City of Salisbury
John "Jack" R. Heath, Mayor

CONSTRUCTION STANDARDS

Issued February 23, 2023

Revision Log:
12/28/18: Revised STD 600.07 Standard Bench
2/1/19: Revised STD 300.26 Combination Domestic Fire Service
2/1/19: Revised STD 300.29 Combination Domestic Fire Service Plan View
2/1/19: Revised STD 300.55 Standard Installation Fire Hydrant
2/1/19: Revised STD 300.56 Gate Valve Installation
2/28/23: Added STD 100.02 Bikeways-Sidewalk Guideline Chart
2/28/23: Added STD 100.05 Crosswalk and Stop Bar Placement
2/28/23: Added STD 100.06 Crosswalk and Stop Bar Placement 2/28/23:
Added STD 100.08 Color Coding for Curb Painting
2/28/23: Added STD 100.09 Monolithic Concrete Median Detail
2/28/23: Added STD 100.16 Typical Corner Curb Extension Placement Detail
2/28/23: Added STD 100.17 Typical Mid-Block Curb Extension Detail
2/28/23: Revised STD 200.11 Typical Local Street with Standard Curb & Gutter
2/28/23: Removed STD 200.13 Typical Section for 26' Local Street with Mountable Curb and Gutter
2/28/23: Removed STD 200.21 Typical Section for 30' Minor Collector Street with Standard Curb and Gutter
2/28/23: Removed STD 200.23 Typical Section for 30' Minor Collector Street with Mountable Curb and Gutter
2/28/23: Removed STD 200.35 Typical Section for 36' Major Collector Street with Standard Curb and Gutter
2/28/23: Revised STD 200.41 Typical Major Collector Street with Standard Curb & Gutter
2/28/23: Revised STD 200.61 Typical Arterial Street with Standard Curb & Gutter

Department of Infrastructure & Development
125 N. Division St., #202 Salisbury, MD 21801
410-548-3170 (fax) 410-548-3107
www.salisbury.md

TABLE OF CONTENTS
CONSTRUCTION STANDARDS

Latest revision 02-23-23

2/28/23: Revised STD 300.26 Combination Domestic Fire Service Domestic 4" or Greater Fire 4" or Greater
2/28/23: Revised STD 300.29 Configuration: Combination Domestic Fire Service "Plan Review"

TABLE OF CONTENTS
CONSTRUCTION STANDARDS

Latest revision 02-23-23

TABLE OF CONTENTS
CONSTRUCTION STANDARDS

Latest revision 02-23-23

TABLE OF CONTENTS
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Latest revision 02-23-23

City of Salisbury
John "Jack" R. Heath, Mayor

PREFACE

This book of "Construction Standards" has been prepared by the City of Salisbury – Department of Infrastructure and Development to provide Engineers, Contractors and Developers with a catalog of Construction Standard Details authorized by the City of Salisbury.

Any Standards previously issued by the City of Salisbury are herewith superseded as of the latest revision date shown on the pertinent Standard.

All Engineers, Land Surveyors, and Contractors involved with the construction of roadways and utilities authorized by the City of Salisbury should become thoroughly familiar with contents of this book.

All materials shall be new, standard production, and made in the United States of America unless otherwise approved as a substitute by the City of Salisbury before use of the material.

These Standards may be revised periodically to reflect changes in regulations and technology. Items may be added or deleted at the City's discretion. These Standards are not intended to cover all materials purchased, or construction performed by the City of Salisbury or its Contractors. The City of Salisbury reserves the right to default to the Maryland Department of Transportation State Highway Administration Standard Specifications for Construction and Materials Manual (Current Edition) for clarification and reference.

Any obvious errors found or any comments that you may have regarding these Standards are welcome and will be given due consideration. Please submit them to:

City of Salisbury
Department of Infrastructure and Development
125 North Division Street
Room 202
Salisbury, MD 21801- 4940
Telephone: 410-548-3170

Effective Date: 07-14-94
Latest Revision Date: 02-23-23

TARGET MOTOR VEHICLE SPEED	TARGET (MAX.) MOTOR VEHICLE VOLUME (ADT)	KEY OPERATIONAL CONSIDERATIONS	APPLICABLE STREET CROSS-SECTION DETAIL	MOTOR VEHICLE LANES	LANE WIDTHS*		SIDEWALKS REQUIRED**	MINIMUM BIKE FACILITIES REQUIRED***	IS ON-STREET PARKING ALLOWED?	ADDITIONAL FEATURES REQUIRED
<15 MPH	N/A	DEAD-END/CUL-DE-SAC****	LOCAL STREET	2	10	10	YES, UNLESS DESIGNED AS SHARED STREET	BIKE BOULEVARD	YES	IF STREET IS DESIGNED TO ACCOMODATE PARKING, CURB EXTENTIONS MUST BE PROVIDED AT FIRE HYDRANTS GUARANTEEING 20' CLEAR SPACE AT THOSE POINTS
		THRU STREET			8	10 MAX.				
20 MPH	<1,000-2,000	RESIDENTIAL	LOCAL STREET	2	10	10	YES	BIKE BOULEVARD OR RAISED BIKE LANE	YES	PARKING AND CURB EXTENSIONS SHALL BE PROVIDED. LONG STRAIGHTAWAYS WITH LIMITED PARKING USE SHALL PROVIDE VERTICAL TRAFFIC CALMING ELEMENTS PER NACTO GUIDELINES
	<1,500-3,000	COMMERCIAL								
25 MPH	<1,500-3,000	ANY	MINOR COLLECTOR STREET	2	10	10		RAISED BIKE LANE	YES	MIXED-USE STREETS WILL REQUIRE ADDITIONAL R.O.W. TO ACCOMODATE LARGER SIDEWALKS, FRONTAGE ZONES, AND FURNISHING ZONES. SEE CITY OF SALISBURY COMPLETE STREETS DESIGN GUIDELINES FOR MORE
	3,000-6,000				10	11		PROTECTED BIKE LANE		
	6,000-9,000	INFREQUENT LEFT TURNS	MAJOR COLLECTOR STREET	2	11	11				
		FREQUENT LEFT TURN CONFLICTS		3	11	11				
	9,000+	ANY		3	11	11				
>26 MPH	<9,000		ARTERIAL STREET	3	11	11				CITY MAY REQUIRE CENTER TURN LANE TO BE A MEDIAN WITH ROUNDABOUTS AT MAJOR INTERSECTIONS BASED ON CRASH HISTORY AND TURN CONFLICT FREQUENCY
	9,000+			5	11	11	YES, OR SHARED USE SIDE PATH	PROTECTED BIKE LANE OR SHARED USE SIDE PATH	NO	MIDDLE TURN LANE SHALL BE A PLANTED MEDIAN EXCEPT AT DESIGNATED TURNING POINTS. ROUNDABOUTS SHALL BE REQUIRED AT MAJOR INTERSECTIONS

* LANE WIDTH MAY BE INCREASED TO 12' IF ANTICIPATED TRUCK VOLUME EXCEEDS 9% OF ADT

** CITY RESERVES THE RIGHT TO INCREASE REQUIRED SIDEWALK WIDTH IN ORDER TO ACCOMMODATE ANTICIPATED PEDESTRIAN VOLUME.

*** CITY RESERVES THE RIGHT TO REQUIRE MORE PROTECTIVE BIKE FACILITIES AS NEEDED DUE TO ANTICIPATED BIKE VOLUMES, TURN CONFLICTS AND OTHER SAFETY HAZARDS. ALL BIKE FACILITIES SHALL BE DESIGNED AND INSTALLED PER THE NACTO URBAN BIKEWAY DESIGN GUIDE (LATEST EDITION) AND AASHTO GUIDELINES FOR THE DEVELOPMENT OF BICYCLE FACILITIES (LATEST EDITION) AND ANY OTHER GUIDELINES DEEMED APPLICABLE FOR THE SPECIFIC CIRCUMSTANCES PER THE CITY ENGINEER.

**** CUL-DE-SACS AND DEAD-ENDS ARE EXPLICITLY DISCOURAGED AND THE CITY MAY REQUIRE THE INSTALLATION OF SHARED-USE PATHS FROM SUCH STREET TYPES INTO THE LARGER GRID TO ENSURE SUCCESSFUL PED/BIKE ROUTES. CONNECTIVITY OF THE STREET GRID IS DESIRED. CONSTRUCTION OF SHARED STREETS IS HIGHLY ENCOURAGED IN MOST LOCAL STREET CONTEXTS.

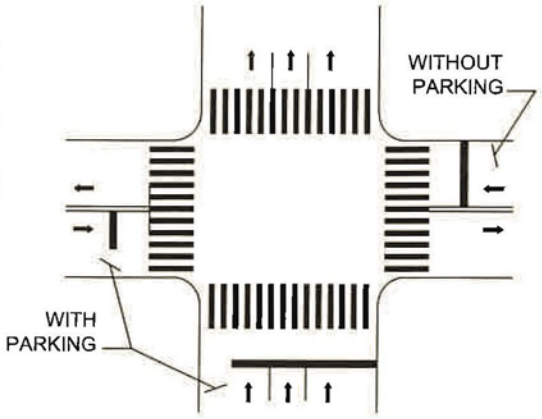
CITY OF SALISBURY
SALISBURY, MD

APPROVED
CITY ENGINEER
12-8-22
DATE

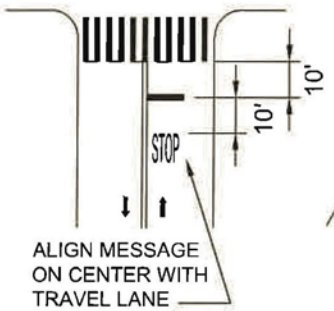
BIKEWAY-SIDEWALK GUIDELINE CHART

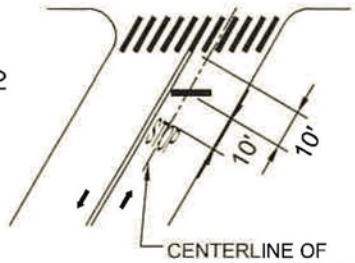
DATE 6/27/21
SCALE N.T.S.
DWG. NO. STD10002
STD. NO 100.02

TYPICAL CROSSWALK & STOP BARS

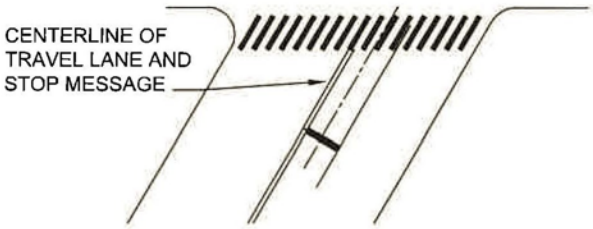


DETAIL A: TYPICAL STOP BAR & STOP MESSAGE PLACEMENT

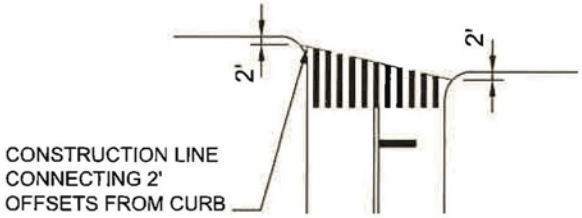




DETAIL B: OPTIONAL STAGGERED STOP BAR FOR CONSTRAINED TURNS



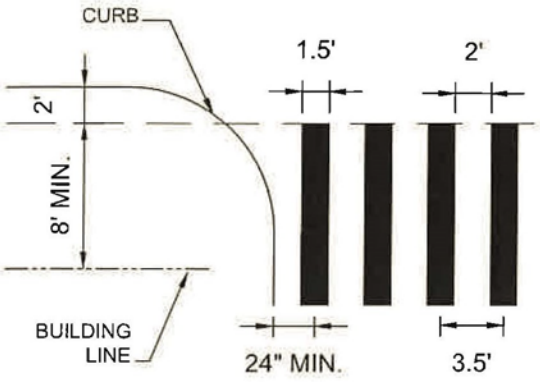
DETAIL C: TRAPEZOIDAL CROSSWALKS AT OFFSET CURBLINES

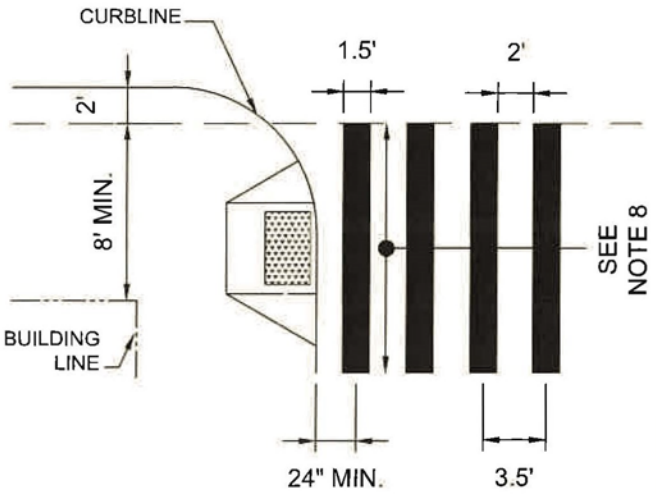


1. THE FRONT OF CROSSWALK SHALL BE SET BACK 2' FROM THE CURBLINE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR FOR ACCESSIBILITY (SEE NOTE 2).
2. AT CORNERS WITH APEX PEDESTRIAN RAMPS, THE LANDING AREA MUST FALL WITHIN THE CROSSWALKS, IN SOME CASES REQUIRING WIDENING OF THE CROSSWALK(S) OR MARKING AN EXTENSION AT THE CORNER.
3. CROSSWALKS SHALL BE INSTALLED AT ANY SIGNALIZED, STOP-CONTROLLED , OR YIELD-CONTROLLED LEG OF AN INTERSECTION, UNLESS OTHERWISE SPECIFIED.
4. STOP BARS SHALL BE INSTALLED IN ANY SIGNALIZED OR STOP CONTROLLED TRAVEL LANE ENTERING THE INTERSECTION
5. ALL STOP BARS SHALL BE 10' OFFSET FROM THE BACK OF THE CROSSWALK, PARALLEL TO THE BACK OF CROSSWALK, UNLESS OTHERWISE SPECIFIED.
6. STOP BARS MAY BE STAGGERED OR SETBACK TO ACCOMMODATE LARGE VEHICLE TURNS.
7. PRESENCE OR ABSENCE OF CURBSIDE PARKING SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. STOP BARS SHOULD EXTEND TO PARKING LANE STRIPE ON STREETS WITH STRIPED CURBSIDE PARKING. STOP BARS SHOULD EXTEND TO 8' FROM CURB, OR AS DETERMINED BY ENGINEER, ON STREETS WITH UNSTRIPED CURBSIDE PARKING.
8. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ON A PLAN OR ORDER, THE BACK OF CROSSWALK SHALL EXTEND TO WHICHEVER IS GREATEST OF THE FOLLOWING: THE BUILDING LINE (BACK OF SIDEWALK IF ADJACENT PARCEL IS UNDEVELOPED), THE FULL EXTENT OF THE CORRESPONDING CURB RAMP'S LANDING AREA, OR A MINIMUM WIDTH OF 8'.

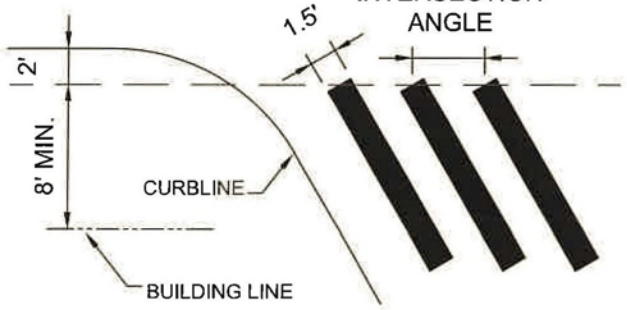
CITY OF SALISBURY SALISBURY, MD	APPROVED 12-8-22 DATE CITY ENGINEER	CROSSWALK AND STOP BAR PLACEMENT	DATE 6/27/21 SCALE N.T.S. DWG. NO. STD10005 STD. NO. 100.05

DETAIL D: CROSSWALK STRIPE SPACING AND LENGTH

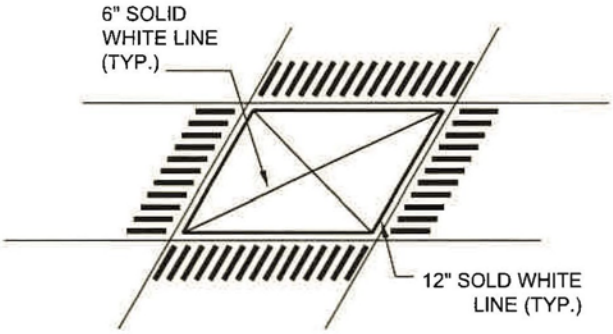




DEPENDENT ON INTERSECTION ANGLE



DO NOT BLOCK INTERSECTION MARKINGS



1. THE FRONT OF CROSSWALK SHALL BE SET BACK 2' FROM THE CURBLINE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR FOR ACCESSIBILITY (SEE NOTE 2).
2. AT CORNERS WITH APEX PEDESTRIAN RAMPS, THE LANDING AREA MUST FALL WITHIN THE CROSSWALKS, IN SOME CASES REQUIRING WIDENING OF THE CROSSWALK(S) OR MARKING AN EXTENSION AT THE CORNER.
3. CROSSWALKS SHALL BE INSTALLED AT ANY SIGNALIZED, STOP-CONTROLLED , OR YIELD-CONTROLLED LEG OF AN INTERSECTION, UNLESS OTHERWISE SPECIFIED.
4. STOP BARS SHALL BE INSTALLED IN ANY SIGNALIZED OR STOP CONTROLLED TRAVEL LANE ENTERING THE INTERSECTION
5. ALL STOP BARS SHALL BE 10' OFFSET FROM THE BACK OF THE CROSSWALK, PARALLEL TO THE BACK OF CROSSWALK, UNLESS OTHERWISE SPECIFIED.
6. STOP BARS MAY BE STAGGERED OR SETBACK TO ACCOMMODATE LARGE VEHICLE TURNS.
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8. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ON A PLAN OR ORDER, THE BACK OF CROSSWALK SHALL EXTEND TO A MINIMUM WIDTH OF 8'.

CITY OF SALISBURY SALISBURY, MD	APPROVED DATE 10-8-22 CITY ENGINEER	CROSSWALK AND STOP BAR PLACEMENT	DATE 6/27/21 SCALE NONE DWG. NO. STD10006 STD. NO. 100.06

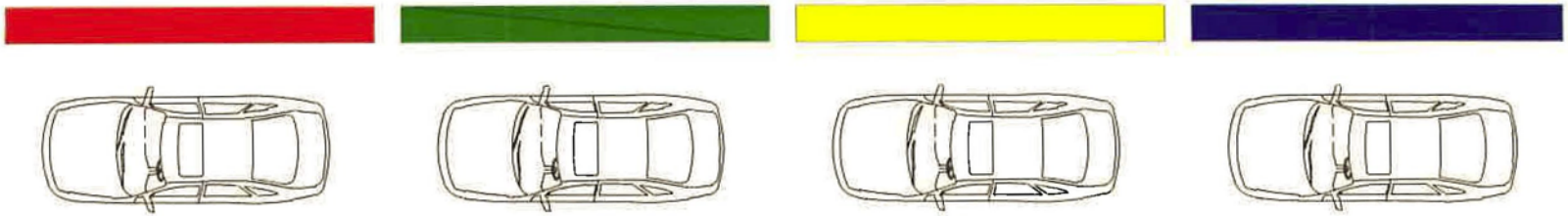
RED - No Parking

GREEN - Short Term Parking

YELLOW - Commercial Loading Zone

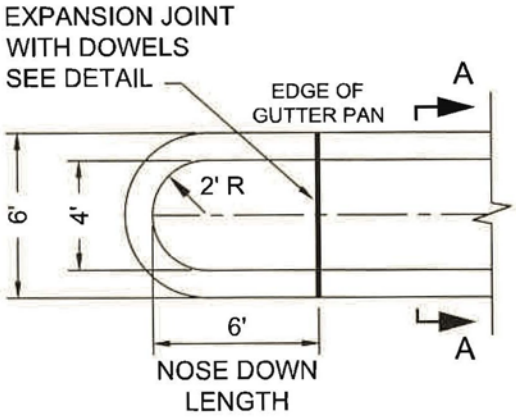
BLUE - Handicap Parking

NO COLOR - Signage indicates classification



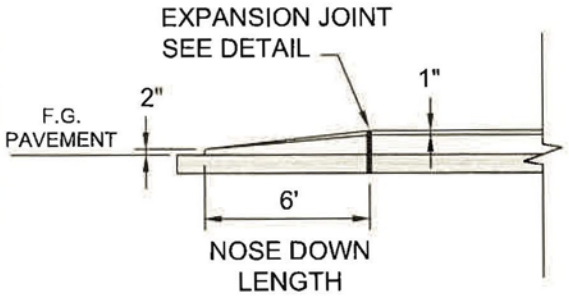
EXAMPLE OF CURB PAINTING

CITY OF SALISBURY SALISBURY, MD	APPROVED CITY ENGINEER 2-23-23 DATE	COLOR CODING FOR CURB PAINTING	DATE 6/27/21 SCALE N.T.S. DWG. NO. STD10008 STD. NO 100.08



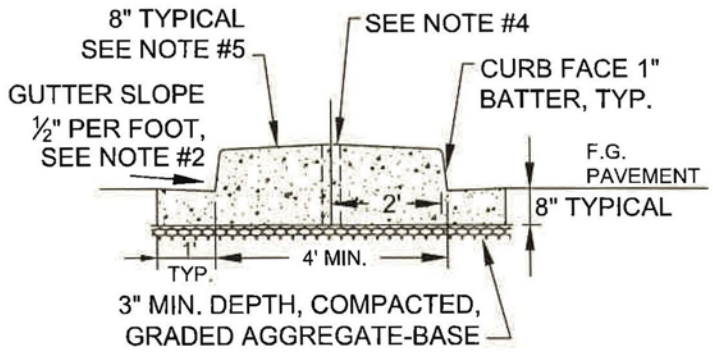
CONCRETE MEDIAN NOSE DOWN

PLAN VIEW



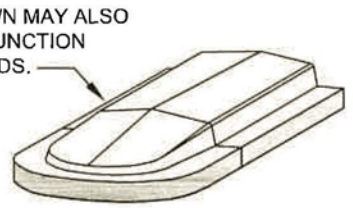
NOSE DOWN AT APPROACH END

PROFILE VIEW



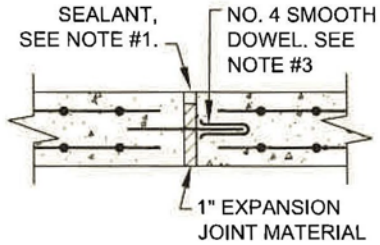
8" CURB & GUTTER MONOLITHIC
CONCRETE MEDIAN SECTION AA

NOT TO SCALE



CONCRETE NOSE DOWN

ISOMETRIC VIEW

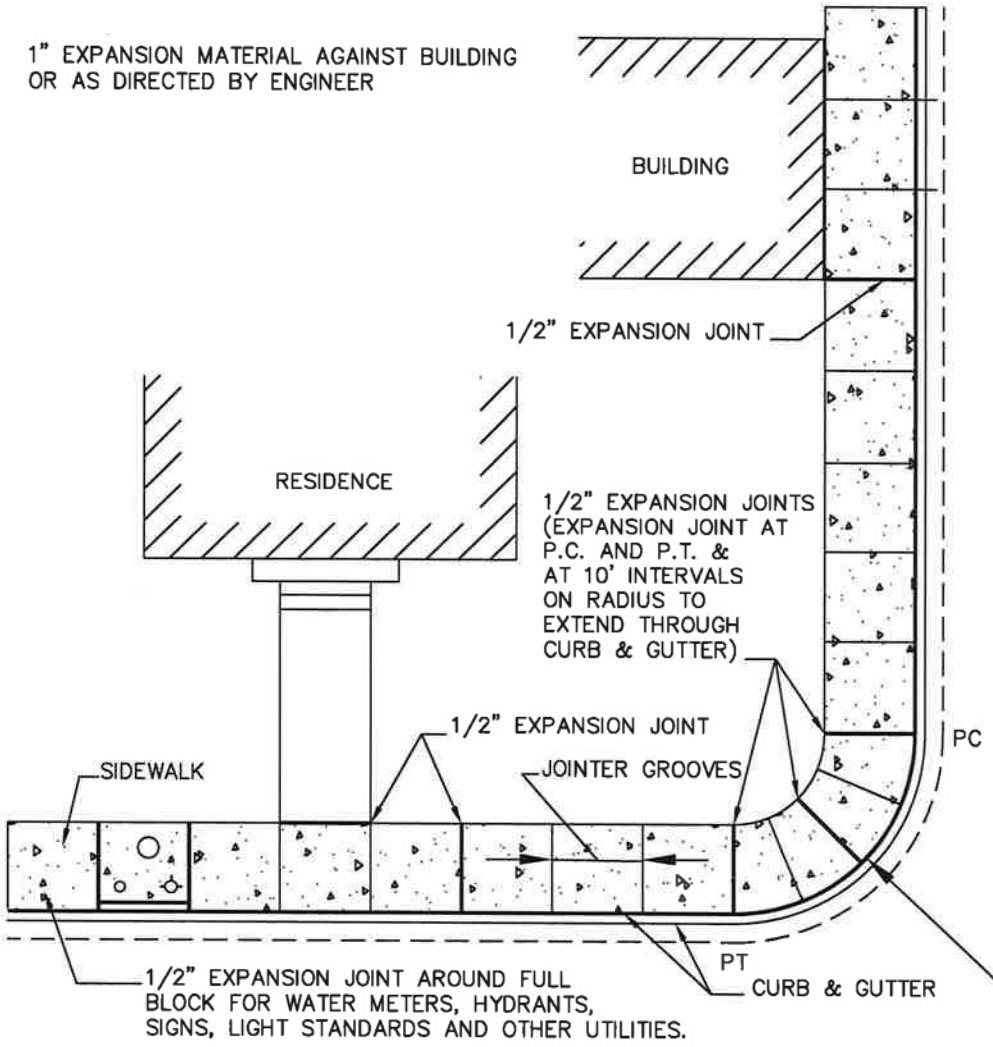


EXPANSION JOINT DETAIL

NOTES

1. ALL CONCRETE FOR MONOLITHIC CONCRETE MEDIAN SHALL BE MD DEPT. OF TRANS. S.H.A. MIX NO. 3 WITH A 28 DAY COMPRESSIVE STRENGTH OF 3,500 P.S.I., AND SHALL HAVE AIR ENTRAINMENT OF 6%. ALL EXPOSED SURFACES SHALL HAVE A BROOM FINISH. SAW CUT JOINTS WILL BE INSTALLED AT 10' MAXIMUM INTERVALS AND 1" EXPANSION JOINTS AT 40' MAXIMUM INTERVALS. 1" MINIMUM RECYCLE TIRE RUBBER EXPANSION SHALL BE POSITIONED SLIGHTLY DEPRESSED FROM FLUSH, BUT NO MORE THAN 3/16" FROM FLUSH WITH SURFACE. SAW CUT JOINTS SHALL BE FILLED NO MORE THAN 24 HOURS AFTER CUT WITH SIKA TWO-PART ELASTOMERIC SEALANT OR APPROVED EQUIVALENT.
2. THE GUTTER PAN SLOPE SHALL BE 1/2" PER FOOT EXCEPT WHERE PAVEMENT SLOPES DIRECT WATER AWAY FROM THE MEDIAN, THEN THE GUTTER PAN PORTION OF MEDIAN ON THE HIGH SIDE OF THE STREET SHALL SLOPE TO MATCH THE ADJACENT PAVEMENT. THE CURB PORTION AND THE GUTTER PAN PORTION OF ALL MEDIAN SHALL BE PLACED MONOLITHIC.
3. 1" EXPANSION JOINTS SHALL RECEIVE 12" LONG NO. 4 SMOOTH DOWELS AT MID-DEPTH IN THE MEDIAN AT 12" OC..C. WITH A GREASED CAP ON ONE END, WITH 5" OF DOWEL ON EITHER SIDE OF THE JOINT.
4. INSTALL 4" Ø SCH 40 PVC SLEEVES FOR SIGN POSTS AT LOCATIONS DIRECTED BY THE CITY ENGINEER IN THE CENTER OF THE MEDIAN. SLEEVES SHALL BE 18" IN LENGTH, FLUSH WITH THE TOP SURFACE AND PLUMB.
5. 6" CURB FACE IN AREAS OF PARKING MAY BE USED WITH CITY ENGINEER APPROVAL. ALSO, THE GUTTER PAN MAY BE ELIMINATED DEPENDING ON DRAINAGE, BUT ONLY WITH CITY ENGINEER APPROVAL.

CITY OF SALISBURY SALISBURY, MD	APPROVED CITY ENGINEER 12-8-22 DATE	MONOLITHIC CONCRETE MEDIAN DETAIL	DATE 9/06/21 SCALE N.T.S. DWG. NO. STD10009 STD. NO 100.09



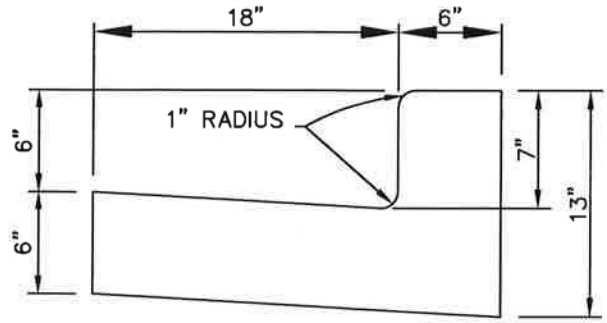
NOTES

1. ALL EXPANSION MATERIAL SHALL BE OF A NON-EXTRUDING TYPE CONFORMING TO A.S.T.M. SPECIFICATION DESIGNATION D-544.
2. ALL EXPANSION JOINTS TO BE 1/2" WIDE X FULL THICKNESS OF CONCRETE UNLESS OTHERWISE SHOWN.
3. EXPANSION JOINTS SHALL BE PLACED AT 20' INTERVALS (MAX.) RADIAL JOINTS AT STREET. RETURNS SHALL BE PLACED EVERY 10' OR AS DIRECTED BY ENGINEER.
4. ALL JOINTS TO BE NEATLY TRIMMED AND PLACED SO AS TO BE 1/8" BELOW FINISHED SURFACE.
5. EXPANSION JOINTS SHALL BE PLACED IN ALL LOCATIONS SHOWN AND AS DIRECTED BY ENGINEER.
6. WHERE CURB AND SIDEWALK ONLY IS POURED, EXPANSION JOINTS SHALL EXTEND COMPLETELY THROUGH CURB.
7. NO ADDITIONAL PAYMENT FOR EXPANSION JOINTS SHALL BE MADE. THIS MUST BE INCLUDED IN PRICE BID FOR CURB, GUTTER, AND SIDEWALK.

CONCRETE WORKMANSHIP

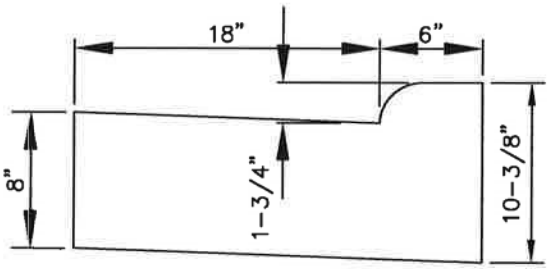
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda H Pollack CITY ENGINEER	CURB, GUTTER, AND SIDEWALK EXPANSION JOINTS	DATE 1/13/77 SCALE N.T.S. DWG NO. STD10010 STD. NO 100.10



A

STANDARD CURB & GUTTER



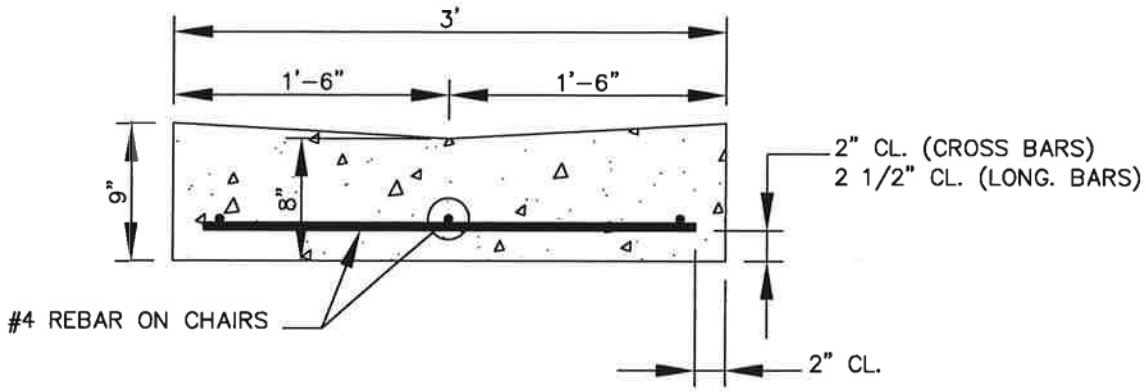
B

STANDARD CURB & GUTTER IN DRIVEWAYS

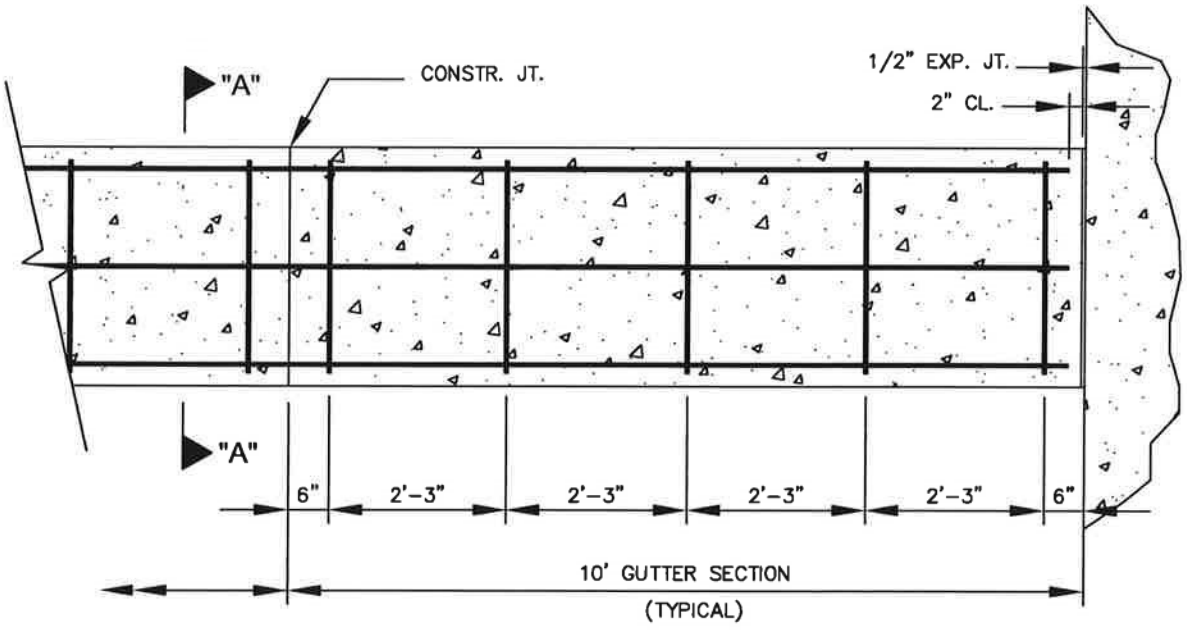
CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD DETAILS FOR CURB & GUTTER	DATE 3/16/95 SCALE NONE DWG. NO. STD10011 STD. NO. 100.11



SECTION "A-A"



PLAN

CONCRETE WORKMANSHIP

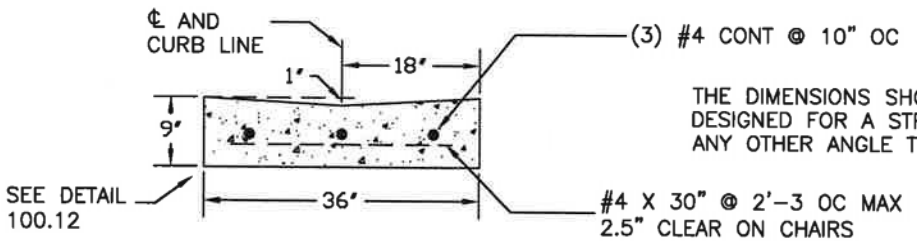
UNLESS OTHERWISE SPECIFIED, CONCRETE WORKMANSHIP SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS– CONCRETE SECTION IN THE "CONSTRUCTION & MATERIALS SPECIFICATIONS FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD DETAIL FOR VEE-GUTTER CONSTRUCTION	DATE 7/13/05 SCALE NTS DWG. NO. STD10012 STD. NO. 100.12

CITY OF SALISBURY
SALISBURY, MD

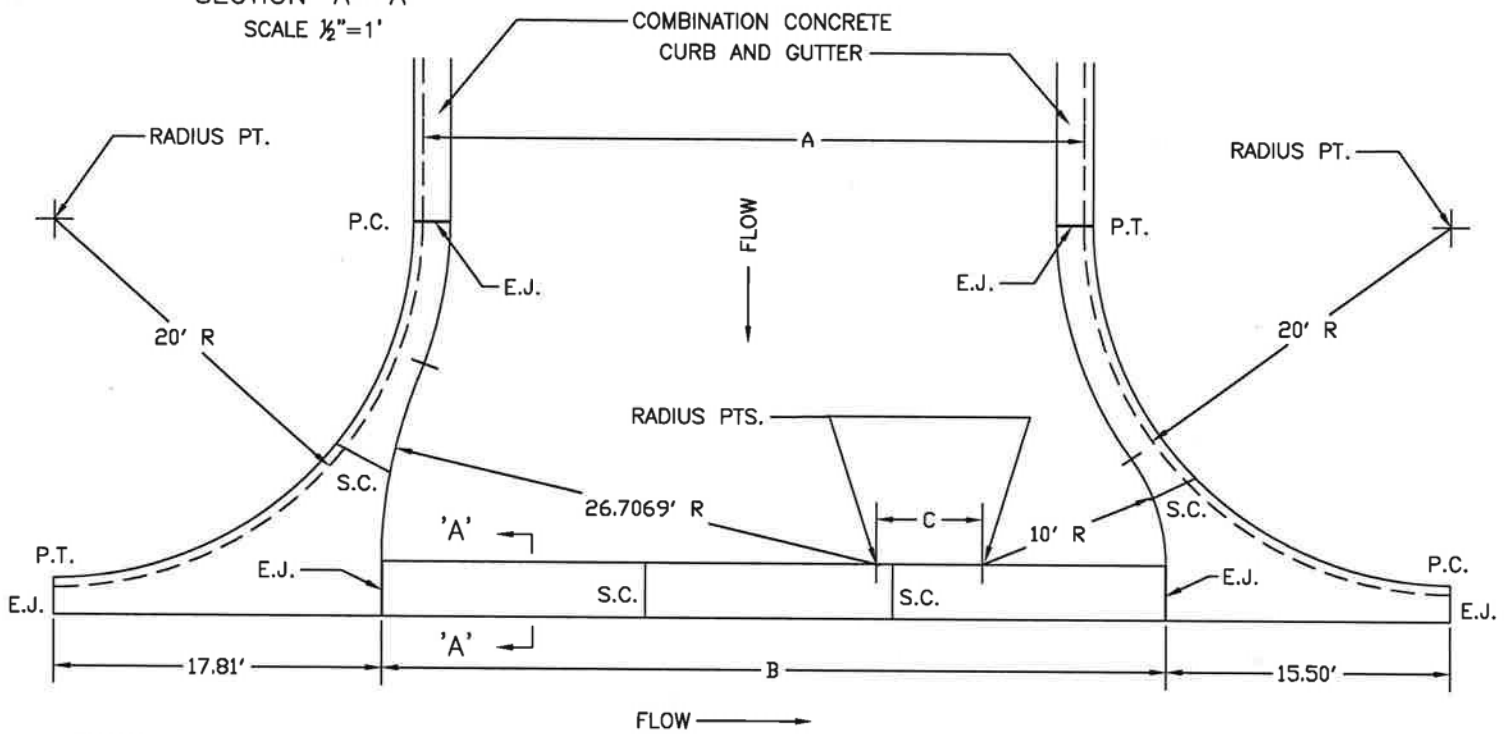
APPROVED
CITY ENGINEER
1/2/18
DATE

CONCRETE VALLEY GUTTER



SECTION 'A'–'A'
SCALE ½"=1'

THE DIMENSIONS SHOWN ON THIS TYPICAL INTERSECTION ARE DESIGNED FOR A STREET INTERSECTION CONSTRUCTED AT 90°. AT ANY OTHER ANGLE THE DIMENSIONS WILL CHANGE ACCORDINGLY.



