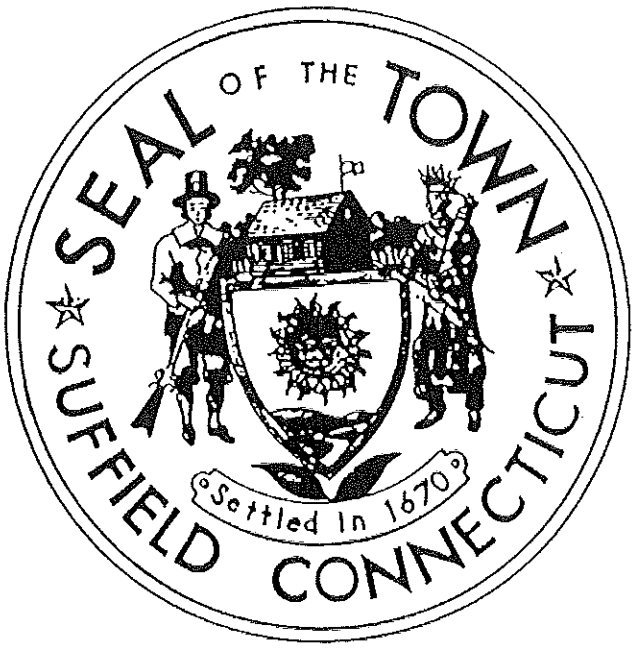
SUFFIELD
CONNECTICUT



ENGINEERING DEPARTMENT
CONSTRUCTION DETAILS

SUFFIELD ENGINEERING DEPARTMENT
CONSTRUCTION DETAILS

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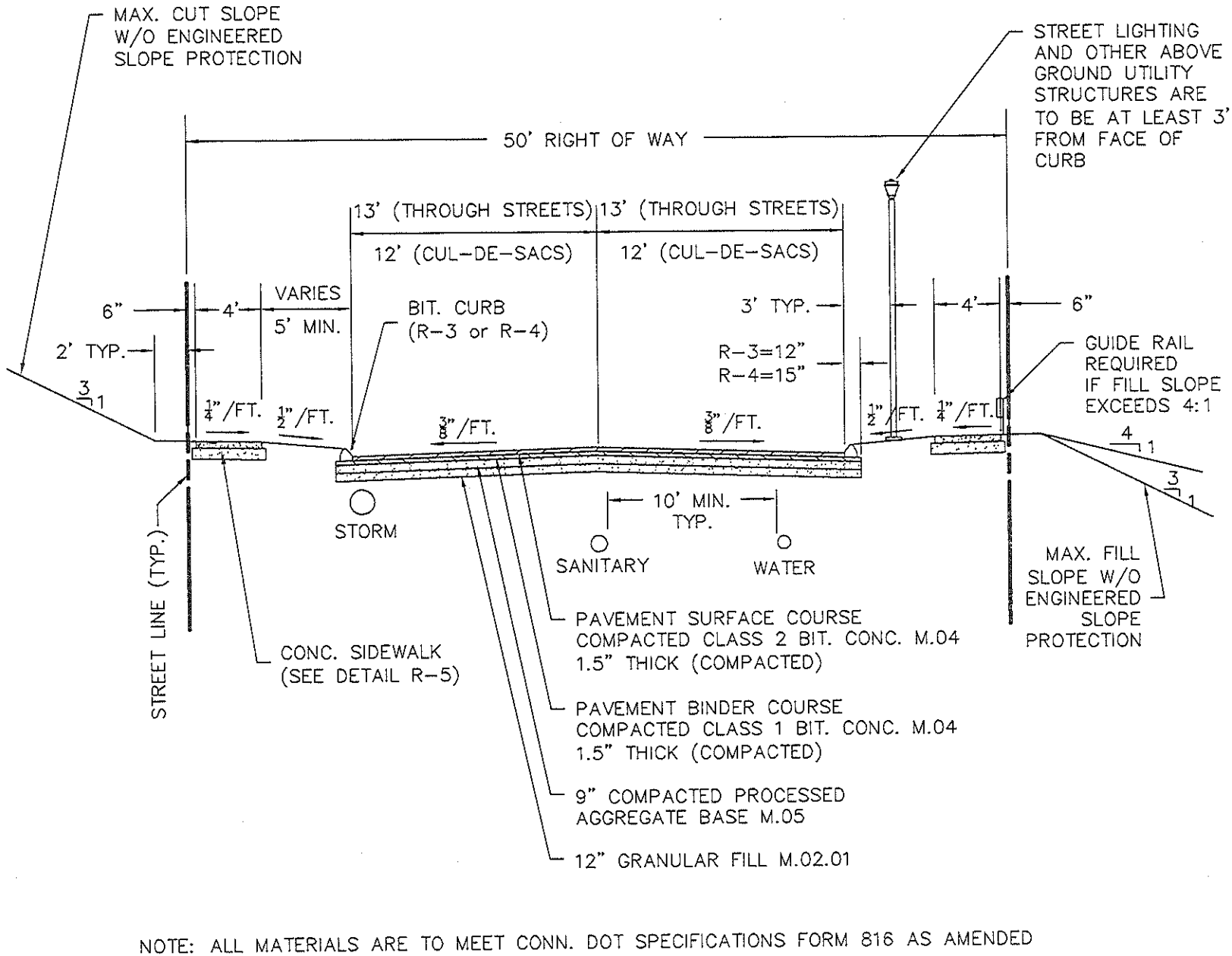
SUFFIELD TOWN ENGINEER
STANDARD DETAIL
FEBRUARY 2010

TYPICAL ROADWAY SECTION

NOT TO SCALE

DETAIL R-1



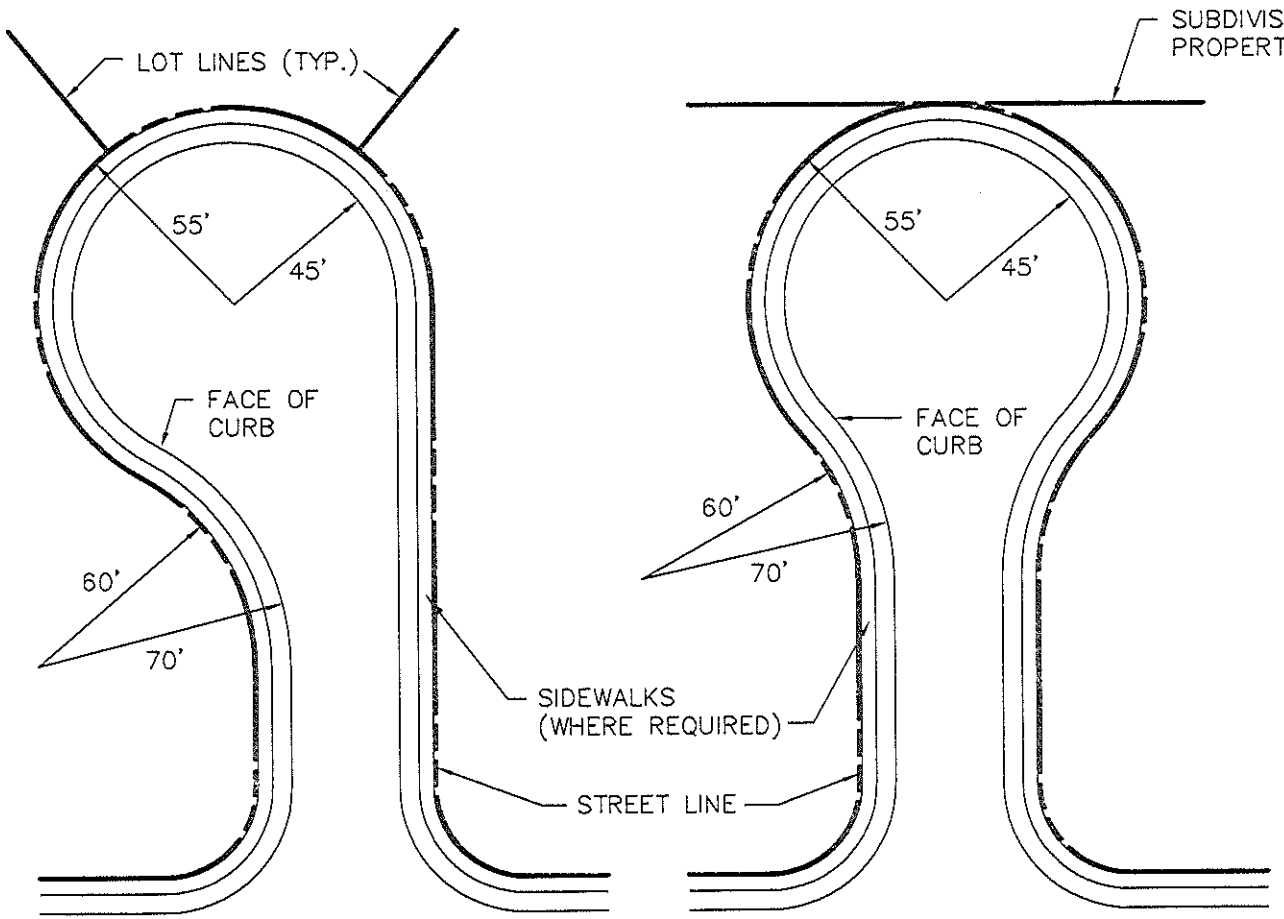
NOTE: ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED

SUFFIELD TOWN ENGINEER
STANDARD DETAIL
FEBRUARY 2010

CUL-DE-SACS

NOT TO SCALE

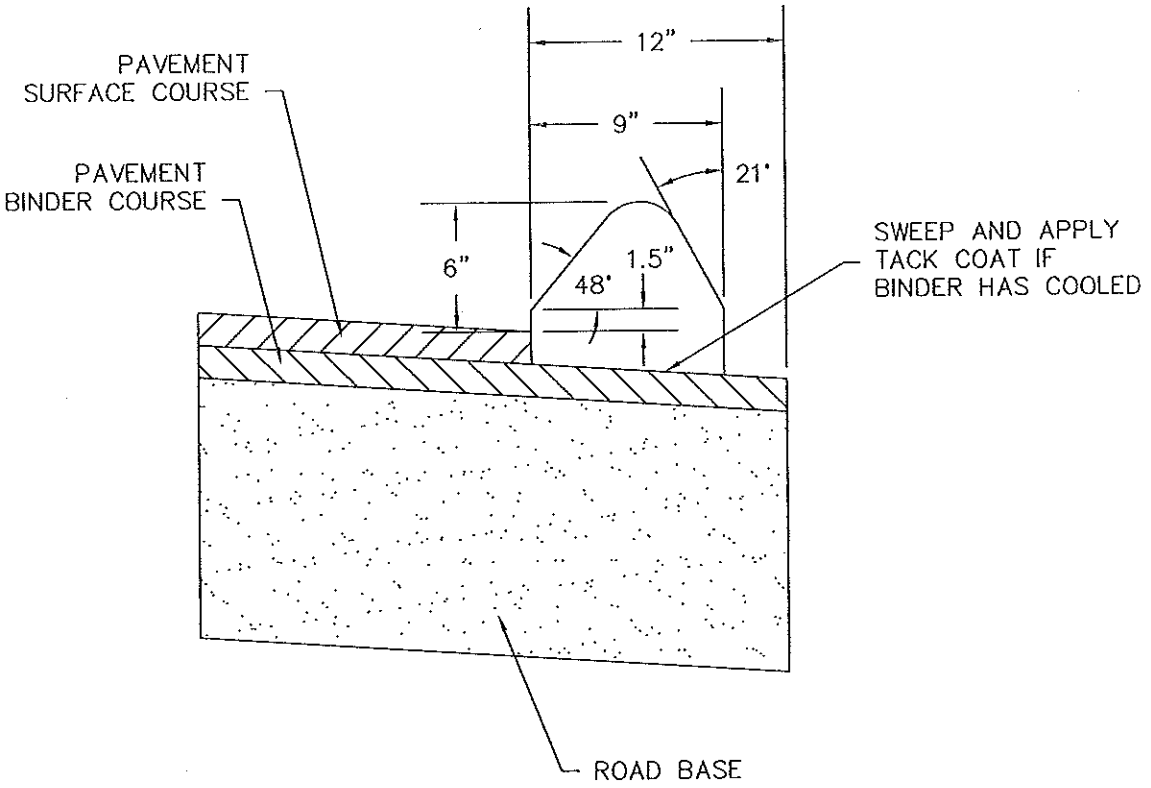
DETAIL R-2



OFFSET CUL-DE-SAC

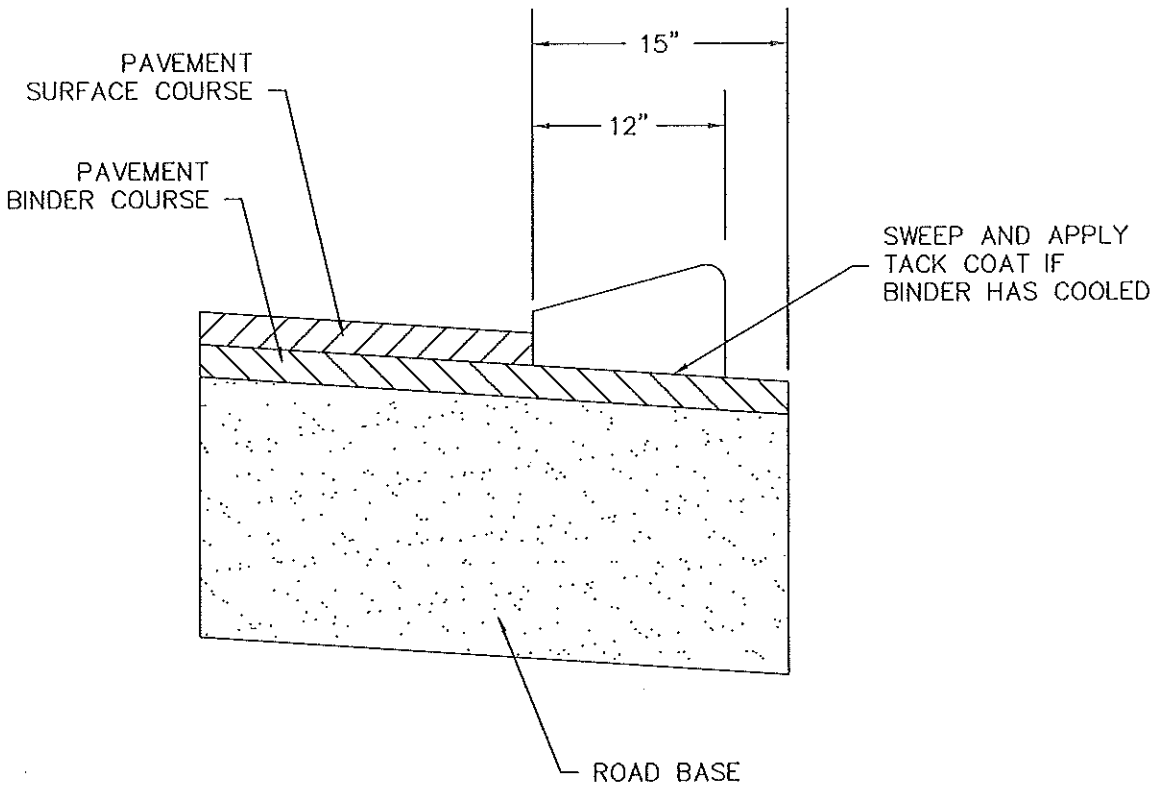
TEAR DROP CUL-DE-SAC

SEE SUBDIVISION REGULATIONS FOR LIMITS ON LENGTH OF CUL-DE-SAC ROADS AND NUMBER OF CURB CUTS PERMITTED BEYOND THE CUL-DE-SAC THROAT.



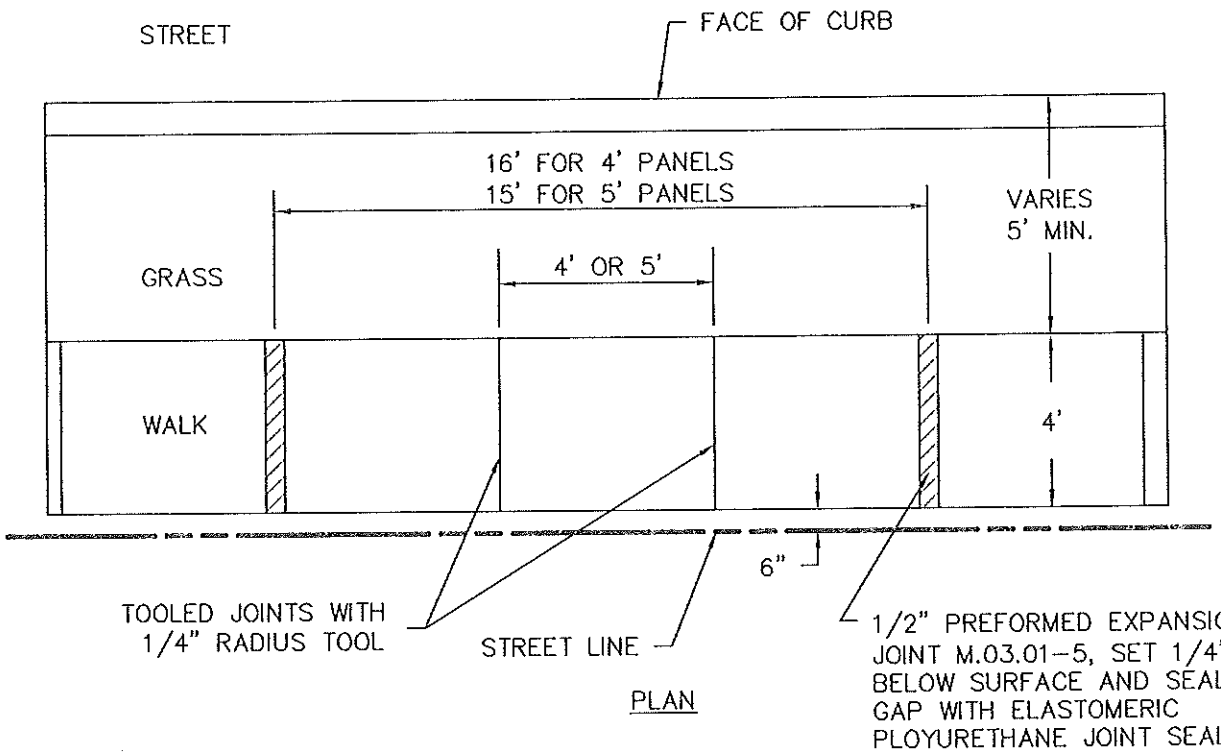
NOTE: ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**BITUMINOUS CONCRETE LIP CURB** NOT TO SCALE	DETAIL R-3

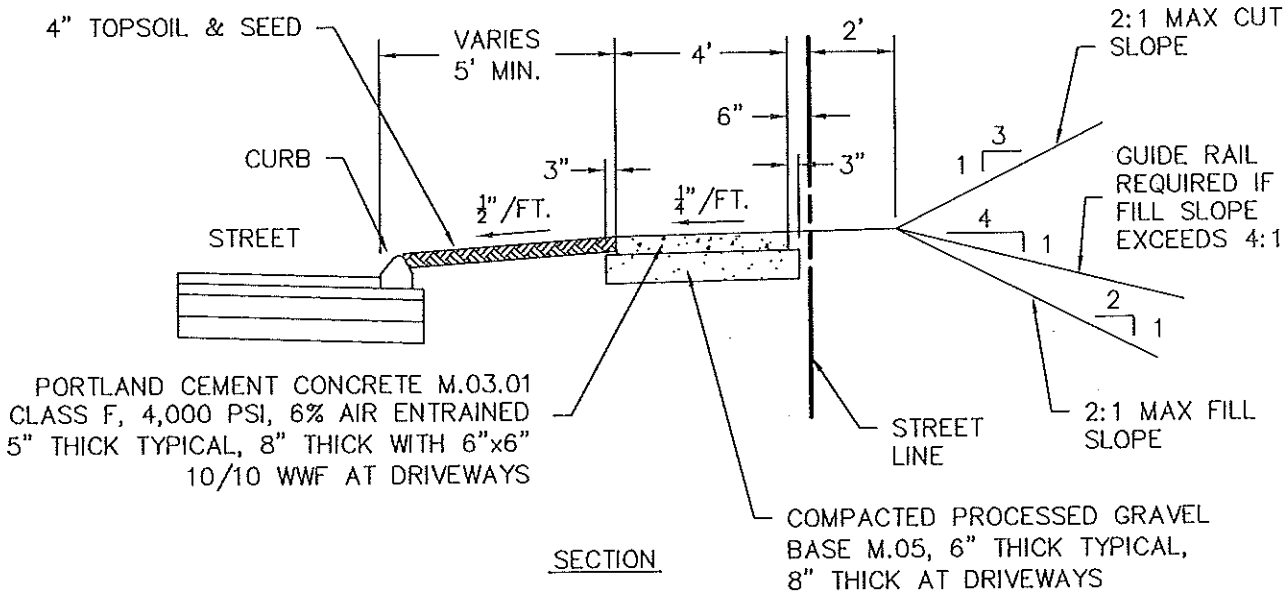


NOTE: ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**BITUMINOUS CONCRETE CAPE COD CURB** NOT TO SCALE	**DETAIL R-4**



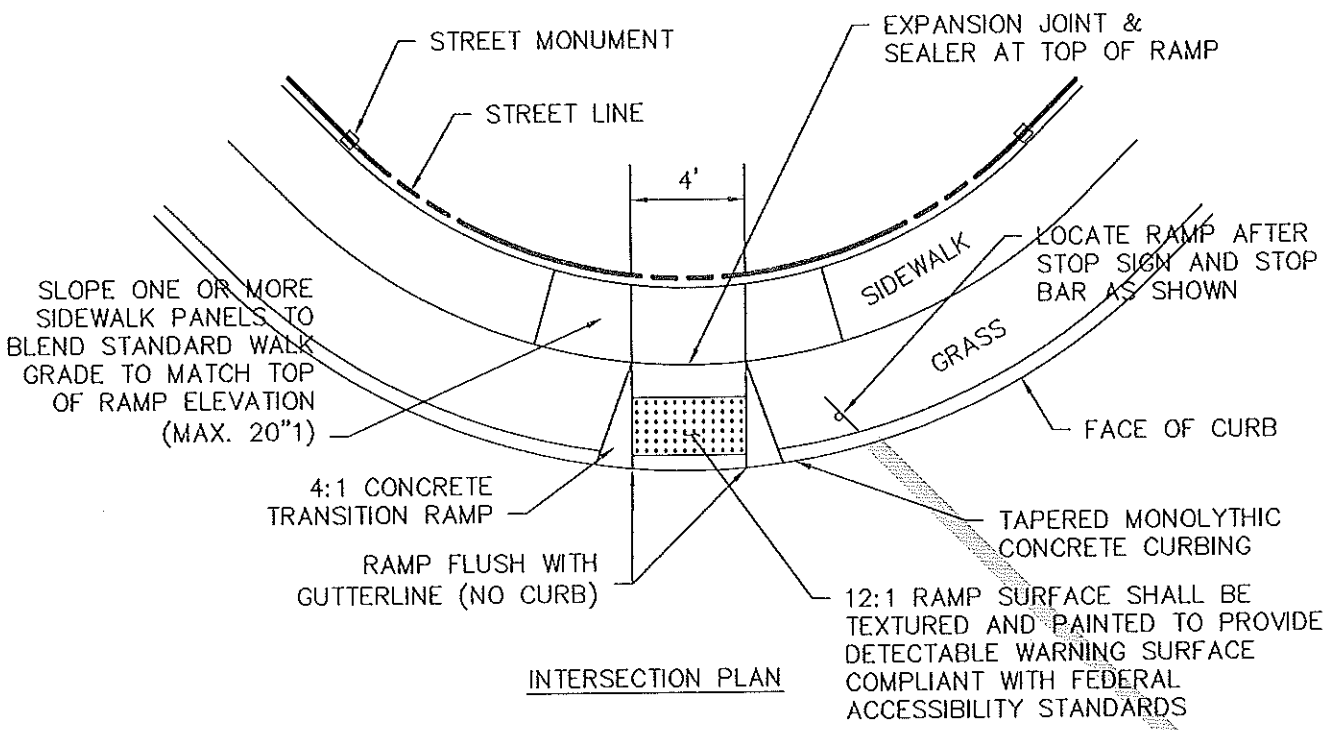
PLAN



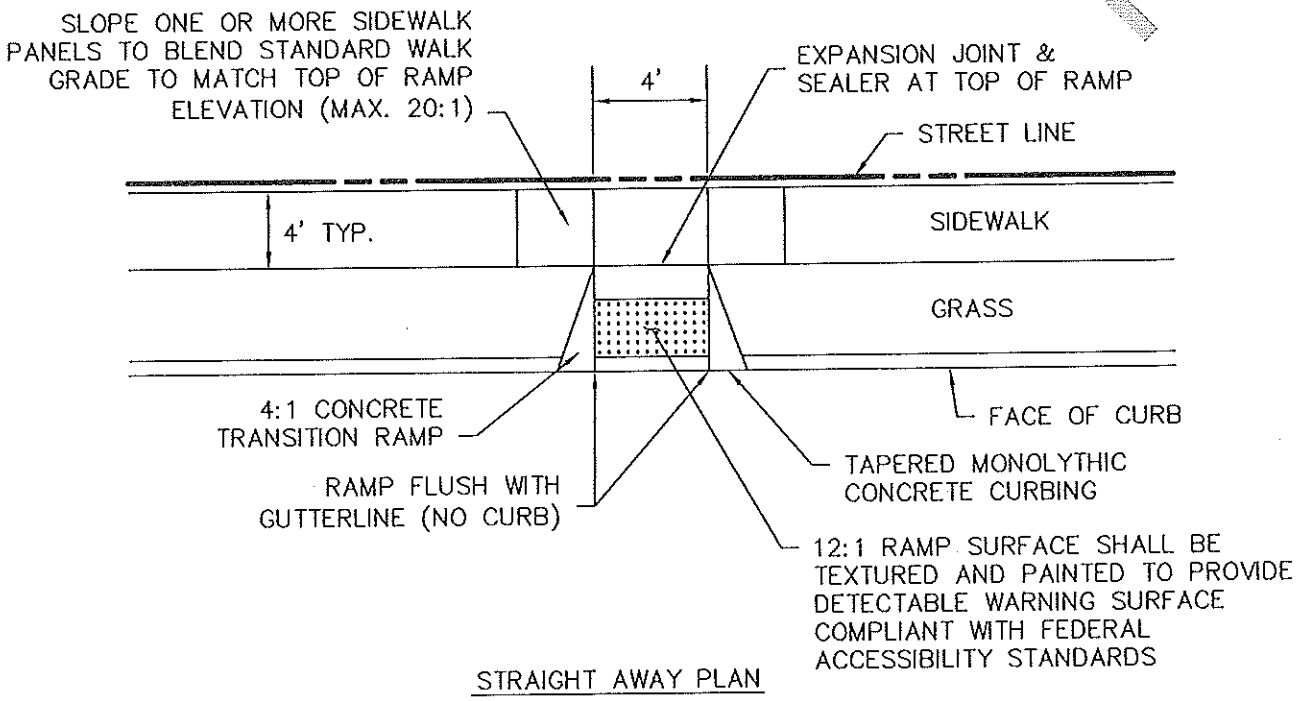
SECTION

NOTE: ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED
SIDEWALK CONSTRUCTION METHODS SHALL CONFORM TO DOT SECTION 9.21.03

