

STANDARD CONSTRUCTION DETAILS

**DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANTVILLE
WESTCHESTER COUNTY, NEW YORK
10570**

**PREPARED IN THE OFFICE OF THE SUPERINTENDENT OF PUBLIC
WORKS/VILLAGE ENGINEER**



**ADOPTED BY
MAYOR AND BOARD OF TRUSTEES RESOLUTION NO. 2022-324
DATED NOVEMBER 14, 2022**

OCTOBER 25, 2022

TABLE OF CONTENTS

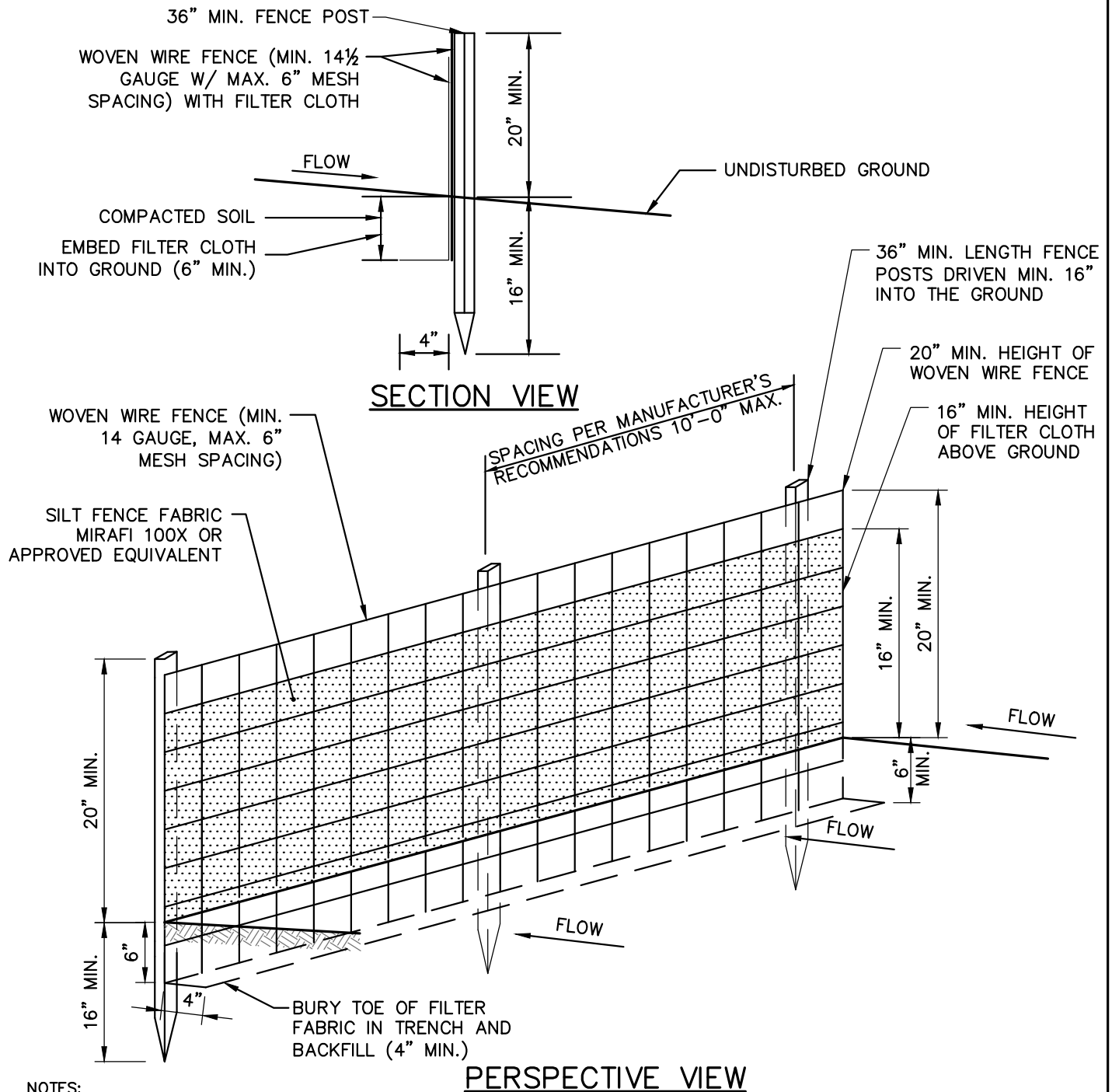
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<u>Standard Detail (SD) Description</u>	<u>Standard Detail (SD) No.</u>
Silt Fence.....	SD-1A
Temporary Construction Fence.....	SD-1B
Stabilized Construction Entrance	SD-1C
Curb Inlet Protection	SD-1D
Curb Inlet Protection (within Village Right-of-Way and/or Existing Pavement)	SD-1E
Drain Inlet Protection (No Curb) (within Village Right-of-Way and/or Existing Pavement)	SD-1F
Stone and Block Inlet Protection	SD-1G
Temporary Material/Soil Stockpile Area	SD-1H
Tree Protection	SD-1I
Temporary Chain Link Construction Fence	SD-1J
HDPE & PVC Pipe Trench Backfill (2 Pages)	SD-2A
CIP, DIP & RCP Pipe Trench Backfill (2 Pages)	SD-2B
Water Main Improvements.....	SD-2C
Water Service Lines (2 Inches and Less).....	SD-2D
Precast Concrete Catch Basin with Top Slab (4 Pages)	SD-3A
Catch Basin Frames and Grates (with and without Curb Piece) (2 Pages)	SD-3B
Precast Concrete Drainage Manhole (4 Pages).....	SD-3C
Storm or Sanitary Sewer Cleanout (within Right-of-Way).....	SD-3D
Storm and Sanitary Sewer Manhole Castings	SD-3E
Masonry (Concrete) Block Type 'F' Concrete Catch Basin.....	SD-3F
Precast Concrete Sanitary Sewer Manhole (4 Pages)	SD-4A
Sanitary Sewer Lateral Saddle Connection to Existing Mains Excluding Clay (3 Pages)	SD-4B
Sanitary Sewer Lateral Wye or Tee Connection to Existing Clay Mains (2 Pages)	SD-4C
Sanitary Sewer Manhole Inside Drop Connections	SD-4D
Sanitary Sewer Manhole Drop Connection Steel Straps	SD-4E
Sanitary Sewer Manhole (Type 'A' – Concrete Block).....	SD-4F
Sanitary Sewer Lateral Disconnection at Sewer Main	SD-4G
Cast-in-Place Concrete Curb	SD-5A
Granite Curb	SD-5B
Cast-in-Place Concrete Monolithic Curb and Sidewalk (2 Pages)	SD-5C
Asphalt Concrete and Portland Concrete Sidewalks (2 Pages).....	SD-5D
Asphalt Concrete and Portland Concrete Driveways (4 Pages)	SD-5E
Cast-in-Place Concrete Curb Ending	SD-5F
Asphalt Concrete Curb.....	SD-5G
Embedded Detectable Warning Units	SD-5H
Pedestrian Crosswalk (Reflectorized Paint w/ Glass Beads).....	SD-5I

Cast-in-Place Concrete Traversable Curb.....	SD-5J
NYSDOT Sidewalk and Curb Ramp Details (9 Pages).....	608-01
Asphalt Concrete Pavement (Local Road Pavement Section).....	SD-6A
Roadway Pavement Replacement for CIP, Granite or Monolithic Concrete Curb	SD-6B
Roadway Pavement Replacement (2 Pages).....	SD-6C
Utility Services and Mains Roadway Pavement Restoration.....	SD-6D
Traffic Sign Post (Steel Channel with Z-Bars).....	SD-7A
Corrugated W-Beam Guiderail.....	SD-7B
Rubble Stone Masonry Retaining Wall (for Non-Surcharged Loads).....	SD-8A
Maintenance and Protection of Traffic (MPT) Notes (2 Pages)	SD-9
Decorative Street Lighting Standard (Luminaire, Lamp Post, Foundation) (2 Pages).....	SD-10
Set, Adjust or Abandon Manhole & Catch Basin Castings & Water Valve Boxes	SD-11
Chain Link Fence (Black Vinyl Coated).....	SD-12



NOTES:

1. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER 'T' OR 'U' TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS.
7. SILT FENCE SHALL NOT BE USED IN DRAINAGE WAYS.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

SILT FENCE

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

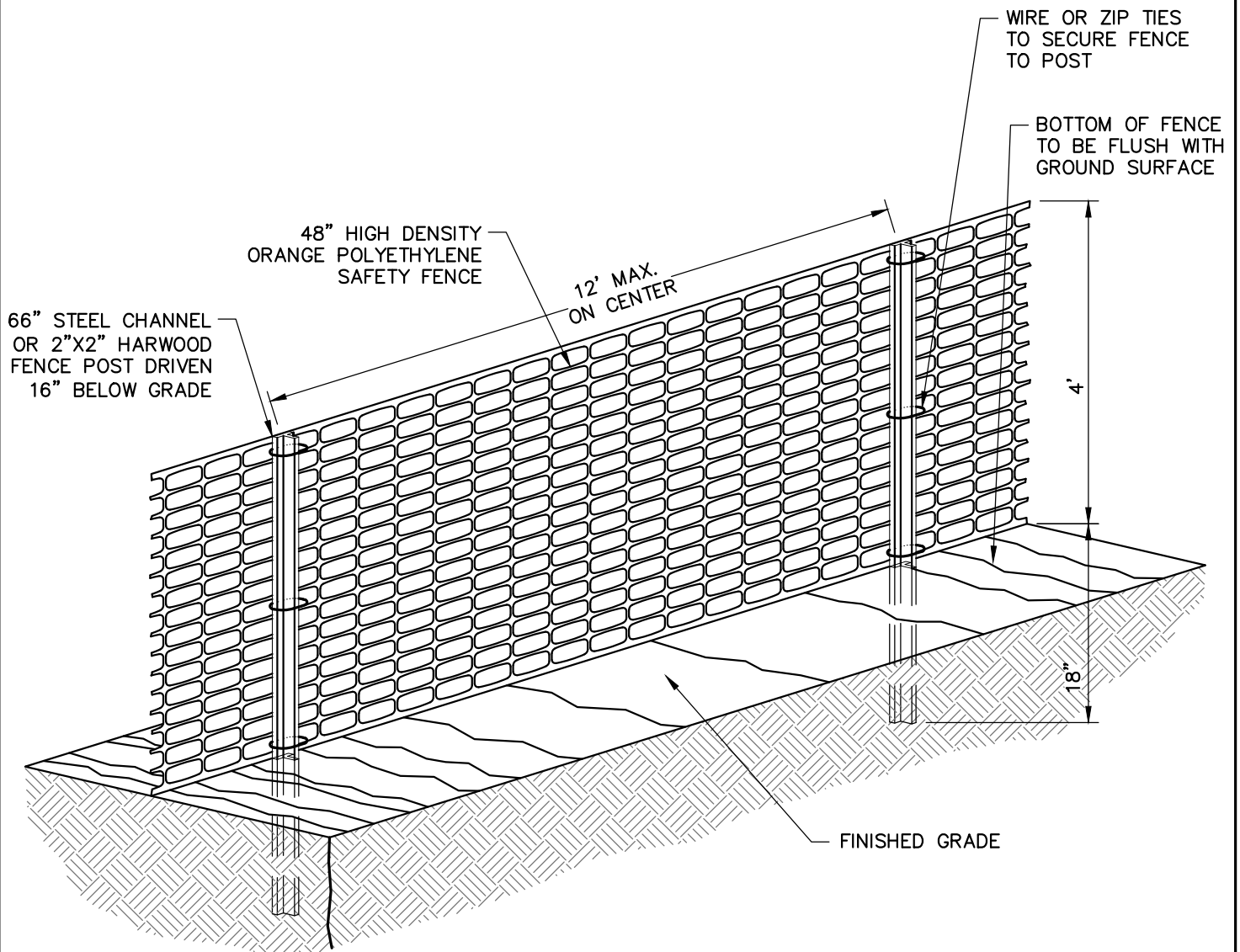
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
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VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-1A



NOTES:

1. MAINTAIN TENSION ACROSS FULL HEIGHT AND LENGTH OF FENCE.
2. PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE.
3. FENCE SHALL BE HIGH DENSITY ORANGE POLYETHYLENE SAFETY FENCE AS MANUFACTURED BY EROSION RUNNER® OR APPROVED EQUAL.

VILLAGE OF PLEASANTVILLE
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TEMPORARY CONSTRUCTION FENCE

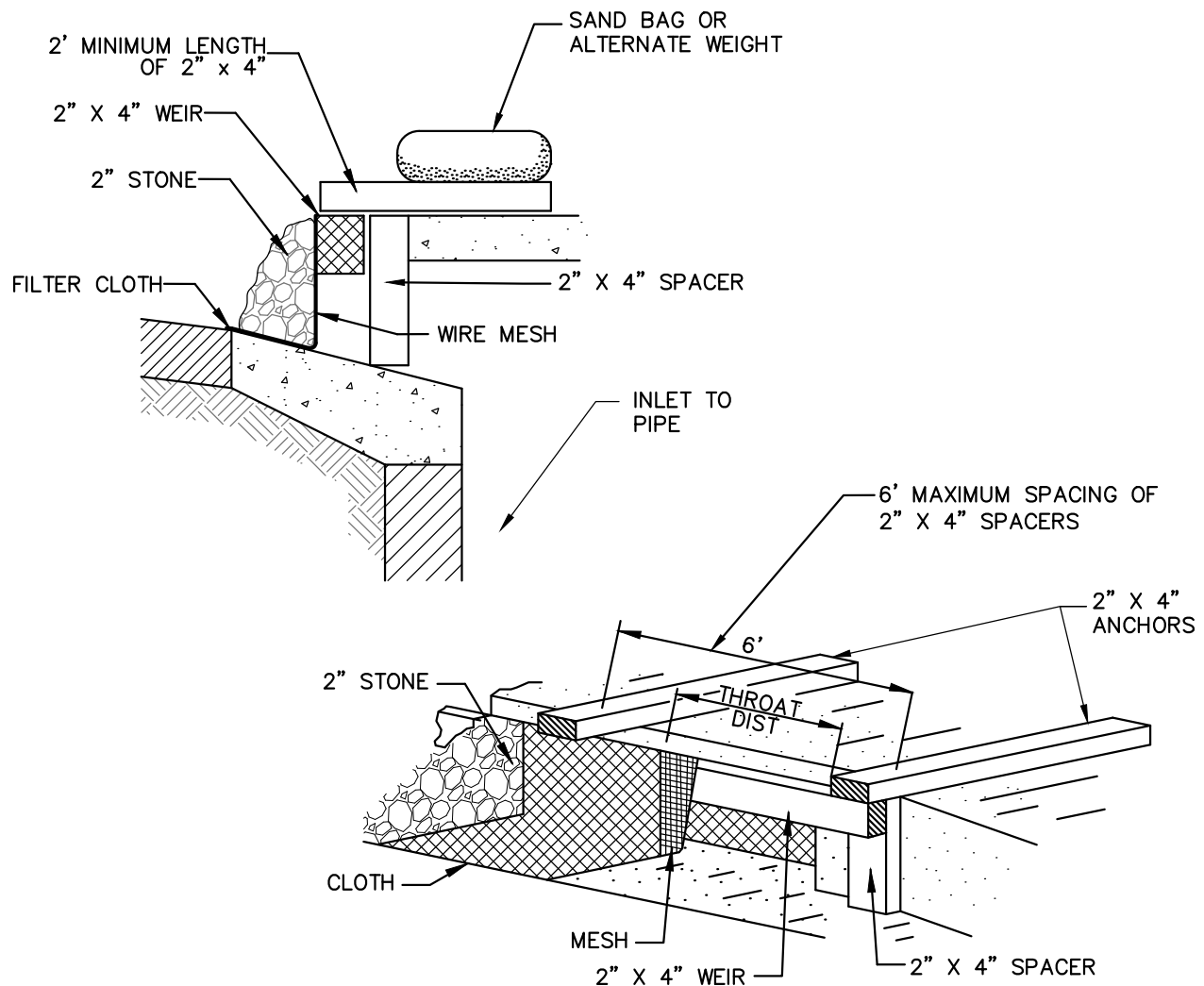
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SD-1B



NOTES:

1. FILTER FABRIC SHALL HAVE AN AOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" X 4" WEIR.
4. THE WEIR SHALL BE SECURELY NAILED TO 2" X 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" X 4" ANCHORS 2' LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
6. MAXIMUM DRAINAGE AREA SHALL BE 1 ACRE.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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CURB INLET PROTECTION

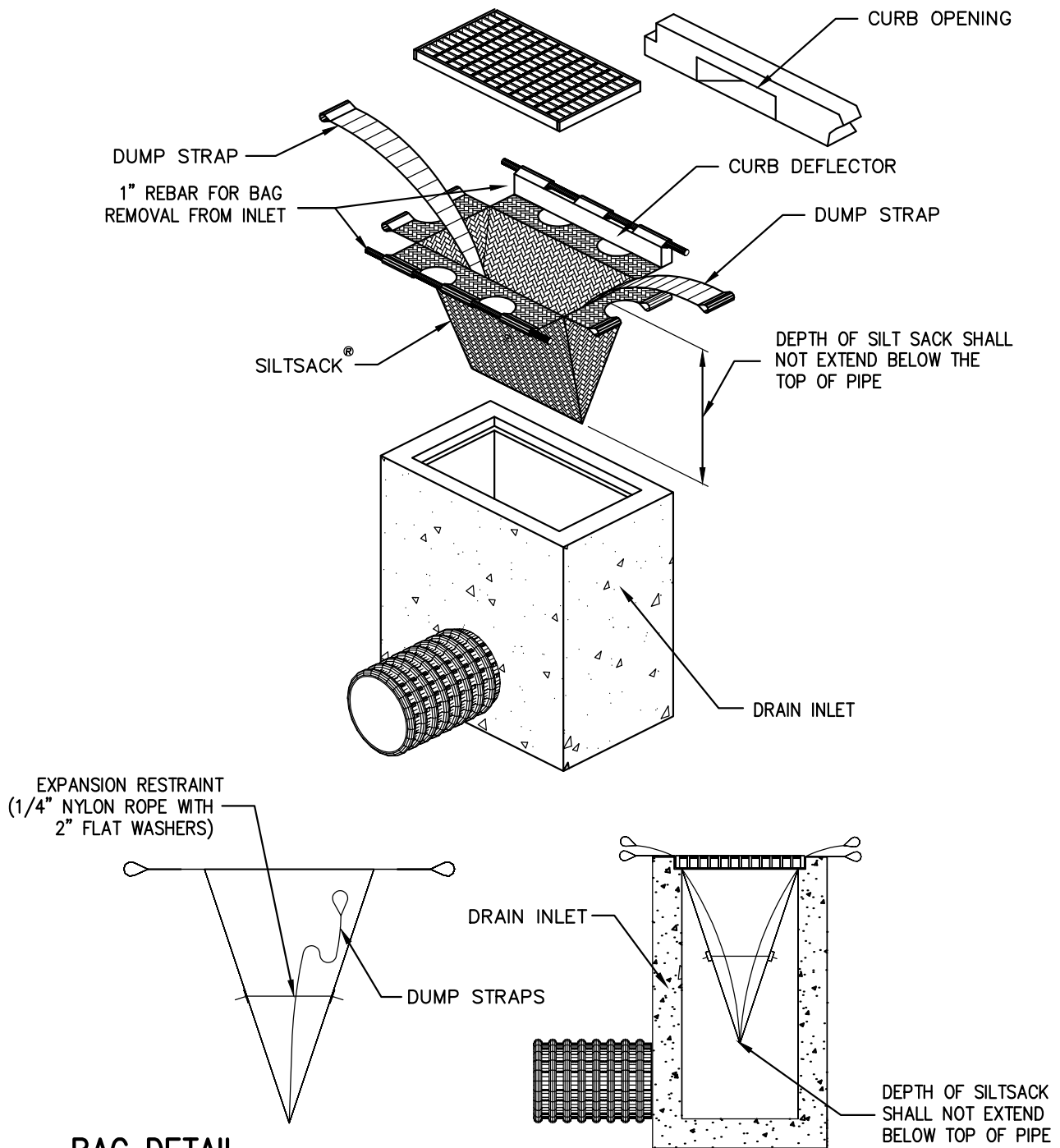
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SD-1D



BAG DETAIL

HI-FLOW SILTSACK AS MANUFACTURED BY ACF
ENVIRONMENTAL OR APPROVED EQUAL®

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	274 x 237 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	27% x 12%
PUNCTURE	ASTM D-4833	754 LBS
MULLEN BURST	ASTM D-3786	420 PSI (MINIMUM)
TRAPEZOID TEAR	ASTM D-4533	65 LBS x 56 LBS
UV RESISTANCE @ 500 HOURS	ASTM D-4355	99 %
APPARENT OPENING SIZE (AOS)	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	250 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	3.45 SEC -1

INSTALLATION DETAIL

NOTES:

1. INLET PROTECTION SHALL BE THE SILT SACK® "HIGH FLOW", TYPE 'B' (WITH CURB DEFLECTOR; OVERFLOWS INCLUDED) MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL.
2. CATCH BASIN INSERTS COLOR SHALL BE ORANGE, AND CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 209.11010024.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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CURB INLET PROTECTION (WITHIN VILLAGE RIGHT-OF-WAY AND/OR EXISTING PAVEMENT)

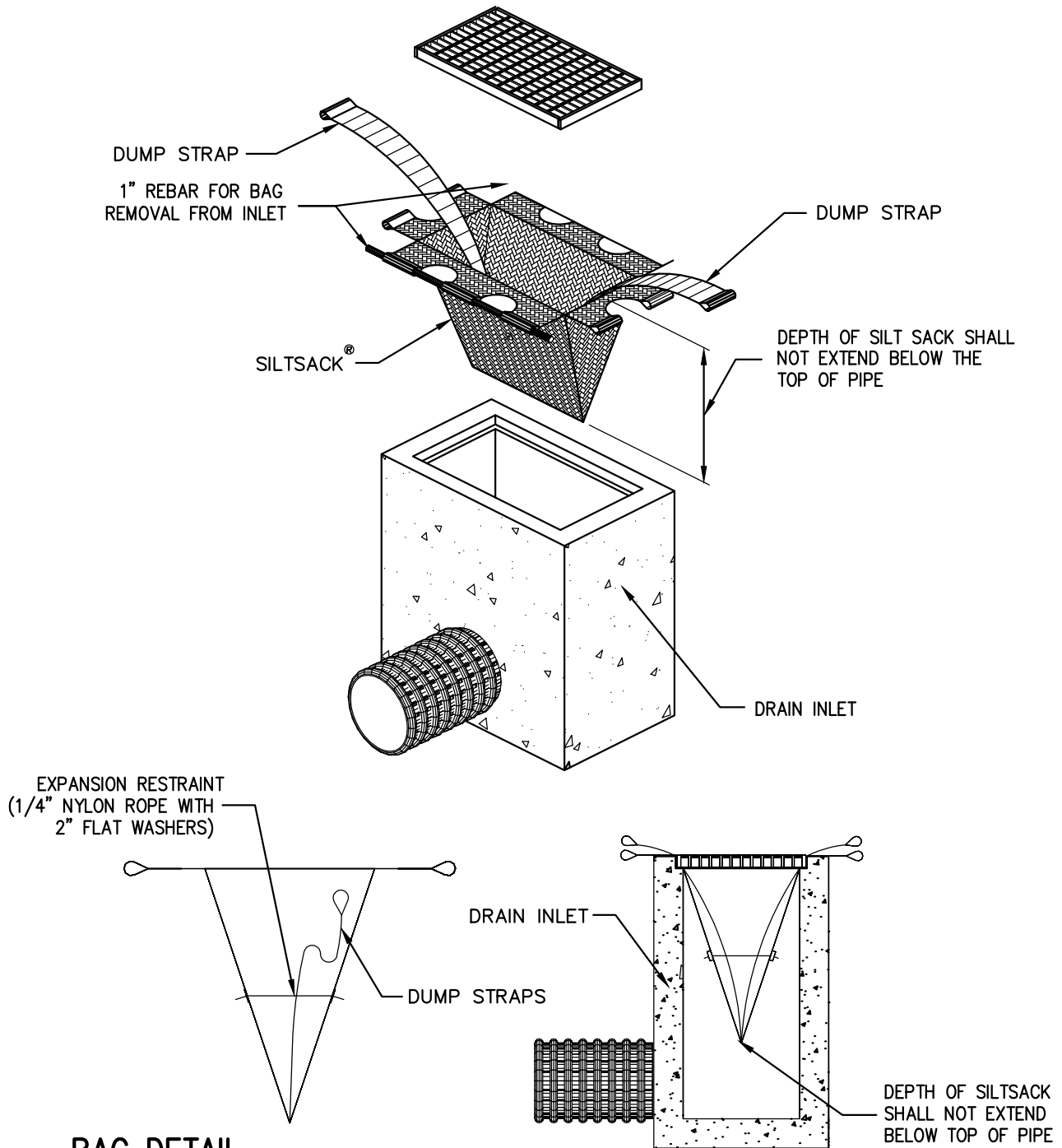
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VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 11/27/2022

SD-1E



BAG DETAIL

HI-FLOW SILTSACK AS MANUFACTURED BY ACF
ENVIRONMENTAL OR APPROVED EQUAL®

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	274 x 237 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	27% x 12%
PUNCTURE	ASTM D-4833	754 LBS
MULLEN BURST	ASTM D-3786	420 PSI (MINIMUM)
TRAPEZOID TEAR	ASTM D-4533	65 LBS x 56 LBS
UV RESISTANCE @ 500 HOURS	ASTM D-4355	99 %
APPARENT OPENING SIZE (AOS)	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	250 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	3.45 SEC -1

INSTALLATION DETAIL

NOTES:

1. INLET PROTECTION SHALL BE THE SILT SACK® "HIGH FLOW", TYPE 'A' (NO CURB DEFLECTOR; OVERFLOWS INCLUDED) MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL.
2. CATCH BASIN INSERTS COLOR SHALL BE ORANGE, AND CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 209.11010024.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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**DRAIN INLET PROTECTION (NO CURB)
(WITHIN VILLAGE RIGHT-OF-WAY
AND/OR EXISTING PAVEMENT)**

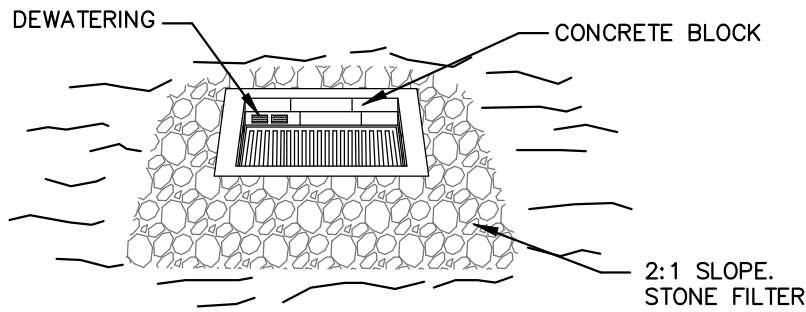
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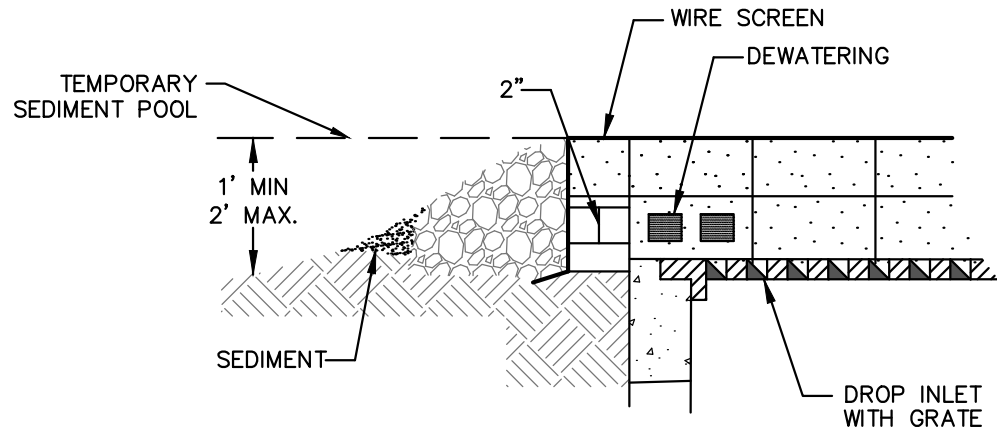
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REV: 11/27/2022

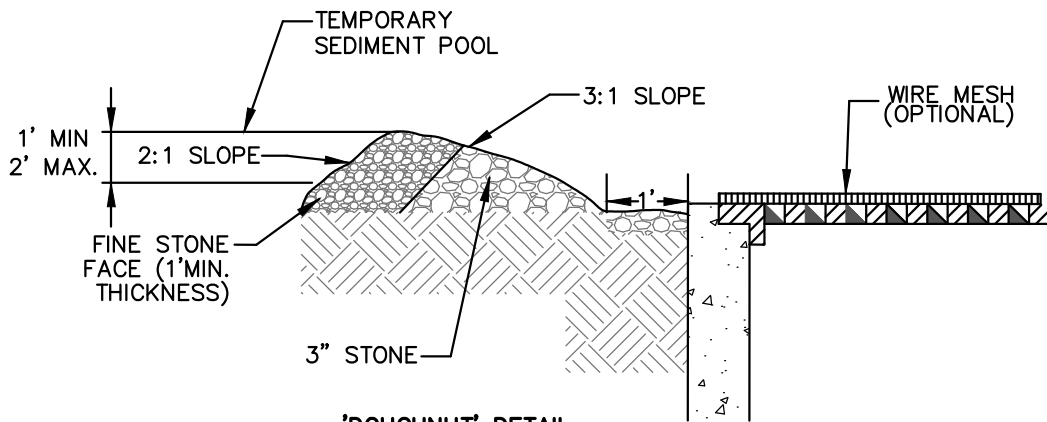
SD-1F



STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL



'DOUGHNUT' DETAIL

NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION
2. SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
3. HARDWARE CLOTH OR ½" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
4. USE CLEAN STONE OR GRAVEL ½ TO ¾ INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER. FOR STONE STRUCTURES ONLY. A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED
5. AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
6. MAXIMUM DRAINAGE AREA: 1 ACRE

VILLAGE OF PLEASANTVILLE
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**STONE AND BLOCK
DRAIN INLET PROTECTION**

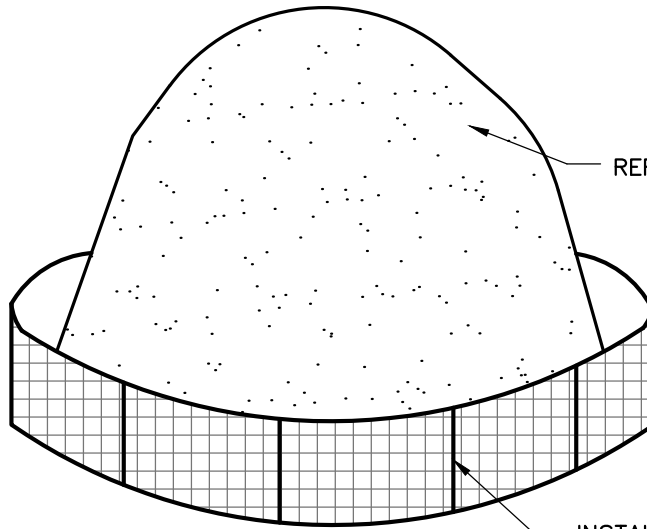
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SD-1G



REFER TO NOTE 5

INSTALL SILT FENCE AS SHOWN
ON THE VILLAGE STANDARD SILT FENCE
CONSTRUCTION DETAIL

NOTES:

1. ALL STOCKPILES SHALL BE SURROUNDED BY SILT FENCING.
2. STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
3. REPAIR/OR REPLACE ANY SILT FENCING DAMAGED DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
4. STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS AND APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
5. STOCKPILE AREAS TO BE COVERED WITH A HEAVY DUTY, HIGH STRENGTH, PUNCTURE RESISTANT, REINFORCED POLYETHYLENE COVER AS REQUIRED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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**TEMPORARY MATERIAL/SOIL
STOCKPILE AREA**

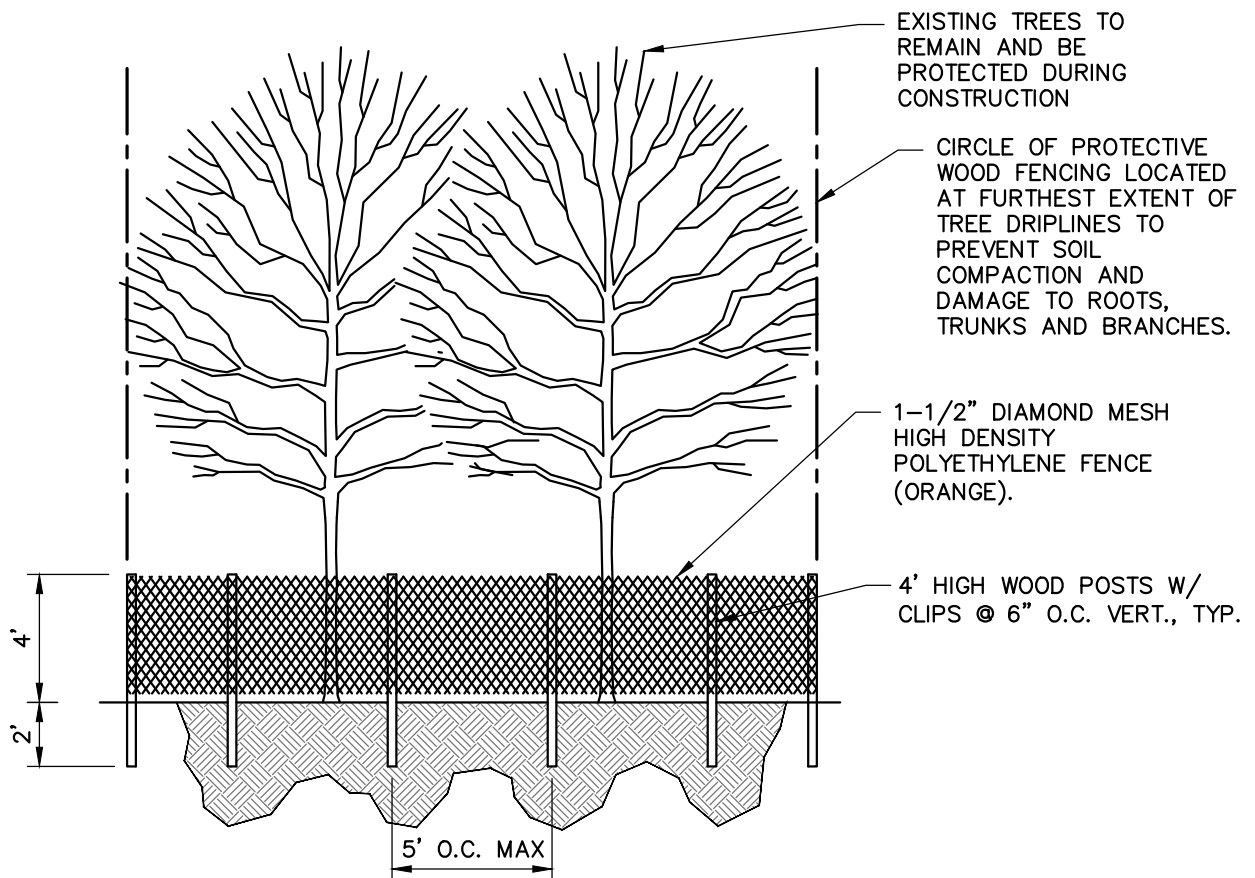
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SD-1H



NOTES:

1. LOCATE TREE PROTECTION FENCING AS SHOWN ON PLANS APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE AND BUILDING INSPECTOR.
2. NO MATERIAL OR EQUIPMENT SHALL BE STORED OR STOCKPILED WITHIN THE AREA SURROUNDED BY TREE PROTECTION FENCING.
3. FENCE MUST REMAIN AND BE MAINTAINED THROUGHOUT ENTIRE BUILDING PHASES DURING WHICH CONSTRUCTION MAY AFFECT TREES.
4. PRIOR TO AND/OR DURING CONSTRUCTION, ADDITIONAL PROTECTIVE MEASURES SHALL BE INSTALLED, AS ORDERED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER AND/OR BUILDING INSPECTOR.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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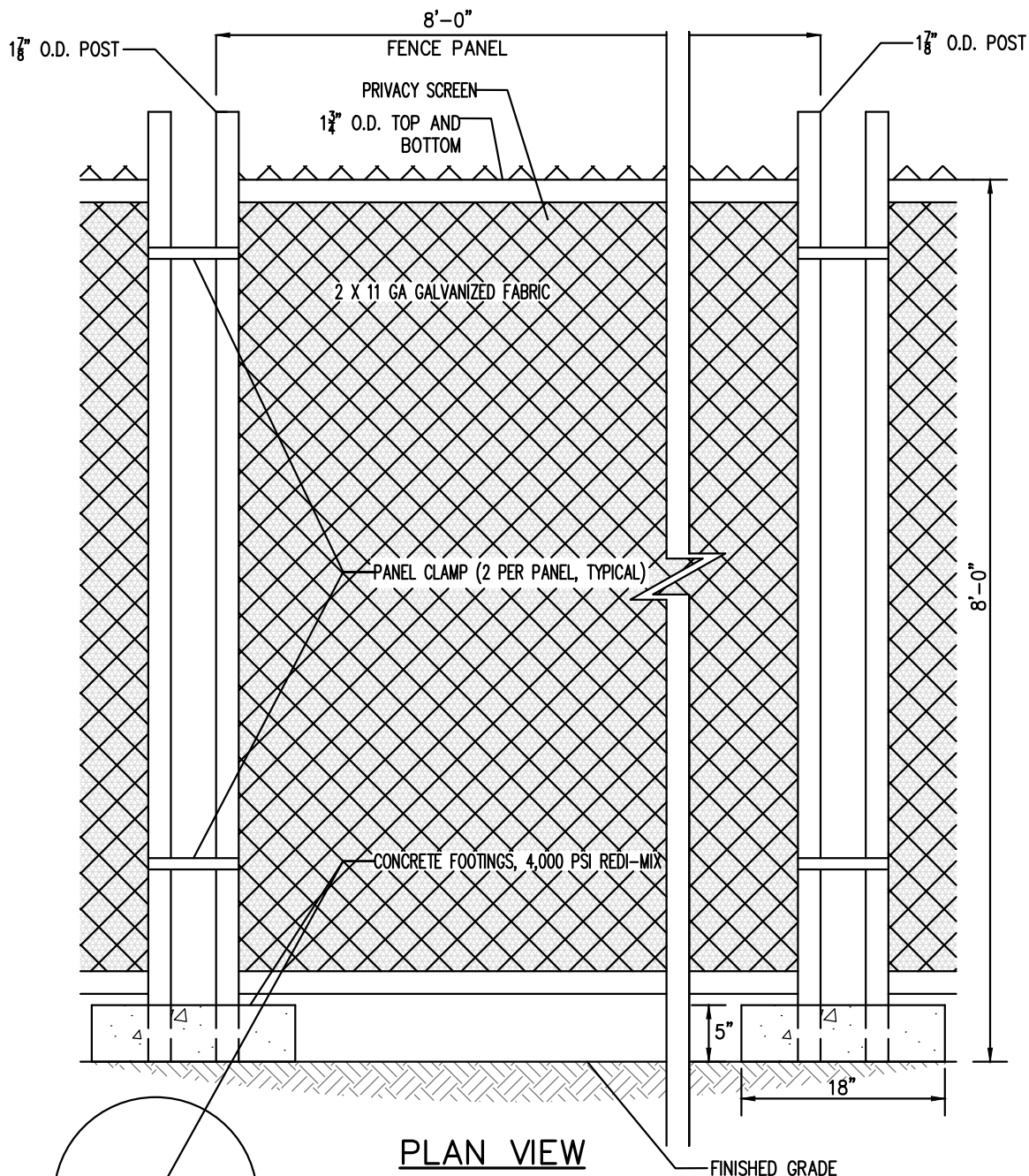
TREE PROTECTION

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WESTCHESTER COUNTY
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX
SD-11



PLAN VIEW
8' HIGH CONSTRUCTION
FENCE PANEL

NOTES:

1. CONTRACTOR SHALL PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
2. CONTRACTOR SHALL INSTALL GREEN PRIVACY SCREENING FABRIC OR APPROVED EQUAL AROUND THE PERIMETER OF THE TEMPORARY CONSTRUCTION FENCING.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SAMPLES OF THE PRIVACY SCREENING TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER AND BUILDING INSPECTOR FOR REVIEW AND APPROVAL.

VILLAGE OF PLEASANTVILLE
 STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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**TEMPORARY CHAIN LINK
 CONSTRUCTION FENCE**

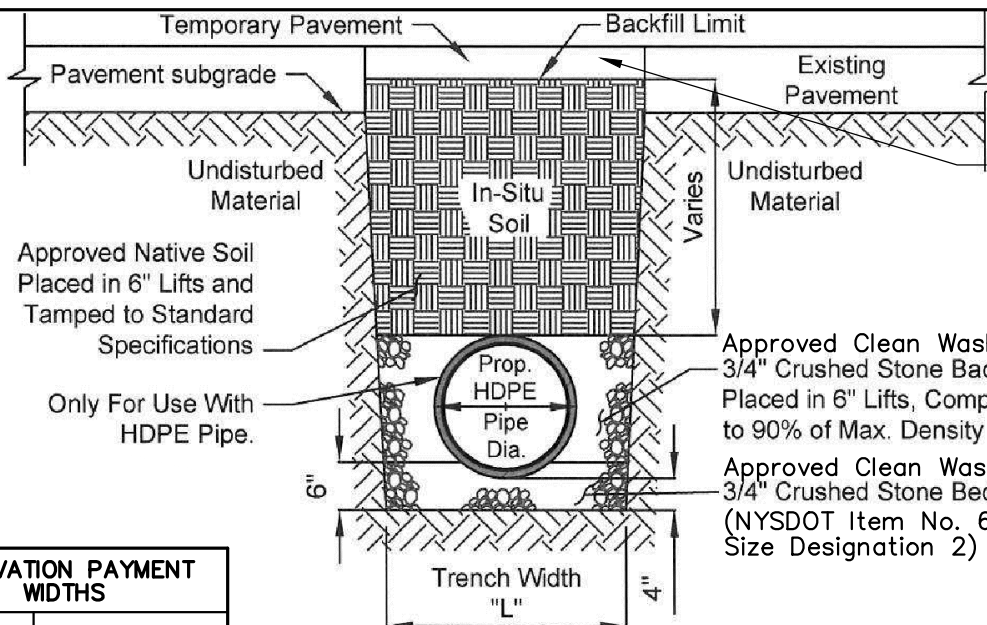
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SD-1J



Refer to Village Asphalt Concrete Pavement and Roadway Pavement Replacement Standard Construction Details

Approved Clean Washed 3/4" Crushed Stone Backfill Placed in 6" Lifts, Compacted to 90% of Max. Density
Approved Clean Washed 3/4" Crushed Stone Bedding (NYSDOT Item No. 623.12, Size Designation 2)

EXCAVATION PAYMENT WIDTHS	
PIPE INSIDE DIAMETER (I.D.)	TRENCH WIDTH "L"
3	3'-0"
4	3'-0"
6	3'-0"
8	3'-0"
10	3'-0"
12	3'-0"
14	3'-6"
15	3'-6"
16	3'-6"
18	3'-6"
20	4'-0"
24	4'-0"
30	4'-6"
36	5'-0"
42	5'-6"
48	6'-0"
54	6'-6"
60	7'-0"
64	7'-6"

NOTE:

When Temporary Pavement is to be placed over CDBM, Control Density Backfill Material shall be extended to bottom of Temporary Pavement layer.

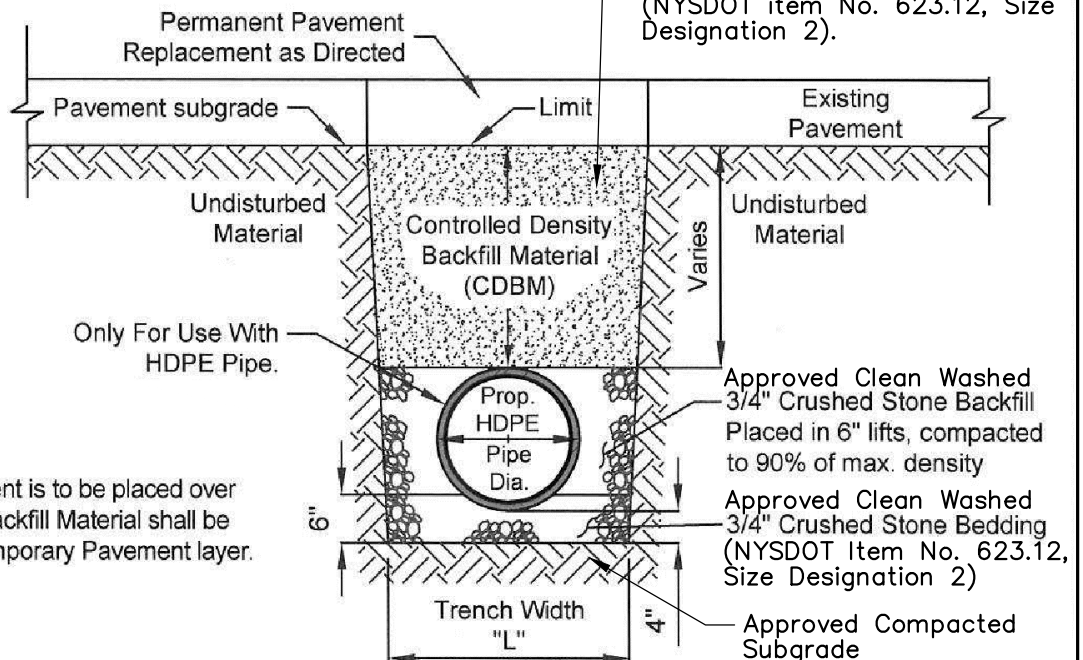
PVC or HDPE Pipe Trench Backfill (Utilizing In-Situ Soil)

Scale = N.T.S.
(As Approved by the
Superintendent of Public
Works/Village Engineer)

NOTE:

The use of In-Situ soil as trench backfill requires the placement and maintenance of Temporary Pavement.

(Refer to Note 1)
If Groundwater is Encountered, Backfill Material Shall be Clean Washed 3/4" Crushed Stone (NYSDOT item No. 623.12, Size Designation 2).



PVC or HDPE Pipe Trench Backfill (Utilizing CDBM & Select Fill)

Scale = N.T.S.

VILLAGE OF PLEASANTVILLE
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HDPE & PVC PIPE TRENCH BACKFILL (PAGE 1 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-2A_HDPE & PVC Pipe Trench Backfill.dwg



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SD-2A

NOTES:

1. FOR PIPE TRENCH INSTALLATION, CONTROLLED LOW STRENGTH MATERIAL (CLSM – NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE USED AS THE PIPE TRENCH BACKFILL MATERIAL. THE CLSM SHALL EXTEND AS INDICATED ON THE PERTINENT VILLAGE STANDARD CONSTRUCTION DETAIL(S) TO THE BOTTOM OF THE ASPHALT CONCRETE BASE COURSE. SUBMITTALS OF THE CLSM (NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE PROVIDED TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER FOR REVIEW AND APPROVAL.
2. UNLESS OTHERWISE NOTED, THE EXCAVATION AND EMBANKMENT AND TRENCH AND CULVERT EXCAVATION SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTIONS 203 AND 206 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCE FOR THE SEWER LINE EXISTS. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER (IN WRITING) OF CONFLICTING ELEVATIONS, ALLOWING THE ENGINEER ADEQUATE TIME TO REVISE GRADES WITHOUT NECESSITATING REMOVAL AND RECONSTRUCTION OF WORK ALREADY COMPLETED BY THE CONTRACTOR.
4. THE TOP PAYMENT LINE FOR TRENCH EXCAVATION SHALL BE PER NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 206 LAST REVISED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
5. THE MINIMUM TRENCH WIDTH MAY BE ADJUSTED TO (O.D.+12"), IF CONTROLLED LOW STRENGTH MATERIAL (CLSM) IS TO BE USED AS BACKFILL.
6. BEDDING BELOW THE PIPE INVERT SHALL BE REQUIRED FOR ALL SOIL CONDITIONS (i.e. STABLE, UNSTABLE, UNSUITABLE AND ROCK). PLEASE REFER TO THIS DETAIL FOR THE REQUIRED BEDDING MATERIAL FOR EACH SOIL CONDITION.
7. IF UNSTABLE OR UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED NEAR THE INVERT ELEVATION, A MINIMUM OF 1 FOOT AND A MAXIMUM OF 2 FEET OF MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SELECT GRANULAR FILL. ADDITIONAL PAYMENT WILL BE MADE FOR MATERIAL PLACED TO TREAT UNSTABLE OR UNSUITABLE CONDITIONS.
8. BACKFILL SHALL BE INSTALLED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 203 LAST REVISED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
9. REFER TO PROOF ROLLING RESTRICTIONS IN §203–3.13E OF NYSDOT STANDARD SPECIFICATIONS.
10. AT THE CONTRACTOR'S RISK, CONSTRUCTION EQUIPMENT MAY BE ALLOWED TO CROSS OVER A PIPE INSTALLATION USING RAMPS CONSTRUCTED AS SHOWN IN NYSDOT PIPE TRENCH METHOD B-1 OR B-2 COMPACTED IN CONFORMANCE WITH THE REQUIREMENTS OF §203–3.12 OF NYSDOT STANDARD SPECIFICATIONS. ALL RAMPS WHICH CANNOT BE USED AS PART OF THE COMPLETED EMBANKMENT ARE INSTALLED AND REMOVED AT THE CONTRACTOR'S EXPENSE. ANY PIPE OR STRUCTURE DAMAGED OR DISTURBED BY THESE ACTIVITIES MUST BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
11. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER SHALL INSPECT THE PIPE TRENCH PRIOR TO AND DURING BACKFILL. THE OWNER, OWNER'S REPRESENTATIVE AND/OR CONTRACTOR SHALL CONTACT THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER AT (914) 769-3883 OR EMAIL SUPERINTENDENTPUBLICWORKS@PLEASANTVILLE-NY.GOV AND DPW@PLEASANTVILLE-NY.GOV (24) HOURS PRIOR TO START OF THIS WORK.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

**HDPE & PVC PIPE TRENCH BACKFILL
(PAGE 2 OF 2)**

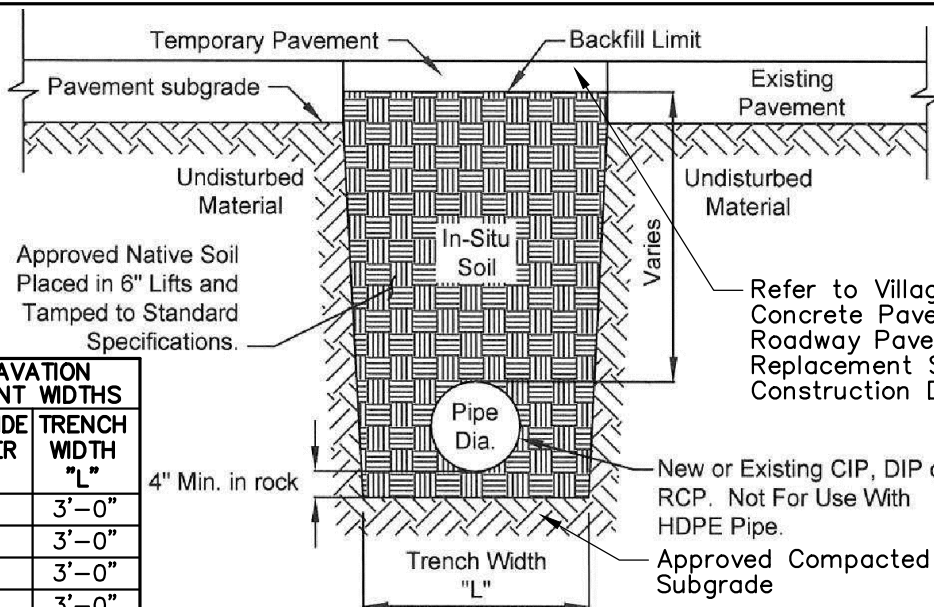
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-2A_HDPE & PVC Pipe Trench Backfill.dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-2A



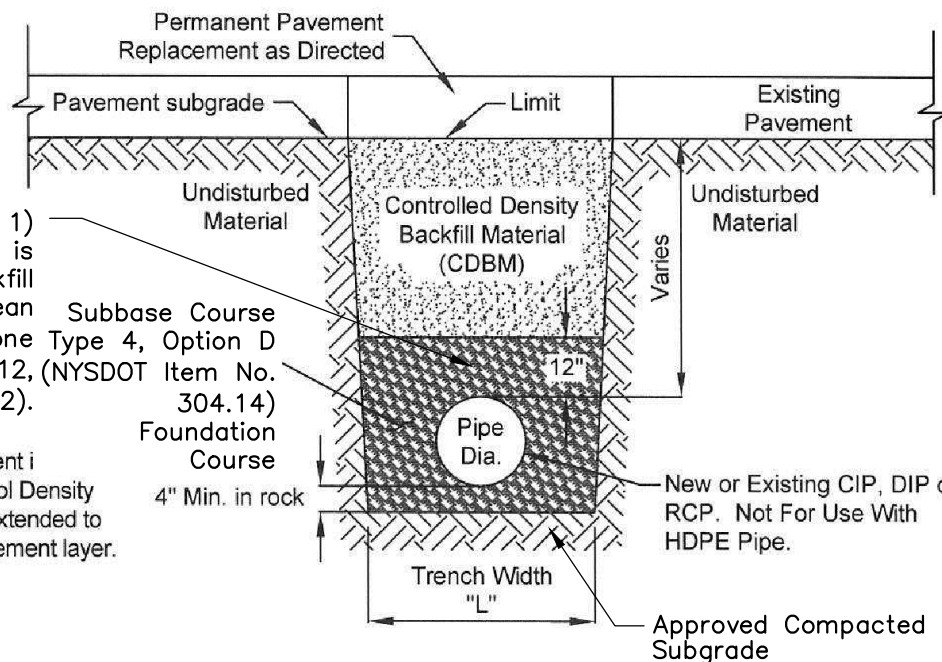
EXCAVATION PAYMENT WIDTHS	
PIPE INSIDE DIAMETER (I.D.)	TRENCH WIDTH "L"
3	3'-0"
4	3'-0"
6	3'-0"
8	3'-0"
10	3'-0"
12	3'-0"
14	3'-6"
15	3'-6"
16	3'-6"
18	3'-6"
20	4'-0"
24	4'-0"
30	4'-6"
36	5'-0"
42	5'-6"
48	6'-0"
54	6'-6"
60	7'-0"
64	7'-6"

Pipe Trench Backfill (Utilizing In-Situ Soil)

Scale = N.T.S.
(As Approved by the
Superintendent of Public
Works/Village Engineer)

NOTE:

The use of In-Situ soil as trench backfill requires the placement and maintenance of Temporary Pavement.



(Refer to Note 1)
If Groundwater is
Encountered, Backfill
Material Shall be Clean
Washed 3/4" Crushed Stone Type 4, Option D
(NYSDOT item No. 623.12, (NYSDOT Item No.
Size Designation 2).

NOTE:

When Temporary Pavement is
placed over CDBM, Control Density
Backfill Material shall be extended to
bottom of Temporary Pavement layer.