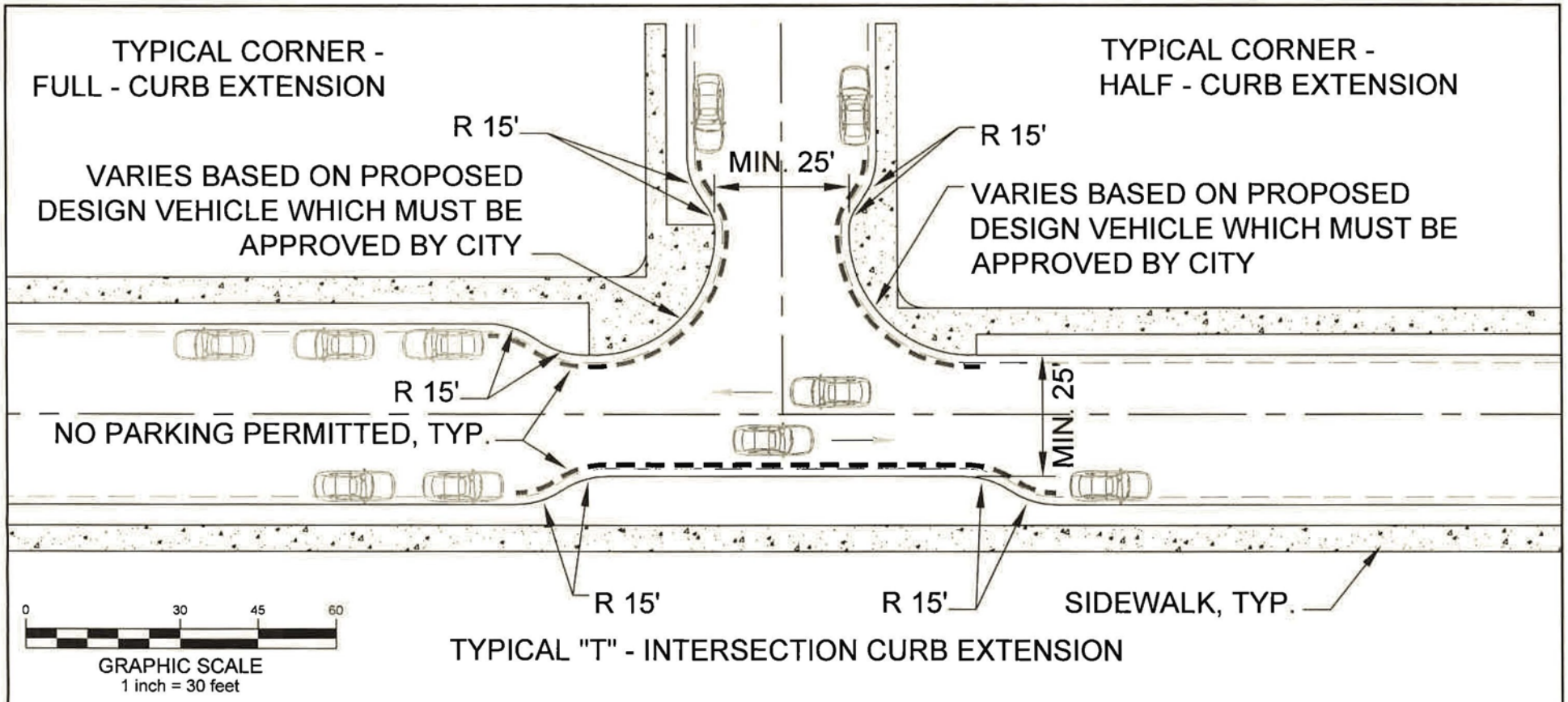
PLAN VIEW

NOTES:

1. CONCRETE – MD. S.H.A. MIX NO.2
2. FINISH – LIGHT TO MEDIUM BROOM FINISH
3. E.J. = EXPANSION JOINT WITH PREFORMED JOINT FILLER (FULL DEPTH OF CONCRETE) BITUMINOUS FIBER TYPE – AASHTO M 213
4. CONTROL JOINTS AT 10' O.C. MIN. IN VALLEY GUTTER AND CURB & GUTTER.
5. S.C. = SAW CUT BEFORE CURING 1/3 DEPTH
6. SEE CITY OF SALIBURY STANDARD 100.12 FOR VALLEY GUTTER DESIGN

A	B	C
26'	32.69'	-4'
30'	36.69'	0'
36'	42.69'	6'
40'	46.69'	10'

DATE 03/28/12
SCALE N.T.S.
DWG. NO. STD10014
STD. NO. 100.14

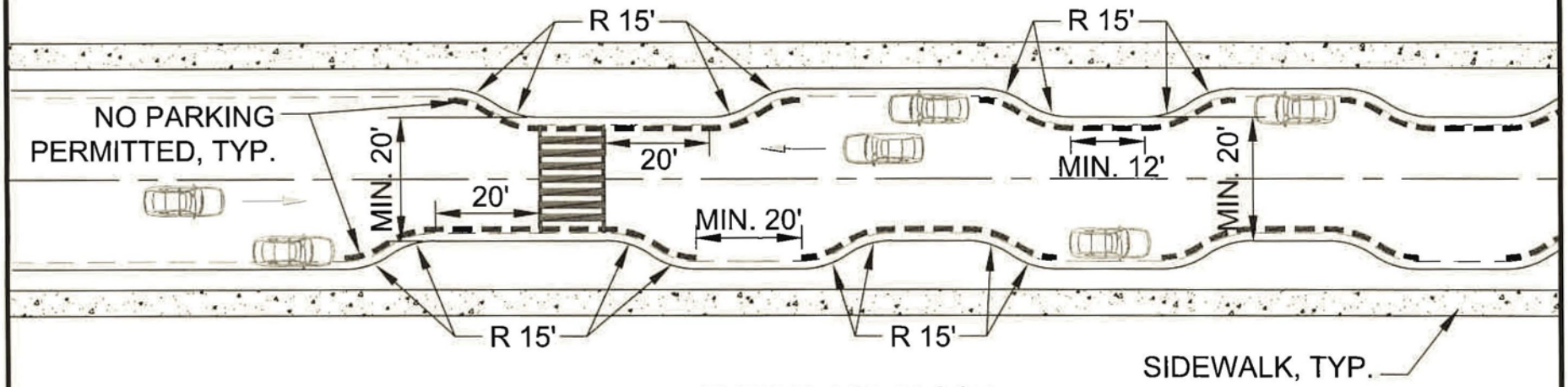


TYPICAL "T" - INTERSECTION CURB EXTENSION

- CURB EXTENSION WIDTH IS TYPICALLY ONE FOOT LESS THAN THE WIDTH OF THE PARKING LANE. MINIMUM CURB EXTENSION LENGTH IS TYPICALLY EQUAL TO THE FULL WIDTH OF THE CROSSWALK, HOWEVER IT CAN BE LONGER WHEN APPROPRIATE OR NECESSARY.
- MUST ACCOMMODATE DESIGN VEHICLE; WHEN A CURB EXTENSION CONFLICTS WITH DESIGN VEHICLE TURNING MOVEMENTS, THE CURB EXTENSION SHOULD BE REDUCED IN SIZE RATHER THAN ELIMINATED WHEREVER POSSIBLE.
- AT CROSSINGS THAT HAVE LOW PEDESTRIAN VISIBILITY, CURB EXTENSION SHOULD BE LONG ENOUGH TO "DAYLIGHT" THE CROSSING, I.E. PROVIDE OPEN SIGHT LINES TO THE PEDESTRIAN CROSSING FOR APPROACHING MOTORISTS.
- CURB EXTENSIONS MUST BE DESIGNED SO AS TO MAINTAIN DRAINAGE OF STORM WATER FROM THE GUTTER AND NOT CAUSE PONDING; DEPENDING ON SITE SPECIFIC GRADING CONDITIONS. THIS MIGHT INCLUDE PROPERLY LOCATING OR RELOCATING CATCH BASINS OR UTILIZING DESIGN TREATMENTS THAT CHANNEL WATER THROUGH, AROUND OR IN BETWEEN CURB EXTENSION AND THE CURBLINE.
- WHEN A CURB EXTENSION IS USED ADJACENT TO A FIRE HYDRANT, THE LENGTH OF THE CURB EXTENSION SHOULD BE EQUAL TO OR GREATER THAT THE NO PARKING ZONE (TYPICALLY 20 FEET IN EITHER DIRECTION) AND THE HYDRANT SHOULD BE MOVED ONTO THE CURB EXTENSION.
- PAVING ON A CURB EXTENSION SHOULD MATCH THAT OF THE SURROUNDING SIDEWALKS.

CITY OF SALISBURY SALISBURY, MD	APPROVED CITY ENGINEER 2-23-23 DATE	TYPICAL CORNER CURB EXTENSION PLACEMENT DETAIL	DATE 9/06/21 SCALE 1"=30' DWG. NO. STD10016 STD. NO 100.16

TYPICAL MID-BLOCK
CURB EXTENSION -
CROSSWALKS

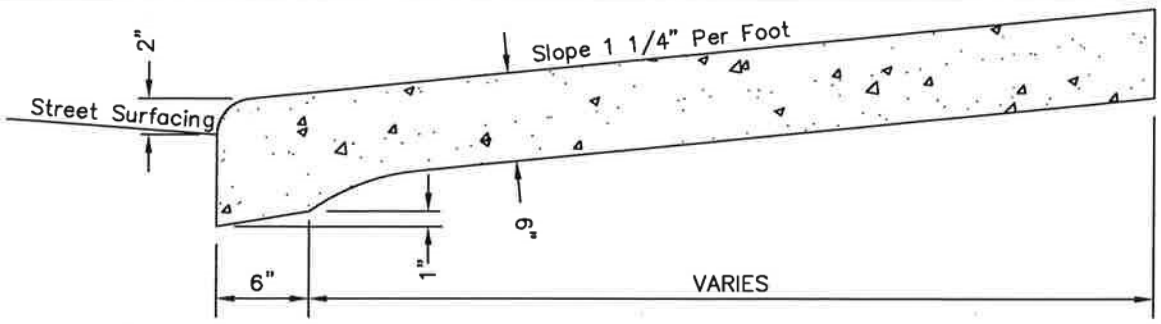


TYPICAL MID-BLOCK
CURB EXTENSION

GRAPHIC SCALE
1 inch = 30 feet

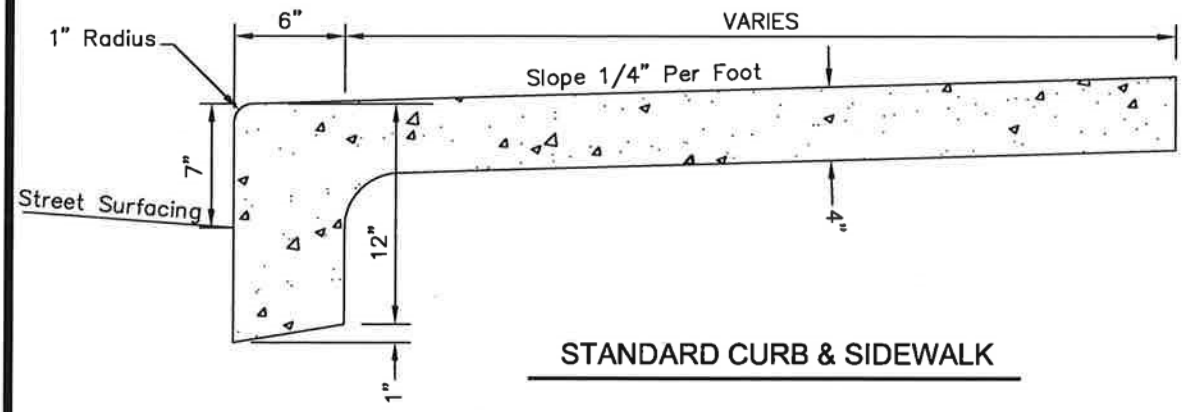
- CURB EXTENSION WIDTH IS TYPICALLY ONE FOOT LESS THAN THE WIDTH OF THE PARKING LANE. MINIMUM CURB EXTENSION LENGTH IS TYPICALLY EQUAL TO THE FULL WIDTH OF THE CROSSWALK, HOWEVER IT CAN BE LONGER WHEN APPROPRIATE OR NECESSARY.
- MUST ACCOMMODATE DESIGN VEHICLE; WHEN A CURB EXTENSION CONFLICTS WITH DESIGN VEHICLE TURNING MOVEMENTS, THE CURB EXTENSION SHOULD BE REDUCED IN SIZE RATHER THAN ELIMINATED WHEREVER POSSIBLE.
- AT CROSSINGS THAT HAVE LOW PEDESTRIAN VISIBILITY, CURB EXTENSION SHOULD BE LONG ENOUGH TO "DAYLIGHT" THE CROSSING, I.E. PROVIDE OPEN SIGHT LINES TO THE PEDESTRIAN CROSSING FOR APPROACHING MOTORISTS.
- CURB EXTENSIONS MUST BE DESIGNED SO AS TO MAINTAIN DRAINAGE OF STORM WATER FROM THE GUTTER AND NOT CAUSE PONDING; DEPENDING ON SITE SPECIFIC GRADING CONDITIONS. THIS MIGHT INCLUDE PROPERLY LOCATING OR RELOCATING CATCH BASINS OR UTILIZING DESIGN TREATMENTS THAT CHANNEL WATER THROUGH, AROUND OR IN BETWEEN CURB EXTENSION AND THE CURBLINE.
- WHEN A CURB EXTENSION IS USED ADJACENT TO A FIRE HYDRANT, THE LENGTH OF THE CURB EXTENSION SHOULD BE EQUAL TO OR GREATER THAT THE NO PARKING ZONE (TYPICALLY 20 FEET IN EITHER DIRECTION) AND THE HYDRANT SHOULD BE MOVED ONTO THE CURB EXTENSION.
- PAVING ON A CURB EXTENSION SHOULD MATCH THAT OF THE SURROUNDING SIDEWALKS.

CITY OF SALISBURY SALISBURY, MD	APPROVED CITY ENGINEER 12-8-22 DATE	TYPICAL MID-BLOCK CURB EXTENSION PLACEMENT DETAIL	DATE 9/06/21 SCALE 1"=30' DWG. NO. STD10017 STD. NO 100.17



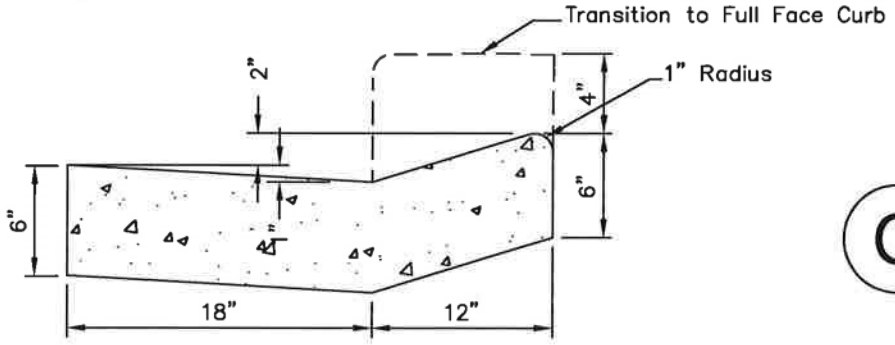
A

STANDARD CURB & SIDEWALK IN DRIVEWAYS



B

STANDARD CURB & SIDEWALK



C

STANDARD MOUNTABLE CURB & GUTTER

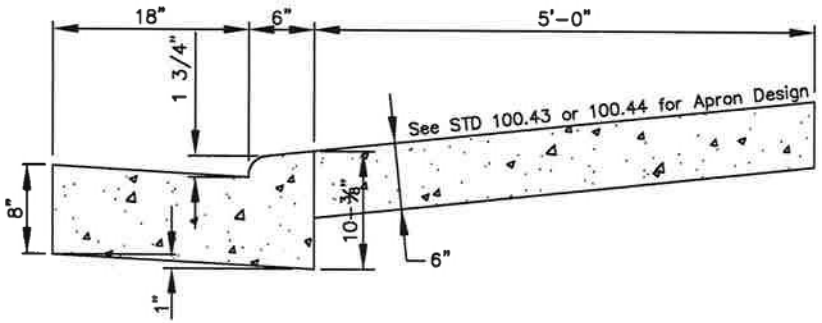
CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

REVISED: 04/03/17

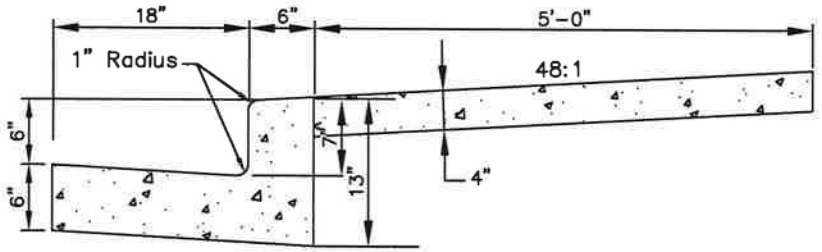
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD DETAILS	DATE 5/22/78 SCALE NONE DWG. NO. STD10020 STD. NO. 100.20

A



STANDARD CURB & GUTTER AND SIDEWALK IN DRIVEWAYS

B



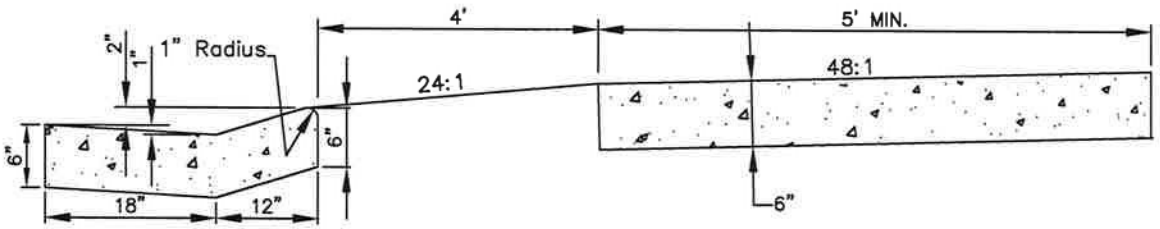
STANDARD CURB & GUTTER AND SIDEWALK

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

NOTE: 6" OF CRUSHED STONE GAB WILL BE PLACED UNDER THE CURB AND GUTTER.

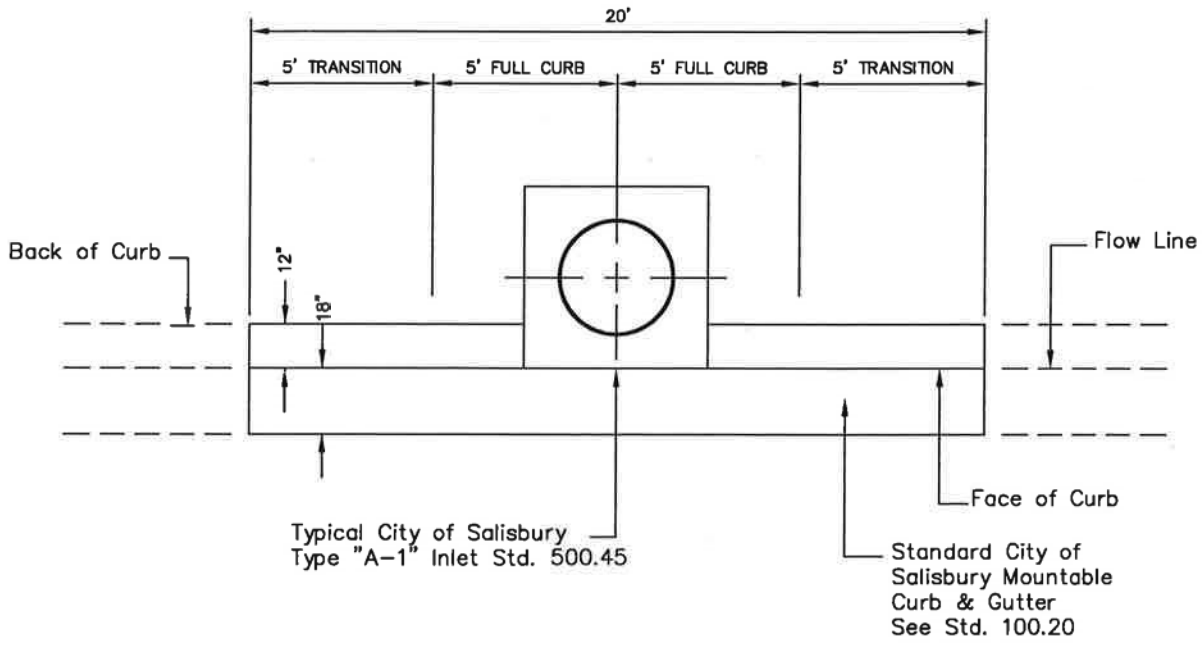
C

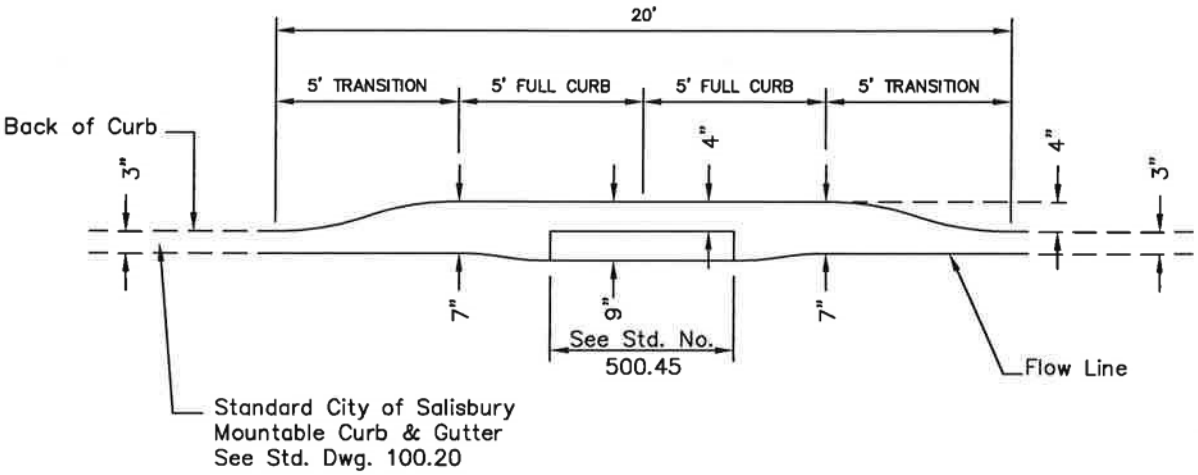


MOUNTABLE CURB & GUTTER, GRASS PLOT AND SIDEWALK

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD DETAILS FOR CURB & GUTTER AND SIDEWALK CONSTRUCTION	DATE 1/09/53 SCALE NONE DWG NO. STD10025 STD. NO 100.25

TOP VIEW



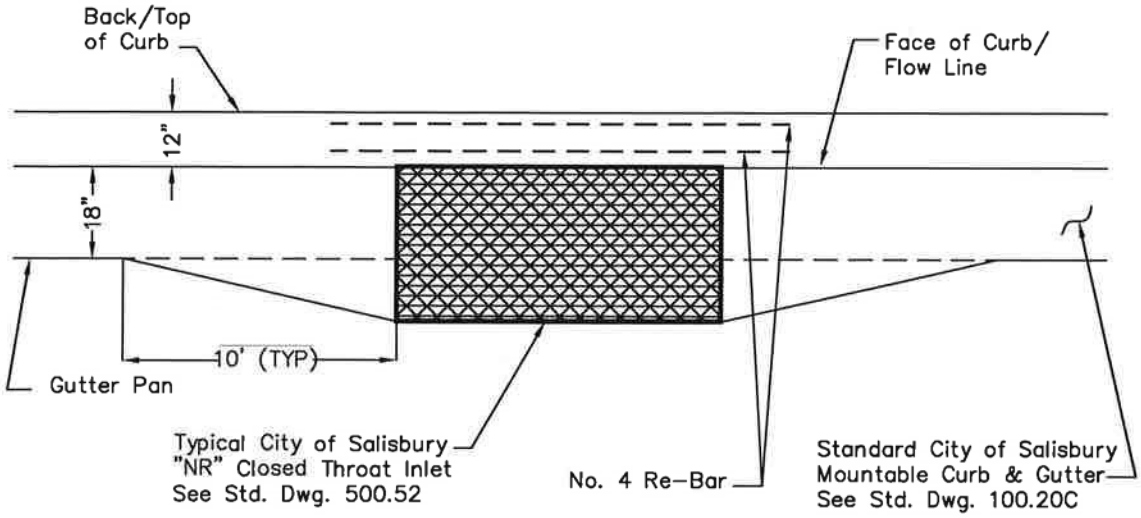


FRONT VIEW

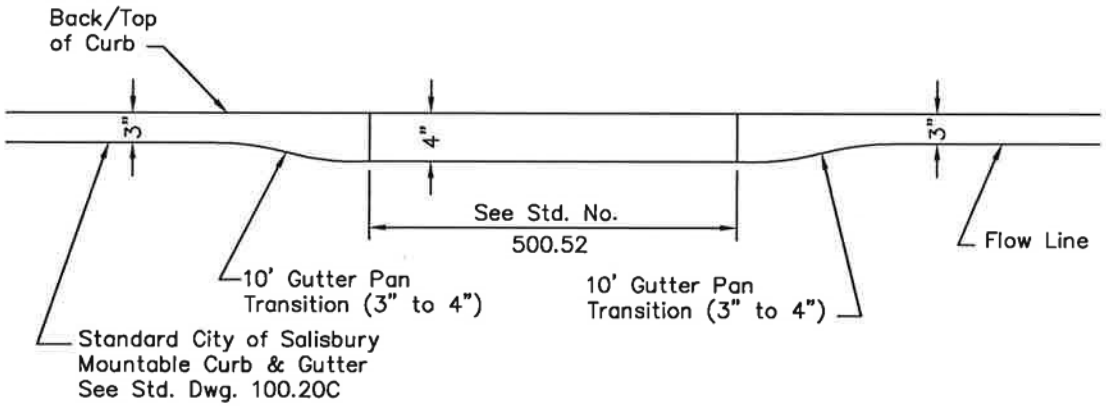
CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	TYPICAL MOUNTABLE CURB INLET DETAIL IN LOW POINT OF STREET	DATE 8/18/77 SCALE NONE DWG. NO. STD10030 STD. NO. 100.30



PLAN VIEW



FRONT VIEW

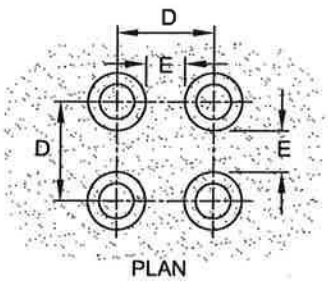
CONCRETE WORKMANSHIP

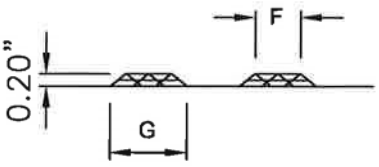
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Black CITY ENGINEER	TYPICAL MOUNTABLE CURB DETAIL USING "NR" CLOSED-THROAT INLET	DATE 7/12/90 SCALE NONE DWG. NO. STD10035 STD. NO. 100.35

MAT DETAILS

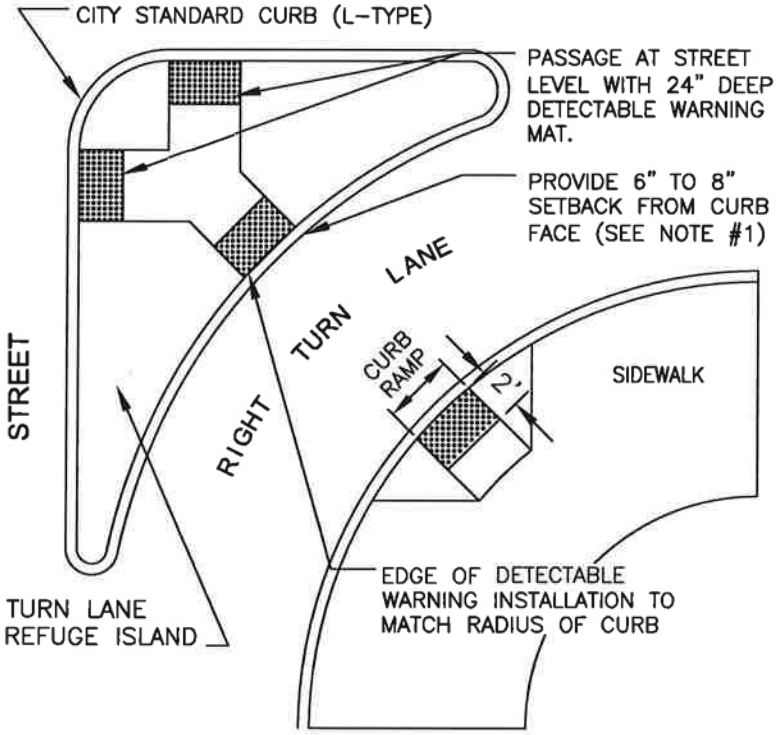
SEE PLACEMENT GUIDELINES BELOW



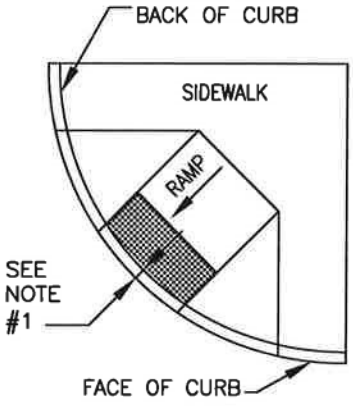


	MIN.	MAX.
D	1.60"	2.40"
E	0.65"	1.50"
F	0.45"	0.60"
G	0.90"	1.20"

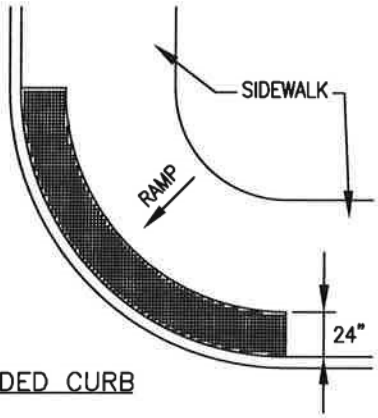
PLACEMENT GUIDELINES



REFUGE ISLAND



SHARED CURB RAMP

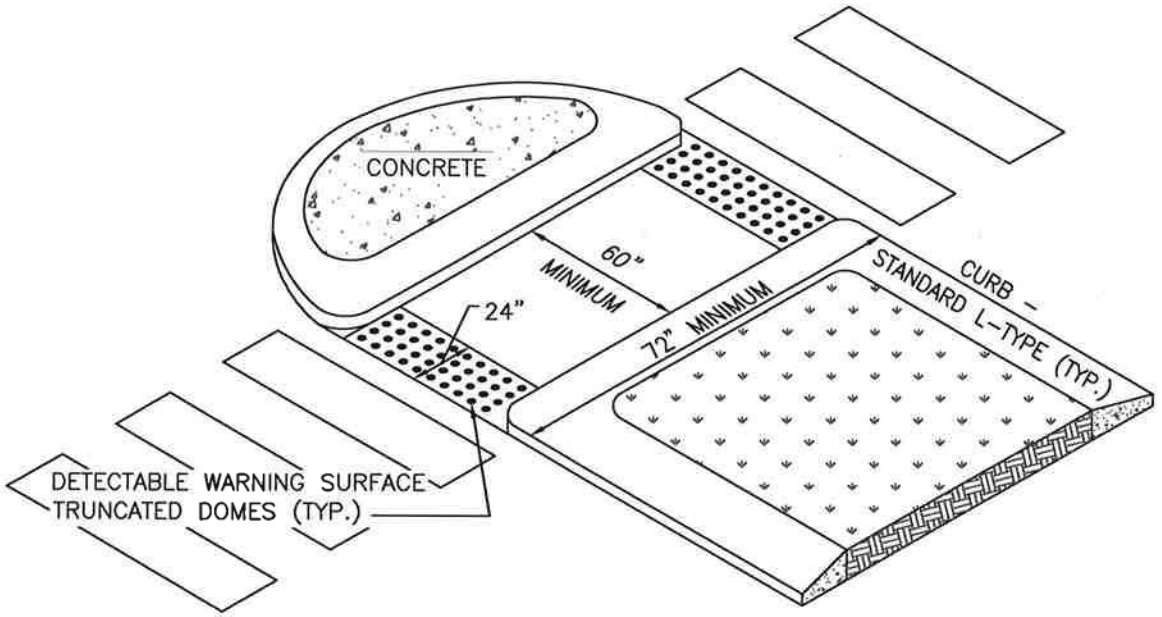


BLENDED CURB

NOTES

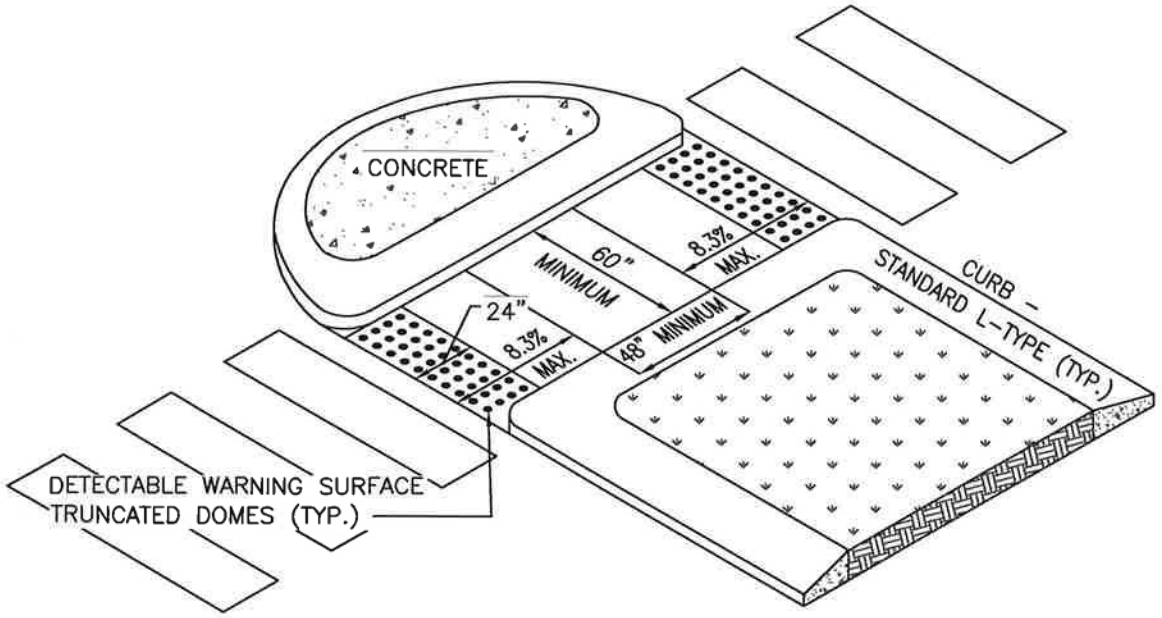
1. THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 TO 8 INCHES FROM THE FACE OF CURB.
2. FOR SKEWED APPLICATIONS DETECTABLE WARNING SHALL BE PLACED SUCH THAT THE DOMES CLOSEST TO THE BACK OF CURB ARE NO LESS THAN 0.5" AND NO MORE THAN 3.0" FROM THE BACK OF CURB. TRUNCATED DOME SURFACES SHALL BE FABRICATED TO PROVIDE FULL DOMES ONLY.
3. DETECTABLE WARNING SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 611 OF THE SPECIFICATIONS.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	DETECTABLE WARNING GUIDELINES & DETAILS	DATE 05/27/04 SCALE NONE DWG. NO. STD10037 STD. NO. 100.37



