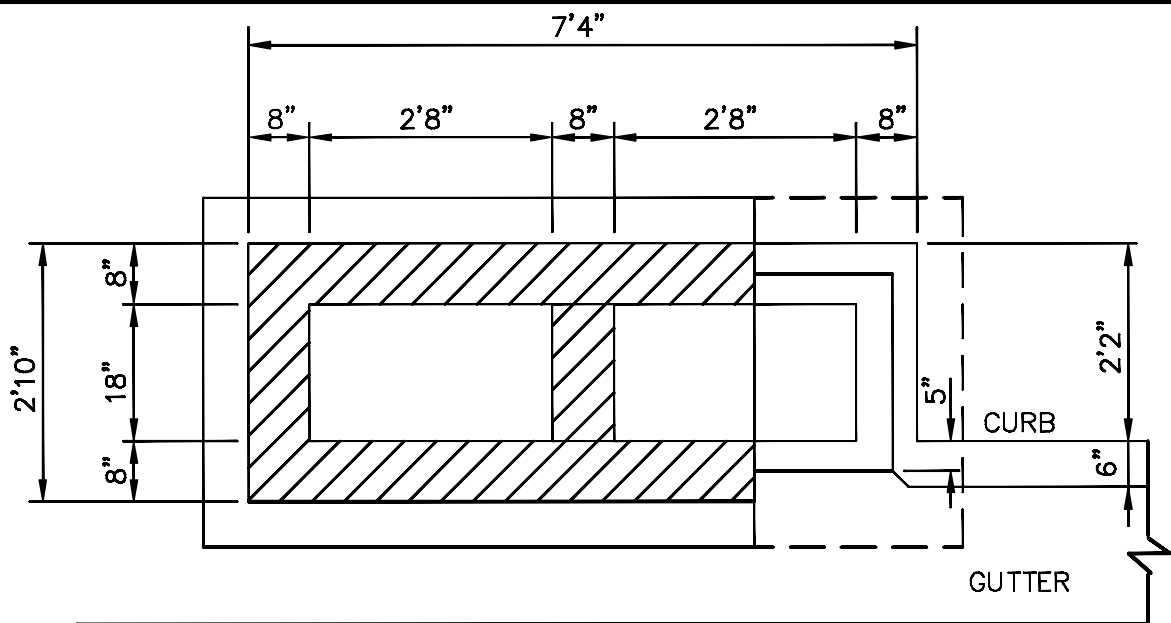
REV. DATE:  
07/07/2009

USF 5169PS FRAME &  
COVER WITH  
CITY OF ALBANY LOGO

DETAIL NO:

5003A

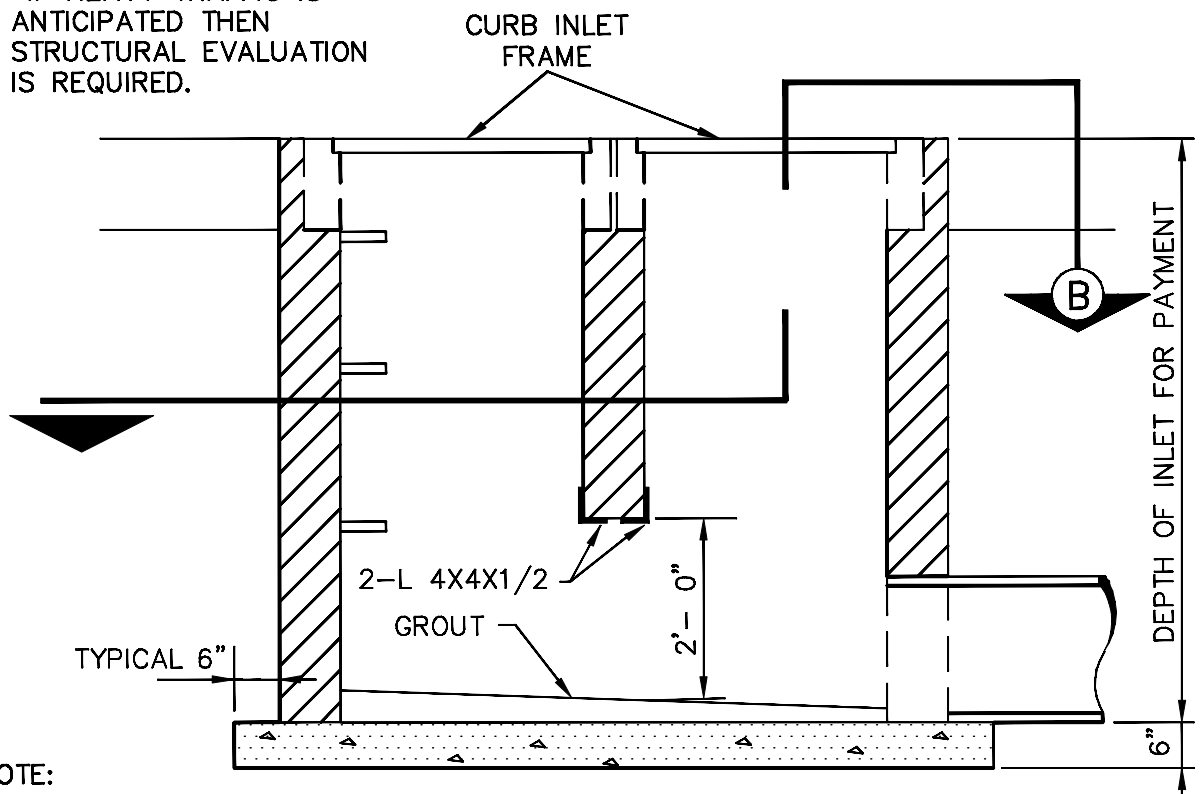
DATE: 06/10/2009



NOTE:  
IF HEAVY TRAFFIC IS  
ANTICIPATED THEN  
STRUCTURAL EVALUATION  
IS REQUIRED.

## SECTIONAL PLAN

(B)



NOTE:

1. CORBEL SIDES AS NECESSARY TO ACCOMMODATE PIPES IN EXCESS OF 18" DIAMETER.
2. INVERT NEEDED WHEN USED AS MANHOLE.
3. STEPS NECESSARY ON DEPTH OF INLET OVER 4 FT.
4. MOTOR GRADER BLADES NOT ALLOWABLE UNLESS APPROVED BY CITY ENGINEER.

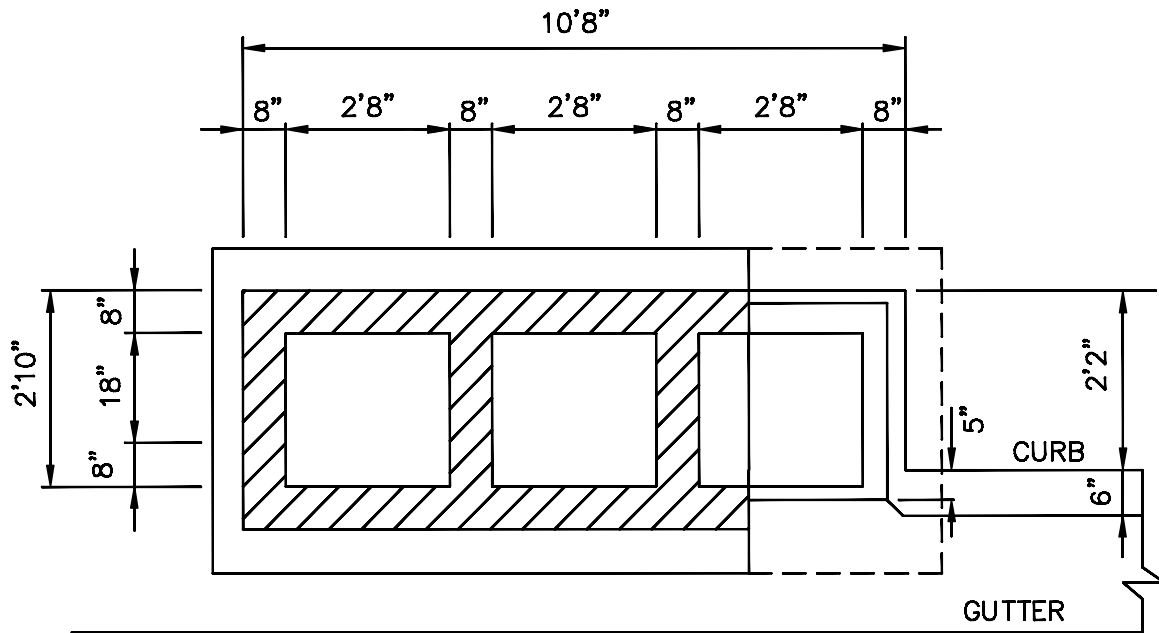
REV. DATE:

DOUBLE CURB INLET

DETAIL NO:

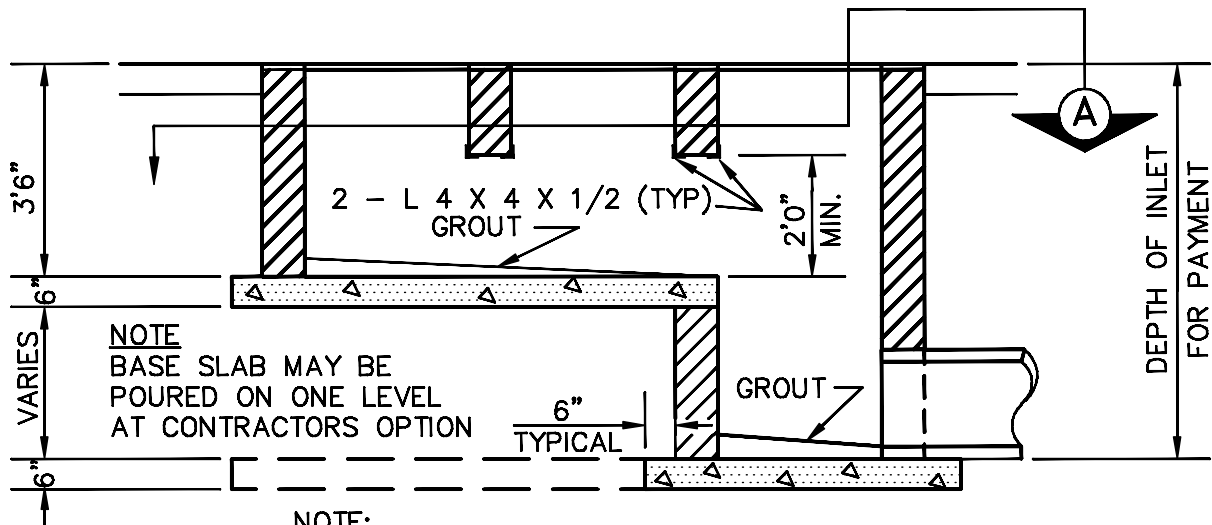
5004

DATE: 10/04/1988



SECTIONAL PLAN

(A)



NOTE:

1. CORBEL SIDES AS NECESSARY TO ACCOMMODATE PIPES IN EXCESS OF 18" DIAMETER.
2. INVERT NEEDED WHEN USED AS MANHOLE
3. STEPS NECESSARY ON DEPTH OF INLET OVER 4 FT.
4. MOTOR GRADER BLADES NOT ALLOWABLE UNLESS APPROVED BY CITY ENGINEER.

REV. DATE:  
10/16/2009

TRIPLE CURB  
INLET

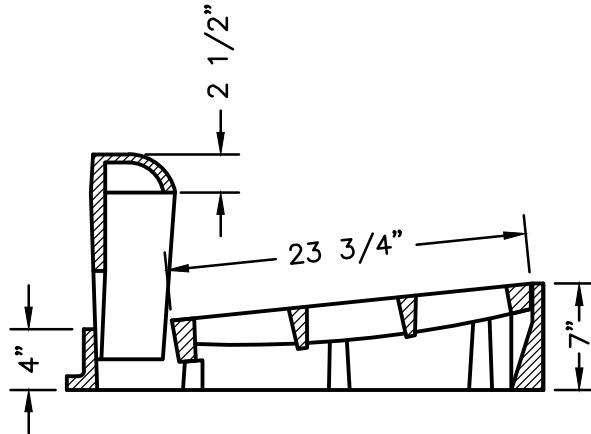
DETAIL NO:

5005

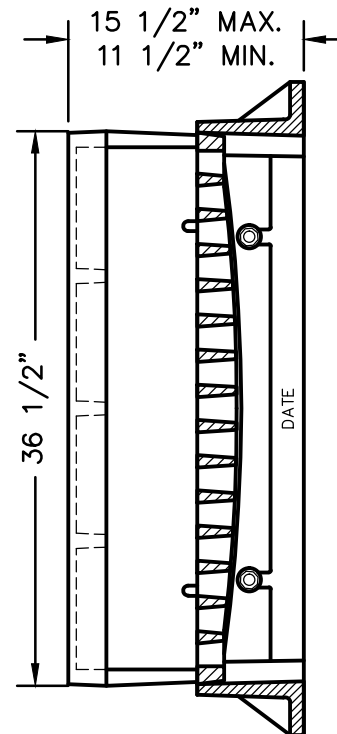
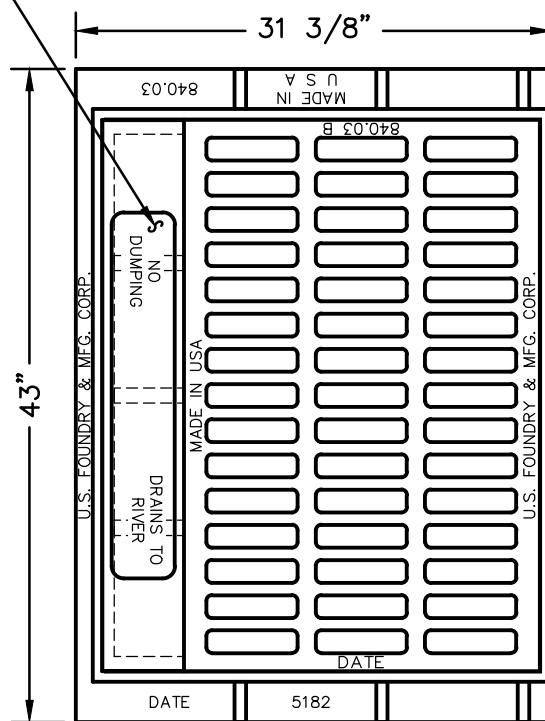
DATE: 10/04/1988

DATE: 07/28/1998





SPECIAL  
NAMEPLATE  
WITH LOGO



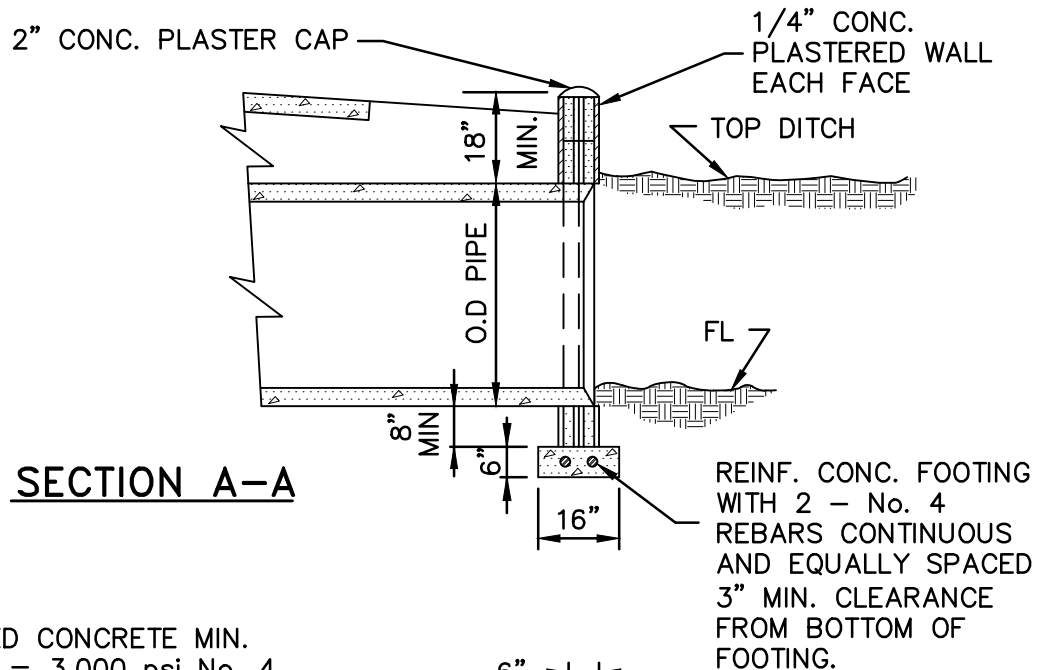
REV. DATE:  
10/29/2009  
03/20/2013

USF 5181 FRAME & 6428 GRATE  
WITH NAME PLATE &  
CITY OF ALBANY LOGO  
FOR USE WITH ALLEY STORM INLET

DETAIL NO:

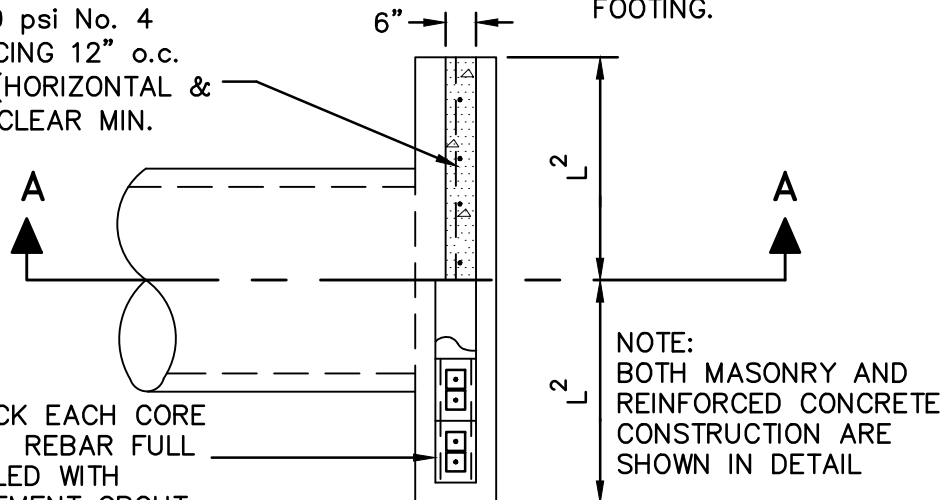
5006A

DATE: 06/10/2009



REINFORCED CONCRETE MIN. STRENGTH = 3,000 psi No. 4 REBARS MAX. SPACING 12" o.c. BOTH DIRECTIONS (HORIZONTAL & VERTICAL) 1 1/2" CLEAR MIN.

8" MASONRY BLOCK EACH CORE CONTAINS No. 4 REBAR FULL LENGTH AND FILLED WITH CONCRETE OR CEMENT GROUT (3:1 RATIO)



- GENERAL NOTES;
1. REINFORCING BARS MIN. YIELD STRENGTH = 40,000 psi.
  2. THE MASONRY WALL SHALL HAVE HORIZONTAL JOINT REINFORCEMENT AT EVERY COURSE OR A HORIZONTAL BOND BEAM WITH TWO No. 4 BARS EVERY 16 INCHES.

### HEADWALL DIMENSIONS

| PIPE DIA. | 1<br>L | 2<br>L | 3<br>L | 4<br>L  | 5<br>L  |
|-----------|--------|--------|--------|---------|---------|
| 12"       | 1'- 4" | 2'- 0" | 3'- 8" | 0'- 10" | 2'- 10" |
| 15"       | 2'- 0" | 2'- 8" | 4'- 0" | 1'- 0"  | 3'- 0"  |
| 18"       | 2'- 0" | 3'- 8" | 4'- 8" | 1'- 2"  | 3'- 4"  |
| 21"       | 2'- 8" | 4'- 0" | 5'- 4" | 1'- 3"  | 3'- 8"  |
| 24"       | 2'- 8" | 4'- 0" | 5'- 4" | 1'- 6"  | 3'- 11" |
| 30"       | 2'- 8" | 5'- 4" | 6'- 8" | 1'- 10" | 4'- 7"  |
| 36"       | 3'- 4" | 6'- 8" | 8'- 0" | 1'- 10" | 5'- 2"  |
| 42"       | 4'- 0" | 8'- 0" | 9'- 4" | 2'- 2"  | 5'- 9"  |

REV. DATE:

## STRAIGHT TYPE HEADWALL

DETAIL NO:

**5007**

DATE: 10/04/1988





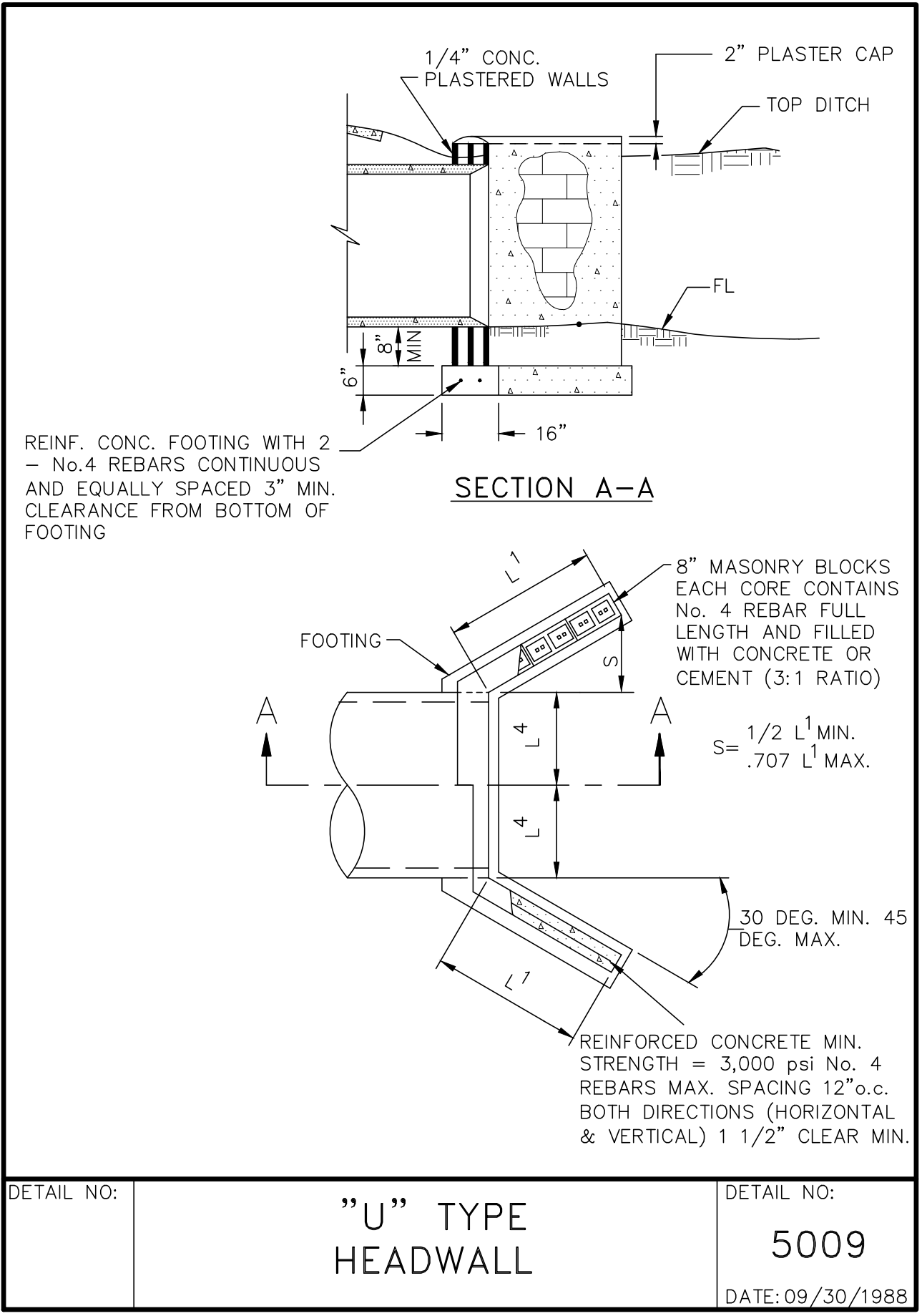
| PIPE<br>DIA. | 1<br>L  | 2<br>L  | 3<br>L  | 4<br>L   | 5<br>L   |
|--------------|---------|---------|---------|----------|----------|
| 12"          | 1' - 4" | 2' - 0" | 3' - 8" | 0' - 10" | 2' - 10" |
| 15"          | 2' - 0" | 2' - 8" | 4' - 0" | 1' - 0"  | 3' - 0"  |
| 18"          | 2' - 0" | 3' - 8" | 4' - 8" | 1' - 2"  | 3' - 4"  |
| 21"          | 2' - 8" | 4' - 0" | 5' - 4" | 1' - 3"  | 3' - 8"  |
| 24"          | 2' - 8" | 4' - 0" | 5' - 4" | 1' - 6"  | 3' - 11" |
| 30"          | 2' - 8" | 5' - 4" | 6' - 8" | 1' - 10" | 4' - 7"  |
| 36"          | 3' - 4" | 6' - 8" | 8' - 0" | 1' - 10" | 5' - 2"  |
| 42"          | 4' - 0" | 8' - 0" | 9' - 4" | 2' - 2"  | 5' - 9"  |

1. REINFORCING BARS MIN. YIELD STRENGTH = 40,000 psi.
2. THE MASONRY WALL SHALL HAVE HORIZONTAL JOINT REINFORCEMENT AT EVERY COURSE OR A HORIZONTAL BOND BEAM WITH TWO No. 4 BARS EVERY 16 INCHES.

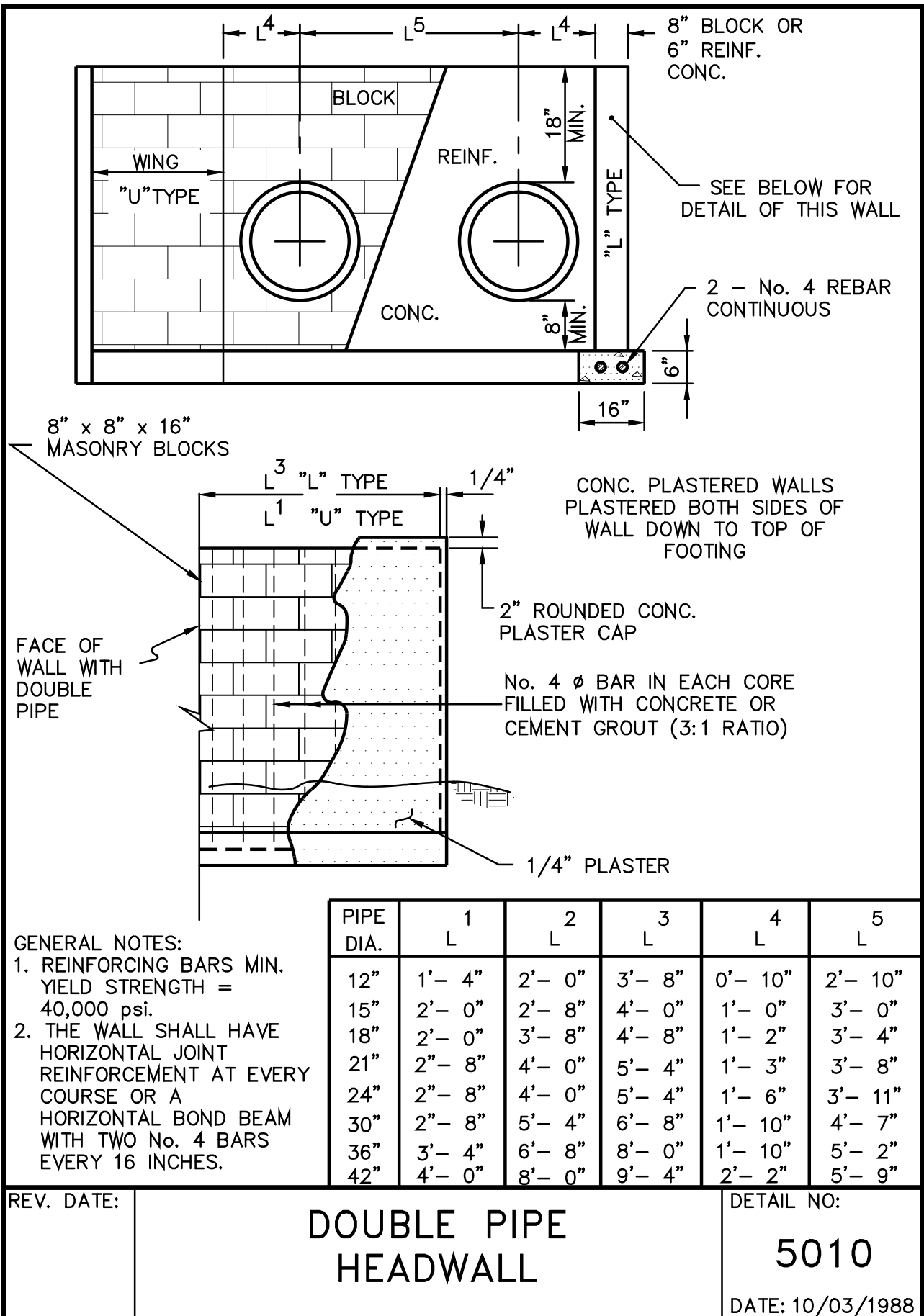
## "L" TYPE HEADWALL

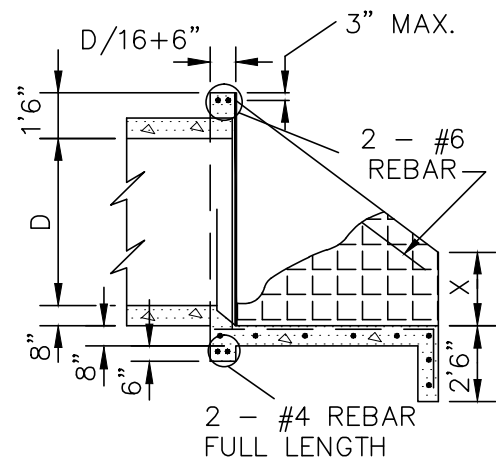
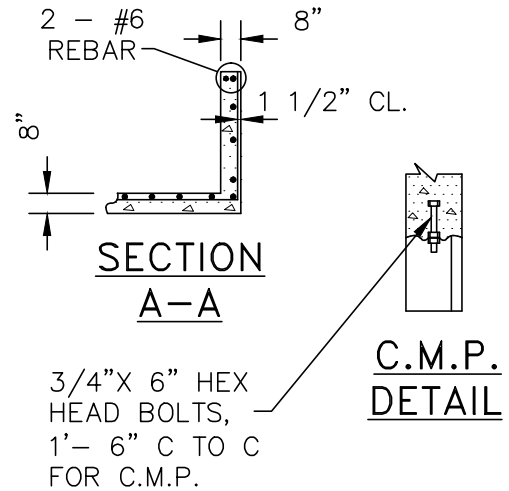
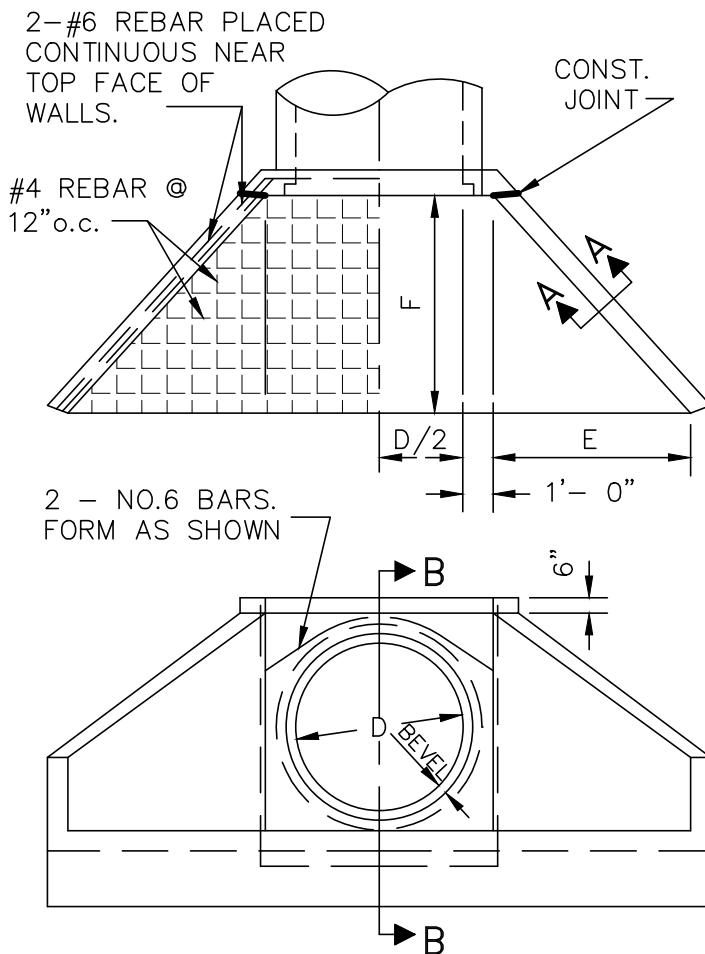
5008

DATE: 09/30/1988



|            |                      |                        |
|------------|----------------------|------------------------|
| DETAIL NO: | "U" TYPE<br>HEADWALL | DETAIL NO:<br><br>5009 |
|            |                      | DATE: 09/30/1988       |





| 1 1/2 : 1 EMBANKMENT SLOPE |            |         |         |              |        |        |
|----------------------------|------------|---------|---------|--------------|--------|--------|
| D                          | DIMENSIONS |         |         | CONC. (C.Y.) |        |        |
|                            | F          | E       | X       | C.M.P.       | R.C.P. | (LBS.) |
| 42"                        | 5'- 2"     | 5'- 2"  | 1'- 9"  | 4.55         | 4.45   | 275    |
| 48"                        | 5'- 8"     | 5'- 8"  | 1'- 11" | 5.32         | 5.20   | 321    |
| 54"                        | 6'- 2"     | 6'- 2"  | 2'- 1"  | 6.14         | 6.01   | 370    |
| 60"                        | 6'- 8"     | 6'- 8"  | 2'- 3"  | 7.03         | 6.88   | 424    |
| 66"                        | 7'- 2"     | 7'- 2"  | 2'- 5"  | 7.98         | 7.81   | 481    |
| 72"                        | 7'- 8"     | 7'- 8"  | 2'- 7"  | 8.99         | 8.80   | 542    |
| 78"                        | 8'- 2"     | 8'- 2"  | 2'- 9"  | 10.07        | 9.85   | 608    |
| 84"                        | 8'- 8"     | 8'- 8"  | 2'- 11" | 11.20        | 10.96  | 676    |
| 4 : 1 EMBANKMENT SLOPE     |            |         |         |              |        |        |
| 42"                        | 8'- 8"     | 8'- 8"  | 3'- 0"  | 7.88         | 7.70   | 475    |
| 48"                        | 8'- 8"     | 8'- 8"  | 3'- 6"  | 8.47         | 8.28   | 511    |
| 54"                        | 8'- 8"     | 8'- 8"  | 4'- 0"  | 9.07         | 8.87   | 548    |
| 60"                        | 9'- 4"     | 9'- 4"  | 4'- 4"  | 10.39        | 10.16  | 627    |
| 66"                        | 9'- 8"     | 9'- 8"  | 4'- 9"  | 11.42        | 11.17  | 689    |
| 72"                        | 9'- 8"     | 9'- 8"  | 5'- 3"  | 12.11        | 11.84  | 731    |
| 78"                        | 10'- 0"    | 10'- 0" | 5'- 8"  | 13.22        | 12.93  | 798    |
| 84"                        | 10'- 8"    | 10'- 8" | 6'- 0"  | 14.81        | 14.48  | 893    |

**SECTION B-B**

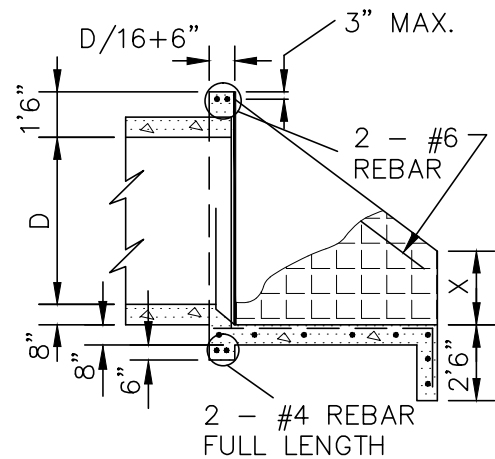
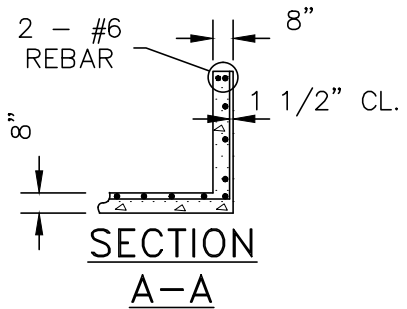
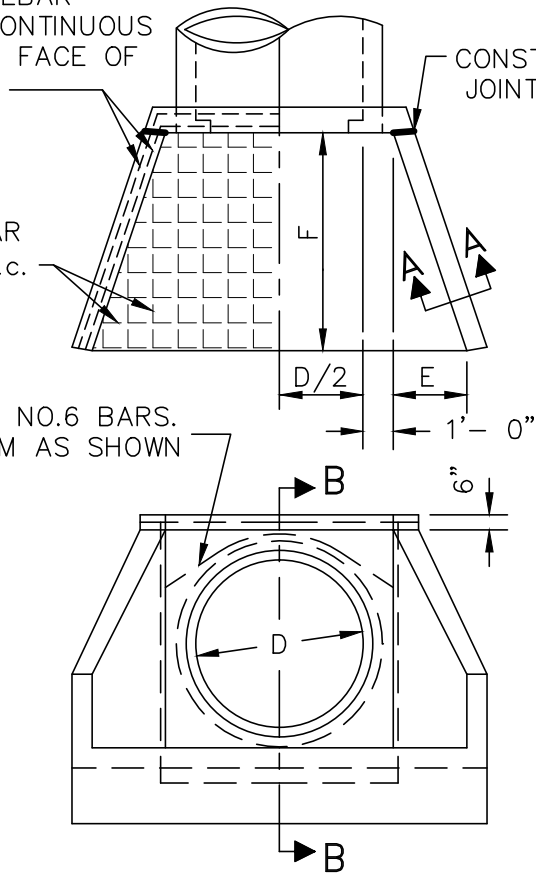
|            |                       |                  |
|------------|-----------------------|------------------|
| REV. DATE: | <b>INLET HEADWALL</b> | DETAIL NO:       |
|            |                       | <b>5011</b>      |
|            |                       | DATE: 10/03/1988 |

2 - #6 REBAR  
PLACED CONTINUOUS  
NEAR TOP FACE OF  
WALLS

#4 REBAR  
@ 12" o.c.

2 - NO.6 BARS.  
FORM AS SHOWN

CONST.  
JOINT



1 1/2 : 1 EMBANKMENT SLOPE

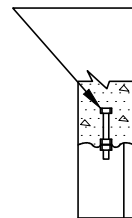
| D   | DIMENSIONS |         |         | CONC. (C.Y.) |        | REINF. STEEL*<br>(LBS.) |
|-----|------------|---------|---------|--------------|--------|-------------------------|
|     | F          | E       | X       | C.M.P.       | R.C.P. |                         |
| 42" | 5'- 2"     | 1'- 11" | 1'- 9"  | 3.53         | 3.45   | 213                     |
| 48" | 5'- 8"     | 2'- 1"  | 1'- 11" | 4.12         | 4.03   | 249                     |
| 54" | 6'- 2"     | 2'- 3"  | 2'- 1"  | 4.75         | 4.65   | 287                     |
| 60" | 6'- 8"     | 2'- 5"  | 2'- 3"  | 5.43         | 5.31   | 328                     |
| 66" | 7'- 2"     | 2'- 7"  | 2'- 5"  | 6.16         | 6.02   | 372                     |
| 72" | 7'- 8"     | 2'- 9"  | 2'- 7"  | 6.94         | 6.78   | 419                     |
| 78" | 8'- 2"     | 3'- 0"  | 2'- 9"  | 7.78         | 7.61   | 461                     |
| 84" | 8'- 8"     | 3'- 2"  | 2'- 11" | 8.66         | 8.47   | 522                     |

4 : 1 EMBANKMENT SLOPE

|     |         |         |        |       |       |     |
|-----|---------|---------|--------|-------|-------|-----|
| 42" | 8'- 8"  | 3'- 2"  | 3'- 0" | 5.59  | 5.46  | 337 |
| 48" | 8'- 8"  | 3'- 2"  | 3'- 6" | 6.10  | 5.97  | 368 |
| 54" | 8'- 8"  | 3'- 2"  | 4'- 0" | 6.63  | 6.48  | 400 |
| 60" | 9'- 4"  | 3'- 5"  | 4'- 4" | 7.60  | 7.43  | 458 |
| 66" | 9'- 8"  | 3'- 6"  | 4'- 9" | 8.39  | 8.20  | 506 |
| 72" | 9'- 8"  | 3'- 6"  | 5'- 3" | 8.99  | 8.80  | 542 |
| 78" | 10'- 0" | 3'- 8"  | 5'- 8" | 9.88  | 9.66  | 596 |
| 84" | 10'- 8" | 3'- 11" | 6'- 0" | 11.00 | 10.76 | 664 |

SECTION  
B-B

PLACE 3/4"x6"  
HEX HEAD BOLTS,  
1'-6" C. TO C.  
FOR C.M.P.



C.M.P.  
DETAIL

\* LESS 2 - #6 REBARS  
CONTINUOUS ALONG  
TOP OF WALLS

REV. DATE:

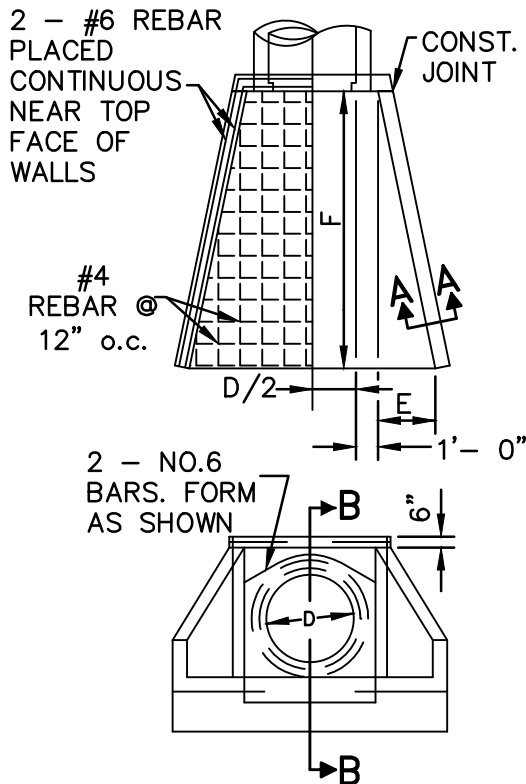
OUTLET  
HEADWALL

DETAIL NO:

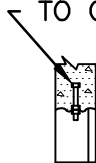
5012

DATE: 10/03/1988



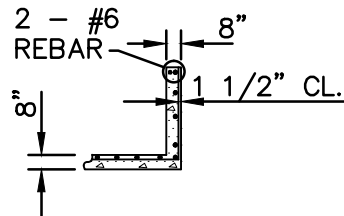


PLACE 3/4"X6" HEX  
HEAD BOLTS, 1'-6" C.  
TO C. FOR C.M.P.