Pipe Trench Backfill (Utilizing CDBM & Select Fill)

Scale = N.T.S.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

CIP, DIP & RCP PIPE TRENCH BACKFILL (PAGE 1 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-2B_CIP, DIP & RCP Pipe Trench Backfill.dwg



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SD-2B

NOTES:

1. FOR PIPE TRENCH INSTALLATION, CONTROLLED LOW STRENGTH MATERIAL (CLSM – NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE USED AS THE PIPE TRENCH BACKFILL MATERIAL. THE CLSM SHALL EXTEND AS INDICATED ON THE PERTINENT VILLAGE STANDARD CONSTRUCTION DETAIL(S) TO THE BOTTOM OF THE ASPHALT CONCRETE BASE COURSE. SUBMITTALS OF THE CLSM (NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE PROVIDED TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER FOR REVIEW AND APPROVAL.
2. UNLESS OTHERWISE NOTED, THE EXCAVATION AND EMBANKMENT AND TRENCH AND CULVERT EXCAVATION SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTIONS 203 AND 206 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCE FOR THE SEWER LINE EXISTS. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER (IN WRITING) OF CONFLICTING ELEVATIONS, ALLOWING THE ENGINEER ADEQUATE TIME TO REVISE GRADES WITHOUT NECESSITATING REMOVAL AND RECONSTRUCTION OF WORK ALREADY COMPLETED BY THE CONTRACTOR.
4. THE TOP PAYMENT LINE FOR TRENCH EXCAVATION SHALL BE PER NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 206 LAST REVISED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
5. THE MINIMUM TRENCH WIDTH MAY BE ADJUSTED TO (O.D.+12"), IF CONTROLLED LOW STRENGTH MATERIAL (CLSM) IS TO BE USED AS BACKFILL.
6. BEDDING BELOW THE PIPE INVERT SHALL BE REQUIRED FOR ALL SOIL CONDITIONS (i.e. STABLE, UNSTABLE, UNSUITABLE AND ROCK). PLEASE REFER TO THIS DETAIL FOR THE REQUIRED BEDDING MATERIAL FOR EACH SOIL CONDITION.
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VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

**CIP, DIP & RCP PIPE
TRENCH BACKFILL (PAGE 2 OF 2)**

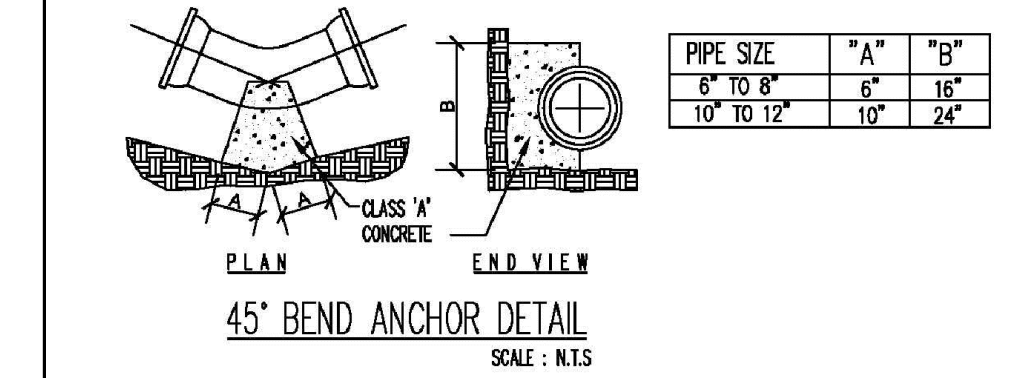
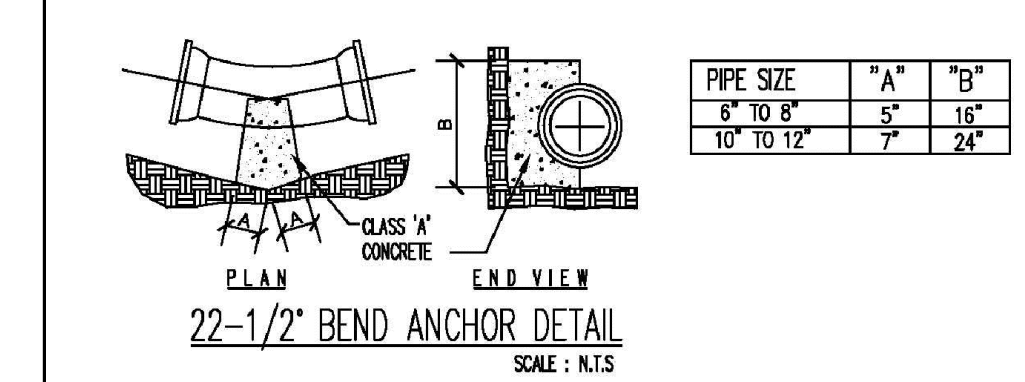
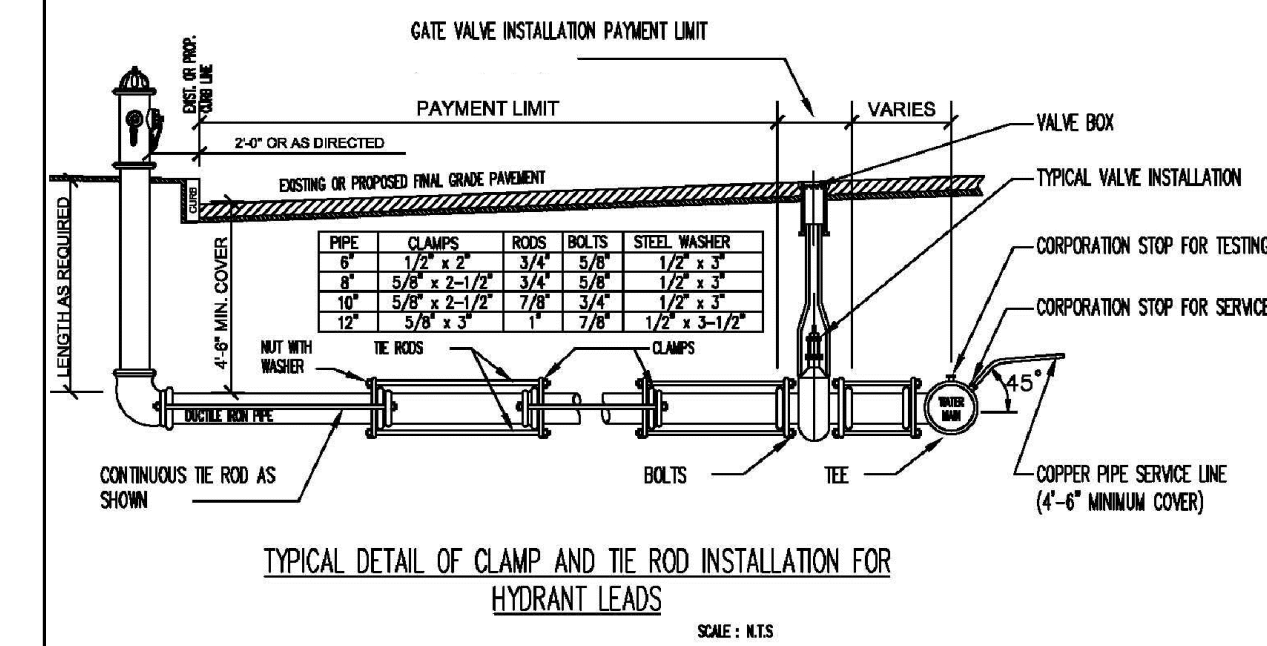
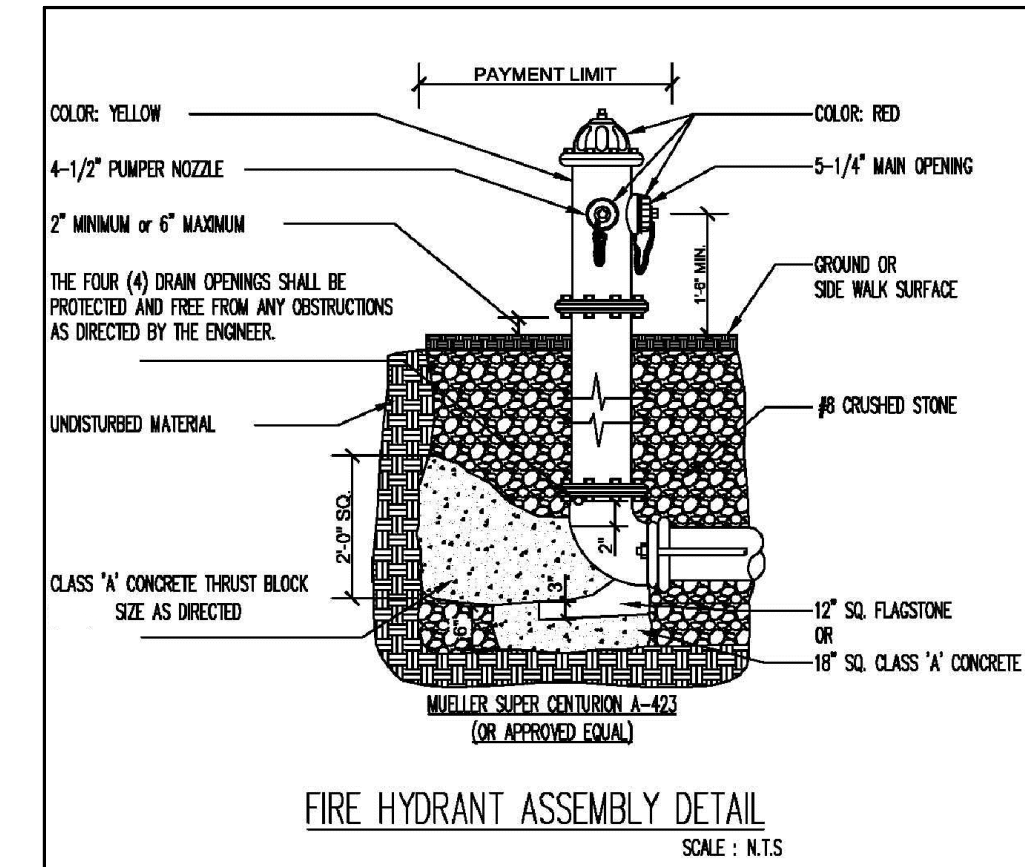
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-2B_CIP, DIP & RCP Pipe Trench Backfill.dwg



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SD-2B



NOTES:

- EXISTING UTILITIES TO BE RAISED / LOWERED TO FINISH GRADE. (INCLUDES CFS, D'S, W'S, VALVES, HYDRANTS, ETC.)
- PROVIDE 18\"
- PROVIDE 10\"
- EXISTING ON SITE WATER SYSTEM IS TO BE PRESSURE TESTED AND DISINFECTED.
- EXISTING SANITARY SEWER MANHOLES THAT WILL BE CONNECTED TO APE TO BE RECONSTRUCTED AS REQUIRED WITH 4\"
- SEE THRUST BLOCK DETAILS FOR WATER MAIN SYSTEM.
- ALL WATER MAINS TO BE TESTED AND CHLORINATED IN ACCORDANCE WITH AWWA STANDARDS C 900-93 SECTION 4 & C901-99 EXCEPT FOR SECTION 4.4.2 (TABLET METHOD). ALL TESTING MUST BE PERFORMED, RESULTS CERTIFIED BY A NYS PE AND SENT TO AND APPROVED BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH BEFORE WATER MAIN IS PUT INTO SERVICE.
- EXISTING WATER MAINS THAT ARE BEING REPLACED WITH NEW WATER MAINS SHALL BE REMOVED OR ABANDONED AFTER THE NEW MAIN HAS BEEN PLACED IN SERVICE.

PRESSURE AND LEAKAGE TESTING :

ALL PIPE INSTALLED SHALL BE PRESSURED TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C900-93 SECTION 4.

DISINFECTION :

ALL NEW, CLEANED OR REPAIRED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901-99, EXCEPT FOR SECTION 4.4.2 (TABLET METHOD).

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

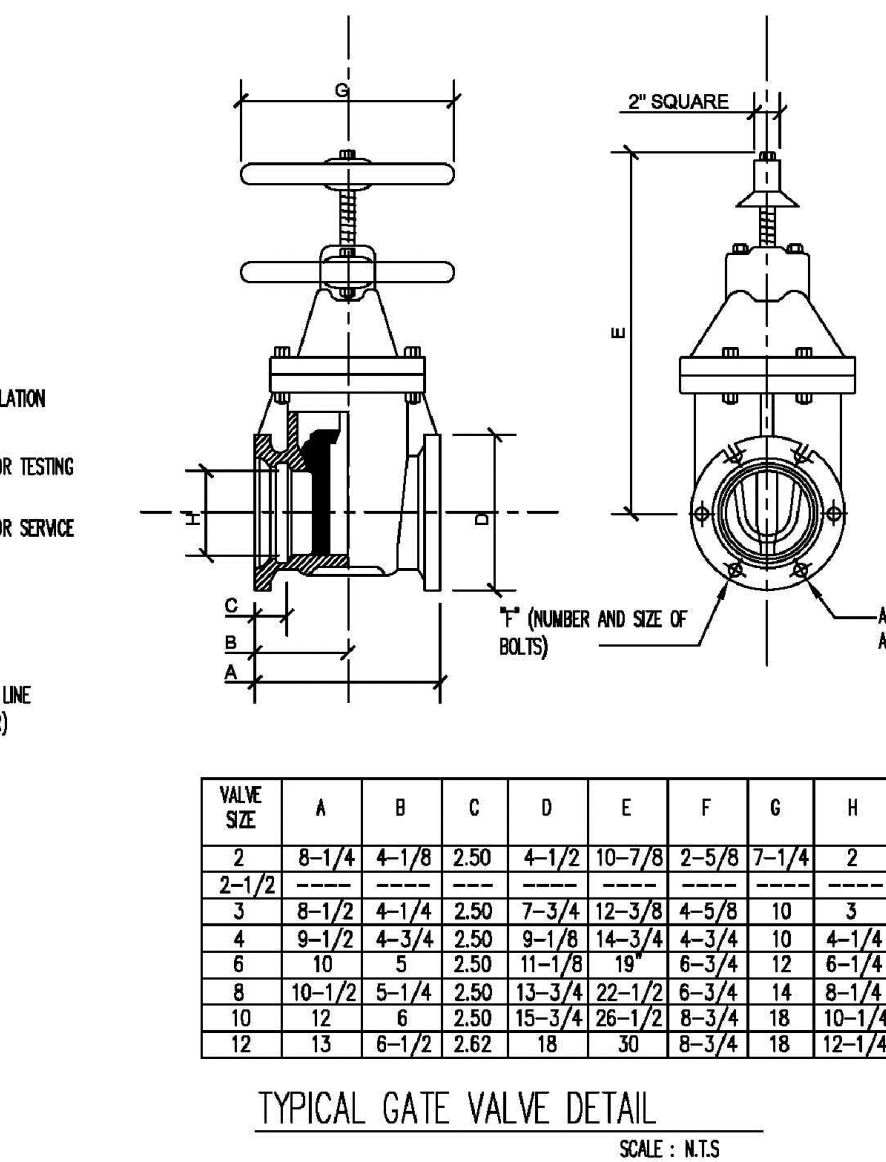
IN CHARGE OF ARC, PE

CHECKED BY ARC, PE

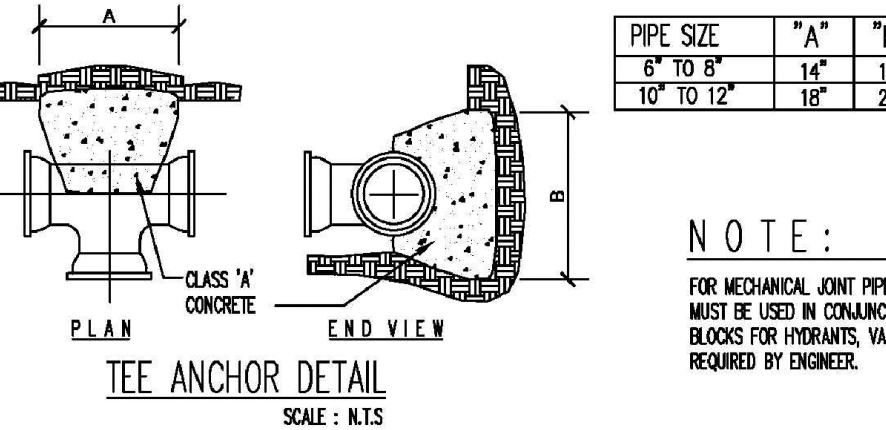
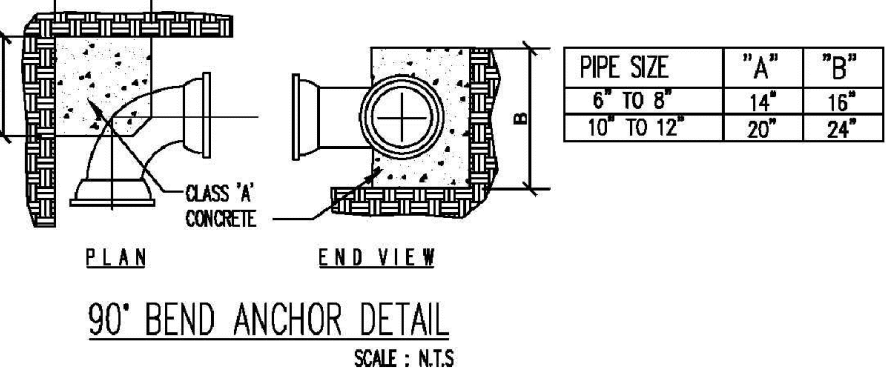
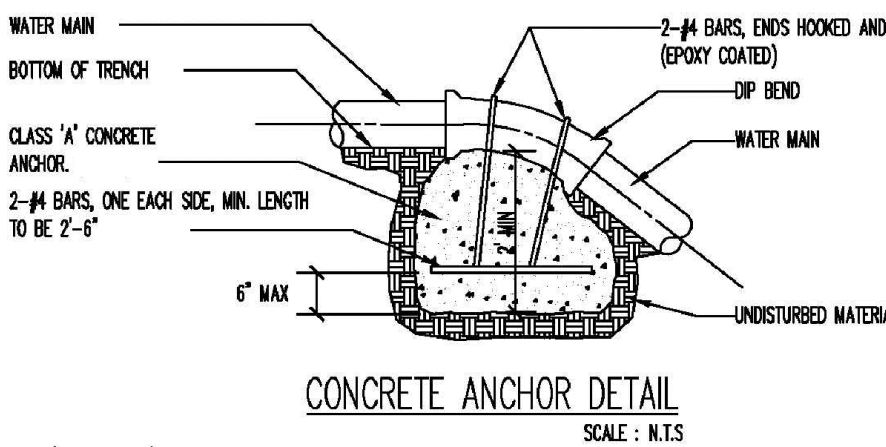
MADE BY ARC, PE

NOTES:

- THE CONTRACTORS SHALL PAINT THE HYDRANTS WITH TWO COATS OF PAINT WHERE INDICATED ON THE DETAIL. VILLAGE STANDARD COLORS SHALL CONSIST OF "FIRE HYDRANT RED" (NOL210) AND "YELLOW" (NOL68) AS MANUFACTURED BY "RUSTOLEUM".
- UNLESS OTHERWISE SPECIFIED HYDRANTS & HYDRANT LEADS, VALVES, BODS, PIPES AND CAPS SHALL BE ANCHORED AS SHOWN ABOVE. AFTER INSTALLATION, ROADS AND CLAMPS SHOULD BE THOROUGHLY COVERED WITH ASPHALT OR OTHER ACCEPTABLE CORROSION - RETARDING MATERIAL. IN GENERAL, THE METHOD AND TYPES OF MATERIAL REQUIRED TO INSTALL CLAMPS AND TIE RODS SHALL BE IN ACCORDANCE WITH THE LATEST NATIONAL FIRE PROTECTION STANDARDS. NO DIRECT PAYMENT WILL BE MADE, PAYMENT SHALL BE INCLUDED IN THE APPROPRIATE ITEM BID.
- THE CONTRACTOR MAY SUBSTITUTE A CONCRETE SLAB IN PLACE OF THE FLASTONE AS SHOWN. PROVIDED THAT THE CONCRETE IS ALLOWED TO SET UP AT LEAST 24 HOURS PRIOR TO INSTALLING THE HYDRANT.
- REFER TO SHEETS S301 & S302 FOR ROODING AND THRUST BLOCK DETAILS.
- IF GROUNDWATER IS FOUND WITHIN SEVEN (7) FEET OF THE GROUND SURFACE, THEN HYDRANT DRAINS SHOULD BE PLOUGED. WHEN THE DRAINS ARE PLOUGED THE DRAINS MUST BE PLOUGED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANT DRAINS ARE NOT PLOUGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS OR STORM DRAINS.



1. THE LENGTH AND WIDTH OF THE CONCRETE BLOCK COMBINED WITH THE MINIMUM DEPTH AT 2\"
2. THE CAST FOR THE EXCAVATION, PLACING OF CONCRETE AND OTHER INCIDENTAL EXPENSES NECESSARY TO CONSTRUCT CONCRETE ANCHORS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE MASONRY (CLASS B). MEASUREMENTS FOR PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO THOSE DIMENSIONS AS SHOWN ON THE DETAIL.



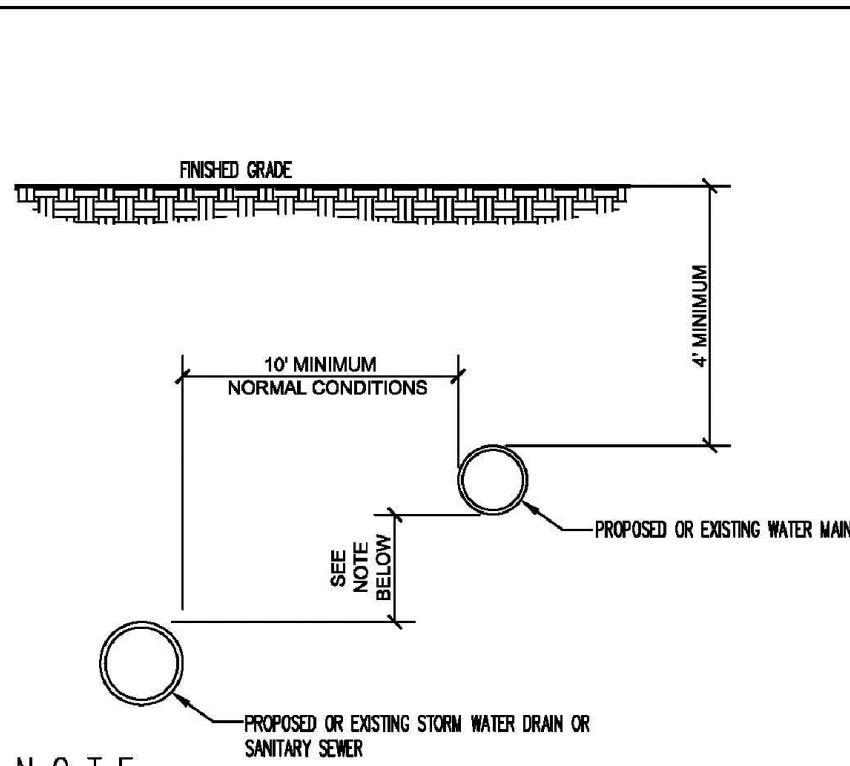
REQUIREMENTS:

- MAIN CONTROL VALVE
- WATER METER
- HOUSE SIDE CONTROL VALVE
- PRESSURE REDUCING VALVE
- CHECK VALVE
- CHECK VALVE HOSE BIB

A space of 13 inches is required for the installation of a 5/8 x 1/4 inch water meter. A space of 16 inches is required for the installation of a one (1") inch water meter.

The water service line shall enter the premise no less than 4 feet and no more than 5 feet below finished grade. The meter shall be installed in a heated space. The meter shall be placed as close as possible to the service line where it enters the structure. The water meter must remain accessible at all times (for example, it shall not be placed behind or in a location obstructed by a wall, hot water heater, oil tank, washer, dryer or boiler).

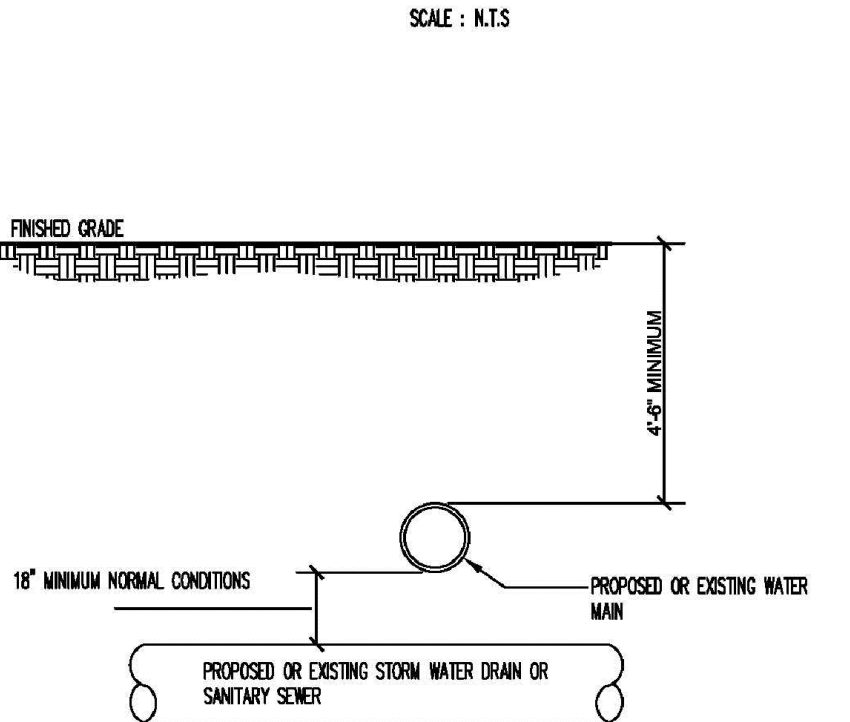
WATER METER DIAGRAM FOR NEW INSTALLATION OR UPGRADE TO AN EXISTING INSTALLATION N.T.S.



NOTE:

WHERE A 10\"

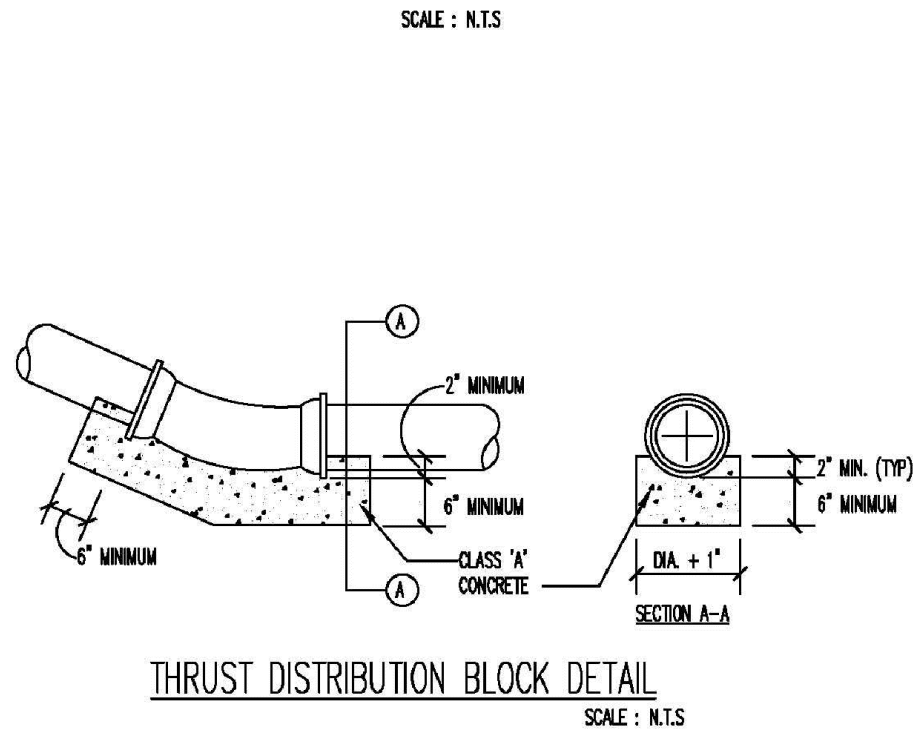
SEPARATION OF WATER MAINS AND SEWERS PARALLEL INSTALLATION



UNUSUAL CONDITIONS :

WATER MAINS PASSING UNDER SEWERS SHALL HAVE A VERTICAL CLEARANCE OF 18\"

SEPARATION OF WATER MAINS AND SEWERS CROSSING INSTALLATION

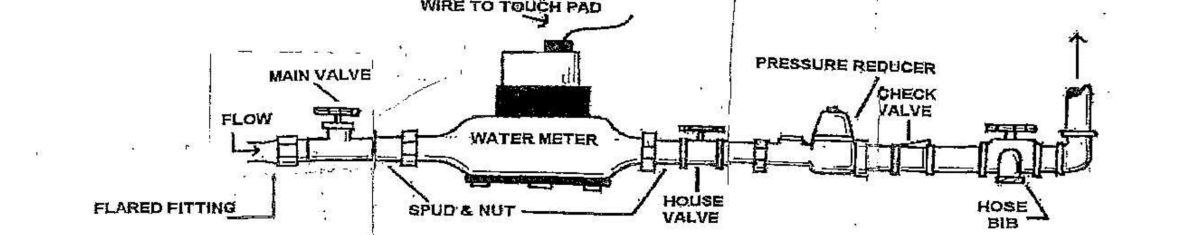


BEND		PIPE DIAMETER (d)					
		6"	8"	10"	12"	14"	16"
45°	A	2'-0"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	B	2'-0"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	C	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
	D	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"
22 30°	A	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	B	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	C	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	D	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"
11 15°	A	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	B	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	C	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	D	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"

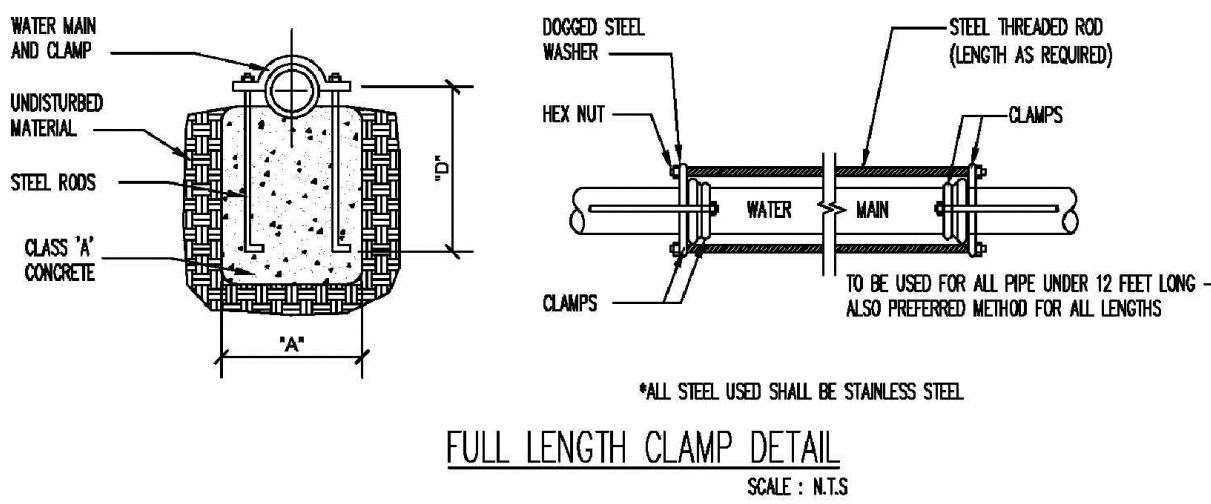
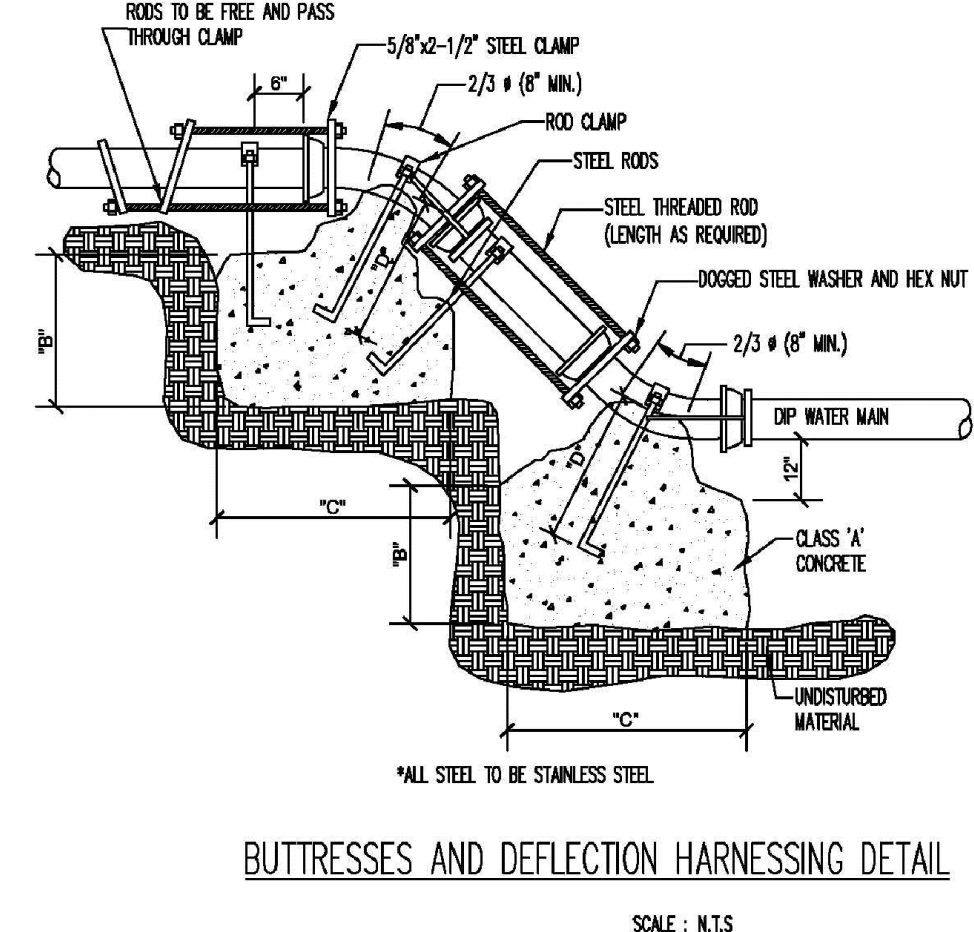
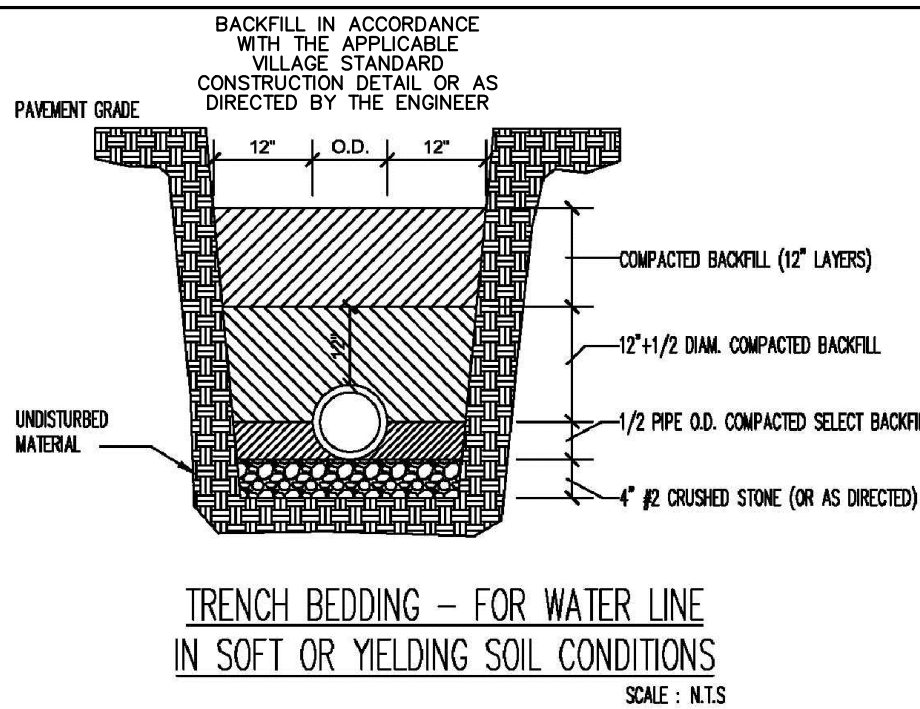
FOR MECHANICAL JOINT PIPE, TITON AND PVC PIPE TIE RODS MUST BE USED IN CONNECTION WITH CONCRETE THRUST BLOCKS FOR HYDRANTS, VALVES ON TEES, AND WHEREVER REQUIRED BY ENGINEER.

The pressure reducer and check valve shall be installed downstream of the house side control valve (ball valves are recommended for both the main control valve and house side control valve) to protect the meter and the water system. Nothing can be installed, except for the main control valve before the check valve (i.e., sprinkler system).

In all cases, irrespective of meter size, where the distance from the property line to the front wall of the premises is greater than 120 feet or where the service line has a joint in the K copper tubing, the Water District requires that the meter pit be set at or near the property line in an approved meter pit.



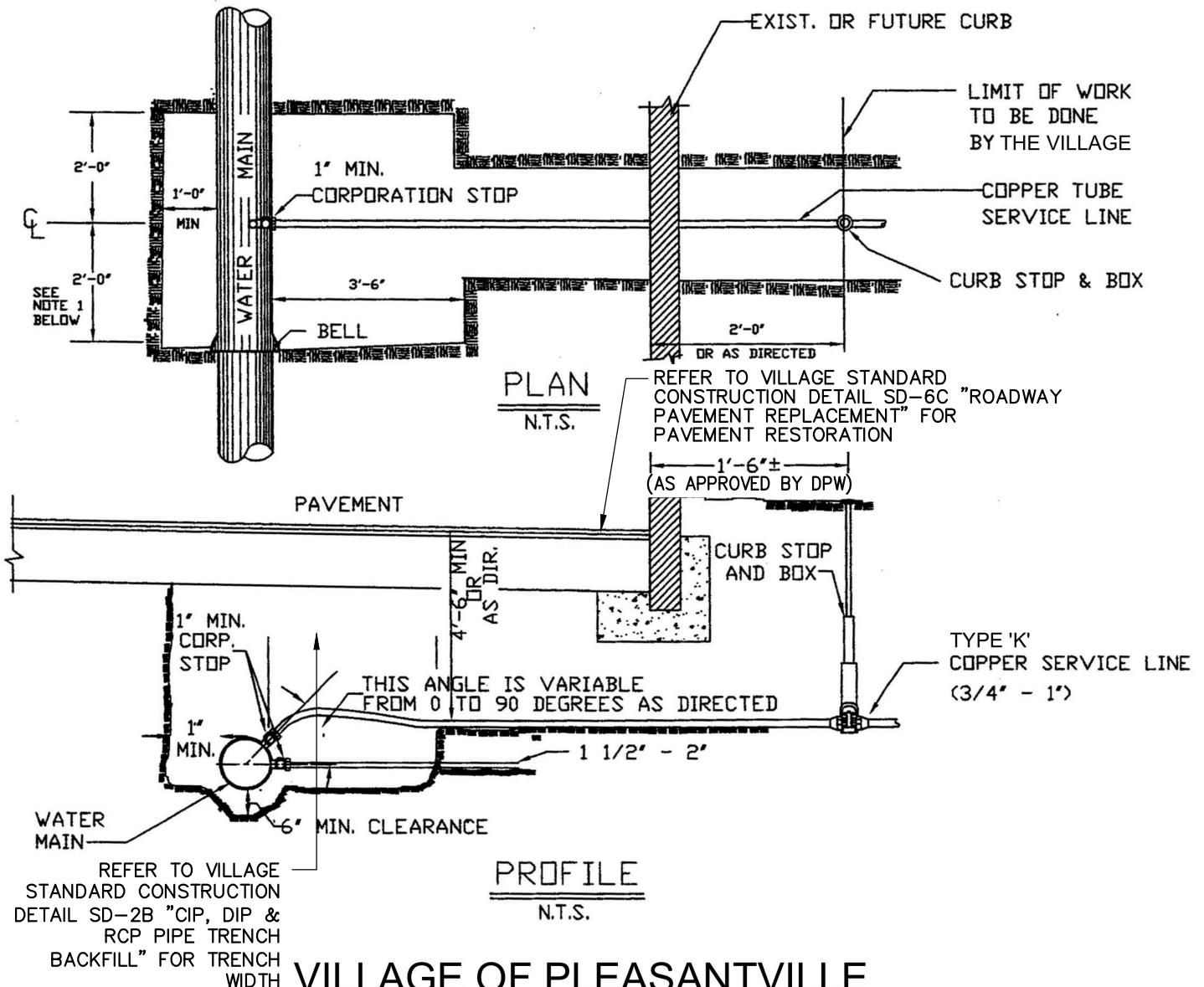
Note: The Water District maintains and repairs the water meter, outside remote, remote wire and the spuds/nuts.



THRUST RESTRAINT SCHEDULE FOR DUCTILE IRON PIPE													
THE DISTANCES SHOWN ARE THE LINEAL FEET OF PIPE TO BE RESTRAINED ON EACH SIDE OF THE FITTING OF THE LINEAL FEET OF PIPE RESTRAINED BACK FROM A PLOUGED DEAD END.													
REQUIRED FIELD CONDITIONS:													
A. MAXIMUM WATER TEST PRESSURE OF 150 P.S.I.													
B. MINIMUM PIPE COVER OF 3'-0"													
* RESTRAINED LENGTH VALUES FOR CONDITIONS OTHER THAN THOSE LISTED ABOVE ARE NOT VALID. SEPARATE CALCULATIONS SHALL BE PROVIDED.													
* REQUIRED RESTRAINED LENGTH FOR EACH SIDE OF BEND, (ft)													
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NOTES:

1. THE MINIMUM DIMENSION FROM THE EDGE OF BELL AND/OR TRENCH TO CORPORATION STOP SHALL BE 2'-0" OR AS DIRECTED.
2. FOR 1", 1 1/2" & 2" VILLAGE OF PLEASANTVILLE PERFORMS THE TAP, INSTALLS THE COPPER WATER SERVICE AND CURB VALVE WITH VALVE BOX.
3. FOR 1 1/2" AND 2" TAPS, NO DIRECT CONNECTION CAN BE MADE. A SERVICE SADDLE WILL BE PROVIDED AND INSTALLED BY THE VILLAGE OF PLEASANTVILLE.



VILLAGE OF PLEASANTVILLE TYPICAL TRENCH EXCAVATION DETAILS FOR TAPPING MAINS

SERVICE LINES (2" AND LESS)

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

WATER SERVICE LINES
(2 INCHES AND LESS)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-2D_Water Service Lines (2 Inches and Less).dwg



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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 11/17/2023
REV: XX/XX/20XX

SD-2D

CAMPBELL FOUNDRY PATTERN NO. 2617 (WITH BACKPLATE/CURB PIECE) OR 3405 (NO BACKPLATE/CURB PIECE)
CAST IRON FRAME AND GRATE
(SEE GENERAL NOTE 6 AND VILLAGE STANDARD CATCH BASIN FRAME AND GRATE CONSTRUCTION DETAILS FOR FRAME AND GRATE INFORMATION)

ADJUST TO GRADE WITH PRECAST CONCRETE PAVERS OR CONCRETE ADJUSTMENT RINGS.
(SEE GENERAL NOTE 10)

REFER TO PLANS FOR SURFACE TREATMENT BEHIND CURB BOX (i.e. BACKPLATE)

BITUMINOUS CONCRETE PAVEMENT SECTION
(REFER TO VILLAGE STANDARD CONSTRUCTION DETAIL)

ESTABLISH TURF ON EXISTING TOPSOIL FROM EXCAVATION, WHERE APPLICABLE

APPROVED BACKFILL MATERIAL SHALL INCLUDE NYSDOT ITEM NO. 204.01 "CONTROLLED LOW STRENGTH MATERIAL" (CLSM)

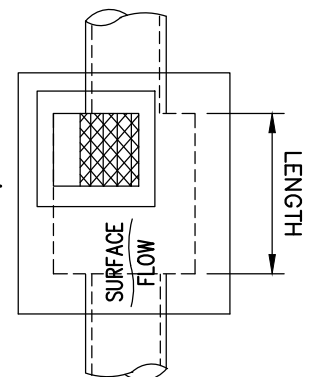
PRECAST CONCRETE DRAINAGE STRUCTURE (4,000 PSI @ 28 DAYS)

16" ALUM OR REINFORCED PLASTIC MANHOLE STEPS 12" ON CENTER. STEPS SHALL BE NEENAH No. R-1981-0 OR APPROVED EQUAL. STEPS SHALL BE EMBEDDED INTO THE STRUCTURE WALLS A MINIMUM OF 3 INCHES. RUNG SHALL PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE STRUCTURE WALLS MEASURED FROM THE POINT OF EMBEDMENT.

EXCAVATION PROTECTION SYSTEM AS REQUIRED (NYSDOT ITEM NO. 552.16)

APPROVED COMPACTED SUBGRADE

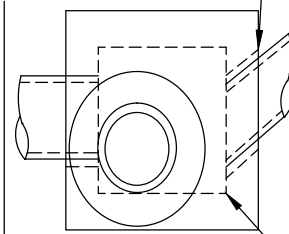
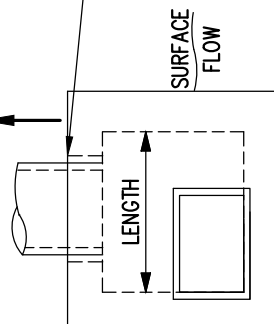
RECTANGULAR NYSDOT TYPE 'F' DRAINAGE STRUCTURE
(UNLESS OTHERWISE DIRECTED BY SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER)
SHOWN WITH CURB BOX, SUMP, AND A MONOLITHICALLY CAST FLOOR SLAB



TOP SLAB DIMENSIONS

STRUCTURE TYPE	6" THICK WALLS		8" THICK WALLS		TOP REINFORCEMENT (NOTES 3 AND 4)
	WIDTH	LENGTH	WIDTH	LENGTH	
A	4'-0"	4'-0"	4'-4"	4'-4"	6" X 6" W4 X W4
B	5'-0"	4'-0"	5'-4"	4'-4"	6" X 6" W4 X W4
C	6'-0"	4'-0"	6'-4"	4'-4"	6" X 6" W4 X W4
D	7'-8"	4'-0"	8'-0"	4'-4"	6" X 6" W4 X W4
E	4'-0"	5'-0"	4'-4"	5'-4"	6" X 6" W4 X W4
F	5'-0"	5'-0"	5'-4"	5'-4"	6" X 6" W4 X W4
G	6'-0"	5'-0"	6'-4"	5'-4"	6" X 6" W4 X W4
H	7'-8"	5'-0"	8'-0"	5'-4"	6" X 6" W5 X W5
I	4'-0"	6'-0"	4'-4"	6'-4"	6" X 6" W4 X W4
J	5'-0"	6'-0"	5'-4"	6'-4"	6" X 6" W4 X W4
K	6'-0"	6'-0"	6'-4"	6'-4"	6" X 6" W4 X W4
L	7'-8"	6'-0"	8'-0"	6'-4"	6" X 6" W5 X W5
M	4'-0"	7'-8"	4'-4"	8'-0"	6" X 6" W5 X W5
N	5'-0"	7'-8"	5'-4"	8'-0"	6" X 6" W5 X W5
O	6'-0"	7'-8"	6'-4"	8'-0"	6" X 6" W5 X W5
P	7'-8"	7'-8"	8'-0"	8'-0"	6" X 6" W5 X W5

ALL PIPE ENDS SHALL BE FLUSH WITH THE INSIDE OF THE WALL AND SEALED.
(SEE GENERAL NOTE 8)



PIPE OPENING NEVER THROUGH CORNER
(GENERAL NOTE 7)

INSIDE CORNERS MAY BE CHAMFERED (TYPICAL)

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

PRECAST CONCRETE CATCH BASIN WITH TOP SLAB (PAGE 1 OF 4)

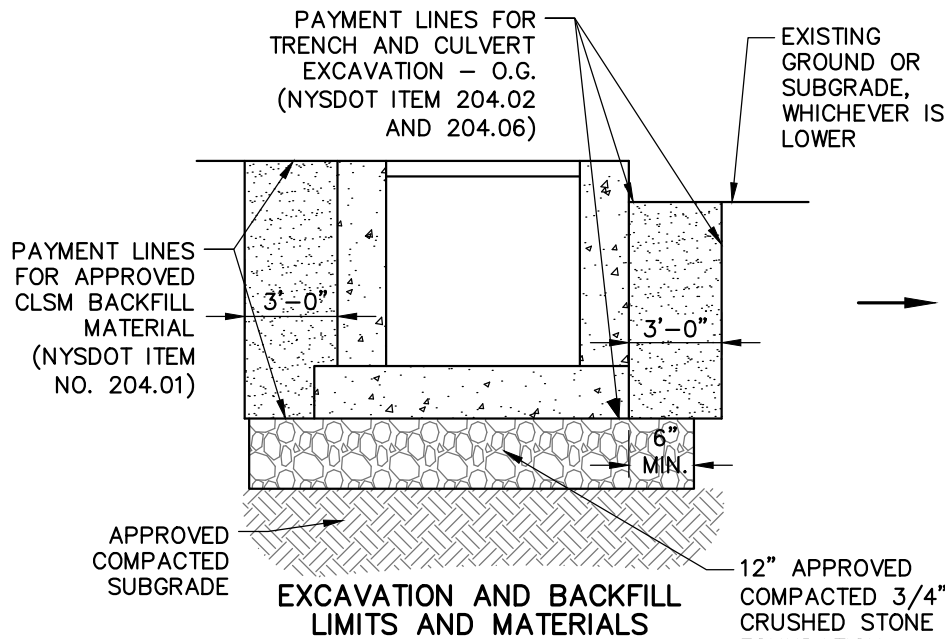
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-3A_NYSDOT Catch Basin.dwg



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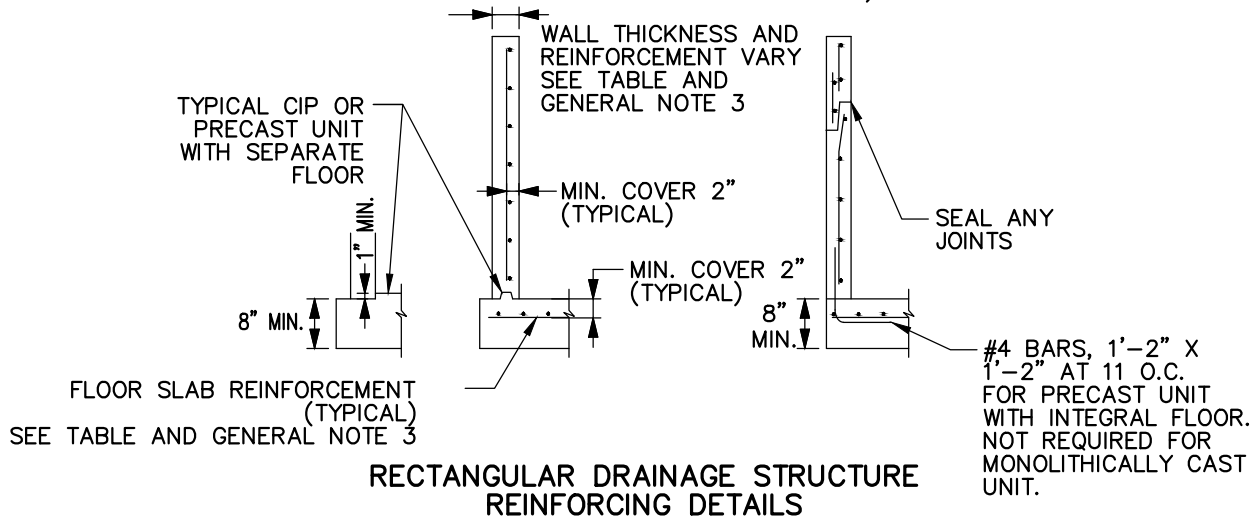
PROJECT: DETAILS
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DATE: 10/25/2022
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SD-3A



STRUCTURE SIZES AND PAY CODES			
STRUCTURE TYPE	INSIDE DIMENSIONS		PAY ITEM XX CODE
	WIDTH	LENGTH	
A	3'-0"	3'-0"	01
B	4'-0"	3'-0"	02
C	5'-0"	3'-0"	03
D	6'-8"	3'-0"	04
E	3'-0"	4'-0"	05
F	4'-0"	4'-0"	06
G	5'-0"	4'-0"	07
H	6'-8"	4'-0"	08
I	3'-0"	5'-0"	09
J	4'-0"	5'-0"	10
K	5'-0"	5'-0"	11
L	6'-8"	5'-0"	12
M	3'-0"	6'-8"	13
N	4'-0"	6'-8"	14
O	5'-0"	6'-8"	15
P	6'-8"	6'-8"	16

12" APPROVED COMPACTED 3/4" CRUSHED STONE FOUNDATION COURSE (NYS DOT ITEM NO. 623.12, SIZE DESIGNATION 2)



DRAINAGE STRUCTURE REINFORCEMENT		
HEIGHT "A"	WALL THICKNESS	RISER REINFORCEMENT (SEE NOTE 3 AND 14)
UP TO 7'-0"	6"	6"x6"- W6 X W6 OR #3 BARS AT 10" BOTH HORIZ. AND VERT.
	8"	UNREINFORCED
7'-0" TO 14'-0"	8"	6"x6"- W8.5 X W8.5 OR #3 BARS AT 8" BOTH HORIZ. AND VERT.
14'-0" TO 21'-0"	8"	4"x4"- W8.5 X W8.5 OR #3 BARS AT 5" BOTH HORIZ. AND VERT.
		FLOOR SLAB REINFORCEMENT (SEE NOTE 3)
UP TO 7'-0"		6"x6"- W11 X W11 OR #3 BARS AT 6" IN BOTH DIRECTIONS
7'-0" TO 14'-0"		4"x4"- W11 X W11 OR #3 BARS AT 4" IN BOTH DIRECTIONS
14'-0" TO 21'-0"		4"x4"- W14 X W14 OR #3 BARS AT 3" IN BOTH DIRECTIONS

NOTE:

UNLESS OTHERWISE NOTED, DRAINAGE STRUCTURES SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 604, 706-04 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.