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CONCRETE SIDEWALK** NOT TO SCALE	**DETAIL R--5**



INTERSECTION PLAN

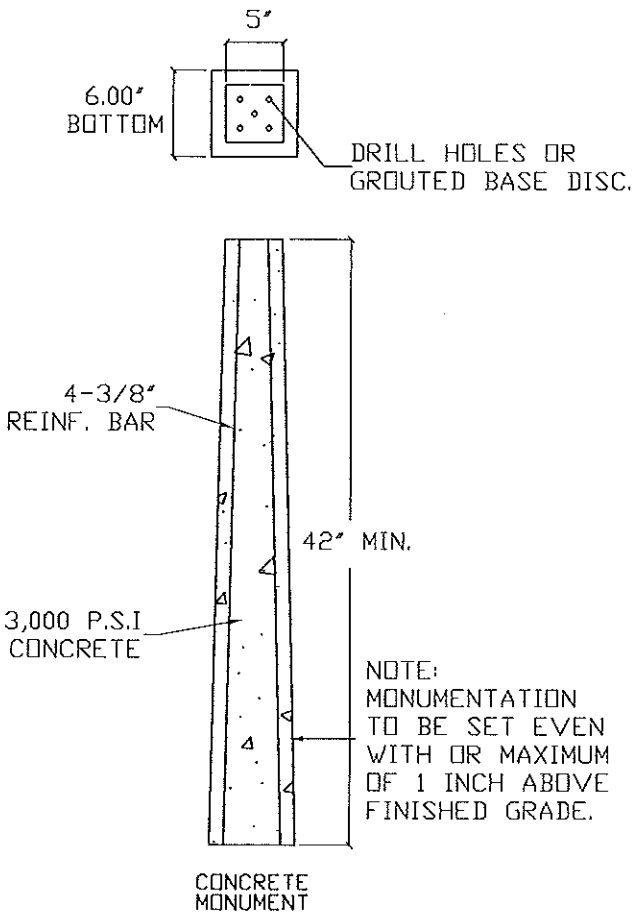


STRAIGHT AWAY PLAN

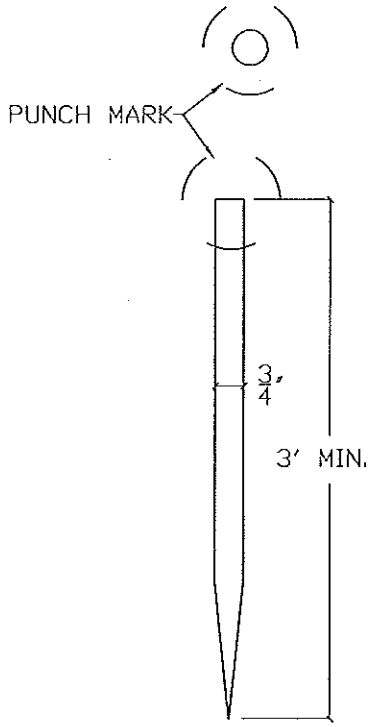
NOTES:

CONSTRUCT RAMPS IN ACCORDANCE WITH CONCRETE SIDEWALK DETAIL R-5
DRAINAGE DESIGN IN THE VICINITY OF RAMPS SHALL BE AN INTEGRAL PART OF THE RAMP DESIGN.
NO DRAINAGE STRUCTURES SHALL BE PLACED WITHIN THE LIMITS OF THE RAMP.
WHERE FEASIBLE, GUTTER FLOW SHOULD BE INTERCEPTED BEFORE OR DIRECTED AWAY FROM RAMPS.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**HANDICAP RAMPS** NOT TO SCALE	**DETAIL R-6**

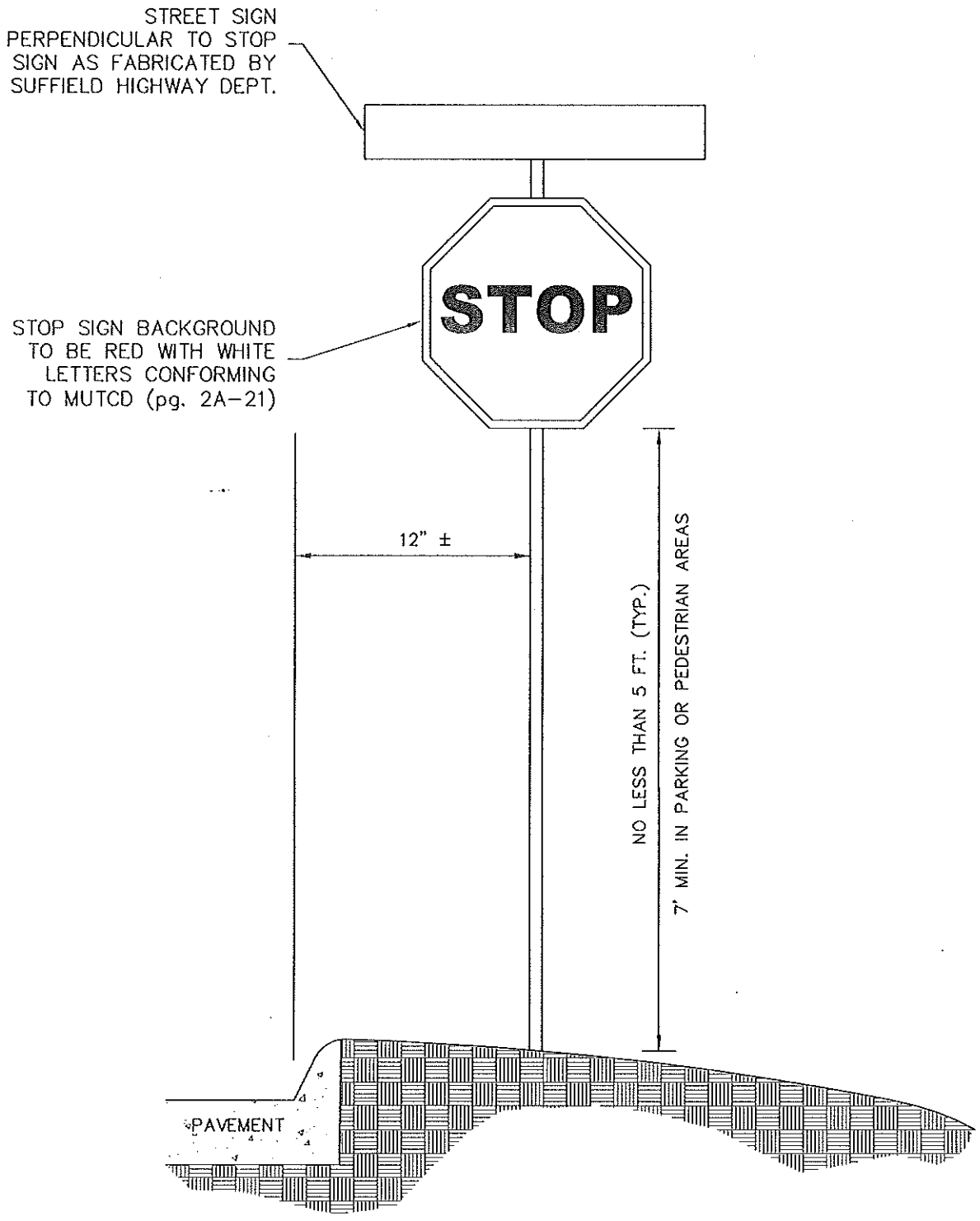


CONCRETE
MONUMENT

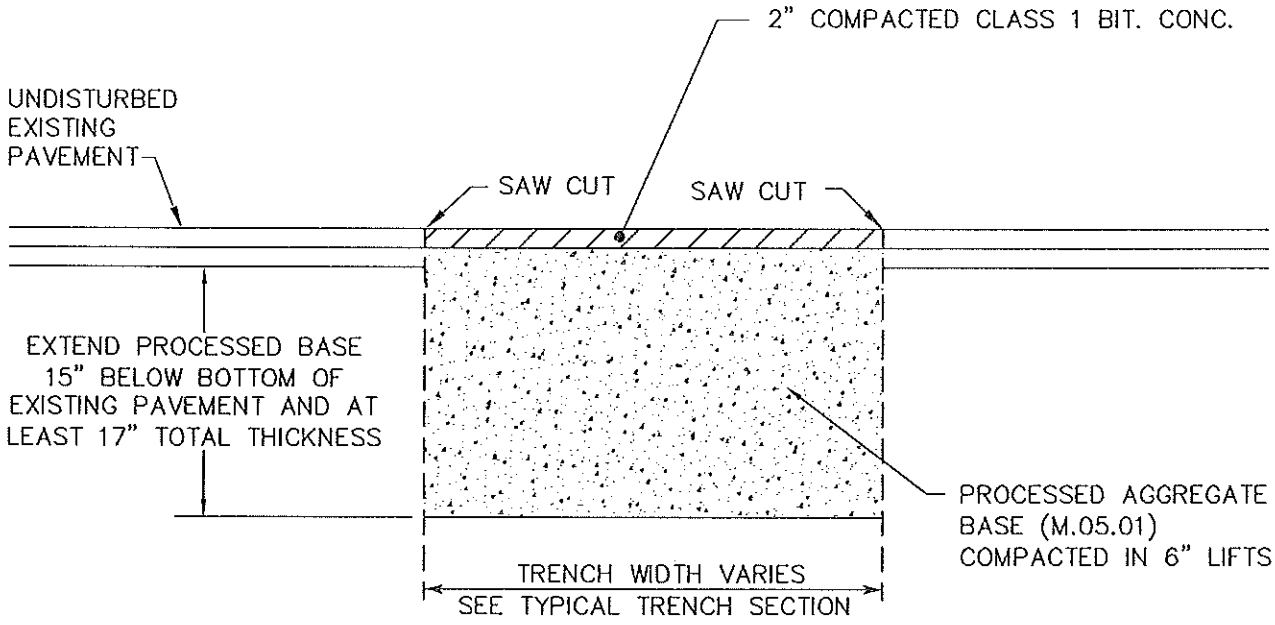


IRON PIN OR IRON PIPE

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**MONUMENTATION** NOT TO SCALE	DETAIL R-7

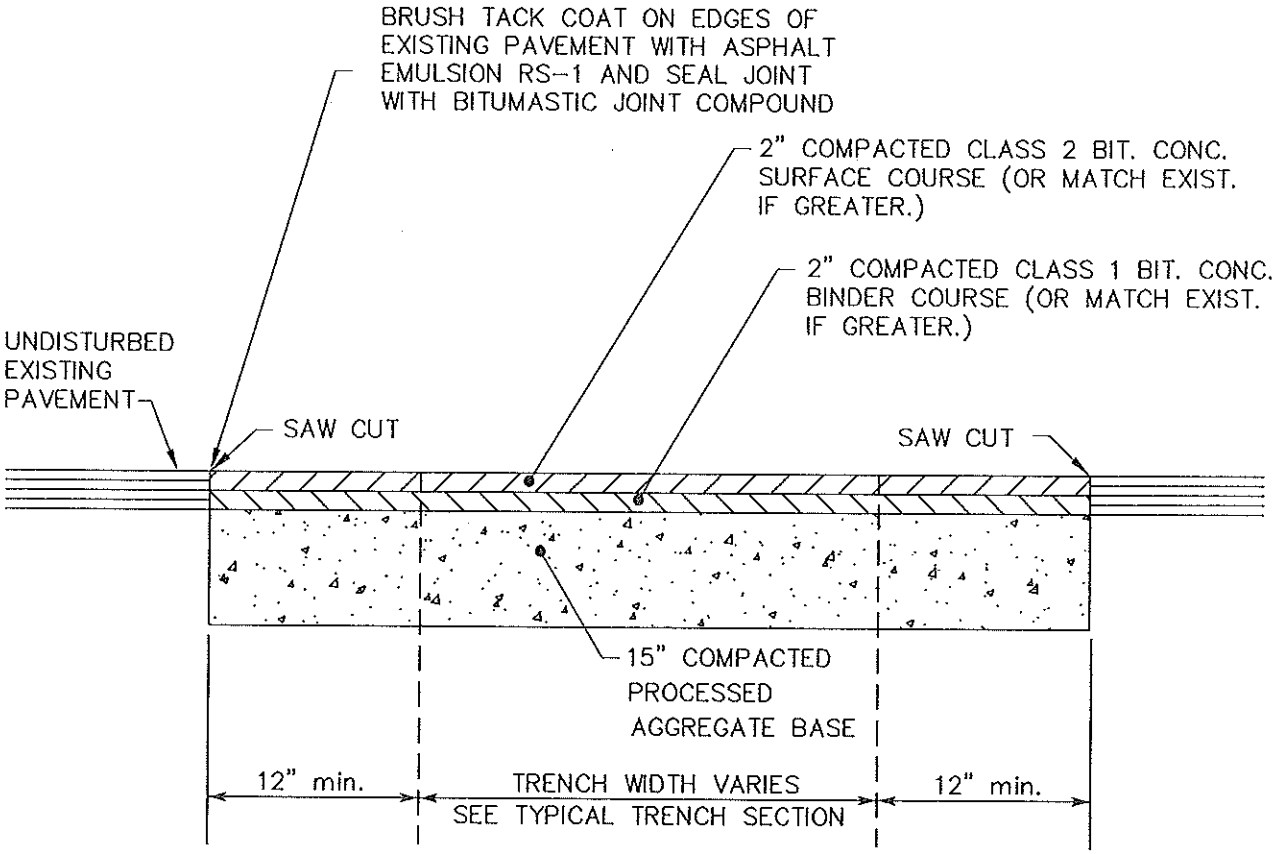


SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**STOP/STREET SIGN** NOT TO SCALE	DETAIL R-8



NOTE: ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TEMPORARY PAVEMENT PATCH** NOT TO SCALE	DETAIL R--9

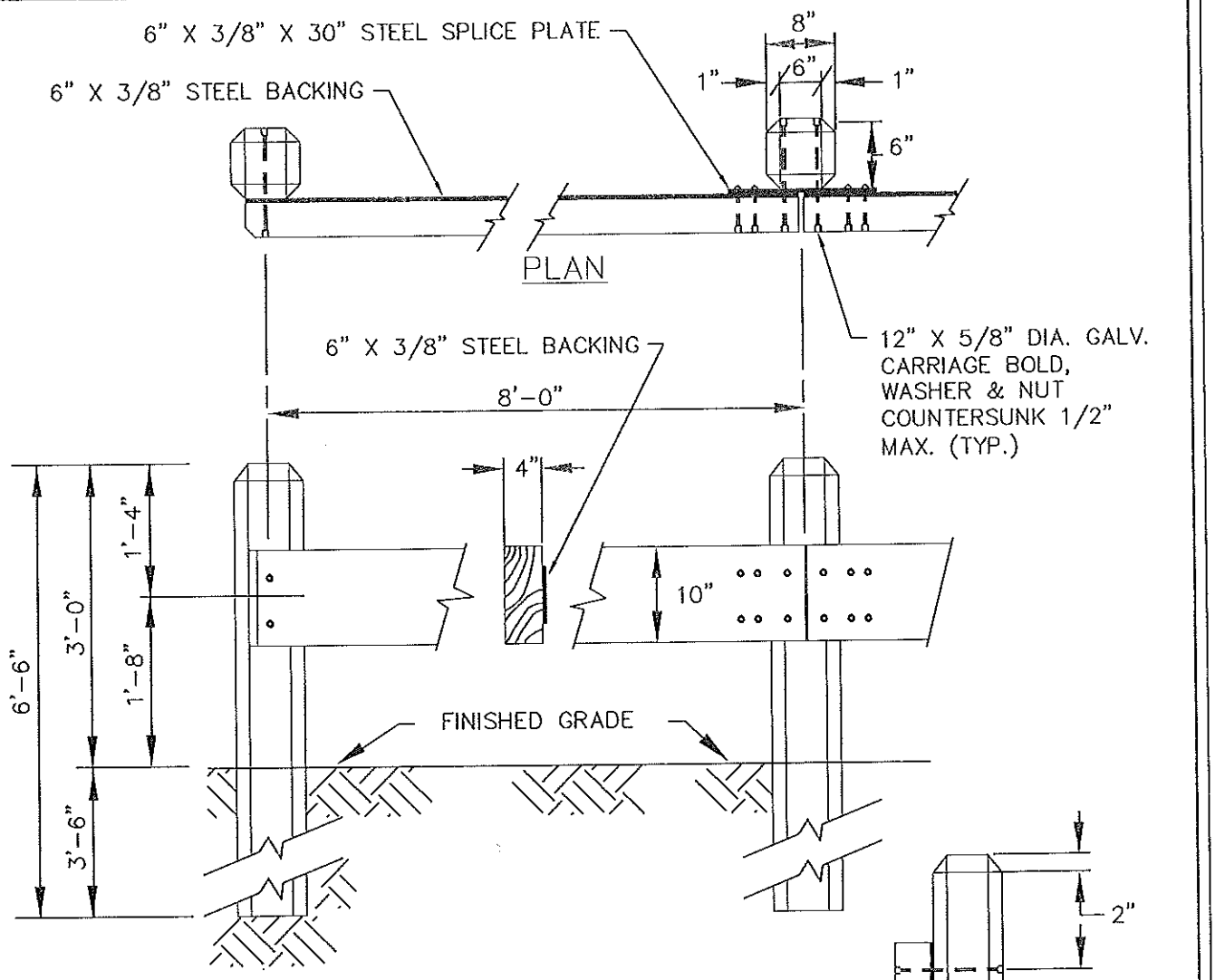


NOTES:

1. All saw cut and sealed joints to be either parallel with, or perpendicular to, the center-line of the pipe.

NOTE: ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED

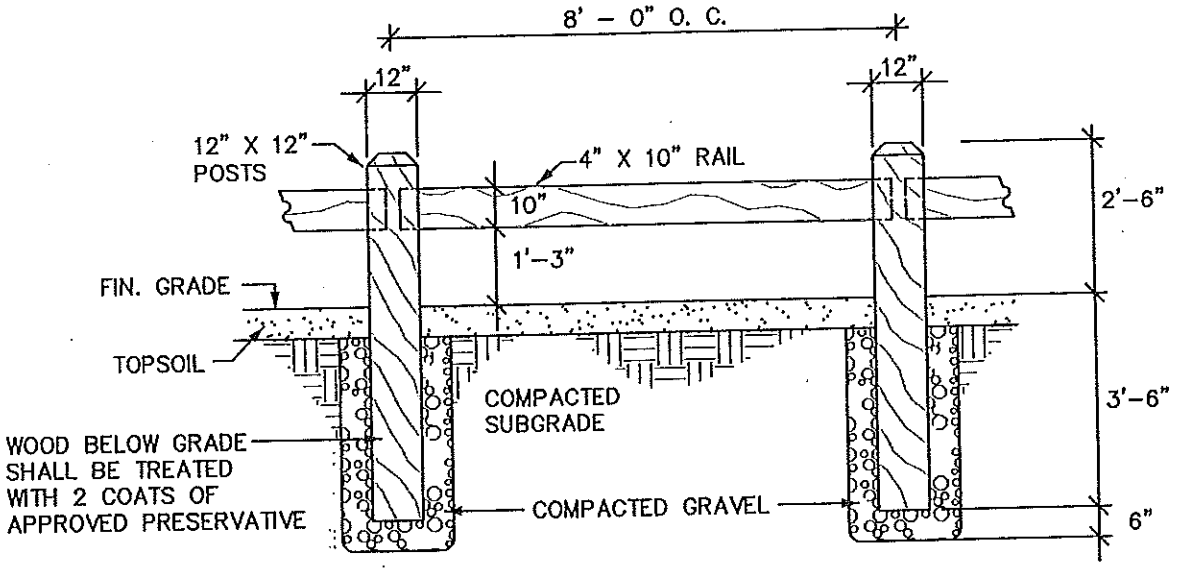
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**PERMANENT PAVEMENT PATCH** NOT TO SCALE	DETAIL R-10

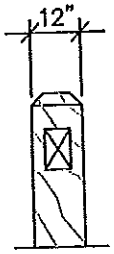


NOTES:

1. TIMBER RAIL SIMILAR TO DOT MERRITT PARKWAY TIMBER RAIL EXCEPT POSTS ARE ALSO TIMBER. THE MERRITT PARKWAY RAIL MAY BE USED AS AN ALTERNATIVE TO THIS CONFIGURATION.
2. ALL TIMBER SHALL BE PRESSURE TREATED.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TIMBER GUIDE RAIL** NOT TO SCALE	**DETAIL R-11**



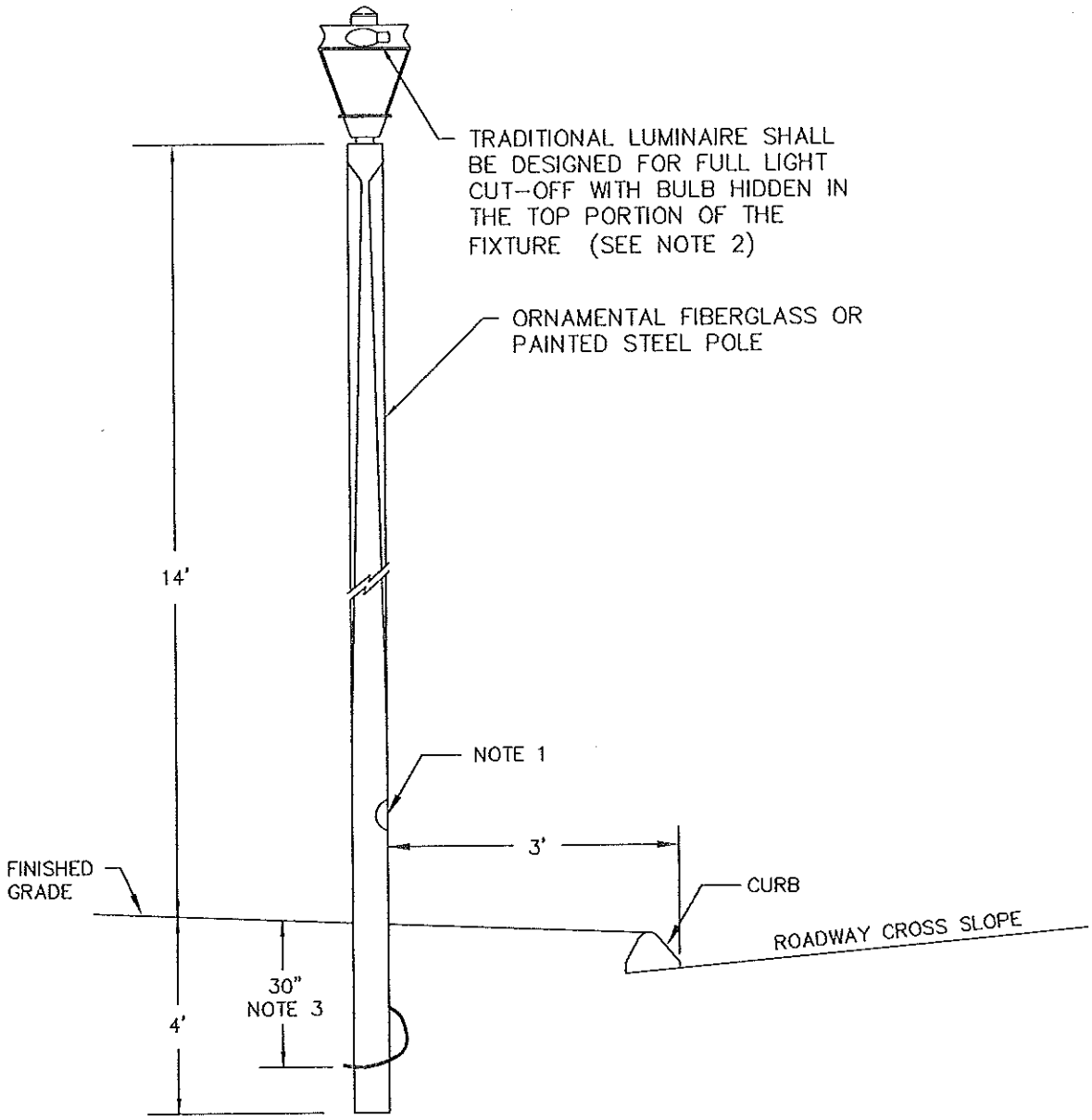


SECTION

NOTE: ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE

ELEVATION

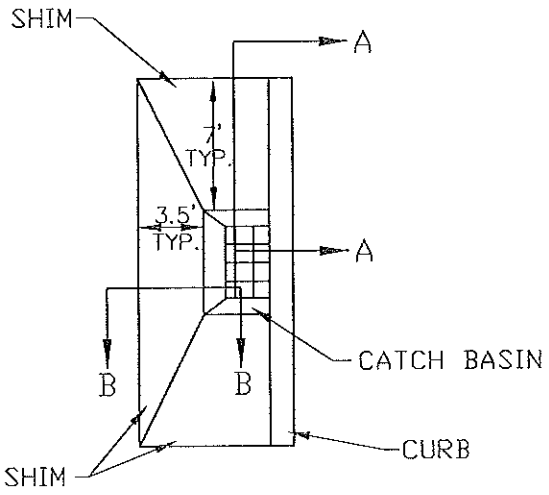
WOOD GUIDE RAIL

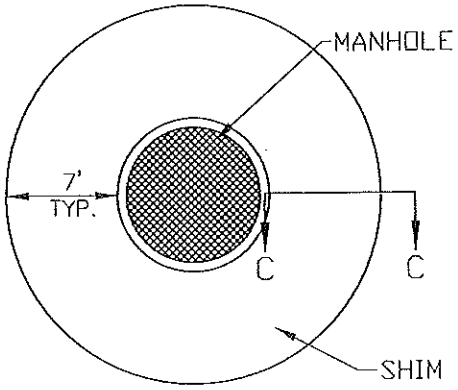


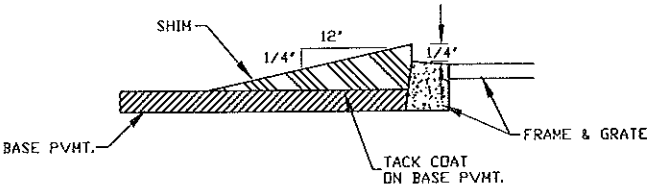
NOTES:

1. *POLES TO BE SET SO THAT WIRING EXIT FACES THE ROAD*
2. *ORIENT FIXTURE TO DIRECT GREATEST LIGHT DISTRIBUTION TOWARD STREET SIDE AND NOT TOWARD BUILDINGS.*
3. *EXTEND DIRECT BURIED CABLE FAR ENOUGH INTO THE POLE TO MAKE THE CONNECTION AT THE HANDHOLE IN THE POLE. EXTEND #14, 2/C COPPER STREET LIGHT CABLE FROM THIS CONNECTION TO THE LUMINAIRE.*
4. *LIGHT FIXTURE AND POLE SHALL CONFORM TO CL&P STANDARDS ACCEPTABLE FOR LONGTERM MAINTENANCE SERVICE. VERIFICATION OF CL&P APRPOVAL SHALL BE PROVIDED PRIOR TO TOWN ACCEPTANCE OF IMPROVEMENTS.*