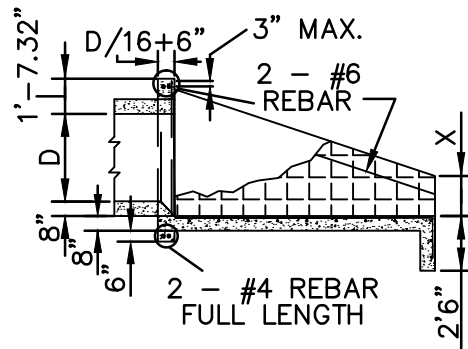


### C.M.P. DETAIL

\*LESS 2 - #6 REBARS  
CONTINUOUS ALONG TOP  
OF WALLS



### SECTION A-A



### SECTION B-B

| 3: 1 EMBANKMENT SLOPE |            |        |          |              |        |                         |
|-----------------------|------------|--------|----------|--------------|--------|-------------------------|
| D                     | DIMENSIONS |        |          | CONC. (C.Y.) |        | REINF. STEEL*<br>(LBS.) |
|                       | F          | E      | X        | C.M.P.       | R.C.P. |                         |
| 42"                   | 11'- 11"   | 2'- 6" | 1'- 3.8" | 18.17        | 17.76  | 1,096                   |
| 48"                   | 11'- 11"   | 2'- 8" | 1'- 9.8" | 19.96        | 19.51  | 1,204                   |
| 54"                   | 12'- 6"    | 2'- 8" | 2'- 1.6" | 21.78        | 21.29  | 1,314                   |
| 60"                   | 14'- 0"    | 3'- 0" | 2'- 1.6" | 24.39        | 23.84  | 1,471                   |

REV. DATE:

OUTLET HEADWALL

DETAIL NO:

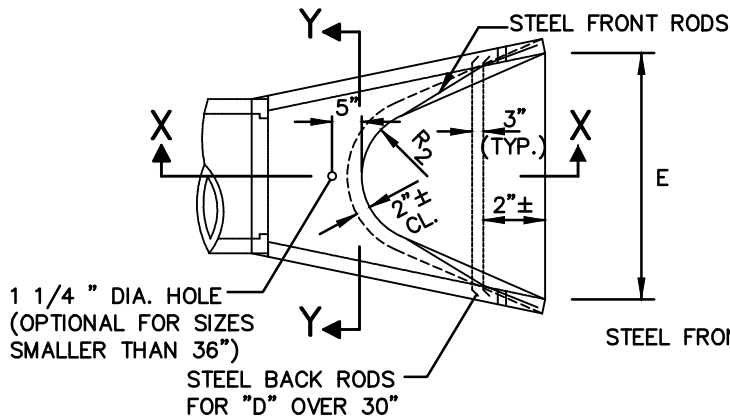
5012A

DATE: 04/14/1999

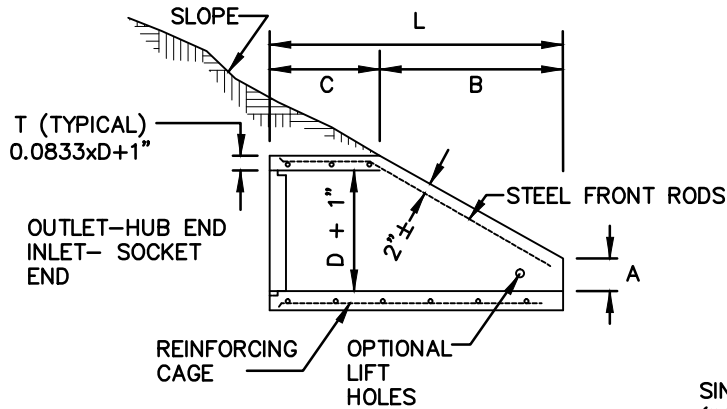
END SECTION TO PIPE JOINT SHOWN AS TYPICAL: HUB END ON OUTLET END SECTIONS; SOCKET END ON INLET END SECTIONS. SEE NOTE "A".  
DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION

#### INSTALLATION:

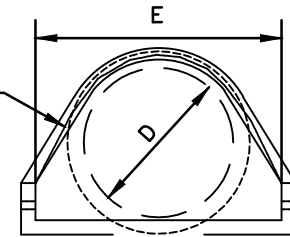
"D" OVER 30"— CABLE, CHAIN, OR LIFTING PIN WILL EXTEND THROUGH 1 1/4" HOLE WITH A PLATE OR REBAR CONNECTED INSIDE THE CONCRETE SECTION TO PROVIDE ADEQUATE BEARING AREA. A LIFTING DEVICE MAY BE USED TO GIVE 3 LIFT POINTS. HOOKS CONNECTED DIRECTLY TO THE CONCRETE ARE NOT PERMITTED. DAMAGE FROM IMPROPER HANDLING SHALL BE CAUSE FOR REJECTION.



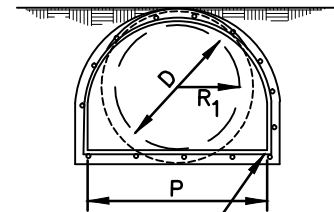
#### PLAN



#### SECTION X-X



#### FRONT



#### SECTION Y-Y

#### REINFORCING CAGE:

- (1) WIRE FABRIC HAVING SAME STEEL AREA AS INNER CAGE FOR CL.III PIPE, AASHTO M-170, BUT PLACED IN CENTER OF WALL.
- (2) ALTERNATE - #3 BARS SPACED 12"±- LONGITUDINALLY WITH #2 BARS TRANSVERSELY AT 6" O.C. MAXIMUM SPACING SPOT WELDING OR TIED TO FORM CAGE. (BACK RODS MAY BE OMITTED).

#### NOTE A:

CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR.

#### NOTE B:

WALL THICKNESS (T) IS SHOWN AS NOMINAL AND MAY BE INCREASED AT PRODUCER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW FLAT OUTSIDE BOTTOM ON THE FLARE. INSIDE DIMENSIONS AS SHOWN.

DIMENSIONS AND REINFORCING

| D   | FRONT BAR   | BACK RODS | SLOPE   | A   | B    | C     | L    | E    | P    | R <sub>1</sub> | R <sub>2</sub> |
|-----|-------------|-----------|---------|-----|------|-------|------|------|------|----------------|----------------|
| 18" | 1-#3x7'2"   | 2'- 6"    | 2.2 : 1 | 9"  | 2'3" | 3'10" | 6'1" | 3'0" | 2'5" | 1'4"           | 1'0"           |
| 24" | 1-#3x9'10"  | 2'- 8"    | 2.4 : 1 | 10" | 3'8" | 2'6"  | 6'2" | 4'0" | 2'9" | 1'5"           | 1'2"           |
| 30" | 1-#4x11'8"  | 2'- 8"    | 2.4 : 1 | 12" | 4'6" | 1'8"  | 6'2" | 5'0" | 3'1" | 1'6"           | 1'3"           |
| 36" | 1-#4x13'10" | 3'- 0"    | 2.4 : 1 | 15" | 5'3" | 2'11" | 8'2" | 6'0" | 4'0" | 2'0"           | 1'8"           |
| 42" | 1-#4x13'10" | 3'- 0"    | 2.4 : 1 | 21" | 5'3" | 2'11" | 8'2" | 6'6" | 4'6" | 2'4"           | 1'10"          |

REV. DATE:

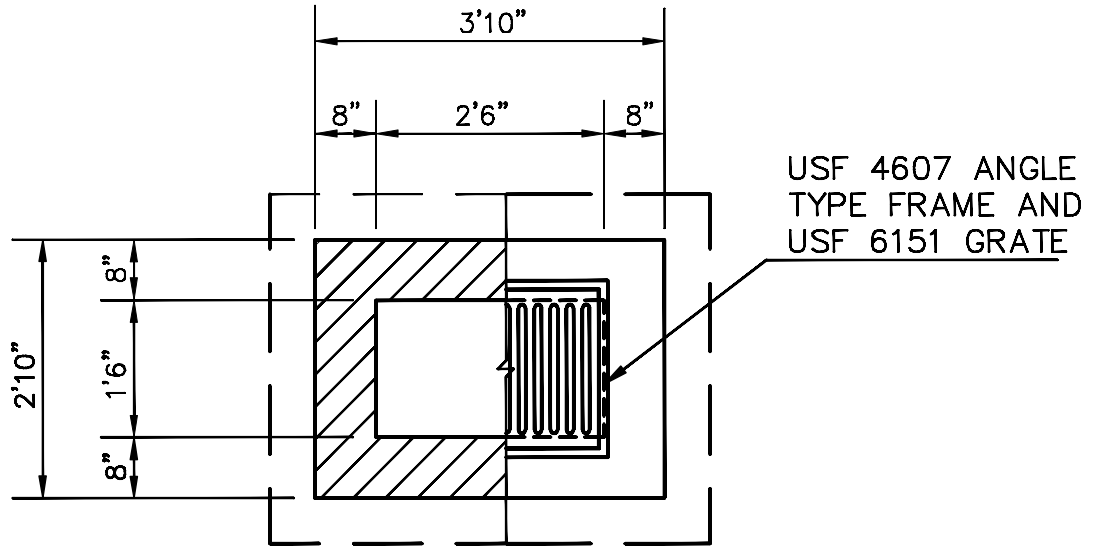
FLARED END SECTION

DETAIL NO:

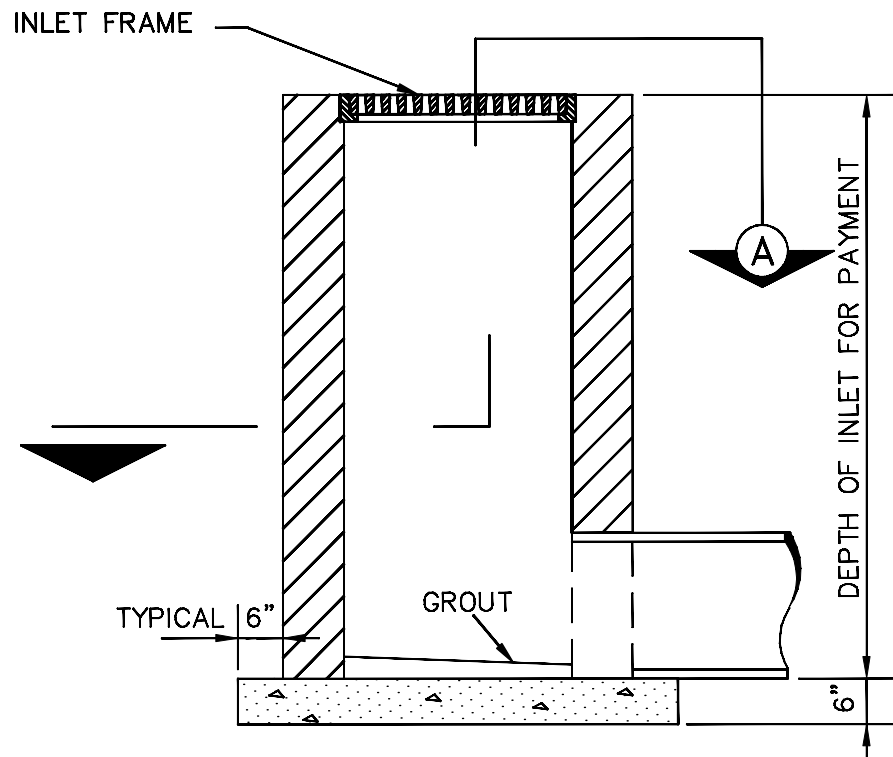
5012B

DATE: 06/30/1999

|            |                                |  |
|------------|--------------------------------|--|
| REV. DATE: | <div>SPILLWAY<br/>TYPE A</div> | DETAIL NO:<br><div>5013</div> DATE: 10/03/1988 |
|------------|--------------------------------|--|



SECTIONAL PLAN (A)



SECTION

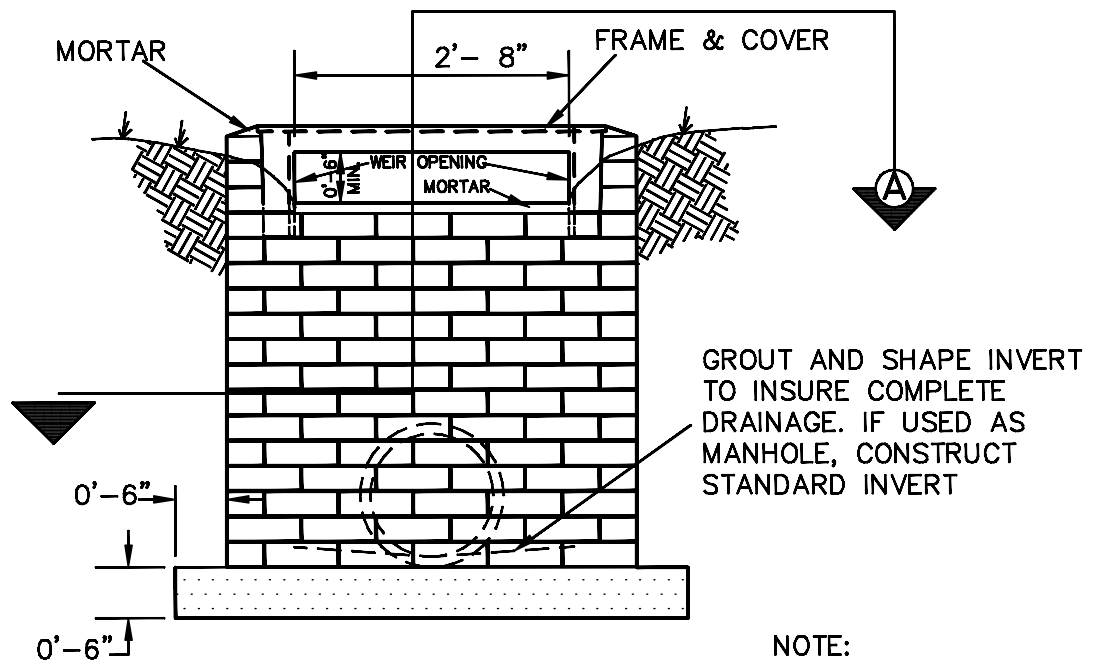
REV. DATE:  
08/22/2011

GRATE TYPE  
DROP INLET

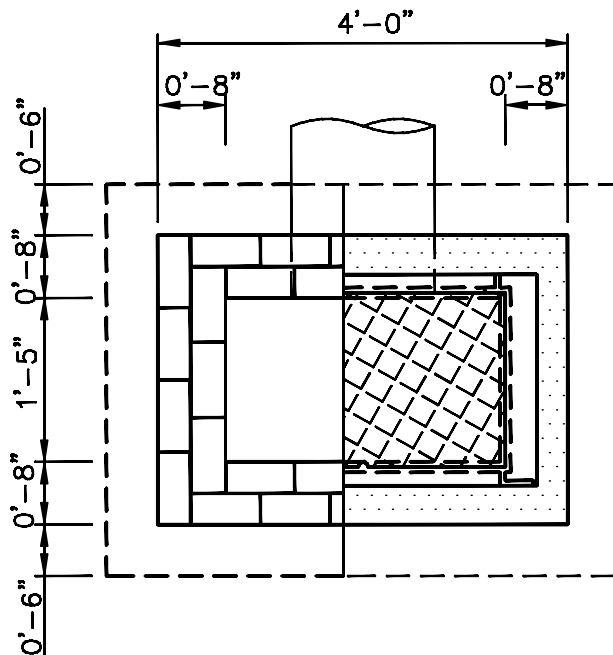
DETAIL NO:

5014A

DATE: 10/13/1988



NOTE:  
OPENING MAY BE  
ON ALL SIDES IF  
DESIRED.



SECTIONAL PLAN

(A)

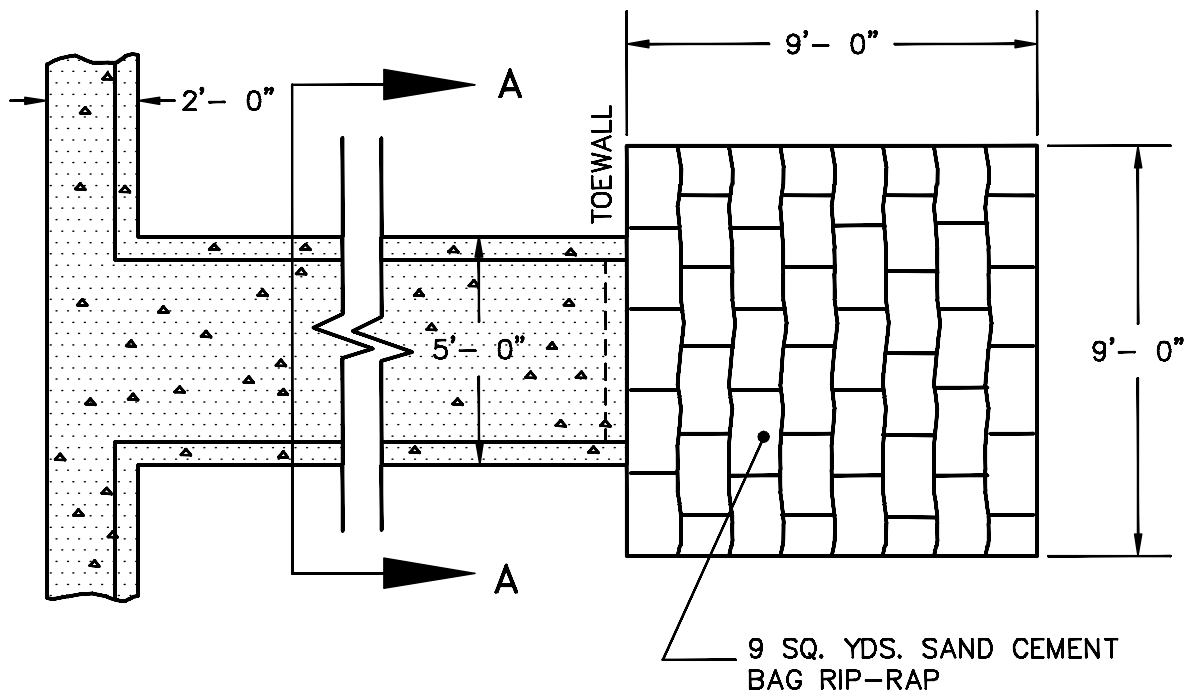
REV. DATE:

AREA DRAIN  
TYPE A

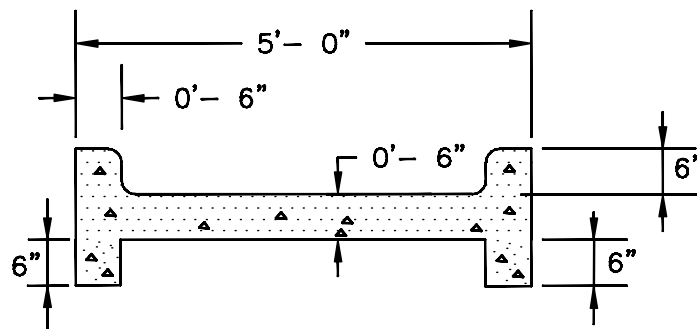
DETAIL NO:

5015

DATE: 10/03/1988



PLAN



SECTION A-A

REV. DATE:

# CURBED CONCRETE FLUME

DETAIL NO:

5016

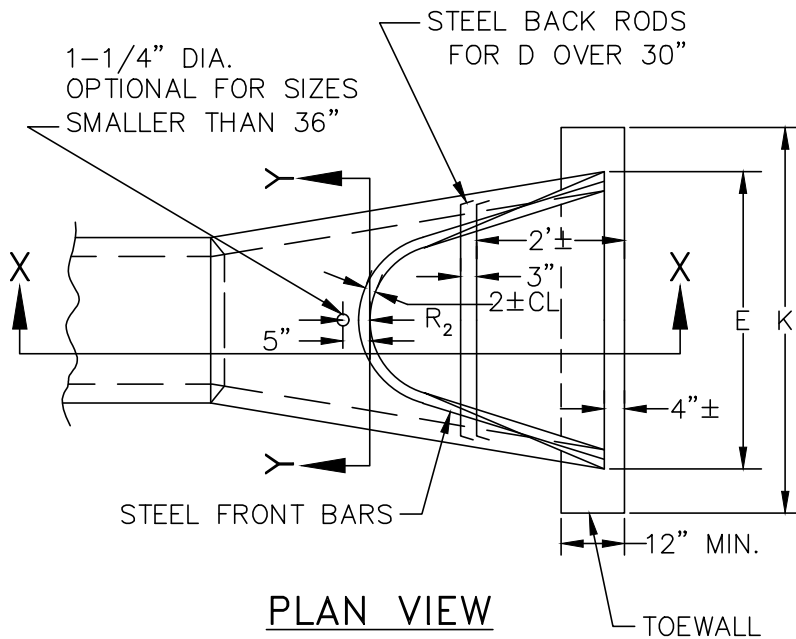
DATE: 10/10/1988



GENERAL NOTES:

1. TOEWALLS ARE REQ'D FOR OUTLETS OF CONC. STORM DRAINS, EXCEPT WHERE DITCH PAVING OR OTHER EROSION PROTECTION IS PROVIDED OR WHERE THE OUTLET VELOCITY IS LESS THAN 8 FT/SEC. TOEWALLS ARE NOT REQUIRED FOR SIDE DRAINS, SLOPE DRAINS OR INLETS OF STORM DRAINS. THIS CRITERIA MAY BE VARIED WHERE SPECIFIED BY THE DESIGNER OR ENGINEER.
2. PRECAST TOEWALLS SHALL BE CL 'A' CONCRETE; CAST IN PLACE TOEWALLS MAY BE CL 'A' OR 'B' CONCRETE AND MAY BE TRENCH FORMED. CLASSES OF CONCRETE SHALL COMPLY WITH THE LATEST EDITION OF THE GA DOT SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES.
3. CENTERLINE OF FLARED END SECTION WILL ALIGN WITH CENTERLINE OF PIPE. IF PIPE IS SKEWED, THE EMBANKMENT SLOPE WILL BE WARPED TO CONFORM WITH THE END SECTION.
4. FLARED END SECTION SHALL BE JOINTED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET (SEC. 848).
5.  $T$  = PIPE WALL THICKNESS ( $0.0833D+1$ " TYPICAL).

FOR DIMENSION CHART SEE DETAIL 5017A



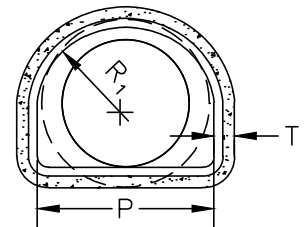
PLAN VIEW

NOTE:

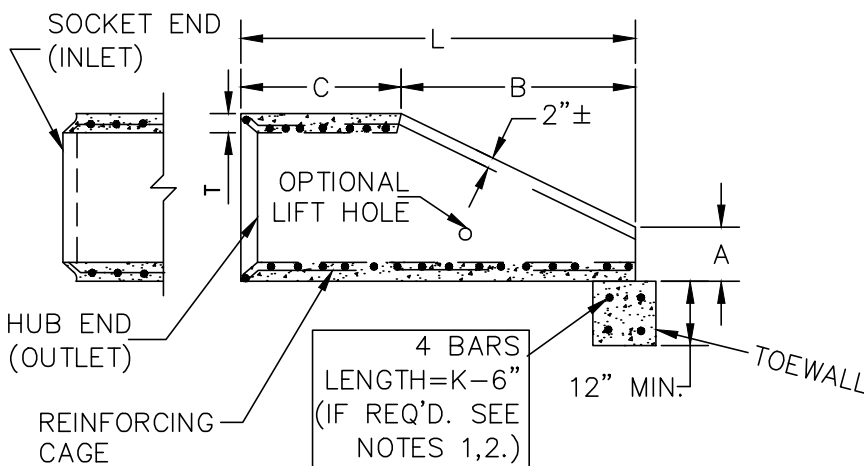
CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQ'D. FOR OUTLETS, SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT.

INSTALLATION:

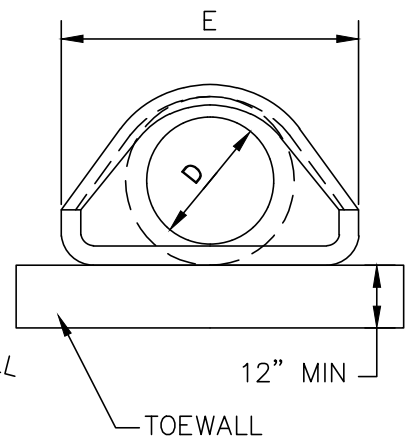
(D OVER 30") CABLE, CHAIN, OR LIFTING PIN WILL EXTEND THRU 1-1/4" HOLE WITH A PLATE OR REBAR CONNECTED INSIDE THE CONC. SECTION TO PROVIDE ADEQUATE BEARING AREA OR LIFTING ASSEMBLY DEVICE MAY BE USED TO GIVE 3 POINTS. HOOKS CONNECTED DIRECTLY TO CONCRETE IS NOT PERMITTED. DAMAGE FROM IMPROPER HANDLING SHALL BE CAUSE FOR REJECTION.



SECTION Y-Y



SECTION X-X



FRONT

REV. DATE:  
03/31/2006

CONCRETE  
FLARED END SECTION

DETAIL NO:

5017

DATE: 10/19/1995



DIMENSION AND REINFORCING FOR CONCRETE FLARED END SECTION  
(± 1" TOLERANCE)

OUTLET TOEWALL  
(IF REQ'D.)

| PIPE DIA. | FRONT BARS  | BACK BARS  | SLOPE | A   | B    | C     | L    | E    | P    | R <sub>1</sub> | R <sub>2</sub> | K =<br>E + 2' | CU.<br>YDS. |
|-----------|-------------|------------|-------|-----|------|-------|------|------|------|----------------|----------------|---------------|-------------|
| 12"       | 1-#3X5'4"   | NOT REQ'D. | 2.2:1 | 4"  | 2'0" | 4'1"  | 6'1" | 2'0" | 1'8" | 10"            | 9"             | 4'0"          | .148        |
| 15"       | 1-#3X6'0"   | NOT REQ'D. | 2.2:1 | 6"  | 2'3" | 3'10" | 6'1" | 2'6" | 2'0" | 1'0"           | 11"            | 4'6"          | .167        |
| 18"       | 1-#3X7'2"   | NOT REQ'D. | 2.2:1 | 9"  | 2'3" | 3'10" | 6'1" | 3'0" | 2'5" | 1'4"           | 1'0"           | 5'0"          | .185        |
| 24"       | 1-#3X9'10"  | NOT REQ'D. | 2.4:1 | 10" | 3'8" | 2'6"  | 6'2" | 4'0" | 2'9" | 1'5"           | 1'2"           | 6'0"          | .222        |
| 30"       | 1-#3X11'8"  | NOT REQ'D. | 2.4:1 | 12" | 4'6" | 1'8"  | 6'2" | 5'0" | 3'1" | 1'6"           | 1'3"           | 7'0"          | .259        |
| 36"       | 1-#3X13'10" | 2-#4x6'4"  | 2.4:1 | 15" | 5'3" | 2'11" | 8'2" | 6'0" | 4'0" | 2'0"           | 1'8"           | 8'0"          | .296        |
| 42"       | 1-#3X13'10" | 2-#4x7'4"  | 2.4:1 | 21" | 5'3" | 2'11" | 8'2" | 6'6" | 4'6" | 2'4"           | 1'10"          | 8'6"          | .315        |

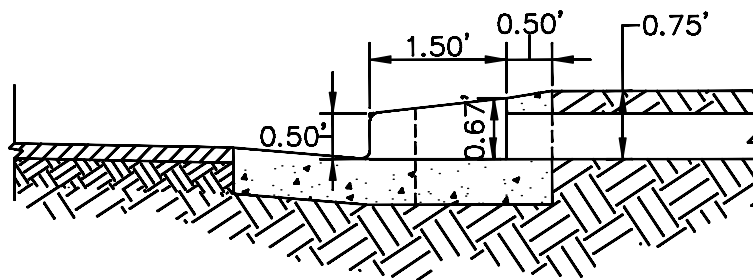
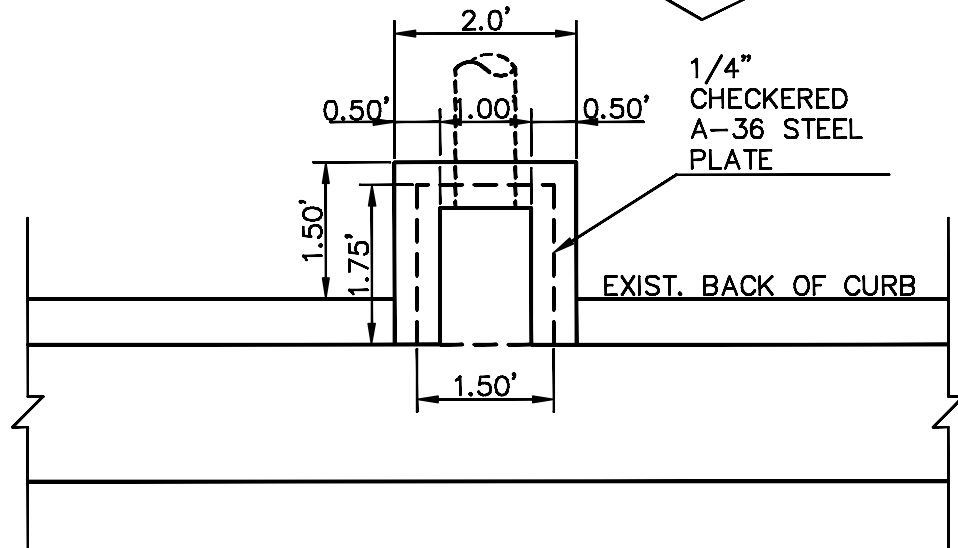
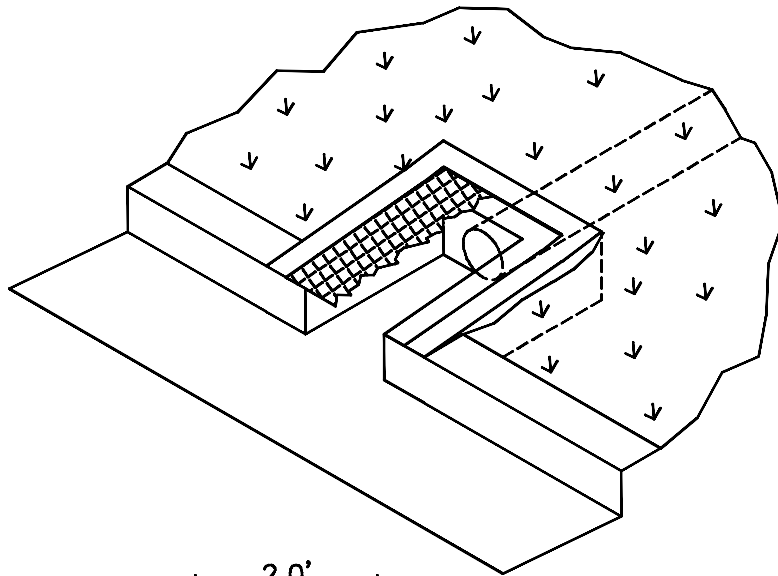
REV. DATE:

CONCRETE FLARED END  
SECTION DIMENSION  
CHART

DETAIL NO:

5017A

DATE: 10/19/1995



REV. DATE:

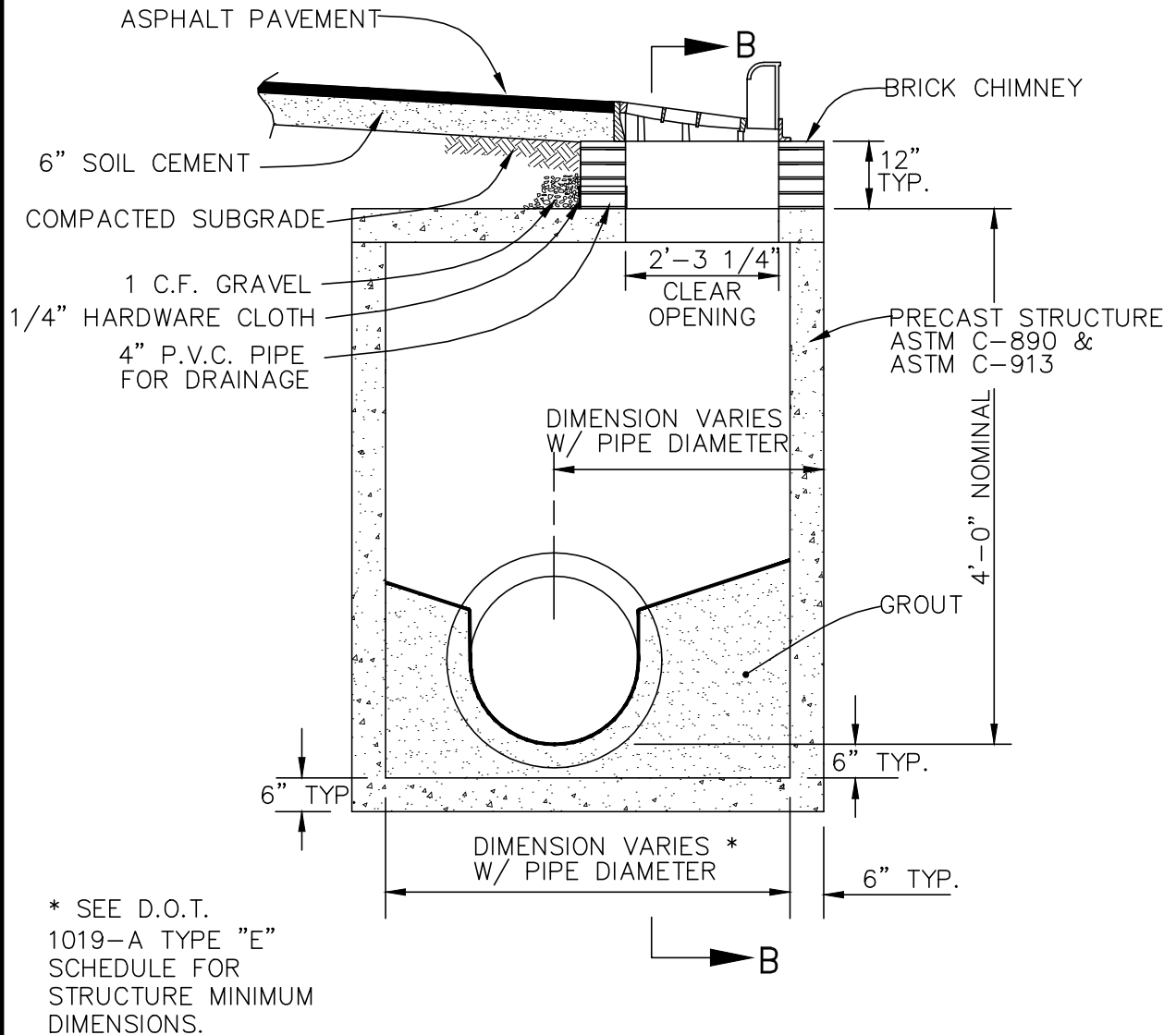
# CURB OUTLET STRUCTURE

DETAIL NO:

5018

DATE: 08/25/2000

NOTE: WHEN USING GA DOT STD  
1019A TYPE 'E'; USF 5130 FRAME,  
6168 GRATE, & 5131 HOOD, OR  
EQUAL MUST BE USED.



SECTION OF  
GA DOT 1019A TYPE 'E' MODIFIED  
NTS

REV. DATE:  
03/20/2013

GA DOT 1019A TYPE 'E' MODIFIED  
W/ USF 5130 FRAME, 6168  
GRATE, & 5131 HOOD

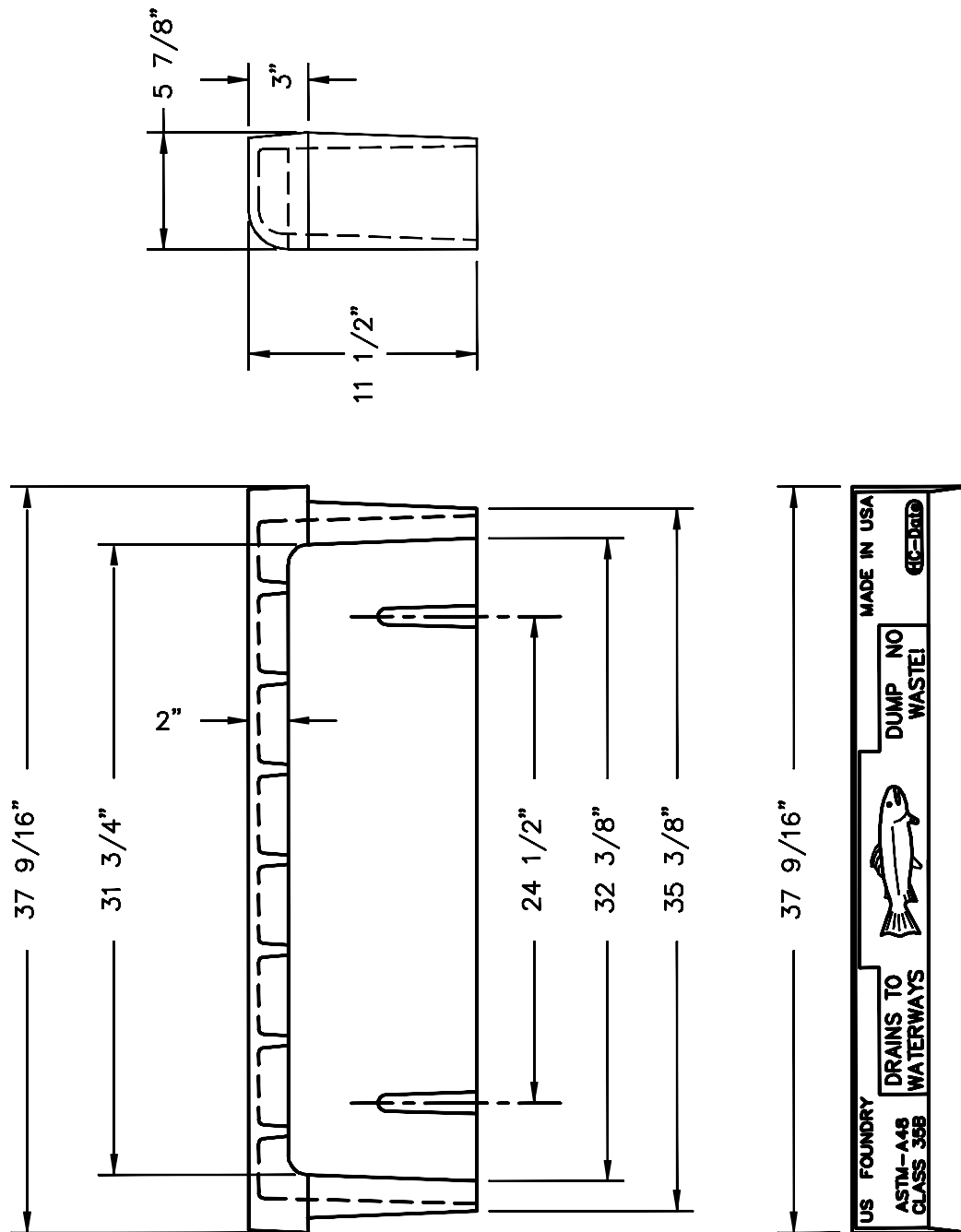
DETAIL NO:

5019

DATE: 02/02/2001



DATE: 06/10/2009



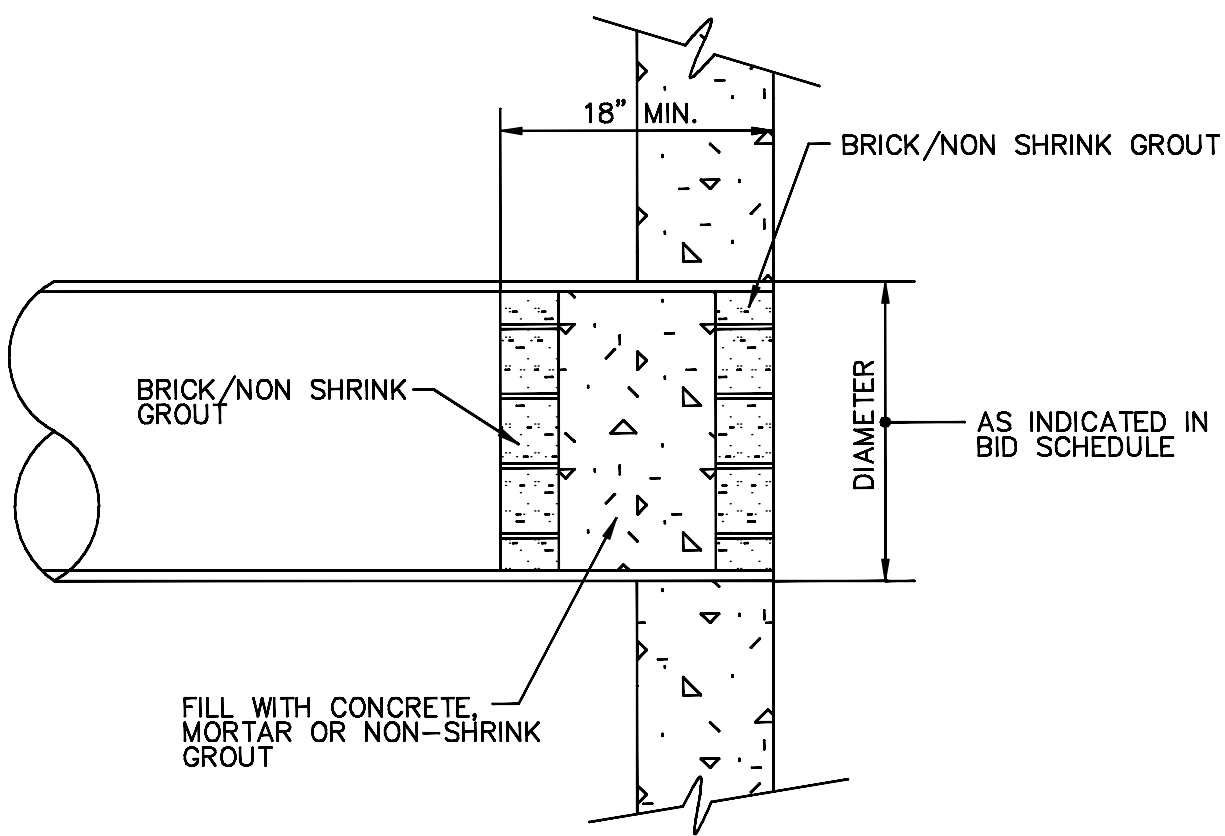
REV. DATE:

USF 5131 HOOD  
NAME PLATE WITH FISH

DETAIL NO:

5019B

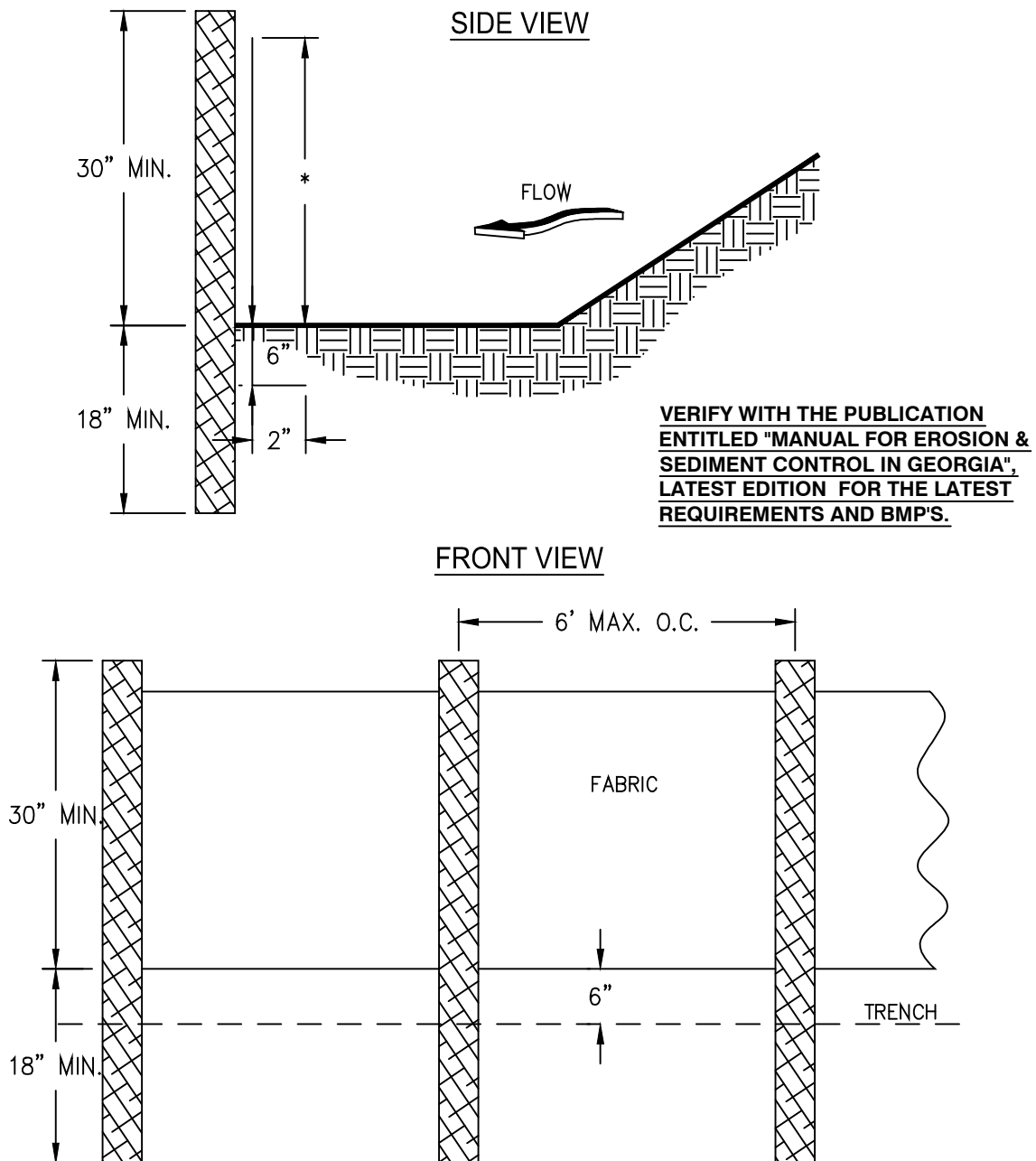
DATE: 03/20/2013



N.T.S.

