

§99.5

PUBLIC AND PRIVATE IMPROVEMENTS CODE

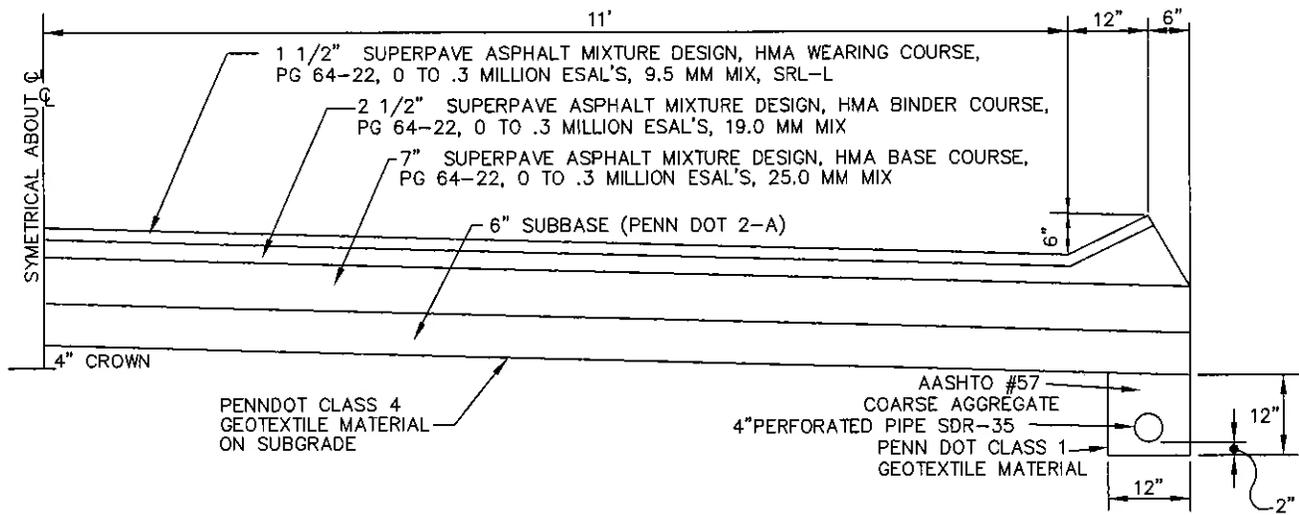
§99.5

ILLUSTRATIONS

99.5. ILLUSTRATIONS

Illustration No.	Description
Figure 99.5.1.2.2.	Typical Section – Collector Street
Figure 99.5.1.2.3a	Typical Grading Details – Local Residential, Commercial and Industrial Streets
Figure 99.5.1.2.3b	Typical Section – Local Residential, Commercial and Industrial Streets
Figure 99.5.1.2.4a	Typical Section – Local Residential Street with Bituminous Wedge Curb and Bituminous Concrete Base Course [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.1.2.4b	Typical Section – Local Residential Street with Bituminous Wedge Curb and Crushed Aggregate Base Course [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.1.2.4c	Typical Section – Local Residential Street with Concrete Curb and Bituminous Concrete Base Course [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.1.2.4d	Typical Section – Local Residential Street with Concrete Curb and Crushed Aggregate Base Course [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.1.2.5a.	Trench Repaving for Bituminous Pavement – Temporary Restoration [Added 9-3-13 by Ord. No. 2100]
Figure 99.5.1.2.5b.	Trench Repaving for Bituminous Pavement – Permanent Restoration [Added 9-3-13 by Ord. No. 2100]
Figure 99.5.1.2.5c.	Bituminous Pavement Restoration – Longitudinal Openings and Transverse Openings [Added 9-3-13 by Ord. No. 2100]
Figure 99.5.1.2.5.d.	Bituminous Pavement Restoration – Specifications for the 1-1/2” Pavement Wearing Course [Added 9-3-13 by Ord. No. 2100]
Figure 99.5.1.2.6.	Special Underdrains
Figure 99.5.1.3.2.7.	Clear Sight Triangle at an Intersection or Driveway
Figure 99.5.1.3.2.7a	Formula Sight Distance Table-Vehicle Traveling Upgrade
Figure 99.5.1.3.2.7b	Formula Sight Distance Table-Vehicle Traveling Downgrade
Figure 99.5.1.3.3.1.	Cul-de-sac Without Island
Figure 99.5.1.3.3.2a	Cul-de-sac With Island [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.1.3.3.2b	Cul-de-sac With Island, Planting Requirements to Allow Emergency, Maintenance & Delivery Vehicles
Figure 99.5.1.3.3.3.	Multi-phase Development Temporary Hammerhead Turnaround
Figure 99.5.2.2a	4’ Storm Inlet Without Hood
Figure 99.5.2.2b	Basket Type Storm Inlet
Figure 99.5.2.2c	Alternate Basket Type Storm Inlet
Figure 99.5.2.3a	Pre-Cast Concrete Manhole for Pipes Under 48” in Diameter [Amended 4-7-08 by Ord. No. 1996]

Illustration No.	Description
Figure 99.5.2.3b	Pre-Cast Concrete Manhole for Pipes Over 48" in Diameter [Amended 4-7-08 by Ord. No. 1996; Amended 9-3-13 by Ord. No. 2100]
Figure 99.5.2.3c	Brick Manhole Details for Pipes under 48" in Diameter
Figure 99.5.2.3d	Shallow Brick Manhole
Figure 99.5.2.6.	Cradles and Reinforcements for Sewers
Figure 99.5.2.7.	Endwall Details
Figure 99.5.2.8.	Concrete Encasement and Anchors for Sewers
Figure 99.5.2.9.	Connection for Drop Manhole
Figure 99.5.2.9a	Lateral Maintenance Detail (Outside of Cartway)
Figure 99.5.2.9b	Lateral Maintenance Detail (Outside Cartway opposite side)
Figure 99.5.4.1a	Sidewalk Detail – Local Residential Streets [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.4.1b	Sidewalk Detail – Local Commercial and Industrial Streets [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.5.6.1.	Minimum Use Driveway [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.5.6.2.	Low Volume Driveway
Figure 99.5.5.6.3.	Medium Volume Driveway
Figure 99.5.5.6.3a	Minimum Use Driveway Grade Requirements Within the Right-of-Way
Figure 99.5.5.6.3b	Low & Medium Volume Driveway Grade Requirements Within the Right-of-Way
Figure 99.5.5.6.3c	Minimum Use Driveway Requirements for Concrete and Wedge Curbed Street With and Without Grass Strip Within the Right-of-Way [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.5.6.3d	Minimum Use Driveway Requirements for High Volume Driveway
Figure 99.5.5.6.3e	Minimum Use Driveway Requirement for Fuel Station Driveway along Undivided Roadway
Figure 99.5.5.6.3f	Minimum Use Driveway Requirements for Fuel Station along Divided Highway
Figure 99.5.6.2.2.1.	Concrete Deck Curb [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.6.2.2.2.	Standard Concrete Curb [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.6.2.2.3.	Wedge Curb with Wheelstop [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.6.2.3.	Reinforced Concrete Wheelstops [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.6.2.4.	Bumper Stop [Amended 4-7-08 by Ord. No. 1996]
Figure 99.5.6.2.5.	Mailbox Standard



NOTE: SUB-BASE FABRIC IF NEEDED MUST BE INSTALLED IN REFERENCE TO THE 4" UNDERDRAIN- PENNDOT #2B LIMESTONE OR GRAVEL. NO SLAG WILL BE PERMITTED

ADOPTED BY THE BOARD: DECEMBER 4, 2006

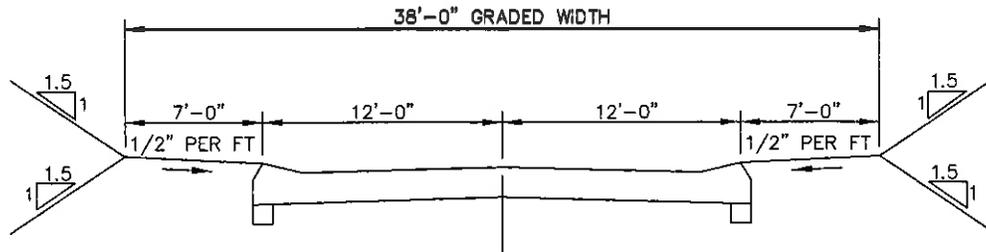
REVISIONS:
 MARCH 10, 2005
 NOVEMBER 21, 2005
 MARCH 1, 2006

**TYPICAL SECTION
 COLLECTOR STREET**

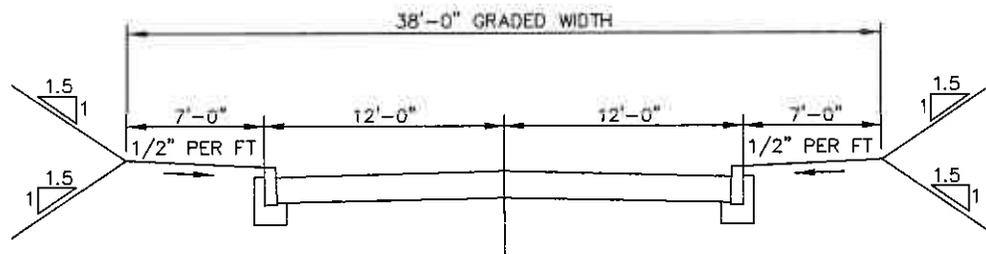
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.2

Date: JUNE 23, 2002
 Job No. C-8087-0001



TYPICAL GRADING DETAIL
LOCAL RESIDENTIAL STREETS



TYPICAL GRADING DETAIL
LOCAL COMMERCIAL & INDUSTRIAL STREETS

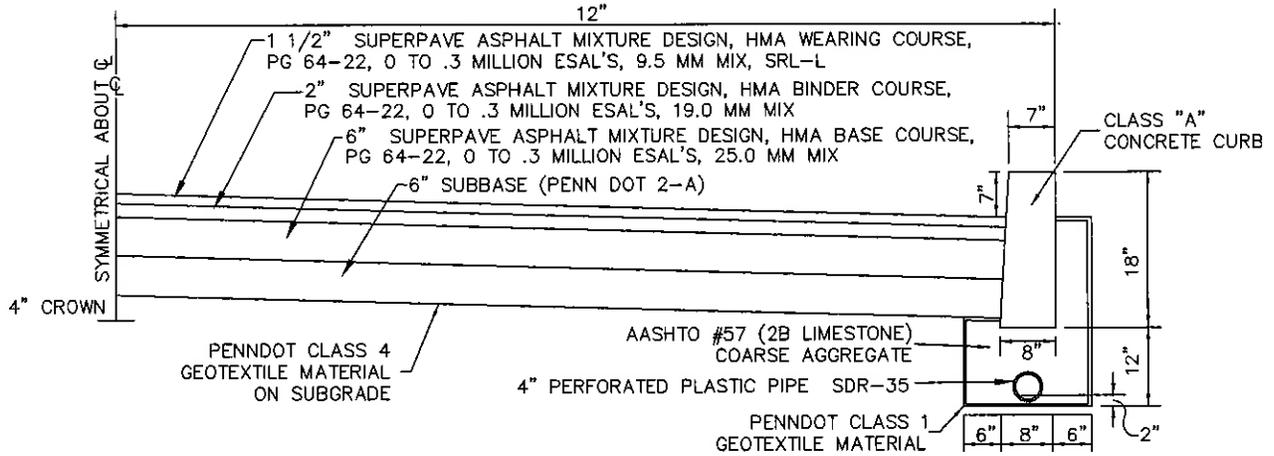
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

TYPICAL GRADING DETAILS
LOCAL RESIDENTIAL, COMMERCIAL & INDUSTRIAL STREETS
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.3a

Date: JUNE 23, 2002
 Job No. C-8087-0001



NOTE: SUB-BASE FABRIC IF NEEDED MUST BE INSTALLED

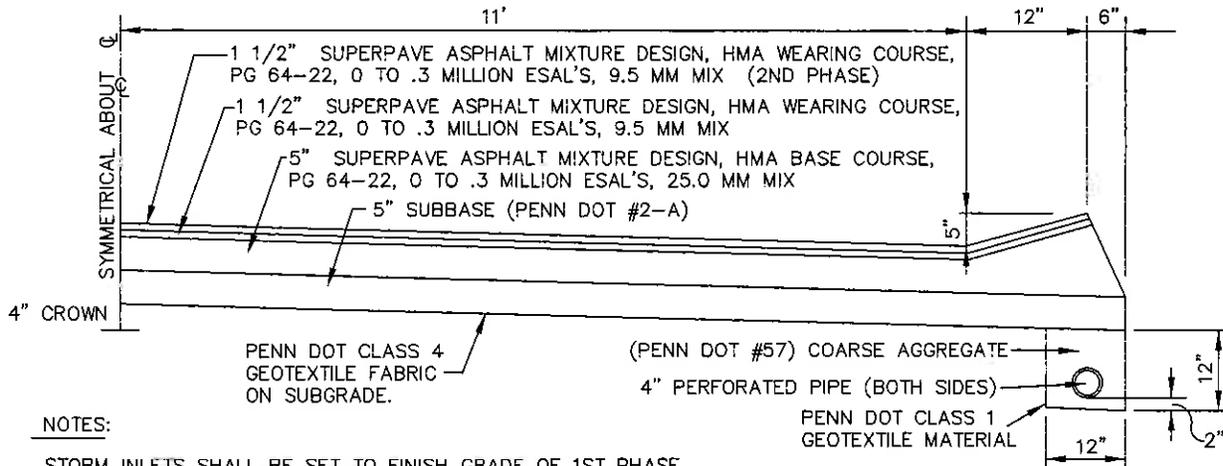
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
MARCH 10, 2005
MARCH 1, 2006

TYPICAL SECTION
LOCAL RESIDENTIAL, COMMERCIAL & INDUSTRIAL STREETS
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.3b

Date: JUNE 23, 2002
Job No. C-8087-0001

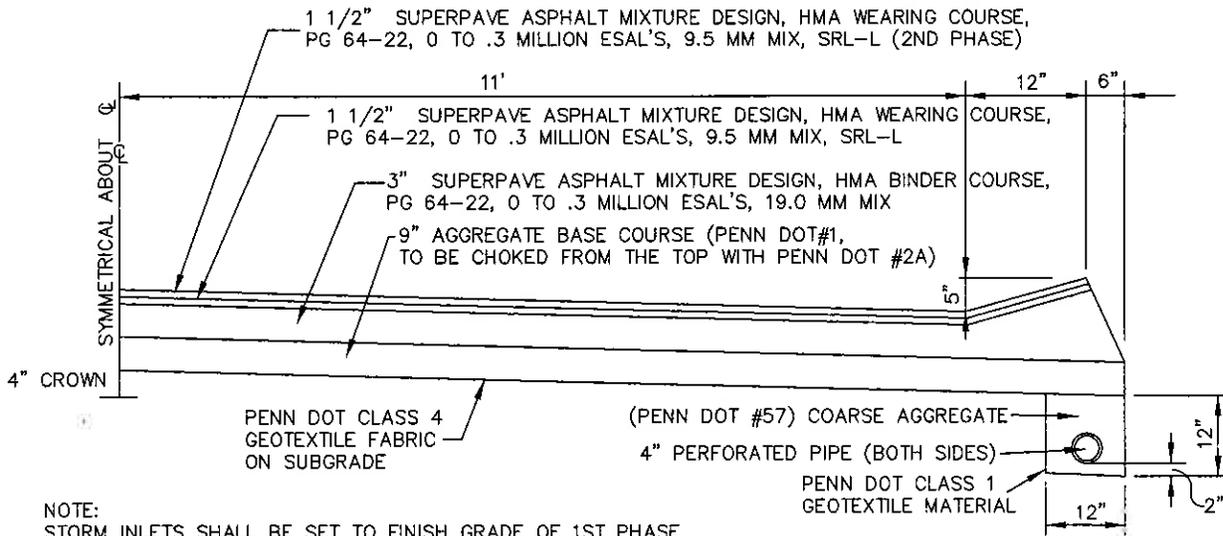


NOTES:

STORM INLETS SHALL BE SET TO FINISH GRADE OF 1ST PHASE PAVING.
 PRIOR TO PLACING OF 2ND PHASE PAVING. RISERS WILL BE PROVIDED FOR ALL MANHOLES AND INLETS. THE SECOND PHASE PAVING SHALL BE PLACED AND TAPERED INTO STORM INLETS.
 THE CURB WIDTH MAY BE CHANGED BY THE TOWNSHIP
 SUB-BASE FABRIC MAY BE REQUIRED BY THE TOWNSHIP

TYPICAL LOCAL RESIDENTIAL STREET SECTION WITH BITUMINOUS WEDGE CURB AND BITUMINOUS CONCRETE BASE COURSE.

FIGURE 99.5.1.2.4a



NOTE:

STORM INLETS SHALL BE SET TO FINISH GRADE OF 1ST PHASE PAVING.
 PRIOR TO PLACING OF 2ND PHASE PAVING. 36" WIDE KEYWAYS SHALL BE CUT AROUND STORM INLETS. THE SECOND PHASE PAVING SHALL BE PLACED AND TAPERED INTO STORM INLETS.
 THE CURB WIDTH MAY BE CHANGED BY THE TOWNSHIP
 SUB-BASE FABRIC MAY BE REQUIRED BY THE TOWNSHIP

TYPICAL LOCAL RESIDENTIAL STREET SECTION WITH BITUMINOUS WEDGE CURB AND CRUSHED AGGREGATE BASE COURSE.

FIGURE 99.5.1.2.4b

ADOPTED BY THE BOARD: DECEMBER 4, 2006

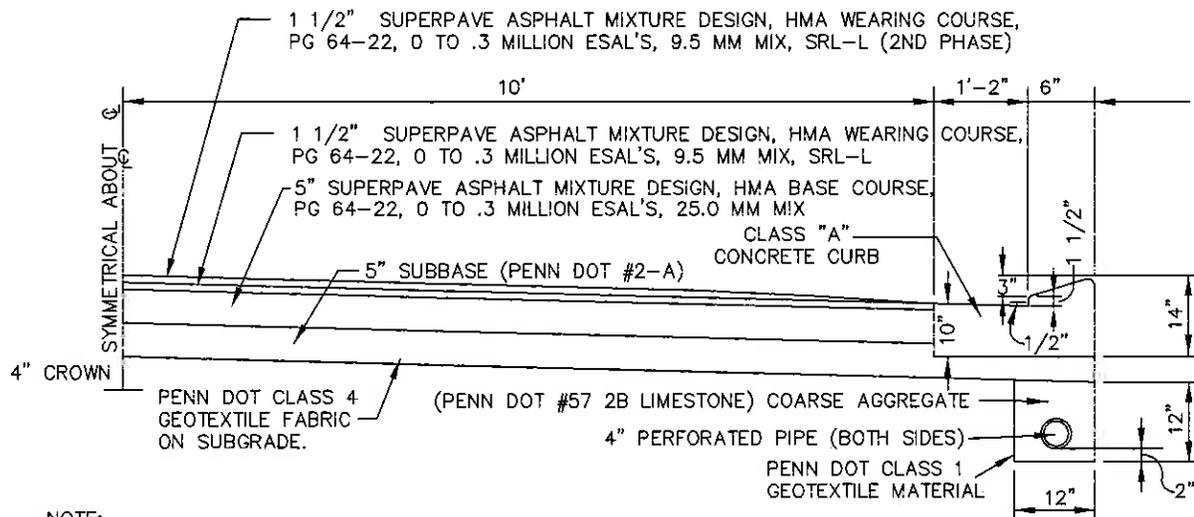
REVISIONS:
 MARCH 16, 2005
 NOVEMBER 29, 2005
 MARCH 1, 2006
 MARCH 17, 2008

**TYPICAL SECTION
 LOCAL RESIDENTIAL STREETS**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.4a
 FIG. 99.5.1.2.4b

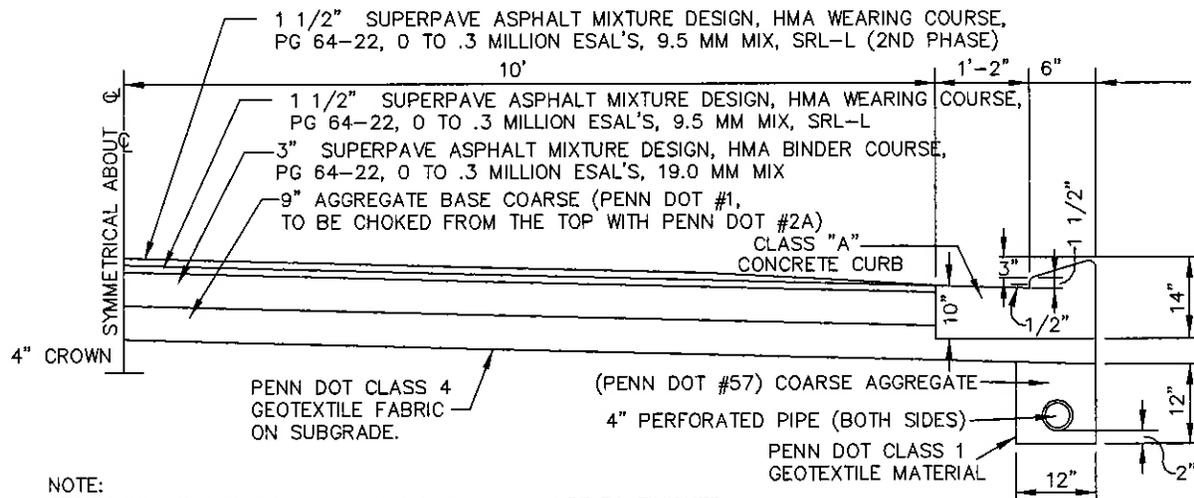
Date: JUNE 23, 2002
 Job No. C-8087-0001



NOTE:
 STORM INLETS AND CONCRETE CURBS SHALL BE SET TO FINISHED GRADE OF 1ST PHASE PAVING.
 PRIOR TO PLACING OF 2ND PHASE PAVING. 36" WIDE KEYWAYS SHALL BE CUT AROUND STORM INLETS AND ALONG CONCRETE CURBS. THE SECOND PHASE PAVING SHALL THEN BE PLACED AND TAPERED INTO STORM INLETS AND CONCRETE CURBS.
 THE CURB WIDTH MAY BE CHANGED BY THE TWP.
 SUB-BASE FABRIC MAY BE REQUIRED BY THE TWP.