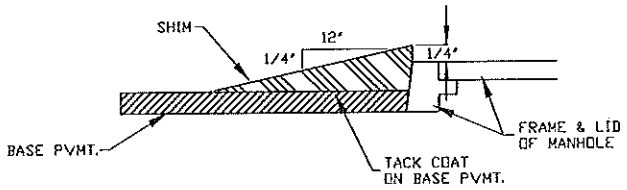
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TRADITIONAL STREET LUMINAIRE** NOT TO SCALE	DETAIL R-12



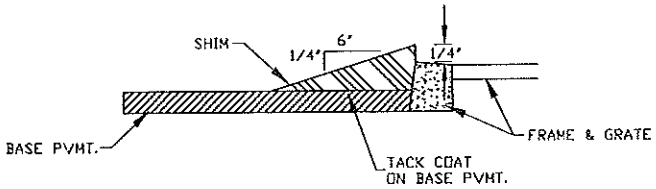




A-A



C-C



B-B

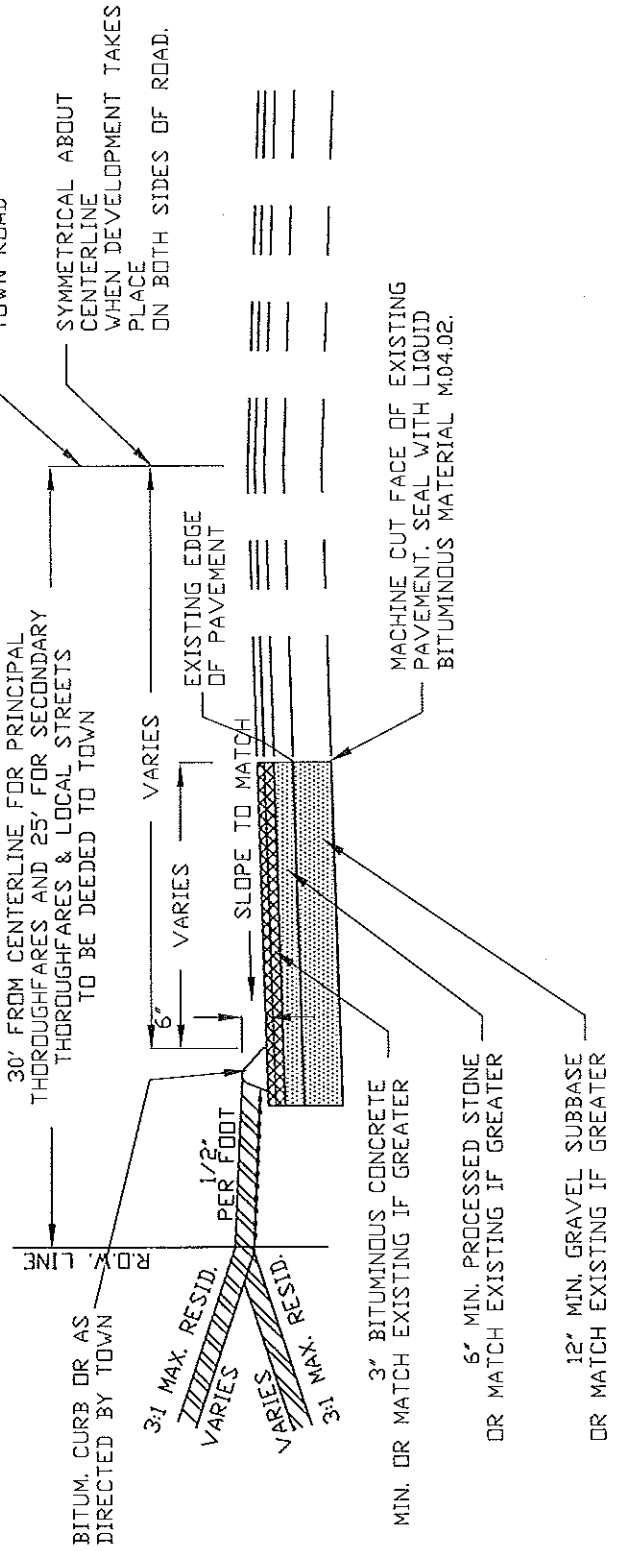
NOTES:

1. MATERIAL TO BE BITUMINOUS CONCRETE CLASS 3 OR APPROVED EQUAL PER CT. D.O.T. SPEC. FORM 814A AS AMENDED.

2. WIDTH OF SHIMS AS SHOWN ON PLAN VIEWS ARE BASED ON TYPICAL 1-1/2" EXPOSURE OF STRUCTURE. ACTUAL WIDTHS MAY VARY BASED ON FIELD CONDITIONS.

3. TACK COAT TO BE APPLIED PRIOR TO PLACEMENT OF SHIM. COATING TO BE APPLIED PER M04.01.1d4

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TEMPORARY SHIM DETAILS** NOT TO SCALE	**DETAIL R-13**

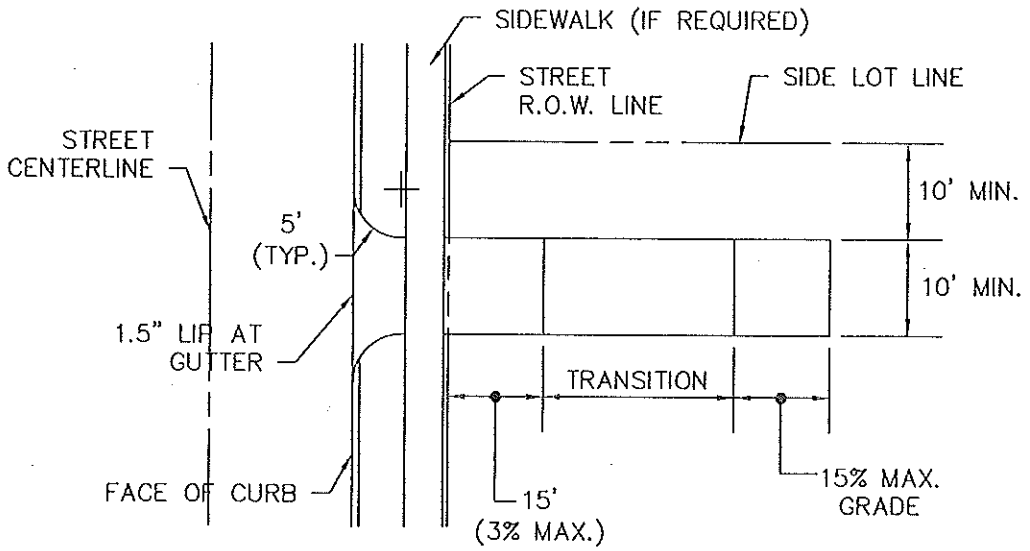


SUFFIELD TOWN ENGINEER
STANDARD DETAIL
FEBRUARY 2010

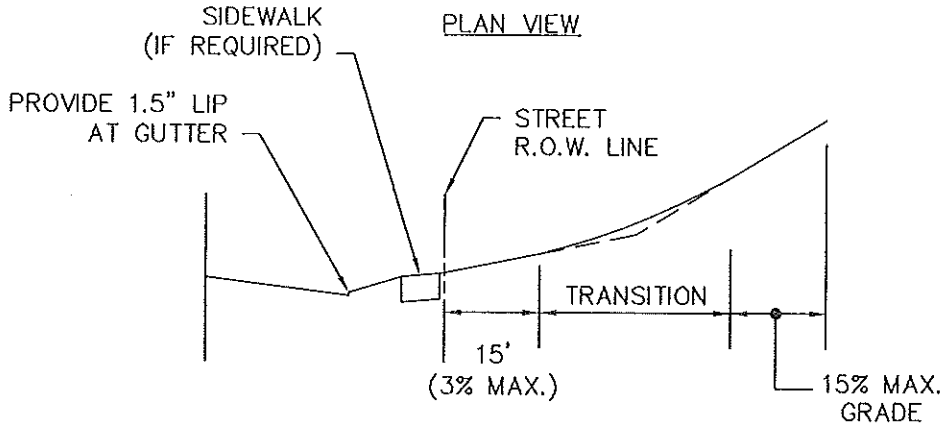
ROADWAY WIDENING

NOT TO SCALE

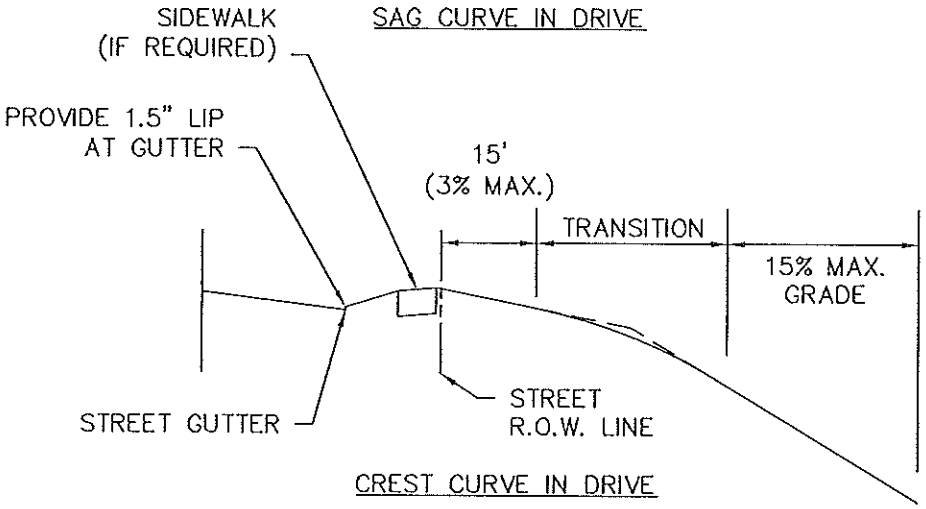
DETAIL R-14



PLAN VIEW



SAG CURVE IN DRIVE



CREST CURVE IN DRIVE

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DRIVEWAY** NOT TO SCALE	DETAIL R--15

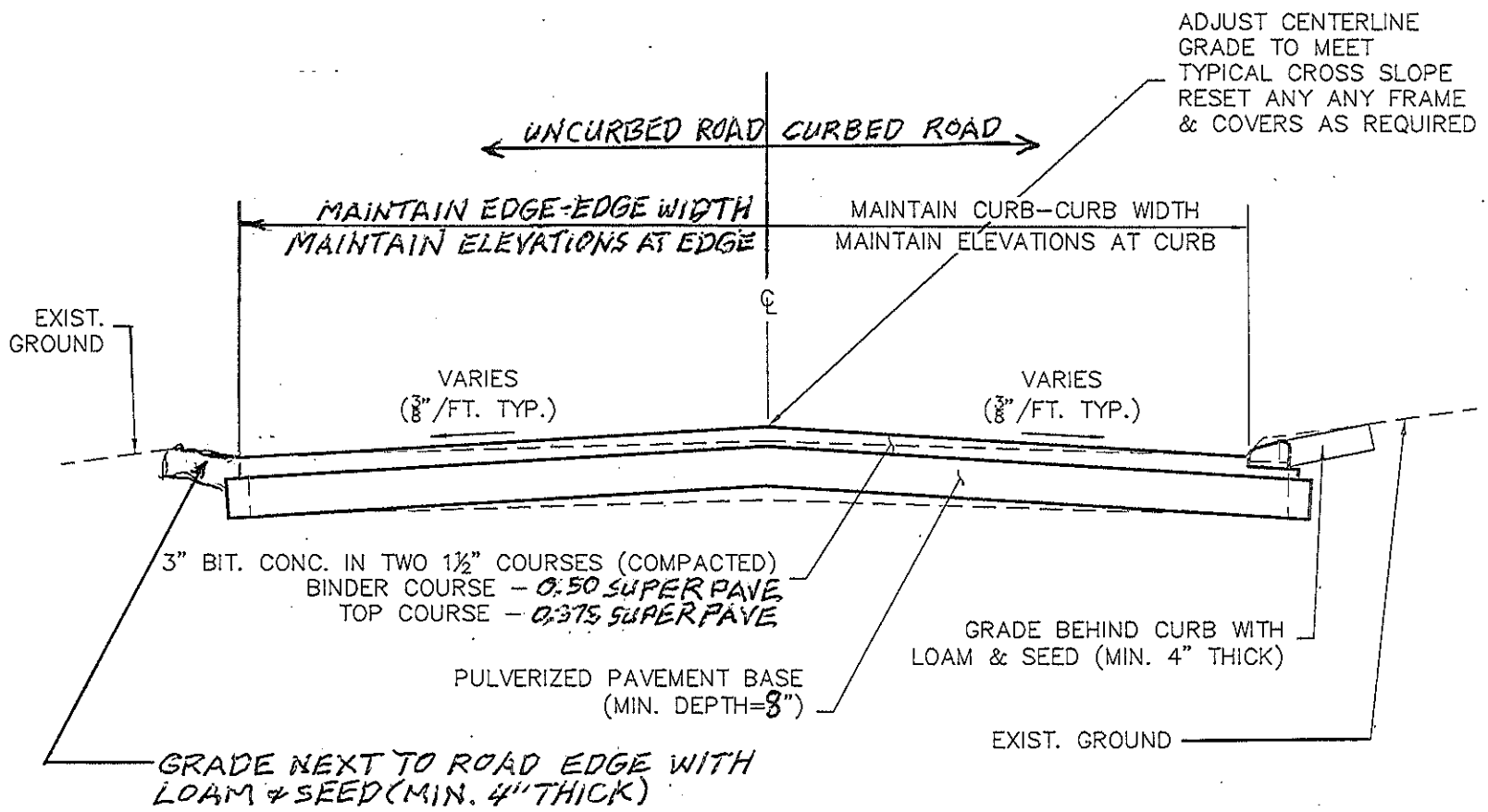
SUFFIELD TOWN ENGINEER
STANDARD DETAIL
FEBRUARY 2010

ROADWAY RECLAMATION

NOT TO SCALE

DETAIL R-16

REVISED APRIL 2014

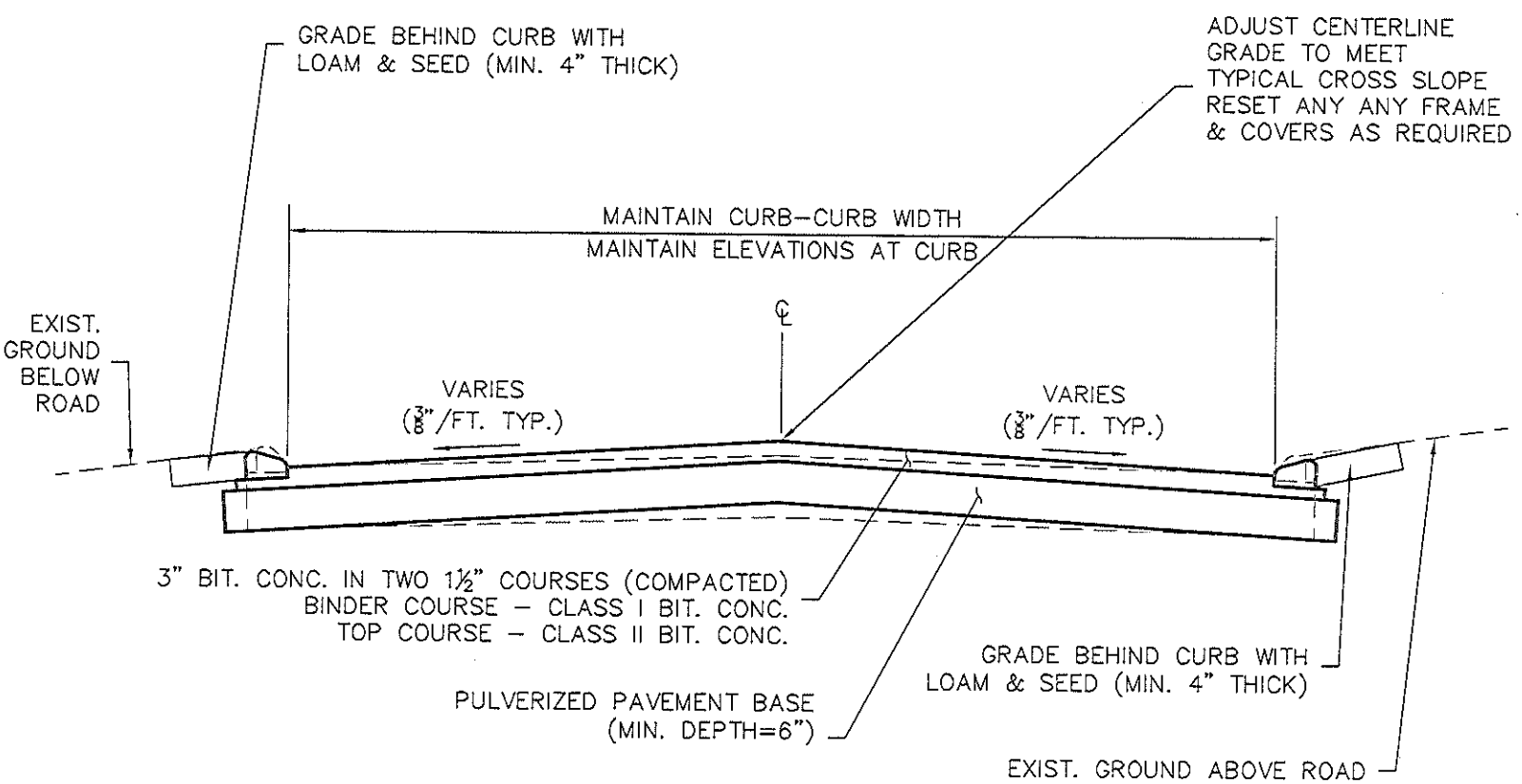


SUFFIELD TOWN ENGINEER
STANDARD DETAIL
FEBRUARY 2010

ROADWAY RECLAMATION

NOT TO SCALE

DETAIL R-16

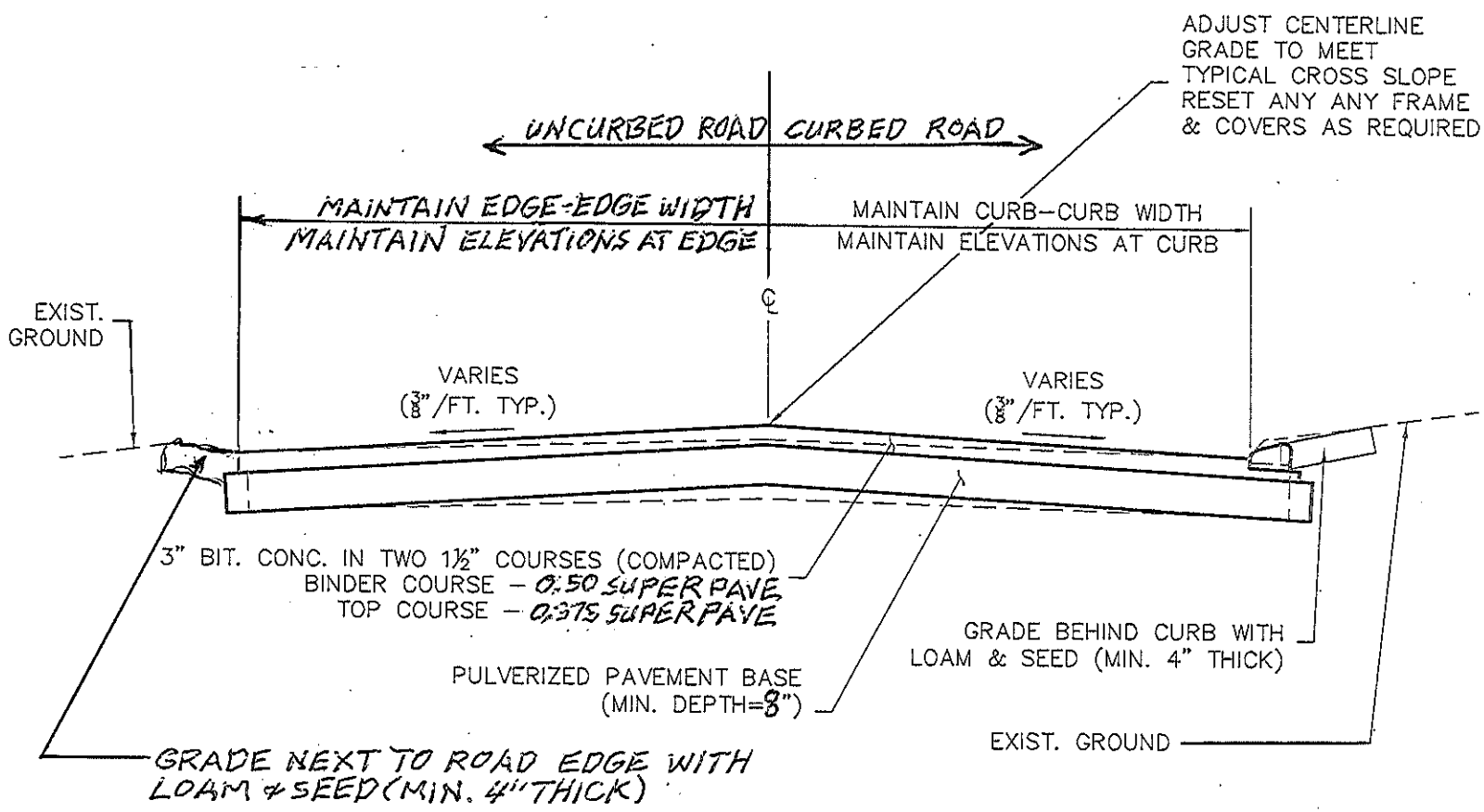


SUFFIELD TOWN ENGINEER
STANDARD DETAIL
FEBRUARY 2010

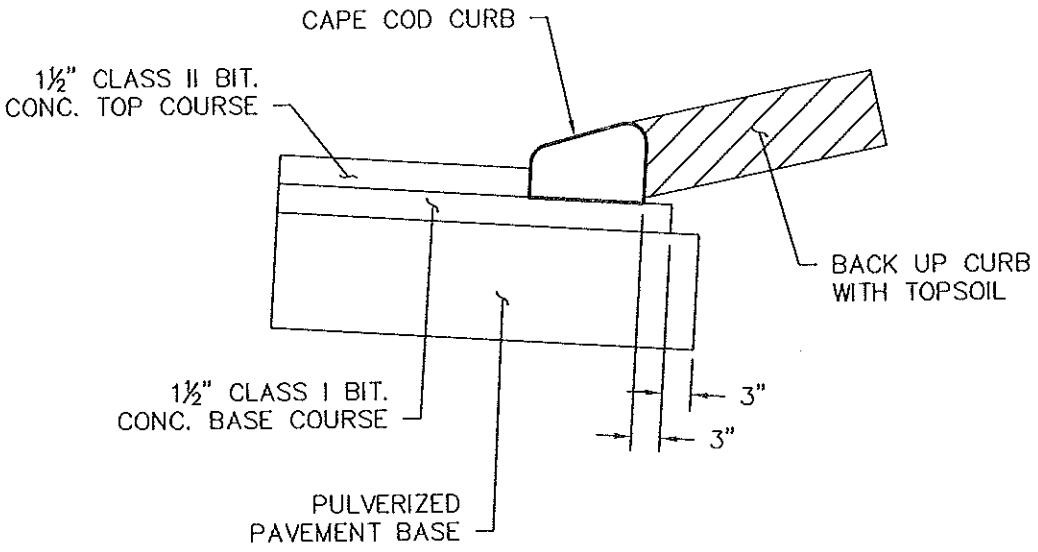
ROADWAY RECLAMATION

NOT TO SCALE

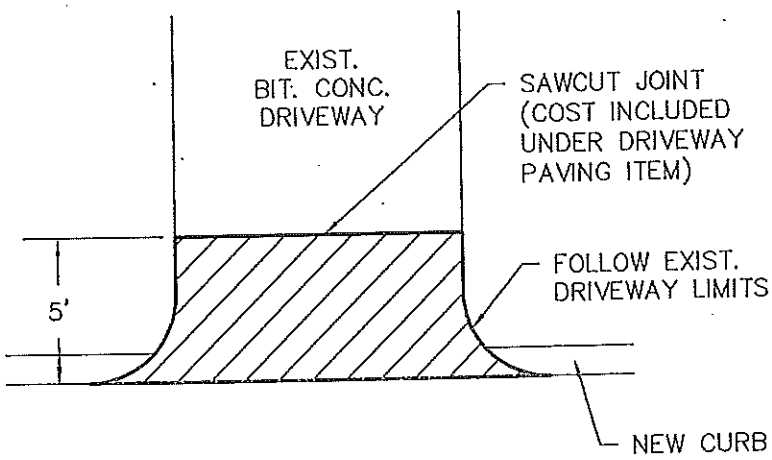
DETAIL R-16



REVISED APRIL 2014



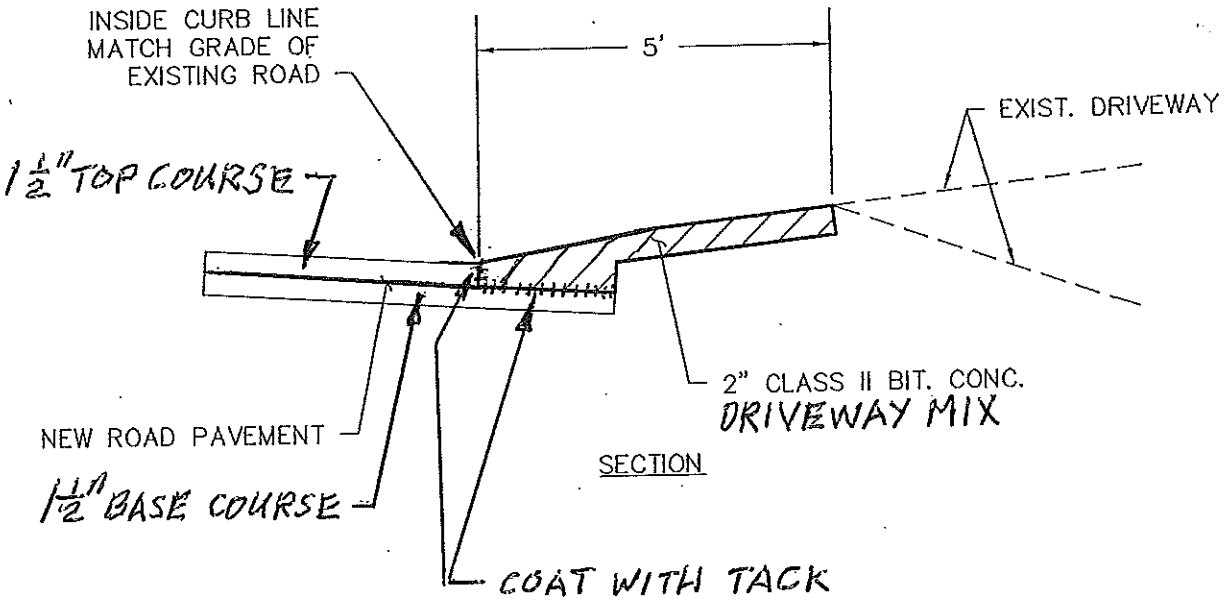
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CURB RECLAMATION** NOT TO SCALE	DETAIL R-17



PLAN

NOTE: DO NOT REPLACE DRIVEWAYS IN GOOD CONDITION. (SEE PLAN NOTES)

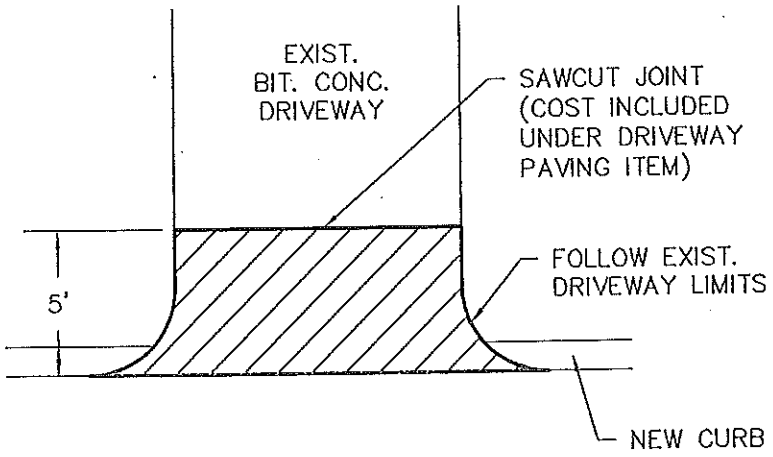
Note: For all driveways, the first 2 feet of the new driveway apron shall slope down to the road edge.