|  |                           |   |
|--|---------------------------|---|
|  | <p>PLUG EXISTING PIPE</p> | <p>DETAIL NO:</p> <p>5021</p> <p>DATE: 08/24/1999</p> |
|--|---------------------------|---|

# SILT FENCE - TYPE NON-SENSITIVE



NOTES:

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

REV. DATE:  
10/14/2008  
07/07/2015  
05/15/2016

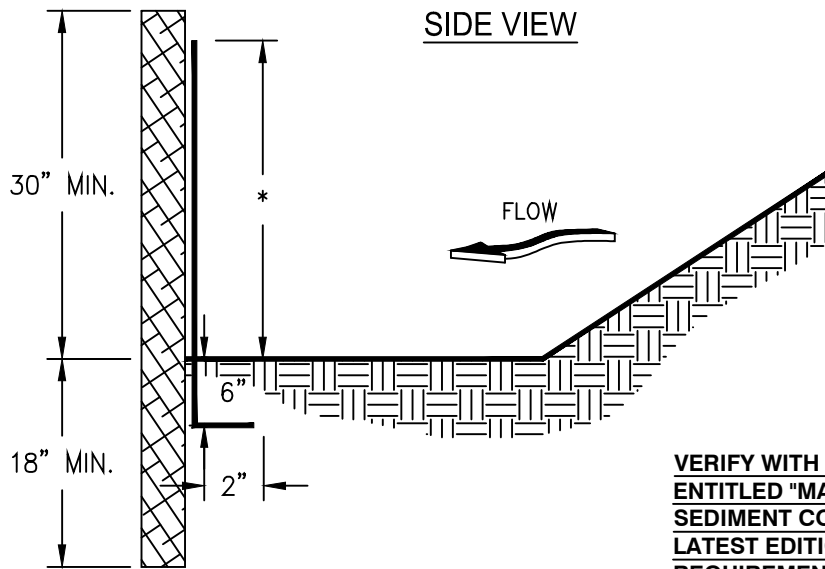
**Sd1-NS  
TEMPORARY SILT FENCE  
NON-SENSITIVE**

DETAIL NO:

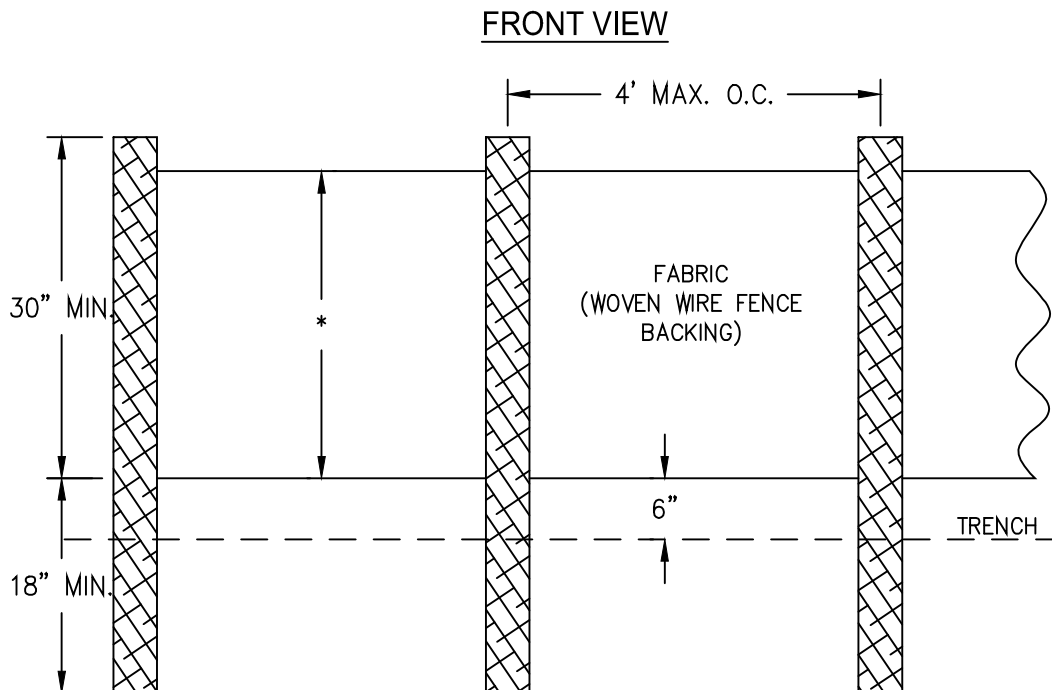
**6002A**

DATE: 03/03/1993

# SILT FENCE - TYPE SENSITIVE



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**



NOTES:

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

REV. DATE:  
07/07/2015  
05/15/2016

**Sd1-S**  
**TEMPORARY SILT FENCE**  
**SENSITIVE**

DETAIL NO:

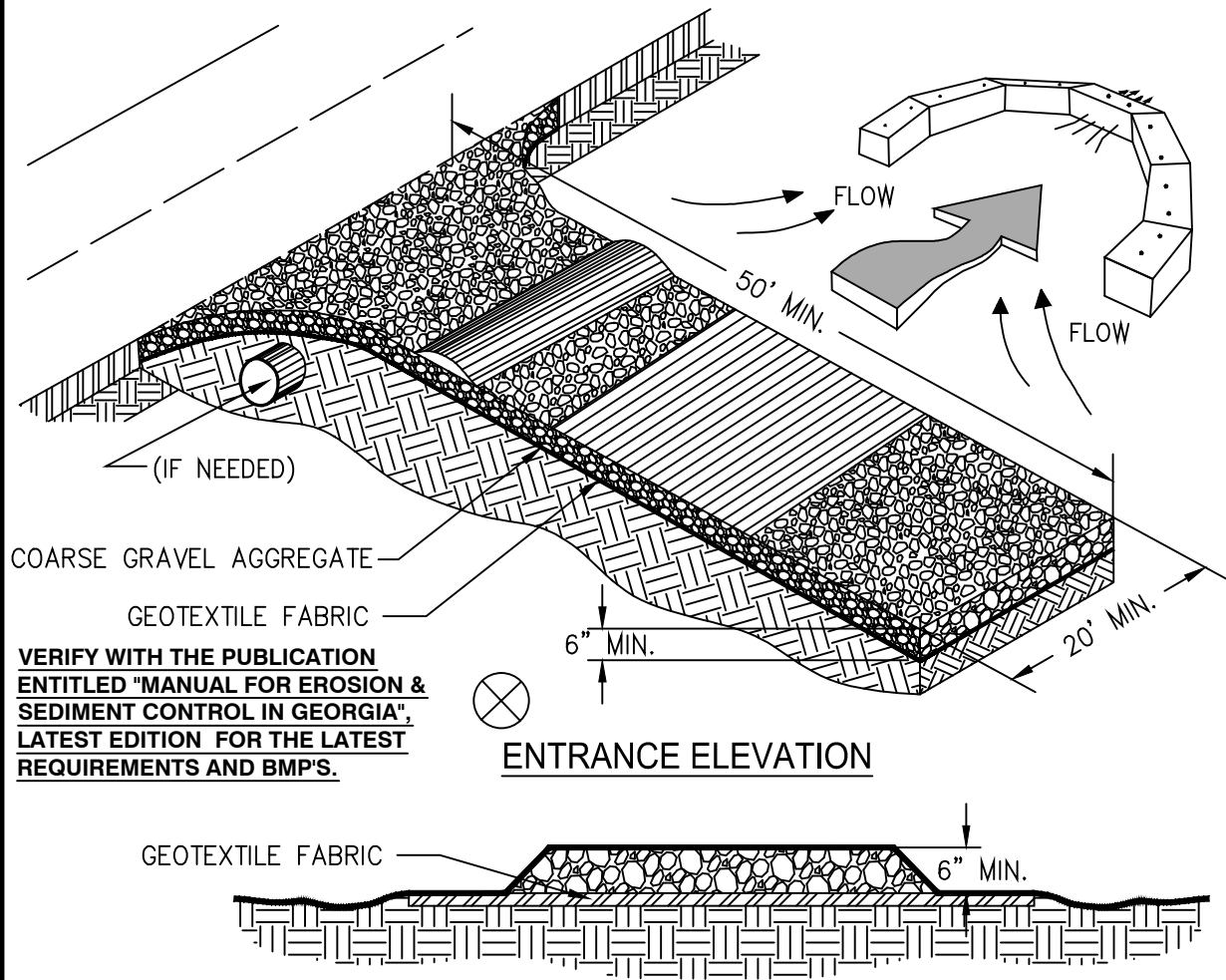
**6002B**

DATE: 03/03/1994



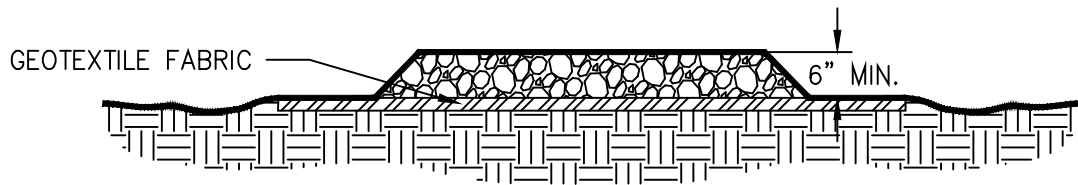
# CRUSHED STONE CONSTRUCTION EXIT

## EXIT DIAGRAM



VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

## ENTRANCE ELEVATION



### NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

REV. DATE:  
10/02/2008  
07/08/2015  
05/15/2016  
09/09/2016

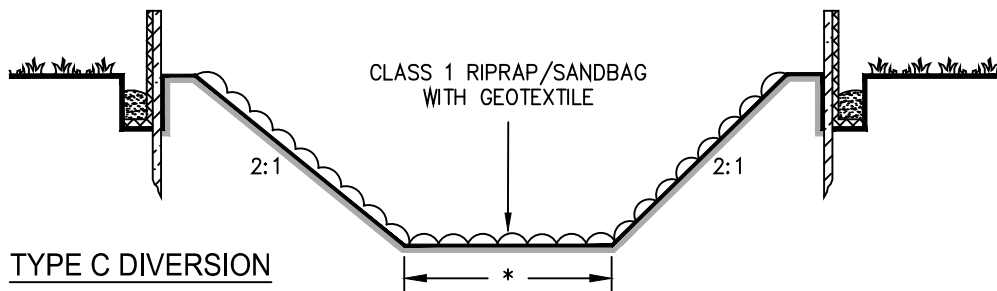
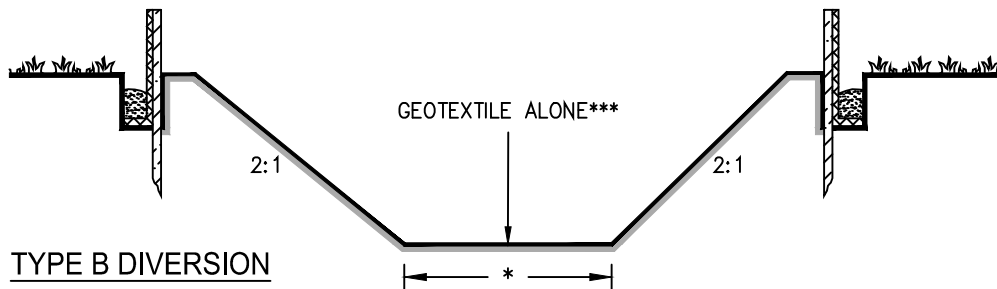
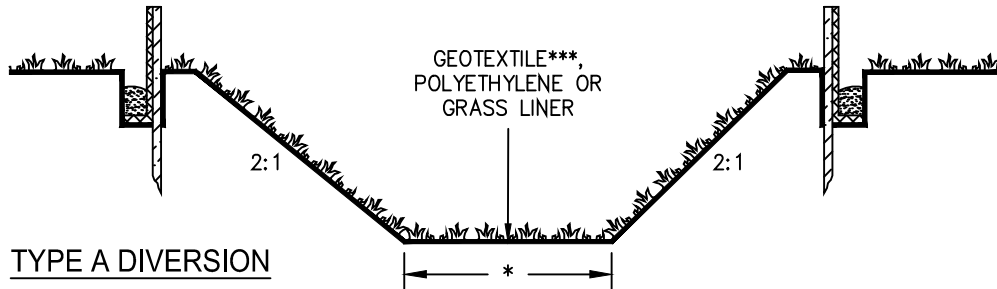
Co  
CONSTRUCTION EXIT

DETAIL NO:

6004

DATE: 01/07/1999

# TO BE SHOWN ON EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN



\* 6' MINIMUM OR WIDTH OF EXISTING STREAM (WHICHEVER IS GREATER)

\*\* SEDIMENT BARRIER AND FILTER CLOTH SHOULD BE ENTRENCHED IN THE SAME TRENCH.

\*\*\*GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.5

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

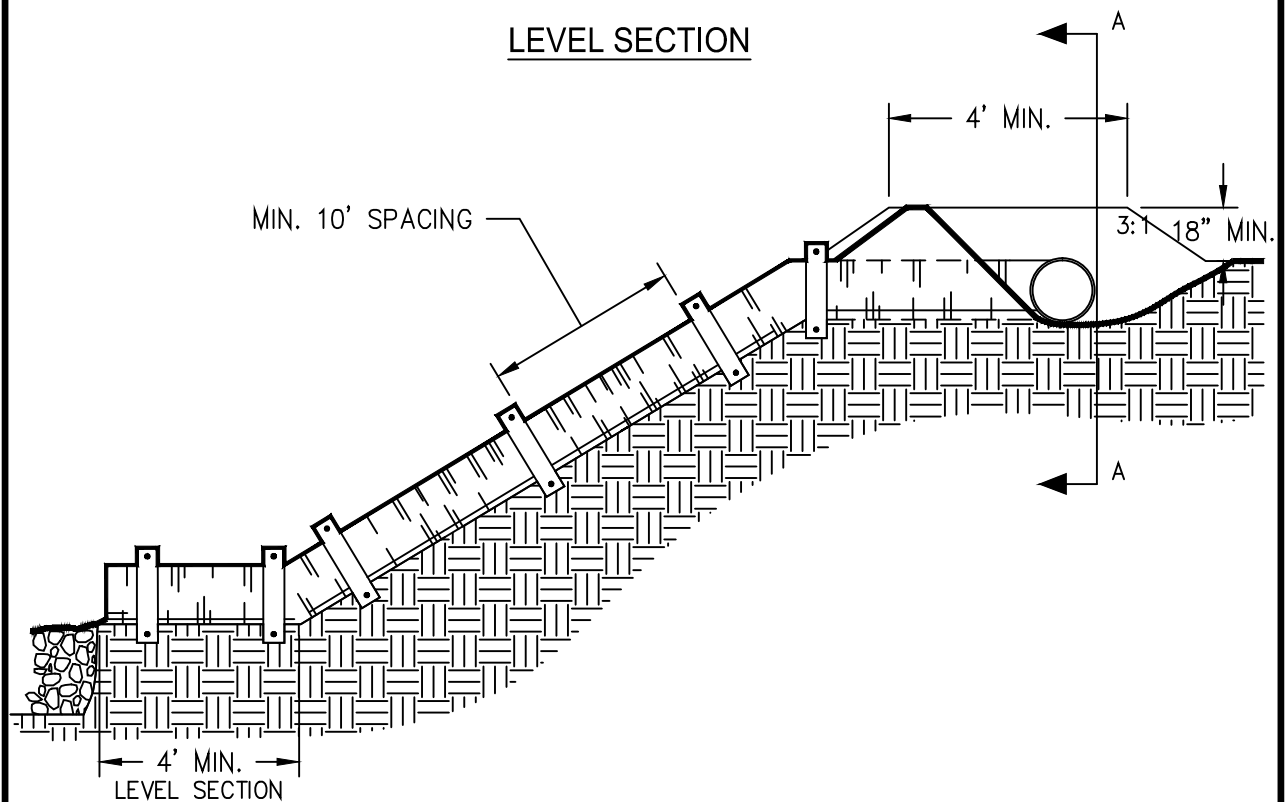
REVISED:  
10/07/2008  
05/15/2016

Di  
DIVERSION

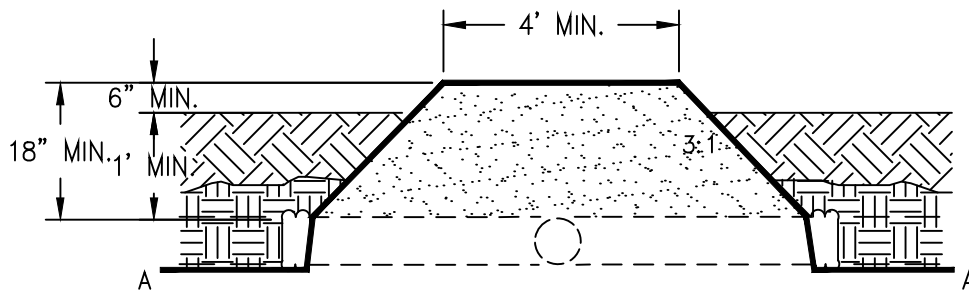
6008

DATE: 09/27/1988

# DOWNDRAIN PIPE AND INLET DETAIL



INLET DETAIL SECTION A-A



MAKE ALL PIPE CONNECTIONS WATERTIGHT AND SECURE SO THAT THE JOINTS WILL NOT SEPARATE IN USE.

VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

REV. DATE:  
10/09/2008  
05/15/2016

Dn1  
TEMPORARY DOWNRAIN  
STRUCTURE-FLEXIBLE

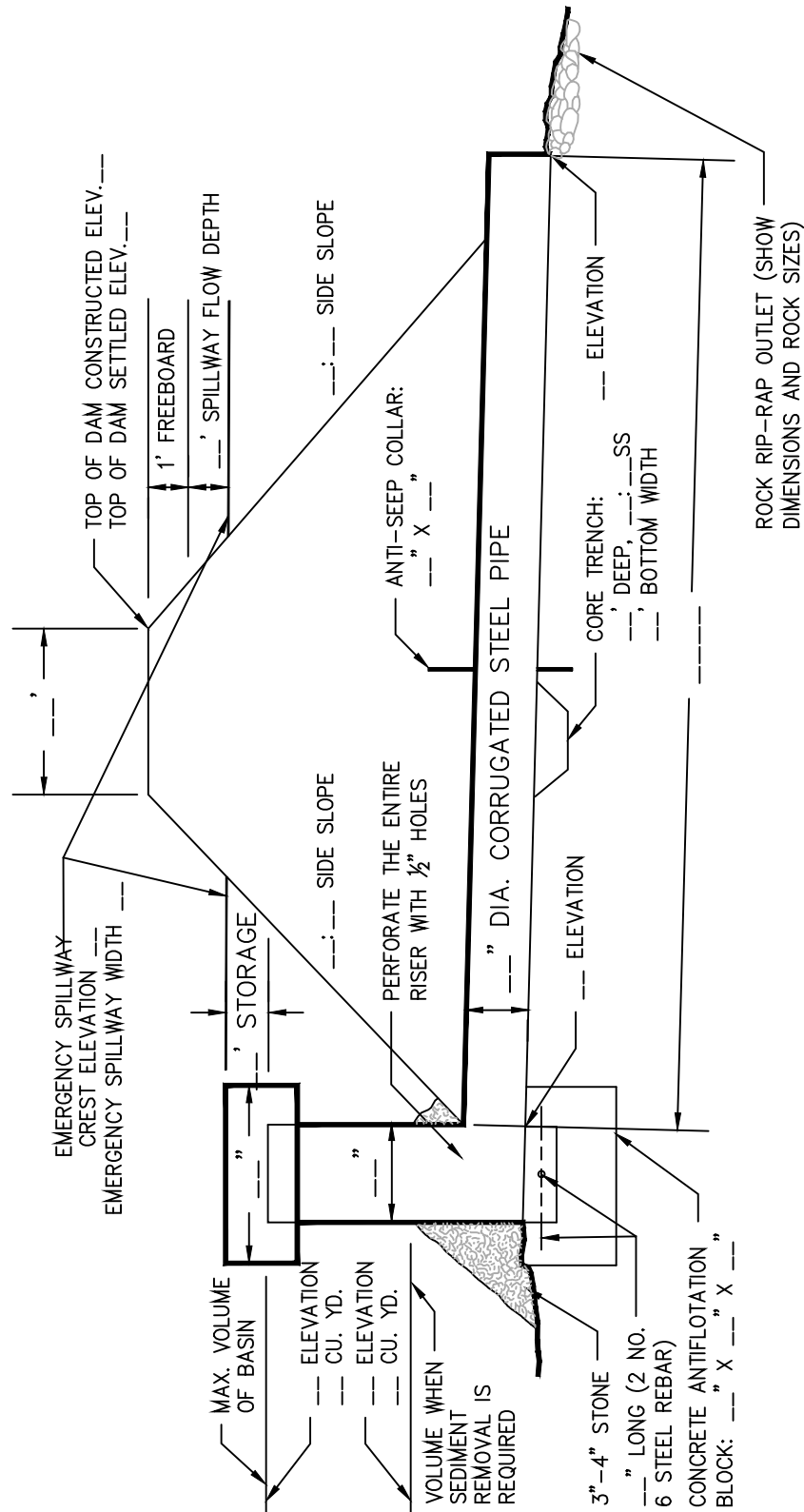
DETAIL NO:

6010

DATE: 09/27/1988

# TEMPORARY SEDIMENT BASIN

## CROSS-SECTIONAL DETAIL



VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

REV. DATE:  
10/15/2008  
07/10/2015  
05/15/2016

Sd3  
TEMPORARY  
SEDIMENT BASIN

DETAIL NO:

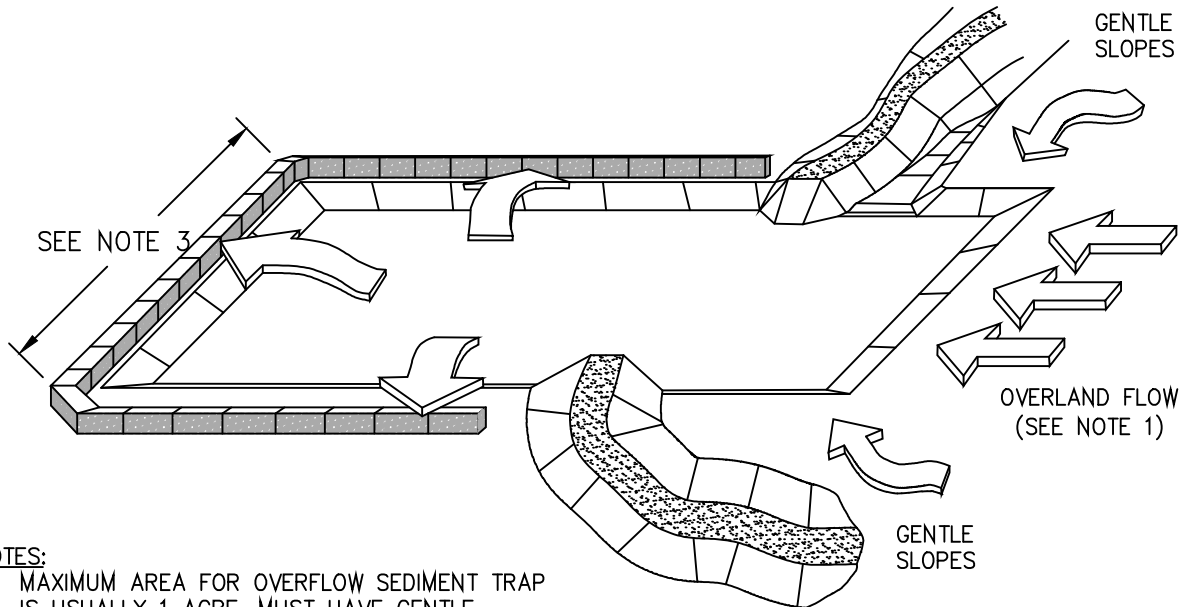
6016

DATE: 09/27/1988

# TEMPORARY SEDIMENT TRAP

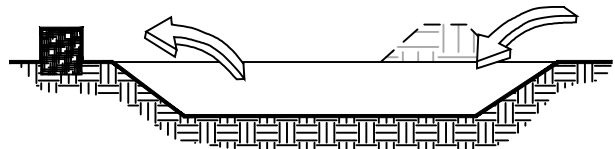
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

## OVERFLOW



### NOTES:

1. MAXIMUM AREA FOR OVERFLOW SEDIMENT TRAP IS USUALLY 1 ACRE. MUST HAVE GENTLE SLOPES (LESS THAN 2% GRADUALLY) AND PREDOMINATELY OVERLAND SHEET FLOW.
2. MAXIMUM PERMANENT WET DEPTH IS 2 FEET. OVERFLOW SEDIMENT TRAPS MAY NOT BE EFFECTIVE FOR HIGH GROUNDWATER TABLE AND INFLOWS.
3. USE THE MOST PERMEABLE SEDIMENT CONTROL IN LABELED AREA SO AS TO MAXIMIZE TRAVEL TIME AND SETTLING OF SEDIMENT.



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REV. DATE:  
10/16/2008  
07/10/2015  
05/15/2016

Sd4-1  
**TEMPORARY SEDIMENT TRAP  
OVERFLOW**

DETAIL NO:

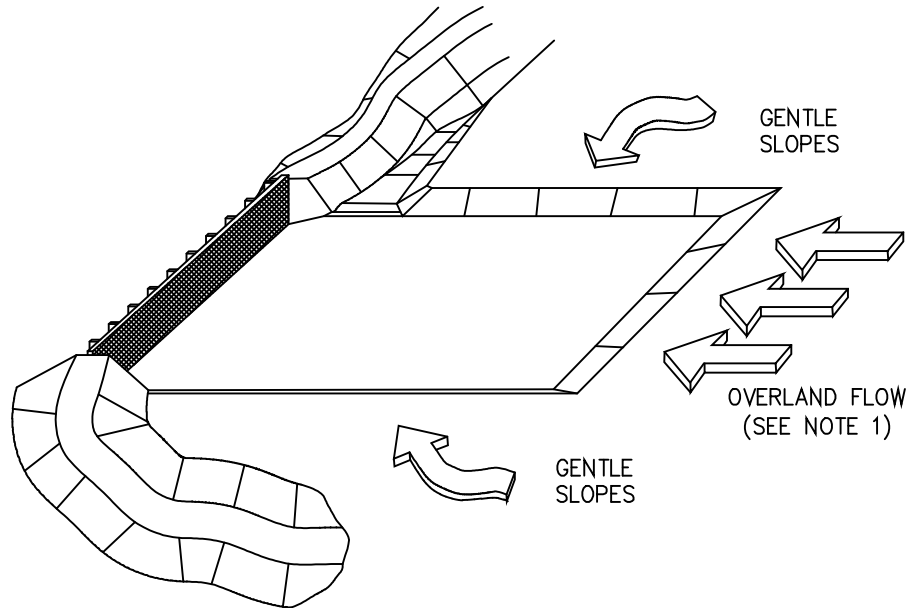
**6016A**

DATE: 09/27/1988

# TEMPORARY SEDIMENT TRAP

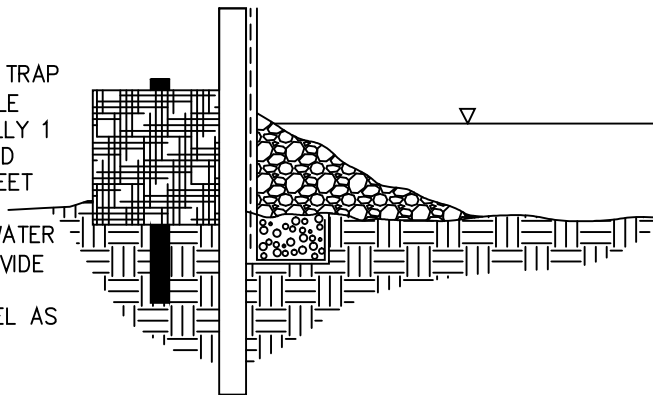
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

## COMBINATION OUTLET



### NOTES:

1. MAXIMUM AREA FOR SEDIMENT TRAP WITH A SILT FENCE/STRAW BALE COMBINATION OUTLET IS USUALLY 1 ACRE WITH GENTLE SLOPES AND PREDOMINANTLY OVERLAND SHEET FLOW.
2. MAXIMUM DEPTH OF PONDED WATER IS USUALLY 12" OR LESS. PROVIDE EMERGENCY SPILLWAY BY CONSTRUCTING RIPRAP CHANNEL AS NECESSARY.



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REV. DATE:  
10/16/2008  
07/10/2015  
05/15/2016

Sd4-2  
**TEMPORARY SEDIMENT TRAP  
COMBINATION OUTLET**

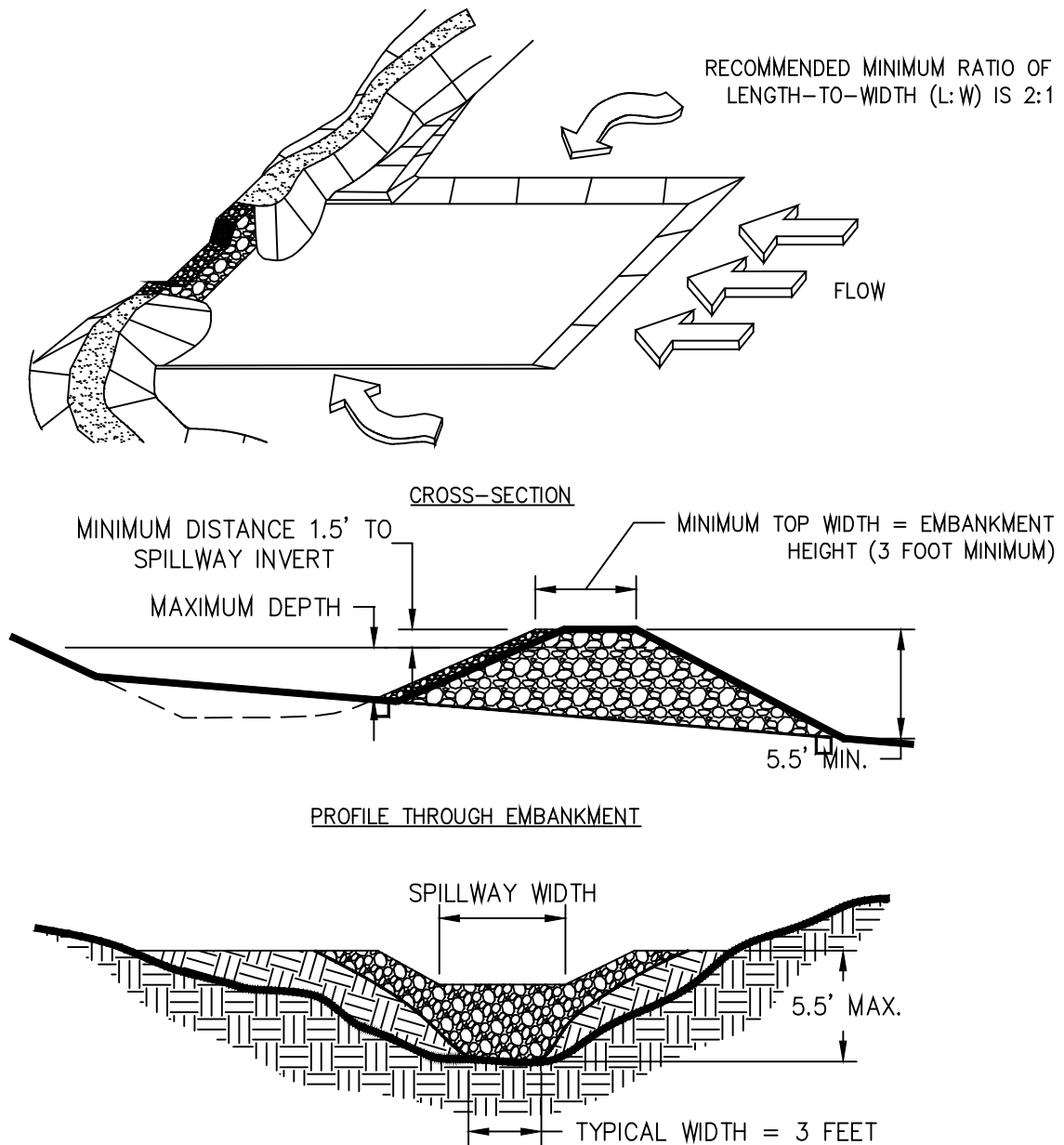
DETAIL NO:

**6016B**

DATE: 09/27/1988

# TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT  
ROCK OUTLET



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REV. DATE:  
10/16/2008  
07/10/2015  
05/15/2016

Sd4-3  
TEMPORARY SEDIMENT TRAP  
ROCK OUTLET

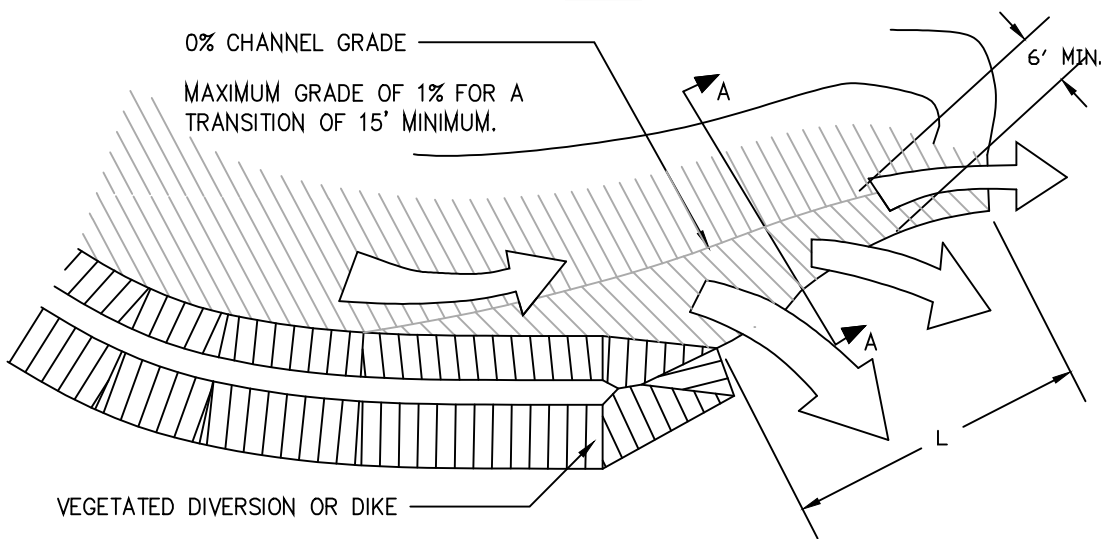
DETAIL NO:

6016C

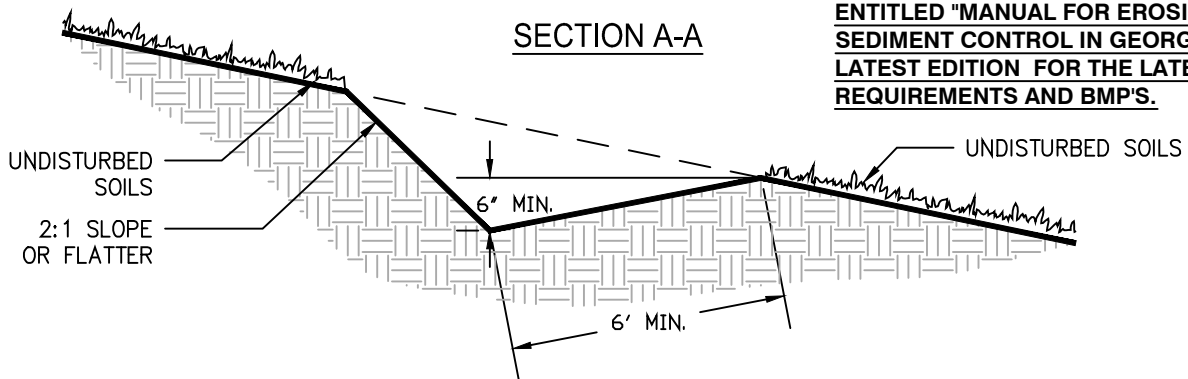
DATE: 09/27/1988

# LEVEL SPREADER

## PLAN

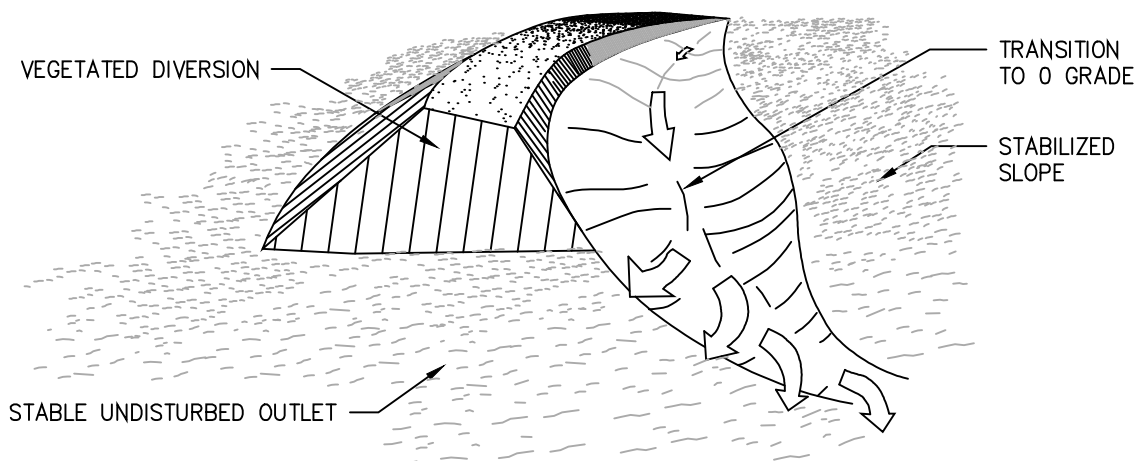


## SECTION A-A



VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

## ISOMETRIC VIEW - NOT TO SCALE



REV. DATE:  
10/14/2008  
07/13/2015  
05/15/2016

Lv  
LEVEL SPREADER

DETAIL NO:

6020

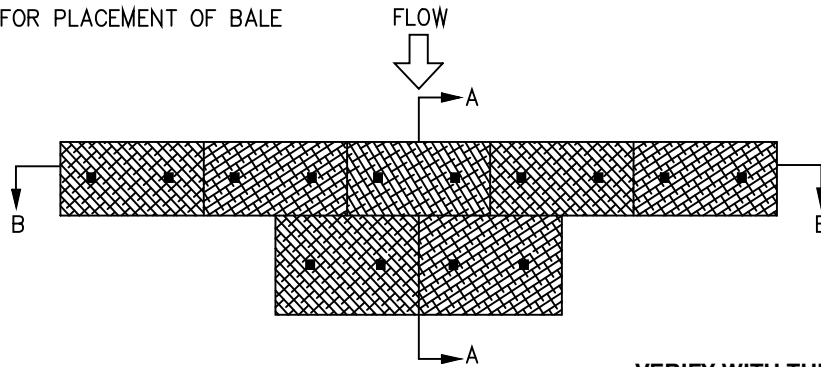
DATE: 09/27/1988



# TYPICAL STRAW BALE CHECK DAM

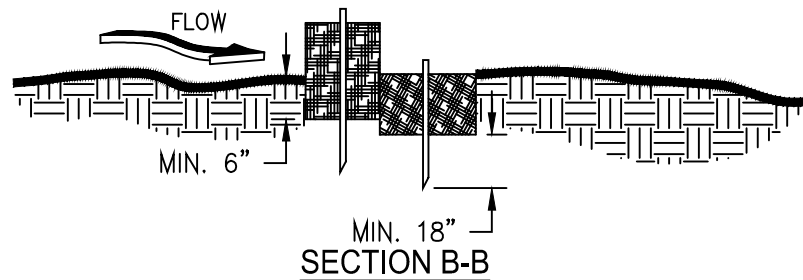
## PLAN

SEE DETAIL FOR PLACEMENT OF BALE

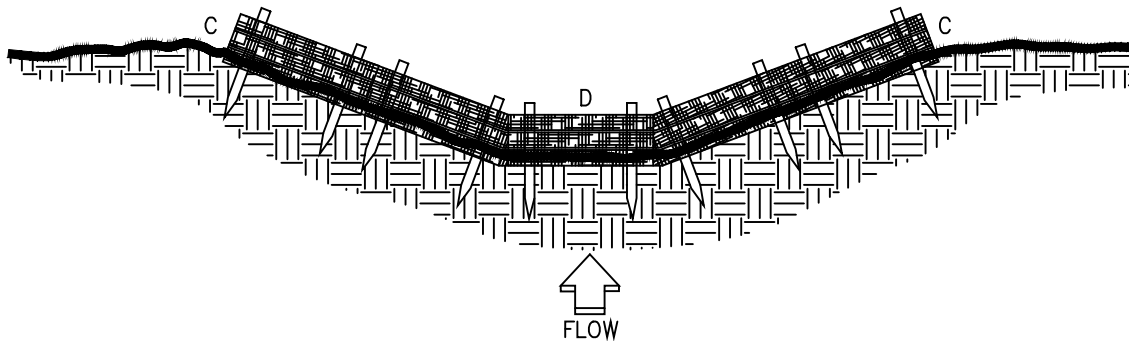


## SECTION A-A

VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.



## SECTION B-B



### NOTES:

1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

REV. DATE:  
07/14/2015  
05/15/2016

Cd-Hb  
CHECK DAM-HAY BALE

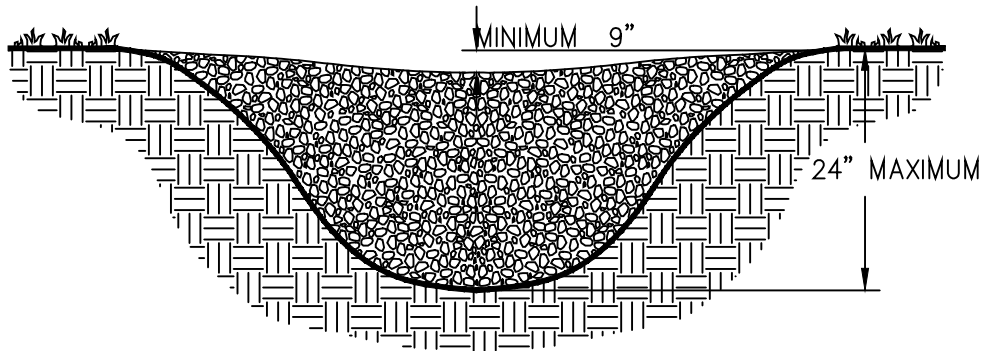
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6023

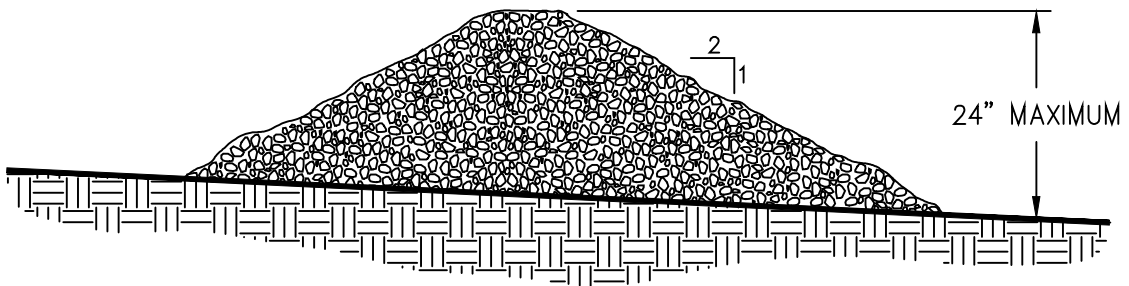
DATE: 10/01/2008

# STONE CHECK DAM

## CROSS SECTION



## PROFILE VIEW



### NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REV. DATE:  
07/14/2015  
05/15/2016

Cd-S  
STONE CHECK DAM

DETAIL NO:

6023A

DATE: 10/01/2008

# STONE CHECK DAM

## SPACING BETWEEN CHECK DAMS



A = THE TOE OF THE UPSTREAM CHECK DAM.  
B = TOP OF THE DOWNSTREAM CHECK DAM.  
L = THE DISTANCE SUCH THAT POINTS A AND  
B ARE OF EQUAL ELEVATION.

VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

REV. DATE:  
07/14/2015  
05/15/2016

Cd-S  
STONE CHECK DAM  
SPACING

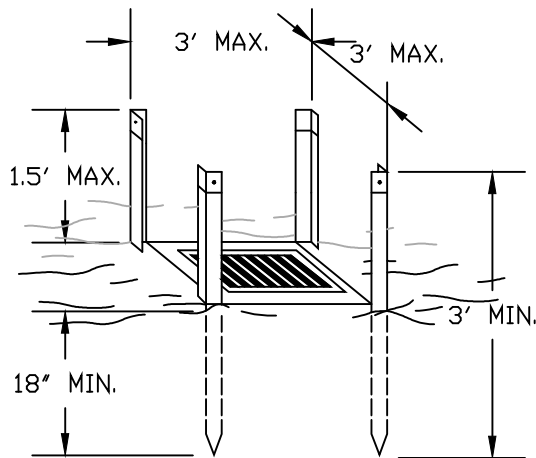
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6023B

DATE: 10/01/2008

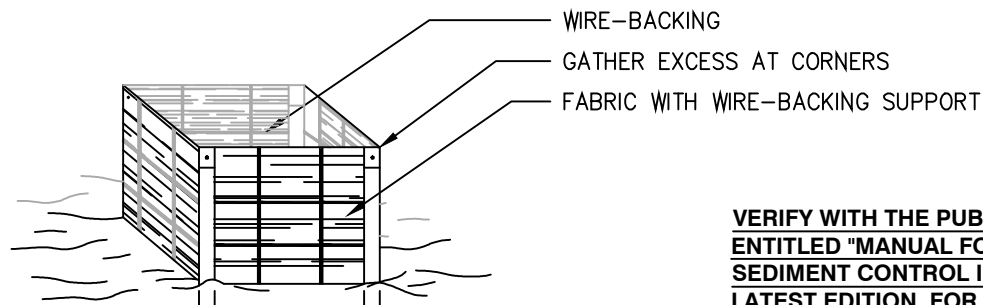
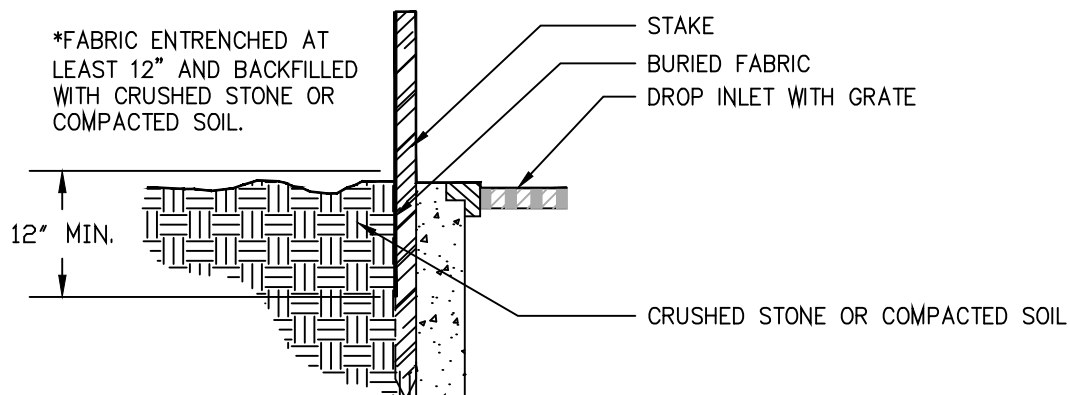
# FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

## STEEL FRAME AND SILT FENCE INSTALLATION



### NOTES:

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.



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ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REV. DATE:  
07/14/2015  
05/15/2016

**Sd2-F  
INLET SEDIMENT TRAP  
(FABRIC AND FRAME)**

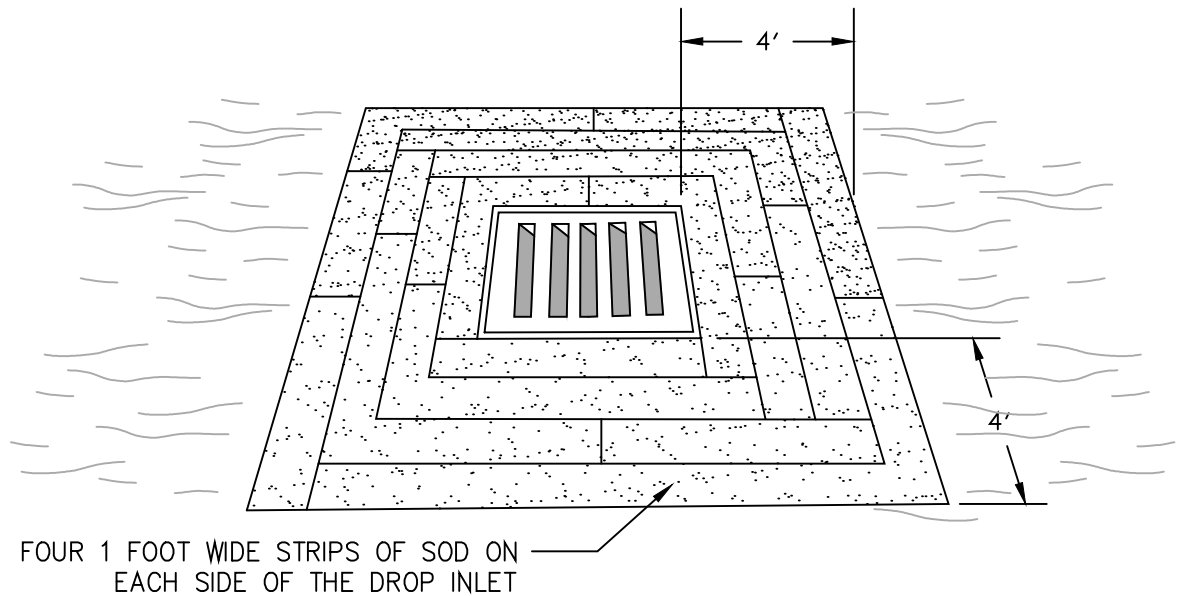
DETAIL NO:

**6024A**

DATE: 01/05/1999

# INLET SEDIMENT TRAP

SOD STRIPS PROTECT INLET AREA FROM EROSION  
(SOURCE: VA SWCC)



VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

REV. DATE:  
07/14/2015  
05/15/2016

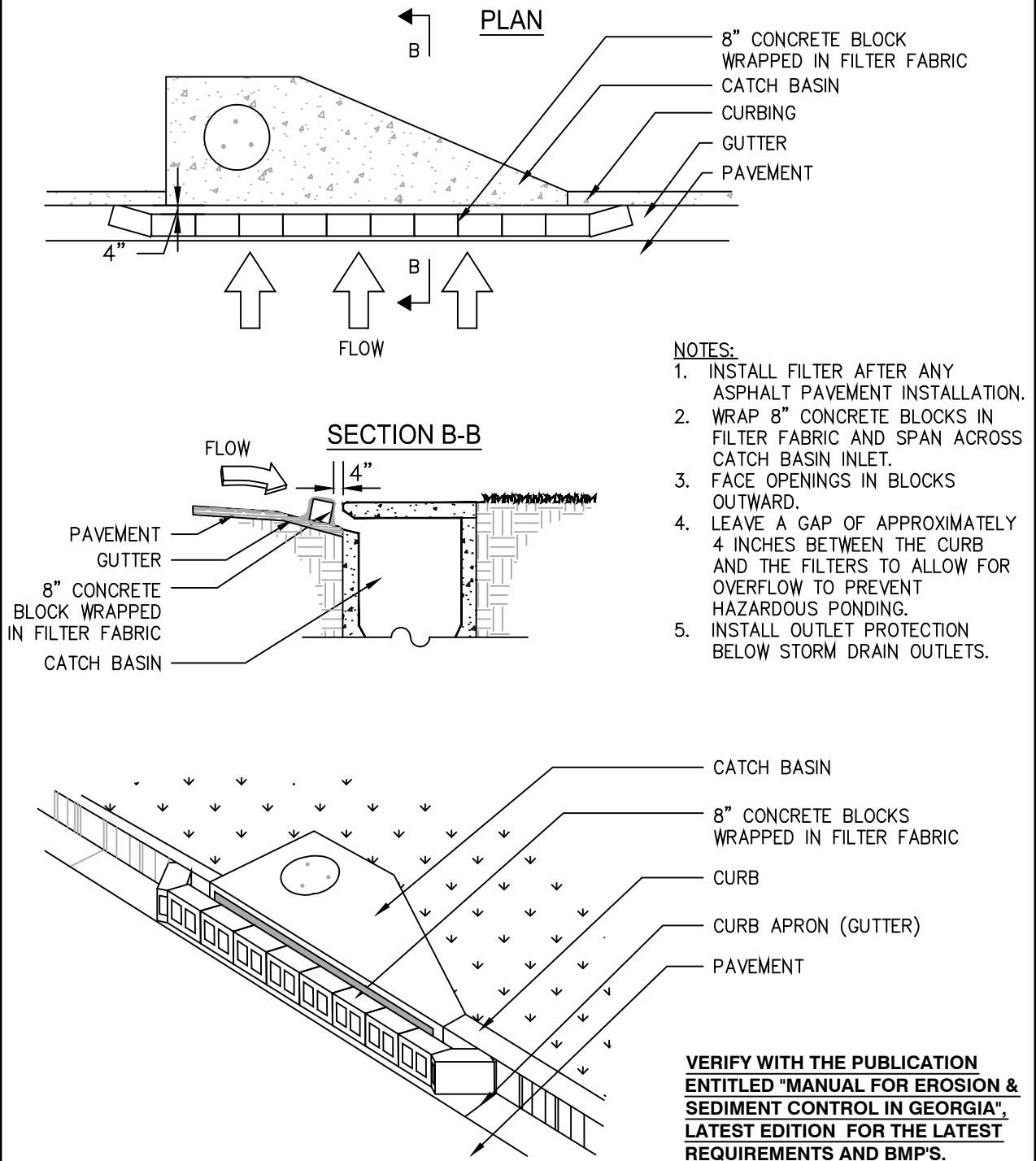
Sd2-S  
**INLET SEDIMENT TRAP**  
SOD STRIPS PROTECT INLET AREA FROM EROSION

DETAIL NO:

**6024B**

DATE: 01/05/1999

# CURB INLET FILTER "PIGS IN BLANKET"



REV. DATE:  
10/15/2008  
07/14/2015  
05/15/2016

Sd2-P  
CURB INLET FILTER  
PIGS IN A BLANKET

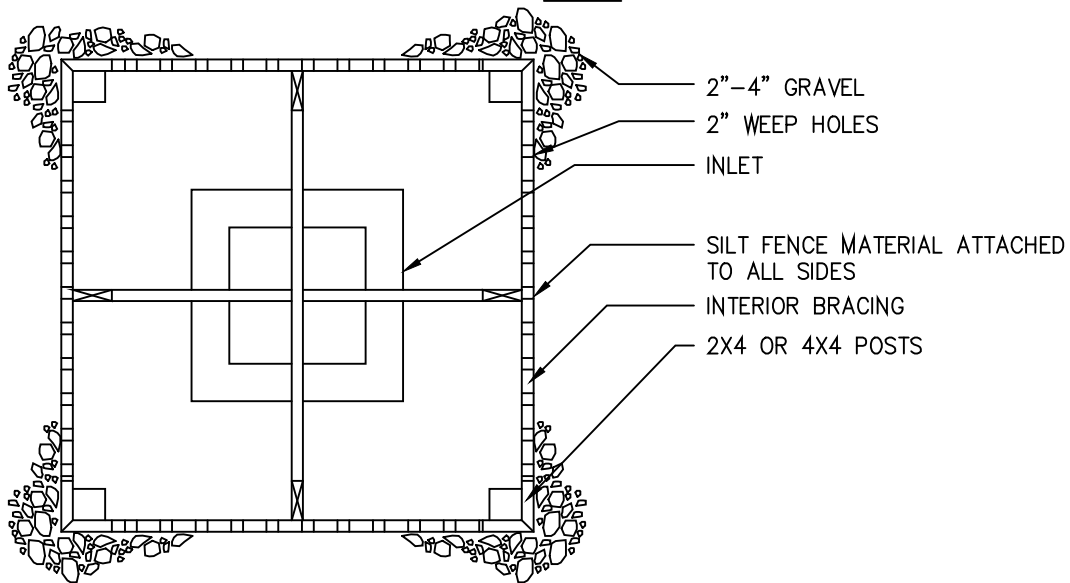
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6024C

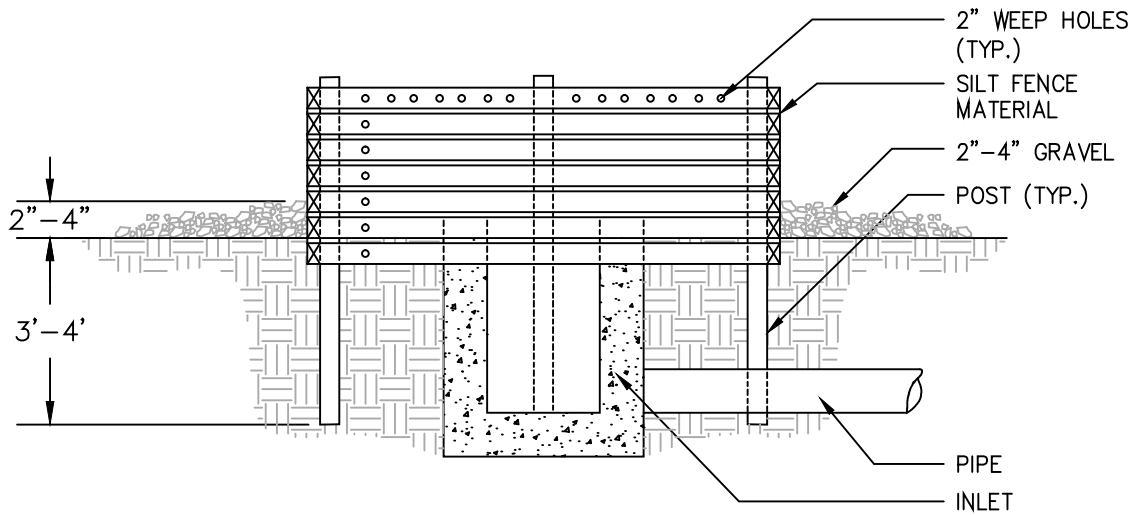
DATE: 03/31/2006

# BAFFLE BOX

PLAN



SIDE



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REV. DATE:  
10/15/2008  
07/14/2015  
05/15/2016

**Sd2-B  
CURB INLET FILTER  
BAFFLE BOX**

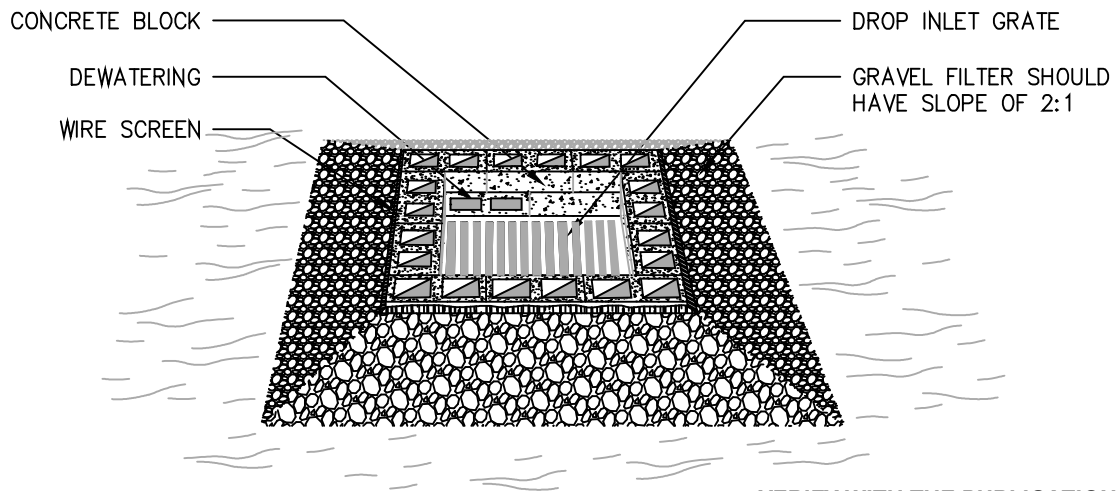
DETAIL NO:

**6024D**

DATE: 03/31/2006

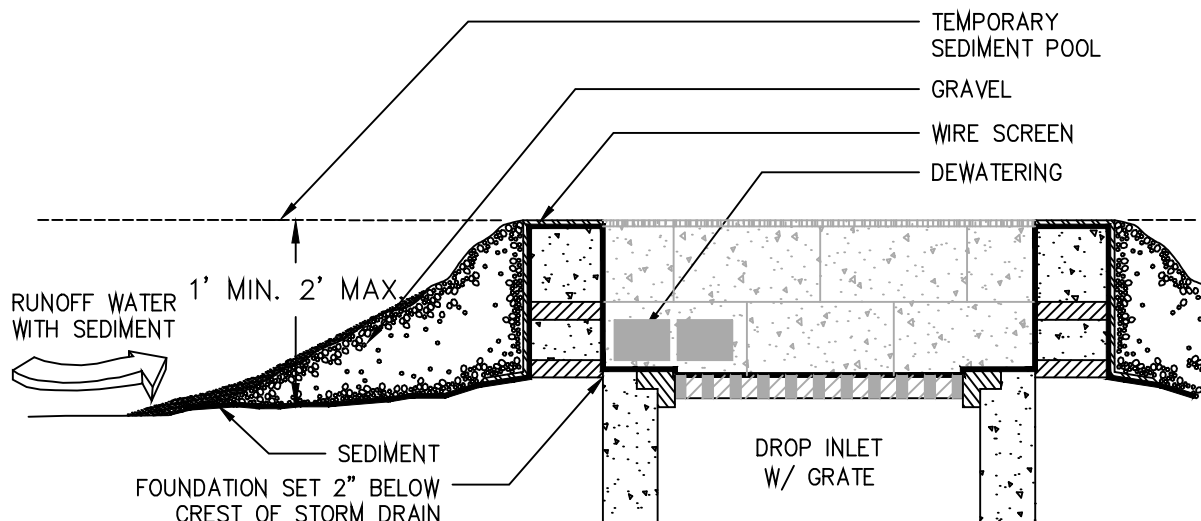
# BLOCK AND GRAVEL DROP INLET PROTECTION

## BLOCK AND GRAVEL PERSPECTIVE



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

## BLOCK AND GRAVEL SECTION



### NOTE:

1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH  $\frac{1}{2}$  INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

REV. DATE:  
10/15/2008  
07/14/2015  
05/15/2016

Sd2-Bg  
**BLOCK GRAVEL DROP INLET  
PROTECTION**

DETAIL NO:

**6024E**

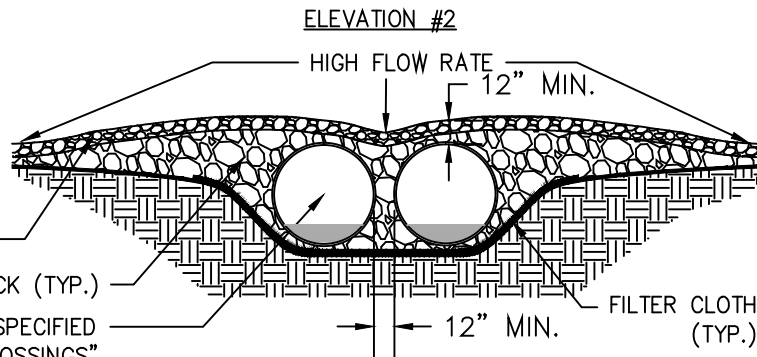
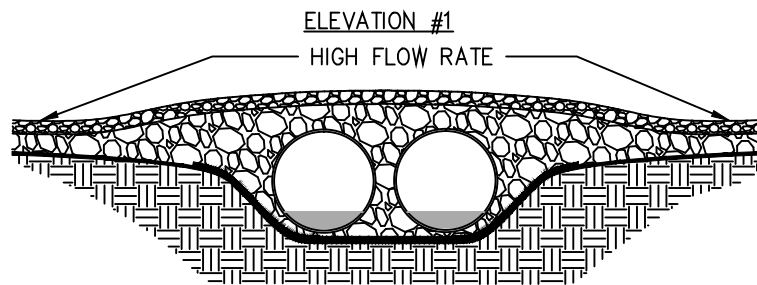
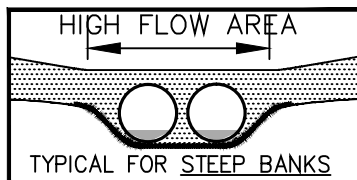
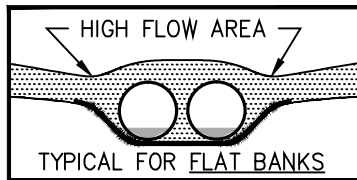
DATE: 03/31/2006



# TEMPORARY STREAM CROSSING

## CONFIGURATION OF TEMPORARY CULVERT CROSSINGS

(SECTIONS – NOT TO SCALE)

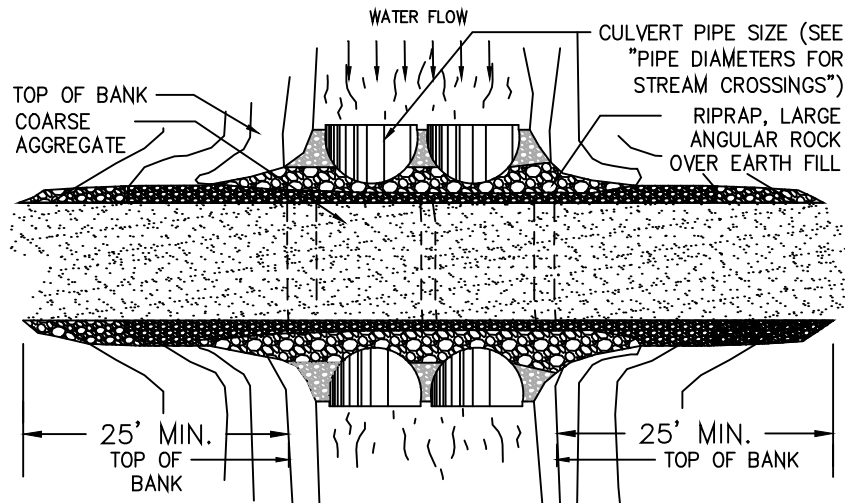


6" COARSE AGGREGATE (TYP.)

APPROPRIATELY LARGE ANGULAR ROCK (TYP.)

MINIMUM PIPE DIAMETERS SIZED AS SPECIFIED  
IN "PIPE DIAMETERS FOR STREAM CROSSINGS"

## TYPICAL CULVERT CROSSING PLAN (NOT TO SCALE)



### NOTES:

1. THIS TYPE OF CROSSING CAN BE INSTALLED IN BOTH A WET OR DRY WEATHER STREAM CONDITION WHERE THE DRAINAGE AREA EXCEEDS 10 ACRES.
2. REMOVE DURING CLEANUP.

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REV. DATE:  
10/15/2008  
07/15/2015  
05/15/2016

Sr  
TEMPORARY STREAM  
CROSSING

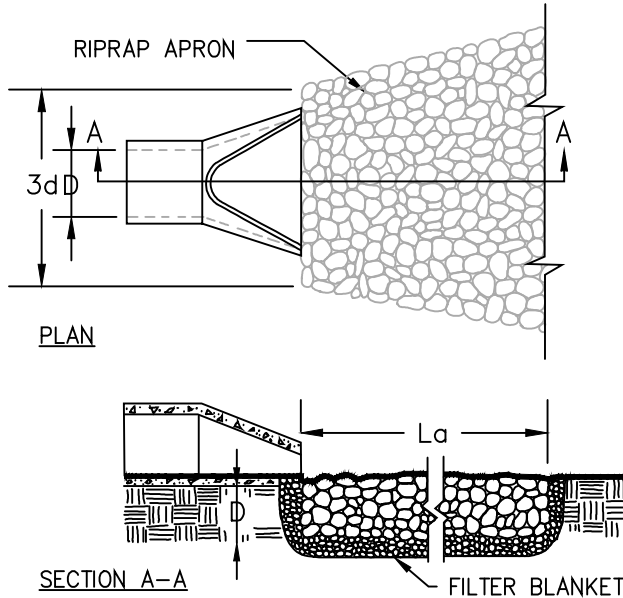
DETAIL NO:

6026

DATE: 03/31/2006

# RIPRAP OUTLET PROTECTION

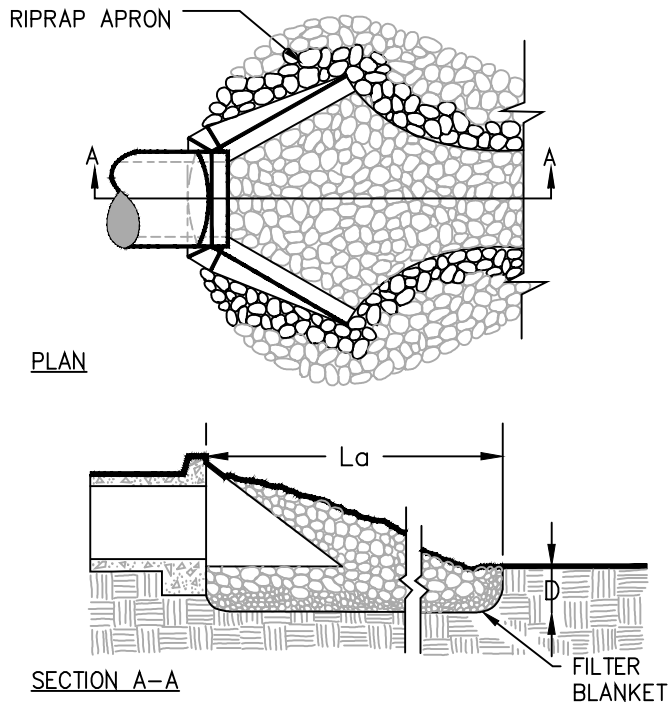
## PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



### NOTES:

1.  $L_a$  IS THE LENGTH OF THE RIPRAP APRON.
2.  $D = 1.5$  TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

## PIPE OUTLET TO WELL DEFINED CHANNEL



VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

REV. DATE:  
10/17/2008  
07/15/2015  
05/15/2016

St  
STORM DRAIN OUTLET  
PROTECTION

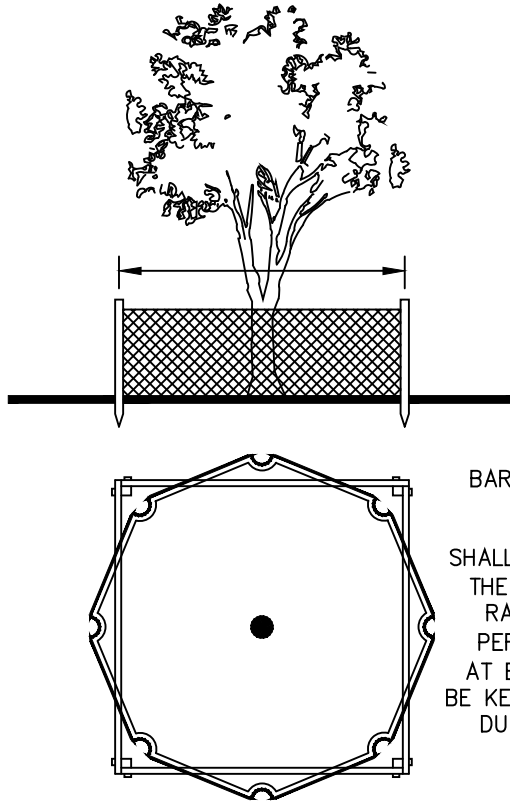
DETAIL NO:

6027

DATE: 01/27/1999

# TREE PROTECTION

## CHAIN LINK FENCE DETAIL



BARRIER CONSTRUCTED TO PROTECT TREE TRUNK, CROWN, AND ROOT SYSTEM FROM INJURY. BARRIERS SHALL BE LOCATED AT THE LIMITS OF THE TREE'S CRITICAL ROOT ZONE (A RADIUS OF ONE AND A HALF FEET PER INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT). BARRIER SHALL BE KEPT IN GOOD CONDITION FOR THE DURATION OF THE PROJECT AND IS TO REMAIN IN PLACE UNTIL THE NOTICE OF TERMINATION.

### FOR ADDED PROTECTION

- PROVIDE 4" DEEP ORGANIC MULCH OVER ANY UNPROTECTED ROOT ZONE.
- PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REVISED:  
05/15/2016

TR-1  
TREE PROTECTION

DETAIL NO:

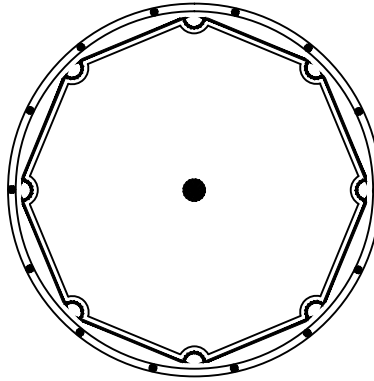
6038A

DATE: 04/14/99

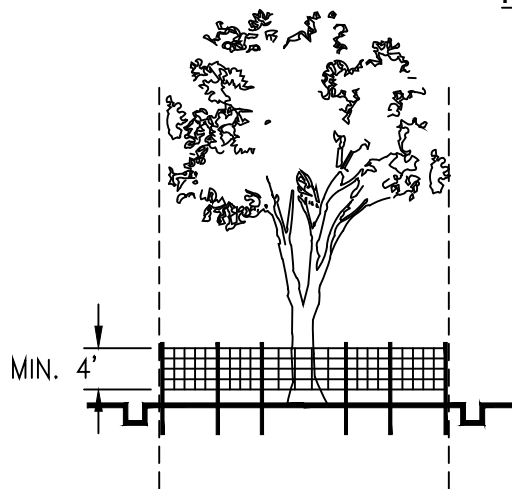
# TREE PROTECTION

## "SNOW" FENCE

PLAN



CROSS-SECTION



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

NOTES:

1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

REVISED:  
05/15/2016

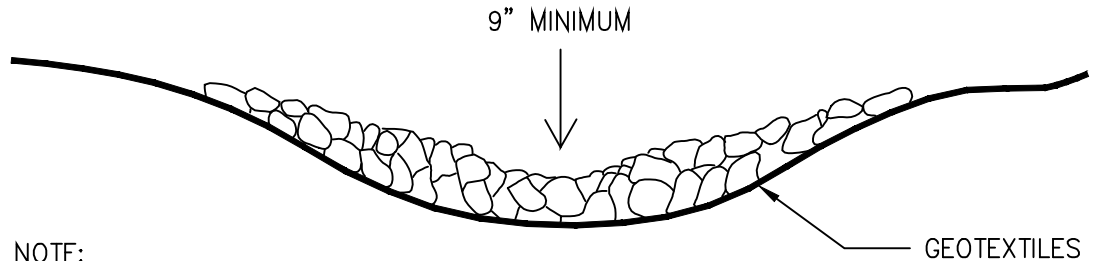
TR-2  
TREE PROTECTION

DETAIL NO:

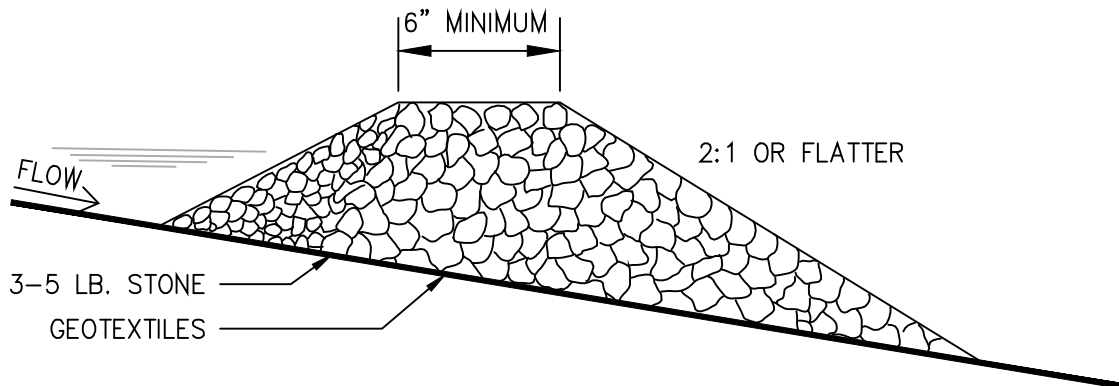
6038B

DATE: 04/14/99

# ROCK FILTER DAM



NOTE:  
ROCK FILTER DAM IS TO BE CLEANED  
OUT WHEN VOLUME BECOMES HALF FULL.



NOTE:  
ROCK SIZE DETERMINED ACCORDING TO  
SPECIFICATIONS SET FORTH IN APPENDIX C. OF  
THE "MANUAL FOR EROSION AND SEDIMENT  
CONTROL IN GEORGIA", CURRENT EDITION.

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REVISED:  
05/15/2016

Rd  
ROCK FILTER DAM

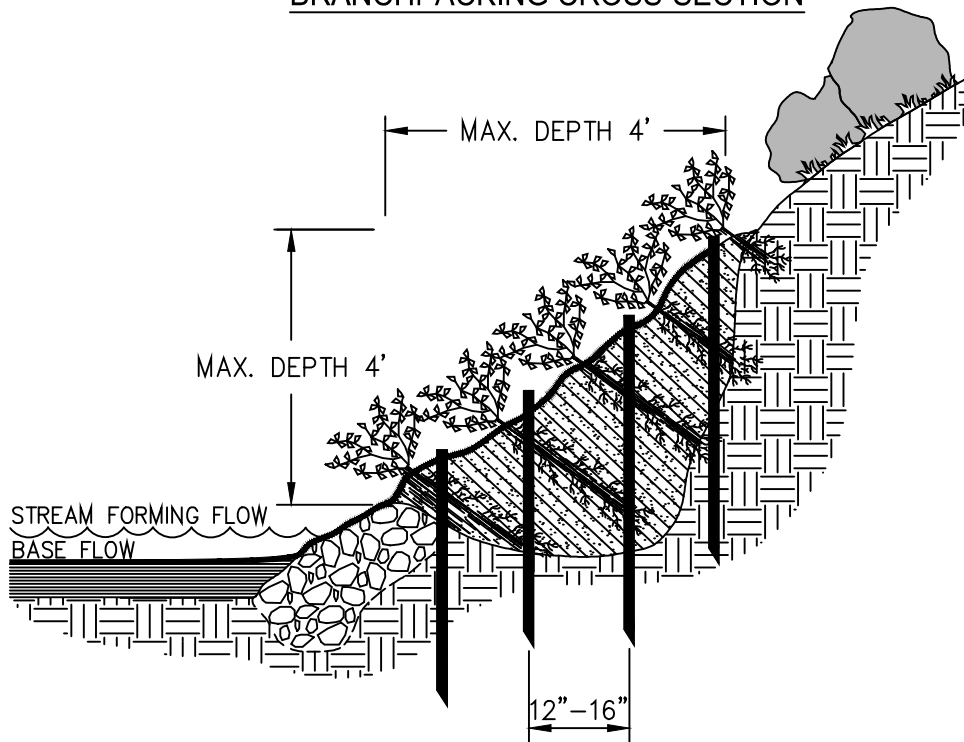
DETAIL NO:

6039

DATE: 10/07/2008

# STREAMBANK STABILIZATION

## BRANCHPACKING CROSS-SECTION



### NOTES:

1. ROOT/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE OF THE TIME OF INSTALLATION.
2. STARTING AT THE LOWEST POINT, DRIVE THE WOODEN POSTS VERTICALLY 3' TO 4' INTO THE GROUND AND SET THEM 12"-16" APART.
3. A LAYER OF LIVING BRANCHES (4"-6" THICK) IS PLACED IN THE BOTTOM OF THE HOLE, BETWEEN THE VERTICAL POSTS. THEY SHALL BE PLACED IN A CRISSCROSS CONFIGURATION.
4. THE FINAL INSTALLATION SHALL MATCH THE EXISTING SLOPE. BRANCHES SHOULD PROTRUDE ONLY SLIGHTLY FROM THE FILLED FACE.
5. EACH LAYER OF BRANCHES SHALL BE FOLLOWED BY A 12" LAYER OF SOIL HAND TAMPED TO ENSURE CONTACT WITH THE BRANCH CUTTINGS.
6. THE SOIL SHALL BE MOIST OR MOISTENED TO ENSURE THAT LIVE BRANCHES DO NOT DRY OUT.
7. WHERE SPECIFIED, LIVE STAKES SHALL BE USED IN PLACE OF POSTS.

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REVISED:  
05/15/2016

(Sb) STREAMBANK  
STABILIZATION  
(BRANCHPACKING CROSS-SECTION)

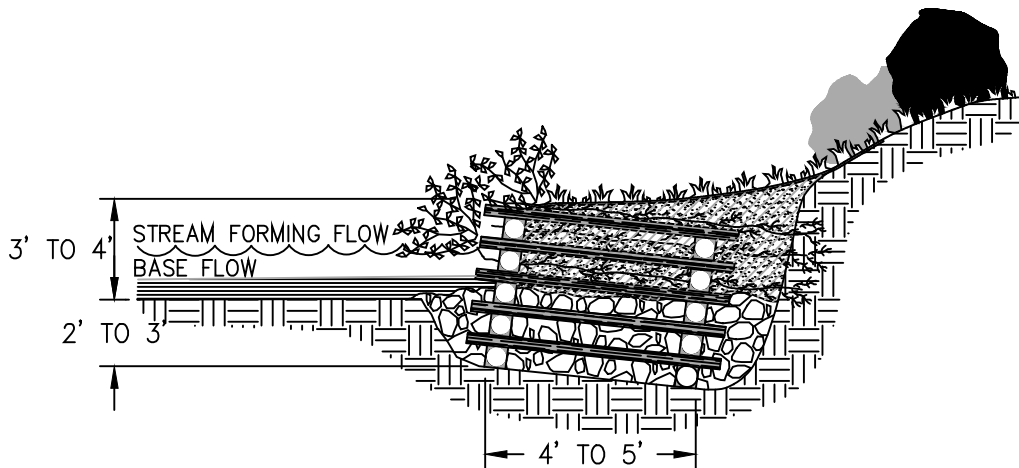
DETAIL NO:

6043A

DATE: 09-30-08

# STREAMBANK STABILIZATION

## LIVE CRIBWALL CROSS-SECTION



### NOTES:

1. ROOTED/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE OF THE TIME OF INSTALLATION.
2. EACH COURSE SHALL BE SECURED TO THE PRECEDING COURSE WITH SPIKES OR REBARS (SIZE VARIES ACCORDING TO PROJECT).
3. BACKFILL IN AND AROUND TIMBER CRIB WITH RIPRAP FROM BOTTOM OF EXCAVATION TO THE LOWER GROUND LEVEL (OR WHEN IN STREAM CHANNEL UP TO BASEFLOW).
4. EACH TRANSVERSE LOG COURSE CONTAINS LIVE CUTTINGS FOLLOWED BY A LAYER OF TAMPED BACKFILL.
5. EACH FACE LOG COURSE (FRONT AND REAR), AND THE AREA BEHIND THE STRUCTURE SHALL BE BACKFILLED AND HAND TAMPED.

VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

REVISED:  
05/15/2016

(Sb) STREAMBANK  
STABILIZATION  
(LIVE CRIBWALL CROSS-SECTION)

DETAIL NO:

6043B

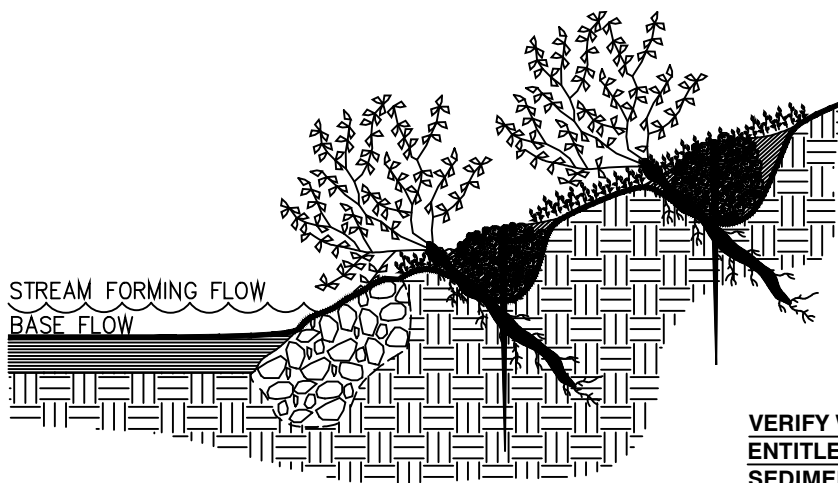
DATE: 09-30-08

# STREAMBANK STABILIZATION

## FASCINE BUNDLE DETAIL



## LIVE FASCINE CROSS-SECTION DETAIL



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

### NOTES:

1. ROOTED/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE OF THE TIME OF INSTALLATION.
2. LIVE FASCINES SHALL BE PREPARED FROM FRESHLY CUT DORMANT PLANTS AND INSTALLED WITHIN 8 HOURS OF THE TIME THE MATERIAL IS HARVESTED, UNLESS PROPERLY STORED.
3. LIVE FASCINE SHALL BE OBTAINED FROM SOURCES APPROVED BY ENGINEER.
4. LIVE FASCINES SHALL BE 4"-8" IN DIAMETER WITH MINIMUM 8' LENGTH.
5. BEGINNING AT THE BASE OF THE SLOPE, A TRENCH SHALL BE DUG LARGE ENOUGH TO CONTAIN THE LIVE FASCINES. THE LIVE FASCINES SHALL BE PLACED IN THE TRENCH. WHERE ENDS MEET IN THE TRENCH, THE FASCINES SHALL OVERLAP BY 18".
6. THE TRENCH SHALL BE BACKFILLED WITH MOIST SOIL AND HAND TAMPED. THE TOP OF THE FASCINE SHALL BE SLIGHTLY EXPOSED WHEN THE INSTALLATION IS COMPLETE AS SHOWN ON CROSS SECTION.
7. SEED OR OTHER EROSION CONTROL MATERIAL SHALL BE USED BETWEEN THE FASCINE ROWS, AS SPECIFIED IN THE CONTRACT DOCUMENTS.
8. LIVE FASCINE TRENCHES SHALL BE FROM 3' TO 8' APART, ACCORDING TO SLOPE AND/OR CONTRACT DOCUMENTS.