TYPICAL LOCAL RESIDENTIAL STREET SECTION WITH CONCRETE CURB AND BITUMINOUS CONCRETE BASE COURSE.

FIGURE 99.5.1.2.4c



NOTE:
 STORM INLETS AND CONCRETE CURBS SHALL BE SET TO FINISHED GRADE OF 1ST PHASE PAVING.
 PRIOR TO PLACING OF 2ND PHASE PAVING. 36" WIDE KEYWAYS SHALL BE CUT AROUND STORM INLETS AND ALONG CONCRETE CURBS. THE SECOND PHASE PAVING SHALL THEN BE PLACED AND TAPERED INTO STORM INLETS AND CONCRETE CURBS.
 THE CURB WIDTH MAY BE CHANGED BY THE TWP.
 SUB-BASE FABRIC MAY BE REQUIRED BY THE TWP.

TYPICAL LOCAL RESIDENTIAL STREET SECTION WITH CONCRETE CURB AND CRUSHED AGGREGATE BASE COURSE.

FIGURE 99.5.1.2.4d

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
 MARCH 16, 2005
 NOVEMBER 29, 2005
 MARCH 1, 2006
 MARCH 17, 2008

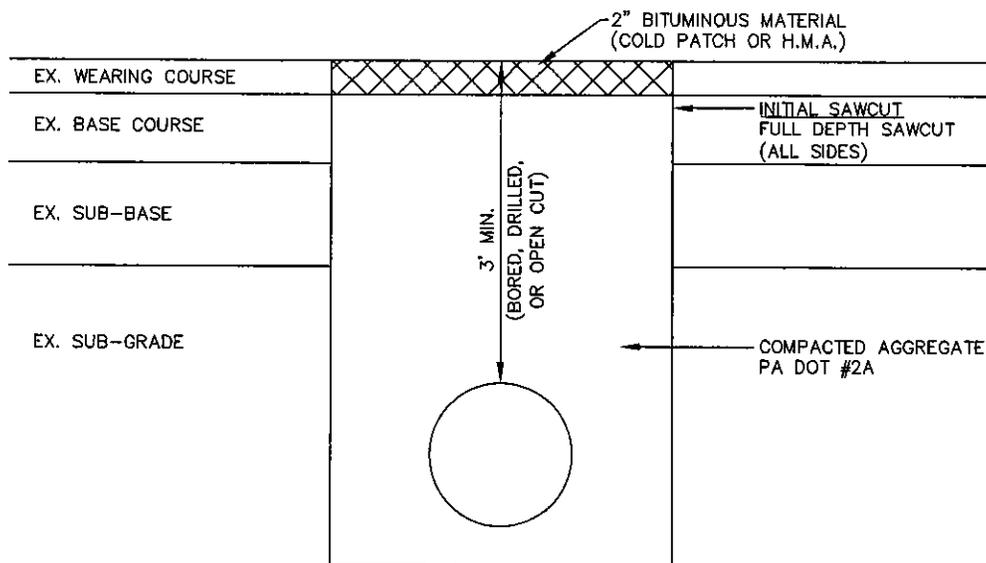
TYPICAL SECTION LOCAL RESIDENTIAL STREETS

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.4c
 FIG. 99.5.1.2.4d

Date: JUNE 23, 2002
 Job No. C-8087-0001

TEMPORARY RESTORATION



1. NO OPENING MAY BE MADE FOR GREATER THAN 250 LINEAR FEET AT ONE TIME, UNLESS AUTHORIZED BY THE PERMIT.
2. TEMPORARY RESTORATION SHALL BE COMPLETED BEFORE TRAFFIC IS ALLOWED BACK ONTO THE DISTURBED AREA AND SUCH TEMPORARY RESTORATION SHALL BE MADE WITHIN 24 HOURS OF BACKFILLING TO GRADE.
3. BETWEEN APRIL 1 AND OCTOBER 31, PERMANENT REPAIRS MUST BE MADE WITHIN 28 DAYS OF COMPLETION OF THE STREET OPENING. OTHERWISE, TEMPORARY PAVEMENT MAY BE KEPT IN PLACE FOR UP TO 6 MONTHS OR AS SPECIFIED IN THE PERMIT IF PROPERLY MAINTAINED BY THE APPLICANT.

REVISIONS:
 MARCH 20, 2006
 MARCH 17, 2008
 JUNE 11, 2013

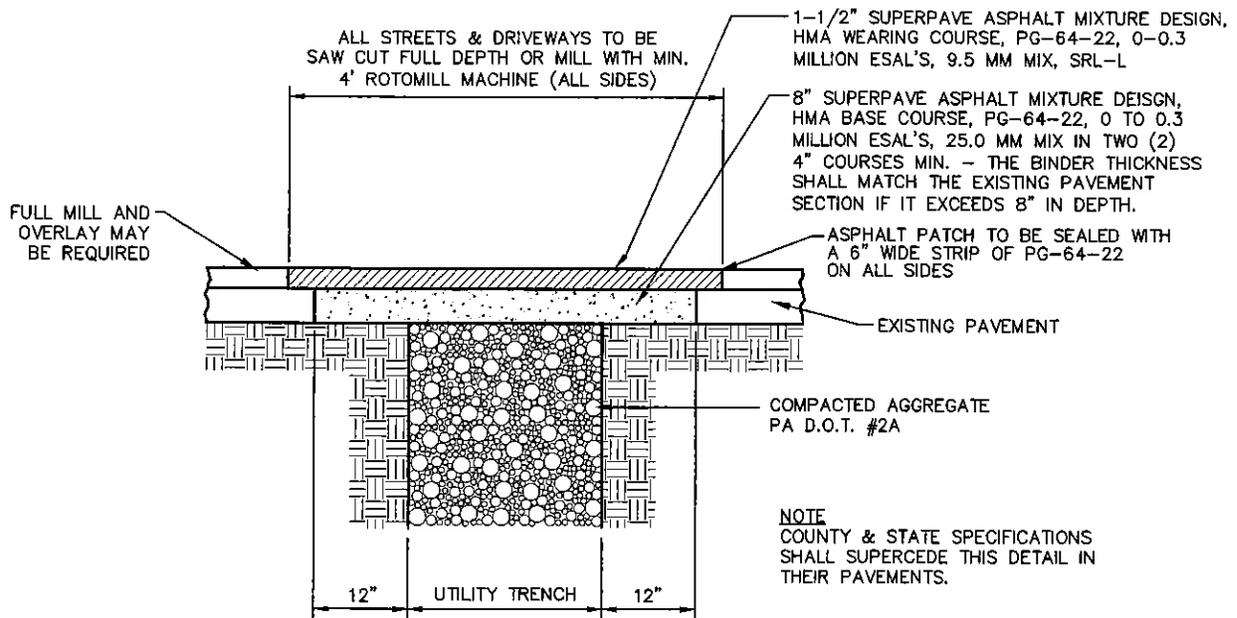
TRENCH REPAVING FOR BITUMINOUS PAVING

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.5a

Date: AUG 30, 2013
 Job No. C-8014-0038

PERMANENT RESTORATION



1. TRENCH REPAVING REQUIREMENTS FOR OTHER THAN BITUMINOUS PAVING WILL BE DETERMINED BY THE TOWNSHIP ENGINEER OR THEIR DESIGNATED REPRESENTATIVE.
2. COUNTY AND STATE SPECIFICATIONS SHALL SUPERCEDE THESE DETAILS FOR RESTORATION IN THEIR PAVEMENTS.
3. ALL MATERIALS USED SHALL CONFORM WITH THE SPECIFICATIONS IN THE CURRENT EDITION OF PENNDOT'S PUBLICATION 408.

REVISIONS:
MARCH 20, 2006
MARCH 17, 2008
JUNE 11, 2013

TRENCH REPAVING FOR BITUMINOUS PAVING

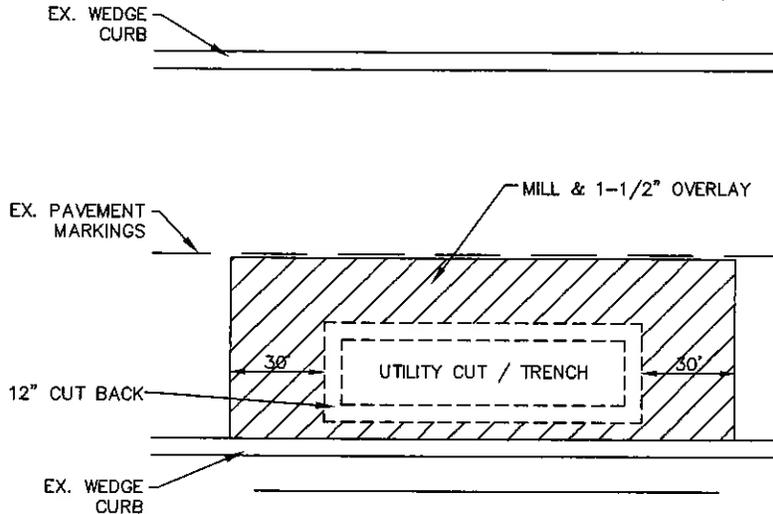
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.5b

Date: AUG 30, 2013
Job No. C-8014-0038

LONGITUDINAL OPENINGS

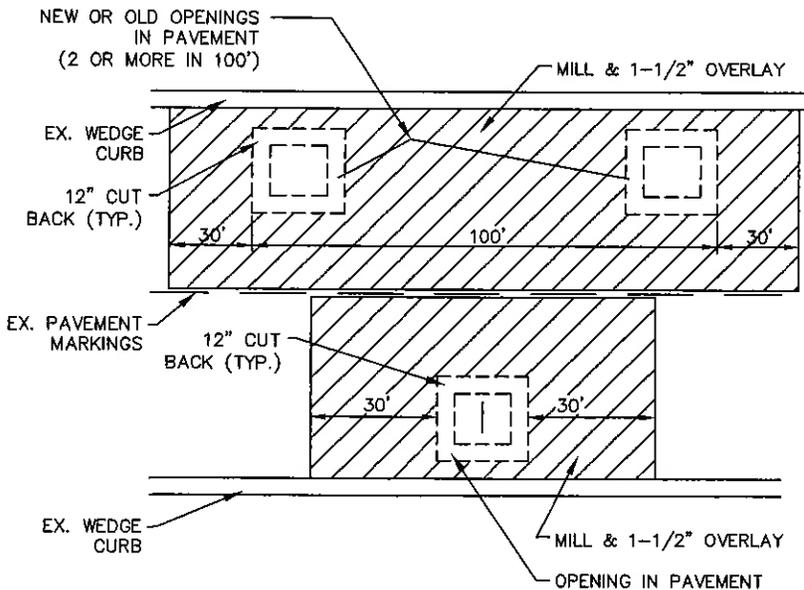
(TYPICALLY FOR MAIN LINE INSTALLATION OR SECTIONAL REPLACEMENT)



1. REGARDLESS OF PAVEMENT AGE, MILL & 1-1/2" OVERLAY REQUIRED FOR A DISTANCE OF 30' ON EACH SIDE OF THE EDGE OF THE OPENING IN THE SAME TRAFFIC LANE AS THE OPENING.
2. ALL PAVEMENT MARKINGS THAT ARE COVERED OR DESTROYED SHALL BE REPLACED IN THEIR FORMER LOCATION.
3. ALL MATERIALS USED & INSTALLATION PROCEDURES SHALL CONFORM TO PA DOT 408 MOST RECENT EDITION.

TRANSVERSE OPENINGS

(TYPICALLY FOR SPOT REPAIRS OR SERVICE CONNECTIONS)



1. REGARDLESS OF PAVEMENT AGE, EACH OPENING SHALL BE MILLED & OVERLAID (1-1/2" MIN. DEPTH) FOR A DISTANCE OF 30 FEET ON EACH SIDE OF THE EDGE OF THE OPENING IN THE SAME TRAFFIC LANE AS THE OPENINGS.
2. REGARDLESS OF PAVEMENT AGE, WHEN TWO OR MORE OPENINGS (NEW OR OLD) HAVE BEEN MADE WITHIN 100 FEET IN THE SAME LANE, THE ENTIRE LANE SHALL BE MILLED AND OVERLAID (1-1/2" MIN. DEPTH) FOR THE LENGTH OF ROADWAY BETWEEN OPENINGS AND FOR A DISTANCE OF 30' ON EACH SIDE OF THE EDGE OF THE OUTER OPENINGS IN THE SAME TRAFFIC LANE AS THE OPENING.
3. FOR OPENINGS OR PATCHES WITHIN FOUR (4) FEET OF THE STREET CENTERLINE, THE 1-1/2" MILL & OVERLAY MUST EXTEND THE ENTIRE STREET WIDTH.
4. ALL PAVEMENT MARKINGS THAT ARE COVERED OR DESTROYED SHALL BE REPLACED IN THEIR FORMER LOCATION.
5. ALL MATERIALS USED & INSTALLATION PROCEDURES SHALL CONFORM TO PA DOT 408 MOST RECENT EDITION.

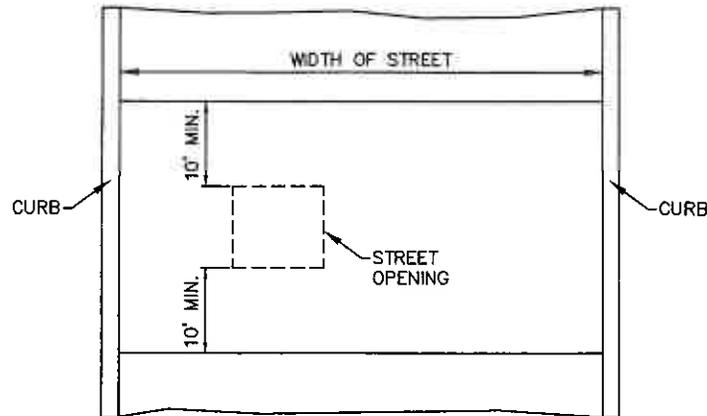
REVISIONS:
 MARCH 20, 2006
 MARCH 17, 2008
 JUNE 11, 2013
 AUG 30, 2013

BITUMINOUS PAVEMENT RESTORATION

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.5c

Date: AUG 30, 2013
 Job No. C-8014-0038



**PLAN VIEW –
1-1/2" PAVEMENT WEARING COURSE**

SPECIFICATIONS FOR THE 1-1/2" PAVEMENT WEARING COURSE

1. FOR STREETS GREATER THAN FIVE YEARS OLD, THE STREET SHALL BE MILLED TO A DEPTH OF 1-1/2" HALF WIDTH OF THE STREET IN ACCORDANCE WITH THE DETAIL ABOVE. IF BITUMINOUS CURBS EXIST, THE CURB SHALL BE MILLED AND REPLACED WITH 9.5 MM FINE GRADED SUPERPAVE MATERIAL DURING THE INSTALLATION OF THE FINAL PAVEMENT SURFACE.
2. FOR PATCHES WITHIN 4' OF THE CENTER LINE OF THE STREET, THE STREET SHALL BE MILLED TO A DEPTH OF 1-1/2" FULL WIDTH OF THE PAVEMENT WIDTH OF THE STREET IN ACCORDANCE WITH THE DETAIL ABOVE. IF A BITUMINOUS CURB EXISTS, THE CURB SHALL BE MILLED AND REPLACED WITH A 9.5 MM FINE GRADED SUPERPAVE MATERIAL DURING THE INSTALLATION OF THE FINAL PAVEMENT SURFACE.
3. THE EXISTING PAVEMENT SHALL HAVE A TACK COAT APPLIED PRIOR TO THE INSTALLATION OF THE WEARING COURSE.
4. 1-1/2" OF 9.5 MM FINE GRADED SUPERPAVE WEARING MATERIAL SHALL BE INSTALLED OVER THE EXISTING PAVING WHICH HAS BEEN MILLED.
5. IF THE FINISHED PATCHES ARE SPACED LESS THAN 100 FEET APART, THE AREA BETWEEN THE PATCHES MUST BE MILLED IN ACCORDANCE WITHIN THE SPECIFICATIONS ABOVE.
6. THE CURBS, EDGES OF DRIVEWAYS, COLD PAVEMENT JOINTS, GAS VALVES, WATER VALVES, MANHOLES AND INLETS SHALL BE SEALED WITH A 6" WIDE LAYER OF PG-64-22 EMULSION.
7. UPON THE ACCEPTANCE BY THE TOWNSHIP, THE COMPANY THAT MADE THE ORIGINAL STREET OPENING SHALL POST A 2 YEAR MAINTENANCE BOND FOR 100% OF THE BITUMINOUS PAVEMENT COST.
8. A REPRESENTATIVE FROM THE UTILITY COMPANY AND THEIR CONTRACTOR SHALL SCHEDULE A MEETING WITH THE TOWNSHIP'S REPRESENTATIVE PRIOR TO COMPLETING THE RESTORATION.