SECTION

REVISED AUGUST 2012

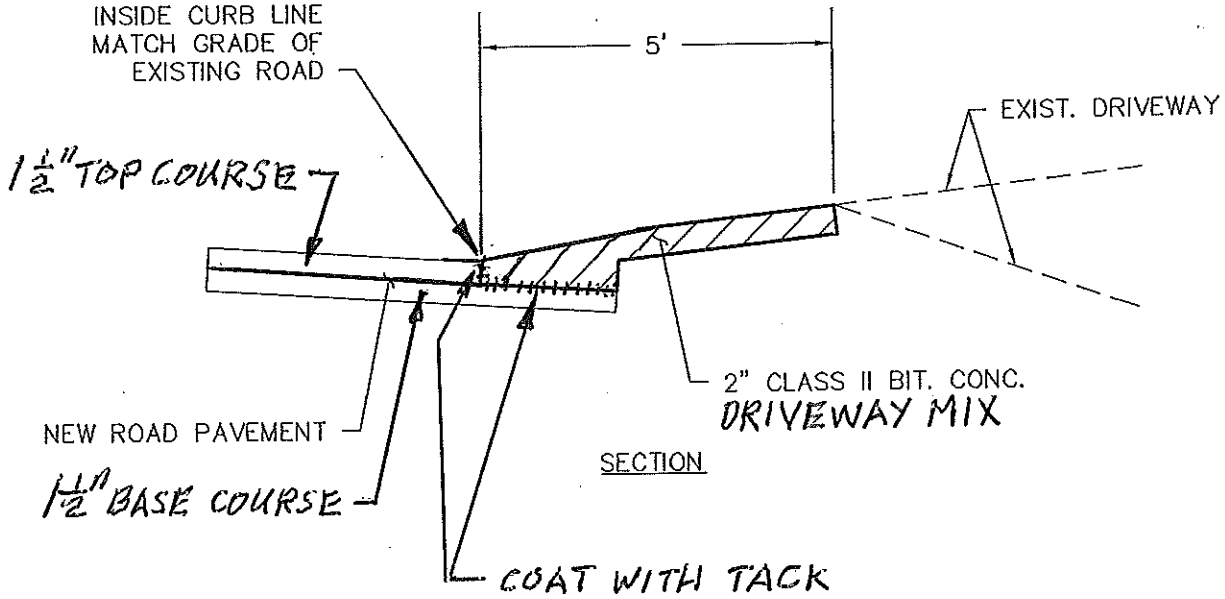
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DRIVEWAY RECLAMATION** NOT TO SCALE	DETAIL R-18



PLAN

NOTE: DO NOT REPLACE DRIVEWAYS IN GOOD CONDITION. (SEE PLAN NOTES)

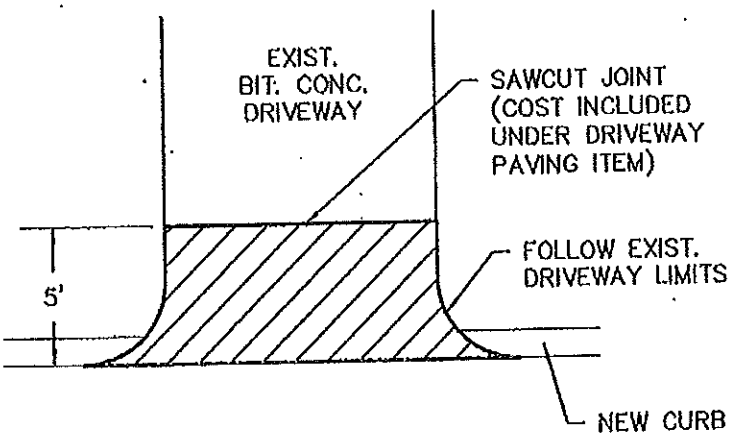
Note: For all driveways, the first 2 feet of the new driveway apron shall slope down to the road edge.



SECTION

REVISED AUGUST 2012

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DRIVEWAY RECLAMATION** NOT TO SCALE	**DETAIL R-18**



PLAN

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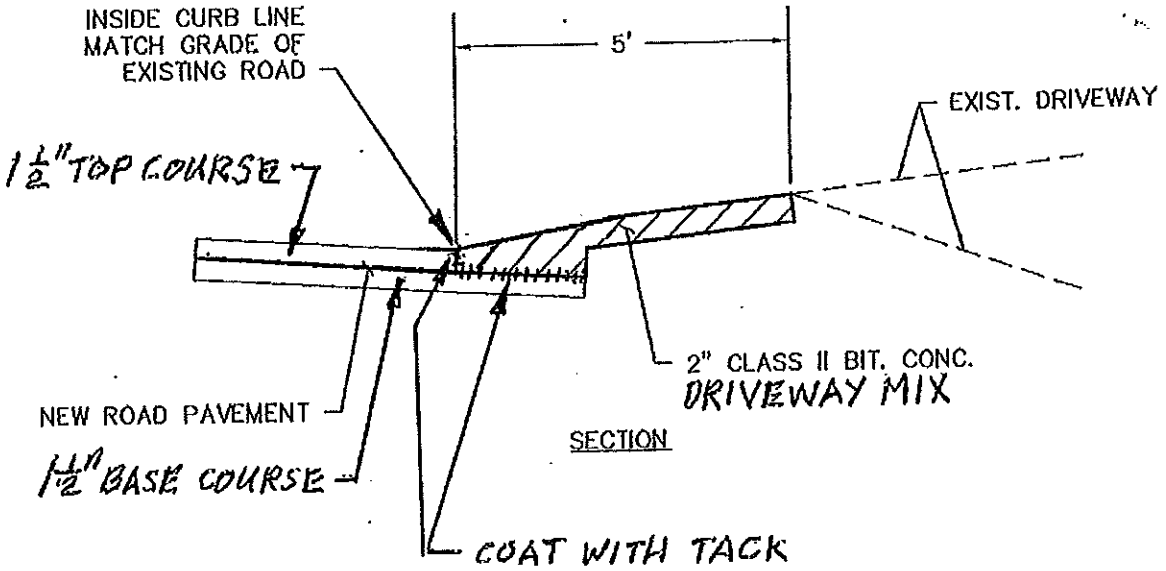
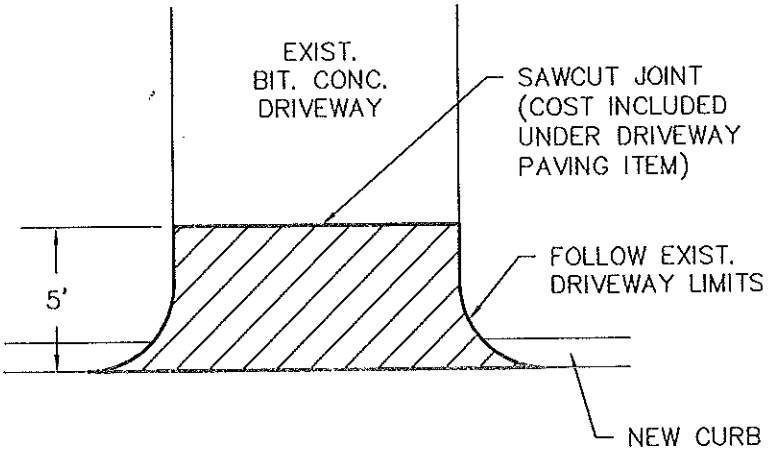
Note: For all driveways, the first 2 feet of the new driveway apron shall slope down to the road edge.



SECTION

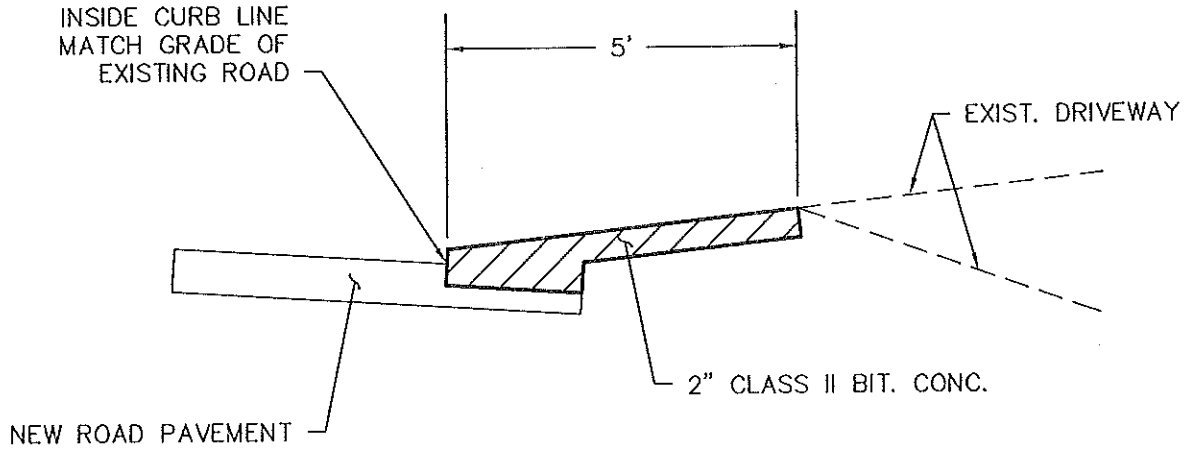
REVISED AUGUST 2012

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DRIVEWAY RECLAMATION** NOT TO SCALE	DETAIL R-18



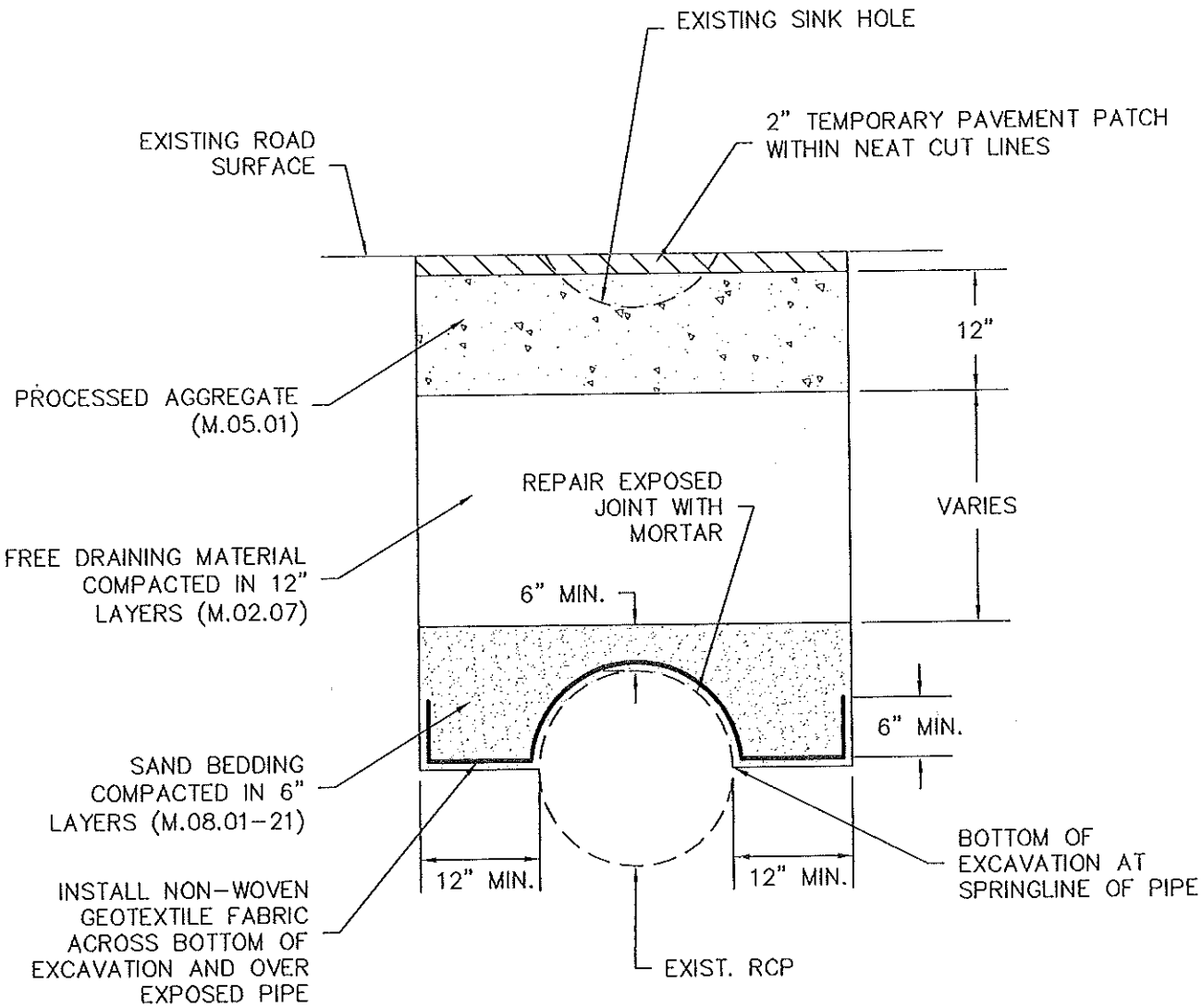
PLAN

NOTE: DO NOT REPLACE DRIVEWAYS IN GOOD CONDITION. (SEE PLAN NOTES)

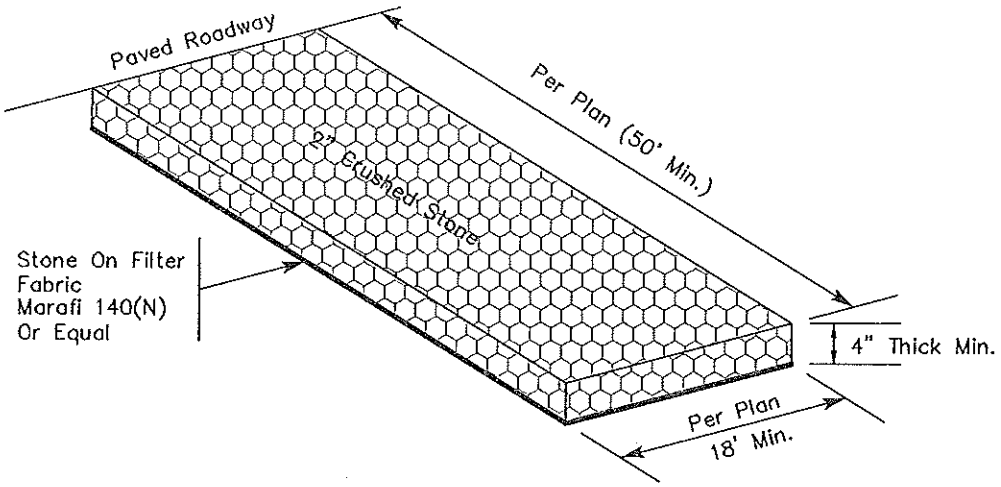


SECTION

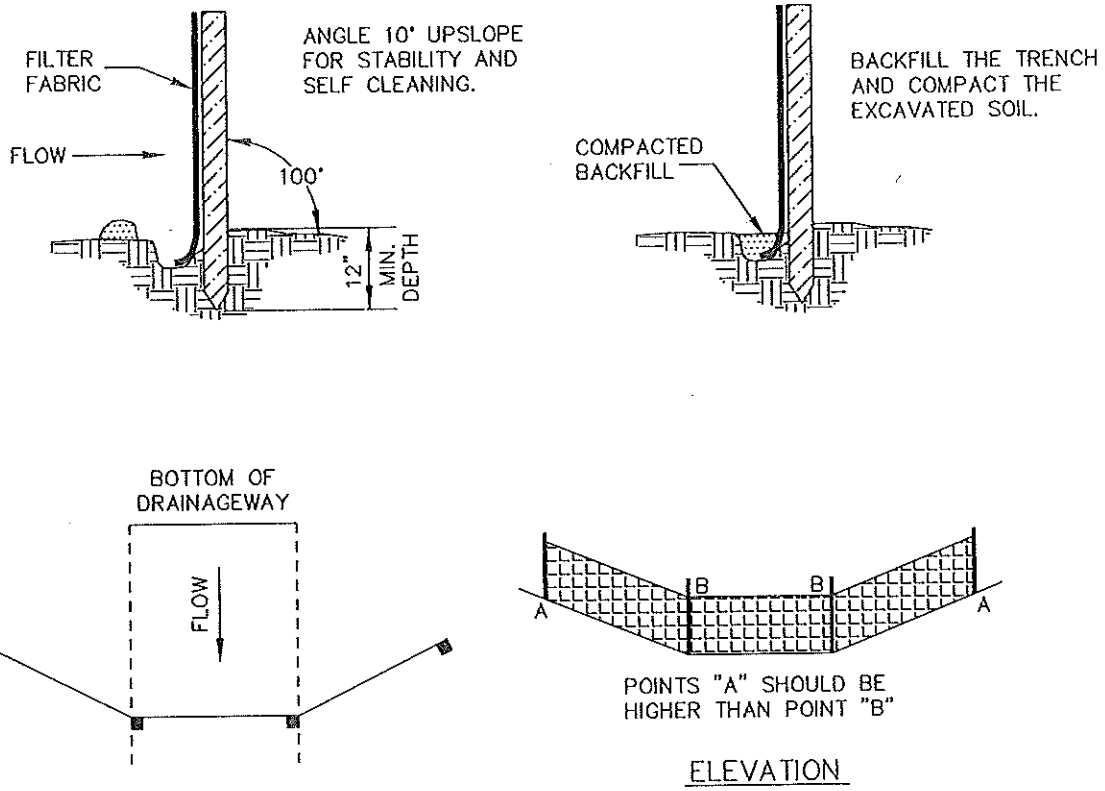
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DRIVEWAY RECLAMATION** NOT TO SCALE	**DETAIL R-18**



SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**SINK HOLE REPAIR** NOT TO SCALE	DETAIL R-19



SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CONSTRUCTION ENTRANCE ANTI-TRACKING PAD** NOT TO SCALE	DETAIL ES-1

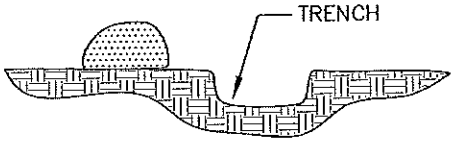


SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT

NOTES:
1. SILT SOCK MAY BE USED AS AN ALTERNATIVE SUBJECT TO APPROVAL BY THE TOWN ENGINEER.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**GEOTEXTILE SILT FENCE** NOT TO SCALE	DETAIL ES--2

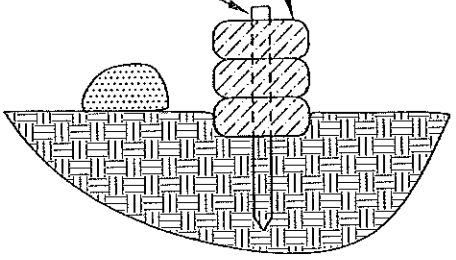
1. EXCAVATE A TRENCH 4" DEEP & THE WIDTH OF A STRAW BALE.



STRAW BALE

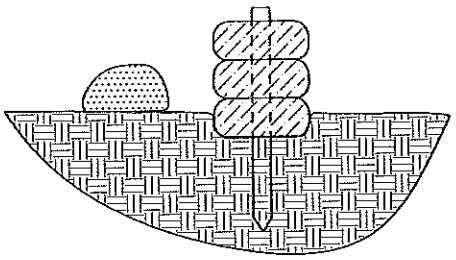
STAKE

2. PLACE & STAKE STRAW BALES, TWO STAKES PER BALE.



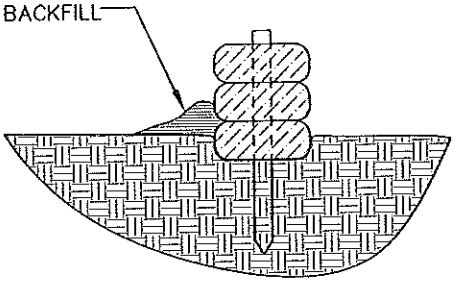
3. WEDGE LOOSE STRAW BETWEEN BALES TO CREATE A CONTINUOUS BARRIER.

PLAN



4. BACKFILL & COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

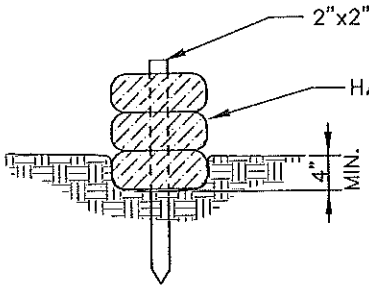
COMPACTED BACKFILL



2"x2"x4"STAKES

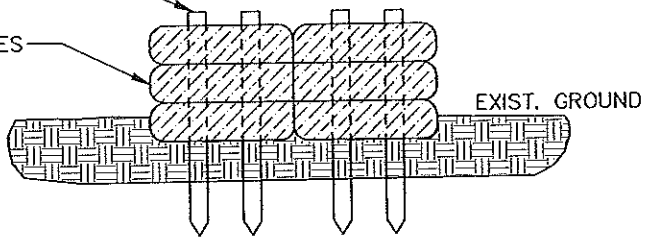
HAYBALES

4" MIN.



END VIEW

EXIST. GROUND

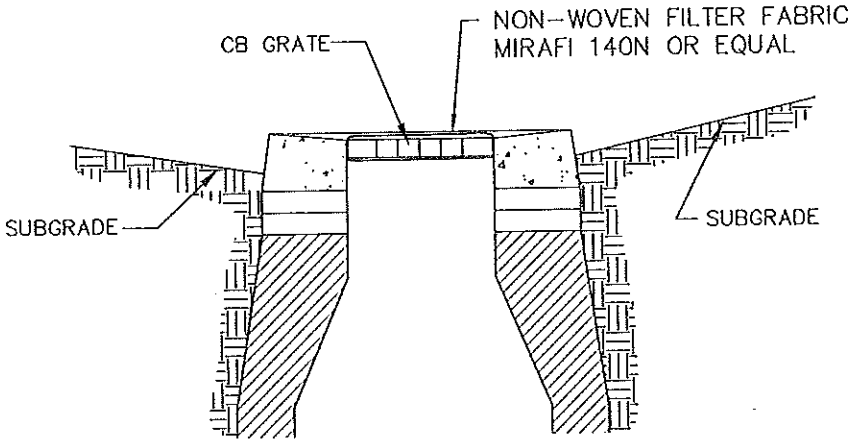


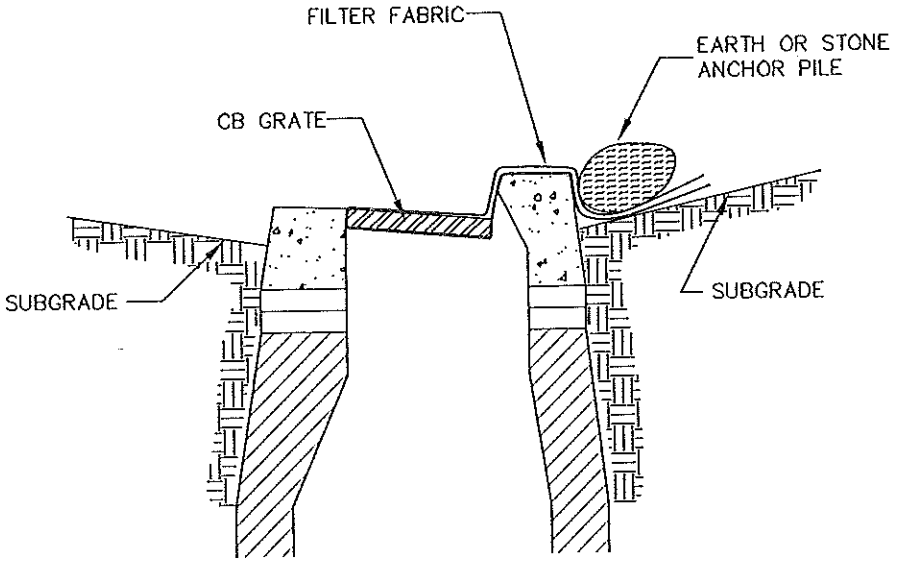
SIDE VIEW

NOTES:

1. HAYBALES TO BE EMBEDDED 4" IN EXISTING GROUND, BUTTED END TO END AND STAKED SECURELY.
2. SILT SOCK MAY BE USED AS AN ALTERNATIVE SUBJECT TO APPROVAL BY THE TOWN ENGINEER.

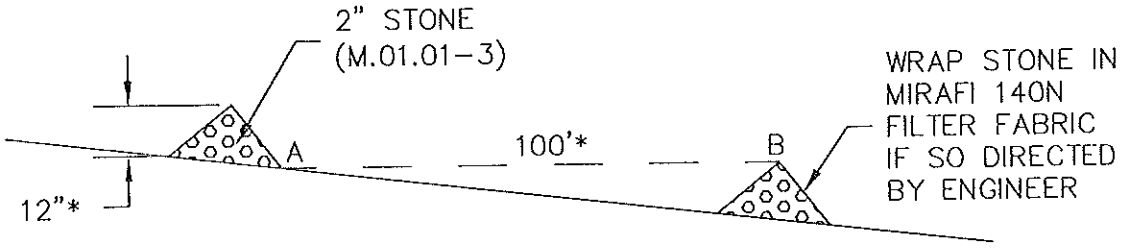
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**HAYBALES** NOT TO SCALE	DETAIL ES-3





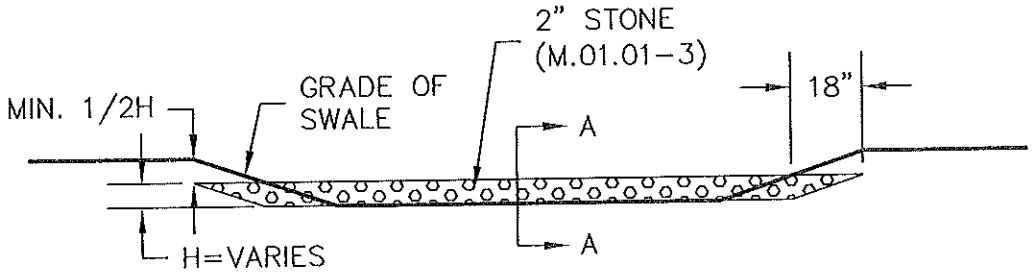
NOTE:
REMOVE CB GRATE. PLACE FILTER FABRIC REPLACE GRATE TAKING CARE NOT TO DAMAGE FILTER, ANCHOR W/STONE OR EARTH PILE.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CATCH BASIN INLET PROTECTION** NOT TO SCALE	DETAIL ES-4



LONGITUDINAL SECTION A-A

*NOTE: SPACE CHECK DAMS SO THAT POINT A AND POINT B ARE OF EQUAL ELEVATION (EX. 1% SLOPE, 12" HIGH CHECK DAM, SPACING = 100').