REVISED:  
05/15/2016

(Sb) STREAMBANK  
STABILIZATION  
(LIVE FASCINE CROSS-SECTION DETAIL)

DETAIL NO:

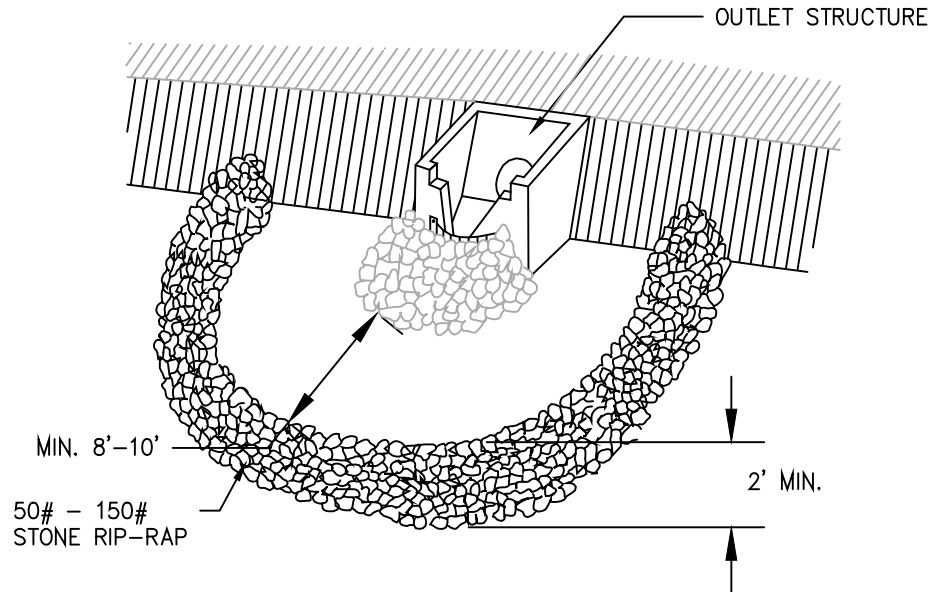
6043C

DATE: 09-30-08

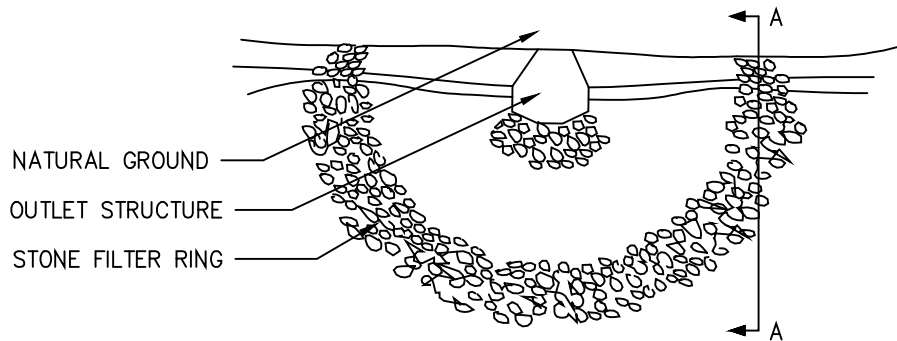


# STONE FILTER RING

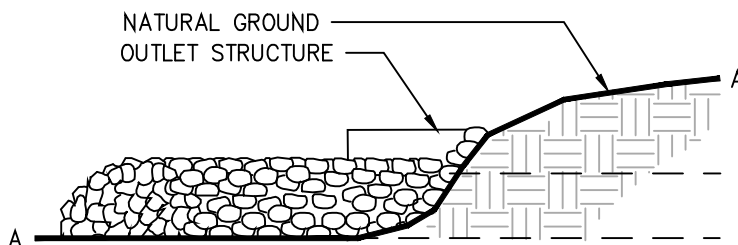
## PERSPECTIVE VIEW



## PLAN VIEW (NOT TO SCALE)



## CROSS SECTION (NOT TO SCALE)



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REVISED:  
05/15/2016

Fr  
FILTER RING

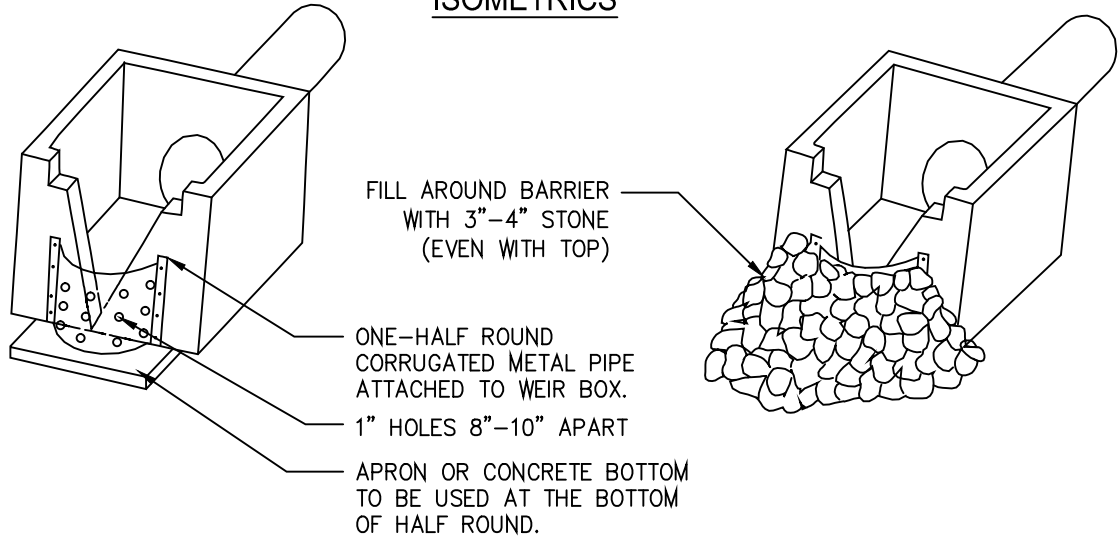
DETAIL NO:

6046

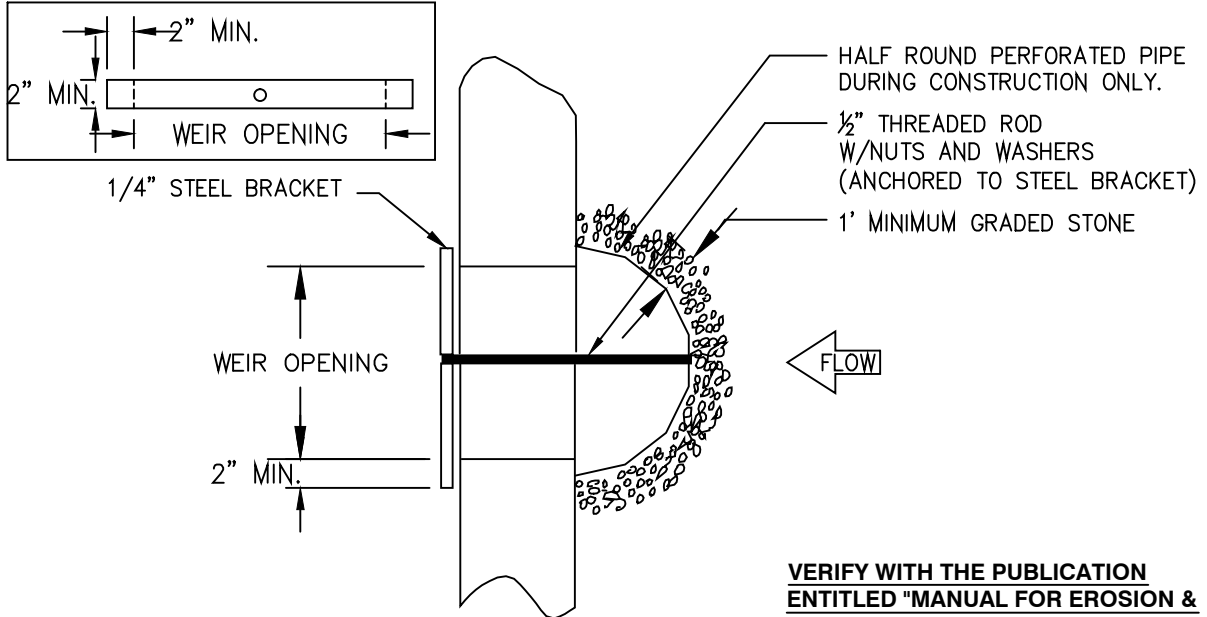
DATE: 10/06/2008

# PERFORATED HALF-ROUND PIPE WITH STONE FILTER

## ISOMETRICS



## PLAN



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REVISED:  
05/15/2016

**Rt-P RETROFITTING  
PERFORATED HALF-ROUND PIPE  
WITH STONE FILTER**

DETAIL NO:

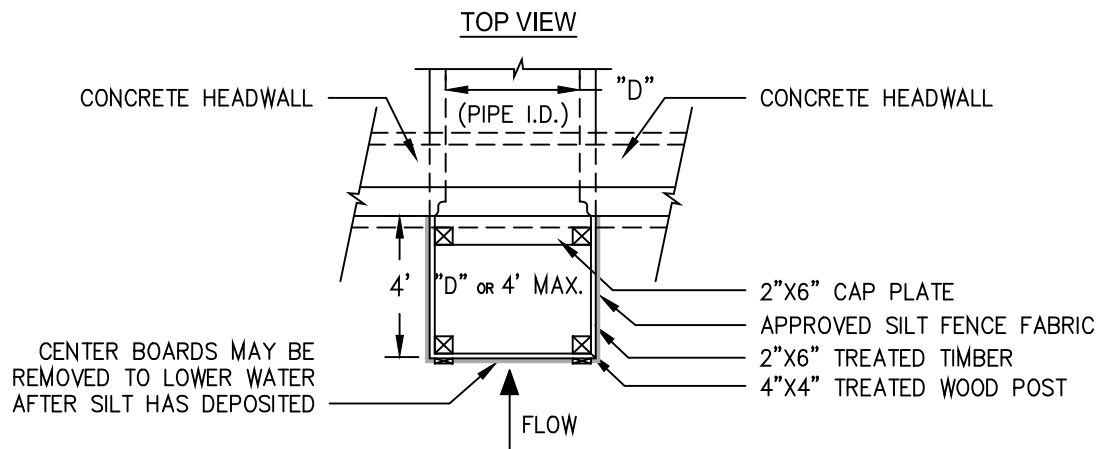
**6047A**

DATE: 10/06/2008

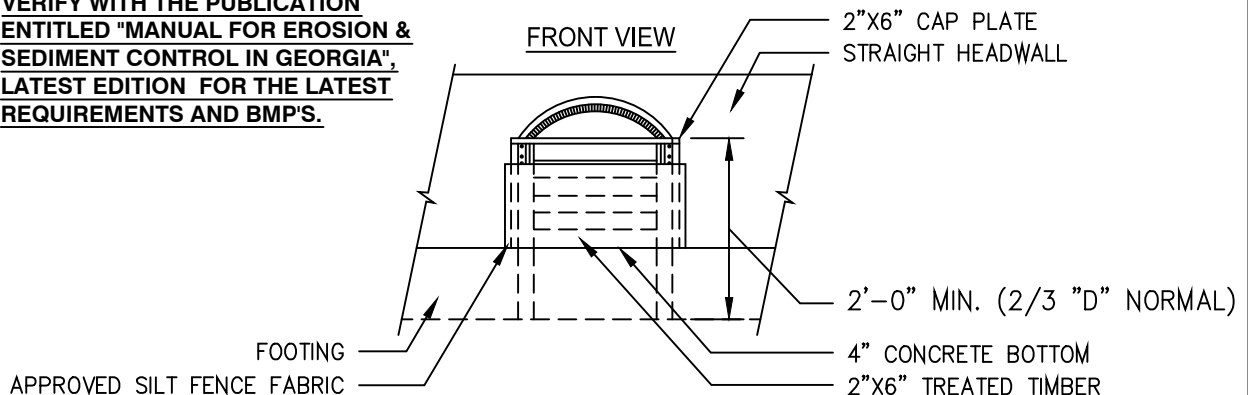
## TYPE 2: FOR STRAIGHT HEADWALLS

### NOTES:

1. SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
2. BOARDS SHOULD HAVE A 0.5" TO 1" SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
3. MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
4. POSTS FOR THE SILT CONTROL GATE SHALL BE 4: X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
5. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STAPLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
6. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
7. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.



**VERIFY WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA", LATEST EDITION FOR THE LATEST REQUIREMENTS AND BMP'S.**



USES: A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO TRAP SILT.

NOTE: SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.

REVISED:  
05/15/2016

**Rt-B**  
**RETROFITTING SLOTTED BOARD DAM**  
**WITH STONE OR FILTER FABRIC**

DETAIL NO:

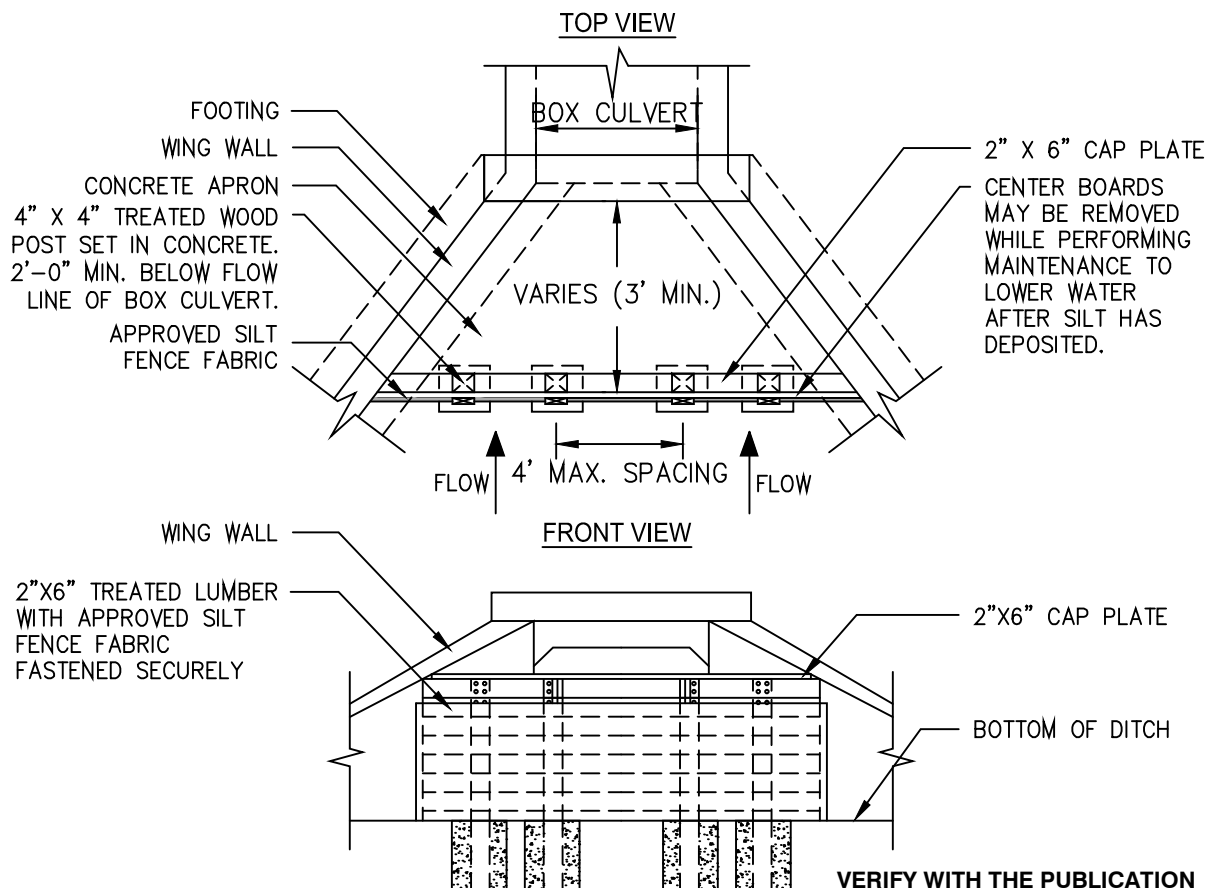
**6047B**

DATE:10/14/2008

## TYPE 1: FOR BOX CULVERTS

### NOTES:

1. REFER TO APPROPRIATE CONSTRUCTION DETAIL FOR CONCRETE APRONS.
2. SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
3. BOARDS SHOULD HAVE A 0.5" TO 1" SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
4. MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
5. POSTS FOR THE SILT CONTROL GATE SHALL BE 4" X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
6. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STAPLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
7. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
8. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

USES: A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO TRAP SILT.

NOTE: SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.

REVISED:  
05/15/2016

Rt-Sg  
**SILT CONTROL GATE  
FOR BOX CULVERTS**

DETAIL NO:

**6047C**

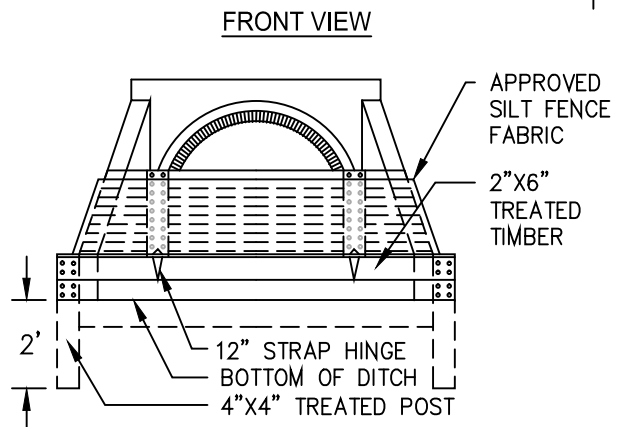
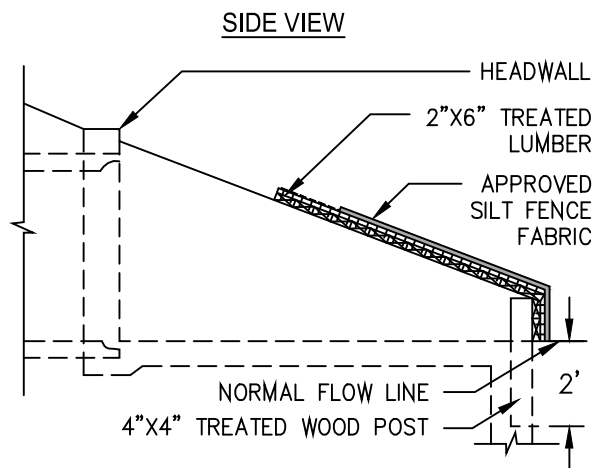
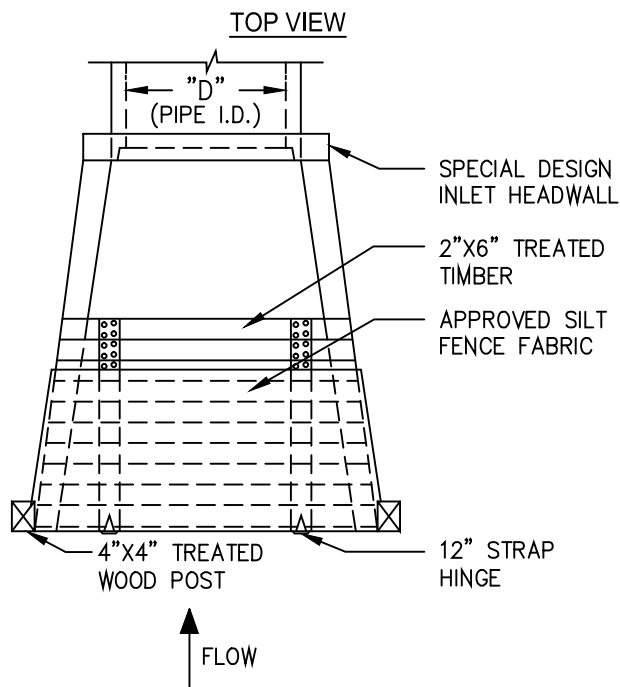
DATE:10/14/2008

### TYPE 3: FOR FLARED END SECTIONS AND TAPERED HEADWALLS

**NOTES:**

1. SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
2. BOARDS SHOULD HAVE A 0.5" TO 1" SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
3. MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
4. POSTS FOR THE SILT CONTROL GATE SHALL BE 4" X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
5. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STAPLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
6. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
7. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**



**USES:** A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO TRAP SILT.

**NOTE:** SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.

REVISED:  
05/15/2016

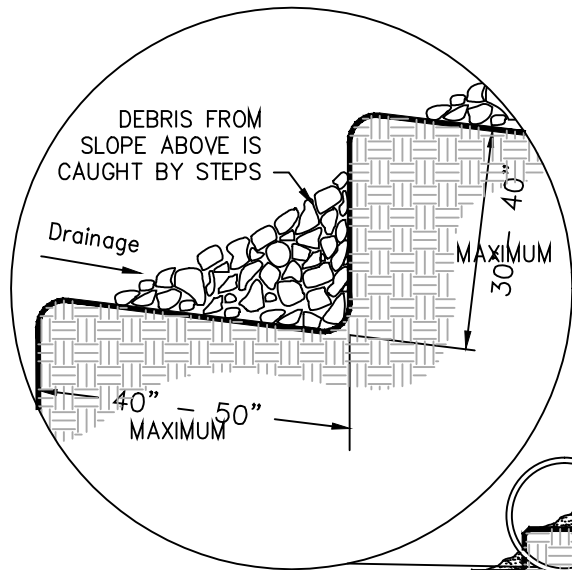
**Rt-Sg  
SILT CONTROL GATE  
FOR FLARED END SECTIONS  
& TAPERED HEADWALLS**

DETAIL NO:

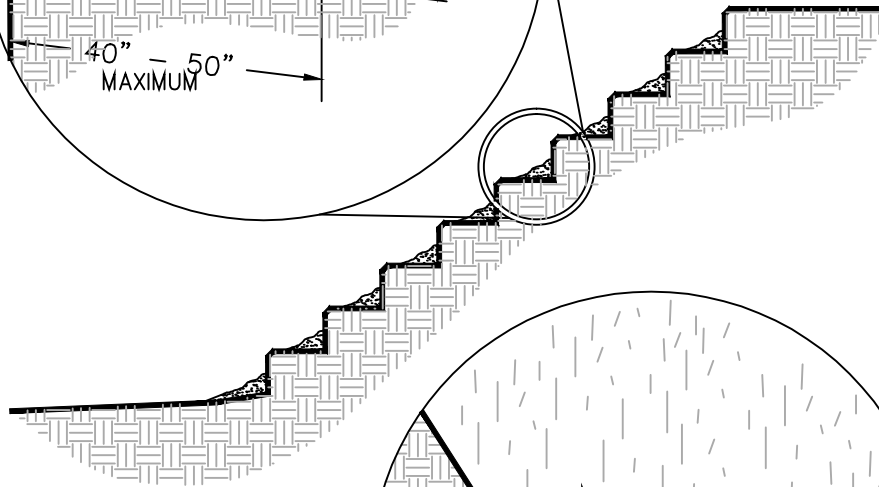
**6047D**

DATE:10/14/2008

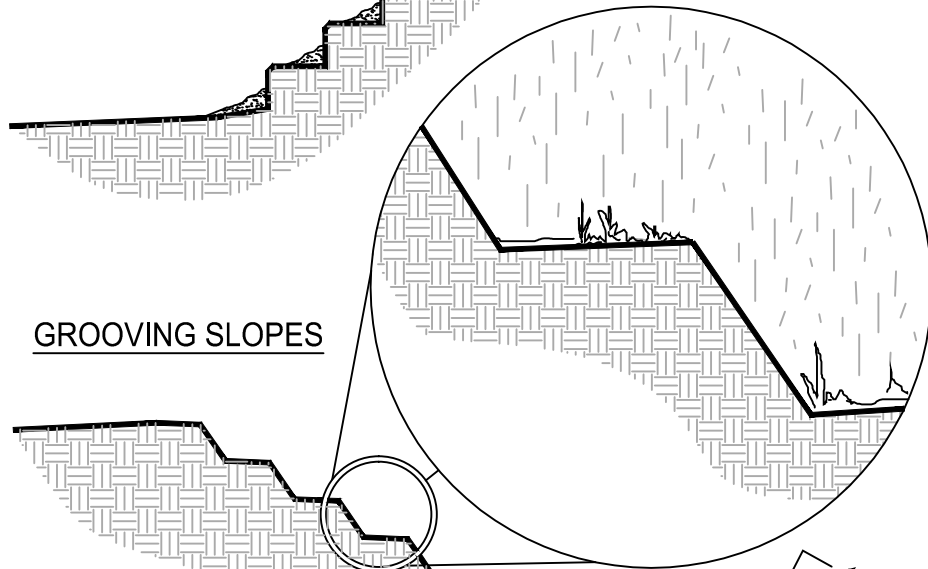
## STAIR STEPPING CUT SLOPES



WATER, SOIL, AND  
FERTILIZER ARE HELD  
BY STEPS -- PLANTS  
CAN BECOME  
ESTABLISHED ON THE  
STEPS.



## GROOVING SLOPES



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

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**

REVISED:  
05/15/2016

(Su) SURFACE ROUGHENING  
STAIR STEPPING & GROOVING

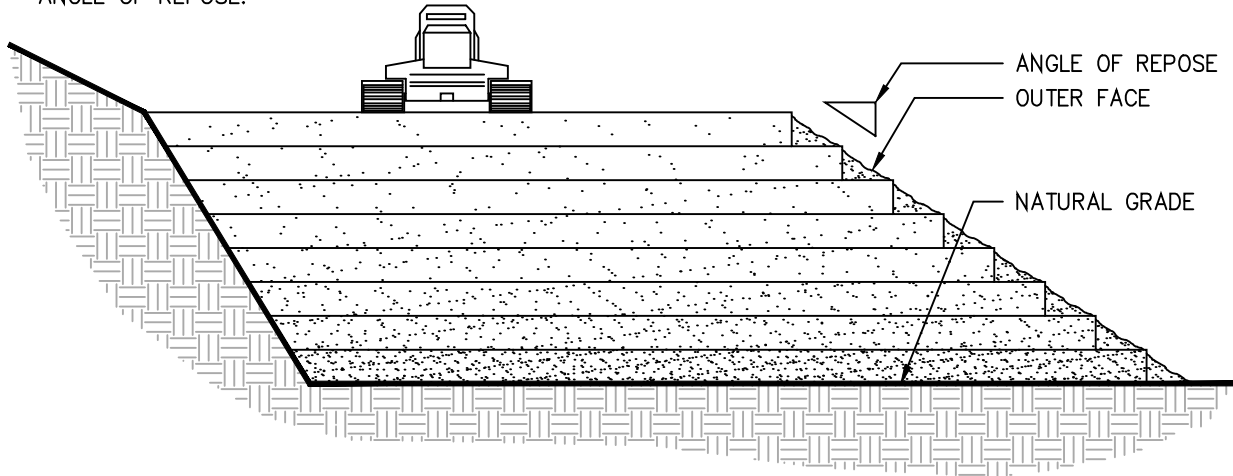
DETAIL NO.

6048

DATE: 10/17/08

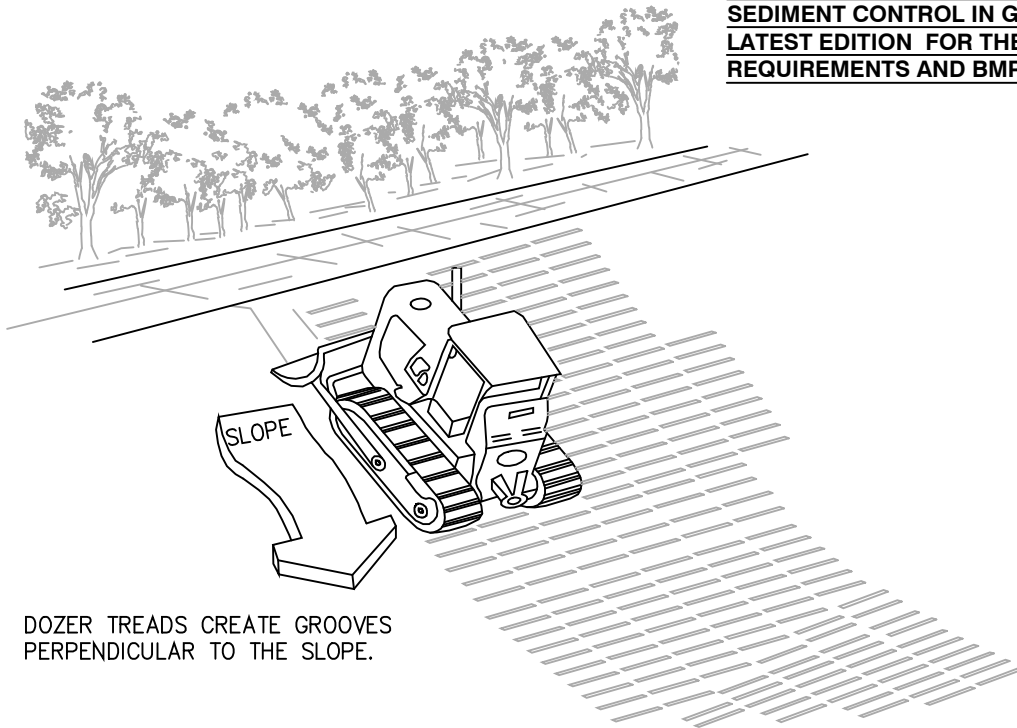
## FILL SLOPE TREATMENT

EACH LIFT OF THE FILL IS COMPACTED, BUT THE OUTER FACE OF THE SLOPE IS ALLOWED TO REMAIN LOOSE SO THAT THE ROCKS, CLODS, ETC. REACH THE NATURAL ANGLE OF REPOSE.



## TRACKING

**VERIFY WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA", LATEST EDITION FOR THE LATEST REQUIREMENTS AND BMP'S.**



DOZER TREADS CREATE GROOVES PERPENDICULAR TO THE SLOPE.

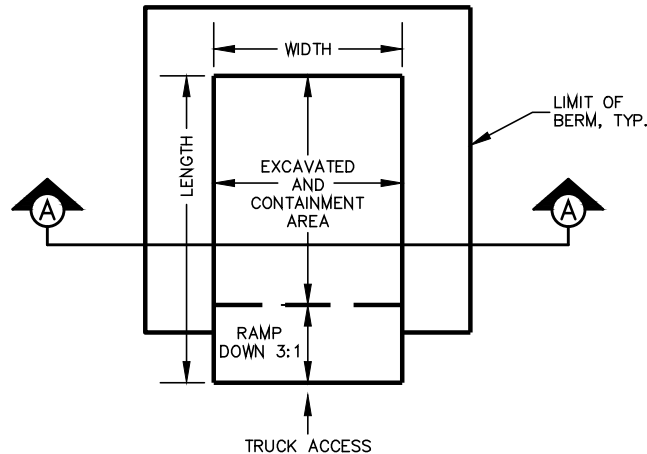
REVISED:  
05/15/2016

(Su) SURFACE ROUGHENING  
TRACKING

DETAIL NO.:

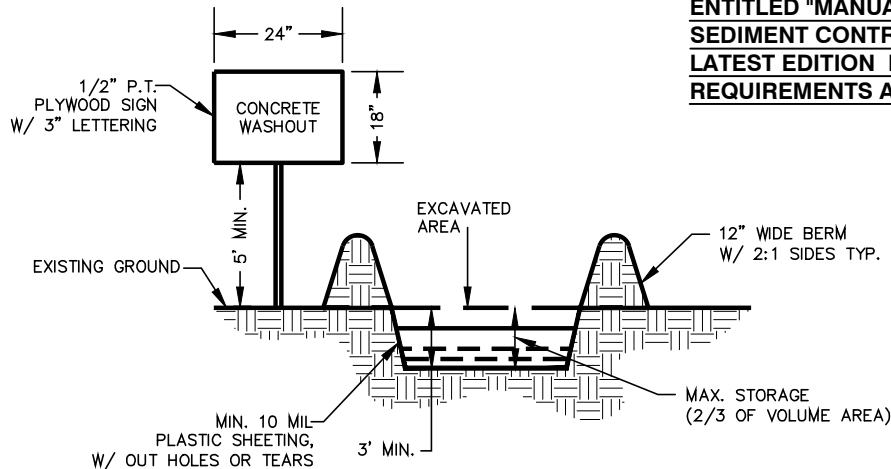
6048A

DATE: 10/17/08



**PLAN VIEW**

**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**



**SECTION A-A**

**NOTES:**

1. SEE PLAN VIEW FOR LOCATION & LENGTH AND WIDTH INFORMATION.
2. CONCRETE WASHOUT AREA & SIGNS SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT.
3. CONCRETE WASHOUT SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO THE OPERATORS OF CONCRETE TRUCKS & EQUIPMENT. WASHOUT OF THE CONCRETE DRUM IS PROHIBITED AT THE SITE.
4. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED; ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
5. AT THE END OF CONSTRUCTION, ALL CONCRETE & MATERIALS SHALL BE REMOVE FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
6. CONCRETE WASHOUT AREAS SHALL BE LOCATED A MIN. OF 50 FEET AWAY FROM ANY PART OF A STORM SEWER SYSTEM.
7. CONCRETE WASHOUT AREAS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT AND SHALL BE REPAIRED AS NECESSARY.
8. CONCRETE WASHOUT AREA SHALL MEET THE GUIDELINES OF THE EPA'S CONCRETE WASHOUT BMP.

REVISED:  
05/15/2016

# CONCRETE WASHDOWN AREA

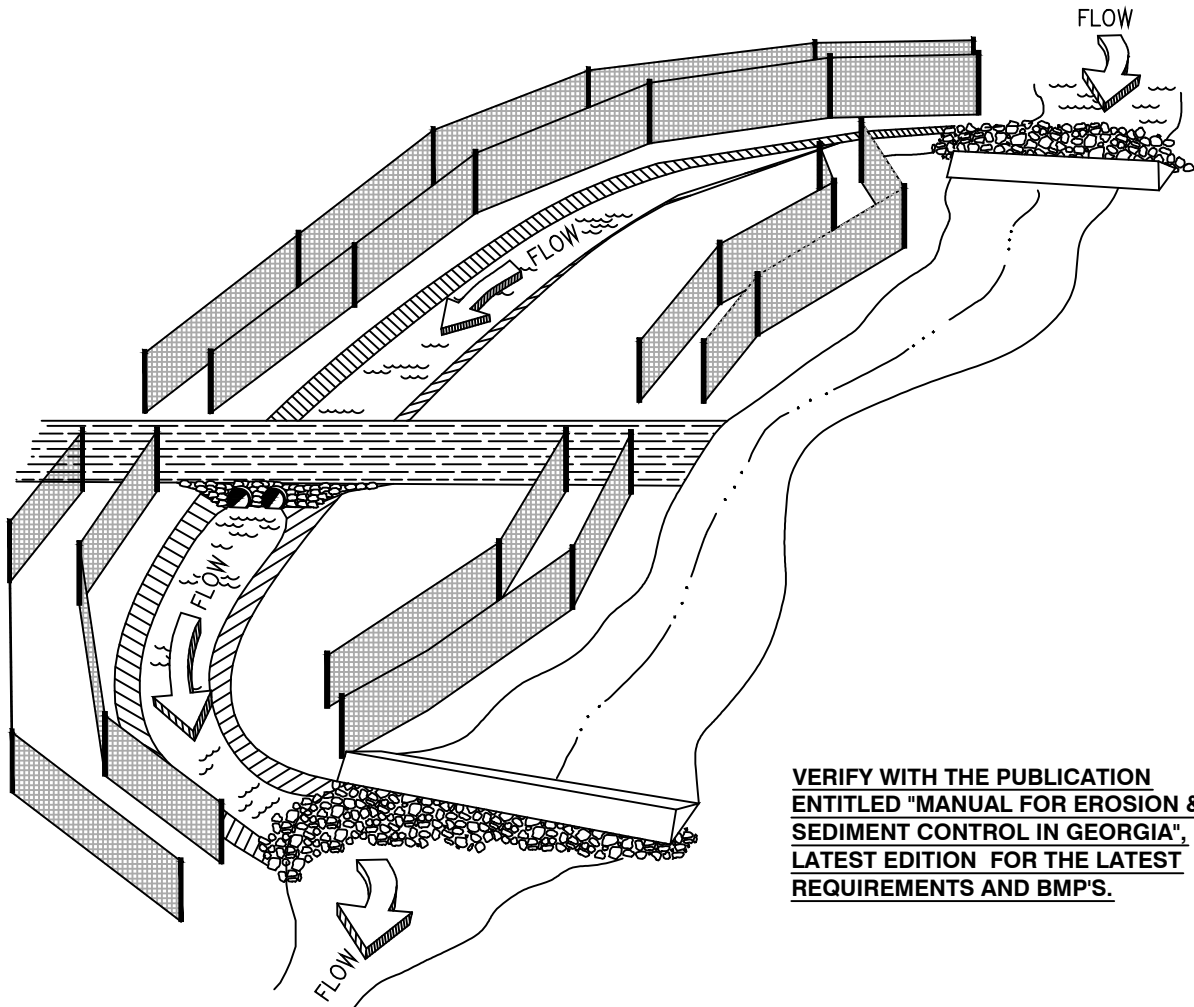
DETAIL NO:

**6049**

DATE: 10/28/2009



# STREAM DIVERSION CHANNEL



VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

## NOTES:

1. THE BOTTOM WIDTH OF THE STREAM DIVERSION SHALL BE A MINIMUM OF SIX FEET OR EQUAL TO THE BOTTOM WIDTH OF THE EXISTING STREAMBED (WHICHEVER IS GREATER).
2. SIDE SLOPES OF THE STREAM DIVERSION CHANNEL SHALL BE NO STEEPER THAN 2:1.
3. THE CHANNEL SHALL BE EXCAVATED, CONSTRUCTING PLUGS AT BOTH ENDS.
4. TWO ROWS OF TYPE S SEDIMENT BARRIERS SHALL BE PLACED ALONG THE SIDES OF THE CHANNEL TO PREVENT UNFILTERED RUNOFF FROM ENTERING THE STREAM.
5. THE CHANNEL SURFACE SHALL BE SMOOTH (TO PREVENT TEARING OF THE LINER) AND LINED WITH THE MATERIAL SPECIFIED IN THE PLANS.
6. THE PLUGS ARE REMOVED WHEN THE LINER INSTALLATION IS COMPLETE (REMOVING THE DOWNSTREAM PLUG FIRST).

REVISED:  
05/15/2016

Dc  
STREAM DIVERSION CHANNEL

DETAIL NO:

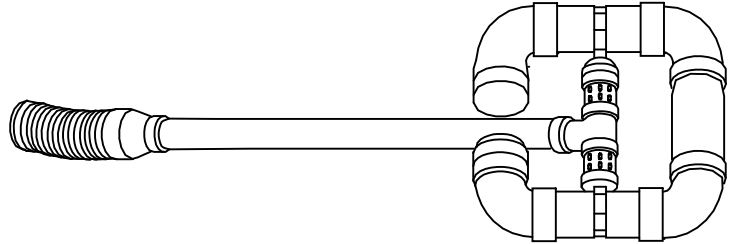
6050

DATE: 05/14/2016

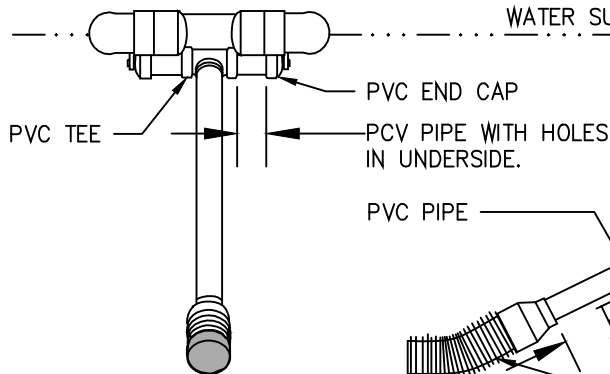
# TEMPORARY SEDIMENT POND

NOTE:  
SKIMMER CONFIGURATION SHOWN IS  
TYPICAL. THE DESIGNER/ENGINEER  
MAY SUBMIT AN ALTERNATE SKIMMER  
DETAIL FOR REVIEW.

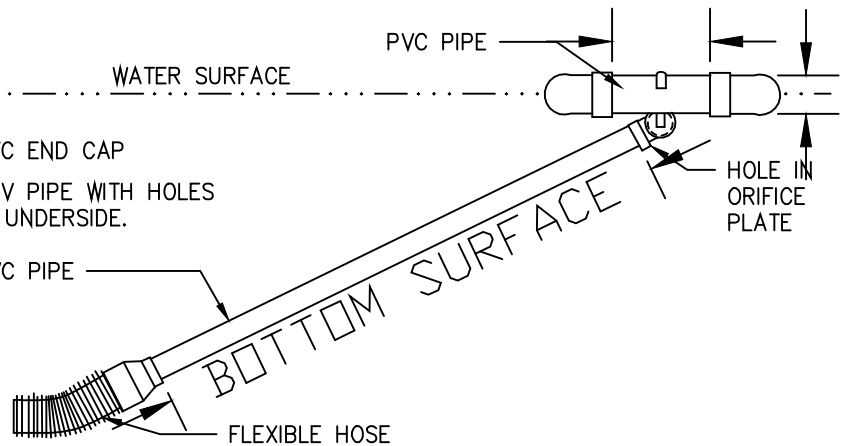
SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW



SKIMMER SIDE SECTION VIEW



VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.

REVISED:  
05/15/2016

Sk  
FILTER SURFACE SKIMMER

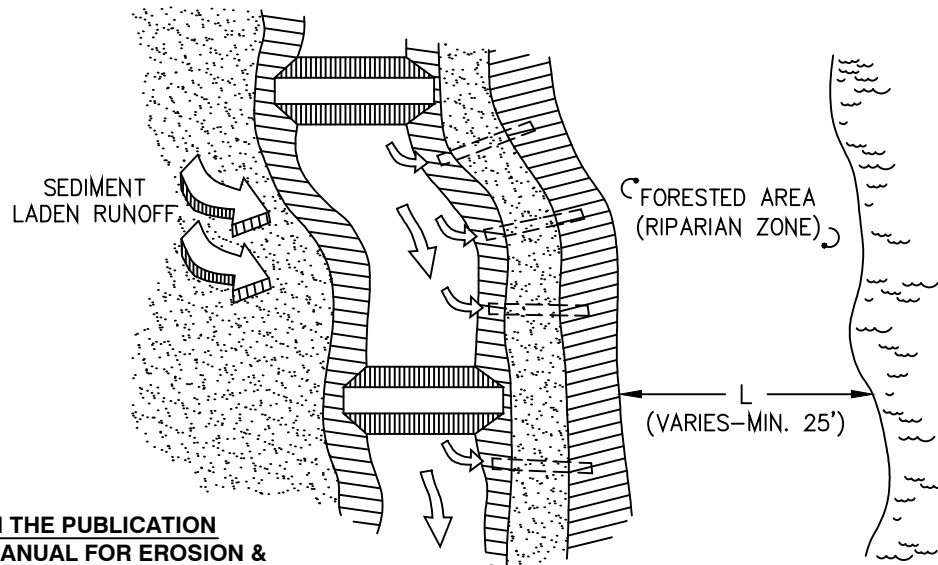
DETAIL NO:

6051

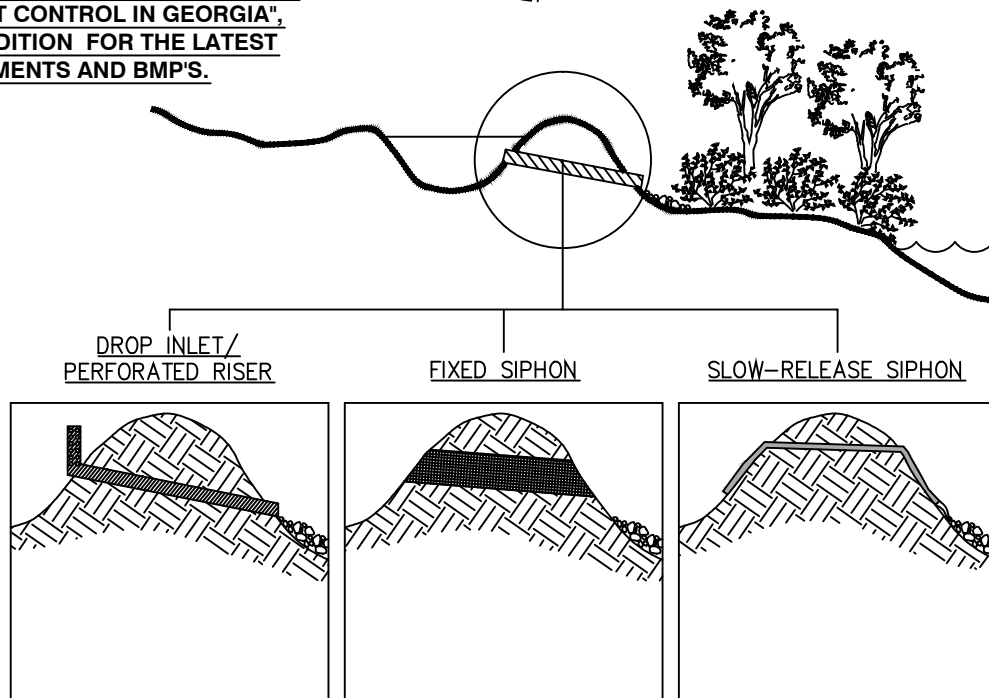
DATE: 05/14/2016

# INTEGRATED SEEP BERM EROSION CONTROL SYSTEM

## SEEP BERM PLAN AND CROSS-SECTION



**VERIFY WITH THE PUBLICATION  
ENTITLED "MANUAL FOR EROSION &  
SEDIMENT CONTROL IN GEORGIA",  
LATEST EDITION FOR THE LATEST  
REQUIREMENTS AND BMP'S.**



\*DESIGNER/ENGINEER MUST DEFINE IF SEEP BERM IS TO BE A TEMPORARY OR PERMANENT BMP.