*T MAY BE 6" OR 8" FOR THE FIRST 7'-0". EXCEPTIONS ARE SIZE S, T, AND U WITH CURB, RECTANGULAR STRUCTURES WITH ROUND MANHOLE OPENING, OR IF THERE IS LESS THAN 2" ON EITHER SIDE OF A CORNER. (NOTE 7) WHICH MUST HAVE 8" THICK WALLS.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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PRECAST CONCRETE CATCH BASIN WITH TOP SLAB (PAGE 2 OF 4)

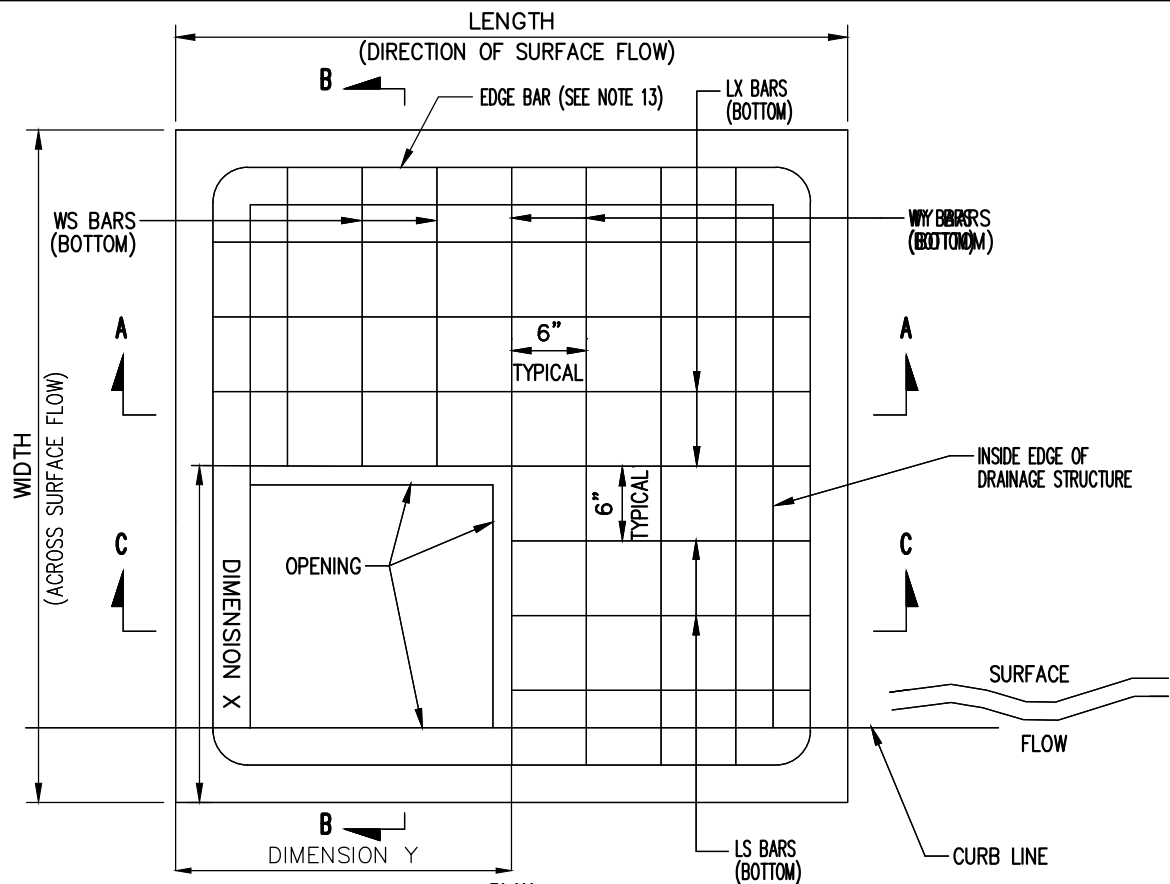
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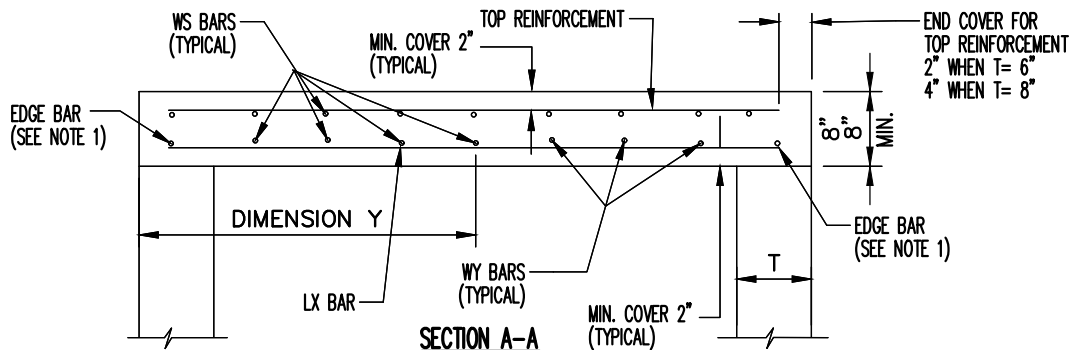
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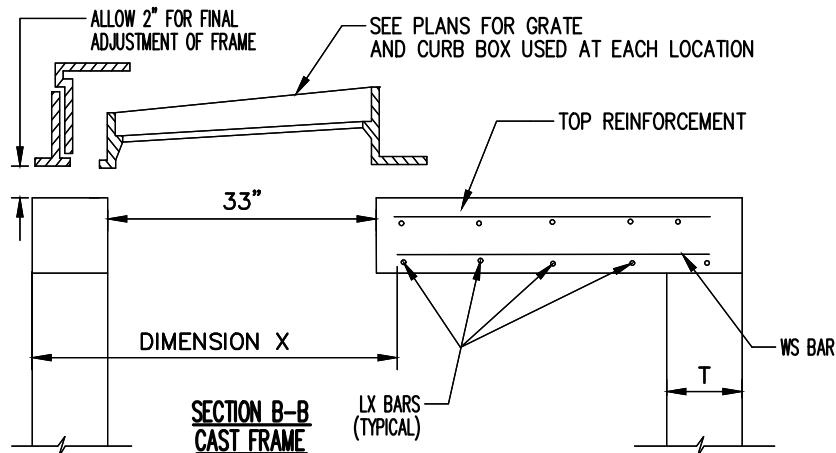
SD-3A



**PLAN
TOP SLAB BAR LAYOUT
FOR WELDED, PARALLEL BAR AND CAST FRAMES**



**SECTION A-A
TYPICAL FOR ALL TYPES OF FRAME**



**SECTION B-B
CAST FRAME**

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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**PRECAST CONCRETE
CATCH BASIN WITH TOP SLAB
(PAGE 3 OF 4)**

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SD-3A

GENERAL NOTES:

1. DRAINAGE STRUCTURES SHALL BE PRECAST CONCRETE UNITS. ROUND DRAINAGE STRUCTURES SHALL BE PRECAST CONCRETE ONLY. THE CONTRACTORS SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL OF ANY CHANGES TO THE STRUCTURES SHOWN ON THE STANDARD SHEETS OR CONTACT PLANS, OTHER THAN MINOR CHANGES APPROVED BY THE ENGINEER. USE OF FLAT SLAB TOPS ON ROUND PRECAST UNITS SHALL REQUIRE SUBMISSION OF WORKING DRAWINGS.
2. SEE PLANS FOR ELEVATIONS, DRAINAGE STRUCTURE LOCATIONS, TYPE OF GRATE UTILIZED, LOCATION OF SCOOPS, FORMED INVERTS, SUMPS AND DRAINS.
3. REINFORCEMENT FOR RECTANGULAR DRAINAGE UNITS (CAST IN PLACE OR PRECAST) BAR REINFORCEMENT INDICATED FOR RECTANGULAR TOP SLABS, RISERS AND BASES SHALL BE GRADE 60. WIRE FABRIC FOR CONCRETE REINFORCEMENT SHALL MEET THE REQUIREMENTS OF §709-02. RISER REINFORCEMENT SHALL BE PLACED SO IT WILL HAVE A MINIMUM COVER OF 2" BUT NO MORE THAN 4" FROM THE INSIDE FACE. THE REINFORCEMENT SHALL EXTEND COMPLETELY AROUND THE DRAINAGE STRUCTURE RISER AND SHALL BE LAPPED AND TIED. BASE REINFORCEMENT SHALL BE PLACED ABOVE THE MIDPOINT OF SLAB AND SHALL HAVE A MINIMUM CONCRETE COVER OF 2".
4. ROUND ALTERNATIVE:
WHEN SPECIFIED BY PAYMENT ITEM, THE CONTRACTOR MAY SUBSTITUTE ROUND, PRECAST DRAINAGE STRUCTURES IN PLACE OF RECTANGULAR STRUCTURES USING SIZES INDICATED IN THE "SELECTION TABLE FOR ALTERNATE ROUND DRAINAGE STRUCTURES" ON NYSDOT "DRAINAGE STRUCTURE DETAILS" STANDARD SHEET 4 OF 4. THE RISER, TOP SLAB, AND BOTTOM SLAB FOR THE ROUND ALTERNATE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE PROVISIONS OF §706-04 OF THE STANDARD SPECIFICATIONS. WORKING DRAWINGS FOR THE ROUND ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL, UNLESS THE ROUND ALTERNATE PROPOSED HAS BEEN PREVIOUSLY APPROVED. FOR PREVIOUSLY APPROVED ROUND UNITS THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED DRAWINGS TO THE ENGINEER.
5. FORMED INVERTS:
FORMED INVERTS, SCOOP AND SUMPS SHALL BE PROVIDED AND INCLUDED IN THE PRICES BID FOR DRAINAGE STRUCTURES CALLED FOR IN THE CONTRACT DOCUMENTS. WHEN NON-CIRCULAR PIPES ARE USED, THE FORMED INVERT AND SUMP DETAILS SHALL BE MODIFIED TO FIT THE INVERTS.
6. GRATES:
CAST FRAMES SHALL HAVE BICYCLE SAFE GRATES. GRATES SHALL BE INSTALLED SO THAT THE LENGTH OF THE GRATE IS PARALLEL TO THE SURFACE FLOW.
7. WALL OPENINGS:
RECTANGULAR DRAINAGE STRUCTURES SHOWN ON THE NYSDOT "DRAINAGE STRUCTURE DETAILS" STANDARD SHEETS SHOULD NEVER HAVE CORNER PIPE ENTRIES. IF PIPE ALIGNMENT WOULD REQUIRE A CORNER ENTRY, USE AROUND DRAINAGE STRUCTURE OR USE A SPECIAL DRAINAGE STRUCTURE. ALL WALL OPENINGS SHALL BE FORMED COMPLETELY THROUGH THE WALL SECTION. CIRCULAR WALL OPENINGS SHALL BE FORMED FOR EACH CIRCULAR PIPE ENTERING PERPENDICULAR TO THE WALL. WHEN NON-CIRCULAR PIPES ARE SPECIFIED, OR ROUND PIPE ENTRIES ARE SKEWED, RECTANGULAR OPENINGS MAY BE USED. THE CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE OPENING SHALL BE AT LEAST 2" BUT NO MORE THAN 3". THIS CLEARANCE SHALL BE MEASURED BETWEEN THE OUTSIDE OF THE PIPE AND NEAREST POINT ON THE RECTANGULAR OPENING. IF A CORNER HAS PIPE ENTRIES ON BOTH SIDES, AND THERE IS LESS THAN 2" BETWEEN EITHER OPENING AND THE CORNER. THEN THAT SECTION OF THE DRAINAGE STRUCTURE MUST HAVE 8" THICK WALLS.
8. MONOLITHIC AND INTEGRAL BASES MAY HAVE A MAXIMUM VERTICAL DRAFT OF $\frac{1}{2}$ " ON ALL INTERIOR DIMENSIONS, TO FACILITATE FORM REMOVAL. FOR WALL OPENINGS THAT EXTEND THE FULL WIDTH OR LENGTH OF THE STRUCTURE, THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE WALL OPENING SHALL BE $\frac{1}{2}$ ".
9. FINISHING PIPE ENTRIES:
THE BELLS OF CONCRETE PIPE SHALL BE CUT OFF AT EVERY PIPE ENTRY WHERE THE BELL ENTERS A STRUCTURE. CONNECTIONS BETWEEN THE STRUCTURE AND PIPE SHALL BE MADE BY EITHER USING A RESILIENT CONNECTOR MEETING THE REQUIREMENTS OF ASTM C1478M OR BY COMPLETELY FILLING THE SPACE AROUND EACH PIPE WITH MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIAL, OR CONCRETE REPAIR MATERIAL. THE CONTRACTOR MAY USE ALTERNATE METHODS FOR SEALING THE SPACE AROUND THE PIPE, CONTINGENT UPON SATISFACTORY RESULTS BEING OBTAINED.
10. TOP SLAB AND OR FRAME AND GRATE ADJUSTMENT:
A MINIMUM OF $\frac{1}{2}$ " OF BEDDING SHALL BE PLACED BETWEEN RISER AND PRECAST TOP SLABS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATE OF UP TO $2\frac{1}{2}$ " SHALL BE MADE WITH BEDDING MATERIAL MEETING THE REQUIREMENTS OF MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIALS OR CONCRETE REPAIR MATERIAL. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATES OF UP TO 6" SHALL BE MADE WITH COMBINATION OF PRECAST CONCRETE PAVERS AND BEDDING MATERIALS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATES OF UP TO 1'-0" SHALL BE MADE WITH CAST-IN-PLACE CONCRETE OR A COMBINATION OF PRECAST CONCRETE ADJUSTMENT ELEMENTS AND BEDDING MATERIALS. ALTERNATELY, GRADE ADJUSTMENTS FOR FRAMES AND GRATES OF UP TO 2" MAY BE MADE WITH RECYCLED RUBBER ELEMENTS OR UP TO 3" WITH HDPE ELEMENTS. RECYCLED RUBBER AND HDPE ELEMENTS SHALL BE PRODUCTS APPROVED BY THE MATERIALS BUREAU AND SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. THE CONTRACTOR MAY USE ALTERNATE METHODS OF GRADE ADJUSTMENT, CONTINGENT UPON SATISFACTORY RESULTS BEING OBTAINED.
11. MANHOLE STEPS SHALL BE REQUIRED IN ALL DRAINAGE STRUCTURES DEEPER THAN 4'-0".
12. CORBELED OR CONICAL RISER SECTIONS AND FLAT SLAB REDUCERS.
ROUND PRECAST DRAINAGE STRUCTURES OR MANHOLES (WHEN ALLOWED OR SPECIFIED) MAY BE FITTED WITH CONCENTRIC OR ECCENTRIC CONICAL SECTIONS TO REDUCE THEIR DIAMETERS. PROVIDED THE USE OF SUCH DEVICES IS COMPATIBLE WITH THE DRAINAGE SYSTEM DESIGN. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL OF FLAT SLAB REDUCERS FOR ROUND OR RECTANGULAR STRUCTURES. A WALL SECTION WITH A HEIGHT LESS THAN 6" BETWEEN THE TOP OF THE HIGHEST PIPE ENTRY AND THE BOTTOM OF A CONICAL SECTION OR FLAT SLAB REDUCER SHALL NOT BE PERMITTED.
13. WHEN PIPE LOCATIONS PROVIDE FOR LESS THAN 8" BETWEEN THE TOP OF THE UPPERMOST PIPE AND THE TOP OF THE RISER AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, CONTACT STRUCTURES DIVISION FOR A SPECIAL DESIGN.
14. WHEN SITE CONDITIONS REQUIRE A DRAINAGE STRUCTURE TO BE INSTALLED TO A DEPTH GREATER THAN THAT SHOWN IN THE CONTRACT DOCUMENTS, AN INSTALLATION TOLERANCE OF 8" IS PERMITTED WITHOUT REQUIRING AN INCREASE IN WALL THICKNESS OR REINFORCING STEEL AS REQUIRED BY THE DRAINAGE STRUCTURE REINFORCEMENT TABLE.
15. THE PAY ITEMS FOR DRAINAGE STRUCTURES SPECIFY THE STRUCTURE AND FRAME. DRAINAGE STRUCTURE ITEM NUMBERS:
RECTANGULAR DRAINAGE STRUCTURE WITH CONCRETE CAP ITEM 604.32XXYY
SEE TABLES BELOW FOR XX AND YY CODES. EXAMPLE: 604.0672 - RECTANGULAR STRUCTURE TYPE F WITH VILLAGE STANDARD CAST FRAME.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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PRECAST CONCRETE CATCH BASIN WITH TOP SLAB (PAGE 4 OF 4)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-3A_NYSDOT Catch Basin.dwg

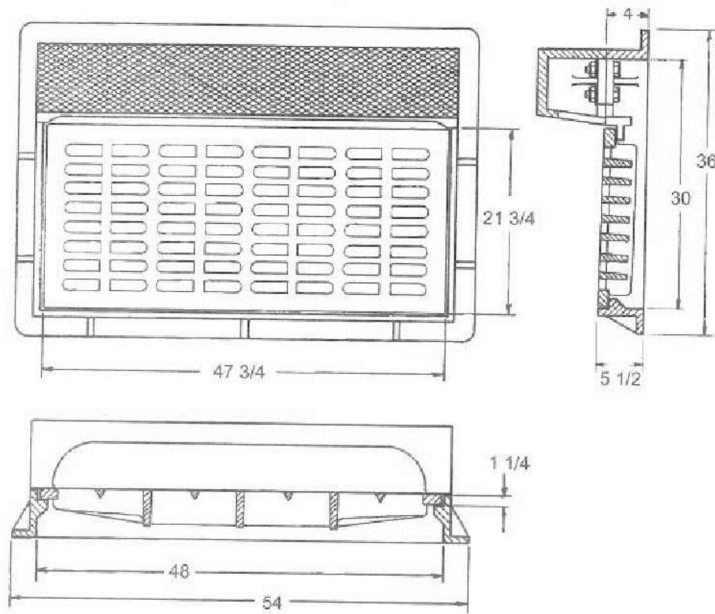


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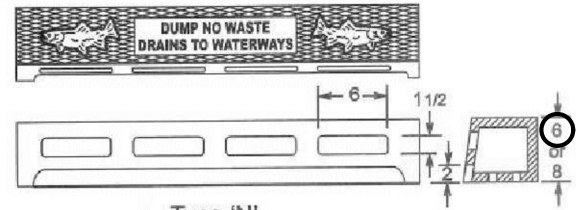
PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-3A

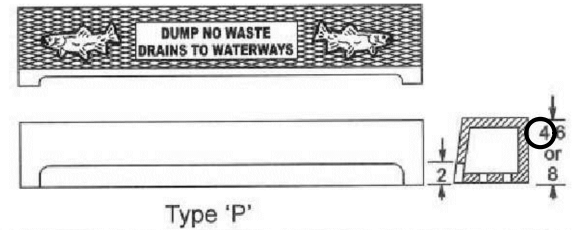
PATTERN NUMBER 2617
WITH BICYCLE GRATE



TYPE 'D' INLET

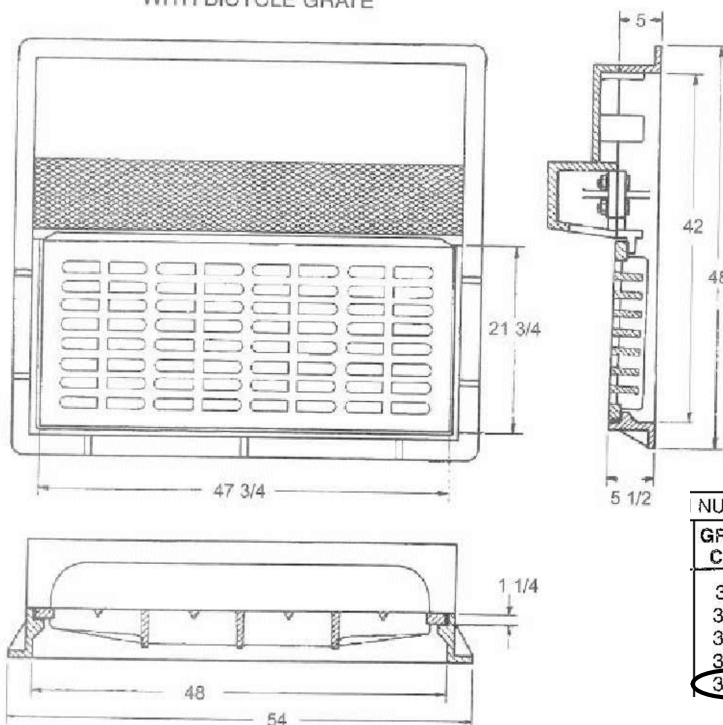


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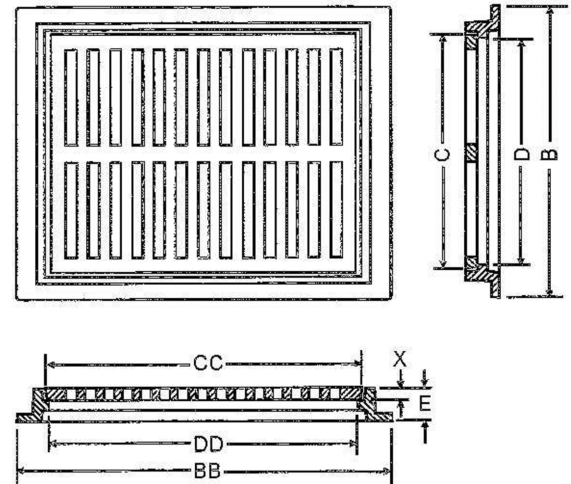


Type 'P'

PATTERN NUMBER 2618
WITH BICYCLE GRATE



TYPE 'B' INLET



NUMBER	DIMENSIONS IN INCHES							
GRATING COVER	B	BB	C	CC	D	DD	E	X
3080	18	24	14	20	12	18	4	1 1/2
3081	18	30	13 1/2	25 1/2	12	24	4	1 1/2
3082	24	30	19 1/2	25 1/2	18	24	4	1 1/2
3083	24	36	19 1/2	31 1/2	18	30	4	1 1/2
3084	30	36	25 1/2	31 1/2	24	30	4	1 1/2

NOTES:

1. FRAME AND GRATE SHALL BE "STATE OF NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) TYPE 'B' OR 'D' CATCH BASIN (i.e. INLET)", MANUFACTURED BY CAMPBELL FOUNDRY COMPANY PATTERN NO. 2617, 2618 (WITH CURBPIECE), PATTERN NO. 3084 OR APPROVED EQUAL. GRATE SHALL BE "PHASE II STORM WATER COMPLIANT GRATE".
2. THE CURB PIECE TYPE SHALL BE TYPE 'N' WITH A CURB HEIGHT OF 6 INCHES. A TYPE 'P' CURBPIECE MAY BE SUBSTITUTED WHERE THE EXISTING AND/OR PROPOSED CURB REVEAL IS 4 INCHES OR LESS. THE CURB MARKING "DUMP NO WASTE DRAINS TO WATERWAYS" SHALL BE CAST INTO THE CURBPIECE.
3. CASTINGS SHALL BE DOMESTICALLY MANUFACTURED, AND CONFORM THE SPECIFICATIONS OF NYSDOT ITEM NO. 655.0101. FOREIGN PRODUCED CASTINGS ARE PROHIBITED.

VILLAGE OF PLEASANTVILLE
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**CATCH BASIN
FRAMES AND GRATES
(PAGE 1 OF 2)**

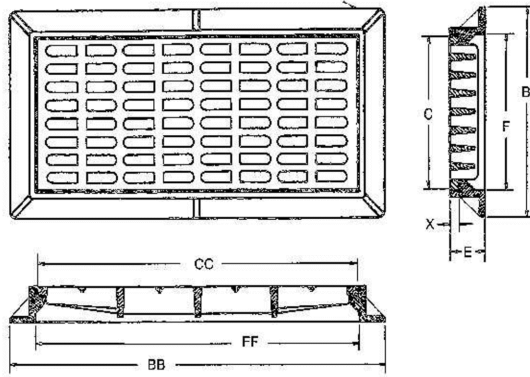
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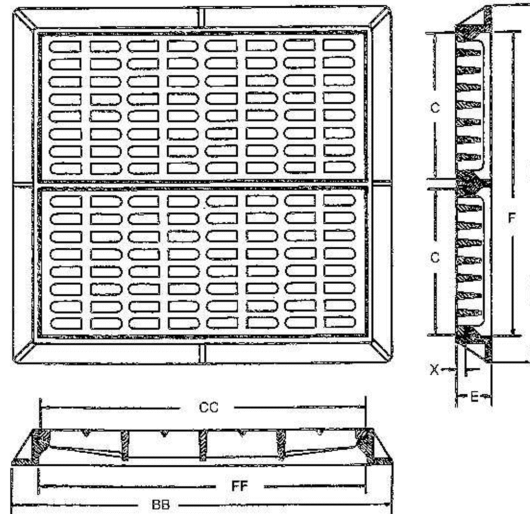
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SD-3B



Inlet shown with Bicycle Safe Grate.
Refer to page 20 for Alternate Grate Types.
Rate of Flow charts pages 109-112.

PATTERN NUMBERS				DIMENSIONS IN INCHES							
GRATE TYPE											
BIKE SAFE	OVAL FLAT	OVAL DISHED	STREAM FLOW	B	BB	C	CC	E	F	FF	X
3406	3410	3400	3430B	28	42	21%	35%	5	22	36	1 1/4
-	3411	3401	3431	28	44%	21%	38	5	22	38 1/4	2
3405	3412	3402	3432	28	54	21%	47%	5	22	48	1 1/4
3408	3413	3403	3433	36	55 1/2	30	49%	5	30 1/4	49 1/2	1 1/4
3404	-	-	-	31	43	24	36	4 1/2	24 1/4	36%	1 1/2
3409	-	-	3435	31	55	23%	47%	5	24	48	1 1/4
-	-	-	3430A	28	41 1/4	20%	34%	4	22	32%	1 1/4
3407	-	-	3444	32	54	25%	47%	5	26	48	1 1/4
-	-	-	3444A	32	54	25%	47%	9	26	48	1 1/4



Inlet shown with Bicycle Safe Grate.
Refer to page 20 for Alternate Grate Types.
Rate of Flow charts pages 109-112.

PATTERN NUMBERS				DIMENSIONS IN INCHES							
GRATE TYPE											
BIKE SAFE	OVAL FLAT	OVAL DISHED	STREAM FLOW	B	BB	C	CC	E	F	FF	X
3424	3422	3420	3439	51	42	21%	35%	5	44%	36	1 1/4
3425	3423	3421	3440	51	54	21%	47%	5	45	48	1 1/4
3426	-	-	3443	59	54	25%	47%	5	53	48	1 1/4

NOTES:

- FRAME AND GRATE SHALL BE "STATE OF NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) TYPE 'A' OR 'E' CATCH BASIN (i.e. INLET)", MANUFACTURED BY CAMPBELL FOUNDRY COMPANY PATTERN No. 3405 & 3425 (WITHOUT A CURBPIECE), OR APPROVED EQUAL. GRATE SHALL BE A BICYCLE SAFE "PHASE II STORM WATER COMPLIANT GRATE".
- CASTINGS SHALL BE DOMESTICALLY MANUFACTURED, AND CONFORM THE SPECIFICATIONS OF NYSDOT ITEM NO. 655.0101. FOREIGN PRODUCED CASTINGS ARE PROHIBITED.

VILLAGE OF PLEASANTVILLE
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CATCH BASIN FRAMES AND GRATES (PAGE 2 OF 2)

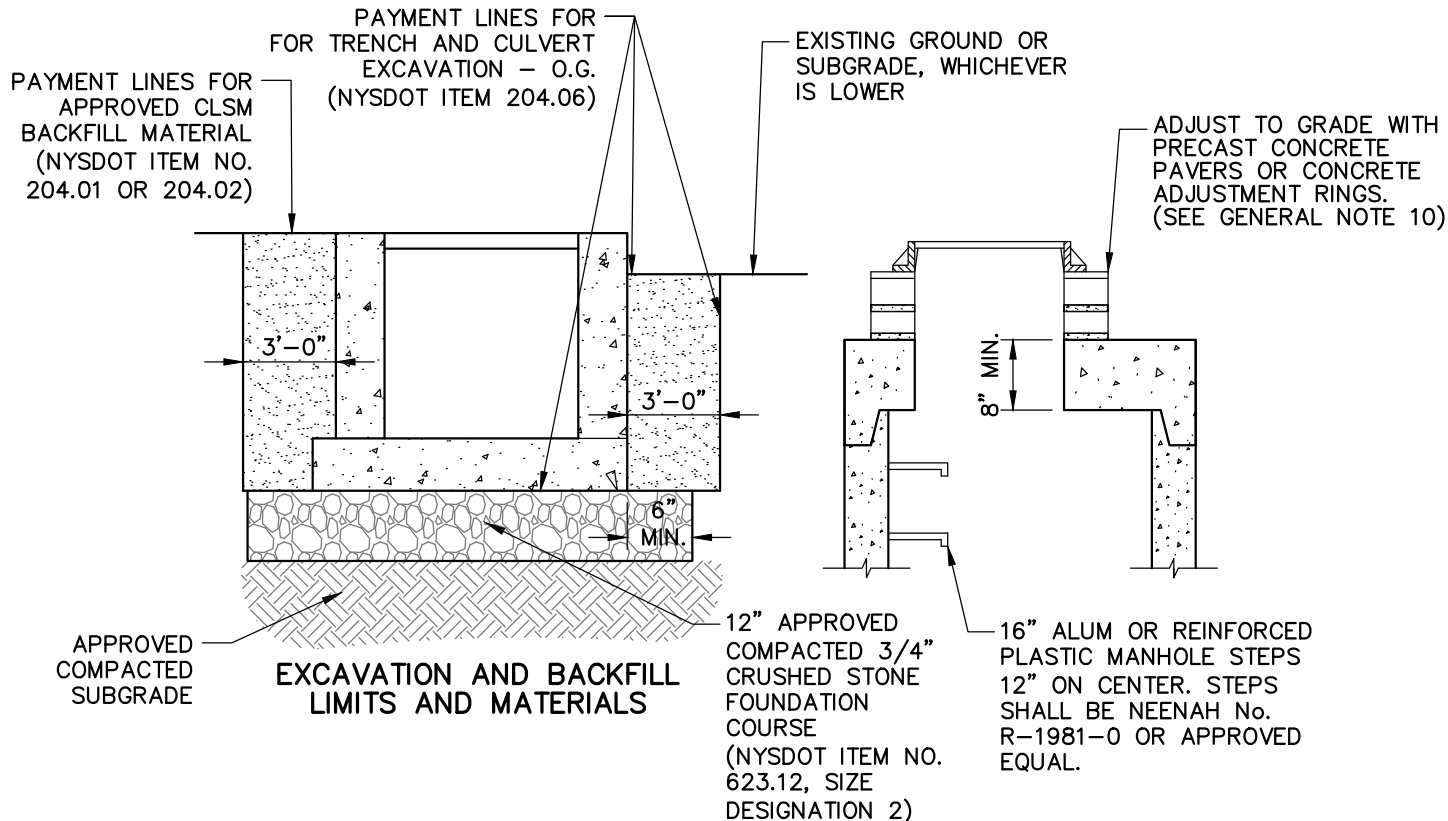
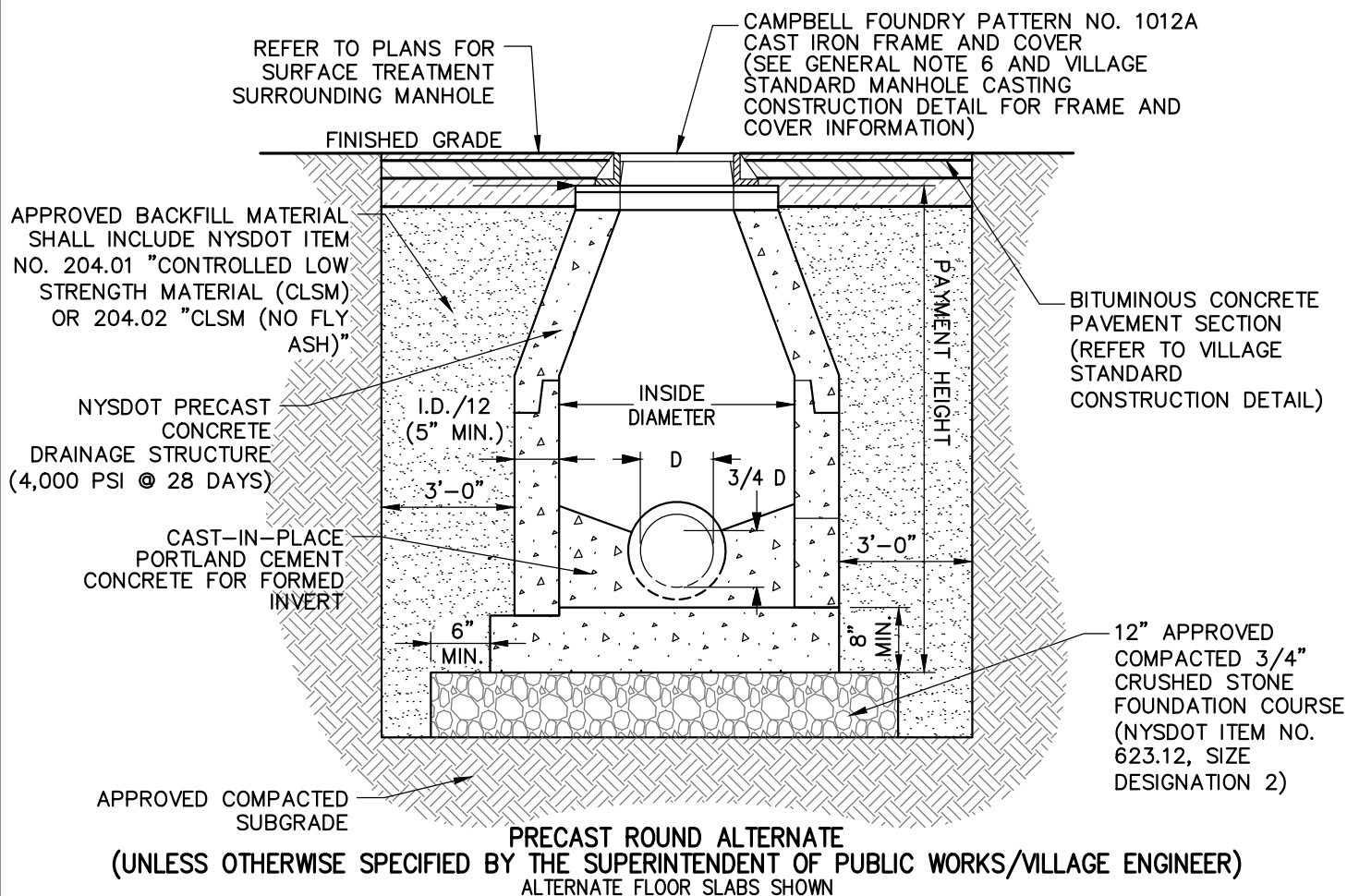
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SD-3B



VILLAGE OF PLEASANTVILLE
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**PRECAST CONCRETE
DRAINAGE MANHOLE**
(PAGE 1 OF 4)

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SD-3C

SELECTION TABLES FOR ALTERNATE ROUND DRAINAGE STRUCTURES

CONCRETE OR POLYETHYLENE PIPES		STRUCTURE INTERNAL DIAMETER				
		48"	60"	72"	84"	96"
RCP H.E. RISE X SPAN	ROUND INTERNAL DIAMETER	MINIMUM ANGLE BETWEEN PIPE ENTRIES (NOTE 5)				
	12"	84	63	50	41	35
	15"	94	70	56	46	39
	18"	104	78	62	51	43
	21"	115	85	68	56	48
	24"	127	93	74	61	52
	27"	141	102	81	67	57
	30"	157	111	87	72	61
19" X 30"		157	112	88	73	62
	34"		121	95	78	66
22" X 34"			125	97	80	68
	36"		133	102	84	71
24" X 38"			140	106	87	74
27" X 42"			156	115	94	79
	42"		164	119	96	81
29" X 45"				130	104	87
	48"			140	110	92
32" X 49"				145	113	94
34" X 53"				166	123	101
	54"			175	126	104
	60"				147	117

PRECAST ROUND MANHOLES

ITEM	TYPE	CIRCUMFERENTIAL STEEL – SQUARE INCHES PER VERTICAL FOOT	INSIDE DIAMETER
604.4048	48	0.12	48
604.4060	60	0.15	60
604.4072	72	0.18	72
604.4084	84	0.21	84
604.4096	96	0.24	96

NOTES:

1. UNLESS OTHERWISE NOTED, DRAINAGE STRUCTURES SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 604, 706-04 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
2. PRECAST ROUND ALTERNATE SHALL BE TYPE 48, NYSDOT ITEM NO. 604.4098 AND SHALL INCLUDE A MANHOLE FRAME AND COVER, MONOLITHICALLY POURED FLOOR SLABS AND CAST-IN-PLACE CONCRETE FORMED INVERT.
3. THE DIAMETER OF THE ALTERNATE ROUND UNIT SHALL NOT BE LESS THAN THE LARGER DIMENSION OF THE SPECIFIED RECTANGULAR UNIT IT REPLACES. IT SHALL ALSO BE LARGE ENOUGH TO HAVE THE SPECIFIED GRATE FIT WITHIN THE INSIDE DIAMETER OF THE ROUND ALTERNATE.
4. THE ABOVE VALUES ARE BASED ON THE CENTERLINE OF ALL PIPES INTERSECTING AT THE CENTER OF THE ROUND ALTERNATE.
5. THE ANGLE BETWEEN ADJACENT PIPE ENTRIES SHALL NOT BE LESS THAN THE MINIMUM SHOWN IN THE TABLE ABOVE. WHEN THE ADJACENT PIPES HAVE DIFFERENT SIZES, THE MINIMUM ANGLE SHALL BE THE VALUE FOR THE LARGER OF THE TWO PIPES.
6. THE SUM OF THE MINIMUM ANGLES BETWEEN PIPES AT THE SAME LEVEL SHALL NOT BE MORE THAN 360 DEGREES. THEY SHALL BE REGARDED AS BEING AT THE SAME LEVEL IF THEIR RISES OVERLAP.5. A BLANK (NO ENTRY) IN TABLE INDICATES THAT THE STRUCTURE IS TOO SMALL FOR PIPE OF THAT SIZE.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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PRECAST CONCRETE DRAINAGE MANHOLE (PAGE 2 OF 4)

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SD-3C

GENERAL NOTES:

1. DRAINAGE STRUCTURES SHALL BE PRECAST CONCRETE UNITS. ROUND DRAINAGE STRUCTURES SHALL BE PRECAST CONCRETE ONLY. THE CONTRACTORS SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL OF ANY CHANGES TO THE STRUCTURES SHOWN ON THE STANDARD SHEETS OR CONTACT PLANS, OTHER THAN MINOR CHANGES APPROVED BY THE ENGINEER. USE OF FLAT SLAB TOPS ON ROUND PRECAST UNITS SHALL REQUIRE SUBMISSION OF WORKING DRAWINGS.
2. SEE PLANS FOR ELEVATIONS, DRAINAGE STRUCTURE LOCATIONS, TYPE OF GRATE UTILIZED, LOCATION OF SCOOPS, FORMED INVERTS, SUMPS AND DRAINS.
3. REINFORCEMENT FOR RECTANGULAR DRAINAGE UNITS (CAST IN PLACE OR PRECAST) BAR REINFORCEMENT INDICATED FOR RECTANGULAR TOP SLABS, RISERS AND BASES SHALL BE GRADE 60. WIRE FABRIC FOR CONCRETE REINFORCEMENT SHALL MEET THE REQUIREMENTS OF §709-02. RISER REINFORCEMENT SHALL BE PLACED SO IT WILL HAVE A MINIMUM COVER OF 2" BUT NO MORE THAN 4" FROM THE INSIDE FACE. THE REINFORCEMENT SHALL EXTEND COMPLETELY AROUND THE DRAINAGE STRUCTURE RISER AND SHALL BE LAPPED AND TIED. BASE REINFORCEMENT SHALL BE PLACED ABOVE THE MIDPOINT OF SLAB AND SHALL HAVE A MINIMUM CONCRETE COVER OF 2".
4. ROUND ALTERNATIVE:
WHEN SPECIFIED BY PAYMENT ITEM, THE CONTRACTOR MAY SUBSTITUTE ROUND, PRECAST DRAINAGE STRUCTURES IN PLACE OF RECTANGULAR STRUCTURES USING SIZES INDICATED IN THE "SELECTION TABLE FOR ALTERNATE ROUND DRAINAGE STRUCTURES" ON NYSDOT "DRAINAGE STRUCTURE DETAILS" STANDARD SHEET 4 OF 4. THE RISER, TOP SLAB, AND BOTTOM SLAB FOR THE ROUND ALTERNATE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE PROVISIONS OF §706-04 OF THE STANDARD SPECIFICATIONS. WORKING DRAWINGS FOR THE ROUND ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL, UNLESS THE ROUND ALTERNATE PROPOSED HAS BEEN PREVIOUSLY APPROVED. FOR PREVIOUSLY APPROVED ROUND UNITS THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED DRAWINGS TO THE ENGINEER.
5. FORMED INVERTS:
FORMED INVERTS, SCOOP AND SUMPS SHALL BE PROVIDED AND INCLUDED IN THE PRICES BID FOR DRAINAGE STRUCTURES CALLED FOR IN THE CONTRACT DOCUMENTS. WHEN NON-CIRCULAR PIPES ARE USED, THE FORMED INVERT AND SUMP DETAILS SHALL BE MODIFIED TO FIT THE INVERTS.
6. COVERS:
CASTINGS SHALL BE CAST IRON AND HAVE THE WORDS "STORM" OR "DRAIN" CAST ON THE COVER. THE COVER SHALL HAVE VENT HOLES. REFER TO THE VILLAGE STANDARD MANHOLE CASTING CONSTRUCTION DETAIL FOR ADDITIONAL INFORMATION.
7. WALL OPENINGS:
RECTANGULAR DRAINAGE STRUCTURES SHOWN ON THE NYSDOT "DRAINAGE STRUCTURE DETAILS" STANDARD SHEETS SHOULD NEVER HAVE CORNER PIPE ENTRIES. IF PIPE ALIGNMENT WOULD REQUIRE A CORNER ENTRY, USE AROUND DRAINAGE STRUCTURE OR USE A SPECIAL DRAINAGE STRUCTURE. ALL WALL OPENINGS SHALL BE FORMED COMPLETELY THROUGH THE WALL SECTION. CIRCULAR WALL OPENINGS SHALL BE FORMED FOR EACH CIRCULAR PIPE ENTERING PERPENDICULAR TO THE WALL. WHEN NON-CIRCULAR PIPES ARE SPECIFIED, OR ROUND PIPE ENTRIES ARE SKEWED, RECTANGULAR OPENINGS MAY BE USED. THE CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE OPENING SHALL BE AT LEAST 2" BUT NO MORE THAN 3". THIS CLEARANCE SHALL BE MEASURED BETWEEN THE OUTSIDE OF THE PIPE AND NEAREST POINT ON THE RECTANGULAR OPENING. IF A CORNER HAS PIPE ENTRIES ON BOTH SIDES, AND THERE IS LESS THAN 2" BETWEEN EITHER OPENING AND THE CORNER. THEN THAT SECTION OF THE DRAINAGE STRUCTURE MUST HAVE 8" THICK WALLS.
8. MONOLITHIC AND INTEGRAL BASES MAY HAVE A MAXIMUM VERTICAL DRAFT OF 1/2" ON ALL INTERIOR DIMENSIONS, TO FACILITATE FORM REMOVAL. FOR WALL OPENINGS THAT EXTEND THE FULL WIDTH OR LENGTH OF THE STRUCTURE, THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE WALL OPENING SHALL BE 1 1/2".

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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**PRECAST CONCRETE
DRAINAGE MANHOLE
(PAGE 3 OF 4)**

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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
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SD-3C

GENERAL NOTES (CONT'D):

9. FINISHING PIPE ENTRIES:
THE BELLS OF CONCRETE PIPE SHALL BE CUT OFF AT EVERY PIPE ENTRY WHERE THE BELL ENTERS A STRUCTURE. CONNECTIONS BETWEEN THE STRUCTURE AND PIPE SHALL BE MADE BY EITHER USING A RESILIENT CONNECTOR MEETING THE REQUIREMENTS OF ASTM C1478M OR BY COMPLETELY FILLING THE SPACE AROUND EACH PIPE WITH MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIAL, OR CONCRETE REPAIR MATERIAL. THE CONTRACTOR MAY USE ALTERNATE METHODS FOR SEALING THE SPACE AROUND THE PIPE, CONTINGENT UPON SATISFACTORY RESULTS BEING OBTAINED.
10. TOP SLAB AND/OR FRAME AND GRATE ADJUSTMENT:
A MINIMUM OF $\frac{1}{2}$ " OF BEDDING SHALL BE PLACED BETWEEN RISER AND PRECAST TOP SLABS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATE OF UP TO $2\frac{1}{2}$ " SHALL BE MADE WITH BEDDING MATERIAL MEETING THE REQUIREMENTS OF MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIALS OR CONCRETE REPAIR MATERIAL. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATES OF UP TO 6" SHALL BE MADE WITH COMBINATION OF PRECAST CONCRETE PAVERS AND BEDDING MATERIALS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATES OF UP TO 1'-0" SHALL BE MADE WITH CAST-IN-PLACE CONCRETE OR A COMBINATION OF PRECAST CONCRETE ADJUSTMENT ELEMENTS AND BEDDING MATERIALS. ALTERNATELY, GRADE ADJUSTMENTS FOR FRAMES AND GRATES OF UP TO 2" MAY BE MADE WITH RECYCLED RUBBER ELEMENTS OR UP TO 3" WITH HDPE ELEMENTS. RECYCLED RUBBER AND HDPE ELEMENTS SHALL BE PRODUCTS APPROVED BY THE MATERIALS BUREAU AND SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. THE CONTRACTOR MAY USE ALTERNATE METHODS OF GRADE ADJUSTMENT, CONTINGENT UPON SATISFACTORY RESULTS BEING OBTAINED.
11. MANHOLE STEPS SHALL BE REQUIRED IN ALL DRAINAGE STRUCTURES DEEPER THAN 4'-0".
12. CORBELED OR CONICAL RISER SECTIONS AND FLAT SLAB REDUCERS.
ROUND PRECAST DRAINAGE STRUCTURES OR MANHOLES (WHEN ALLOWED OR SPECIFIED) MAY BE FITTED WITH CONCENTRIC OR ECCENTRIC CONICAL SECTIONS TO REDUCE THEIR DIAMETERS. PROVIDED THE USE OF SUCH DEVICES IS COMPATIBLE WITH THE DRAINAGE SYSTEM DESIGN. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL OF FLAT SLAB REDUCERS FOR ROUND OR RECTANGULAR STRUCTURES. A WALL SECTION WITH A HEIGHT LESS THAN 6" BETWEEN THE TOP OF THE HIGHEST PIPE ENTRY AND THE BOTTOM OF A CONICAL SECTION OR FLAT SLAB REDUCER SHALL NOT BE PERMITTED.
13. WHEN PIPE LOCATIONS PROVIDE FOR LESS THAN 8" BETWEEN THE TOP OF THE UPPERMOST PIPE AND THE TOP OF THE RISER AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, CONTACT STRUCTURES DIVISION FOR A SPECIAL DESIGN.
14. WHEN SITE CONDITIONS REQUIRE A DRAINAGE STRUCTURE TO BE INSTALLED TO A DEPTH GREATER THAN THAT SHOWN IN THE CONTRACT DOCUMENTS, AN INSTALLATION TOLERANCE OF 8" IS PERMITTED WITHOUT REQUIRING AN INCREASE IN WALL THICKNESS OR REINFORCING STEEL AS REQUIRED BY THE DRAINAGE STRUCTURE REINFORCEMENT TABLE.

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**PRECAST CONCRETE
DRAINAGE MANHOLE
(PAGE 4 OF 4)**

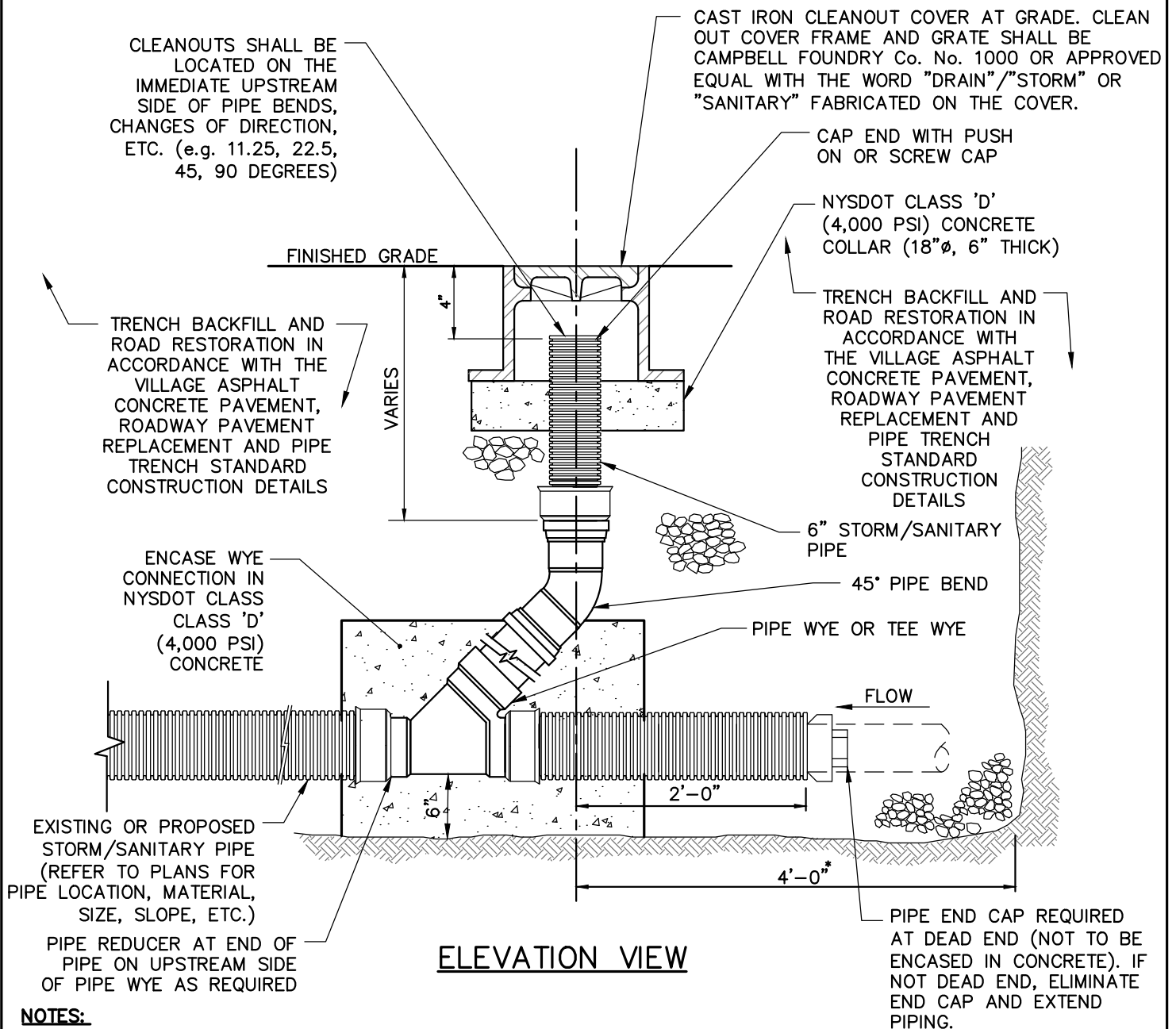
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SCALE: NOT TO SCALE
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REV: XX/XX/20XX

SD-3C



NOTES:

1. FOR PIPE TRENCH INSTALLATION, CONTROLLED LOW STRENGTH MATERIAL (CLSM – NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE USED AS THE PIPE TRENCH BACKFILL MATERIAL. THE CLSM SHALL EXTEND FROM THE BOTTOM OF THE PIPE TRENCH UP TO THE BOTTOM OF THE ASPHALT CONCRETE BASE COURSE. SUBMITTALS OF THE CLSM (NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE PROVIDED TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER FOR REVIEW AND APPROVAL.
2. UNLESS OTHERWISE NOTED, THE EXCAVATION AND EMBANKMENT AND TRENCH AND CULVERT EXCAVATION SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTIONS 203 AND 206 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCE FOR THE SEWER LINE EXISTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (IN WRITING) OF CONFLICTING ELEVATIONS, ALLOWING THE ENGINEER ADEQUATE TIME TO REVISE GRADES WITHOUT NECESSITATING REMOVAL AND RECONSTRUCTION OF WORK ALREADY COMPLETED BY THE CONTRACTOR.
4. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER SHALL INSPECT THE STORM AND/OR SANITARY SEWER (i.e. STRUCTURES, PIPES, CLEANOUTS, ETC.) PRIOR TO AND DURING BACKFILL. THE OWNER, OWNER'S REPRESENTATIVE AND/OR CONTRACTOR SHALL CONTACT THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER AT (914) 769-3883 OR EMAIL SUPERINTENDENTPUBLICWORKS@PLEASANTVILLE-NY.GOV (24) HOURS PRIOR TO START OF THIS WORK.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

**STORM OR SANITARY SEWER
CLEANOUT (WITHIN RIGHT-OF-WAY)**

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-3D_Storm or Sanitary Sewer Cleanout.dwg



VILLAGE OF PLEASANTVILLE
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
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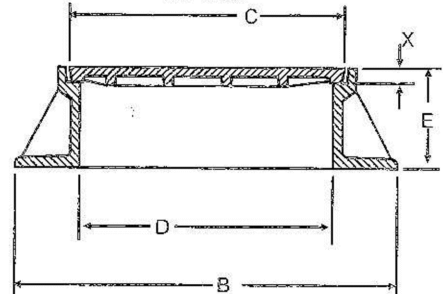
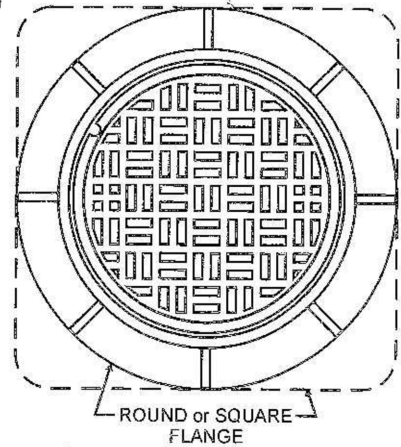
SD-3D

BELL TYPE FRAME

PATTERN NUMBER		DIMENSIONS IN INCHES				
ROUND FLANGE	SQUARE FLANGE	B	C	D	E	X
1102	1127	31	23 1/2	22	8	2 1/2
1103	1128	38	24	22 1/2	9	1 1/2
1104A	1129A	36	25 1/2	24	6	1 1/2
1104B	1129B	36	25 1/2	24	8	1 1/2
1105	1130	37	25 1/2	24	10	1 1/2
1106	1131	37	28 1/2	27	8	1 1/2
1107	1132	42	31 1/2	30	8	1 1/2
1108A	1133A	48	37 1/2	36	8	1 1/2
1108D	1133D	48	37 1/2	36	4	1 1/2
1109	1134	53	44 1/2	42	8	1 1/2
1111	1136	45	38 1/2	36	6	2
1114	*	36	26	24	8	1 1/2
1118	*	43 1/2	31 1/2	29 1/2	6 1/2	1 1/2

* No available pattern at time of printing.

NOTE: Most of the patterns can be modified to be watertight or fitted with a Flow Seal gasket (see page 28) for reduced inflow.

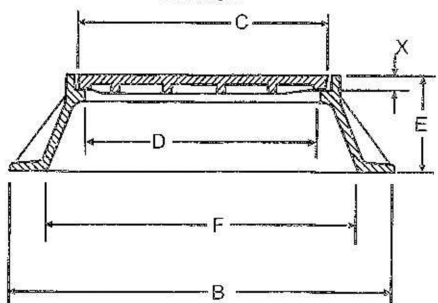
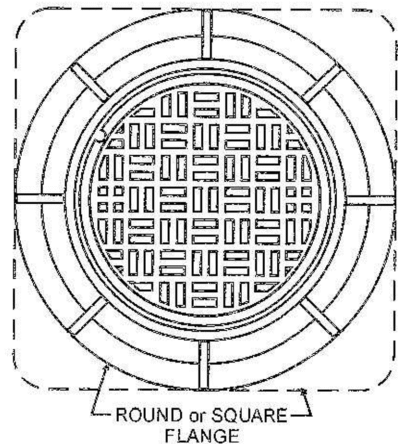


FLARED TYPE FRAME

PATTERN NUMBER		DIMENSIONS IN INCHES					
ROUND FLANGE	SQUARE FLANGE	B	C	D	E	F	X
1200	1225	38 1/2	22 1/2	20 1/2	8	26 1/2	1 1/2
1201	1226	40	22 1/2	20 1/2	10	30	1 1/2
1202A	1227A	39	25 1/2	23	4	23	2
1202B	1227B	39	25 1/2	23	8	31	2
1203A	1228A	39	25 1/2	24	4	24	1 1/2
1203B	1228B	39	25 1/2	24	8	32	1 1/2
1204	1229	43	25 1/2	24	10	35	1 1/2
1205	1230	44	28 1/2	27	10	38	1 1/2
1205A	1230A	46	28 1/2	27	5 1/2	38	1 1/2
1206	1231	49	31 1/2	30	10	41	1 1/2

NOTES:

- UNLESS OTHERWISE NOTED, FRAMES AND GRATES SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 655 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED MAY 1, 2023 WITH LATEST REVISIONS.
- STORM SEWER MANHOLE CASTINGS SHALL HAVE THE WORD 'STORM' CAST ON COVER. COVER SHALL HAVE VENT HOLES. SANITARY SEWER MANHOLE CASTINGS SHALL HAVE THE WORD 'SANITARY' CAST ON COVER. COVER SHALL NOT HAVE VENT HOLES.
- CAST MANHOLE FRAME AND COVER SHALL BE PATTERN NUMBER 1104B, 1107 AND/OR 1203B MANUFACTURED BY CAMPBELL FOUNDRY COMPANY OR APPROVED EQUAL.
- CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER FOR REVIEW AND APPROVAL OF ALL FRAMES AND COVERS.



VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

STORM AND SANITARY SEWER MANHOLE CASTINGS

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-3E_Manhole Casting.dwg

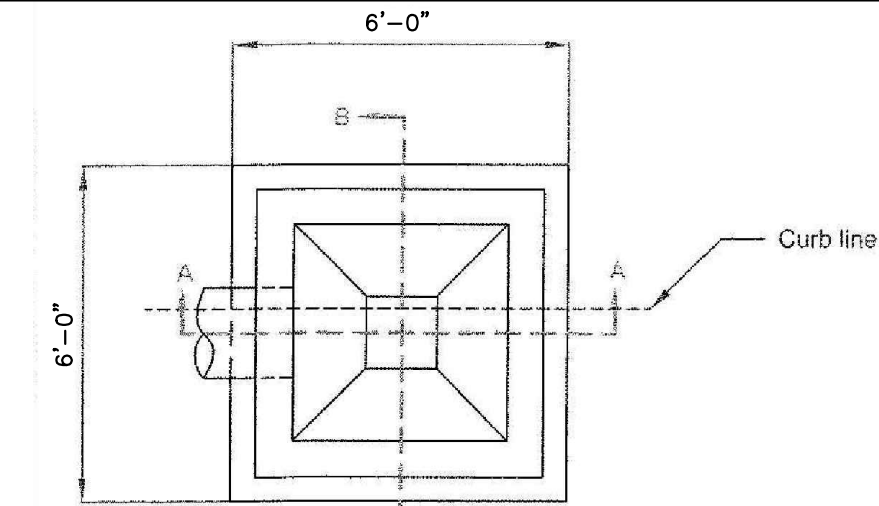


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SD-3E

NOTES

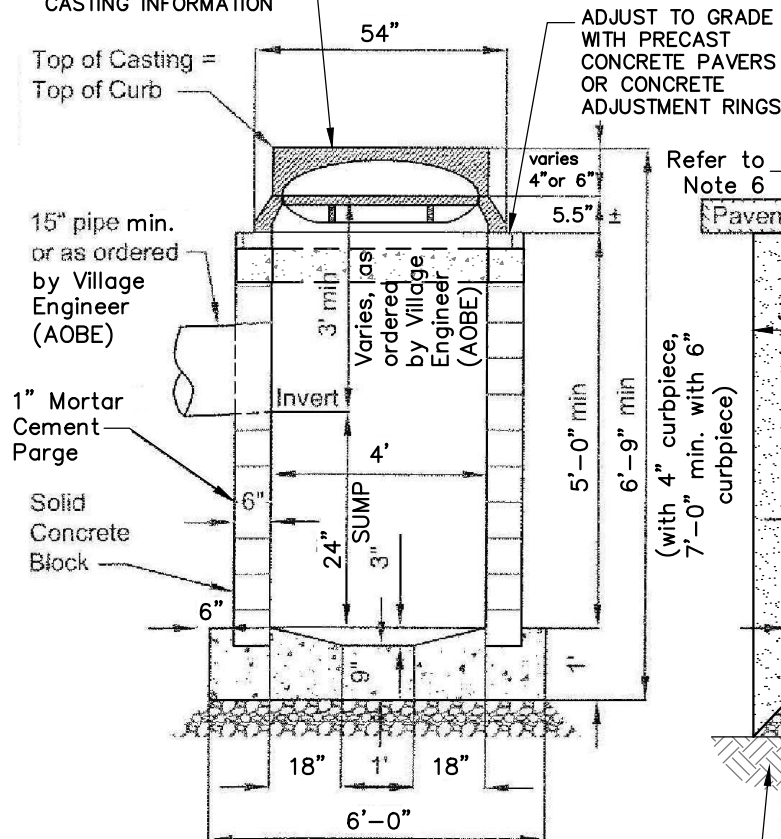


REFER TO VILLAGE STANDARD CATCH BASIN CURB INLET FRAME AND GRATE (WITH CURBPIECE) CONSTRUCTION DETAIL FOR CASTING INFORMATION

PLAN

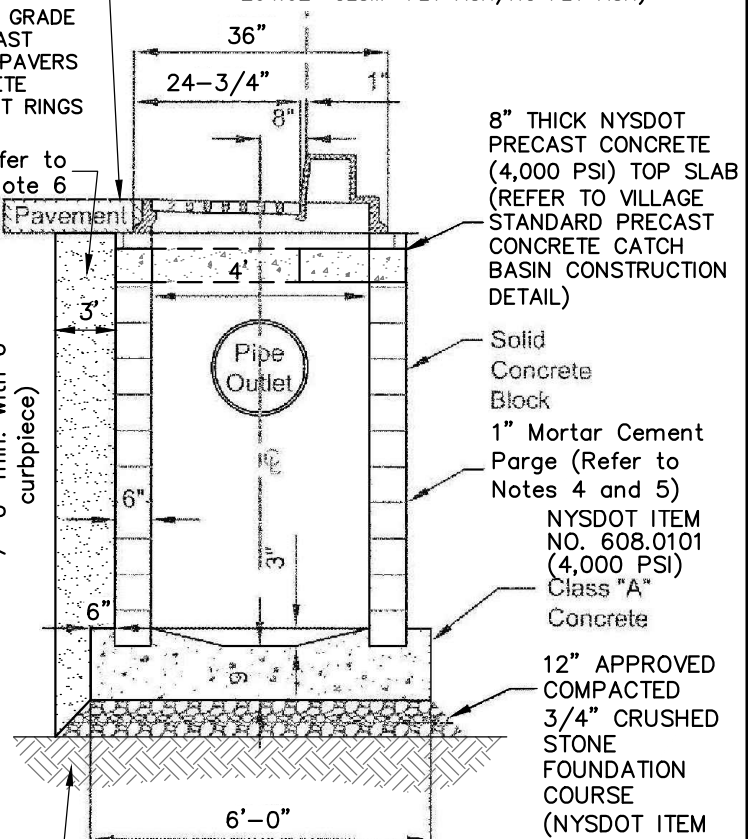
REFER TO VILLAGE ASPHALT CONCRETE PAVEMENT STANDARD CONSTRUCTION DETAIL NYSDOT HMA TYPE, ITEM NUMBERS AND THICKNESS

1. Top of curb inlet to be set to conform to top of curb grade.
2. Grade shall be depressed and set parallel to normal pavement section.
3. Adjacent curb to be chipped or formed to batter of catch basin curb piece.
4. MORTAR (TYPE S) FOR MASONRY WORK SHALL BE TYPE S MORTAR IN ACCORDANCE WITH ASTM C-270.
5. MORTAR SHALL MEET NYSDOT SPECIFICATION 705-21 "MORTAR FOR CONCRETE MASONRY". MORTAR SHALL BE COMPOSED OF TWO (2) PARTS TYPE II PORTLAND CEMENT (ASTM C 150), ONE (1) PART HYDRATED LIME (ASTM C 207, TYPE S) AND NINE (9) PARTS SAND (ASTM C 144), WELL GRADED WITH NO GRAIN LARGER THAN WILL PASS A NUMBER 8 SIEVE.
6. REFER TO VILLAGE STANDARD PRECAST CATCH BASIN CONSTRUCTION DETAIL FOR EXCAVATION PAY LIMITS AND BACKFILL MATERIAL (NYSDOT ITEM NO. 204.01 OR 204.02 "CLSM" FLY ASH/NO FLY ASH)



SECTION A-A

APPROVED COMPACTED SUBGRADE



SECTION B-B

NOTES:

1. FOR PARTIAL EXISTING MASONRY CATCH BASIN RECONSTRUCTION, CONTRACTOR SHALL CONSTRUCT THE PROPOSED PORTION OF MASONRY BLOCK CATCH BASIN TO MATCH EXISTING STRUCTURE INSIDE DIMENSIONS (i.e. LENGTH AND WIDTH), UNLESS OTHERWISE DIRECTED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
2. STRUCTURE DIMENSIONS DEPICTED ON THIS DETAIL ARE FOR PROPOSED MASONRY BLOCK CATCH BASIN CONSTRUCTION (i.e. NEW CATCH BASIN WHERE ONE DID NOT PREVIOUSLY EXIST OR COMPLETE REPLACEMENT).
3. MASONRY (CONCRETE) BLOCK TYPE 'A' CATCH BASIN SHALL CONFORM TO THE SPECIFICATIONS OF VOP ITEM NO. 604.07.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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MASONRY (CONCRETE) BLOCK TYPE 'F' CONCRETE CATCH BASIN

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-3F_Masonry Block Catch Basin (Type F) 1/2022



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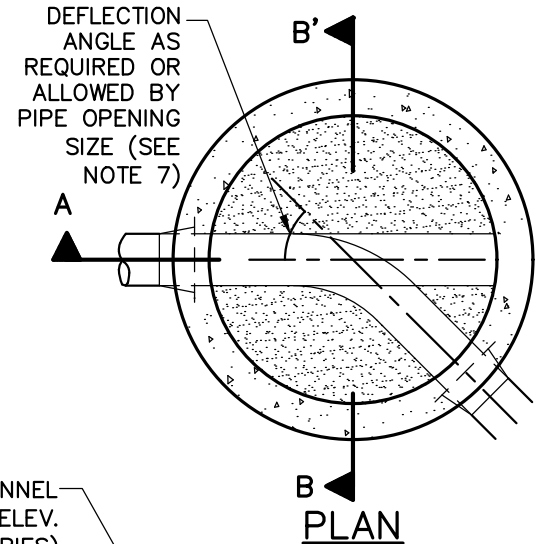
SD-3F

SELECTION TABLES FOR ALTERNATE ROUND SANITARY SEWER STRUCTURES

CONCRETE, POLYETHYLENE, PVC, DIP, CIP AND VCP PIPES		STRUCTURE INTERNAL DIAMETER				
		48"	60"	72"	84"	96"
RCP H.E. RISE X SPAN	ROUND INTERNAL DIAMETER	MINIMUM ANGLE BETWEEN PIPE ENTRIES (NOTE 5)				
	12"	84	63	50	41	35
	15"	94	70	56	46	39
	18"	104	78	62	51	43
	21"	115	85	68	56	48
	24"	127	93	74	61	52
	27"	141	102	81	67	57
	30"	157	111	87	72	61
19" X 30"		157	112	88	73	62
	34"		121	95	78	66
22" X 34"			125	97	80	68
	36"		133	102	84	71
24" X 38"			140	106	87	74
27" X 42"			156	115	94	79
	42"		164	119	96	81
29" X 45"				130	104	87
	48"			140	110	92
32" X 49"				145	113	94
34" X 53"				166	123	101
	54"			175	126	104
	60"				147	117

PRECAST ROUND MANHOLES

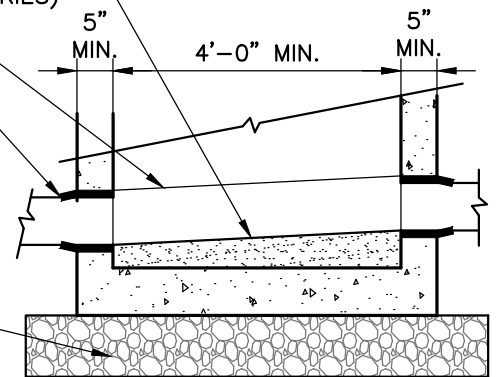
NYSDOT ITEM NO.	TYPE	CIRCUMFERENTIAL STEEL - SQUARE INCHES PER VERTICAL FOOT	INSIDE DIAMETER
660.40480006	48	0.12	48
660.40600006	60	0.15	60
660.40720006	72	0.18	72
660.40840006	84	0.21	84
660.40960006	96	0.24	96



CONCRETE CHANNEL (4,000 PSI) (ELEV. VARIES)

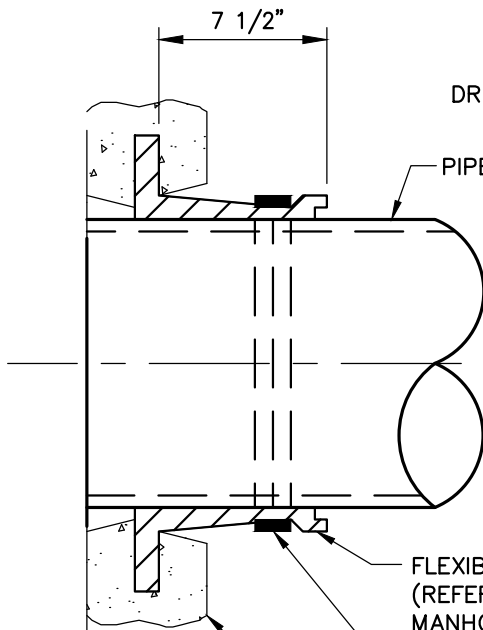
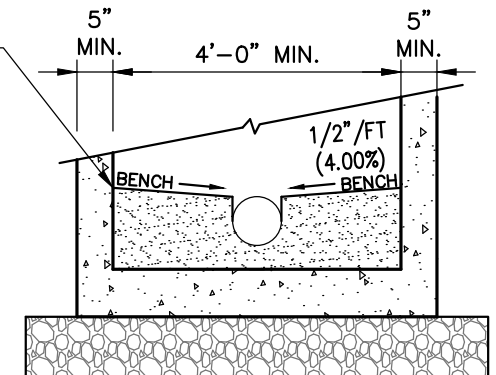
FORMED INVERT/FULL BENCH (ELEV. VARIES)

FLEXIBLE RUBBER BOOT CONNECTION FOR SANITARY SEWER MANHOLES ONLY (REFER TO RUBBER BOOT CONNECTION DETAIL ON THIS DRAWING AND SANITARY SEWER MANHOLE NOTE 11)



12" APPROVED COMPACTED 3/4" CRUSHED STONE FOUNDATION COURSE (NYSDOT ITEM NO. 623.12, SIZE DESIGNATION 2)

SLOPE BENCH 1/2" PER FT TOWARDS CHANNEL



RUBBER BOOT CONNECTION

FLEXIBLE RUBBER BOOT CONNECTION (REFER TO SANITARY SEWER MANHOLE NOTE 11)

STAINLESS STEEL STRAP SHALL BE FERNCO OR APPROVED EQUAL.