SWALE CROSS SECTIONAL VIEW

NOTE: KEY STONE INTO THE DITCH BANKS AND EXTEND INTO THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW FROM FLANKING THE CHECK DAM.

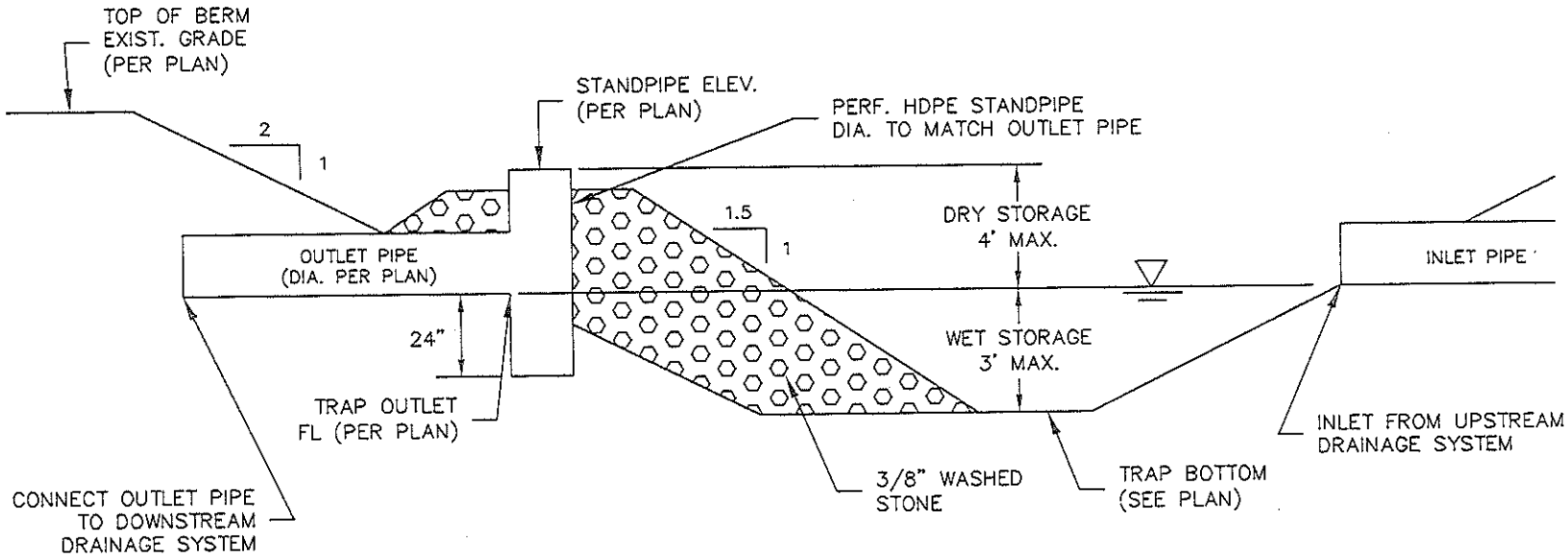
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**STONE CHECK DAM** NOT TO SCALE	DETAIL ES-5

SUFFIELD TOWN ENGINEER
STANDARD DETAIL
FEBRUARY 2010

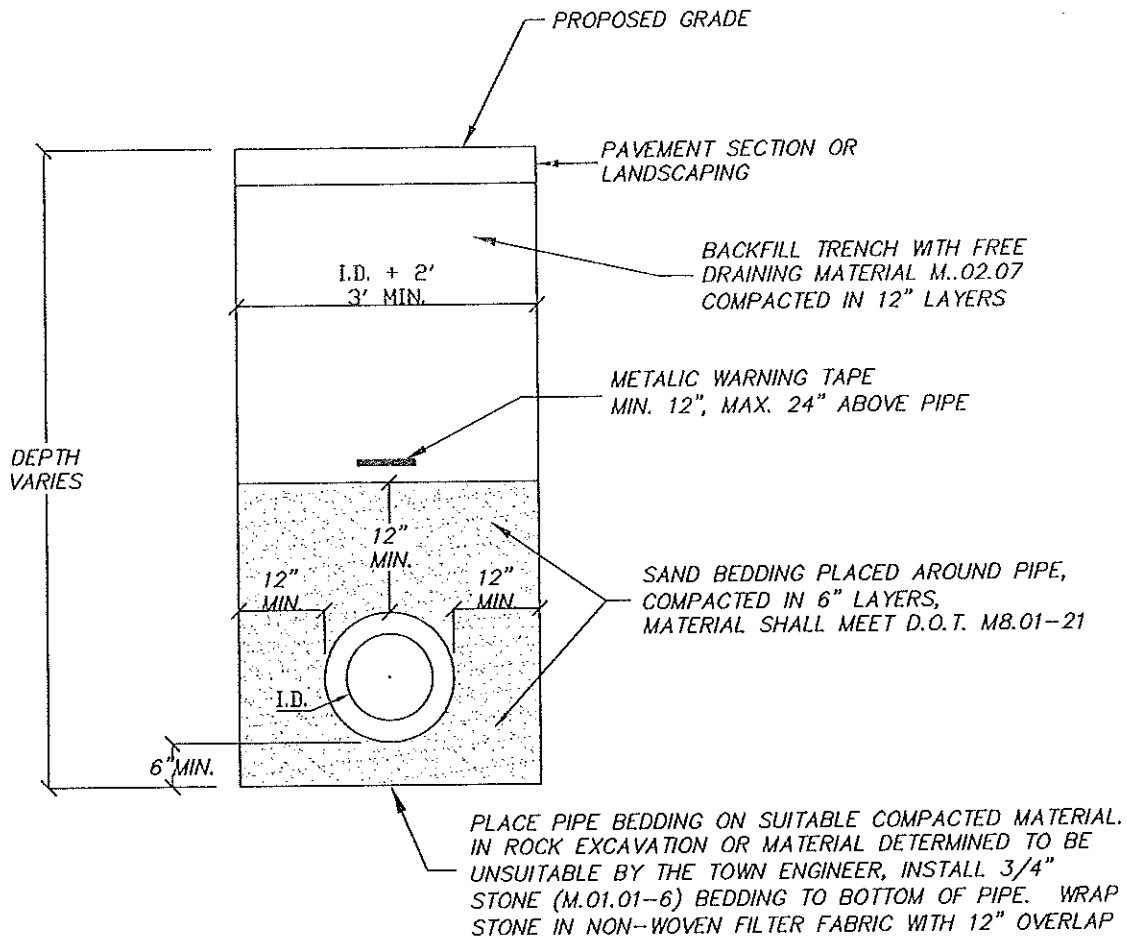
TEMPORARY SEDIMENT TRAP

NOT TO SCALE

DETAIL ES--6

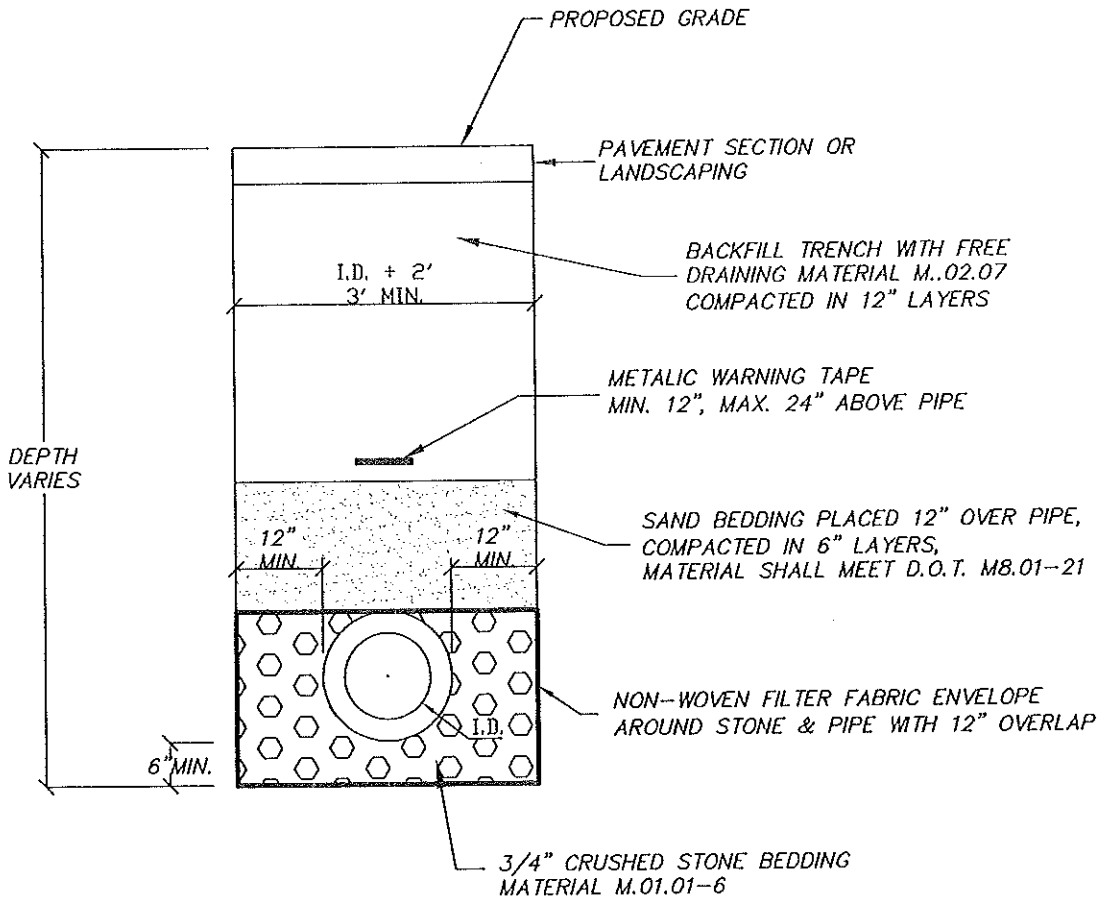


NOTE: INTENDED FOR DRAINAGE AREAS OF 1 TO 5 ACRES. TRAP SHALL PROVIDE A MINIMUM OF 134 CY OF WATER STORAGE PER ACRE DRAINED. HALF OF REQUIRED STORAGE SHALL BE WET STORAGE BELOW THE TRAP OUTLET. REFER TO PLAN FOR SPECIFIC DESIGN DATA



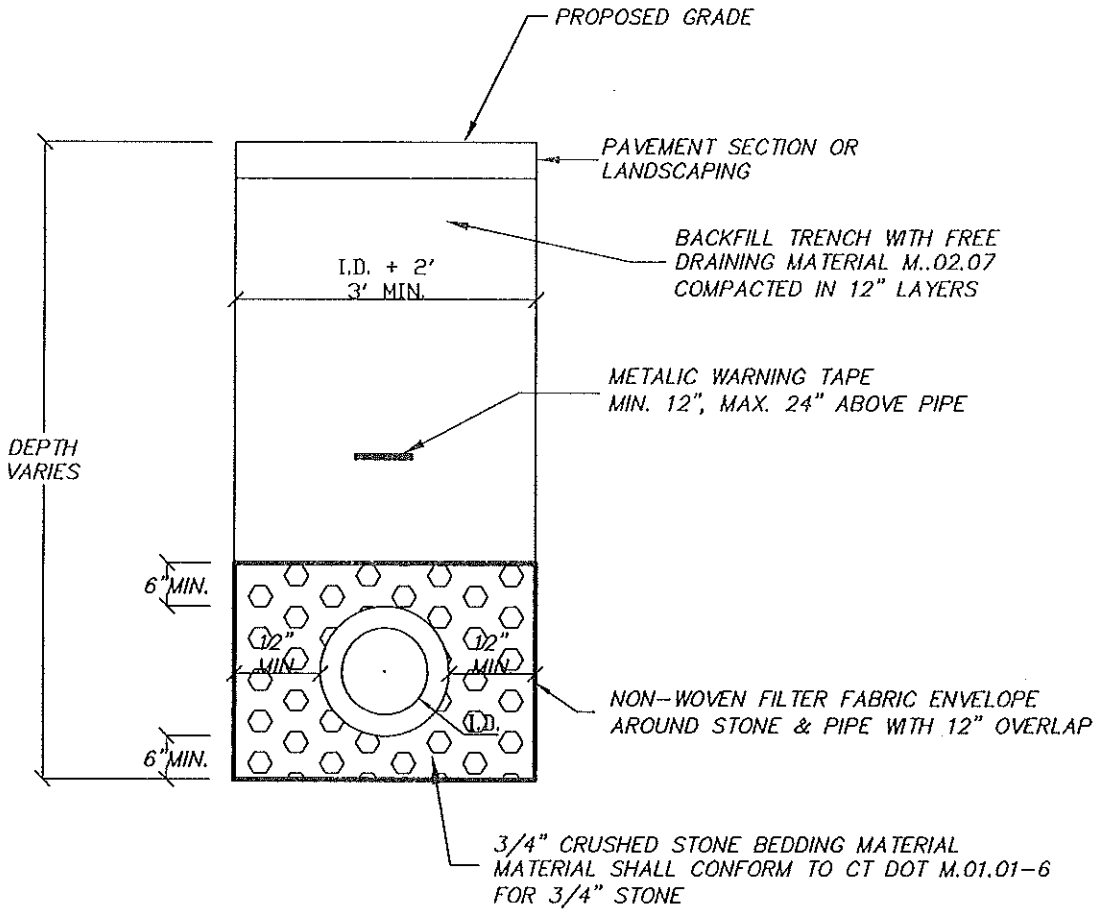
NOTE: ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**STORM DRAIN TRENCH (RCP)** NOT TO SCALE	DETAIL D--1



NOTES:
1. CPEP TYPE S = CORRUGATED POLYETHYLENE PIPE WITH SMOOTH INTERIOR
2. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

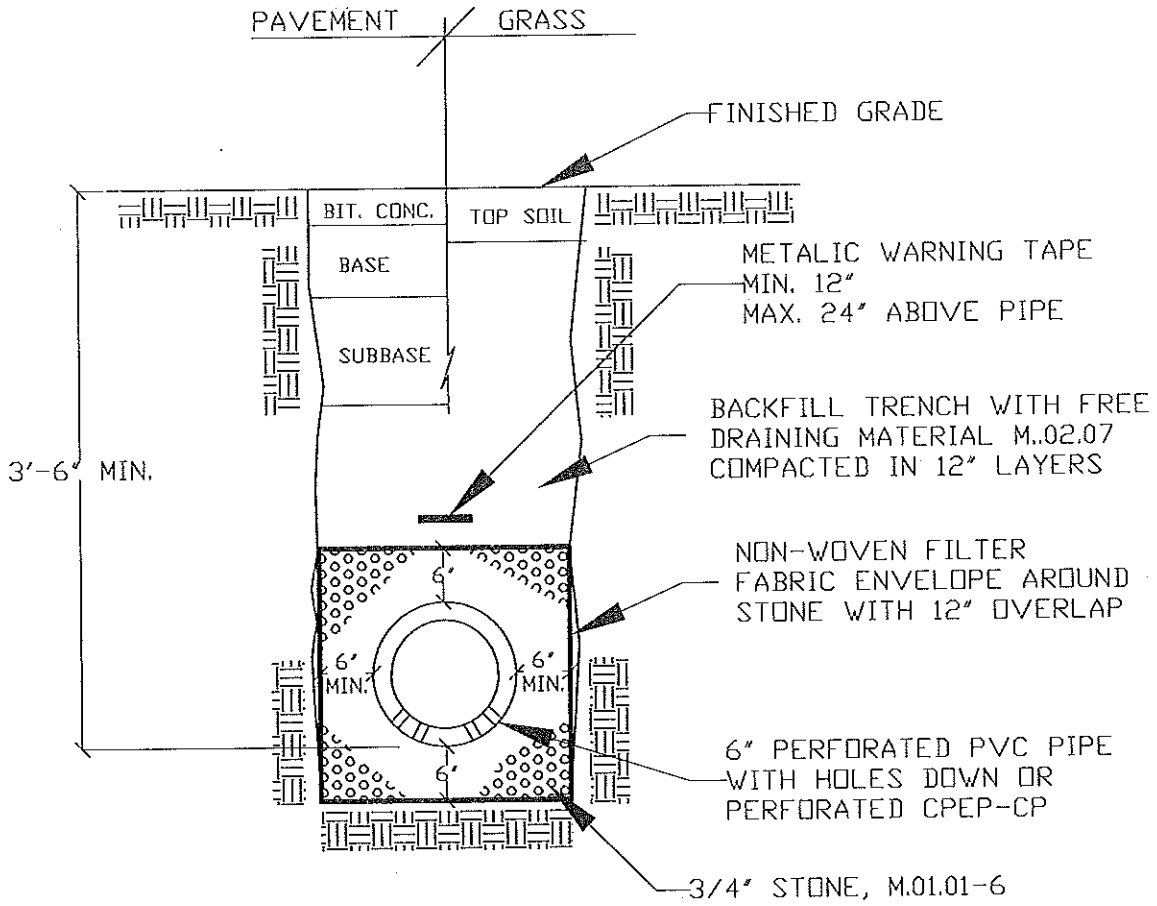
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**STORM DRAIN TRENCH (CPEP)** NOT TO SCALE	DETAIL D--2



NOTES:

1. CPEP TYPE SP = PERFORATED CORRUGATED POLYETHYLENE PIPE WITH SMOOTH INTERIOR
2. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

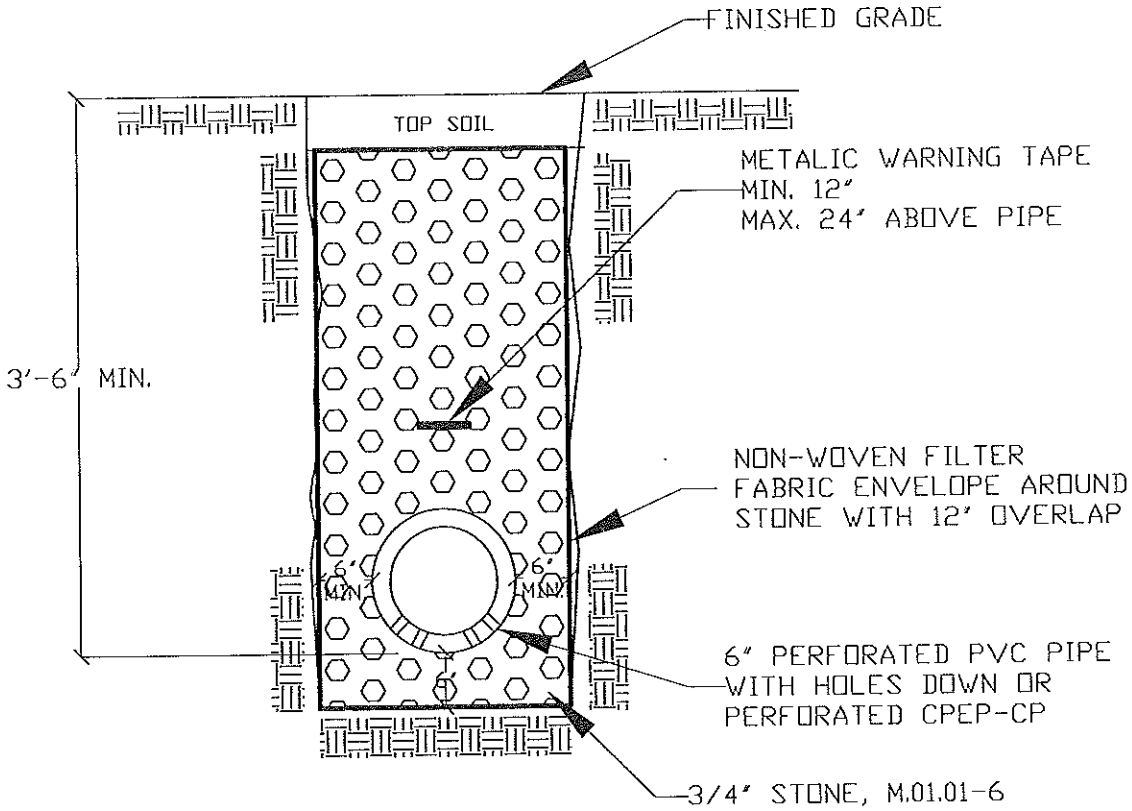
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**PERFORATED STORM DRAIN TRENCH (CPEP-P)** NOT TO SCALE	DETAIL D-3



NOTES:

1. CPEP TYPE CP = PERFORATED CORRUGATED POLYETHYLENE PIPE WITH CORRUGATED INTERIOR
2. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

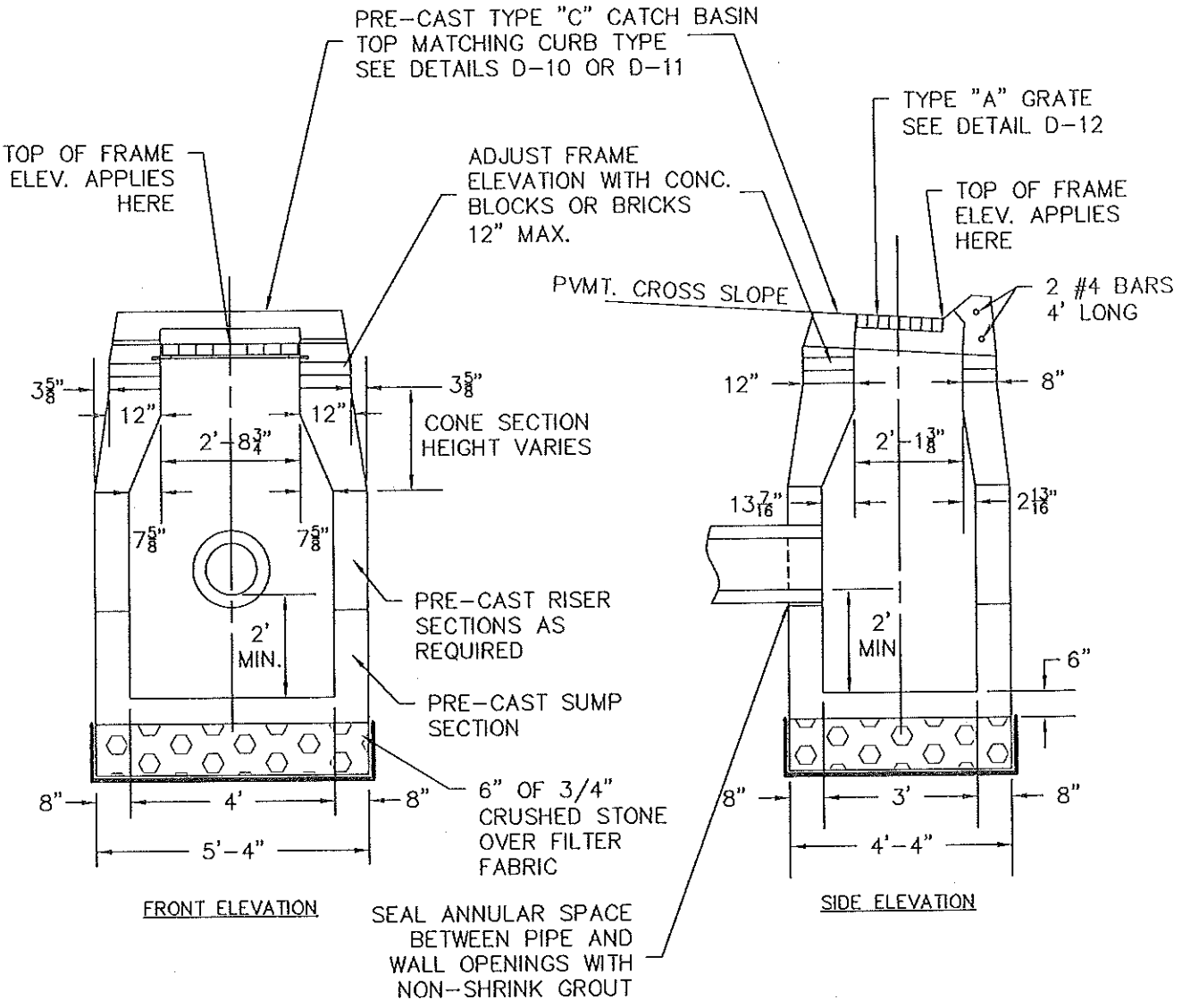
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**UNDERDRAIN** NOT TO SCALE	**DETAIL D-4**



NOTES:

1. CPEP TYPE CP = PERFORATED CORRUGATED POLYETHYLENE PIPE WITH CORRUGATED INTERIOR
2. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