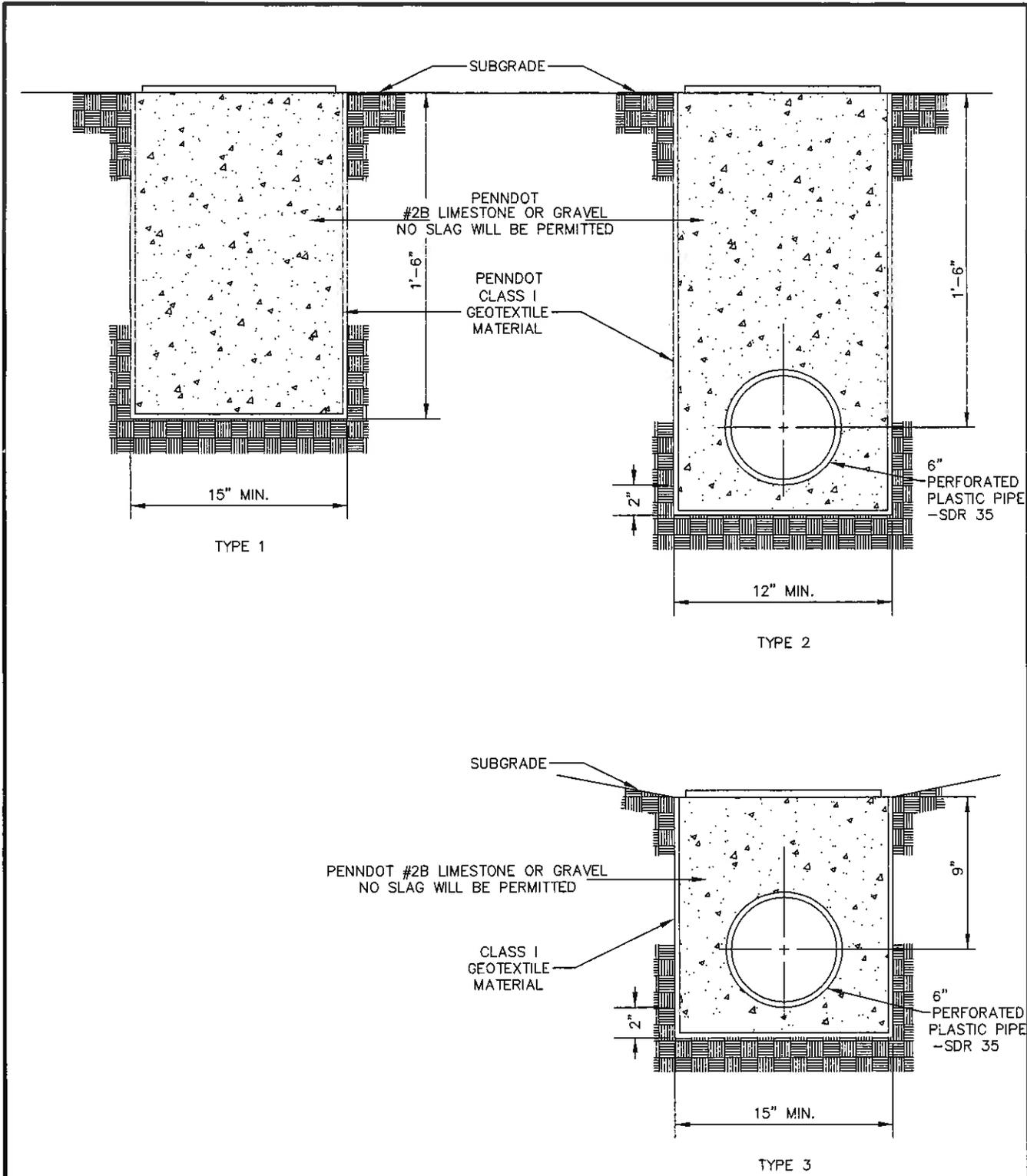
REVISIONS:
MARCH 20, 2006
MARCH 17, 2008
JUNE 11, 2013

**BITUMINOUS
PAVEMENT RESTORATION**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.2.5d

Date: AUG 30, 2013
Job No. C-8014-0038



ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

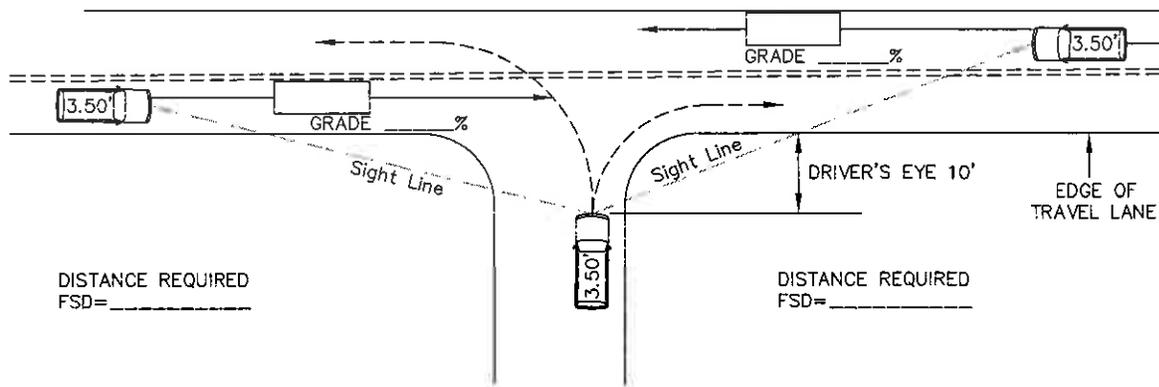
MARCH 10, 2005
MARCH 1, 2006

SPECIAL UNDERDRAINS

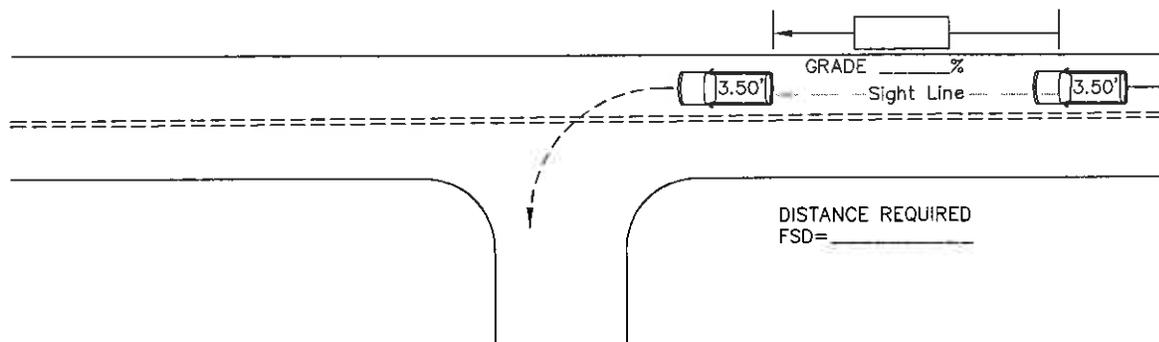
UPPER ST. TWP. CLAIR STANDARD DETAILS

FIG. 99.5.1.2.6

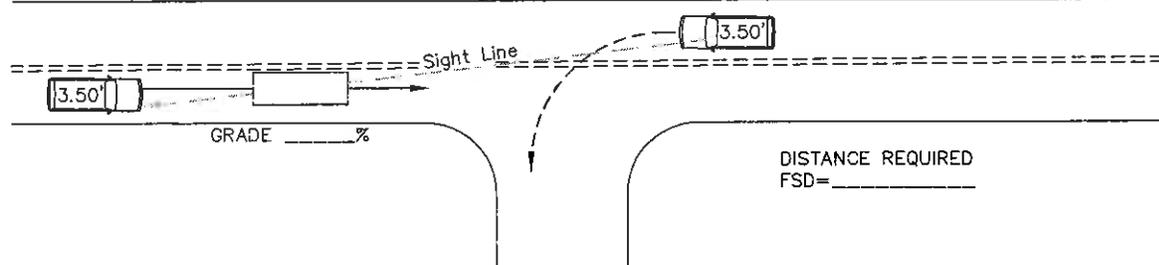
Date: JUNE 23, 2002
Job No. C-8087-0001



THE MAXIMUM LENGTH OF ROADWAY ALONG WHICH A DRIVER AT A DRIVEWAY LOCATION CAN CONTINUOUSLY SEE ANOTHER VEHICLE APPROACHING ON THE ROADWAY.



THE MAXIMUM LENGTH OF ROADWAY ALONG WHICH A DRIVER ON THE ROADWAY CAN CONTINUOUSLY SEE THE REAR OF A VEHICLE WHICH IS LOCATED IN THE DRIVER'S TRAVEL LANE AND WHICH IS POSITIONED TO MAKE A LEFT TURN INTO A DRIVEWAY.



THE MAXIMUM LENGTH OF ROADWAY ALONG WHICH A DRIVER OF A VEHICLE INTENDING TO MAKE A LEFT TURN INTO A DRIVEWAY CAN CONTINUOUSLY SEE A VEHICLE APPROACHING FROM THE OPPOSITE DIRECTION.

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

DRIVEWAY SIGHT DISTANCE

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.3.2.7

FORMULA SIGHT DISTANCE TABLE

Speed (V) (Miles Per Hour)	Average Grade (G) (Percent)										
	Use plus grades when approaching vehicle is traveling upgrade.										
	0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0	+8.0	+9.0	+10.0
25	147	145	144	143	142	140	139	138	137	136	135
30	196	194	191	189	187	185	183	182	180	178	177
35	249	245	242	239	236	233	231	228	226	224	221
40	314	309	304	299	295	291	287	284	280	277	274
45	383	376	370	364	358	353	348	343	339	334	330
50	462	453	444	436	429	422	415	409	403	397	392
55	538	527	517	508	499	490	482	475	468	461	454

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

**FORMULA SIGHT DISTANCE TABLE
USE PLUS GRADES WHEN APPROACHING VEHICLE IS TRAVELING UPGRADE**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.3.2.7a

FORMULA SIGHT DISTANCE TABLE

Speed (V) (Miles Per Hour)	Average Grade (G) (Percent)										
	Use negative grades when approaching vehicle is traveling downgrade.										
	0.0	-1.0	-2.0	-3.0	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0
25	147	148	150	151	153	155	157	159	161	164	166
30	196	199	201	204	207	210	214	217	221	226	230
35	249	252	256	260	265	269	275	280	286	292	299
40	314	319	325	331	338	345	352	360	369	379	389
45	383	390	398	406	415	425	435	447	459	472	487
50	462	471	481	492	504	517	531	546	563	581	600
55	538	550	562	576	590	606	622	641	661	682	706

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

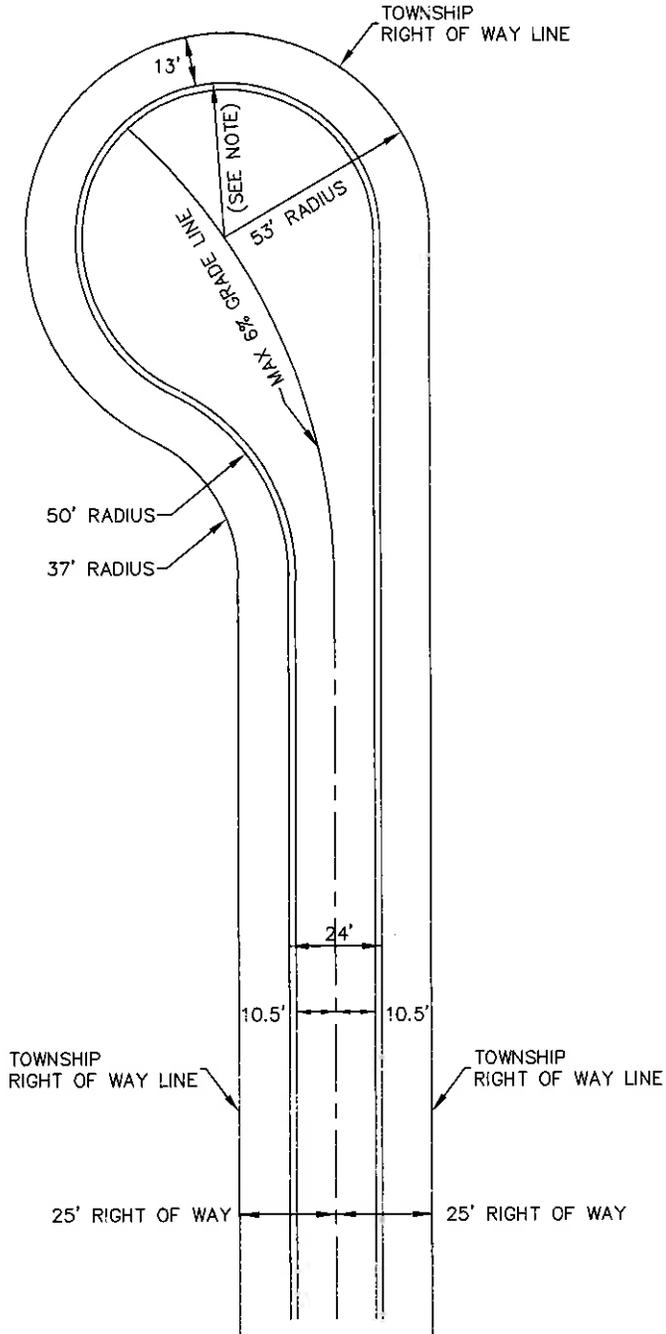
**FORMULA SIGHT DISTANCE TABLE
USE PLUS GRADES WHEN APPROACHING VEHICLE IS TRAVELING DOWNGRADE**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.3.2.7b

NOTE:

- 1. MINIMUM RADIUS: 40' LOCAL RESIDENTIAL (TO BACK OF CURB)
LOCAL COMMERCIAL - TO BE DETERMINED
BY TOWNSHIP ENGINEER.



ADOPTED BY THE BOARD: DECEMBER 4, 2006

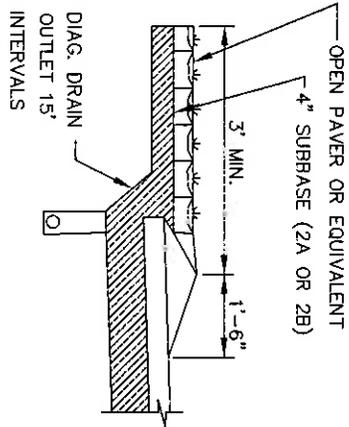
REVISIONS:

CUL-DE-SAC WITHOUT ISLAND

UPPER ST. CLAIR TWP. STANDARD DETAILS

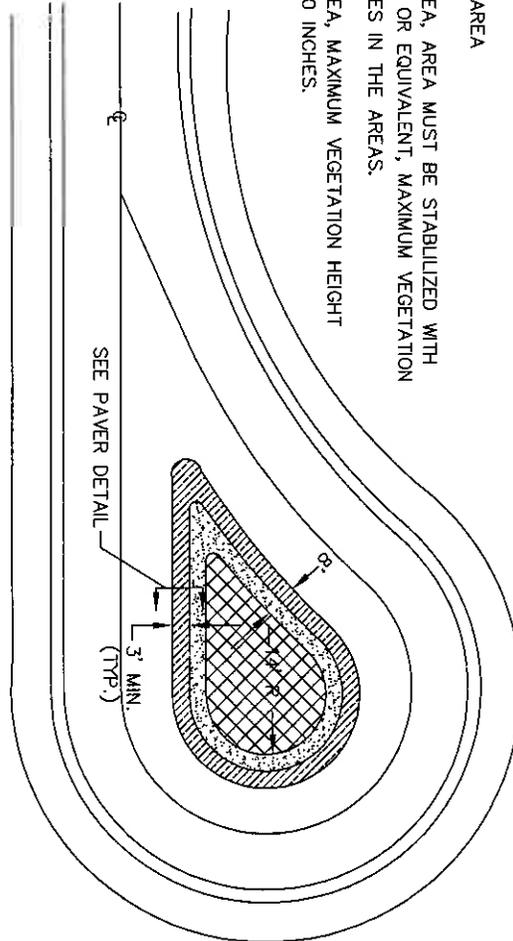
FIG. 99.5.1.3.3.1

Date: JUNE 23, 2002
Job No. C-8087-0001



PAVER DETAIL
N.T.S.

- ☒ UNRESTRICTED PLANTING AREA
- ▨ RESTRICTED PLANTING AREA, AREA MUST BE STABILIZED WITH APPROVED OPEN PAVERS OR EQUIVALENT, MAXIMUM VEGETATION HEIGHT SHALL BE 3 INCHES IN THE AREAS.
- ▩ RESTRICTED PLANTING AREA, MAXIMUM VEGETATION HEIGHT WITHIN AREA SHALL BE 10 INCHES.



NOTE:

ALL ISLAND FEATURES ARE TO BE MAINTAINED
BY HOMEOWNERS ASSOCIATION

ADOPTED BY THE BOARD: DECEMBER 4, 2006

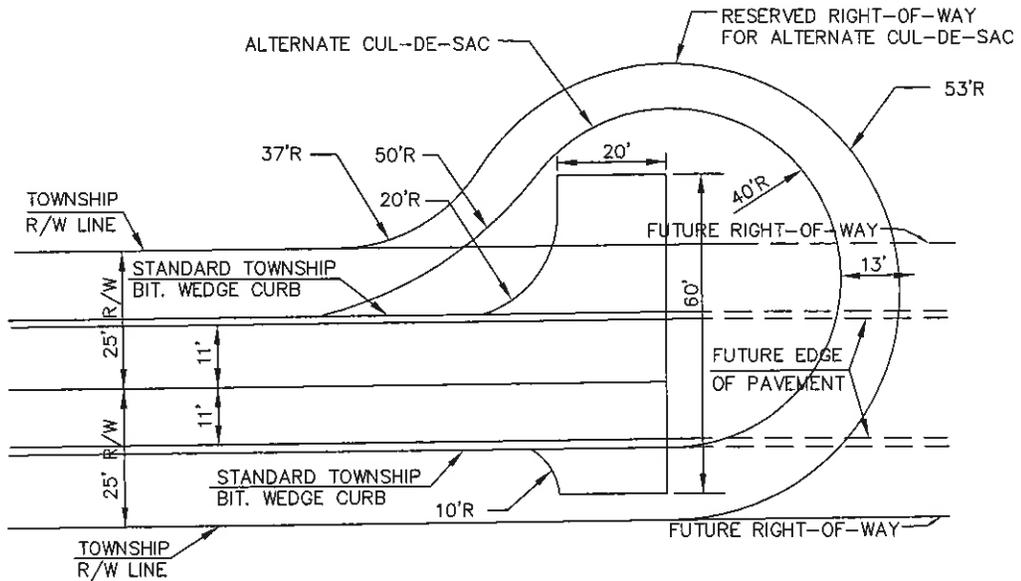
REVISIONS:

**CUL-DE-SAC WITH ISLAND, PLANTING REQUIREMENTS
TO ALLOW EMERGENCY, MAINTENANCE & DELIVERY VEHICLES**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.3.3.2.b

Date: FEB. 1, 2002
Job No. C-8087-0001



ADOPTED BY THE BOARD: DECEMBER 4, 2006

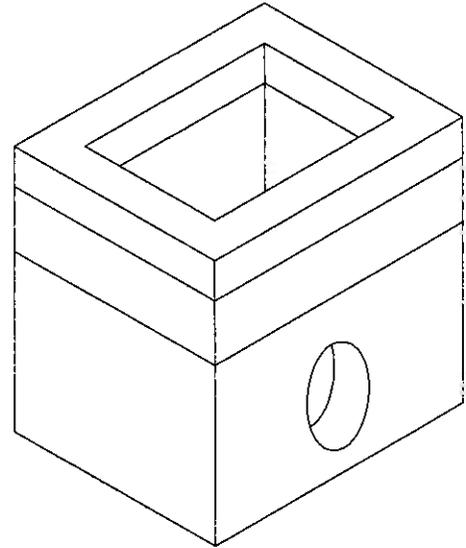
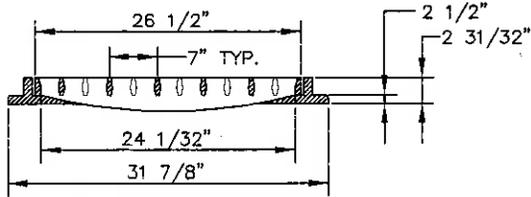
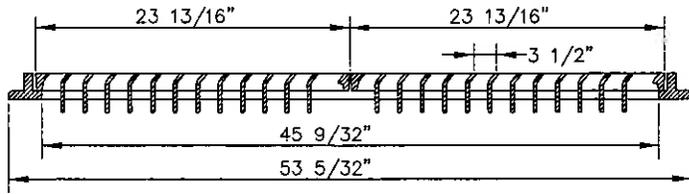
REVISIONS:
MARCH 1, 2006

**MULTI-PHASE DEVELOPMENT
TEMPORARY HAMMERHEAD TURNAROUND**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.1.3.3.3

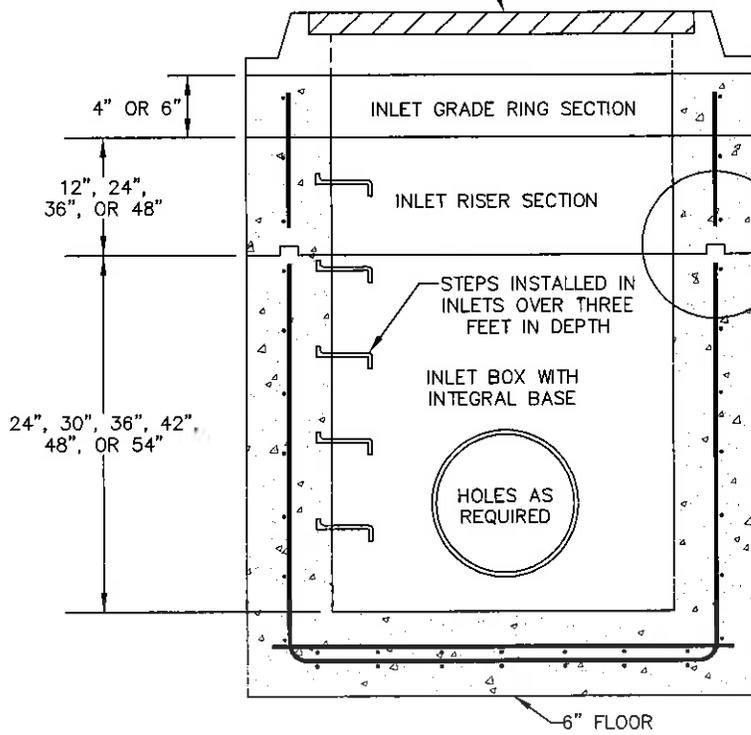
Date: JUNE 23, 2002
Job No. C-8087-0001



ISOMETRIC VIEW

- USE PENNDOT APPROVED 2x4 INLET BOX
- NEENAH R-3574-2L FRAME AND GRATE (2 PIECE GRATE)

INLET TOP UNIT AND GRATE AS REQUIRED



ELEVATION VIEW

- NOTES:**
1. CEMENT CONCRETE - CLASS AA.
 2. REINFORCING - 60 ksi, PLAIN, MEETING ASTM A615.
 3. MINIMUM 1 1/2 INCHES CLEARANCE TO REINFORCING.
 4. OPENINGS LOCATED AS REQUIRED.
 5. ALL OTHER CONSTRUCTION IN ACCORDANCE WITH PENNDOT PUB. 408 AND RC STANDARDS OR CURRENT REVISION.
 6. MAX. DEPTH - VARIABLE AS APPROVED BY THE TOWNSHIP.