PRECAST MANHOLE WALL

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

PRECAST CONCRETE SANITARY SEWER MANHOLE (PAGE 2 OF 4)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4A_Sanitary Sewer Manhole (NYSDOT-PreCast).dwg



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SD-4A

GENERAL NOTES:

1. UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER, SANITARY SEWER STRUCTURES SHALL BE PRECAST CONCRETE UNITS. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL OF ANY CHANGES TO THE STRUCTURES SHOWN ON THIS DETAIL OR CONTRACT PLANS, OTHER THAN MINOR CHANGES APPROVED BY THE ENGINEER. USE OF FLAT SLAB TOPS ON ROUND PRECAST UNITS SHALL REQUIRE SUBMISSION OF WORKING DRAWINGS.
2. SEE PLANS FOR ELEVATIONS AND SANITARY SEWER STRUCTURE LOCATIONS.
3. RECTANGULAR STRUCTURES (ONLY WHERE DIRECTED AND AS APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER): REINFORCEMENT FOR RECTANGULAR SANITARY SEWER UNITS (ONLY WHEN REQUIRED FOR CONSTRUCTABILITY AND LARGER PIPE DIAMETERS) BAR REINFORCEMENT INDICATED FOR RECTANGULAR TOP SLABS, RISERS AND BASES SHALL BE GRADE 60. WIRE FABRIC FOR CONCRETE REINFORCEMENT SHALL MEET THE REQUIREMENTS OF §709-02. RISER REINFORCEMENT SHALL BE PLACED SO IT WILL HAVE A MINIMUM COVER OF 2" BUT NO MORE THAN 4" FROM THE INSIDE FACE. THE REINFORCEMENT SHALL EXTEND COMPLETELY AROUND THE SANITARY SEWER STRUCTURE RISER AND SHALL BE LAPPED AND TIED. BASE REINFORCEMENT SHALL BE PLACED ABOVE THE MIDPOINT OF SLAB AND SHALL HAVE A MINIMUM CONCRETE COVER OF 2".
4. ROUND STRUCTURES:
THE RISER, TOP SLAB, AND BOTTOM SLAB FOR THE ROUND ALTERNATE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE PROVISIONS OF §706-04 OF THE STANDARD SPECIFICATIONS. WORKING DRAWINGS FOR THE ROUND ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL, UNLESS THE ROUND ALTERNATE PROPOSED HAS BEEN PREVIOUSLY APPROVED. FOR PREVIOUSLY APPROVED ROUND UNITS THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED DRAWINGS TO THE ENGINEER.
5. FORMED INVERTS:
FORMED INVERTS SHALL BE PROVIDED AND INCLUDED IN THE PRICES BID FOR SANITARY SEWER STRUCTURES CALLED FOR IN THE CONTRACT DOCUMENTS. WHEN NON-CIRCULAR PIPES ARE USED, THE FORMED INVERT SHALL BE MODIFIED TO FIT THE INVERTS.
6. COVERS:
CASTINGS SHALL BE CAST IRON AND HAVE THE WORD "SANITARY" CAST ON THE COVER. THE COVER SHALL NOT HAVE VENT HOLES. REFER TO THE VILLAGE STANDARD MANHOLE CASTING CONSTRUCTION DETAIL FOR ADDITIONAL INFORMATION.
7. WALL OPENINGS:
RECTANGULAR STRUCTURES SHOULD NEVER HAVE CORNER PIPE ENTRIES. IF PIPE ALIGNMENT WOULD REQUIRE A CORNER ENTRY, USE A ROUND SANITARY SEWER STRUCTURE OR USE A SPECIAL SANITARY SEWER STRUCTURE. ALL WALL OPENINGS SHALL BE FORMED COMPLETELY THROUGH THE WALL SECTION. CIRCULAR WALL OPENINGS SHALL BE FORMED FOR EACH CIRCULAR PIPE ENTERING PERPENDICULAR TO THE WALL. WHEN NON-CIRCULAR PIPES ARE SPECIFIED, OR ROUND PIPE ENTRIES ARE SKEWED, RECTANGULAR OPENINGS MAY BE USED. THE CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE OPENING SHALL BE AT LEAST 2" BUT NO MORE THAN 3". THIS CLEARANCE SHALL BE MEASURED BETWEEN THE OUTSIDE OF THE PIPE AND NEAREST POINT ON THE RECTANGULAR OPENING. IF A CORNER HAS PIPE ENTRIES ON BOTH SIDES, AND THERE IS LESS THAN 2" BETWEEN EITHER OPENING AND THE CORNER THEN THAT SECTION OF THE SANITARY SEWER STRUCTURE MUST HAVE 8" THICK WALLS.
8. MONOLITHIC AND INTEGRAL BASES MAY HAVE A MAXIMUM VERTICAL DRAFT OF $\frac{1}{2}$ " ON ALL INTERIOR DIMENSIONS, TO FACILITATE FORM REMOVAL. FOR WALL OPENINGS THAT EXTEND THE FULL WIDTH OR LENGTH OF THE STRUCTURE, THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE WALL OPENING SHALL BE $\frac{1}{2}$ ".
9. FINISHING PIPE ENTRIES:
THE BELLS OF CONCRETE PIPE SHALL BE CUT OFF AT EVERY PIPE ENTRY WHERE THE BELL ENTERS A STRUCTURE. CONNECTIONS BETWEEN THE STRUCTURE AND PIPE SHALL BE MADE BY USING A RESILIENT CONNECTOR (i.e. RUBBER BOOT CONNECTION). PLEASE REFER TO SANITARY SEWER MANHOLE NOTE 11.
10. TOP SLAB AND OR FRAME AND GRATE ADJUSTMENT:
A MINIMUM OF $\frac{1}{2}$ " OF BEDDING SHALL BE PLACED BETWEEN RISER AND PRECAST TOP SLABS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATE OF UP TO $2\frac{1}{2}$ " SHALL BE MADE WITH BEDDING MATERIAL MEETING THE REQUIREMENTS OF MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIALS OR CONCRETE REPAIR MATERIAL. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATES OF UP TO 6" SHALL BE MADE WITH COMBINATION OF PRECAST CONCRETE PAVERS AND BEDDING MATERIALS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAME AND GRATES OF UP TO 1'-0" SHALL BE MADE WITH CAST-IN-PLACE CONCRETE OR A COMBINATION OF PRECAST CONCRETE ADJUSTMENT ELEMENTS AND BEDDING MATERIALS. ALTERNATELY, GRADE ADJUSTMENTS FOR FRAMES AND GRATES OF UP TO 2" MAY BE MADE WITH RECYCLED RUBBER ELEMENTS OR UP TO 3" WITH HDPE ELEMENTS. RECYCLED RUBBER AND HDPE ELEMENTS SHALL BE PRODUCTS APPROVED BY THE MATERIALS BUREAU AND SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. THE CONTRACTOR MAY USE ALTERNATE METHODS OF GRADE ADJUSTMENT, CONTINGENT UPON SATISFACTORY RESULTS BEING OBTAINED.
11. MANHOLE STEPS SHALL BE REQUIRED IN ALL SANITARY SEWER STRUCTURES DEEPER THAN 4'-0".
12. CORBELED OR CONICAL RISER SECTIONS AND FLAT SLAB REDUCERS.
ROUND PRECAST SANITARY SEWER STRUCTURES OR MANHOLES (WHEN ALLOWED OR SPECIFIED) MAY BE FITTED WITH CONCENTRIC OR ECCENTRIC CONICAL SECTIONS TO REDUCE THEIR DIAMETERS. PROVIDED THE USE OF SUCH DEVICES IS COMPATIBLE WITH THE DRAINAGE SYSTEM DESIGN. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL OF FLAT SLAB REDUCERS FOR ROUND OR RECTANGULAR STRUCTURES. A WALL SECTION WITH A HEIGHT LESS THAN 6" BETWEEN THE TOP OF THE HIGHEST PIPE ENTRY AND THE BOTTOM OF A CONICAL SECTION OR FLAT SLAB REDUCER SHALL NOT BE PERMITTED.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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PRECAST CONCRETE SANITARY SEWER MANHOLE (PAGE 3 OF 4)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4A_Sanitary Sewer Manhole (NYS DOT Precast).dwg



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SD-4A

GENERAL NOTES (CONT'D):

13. WHEN PIPE LOCATIONS PROVIDE FOR LESS THAN 8" BETWEEN THE TOP OF THE UPPERMOST PIPE AND THE TOP OF THE RISER AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, CONTACT THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER FOR A SPECIAL DESIGN.
14. WHEN SITE CONDITIONS REQUIRE A SANITARY SEWER STRUCTURE TO BE INSTALLED TO A DEPTH GREATER THAN THAT SHOWN IN THE CONTRACT DOCUMENTS, AN INSTALLATION TOLERANCE OF 8" IS PERMITTED WITHOUT REQUIRING AN INCREASE IN WALL THICKNESS OR REINFORCING STEEL AS REQUIRED BY TABLE ON THE VILLAGE "DRAINAGE STRUCTURE REINFORCEMENT" STANDARD CONSTRUCTION DETAIL.

SANITARY SEWER MANHOLE NOTES:

1. UNLESS OTHERWISE NOTED, SANITARY SEWER STRUCTURES SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 604, 664, 706-04 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
2. PRECAST ROUND MANHOLE SHALL BE TYPE 48, NYSDOT ITEM NO. 664.40480006 (OR LARGER AS REQUIRED TO ACCOMMODATE SANITARY SEWER PIPE) AND SHALL INCLUDE A MANHOLE FRAME AND COVER, MONOLITHICALLY POURED FLOOR SLABS AND PRECAST OR CAST-IN-PLACE CONCRETE FORMED BENCH AND FULL INVERT.
3. THE ABOVE VALUES ARE BASED ON THE CENTERLINE OF ALL PIPES INTERSECTING AT THE CENTER OF THE ROUND MANHOLE.
4. THE ANGLE BETWEEN ADJACENT PIPE ENTRIES SHALL NOT BE LESS THAN THE MINIMUM SHOWN IN THE TABLE ABOVE. WHEN THE ADJACENT PIPES HAVE DIFFERENT SIZES, THE MINIMUM ANGLE SHALL BE THE VALUE FOR THE LARGER OF THE TWO PIPES.
5. THE SUM OF THE MINIMUM ANGLES BETWEEN PIPES AT THE SAME LEVEL SHALL NOT BE MORE THAN 360 DEGREES. THEY SHALL BE REGARDED AS BEING AT THE SAME LEVEL IF THEIR RISES OVERLAP.5. A BLANK (NO ENTRY) IN TABLE INDICATES THAT THE STRUCTURE IS TOO SMALL FOR PIPE OF THAT SIZE.
6. SLOPE CHANNEL (i.e. BENCH, INVERT, ETC.) DOWN 0.10 FEET FROM INLET TO OUTLET.
7. MAKE CHANGES IN FLOW DIRECTION BY CIRCULAR CHANNEL CONSTRUCTION WITH MAXIMUM RADIUS POSSIBLE.
8. FOR DEAD-END MANHOLES, BUILD CHANNEL AS DIRECTED BY SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
9. EXTERIOR COATING FOR MANHOLE SHALL BE EITHER MOBIL 78-J-2 VAL-CHEM TAR-COAT, RUST-OLEUM 9300 EPOXY SYSTEM OR APPROVED EQUAL.
10. PRECAST REINFORCED CONCRETE TOP SLAB AND/OR PRECAST LANDING IF REQUIRED SHALL BE MANUFACTURED IN ACCORDANCE WITH THE DETAIL SHOWN ON THE CONTRACT PLANS. THE CONCRETE USED IN THE MANUFACTURING OF THESE SLABS SHALL BE MINIMUM 4000 PSI CONCRETE AS SPECIFIED UNDER SECTION 706-04, "PRECAST CONCRETE DRAINAGE UNITS" OF THE NYSDOT STANDARD SPECIFICATIONS.
11. PIPE CONNECTIONS INTO THE SANITARY SEWER MANHOLES SHALL BE AS FOLLOWS:
 - a. THE PRECAST REINFORCED CONCRETE MANHOLE BASE SHALL BE PROVIDED WITH CIRCULAR OPENINGS AT THE LOCATIONS AND ELEVATIONS FOR THE PROPER CONNECTION OF PIPES. THE PIPE CONNECTIONS SHALL BE SEALED WITH FLEXIBLE MANHOLE SEAL ASSEMBLIES.
 - b. THE FLEXIBLE MANHOLE SEAL ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SEAL ASSEMBLY MANUFACTURER AND SHALL CONFORM TO ASTM C923-02.
 - c. FLEXIBLE MANHOLE SEAL ASSEMBLIES SHALL PERMIT AT LEAST AN EIGHT (8) DEGREE DEFLECTION FROM THE CENTERLINE OF THE OPENING IN ANY DIRECTION WHILE MAINTAINING A WATERTIGHT CONNECTION.
 - d. THE FLEXIBLE MANHOLE SEAL ASSEMBLIES SHALL BE AS MANUFACTURED BY INTERPACE CORP. (LOCK JOINT FLEXIBLE MANHOLE SLEEVE), NATIONAL POLLUTION CONTROL SYSTEMS, INC. (KOR-N-SEAL) OR PRESS-SEAL GASKET CORP. OR APPROVED EQUAL.
12. A CAST-IN-PLACE CONCRETE INVERT SHALL BE FORMED WITHIN THE PRECAST CONCRETE MANHOLE BASE AS SHOWN ON THE CONTRACT DRAWINGS WITH CLASS A CONCRETE.
13. MANHOLE BASES
FOR PRECAST MANHOLE BASES, THE AREA UNDERNEATH THE MANHOLE BASE SHALL BE EXCAVATED TO THE REQUIRED ELEVATION. THE SOIL BELOW THE BASE SHALL NOT BE DISTURBED. THE MANHOLE BASE SHALL THEN BE LOWERED INTO THE TRENCH AND CHECKED FOR PROPER BEARING ON THE SUBGRADE, PROPER ELEVATION AND ORIENTATION TO RECEIVE THE INCOMING AND OUTGOING SEWERS AT THE DESIGNATED INVERT ELEVATION. IF THE INVERT ELEVATION VARIES BY MORE THAN PLUS OR MINUS ½ INCH FROM THE DESIGNATED INVERT ELEVATION, THE BASE SHALL BE REMOVED AND RESET.
14. CAST IN PLACE INVERTS
THE CONCRETE INVERT FILL SHALL BE INSTALLED FOLLOWING THE CONNECTION OF ALL SEWER PIPES TO THE MANHOLE. THE INVERT FILL SHALL BE TRUE TO THE SEWER PIPE INVERT ELEVATIONS, WITH SMOOTH CHANNELS OF UNIFORM CROSS SECTION AND SLOPE, EITHER STRAIGHT OR WITH A CONTINUOUS CURVE BETWEEN INLET AND OUTLET OF PIPES. THE CONCRETE INVERT FILL SHALL BE PLACED IN ACCORDANCE WITH DIMENSIONS AND DETAILS SHOWN ON THE CONTRACT PLANS. TO ELIMINATE FREE FALL CONDITIONS IN A MANHOLE RESULTING FROM INVERT ELEVATION DIFFERENTIALS BETWEEN INCOMING AND OUTGOING PIPES, THE CONTRACTOR SHALL FORM AND CONSTRUCT SUITABLE CHANNELS IN THE BOTTOM OF THE MANHOLE CONNECTING THE INVERTS. THE COMPLETE EXTERIOR, FLOW CHANNEL, AND BENCH SHALL RECEIVE A PRIME AND FINISH COAT OF THE SPECIFIED COATING. APPLICATION SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. MASONRY COLLAR
THE PRECAST CONCRETE PAVERS OR PRECAST CONCRETE COLLAR BE CONSTRUCTED ON THE PRECAST CONCRETE TOP SLAB TO BRING THE MANHOLE FRAME AND COVER TO THE PROPER GRADE IN ACCORDANCE WITH THE DETAIL ON THE CONTRACT PLANS. THE MINIMUM HEIGHT SHALL BE 4 INCHES AND THE MAXIMUM HEIGHT SHALL NOT EXCEED 16 INCHES. FOLLOWING THE PLACEMENT OF THE PAVERS A ½ INCH LAYER OF MASONRY MORTAR SHALL BE APPLIED TO THE EXTERIOR SURFACE OF BRICK AND TROWELLED TO A SMOOTH FINISH.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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AND VILLAGE ENGINEER

PRECAST CONCRETE SANITARY SEWER MANHOLE (PAGE 4 OF 4)

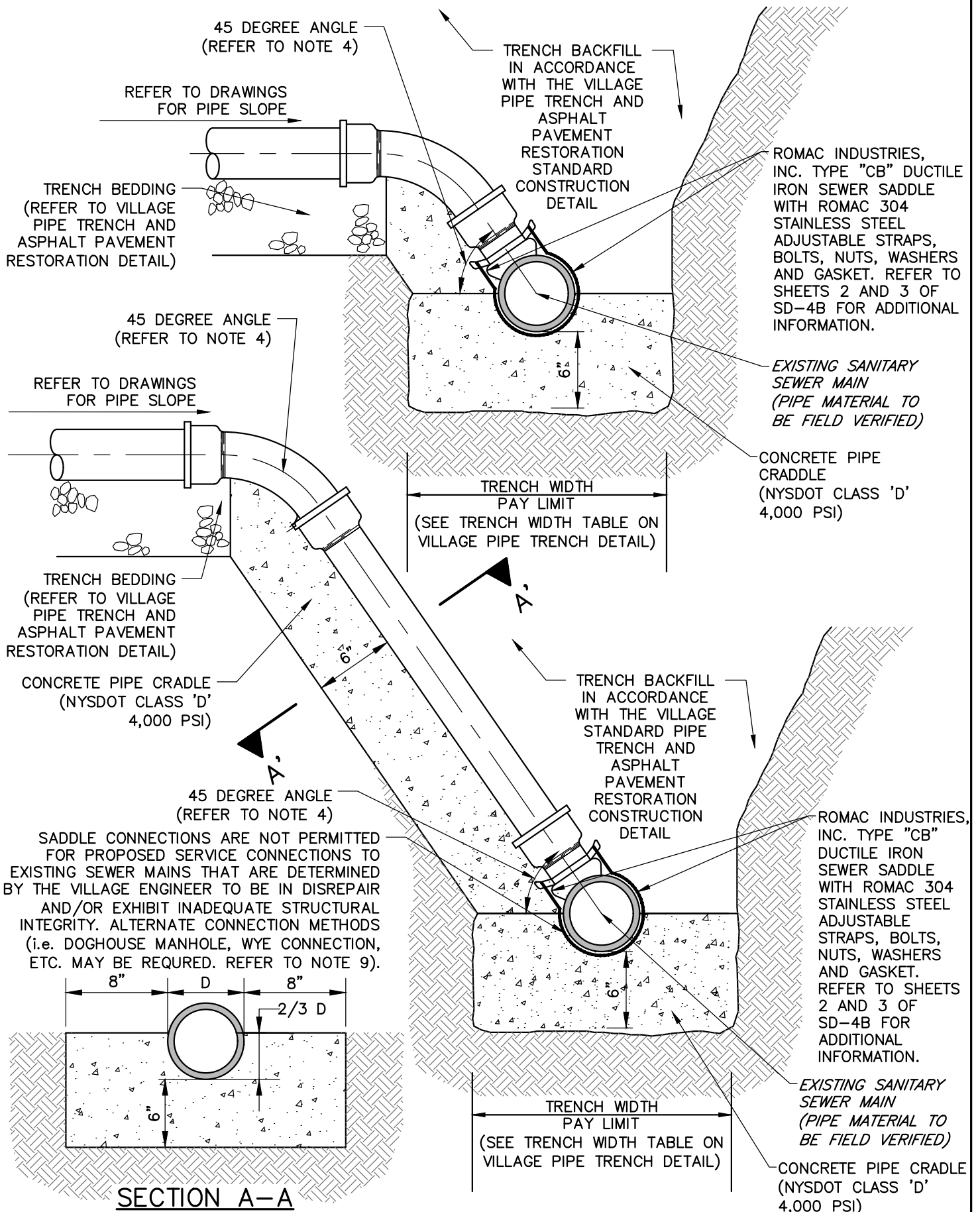
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4A_Sanitary Sewer Manhole (NYSDOT-Precast).dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-4A



VILLAGE OF PLEASANTVILLE
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AND VILLAGE ENGINEER

SANITARY SEWER LATERAL SADDLE CONNECTION TO EXISTING MAINS EXCLUDING CLAY (PAGE 1 OF 3)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4B_Sanitary Sewer Lateral Connection (Saddle).dwg



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SD-4B



**ROMAC
INDUSTRIES,
INC.**

1-800-426-9341

www.romac.com



Style "CB"™ Sewer Saddle

Material Specifications

Castings: Ductile iron per ASTM 536, Grade 65-45-12. Protected with a yellow shopcoat.

Adjustable Strap: 3 1/2" wide, stainless steel per ASTM A 240, type 304.

Bolts: 1/2" UNC rolled thread, lubricant coated, stainless steel per ASTM A 193, type 304.

Nuts: Stainless steel per ASTM A 194, type 304.

Washers: Stainless steel per ASTM A 240, type 304 and plastic lubricating washers.

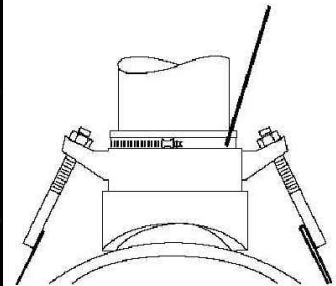
Gasket: SBR per ASTM D 2000 MBA 710, compounded for water and sewer service. Other compounds available on request.



**CB-4.80UN
Patent #4494780**

NOM. BRANCH SIZE	NOM. PIPE SIZE	RANGE	BRANCH TYPE	BRANCH O.D.	CATALOG NUMBER	LIST PRICE	ADD-ON EPOXY	APPROX WEIGHT (lbs.)
4"	6"-12" 48" Strap	6.27-14.40 Regular Gasket	PVC Sewer	4.215	CB-4.215	\$131.05	\$39.86	10 #
			Tyseal	4.28	CB-4.28			
			C.I. Soil-No Hub	4.38	CB-4.38			
			PVC	4.50	CB-4.50			
			Universal †	4.20-4.80	CB-4.80UN †			
	14"-24" 96" Strap	14.40-25.80 Large O.D. Gasket	Clay †	5.00-5.38	CB-5.38 †	166.65		11 #
			PVC Sewer	4.215	CB-4.215LS			
			Tyseal	4.28	CB-4.28LS			
			C.I. Soil-No Hub	4.38	CB-4.38LS			
			PVC	4.50	CB-4.50LS			
	24"-48" 192" Strap	25.80-54.00 Large O.D. Gasket	Universal †	4.20-4.80	CB-4.80UNLS †	309.30		13 #
			Clay †	5.00-5.38	CB-5.38LS †			
			PVC Sewer	4.215	CB-4.215XLS			
			Tyseal	4.28	CB-4.28XLS			
			C.I. Soil-No Hub	4.38	CB-4.38XLS			
6"	8"-12" 48" Strap	8.00-14.40 Regular Gasket	PVC Sewer	6.27-6.30	CB-6.30	174.70	60.29	12 #
			C.I. Soil-No Hub	6.27-6.30	CB-6.30LS			
			Universal †	6.27-6.66	CB-6.66UN †			
			Cast Iron-D.I.	6.90	CB-6.90			
			Clay †	7.19-8.00	CB-8.00 †			
	14"-24" 96" Strap	14.40-25.80 Large O.D. Gasket	PVC Sewer	6.27-6.30	CB-6.30LS	208.61		13 #
			C.I. Soil-No Hub	6.27-6.30	CB-6.30LS			
			Universal †	6.27-6.66	CB-6.66UNLS †			
			Cast Iron-D.I.	6.90	CB-6.90LS			
			Clay †	7.19-8.00	CB-8.00LS †			
	24"-48" 192" Strap	25.80-54.00 Large O.D. Gasket	PVC Sewer	6.27-6.30	CB-6.30XLS	351.27		15 #
			C.I. Soil-No Hub	6.27-6.30	CB-6.30XLS			
			Universal †	6.27-6.66	CB-6.66UNXLS †			
			Cast Iron-D.I.	6.90	CB-6.90XLS			
			Clay †	7.19-8.00	CB-8.00XLS †			

**Stainless Steel
Hose Clamp**



¹ CB Sewer Saddles for Universal and Clay pipe include stainless steel hose clamp.

² Regular gaskets are NOT interchangeable with large gaskets.

PARTS LIST

BRANCH SIZE	SIZE	GASKET	SADDLE CASTING	SLIDING BOLT	HOSE CLAMP ¹	STRAP
4"	6-12"	\$42.72	\$45.95	\$15.62	\$12.70	REG (48") \$42.38
	14-24"	58.27				LS (96") 62.42
	24-48"	58.27				XLS (192") 205.08
6"	8-12"	75.23	57.09	15.62	13.52	
	14-24"	89.10				
	24-48"	89.10				

To Order: Specify catalog number.

Example: To fit 4" branch to 6" -12" nominal pipe with branch 4.20 - 4.80, order **CB-4.80UN**

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

SANITARY SEWER LATERAL SADDLE CONNECTION TO EXISTING MAINS EXCLUDING CLAY (PAGE 2 OF 3)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-48_Sanitary Sewer Lateral Connection (Saddle).dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
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FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX
SD-4B

NOTES:

1. ALL SERVICE LINES SHALL HAVE A MINIMUM OF THREE AND ONE HALF (3 ½) FEET OF COVER.
2. SERVICE LINE LOCATION, GRADE AND ALIGNMENT SHALL BE AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER.
3. WHERE SERVICE LINES ARE TO BE DEAD-ENDED, CONTRACTOR SHALL INSTALL APPROVED WATERTIGHT AND PRESSURE-TIGHT PLUGS.
4. IF MINIMUM COVER CANNOT BE ATTAINED WHILE MAINTAINING MINIMUM SLOPE, THE ANGLE OF CONNECTION MAY BE REDUCED TO 22.5°, IF APPROVED BY THE ENGINEER AND GOVERNING BODY WITH JURISDICTION.
5. SANITARY SEWER SERVICE LINE INCLUDING FITTINGS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) SDR-26 CLASS 160 PRESSURE PIPE WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3212.
6. THE CONNECTION SHALL BE MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND IN THE PRESENCE OF THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
7. THE SADDLE SHALL PROPERLY MATCH THE EXISTING SANITARY SEWER MAIN.
8. ROUGH EDGES LEFT BY SAWCUT OR CORING SHALL BE SMOOTHED WITH A FILE OR SAND PAPER DEPENDING UPON THE MATERIAL OF THE SANITARY SEWER MAIN.
9. OVERCUTTING THE HOLE OR DAMAGING THE SANITARY SEWER MAIN WILL WARRANT REPLACEMENT OF THE DAMAGED MAIN LINE SEGMENT AND INSTALLATION OF A FACTORY MANUFACTURED WYE CONNECTION OR NYSDOT PRECAST CONCRETE DOGHOUSE MANHOLE.
10. THE HOLES MUST BE OFFSET A MINIMUM OF 2 FEET FROM THE JOINTS.
11. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER MUST INSPECT THE TAP AND PIPE TRENCH PRIOR TO AND DURING BACKFILL. THE OWNER, OWNER'S REPRESENTATIVE AND/OR CONTRACTOR SHALL CONTACT THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER AT (914) 769-3883 OR EMAIL SUPERINTENDENTPUBLICWORKS@PLEASANTVILLE-NY.GOV (24) HOURS PRIOR TO START OF THIS WORK.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

**SANITARY SEWER LATERAL
SADDLE CONNECTION TO EXISTING MAINS
EXCLUDING CLAY (PAGE 3 OF 3)**

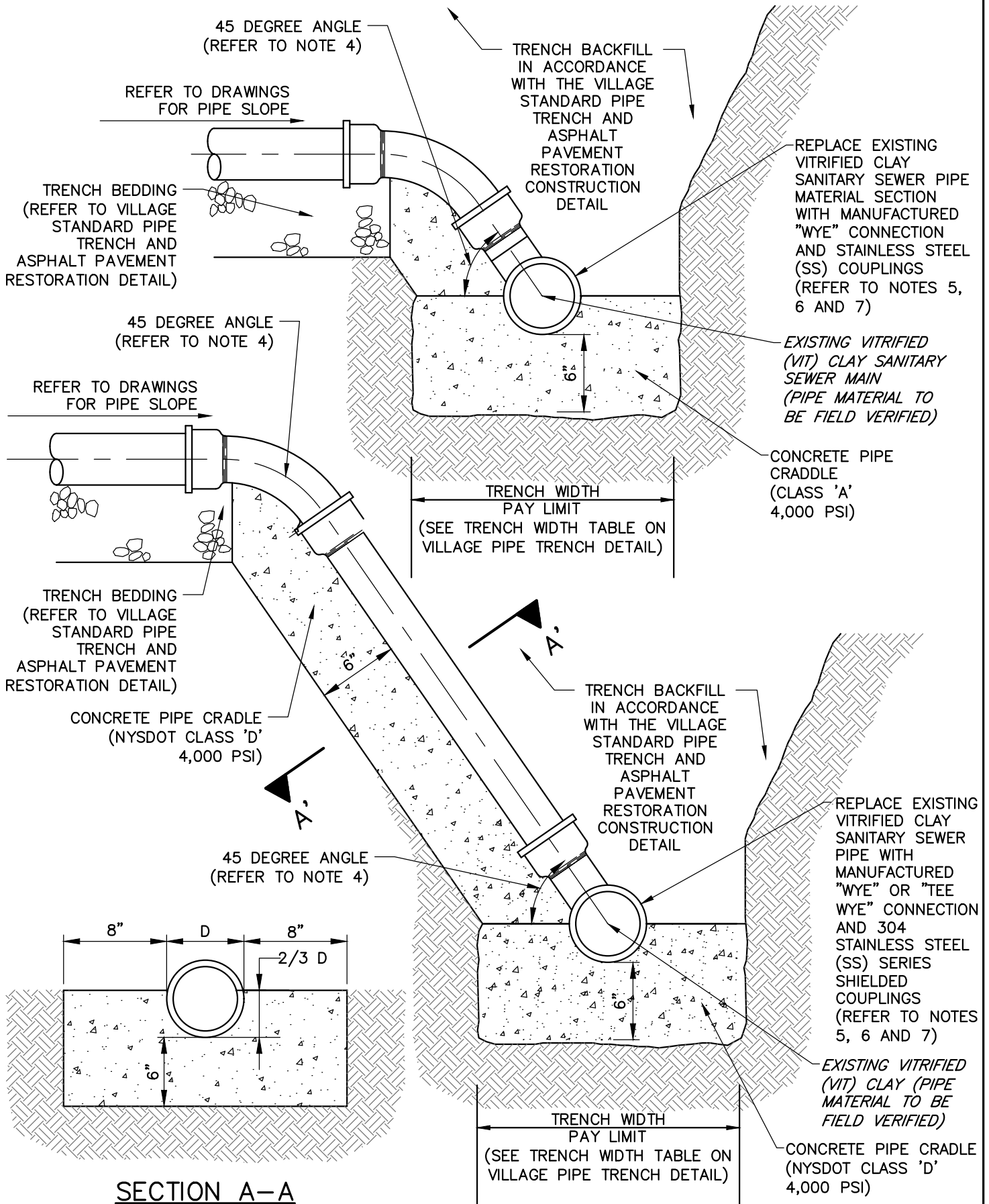
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4B_Sanitary Sewer Lateral Connection (Saddle).dwg



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SD-4B



VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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AND VILLAGE ENGINEER

SANITARY SEWER LATERAL WYE OR TEE CONNECTION TO EXISTING CLAY MAINS (PAGE 1 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4C_Sanitary Sewer Lateral Connection (Wye or Tee).dwg



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FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 08/16/2023
REV: 12/05/2023

SD-4C

NOTES:

1. ALL SERVICE LINES SHALL HAVE A MINIMUM OF THREE AND ONE HALF (3 ½) FEET OF COVER.
2. SERVICE LINE LOCATION, GRADE AND ALIGNMENT SHALL BE AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER.
3. WHERE SERVICE LINES ARE TO BE DEAD-ENDED, CONTRACTOR SHALL INSTALL APPROVED WATERTIGHT AND PRESSURE-TIGHT PLUGS.
4. IF MINIMUM COVER CANNOT BE ATTAINED WHILE MAINTAINING MINIMUM SLOPE, THE ANGLE OF CONNECTION MAY BE REDUCED TO 22.5°, IF APPROVED BY THE ENGINEER AND GOVERNING BODY WITH JURISDICTION.
5. SANITARY SEWER SERVICE LINE INCLUDING FITTINGS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) SDR-26 CLASS 160 PRESSURE PIPE WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3212.
6. THE CONNECTION SHALL BE MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND IN THE PRESENCE OF THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
7. THE MANUFACTURED WYE OR TEE-WYE CONNECTION SHALL BE INSTALLED BY BYPASSING SANITARY FLOW (IF NEEDED), CUTTING OUT SECTION OF VCP SANITARY SEWER MAIN, MAINTAINING SQUARE ENDS, AND INSERTING THE MANUFACTURED WYE OR TEE CONNECTION. THE JOINTS ON BOTH SIDES OF PVC WYE OR TEE-WYE FITTING SHALL BE CONNECTED TO THE EXISTING SANITARY SEWER MAIN USING **GRIPPER GASKET™ "MAXADAPTOR®"** 304 STAINLESS STEEL SERIES SHIELDED COUPLINGS, OR VILLAGE ENGINEER APPROVED EQUAL.
11. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER MUST INSPECT THE TAP AND PIPE TRENCH PRIOR TO AND DURING BACKFILL. THE OWNER'S REPRESENTATIVE AND/OR CONTRACTOR SHALL CONTACT THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER AT (914) 769-3883 OR EMAIL SUPERINTENDENTPUBLICWORKS@PLEASANTVILLE-NY.GOV (24) HOURS PRIOR TO START OF THIS WORK.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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AND VILLAGE ENGINEER

**SANITARY SEWER LATERAL
WYE OR TEE CONNECTION
TO EXISTING CLAY MAINS (PAGE 2 OF 2)**

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4C_Sanitary Sewer Lateral Connection (Wye or Tee).dwg



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SD-4C

Submittal

MAXADAPTOR® Couplings

Shielded, universal, high performance sewer repair couplings designed for the repair of most types and sizes of sewer/drainage pipes.



MAXADAPTOR® Couplings - Submittal

Performance Sewer Repair Couplings.

PROJECT _____

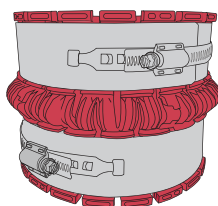
ENGINEER _____

CONTRACTOR _____

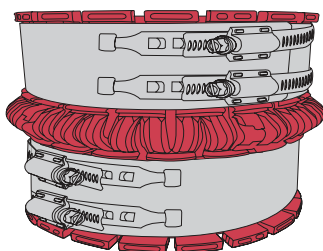
MATERIALS

Shear Band	Series 304 ASTM stainless steel	Securing Cage	High impact polyamide (nylon)
Screw Housing	Series 304 ASTM stainless steel	Gasket	EPDM rubber
Screw Saddle	Series 304 ASTM stainless steel		
Screw	Series 305 ASTM stainless steel		

MEETS:
ASTM C 1173
UPC 4224
CSA B602

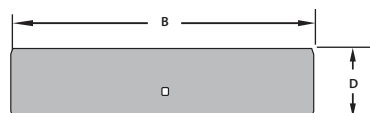
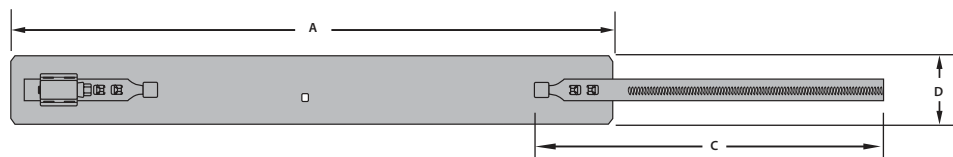


SIZES 4" THROUGH 8"
& 10" - 2 CLAMPS

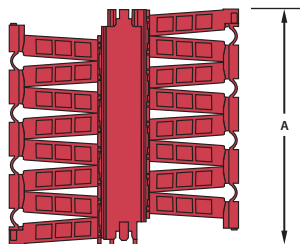


SIZES 9" &
12" THROUGH 16" - 4 CLAMPS

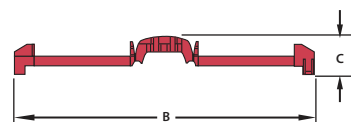
CLAMP ASSEMBLY DETAILS



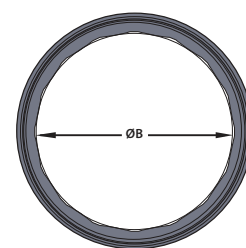
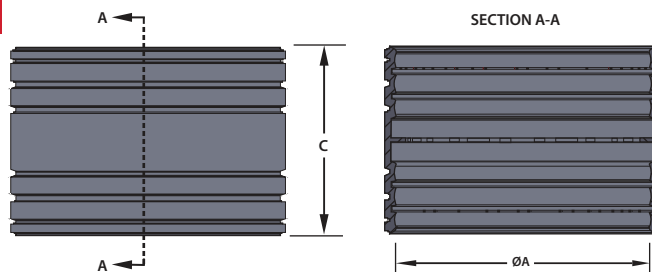
Band Thickness - .0315"



SECURING CAGE DETAILS



SEALING GASKET DETAILS



U.S. Patent Nos. US 8,651,532 B2
& US 8,635,747 B2

MAXADATOR REFERENCE	SIZE	CLAMP ASSEMBLY				SECURING CAGE			SEALING GASKET		
		A	B	C	D	A	B	C	ØA	ØB	C
MAX 4	4"	16.732"	8.465"	9.843"	1.929"	5.250"	5.900"	0.910"	5.285"	4.420"	5.345"
MAX 5	5"	20.276"	10.236"	9.843"	1.929"	5.250"	5.900"	0.910"	6.417"	5.720"	5.345"
MAX 6	6"	22.835"	11.614"	9.843"	1.929"	6.400"	6.200"	0.790"	7.575"	6.895"	5.935"
MAX 6 Oversize	6"+	25.750"	11.125"	11.496"	1.929"	5.250"	5.750"	0.910"	7.941"	7.250"	5.750"
MAX 7	7"	26.000"	13.250"	9.843"	2.323"	5.250"	5.750"	0.910"	8.628"	8.500"	6.375"
MAX 8	8"	29.528"	14.961"	11.496"	2.323"	8.000"	6.750"	0.690"	10.115"	9.358"	6.892"
MAX 9	9"	33.438"	19.719"	18.000"	2.725"	9.750"	8.250"	1.000"	11.230"	N/A	7.625"
MAX 10	10"	36.417"	18.504"	11.496"	2.323"	8.000"	6.750"	0.690"	12.625"	11.470"	6.788"
MAX 12	12"	45.520"	21.654"	18.110"	2.717"	9.500"	8.190"	0.910"	15.148"	N/A	7.660"
MAX 13	13"	41.250"	21.625"	21.500"	2.725"	9.750"	8.250"	1.000"	15.580"	N/A	7.625"
MAX 16	16"	55.500"	27.563"	18.100"	2.725"	9.750"	8.250"	1.000"	18.980"	N/A	7.625"

TEST	GASKET PHYSICAL TESTS (ASTM C1173)	ASTM C1173
Tensile Strength	1000 PSI minimum	D412
Elongation	200% minimum	D412
Durometer (Shore A)	50 minimum 75 maximum	D2240
Heat Aging	75% of original tensile strength 65% of original elongation All determined after oven aging at 70°C for 70 hours	D573
Ozone Cracking	No visible cracking at 2X magnification of the gasket after 24 hours exposure in 0.5 PPHM ozone concentrations at 40°C. Testing and inspection to be on gasket which is loop-mounted to give approximately 20% elongation of outer surface.	D1149
Water Absorption	20% maximum by weight after 7 days at 70°F	D471
Chemical Resistance	No weight loss 48 hours at 74°F	D543

MAXADAPTOR® Couplings are designed for the repair of most types and sizes of gravity flow, non-pressure sewer/drainage pipes. One coupling per nominal diameter joins clay, ductile iron, asbestos cement, cast iron and plastic. Coupling consists of corrosion resistant AISI 304 series stainless steel components, and a high impact polyamide (nylon) securing cage, over an injection molded EPDM rubber gasket. Couplings are available in sizes 4" through 16".

Leak-Proof Seal - AISI 304 series stainless steel components and high impact polyamide (nylon) securing cage provide sufficient band load to ensure a water-tight, leak-proof seal that is resistant to both infiltration and exfiltration.

Corrosion Resistant - AISI 304 series stainless steel components provide highly effective corrosion resistance in a variety of environments; such as marine applications, poorly aerated or moist soils, contaminated ground conditions (particularly industrial fill sites) and where the ground water contains chloride, sulfates or bicarbonates.

High Temperature Tolerance - Maximum temperature tolerance of 250° F.

Withstands Tension and Compression - EPDM rubbers permit a substantial degree of distortion without change in basic physical resistance, unlike other manufacturers' thermoplastic gasket materials. Molded rubber gasket is strong, durable and resilient to ultraviolet rays, ozone, fungus growth, natural erosive properties of soil and normal sewer gases. More pliable and easier to install in cold weather applications than an elastomeric PVC gasket.

Internal "Pipe Stop" - For proper pipe positioning and noise/vibration reduction.

Joint Movement Restraint - Coupling provides for superior load bearing control between the coupling and pipe surface. The coupling's rugged construction provides excellent sealing properties, and the stainless steel band plus securing cage offers excellent resistance to shear forces and helps with alignment, while maintaining flexibility.

Maximum Deflection - Deflection is possible on each side, up to 3°.

Pre-Set Calibration - Designed to be installed with a cordless drill to 80 in/lbs. minimum torque to accommodate ISI 305 series stainless steel 5/16" hex head screw.

Gripper Gasket LLC | 1660 Leeson Lane | Corona, CA 92879
(951) 479-4999

grippergasket.com

REV. 05/23



"A-4" or "A-6" Drop Bowl with Force Line Hood, as directed. Manufactured by Reliner/Duran, Inc., Lyme, CT., or approved equal.

PRECAST CONCRETE OR CONCRETE BLOCK SANITARY SEWER MANHOLE (AS ORDERED BY SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER)
FLEXIBLE RUBBER BOOT CONNECTION (RETROFITTED INTO EXISTING SANITARY SEWER MANHOLES AS DIRECTED BY VILLAGE ENGINEER)

4" or 6" PVC pipe as directed by Village Engineer

SANITARY SEWER MAIN

APPROVED COMPACTED SUBGRADE

SDR-26 PVC DROP PIPE
3'-0" MAX. SPACING
D > 24"

6" THICK APPROVED COMPACTED 3/4" CRUSHED STONE FOUNDATION COURSE (NYSOT ITEM NO. 623.12, SIZE DESIGNATION 2)

5'-0" LONG, 6" THICK NYSDOT CLASS 'D' (4,000 PSI) CONCRETE PAD (NYSDOT ITEM NO. 608.01)

Notes

- The "A-4" bowl will service up through full 6" inlets.
- The "A-6" bowl will service up through full 8" inlet.

1.5" WIDE STAINLESS STEEL STRAPS (REFER TO VILLAGE STANDARD CONSTRUCTION DETAIL)

FORMED OR BRICK INVERT
PRECAST OR BRICK MANHOLE BASE

90° PVC bend into formed/brick invert (not to top of bench)

FORMED OR BRICK BENCH

12" THICK APPROVED COMPACTED 3/4" CRUSHED STONE FOUNDATION COURSE (NYSOT ITEM NO. 623.12, SIZE DESIGNATION 2)

Drop Bowl - Service Connection

Clean out

"d" dia. Cross

End cap

PRECAST CONCRETE OR CONCRETE BLOCK SANITARY SEWER MANHOLE (AS ORDERED BY SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER)

FLEXIBLE RUBBER BOOT CONNECTION (RETROFITTED INTO EXISTING SANITARY SEWER MANHOLES AS DIRECTED BY VILLAGE ENGINEER)

SANITARY SEWER MAIN

APPROVED COMPACTED SUBGRADE

SDR-26 PVC DROP PIPE
3'-0" MAX. SPACING
D > 24"

5'-0" LONG, 6" THICK NYSDOT CLASS 'D' (4,000 PSI) CONCRETE PAD (NYSDOT ITEM NO. 608.01)

PRECAST CONCRETE OR CONCRETE BLOCK SANITARY SEWER MANHOLE

1.5" WIDE STAINLESS STEEL STRAPS (REFER TO VILLAGE STANDARD CONSTRUCTION DETAIL)

6" THICK APPROVED COMPACTED 3/4" CRUSHED STONE FOUNDATION COURSE (NYSOT ITEM NO. 623.12, SIZE DESIGNATION 2)

FORMED OR BRICK INVERT

PRECAST OR BRICK MANHOLE BASE

90° bend into formed/brick invert (not to top of bench)

12" THICK APPROVED COMPACTED 3/4" CRUSHED STONE FOUNDATION COURSE (NYSOT ITEM NO. 623.12, SIZE DESIGNATION 2)

NOTES:

Inside Drop Connection

- INSIDE DROP CONNECTION SHALL BE USED ONLY AS DIRECTED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER, OTHERWISE "DROP BOWL - SERVICE CONNECTIONS" SHALL BE CONSTRUCTED.
- LOCATION OF DROP CONNECTION INSIDE MANHOLE SHALL BE APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE STAINLESS STEEL STRAPS, DROP BOWL AND SDR-26 PVC DROP PIPE TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER FOR REVIEW AND APPROVAL.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

SANITARY SEWER MANHOLE INSIDE DROP CONNECTIONS

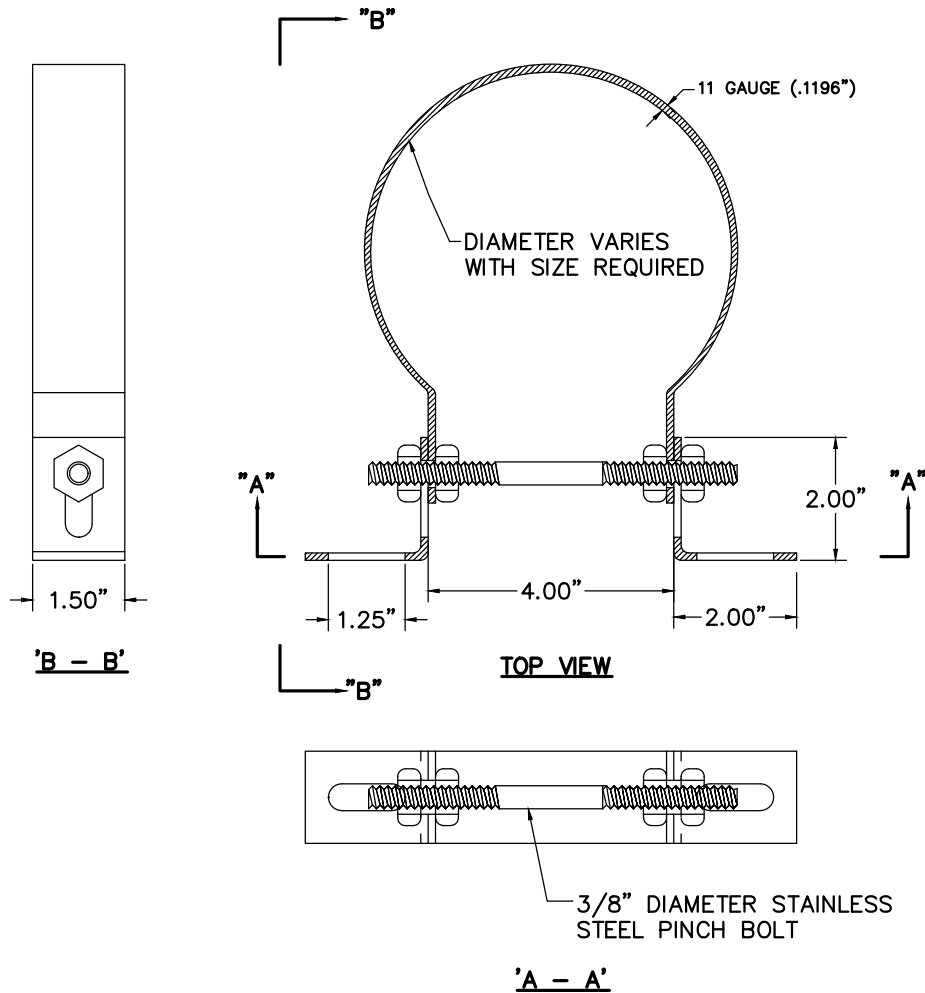
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4D_Sanitary Sewer Inside Drop Connections.dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-4D



NOTES:

1. CLAMP AND BRACKETS SHALL BE 304 STAINLESS STEEL, 11 GAUGE (0.1196 INCHES).
2. 3/8"Ø PINCH BOLT AND NUTS SHALL BE TYPE 18-8 STAINLESS STEEL.
3. STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS SHALL BE PART NUMBER 6SS40 MANUFACTURED BY RELINER/Duran INC. OR APPROVED EQUAL.
4. PIPE BRACKETS, BOLTS, CLAMPS AND ALL OTHER APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
5. REFER TO VILLAGE INSIDE AND OUTSIDE DROP CONNECTION STANDARD CONSTRUCTION DETAILS FOR DROP CONNECTION INFORMATION AND PIPE BRACKET SPACING (i.e. 3'-0" MAXIMUM).
6. REFER TO VILLAGE SANITARY SEWER MANHOLE STANDARD STANDARD CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE STAINLESS STEEL STRAPS TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER FOR REVIEW AND APPROVAL..