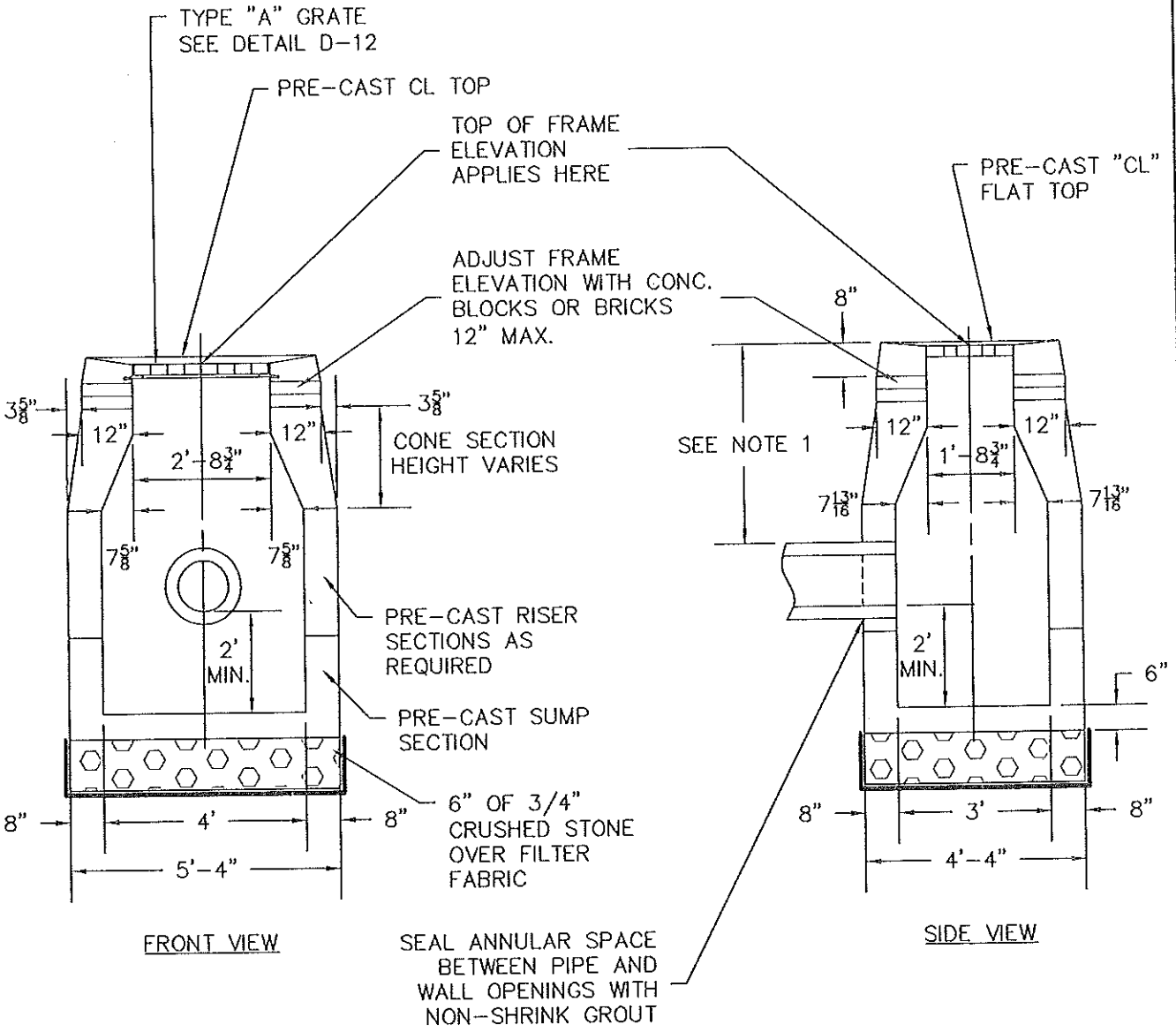
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CURTAIN DRAIN** NOT TO SCALE	**DETAIL D-5**



NOTES:

1. MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0" UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS 20 LOADING.
3. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.
4. ALL BRICKS SHALL BE CONCRETE.
5. JOINTS BETWEEN PRECAST SECTIONS SHALL BE SEALED WITH PREFORMED POLY BUTYL RUBBER GASKETS SUCH AS "KENT SEAL" OR EQUAL.
6. GROUT INTERIOR AND EXTERIOR JOINTS WITH NON-SHRINK GROUT.
7. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

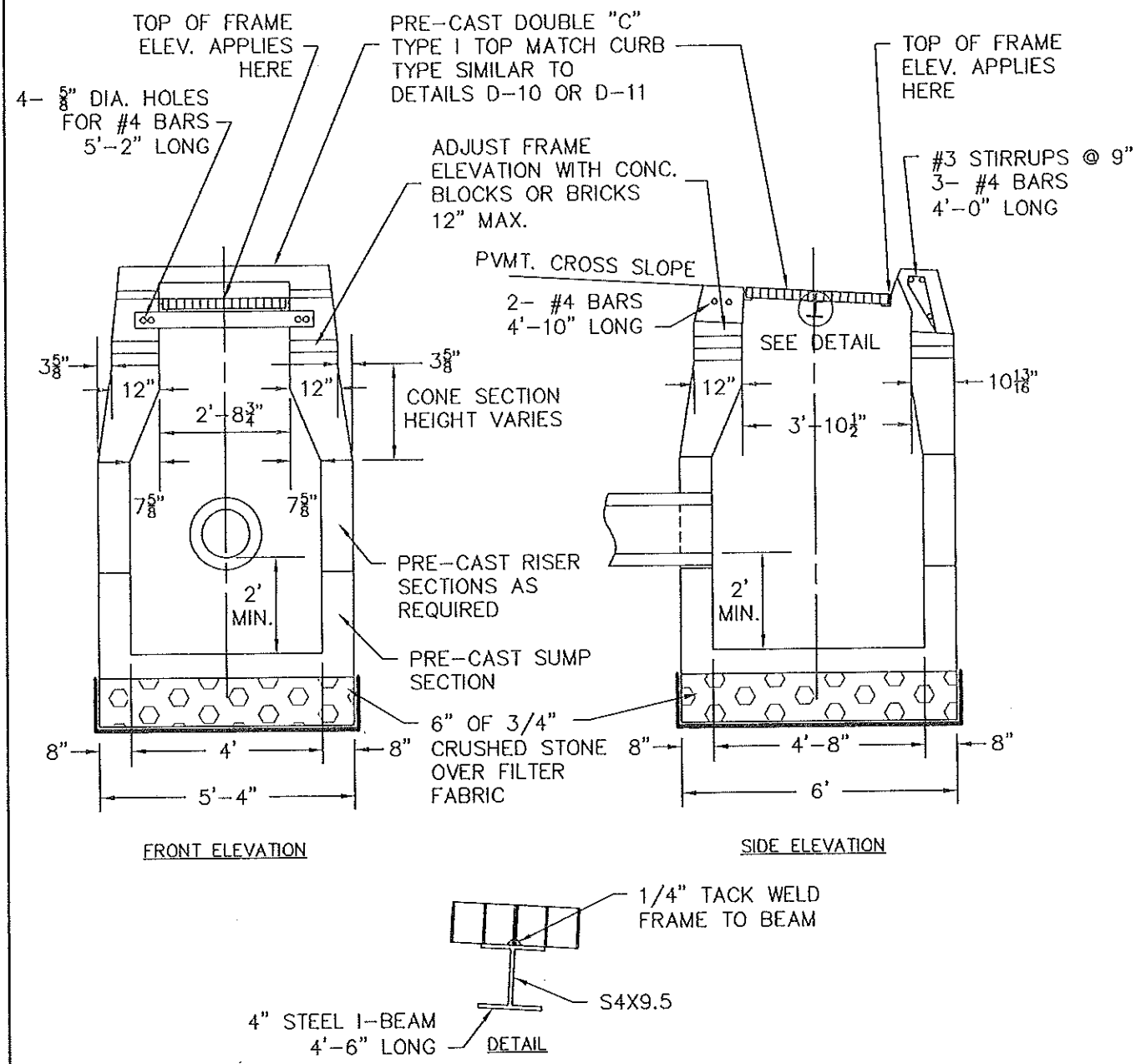
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TYPE "C" CATCH BASIN** NOT TO SCALE	**DETAIL D-6**



NOTES:

1. MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0" UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS 20 LOADING.
3. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.
4. ALL BRICKS SHALL BE CONCRETE.
5. JOINTS BETWEEN PRECAST SECTIONS SHALL BE SEALED WITH PREFORMED POLY BUTYL RUBBER GASKETS SUCH AS "KENT SEAL" OR EQUAL.
6. GROUT INTERIOR AND EXTERIOR JOINTS WITH NON-SHRINK GROUT.
7. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

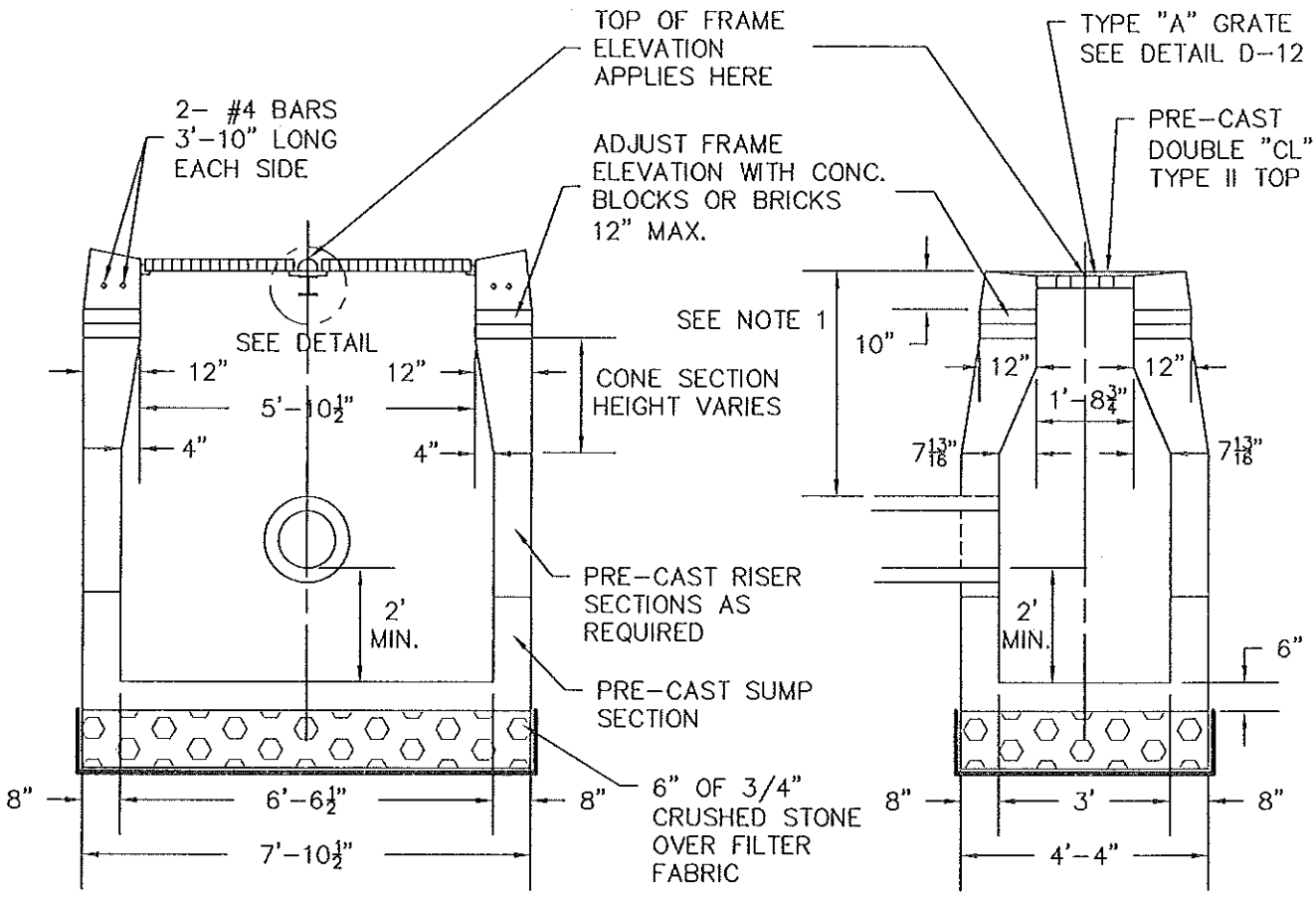
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TYPE "CL" CATCH BASIN** NOT TO SCALE	DETAIL D-7



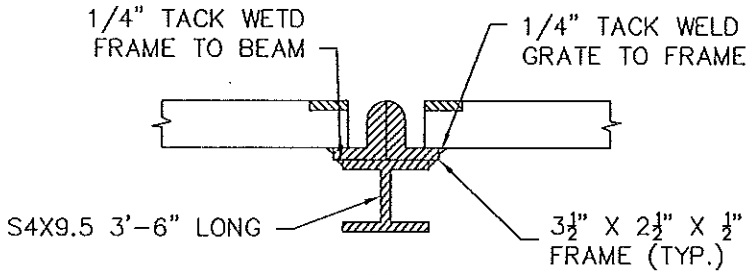
NOTES:

1. MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0" UNLESS OTHERWISE APPROVED.
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS 20 LOADING.
3. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.
4. ALL BRICKS SHALL BE CONCRETE.
5. USE PRE-CAST DOUBLE "CL" TYPE I TOP FOR DOUBLE "CL" BASIN.
6. SEAL ANNULAR SPACE BETWEEN PIPE AND WALL OPENINGS WITH NON-SHRINK GROUT
7. JOINTS BETWEEN PRECAST SECTIONS SHALL BE SEALED WITH PREFORMED POLY BUTYL RUBBER GASKETS SUCH AS "KENT SEAL" OR EQUAL.
8. GROUT INTERIOR AND EXTERIOR JOINTS WITH NON-SHRINK GROUT.
9. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DOUBLE GRATE TYPE I CATCH BASIN** NOT TO SCALE	DETAIL D-8



SIDE VIEW

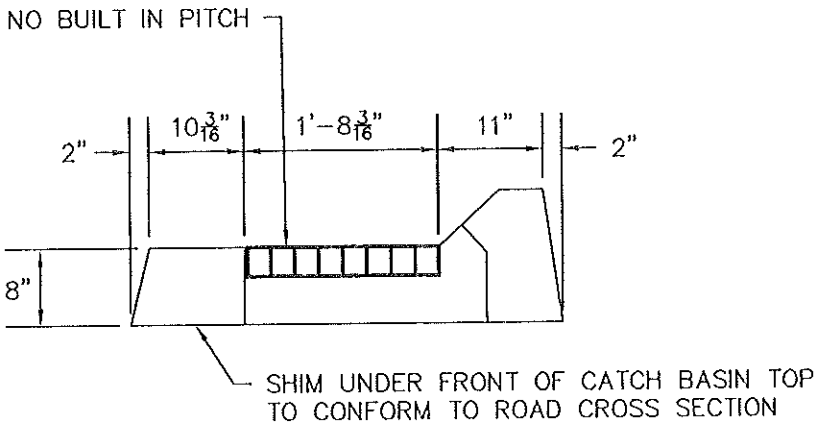


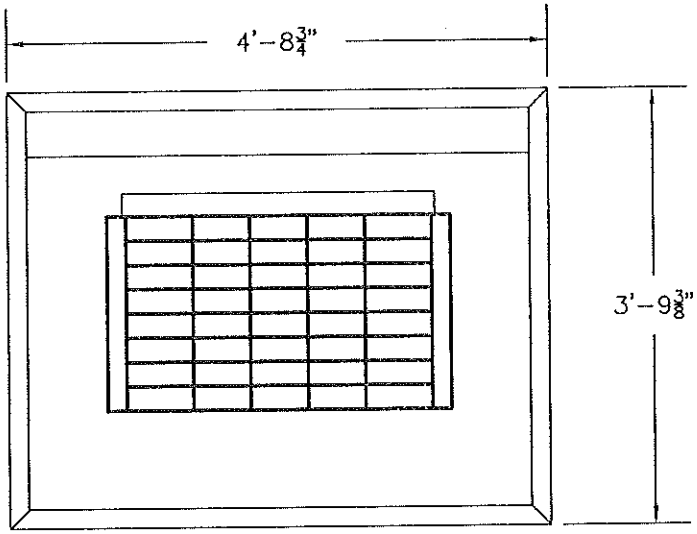
DETAIL

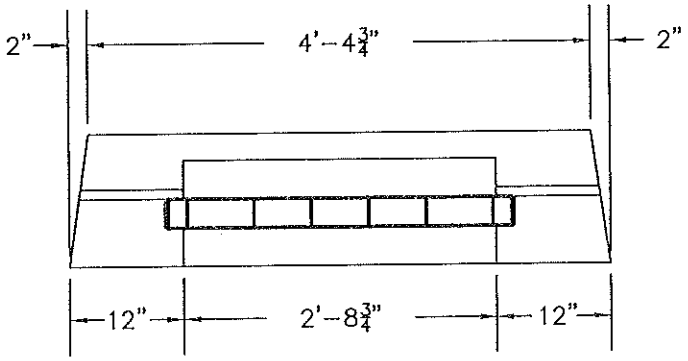
NOTES:

1. MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0" UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS 20 LOADING.
3. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.
4. ALL BRICKS SHALL BE CONCRETE.
5. USE TYPE "C" TOP FOR TYPE "C" DOUBLE BASINS SIMILAR TO DETAIL D-10.
6. SEAL ANNULAR SPACE BETWEEN PIPE AND WALL OPENINGS WITH NON-SHRINK GROUT.
7. JOINTS BETWEEN PRECAST SECTIONS SHALL BE SEALED WITH PREFORMED POLY BUTYL RUBBER GASKETS SUCH AS "KENT SEAL" OR EQUAL.
8. GROUT INTERIOR AND EXTERIOR JOINTS WITH NON-SHRINK GROUT.
9. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DOUBLE GRATE TYPE II CATCH BASIN** NOT TO SCALE	DETAIL D-9

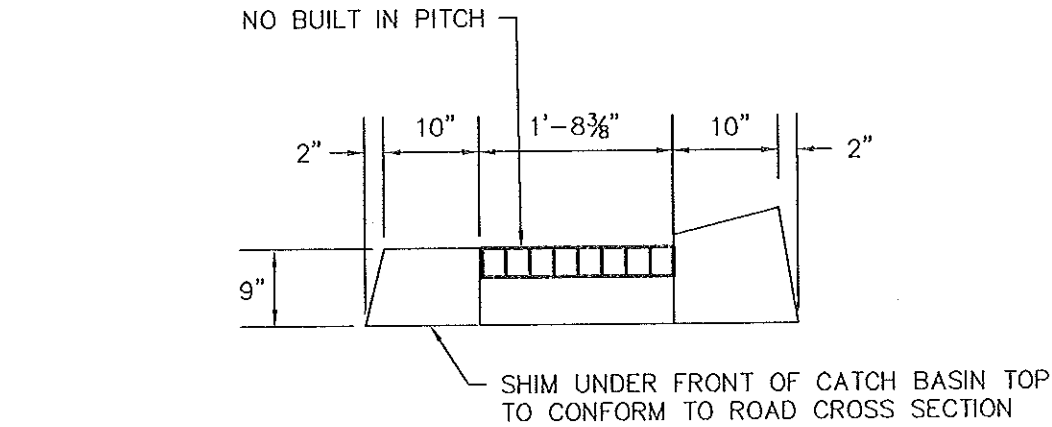


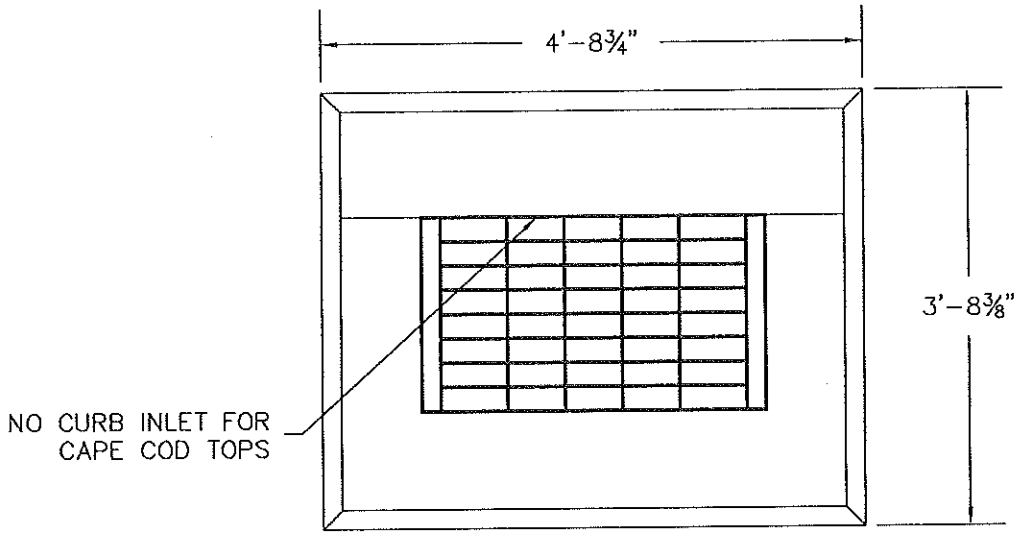


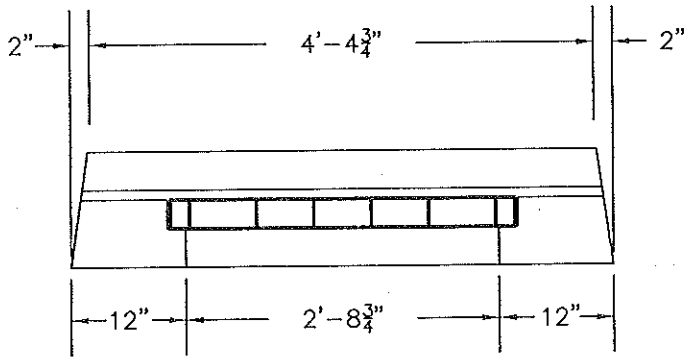


CATCH BASIN "C" SLOPE TOP AS MANUFACTURED BY
ARROW CONCRETE PRODUCTS, INC. OR EQUAL

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TYPE "C" (CURB INLET) CATCH BASIN TOP** NOT TO SCALE	DETAIL D-10

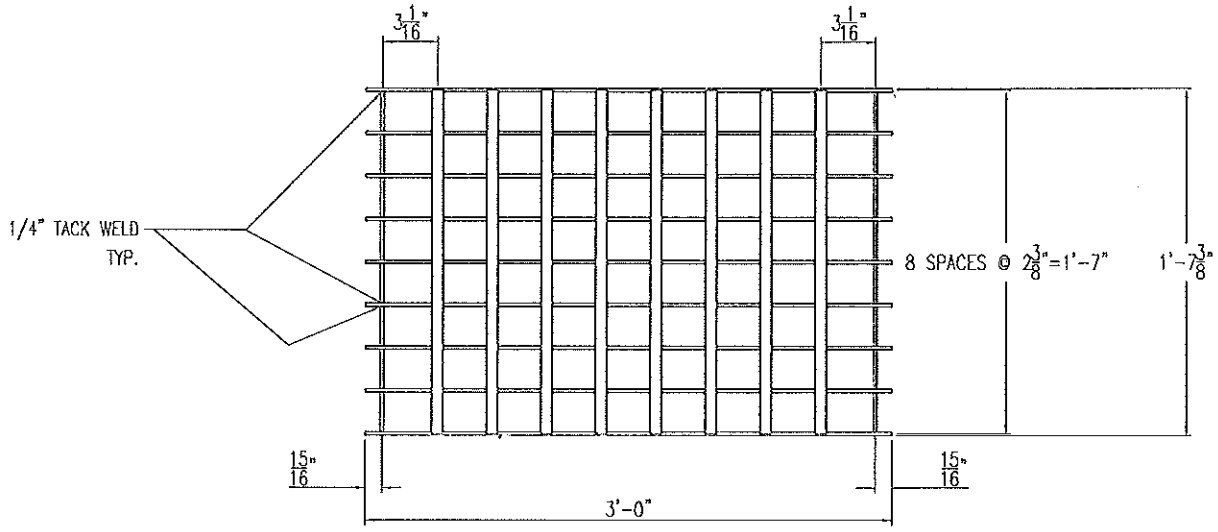


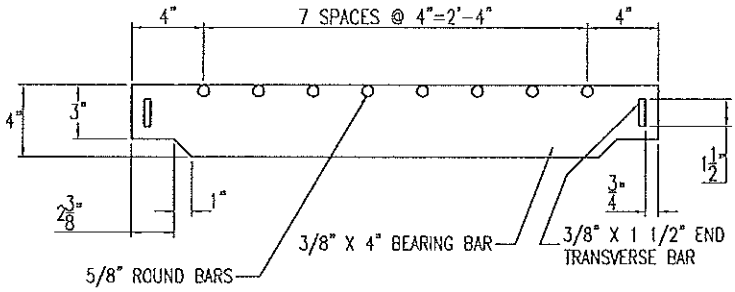


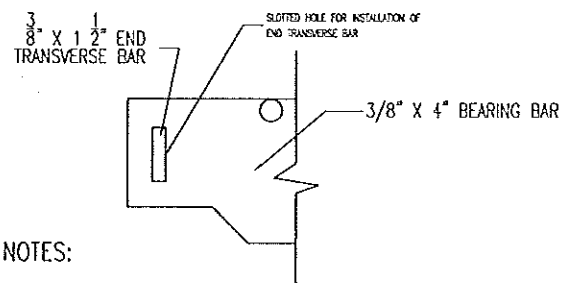


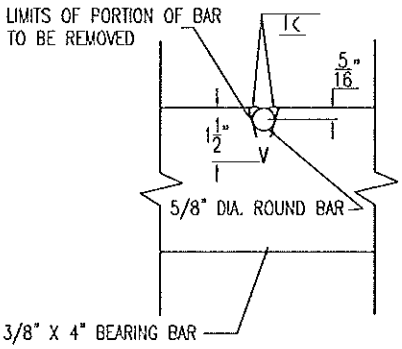
AC TYPE "C" CAPE COD CATCH BASIN TOP AS
MANUFACTURED BY ARROW CONCRETE PRODUCTS, INC.
OR EQUAL

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TYPE "C" CAPE COD CATCH BASIN TOP** NOT TO SCALE	DETAIL D--11





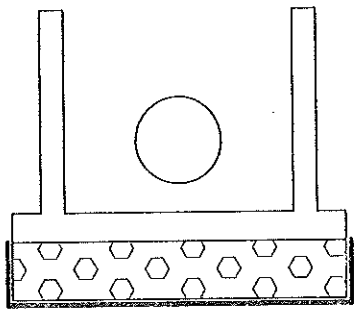




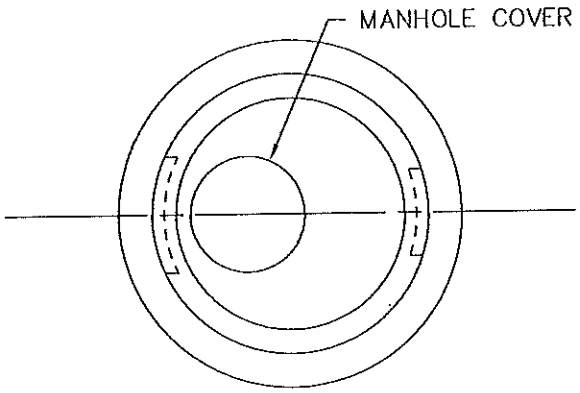
NOTES:

1. FRAMES AND GRATES SHALL BE STEEL.
2. STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH M.06.03.
3. ALL METAL UNITS SUBJECT TO MANUFACTURING TOLERANCES.
4. ONLY LOW HYDROGEN ELECTRODES SHALL BE USED.
5. DIMENSIONAL TOLERANCES MAY BE +/- 1/16".
6. WELDING WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION.
7. ALL BARS SHALL BE WELDED AT ALL INTERSECTIONS