REVISED:  
05/15/2016

SpB  
SEEP BERM

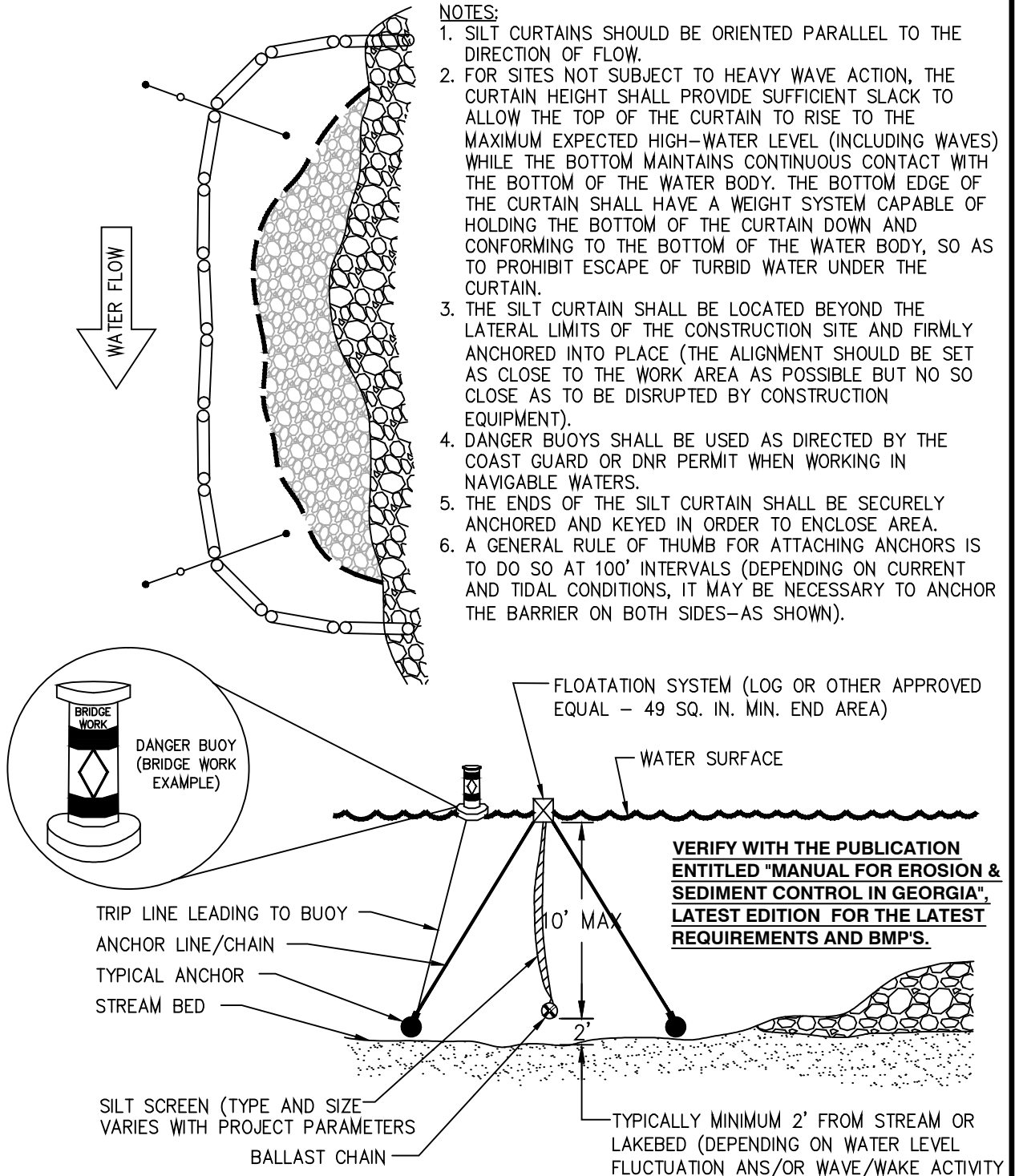
DETAIL NO:

6052

DATE: 05/14/2016

# TURBIDITY CURTAIN SYSTEM

## ANCHOR SYSTEM AND LAYOUT DETAILS



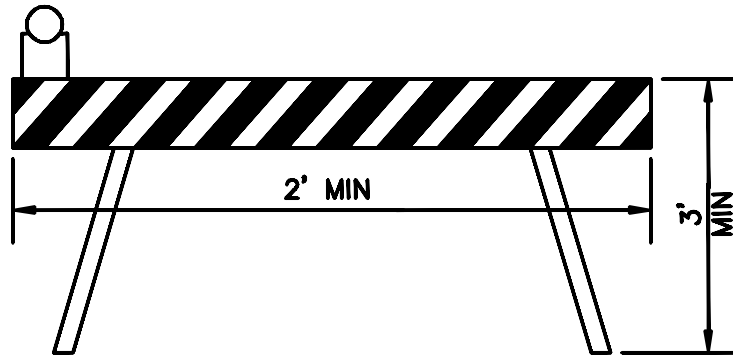
REV. DATE:  
07/19/2016

Tc  
TURBIDITY CURTAIN

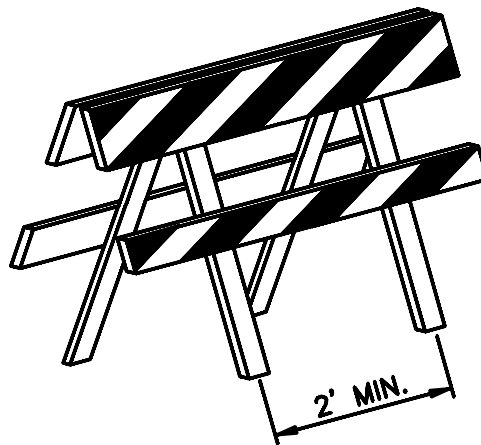
DETAIL NO:

6053

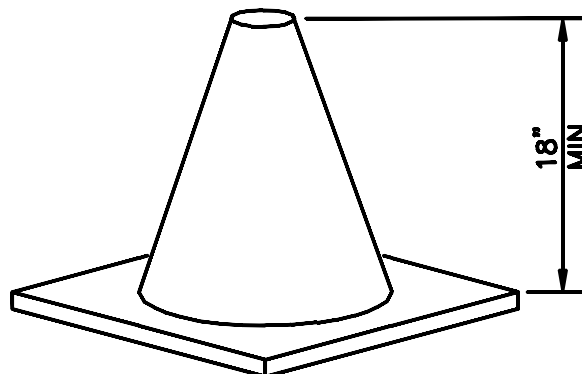
DATE: 05/14/2016



**TYPE I BARRICADE**



**TYPE II BARRICADE**



**TRAFFIC CONES**

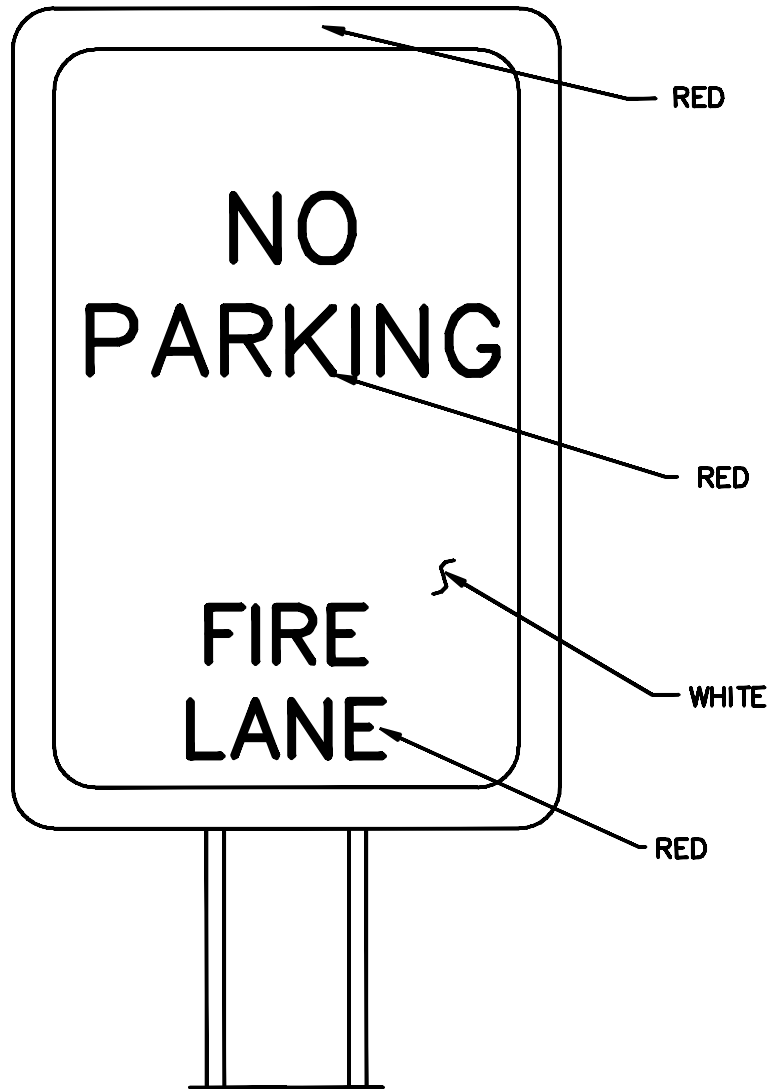
REV. DATE:  
06/26/2015

**BARRICADES (TYPES I & II)  
AND TRAFFIC CONE**

DETAIL NO:

**7001**

DATE: 05/25/1996



NOTE: PROVIDE 12"x 18"x .080" ALUMINUM BASE  
STANDARD SIGN. BOLT SIDE TO #3 CHANNEL  
POST W/ TOP OF SIGN ● 5'- 6" ABOVE GRADE.

REV. DATE:  
06/26/2015

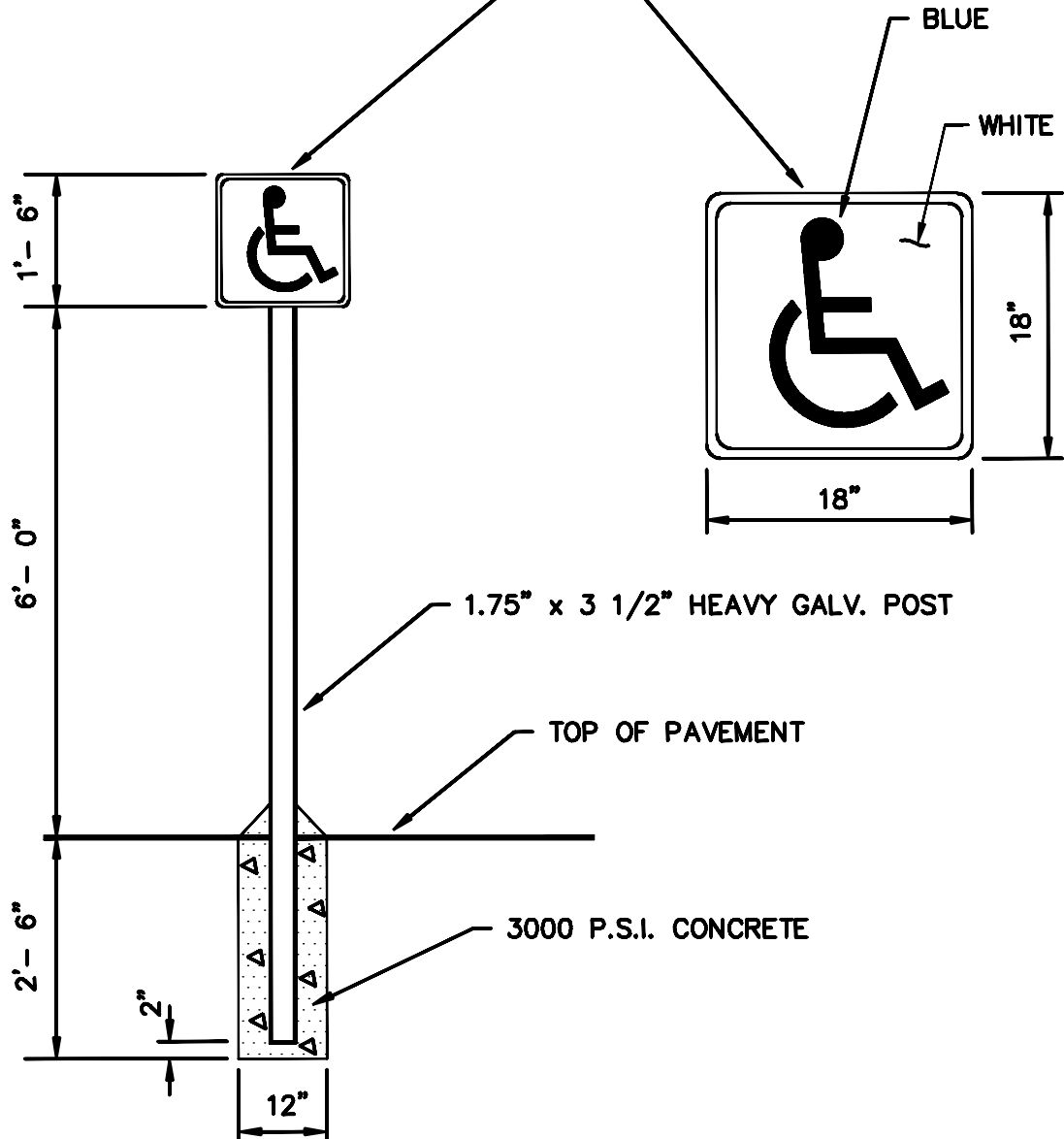
FIRE LANE SIGN

DETAIL NO:

7002

DATE: 05/25/1996

18" x 18" x .080 STD. HANDICAP SIGN.  
FASTEN WITH TWO 3/8"  $\varnothing$  CADMIUM BOLTS,  
NUTS & LOCK WASHERS.



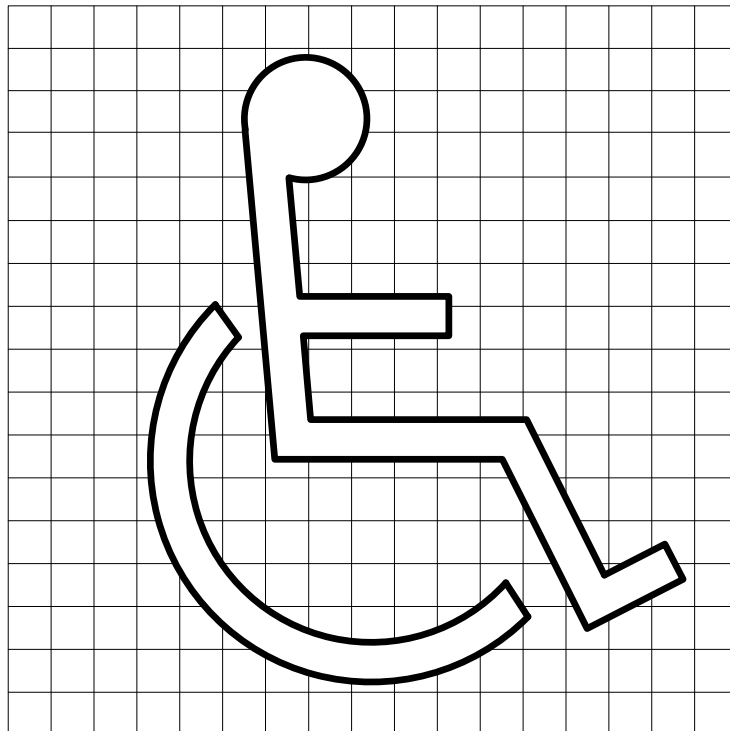
REV. DATE:

HANDICAP PARKING SIGN

DETAIL NO:

7003

DATE: 05/25/1996



REV. DATE:

# HANDICAP PARKING SYMBOL

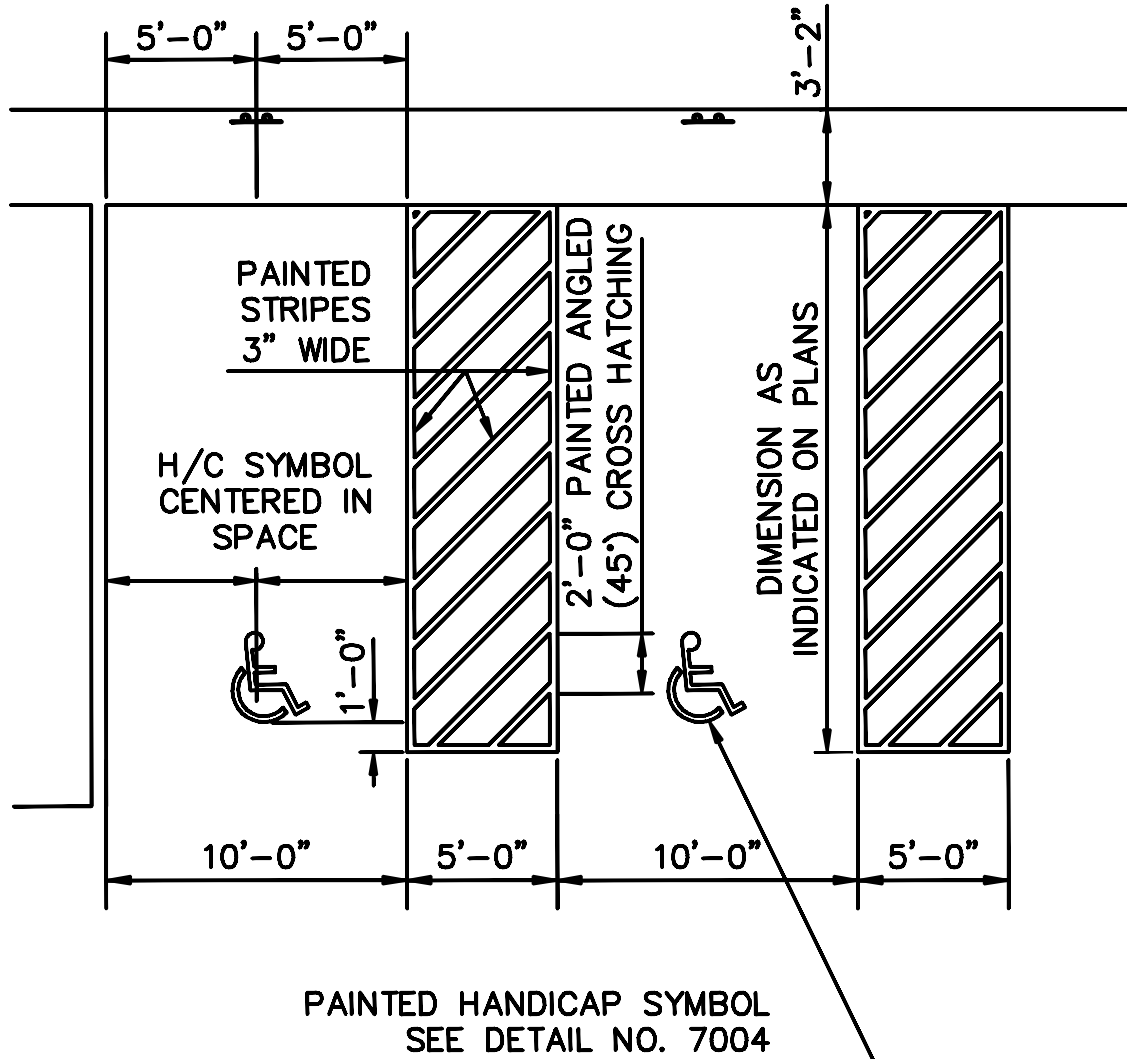
DETAIL NO:

7004

DATE: 05/25/1996



H/C SYMBOL SIGN CENTERED ON  
EACH SPACE SEE DETAIL NO. 7003



NTS

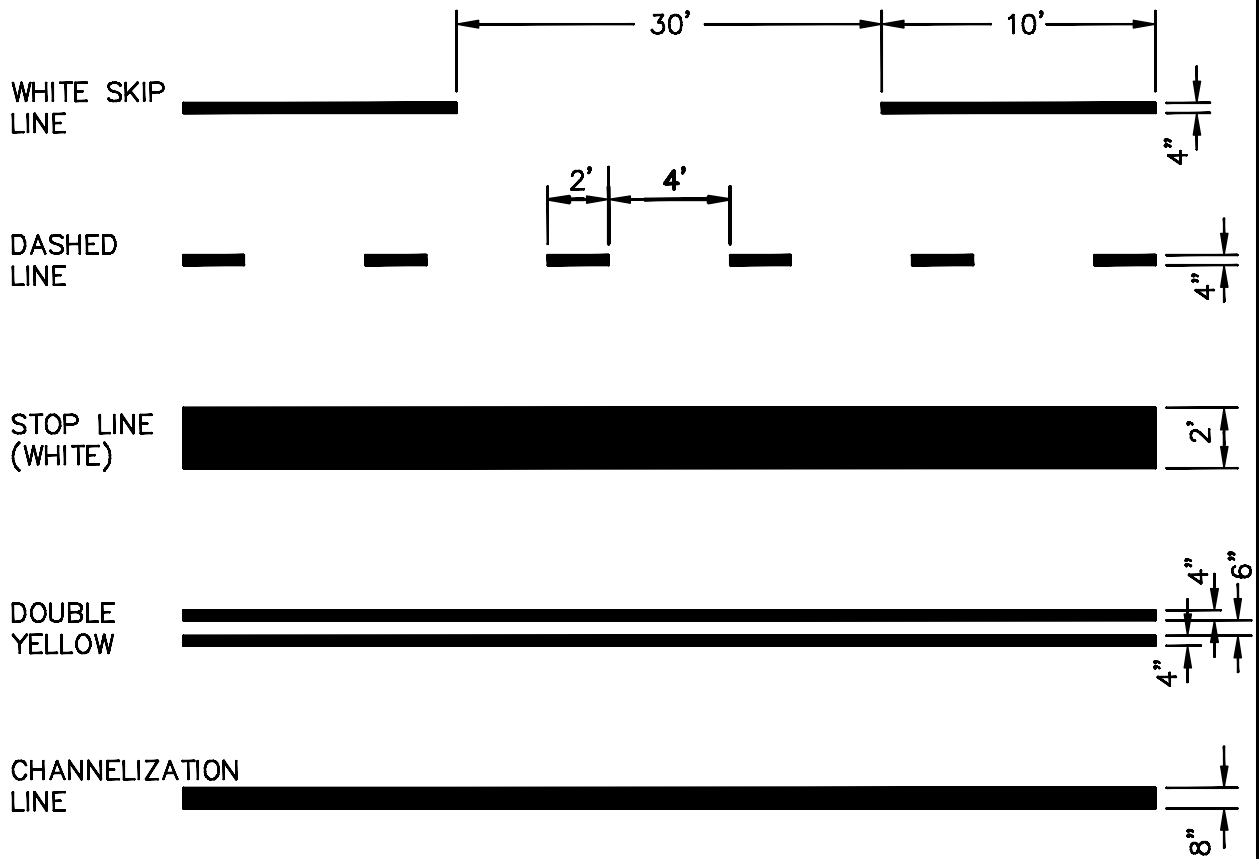
REV. DATE:  
06/26/2015

HANDICAP PARKING SPACE

DETAIL NO:

7004A

DATE: 08/28/2000



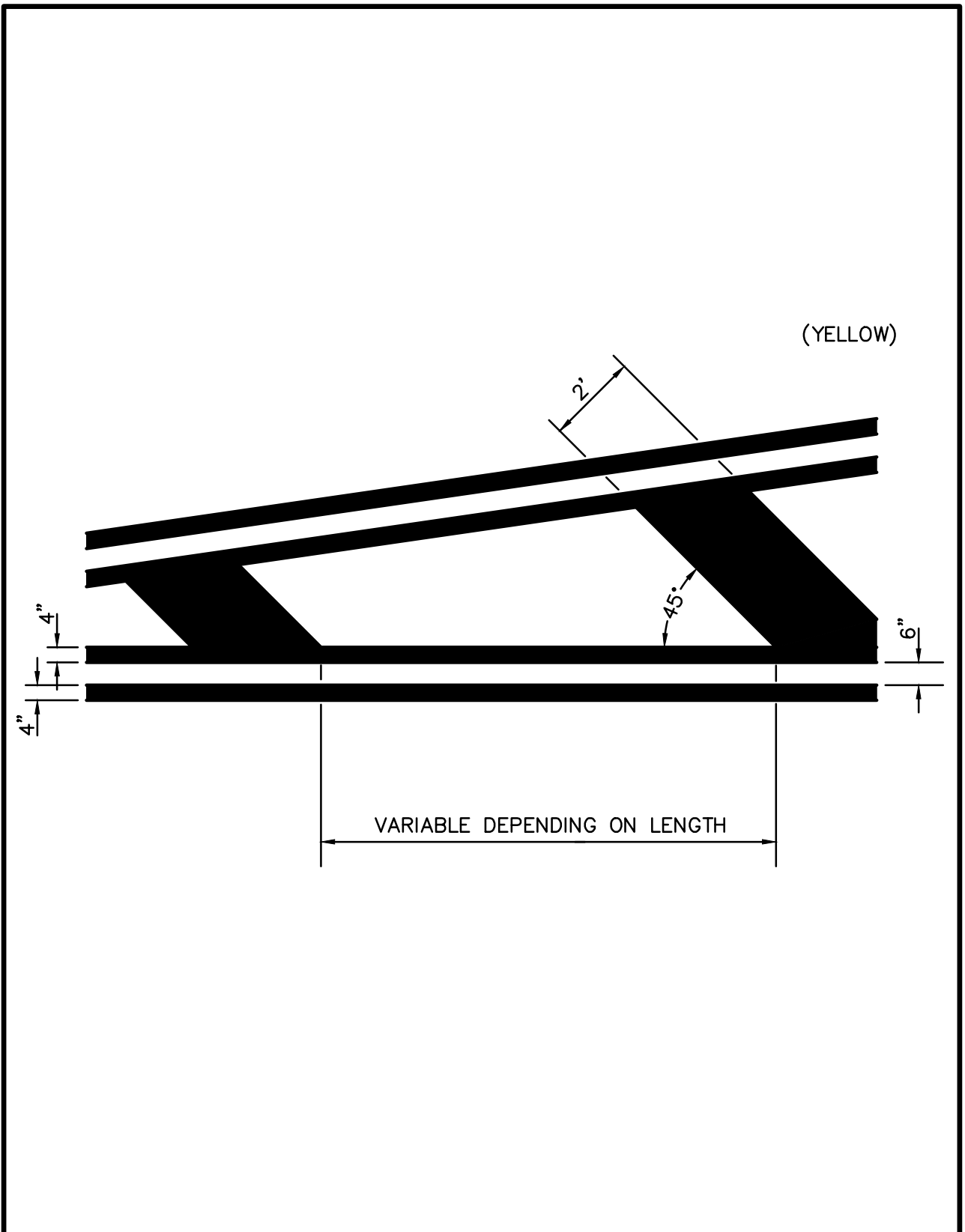
REV. DATE:

## STRIPING DETAIL

DETAIL NO:

7005

DATE: 07/15/1988



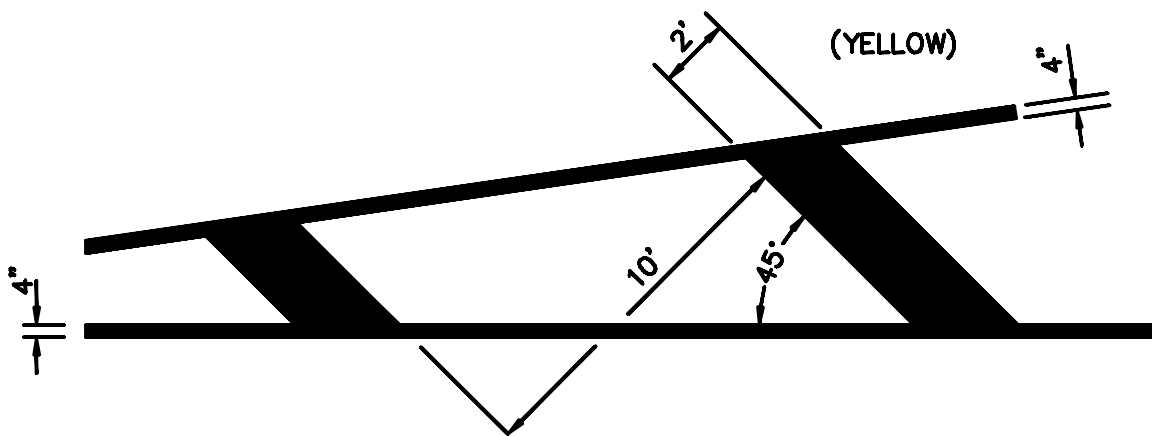
REV. DATE:

TYPICAL CENTER  
ISLAND

DETAIL NO:

7007

DATE: 08/29/2000



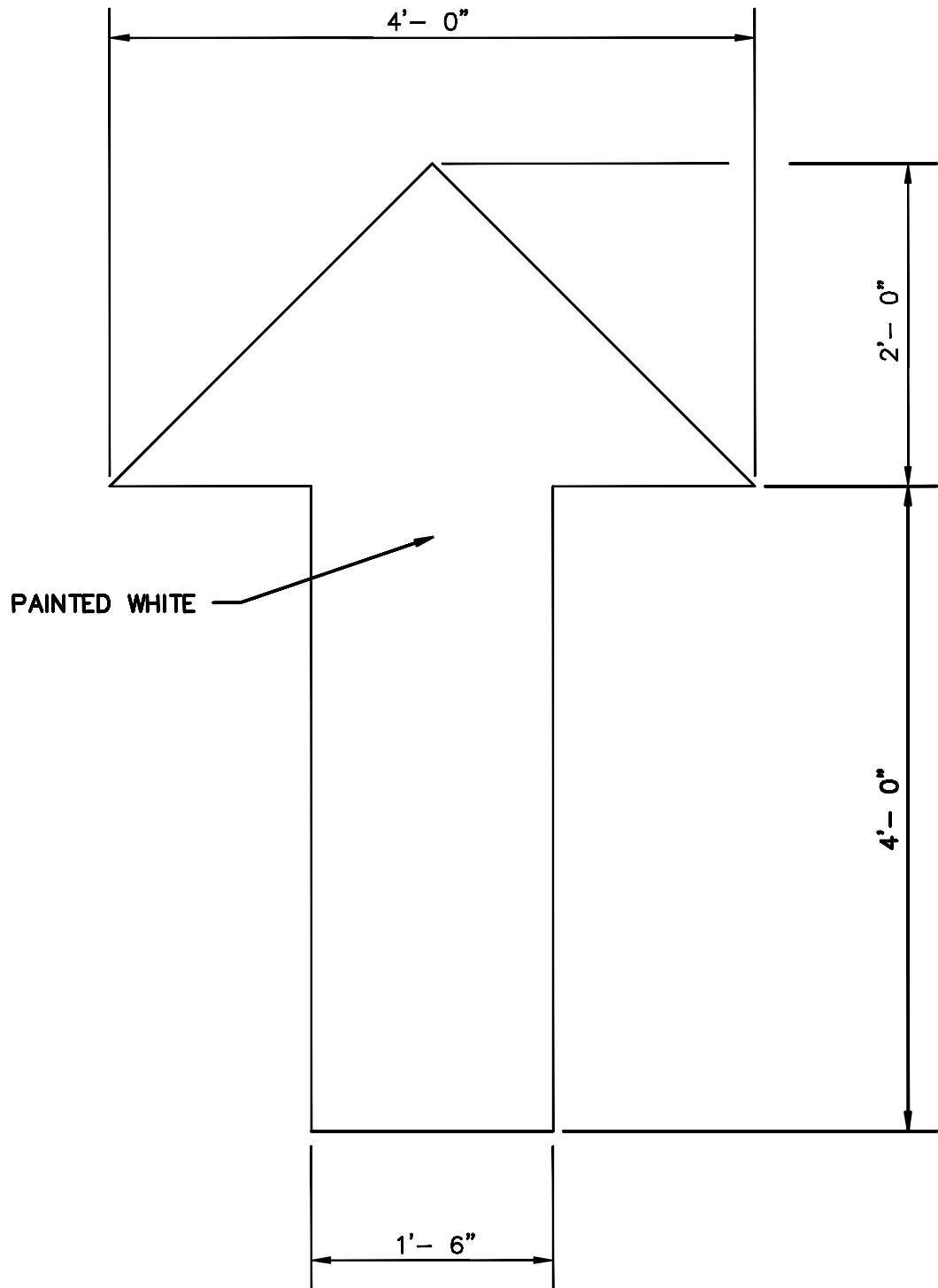
REV. DATE:

STRIPING –  
NO PARKING AREA

DETAIL NO:

7008

DATE: 08/29/2000



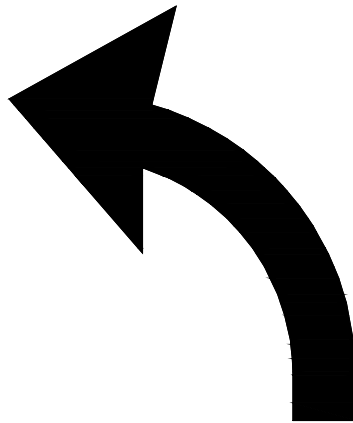
REV. DATE:

# DIRECTIONAL ARROW DETAIL

DETAIL NO:

7009

DATE: 07/15/1988



ONLY

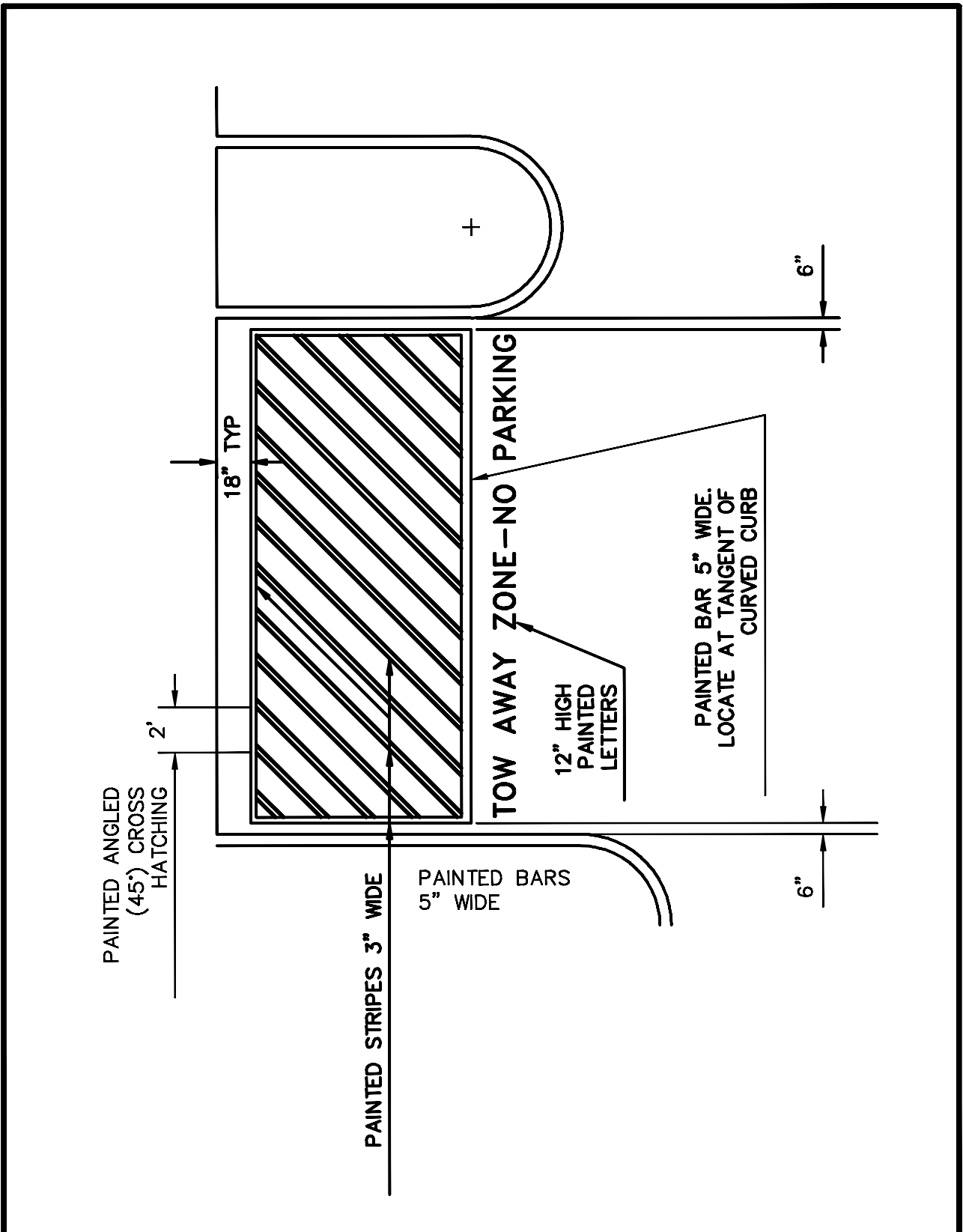
REV. DATE:

LEFT TURN LANE  
MARKINGS

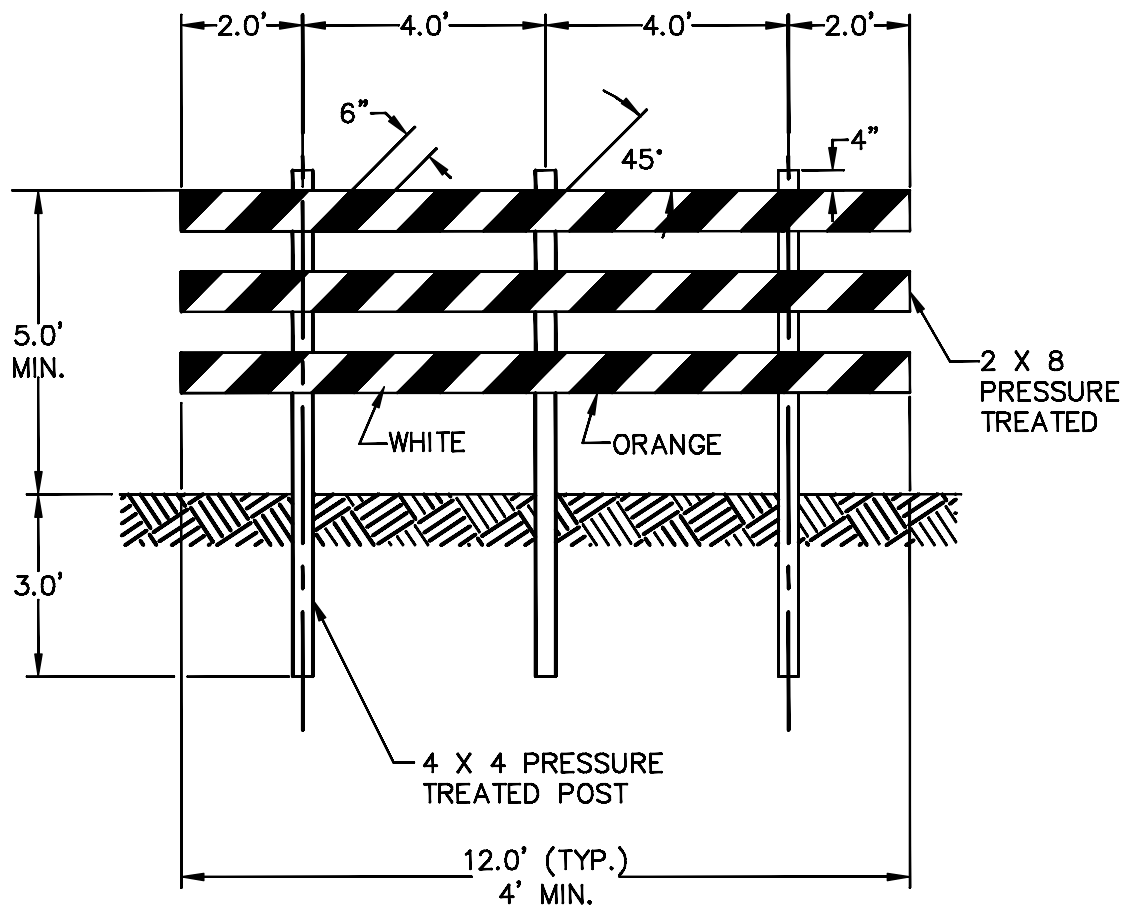
DETAIL NO:

7010

DATE: 07/15/1988



|            |   |  |
|------------|---|--|
| REV. DATE: | TOW AWAY-NO PARKING<br>ZONE<br>STRIPING | DETAIL NO:<br><br>7011<br>DATE: 03/31/2006 |
|------------|---|--|



REV. DATE:

# GADOT BARRICADE (TYPE III)

DETAIL NO:

7012

DATE: 07/15/1988



6X6P LOOP



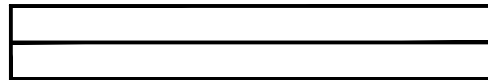
6X18 C-LOOP



6X40 D-LOOP



6X40 QUADRUPOLE LOOP



RR. CONTROLLER CABINET



CONTROLLER CABINET



PULLBOX-1



PULLBOX-2



PULLBOX-3



PULLBOX-4



PULLBOX-5



TRAFFIC POLE



PEDESTRIAN POLE



STRAIGHT LIGHT  
W/ BACK PLATE



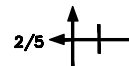
STRAIGHT LIGHT



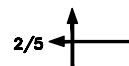
OVERHEAD SIGN



LEFT TURN LIGHT  
W/ BACK PLATE



LEFT TURN LIGHT



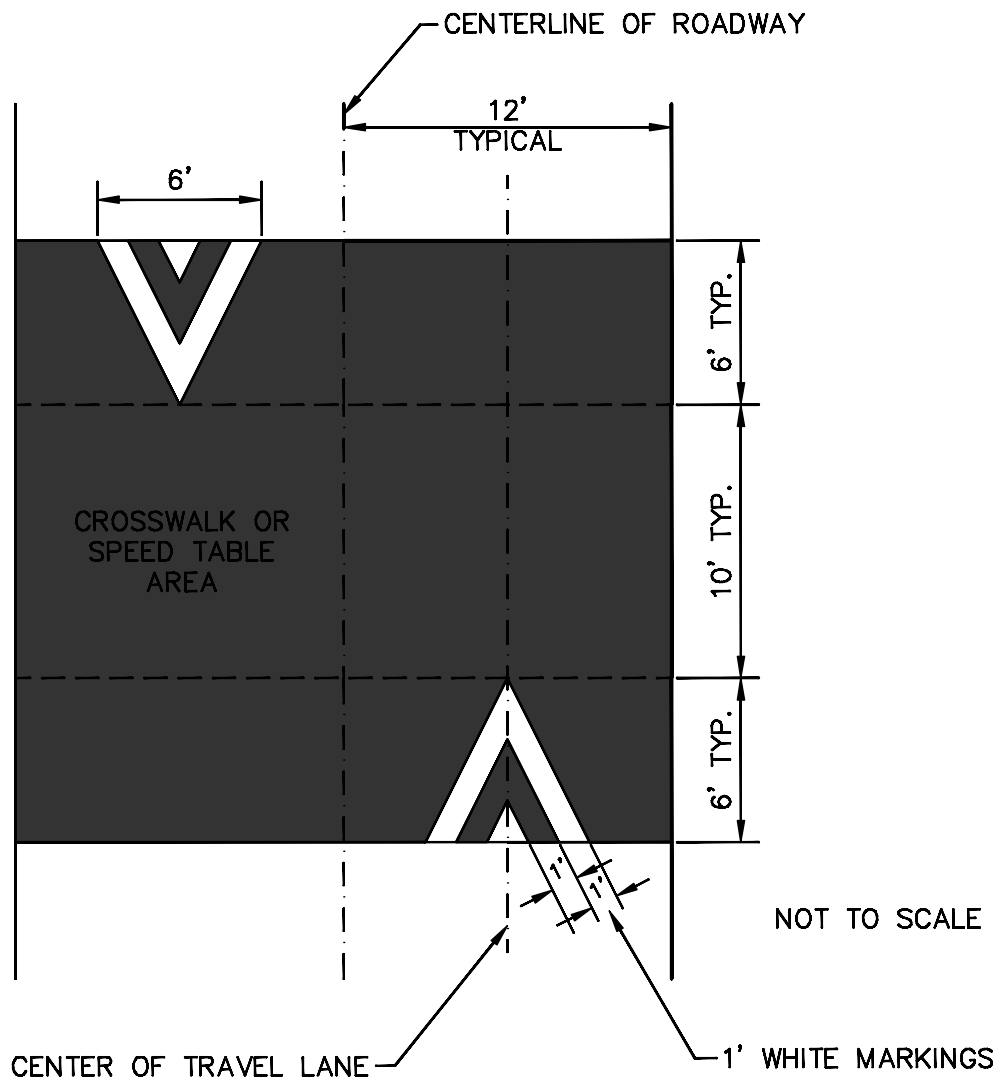
REV. DATE:

## TRAFFIC LEGEND

DETAIL NO:

7013

DATE: 02/04/2013



**NOTE:** SPEED TABLES WILL NOT BE LOCATED WITHIN 20 FEET OF DRIVEWAYS.

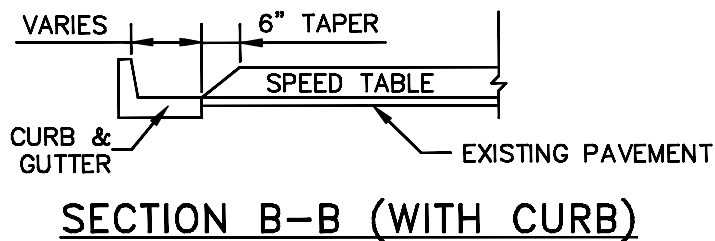
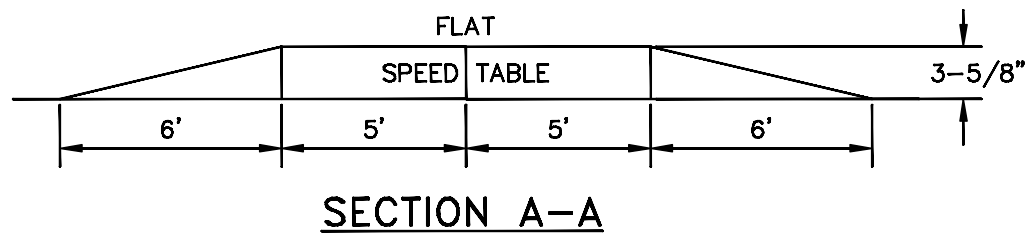
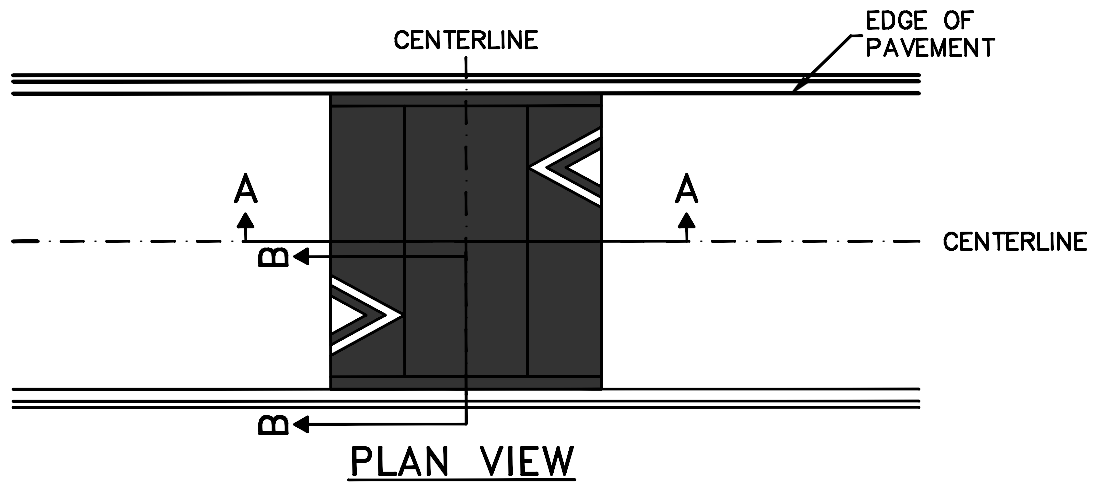
REV. DATE:

# SPEED TABLES OR ELEVATED CROSSWALKS PAVEMENT MARKINGS

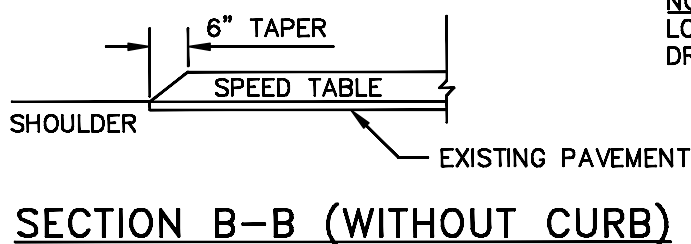
DETAIL NO:

7014

DATE: 07/28/2010



NOT TO SCALE



**NOTE:** SPEED TABLES WILL NOT BE LOCATED WITHIN 20 FEET OF DRIVEWAYS.

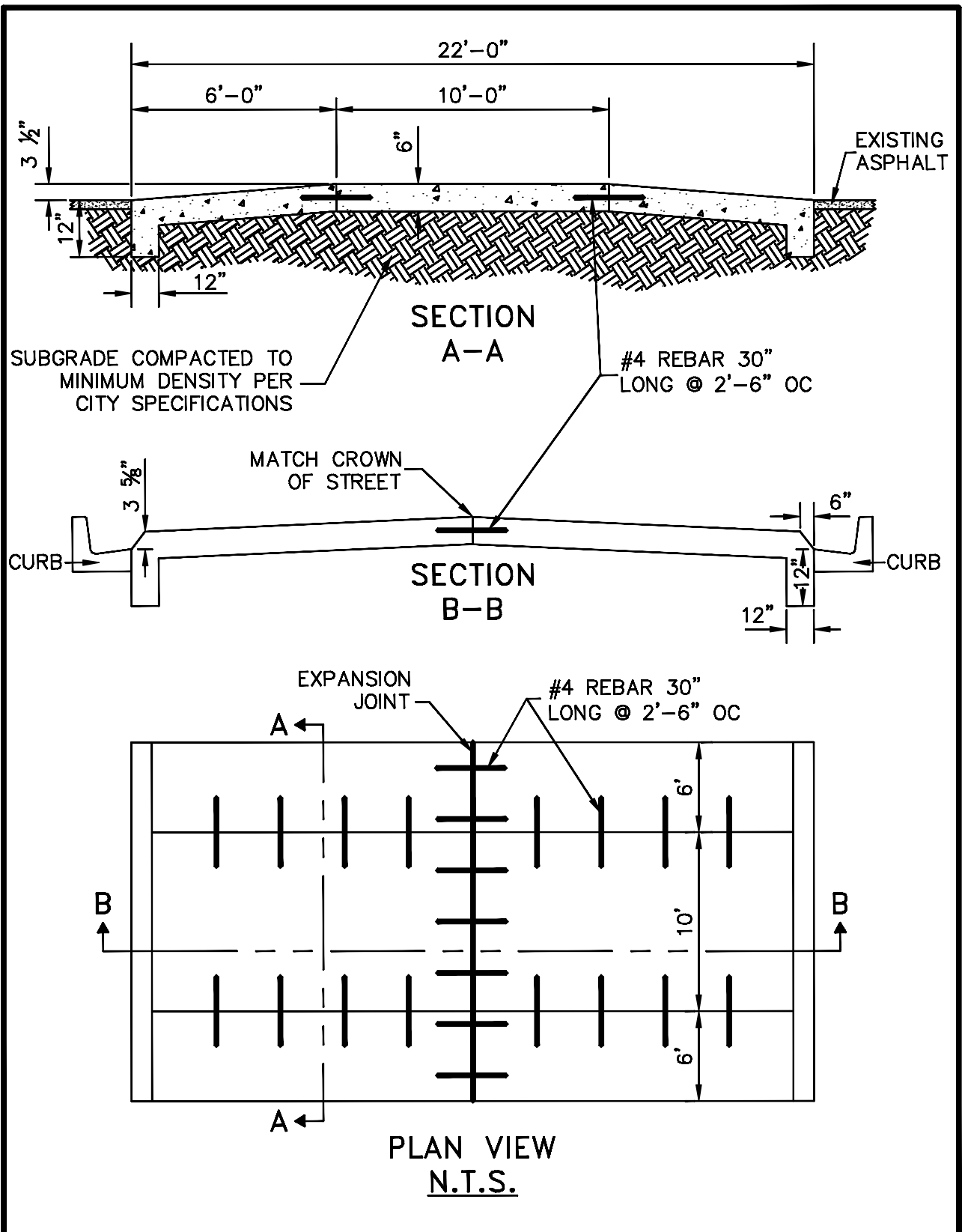
REV. DATE:  
07/01/2015

# SPEED TABLES OR ELEVATED CROSSWALKS TYPICAL CROSS SECTIONS

DETAIL NO:

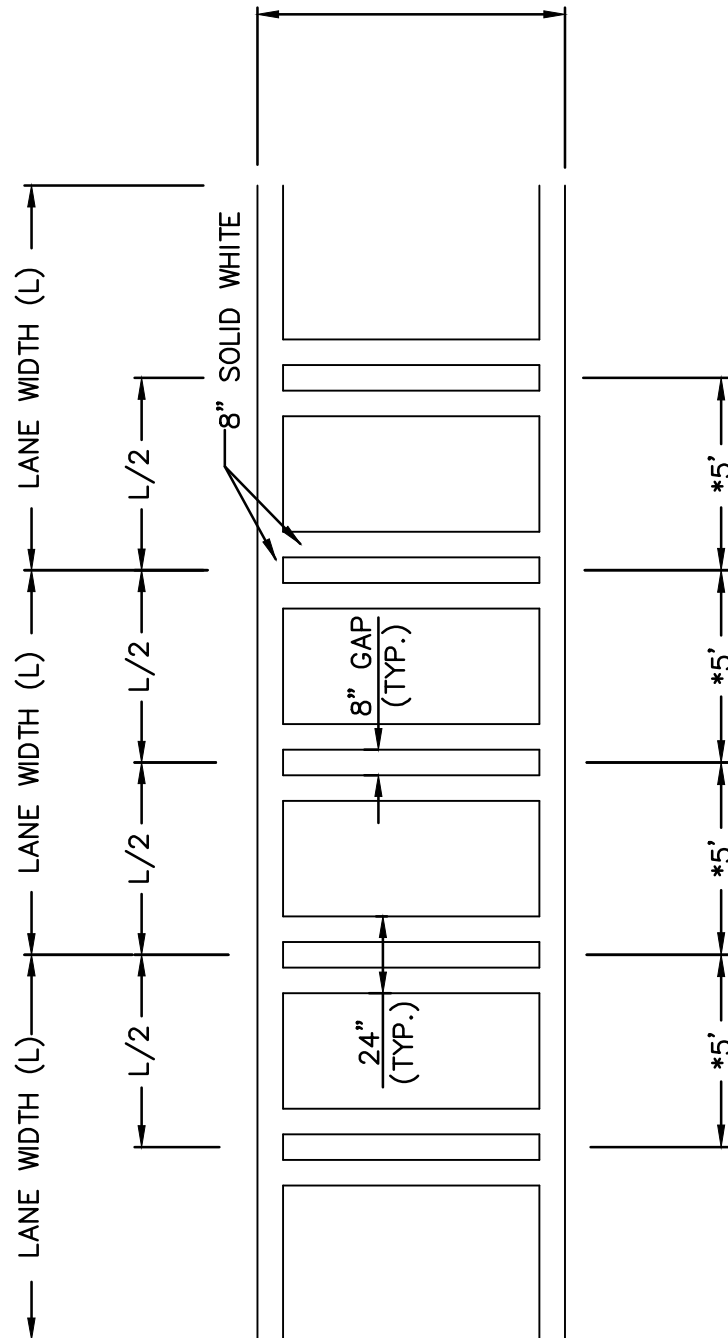
**7015**

DATE: 07/29/2010



|                          |                     |   |
|--------------------------|---------------------|---|
| REV. DATE:<br>07/01/2015 | CONCRETE SPEED BUMP | DETAIL NO:<br>7015A<br>DATE: 03/13/2015 |
|--------------------------|---------------------|---|

8' MIN., OR WIDTH OF SIDEWALK.  
WHICHEVER IS GREATER  
(BUT NOT MORE THAN 1'  
BEYOND EDGE OF SIDEWALK)



\* USE WHERE THE LANE WIDTH EXCEEDS 12'  
OR WHERE LANE LINES HAVE BEEN OMITTED.

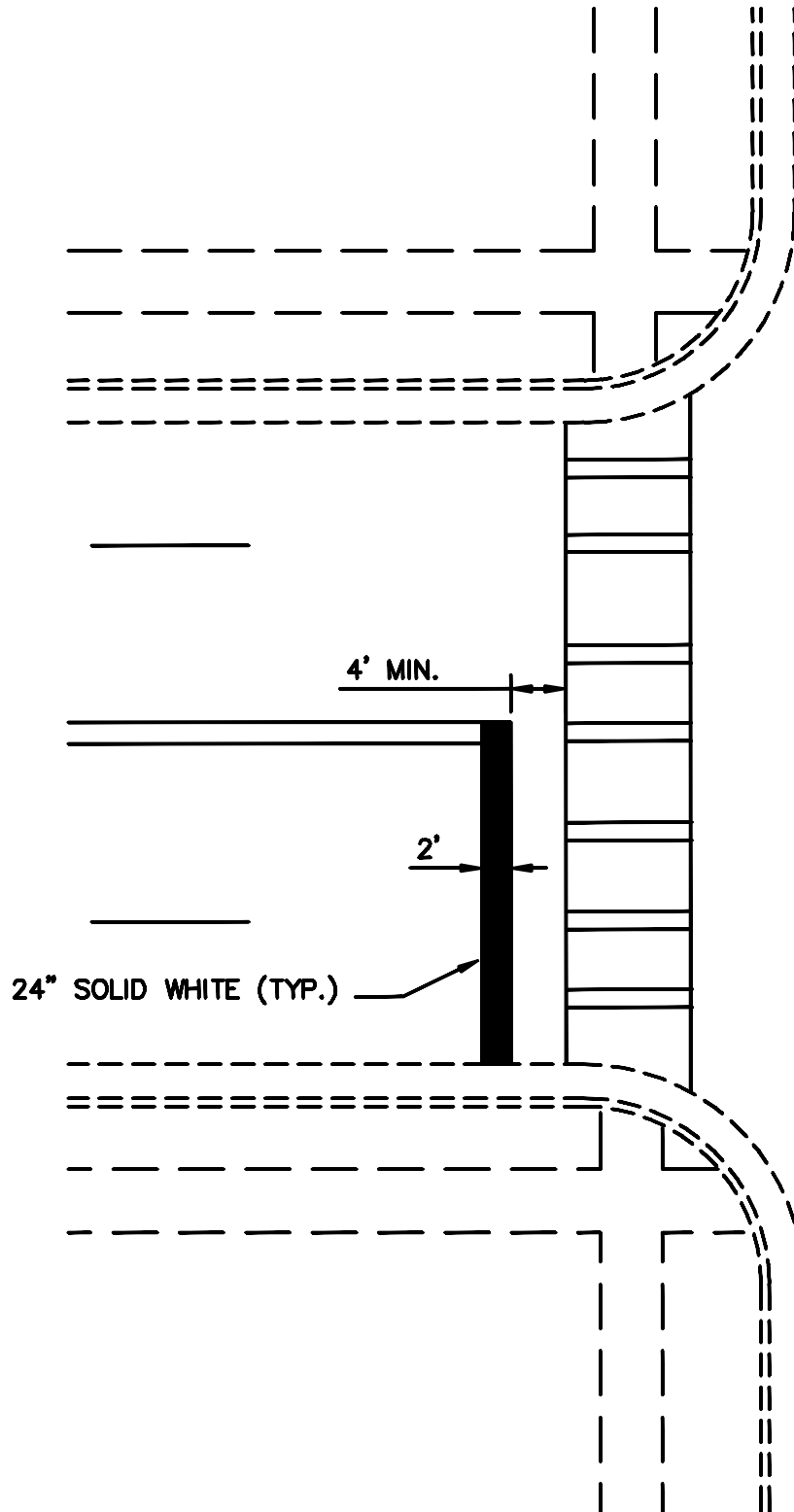
REV. DATE:

## GADOT STANDARD CROSSWALK

DETAIL NO:

7016

DATE: 02/27/2013



REV. DATE:

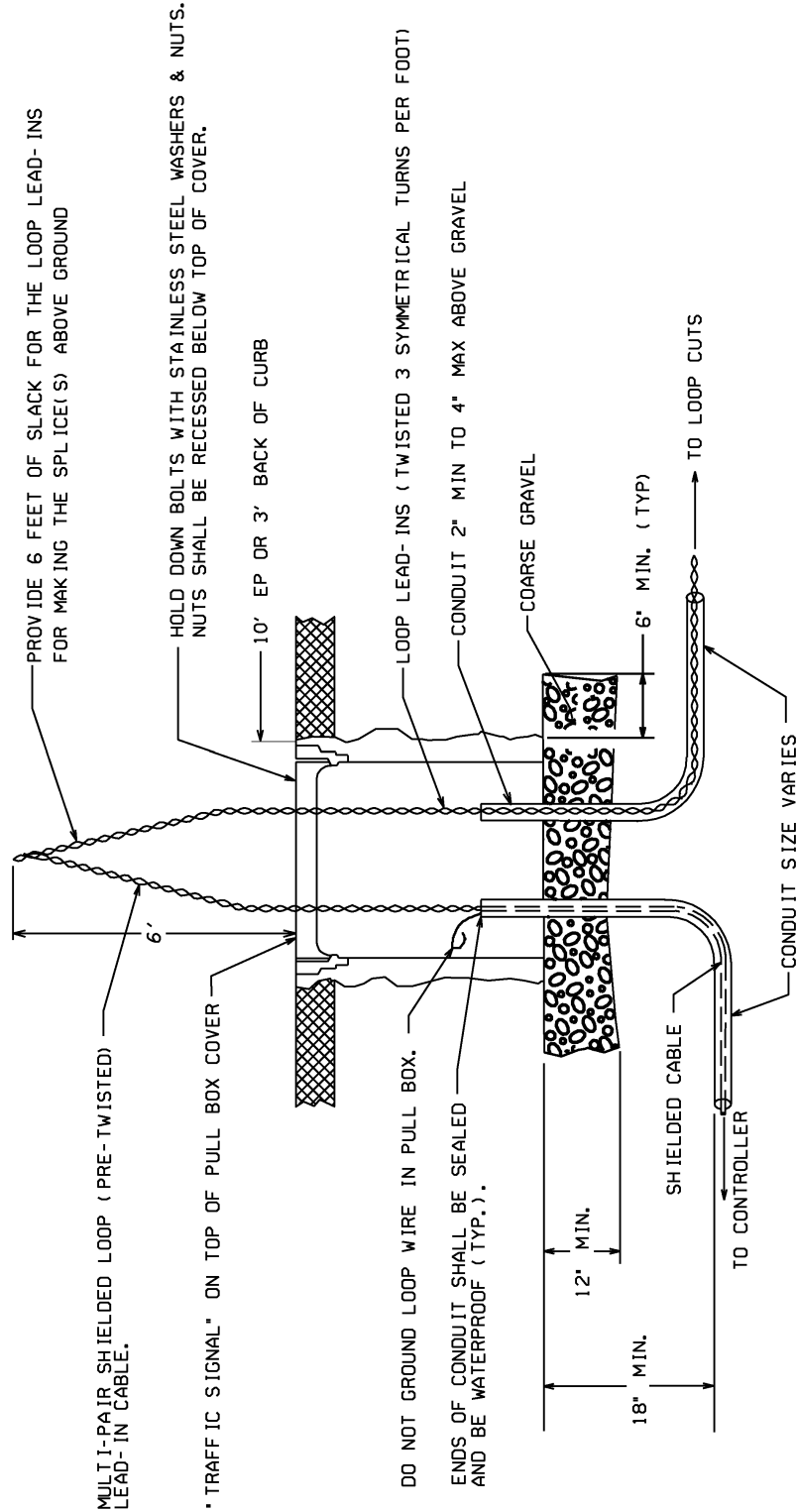
# GADOT TYPICAL LOCATION OF STOP BARS

DETAIL NO:

7017

DATE: 02/28/2013

# PULL BOX-SPLICE DETAILS



## NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOS. 7019 & 7020.

REV. DATE:  
07/02/2015

PULL BOX-SPLICE DETAILS

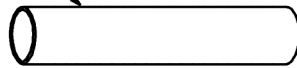
DETAIL NO:

7018

DATE: 03/04/2013

## ALTERNATE #1

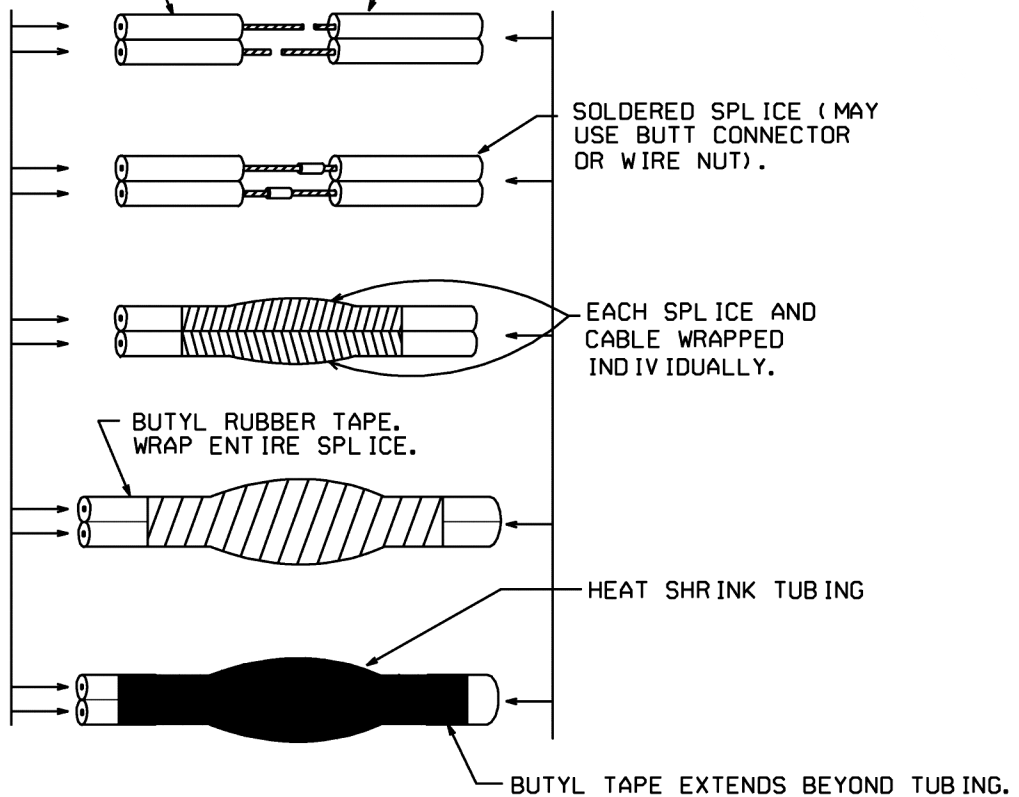
HEAT SHRINK TUBING



## INITIAL SET-UP

1/C # 14 AWG. WIRE

2/C #12 AWG TWISTED,  
SHIELDED BELDEN CABLE.



### NOTE:

FINISHED SPLICE MUST BE WATERPROOF.

### NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION  
GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOS. 7018 & 7020.

REV. DATE:  
03/04/2013

## SPLICE DETAILS ALTERNATE NO. 1

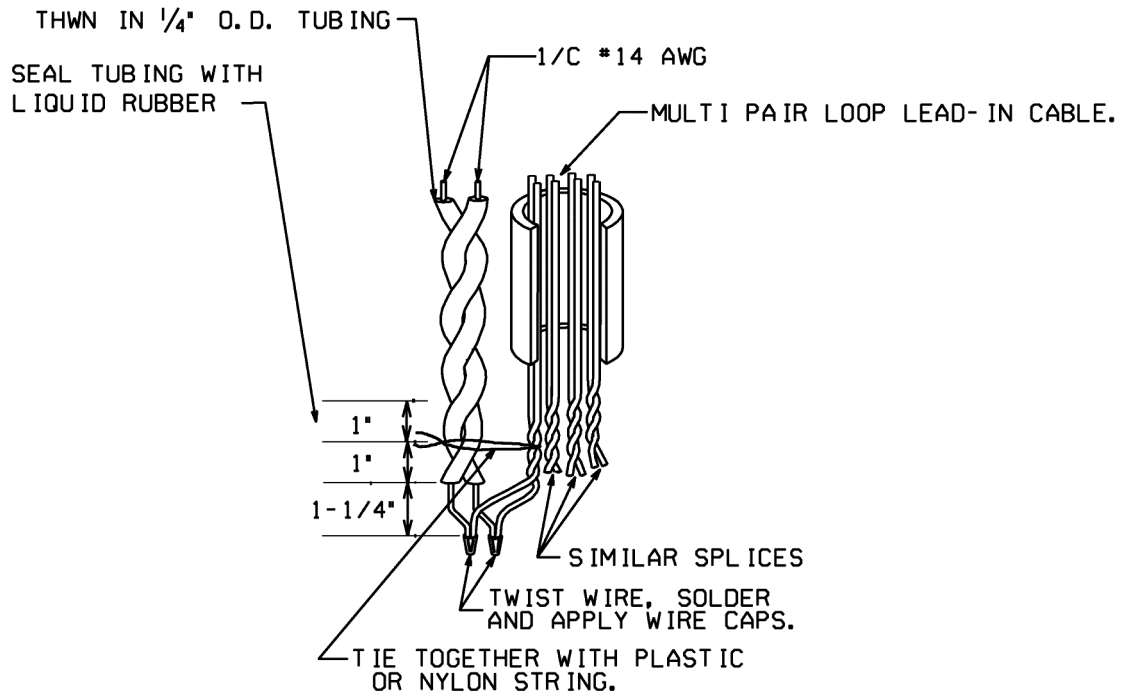
DETAIL NO:

7019

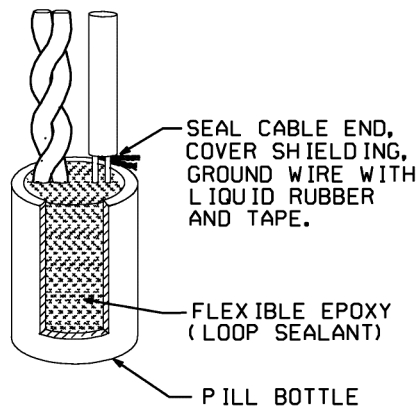
DATE: 03/04/2013



## ALTERNATE #2



### FINISHED SPLICE



#### NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOs. 7018 & 7019.

REV. DATE:  
07/02/2015

## SPLICE DETAILS ALTERNATE NO. 2

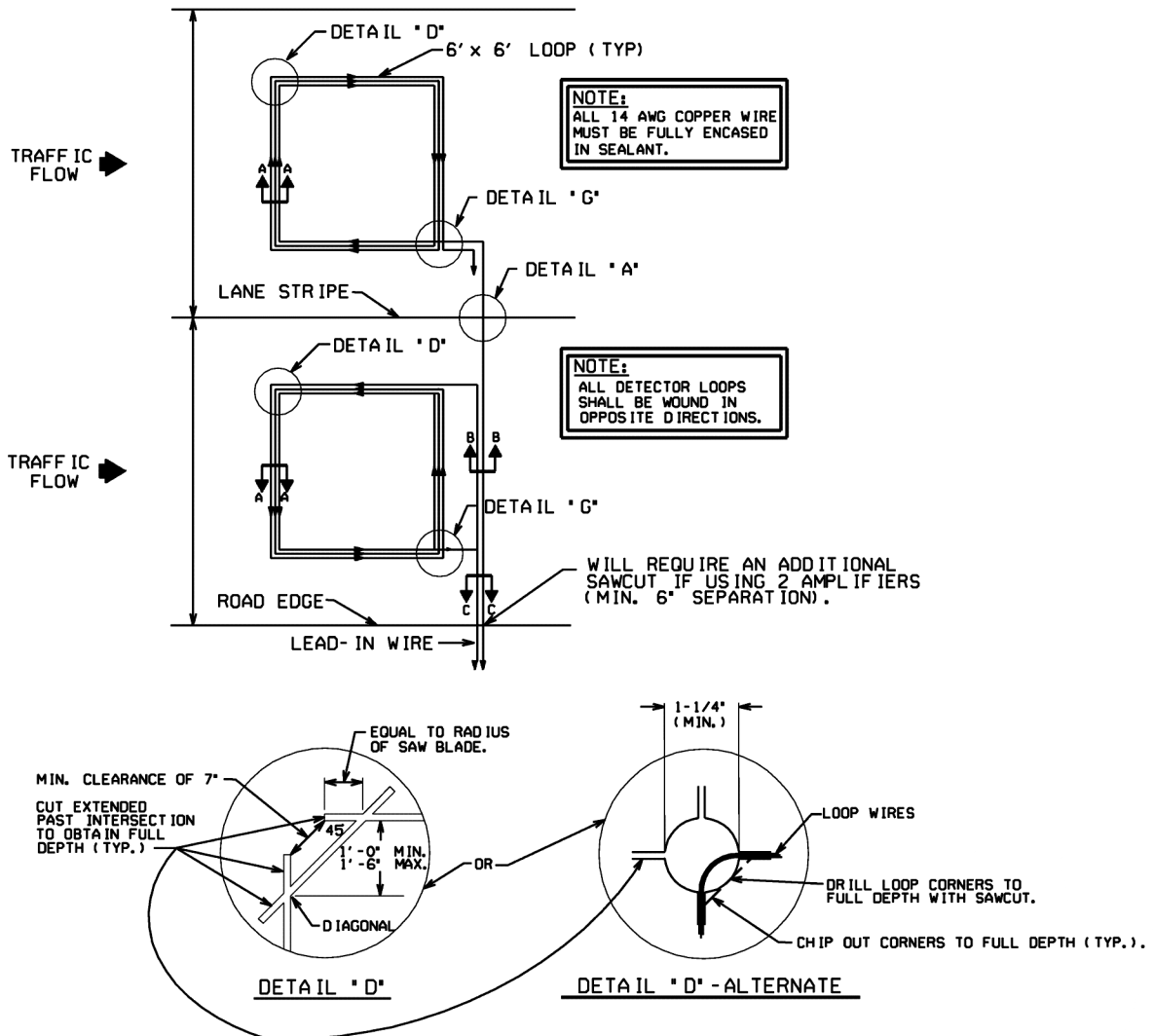
DETAIL NO:

7020

DATE: 03/04/2013

# INDUCTIVE LOOP VEHICLE DETECTOR DETAILS USING STRANDED COPPER WIRE

## PLAN VIEW OF STANDARD LOOP SAW CUTS



### NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOS. 7022 - 7024.

REV. DATE:  
07/02/2015

## STANDARD LOOP SAW CUTS PLAN & DETAIL "D"

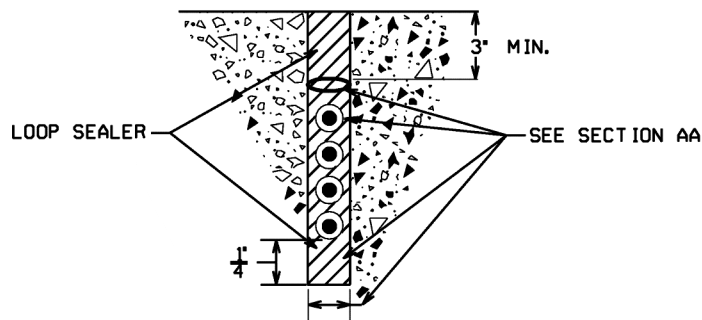
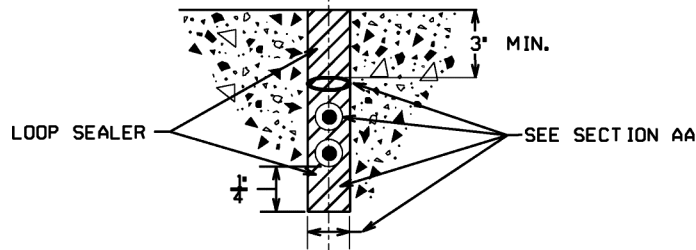
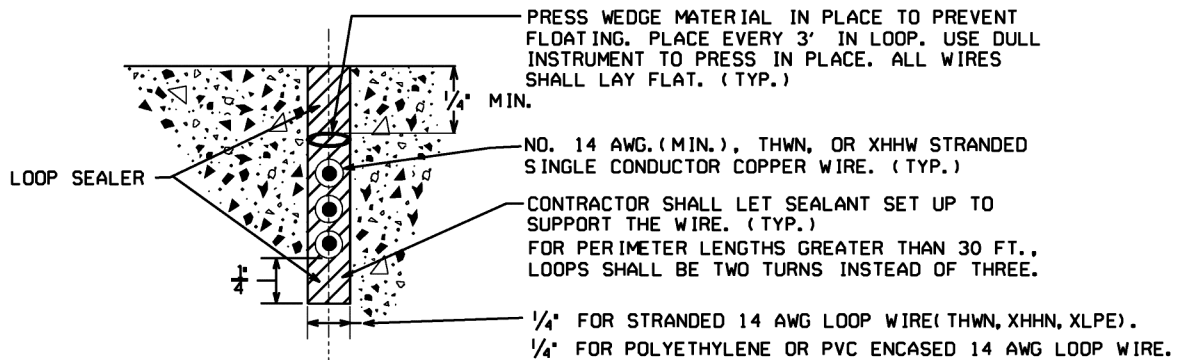
DETAIL NO:

7021

DATE: 03/04/2013

# INDUCTIVE LOOP VEHICLE DETECTOR DETAILS

## USING STRANDED COPPER WIRE



### NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION  
GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOS. 7021, & 7022A - 7024.

REV. DATE:  
07/02/2015

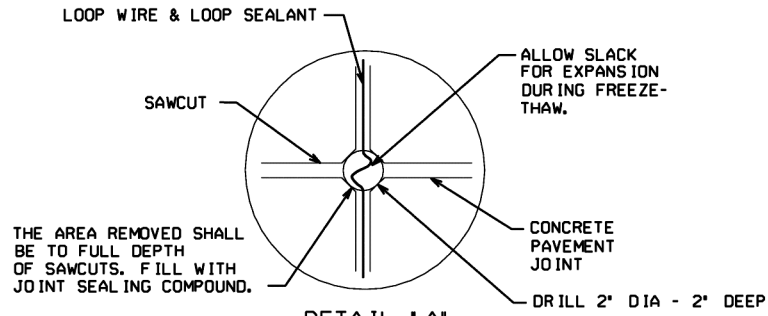
INDUCTIVE LOOP VEHICLE  
DETECTOR DETAILS  
SECTIONS "AA" - "CC"

DETAIL NO:

7022

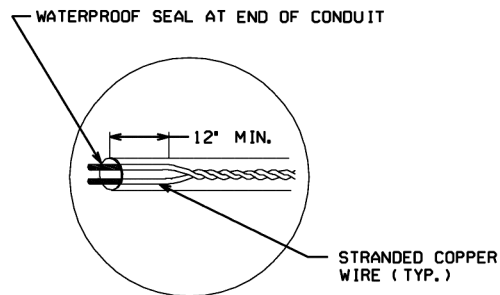
DATE: 03/04/2013

# INDUCTIVE LOOP VEHICLE DETECTOR DETAILS USING STRANDED COPPER WIRE

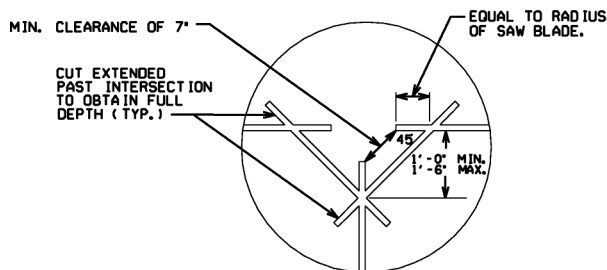


DETAIL "A"

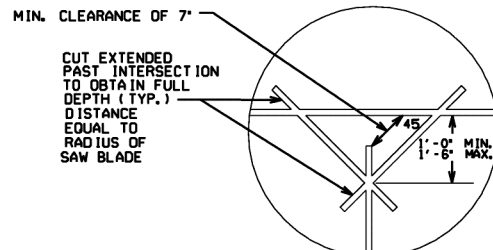
NOTE: USE FOR CONCRETE PAVEMENT ONLY.



DETAIL "E"



DETAIL "F"



DETAIL "G"

**NOTE:**

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION  
GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOS. 7021-7022, & 7023-7024.

REV. DATE:  
07/02/2015

INDUCTIVE LOOP VEHICLE  
DETECTOR DETAILS  
"A", "E", "F" & "G"

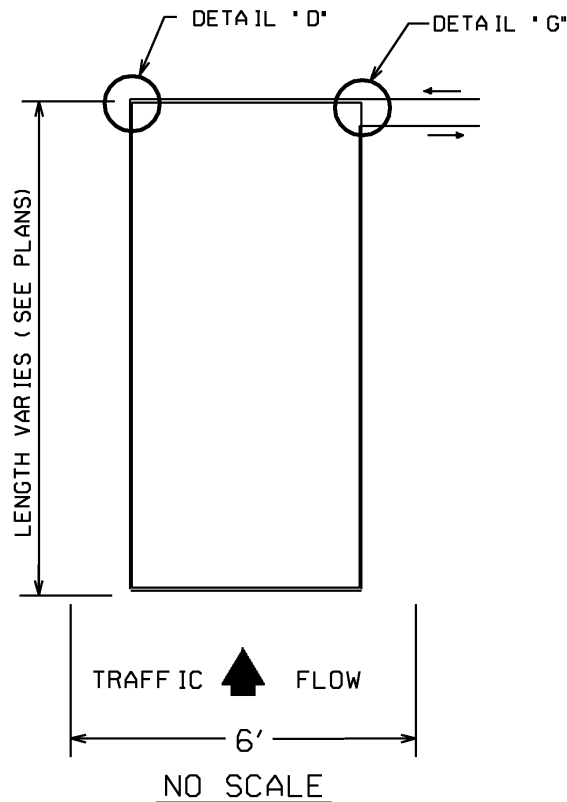
DETAIL NO:

7022A

DATE: 03/04/2013

INDUCTIVE LOOP VEHICLE DETECTOR DETAILS  
USING STRANDED COPPER WIRE

PLAN VIEW OF STANDARD LOOP



LOOP WIRE CONFIGURATION

THE DOUBLE LAYER CONFIGURATION  
(2-2) SHOWN IS A MINIMUM DESIGN  
FOR NORMAL INSTALLATIONS  
WHEN REQUIRED BY THE PLANS.

NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION  
GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOS. 7021 - 7022A, & 7024.

REV. DATE:  
07/02/2015

INDUCTIVE LOOP VEHICLE  
DETECTOR DETAILS  
STANDARD LOOP PLAN VIEW

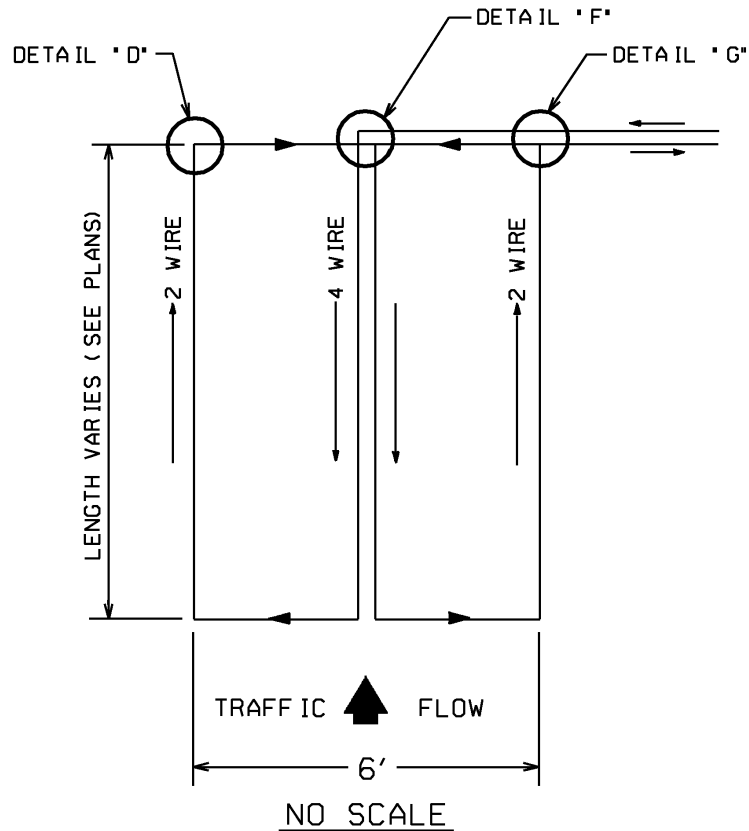
DETAIL NO:

7023

DATE: 03/04/2013

INDUCTIVE LOOP VEHICLE DETECTOR DETAILS  
USING STRANDED COPPER WIRE

PLAN VIEW OF QUADRUPOLE



LOOP WIRE CONFIGURATION

THE DOUBLE LAYER CONFIGURATION  
(2-4-2) SHOWN IS A MINIMUM DESIGN  
FOR NORMAL INSTALLATIONS  
WHEN REQUIRED BY THE PLANS.

NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION  
GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NOS. 7021 - 7023.

REV. DATE:  
07/06/2015

INDUCTIVE LOOP VEHICLE  
DETECTOR DETAILS  
QUADRUPOLE PLAN VIEW

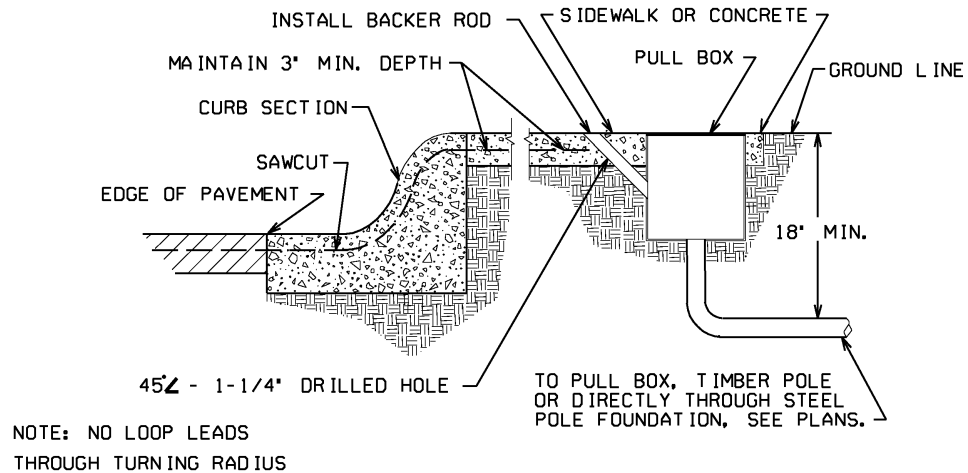
DETAIL NO:

7024

DATE: 03/04/2013

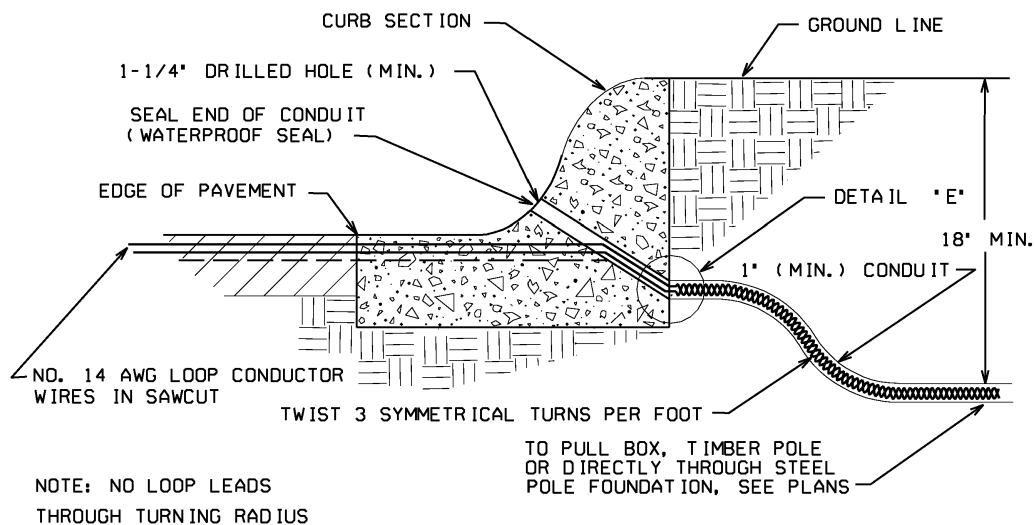
# TYPICAL CURB DETAIL

(WITH SIDEWALK)



# TYPICAL CURB DETAIL

(WITHOUT SIDEWALK)



## NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NO 7025A.

REV. DATE:  
07/06/2015

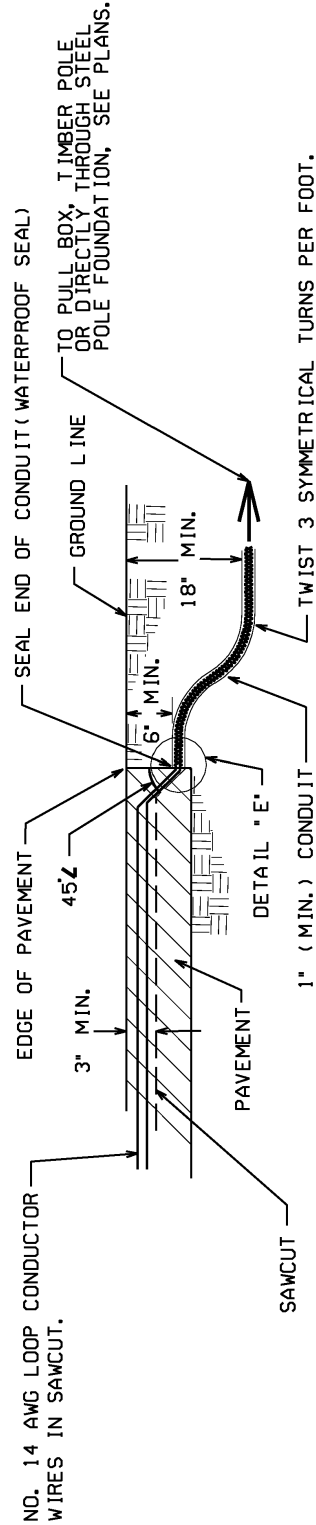
## INDUCTIVE LOOP VEHICLE DETECTOR DETAILS TYPICAL CURB DETAILS

DETAIL NO:

7025

DATE: 03/04/2013

# DETAIL WHERE NO CURB EXISTS



NOTE: NO LOOP LEADS  
THROUGH TURNING RADIUS

## NOTE:

1. REFERENCE TRAFFIC SIGNAL DETAIL INDUCTIVE-LOOP DETECTOR INSTALLATION  
GDOT DETAIL NO. TS-01
2. ALSO SEE COA STD. DETAILS NO 7025.