CUT–THROUGH MEDIAN

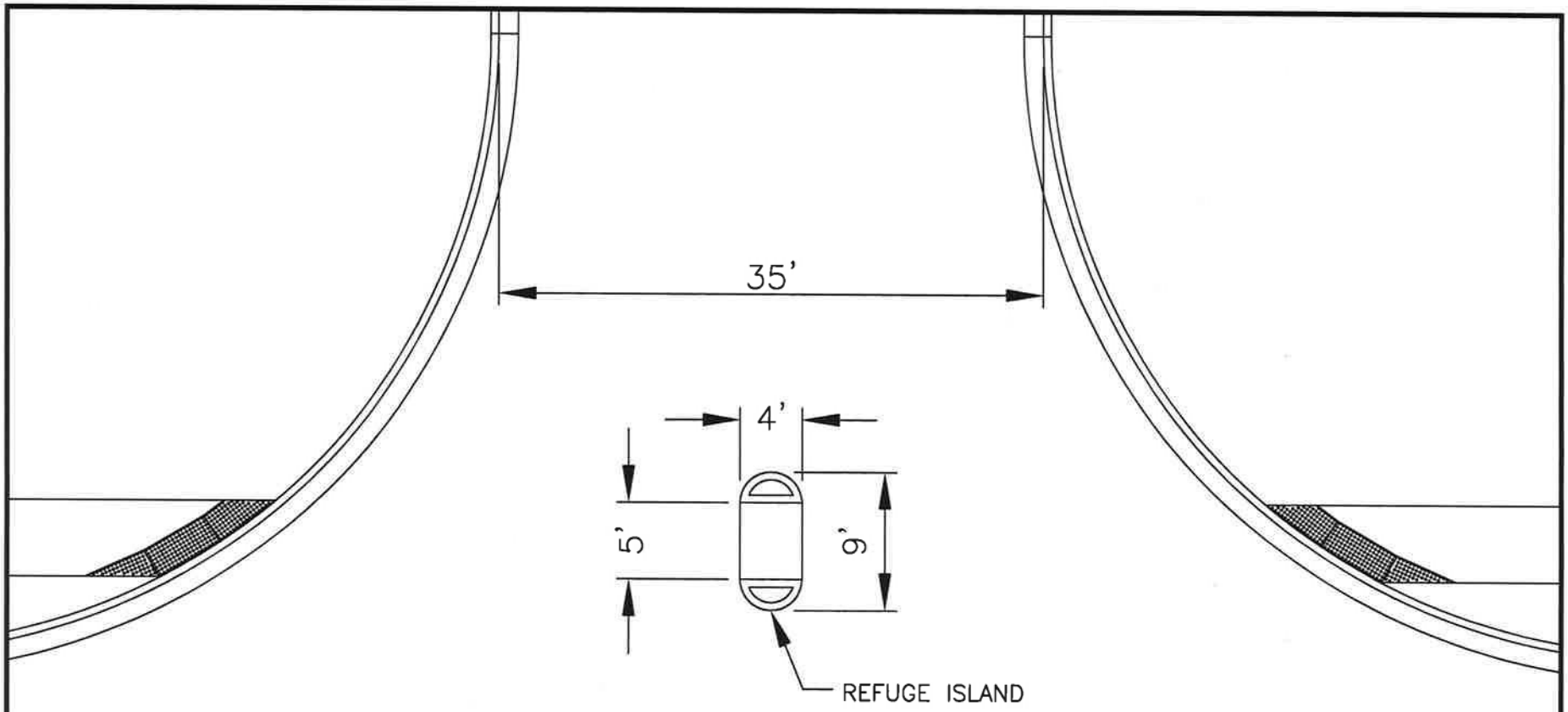
LESS THAN 6' WIDE DOES NOT
REQUIRE TRUNCATED DOMES



RAMPED MEDIAN

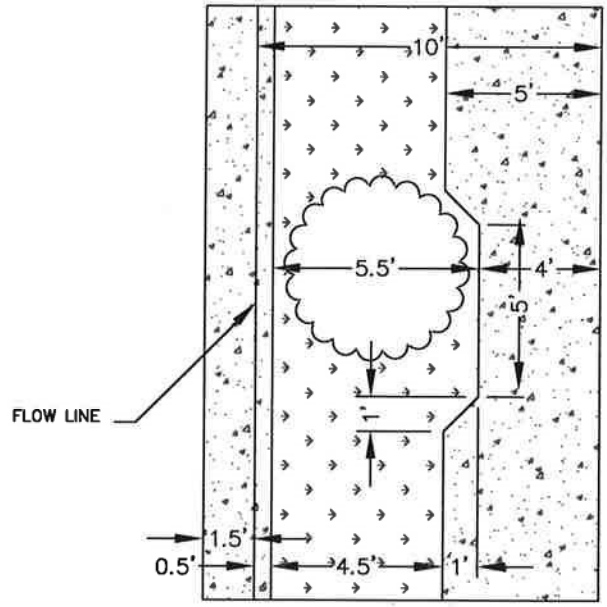
IN EXCESS OF 16' WIDE

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	**PEDESTRIAN REFUGE ISLAND IN CITY STREETS**	DATE 04/03/17 SCALE NONE DWG. NO. STD10038 STD. NO. 100.38

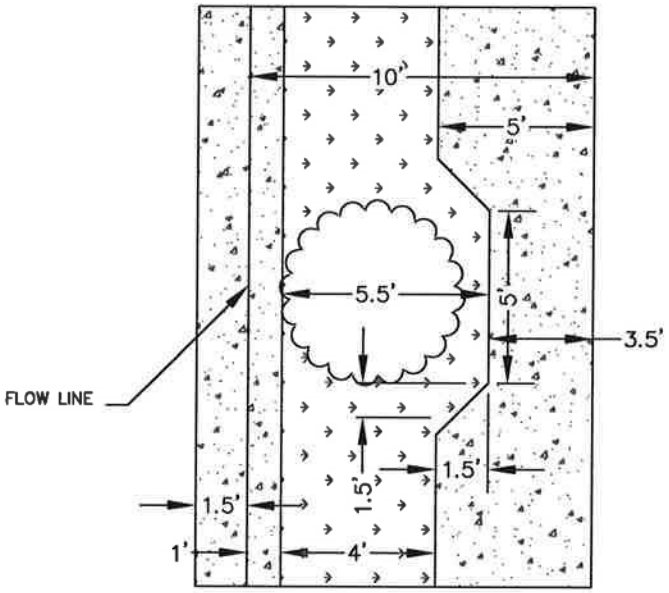


1. THE DISTANCES BETWEEN PEDESTRIAN SAFE AREAS SHALL BE NO GREATER THAN 35'.
2. MEASUREMENTS SHOWN ARE MINIMUMS.
3. ANY REFUGE LESS THAN 6' IN CROSSING WIDTH CROSSES AT GRADE WITH NO ADA MATTING.
4. REFUGES IN EXCESS OF 6' NEED 2 ADA MATS AND HAVE A SLIGHT RISE IN GRADE.
5. COMMERCIAL D/W REFUGES WILL USE CITY STANDARD MOUNTABLE CURB DESIGN BUT WILL ONLY RISE 1" WHILE PRODUCING A DEFINED FLOW LINE.
6. CONCRETE THICKNESS - 8" WITH WIRE REINFORCEMENT.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	PEDESTRIAN REFUGE ISLAND IN COMMERCIAL DRIVEWAY LARGER THAN 35'	DATE 04/03/17 SCALE N.T.S. DWG NO. STD10039 STD. NO 100.39

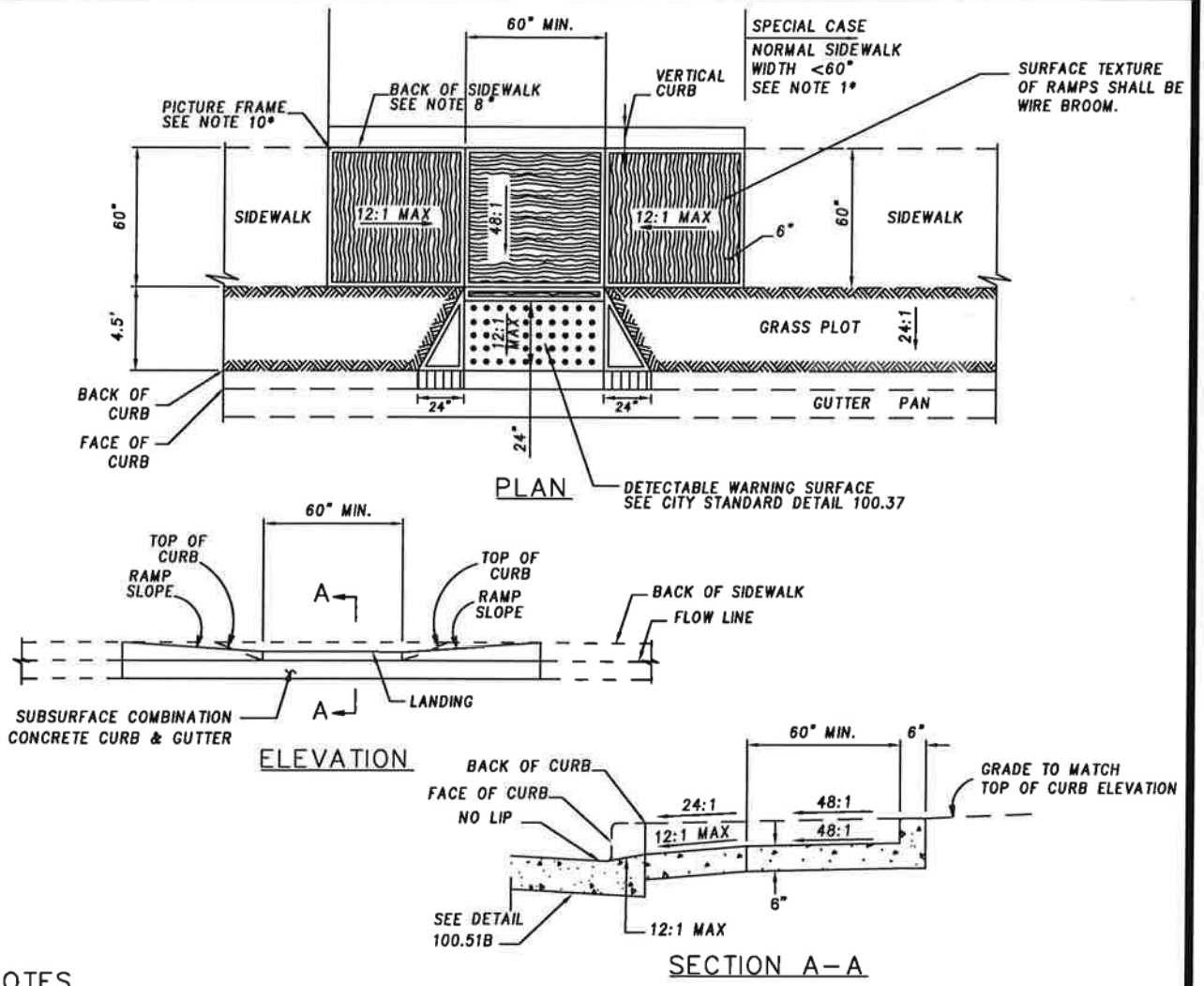


VERTICAL CURBING



MOUNTABLE CURBING

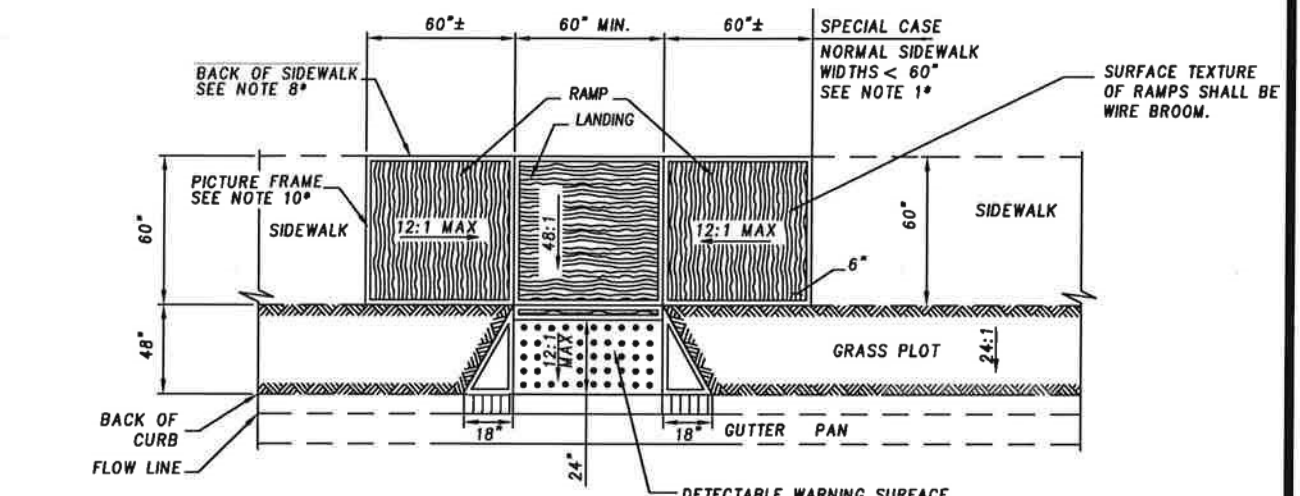
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	LANDSCAPING STANDARD GRASSPLOT WITH TREE PLAN VIEW	DATE 2/28/06 SCALE NONE DWG. NO. STD10040 STD. NO. 100.40



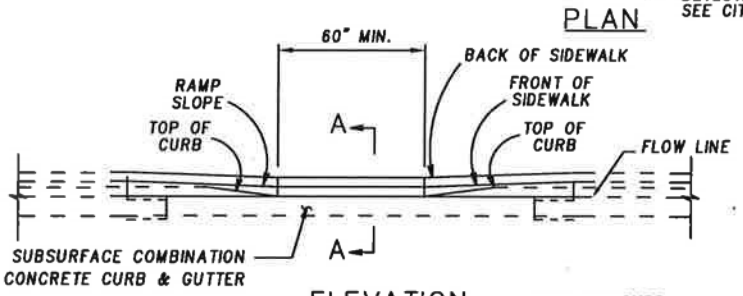
NOTES

1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM RAMP DETAILS.
5. THE GRASS PLOT SHALL BE DESIGNED TO BE 4.5' UNLESS OTHERWISE APPROVED.
6. ALL RAMPS & LANDINGS WILL BE A MINIMUM OF 6" THICK.
7. ALL SLOPES SHALL BE MEASURED INDEPENDENT TO THE SURROUNDING TERRAIN. THEREFORE, THE LENGTH OF THE RAMPS IS SOLELY DEPENDENT ON THE HEIGHT OF THE CURB (FOR EXAMPLE, A 6 IN. CURB WITH A 12:1 RAMP SLOPE SHOULD HAVE A 6 FT. LENGTH).
8. ALL SIDEWALK RAMP DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
9. HANDICAP RAMPS MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
10. ALL SIDEWALK, RAMPS AND LANDINGS WILL BE PICTURE FRAMED 1½" TO 2".
11. THIS DETAIL IS TO BE USED WHERE AT LEAST 7'-0" EXISTS BETWEEN THE BACK OF CURB AND THE BACK OF SIDEWALK. IF GRASS PLOT IS LESS THAN 24", WIDEN THE SIDEWALK TO THE BACK OF CURB AND THEN CONSTRUCT THE RAMP UTILIZING CITY STD 100.40.

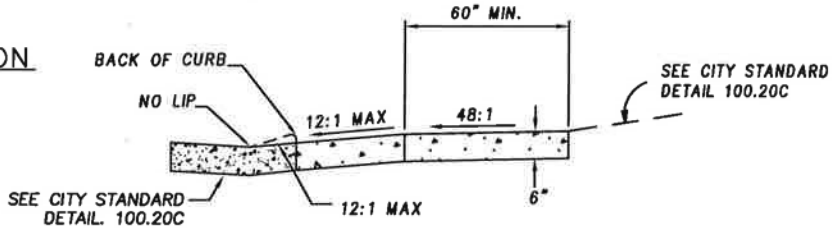
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	VERTICAL CURB & GRASS PLOT SIDEWALK RAMPS	DATE 5/30/12 SCALE N.T.S. DWG. NO. STD10041 STD. NO. 100.41



PLAN



ELEVATION

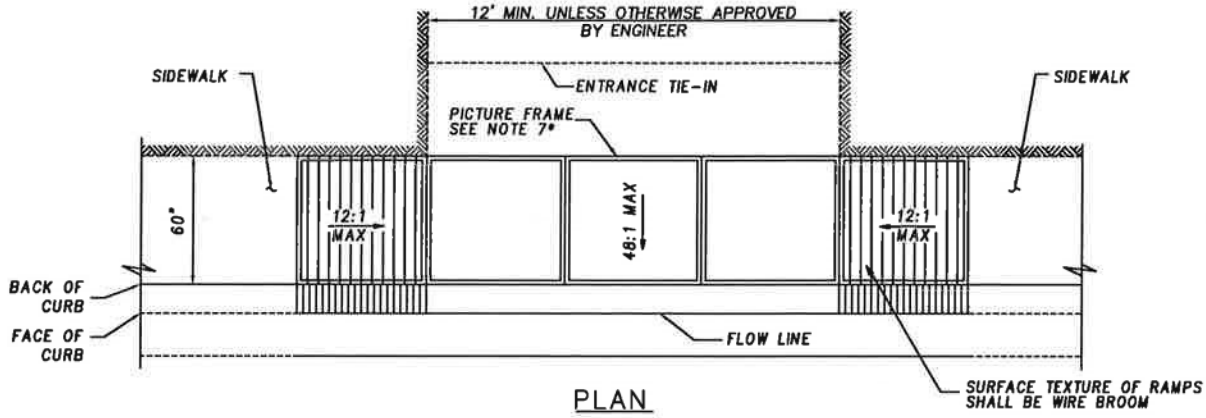


SECTION A–A

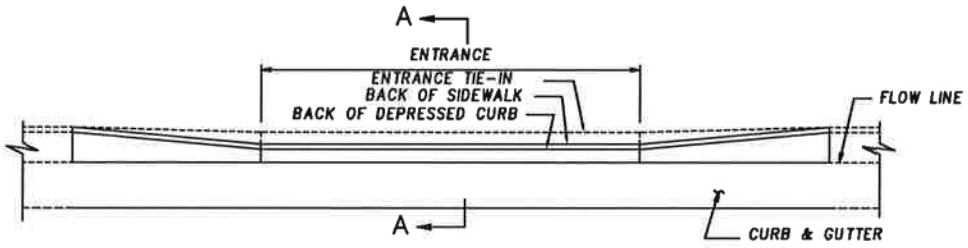
NOTES

1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM RAMP DETAILS.
5. THE GRASS PLOT SHALL BE DESIGNED TO BE 4' UNLESS OTHERWISE APPROVED.
6. ALL RAMPS & LANDINGS WILL BE A MINIMUM OF 6" THICK.
7. SIDEWALK RAMP SHALL MEET THE 12:1 MAXIMUM SLOPE AS MEASURED AT THE BACK OF SIDEWALK.
8. HANDICAP RAMPS MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
9. ALL SIDEWALK, RAMPS AND LANDINGS WILL BE PICTURE FRAMED 1½" TO 2".
10. THIS DETAIL IS TO BE USED WHERE AT LEAST 7'–0" EXISTS BETWEEN THE BACK OF CURB AND THE BACK OF SIDEWALK.

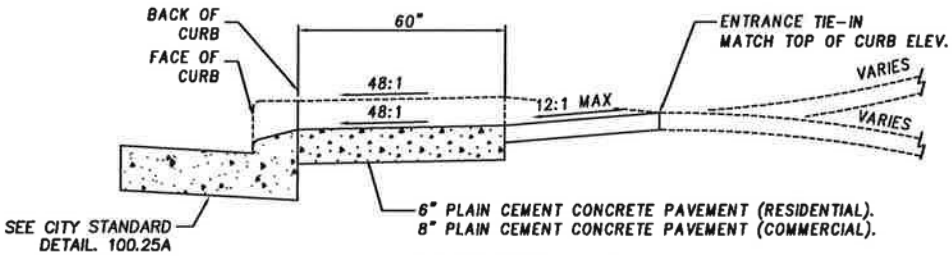
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	MOUNTABLE CURB SIDEWALK RAMPS	DATE 5/30/12 SCALE N.T.S. DWG. NO. STD10042 STD. NO. 100.42



PLAN



ELEVATION

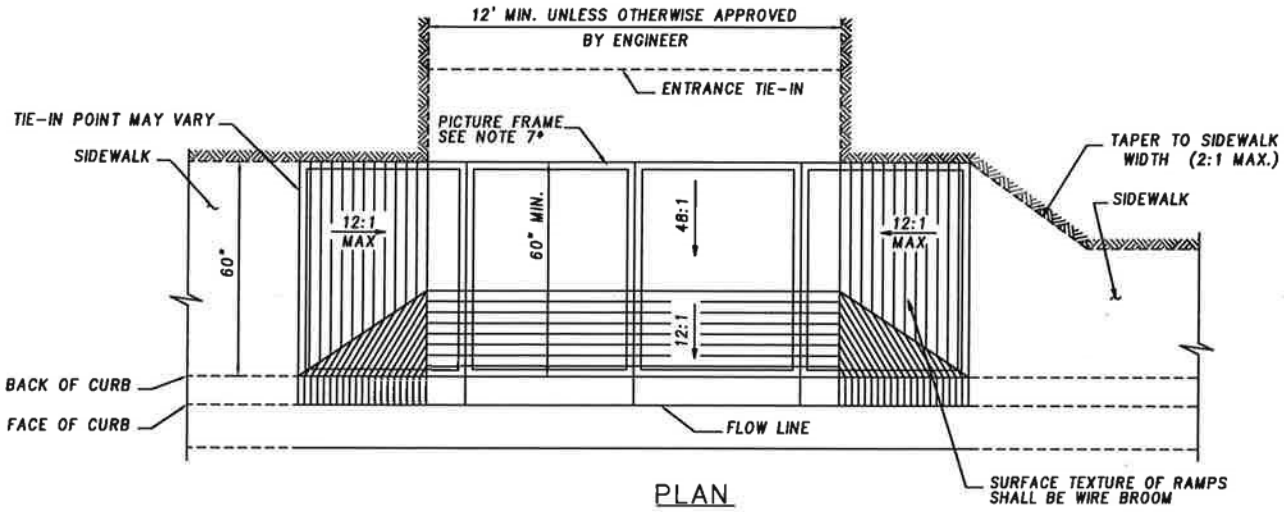


SECTION A-A

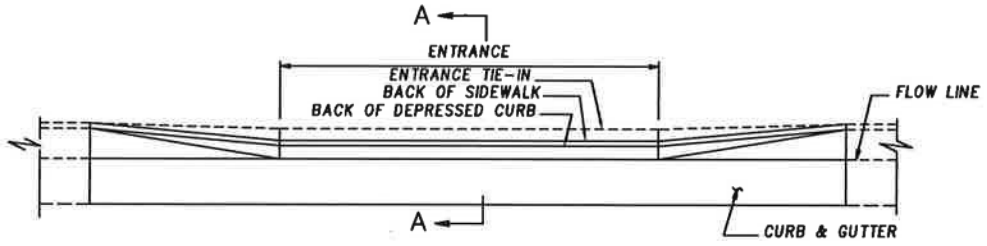
NOTES

1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. ALL SLOPES SHALL BE MEASURED INDEPENDENT TO THE SURROUNDING TERRAIN. THEREFORE, THE LENGTH OF THE RAMPS IS SOLELY DEPENDENT ON THE HEIGHT OF THE CURB (FOR EXAMPLE, A 6 IN. CURB WITH A 12:1 RAMP SLOPE SHOULD HAVE A 6 FT. LENGTH).
5. ALL SIDEWALK DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
6. ENTRANCES MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
7. THE SIDEWALK WILL BE PICTURE FRAMED 1½" TO 2".

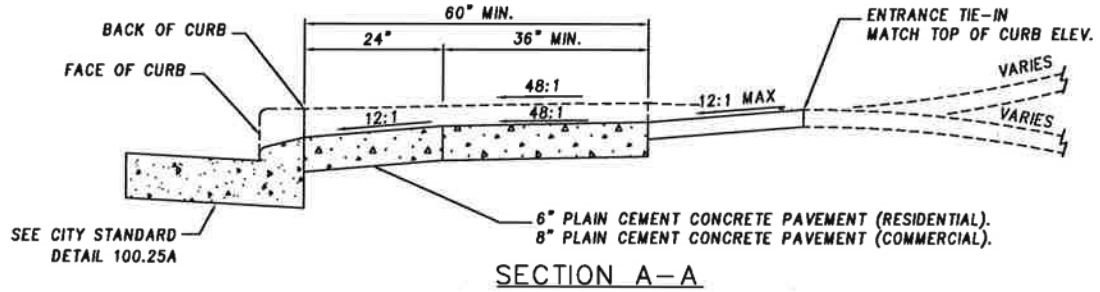
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	CURBSIDE SIDEWALK STANDARD ENTRANCE RESIDENTIAL & COMMERCIAL METHOD NO. 2	DATE 5/30/12 SCALE N.T.S. DWG. NO. STD10043 STD. NO. 100.43



PLAN



ELEVATION

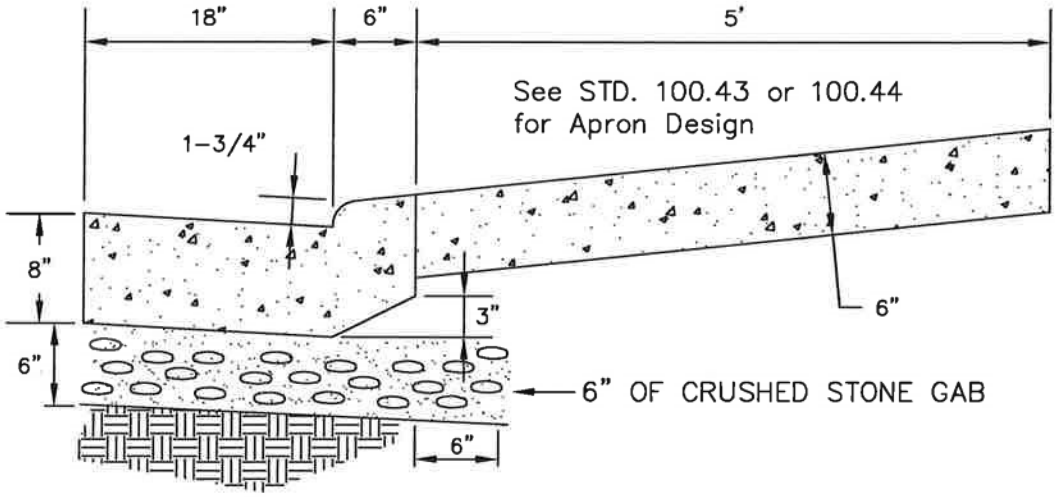


SECTION A-A

NOTES

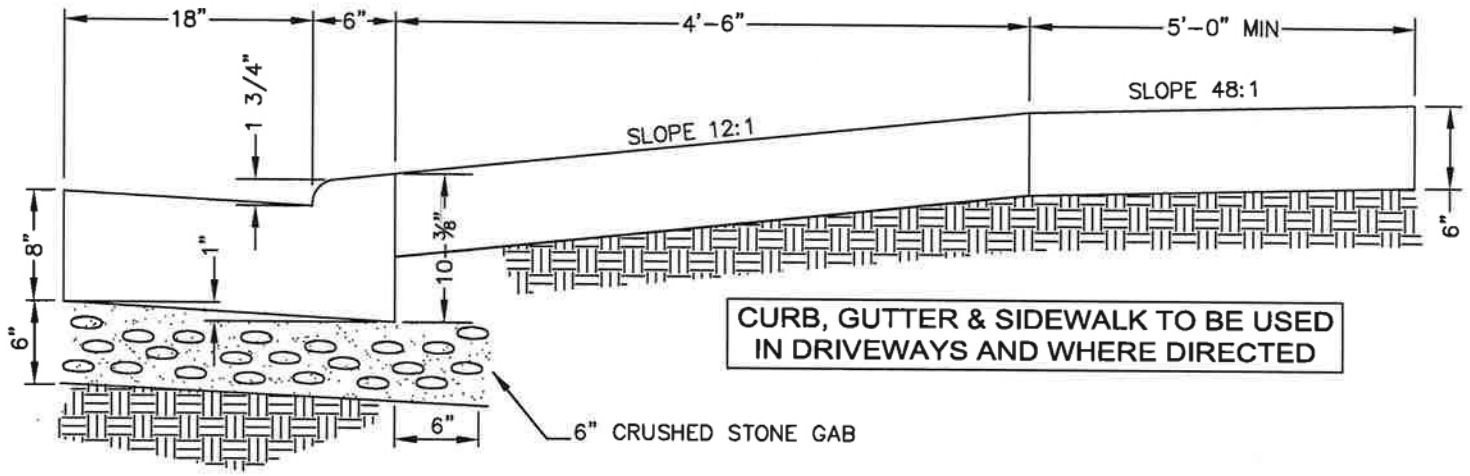
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. ALL SLOPES SHALL BE MEASURED INDEPENDENT TO THE SURROUNDING TERRAIN. THEREFORE, THE LENGTH OF THE RAMPS IS SOLELY DEPENDENT ON THE HEIGHT OF THE CURB (FOR EXAMPLE, A 6 IN. CURB WITH A 12:1 RAMP SLOPE SHOULD HAVE A 6 FT. LENGTH).
5. ALL SIDEWALK DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
6. ENTRANCES MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
7. THE SIDEWALK WILL BE PICTURE FRAMED 1½" TO 2".

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	CURBSIDE SIDEWALK STANDARD ENTRANCE RESIDENTIAL & COMMERCIAL METHOD NO. 1	DATE 5/30/12 SCALE N.T.S. DWG. NO. STD10044 STD. NO. 100.44



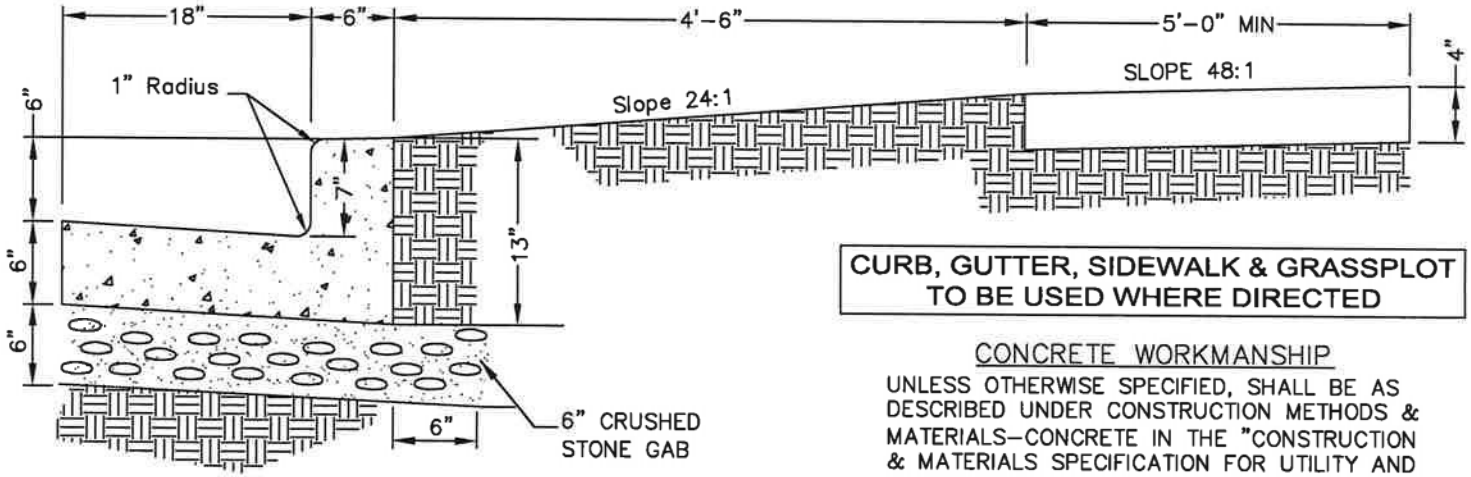
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	SPECIAL CURB & GUTTER AND SIDEWALK IN INDUSTRIAL DRIVEWAYS	DATE 01/01/00 SCALE NONE DWG. NO. STD10050 STD. NO. 100.50

A



CURB, GUTTER & SIDEWALK TO BE USED IN DRIVEWAYS AND WHERE DIRECTED

B

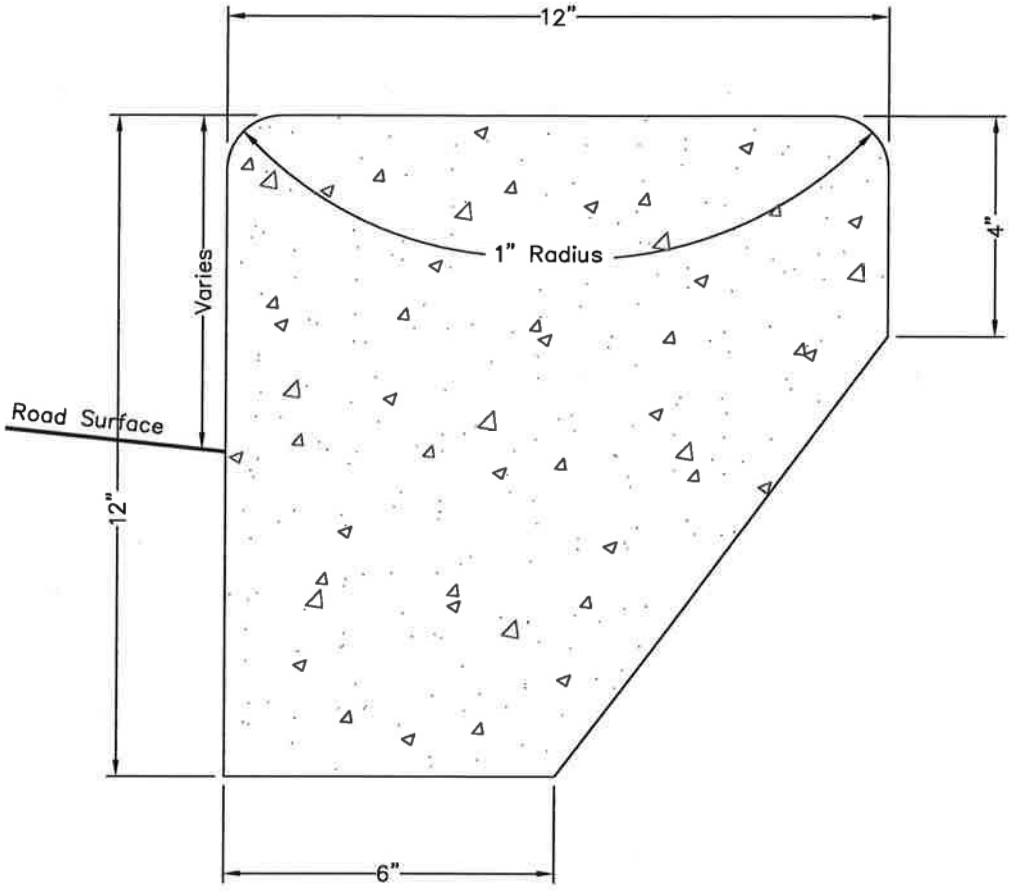


CURB, GUTTER, SIDEWALK & GRASSPLOT TO BE USED WHERE DIRECTED

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

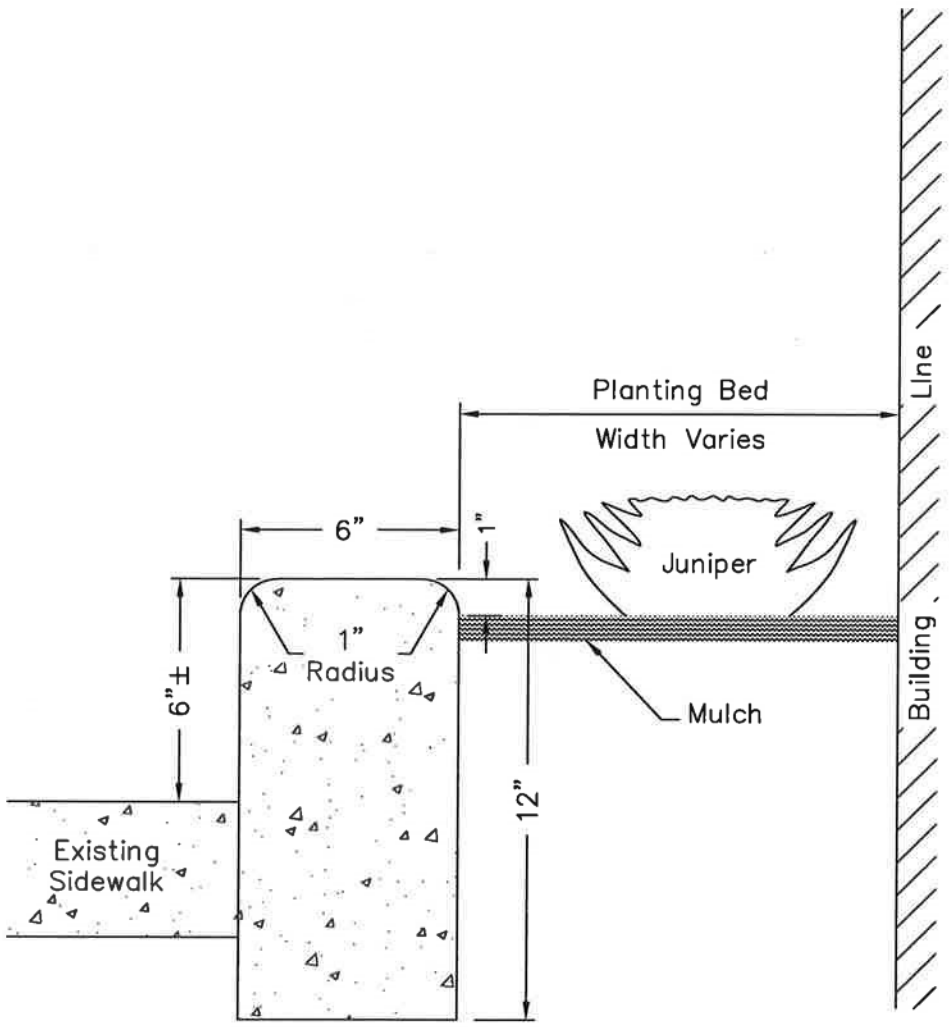
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD DETAILS FOR CURB, GUTTER, & SIDEWALK WITH GRASSPLOT OR DRIVEWAY	DATE 4/6/92 SCALE NONE DWG NO. STD10051 STD. NO 100.51



CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION

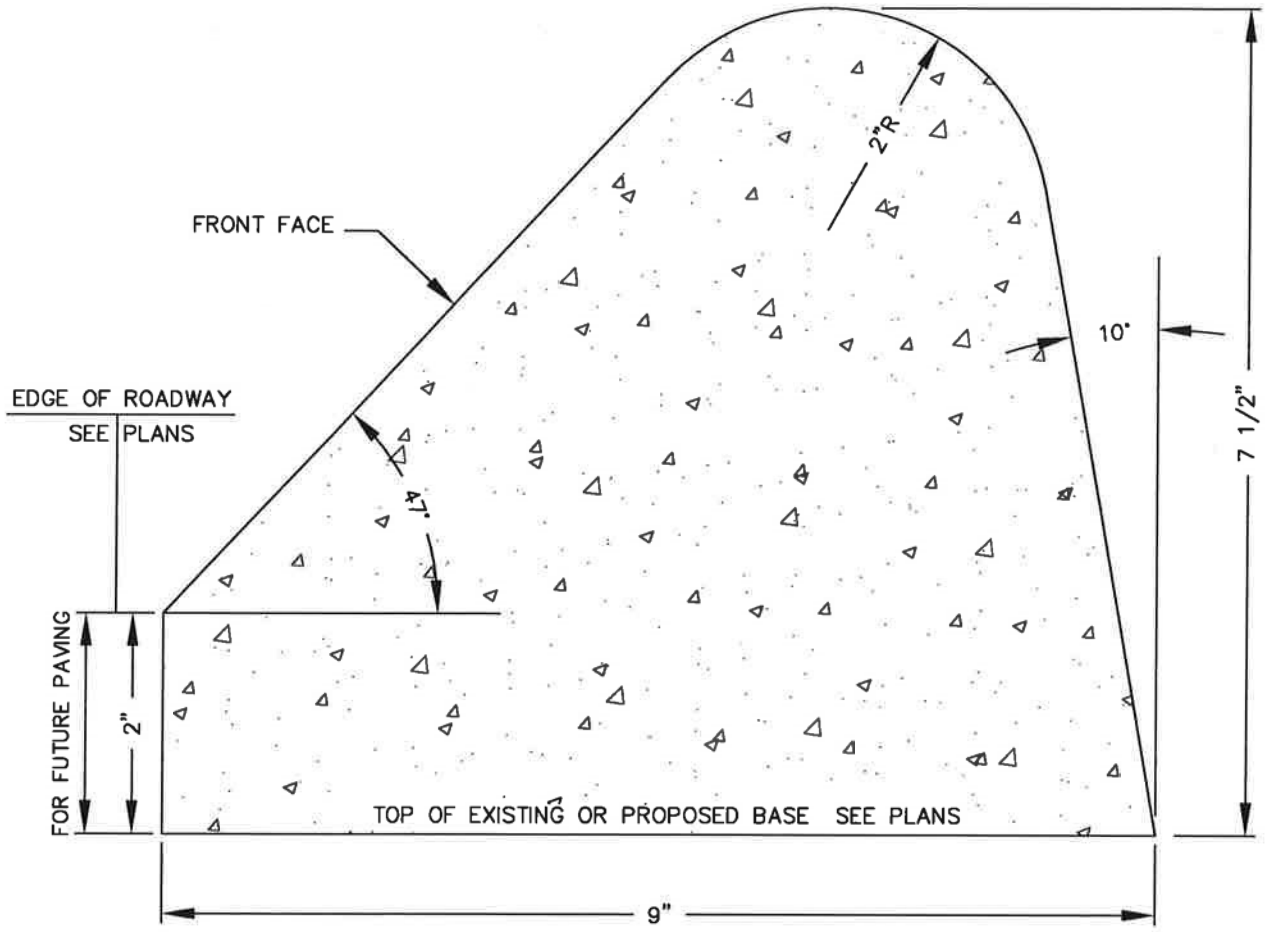
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD DETAIL FOR TYPE A LANDSCAPING CURB	DATE 2/3/83 SCALE NONE DWG. NO. STD10052 STD. NO. 100.52



CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	**STANDARD DETAIL FOR PLANTER CURB**	DATE 2/3/83 SCALE NONE DWG. NO. STD10053 STD. NO. 100.53



CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD BITUMINOUS CONCRETE CURB	DATE 3/10/87 SCALE NONE DWG. NO. STD10054 STD. NO. 100.54

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

SECTION A-A

PLAN

FRONT ELEVATION

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	SPECIAL CURB CLASS "E" COMBINATION INLET	DATE 8/29/86 SCALE NONE DWG. NO. STD10055 STD. NO. 100.55

CITY OF SALISBURY
SALISBURY, MD

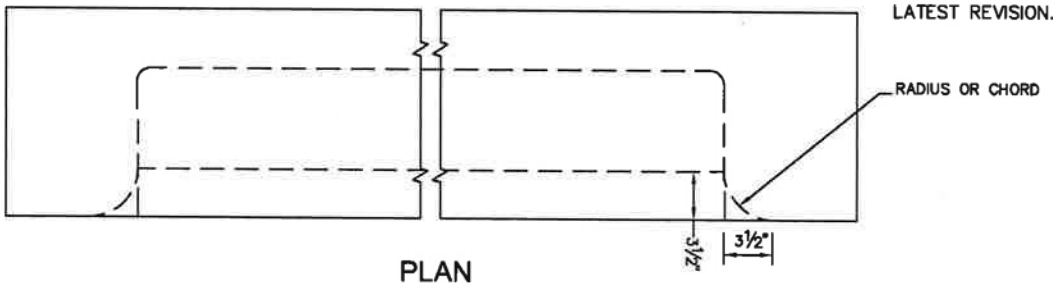
APPROVED
1/2/18
Amanda Pollack
CITY ENGINEER
DATE

SPECIAL CURB CLASS "NR" OPEN THROAT INLET

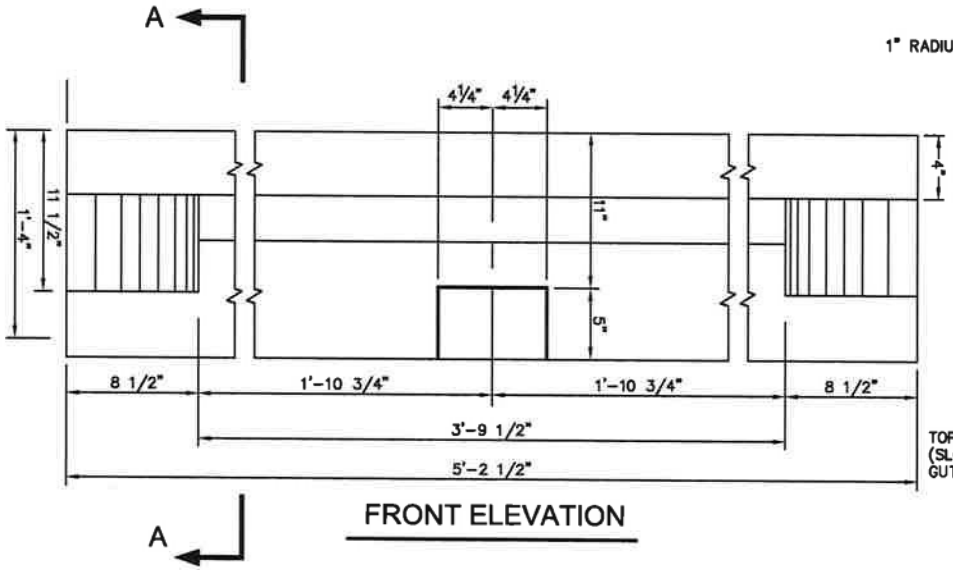
DATE 8/29/86
SCALE NONE
DWG. NO. STD100.56
STD. NO. 100.56

CONCRETE WORKMANSHIP

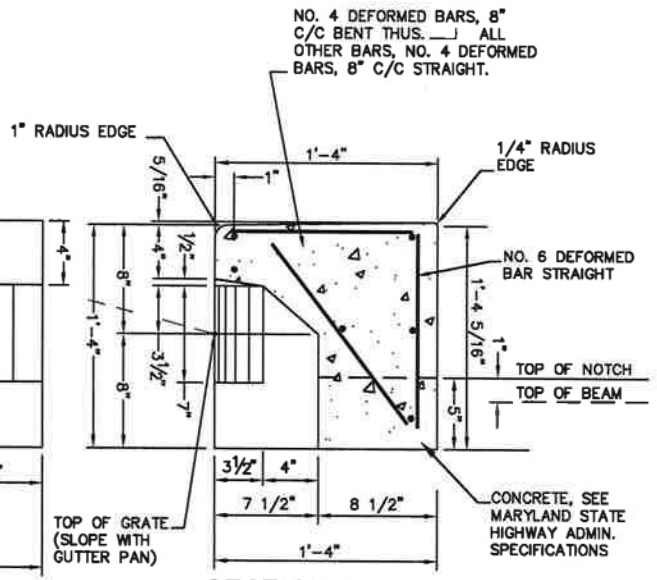
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.



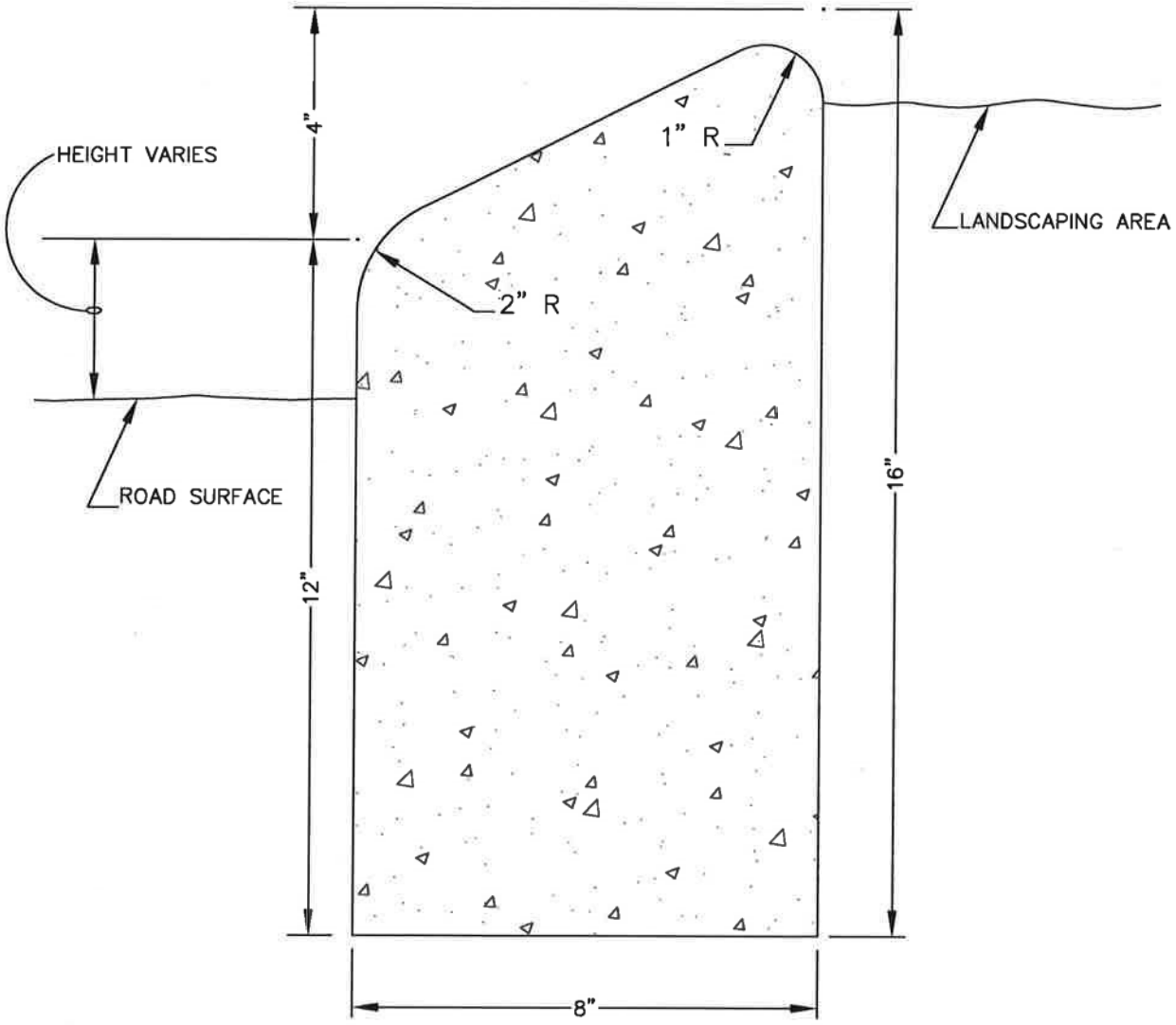
PLAN



FRONT ELEVATION



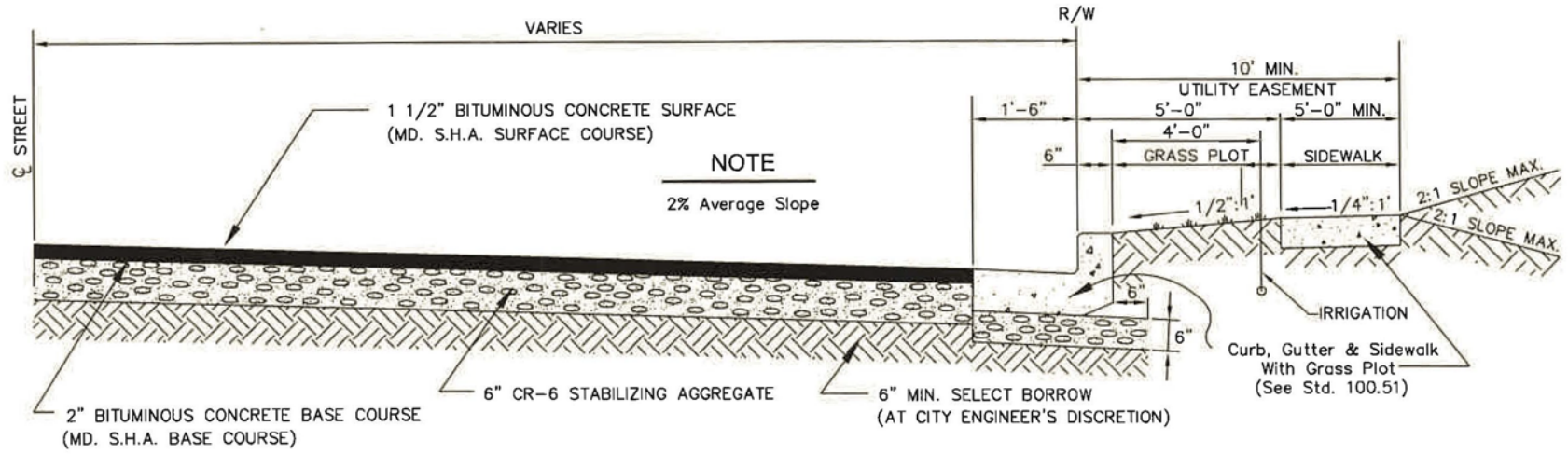
SECTION A-A



CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	TRAFFIC ISLAND SAFETY CURB	DATE 7/12/90 SCALE NONE DWG. NO. STD10057 STD. NO. 100.57

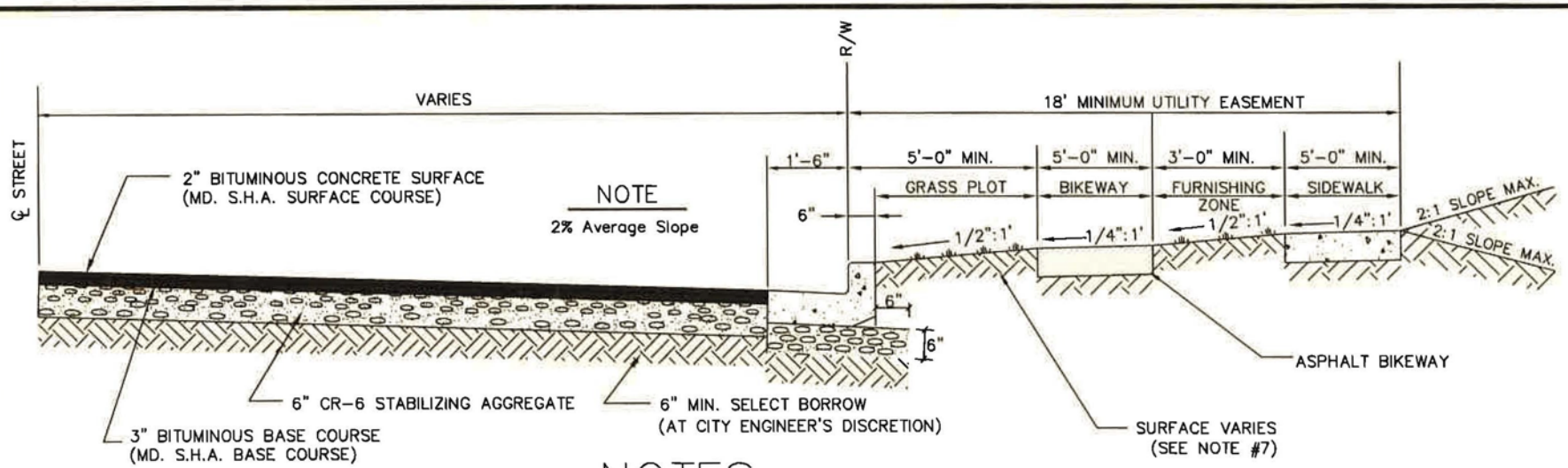


NOTES

1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
4. ALL STREETS SHALL BE CONSTRUCTED IN ACCORDANCE TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", AS PUBLISHED BY THE M.D.O.T., S.H.A., LATEST EDITION.
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY. ELIMINATION REQUIRES 5'-0" WIDTH SIDEWALK PLACED AGAINST CURB.
6. IF ON-STREET PARKING IS DESIRED, STREET DESIGN SHALL BE WIDENED BY 8'-0" PER SIDE AND CURB EXTENSIONS PROVIDED.

REVISED: 05/31/21

CITY OF SALISBURY SALISBURY, MD	APPROVED 12-8-22 DATE CITY ENGINEER	TYPICAL SECTION TYPICAL LOCAL STREET WITH STANDARD CURB & GUTTER	DATE 3/23/92 SCALE NONE DWG NO. STD20011 STD. NO 200.11



NOTES

1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
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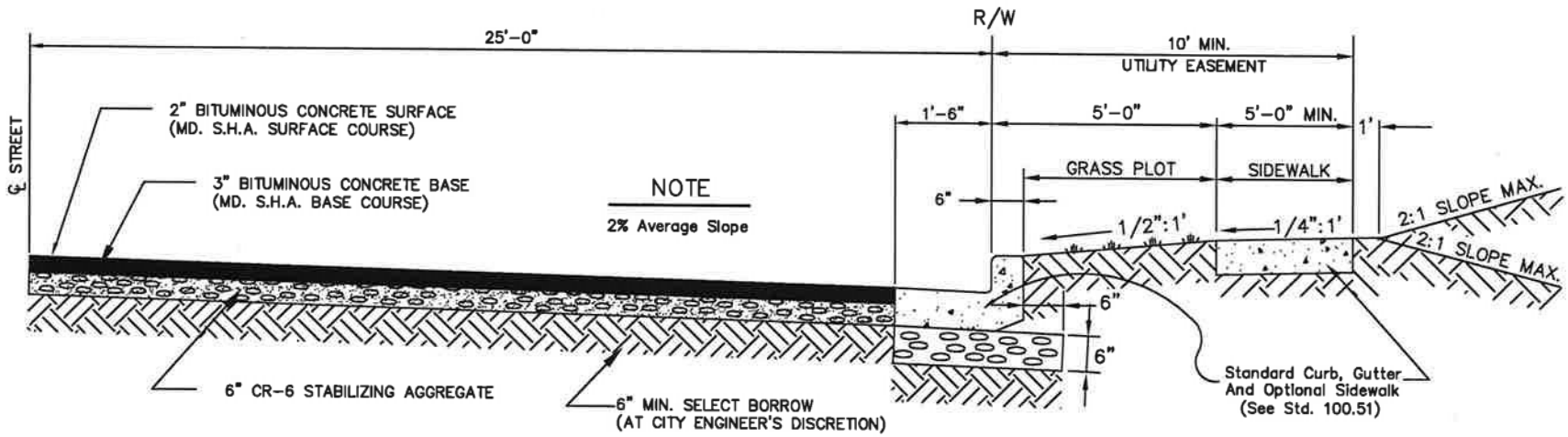
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY. ELIMINATION REQUIRES 5'-0" WIDTH SIDEWALK PLACED AGAINST CURB.
6. IF ON-STREET PARKING IS DESIRED, STREET DESIGN SHALL BE WIDENED BY 8'-0" PER SIDE AND CURB EXTENSIONS PROVIDED.
7. SURFACE OF GRASS PLOT MAY VARY BY CONTENT. MORE URBANIZED AREAS MAY REQUIRE BRICK OR OTHER SURFACES.
8. CITY MAY REQUIRE TREES OR OTHER LANDSCAPING TO BE PLACED IN GRASS PLOT OR FURNISHING ZONE BASED ON CONTEXT.
9. GRASS PLOT MAY BE RAISED FOR PLACEMENT OF STORMWATER BEST MANAGEMENT PRACTICES (BMPs).
10. DEFAULT MATERIAL FOR PROTECTED BIKEWAY IS PAVEMENT (BITUMINOUS CONCRETE). OTHER MATERIALS MAY BE USED AT DISCRETION OF ENGINEER.

REV: 05-31-2021

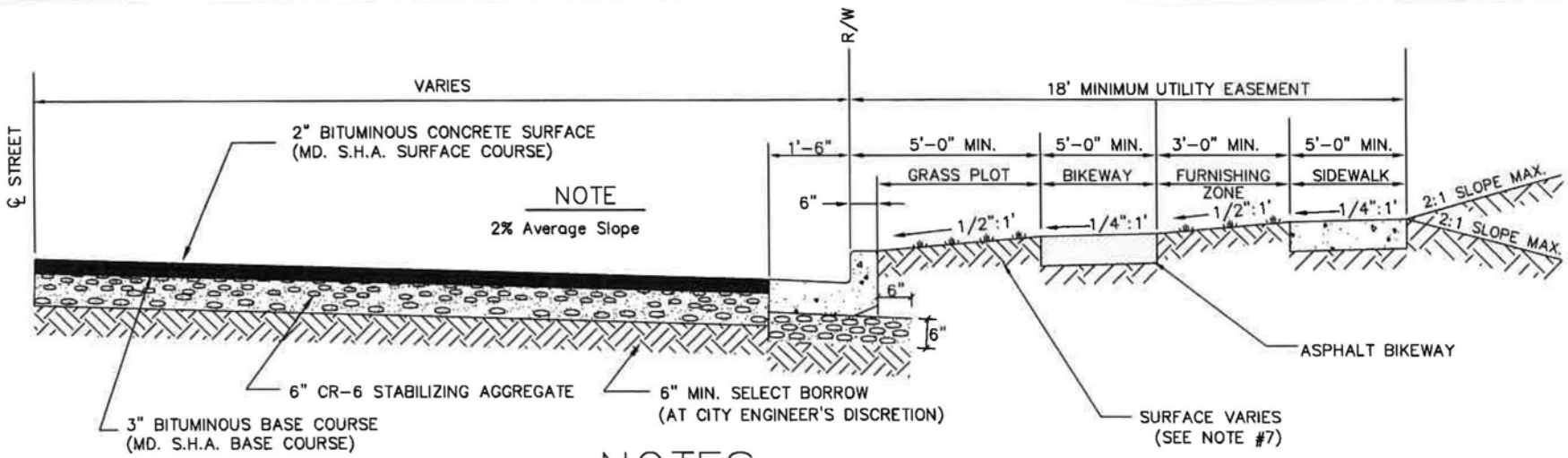
CITY OF SALISBURY SALISBURY, MD	APPROVED 12-8-22 DATE CITY ENGINEER	TYPICAL SECTION TYPICAL MAJOR COLLECTOR STREET WITH STANDARD CURB & GUTTER	DATE 3/23/92 SCALE NONE DWG NO. STD20041 STD. NO 200.41



NOTES

1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
4. ALL STREETS SHALL BE CONSTRUCTED IN ACCORDANCE TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", AS PUBLISHED BY THE M.D.O.T., S.H.A., LATEST EDITION.
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	**TYPICAL SECTION** (INDUSTRIAL/COMMERCIAL) 50' MAJOR COLLECTOR STREET WITH STANDARD CURB & GUTTER	DATE 3/23/92 SCALE NONE DWG NO. STD20051 STD. NO 200.51



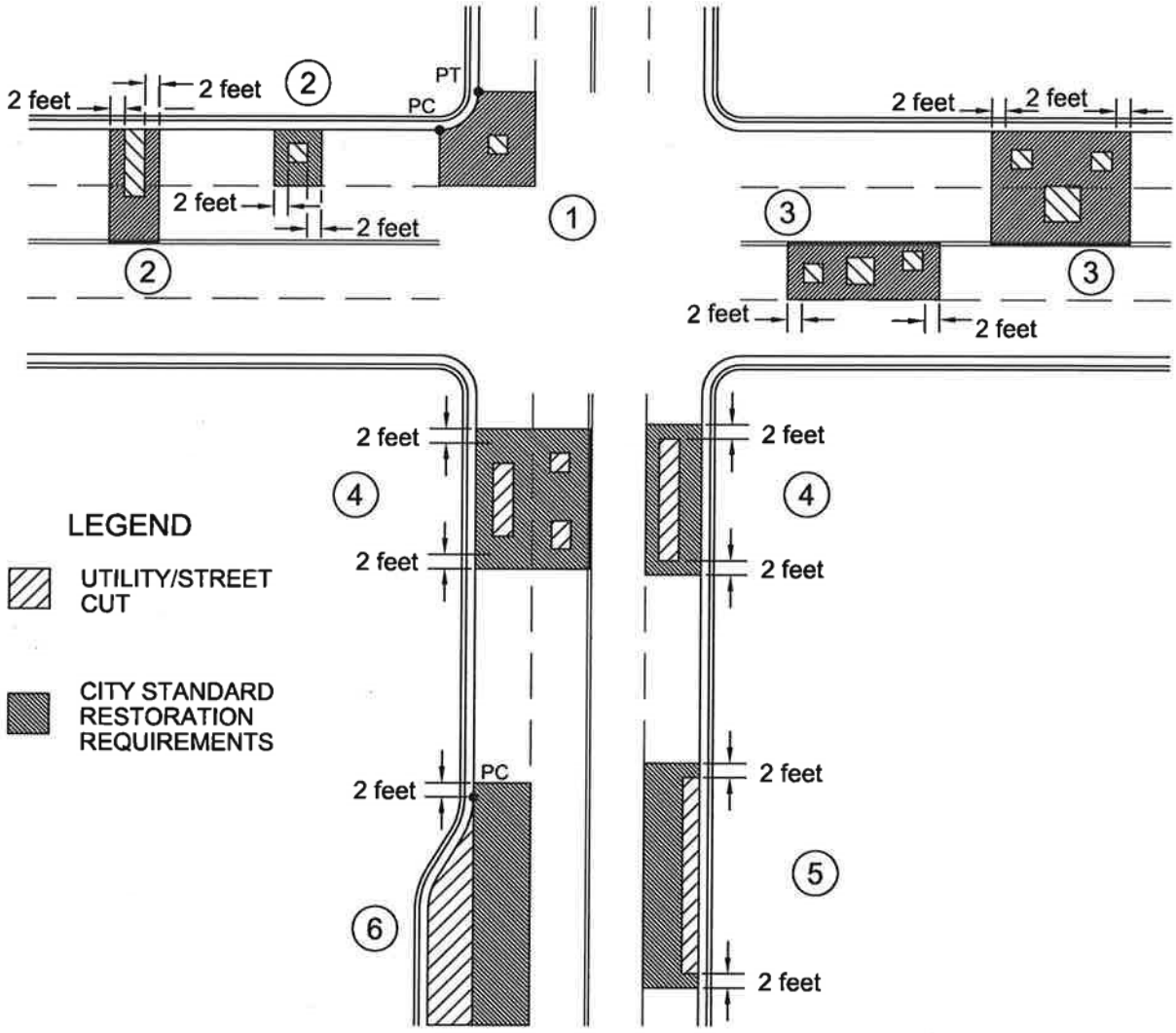
NOTES

1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
4. ALL STREETS SHALL BE CONSTRUCTED IN ACCORDANCE TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", AS PUBLISHED BY THE M.D.O.T., S.H.A., LATEST EDITION.
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY. ELIMINATION REQUIRES 5'-0" WIDTH SIDEWALK PLACED AGAINST CURB.
6. IF ON-STREET PARKING IS DESIRED, STREET DESIGN SHALL BE WIDENED BY 8'-0" PER SIDE AND CURB EXTENSIONS PROVIDED.
7. SURFACE OF GRASS PLOT MAY VARY BY CONTENT. MORE URBANIZED AREAS MAY REQUIRE BRICK OR OTHER SURFACES.
8. CITY MAY REQUIRE TREES OR OTHER LANDSCAPING TO BE PLACED IN GRASS PLOT OR FURNISHING ZONE BASED ON CONTEXT.
9. GRASS PLOT MAY BE RAISED FOR PLACEMENT OF STORMWATER BEST MANAGEMENT PRACTICES (BMPs).
10. DEFAULT MATERIAL FOR PROTECTED BIKEWAY IS PAVEMENT (BITUMINOUS CONCRETE). OTHER MATERIALS MAY BE USED AT DISCRETION OF ENGINEER.

REV: 05-31-2021

CITY OF SALISBURY SALISBURY, MD	APPROVED 12-8-22 DATE CITY ENGINEER	TYPICAL SECTION TYPICAL ARTERIAL STREET WITH STANDARD CURB & GUTTER	DATE 3/23/92 SCALE NONE DWG NO. STD20061 STD. NO 200.61

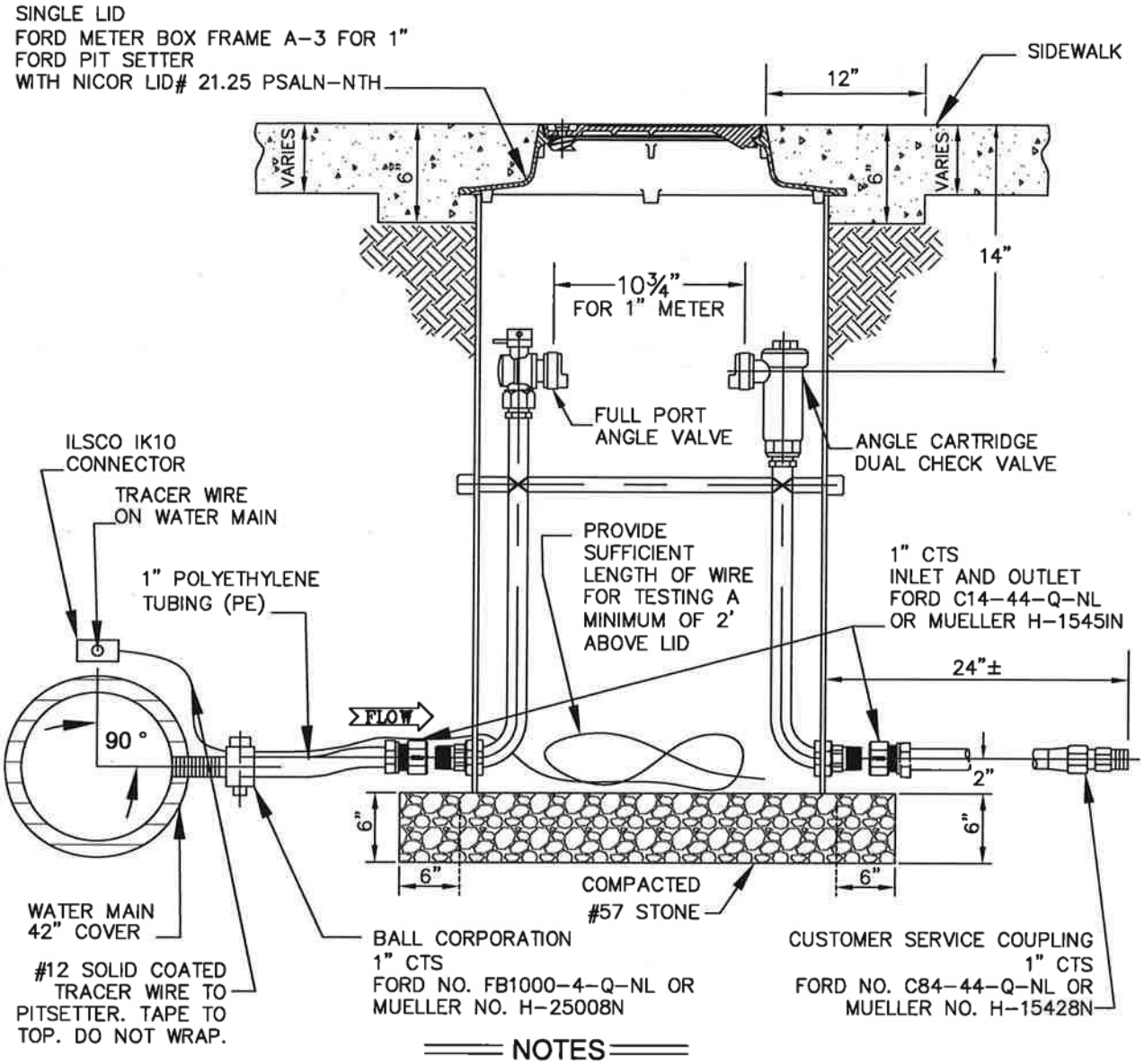
EXAMPLES OF RESTORATION LIMITS FOR REPAVING AND RECONSTRUCTION, IN CONJUNCTION WITH RESOLUTION 2298, WHICH SUPERCEDES RESOLUTION 1312.



THE SCENARIOS SHOWN ARE EXAMPLES OF TYPICAL APPLICATIONS OF THE CITY OF SALISBURY REPAVING AND RECONSTRUCTION POLICY, RESOLUTION 2298, AND MAY BE MODIFIED AT THE DISCRETION OF THE CITY.

① 4.a - RESTORATION OF ROADWAY AT AN INTERSECTION.
② 5.a.1 - RESTORATION OF ROADWAY WHEN UTILITY CUTS ARE TRANSVERSE TO THE ROADWAY CENTERLINE.
③ 5.a.2 - RESTORATION OF ROADWAY WHEN TWO OR MORE UTILITY CUTS ARE TRANSVERSE TO THE ROADWAY CENTERLINE TO INCLUDE TEST PITTING AND SOIL BORING.
④ 5.b.1 - RESTORATION OF ROADWAY WHEN ONE OR MORE UTLITY CUTS ARE PARALLEL TO THE ROADWAY CENTERLINE TO INCLUDE TEST PITTING AND SOIL BORING.
⑤ 5.c.1 - RESTORATION OF ROADWAY WHERE CURB AND GUTTER IS CONSTRUCTED OR RECONSTRUCTED.
⑥ 6 - RESTORATION OF ROADWAY AT ROADWAY WIDENING.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	RESTORATION LIMITS FOR ASPHALT PAVEMENT	DATE 9/04/13 SCALE NONE DWG. NO. STD20072 STD. NO. 200.72

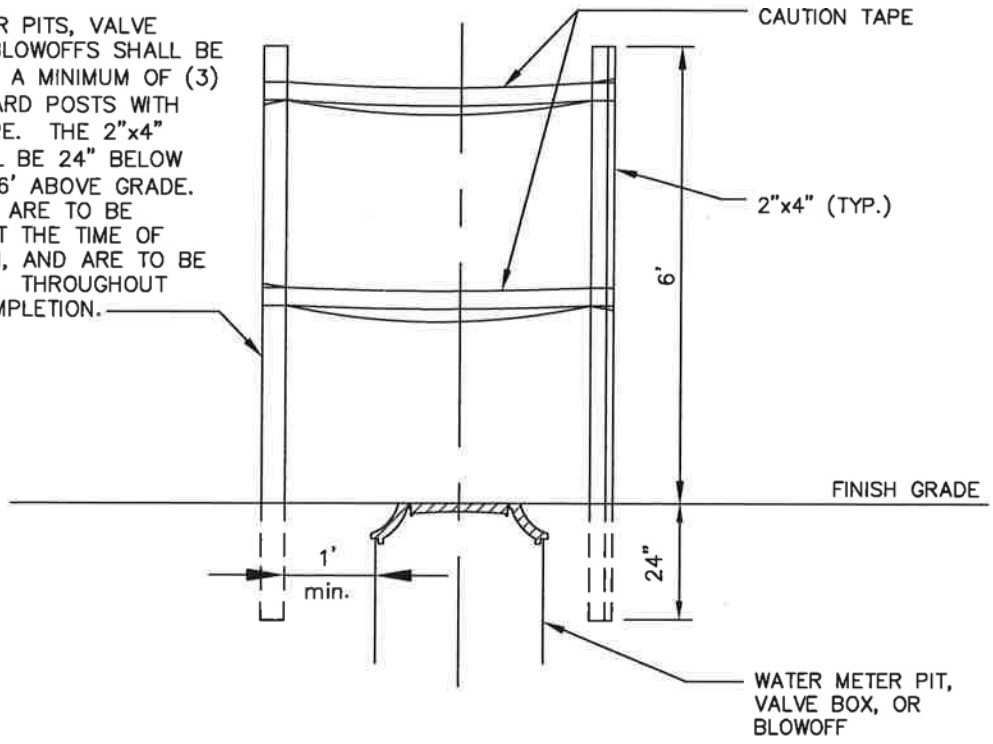


NOTES

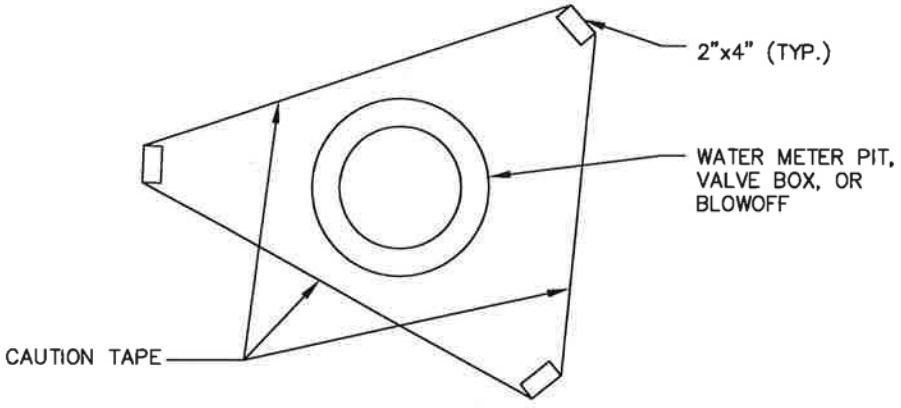
1. WATER METER-SHALL BE SIZED, FURNISHED & INSTALLED BY CITY FORCES.
2. VAULT AREA BASE SHALL BE 6" COMPACTED #57 STONE.
3. IF WATER MAIN IS C-900, USE APPROVED SADDLE FOR TAP.
4. FOR C-900 MAIN 12" OR LESS: FORD FS313 SERIES STAINLESS STEEL SADDLE; MUELLER SS SERIES STAINLESS STEEL SERVICE SADDLE FOR 1" SERVICE SINGLE STUD 5" LENGTH.
5. FORD PITSETTER-FORD (SHOWN) NO. PSBHC-488-20-36-Q-NL-NO BYPASS MUELLER 1" RIGID COPPER SINGLE METER PIT W/OPTION CODE 000590.
6. PE TUBING SHALL BE CLASS 200, SDR-9, CTS-OD, 200 PSI, INSTALLED WITH #12 SOLID COATED COPPER TRACER WIRE FROM CORP. STOP TO SUPPLY SIDE ANGLE VALVE. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.
7. 1" PIT SETTERS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE PIT SETTER LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 STONE AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. SLOPE THE COLLAR IN SUCH AWAY AS TO CREATE POSITIVE DRAINAGE.
8. SEE STD 300.15 FOR GUARD DETAIL.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	1" WATER SERVICE	DATE 3/23/05 SCALE NONE DWG. NO. STD30014 STD. NO. 300.14

WATER METER PITS, VALVE BOXES, OR BLOWOFFS SHALL BE GUARDED BY A MINIMUM OF (3) 2"x4"x8' GUARD POSTS WITH CAUTION TAPE. THE 2"x4" POSTS SHALL BE 24" BELOW GRADE AND 6' ABOVE GRADE. THE GUARDS ARE TO BE INSTALLED AT THE TIME OF INSTALLATION, AND ARE TO BE MAINTAINED THROUGHOUT PROJECT COMPLETION.