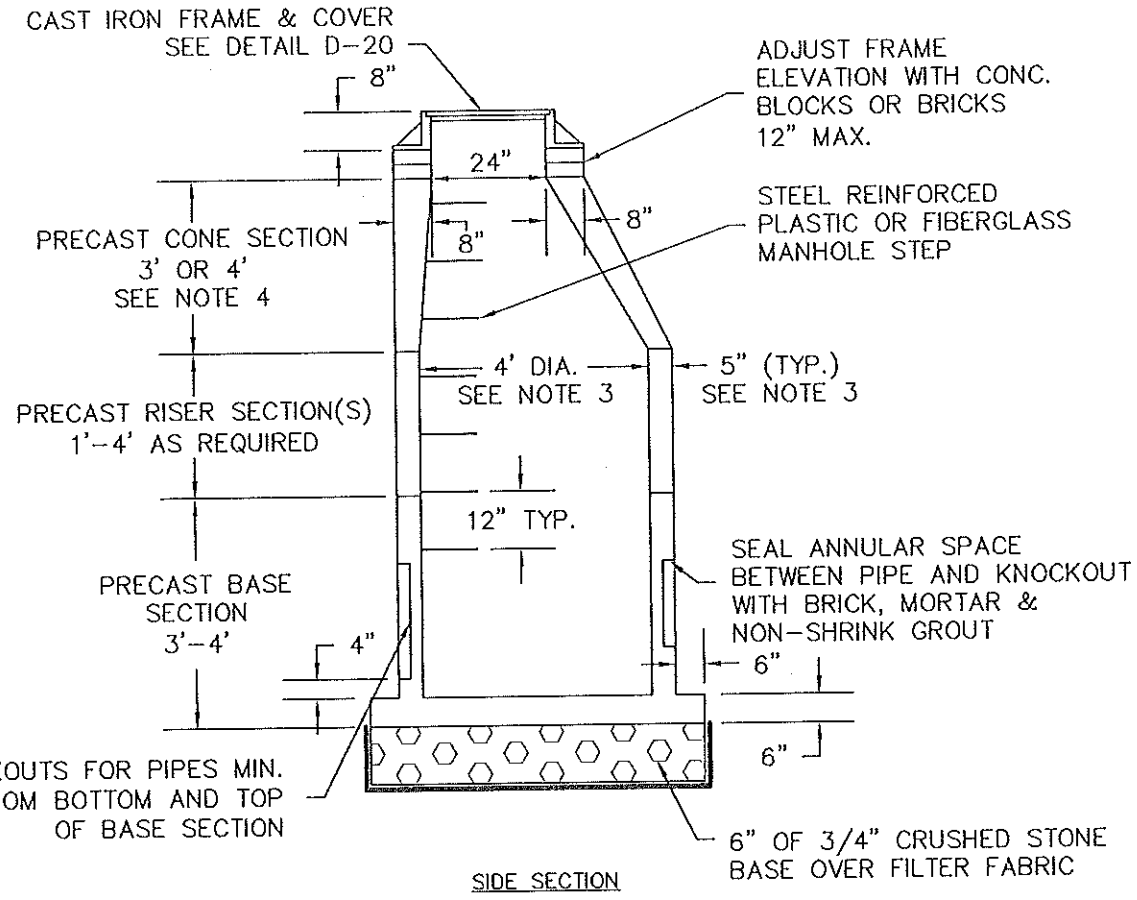
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TYPE "A" CATCH BASIN GRATE** NOT TO SCALE	**DETAIL D--12**



FRONT SECTION



TOP SECTION



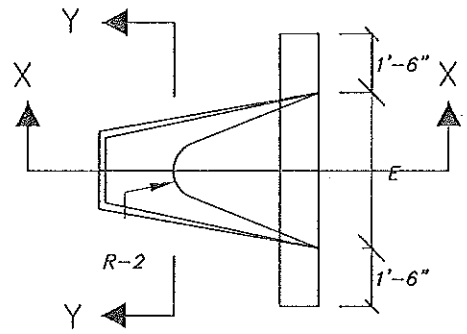
SIDE SECTION

NOTES:

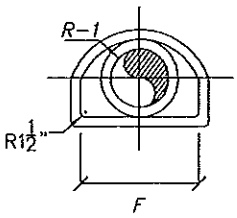
1. MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0" UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS 20 LOADING.
3. MANHOLE INSIDE DIAMETER MAY BE INCREASED AS DIRECTED BY THE ENGINEER TO ACCOMMODATE SIZE AND NUMBER OF PIPES. INCREASE WALL THICKNESS 1" FOR EACH 1 FT. OF INSIDE DIAMETER INCREASE.
4. FOR SHALLOW STURCTURES, USE 8" SLAB IN PLACE OF CONE SECTION.
5. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.
6. FILL LIFTING HOLES WITH MORTAR.
7. JOINTS BETWEEN PRECAST SECTIONS SHALL BE SEALED WITH PREFORMED POLY BUTYL RUBBER GASKETS SUCH AS "KENT SEAL" OR EQUAL.
8. GROUT INTERIOR AND EXTERIOR JOINTS WITH NON-SHRINK GROUT.
9. ALL MATERIALS ARE TO MEET CONN. DOT SPECIFICATIONS FORM 816 AS AMENDED.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**PRECAST** **STORM DRAIN MANHOLE** NOT TO SCALE	DETAIL D-13

DIMENSIONS								
DIA.	A	B	C	D	E	F	R-1	R-2
12"	4"	2'-0"	6'-0 3/8"	6'-0 3/8"	2'-0"	1'-7 15/16"	1'-0 1/4"	9"
15"	6"	2'-3"	3'-10"	6'-1"	2'-6"	2'-0 5/16"	1'-0 1/2"	11"
18"	9"	2'-3"	3'-10"	6'-1"	3'-0"	2'-5"	1'-3 1/2"	1'-0"
24"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	2'-9 3/16"	1'-4 13/16"	1'-2"
30"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3'-1"	1'-6 1/2"	1'-3"
36"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	3'-11 13/16"	2'-0 5/16"	1'-8"
42"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	4'-5 7/8"	2'-3 1/2"	1'-10"
48"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	4'-8 1/2"	2'-4 1/2"	1'-10"

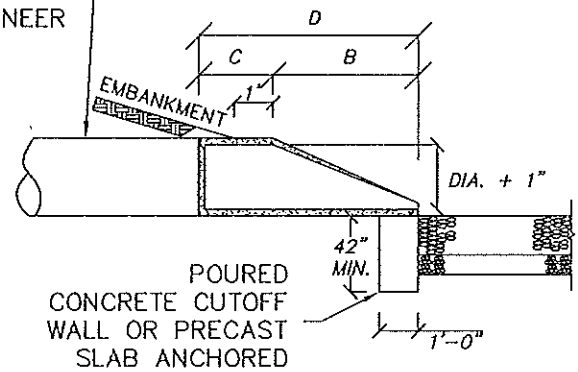


PLAN



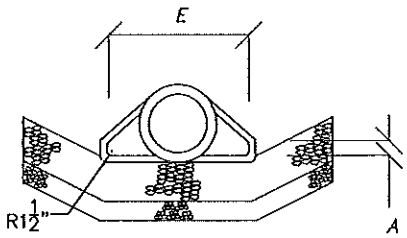
SECTION Y-Y

PIPE FROM LAST STRUCTURE TO OUTLET SHALL BE RCP UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER



POURED CONCRETE CUTOFF WALL OR PRECAST SLAB ANCHORED TO CULVERT END

SECTION X-X



END VIEW

NOTES:

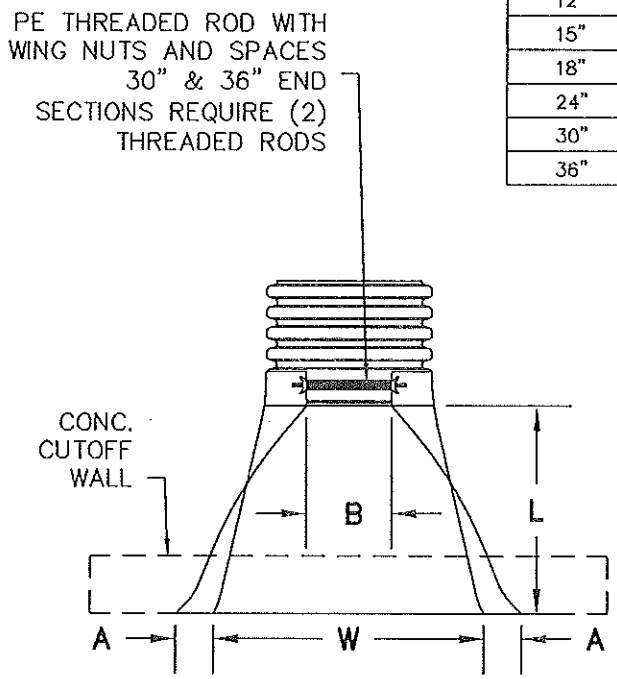
JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT AS REQUIRED TO CONFORM TO PIPE.

WALL THICKNESS SHALL CONFORM TO PIPE THICKNESS.

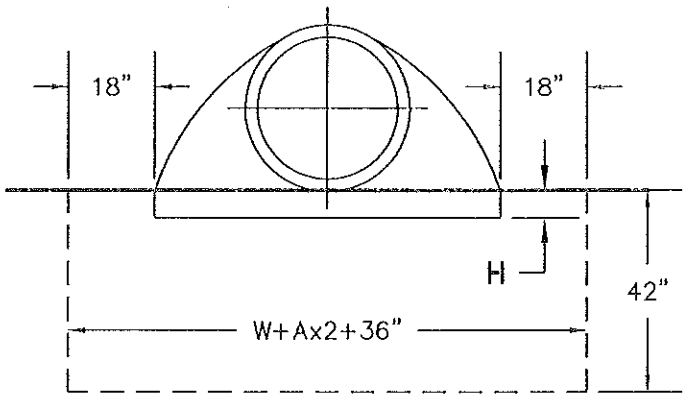
STRUCTURE SHALL BE PLACED ON EXISTING SUITABLE COMPACTED MATERIAL OR 12" GRAVEL BASE.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CONCRETE FLARED END SECTION** NOT TO SCALE	DETAIL D-14

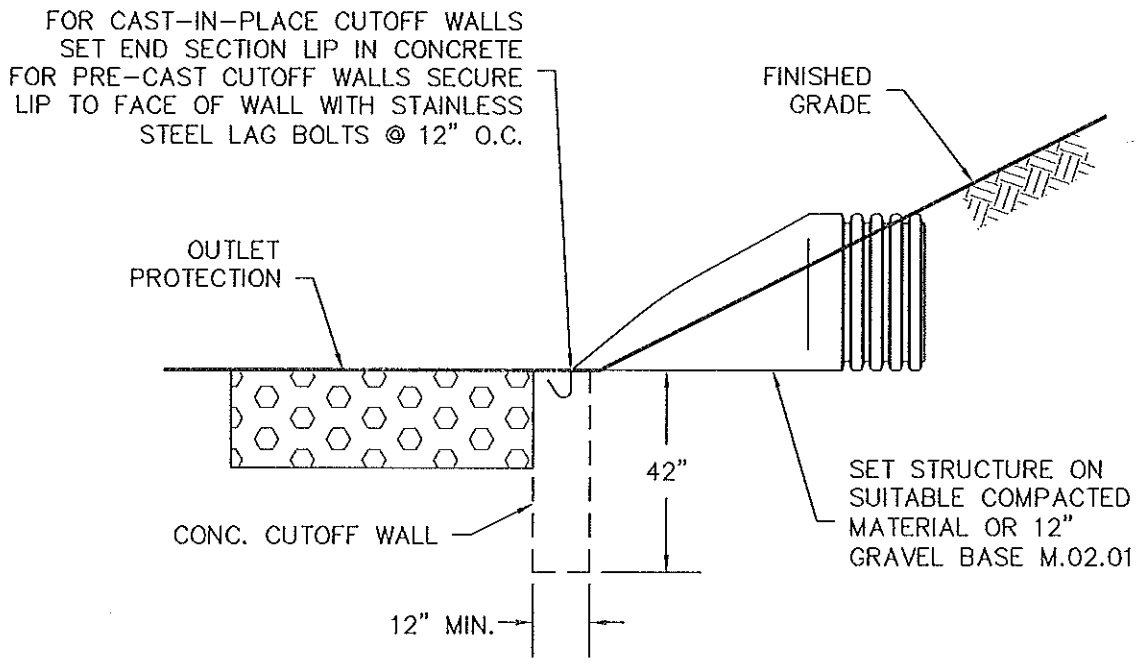
DIMENSIONS					
DIA.	A	B (MAX.)	H	L	W
12"	6.5"	10"	6.5"	25"	29"
15"	6.5"	10"	6.5"	25"	29"
18"	7.5"	15"	6.5"	32"	35"
24"	7.5"	18"	6.5"	36"	45"
30"	7.5"	12"	8.6"	58"	63"
36"	7.5"	25"	8.6"	58"	63"



TOP VIEW



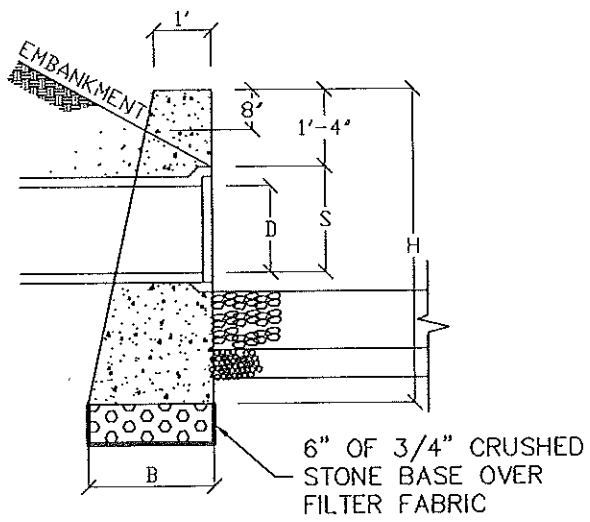
FRONT VIEW



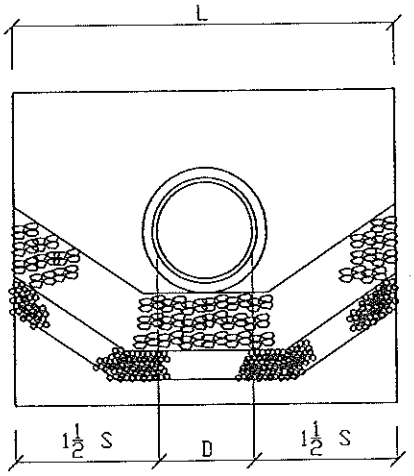
RIGHT SIDE VIEW

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CORRUGATED POLYETHYLENE FLARED END SECTION** NOT TO SCALE	DETAIL D-15

DIMENSIONS FOR ONE ENDWALL BASED ON S=D+2'					
D	S	H	L	BATTER	B
INS	FT & INS	FT & INS	FT & INS	INCHES	FT & INS
15"	1'-5"	4'-9"	5'-6"	2 1/2"	1'- 11 7/8"
18"	1'-8"	5'-0"	6'-6"	2 1/2"	2'-0 1/2"
24"	2'-2"	5'-6"	8'-6"	2 1/2"	2'-1 3/4"
30"	2'-8"	6'-0"	10'-6"	2 1/2"	2'-3"
36"	3'-2"	6'-6"	12'-6"	3"	2'-7 1/2"
42"	3'-8"	7'-0"	14'-6"	3"	2'-9"
48"	4'-2"	7'-6"	16'-6"	3"	2'-10 1/2"



SIDE ELEVATION



FRONT ELEVATION

ENDWALL NOTES

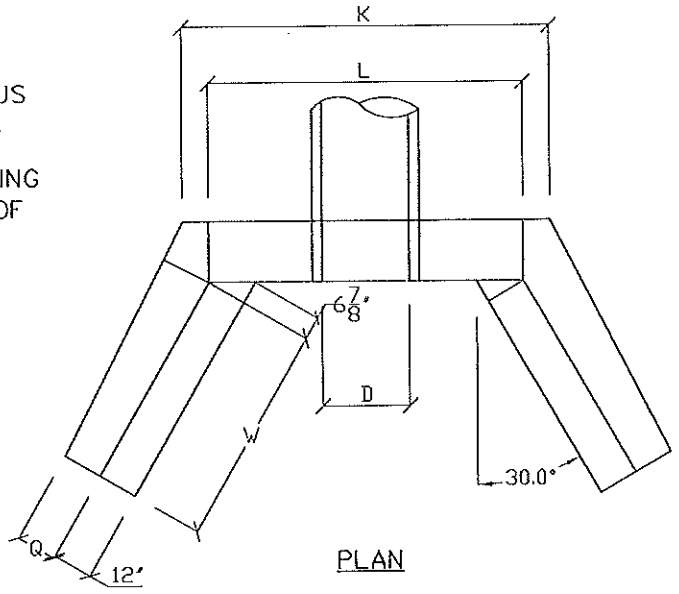
1. EXPOSED EDGES SHALL BE BEVELED 1"

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CONCRETE ENDWALL** NOT TO SCALE	DETAIL D--16

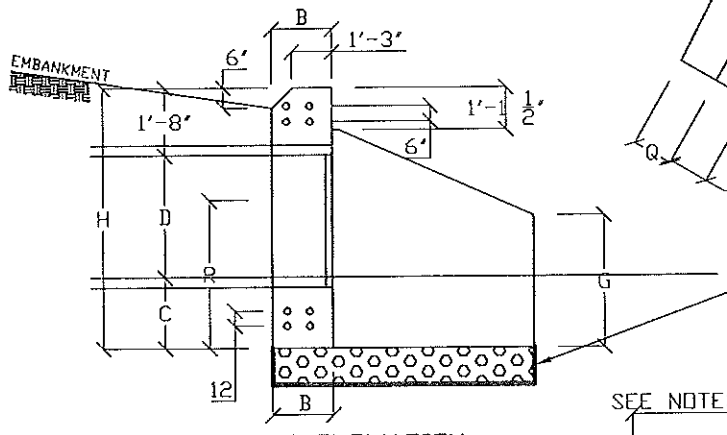
DIMENSIONS											
D	B	C	G	H	K	L	P	Q	R	W	CU.YDS.
36"	1'-6"	2'-0"	3'-3"	6'-8"	9'-1 1/2"	7'-3 3/4"	1'-4 7/8"	0'-9 3/4"	3'-4 7/8"	5'-5 3/4"	5.87
42"	1'-6"	2'-0"	3'-3"	7'-2"	9'-10 1/2"	7'-9 3/4"	1'-6 3/8"	0'-9 3/4"	3'-10 1/2"	6'-7 3/4"	6.67
48"	1'-7"	2'-6"	3'-9"	8'-2"	10'-10"	8'-3 3/4"	1'-9 3/8"	0'-11 1/4"	4'-9"	7'-9 1/2"	9.11
60"	1'-7"	2'-6"	3'-9"	9'-2"	12'-4 1/2"	9'-3 3/4"	2'-0 3/8"	0'-11 1/4"	5'-9"	10'-1 1/4"	12.43

ENDWALL NOTES :

1. EXPOSED EDGES SHALL BE BEVELED 1"
2. REINFORCEMENT SHALL HAVE 3" COVER
3. WHEN ENDWALL IS TO BE USED FOR TWIN PIPES "L" & "K" DIMENSIONS SHALL BE INCREASED BY O.D. OF SMALLER PIPE PLUS ONE FOOT. ALL OTHER DIMENSIONS SHALL CONFORM TO THE LARGER PIPE.
4. STRUCTURES SHALL BE PLACED ON EXISTING SUITABLE COMPACTED MATERIAL OR 12" OF 3/4" STONE BASE OVER FILTER FABRIC.

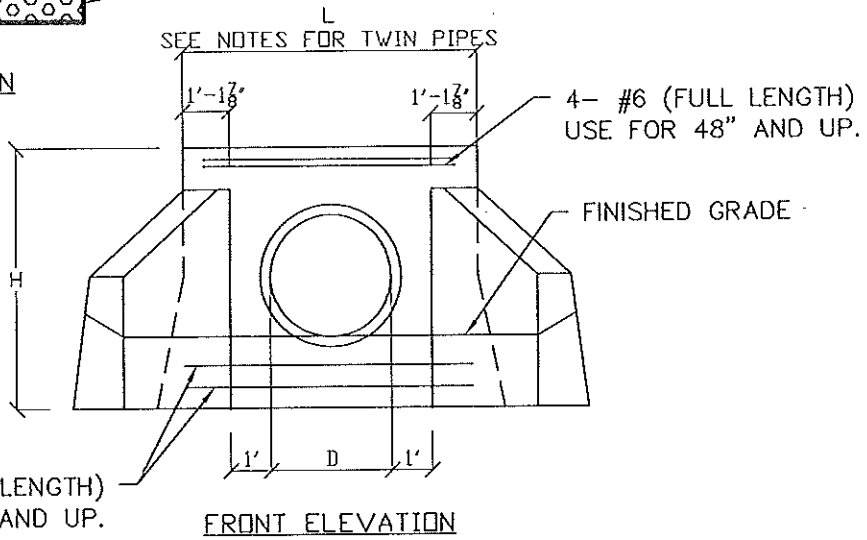


PLAN



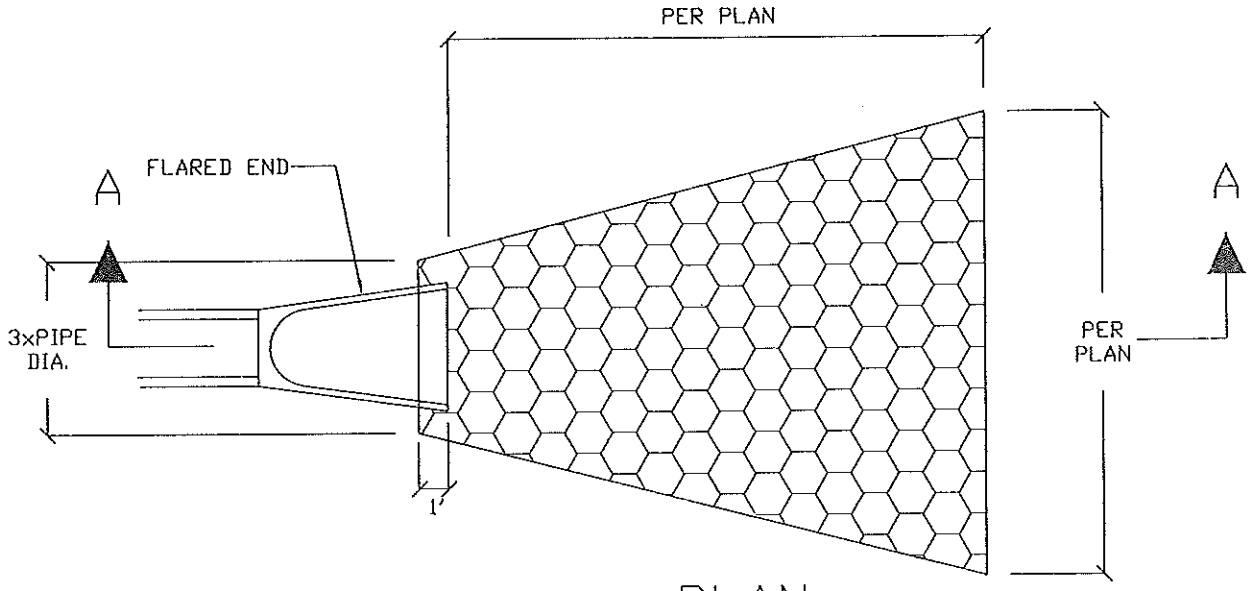
SIDE ELEVATION

12" OF 3/4" CRUSHED STONE BASE OVER FILTER FABRIC

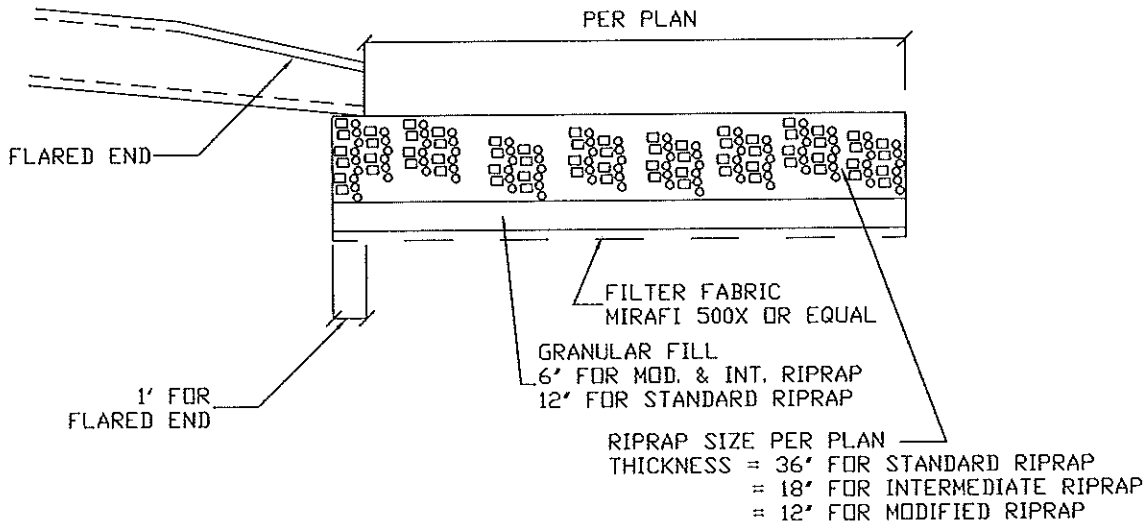


FRONT ELEVATION

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**CONCRETE WINGWALL** NOT TO SCALE	DETAIL. D-17