NOTE
NEENAH FOUNDRY FRAME & GRATE NO. R-3574-2L STEPS SHALL BE INSTALLED @ 12" SPACINGS IN ALL STORM INLETS OVER 3' IN DEPTH.

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
MARCH 10, 2005
NOVEMBER 21, 2005
NOVEMBER 29, 2005

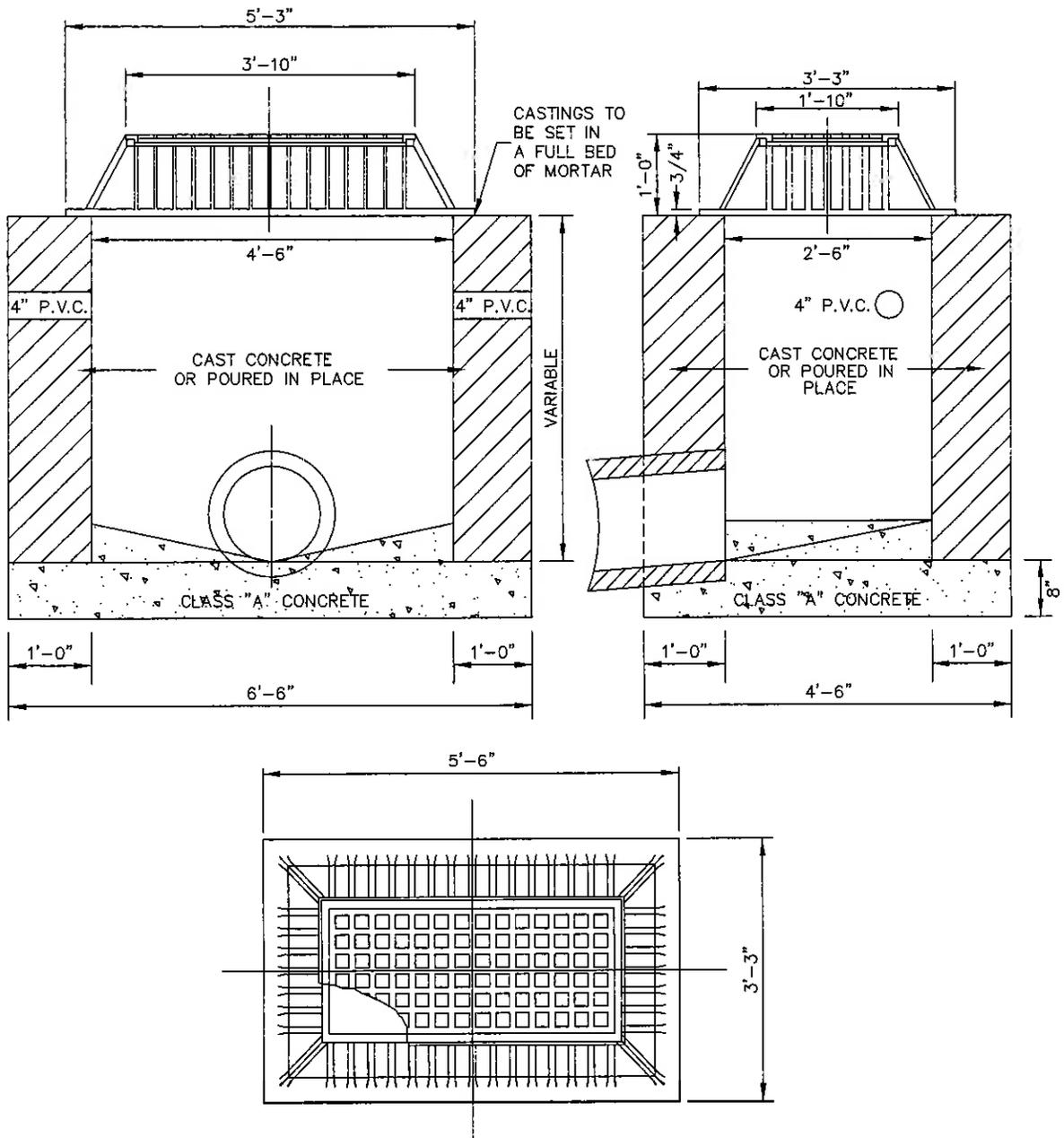
4' STORM INLET WITHOUT HOOD

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.2a

Date: JUNE 23, 2002
Job No. C-8087-0001

CASTING: ALLEGHENY FOUNDRY FRAME NO. 69. GRATING NO. 68 OR EQUAL.



NOTES:

1. ALLEGHENY FOUNDRY NO 64 STEPS SHALL BE INSTALLED @ 12" SPACINGS IN ALL STORM INLETS OVER 3' IN DEPTH.
2. PRECAST CONCRETE STORM INLETS WILL BE PERMITTED IF INSIDE DIMENSIONS ARE SAME AS ABOVE. SHOP DRAWINGS MUST BE SUBMITTED FOR APPROVAL.

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
NOVEMBER 21, 2005

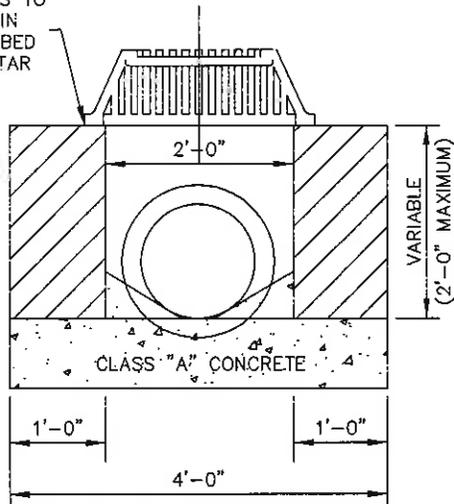
**BASKET TYPE
STORM INLET**

UPPER ST. CLAIR TWP. STANDARD DETAILS

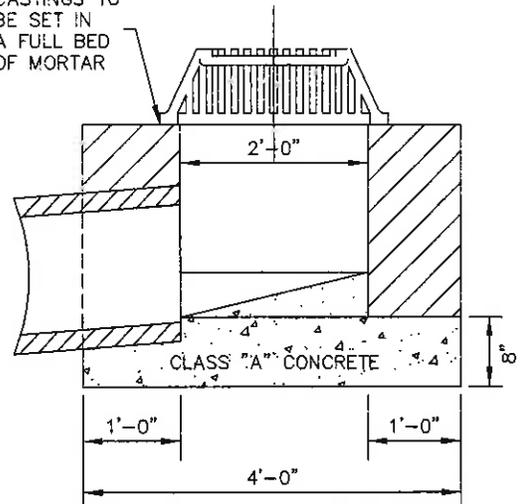
FIG. 99.5.2.2b

Date: JUNE 23, 2002
Job No. C-8087-0001

CASTINGS TO
BE SET IN
A FULL BED
OF MORTAR

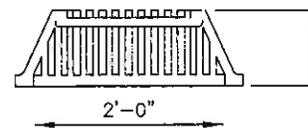
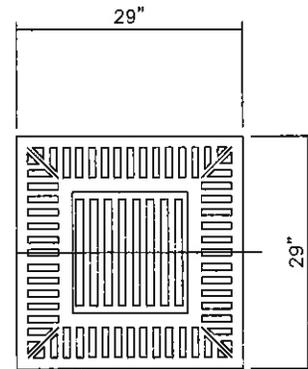


CASTINGS TO
BE SET IN
A FULL BED
OF MORTAR



NOTES:

1. CASTING ALLEGHENY FOUNDRY FRAME NO 320.
ALLEGHENY FOUNDRY GRATING NO 319 OR APPROVED EQUAL.
2. STORM INLETS ARE TO BE CONSTRUCTED PRECAST
OR POURED IN PLACE
3. GRATES MUST BE SCREENED



ADOPTED BY THE BOARD: DECEMBER 4, 2006

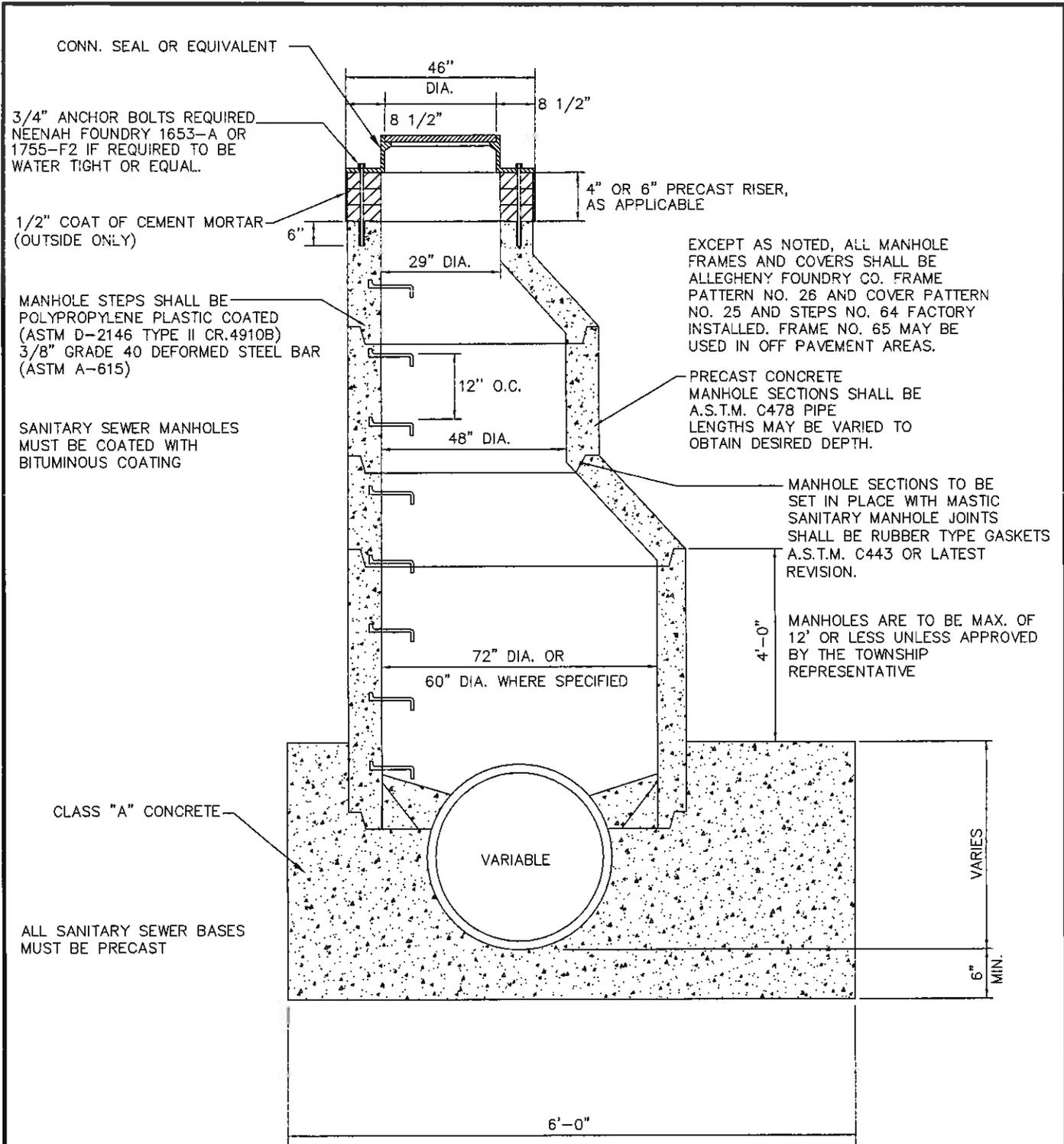
REVISIONS:
NOVEMBER 21, 2005

ALTERNATE BASKET TYPE STORM INLET

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.2c

Date: JUNE 23, 2002
Job No. C-8087-0001



ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
MARCH 16, 2005
NOVEMBER 21, 2005
MARCH 17, 2008

**PRE-CAST CONCRETE MANHOLE
FOR PIPES UNDER 48" IN DIAMETER**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.3a

Date: JUNE 23, 2002
Job No. C-8087-0001

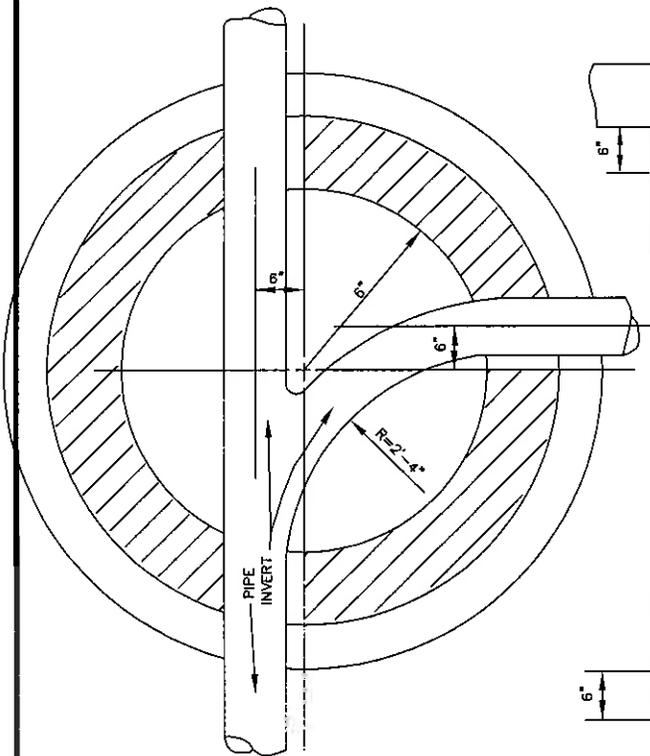
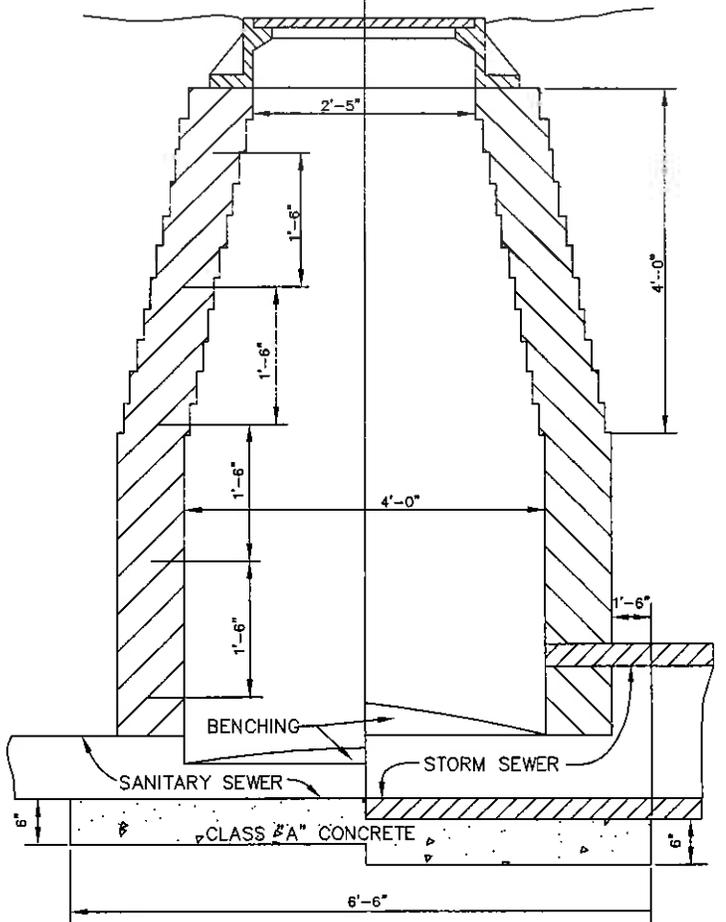
ALLEGHENY FOUNDRY CASTING:
 FRAME #26 COVER #25
 STEPS #64
 FRAME #65 MAY BE USED IN
 OFF PAVEMENT AREAS.

*ALL BRICK SHALL BE SOLID CONCRETE
 BRICK.

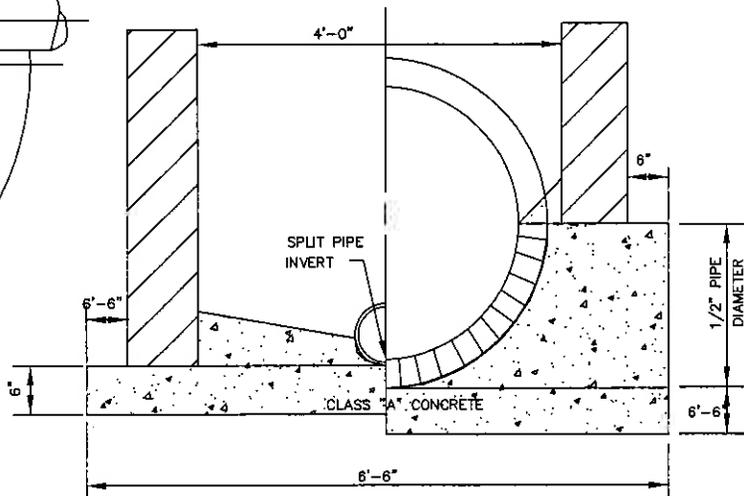
BRICK MASONRY WALL THICKNESS
 4'-0" TO 9'-0" BELOW SURFACE-9" WALL
 9'-0" TO 17'-0" BELOW SURFACE-13" WALL
 17'-0" TO 26'-0" BELOW SURFACE-18" WALL

*SPECIAL CONSTRUCTION SHALL BE PROVIDED
 IN SHALLOW MANHOLES WHERE THE TAPERED
 SECTION MUST BE LESS THAN 4'-0"

*ALL MORTAR JOINTS ON INSIDE OF
 MANHOLE TO BE STRUCK.