FRONT VIEW



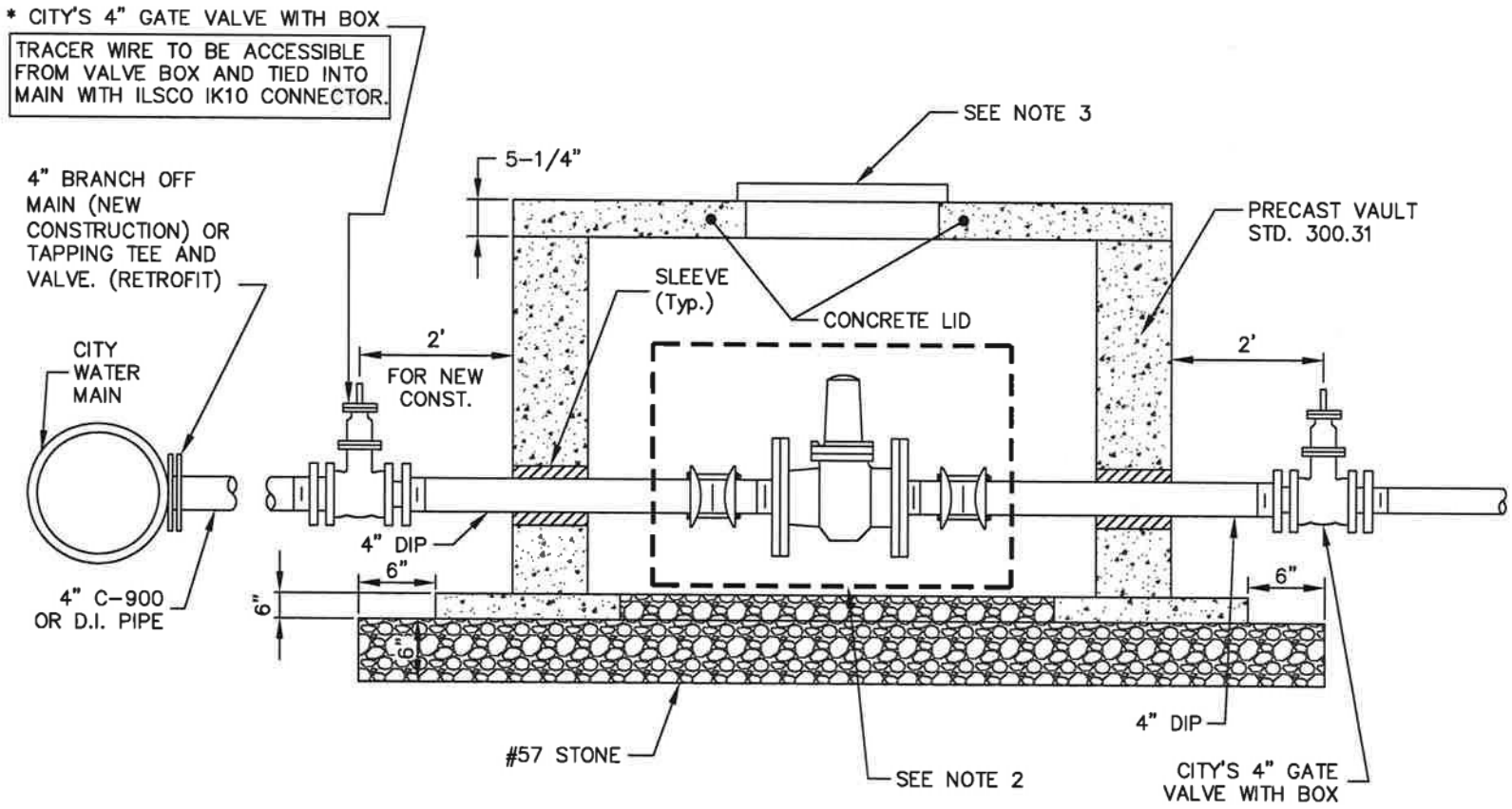
PLAN VIEW

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	TYPICAL WATER METER PIT, VALVE BOX, OR BLOWOFF MARKER/GUARD DETAIL	DATE 1/31/06 SCALE NONE DWG. NO. STD30015 STD. NO. 300.15

CITY OF SALISBURY
SALISBURY, MD

APPROVED
1/2/18
CITY ENGINEER
DATE

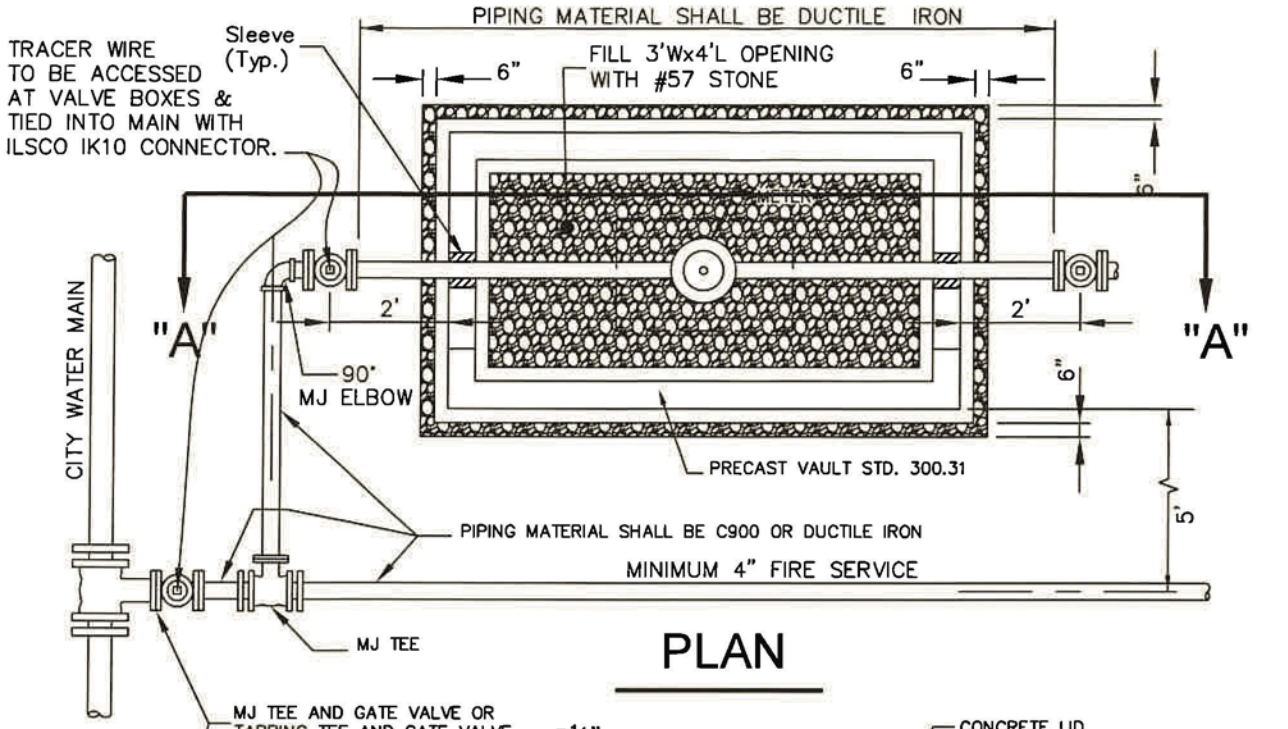
TYPICAL 4" WATER SERVICE



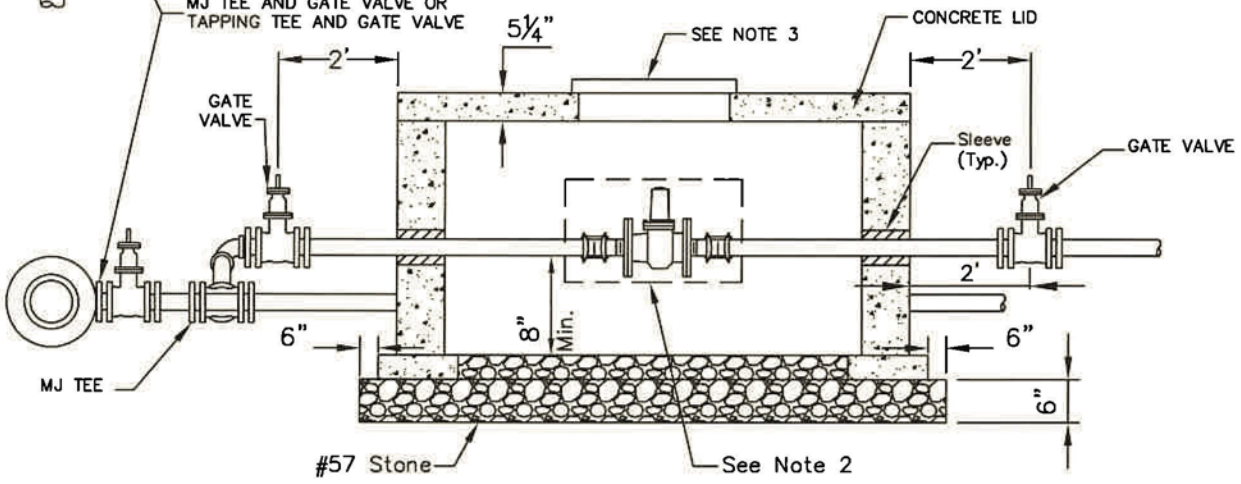
NOTES

1. SLEEVES SHALL BE PVC OR IRON PIPE TWO (2) PIPE SIZES GREATER THAN SERVICE PIPE.
2. WATER METER SHALL BE SIZED, FURNISHED AND INSTALLED BY CITY FORCES.
3. CASTING–SEE DETAIL 300.30
4. INLET AND OUTLET OPENINGS TO BE FURNISHED W/APPROVED GASKET FROM MANUFACTURER OR A FIELD INSTALLED GASKET APPROVED BY CITY INSPECTOR.
5. CONCRETE LID SHALL BE FASTENED TO STRUCTURE WITH APPROVED TYPE S MORTAR.
6. DOMESTIC SERVICE PIPING MATERIAL SHALL BE DUCTILE IRON PIPE FROM GATE VALVE TO GATE VALVE, THROUGH PIT. REMAINDER OF PIPING MATERIAL SHALL BE C 900 OR DUCTILE IRON.
7. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON CUSTOMER SERVICE SIDE OF VAULT WHICH IS TO BE OWNED AND MAINTAINED BY CUSTOMER.

DATE	3/24/99
SCALE	NONE
DWG. NO.	STD30025
STD. NO.	300.25



PLAN



SECTION A-A

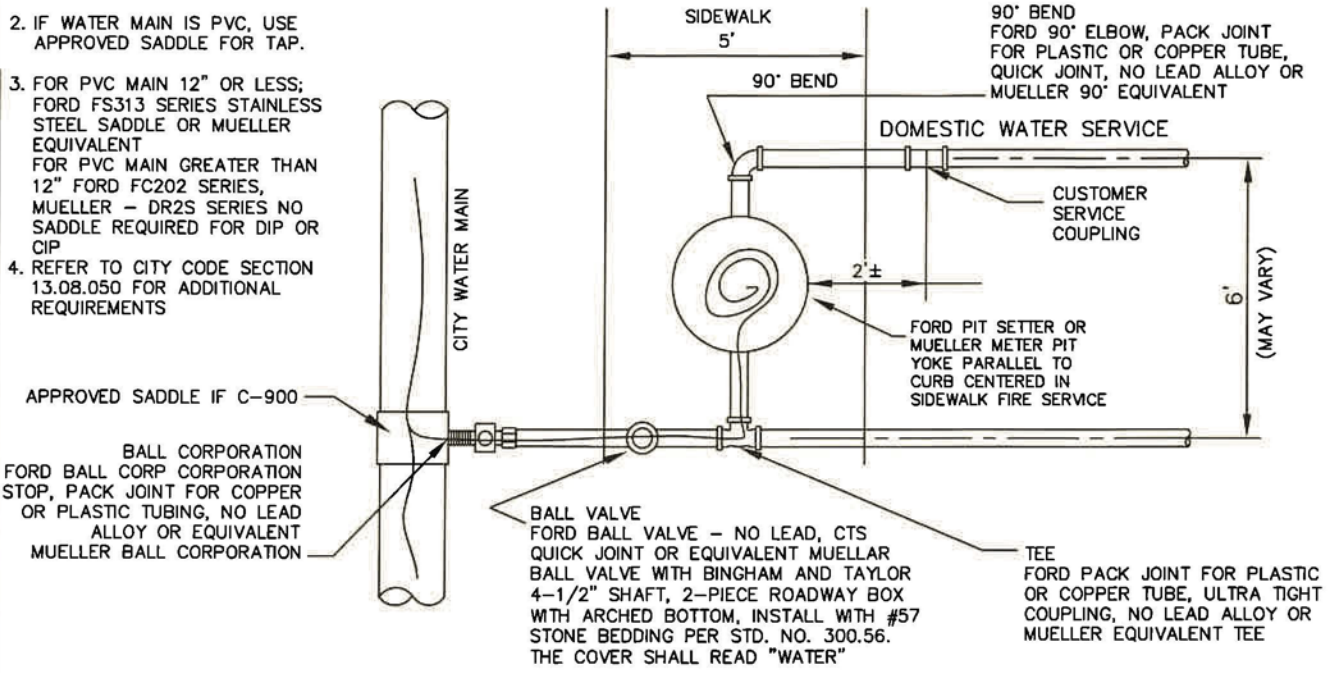
NOTES:
1. SLEEVES SHALL BE PVC OR IRON PIPE TWO (2) PIPE SIZES GREATER THAN SERVICE PIPE.
2. WATER METER SHALL BE SIZED, FURNISHED AND INSTALLED BY CITY FORCES.
3. CASTING–SEE DETAIL 300.30
4. INLET AND OUTLET OPENINGS TO BE FURNISHED W/APPROVED GASKET FROM MANUFACTURER OR A FIELD INSTALLED GASKET APPROVED BY CITY INSPECTOR.
5. CONCRETE LID SHALL BE FASTENED TO STRUCTURE WITH APPROVED TYPE S MORTAR.
6. DOMESTIC SERVICE PIPING MATERIAL SHALL BE DUCTILE IRON PIPE FROM GATE VALVE TO GATE VALVE, THROUGH PIT. REMAINDER OF PIPING MATERIAL SHALL BE C 900 OR DUCTILE IRON.
7. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON CUSTOMER SERVICE SIDE OF VAULT WHICH IS TO BE OWNED AND MAINTAINED BY CUSTOMER.
8. REFER TO CITY CODE SECTION 13.08.050 FOR ADDITIONAL REQUIREMENTS.

REVISED: 01/04/23

CITY OF SALISBURY SALISBURY, MD	APPROVED _____ DATE 2/23/23 CITY ENGINEER	COMBINATION DOMESTIC FIRE SERVICE DOMESTIC 4" OR GREATER FIRE SERVICE 4" OR GREATER	DATE 03/24/99 SCALE NONE DWG. NO. STD30026 STD. NO. 300.26

NOTES

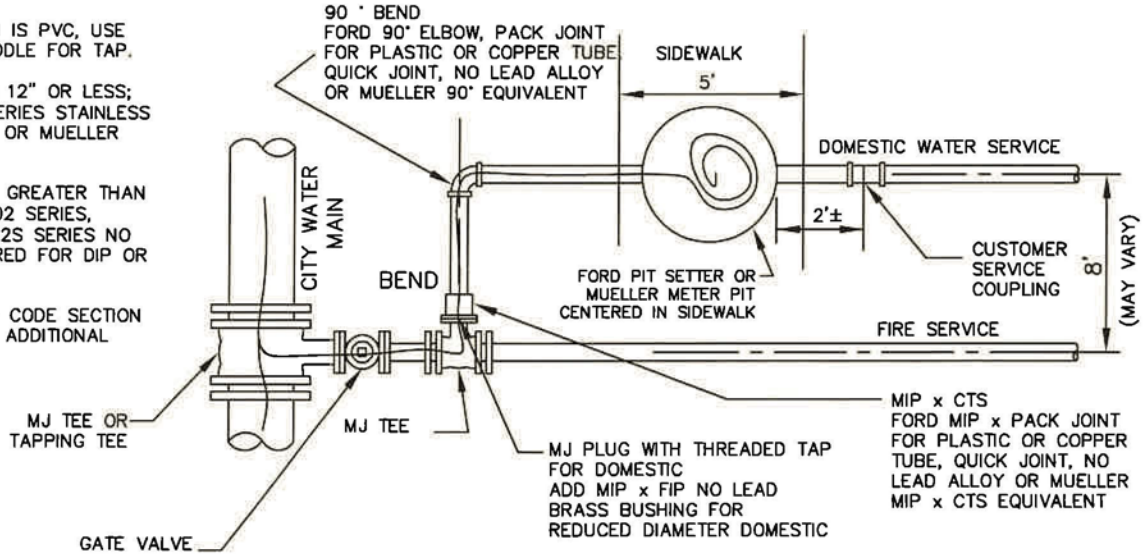
1. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.
2. IF WATER MAIN IS PVC, USE APPROVED SADDLE FOR TAP.
3. FOR PVC MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE OR MUELLER EQUIVALENT
   FOR PVC MAIN GREATER THAN 12" FORD FC202 SERIES, MUELLER – DR2S SERIES NO SADDLE REQUIRED FOR DIP OR CIP
4. REFER TO CITY CODE SECTION 13.08.050 FOR ADDITIONAL REQUIREMENTS



DOMESTIC WATER SERVICE 1" TO 3-3/4"
FIRE SERVICE 1" TO 3-3/4"

NOTES

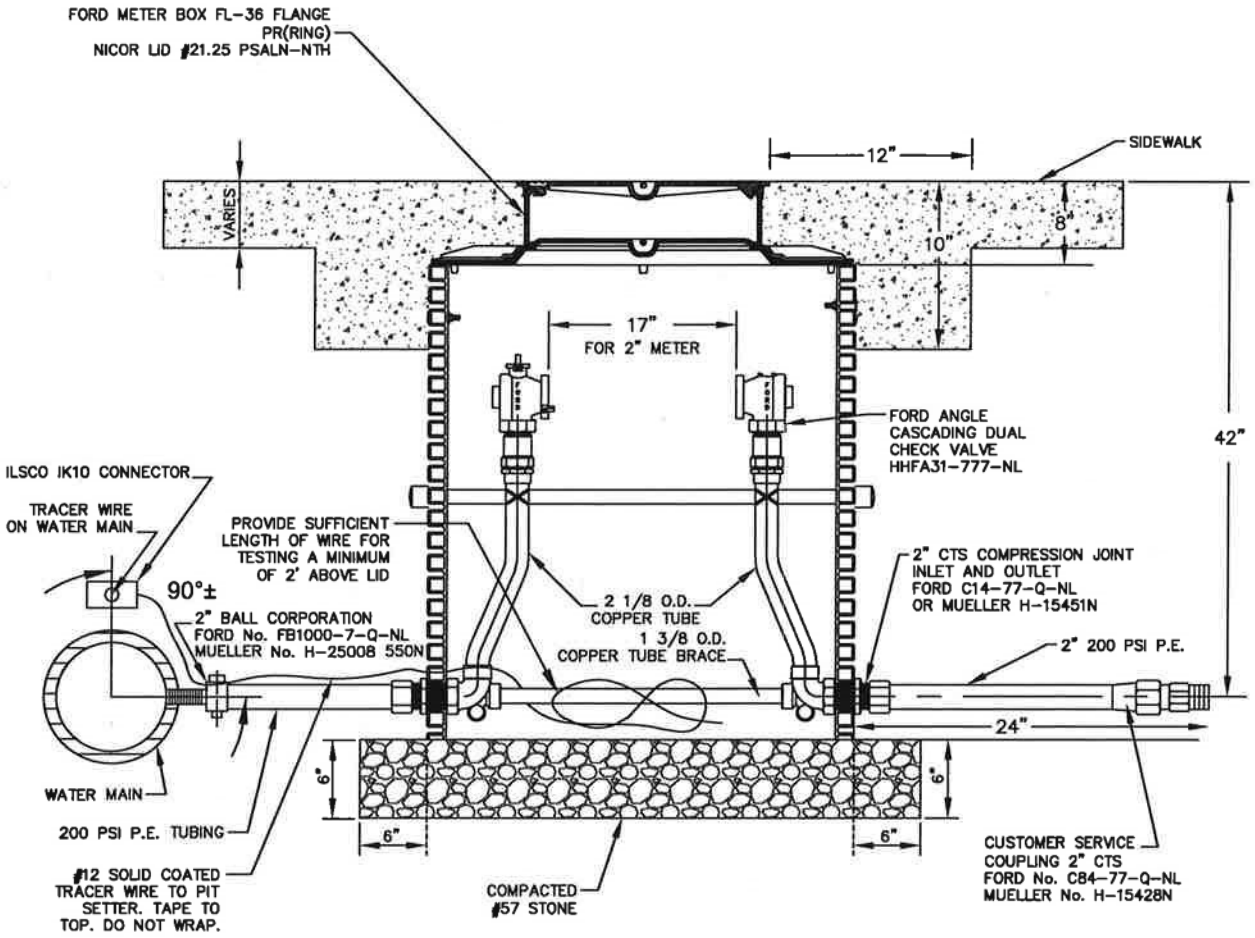
1. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.
2. IF WATER MAIN IS PVC, USE APPROVED SADDLE FOR TAP.
3. FOR PVC MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE OR MUELLER EQUIVALENT
   FOR PVC MAIN GREATER THAN 12" FORD FC202 SERIES, MUELLER – DR2S SERIES NO SADDLE REQUIRED FOR DIP OR CIP
4. REFER TO CITY CODE SECTION 13.08.050 FOR ADDITIONAL REQUIREMENTS



DOMESTIC WATER SERVICE 1" - 3-3/4"
FIRE SERVICE 4" OR GREATER

REVISED: 01/04/23

CITY OF SALISBURY SALISBURY, MD	APPROVED 2/23/23 DATE CITY ENGINEER	CONFIGURATION: COMBINATION DOMESTIC FIRE SERVICE "PLAN VIEW"	DATE 1/29/08 SCALE NONE DWG. NO. STD30029 STD. NO. 300.29

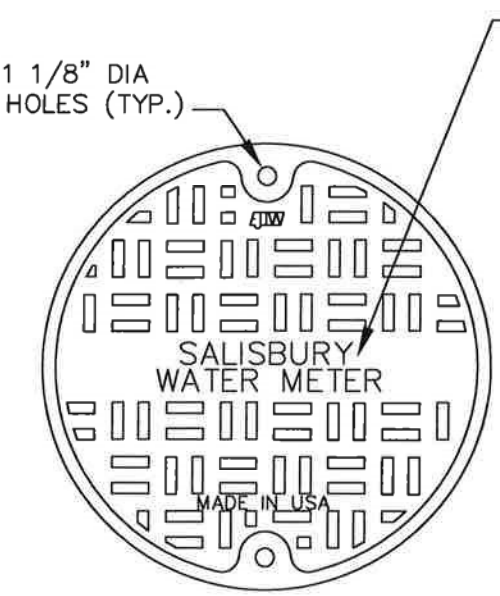


NOTES

1. WATER METER–SHALL BE SIZED, FURNISHED & INSTALLED BY CITY FORCES.
2. VAULT AREA BASE SHALL BE 6" COMPACTED #57 STONE.
3. USE APPROVED SADDLE FOR TAP.
4. FOR MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE MUELLER SS SERIES STAINLESS STEEL SADDLE FOR 2" SERVICE DOUBLE STUD 7½" LENGTH

   FOR MAIN GREATER THAN 12"; FORD FC202 SERIES MUELLER – DR2S SERIES
5. FORD PITSETTER–FORD NO. PMBHH–788–36–42–G–NL NO BYPASS
6. PE TUBING SHALL BE CLASS 200, SDR–9, CTS–OD, 200 PSI, INSTALLED WITH #12 SOLID COATED COPPER TRACER WIRE FROM CORP. STOP TO SUPPLY SIDE ANGLE VALVE. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS. SEE WATER MAIN MATERIALS, WM–6.
7. 2" PIT SETTERS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE PIT SETTER LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. SLOPE THE COLLAR IN SUCH AWAY AS TO CREATE POSITIVE DRAINAGE.
8. SEE STD 300.15 FOR GUARD DETAIL.

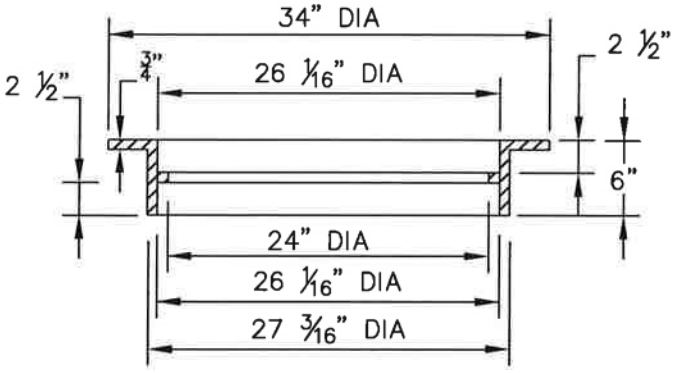
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	2" WATER SERVICE W/FORD PIT SETTER	DATE 12/14/01 SCALE NONE DWG. NO. STD30027 STD. NO. 300.27



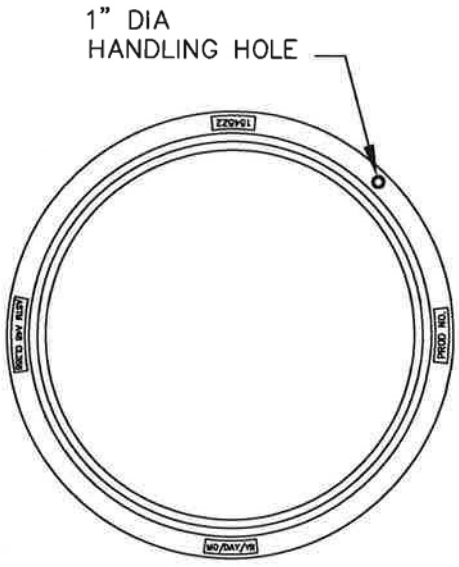
PLAN

SCALE: N.T.S.

BOTTOM VIEW

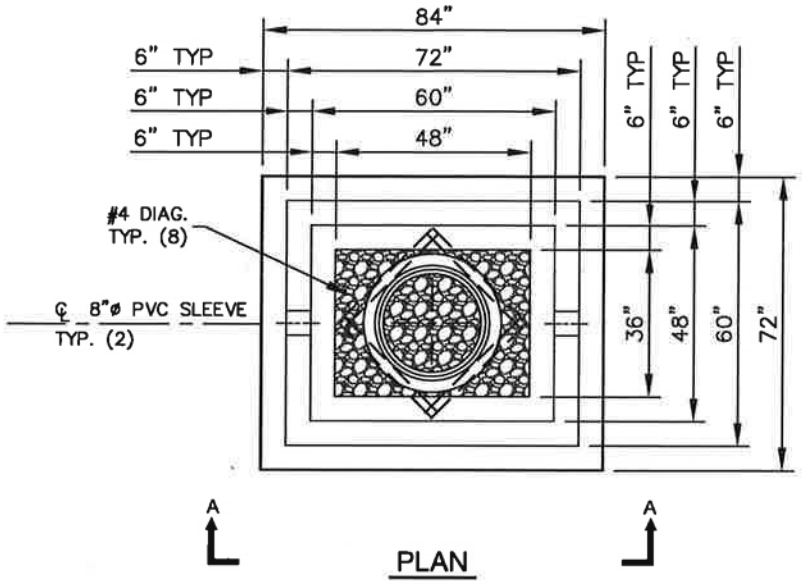


FRAME–GRAY CAST IRON
ASTM A48 CL35B

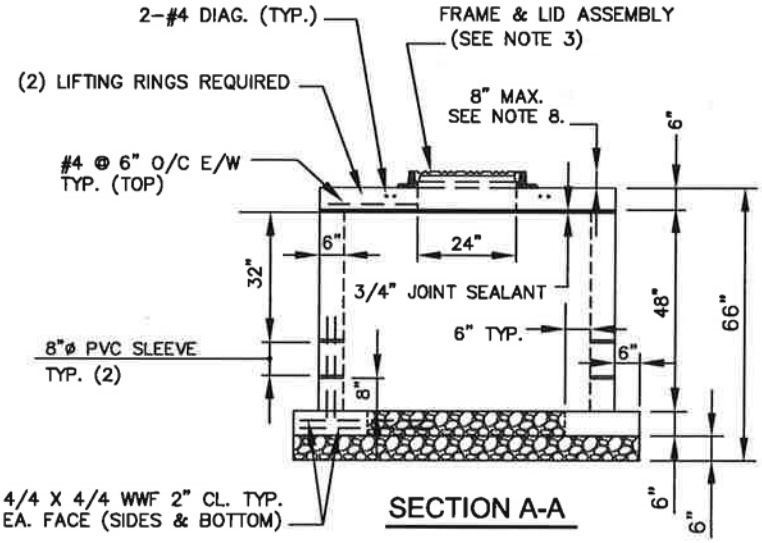


BOTTOM VIEW

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollock CITY ENGINEER	**CIRCULAR FRAME & COVER FOR PRE-CAST WATER METER VAULTS**	DATE 4/13/81 SCALE NONE DWG. NO. STD30030 STD. NO. 300.30



PLAN



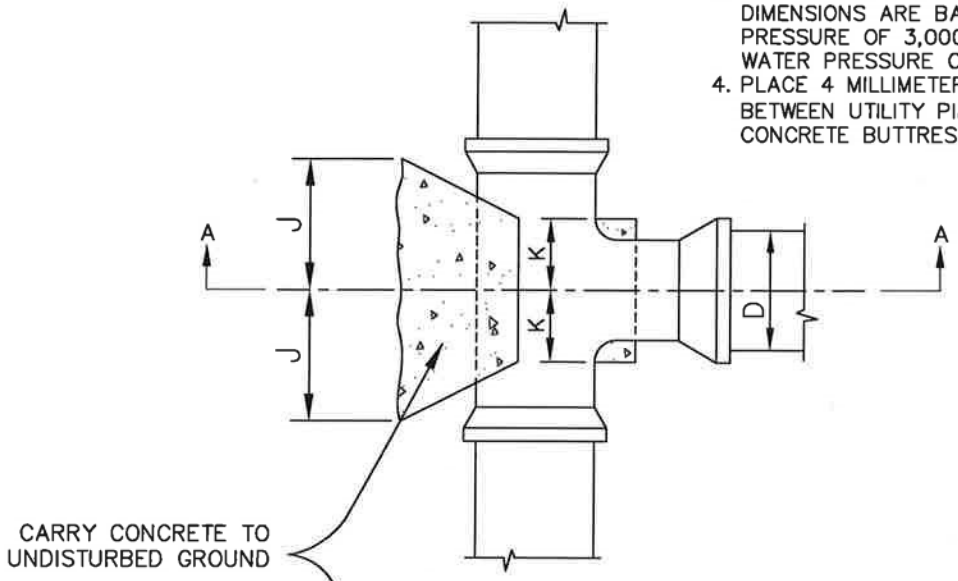
SECTION A-A

NOTES:

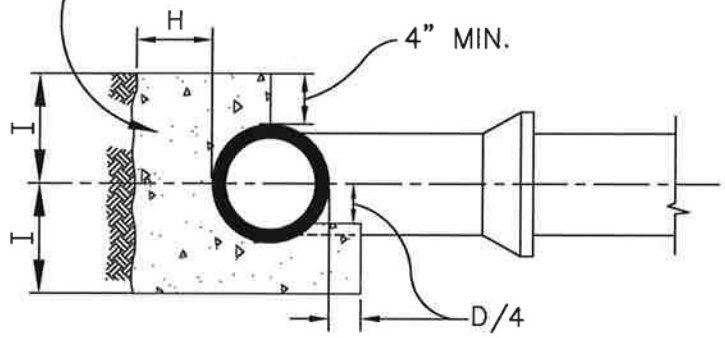
1. CONCRETE TO BE 5,000 PSI @ 28 DAYS
2. INLET AND OUTLET OPENINGS TO BE FURNISHED WITH APPROVED GASKETS FROM MANUFACTURER OR A FIELD INSTALLED GASKET APPROVED BY CITY INSPECTOR.
3. FRAME & LID ASSEMBLY SEE 300.30
4. SLEEVES SHALL BE PVC PIPE
5. VAULT AREA BASE SHALL BE 6" COMPACTED # 57 STONE
6. OPENING IN 6" THICK TOP SLAB SHALL BE 24" ROUND
7. INSIDE DIMENSIONS TO BE 4'W x 5'L WITH A 3'W x 4'L FLOOR OPENING.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	PRE-CAST CONCRETE WATER METER VAULT & LID	DATE 1/30/08 SCALE N.T.S. DWG. NO. STD30031 STD. NO. 300.31

NOTES:
1. SHALL APPLY TO CUT IN TEES AND TAPPING TEES.
2. ALL CONCRETE TO BE 2,500 PSI.
3. BUTTRESS DIMENSIONS SHOWN ARE MINIMUM. DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 3,000 P.S.F. AND STATIC WATER PRESSURE OF 10 P.S.I.
4. PLACE 4 MILLIMETER PLASTIC SHEETING BETWEEN UTILITY PIPE AND/OR FITTING AND CONCRETE BUTTRESS.



PLAN



SECTION A–A

BUTTRESS FOR TEES								
SIZE OF BRANCH								
D	6"	8"	10"	12"	16"	20"	24"	30"
H	8"	9"	10"	1'–0"	1'–2"	1'–4"	1'–6"	1'–9"
I	8"	10"	1'–0"	1'–3"	1'–8"	2'–1"	2'–6"	3'–1"
J	7"	9"	1'–0"	1'–2"	1'–6"	1'–11"	2'–4"	2'–10"
K	6"	8"	8"	8"	10"	1'–2"	1'–4"	1'–6"

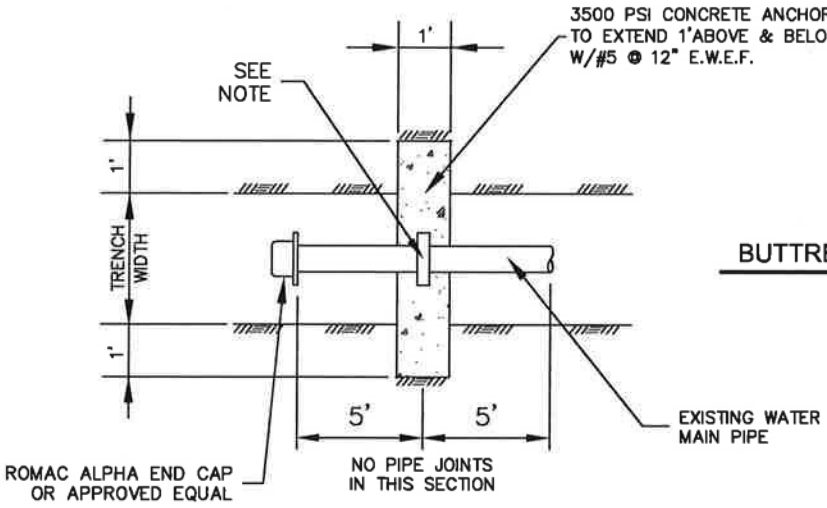
CITY OF SALISBURY
SALISBURY, MD

APPROVED
1/2/18 DATE
Amanda Pollack
CITY ENGINEER

STANDARD WATER DETAILS
BUTTRESS FOR TEES

DATE	12/03/98
SCALE	NONE
DWG. NO.	STD30040
STD. NO.	300.40

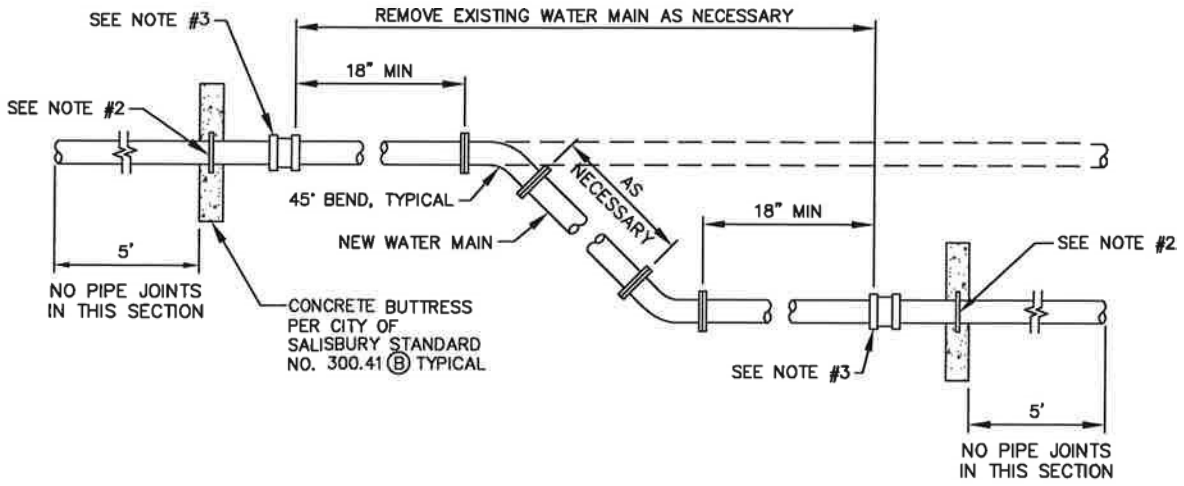
NOTE:
PVC – MEGALUG SERIES 2000 PV MJ RESTRAINT OR APPROVED EQUAL
DIP – MEGALUG SERIES 1100 MJ RESTRAINT OR APPROVED EQUAL



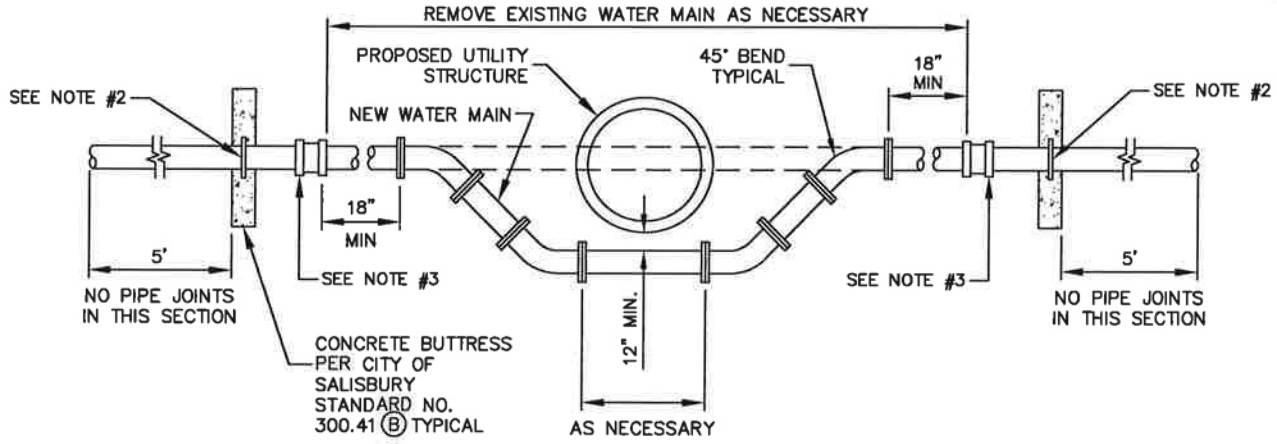
BUTTRESS FOR CAPS

PLAN

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD INSTALLATION FOR END CAPS ON EXISTING WATER MAINS	DATE 12/03/98 SCALE NONE DWG. NO. STD30041 STD. NO. 300.41



HORIZONTAL REALIGNMENT (A)



VERTICAL REALIGNMENT (B)

NOTES:

1. TO RAISE WATER MAIN USE INVERSE OR MIRROR IMAGE OF VERTICAL REALIGNMENT
2. PVC–MEGALUG SERIES 2000 PV MJ RESTRAINT OR APPROVED EQUAL
   DIP–MEGALUG SERIES 1100 MJ RESTRAINT OR APPROVED EQUAL
3. STANDARD ALPHA, ALPHA TRANSITION RESTRAINED COUPLING MANUFACTURED BY ROMAC INDUSTRIES INC OR SERIES 3800 MEGA COUPLING MANUFACTURED BY EBAA IRON INC OR APPROVED EQUAL
4. MUST USE RESTRAINING GASKETS OR ALPHA COUPLINGS FOR ALL PIPE JOINTS.