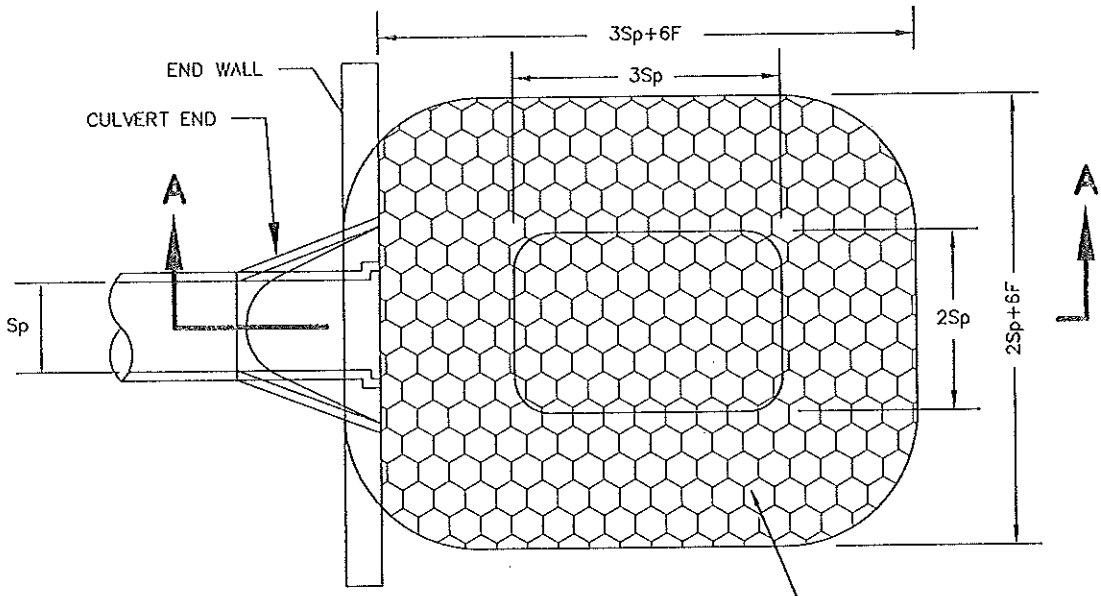


PLAN



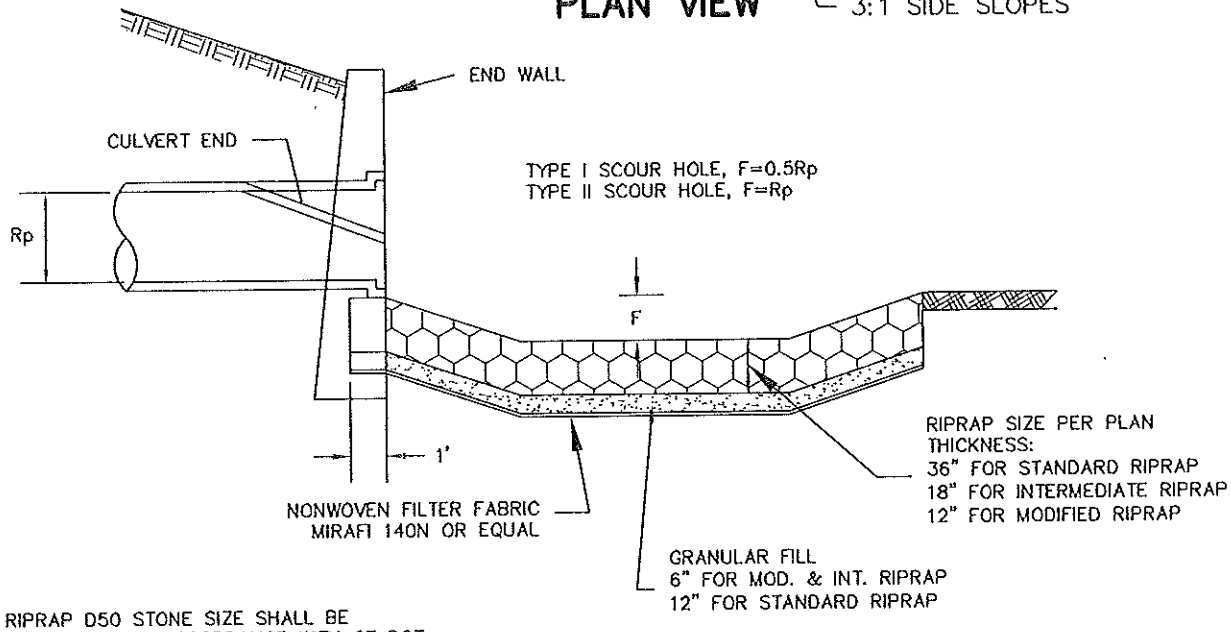
SECTION A-A

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**RIPRAP APRON** NOT TO SCALE	DETAIL D-18



PLAN VIEW

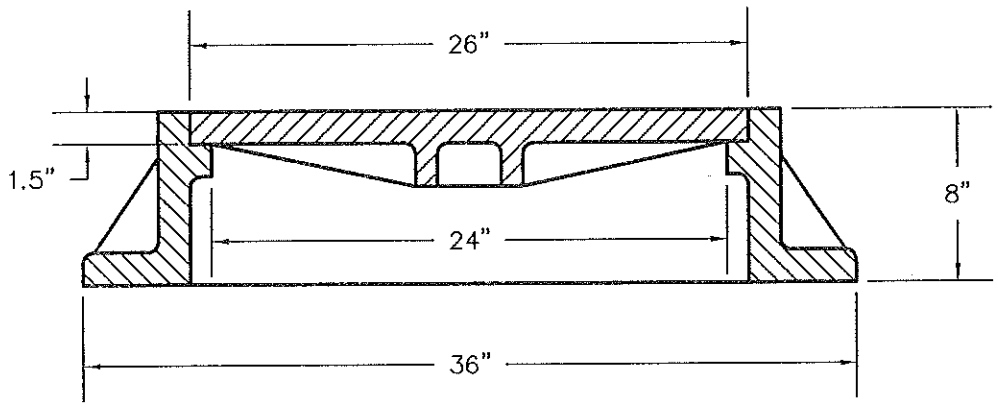
3:1 SIDE SLOPES



RIPRAP D50 STONE SIZE SHALL BE DETERMINED IN ACCORDANCE WITH CT DOT DRAINAGE MANUAL SECTION 8.7.6 FOR PREFORMED SCOUR HOLES

SECTION A–A

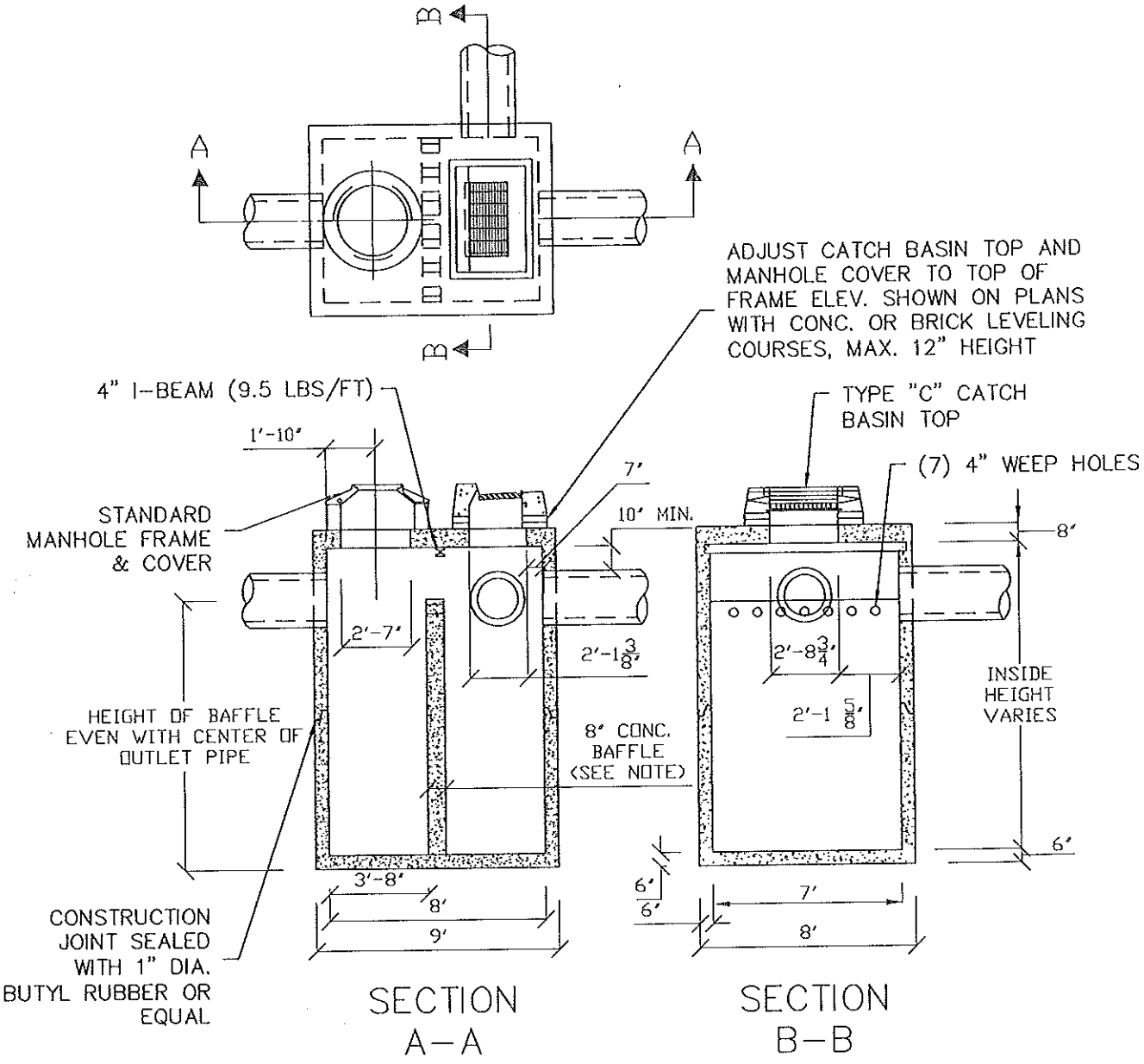
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**PREFORMED SCOUR HOLE** NOT TO SCALE	DETAIL D–19



NOTES:

1. FRAME & COVER SHALL CONFORM TO SPECIFICATIONS OF EAST JORDAN IRON WORKS CATALOG #1047 OR CAMBELL FOUNDRY PATTERN #1010, OR EQUAL.
2. COVER SHALL BE MARKED "DRAIN" IN 3" LETTERS, EAST JORDAN IRON WORKS PATTERN LC 268 OR EQUAL.
3. THE LOWER SURFACE OF THE COVER AND THE CORRESPONDING UPPER SURFACE OF THE FRAME SHALL BE MACHINE FINISHED TO PROVIDE A SMOOTH FLAT CONTACT OR FIT, WITHOUT ANY TENDANCY FOR THE COVER TO ROCK OR RATTLE.

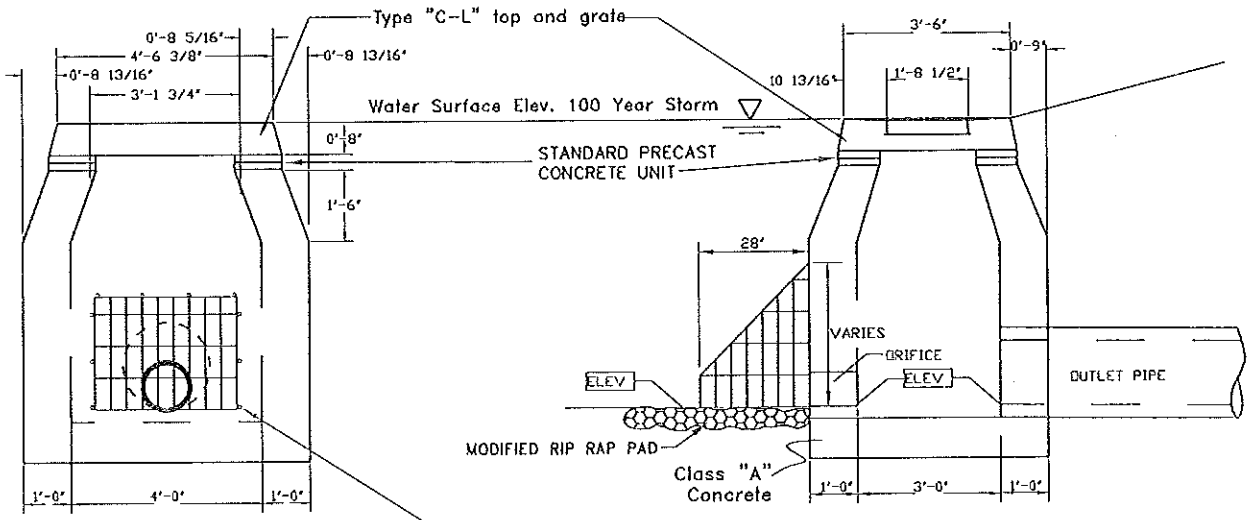
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**STANDARD STORM MANHOLE FRAME & COVER** OR APPROVED EQUAL	**DETAIL D-20**



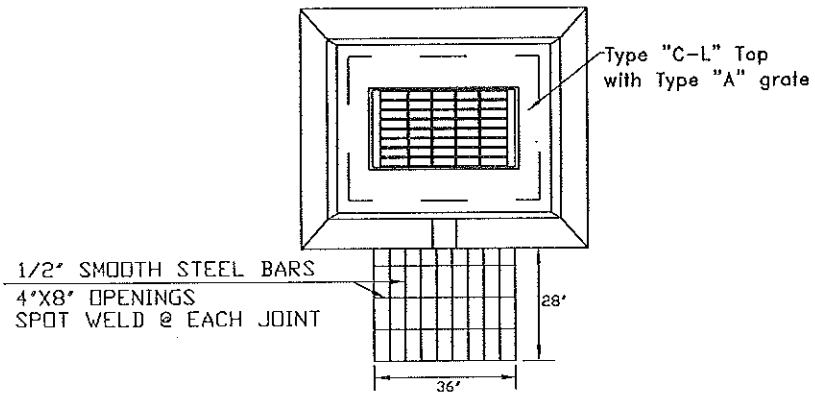
NOTES:

1. BAFFLE CONSTRUCTION TO BE OF CAST MATERIAL WITH THRU HOLES AT OUTLET FLOW LINE, OR MORTARED CEMENT BLOCKS WITH WEEP HOLES AT OUTLET FLOW LINE.
2. SEE STANDARD DETAIL FOR TYPE 'C' CATCH BASIN FRAME & COVER, CAST IRON MANHOLE FRAME & COVER, MISCELLANEOUS MANHOLE DETAILS, AND TYPICAL TRENCH SECTION.
3. FIBERGLASS OR PLASTIC STEPS SHALL BE INSTALLED AT 12" VERTICAL INTERVALS FROM 12" (MAX.) BELOW TOP OF FRAME ELEVATION TO 12" (MAX.) ABOVE INSIDE BOTTOM ELEVATION AT EACH ACCESS POINT. (SEE STEP DETAIL, IN MISCELLANOUS MANHOLE DETAILS)
4. STRUCTURE SHALL MEET HS-20 LOADING CRITERIA.
5. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**SEDIMENT STRUCTURE TYPE II CATCH BASIN** OR APPROVED EQUAL	DETAIL D-21

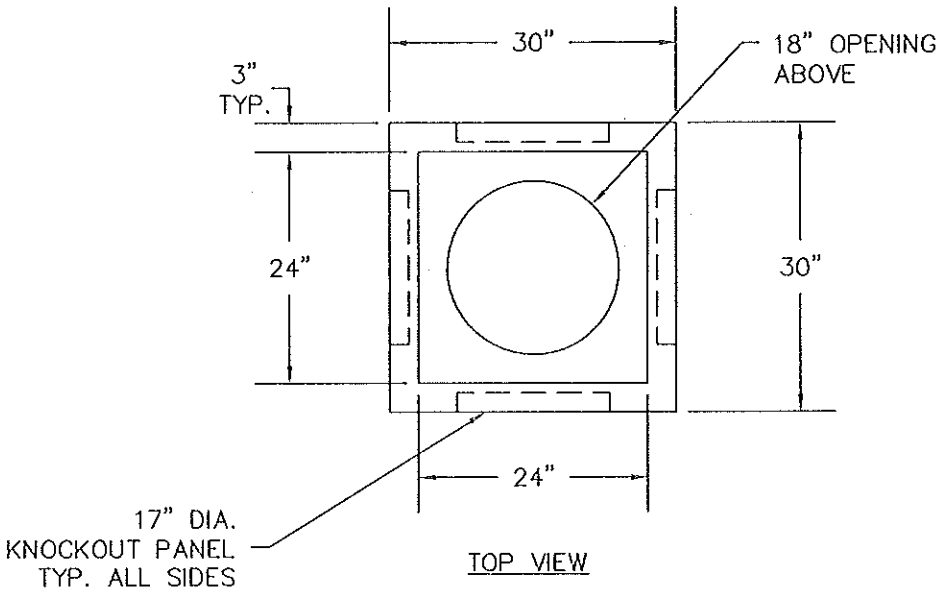


CIRCULAR FASTENERS TO BE SPOT WELDED AS DEPICTED AND ANCHOR BOLTED INTO FRONT OF STRUCTURE WITH MINIMUM 1/2"X3" STAINLESS STEEL BOLTS

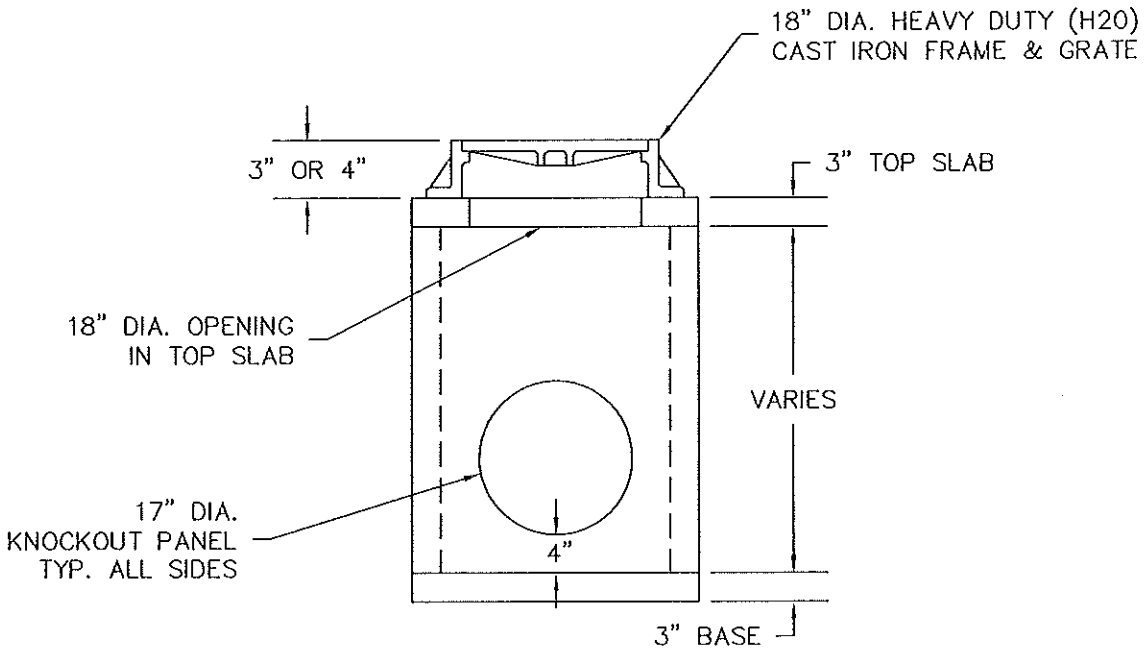


NOTES:
1. ALL EXTERIOR WALLS OF CATCH BASIN WILL BE FACED, PAINTED AND GROUTED WITH CEMENT.
2. LADDER RUNGS SHALL BE PROVIDED IN CATCH BASIN WHERE HEIGHT OF STRUCTURE EXCEEDS 8 FEET.
3. IN SANDY SOILS APPLY DAMPPROOFING ON ALL FOUR WALLS.
4. RED BRICK NOT TO BE USED.
5. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.
6. WHERE MASONARY CONCRETE UNITS ARE USED CORBELLING WILL BE PERMITTED. MAX. CORBEL TO BE 3". NO PROJECTION SHALL EXTEND INSIDE OF LIMITS.
7. ADJUST FRAME ELEVATION WITH BRICKS 6" TO 12"
8. PROVIDE MINIMUM 2'-0" OF COVER OVER PIPE AT BELLS
9. PROVIDE 6" OF 3/4" TRAPROCK UNDER EACH STRUCTURE AT BASE.
10. TOP GRATE SHALL BE SECURED TO FRAME.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**DETENTION BASIN OUTLET** NOT TO SCALE	DETAIL D-22



TOP VIEW



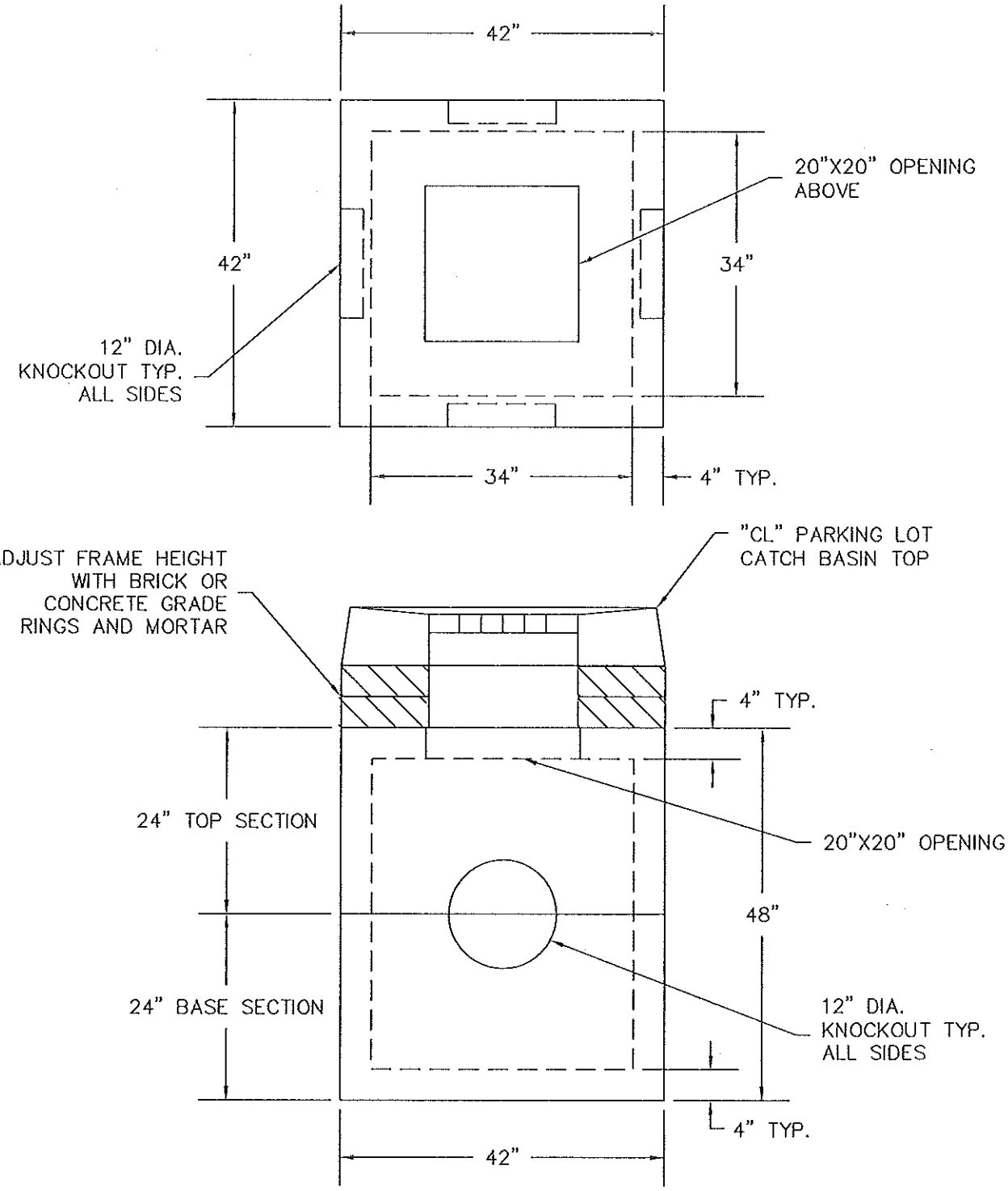
SIDE VIEW

NOTES:

1. STRUCTURE SHALL CONFORM TO SPECIFICATIONS FOR 2'X2' YARD DRAIN FROM UNITED CONCRETE OR ARROW CONCRETE WITH SIMILAR DIMENSIONS.
2. MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0" UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
3. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS 20 LOADING.
4. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**PRECAST YARD DRAIN** NOT TO SCALE	DETAIL D-23

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**VERTICAL PIPE DRAIN** NOT TO SCALE	DETAIL D-24

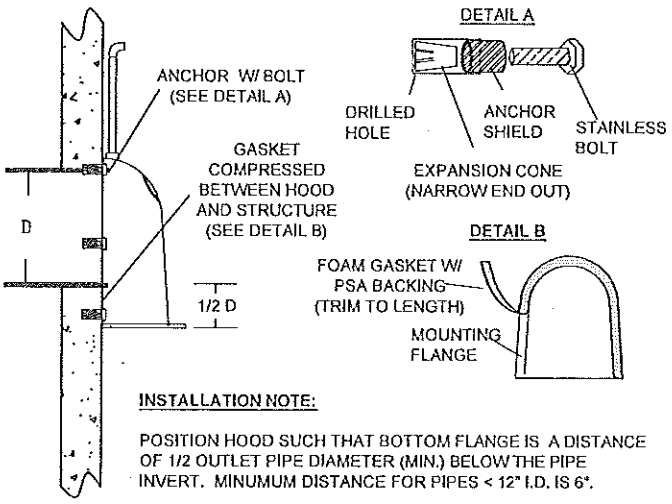


NOTES:

1. PRECAST CONCRETE STRUCTURE SHALL CONFORM TO SPECIFICATIONS OF ARROW CONCRETE PARKING LOT SUMP UNIT OR EQUAL.
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS 20 LOADING.
3. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.

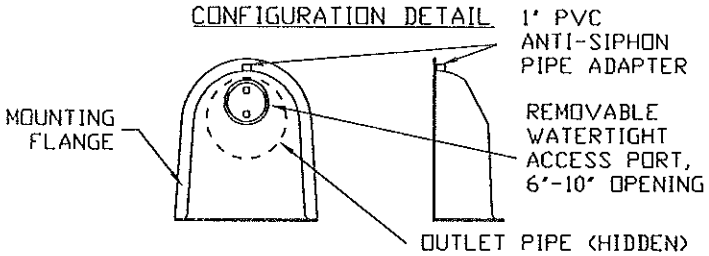
SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**PARKING LOT DRAIN** NOT TO SCALE	DETAIL D--25

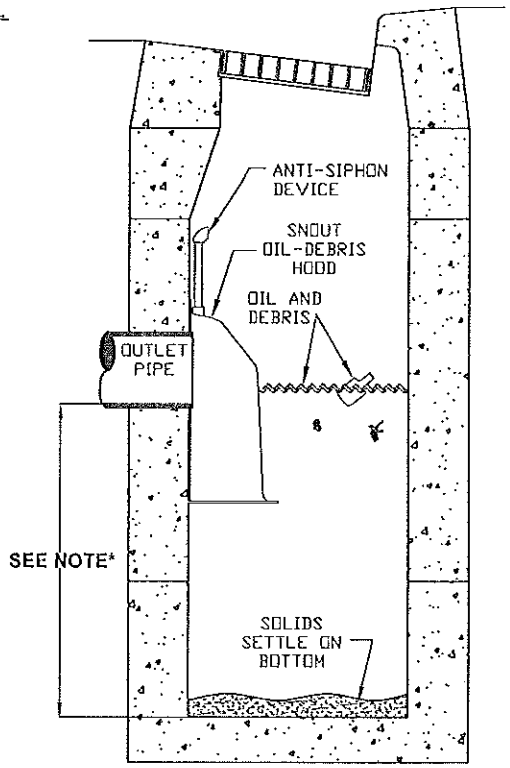
INSTALLATION DETAIL



INSTALLATION NOTE:

POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINUMUM DISTANCE FOR PIPES < 12" I.D. IS 6".





*NOTE: SUMP DEPTH SHALL BE 2.5-3X DIAM. OF OUTLET PIPE AND 4' MIN.

SNOUT OIL-WATER-DEBRIS SEPARATOR

NOTES:

1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC., 53 MT. ARCHER RD., LYME, CT 06371, (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 354-7585, WEB SITE: www.bestmp.com OR PRE-APPROVED EQUAL
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
   A. INSTALLATION INSTRUCTIONS
   B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
   C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
   D. 3/8" STAINLESS STEEL BOLTS
   E. ANCHOR SHIELDS

US Patent # 6126817

SUFFIELD TOWN ENGINEER STANDARD DETAIL FEBRUARY 2010	**TRAP HOOD OUTLET** NOT TO SCALE	DETAIL D-26