TYPICAL INVERT FOR
 SANITARY MANHOLE



ADOPTED BY THE BOARD: DECEMBER 4, 2006

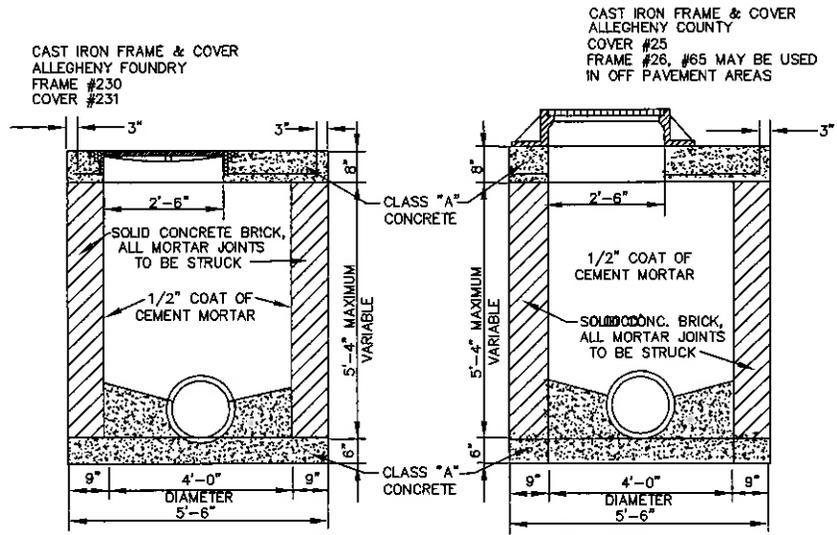
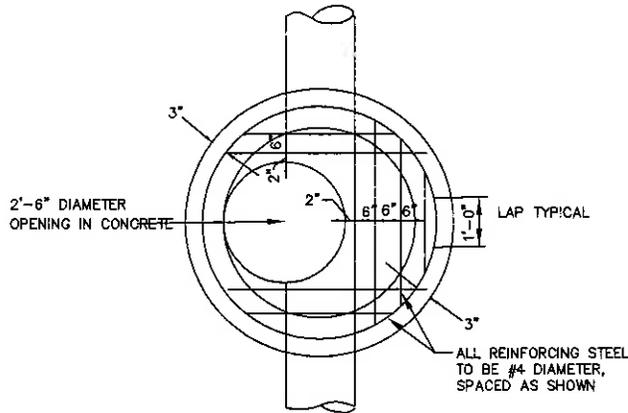
REVISIONS:

BRICK MANHOLE DETAILS FOR PIPES UNDER 48" IN DIAMETER

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.3c

Date: JUNE 23, 2002
 Job No. C-8087-0001



ADOPTED BY THE BOARD: DECEMBER 4, 2006

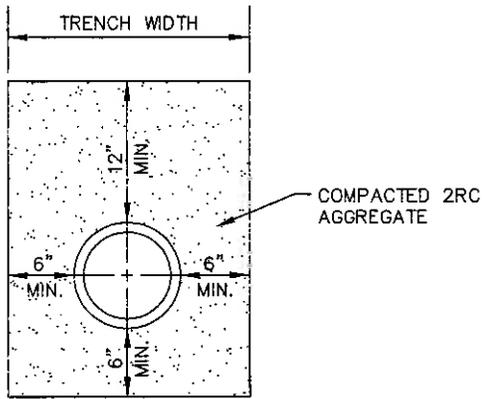
REVISIONS:

SHALLOW BRICK MANHOLE

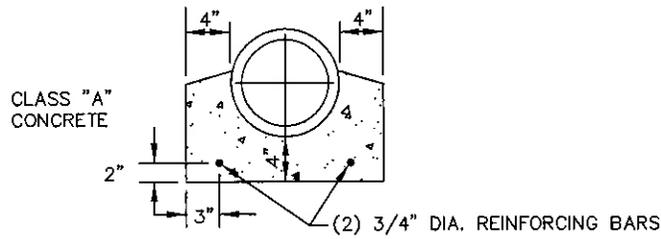
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.3d

Date: JUNE 23, 2002
Job No. C-8087-0001

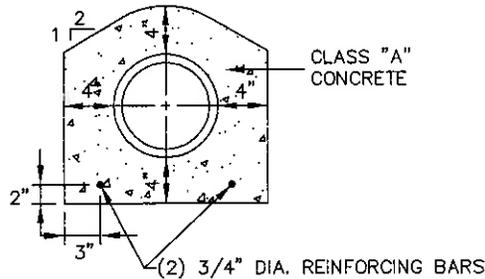


TYPE "A"



TYPE "B"

ALL CRADLES MUST BE
POURED ON SITE



TYPE "B"

ADOPTED BY THE BOARD: DECEMBER 4, 2006

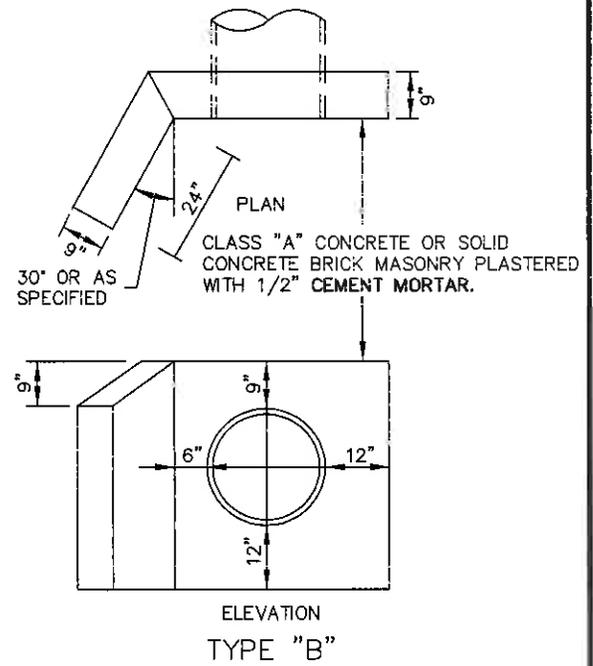
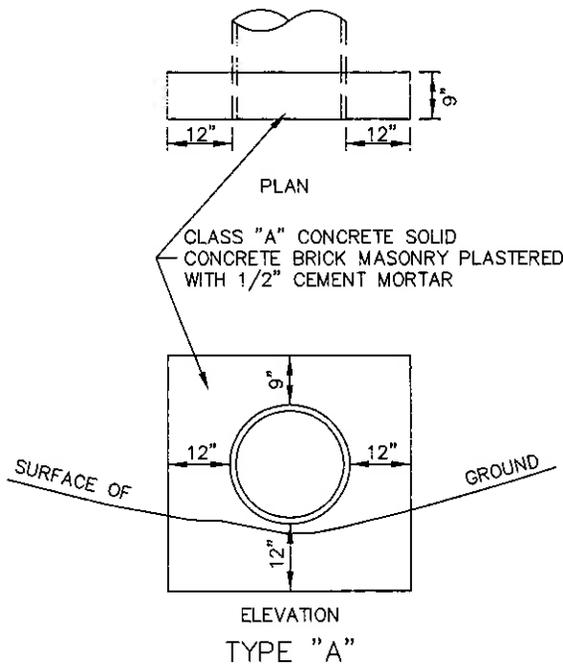
REVISIONS:

CRADLES & REINFORCEMENTS FOR SEWERS

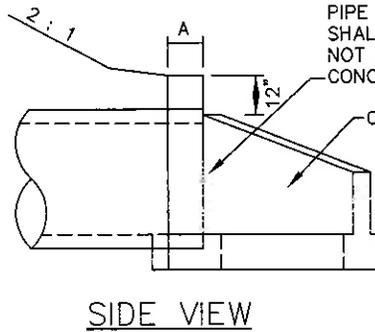
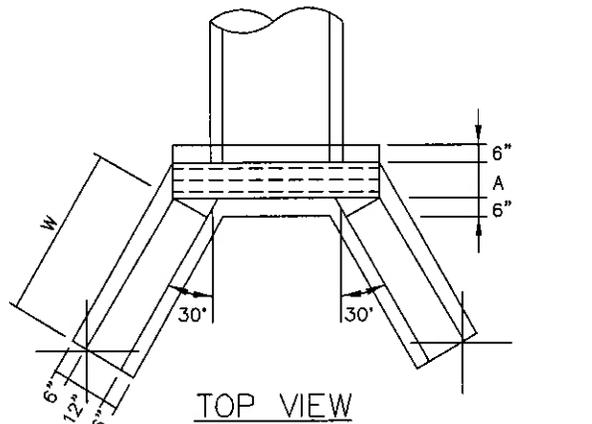
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.6

Date: JUNE 23, 2002
Job No. C-8087-0001

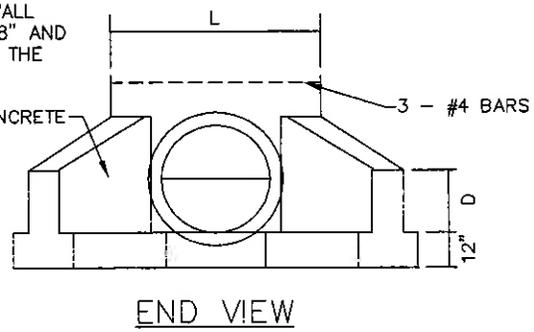


PIPE DIAMETER D (IN.)	L (FT.)	W (FT.)	A (IN.)	D (FT.)
24	4.8	3.5	12	1.3
30	5.3	3.8	12	1.3
36	5.8	4.6	12	1.5
42	6.3	5.8	12	1.5
48	6.9	6.9	15	1.8
54	7.5	8.0	15	2.0
60	8.1	9.2	15	2.3
72	9.2	11.5	18	2.5



PIPE EXITING ENDWALL SHALL PROTRUDE 8" AND NOT BE BURIED IN THE CONCRETE FLOOR

CLASS "A" CONCRETE



TYPE "C"

NOTES: ALTERNATIVE ENDWALLS DESIGN MAY BE SUBMITTED FOR APPROVAL BY THE TOWNSHIP ENGINEER

ADOPTED BY THE BOARD: DECEMBER 4, 2006

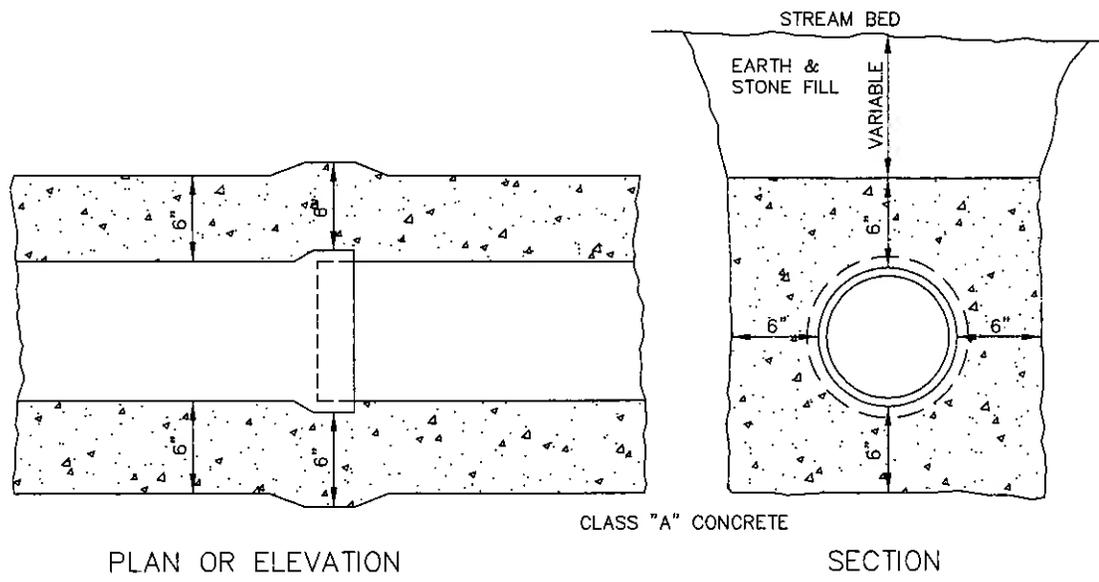
REVISIONS:
NOVEMBER 21, 2005
NOVEMBER 29, 2005

ENDWALL DETAILS

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.7

Date: JUNE 23, 2002
Job No. C-8087-0001

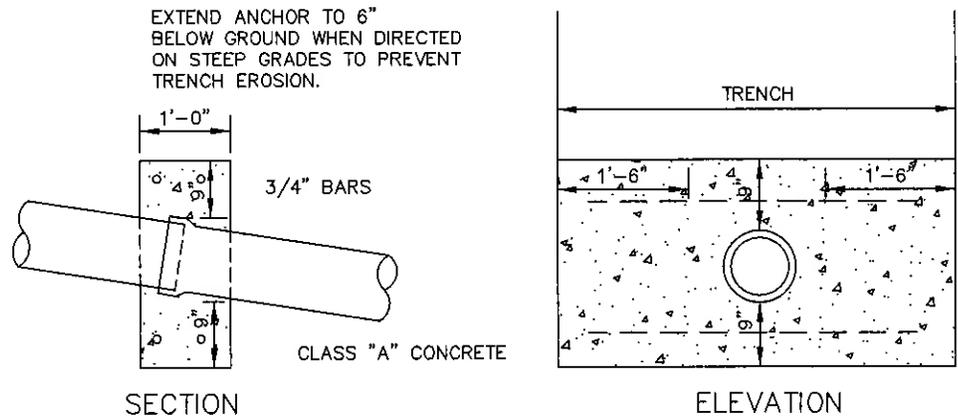


PLAN OR ELEVATION

SECTION

CLASS "A" CONCRETE

CONCRETE ENCASEMENT



SECTION

ELEVATION

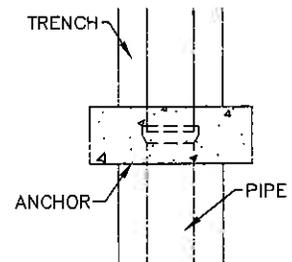
EXTEND ANCHOR TO 6" BELOW GROUND WHEN DIRECTED ON STEEP GRADES TO PREVENT TRENCH EROSION.

3/4" BARS

CLASS "A" CONCRETE

NO ANCHORS ON GRADES LESS THAN 20%.
 PROVIDE ANCHORS 36' C.C. ON GRADES 20% AND UP TO 35%.
 PROVIDE ANCHORS 24' C.C. ON GRADES 35% AND UP TO 50%.
 PROVIDE ANCHORS 16' C.C. ON GRADES 50% AND OVER.

NOTE: PIPE ANCHOR SHOULD BE LOCATED AT PIPE BELLS FOR SANITARY SEWER



NOTE: SPACING REQUIREMENTS TO BE APPROVED BY THE TOWNSHIP.

CONCRETE ANCHOR

ADOPTED BY THE BOARD: DECEMBER 4, 2006

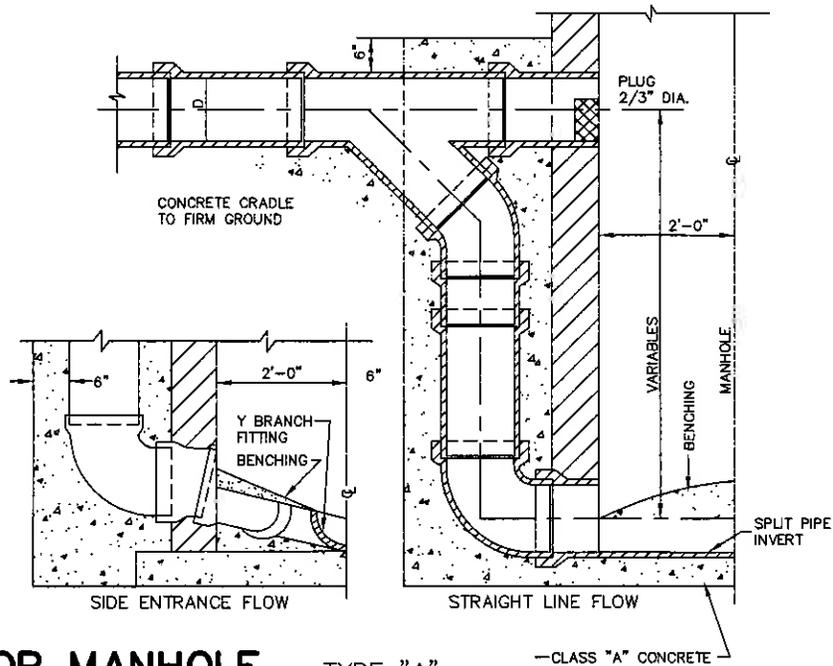
REVISIONS:
 NOVEMBER 21, 2005

CONCRETE ENCASEMENT & ANCHORS
 FOR SEWERS

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.8

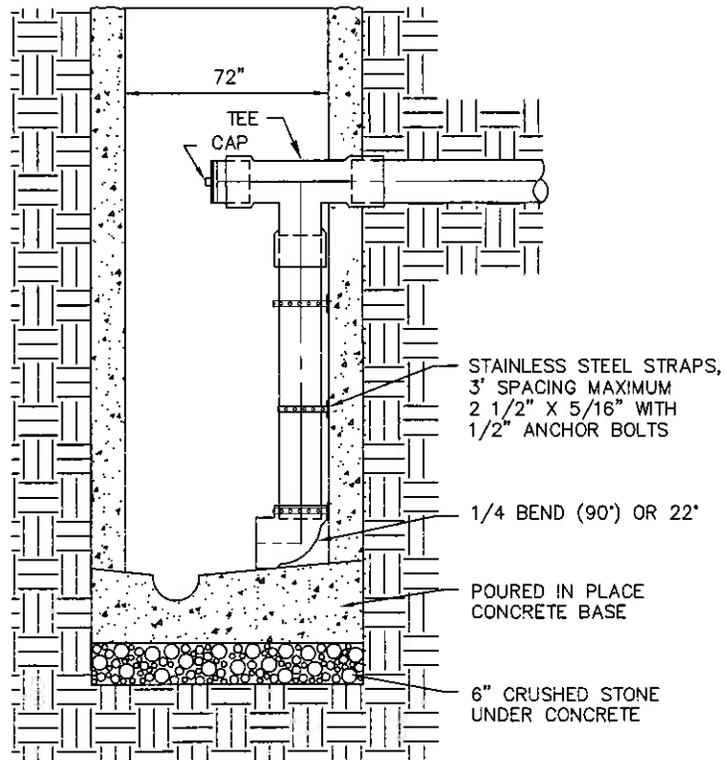
Date: JUNE 23, 2002
 Job No. C-8087-0001



OUTSIDE DROP MANHOLE TYPE "A"

NOTES:

- 1 SIDE ENTRANCE FLOW SAME AS ABOVE INVERT DETAIL.
- 2 ALL MANHOLES SHALL BE CONSTRUCTED IN CONFORMANCE WITH CONSTRUCTION STANDARD FIG. 4.2.3A, EXCEPT ALL DROP MANHOLES TO HAVE 72" INSIDE DIAMETER WIDTH VERSUS 48" AS SHOWN ON FIG. 4.2.3A.
- 3 DROP MANHOLES MUST BE APPROVED BY THE TOWNSHIP.
- 4 ALL SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH CURRENT ASTM C-1244 TESTING REQUIREMENTS.
- 5 OUTSIDE DROP MANHOLES MAY BE APPROVED ON A CASE BY CASE BASIS BY THE BOROUGH ENGINEER OR TOWNSHIP REPRESENTATIVE.



INSIDE DROP MANHOLE TYPE "A"

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

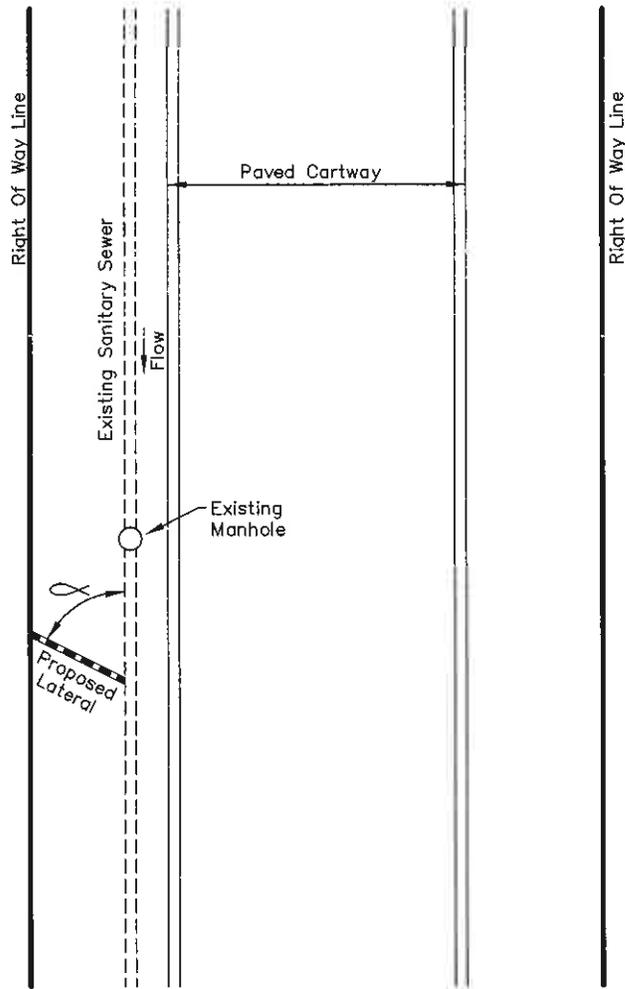
**CONNECTION FOR
DROP MANHOLE**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.9

Date: JUNE 23, 2002
Job No. C-8087-0001

New construction shall require a sanitary sewer lateral be constructed at a continuous angle (∞) in a straight run from the main sanitary sewer line to the road Right of Way Line. The angle of the lateral shall be adequate to maintain flow into the main sewer line. The Township only maintains the main sanitary sewer. The property owner is responsible for the lateral from the main line to the house. If the main sewer lies within a cartway, the Township may perform the work at the property owners expense.