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

**SANITARY SEWER MANHOLE
DROP CONNECTION STEEL STRAPS**

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-4E_Sanitary Sewer Drop

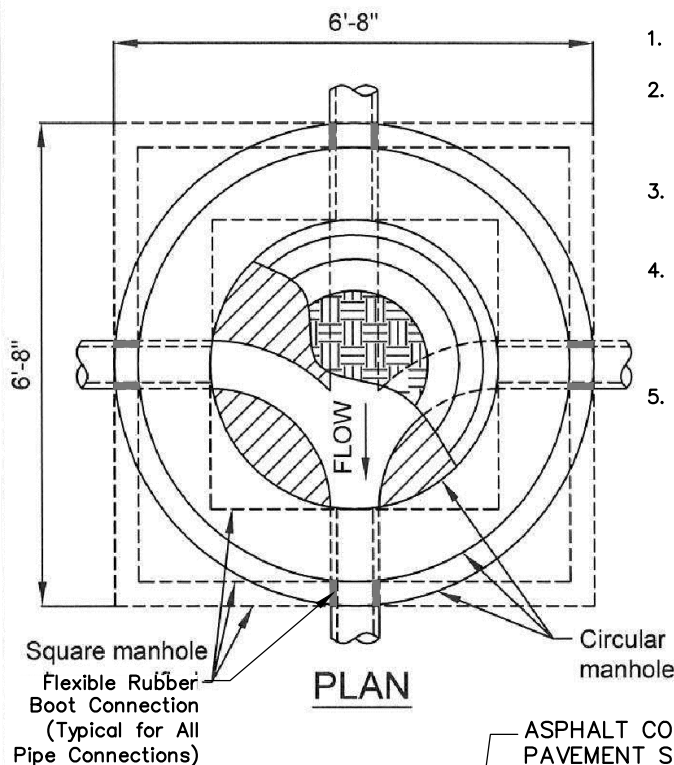


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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-4E

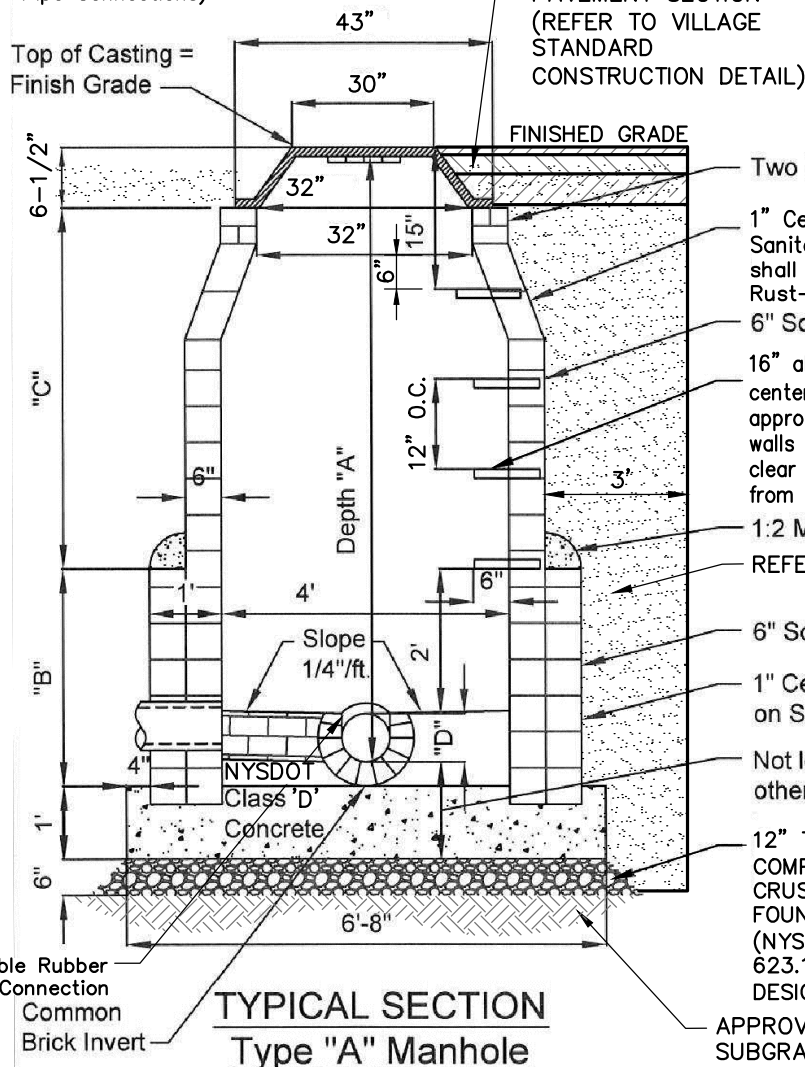
Connection Steel Straps.dwg



NOTES

1. Mortar (Type S) for masonry work shall be Type S mortar in accordance with ASTM C-270.
2. Cast iron frame and cover shall be Campbell Foundry Pattern No. 1012A. Refer to Village Precast Cast Concrete Sanitary Sewer Manhole General Note 6 and Storm/Sanitary Sewer Manhole Casting Standard Construction Details for frame and cover information.
3. Where pipe diameter are greater than 36", a Type 'C' concrete block manhole may be constructed at the discretion of the Superintendent of Public Works/Village Engineer.
4. Mortar shall meet NYSDOT specification 705-21 "mortar for concrete masonry". Mortar shall be composed of two (2) parts type II portland cement (ASTM C-150), one (1) part hydrated lime (ASTM C-207, Type S) and nine (9) parts sand (ASTM C-144), well graded with no grain larger than will pass a number 8 sieve.
5. Refer to Village precast concrete sanitary sewer manhole standard construction detail for excavation pay limits and backfill material (NYSDOT Item No. 204.01 "CLSM" with Fly Ash)

MANHOLE DIMENSIONS		
Depth "A" Top of Casting To Invert	"B" Height of 12" Wall	"C" Height of 6" Wall
6'-0"	2'-6"	3'-0"
7'-0"	3'-0"	3'-6"
8'-0"	3'-6"	4'-0"
9'-0"	3'-6"	5'-0"
10'-0"	4'-0"	5'-6"
11'-0"	4'-0"	5'-6"
12'-0"	4'-0"	7'-6"
13'-0"	4'-6"	8'-0"
over 13'-0"	Construct Precast Manhole	



Two (2) Courses of Common Brick (Minimum)

1" Cement Parge and Bituminous waterproofing on Sanitary Sewer Manhole. Exterior coating for manhole shall be either Mobil 78-J-2 Val-Chem Tar-Coat, Rust-Oleum 9300 Epoxy System or approved equal.

6" Solid Concrete Block

16" aluminum or reinforced plastic manhole steps 12" on center (16" max.). Steps shall be Neenah No. R-1981-0 or approved equal. Steps shall be embedded into the structure walls a minimum of 3 inches. Rung shall project a minimum clear distance of 4 inches from the structure walls measured from the point of embedment.

1:2 Mortar

REFER TO NOTE 5

6" Solid Concrete Block

1" Cement Parge waterproofing on Storm Drain manhole.

Not less than 16" unless otherwise ordered

12" THICK APPROVED COMPACTED 3/4" CRUSHED STONE FOUNDATION COURSE (NYSDOT ITEM NO. 623.12, SIZE DESIGNATION 2)

APPROVED COMPACTED SUBGRADE

NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MANHOLE CONSTRUCTION MATERIALS TO THE VILLAGE ENGINEER FOR REVIEW AND APPROVAL.
2. REFER TO FLEXIBLE RUBBER BOOT CONNECTION ON VILLAGE PRECAST CONCRETE SANITARY SEWER MANHOLE STANDARD CONSTRUCTION DETAIL.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

SANITARY SEWER MANHOLE (TYPE 'A' - CONCRETE BLOCK)

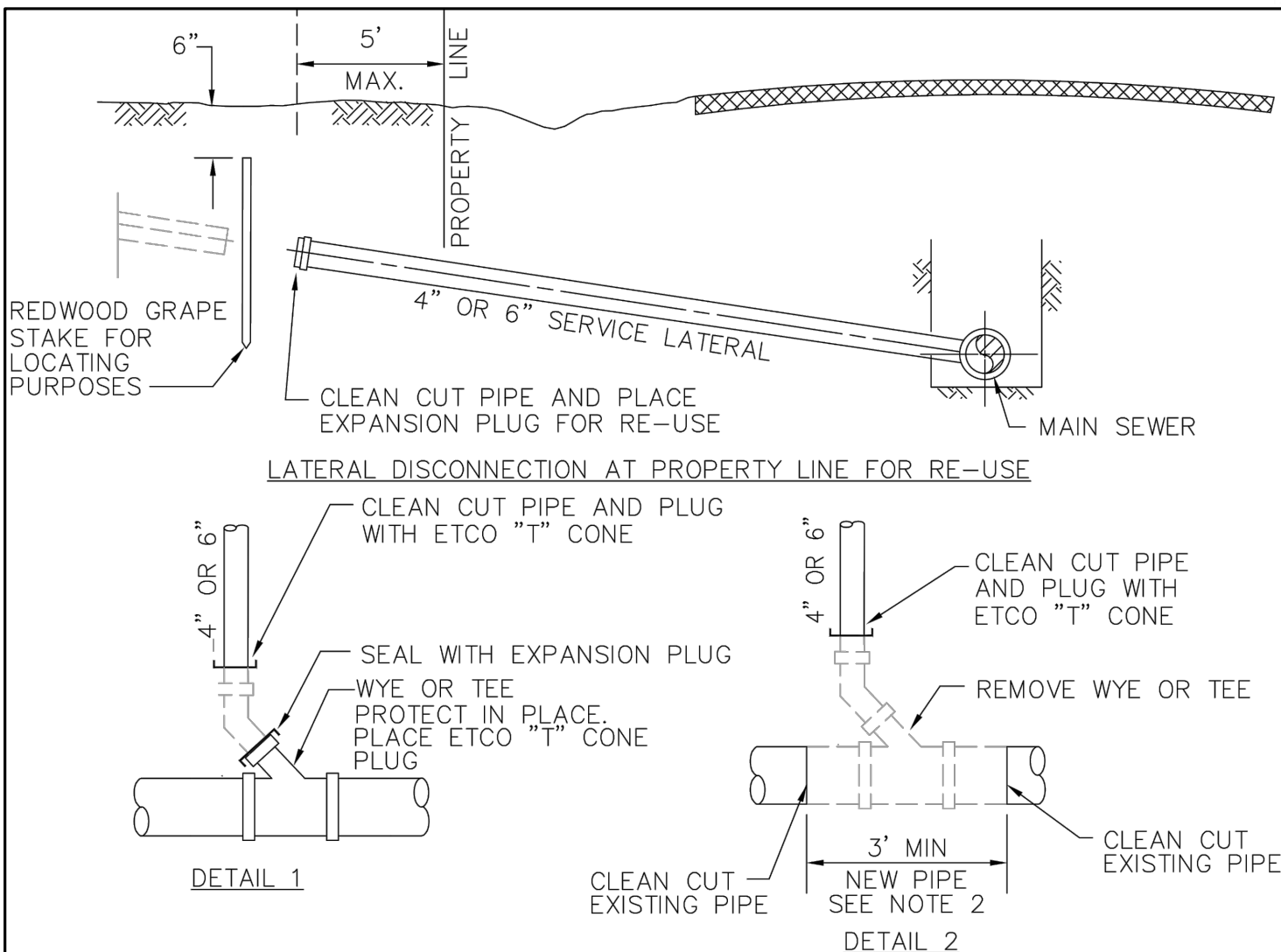
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DRAWN BY: ARC, PE VOP SD-4F_Sanitary Sewer Manhole (Concrete Block).dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
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WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-4F



NOTES:

LATERAL DISCONNECTION AT MAIN SEWER (SEE NOTES 1&5)

1. THE CONTRACTOR SHALL HAND EXCAVATE EXPOSING THE EXISTING WYE/TEE AT THE SANITARY SEWER MAIN LINE FOR INSPECTION BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER OR THEIR DESIGNEE. IF THE SANITARY SEWER MAIN AND WYE/TEE ARE DEEMED IN GOOD CONDITION, PLUG WYE/TEE AS SHOWN IN DETAIL 1. IF THE SANITARY SEWER MAIN IS IN GOOD CONDITION, AND THE WYE/TEE IS IN POOR CONDITION, REMOVE WYE/TEE AND SECTION OF THE SANITARY SEWER MAIN AS SHOWN IN DETAIL 2. IF BOTH THE SEWER MAIN AND WYE/TEE ARE IN POOR CONDITION, THE DEPARTMENT OF PUBLIC WORKS SHALL BE IMMEDIATELY NOTIFIED.
2. THE JOINTS ON BOTH SIDES OF REPLACEMENT SDR-26 OR 35 PVC WYE OR TEE-WYE FITTING SHALL BE CONNECTED TO THE EXISTING SANITARY SEWER MAIN USING **GRIPPER GASKET™ "MAXADAPTOR®" 304** STAINLESS STEEL SERIES SHIELDED COUPLINGS, OR VILLAGE ENGINEER APPROVED EQUAL (REFER TO SD-4C).
3. IF THE SANITARY SEWER MAIN IS CONCRETE ENCASED OR CRADLED, ANY PORTION REMOVED BY THE CONTRACTOR SHALL BE REPLACED AS REQUIRED BY THE DEPARTMENT OF PUBLIC WORKS.
4. THE CONTRACTOR SHALL SUPPLY THE ADDRESS OF ABANDONED SANITARY SEWER LATERAL AND DISTANCE AS MEASURED FROM THE DOWNSTREAM MANHOLE AND ALONG PERTINENT PROPERTY LINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT NO OTHER PROPERTIES ARE CONNECTED TO THE EXISTING SANITARY SEWER LATERAL PRIOR TO DISCONNECTION.
5. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER OR THEIR DESIGNEE, SHALL INSPECT THE DISCONNECTION PRIOR TO AND DURING BACKFILL. THE DEPARTMENT OF PUBLIC WORKS SHALL BE CONTACTED AT (914) 769-3883 OR EMAIL DPW@PLEASANTVILLE-NY.GOV (24) HOURS PRIOR TO START OF WORK.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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**SANITARY SEWER LATERAL
DISCONNECTION AT SEWER MAIN**

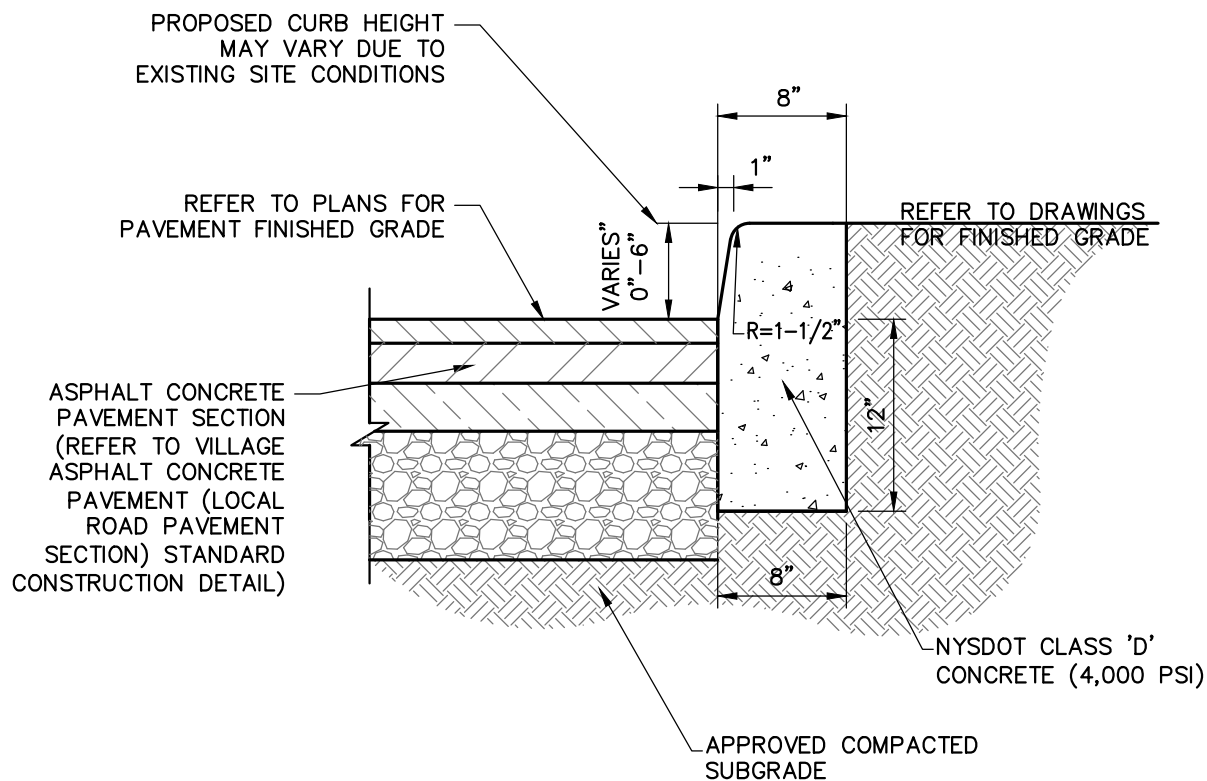
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DRAWN BY: ARC, PE VOP SD-4G_Sanitary Sewer Lateral Disconnection.dwg



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PHONE: (914) 769-3883
FAX: (914) 747-3831

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 03/28/2024
REV: XX/XX/202X

SD-4G



NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE CURB SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501 – PORTLAND CEMENT CONCRETE – GENERAL, SECTION 609 – CURB AND CURB & GUTTER, SECTION 623 – SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 – MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022, AS AMENDED.
2. CONSTRUCTION JOINT SHALL BE INSTALLED AT THE MID-POINT BETWEEN EXPANSION JOINT SO CURB SEGMENT LENGTH WILL BE TEN (10 FEET).
3. PREMOULDED BITUMINOUS EXPANSION JOINT SHALL BE INSTALLED BETWEEN CURB SEGMENT TO SCALE EVERY TWENTY (20) FEET.
4. MATCH EXPANSION JOINT IF CURB IS INSTALLED ADJACENT TO SIDEWALK OR CONCRETE PAVEMENT.
5. CURB SEGMENT LENGTH MAY DIFFERENTIATE AT CLOSURE POINT, BUT SHALL NOT BE LESS THAN FOUR (4) FEET.
6. CURB SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 609.10010109.
7. CAST-IN-PLACE CONCRETE CURB SHALL BE USED IN AREAS AS DIRECTED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER WHERE MONOLITHIC CURB AND SIDEWALK CONSTRUCTION IS NOT REQUIRED AND/OR FEASIBLE (e.g. ADJACENT TO LAWN AREAS).
8. PLEASE REFER TO VILLAGE ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE SIDEWALKS STANDARD CONSTRUCTION DETAIL FOR ADDITIONAL INFORMATION.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

CAST-IN-PLACE (CIP) CONCRETE CURB

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5A_Cast-in-Place Concrete Curb.dwg



VILLAGE OF PLEASANTVILLE
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PROJECT: DETAILS
SCALE: NOT TO SCALE

DATE: 10/25/2022
REV: 11/27/2022

SD-5A

NOTES:

1. GRANITE CURB TO BE SPLIT FACE, SAWN TOP, EQUAL TO TYPE V4x16 FOR STRAIGHT CURB AND TYPE V5x16 FOR RADIUS CURB AS MANUFACTURED BY EITHER NORTH CAROLINA GRANITE, WILLIAMS STONE OR GENEVA GRANITE. JOINT OPTION SHALL BE STANDARD.
2. MINIMUM LENGTH OF STRAIGHT CURB SHALL BE 4'-0" AND RADIUS CURB SHALL BE 2'-6".
3. 1/4" ROUND OR "BUZZED EDGE" ON FRONT ARRIS LINE - COLOR GRAY.

AT SAWCUT LINES, APPLY TACK COAT (NYSOT ITEM NO. 407.0101) ALONG VERTICAL FACE OF JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE PAVEMENT

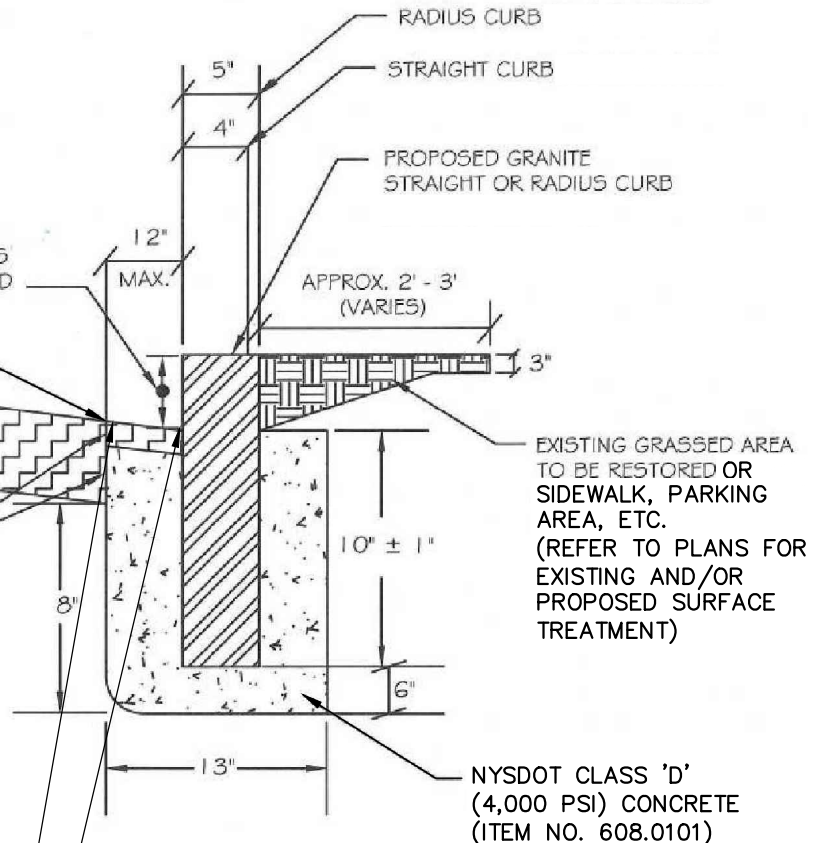
EXISTING PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE PAVEMENT SECTION (DEPTH VARIES)

EXISTING FINISHED CONCRETE PAVEMENT: POUR CONCRETE FLUSH WITH EXISTING PAVEMENT GRADE.

EXISTING ASPHALTIC CONCRETE SURFACE: POUR CONCRETE 2" BELOW EXISTING FINISHED PAVEMENT GRADE AND INSTALL 2" OF AC SURFACE COURSE OR AS DIRECTED. TYPE 6 F2 (NYSOT ITEM NO. 403.178202) TOP COURSE

CAP SEAM WITH HOT ASPHALT CONCRETE (AC) SEALANT (i.e. MISCELLANEOUS ASPHALT CEMENT, NYSOT ITEM NO. 618.07)

UNLESS OTHERWISE SPECIFIED ON THE PLANS, MEET EXISTING GRADE AT PAVEMENT SEAM AND BOTTOM FACE OF CURB



NOTES:

1. UNLESS OTHERWISE NOTED, GRANITE CURB AND PORTLAND CEMENT CONCRETE CRADLE SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501, 609 AND SUBSECTION 700 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS.
2. GRANITE CURB SHALL CONFORM TO THE SPECIFICATIONS OF NYSOT ITEM NO. 609.02090001.
3. THE GENERAL CONSTRUCTION DETAILS FOR MANUFACTURING AND TRANSPORTING CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 501, PORTLAND CEMENT CONCRETE- GENERAL.
4. THE VERTICAL FACE OF THE COLD BUTT JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE SEALED WITH TACK COAT AND THE SEAM SHALL BE SEALED WITH HOT AC SEALANT AS SHOWN ABOVE.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

GRANITE CURB

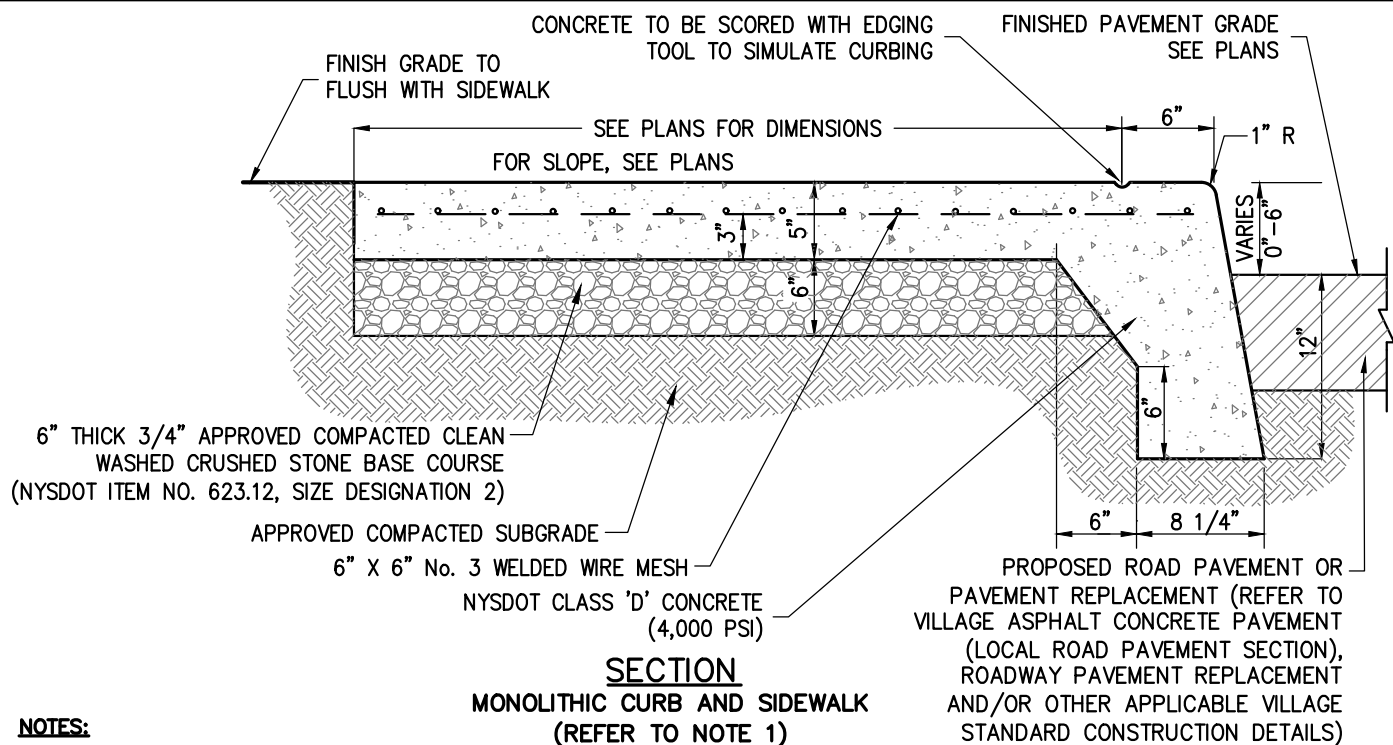
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5B_Granite Curb.dwg



VILLAGE OF PLEASANTVILLE
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FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-5B



NOTES:

1. WHEN SIDEWALK ABUTS A ROADWAY AND/OR AT SIDEWALK CURB RAMPS, CURB AND SIDEWALK MAY BE MONOLITHICALLY CONSTRUCTED AS DIRECTED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
2. UNLESS OTHERWISE NOTED, MONOLITHIC PORTLAND CEMENT CONCRETE CURB AND SIDEWALK SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501 – PORTLAND CEMENT CONCRETE – GENERAL, SECTION 608 – SIDEWALKS, DRIVEWAYS, BICYCLE PATHS AND VEGETATION CONTROL STRIPS, SECTION 609 – CURB AND CURB & GUTTER, SECTION 623 – SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 – MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSOT) STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2023, AS AMENDED.
3. WELDED WIRE FABRIC REINFORCEMENT SHALL BE MADE OF W2.9 OR W3 WIRE AT 6 INCH CENTERS TRANSVERSELY CONVENTIONALLY FORMED CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS D IN ACCORDANCE WITH SECTION 501 "PORTLAND CEMENT CONCRETE—GENERAL." ALL CONCRETE SHALL CONTAIN A WATER-REDUCING ADMIXTURE MEETING THE REQUIREMENTS OF §711-08 IN SUCH A QUANTITY AS TO PROVIDE A MINIMUM 10% REDUCTION OF THE DESIGN WATER CONTENT BY USING A NORMAL RANGE WATER-REDUCER. WWF SHALL BE MANUFACTURED IN SHEETS AND PLACED WITH IN CONCRETE BY CHAIRING.
4. REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS.
5. INSTALL A PREMOULDED RESILIENT JOINT FILLER, §705-07, AT ALL JOINTS BETWEEN SIDEWALK AND CURB, PAVEMENT, BUILDING, ETC. THE PREMOULDED RESILIENT JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF ASTM D1751.
6. THE EXPANSION JOINTS SHALL BE LOCATED AT ALL IMMOVABLE OBJECTS (BRIDGE SUBSTRUCTURES, ETC.), WHERE SHOWN ON THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER. EXPANSION JOINTS SHALL BE REQUIRED AT 20 FOOT INTERVALS.
7. PREMOULDED RESILIENT JOINT FILLER (§705-07). USE 3/8 – 5/8 INCH THICK FILLER IN TRANSVERSE EXPANSION JOINT ASSEMBLIES ONLY. INCLUDE A ONE-PIECE PREMOULDED RESILIENT JOINT FILLER IN THE ASSEMBLY THAT EXTENDS COMPLETELY ACROSS THE SLAB WIDTH. THE JOINT FILLER MUST EITHER EQUAL THE FULL DEPTH OF THE SLAB, OR EXTEND FROM THE BOTTOM OF THE SLAB TO WITHIN 1 1/2 – 2 INCHES OF THE TOP OF THE SLAB WITH A FINISHING CAP THAT EXTENDS TO THE TOP OF THE SLAB.
8. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONCRETE SURFACE SHALL BE SCORED AND TOOLED AT INTERVALS OF 5 FEET. SCORE THE CONCRETE A MINIMUM 1/8 INCH TO A MAXIMUM 1/4 INCH IN WIDTH AND TO A MINIMUM DEPTH OF ONE-THIRD THE TOTAL THICKNESS.
9. 3 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EVERY 4 FEET. 4 AND 5 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE SIDEWALK. SIDEWALKS MAY BE CONVENTIONALLY FORMED OR MACHINE FORMED.
10. ONLY MAGNESIUM FLOATS AND TROWELS ARE ALLOWED. THE USE OF ALUMINUM OR STEEL FINISHING TROWELS AND TOOLS IS PROHIBITED. THE CONCRETE SHALL BE FINISHED TO PRODUCE A SMOOTH SURFACE AND THEN LIGHTLY BROOMED TO A UNIFORM TEXTURE. THE EDGES AND SCORED JOINTS OF ALL SIDEWALK SLABS SHALL BE TOOLED WITH AN EDGING TOOL HAVING A 1/4 INCH RADIUS.
11. ALL WORK SHALL BE IN ACCORDANCE WITH NYSDOT SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES AND GRADES SHOWN ON THE PLANS OR ESTABLISHED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
12. CURB SHALL CONFORM TO THE REQUIREMENTS OF NYSDOT ITEM NO. 609.10010109. SIDEWALK SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 608.0101. CRUSHED STONE SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 623.12.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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**CAST-IN-PLACE CONCRETE
MONOLITHIC CURB AND SIDEWALK
(PAGE 1 OF 2)**

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5C_Monolithic Curb & Sidewalk.dwg

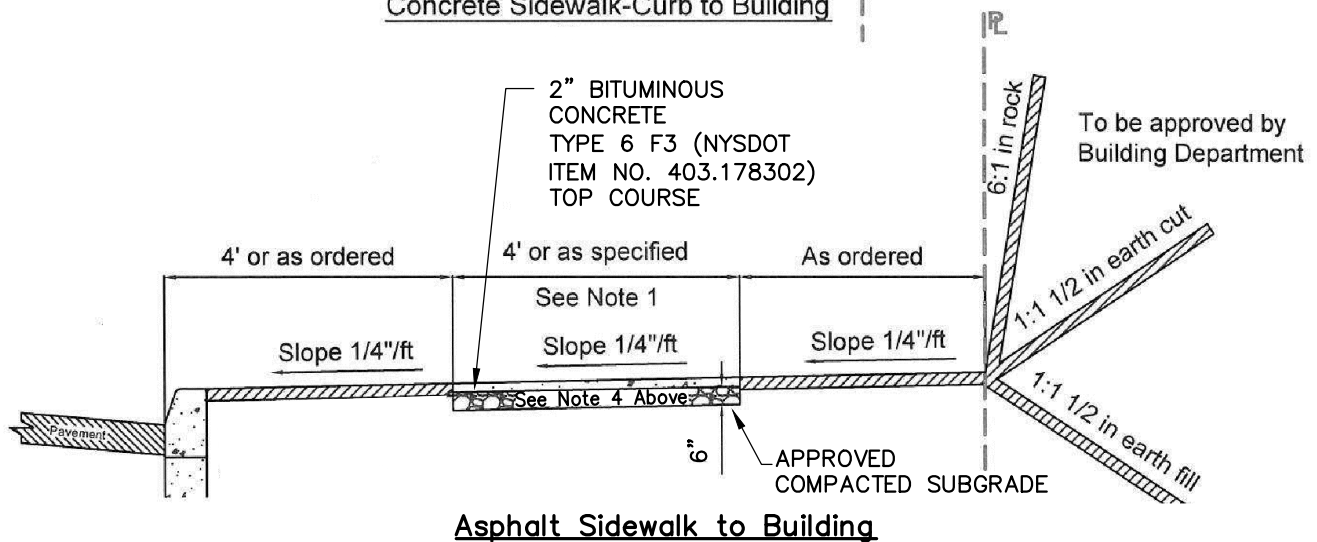
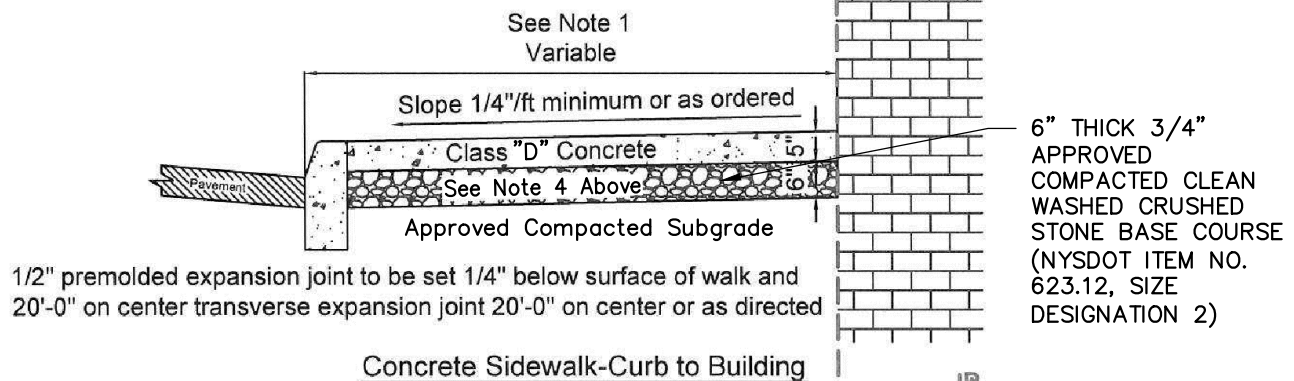
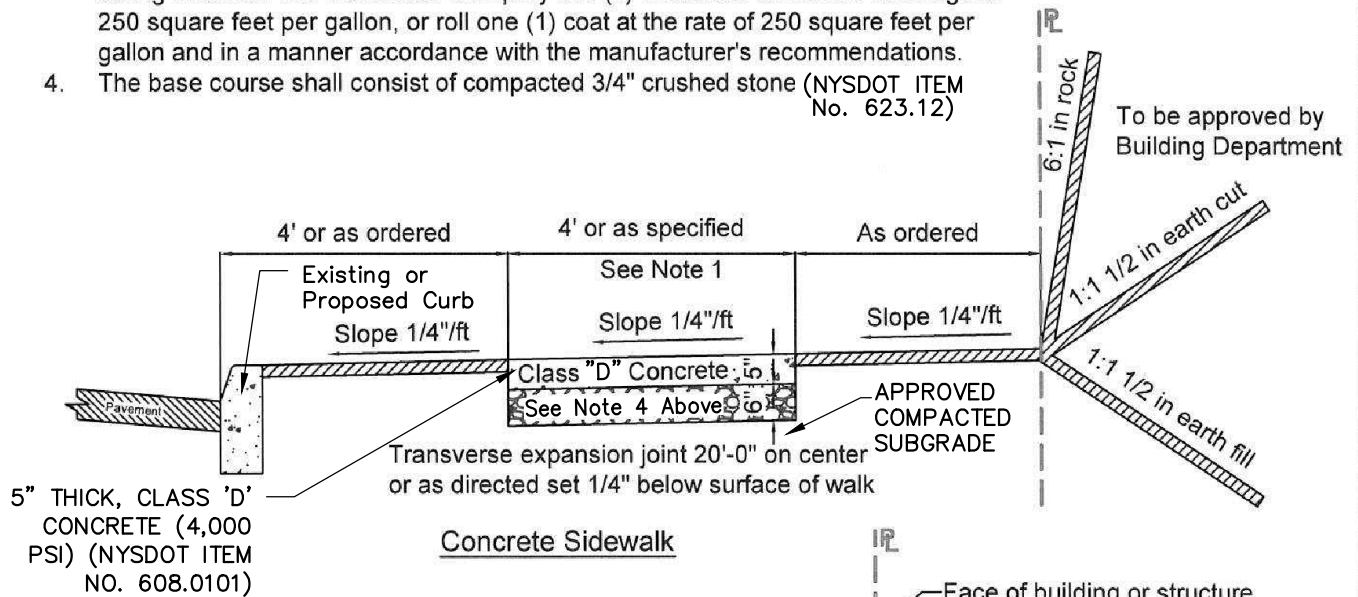


VILLAGE OF PLEASANTVILLE
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 11/27/2022
REV: 08/16/2023
SD-5C

NOTES

1. Sidewalks wider than 4'-0" or as directed shall be reinforced with epoxy coated welded wire fabric W2.9 OR W3 WIRE AT 6 INCH CENTERS TRANSVERSELY
2. All concrete sidewalks shall have a broomed finish surface with scores at 5'-0" O.C.
3. Immediately after finishing the concrete, the Contractor shall apply an approved curing material. The Contractor will spray two (2) coats at a combined coverage of 250 square feet per gallon, or roll one (1) coat at the rate of 250 square feet per gallon and in a manner accordance with the manufacturer's recommendations.
4. The base course shall consist of compacted 3/4" crushed stone (NYSDOT ITEM No. 623.12)



VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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CAST-IN-PLACE CONCRETE MONOLITHIC CURB AND SIDEWALK (PAGE 2 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5C_Monolithic Curb & Sidewalk.dwg



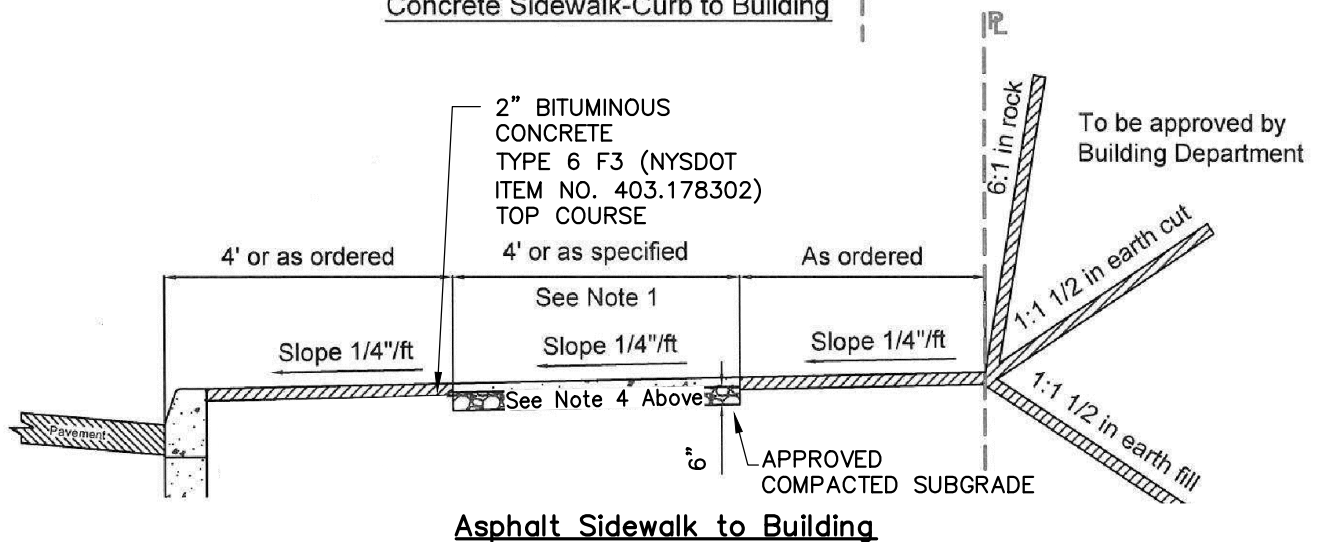
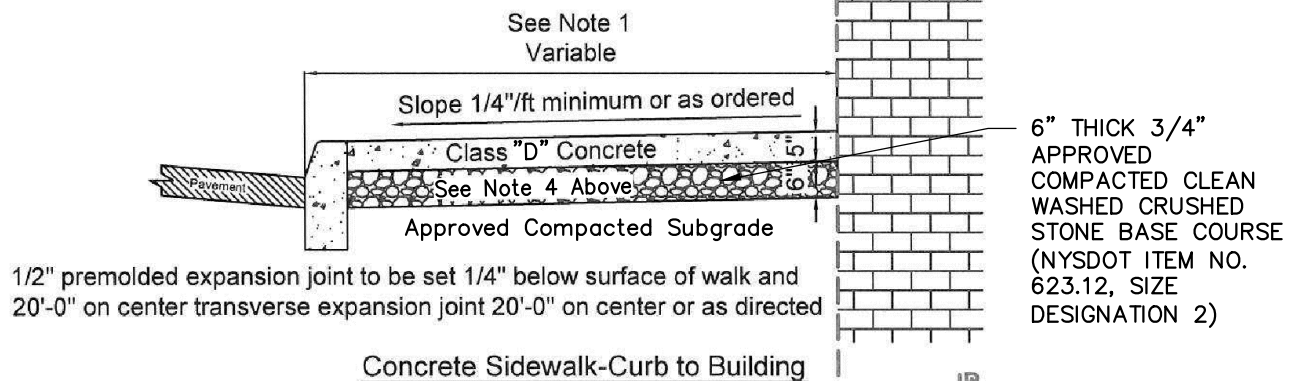
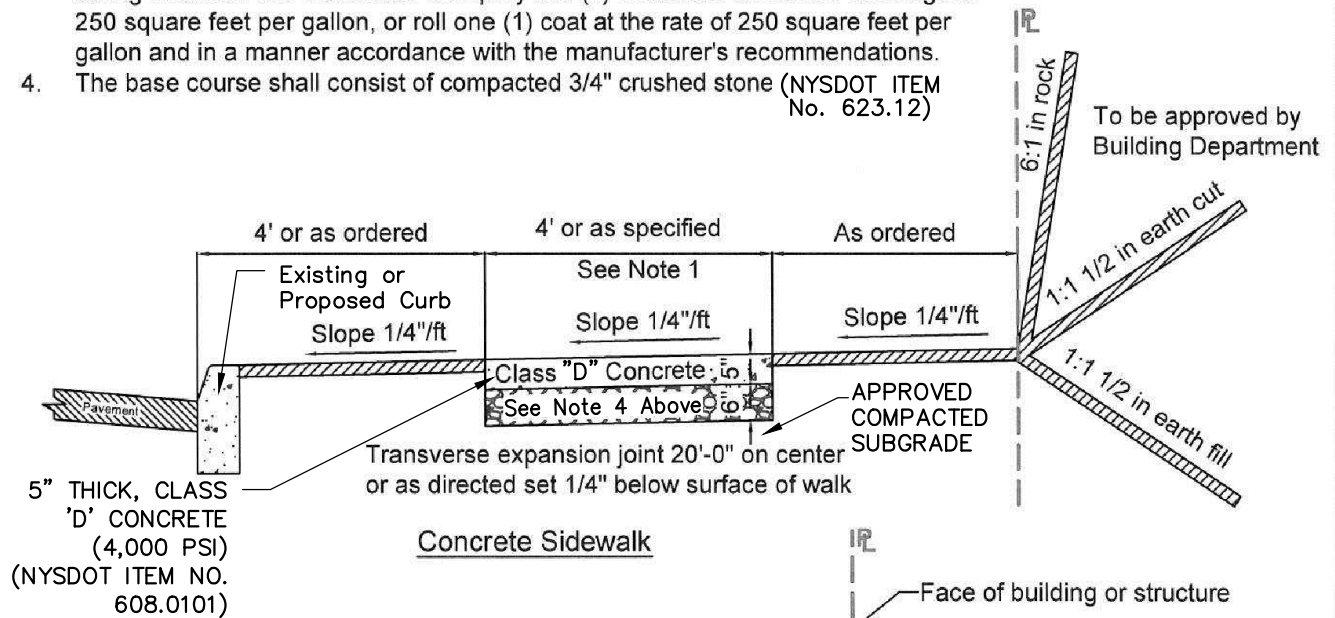
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PHONE: (914) 769-3883
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 12/30/2022
REV: 08/16/2023

SD-5C

NOTES

1. Sidewalks wider than 4'-0" or as directed shall be reinforced with epoxy coated welded wire fabric W2.9 OR W3 WIRE AT 6 INCH CENTERS TRANSVERSELY
2. All concrete sidewalks shall have a broomed finish surface with scores at 5'-0" O.C.
3. Immediately after finishing the concrete, the Contractor shall apply an approved curing material. The Contractor will spray two (2) coats at a combined coverage of 250 square feet per gallon, or roll one (1) coat at the rate of 250 square feet per gallon and in a manner accordance with the manufacturer's recommendations.
4. The base course shall consist of compacted 3/4" crushed stone (NYSDOT ITEM No. 623.12)



VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

ASPHALT CONCRETE AND PORTLAND CONCRETE SIDEWALKS (PAGE 1 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5D_Aspalt and PCC Sidewalk.dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 12/30/2022
REV: 08/16/2023
SD-5D

NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE SIDEWALK SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501 – PORTLAND CEMENT CONCRETE – GENERAL, SECTION 608 – SIDEWALKS, DRIVEWAYS, BICYCLE PATHS AND VEGETATION CONTROL STRIPS, SECTION 623 – SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 – MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2023, AS AMENDED.
2. WELDED WIRE FABRIC REINFORCEMENT SHALL BE MADE OF W2.9 OR W3 WIRE AT 6 INCH CENTERS TRANSVERSELY CONVENTIONALLY FORMED CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS D IN ACCORDANCE WITH SECTION 501 "PORTLAND CEMENT CONCRETE--GENERAL." ALL CONCRETE SHALL CONTAIN A WATER-REDUCING ADMIXTURE MEETING THE REQUIREMENTS OF §711-08 IN SUCH A QUANTITY AS TO PROVIDE A MINIMUM 10% REDUCTION OF THE DESIGN WATER CONTENT BY USING A NORMAL RANGE WATER-REDUCER. WWF SHALL BE MANUFACTURED IN SHEETS AND PLACED WITH IN CONCRETE BY CHAIRING.
3. REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS.
4. INSTALL A PREMOULDED RESILIENT JOINT FILLER, §705-07, AT ALL JOINTS BETWEEN SIDEWALK AND CURB, PAVEMENT, BUILDING, ETC. THE PREMOULDED RESILIENT JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF ASTM D1751.
5. THE EXPANSION JOINTS SHALL BE LOCATED AT ALL IMMOVABLE OBJECTS (BRIDGE SUBSTRUCTURES, ETC.), WHERE SHOWN ON THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER. EXPANSION JOINTS SHALL BE REQUIRED AT 20 FOOT INTERVALS.
6. PREMOULDED RESILIENT JOINT FILLER (§705-07). USE 3/8 – 5/8 INCH THICK FILLER IN TRANSVERSE EXPANSION JOINT ASSEMBLIES ONLY. INCLUDE A ONE-PIECE PREMOULDED RESILIENT JOINT FILLER IN THE ASSEMBLY THAT EXTENDS COMPLETELY ACROSS THE SLAB WIDTH. THE JOINT FILLER MUST EITHER EQUAL THE FULL DEPTH OF THE SLAB, OR EXTEND FROM THE BOTTOM OF THE SLAB TO WITHIN 1 1/2 – 2 INCHES OF THE TOP OF THE SLAB WITH A FINISHING CAP THAT EXTENDS TO THE TOP OF THE SLAB.
7. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONCRETE SURFACE SHALL BE SCORED AND TOOLED AT INTERVALS OF 5 FEET. SCORE THE CONCRETE A MINIMUM 1/8 INCH TO A MAXIMUM 1/4 INCH IN WIDTH AND TO A MINIMUM DEPTH OF ONE-THIRD THE TOTAL THICKNESS.
8. 3 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EVERY 4 FEET. 4 AND 5 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE SIDEWALK. SIDEWALKS MAY BE CONVENTIONALLY FORMED OR MACHINE FORMED.
9. ONLY MAGNESIUM FLOATS AND TROWELS ARE ALLOWED. THE USE OF ALUMINUM OR STEEL FINISHING TROWELS AND TOOLS IS PROHIBITED. THE CONCRETE SHALL BE FINISHED TO PRODUCE A SMOOTH SURFACE AND THEN LIGHTLY BROOMED TO A UNIFORM TEXTURE. THE EDGES AND SCORED JOINTS OF ALL SIDEWALK SLABS SHALL BE TOOLED WITH AN EDGING TOOL HAVING A 1/4 INCH RADIUS.
10. ALL WORK SHALL BE IN ACCORDANCE WITH NYSDOT SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES AND GRADES SHOWN ON THE PLANS OR ESTABLISHED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
11. SIDEWALK SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 608.0101. CRUSHED STONE SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 623.12.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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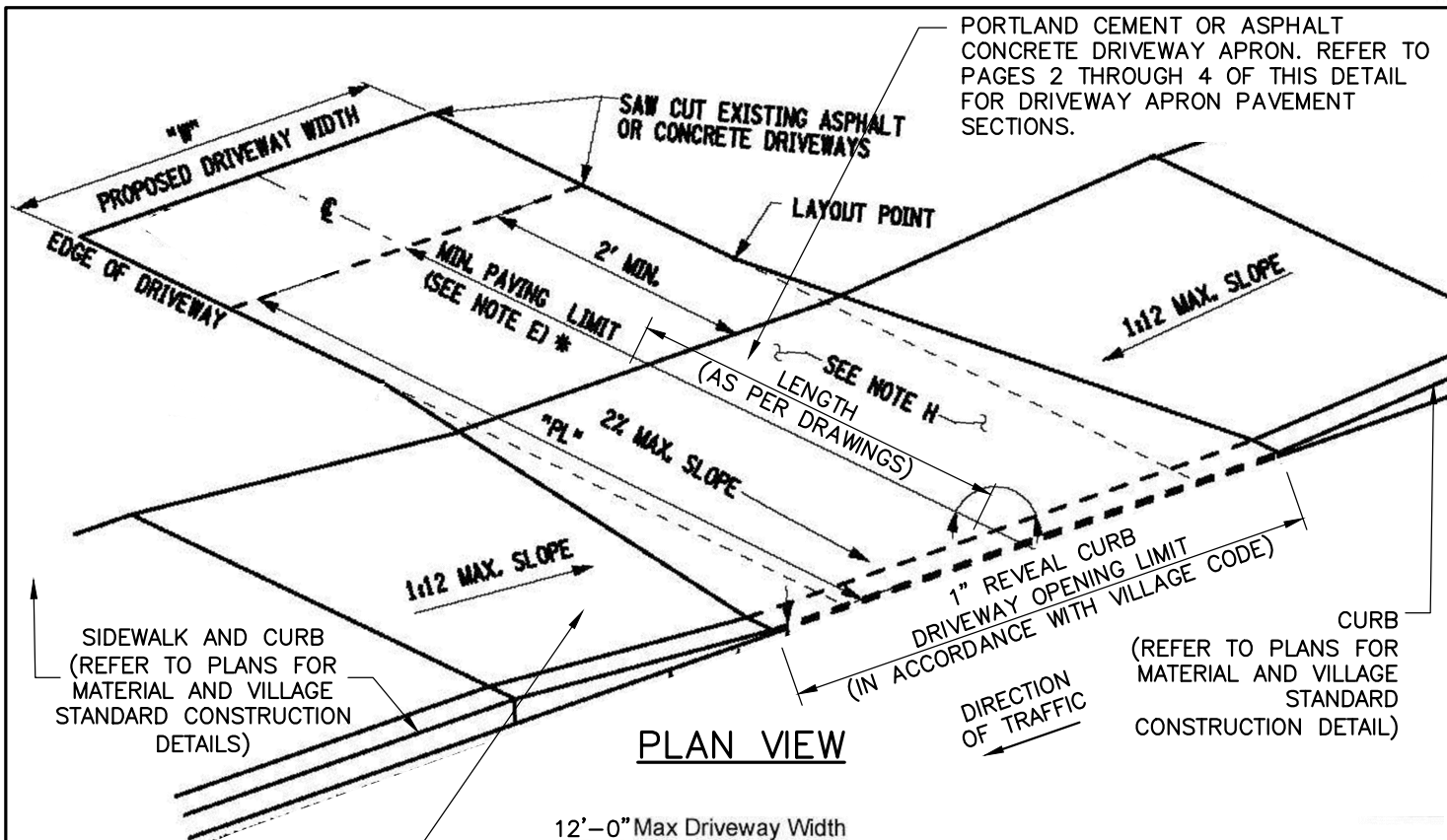
**ASPHALT CONCRETE AND
PORTLAND CONCRETE SIDEWALKS
(PAGE 2 OF 2)**

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5D_Aspphalt and PCC Sidewalk.dwg

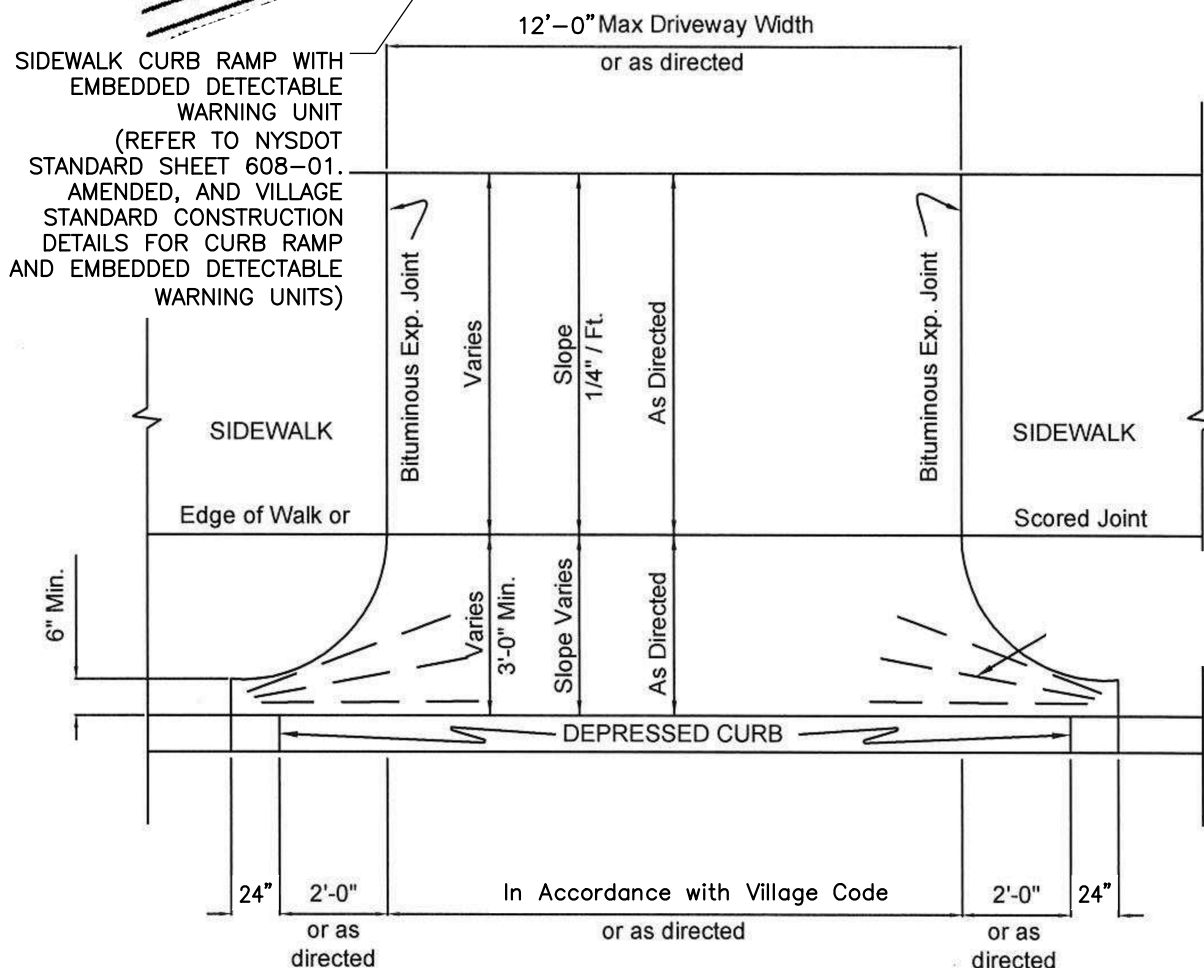


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WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 11/27/2022
REV: 08/16/2023
SD-5D



PLAN VIEW



TYPICAL SECTION

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

ASPHALT CONCRETE AND PORTLAND CONCRETE DRIVEWAYS (PAGE 1 OF 4)

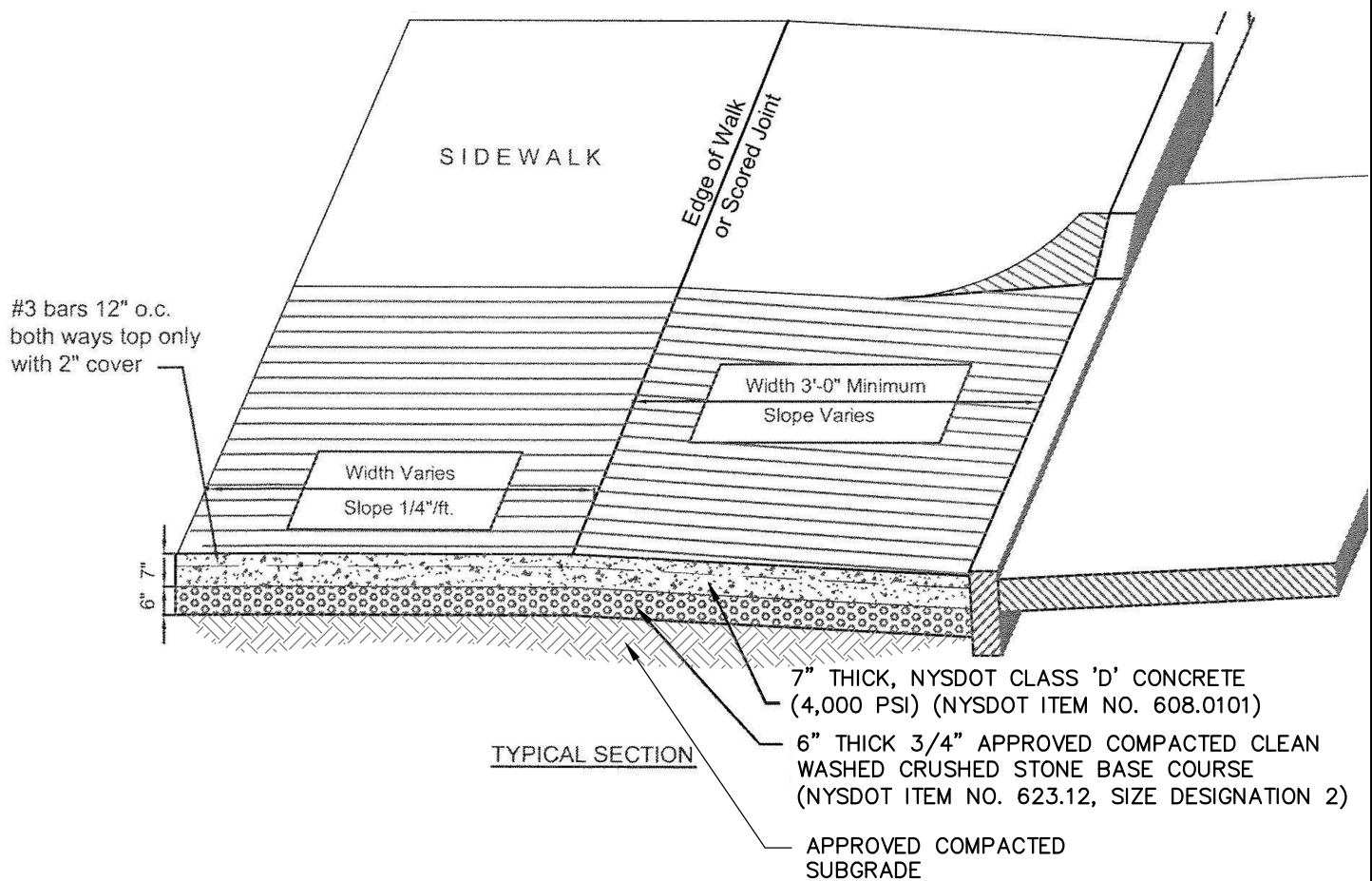
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5E_Aspalt and PCC Driveway.dwg



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SD-5E



REINFORCED CONCRETE DRIVEWAY

TYPICAL SECTION

NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE DRIVEWAY SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501 - PORTLAND CEMENT CONCRETE - GENERAL, SECTION 608 - SIDEWALKS, DRIVEWAYS, BICYCLE PATHS AND VEGETATION CONTROL STRIPS, SECTION 623 - SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 - MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2023, AS AMENDED.
2. PLEASE REFER TO VILLAGE STANDARD CONSTRUCTION DETAIL SD-5D "ASPHALT AND PCC SIDEWALK" NOTES 2 THROUGH 11 FOR ADDITIONAL INFORMATION.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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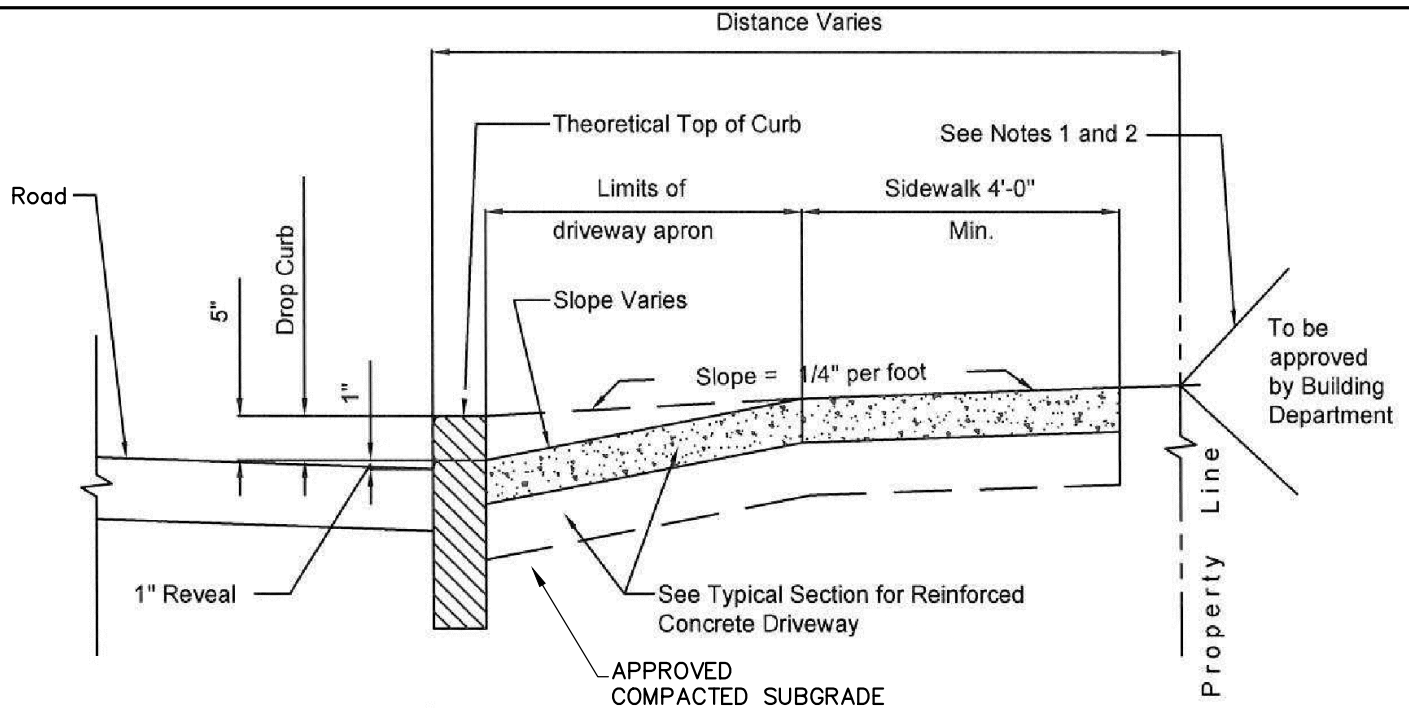
ASPHALT CONCRETE AND PORTLAND CONCRETE DRIVEWAYS (PAGE 2 OF 4)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5E Asphalt and PCC Driveway.dwg

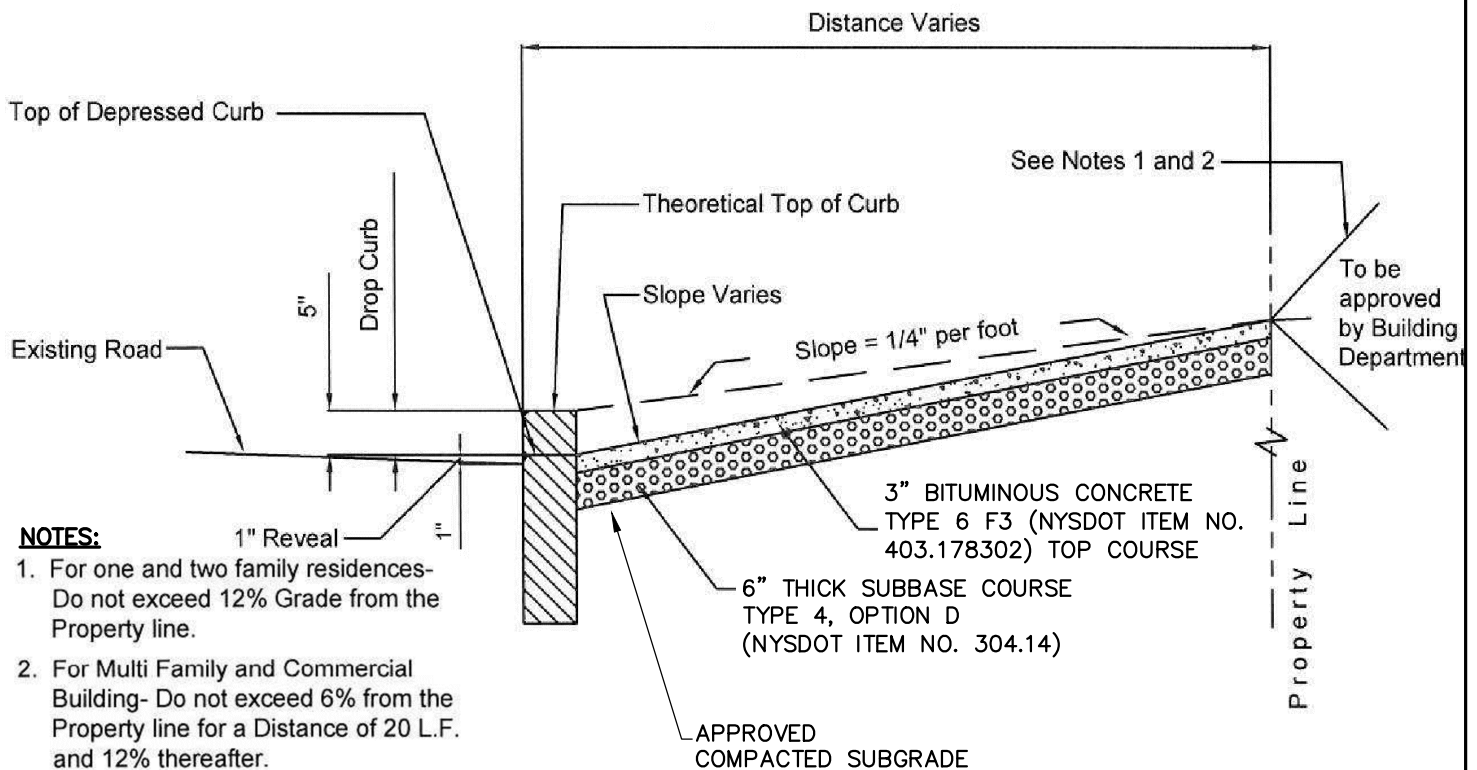


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REV: 11/27/2022
REV: 08/16/2023
SD-5E



SECTION AT ASPHALTIC CONCRETE DRIVEWAY WITH CONCRETE SIDEWALK



NOTES:

1. For one and two family residences- Do not exceed 12% Grade from the Property line.
2. For Multi Family and Commercial Building- Do not exceed 6% from the Property line for a Distance of 20 L.F. and 12% thereafter.