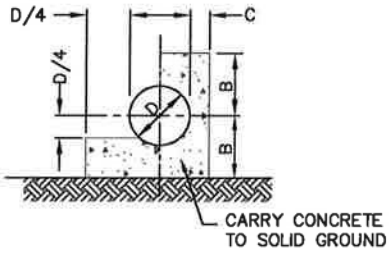
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	**WATER MAIN REALIGNMENT DETAILS**	DATE 1/30/08 SCALE NONE DWG. NO. STA30042 STD. NO. 300.42

NOTES:

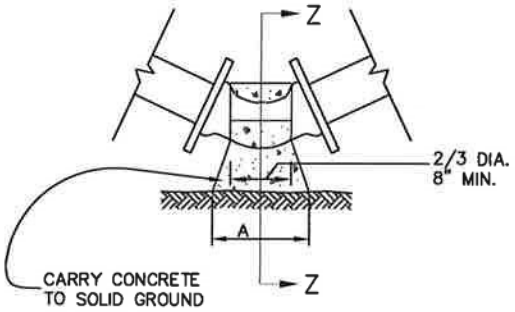
1. ALL CONCRETE TO BE 2,500 PSI.
2. BUTTRESS DIMENSIONS SHOWN ARE MINIMUM. DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 3,000 P.S.F. AND STATIC WATER PRESSURE OF 10 P.S.I.

* 3. PLACE 4 MILLIMETER PLASTIC SHEETING BETWEEN UTILITY PIPE AND/OR FITTING AND CONCRETE BUTTRESS.
FOR PLAN A ONLY

BEND		6"	8"	10"	12"	16"	20"	24"	30"
11 1/4°	A	8"	8"	10"	1'-0"	1'-4"	1'-8"	2'-0"	2'-6"
	B	7"	8"	9"	10"	1'-0"	1'-2"	1'-4"	1'-7"
	C	7"	7"	8"	8"	9"	10"	1'-0"	1'-1"
22 1/2°	A	9"	1'-0"	1'-6"	1'-9"	2'-3"	3'-0"	3'-6"	4'-2"
	B	7"	8"	9"	10"	1'-0"	1'-2"	1'-4"	1'-7"
	C	8"	9"	10"	11"	1'-2"	1'-4"	1'-6"	1'-9"
45°	A	1'-3"	1'-8"	2'-1"	2'-6"	3'-4"	4'-2"	5'-0"	6'-3"
	B	7"	8"	9"	11"	1'-3"	1'-6"	1'-8"	2'-0"
	C	8"	9"	10"	11"	1'-2"	1'-4"	1'-9"	2'-3"
90°	A	2'-0"	2'-6"	3'-0"	3'-6"	5'-0"	SPECIAL DESIGN		
	B	0'-6"	0'-9"	1'-0"	1'-3"	1'-6"			
	C	1'-10"	1'-9"	1'-8"	1'-7"	1'-5"			



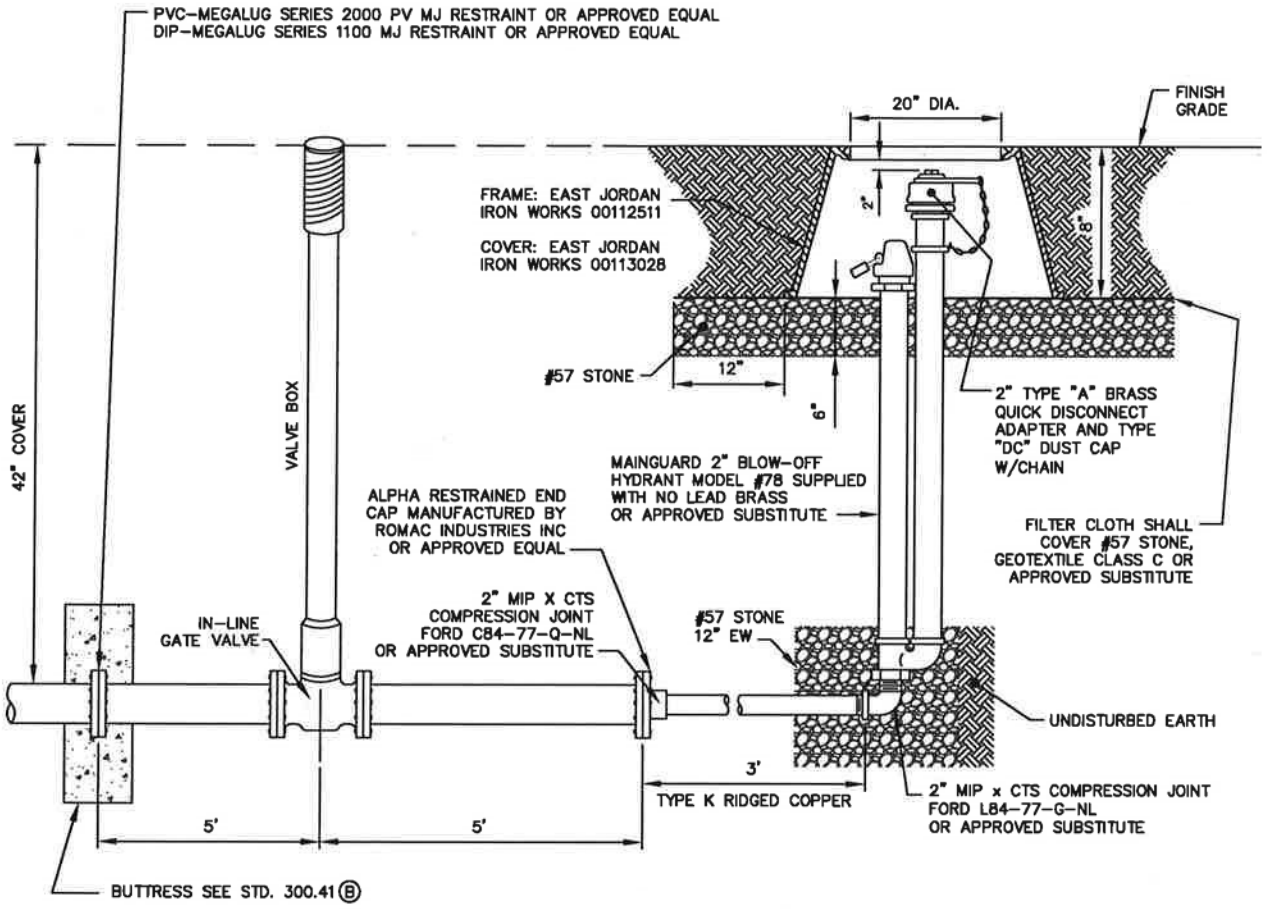
SECTION Z-Z



PLAN

BUTTRESS FOR HORIZONTAL BENDS

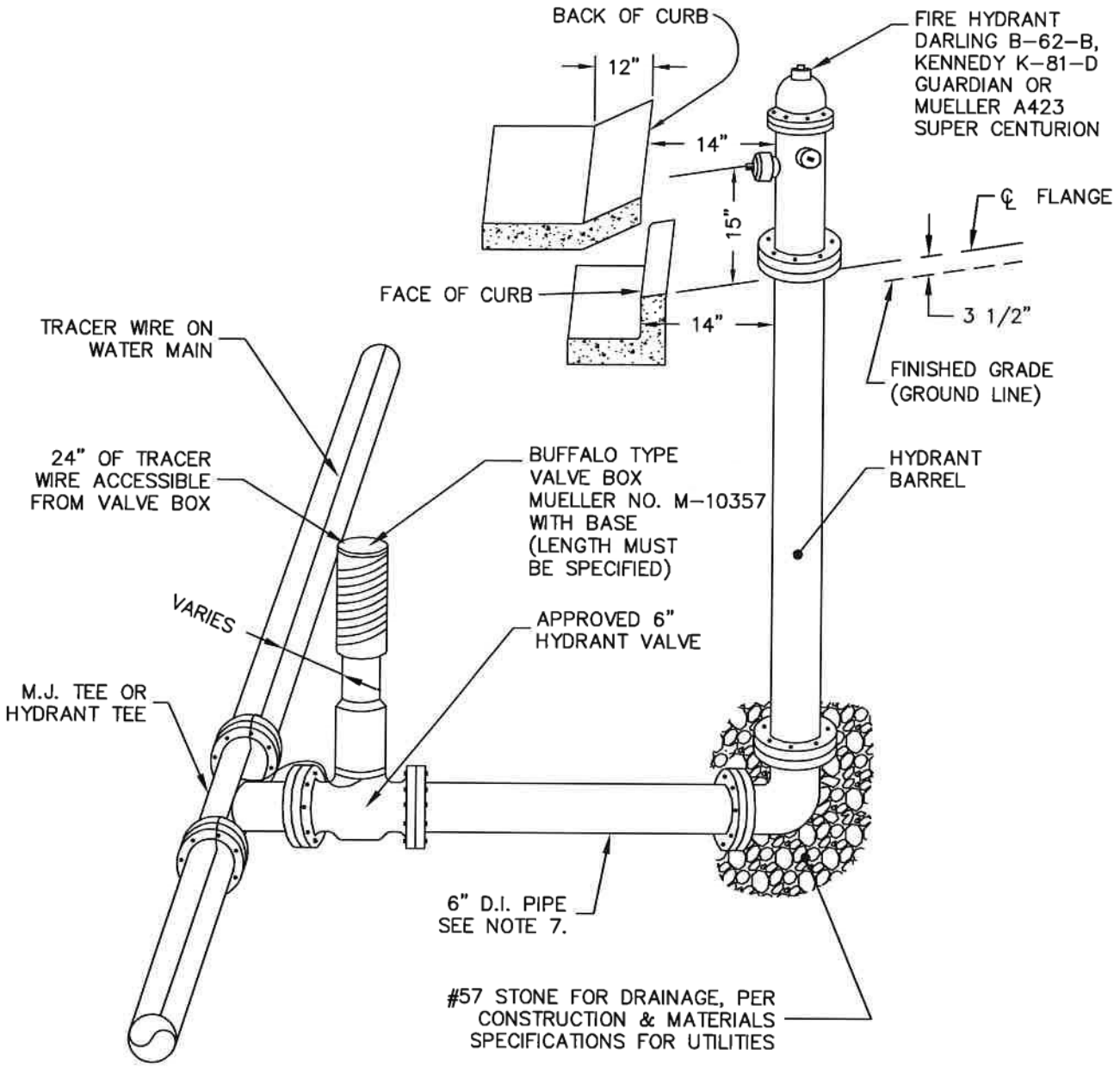
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD WATER DETAILS BUTTRESS FOR HORIZONTAL BENDS	DATE 12/03/98 SCALE NONE DWG. NO. STD30043 STD. NO. 300.43



NOTE:

1. BLOW OFF HYDRANTS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE BLOW OFF HYDRANT LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 STONE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. SLOPE THE COLLAR IN SUCH A WAY AS TO CREATE POSITIVE DRAINAGE. THE CONCRETE COLLAR SHALL BE REMOVED ENTIRELY PRIOR TO PAVING.
2. TRACER WIRE TO EXTEND 2' ABOVE VALVE BOX AND LAMP HOLE FOR ACCESS.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	BLOW-OFF HYDRANT	DATE 1/30/08 SCALE NONE DWG. NO. STD30051 STD. NO. 300.51



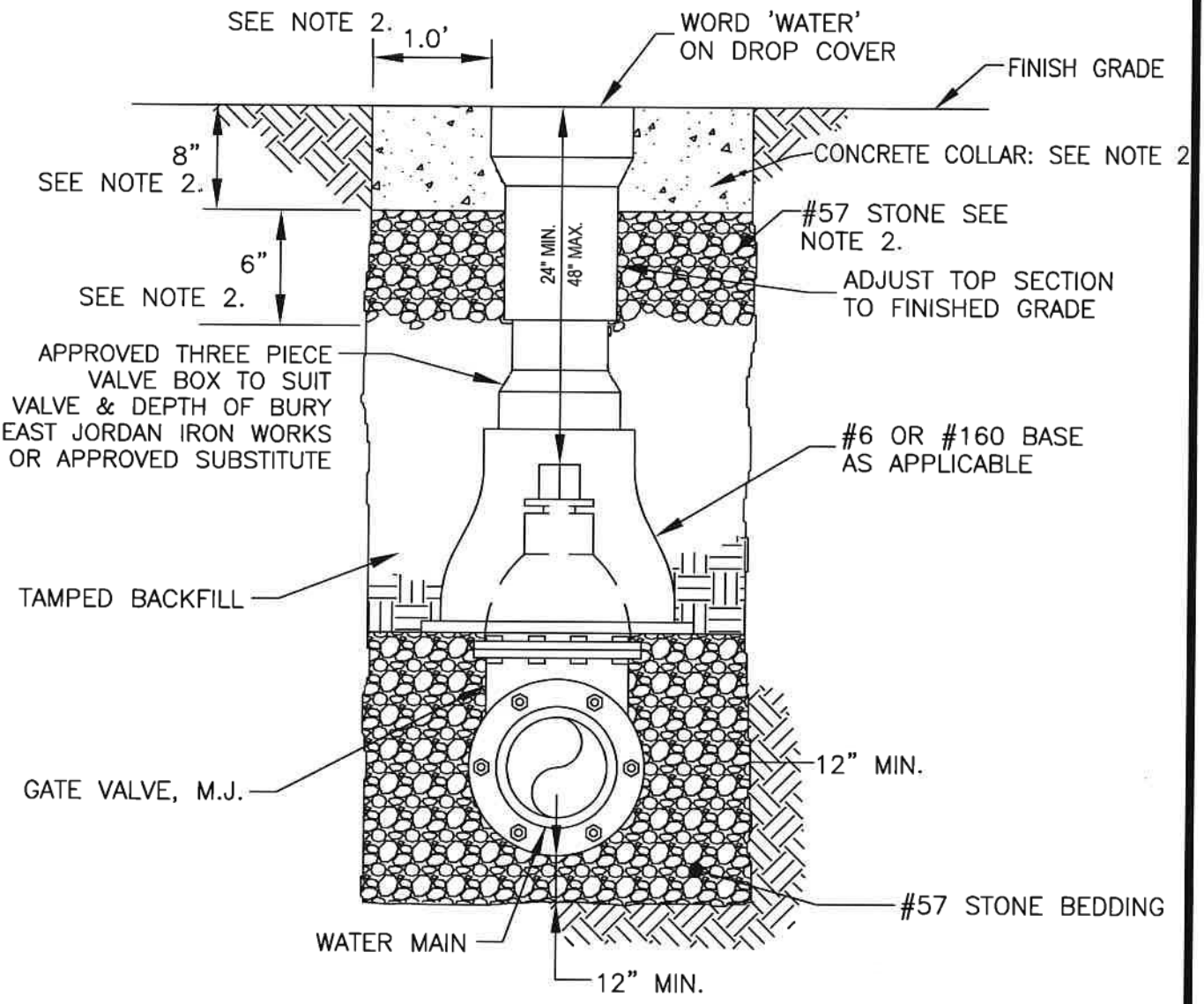
NOTES:

1. HYDRANT CHAINS ARE TO BE REMOVED @ TIME OF INSTALLATION.
2. MAINTAIN 3' CLEARANCE FROM CENTER OF HYDRANT FOR ALL ABOVE GROUND OBJECTS.
3. HYDRANTS SHALL NOT BE PLACED IN THE QUADRANT/RADIUS AREA OF A CURB RETURN FOR STREET INTERSECTIONS AND DRIVEWAY ENTRANCES.
4. HYDRANT LEAD SHALL BE DUCTILE IRON PIPE.
5. RESTRAIN ALL FITTINGS W/MEGALUG PER CITY SPECIFICATIONS.
6. TRACER WIRE SHALL HAVE A MECHANICAL BARREL SPLICE (ILSCO IK10) AT ALL SPLICES. PVC WATER MAINS REQUIRE #12 SOLID COPPER COATED TRACER WIRE TAPED TO THE TOP OF THE PIPE IN 10' INTERVALS, TERMINATING AT ALL VALVE BOXES. 24" MINIMUM OVERHANG AT TOP OF VALVE BOX.
7. MUST USE APPROVED BELL RESTRAINTS OR ALPHA COUPLINGS FOR ALL PIPE JOINTS OF THE HYDRANT LEAD.

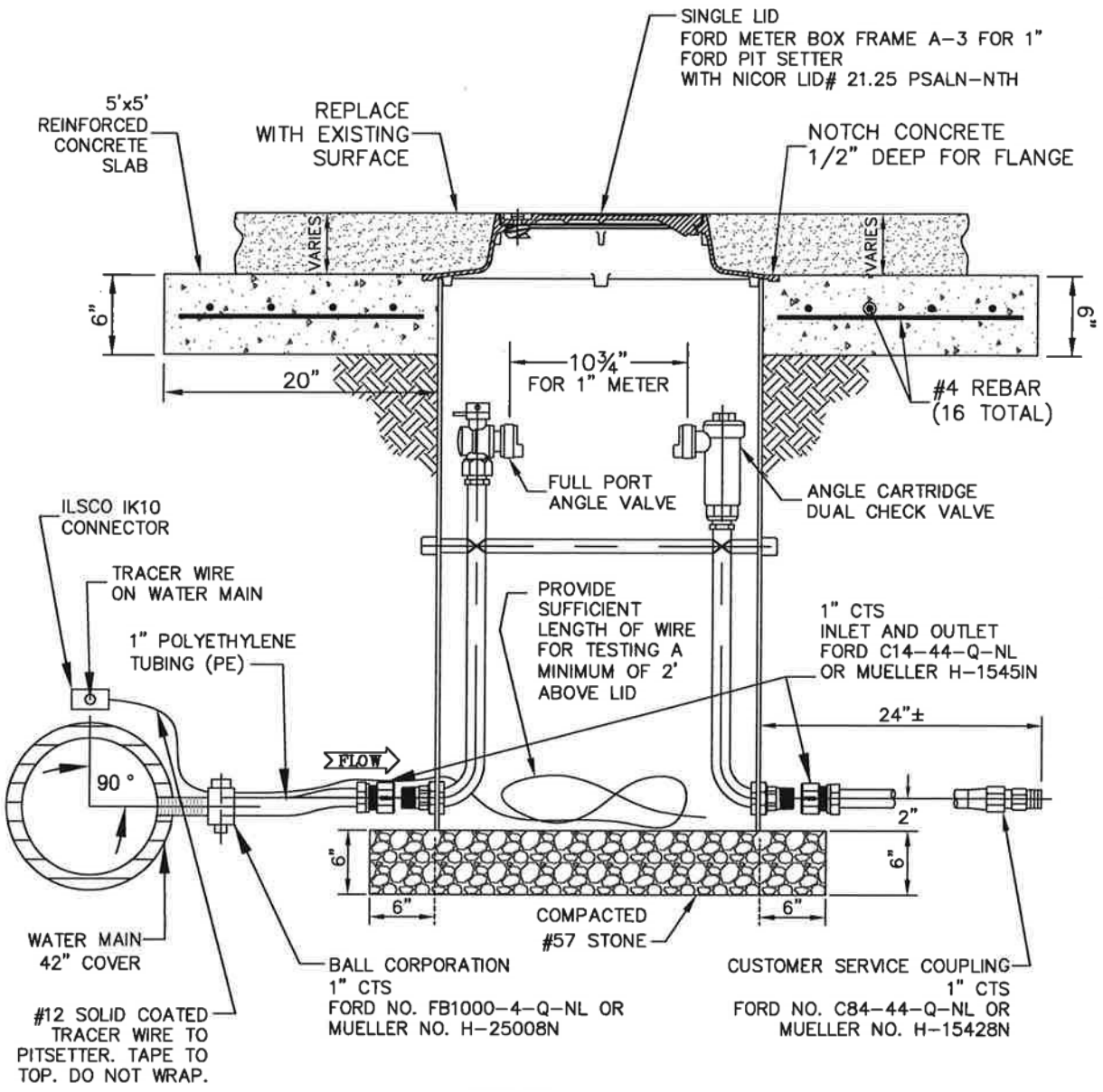
CITY OF SALISBURY SALISBURY, MD	APPROVED 2/1/19 DATE Amanda Pollack CITY ENGINEER	STANDARD INSTALLATION FIRE HYDRANT	DATE 08/29/86 SCALE NONE DWG. NO. STD30055 STD. NO. 300.55

NOTES:

1. EXTEND TRACER WIRE THROUGH VALVE BOX AND TERMINATE AT 24" ABOVE FINISH GRADE. LOOP EXCESS INTO VALVE BOX.
2. ALL VALVE BOXES INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE VALVE BOX LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 STONE AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE VALVE BOX LIDS ARE ADJUSTED TO FINISHED GRADE. SLOPE THE COLLAR AROUND VALVE BOX IN A WAY AS TO CREATE POSITIVE DRAINAGE AWAY FROM THE LID. THE CONCRETE COLLAR SHALL BE REMOVED ENTIRELY PRIOR TO PAVING.
3. SEE STD 300.15 FOR GUARD DETAIL.



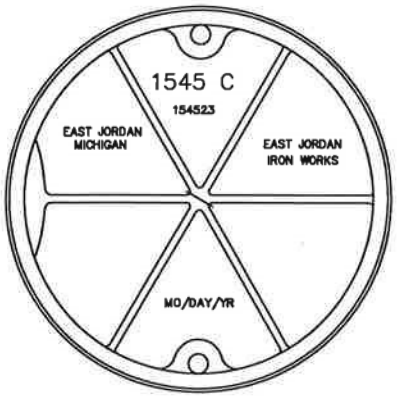
CITY OF SALISBURY SALISBURY, MD	APPROVED 2/1/19 DATE Amanda Pollack CITY ENGINEER	GATE VALVE INSTALLATION	DATE	11/02/09
			SCALE	NONE
			DWG. NO.	STD30056
			STD. NO.	300.56



NOTES

1. WATER METER-SHALL BE SIZED, FURNISHED & INSTALLED BY CITY FORCES.
2. VAULT AREA BASE SHALL BE 6" COMPACTED #57 STONE.
3. IF WATER MAIN IS PLASTIC, USE APPROVED SADDLE FOR TAP.
4. FOR PVC MAIN 12" OR LESS:
   FORD FS313 SERIES STAINLESS STEEL SADDLE
5. FOR 1" SERVICE SINGLE STUD 5" LENGTH:
   MUELLER SS SERIES STAINLESS STEEL SERVICE SADDLE
6. FORD PITSETTER-FORD (SHOWN)
   NO. PSBHC-488-20-36-Q-NL-NO BYPASS
   MUELLER 1" RIGID COPPER SINGLE METER PIT
   W/OPTION CODE 000590
7. PE TUBING SHALL BE CLASS 200, SDR-9, CTS-OD, 200 PSI, INSTALLED WITH #12 SOLID COATED COPPER TRACER WIRE FROM CORP. STOP TO SUPPLY SIDE ANGLE VALVE. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.

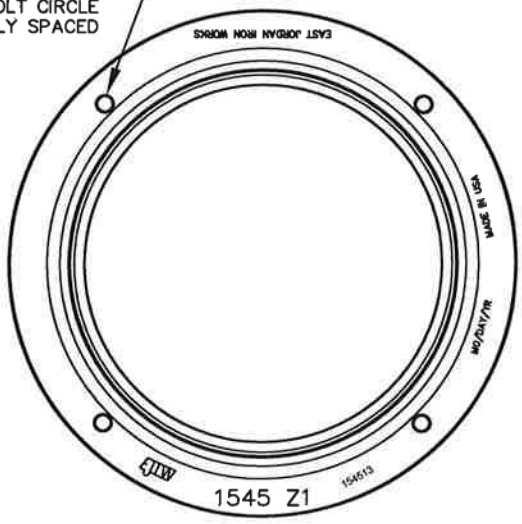
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	TRAFFIC BEARING 1" WATER SERVICE	DATE 01/01/17 SCALE NONE DWG. NO. STD30057 STD. NO. 300.57



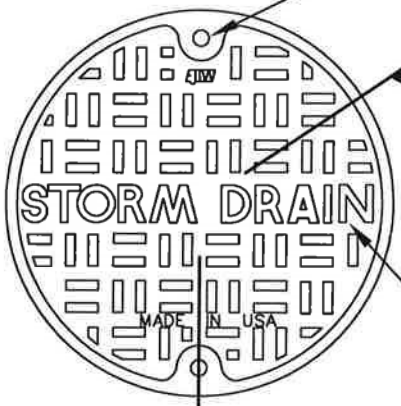
BOTTOM VIEW

EAST JORDAN (SHOWN)
FRAME #154514
COVER #154524 (STORM WATER)
COVER #154523 (SANITARY SEWER)
NEENAH FOUNDRY
FRAME R-1565
COVER R-1565
OR APPROVED SUBSTITUTE

(4) 1" DIA (25mm) HOLES ON 30 1/4" DIA BOLT CIRCLE EQUALLY SPACED



1 1/8" DIA. (29mm) HOLES



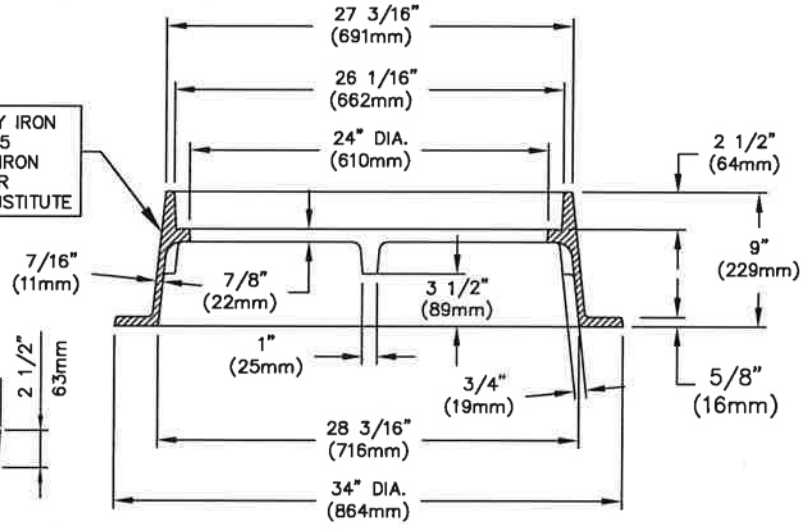
A

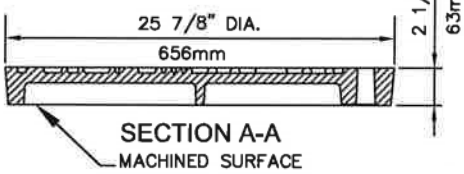
A

SPECIFY LETTERING (SANITARY SEWER OR STORM WATER)
2 1/2" (64) RAISED LETTERS (FLUSH WITH TOP)

CAST IRON
MIN. AVG. WEIGHT
FRAME 180 LBS.
COVER 175 LBS.

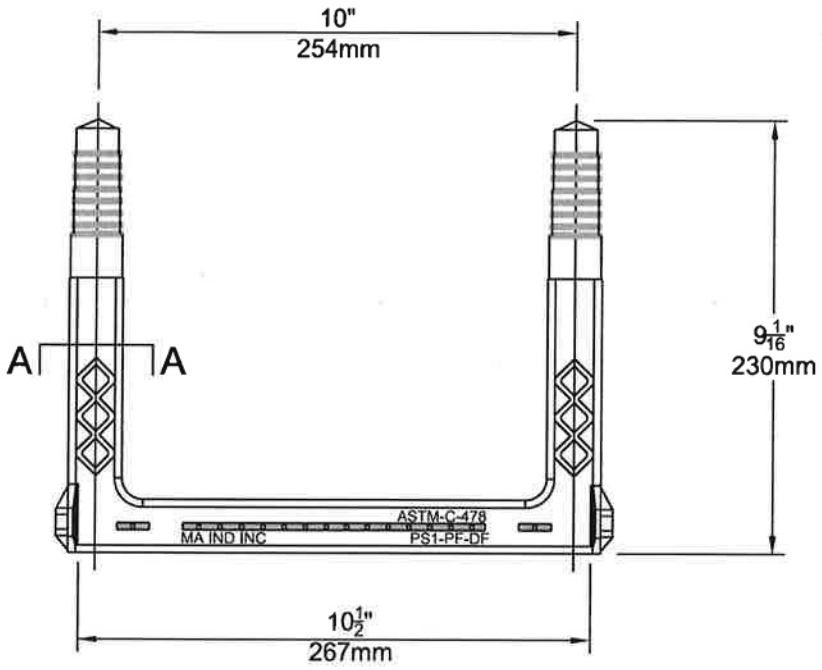
FRAME - GRAY IRON ASTM A48 CL35 EAST JORDAN IRON WORKS, INC. OR APPROVED SUBSTITUTE

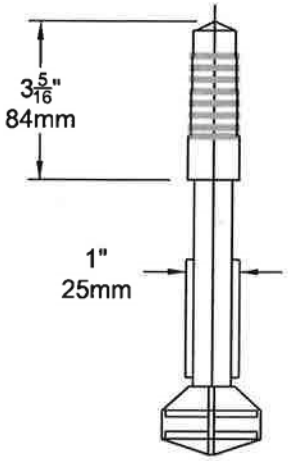


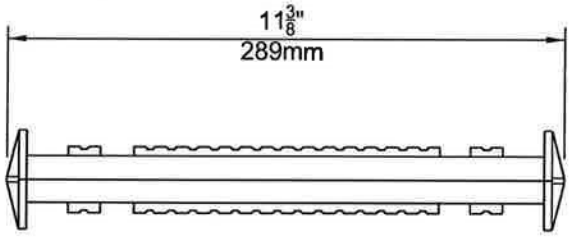


SECTION A-A
MACHINED SURFACE

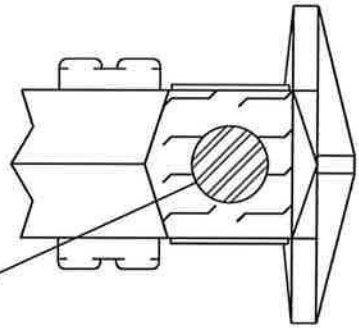
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	MANHOLE FRAME & COVER SANITARY SEWER OR STORM WATER	DATE 1/04/01 SCALE NONE DWG. NO. STD40010 STD. NO. 400.10



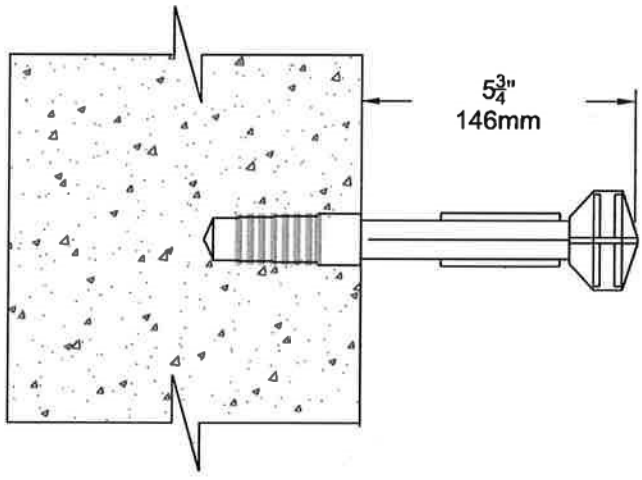




COPOLYMER POLYPROPYLENE PLASTIC
13mm ($\frac{1}{2}$") GRADE 60 STEEL REINFORCEMENT

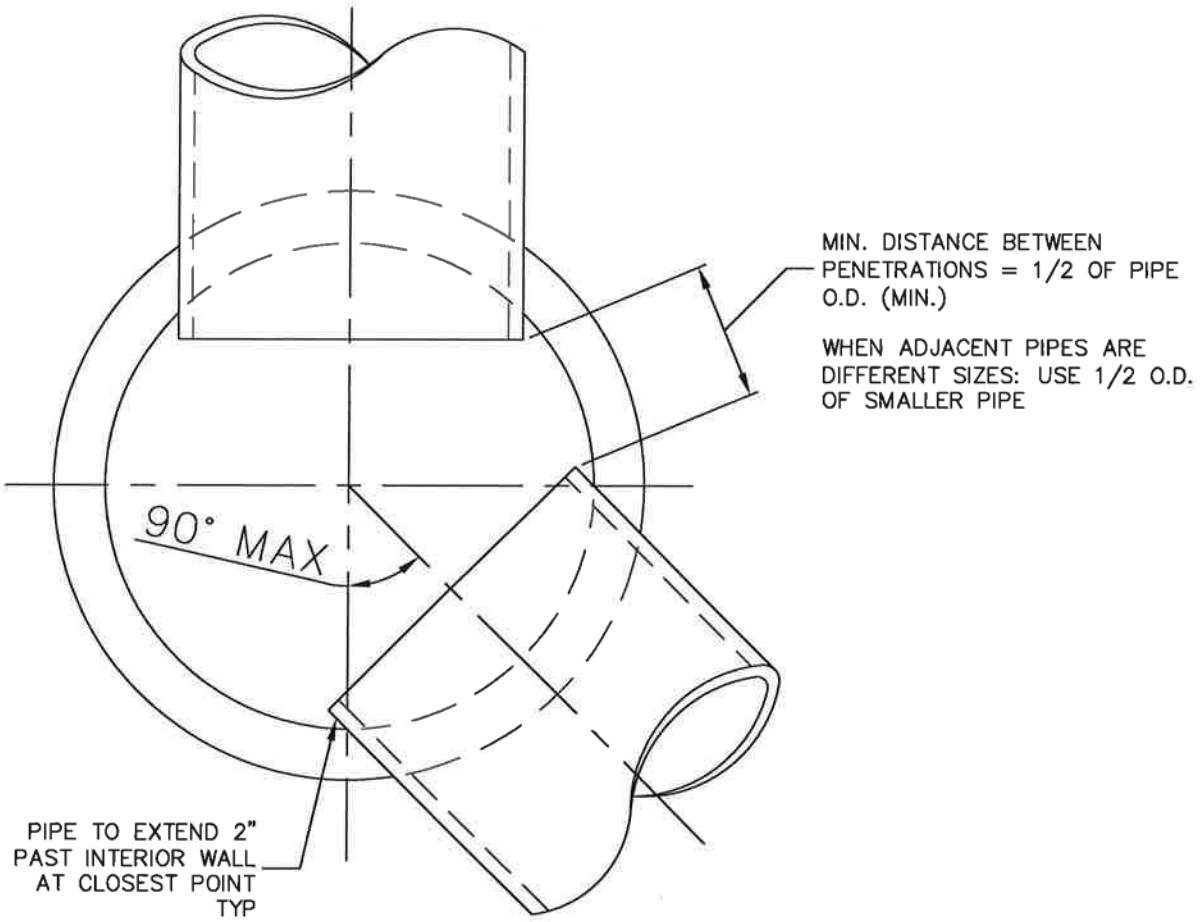


SECTION A-A



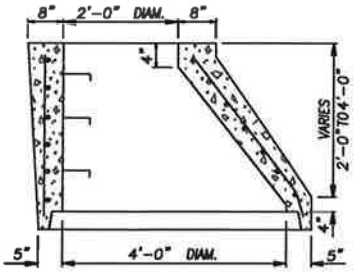
MEETS: ASTM C-478
ASTM D-4101
ASTM A-615
AASHTO M-199

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	MANHOLE STEPS SANITARY SEWER OR STORM WATER	DATE 03/01/12 SCALE NONE DWG. NO. STD40011 STD. NO. 400.11

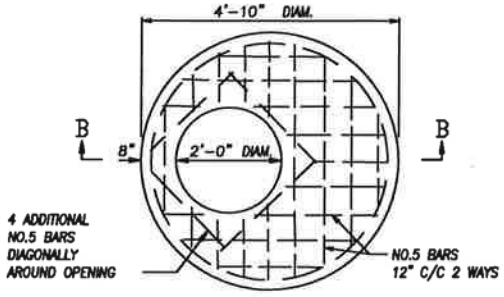


PLAN VIEW OF MANHOLE

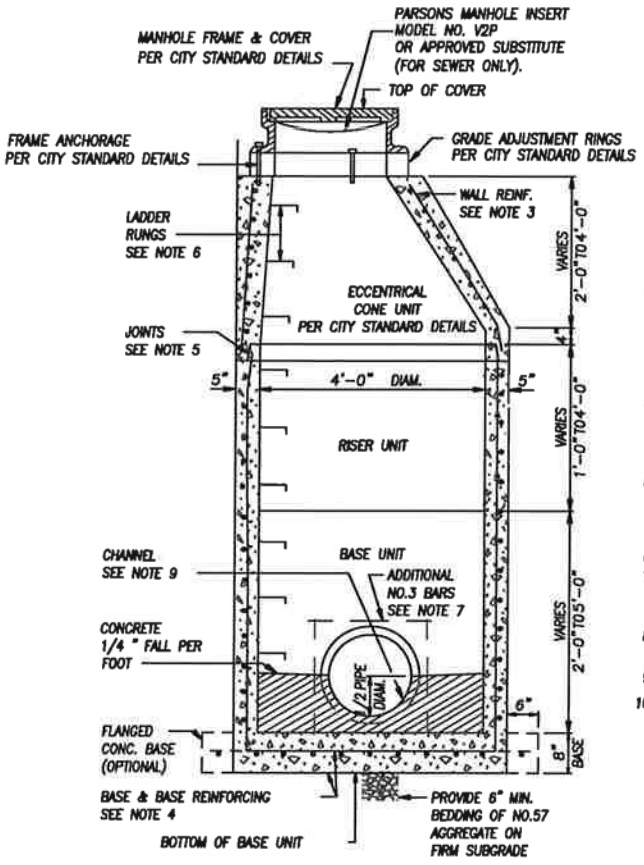
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	MANHOLE CONFIGURATIONS	DATE 8/29/86 SCALE NONE DWG. NO. STD40012 STD. NO. 400.12