TYPICAL CONSTRUCTION

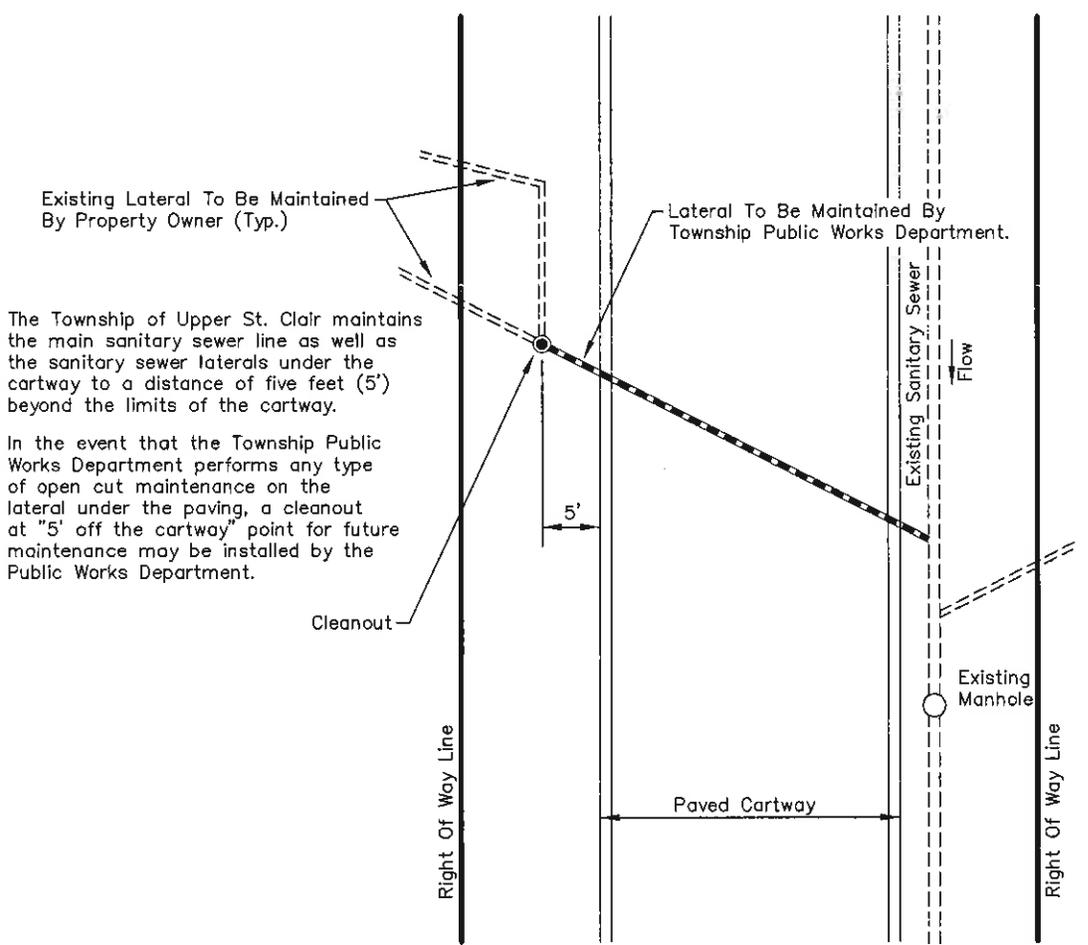
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

**PUBLIC IMPROVEMENT CODE – SECTION 109
LATERAL MAINTENANCE DETAIL (OUTSIDE CARTWAY)**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.9a



Existing Lateral To Be Maintained By Property Owner (Typ.)

Lateral To Be Maintained By Township Public Works Department.

The Township of Upper St. Clair maintains the main sanitary sewer line as well as the sanitary sewer laterals under the cartway to a distance of five feet (5') beyond the limits of the cartway.

In the event that the Township Public Works Department performs any type of open cut maintenance on the lateral under the paving, a cleanout at "5' off the cartway" point for future maintenance may be installed by the Public Works Department.

Cleanout

5'

Existing Sanitary Sewer

Flow

Existing Manhole

Paved Cartway

Right Of Way Line

Right Of Way Line

ATYPICAL

ADOPTED BY THE BOARD: DECEMBER 4, 2006

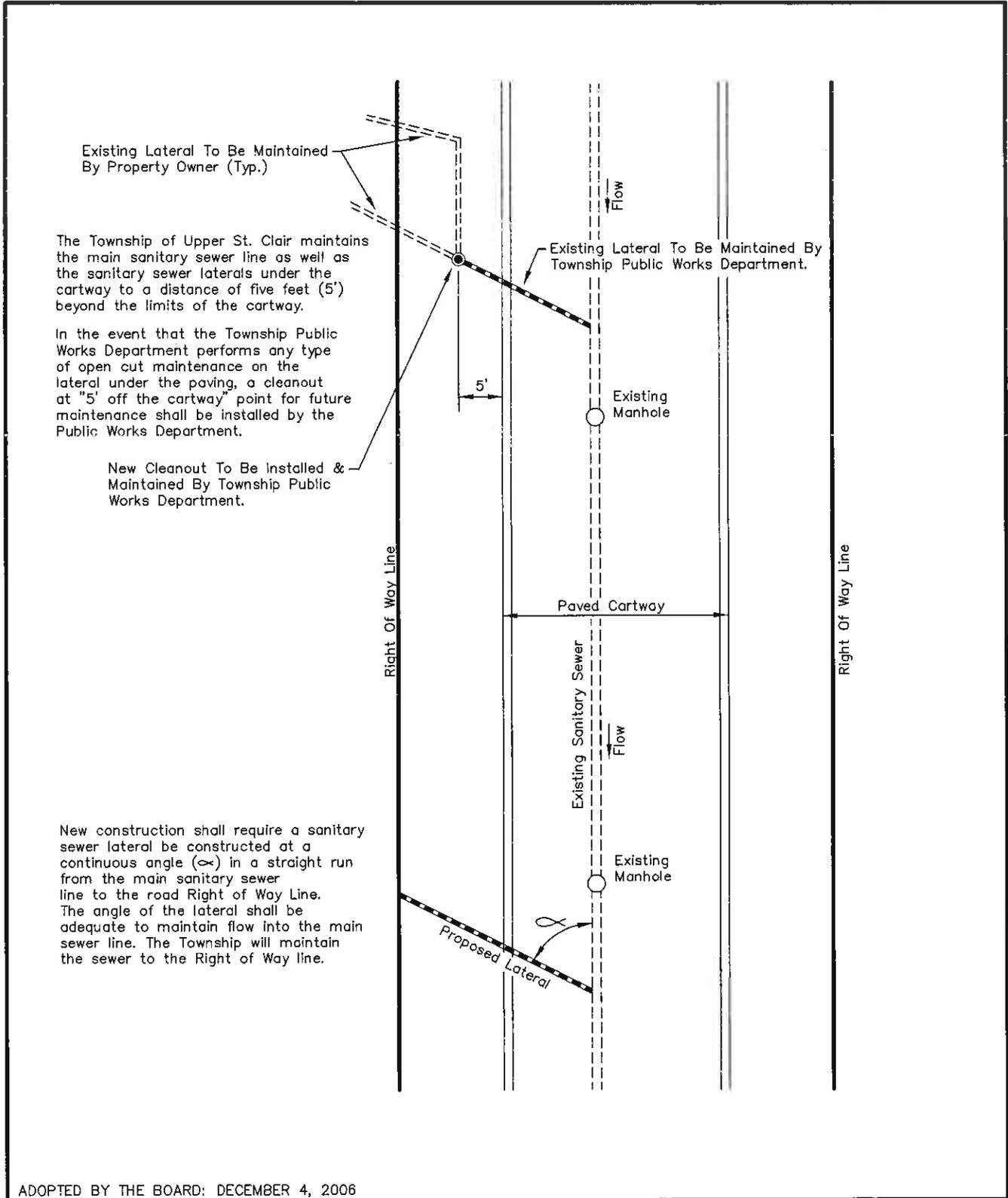
REVISIONS:
NOVEMBER 29, 2005

**PUBLIC IMPROVEMENT CODE – SECTION 109
LATERAL MAINTENANCE DETAIL (OUTSIDE CARTWAY OPPOSITE SIDE)**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.9b

Date: April, 1998
Job No. C-8087-0001



ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

**SECTION 109
LATERAL MAINTENANCE DETAIL**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.9c

Date: November, 1997
Job No. C-8087-0001

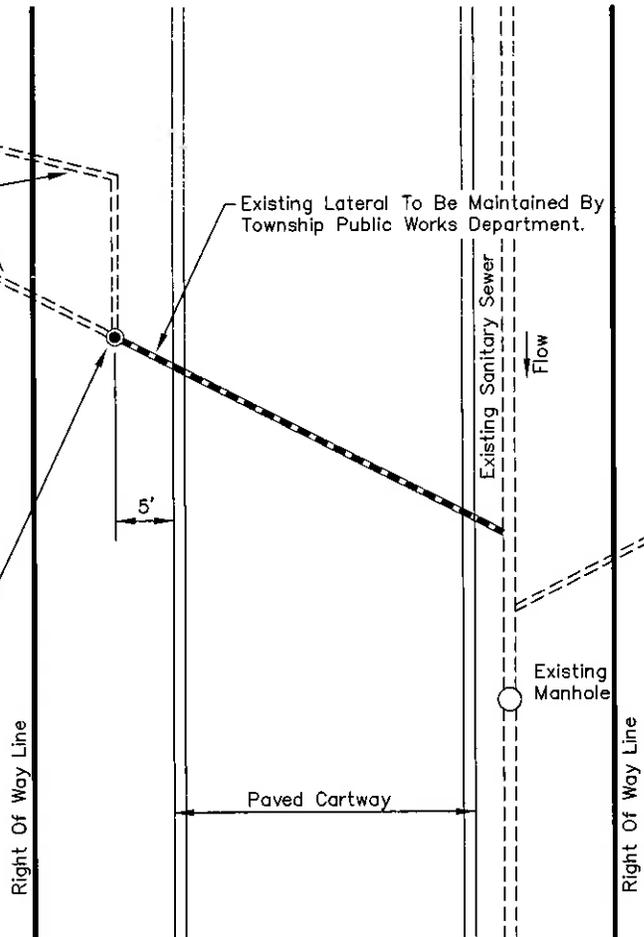
Existing Lateral To Be Maintained By Property Owner (Typ.)

Existing Lateral To Be Maintained By Township Public Works Department.

The Township of Upper St. Clair maintains the main sanitary sewer line as well as the sanitary sewer laterals under the cartway to a distance of five feet (5') beyond the limits of the cartway.

In the event that the Township Public Works Department performs any type of open cut maintenance on the lateral under the paving, a cleanout at "5' off the cartway" point for future maintenance shall be installed by the Public Works Department.

New Cleanout To Be Installed & Maintained By Township Public Works Department.



WILD CAT LATERALS

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

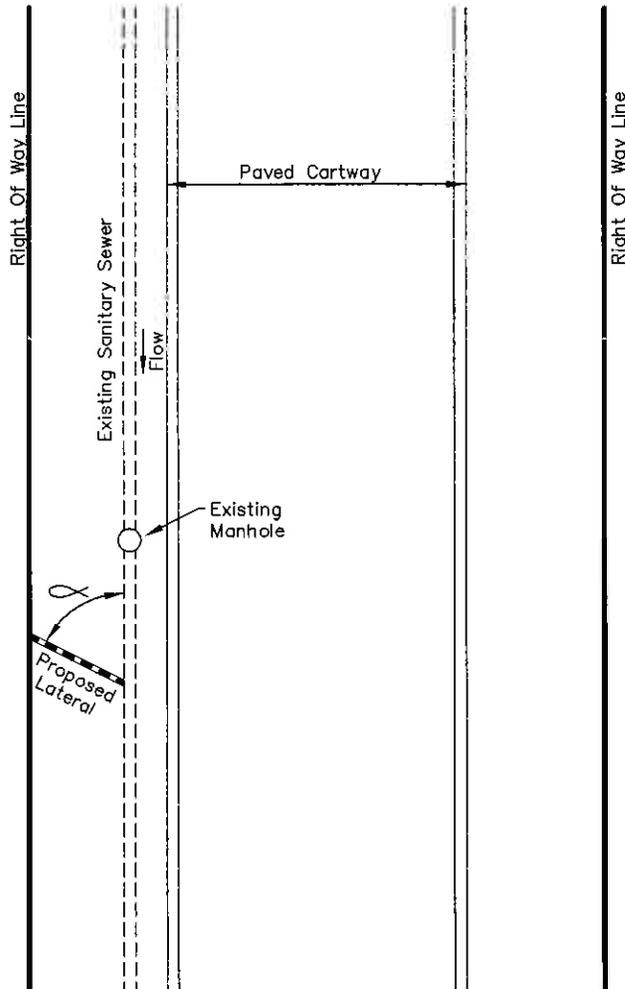
PUBLIC IMPROVEMENT CODE – SECTION 109 LATERAL MAINTENANCE DETAIL (INSIDE CARTWAY)

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.2.10

Date: March, 1998
Job No. C-8087-0001

New construction shall require a sanitary sewer lateral be constructed at a continuous angle (α) in a straight run from the main sanitary sewer line to the road Right of Way Line. The angle of the lateral shall be adequate to maintain flow into the main sewer line. The Township only maintains the main sanitary sewer. The property owner is responsible for the lateral from the main line to the house. If the main sewer lies within a cartway, the Township will perform the work at the property owners expense.



NEW CONSTRUCTION

ADOPTED BY THE BOARD: DECEMBER 4, 2006

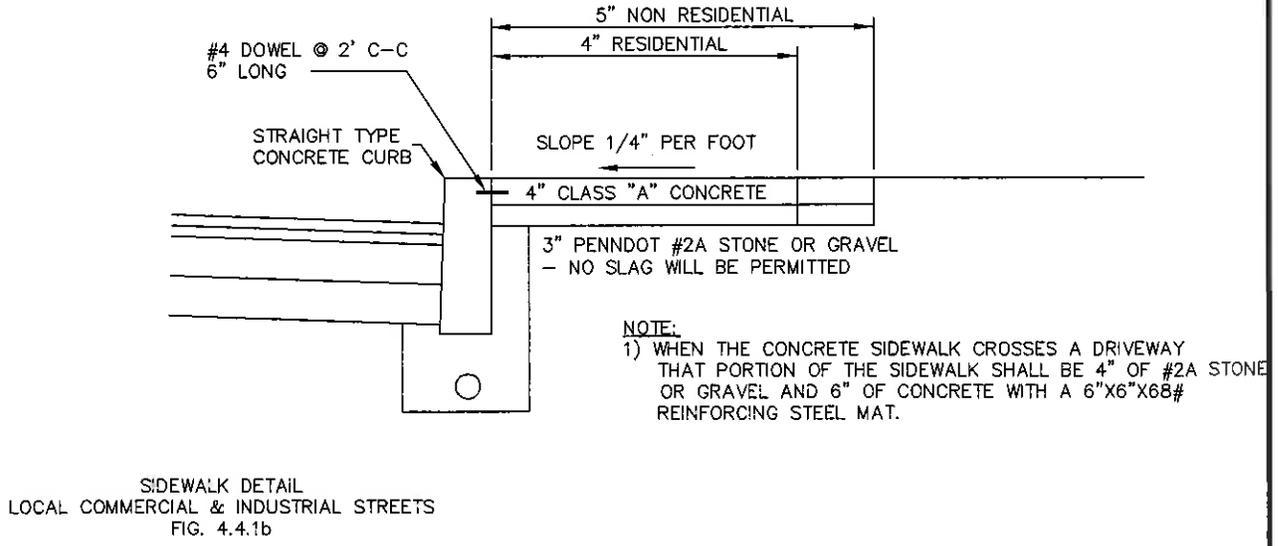
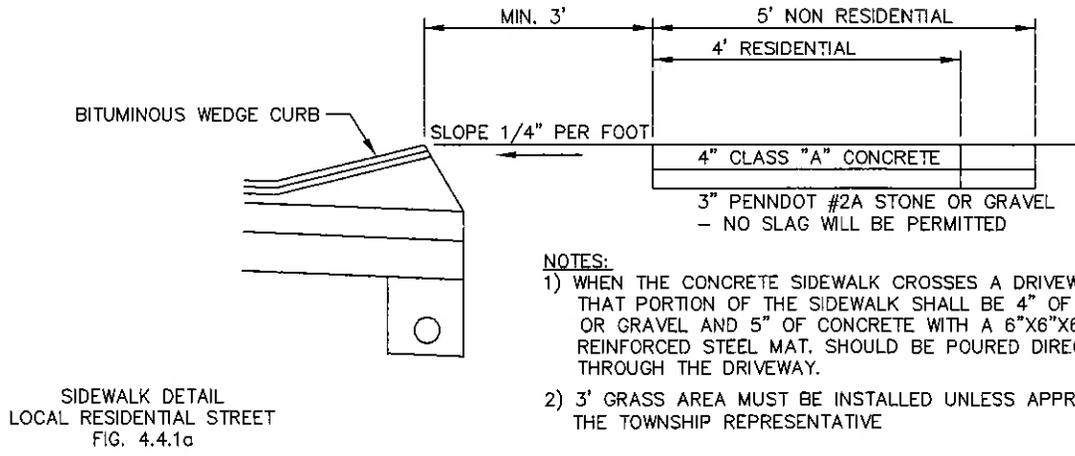
REVISIONS:

**PUBLIC IMPROVEMENT CODE – SECTION 109
LATERAL MAINTENANCE DETAIL**

UPPER ST. CLAIR TWP. STANDARD DETAILS

Fig. 99.5.2.10A

Date: March, 1998
Job No. C-8087-0001



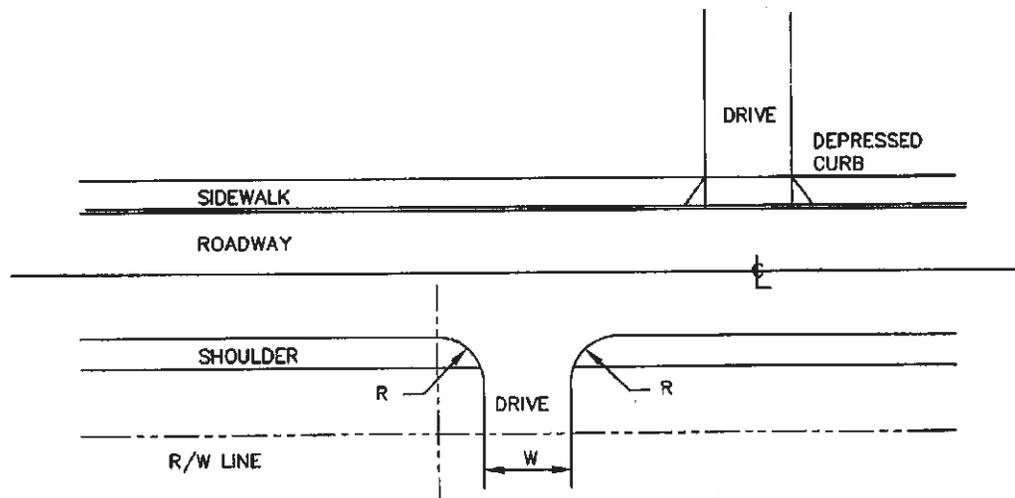
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
MARCH 16, 2005
NOVEMBER 21, 2005

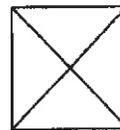
SIDEWALK DETAILS
LOCAL RESIDENTIAL, COMMERCIAL, & INDUSTRIAL STREETS
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.4.1a
FIG. 99.5.4.1b

Date: JUNE 23, 2002
Job No. C-8087-0001



	SINGLE UNIT TRUCKS & PASSENGER CARS				BUSES & COMBINATION TRUCKS			
	ROADWAY SPEED				ROADWAY SPEED			
	< 45 MPH		45 MPH AND GREATER		< 45 MPH		45 MPH AND GREATER	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
W	10'	20'	10'	20'	12'	15'	12'	20'
R	5'	15'	10'	25'	35'	50'	40'	55'



R = RADIUS

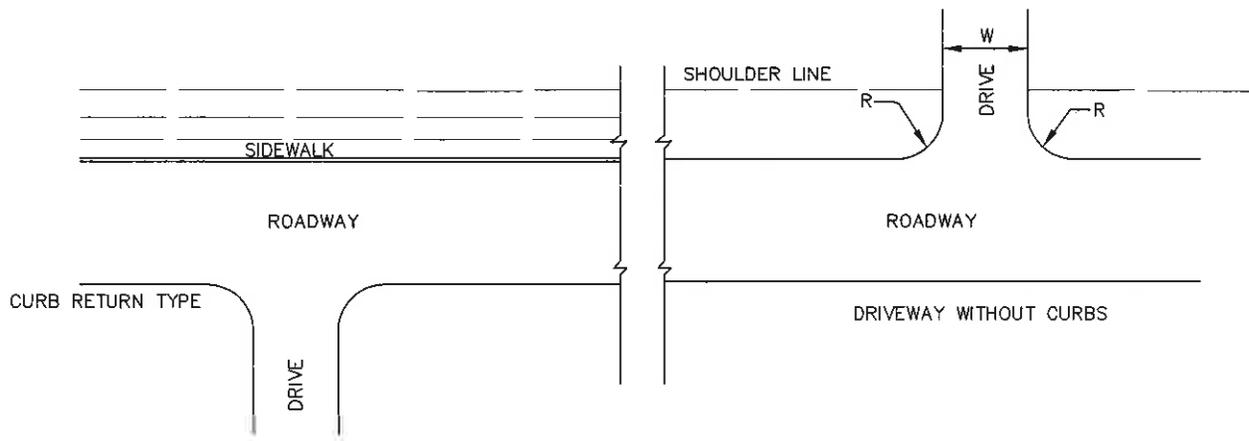
MINIMUM USE DRIVEWAY

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
MARCH 17, 2008

MINIMUM USE DRIVEWAY
SOURCE: 67S441.9 PA. DEPARTMENT OF TRANSPORTATION FIGURE 7
UPPER ST. CLAIR TWP. STANDARD DETAILS **FIG. 99.5.5.6.1**