SECTION AT ASPHALTIC CONCRETE DRIVEWAY WITH NO SIDEWALK

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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AND VILLAGE ENGINEER

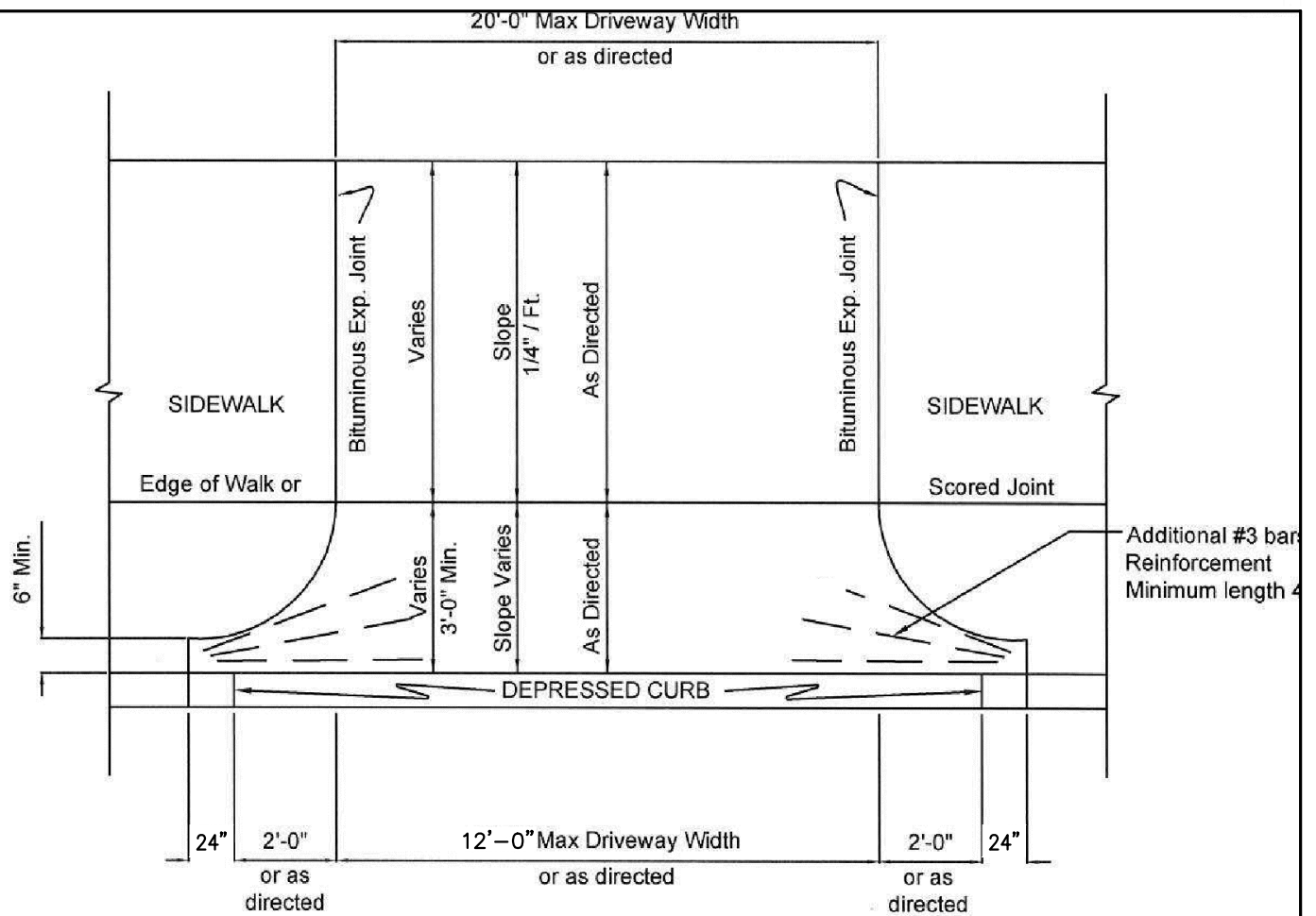
ASPHALT CONCRETE AND PORTLAND CONCRETE DRIVEWAYS (PAGE 3 OF 4)

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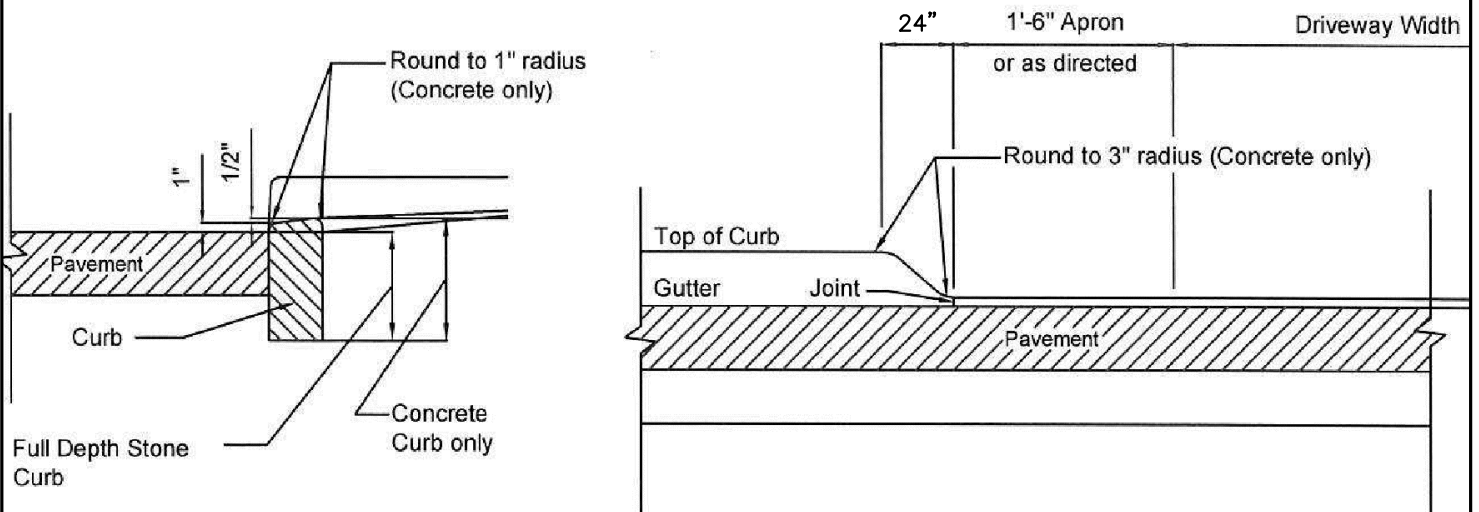


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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 03/02/2023
REV: 08/16/2023
SD-5E



PLAN VIEW - RESIDENTIAL DRIVEWAY



SECTION - DEPRESSED CURB

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

**ASPHALT CONCRETE AND
PORTLAND CONCRETE DRIVEWAYS
(PAGE 4 OF 4)**

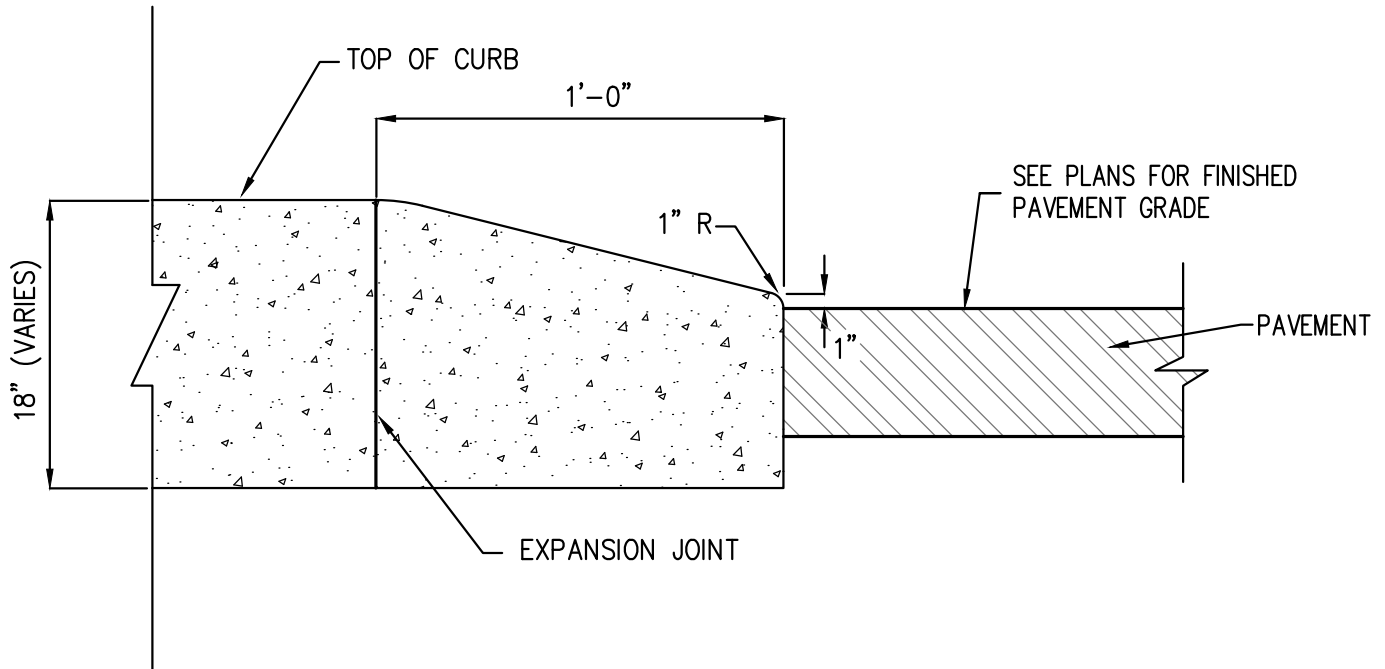
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5E_Aspalt and PCC Driveway.dwg



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PROJECT: DETAILS
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DATE: 10/25/2022
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SD-5E



NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE CURB SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501 – PORTLAND CEMENT CONCRETE – GENERAL, SECTION 609 – CURB AND CURB & GUTTER, SECTION 623 – SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 – MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022, AS AMENDED.
2. CONSTRUCTION JOINT SHALL BE INSTALLED AT THE MID-POINT BETWEEN EXPANSION JOINT SO CURB SEGMENT LENGTH WILL BE TEN (10) FEET).
3. PREMOULDED BITUMINOUS EXPANSION JOINT SHALL BE INSTALLED BETWEEN CURB SEGMENT TO SCALE EVERY TWENTY (20) FEET.
4. MATCH EXPANSION JOINT IF CURB IS INSTALLED ADJACENT TO SIDEWALK OR CONCRETE PAVEMENT.
5. CURB SEGMENT LENGTH MAY DIFFERENTIATE AT CLOSURE POINT, BUT SHALL NOT BE LESS THAN FOUR (4) FEET.
6. CURB SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 609.10010109.
7. CAST-IN-PLACE CONCRETE CURB SHALL BE USED IN AREAS AS DIRECTED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER WHERE MONOLITHIC CURB AND SIDEWALK CONSTRUCTION IS NOT REQUIRED AND/OR FEASIBLE (e.g. ADJACENT TO LAWN AREAS).
8. PLEASE REFER TO VILLAGE ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE SIDEWALKS STANDARD CONSTRUCTION DETAIL FOR ADDITIONAL INFORMATION.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

**CAST-IN-PLACE CONCRETE
CURB ENDING**

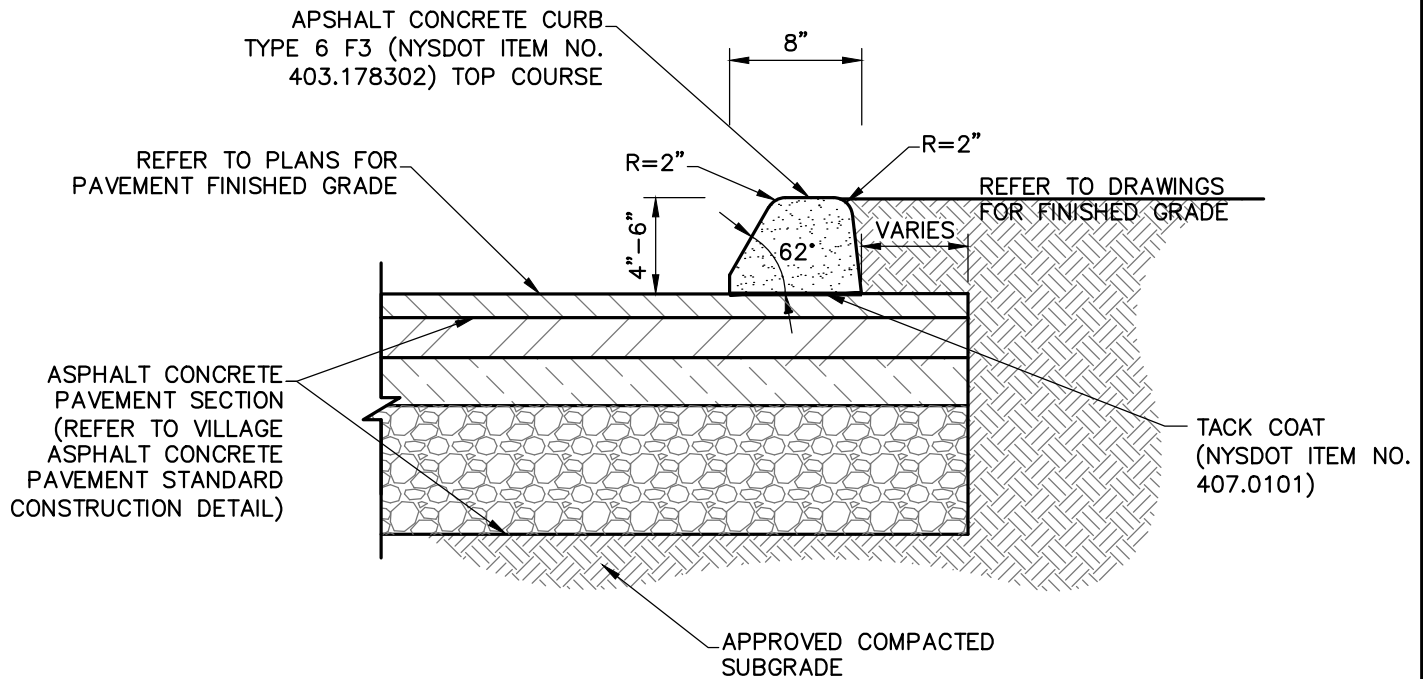
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5F_Concrete Curb Ending.dwg



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PROJECT: DETAILS
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DATE: 10/25/2022
REV: 11/27/2022

SD-5F



NOTES:

1. UNLESS OTHERWISE NOTED, ASPHALT CONCRETE SHALL CONFORM TO THE SPECIFICATIONS OUTLINED IN SECTION 403 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED MAY 1, 2008. NOTE, THIS SECTION IS NO LONGER INCLUDED IN THE NYSDOT STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL ALLOW ADEQUATE PAVEMENT WIDTH IN BACK OF CURB FOR INSTALLATION USING A CURB MACHINE.
3. ASPHALT CONCRETE CURB REVEAL SHALL BE A MINIMUM OF 4 INCHES AND A MAXIMUM OF 6 INCHES AS ORDERED BY ENGINEER (AOBE).
4. UPON REVIEW AND APPROVAL BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER, ASPHALT CONCRETE CURBS SHALL BE CONSTRUCTED ONLY IN AREAS WHERE THE INSTALLATION OF PORTLAND CEMENT CONCRETE AND/OR OTHER CURB TYPES ARE NOT FEASIBLE.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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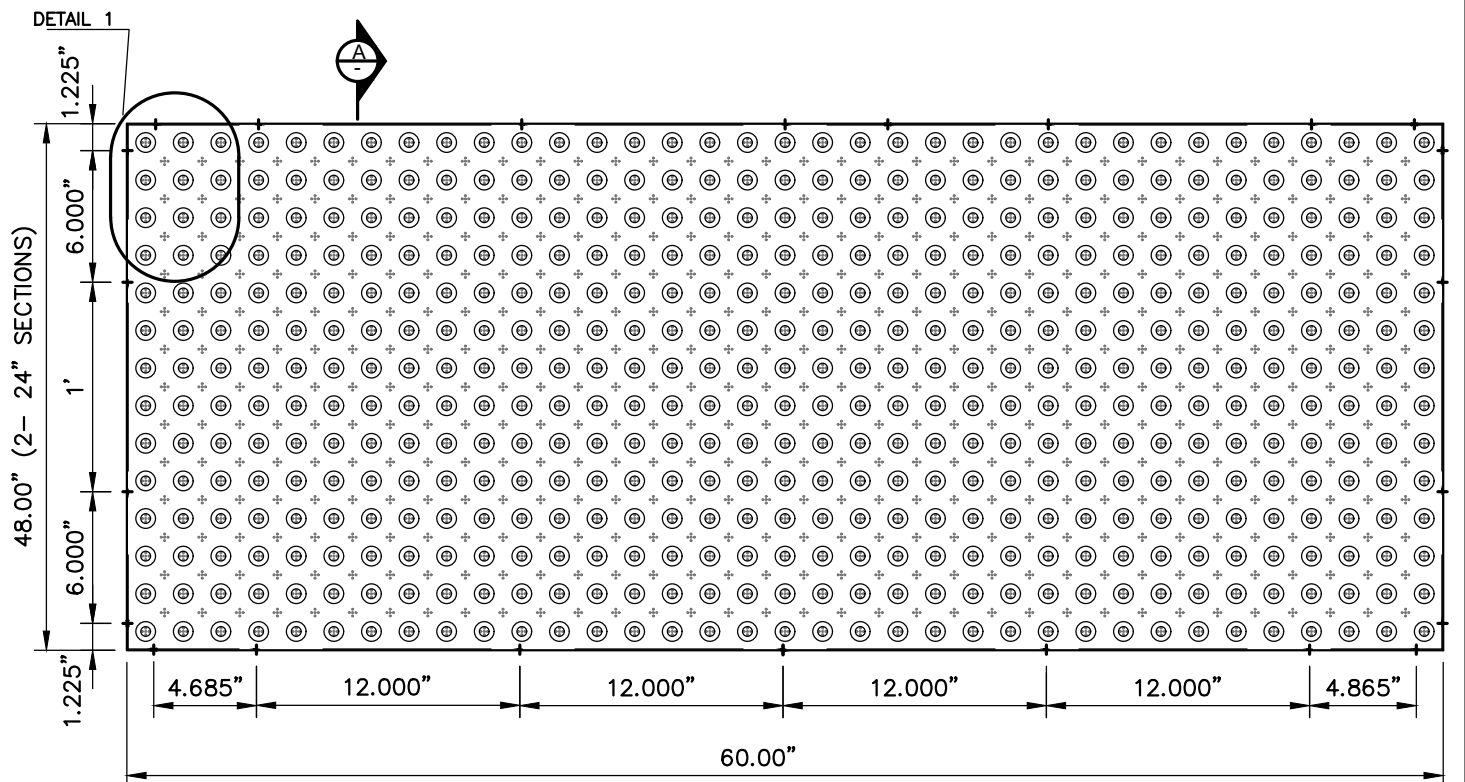
ASPHALT CONCRETE CURB

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5G Asphalt Concrete Curb.dwg

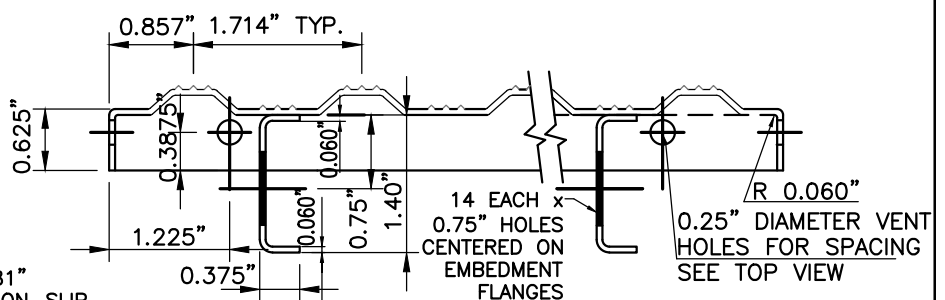
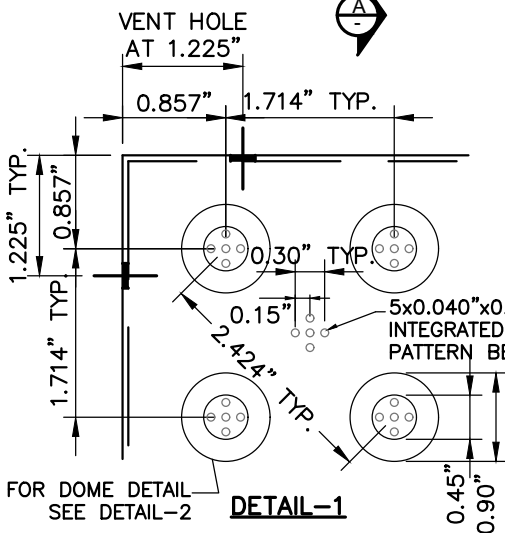


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REV: 04/04/2024
SD-5G



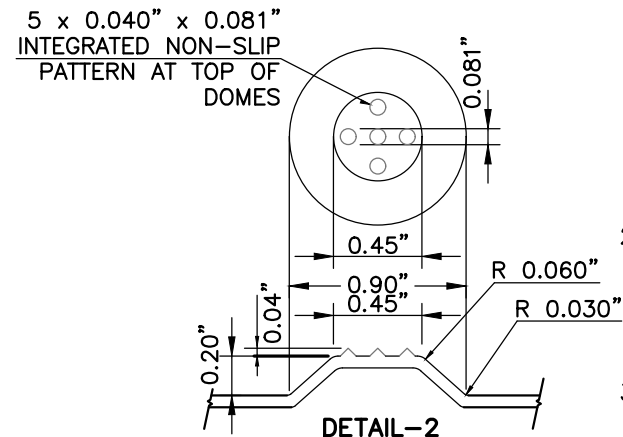
PLAN VIEW



DETAIL SECTION A-A

NOTES:

1. DETECTABLE WARNINGS SHALL BE INSTALLED ON ALL CURB RAMPS. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES (23 mm), A HEIGHT OF NOMINAL 0.2 INCHES (5 mm), AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 mm) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF JUSTICE 28 CFH PART 36 "EXCERPT FROM 28 CFR PART 36: ADA STANDARDS FOR ACCESSIBLE DESIGN" LAST REVISED JULY 1, 1994.
2. DETECTABLE WARNING SYSTEM SHALL BE CAST-IN-PLACE TRUNCATED DOMES PART NUMBER ATS-C-2x5 MANUFACTURED BY ADVANTAGE™ TACTILE SYSTEMS OR APPROVED EQUAL. THE COLOR OF THE DETECTABLE WARNING SYSTEM SHALL BE "BRICK RED" (FEDERAL COLOR NO. 22144).
3. DETECTABLE WARNING UNITS SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 608.21.



VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

**EMBEDDED DETECTABLE
WARNING UNITS**

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5H_Embedded Dectable



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SD-5H

GENERAL NOTES:

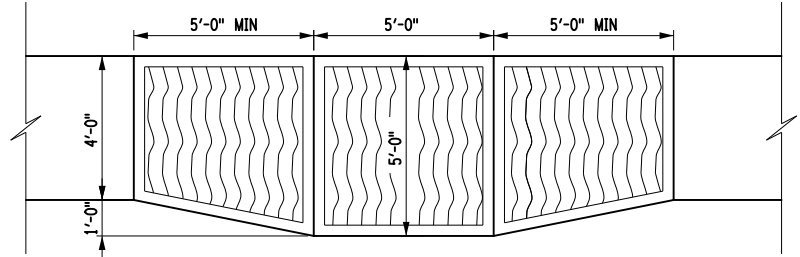
- THESE SHEETS ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE REQUIREMENTS OF THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY (PROWAG).
- DIMENSIONS SHOWN IN THE DETAILS AS MINIMUMS AND MAXIMUMS ARE THE LIMITS FOR DESIGN AND FIELD LAYOUT. FACILITIES SHALL NOT BE CONSTRUCTED WITH VALUES OUTSIDE THE LIMITS FOR WORK ACCEPTANCE. SEE TABLE "DESIGN ELEMENT TOLERANCES" ON THIS SHEET. FURTHER INFORMATION IS PROVIDED ON "CRITICAL ELEMENTS FOR THE DESIGN, LAYOUT, AND ACCEPTANCE OF PEDESTRIAN FACILITIES" AVAILABLE ON THE NYSDOT HIGHWAY DESIGN MANUAL CHAPTER 18 WEBSITE.
- NOT ALL FACILITIES CAN BE CONSTRUCTED TO MEET THE DESIGN STANDARDS. FACILITIES THAT CANNOT BE CONSTRUCTED TO MEET THE DESIGN STANDARDS SHALL BE CONSTRUCTED TO MEET THE STANDARDS TO THE GREATEST EXTENT PRACTICABLE. NONSTANDARD FEATURES SHALL BE JUSTIFIED PER HIGHWAY DESIGN MANUAL CHAPTER 2, EXHIBIT 2-15A.
- TO CHECK FIELD LAYOUT AND TO VERIFY WORK ACCEPTANCE, ALL SLOPES AND GRADES WILL BE MEASURED WITH A 4 FOOT LONG DIGITAL LEVEL USING AT LEAST TWO READINGS. WHERE THE READINGS VARY, THE MEASUREMENTS WILL BE AVERAGED. GRADE (RUNNING SLOPE) WILL BE MEASURED ALONG THE CENTERLINE AND OFFSET 12" TO 18" FROM THE CENTERLINE. CROSS SLOPES WILL BE MEASURED PERPENDICULAR TO CENTERLINE AT 5' TO 10' INTERVALS.
- GRADES (RUNNING SLOPES) ARE MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPES ARE MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- JOINTS BETWEEN SIDEWALKS, CURB RAMPS, TURNING SPACES AND ROADWAYS SHALL BE FLUSH AND FREE FROM ABRUPT VERTICAL CHANGES GREATER THAN 1/4". VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE JOINT. SEE DETAIL ON SHEET 2 OF 9.
- SIDEWALKS ARE CONNECTED TO ROADWAYS BY EITHER BLENDED TRANSITIONS OR CURB RAMPS. BLENDED TRANSITIONS ARE CONNECTIONS BETWEEN THE SIDEWALK LEVEL AND THE ROADWAY LEVEL THAT HAVE A MAXIMUM GRADE (RUNNING SLOPE) OF 5%, AND TRANSITIONS GREATER THAN 5% ARE CONSIDERED CURB RAMPS.
- CURB RAMPS AND BLENDED TRANSITIONS MAY REQUIRE THE INSTALLATION OF DETECTABLE WARNINGS. SEE ADDITIONAL "DETECTABLE WARNING NOTES" ON THIS SHEET, AND DETAILS ON SHEET 2 OF 9 FOR DIMENSIONS, ORIENTATION AND INSTALLATION.
- VERTICAL ALIGNMENT SHALL BE GENERALLY PLANAR. GRADE BREAKS WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND SHALL NOT BE ROUNDED.
- MATERIAL DEPTHS SHOWN ON THESE SHEETS ARE TYPICAL MINIMUM VALUES AND MAY BE DIFFERENT IN THE CONTRACT DOCUMENTS.
- SIDEWALK GRADE (RUNNING SLOPE) SHALL NOT BE DESIGNED TO EXCEED 4.5%, EXCEPT WHEN MATCHING INTO EXISTING SIDEWALK OR WHEN THE HIGHWAY GRADE IS STEEPER. WHEN HIGHWAY GRADE IS GREATER THAN 5%, THE SIDEWALK GRADE SHALL NOT EXCEED THE HIGHWAY GRADE.
- THE CROSS SLOPE OF PEDESTRIAN ACCESS ROUTES SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE. THE FOLLOWING EXCEPTIONS ARE ALLOWED:
 - WHERE PEDESTRIAN STREET CROSSINGS ARE PROVIDED AT INTERSECTIONS WITHOUT YIELD OR STOP CONTROL OR WHERE THERE IS ANY TRAFFIC SIGNAL WITHOUT A FLASHING RED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A STREET CROSSING SHALL BE 4.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 5% MAXIMUM FOR WORK ACCEPTANCE.
 - WHERE MIDBLOCK PEDESTRIAN STREET CROSSINGS ARE PROVIDED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A MIDBLOCK STREET CROSSING SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.
- THE MINIMUM CLEAR WIDTH FOR PEDESTRIAN ACCESS ROUTES IS 4'-0", EXCLUSIVE OF THE CURB. WHEN WALKWAY WIDTHS ARE LESS THAN 5'-0", 5'-0" x 5'-0" PASSING SPACES (SHOWN IN DETAIL A OR B), OR A FEATURE OF EQUAL OR GREATER DIMENSIONS (E.G., DRIVEWAYS) THAT MEET THE SLOPE CRITERIA, SHALL BE PROVIDED AT A MAXIMUM INTERVAL OF 200'. EXISTING DRIVEWAYS AND STREET CROSSING MAY ALSO SERVE AS PASSING SPACES.
- THE BUFFER ZONE IS A PHYSICAL DISTANCE SEPARATING THE PEDESTRIAN ACCESS ROUTE FROM THE VEHICLE TRAVELED WAY. THE BUFFER ZONE MAY BE PLANTED OR PAVED. WHERE THE BUFFER ZONE WIDTH, EXCLUSIVE OF CURB, IS LESS THAN 3'-0" THE SURFACE SHOULD BE PAVED OR CONSTRUCTED WITH HARDSCAPE MATERIALS.
- THE MAXIMUM RECOMMENDED CROSS SLOPE OF A TURF BUFFER ZONE OR SLOPE TRANSITION BEHIND SIDEWALK IS 25%. BUFFER ZONES WITH A CROSS SLOPE GREATER THAN 25% SHOULD BE PAVED, PLANTED OR CONSTRUCTED WITH HARDSCAPE MATERIALS.
- WHEN CROSSING DRIVEWAYS, THE WORK SHALL BE IN CONFORMANCE WITH STANDARD SHEET 608-03.
- FOR PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS, REFER TO STANDARD SHEET 680-10 FOR DETAILS.
- WHERE EXISTING ROADWAYS ARE SAWCUT TO INSTALL CURBING AND/OR SIDEWALK, THE ROADWAY SHOULD BE SAWCUT AT LEAST 2'-0" FROM THE PROPOSED CURB LINE TO ALLOW FOR ADEQUATE COMPACTION OF ASPHALT. IF SAWCUT IS LESS THAN 2'-0" FROM PROPOSED CURB LINE, THEN THE ROADWAY SHALL BE REBUILT USING CLASS C CONCRETE. SEE DETAILS ON SHEET 9 OF 9.

CURB RAMP NOTES:

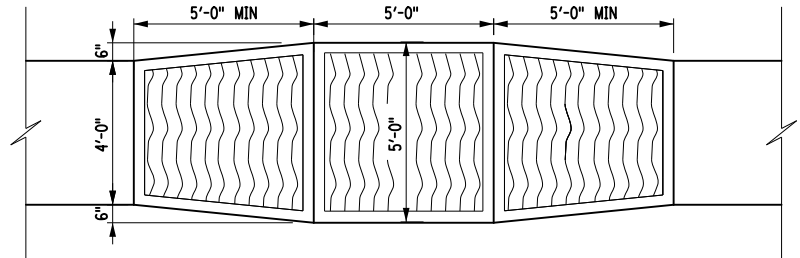
- THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 4'-0".
 - THE GRADE (RUNNING SLOPE) OF A CURB RAMP SHALL BE A MINIMUM OF 5%. THE GRADE FOR DESIGN AND LAYOUT SHALL BE A MAXIMUM OF 7.5%. THE GRADE FOR ADA ACCESSIBILITY AND WORK ACCEPTANCE SHALL BE A MAXIMUM OF 8.3%.
 - WHERE EXISTING CONDITIONS DO NOT ALLOW THE CONSTRUCTION OF A CURB RAMP WITH A GRADE (RUNNING SLOPE) OF 8.3% OR LESS, THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15'-1" FOR DESIGN AND FIELD LAYOUT. THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15'-0" FOR WORK ACCEPTANCE.
 - THE CROSS SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE AND STILL PROVIDE POSITIVE DRAINAGE. THE CROSS SLOPE OF A CURB RAMP SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE. SEE NOTE 12 FOR EXCEPTIONS. WHERE THE EXISTING ROADWAY GRADE EXCEEDS 2%, THE CURB RAMP MAY BE WARPED ACCORDING TO THE DETAIL ON SHEET 8 OF 9 TO TIE INTO THE DROP CURB.
 - RAMP SIDE OPTIONS ARE DETAILED ON SHEET 3 OF 9 FOR USE WITHIN THE BUFFER ZONE. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE INSTALLED WITH A MAXIMUM SLOPE OF 9.5% FOR DESIGN AND LAYOUT, AND 10% MAXIMUM FOR WORK ACCEPTANCE. THE SLOPE OF FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE.
 - THE BACKSIDE OF A PARALLEL RAMP SHOULD BE GRADED TO A MAXIMUM SLOPE OF 25% TO MATCH EXISTING TERRAIN, UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS. WHERE GRADING IS NOT FEASIBLE DUE TO LIMITED ROW OR PHYSICAL CONSTRAINTS, A BACK CURB MAY BE INSTALLED. SEE DETAILS ON SHEET 3 OF 9 AND SHEET 9 OF 9.
 - DEPARTMENT PREFERENCE IS TO INSTALL TWO CURB RAMPS AT A STREET CORNER THAT SERVES BOTH CROSSINGS. WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT TWO CURB RAMPS FROM BEING INSTALLED AT A STREET CORNER THAT SERVES BOTH CROSSINGS, A SINGLE DIAGONAL CURB RAMP WILL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.
- TURNING SPACE AND CLEAR SPACE NOTES:
- WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE OR THE TOP OF CURB RAMP AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.
 - WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALK, (E.G., VERTICAL CURB, BUILDINGS, FENCES) THE TURNING SPACE DIMENSIONS SHALL BE 4'-0" x 4'-0" MINIMUM. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4'-0" x 5'-0" MINIMUM. THE 5'-0" DIMENSION SHALL BE PROVIDED PERPENDICULAR TO THE CONSTRAINT.
 - TURNING SPACES SHALL NOT BE DESIGNED WITH CROSS SLOPE GREATER THAN 1.5% IN ANY DIRECTION, WHILE PROVIDING POSITIVE DRAINAGE. THE MAXIMUM CROSS SLOPE FOR WORK ACCEPTANCE IS 2.0%. A NONSTANDARD FEATURE JUSTIFICATION IS REQUIRED WHERE TURNING SPACES EXCEED 2.0% IN ANY DIRECTION.
 - BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4'-0" x 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.

DETECTABLE WARNING NOTES:

- DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES:
 - CURB RAMPS AND BLENDED TRANSITIONS AT PEDESTRIAN STREET CROSSINGS.
 - PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6 FEET).
 - PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.
- DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE THE PEDESTRIAN ACCESS ROUTE CROSSES DRIVEWAYS WITH SIGNAL, YIELD OR STOP CONTROL. DETECTABLE WARNING SURFACES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAY APRONS.
- SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. IF REQUIRED, THE BORDER SHALL NOT EXCEED 2". WHERE THE BACK OF CURB EDGE IS TOOLED TO PROVIDE A RADIUS, THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGE OF THE CURB RADIUS.
- THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNIT IS FOR ILLUSTRATION ONLY. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES. THE WIDTH OF THE DETECTABLE WARNING FIELD INCLUDES A CONCRETE BORDER, IF PROVIDED.
- ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADially THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 2. ON SLOPES LESS THAN 5%, DOME ORIENTATION IS LESS CRITICAL AND MAY DIFFER FROM PERPENDICULAR OR RADIAL ALIGNMENT TO THE GRADE BREAK.
- THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.



DETAIL "A"
ACCESSIBLE PASSING SPACE TRANSITION
ONE SIDE TAPERS



DETAIL "B"
ACCESSIBLE PASSING SPACE TRANSITION
BOTH SIDES TAPER

DESIGN ELEMENT TOLERANCES

ELEMENT	DESIGN AND FIELD LAYOUT LIMIT	LIMIT FOR WORK ACCEPTANCE
SIDEWALK CROSS SLOPE - SEE NOTE 12	1.5% MAX.	2.0% MAX.
SIDEWALK GRADE (RUNNING SLOPE) - SEE NOTE 11	4.5% MAX.	5.0% MAX.
CURB RAMP GRADE (RUNNING SLOPE) - SEE NOTE 21	7.5% MAX.	8.3% MAX.
BLENDED TRANSITION GRADE (RUNNING SLOPE) - SEE NOTE 7	4.5% MAX.	5.0% MAX.

ALL VALUES SHOWN ON THE 608-01 STANDARD SHEETS REFER TO DESIGN AND FIELD LAYOUT LIMITS.

FOR ADDITIONAL REQUIREMENTS AND TOLERANCES, SEE "CRITICAL ELEMENTS FOR THE DESIGN, LAYOUT, AND CONSTRUCTION OF PEDESTRIAN FACILITIES" AVAILABLE ON THE NYSDOT HIGHWAY DESIGN MANUAL CHAPTER 18 WEBSITE.



Department of
Transportation

U.S. CUSTOMARY STANDARD SHEET

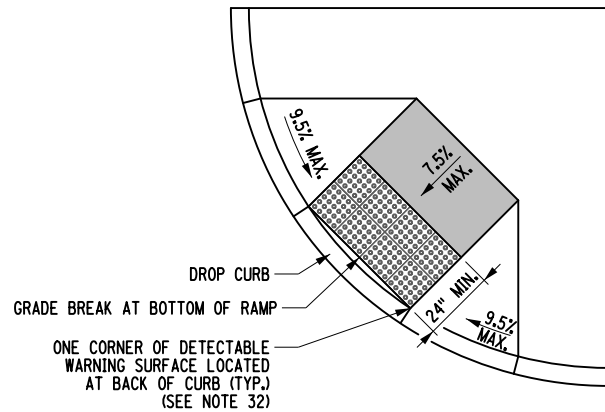
SIDEWALK AND CURB RAMP DETAILS
(SHEET 1 OF 9)

APPROVED MARCH 07, 2016

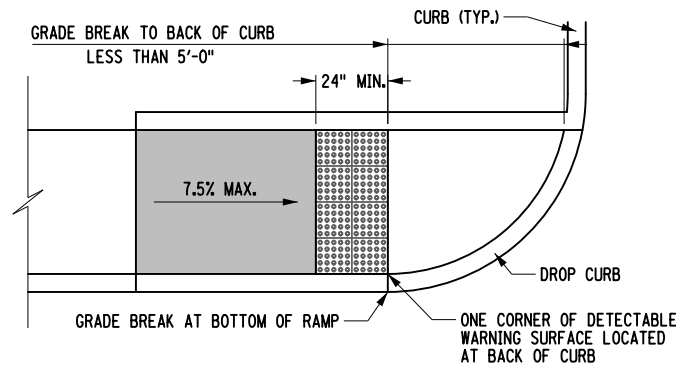
ISSUED UNDER EB 16-012

/S/ RICHARD W. LEE, P.E.
DEPUTY CHIEF ENGINEER
(DESIGN)

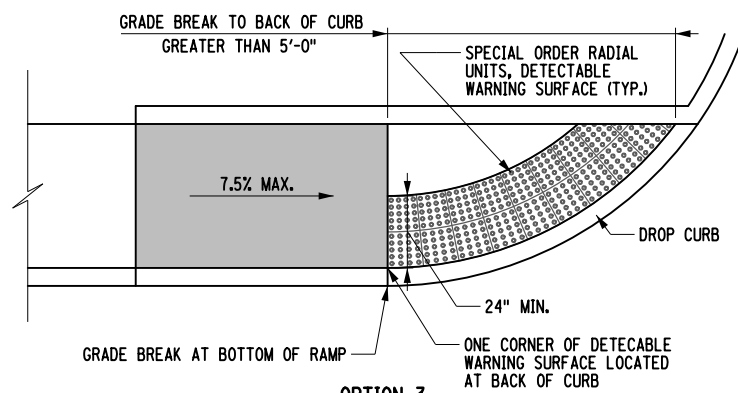
608-01



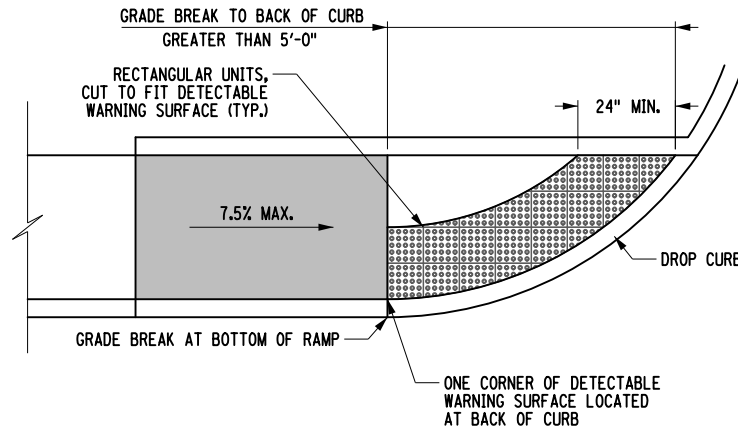
OPTION 1



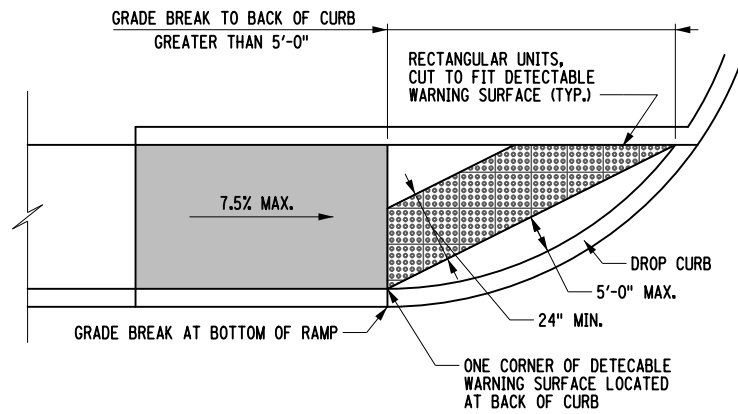
OPTION 2



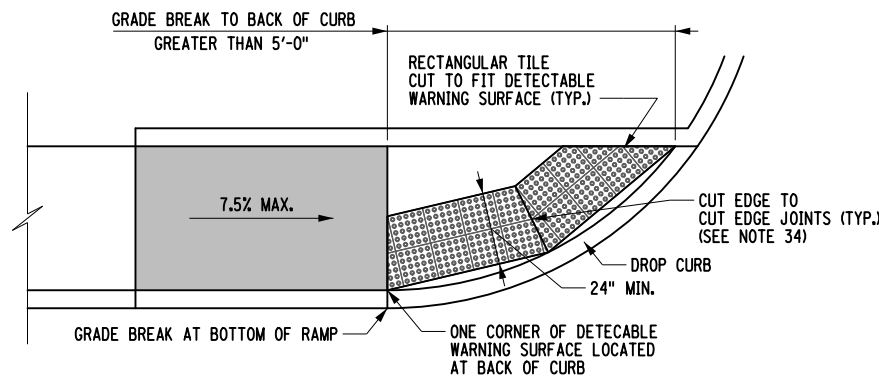
OPTION 3



OPTION 4

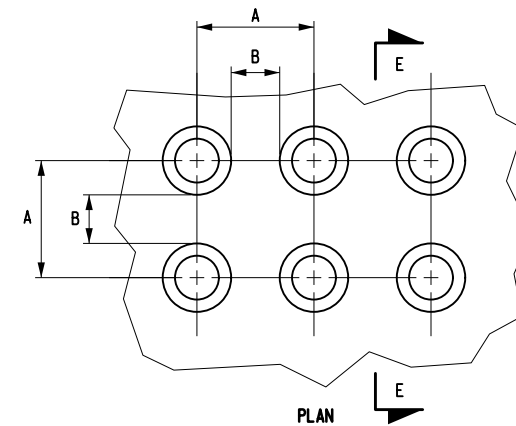


OPTION 5

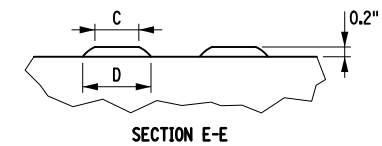


OPTION 6

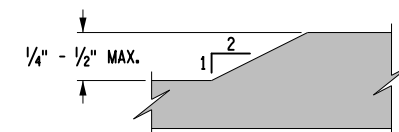
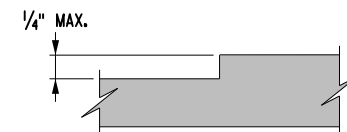
DETECTABLE WARNING SURFACE (DWS) PLACEMENT OPTION DETAILS



TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN)	MAX. (IN)
A	1.6"	2.4"
B	0.65"	1.5"
C	50% - 65% OF D DIM.	
D	0.9"	1.4"




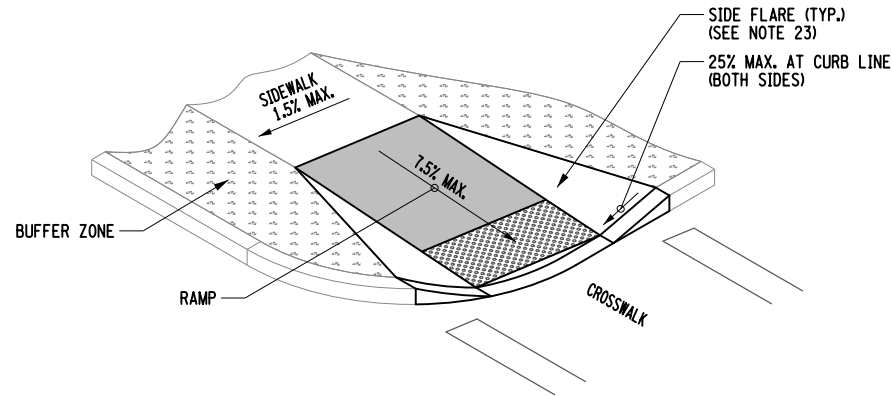
DETECTABLE WARNING SURFACE (DWS) TRUNCATED DOME DETAILS



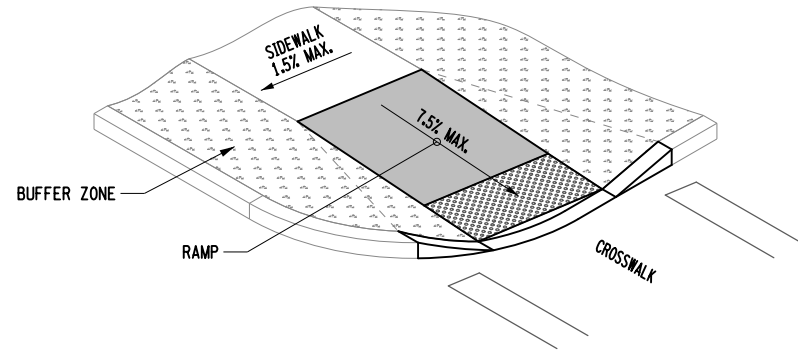
VERTICAL SURFACE DISCONTINUITIES
SEE NOTE 6 ON SHEET 1 OF 9

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON STANDARD SHEET 608-01, SHEET 1 OF 9.