REV. DATE:  
07/06/2015

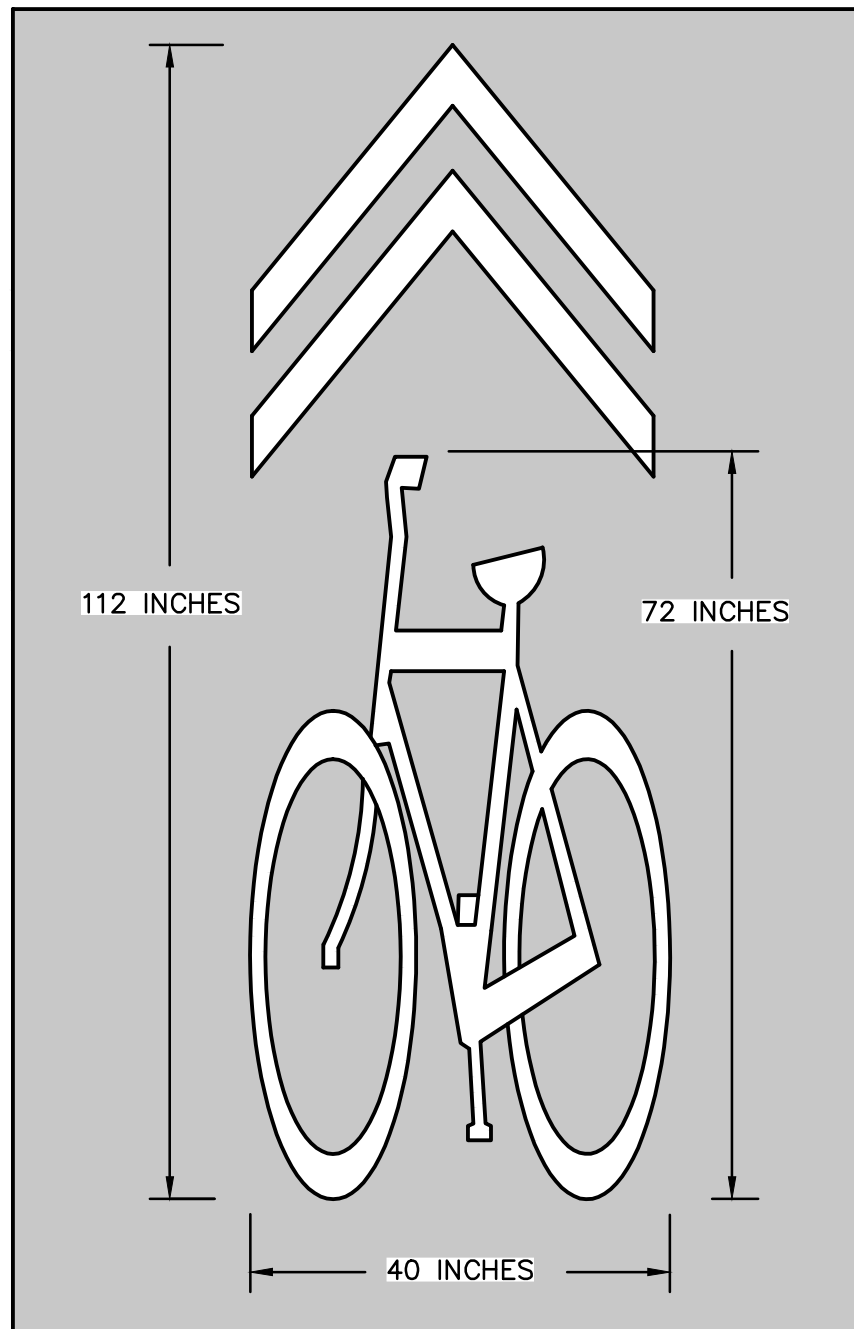
## INDUCTIVE LOOP VEHICLE DETECTOR DETAILS DETAIL WITH NO CURB

DETAIL NO:

7025A

DATE: 03/04/2013





NOTE:  
BICYCLE MARKING TEMPLATE SHALL BE ENNIS-FLINT  
(PREMARK) ITEM PM600833VG, THERMOPLASTIC  
OR EQUAL.

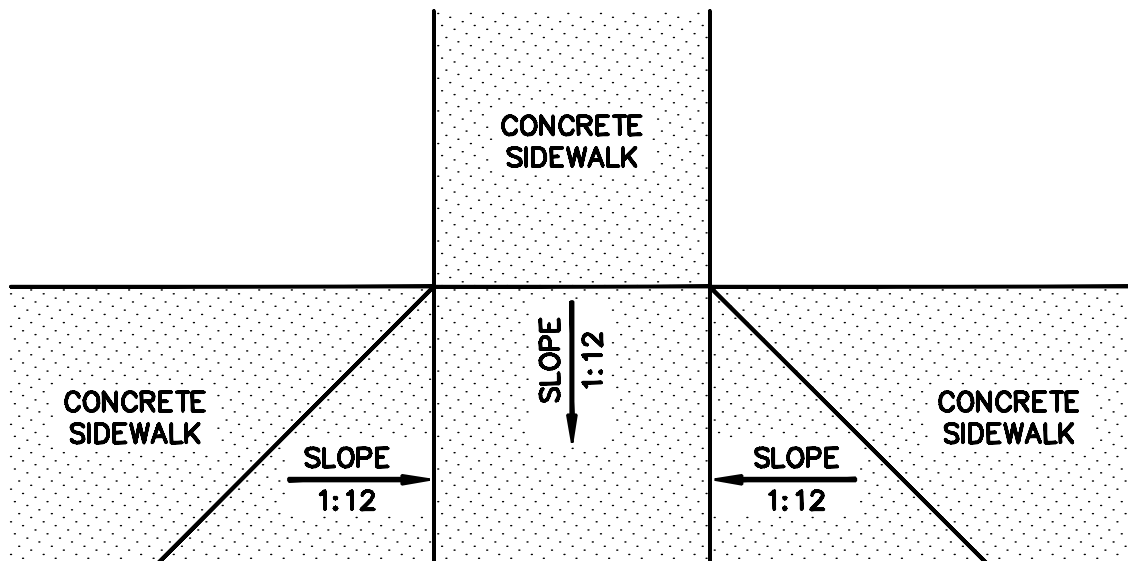
REV. DATE:  
07/06/2015

## SHARED LANE MARKING BICYCLE MARKING

DETAIL NO:

7026

DATE: 03/19/2013



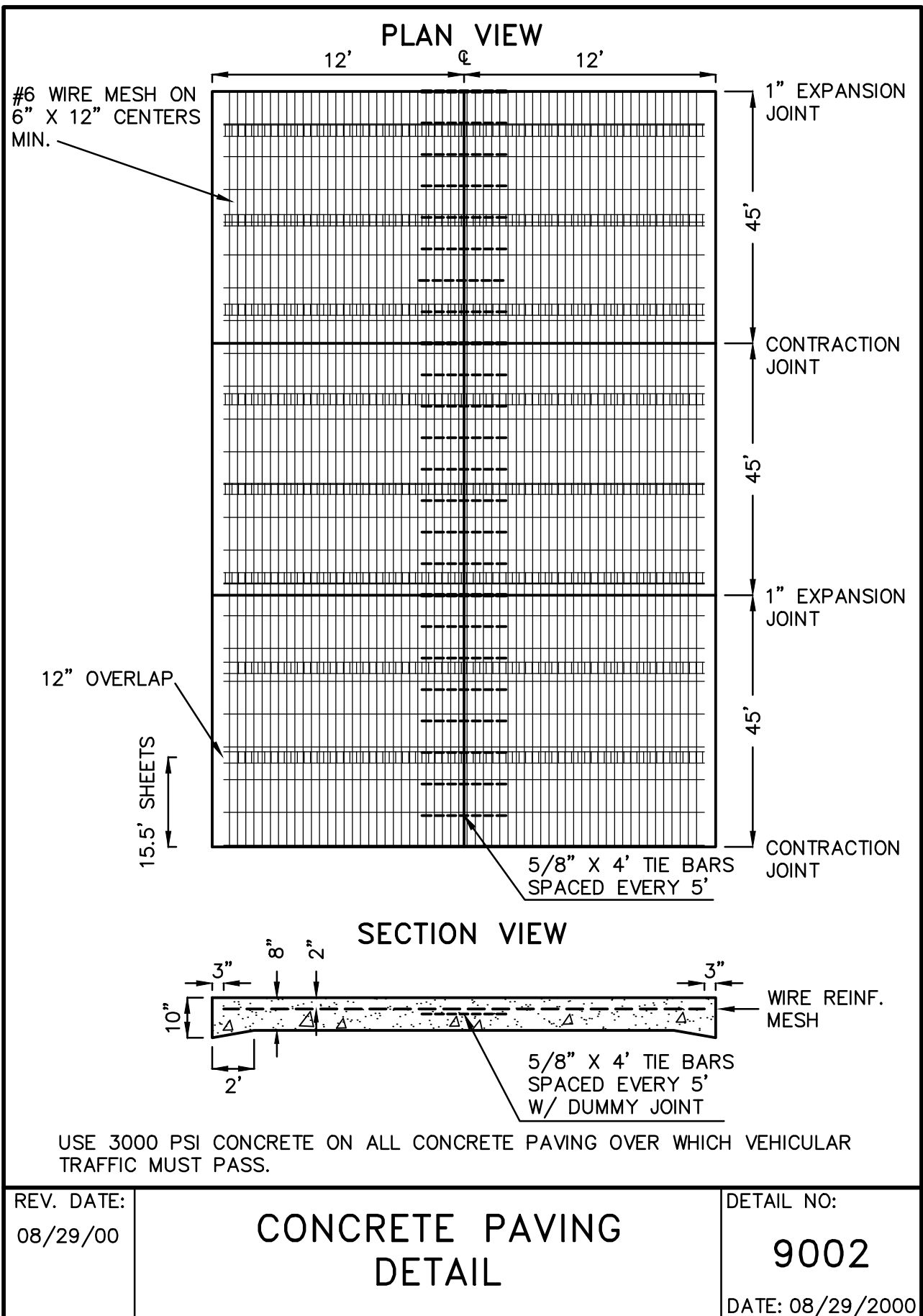
REV. DATE:  
08/28/00

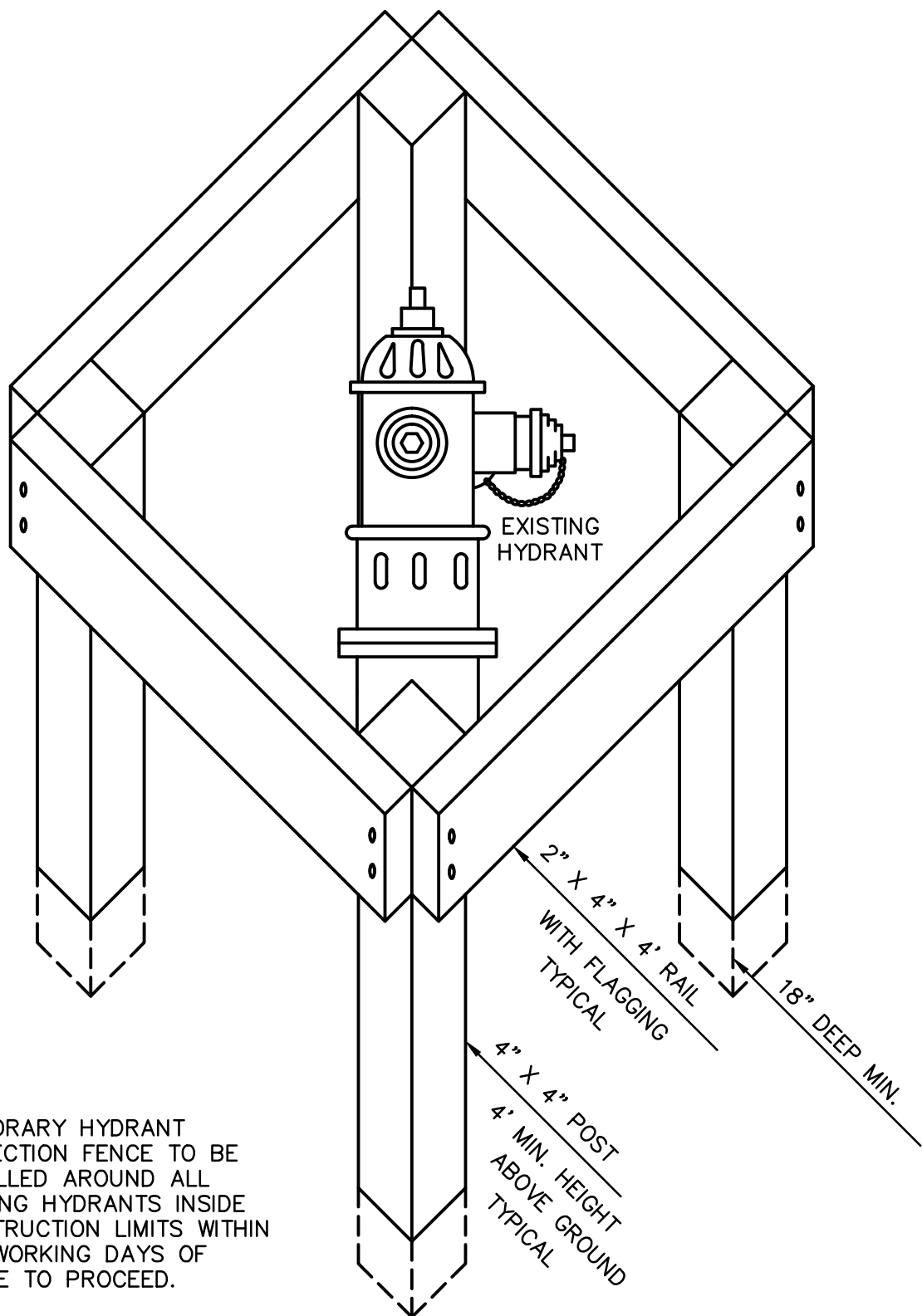
## HANDICAP CURB CUT

DETAIL NO:

**9001**

DATE: 08/28/2000





TEMPORARY HYDRANT  
PROTECTION FENCE TO BE  
INSTALLED AROUND ALL  
EXISTING HYDRANTS INSIDE  
CONSTRUCTION LIMITS WITHIN  
FIVE WORKING DAYS OF  
NOTICE TO PROCEED.

REV. DATE:  
08/29/00

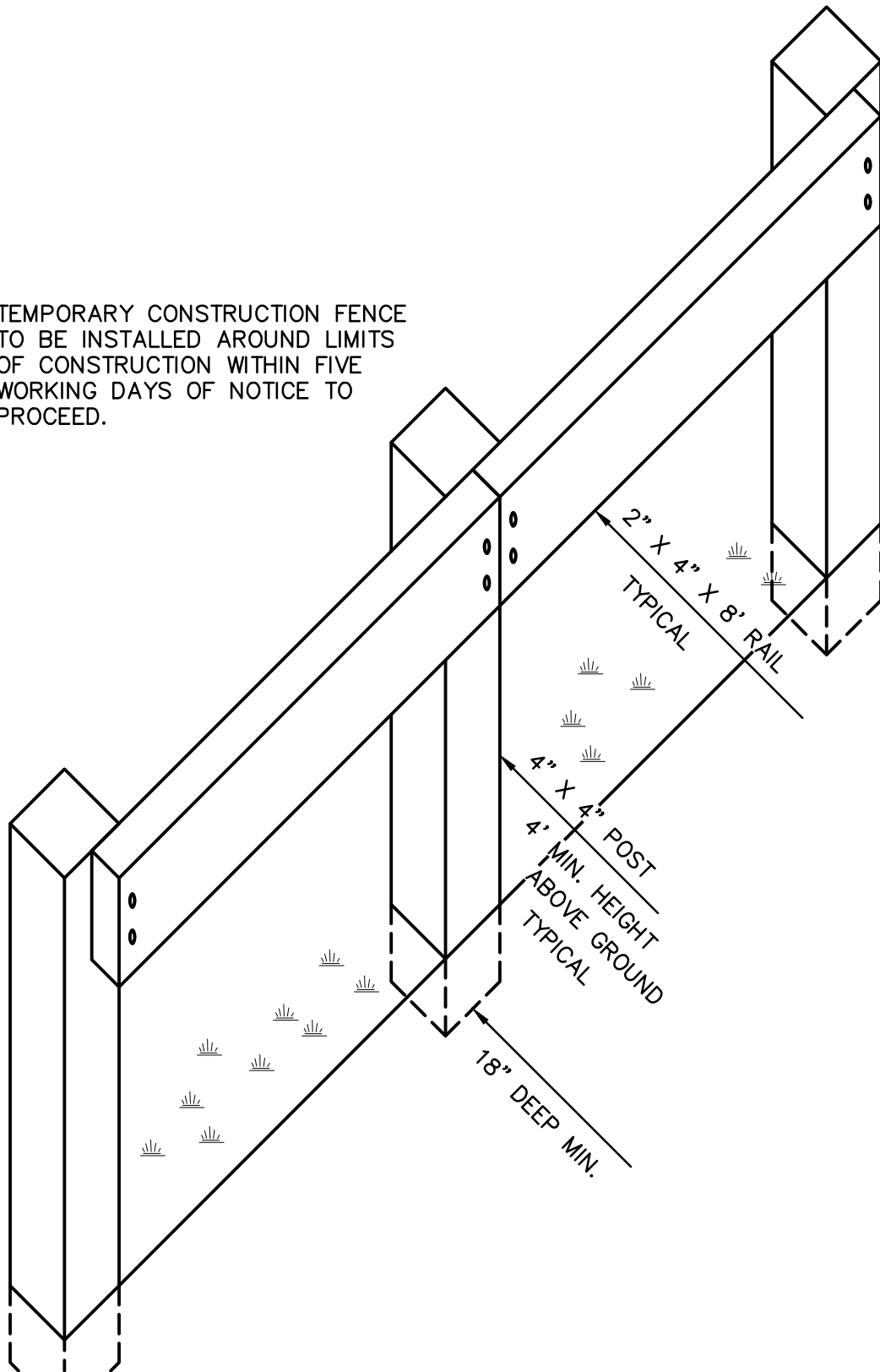
## TEMPORARY HYDRANT PROTECTION FENCE

DETAIL NO:

9003

DATE: 08/29/2000

TEMPORARY CONSTRUCTION FENCE  
TO BE INSTALLED AROUND LIMITS  
OF CONSTRUCTION WITHIN FIVE  
WORKING DAYS OF NOTICE TO  
PROCEED.



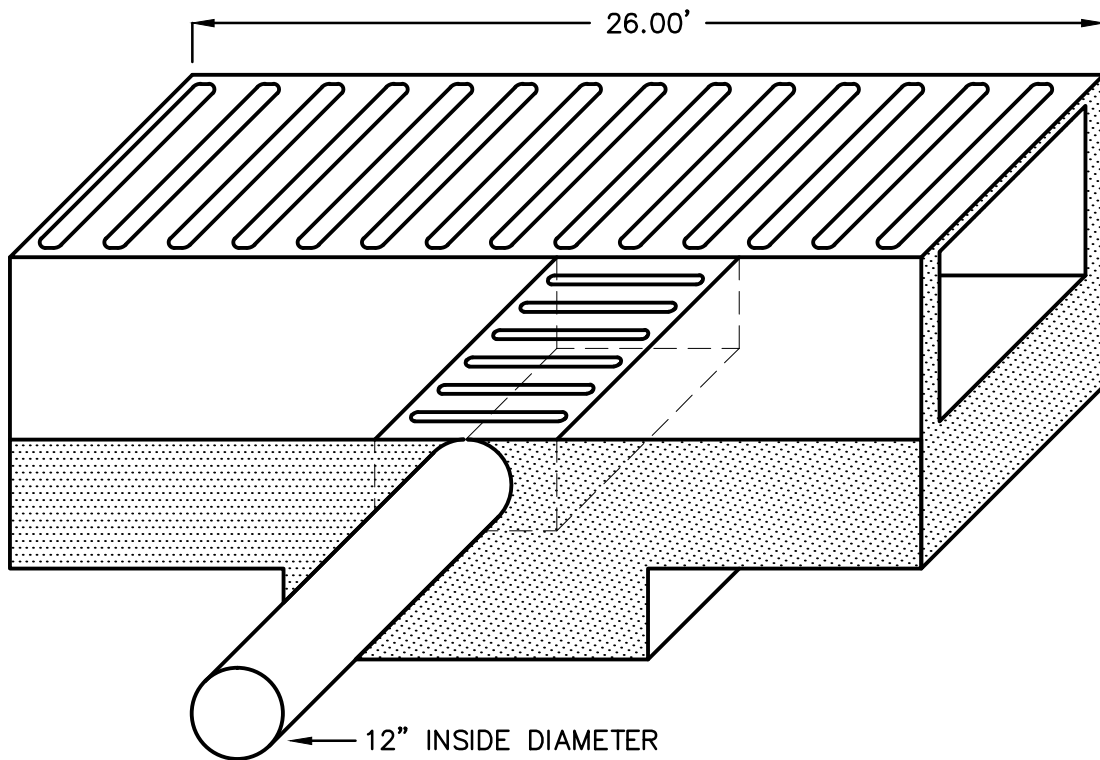
REV. DATE:  
08/29/00

## TEMPORARY CONSTRUCTION FENCE

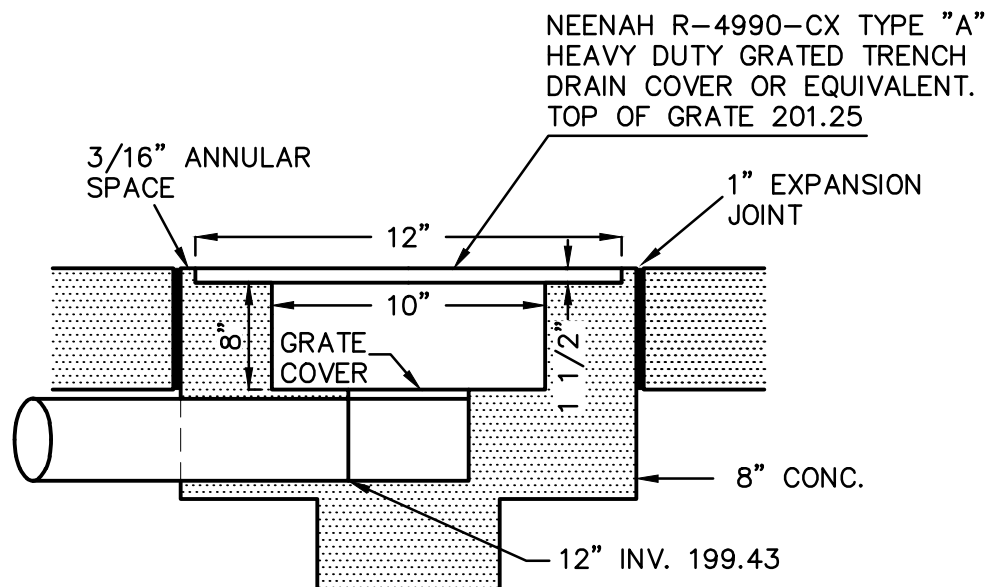
DETAIL NO:

9004

DATE: 08/29/2000



SLOPE TRENCH DRAIN FLOOR AT  
A 1% GRADE TOWARD DRAIN



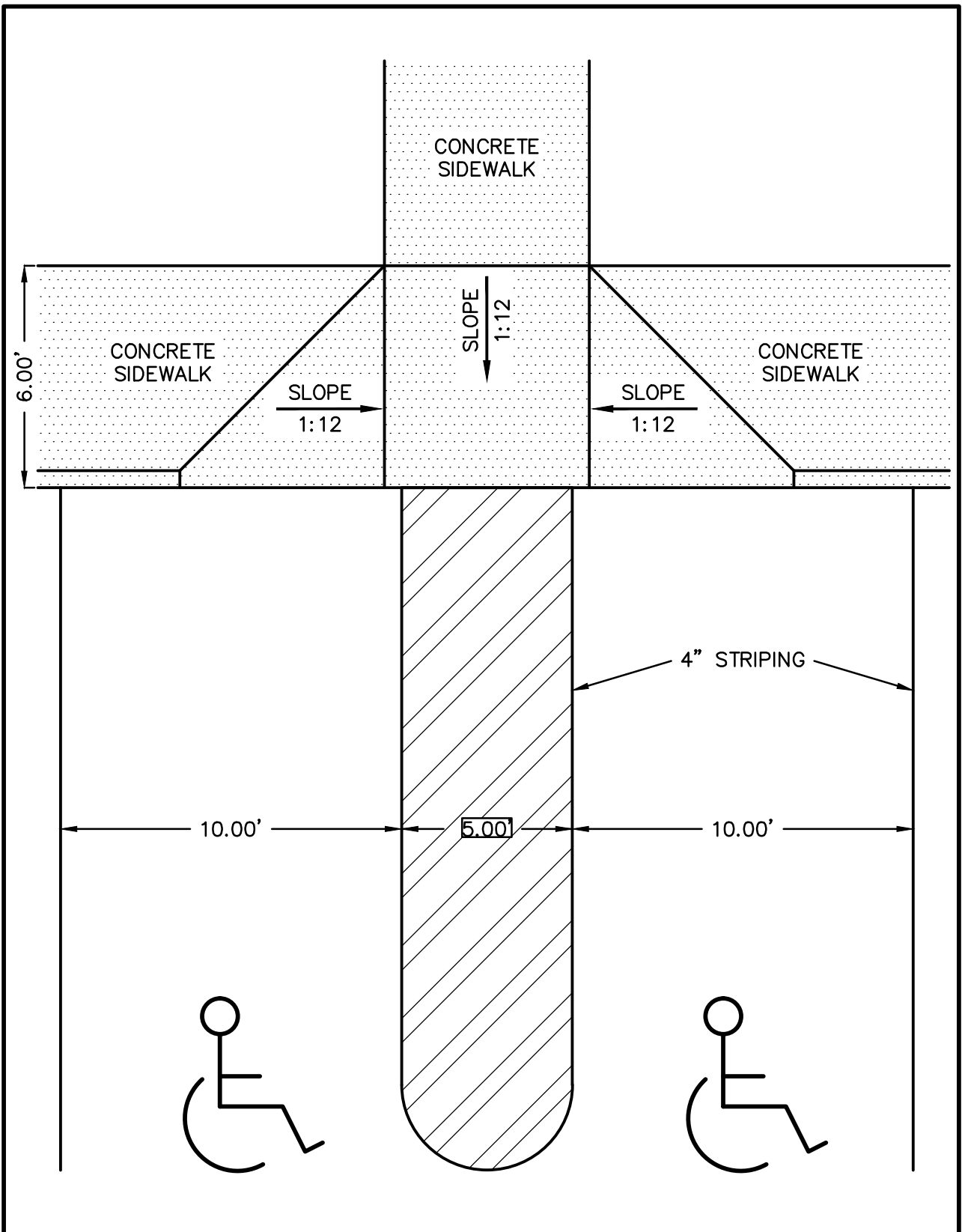
REV. DATE:

## TRENCH DRAIN DETAIL

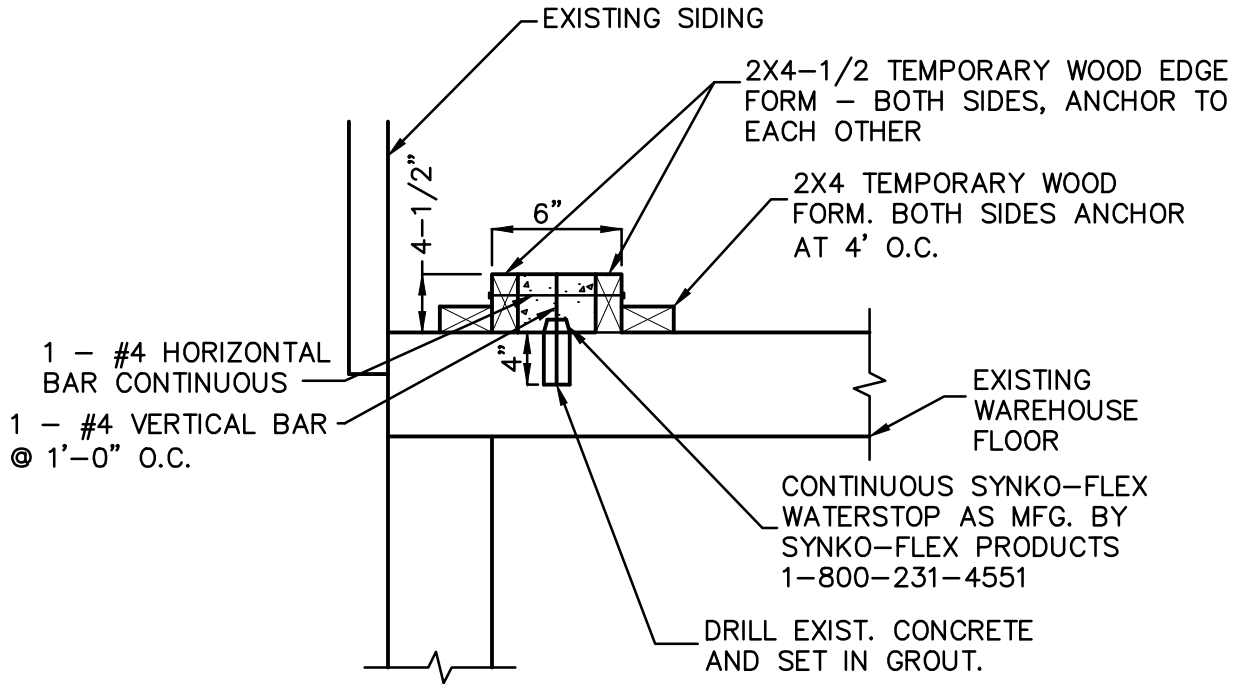
DETAIL NO:

9005

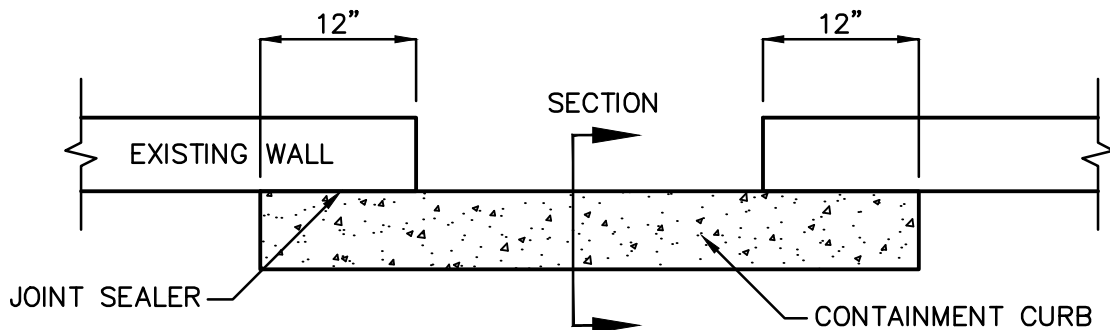
DATE: 08/29/2000



|            |   |  |
|------------|---|--|
| REV. DATE: | TYPICAL HANDICAP PARKING SPACE & CURB CUT | DETAIL NO:<br>9006<br>DATE: 08/26/2004 |
|------------|---|--|



**SECTION**  
N.T.S.



**PLAN**  
N.T.S.

REV. DATE:

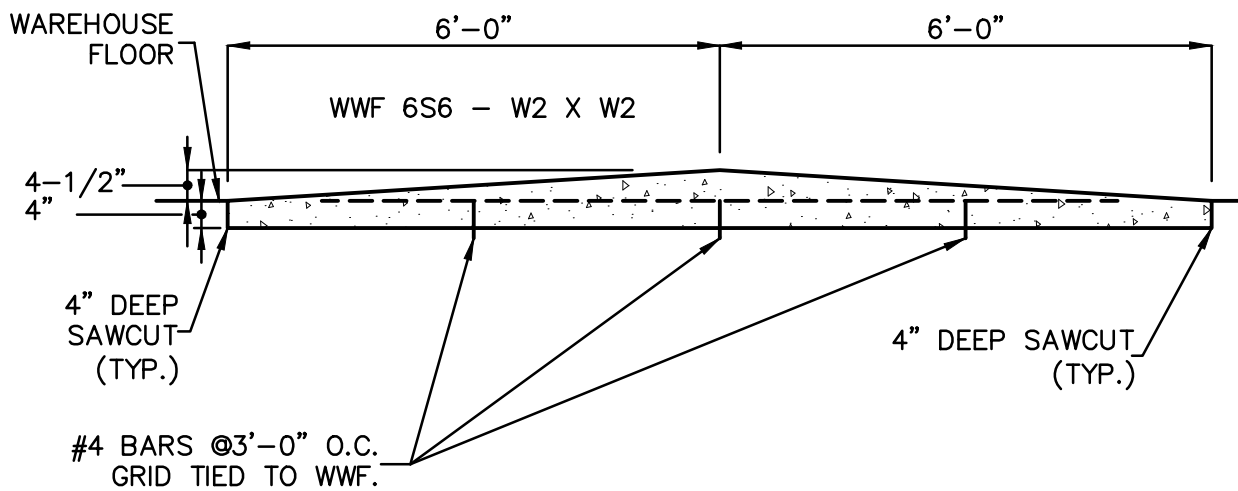
# CONTAINMENT CURB

DETAIL NO:

**9007**

DATE: 08/29/2000





NOTE:  
EXISTING CONCRETE TO BE REMOVED TO A MINIMUM  
DEPTH OF 4" AND BONDING AGENT INSTALLED PRIOR  
TO POURING NEW CONCRETE.

N.T.S.

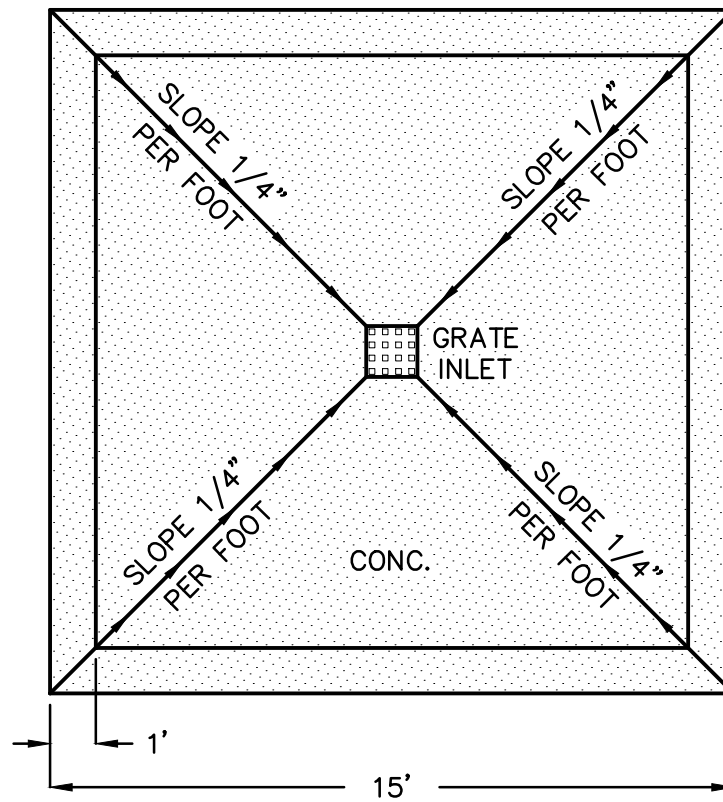
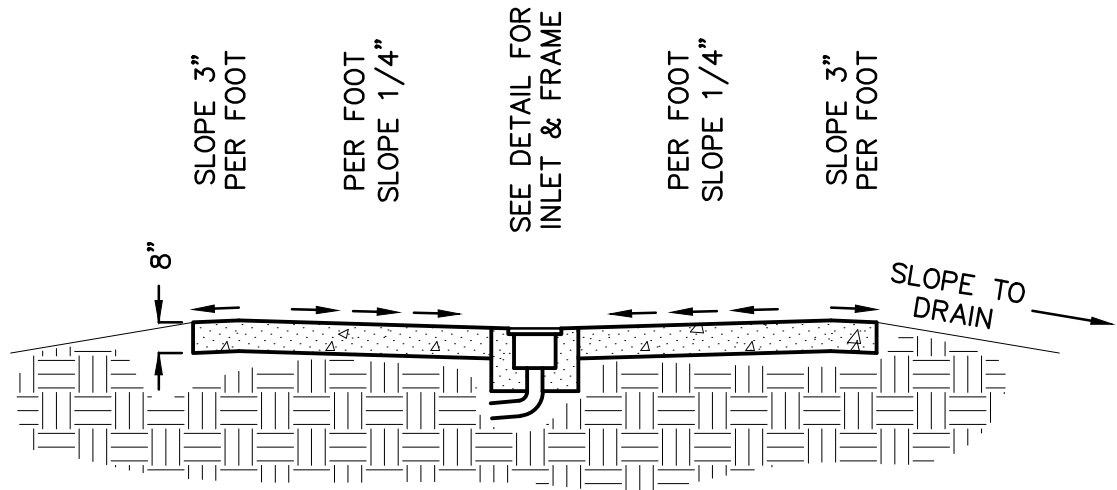
REV. DATE:

FULL RAMP

DETAIL NO:

9008

DATE: 08/29/2000



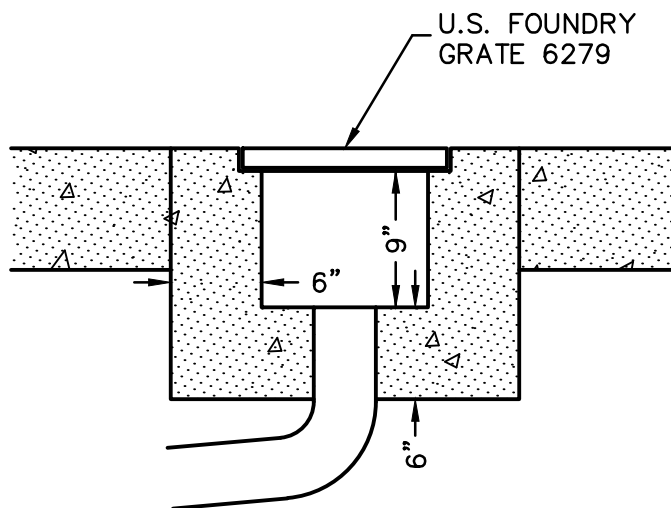
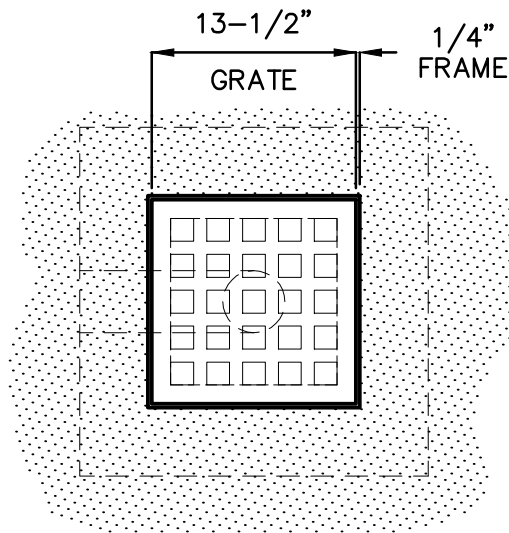
REV. DATE:

GOLF CART  
WASH PAD

DETAIL NO:

9009

DATE: 08/29/2000



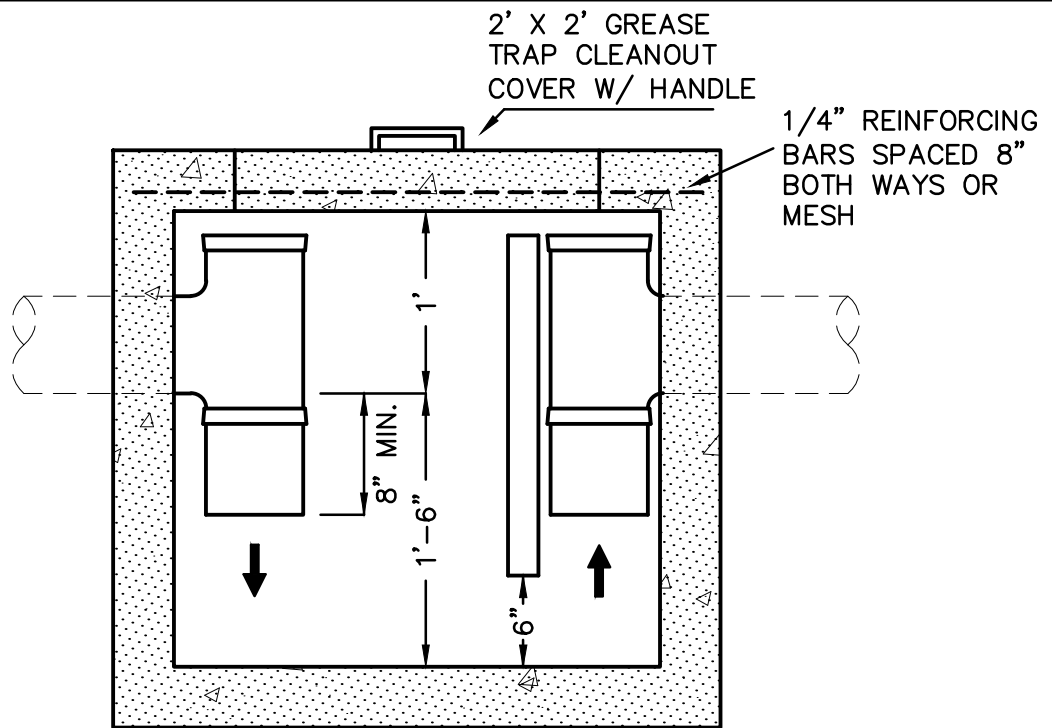
REV. DATE:

GRATE INLET

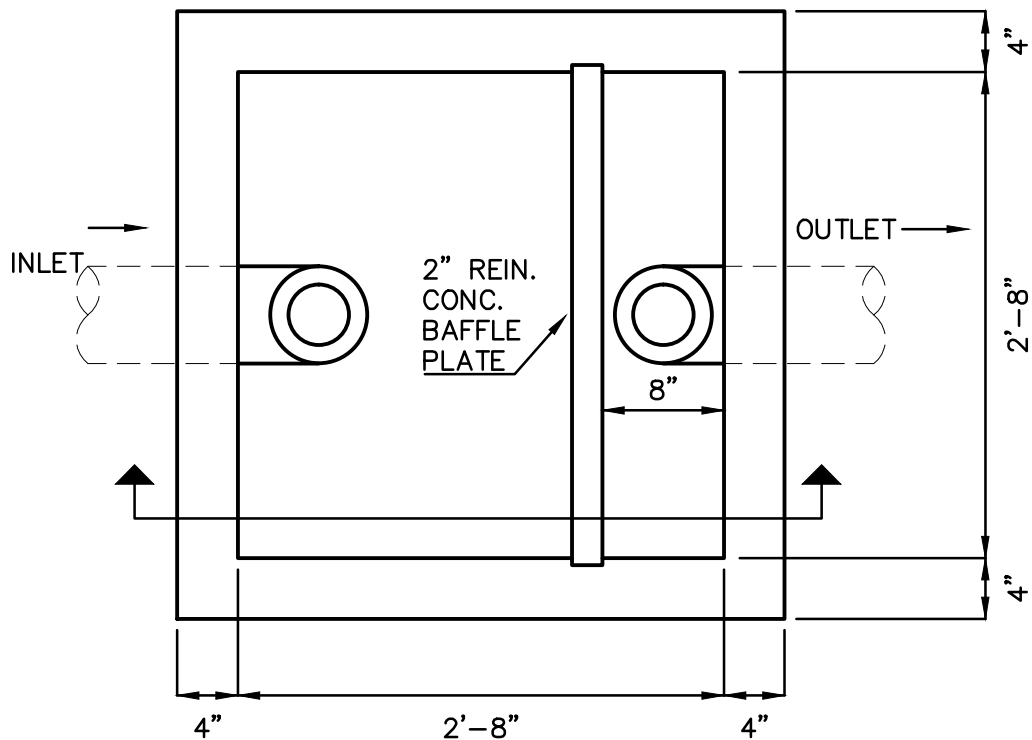
DETAIL NO:

9010

DATE: 08/29/2000



SECTION



PLAN

REV. DATE:

GREASE  
TRAP

DETAIL NO:

9011

DATE: 08/29/2000