Date: JUNE 23, 2002
 Job No. C-8087-0001



	SINGLE UNIT TRUCKS & PASSENGER CARS				BUSES & COMBINATION TRUCKS			
	ROADWAY SPEED				ROADWAY SPEED			
	< 45 MPH		45 MPH AND GREATER		< 45 MPH		45 MPH AND GREATER	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
W - ONE WAY	10'	20'	12'	20'	12'	15'	12'	20'
W - TWO WAY	20'	24'	20'	24'	22'	24'	22'	24'
R	10'	15'	15'	25'	35'	50'	45'	55'

R = RADIUS

LOW VOLUME DRIVEWAY

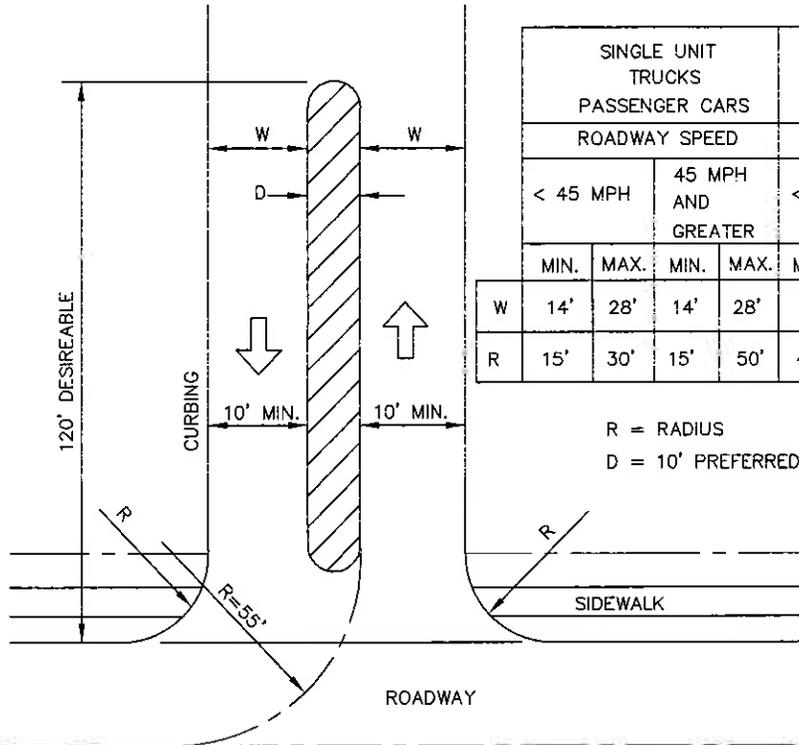
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

LOW VOLUME DRIVEWAY
SOURCE: 67S441.9 PA. DEPARTMENT OF TRANSPORTATION FIGURE 8
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.5.6.2

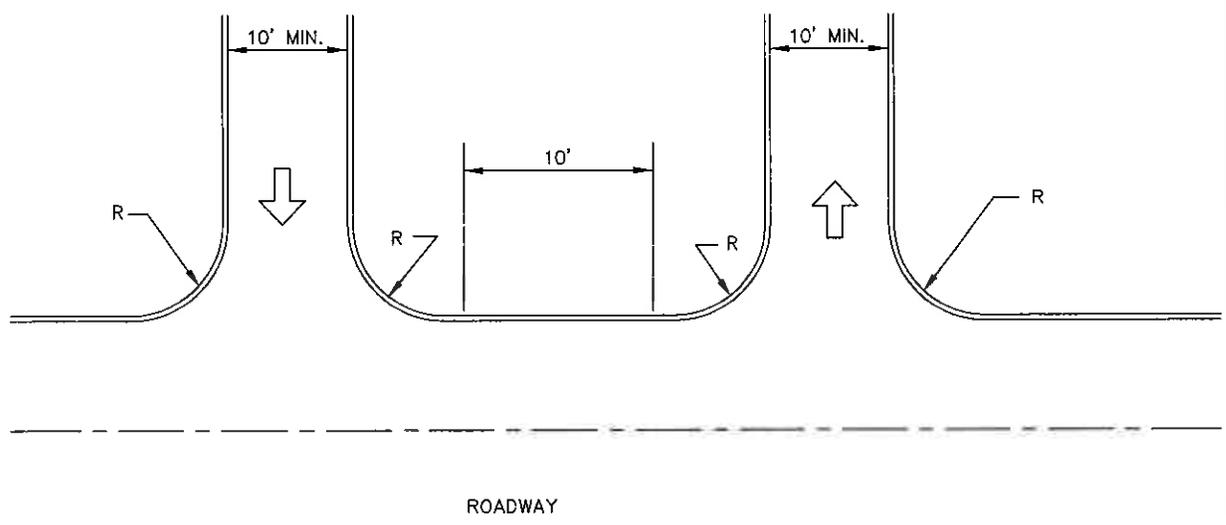
Date: JUNE 23, 2002
 Job No. C-8087-0001



SINGLE UNIT TRUCKS				BUSES AND COMBINATION TRUCKS				
PASSENGER CARS								
ROADWAY SPEED				ROADWAY SPEED				
< 45 MPH		45 MPH AND GREATER		< 45 MPH		45 MPH AND GREATER		
MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
W	14'	28'	14'	28'	14'	28'	14'	28'
R	15'	30'	15'	50'	45'	55'	50'	55'

R = RADIUS
 D = 10' PREFERRED, 4' MIN.

TWO WAY ENTRANCE WITH MEDIAN DIVIDER



ROADWAY

TWO WAY ENTRANCE - SEPARATED DRIVEWAYS

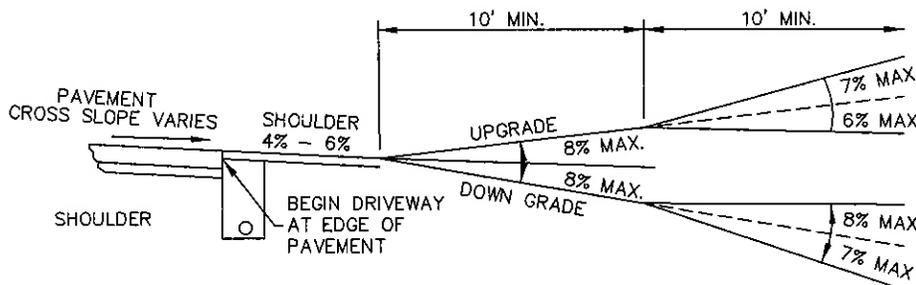
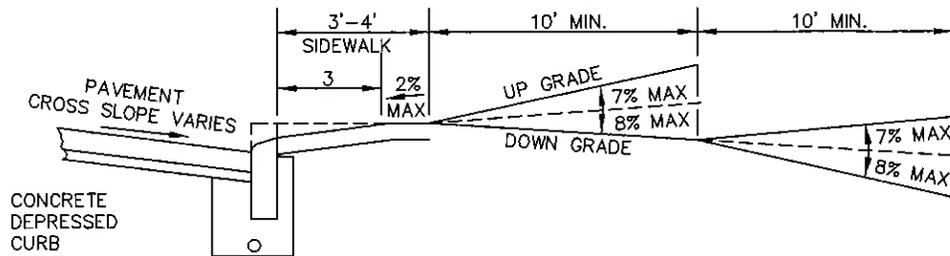
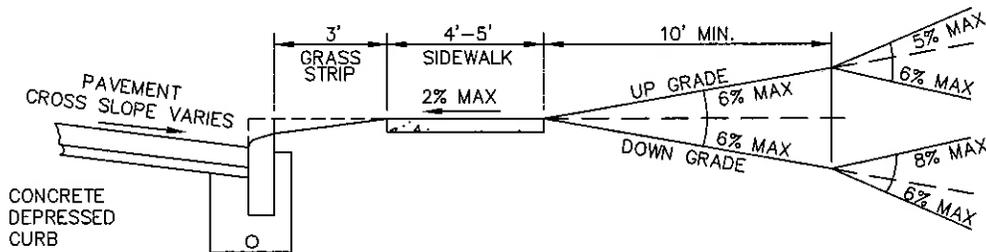
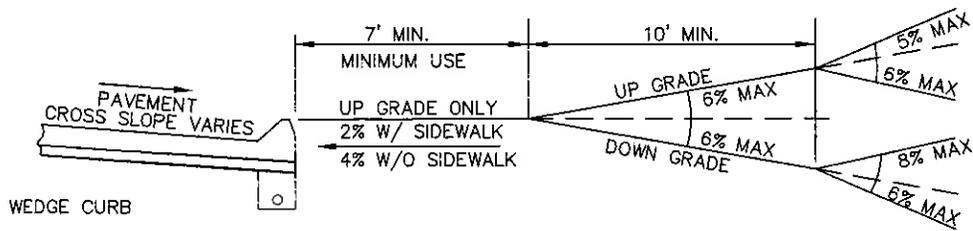
ADOPTED BY THE BOARD: DECEMBER 4, 2006
 REVISIONS:
 MARCH 1, 2006

MEDIUM VOLUME DRIVEWAY
 SOURCE: 67S441.9 PA. DEPARTMENT OF TRANSPORTATION

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.5.6.3

Date: JUNE 23, 2002
 Job No. C-8087-0001



MAXIMUM GRADE CHANGE SHALL BE LIMITED TO $\pm 15\%$ FOR MINIMUM USE DRIVEWAY.

ADOPTED BY THE BOARD: DECEMBER 4, 2006

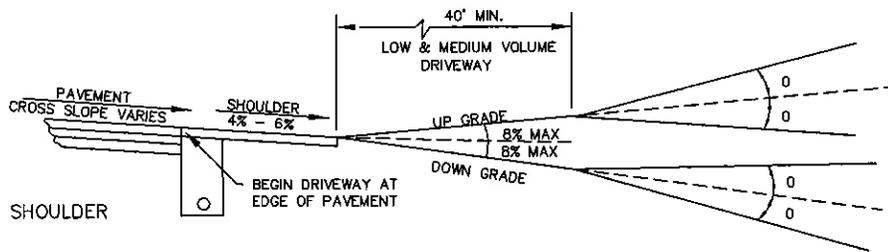
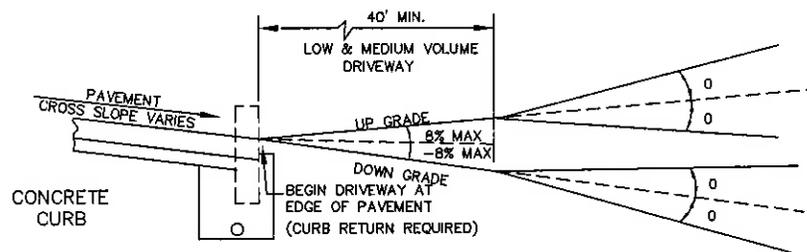
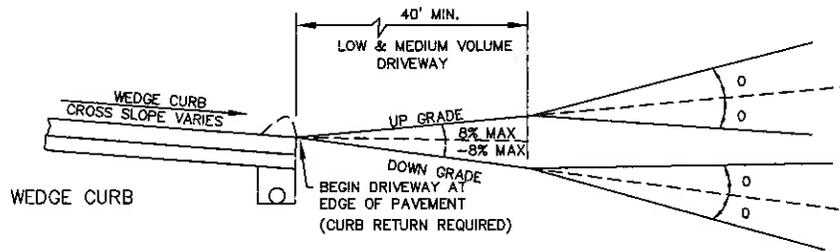
REVISIONS:
NOVEMBER 21, 2005
MARCH 1, 2006

**MINIMUM USE DRIVEWAY
GRADE REQUIREMENTS WITHIN THE RIGHT OF WAY**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.5.6.3a

Date: JUNE 23, 2002
Job No. C-8087-0001



DRIVEWAY TYPE	MAXIMUM GRADE CHANGE 101
MEDIUM VOLUME DRIVEWAY	±6%
LOW VOLUME DRIVEWAY	±7%

GRADE SHALL BE LIMITED TO ±15 % FOR LOW AND MEDIUM VOLUME DRIVEWAYS

ADOPTED BY THE BOARD: DECEMBER 4, 2006

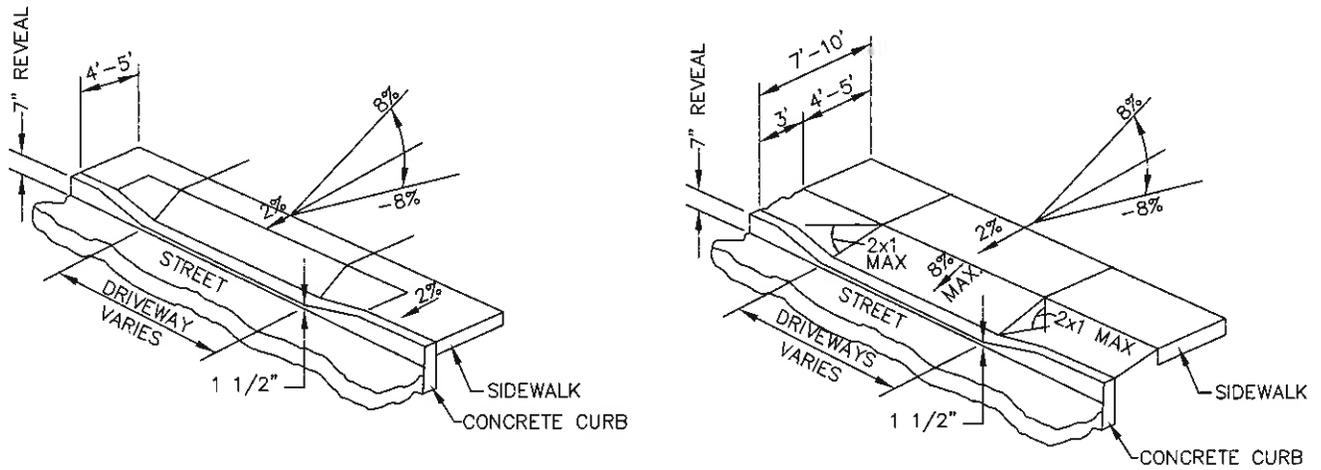
REVISIONS:
NOVEMBER 21, 2005

LOW & MEDIUM VOLUME DRIVEWAY GRADE REQUIREMENTS WITHIN THE RIGHT-OF-WAY

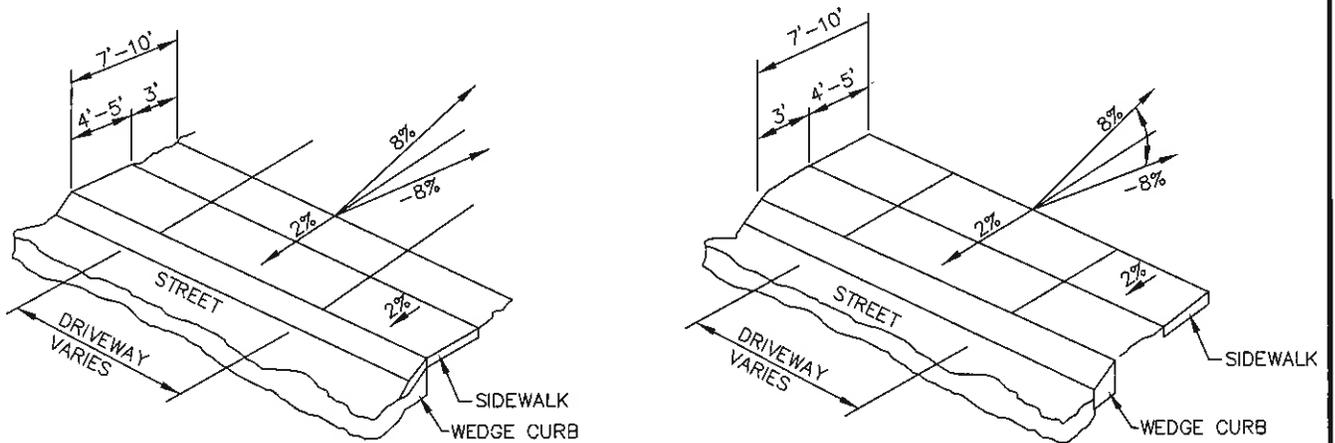
UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.5.6.3b

Date: JUNE 23, 2002
Job No. C-8087-0001



CONCRETE CURB



WEDGE CURB

NOTE: SEE FIGURE 99.5.4.1a FOR DEPTHS

ADOPTED BY THE BOARD: DECEMBER 4, 2006

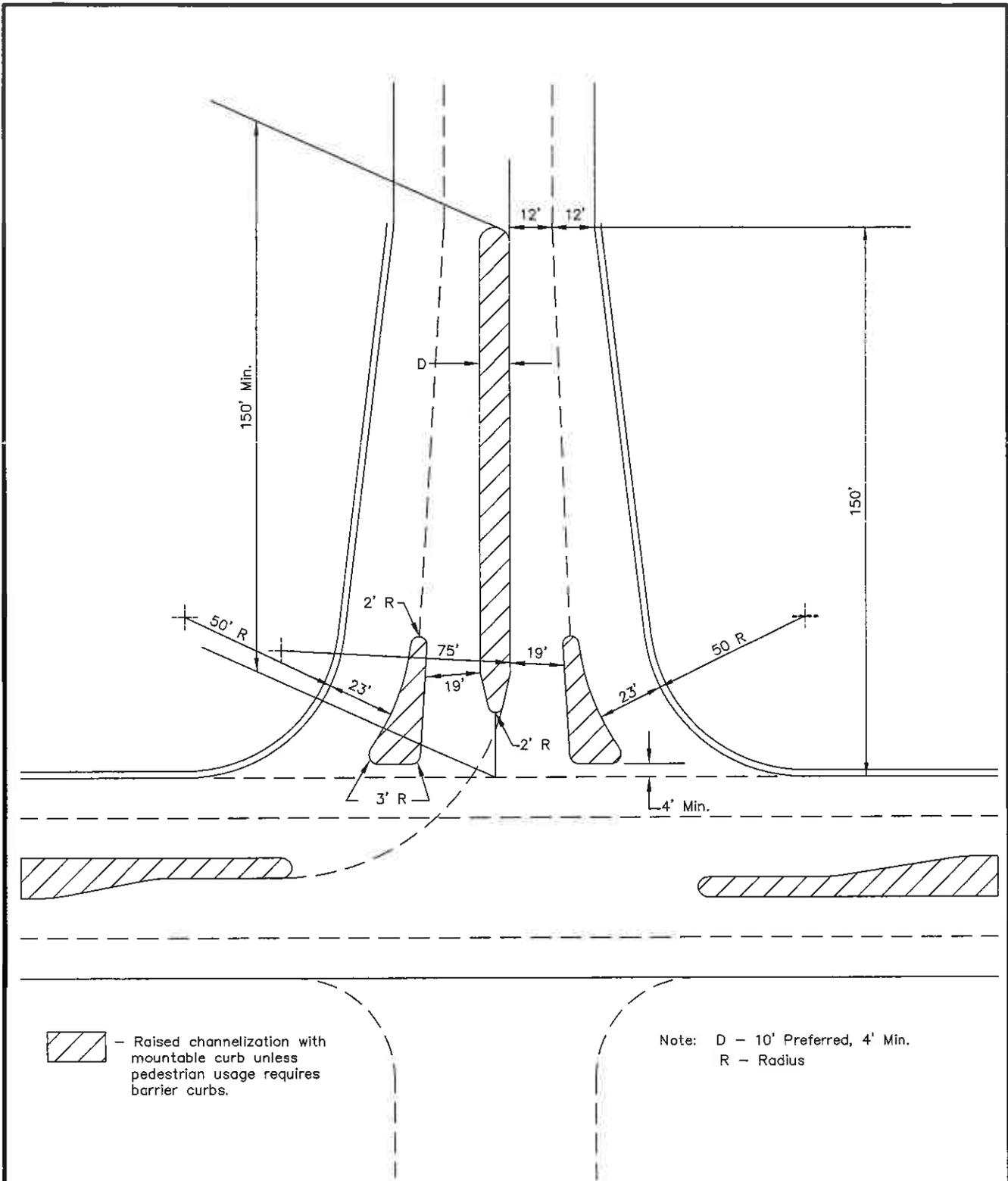
REVISIONS:
 NOVEMBER 21, 2005
 MARCH 1, 2006
 MARCH 17, 2008

MINIMUM USE DRIVEWAY REQUIREMENTS CONCRETE AND WEDGE CURBED STREET WITH & WITHOUT GRASS STRIP WITHIN THE RIGHT-OF-WAY
SOURCE: 67 441.8 PA DEPARTMENT OF TRANSPORTATION

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.5.6.3c

DATE: JUNE 23, 2002
 Job No. C-8087-0001



 - Raised channelization with mountable curb unless pedestrian usage requires barrier curbs.