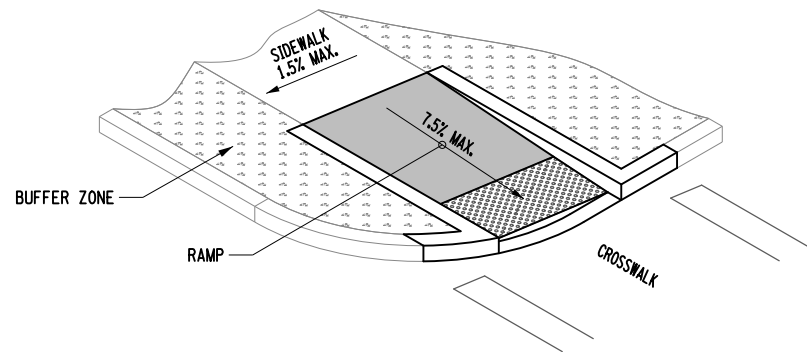
 NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
SIDEWALK AND CURB RAMP DETAILS (SHEET 2 OF 9)			
APPROVED MARCH 07, 2016 /S/ RICHARD W. LEE, P.E. DEPUTY CHIEF ENGINEER (DESIGN)		ISSUED UNDER EB 16-012 608-01	



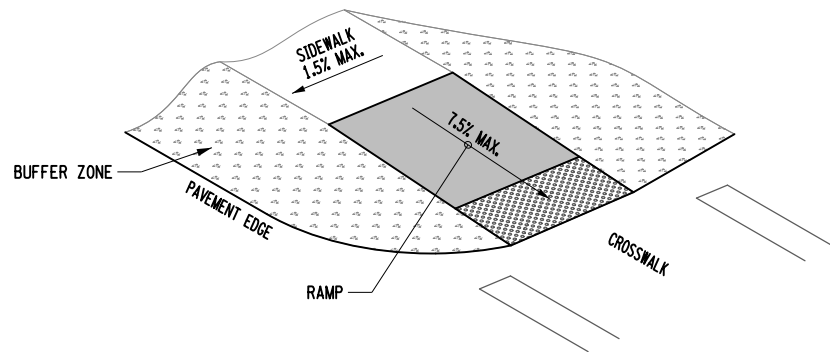
OPTION A: FLARED CONCRETE



OPTION B: GRADED EARTH

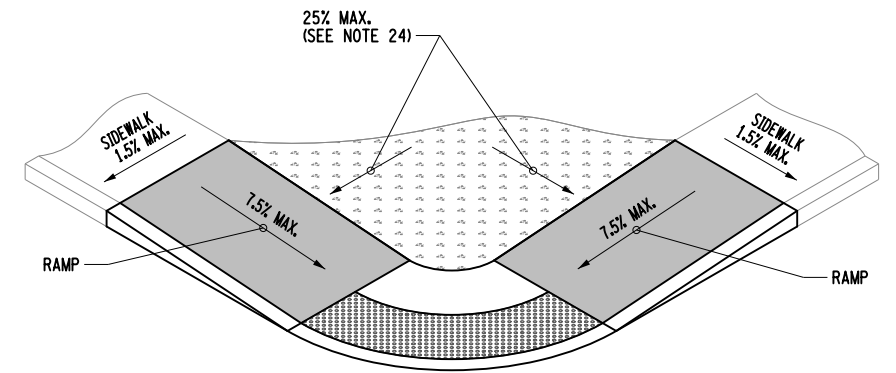


OPTION C: RETURN CURB

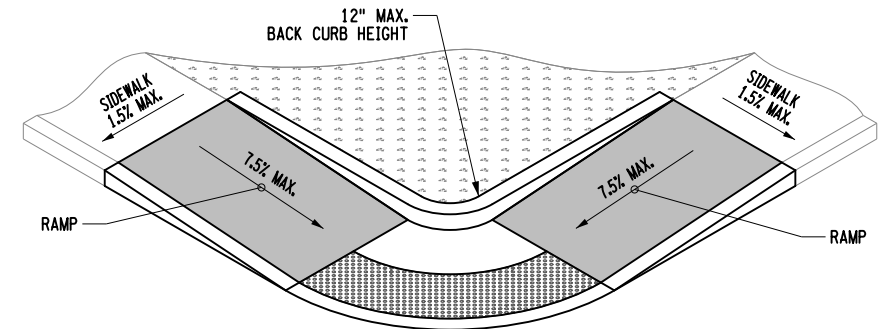


OPTION D: UNCURBED INTERSECTION

RAMP SIDE CONFIGURATIONS



OPTION A: GRADED EARTH AND TURF




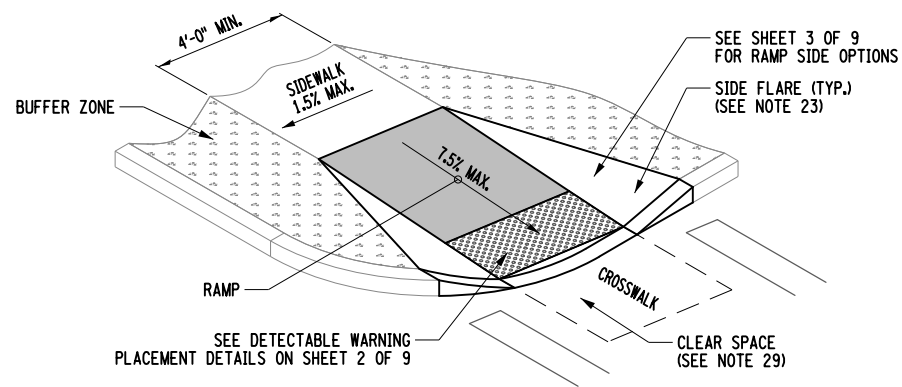
OPTION B: BACK CURB

PARALLEL RAMP BACK TREATMENTS

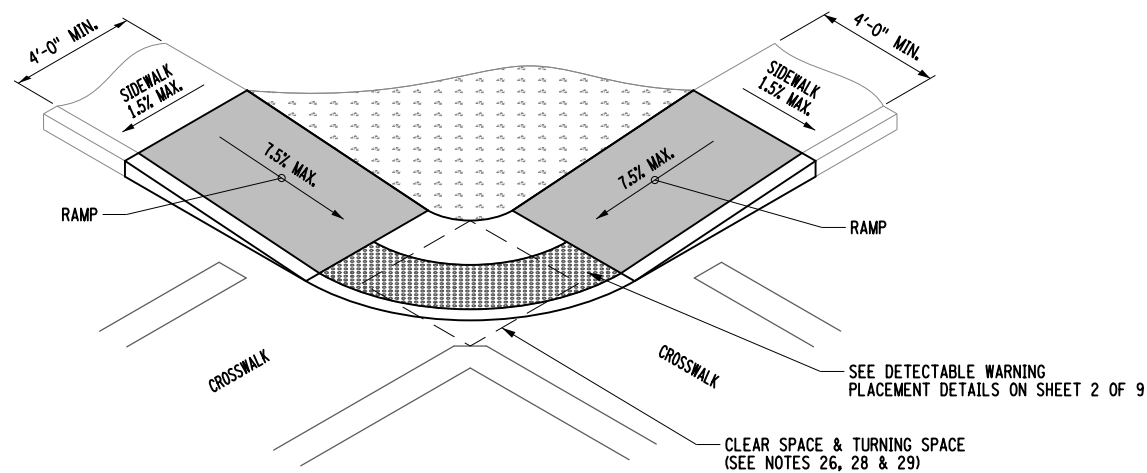
NOTE:

ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON STANDARD SHEET 608-01, SHEET 1 OF 9.

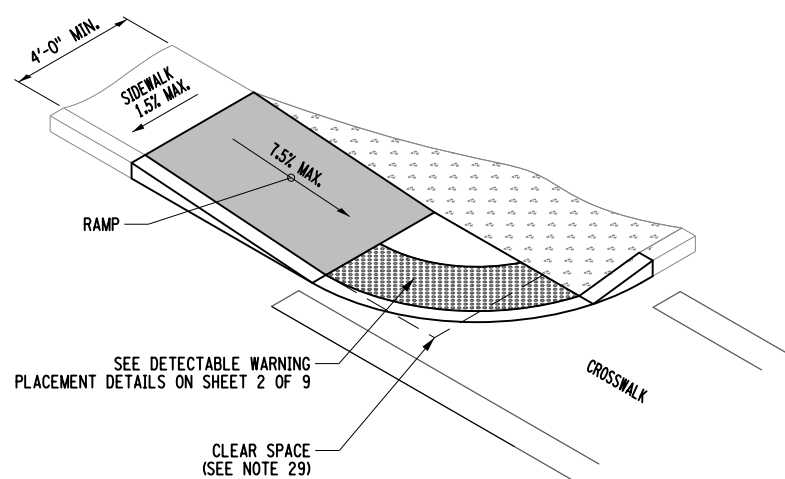
	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
SIDEWALK AND CURB RAMP DETAILS (SHEET 3 OF 9)	
APPROVED MARCH 07, 2016 /S/ RICHARD W. LEE, P.E. DEPUTY CHIEF ENGINEER (DESIGN)	ISSUED UNDER EB 16-012 608-01



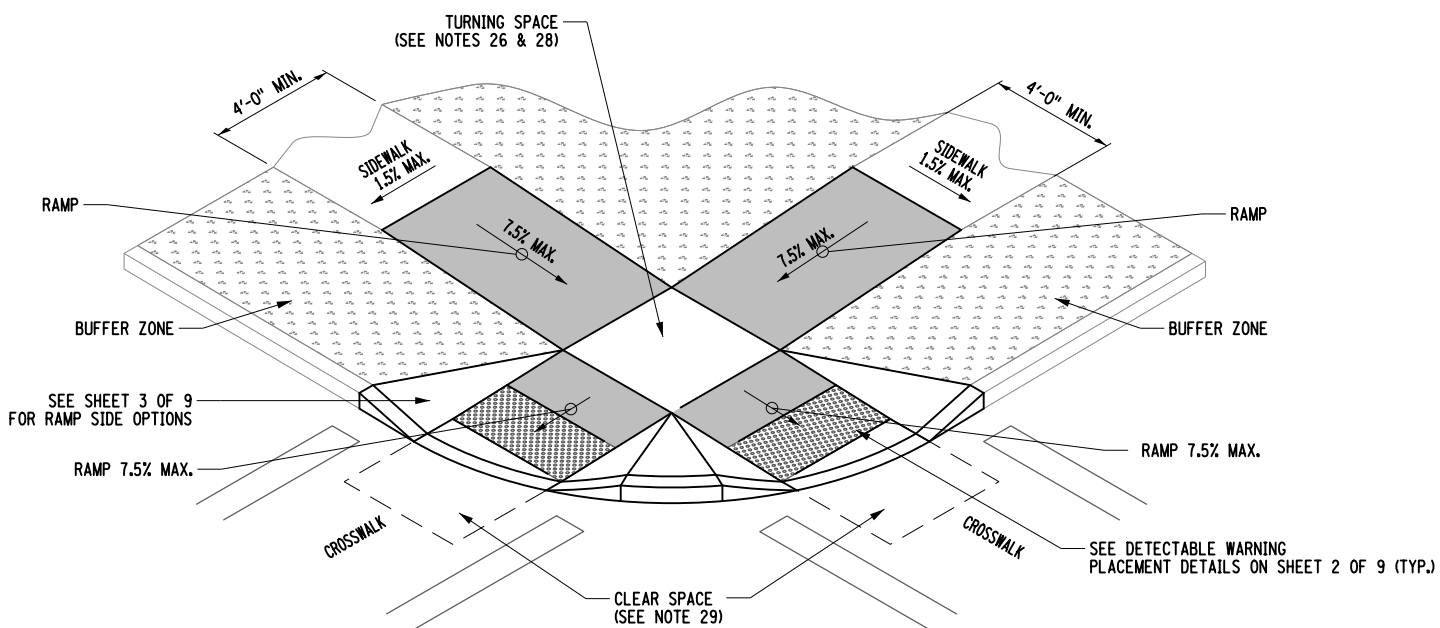
CURB RAMP CONFIGURATION: TYPE 1



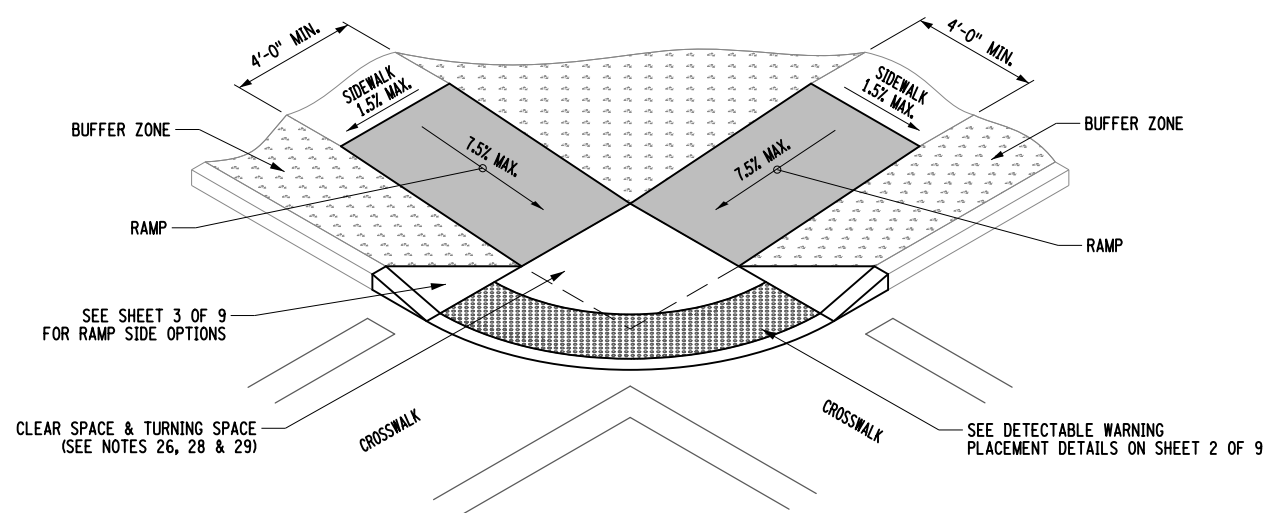
CURB RAMP CONFIGURATION: TYPE 4



CURB RAMP CONFIGURATION: TYPE 2



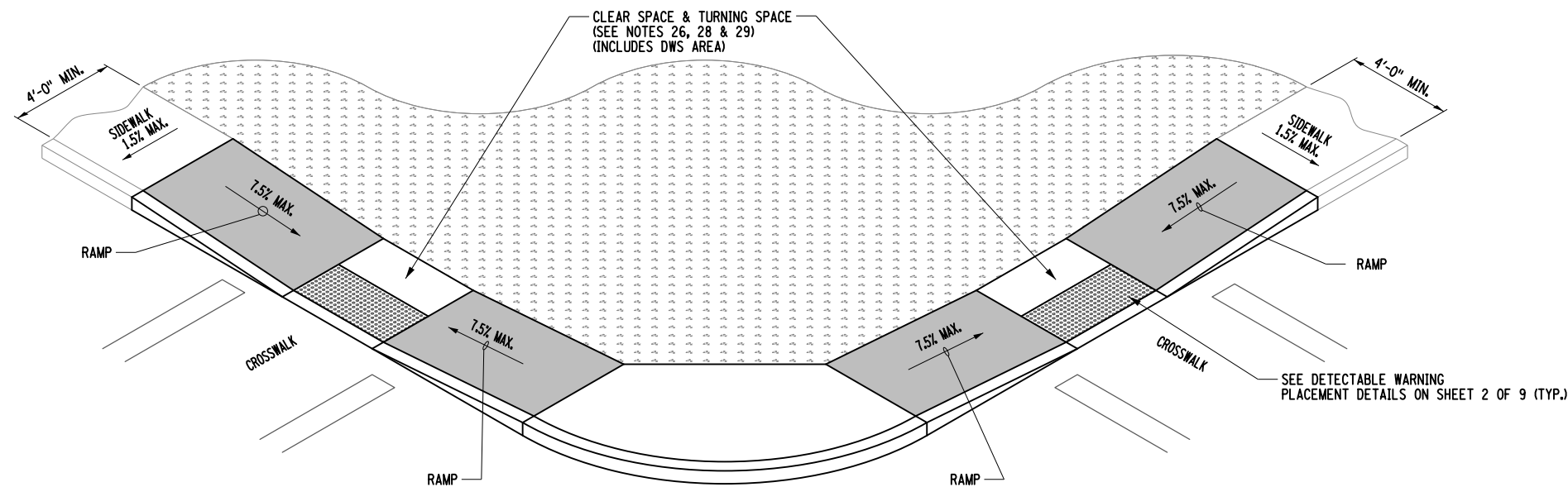
CURB RAMP CONFIGURATION: TYPE 5



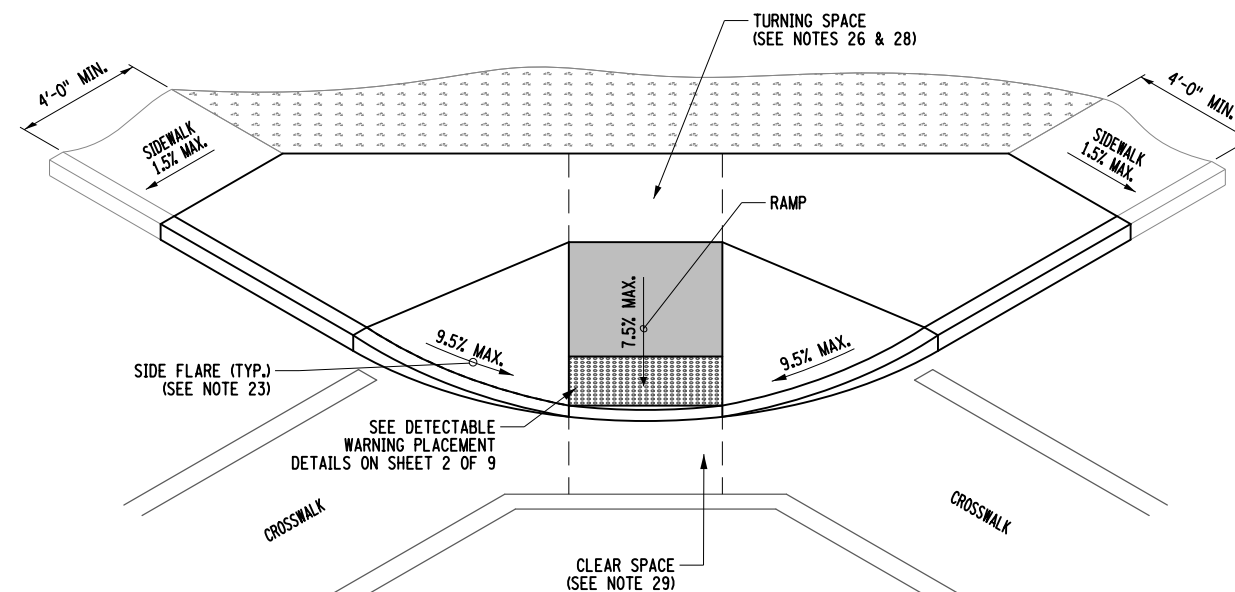
CURB RAMP CONFIGURATION: TYPE 3

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON STANDARD SHEET 608-01, SHEET 1 OF 9.

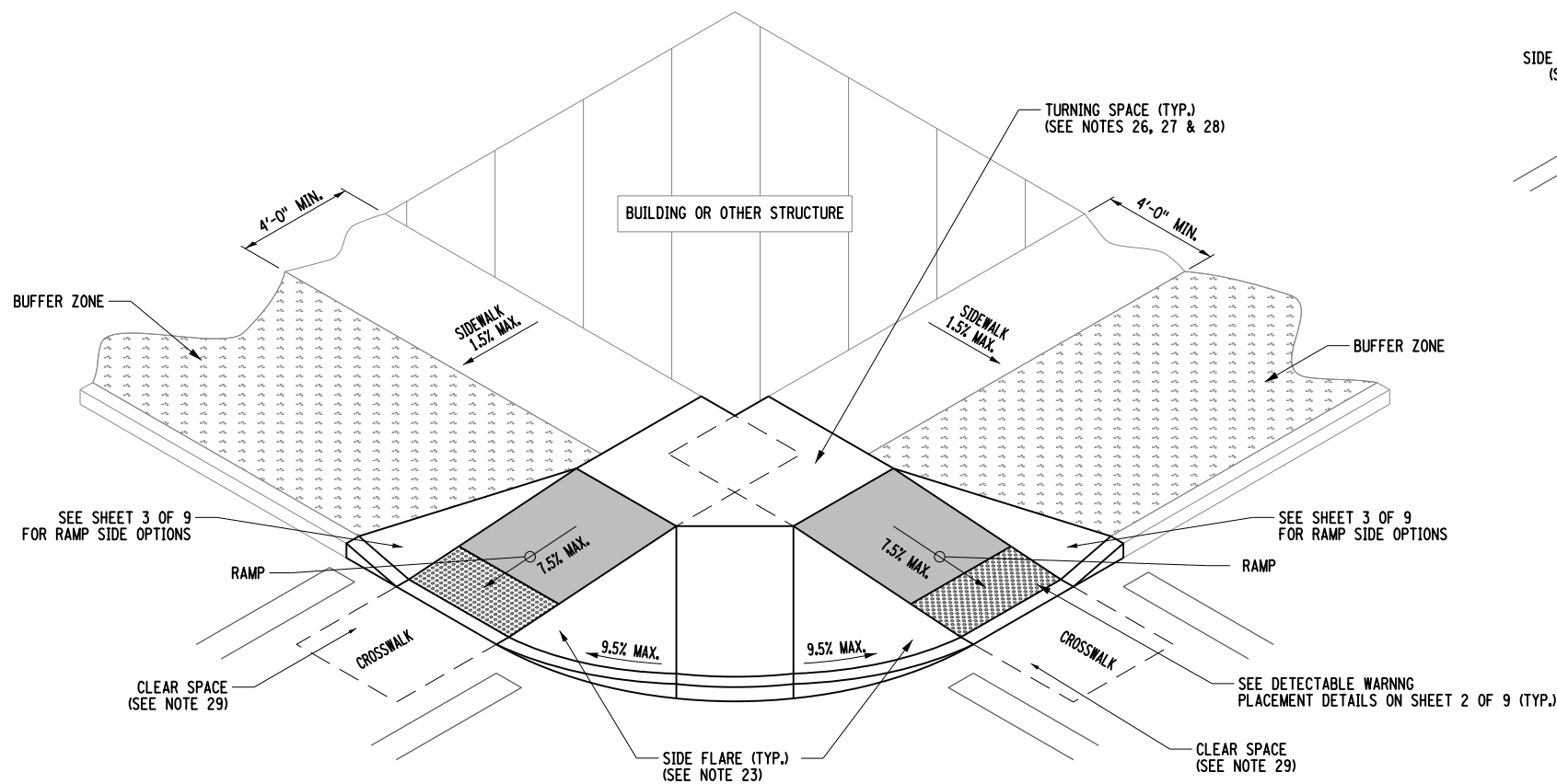
	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
SIDEWALK AND CURB RAMP DETAILS (SHEET 4 OF 9)	
APPROVED MARCH 07, 2016 /S/ RICHARD W. LEE, P.E. DEPUTY CHIEF ENGINEER (DESIGN)	ISSUED UNDER EB 16-012 608-01



CURB RAMP CONFIGURATION: TYPE 6



CURB RAMP CONFIGURATION: TYPE 8

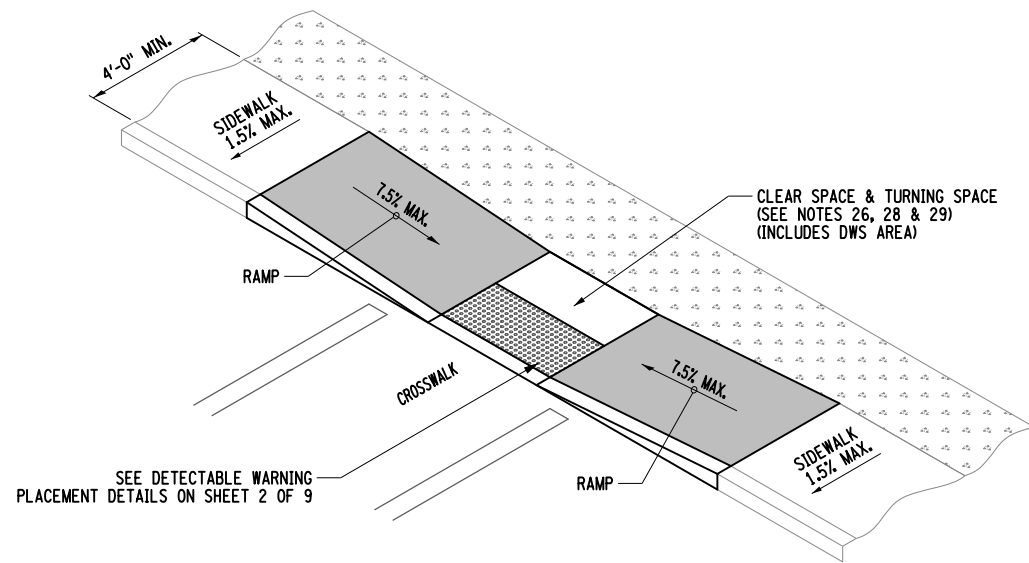


CURB RAMP CONFIGURATION: TYPE 7

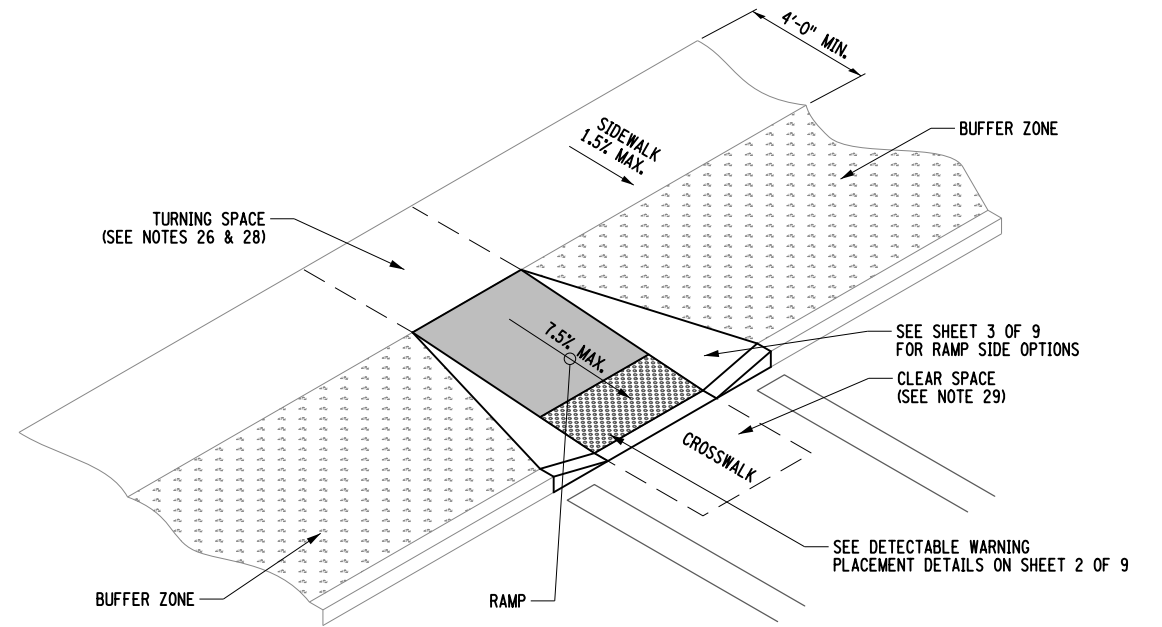
NOTE:

ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON STANDARD SHEET 608-01, SHEET 1 OF 9.

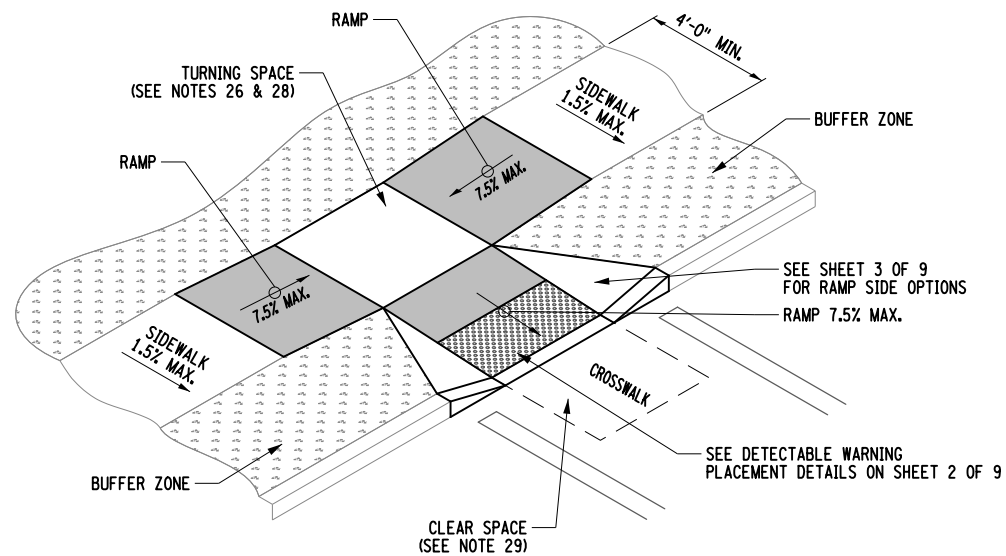
	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
SIDEWALK AND CURB RAMP DETAILS (SHEET 5 OF 9)	
APPROVED MARCH 07, 2016 /S/ RICHARD W. LEE, P.E. DEPUTY CHIEF ENGINEER (DESIGN)	ISSUED UNDER EB 16-012 608-01



**CURB RAMP CONFIGURATION: TYPE 9
MID BLOCK CROSSING OR T INTERSECTION**




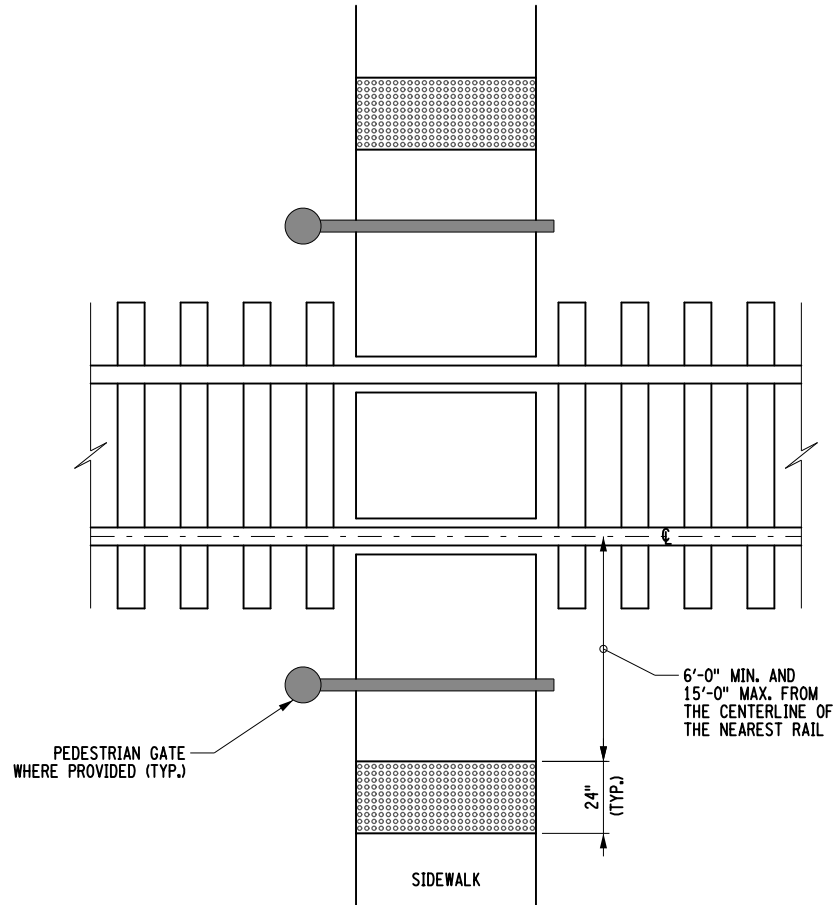
**CURB RAMP CONFIGURATION: TYPE 11
MID BLOCK CROSSING OR T INTERSECTION**



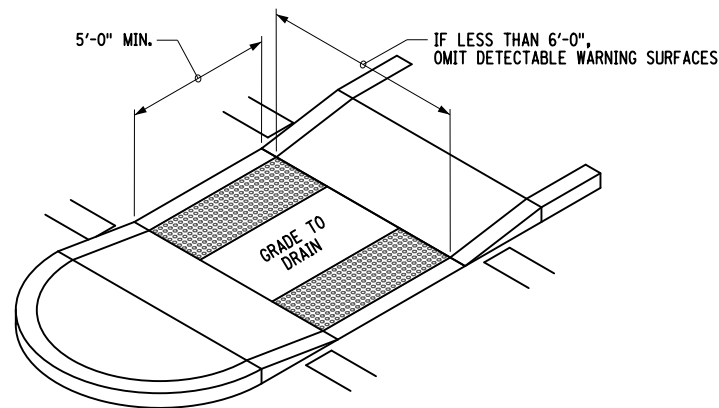
**CURB RAMP CONFIGURATION: TYPE 10
MID BLOCK CROSSING OR T INTERSECTION**

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON STANDARD SHEET 608-01, SHEET 1 OF 9.

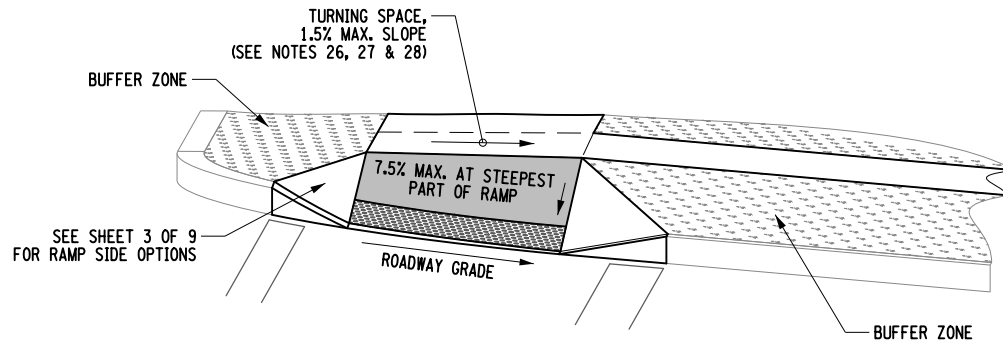
	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
SIDEWALK AND CURB RAMP DETAILS (SHEET 6 OF 9)	
APPROVED MARCH 07, 2016 /S/ RICHARD W. LEE, P.E. DEPUTY CHIEF ENGINEER (DESIGN)	ISSUED UNDER EB 16-012 608-01



DETECTABLE WARNINGS AT RAILROAD CROSSING

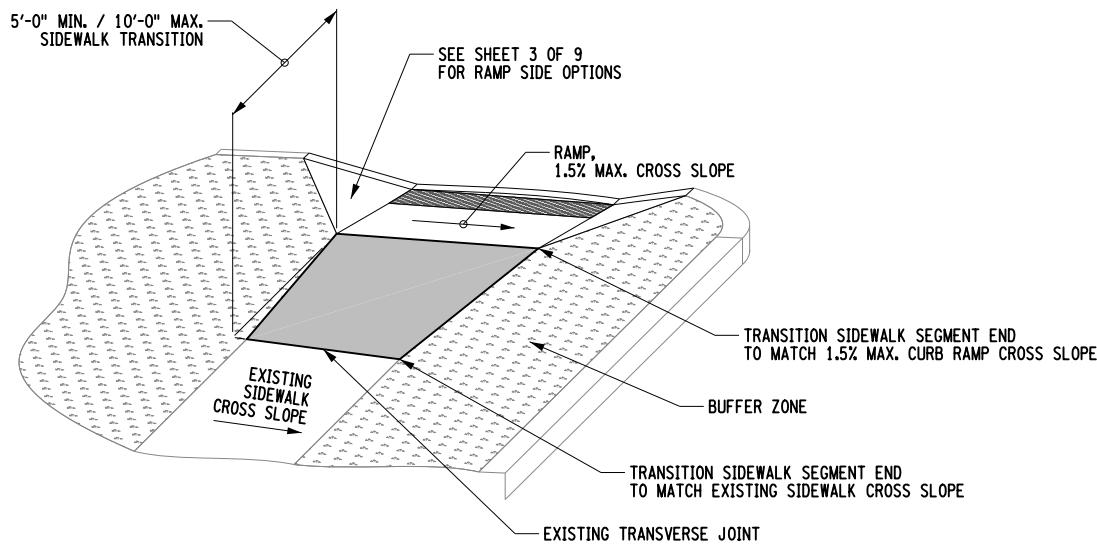


DETECTABLE WARNINGS AT
PEDESTRIAN REFUGE ISLANDS
NON-ELEVATED CROSSING

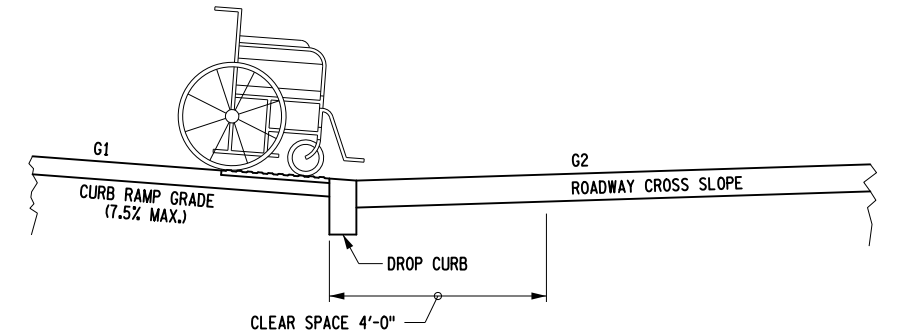


CURB RAMP CROSS SLOPE TRANSITION

REFER TO NOTE 22 ON SHEET 1 OF 9
FOR CROSS SLOPE REQUIREMENTS

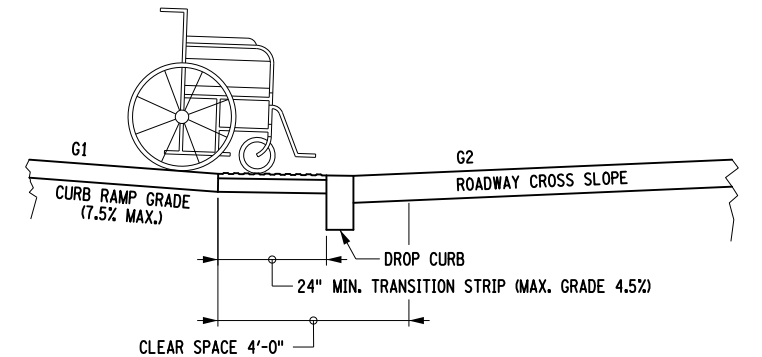


TRANSITION BETWEEN CURB RAMP
AND EXISTING SIDEWALK
USE FOR CROSS SLOPE AND WIDTH TRANSITIONS




COUNTER SLOPE CONDITION 1

$A = |G2 - G1|$
ALGEBRAIC DIFFERENCE BETWEEN ROADWAY CROSS SLOPE
AND CURB RAMP GRADE IS LESS THAN 12.5%.

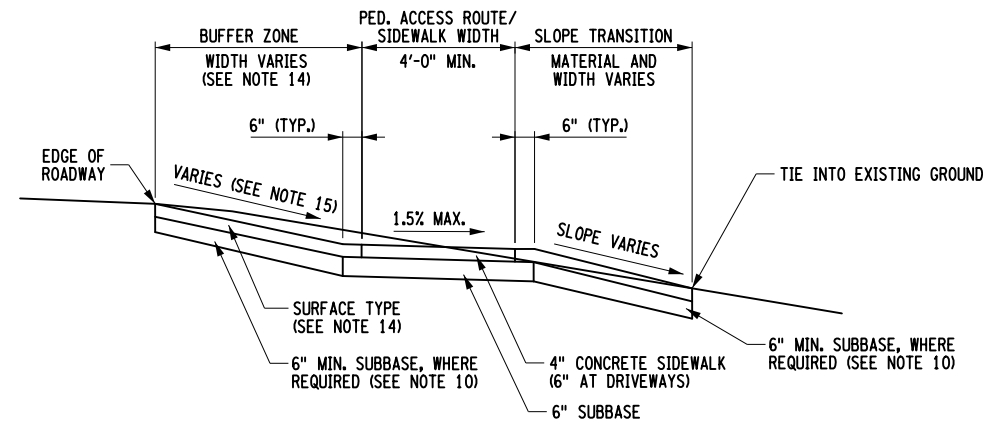


COUNTER SLOPE CONDITION 2

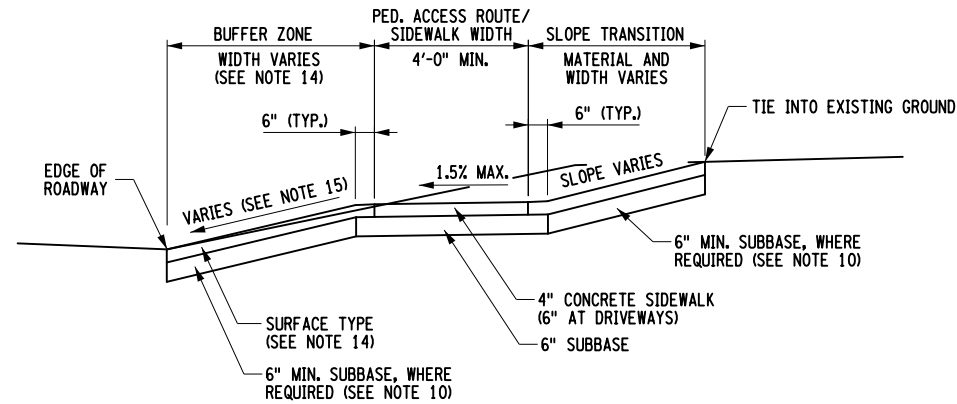
$A = |G2 - G1|$
ALGEBRAIC DIFFERENCE BETWEEN ROADWAY SLOPE
AND CURB RAMP GRADE IS GREATER THAN 12.5%.
TRANSITION STRIP REQUIRED (MAX. GRADE 4.5%)

	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
SIDEWALK AND CURB RAMP DETAILS (SHEET 8 OF 9)	
APPROVED MARCH 07, 2016 /S/ RICHARD W. LEE, P.E. DEPUTY CHIEF ENGINEER (DESIGN)	ISSUED UNDER EB 16-012 608-01

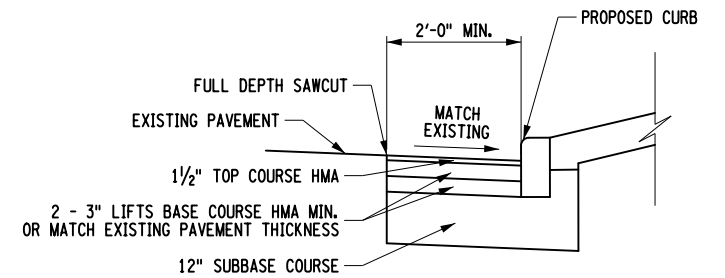
NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON STANDARD SHEET 608-01, SHEET 1 OF 9.



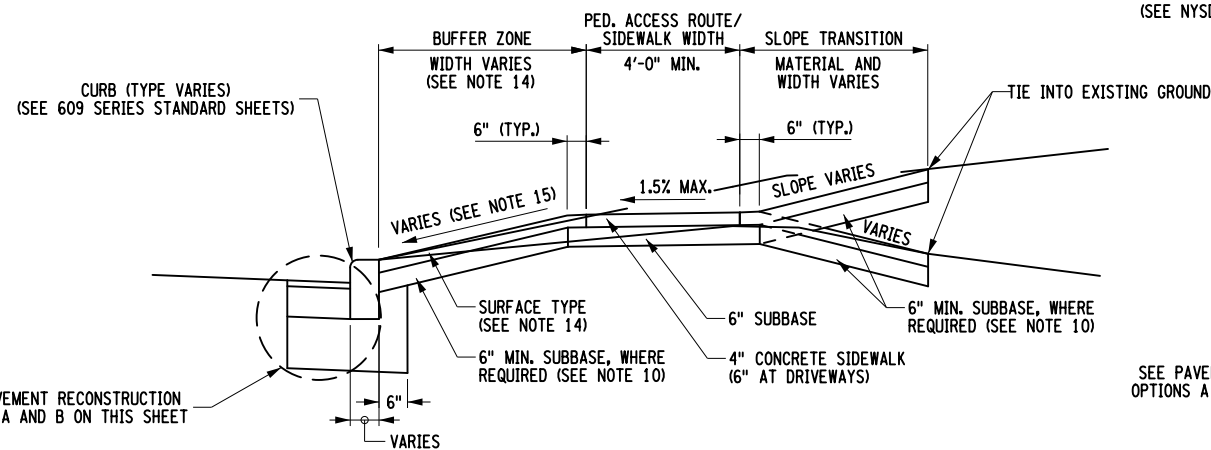
TYPICAL SIDEWALK CROSS SECTION
NO CURB WITH BUFFER ZONE
IN A FILL SECTION



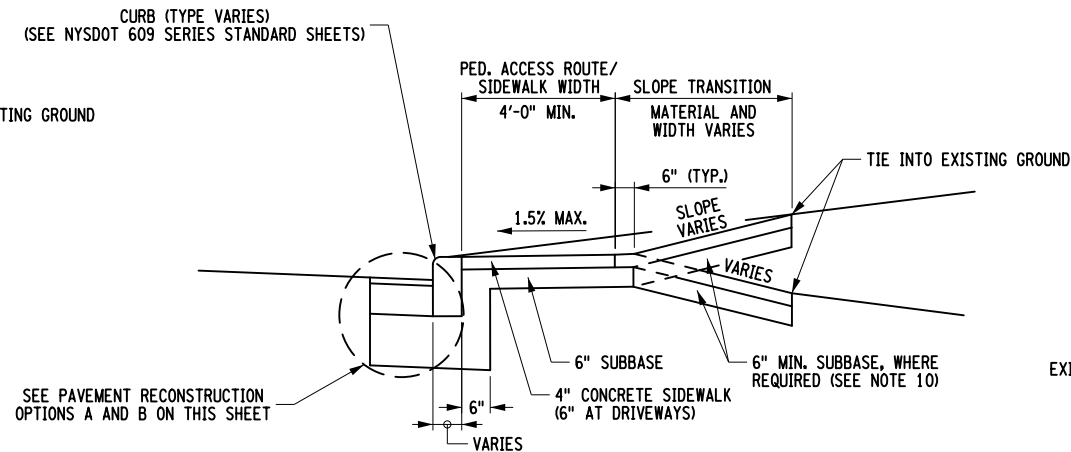
TYPICAL SIDEWALK CROSS SECTION
NO CURB WITH BUFFER ZONE
IN A CUT SECTION



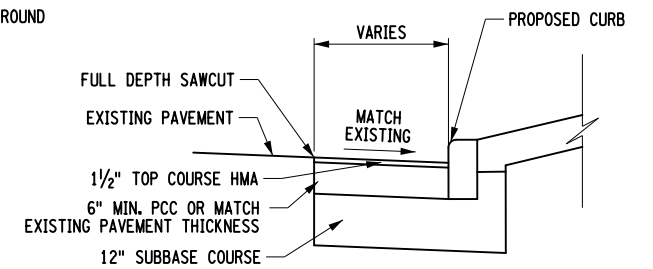
PAVEMENT RECONSTRUCTION OPTION A:
HOT MIX ASPHALT
SEE NOTE 18



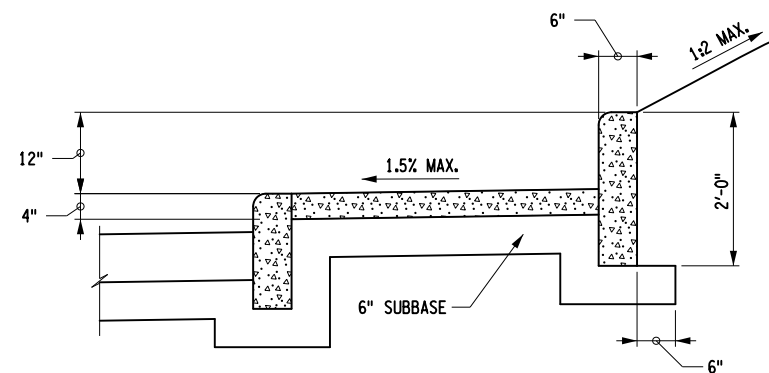
TYPICAL SIDEWALK CROSS SECTION
CURBED WITH BUFFER ZONE



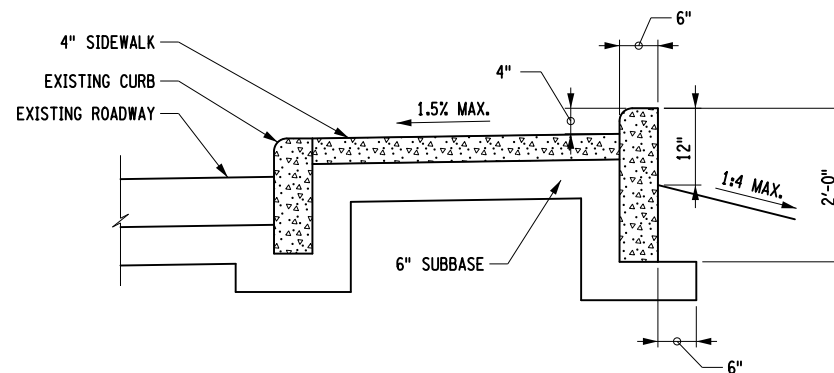
TYPICAL SIDEWALK CROSS SECTION
CURBED WITHOUT BUFFER ZONE



PAVEMENT RECONSTRUCTION OPTION B:
PORTLAND CEMENT CONCRETE
SEE NOTE 18



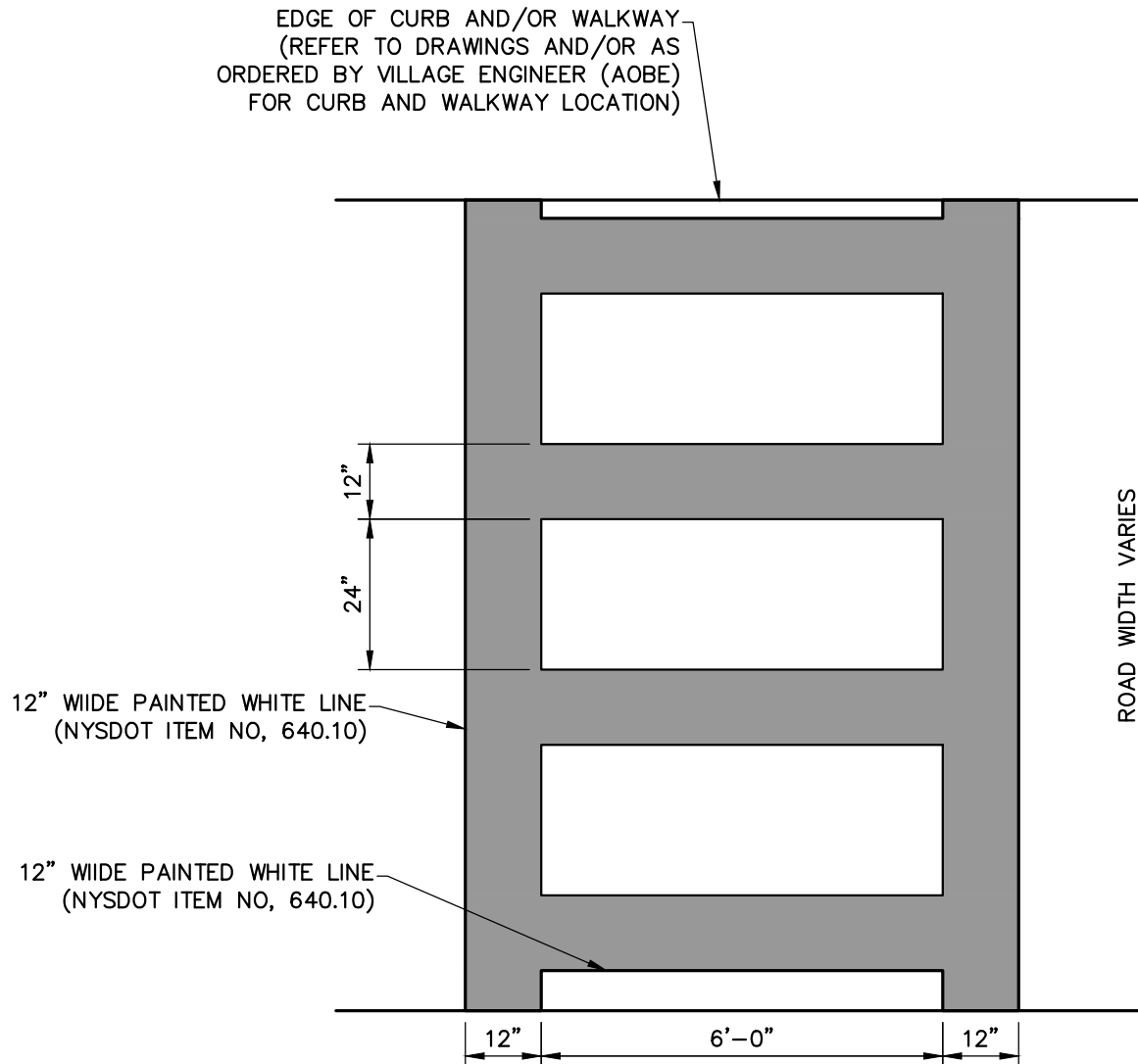
BACK OF CURB DETAIL
USE IN CUT SECTIONS WITH LIMITED
RIGHT-OF-WAY OR STEEP SLOPES



BACK OF CURB DETAIL
USE ON FILL SECTIONS WITH
LIMITED RIGHT-OF-WAY

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON STANDARD SHEET 608-01, SHEET 1 OF 9.

	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
SIDEWALK AND CURB RAMP DETAILS (SHEET 9 OF 9)	
APPROVED MARCH 07, 2016 /S/ RICHARD W. LEE, P.E. DEPUTY CHIEF ENGINEER (DSIGN)	ISSUED UNDER EB 16-012 608-01



NOTES:

1. UNLESS OTHERWISE NOTED, PAVEMENT MARKINGS SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 640 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION AND NYSDOT MUTCD SUPPLEMENT EFFECTIVE MARCH 16, 2011, AS AMENDED.
4. THIS DETAIL SHALL BE COORDINATED WITH THE VILLAGE STANDARD ADA SIDEWALK CURB RAMP CONSTRUCTION DETAIL AND OTHER PERTINENT VILLAGE STANDARD CONSTRUCTION DETAILS.
5. CROSSWALK LINES SHALL BE WHITE REFLECTORIZED PAVEMENT STRIPES, 15 MIL.
6. CROSSWALKS SHALL BE PAINTED IN THE LOCATIONS SHOWN IN THE PLANS AND/OR AS ORDERED BY THE VILLAGE ENGINEER (AOBE).
7. CROSSWALK LINES SHALL BE PAID UNDER NYSDOT ITEM NO. 640.10.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

**PEDESTRIAN CROSSWALK
(REFLECTORIZED PAINT W/ GLASS BEADS)**

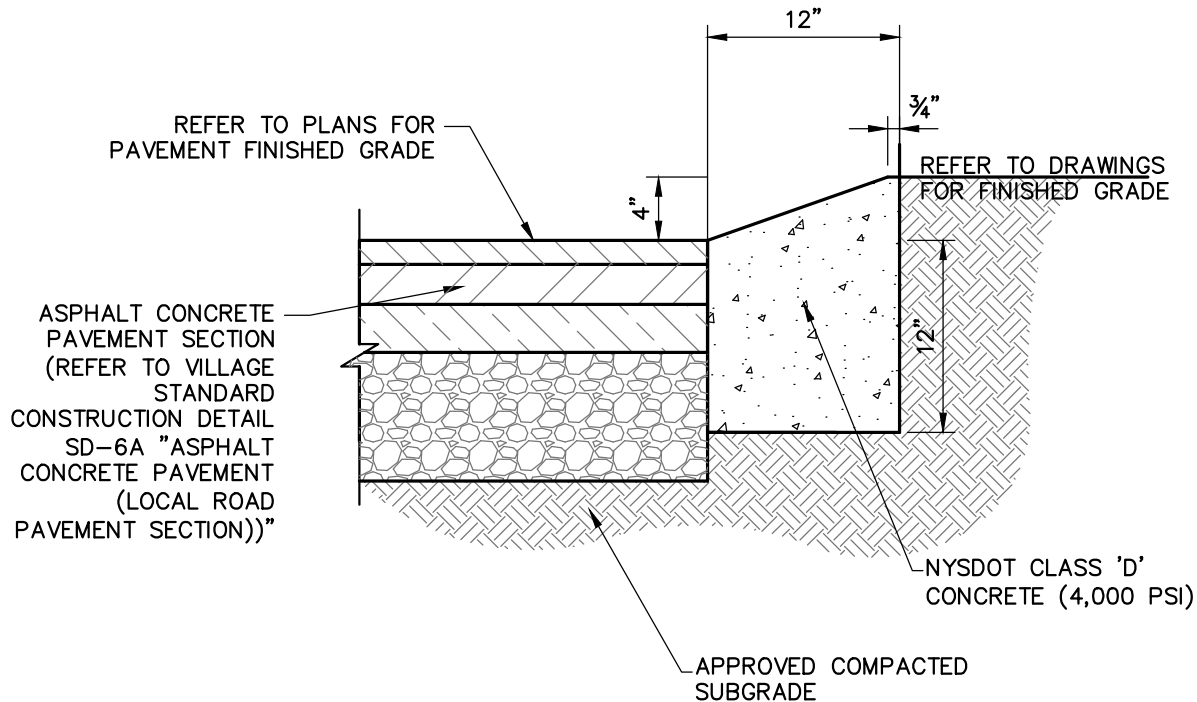
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5I_Pedestrian Crosswalk.dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3931

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-5I



NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE CURB SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501 – PORTLAND CEMENT CONCRETE – GENERAL, SECTION 609 – CURB AND CURB & GUTTER, SECTION 623 – SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 – MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2023, AS AMENDED.
2. CONSTRUCTION JOINT SHALL BE INSTALLED AT THE MID-POINT BETWEEN EXPANSION JOINT SO CURB SEGMENT LENGTH WILL BE TEN (10 FEET).
3. PREMOULDED BITUMINOUS EXPANSION JOINT SHALL BE INSTALLED BETWEEN CURB SEGMENT TO SCALE EVERY TWENTY (20) FEET.
4. MATCH EXPANSION JOINT IF CURB IS INSTALLED ADJACENT TO SIDEWALK OR CONCRETE PAVEMENT.
5. CURB SEGMENT LENGTH MAY DIFFERENTIATE AT CLOSURE POINT, BUT SHALL NOT BE LESS THAN FOUR (4) FEET.
6. CURB SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 609.04 FOR TYPE T100 (TRAVERSABLE CURB).
7. CAST-IN-PLACE CONCRETE CURB SHALL BE USED IN AREAS AS DIRECTED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER WHERE MONOLITHIC CURB AND SIDEWALK CONSTRUCTION IS NOT REQUIRED AND/OR FEASIBLE (e.g. ADJACENT TO LAWN AREAS).
8. PLEASE REFER TO VILLAGE ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE SIDEWALKS STANDARD CONSTRUCTION DETAIL FOR ADDITIONAL INFORMATION.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

CAST-IN-PLACE (CIP) CONCRETE TRAVERSABLE CURB

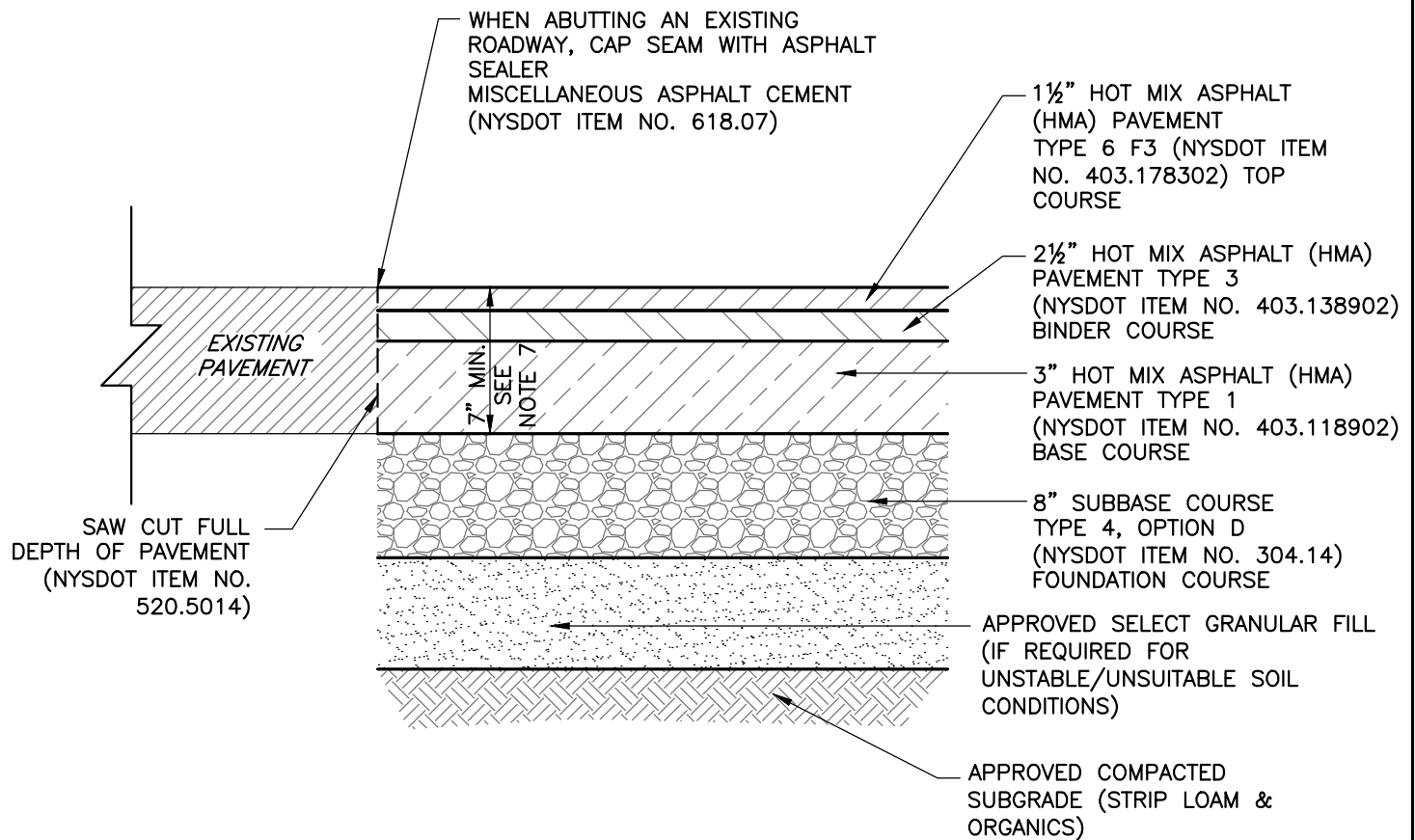
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-5J_Cast-In-Place Concrete Traversable Curb.dwg



VILLAGE OF PLEASANTVILLE
VILLAGE HALL
80 WHEELER AVENUE
WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
FAX: (914) 747-3831

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 08/21/2023
REV: XX/XX/2023

SD-5J



NOTES:

1. UNLESS OTHERWISE NOTED, HOT MIX ASPHALT (HMA) PAVEMENT SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 403 – HOT MIX ASPHALT (HMA) PAVEMENTS FOR MUNICIPALITIES OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSOT) STANDARD SPECIFICATIONS, DATED MAY 1, 2008. PLEASE NOTE, THE 403 SPECIFICATION SECTION IS NO LONGER INCLUDED IN THE NYSOT STANDARD SPECIFICATIONS, BUT STILL INCORPORATED BY THE VILLAGE.
2. UNLESS OTHERWISE NOTED, SUBBASE COURSE SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 300 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2023, AS AMENDED.
3. THIS STANDARD CONSTRUCTION DETAIL DEPICTS COMPACTED IN-PLACE PAVEMENT THICKNESS.
4. THIS DETAIL SHALL BE COORDINATED WITH THE VILLAGE STANDARD PIPE TRENCH AND ASPHALT PAVEMENT REPLACEMENT CONSTRUCTION DETAIL AND OTHER PERTINENT VILLAGE STANDARD CONSTRUCTION DETAILS.
5. THIS ASPHALT CONCRETE PAVEMENT SECTION APPLIES ONLY TO LOCAL (i.e. VILLAGE) ROADS. PAVEMENT REPLACEMENT, REHABILITATION, CONSTRUCTION, ETC. FOR COUNTY AND STATE ROADWAYS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
6. IF 403 HOT MIX ASPHALT (HMA) ITEM NUMBERS ARE UNAVAILABLE FROM THE ASPHALT PLANT, NYSOT SUPERPAVE HMA 70 OR 80 SERIES COMPACTION SHALL BE SUBSTITUTED UPON REVIEW AND APPROVAL BY THE VILLAGE ENGINEER.
7. HOT MIX ASPHALT (HMA) PAVEMENT SHALL BE 7" MIN. THICK, OR MATCH EXISTING HMA PAVEMENT THICKNESS, WHICHEVER IS GREATER. IF EXISTING HMA PAVEMENT IS GREATER THAN 7", THE HMA DIFFERENCE SHALL CONSIST OF HMA BASE COURSE (OR BINDER COURSE FOR SMALL QUANTITIES).
8. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER RESERVES THE RIGHT TO MODIFY (e.g. INCREASE THICKNESS) THE PAVEMENT SECTION DUE TO SITE CONDITIONS (e.g. UNSUITABLE/UNSTABLE SUBGRADE, HIGH GROUNDWATER, ETC.).