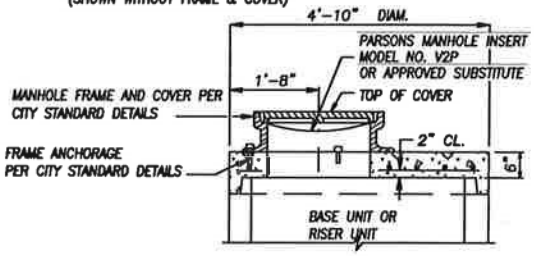
ALTERNATE ECCENTRICAL CONE UNIT



FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



SECTION VIEW

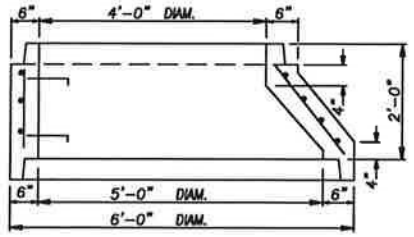


SECTION B–B

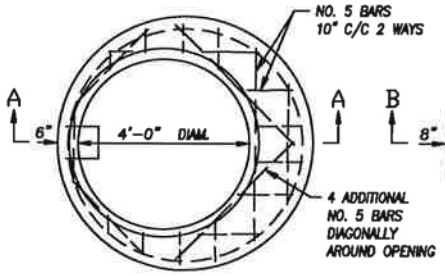
NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS. RISER UNITS AND ECCENTRICAL CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615.GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 361 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

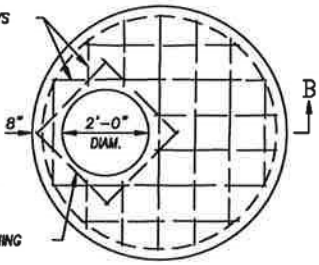
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	48" DIAMETER MANHOLE FOR PIPES UP TO 24"	DATE 02/04/10 SCALE N.T.S. DWG. NO. 400.13 STD. NO. 400.13



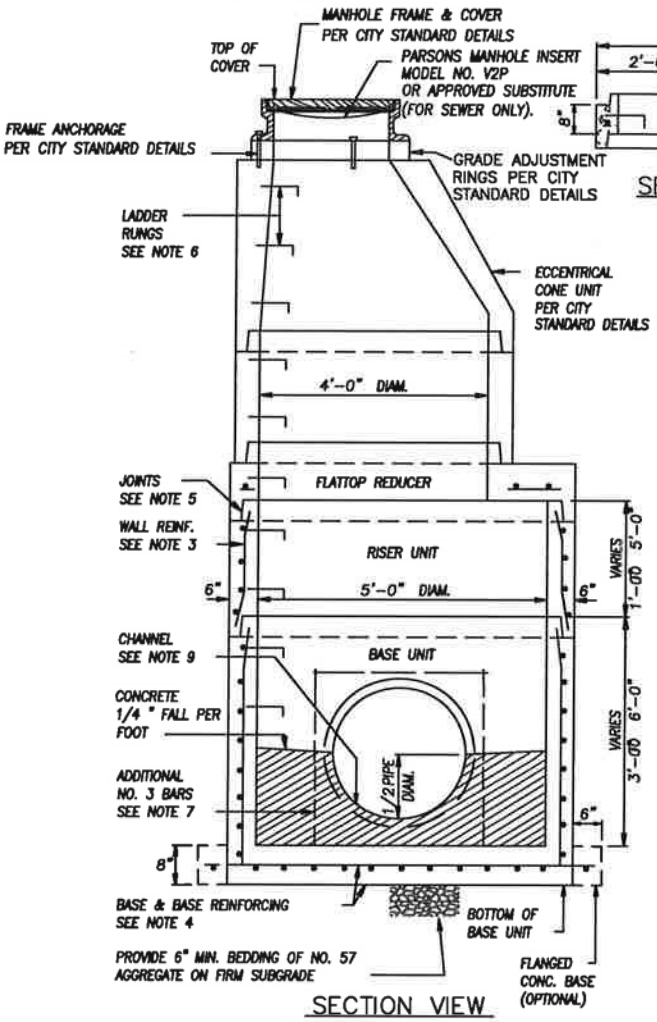
ECCENTRICAL CONE REDUCER
(ALTERNATE FOR FLATTOP REDUCER)



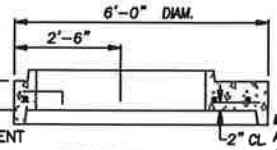
FLATTOP REDUCER



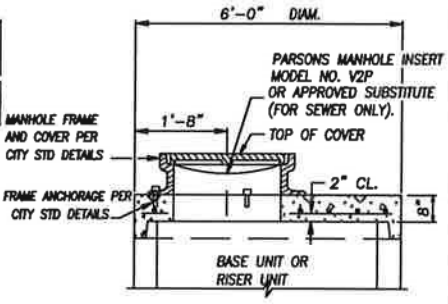
FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



SECTION VIEW



SECTION A–A



SECTION B–B

NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
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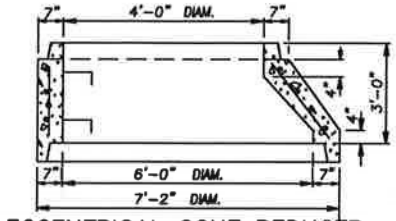
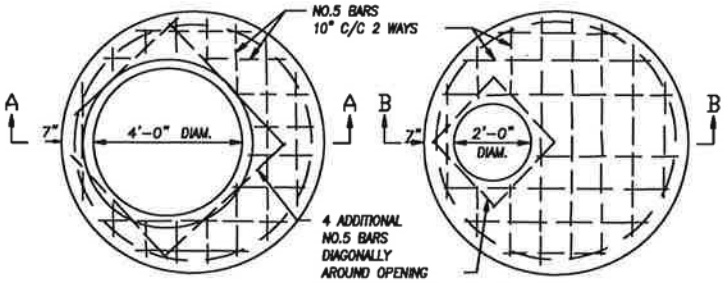
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	60" DIAMETER MANHOLE FOR 27" TO 36" PIPES	DATE 02/04/10 SCALE N.T.S. DWG. NO. STD40014 STD. NO. 400.14

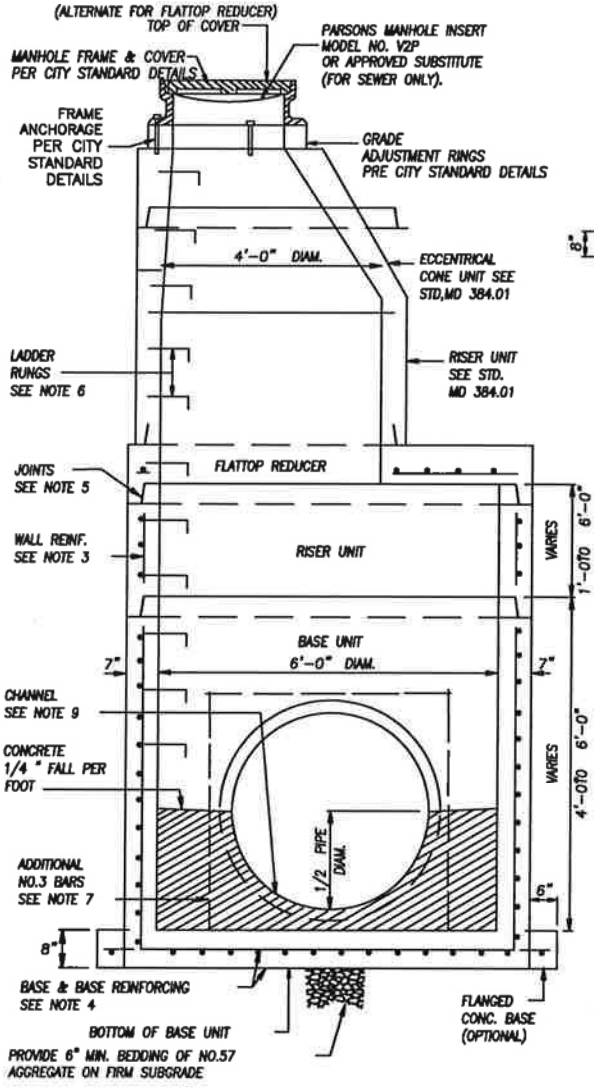


ECCENTRICAL CONE REDUCER

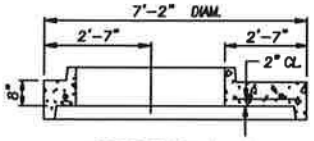


FLATTOP REDUCER

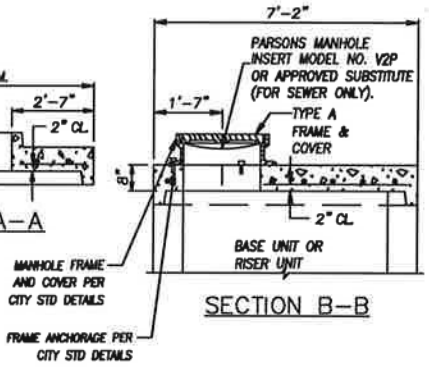
FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



SECTION VIEW



SECTION A–A



SECTION B–B

NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
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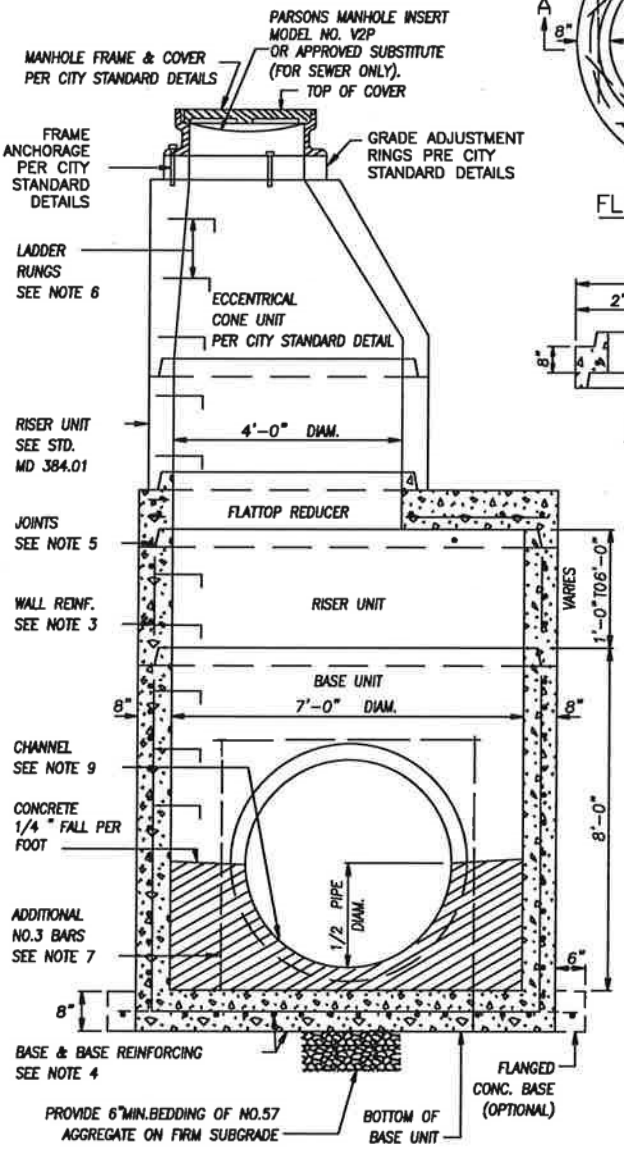
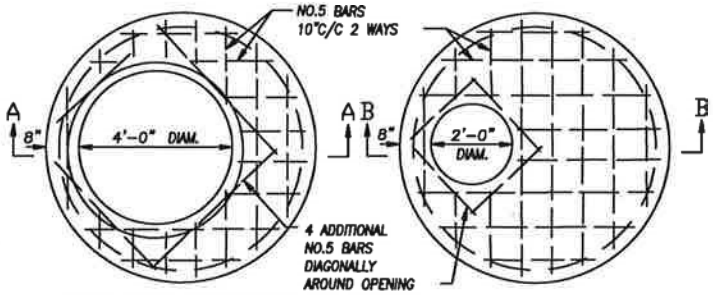
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	72" DIAMETER MANHOLE FOR 42" TO 48" PIPES	DATE 02/04/10 SCALE N.T.S. DWG. NO. STD40015 STD. NO. 400.15

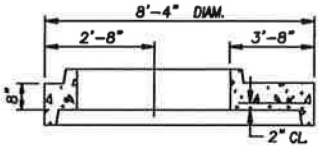


SECTION VIEW

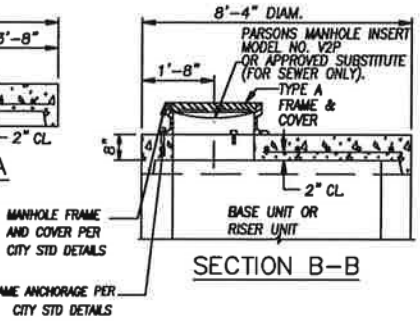


FLATTOP REDUCER

FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



SECTION A–A



SECTION B–B

NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
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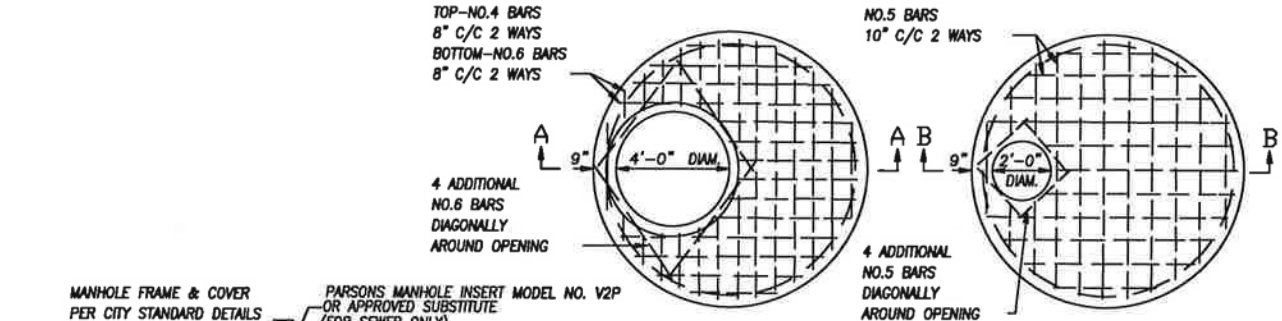
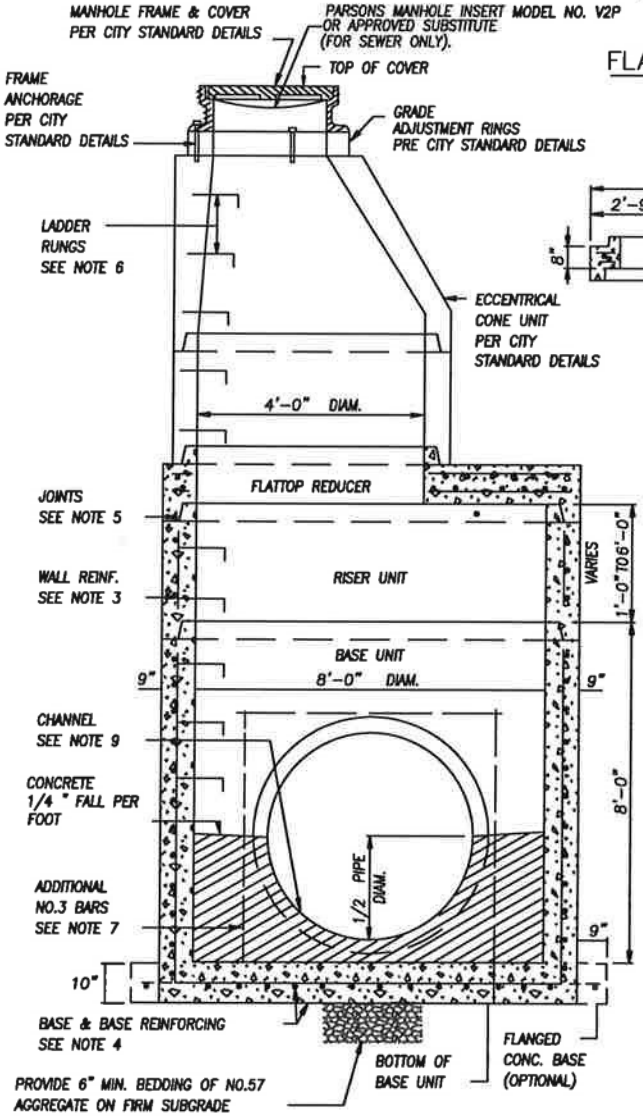
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	84" DIAMETER MANHOLE FOR 54" TO 60" PIPES	DATE 02/04/10 SCALE N.T.S. DWG. NO. STD40016 STD. NO. 400.16

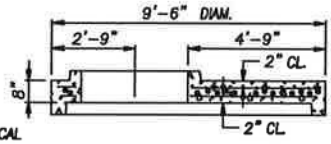


FLATTOP REDUCER

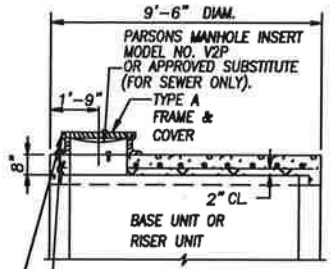
FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



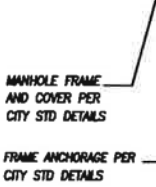
SECTION VIEW



SECTION A–A



SECTION B–B



NOTES

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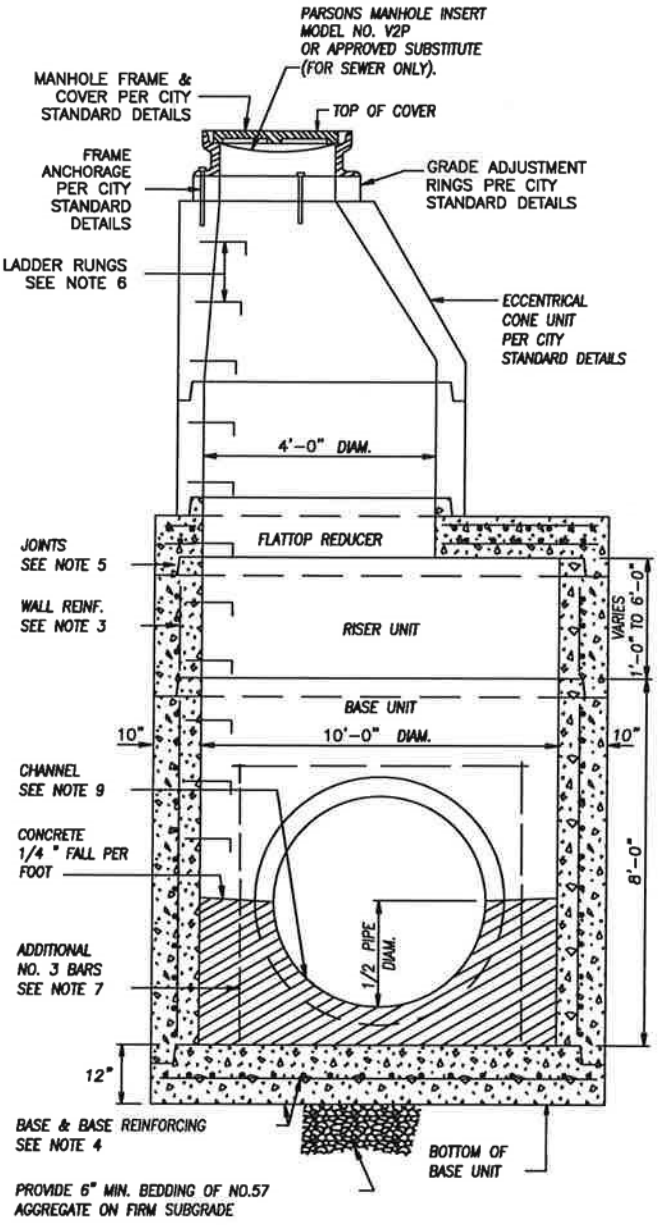
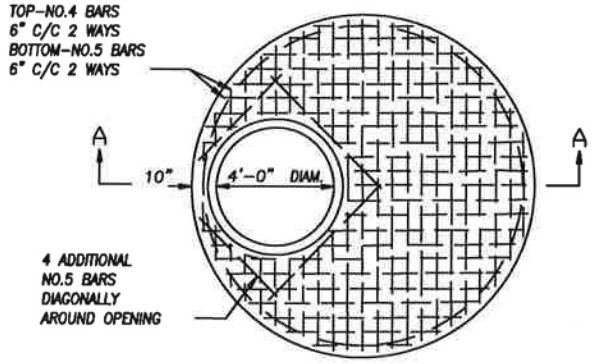
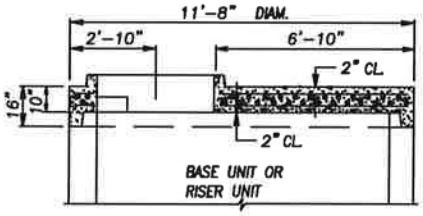
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Rellack CITY ENGINEER	90" DIAMETER MANHOLE FOR 72" PIPES	DATE 02/04/10 SCALE N.T.S. DWG. NO. STD40017 STD. NO. 400.17



SECTION VIEW



FLATTOP REDUCER

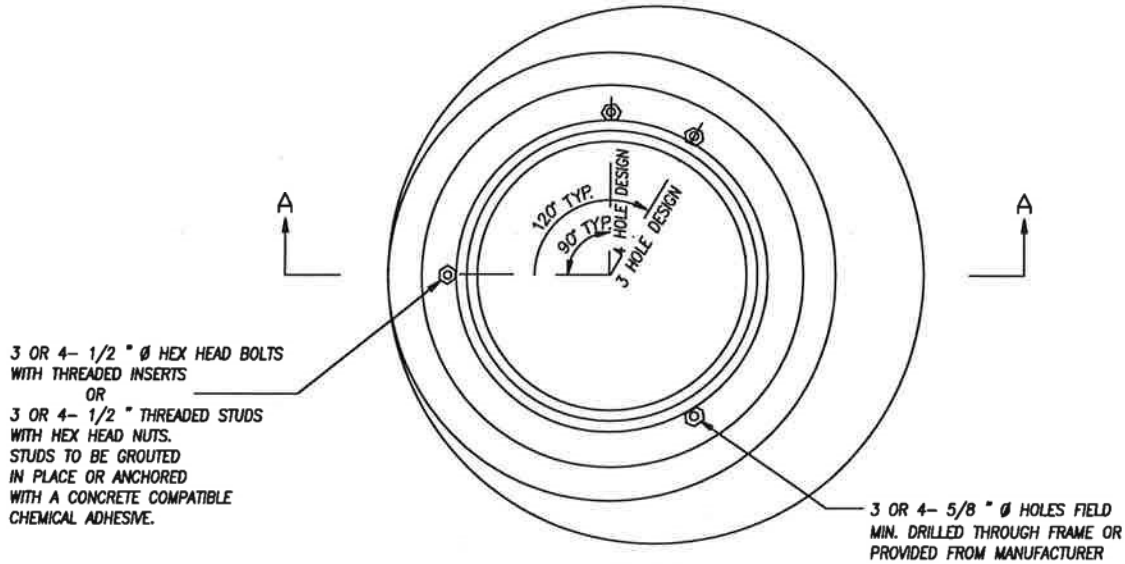


SECTION A-A

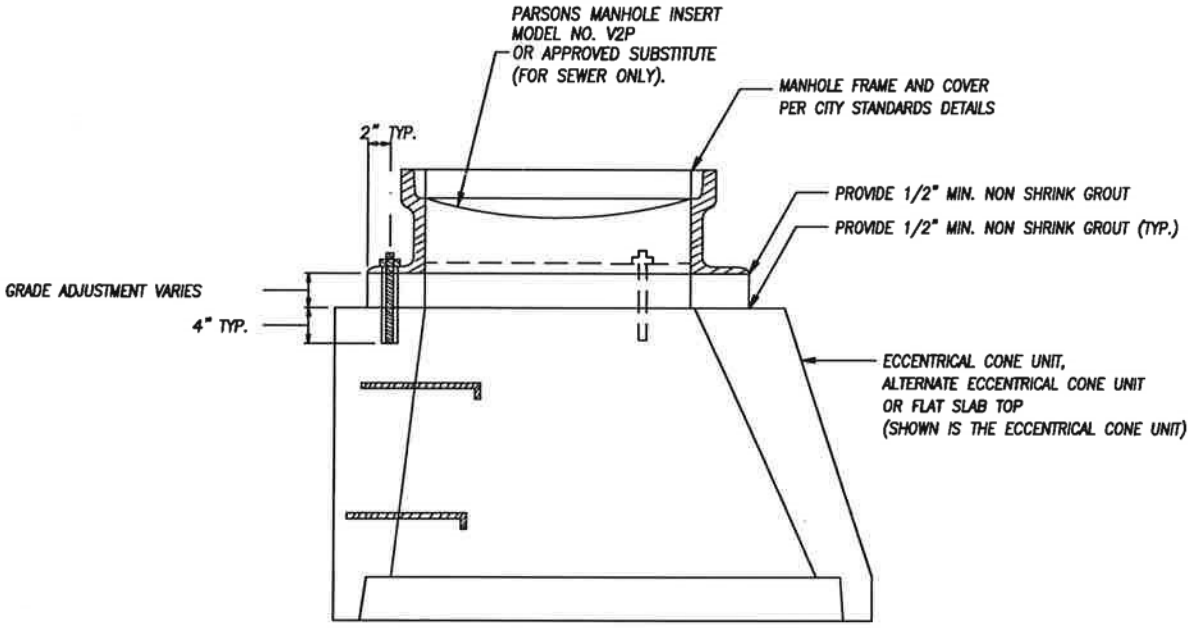
NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS. RISER UNITS AND ECCENTRICAL CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615.GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 361 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	120" DIAMETER MANHOLE FOR 78" TO 84" PIPES	DATE 02/04/10 SCALE N.T.S. DWG. NO. STD40018 STD. NO. 400.18

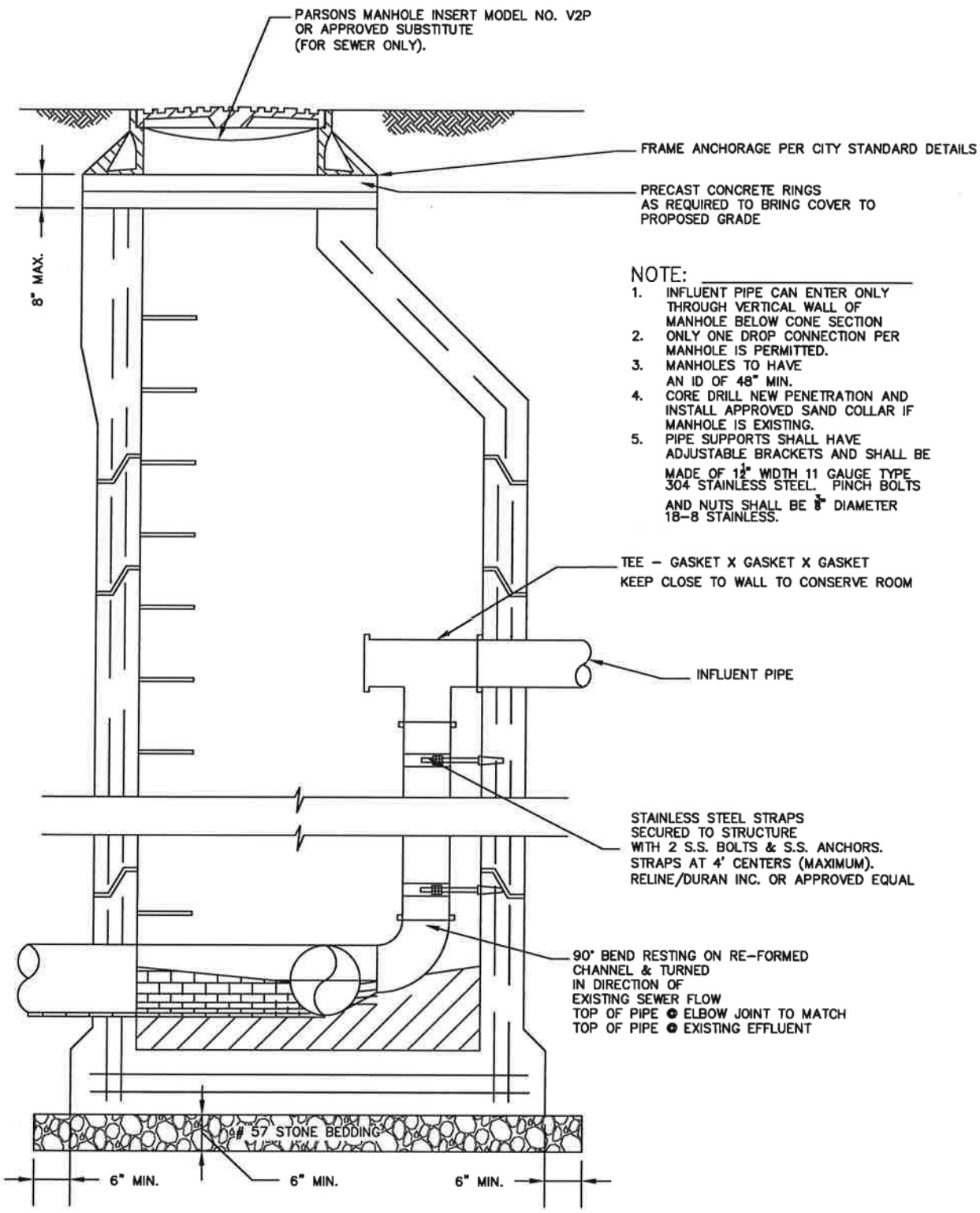


PLAN



SECTION A–A

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	FRAME ANCHORAGE FOR PRECAST MANHOLES	DATE 02/04/10 SCALE N.T.S. DWG. NO. STD40019 STD. NO. 400.19



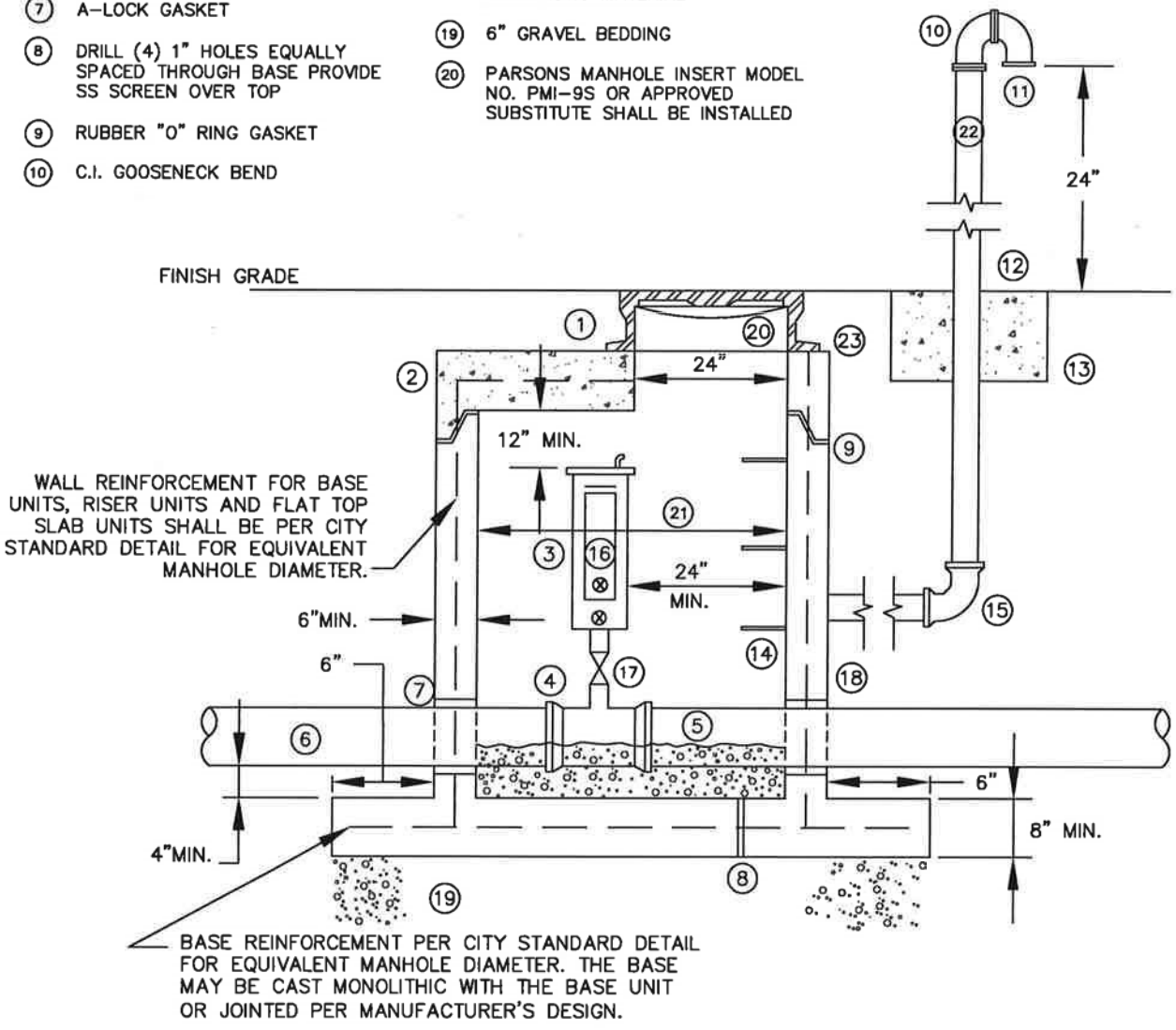
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	INTERNAL DROP CONNECTION	DATE 8/11/86 SCALE NONE DWG. NO. STD40023 STD. NO. 400.23

1. FRAME, COVER, AND FRAME ANCHORAGE PER CITY STANDARD DETAILS
2. REINFORCED CONCRETE SLAB. SEE CITY STANDARD DETAIL FOR EQUIVALENT MANHOLE DIAMETER.
3. SEWAGE COMBINATION AIR RELEASE 8 VACUUM VALVE
4. TAPPED TEE AS REQUIRED
5. WASHED GRAVEL FILL TO SPRING LINE
6. FORCE MAIN
7. A–LOCK GASKET
8. DRILL (4) 1" HOLES EQUALLY SPACED THROUGH BASE PROVIDE SS SCREEN OVER TOP
9. RUBBER "O" RING GASKET
10. C.I. GOOSENECK BEND
11. 1/4" MESH ALUM. SCREEN COVER
12. D.I. VENT SHOWN OUT OF POSITION FOR CLARITY
13. 4000 P.S.I. CONCRETE 24"x 24" x 12"
14. STEPS PER CITY STANDARD DETAILS
15. C.I. MECH. VERT. 90° BEND
16. BLOW–OFF VALVE
17. SHUTOFF VALVE
18. 2 COATS WATERPROOF BITUMASTIC MATERIAL
19. 6" GRAVEL BEDDING
20. PARSONS MANHOLE INSERT MODEL NO. PMI–9S OR APPROVED SUBSTITUTE SHALL BE INSTALLED
21. MIN. 6' DIA PRECAST STRUCTURE
22. MIN. 4" DIA. PIPE
23. FRAME ANCHORAGE PER CITY STANDARD DETAILS

NOTES:

MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.

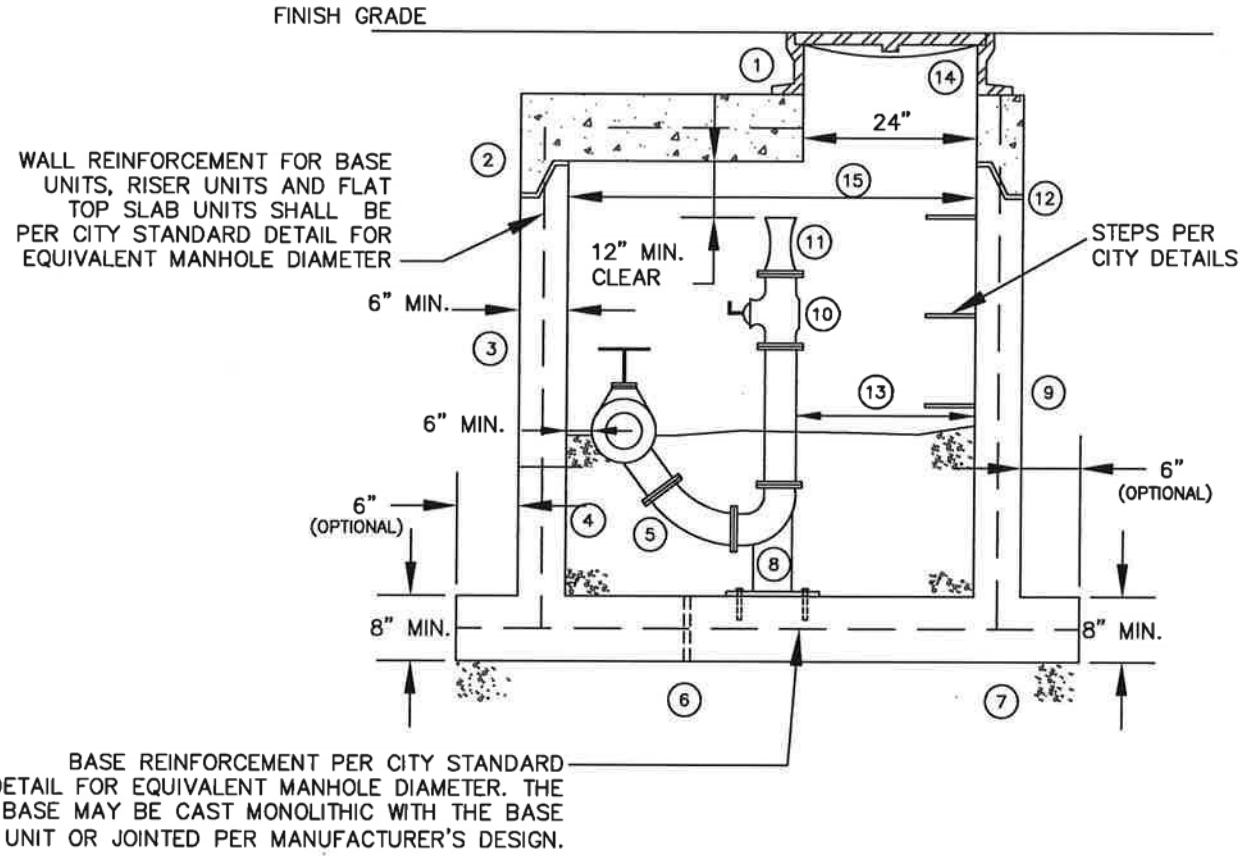
CONCRETE SHALL BE MIX NO. 6 (4500 PSI).