Note: D - 10' Preferred, 4' Min.
R - Radius

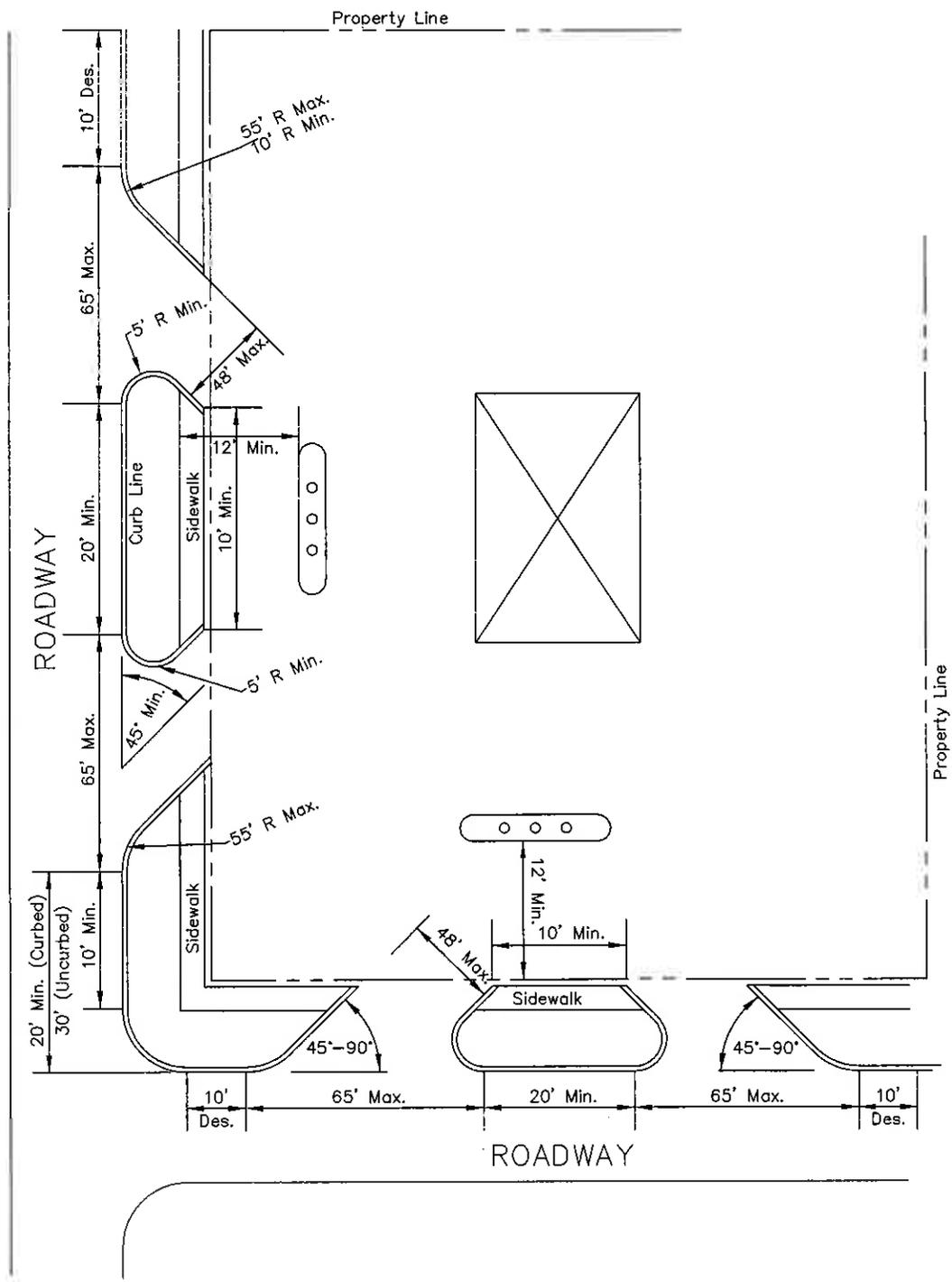
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

HIGH VOLUME DRIVEWAY

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.5.6.3d



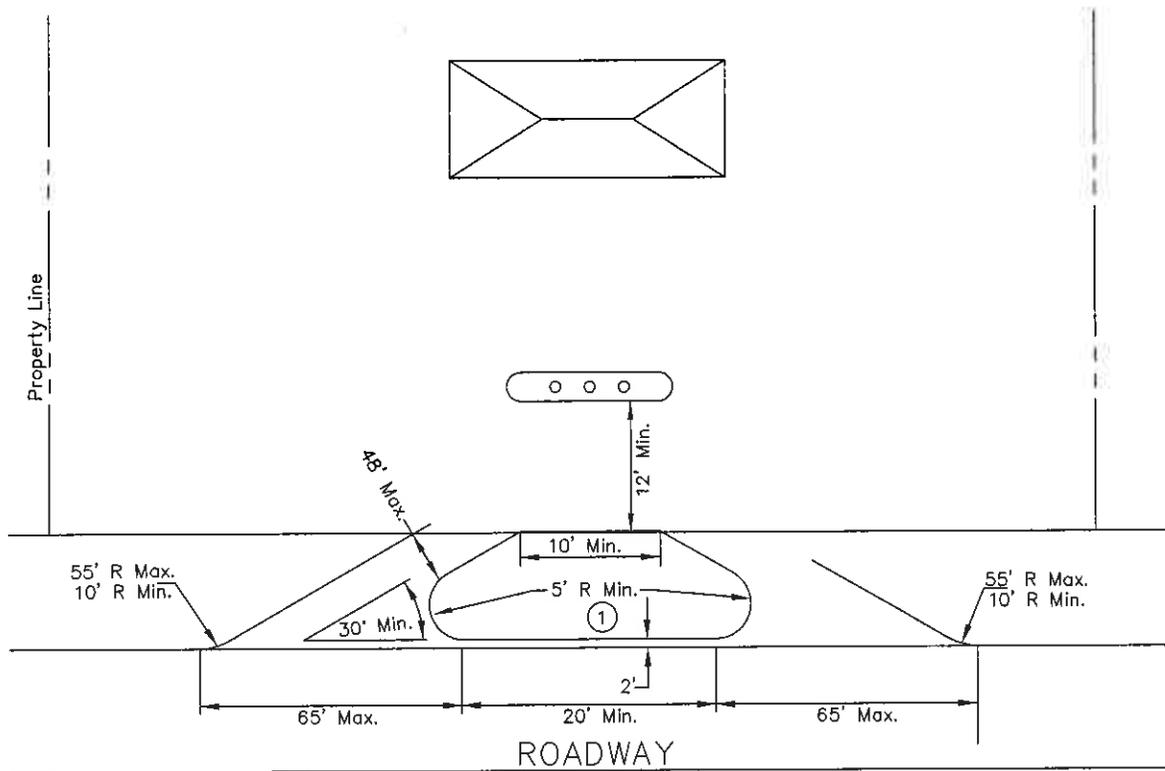
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

FUEL STATION DRIVEWAY – UNDIVIDED ROADWAY

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.5.6.3e



- ① Intermediate island, 20' or less in length, measured along the shoulder line, shall be defined by permanent curbing.

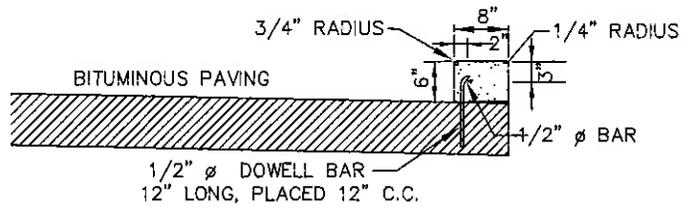
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

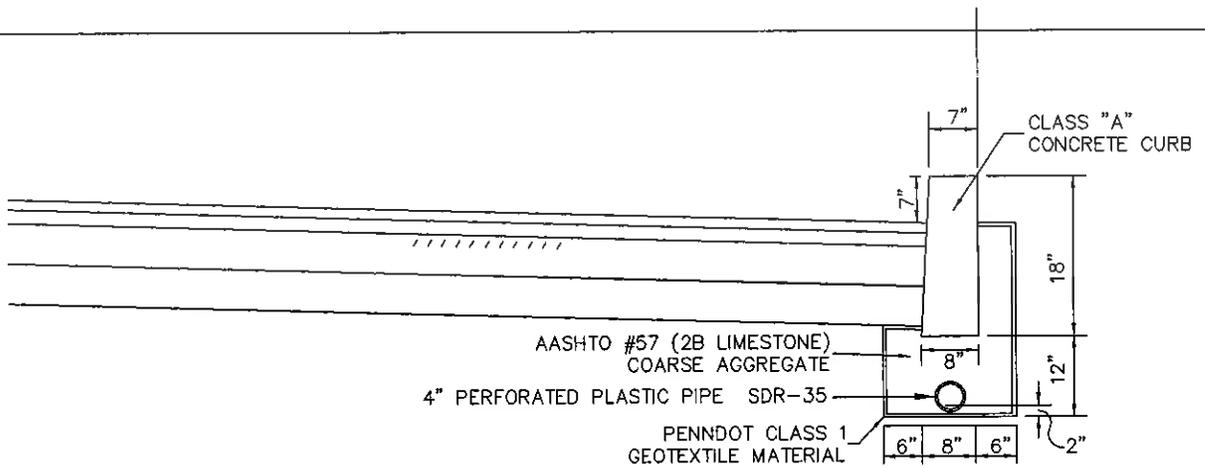
FUEL STATION DRIVEWAY ALONG DIVIDED HIGHWAYS

UPPER ST. CLAIR TWP. STANDARD DETAILS

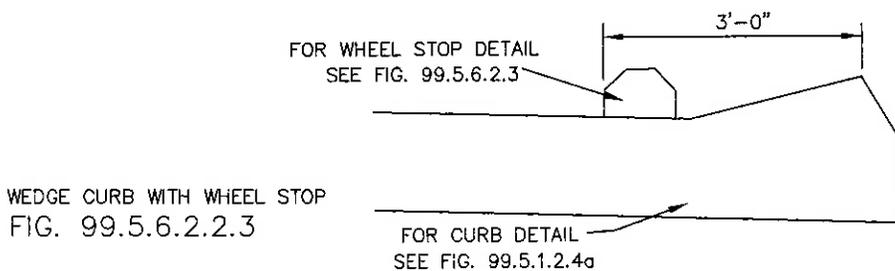
FIG. 99.5.5.6.3f



CONCRETE DECK CURB
FIG. 99.5.6.2.2.1



STANDARD CONCRETE CURB
FIG. 99.5.6.2.2.2



WEDGE CURB WITH WHEEL STOP
FIG. 99.5.6.2.2.3

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:
APRIL 13, 2005
MARCH 1, 2006
MARCH 17, 2008

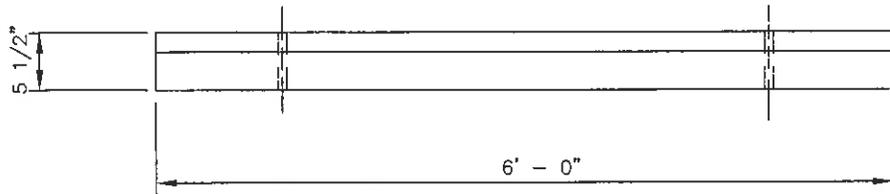
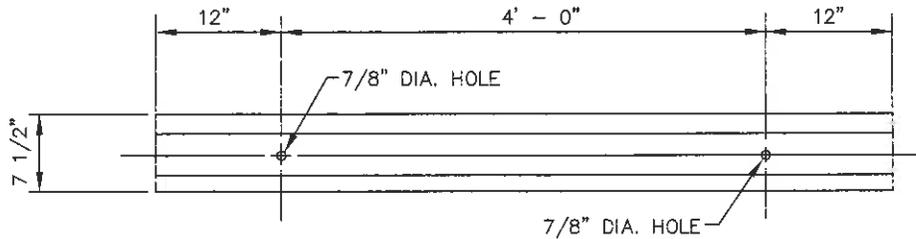
**CONCRETE DECK CURB
STANDARD CONCRETE CURB
WEDGE CURB WITH WHEEL STOP**

UPPER ST. CLAIR TWP. STANDARD DETAILS

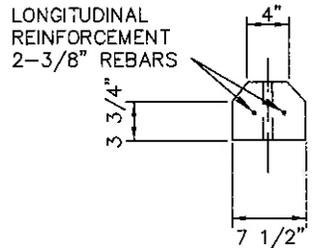
FIG. 99.5.6.2.2.1
FIG. 99.5.6.2.2.2
FIG. 99.5.6.2.2.3

Date: JUNE 23, 2002
Job No. C-8087-0001

PLAN VIEW



ELEVATION

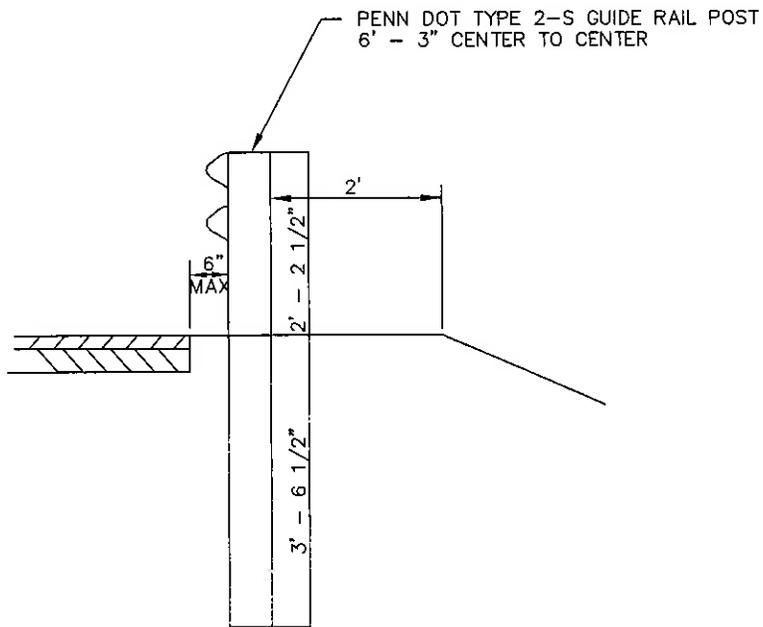


ENDVIEW

NOTE:
USE STEEL PINS 7/8" DIAMETER
24" LONG THROUGH PAVING AND SUBGRADE

REINFORCED CONCRETE WHEELSTOP

FIG. 99.5.6.2.3



BUMPER STOP

FIG. 99.5.6.2.4

ADOPTED BY THE BOARD: DECEMBER 4, 2006

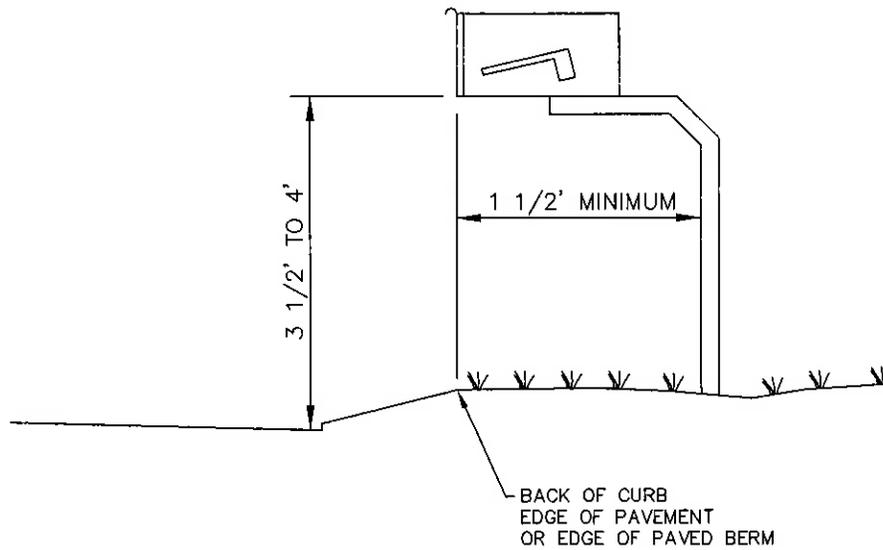
REVISIONS:
MARCH 1, 2006
MARCH 17, 2008

WHEEL STOP
AND BUMPER STOP

TOWNSHIP OF UPPER ST. CLAIR

FIG. 99.5.6.2.3
FIG. 99.5.6.2.4

Date: JUNE 23, 2002
Job No. C-8087-0001



NOTE: PLACEMENT OF MAILBOX MUST ADHERE TO THE REQUIREMENTS OF THE UNITED STATES POST OFFICE.

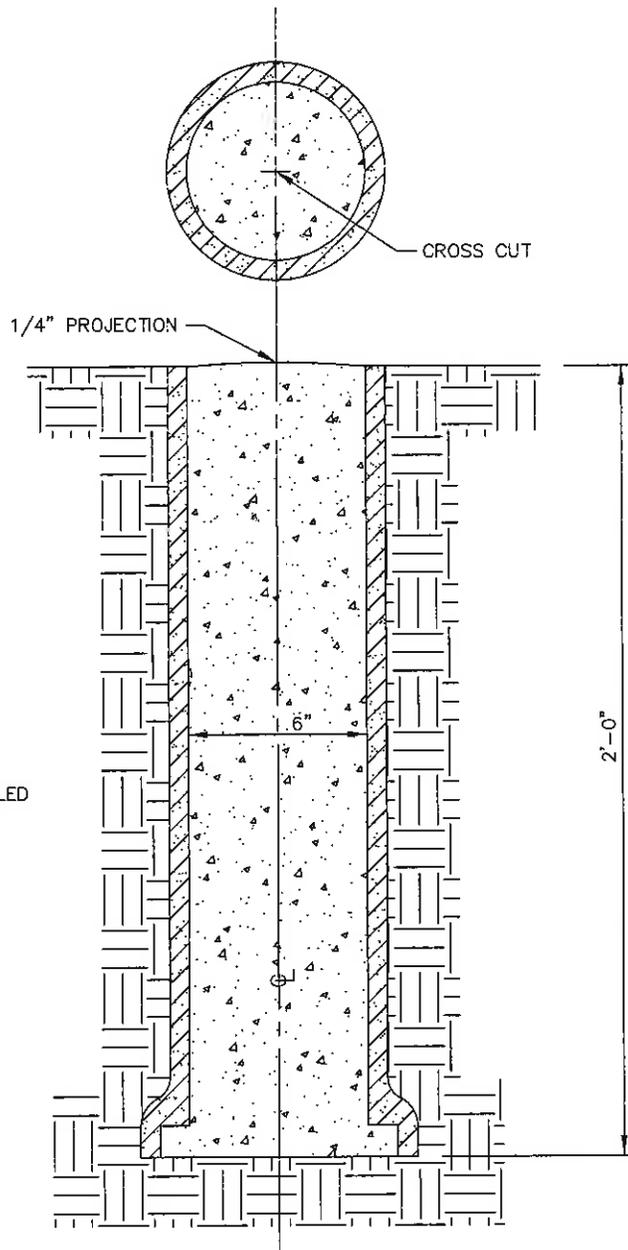
ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

**MAILBOX STANDARD
LOCAL RESIDENTIAL STREETS**

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.6.2.5



NOTE:
 6" CLAY PIPE IS TO BE FILLED
 WITH CLASS "B" CONCRETE.

MONUMENTS TO BE INSTALLED IN SUBDIVISIONS
 AT DESIGNATED LOCATIONS WITHIN THE STREET
 RIGHT-OF-WAY 5'-0" OFF THE PROPERTY LINE

ADOPTED BY THE BOARD: DECEMBER 4, 2006

REVISIONS:

SURVEY MONUMENT DETAIL

UPPER ST. CLAIR TWP. STANDARD DETAILS

FIG. 99.5.6.2.6

Date: May 30, 2006