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

ASPHALT CONCRETE PAVEMENT (LOCAL ROAD PAVEMENT SECTION)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-6A Asphalt Concrete Pavement.dwg



VILLAGE OF PLEASANTVILLE
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PROJECT: DETAILS
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DATE: 10/25/2022
REV: 11/27/2022
REV: 08/16/2023
SD-6A

UNLESS OTHERWISE SPECIFIED ON THE PLANS, MEET EXISTING GRADE AT PAVEMENT SEAM AND BOTTOM FACE OF CURB

2" BITUMINOUS CONCRETE TYPE 6 F3 (NYS DOT ITEM NO. 403.178302) TOP COURSE

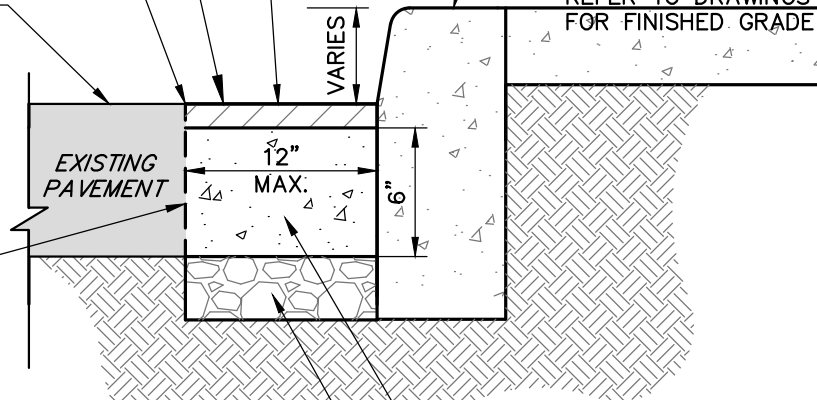
CAP SEAM WITH HOT ASPHALT CONCRETE (AC) SEALANT (i.e. MISCELLANEOUS ASPHALT CEMENT, NYSDOT ITEM NO. 618.07)

EXISTING ROADWAY PAVEMENT SECTION (DEPTH VARIES)

CAST-IN-PLACE (CIP) CONCRETE CURB, GRANITE CURB OR MONOLITHIC CURB AND SIDEWALK. REFER TO APPLICABLE VILLAGE STANDARD CONSTRUCTION DETAILS.

REFER TO DRAWINGS FOR FINISHED GRADE

AT SAWCUT LINES, APPLY TACK COAT (NYS DOT ITEM NO. 407.0101) ALONG VERTICAL FACE OF JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE PAVEMENT



6" THICK NYSDOT CLASS 'D' CONCRETE (4,000 PSI) (NYSDOT ITEM NO. 608.01)

4" THICK 3/4" APPROVED COMPACTED CLEAN WASHED CRUSHED STONE BASE COURSE (PERMEABLE DRAINAGE LAYER) (NYSDOT ITEM NO. 623.12, SIZE DESIGNATION 2)

APPROVED COMPACTED SUBGRADE

NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE CURB AND HOT MIX ASPHALT (HMA) PAVEMENT SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 403 – HOT MIX ASPHALT (HMA) PAVEMENTS FOR MUNICIPALITIES, SECTION 501 – PORTLAND CEMENT CONCRETE – GENERAL, SECTION 608 – SIDEWALKS, DRIVEWAYS, BICYCLE PATHS AND VEGETATION CONTROL STRIPS, SECTION 623 – SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 – MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2023, AS AMENDED.
2. THE VERTICAL FACE OF THE COLD BUTT JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE SEALED WITH TACK COAT AND THE SEAM SHALL BE SEALED WITH HOT AC SEALANT AS SHOWN ABOVE.
3. PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 608.0101. CRUSHED STONE SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 623.12.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

ROADWAY PAVEMENT REPLACEMENT FOR CIP, GRANITE OR MONOLITHIC CONCRETE CURB INSTALLATION

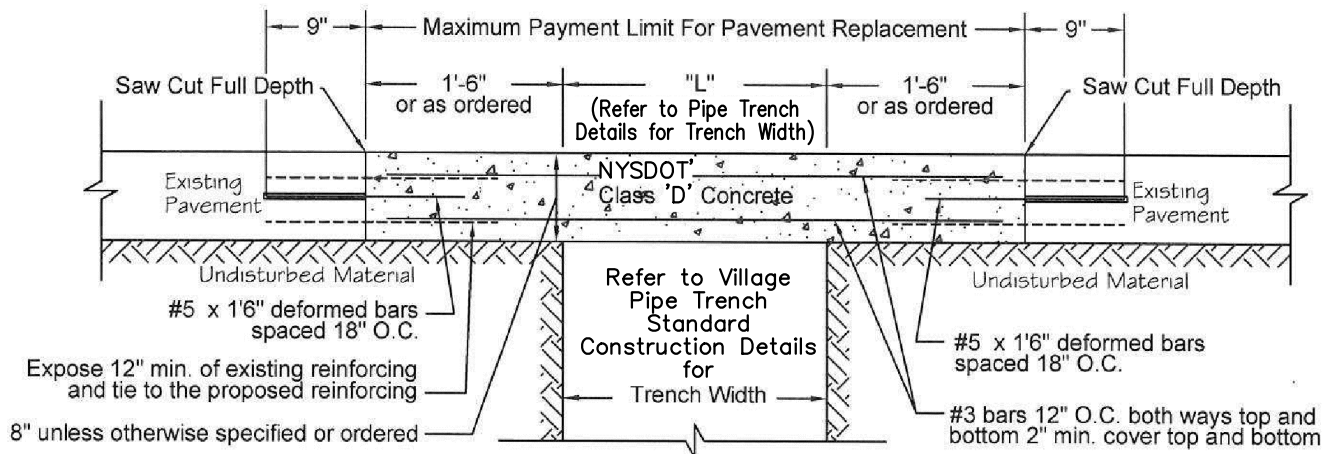
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-6B_Roadway Pavement Replacement for Curb Installation.dwg



VILLAGE OF PLEASANTVILLE
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WESTCHESTER COUNTY
VILLAGE OF PLEASANTVILLE, NY 10570
PHONE: (914) 769-3883
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 08/16/2023

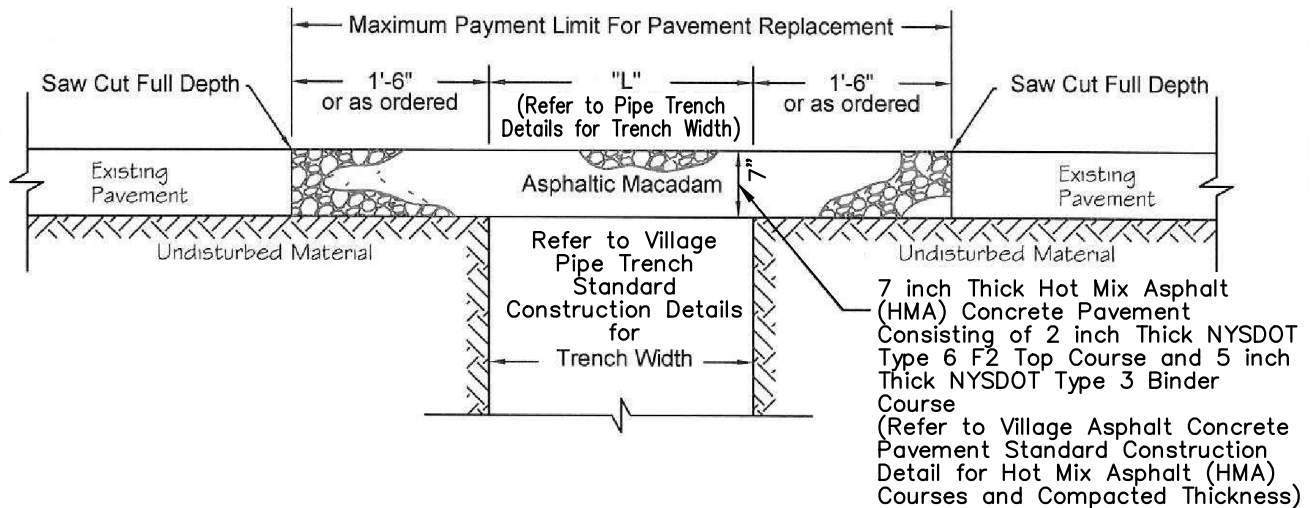
SD-6B



CONCRETE PAVEMENT REPLACEMENT

(Item 56)

SCALE = N.T.S.



ASPHALTIC MACADAM PAVEMENT REPLACEMENT

SCALE = N.T.S.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

ROADWAY PAVEMENT REPLACEMENTS (PAGE 1 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-6C_Roadway Pavement Replacements.dwg



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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 03/02/2023

SD-6C

PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: 03/02/2023
REV: 08/16/2023
SD-6C

SCALE: 1" = 30'-0"

SCENARIO "A"
(SINGLE SERVICE/UTILITY)

WITH A 5'-0" MINIMUM WIDTH MEASURED FROM EITHER
EDGE OF TRENCH AND AC SEAL ON THREE SIDES

CURBLINE

CENTERLINE

CURBLINE

5'-0" MINIMUM FROM EDGE OF TRENCH

6" S/W

AC SEAL AT ALL CUTS (TYPICAL)

LEGEND

TRENCH AREA

REQUIRED MINIMUM PATCH AREA

STRUCTURE

1

SCENARIO "B"
(SINGLE SERVICE/UTILITY)

Diagram illustrating the required minimum patch area for a trench. The diagram shows a cross-section of a trench with a structure below it. The trench is labeled with "CURBLINE" and "CENTERLINE". The structure is labeled "STRUCTURE". The trench width is indicated as $G/S/W$. The required minimum patch area is shown as a shaded region extending from the edge of the trench, labeled "5' MINIMUM FROM EDGE OF TRENCH". The AC seal is shown at the edge of the trench, labeled "AC SEAL AT ALL CUTS (TYPICAL)".

MINIMUM MEASURED FROM EITHER EDGE OF TRENCH WITH AC SEAL ON TWO (2) SIDES

CURBLINE

CENTERLINE

CURBLINE

5' MINIMUM FROM EDGE OF TRENCH

$G/S/W$

AC SEAL AT ALL CUTS (TYPICAL)

STRUCTURE

LEGEND

- TRENCH AREA
- REQUIRED MINIMUM PATCH AREA

SCENARIO "C"
(MULTI-SERVICE/UTILITY PATCHWORK)

Diagram illustrating the trench repair process. The diagram shows a cross-section of a trench with a structure (e.g., pipe) inside. The trench is labeled with "CURBLINE" and "CENTERLINE". The structure is labeled "STRUCTURE". The trench is filled with "GAS". The diagram shows the "TRENCH AREA" and the "REQUIRED MINIMUM PATCH AREA". The patch area is defined by a width of "30' - 60'" and a length of "5' MINIMUM FROM EDGE OF TRENCH (TYP.)". The diagram also shows "AC SEAL AT ALL CUTS (TYPICAL)".

Diagram illustrating the trench repair process. The diagram shows a cross-section of a trench with a structure (e.g., pipe) inside. The trench is labeled with "CURBLINE" and "CENTERLINE". The structure is labeled "STRUCTURE". The trench is filled with "GAS". The diagram shows the "TRENCH AREA" and the "REQUIRED MINIMUM PATCH AREA". The patch area is defined by a width of "30' - 60'" and a length of "5' MINIMUM FROM EDGE OF TRENCH (TYP.)". The diagram also shows "AC SEAL AT ALL CUTS (TYPICAL)".

1

SCENARIO "D"
(MULTI-SERVICE/UTILITY)

FROM THE EDGES OF THE PORTLAND CEMENT TRENCHES WITH A
AC SEAL ON TWO (2) SIDES. IF MORE THAN 60" IS NEEDED A
SEPARATE RESTORATION PLAN WILL BE MADE.

CURBLINE

CENTERLINE

W W W W W

S S S S S S

GAS GAS GAS GAS GAS

5' MINIMUM
FROM EDGE OF
TRENCH (TYP.)

1' MINIMUM
FROM TRENCH (TYP.)

AC SEAL AT
ALL CUTS (TYPICAL)

LEGEND

TRENCH AREA

REQUIRED MINIMUM
PATCH AREA

STRUCTURE

SCENARIO "E"
(GAS MAIN REPAIR OVER 50')

GAS MAIN REPAIRS OR REPLACEMENTS OVER 50'-0" WILL REQUIRE FULL CURB TO CURB RESTORATION (MILL AND PAVE) WITH BACKFILL CERTIFICATION OF K-CRETE AND BINDER THE FULL LENGTH OF WORK PLUS 5' ON BOTH SIDES EXTENDED WITH AC SEAL ON ENDS.

Labels in diagram: AC SEAL AT ALL CUTS (TYPICAL), CURBLINE, CENTERLINE, GAS, 5' MINIMUM, AC SEAL AT ALL CUTS (TYPICAL).

LEGEND

- TRENCH AREA
- REQUIRED MINIMUM PATCH AREA

STRUCTURE

1

SCENARIO "F"
(ROADWAY PAVED WITHIN PAST THREE YEARS)

RESTORATION (MILL AND PAVE) FOR THE LENGTH OF WORK PLUS A MINIMUM OF 20' ON BOTH SIDES, EXACT LIMITS TO BE SET BY THE VILLAGE ENGINEER IN THE FIELD. AC SEAL REQUIRED ON BOTH ENDS.

AC SEAL AT ALL CUTS (TYPICAL)

CURBLINE

CENTERLINE

W

S

GAS

25' MINIMUM FROM EDGE OF TRENCH (TYP.)

25' MINIMUM FROM EDGE OF TRENCH (TYP.)

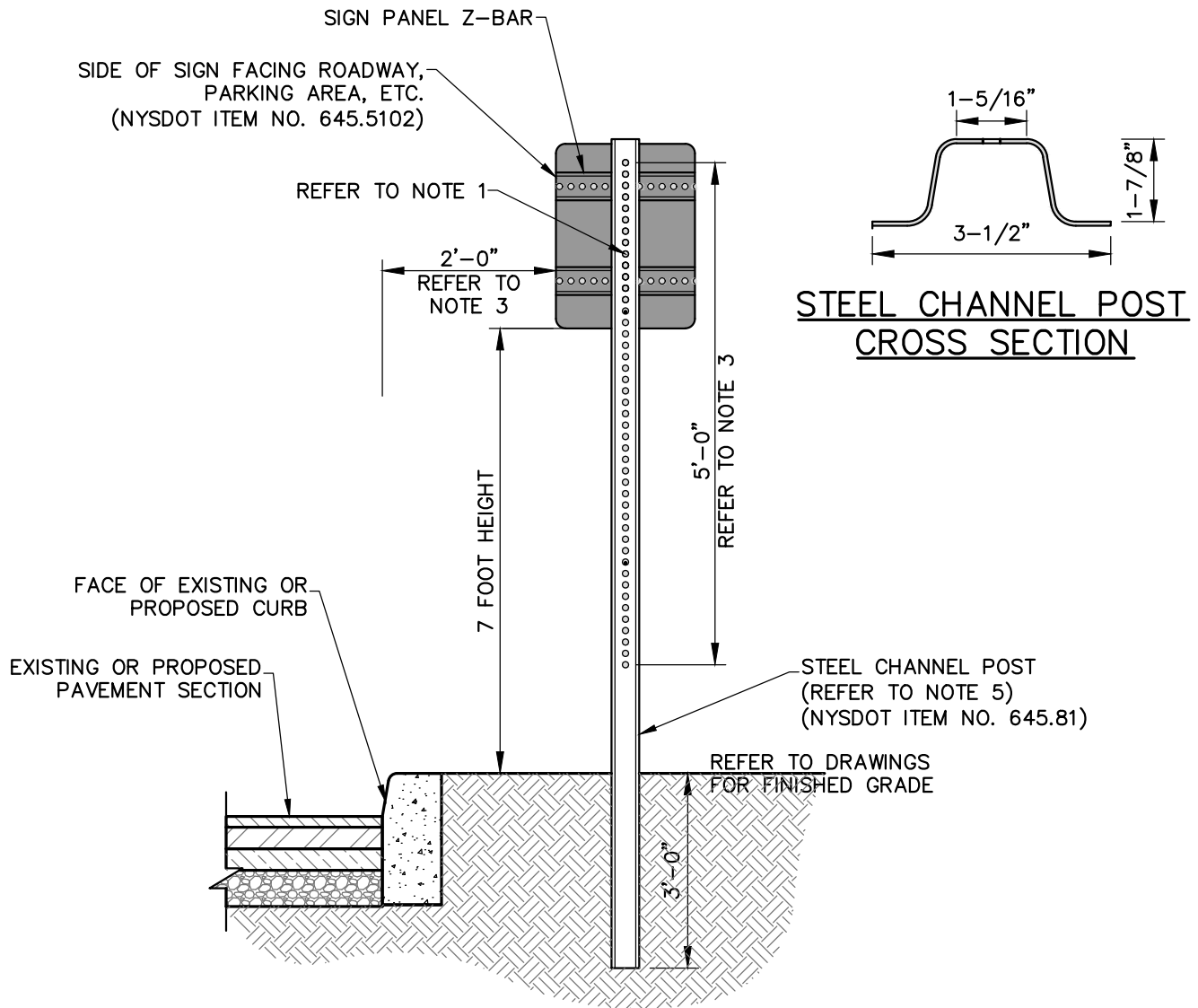
LEGEND

TRENCH AREA

REQUIRED MINIMUM PATCH AREA

STRUCTURE

SD-6D



NOTES:

1. TRAFFIC SIGN AND POST SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 645, AND OTHER SECTIONS AS APPLICABLE, OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED SEPTEMBER 1, 2022 WITH LATEST REVISIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION AND NYSDOT MUTCD SUPPLEMENT EFFECTIVE MARCH 16, 2011, AS AMENDED.
2. GROUND-MOUNTED SIGNS WITH Z-BARS LESS THAN OR EQUAL TO 30 SQUARE FEET SHALL BE 10 GAUGE THICK MEETING THE REQUIREMENTS OF NYSDOT §730-01 ALUMINUM SIGN PANELS. OR 0.135 INCH THICK, MEETING THE REQUIREMENTS OF NYSDOT §730-23 FIBERGLASS REINFORCED PLASTIC SIGN PANELS FOR SIGN PANELS UP TO 4 FEET X 4 FEET.
3. EDGE OF SIGN SHALL BE PLACED 2 FEET BEHIND THE FACE OF CURB, UNLESS OTHERWISE DIRECTED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
4. TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH VILLAGE OF PLEASANTVILLE AND MUTCD REQUIREMENTS AND SHALL BE NYSDOT ITEM NO. 645.5102 "GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS".
5. SIGN POSTS SHALL BE STEEL CHANNEL AND CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 645.81 "TYPE A SIGN POST".

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

TRAFFIC SIGN POST (STEEL CHANNEL WITH Z-BARS)

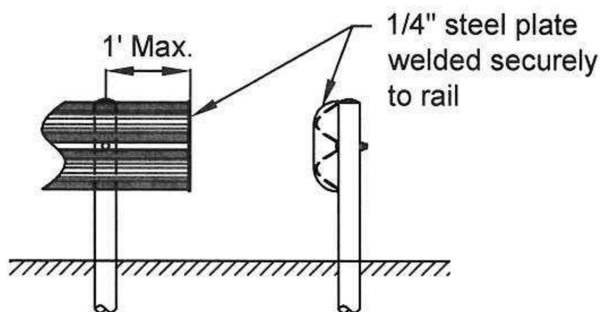
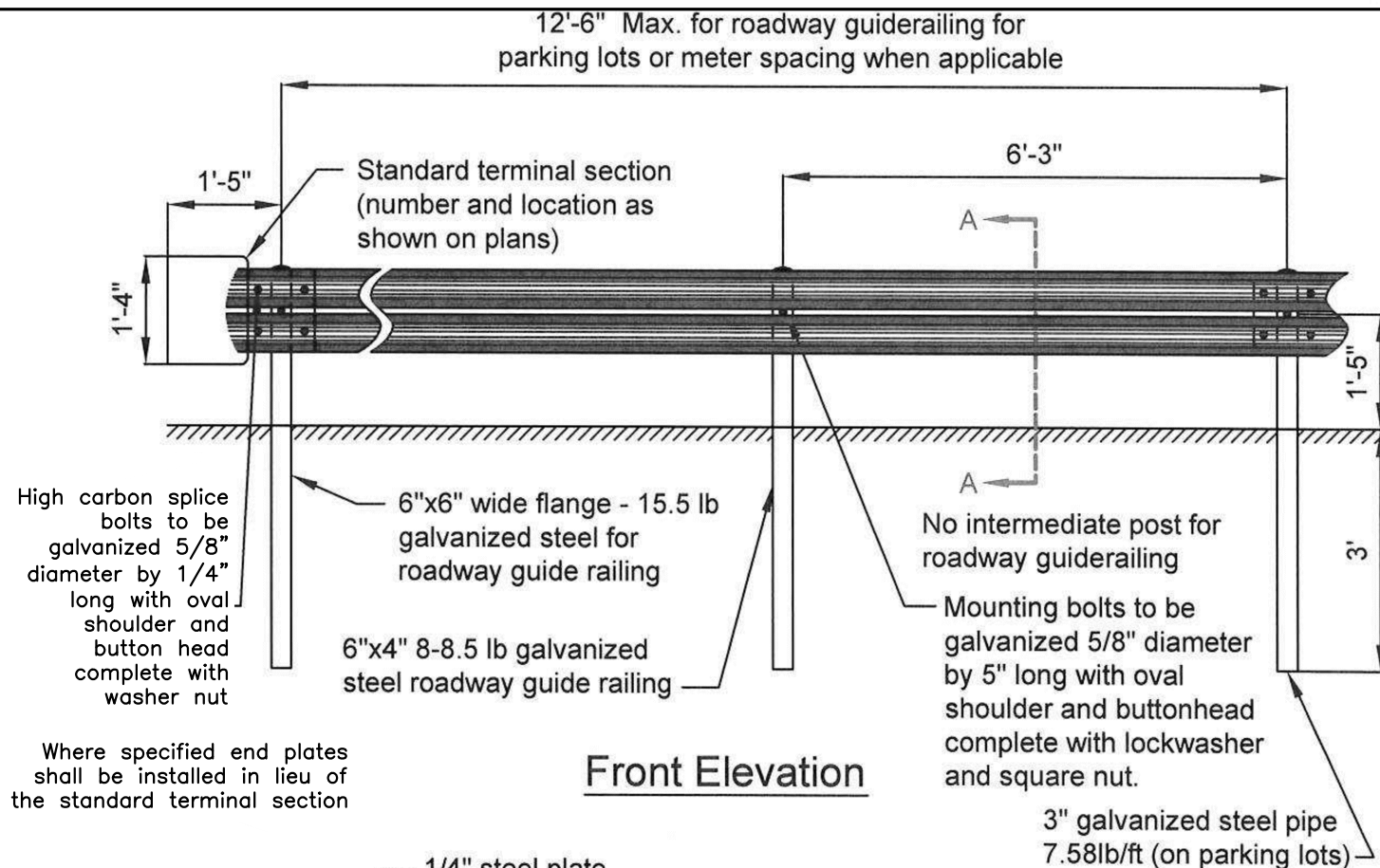
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-7A_Traffic Sign Post.dwg



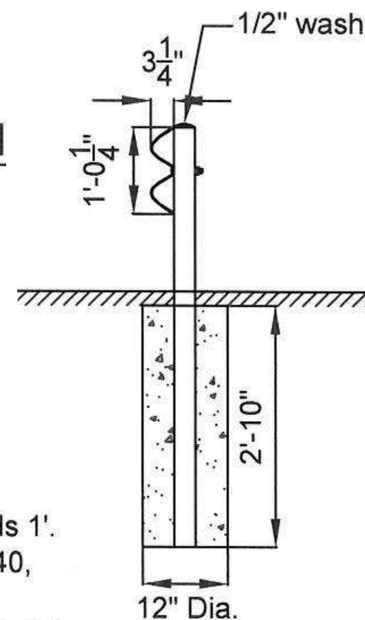
VILLAGE OF PLEASANTVILLE
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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-7A



Steel Bumper Rail



Bumper Rail End Plate

NOTES

1. All concrete will be Class "A".
2. All nuts will be at the rear face of the rail and posts.
3. Post to be set in concrete foundation only in those areas where fill exceeds 1'.
4. All pipe for parking lot appurtenances shall be standard weight schedule 40, welded or seamless steel pipe ASTM Designation A-53.
5. Galvanization of bumper rail and posts for all parking lot appurtenances shall be done by the hot-dip method and in accordance with ASTM specification A-123.
6. The contractor's attention is directed to the construction specifications pertaining to the specified items.
7. All steel post for roadway guide railing to be ASTM A-7 structural steel.
8. Tops of all posts shall be sawed and burs removed (carefully).
9. Galvanized steel bumper to be 10 gauge Flex-beam guard rail as manufactured by Armco Drainage and Metal Products or approved equal.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

CORRUGATED W-BEAM GUIDERAIL

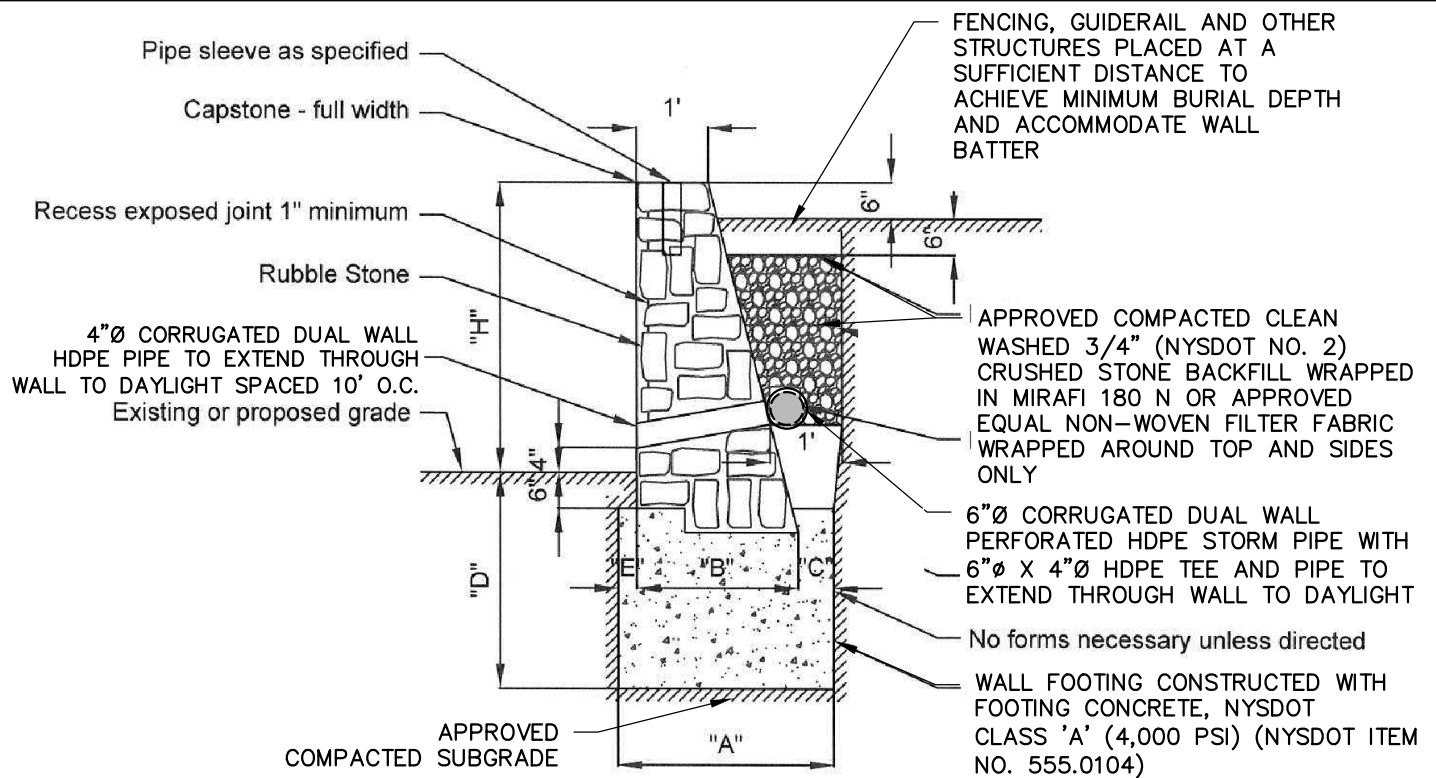
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-7B_Corrugated Beam Guiderail.dwg



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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-7B



Concrete Foundation For Wall
(Item 23)

Rubble Stone Masonry
(Item 27)

NOTES

MAXIMUM PAYMENT LIMIT					
H(Ft)	"A"	"B"	"C"	"D"	"E"
1	1'-0"	1'-5"	4"	2'-0"	3"
2	2'-3"	1'-8"	4"	2'-0"	3"
3	2'-8"	1'-10"	7"	3'-0"	3"
4	3'-0"	2'-2"	7"	3'-0"	3"
5	3'-3"	2'-5"	7"	3'-0"	3"
6	3'-6"	2'-8"	7"	3'-0"	3"
7	4'-8"	3'-6"	10"	3'-0"	4"
8	5'-0"	3'-10"	10"	3'-0"	4"
9	5'-4"	4'-2"	10"	3'-0"	4"
10	5'-8"	4'-6"	10"	3'-0"	4"

- Where the height (H) of the wall is less than 2'-0", no weep holes or stone for drainage will be required.
- This wall shall be constructed for general use only. No provision has been made for a surcharge load.
- MORTAR (TYPE S) FOR MASONRY WORK SHALL BE TYPE S MORTAR IN ACCORDANCE WITH ASTM C-270.
- MORTAR SHALL MEET NYSDOT SPECIFICATION 705-21 "MORTAR FOR CONCRETE MASONRY". MORTAR SHALL BE COMPOSED OF TWO (2) PARTS TYPE II PORTLAND CEMENT (ASTM C 150), ONE (1) PART HYDRATED LIME (ASTM C 207, TYPE S) AND NINE (9) PARTS SAND (ASTM C 144), WELL GRADED WITH NO GRAIN LARGER THAN WILL PASS A NUMBER 8 SIEVE.
- THE FINAL LOCATION OF THE RETAINING WALL WITHIN THE VILLAGE RIGHT-OF-WAY SHALL BE COORDINATED IN THE FIELD, AND REVIEWED AND APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
- THE VILLAGE ENGINEER RESERVES THE RIGHT TO REQUIRE A STRUCTURAL ANALYSIS/ENGINEERING CALCULATIONS FOR THE PROPOSED RETAINING WALL DEPENDING ON HEIGHT, SURCHARGED LOADING, SUBGRADE CONDITIONS, ETC. THIS DETAIL IS NOT INTENDED FOR SEAWALLS.
- FOR WALLS ON PRIVATE PROPERTY, THE DESIGN ENGINEER IS RESPONSIBLE FOR PROFESSIONAL ENGINEERING CERTIFICATION OF THE RETAINING WALL DESIGN.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

RUBBLE STONE MASONRY RETAINING WALL (FOR NON-SURCHARGED LOADS)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-8A_Masonry Retaining Wall.dwg



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PROJECT: DETAILS
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DATE: 10/25/2022
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SD-8A

LOCAL ROAD WORK ZONE MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES:

1. THE CONTRACTOR SHALL SUBMIT TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER, IN WRITING, A TRAFFIC CONTROL PLAN (i.e. MAINTENANCE AND PROTECTION OF TRAFFIC PLAN) FOR REVIEW AND APPROVAL FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF THE PROPOSED PLAN. THE MPT PLAN SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS, THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS" 2009 EDITION, AND THE NEW YORK STATE SUPPLEMENT TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" 2009 EDITION, EFFECTIVE MARCH 16, 2011, AS AMENDED.
2. THE CONTRACTOR SHALL PROVIDE THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO THE VILLAGE OF PLEASANTVILLE.
3. WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.
4. THE FINAL LOCATION OF WORK ZONE TRAFFIC SIGNS ARE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
5. ANY EXISTING SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
6. DIAMOND SHAPED ADVANCED WARNING SIGNS SHALL BE USED FOR ALL ADVANCE WARNING SIGNS THAT MAY BE EITHER DIAMOND OR RECTANGULAR SHAPED. ACCORDING TO PART 238 OF THE NYSMUTCD THE BOTTOM OF THE SIGN SHALL BE 7' MINIMUM ABOVE THE GROUND AND 2' MINIMUM FROM FACE OF CURB OR EDGE OF TRAVELED WAY. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER MAY ORDER ADDITIONAL OR MODIFIED DEVICES AND/OR METHODS TO MEET FIELD CONDITIONS.
7. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORISTS LINE OF SIGHT.
8. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.
9. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. ACCESS SHALL BE RESTORED AS SOON AS POSSIBLE.
10. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.
11. UNLESS AUTHORIZED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: LOCAL ROADWAYS IS 10 FEET.
12. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
13. ALL CERTIFIED FLAGGERS SHALL USE STOP-SLOW PADDLES WHERE FEASIBLE. FLAGS MAY BE USED AT INTERSECTIONS OR WHERE THE BACK SIDE MESSAGE IS INAPPROPRIATE FOR OPPOSING TRAFFIC OR WHERE CONDITIONS SUCH AS HIGH WIND MAKE THE USE OF A PADDLE IMPRACTICAL.
14. THE FLAGTREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
15. ALL FLAGGERS SHALL USE 24 INCH (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6 FOOT STAFF.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER

MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES (PAGE 1 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-9_MPT Notes.dwg



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PROJECT: DETAILS
SCALE: NOT TO SCALE
DATE: 10/25/2022
REV: XX/XX/20XX

SD-9

LOCAL ROAD WORK ZONE MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES:

1. THE CONTRACTOR SHALL SUBMIT TO THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER, IN WRITING, A TRAFFIC CONTROL PLAN (i.e. MAINTENANCE AND PROTECTION OF TRAFFIC PLAN) FOR REVIEW AND APPROVAL FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF THE PROPOSED PLAN. THE MPT PLAN SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS, THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS" 2009 EDITION, AND THE NEW YORK STATE SUPPLEMENT TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" 2009 EDITION, EFFECTIVE MARCH 16, 2011.
2. CONTRACTOR SHALL PROVIDE CERTIFIED FLAG PERSONS WITH STOP/SLOW STAFF MOUNTED PADDLE BOARD SIGNS WHEN TRUCKS ENTER AND LEAVE THE SITE.
3. NYSDOT DRUMS USED FOR TRAFFIC WARNING SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT, AND HAVE AT LEAST AN 18 INCH MINIMUM WIDTH. EACH DRUM SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. THESE WARNINGS ON DRUMS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 4 TO 6 INCHES WIDE. THE CONTRACTOR SHALL USE NYSDOT TRAFFIC CONES AS NEEDED TO SUPPLEMENT TRAFFIC DRUMS.
4. WARNING LIGHTS SHALL BE SECURED TO THE NYSDOT DRUMS. TYPE A LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE VISIBLE ON A CLEAR NIGHT FROM A DISTANCE OF 3,000 FEET.
5. CONSTRUCTION EQUIPMENT SHALL BE REMOVED FROM THE ROADSIDE AREA DURING NON-WORKING HOURS.
6. PRIVATE VEHICLES OWNED BY THE CONTRACTOR OR HIS/HER WORKMEN SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS, OR ANY OTHER AREAS DEEMED BY THE VILLAGE OF PLEASANTVILLE TO BE HAZARDOUS LOCATIONS.
7. NO MATERIAL SHALL BE PLACED ON THE SHOULDER, OR WITHIN 30 FEET FROM THE EDGE OF PAVEMENT, EXCEPT THAT WHICH IS TO BE PLACED THAT DAY.
8. CONTRACTOR SHALL USE TRAFFIC CONES AS NEEDED TO SUPPLEMENT TEMPORARY BARRIER AND DRUMS.
9. CONTRACTOR SHALL BE CAUTIOUS TO NOT DAMAGE OVERHEAD WIRES DURING CONSTRUCTION.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ALL NECESSARY ON-STREET TEMPORARY PARKING SUSPENSIONS WITHIN THE PROJECT AREA TO COMPLETE THE WORK WITH THE VILLAGE OF PLEASANTVILLE.
11. WORK ZONE TRAFFIC CONTROL SHALL CONFORM TO THE SPECIFICATIONS NYSDOT ITEM NO. 619.01.
12. NIGHTTIME OPERATIONS SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 619.24.
13. POLICE FOR TRAFFIC CONTROL SERVICES SHALL BE COORDINATED WITH THE POLICE DEPARTMENT.
14. THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO IMPLEMENT ADDITIONAL WORK ZONE CONTROL (i.e. MPT) MEASURES DURING CONSTRUCTION.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

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MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES (PAGE 2 OF 2)

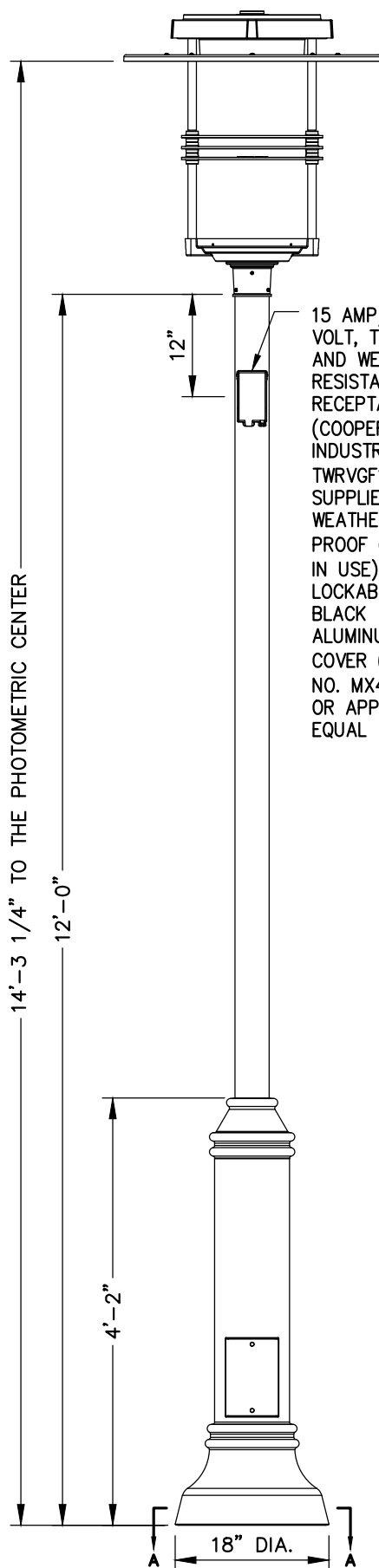
DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-9_MPT Notes.dwg



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SD-9



15 AMP/120 VOLT, TAMPER AND WEATHER RESISTANT GFCI RECEPTACLE (COOPER INDUSTRIES NO. TWRVGF15) SUPPLIED WITH WEATHER PROOF (WHILE IN USE) LOCKABLE BLACK ALUMINUM COVER (TAYMAC NO. MX4280) OR APPROVED EQUAL

LUMINAIRE SPECIFICATIONS

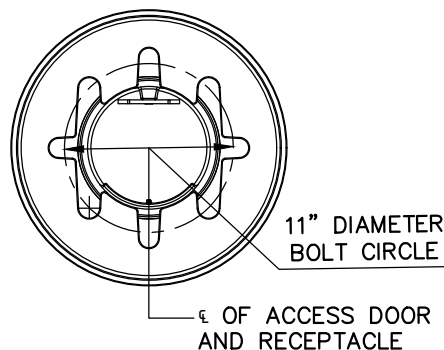
STYLE: ALTON LED DARK SKY LUMINAIRE
 HEIGHT: 33 1/8"
 WIDTH: 30" DIAMETER
 MATERIAL: CAST ALUMINUM ALLOY ANSI 356 PER ASTM B26-95
 GLOBE: LED GRADE FROSTED ARCYLIC PANEL
 FINISH: POWDER COAT - RIVER TEXTURE GLOSS BLACK
 LAMPING: 80 WATT LED
 VOLTAGE: ELECTRICALLY WIRE AT 120-277 VOLTS
 COLOR TEMP: 2700K (INCANDESCENT WHITE)
 OPTICAL SYSTEM: TYPE III DISTRIBUTION
 SURGE: 10kV
 MODIFIER: DARK SKY ALTON

CATALOG NO.: ALS-LE080-1VS29-30-CR3-YPLF

CAT. NO.	LED WATTAGE
LE030	30 WATTS
LE050	50 WATTS
LE070	70 WATTS
LE080	80 WATTS
LE090	90 WATTS

LAMP POST SPECIFICATIONS

STYLE: CENTER CITY
 HEIGHT: 12'-0"
 PHOTOMETRIC CENTER: 14'-3 1/4"
 BASE: 18" DIAMETER
 SHAFT: 3 1/2" SCH-40 ALUMINUM PIPE (4" OD)
 BASE: 6061-T6
 CAST ALUMINUM ALLOY ANSI 356 PER A.S.T.M. B26-95
 FINISH: POWDER COAT - RIVER TEXTURE GLOSS BLACK
 ACCESS DOOR: RECESSED NON-METALLIC - LOCATED IN BASE SECURED WITH HEX HEAD BOLTS
 GROUND PROVISIONS: DRILL AND TAP BASE PLATE OPPOSITE ACCESS DOOR TO ACCOMMODATE A 1/4"-20 GROUND LUG (GROUND STUD SUPPLIED BY OTHERS)
 ANCHOR BOLTS: (4) 3/4" DIA. X 24" LONG + 3" HOOK (FULLY GALVANIZED WITH 1 NUT AND 1 WASHER PER BOLT)
 BOLT PROJECTION: 3" REQUIRED
 TENON: 3" DIA. X 4" HIGH (TO ACCEPT LUMINAIRE)
 CATALOG NO. APSCTR-18-12.00-S3-TN3.00/4.00-GFWI-CU



SECTION A-A
BASE DETAIL

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE
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AND VILLAGE ENGINEER

DECORATIVE LIGHTING STANDARD (LUMINAIRE AND LAMP POST) (PAGE 1 OF 2)

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
 DRAWN BY: ARC, PE VOP SD-10_Decorative Lighting



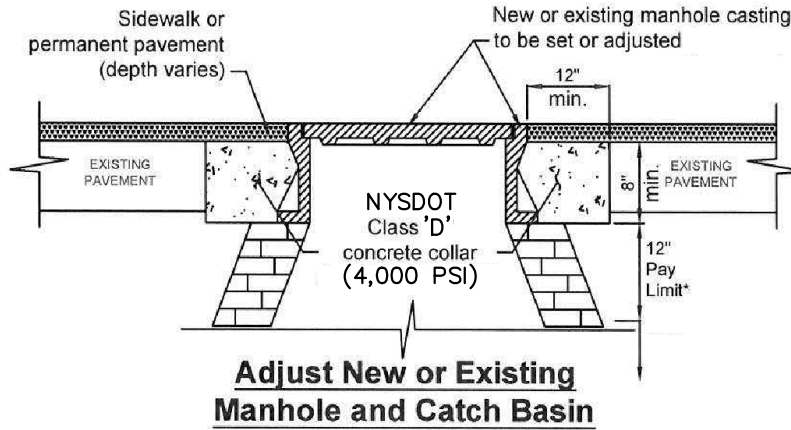
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 DATE: 10/25/2022
 REV: 06/15/2023
 REV: 08/05/2023

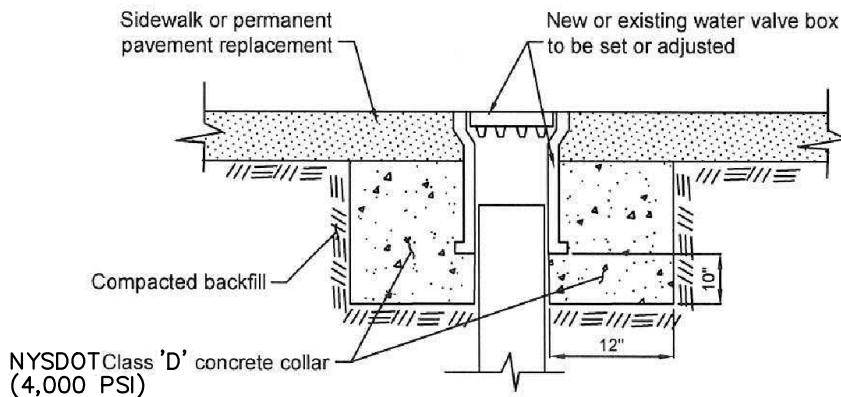
SD-10

NOTES:

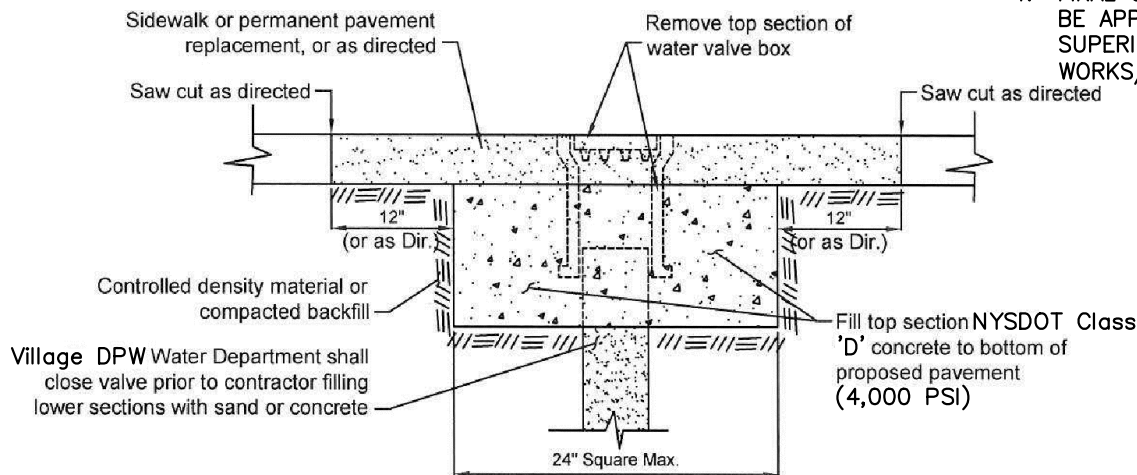
1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE AND HOT MIX ASPHALT (HMA) PAVEMENT SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 403 – HOT MIX ASPHALT (HMA) PAVEMENTS FOR MUNICIPALITIES, SECTION 501 – PORTLAND CEMENT CONCRETE – GENERAL, SECTION 608 – SIDEWALKS, DRIVEWAYS, BICYCLE PATHS AND VEGETATION CONTROL STRIPS, SECTION 623 – SCREENED GRAVEL, CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG AND SECTION 700 – MATERIALS AND MANUFACTURING OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED MAY 1, 2023, AS AMENDED.
2. PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 608.0101. CRUSHED STONE SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 623.12. CONTROLLED LOW STRENGTH (CLSM) SHALL CONFORM TO THE SPECIFICATIONS OF NYSDOT ITEM NO. 204.12.
3. ADJUSTMENT OF EXISTING OR NEW CATCH BASIN CASTINGS (i.e. FRAMES AND GRATES) SHALL BE PERFORMED IN A SIMILAR MANNER TO MANHOLE CASTING (i.e. FRAME AND COVER) ADJUSTMENTS.
4. FINAL CASTING ADJUSTMENT SHALL BE APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS/VILLAGE ENGINEER.



Scale: N.T.S.

**Set or Adjust New or Existing Water Valve Boxes**

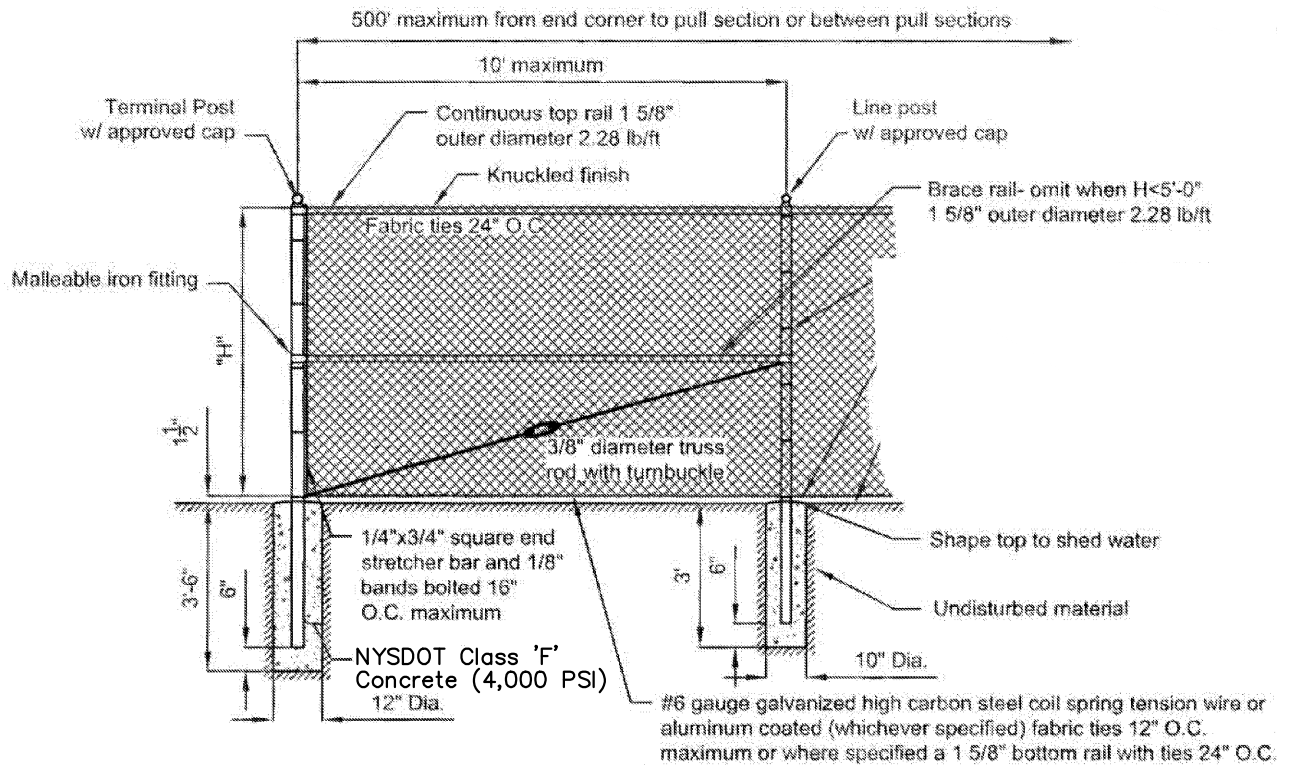
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**Abandon Existing Water Valve Boxes**

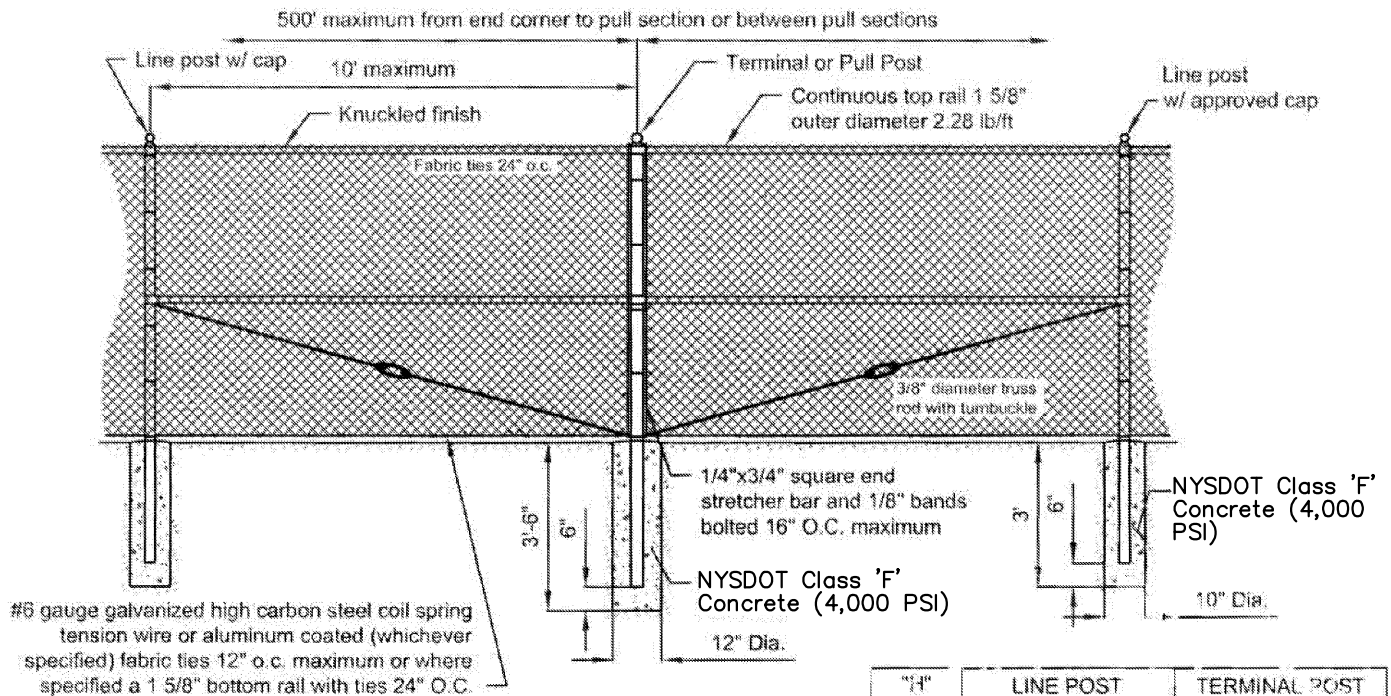
Scale: N.T.S.

VILLAGE OF PLEASANTVILLE
STANDARD CONSTRUCTION DETAILSPREPARED IN THE OFFICE OF THE
SUPERINTENDENT OF PUBLIC WORKS
AND VILLAGE ENGINEER**SET, ADJUST OR ABANDON
MANHOLE & CATCH BASIN CASTINGS
& WATER VALVE BOXES**DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-11_Set, Adjust or Abandon Castings & Water Valve Boxes.dwgVILLAGE OF PLEASANTVILLE
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DATE: 03/02/2023

SD-11



Corner or Terminal Section



Pull Section

Chain Link Fence

NOTES

1. Fence fabric to be 6 Gage, vinyl coated (BLACK), 2"x2" steel mesh.
2. All posts, rails, and accessories shall be vinyl coated (BLACK) per specifications.
3. Chain link fence shall include barbed wire only where specified.
4. Terminal posts shall consist of end, corner, angle, and pull posts.

"1" (i)	LINE POST See Note 2	TERMINAL POST See Note 2
5' or less	2" outer diameter 2.72 lb/ft	2 1/2" outer diameter 3.65 lb/ft
>5'	2 1/2" outer diameter 3.65 lb/ft	3" outer diameter 5.79 lb/ft

VILLAGE OF PLEASANTVILLE
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**CHAIN LINK FENCE
(BLACK VINYL COATED)**

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE
DRAWN BY: ARC, PE VOP SD-12_Chain Link Fence.dwg



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SD-12