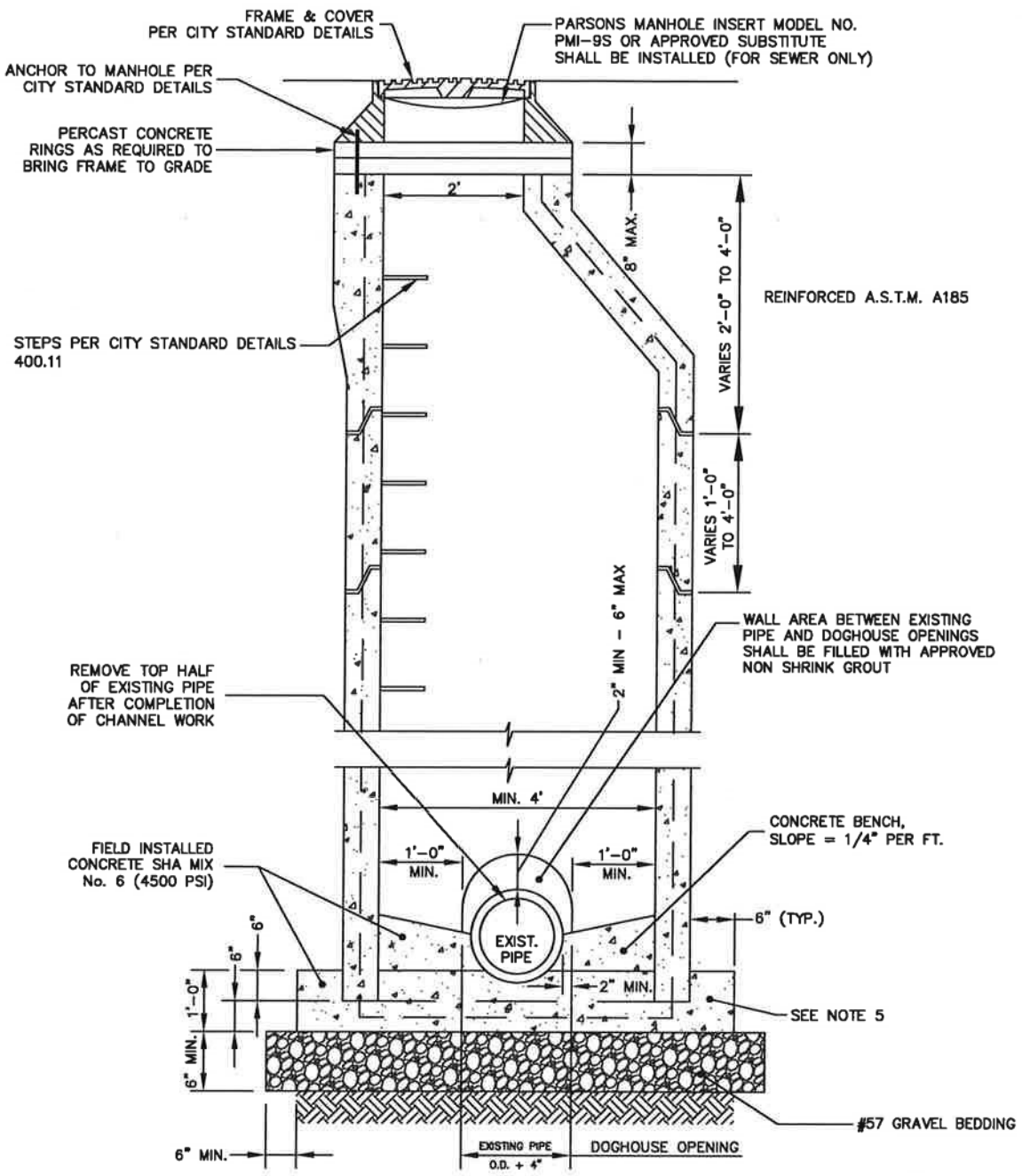
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	FORCE MAIN AIR VALVE ACCESS MANHOLE	DATE 04/05/89 SCALE SCALE DWG. NO. STD40026 STD. NO. 400.26

1. FRAME, COVER, AND FRAME ANCHORAGE PER CITY STANDARD DETAILS
2. REINFORCED CONCRETE SLAB. SEE CITY STANDARD DETAIL FOR EQUIVALENT MANHOLE DIAMETER.
3. 2 COATS WATERPROOF BITUMASTIC MATERIAL
4. WASHED GRAVEL FILL TO SPRING LINE OF FORCE MAIN
5. 45° BEND
6. DRILL (4) 1" HOLES EQUALLY SPACED THROUGH BASE. PROVIDE SS SCREEN OVER TOP
7. 6" GRAVEL BEDDING
8. 90° BEND W/DRILLED BASE ANCHORED TO MANHOLE BASE W/ 3/4"ø SS BOLTS
9. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
10. PLUG VALVE WITH LEVER OPERATOR
11. QUICK DISCONNECT FITTING AND CAP
12. RUBBER "O" RING GASKET
13. POSITION PLUG VALVE AND RISER ASSEMBLY TO PROVIDE MIN. 24" CLEARANCE FROM MANHOLE OPENING TO INVERT OF STRUCTURE.
14. PARSONS MANHOLE INSERT MODEL NO. PMI-9S OR APPROVED SUBSTITUTE SHALL BE INSTALLED
15. MIN. 6' DIA PRECAST STRUCTURE

NOTES:
MANHOLE STEPS PER CITY STANDARD DETAILS.
MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.



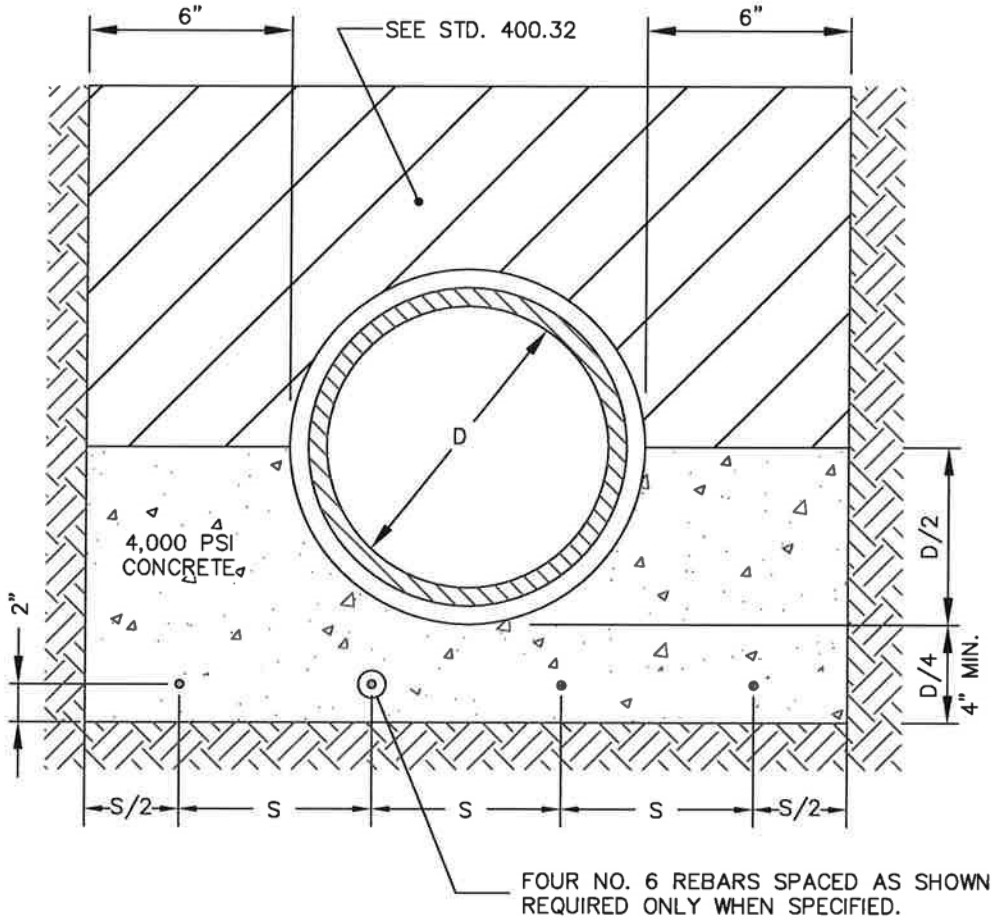
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	FORCE MAIN ACCESS MANHOLE	DATE 03/31/99 SCALE NONE DWG. NO. STD40027 STD. NO. 400.27



NOTE:
MANHOLE SIZE MAY VARY ACCORDING TO THE SIZE (O.D.) OF PIPE COMING INTO OR LEAVING THE MANHOLE. SEE APPROPRIATE STANDARD DETAIL.

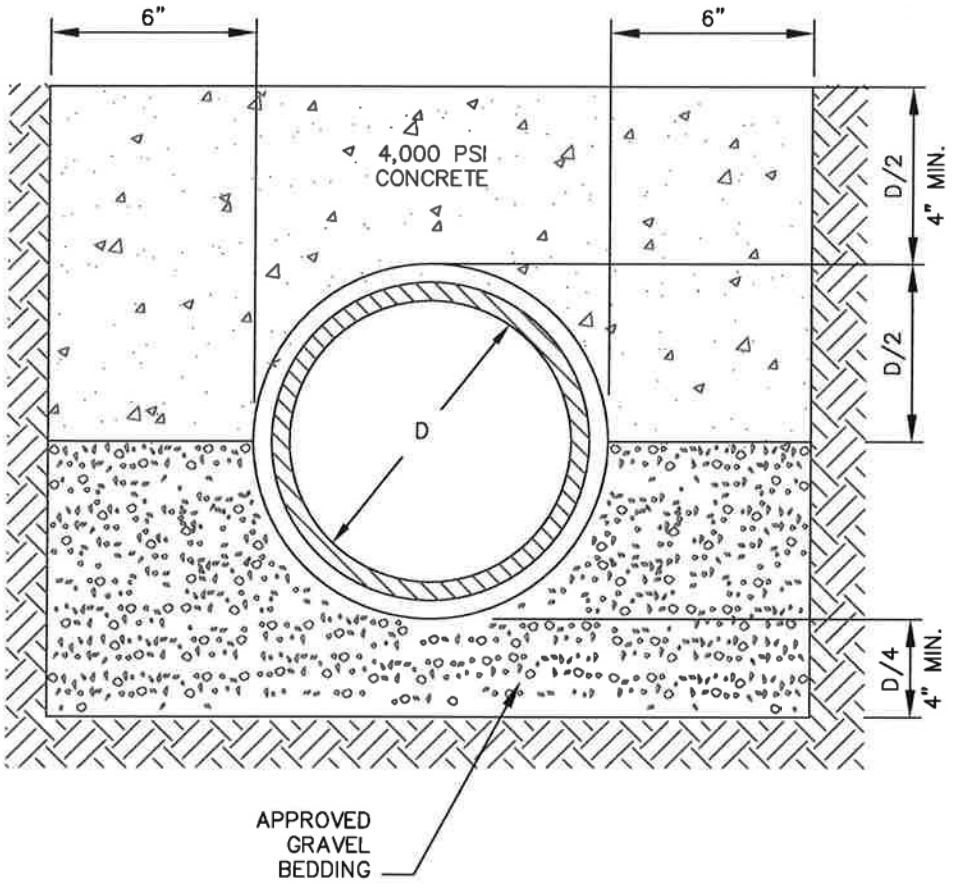
NOTES:
1. IF EXISTING PIPE IS TERRA COTTA: PRIOR TO INSTALLING MANHOLE, REMOVE PIPE FROM 10' EACH WAY OF ℄ MANHOLE (20' TOTAL LENGTH) AND REPLACE WITH SDR-35 OF SAME ID AND JOIN WITH FERNCO COUPLINGS. SDR-35 PIPE SHALL BE INSTALLED WITH 12" THICK # 57 STONE BEDDING EXTENDING TO SPRINGLINE OF PIPE.
2. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
3. PIPE JOINTS ARE NOT PERMITTED WITHIN THE INTERIOR OF ANY DOGHOUSE MANHOLE.
4. PIPE JOINTS ARE NOT PERMITTED WITHIN 2' OF ANY EXTERIOR WALL OF ANY DOGHOUSE MANHOLE
5. BASE REINFORCEMENT SHALL BE #4 BARS 6" OC/EW, 2" CLEAR FROM ALL EDGES.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD DOGHOUSE MANHOLE SEWER & STORM WATER	DATE 6/11/86 SCALE NONE DWG. NO. STD40028 STD. NO. 400.28

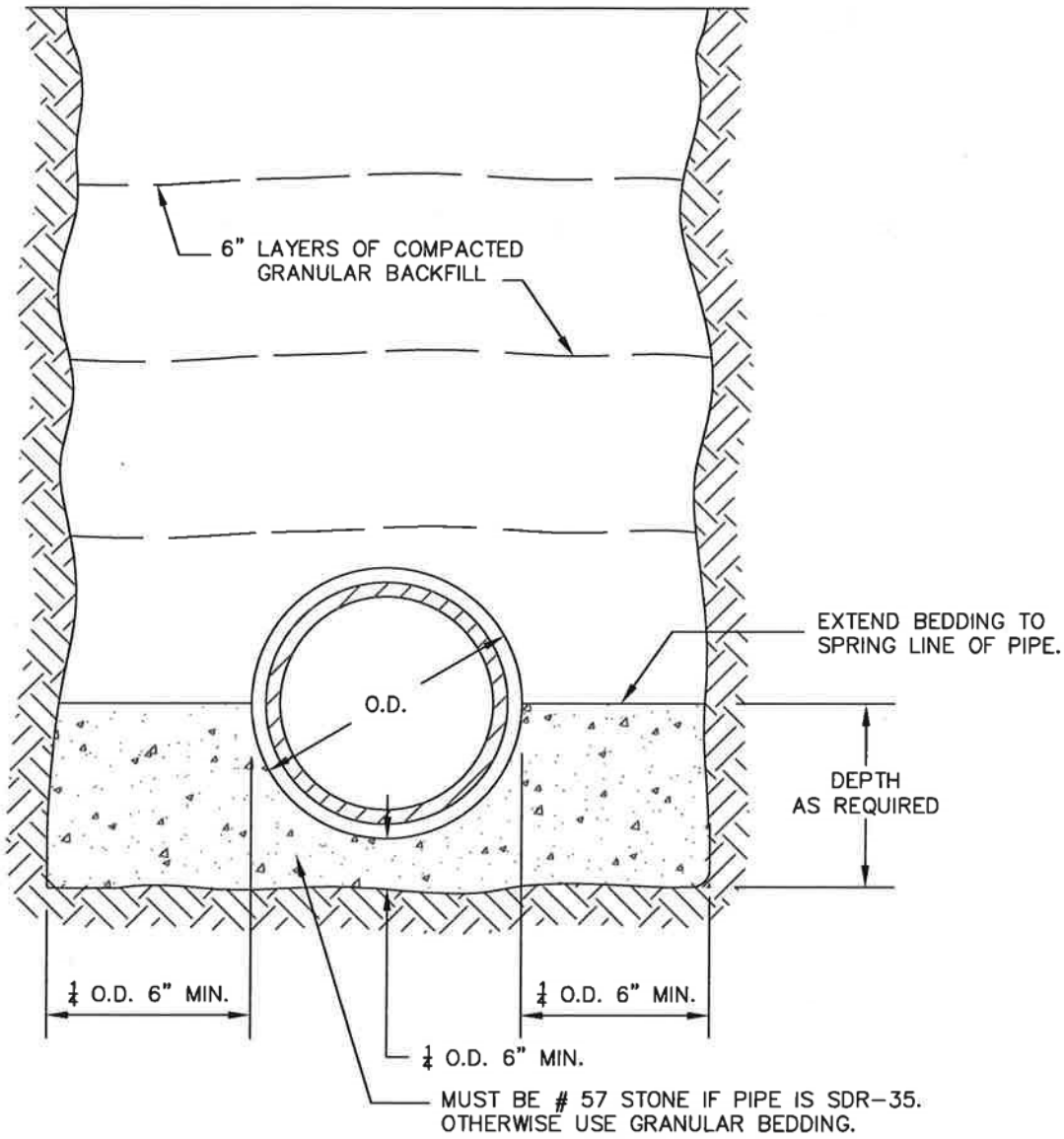


$$S = \frac{D+12"}{4}$$

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	CONCRETE CRADLE SANITARY SEWER OR STORMWATER DRAINS	DATE 08/29/86 SCALE NONE DWG. NO. STD40030 STD. NO. 400.30



CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	CONCRETE ARCH SANITARY SEWERS OR STORMWATER DRAINS	DATE 08/29/86 SCALE NONE DWG. NO. STD40031 STD. NO. 400.31



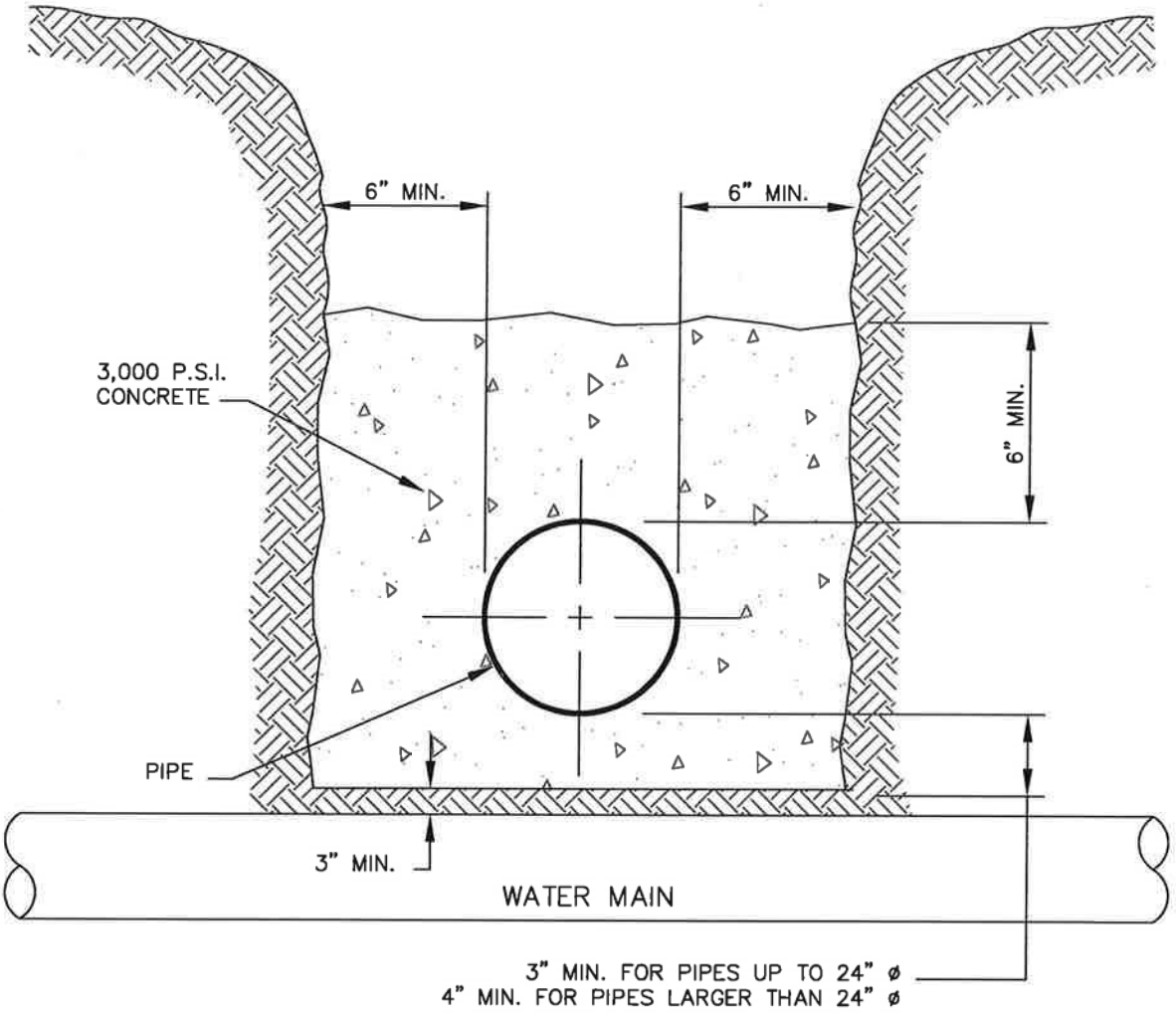
NOTES:

1. TRENCH WIDTH WILL GOVERN PAYMENT FOR REPAVING, BACKFILL, ETC.. UNLESS OTHERWISE SPECIFIED.
2. THE CITY RESERVES THE RIGHT TO INCREASE, DECREASE OR ENTIRELY EXCLUDE THE GRANULAR BEDDING AS DIRECTED BY THE ENGINEER. WHEN GRANULAR BEDDING IS NOT USED, BACKFILL SHALL BE TAMPED AROUND PIPE HAUNCHES TO PROVIDE SOLID AND STABLE BEDDING.
3. 97% OF MAX. SOIL DENSITY REQUIRED ON TOP 1' OF STREET SUBGRADE
   95% OF MAX. SOIL DENSITY REQUIRED BELOW TOP 1' OF STREET SUBGRADE
4. THIS DETAIL APPLIES TO ALL PUBLIC SEWER, WATER, AND STORM WATER MAINS AND LATERALS.

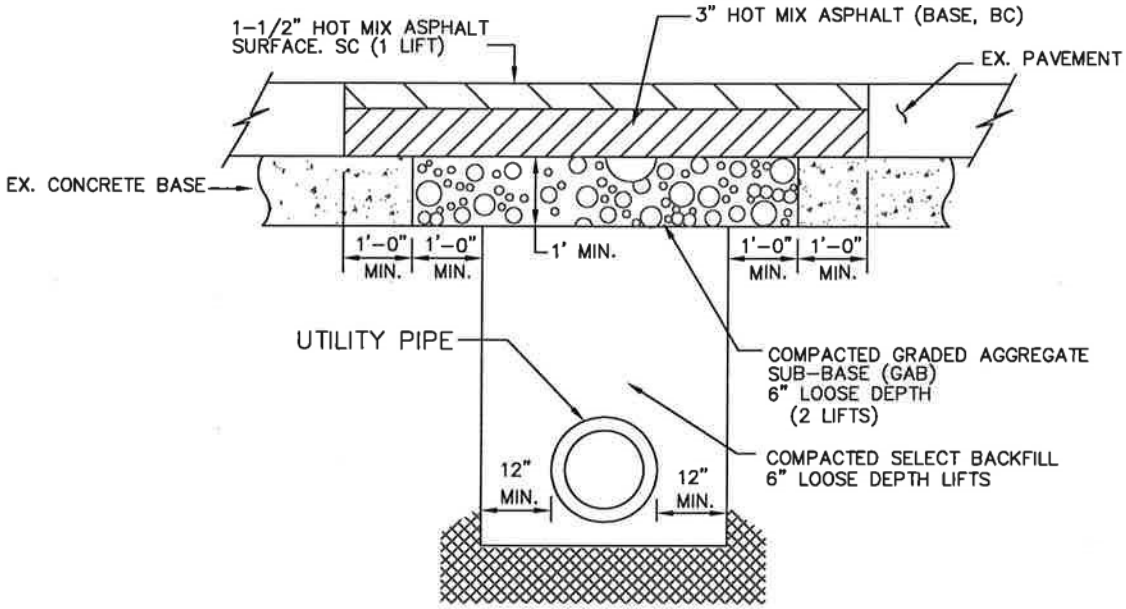
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	TYPICAL DETAIL PIPE TRENCH & BEDDING	DATE 8/29/86 SCALE NONE DWG. NO. STD40032 STD. NO. 400.32

NOTES:

1. ENCASEMENT REQUIRED IF SEWER IS ABOVE WATER MAIN.
2. IF GREATER THAN 12" OF CLEARANCE BELOW WATER MAIN, NO ENCASEMENT NECESSARY. SEE DG5 I 1A.
3. EXTEND ENCASEMENT 10' EITHER SIDE OF WATER MAIN CROSSING.

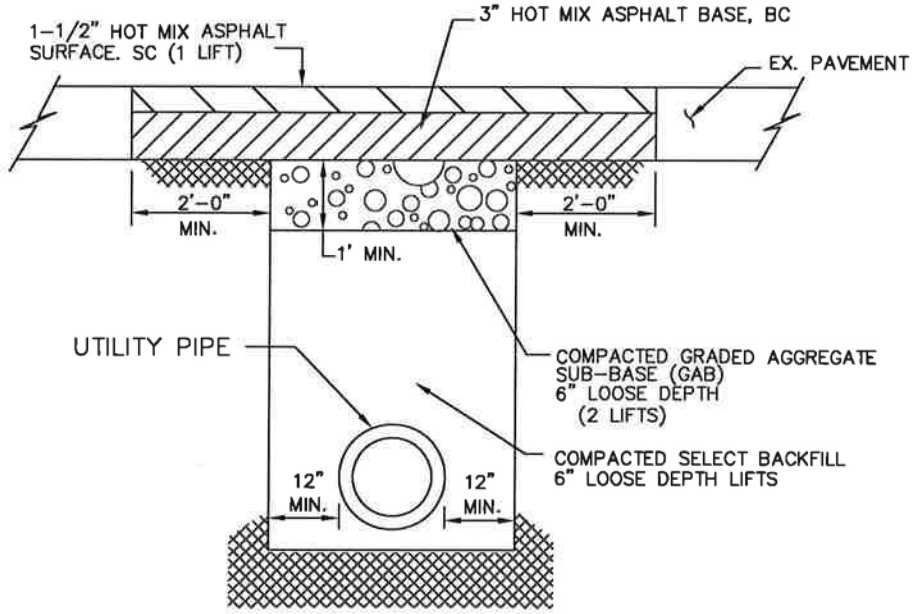


CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	SANITARY SEWER ENCASEMENT DETAIL	DATE 02/06/08 SCALE NONE DWG. NO. STD40033 STD. NO. 400.33



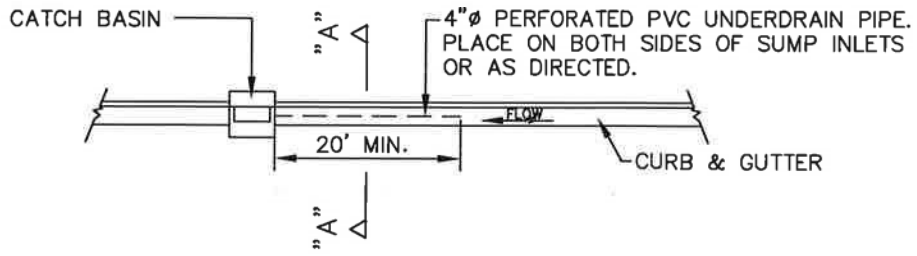
TYPICAL TRENCH REPAIR
ROADS WITH CONCRETE BASE

TYPICAL NOTE FOR STD.400.35:
A TEMPORARY LAYER OF 1-1/2" HOT MIX ASPHALT (BASE, BC) OR COLD PATCH SHALL BE PLACED IN ALL DISTURBED AREA BY THE END OF THAT CURRENT DAYS' WORK, UNTIL FINAL DETAIL IS INSTALLED.



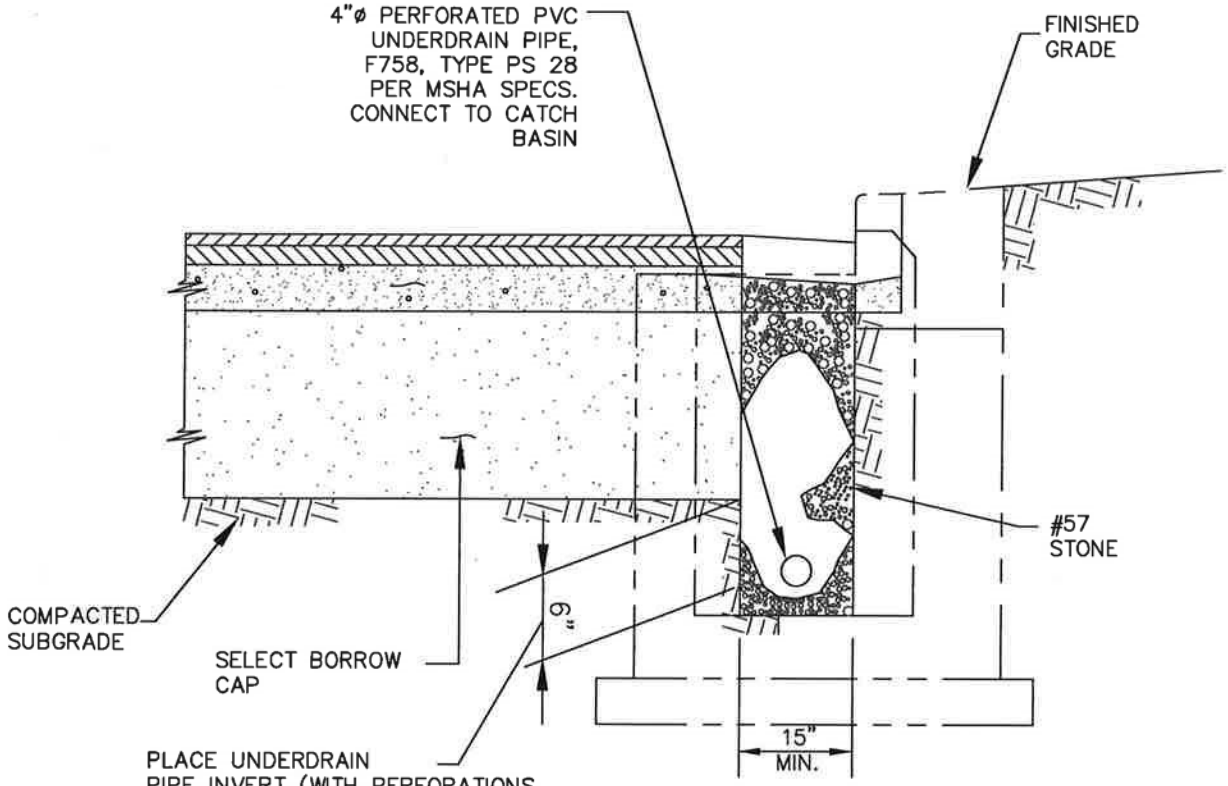
TYPICAL TRENCH REPAIR (ROADS WITH BITUMINOUS CONCRETE SURFACE AND BITUMINOUS CONCRETE BASE)

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	UTILITY TRENCH REPAIR DETAILS	DATE 10/29/98 SCALE NONE DWG. NO. STD40035 STD. NO. 400.35



PLAN

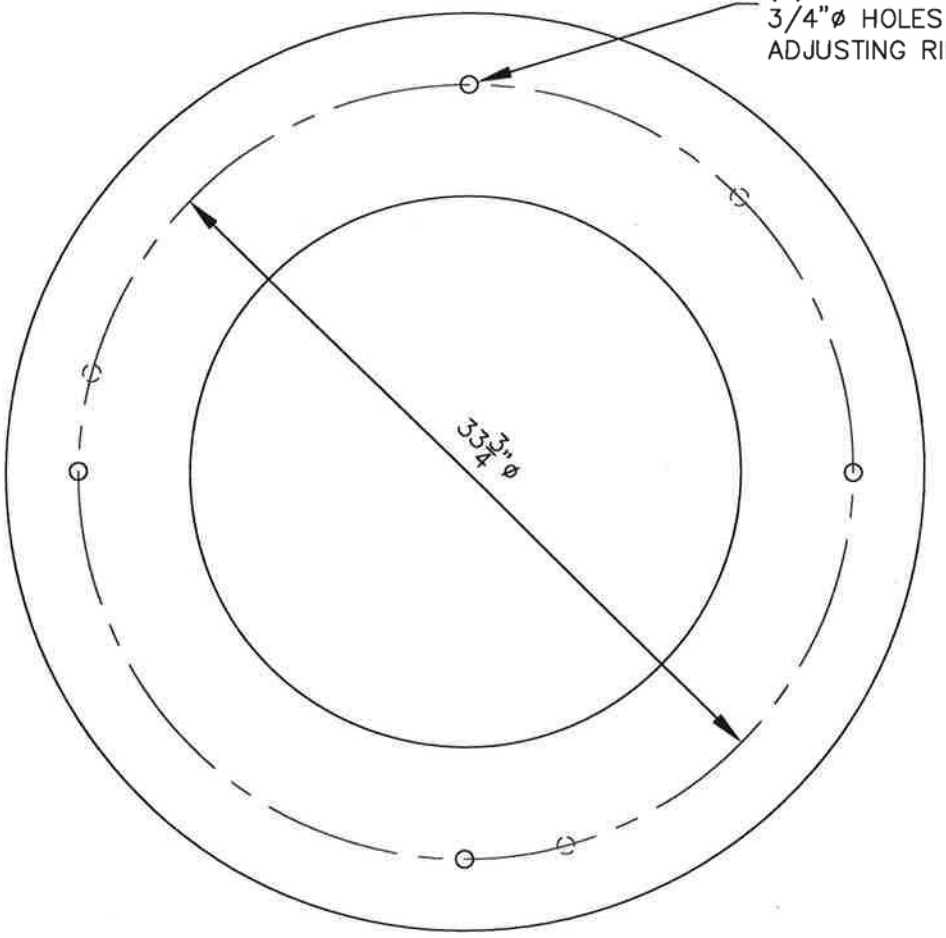
SCALE: 1"=20'

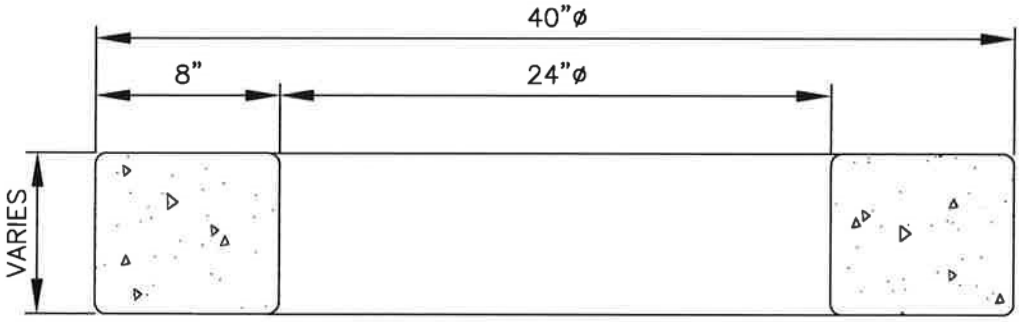


SECTION A-A

SCALE: 1"=2'

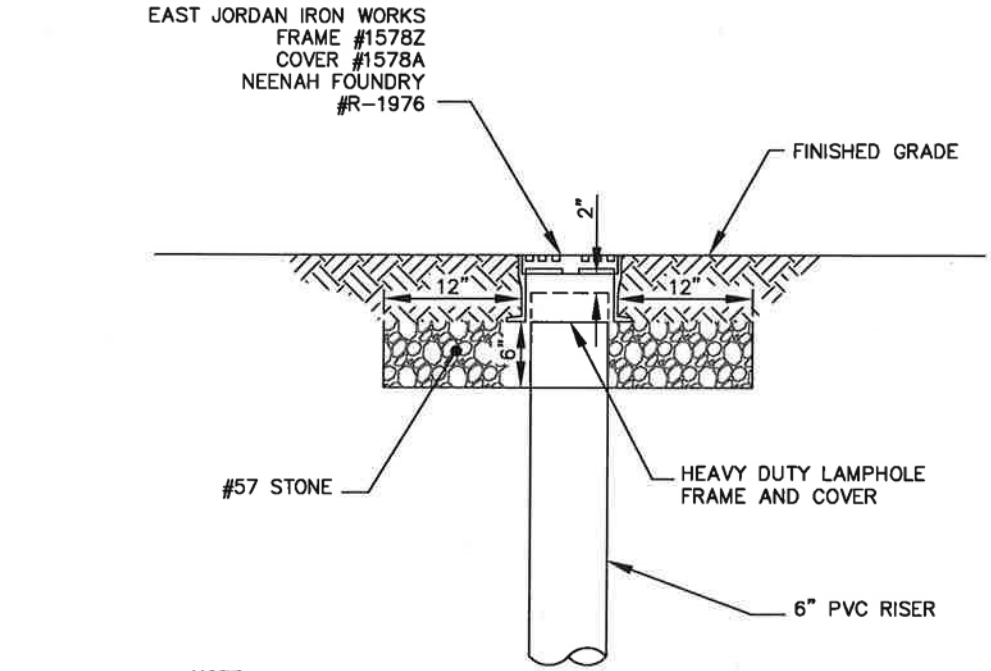
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	SUBGRADE DETAIL	DATE 06/02/01 SCALE NONE DWG. NO. STD40036 STD. NO. 400.36





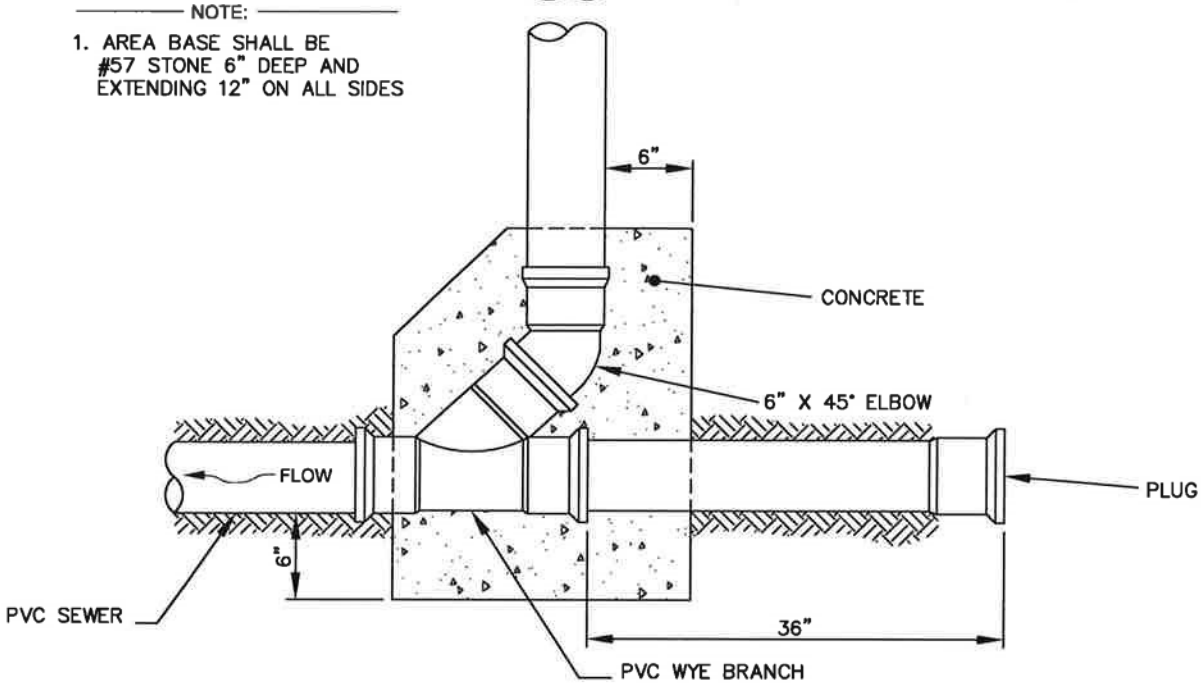
NOTES:
1. DESIGNED FOR H-20 WHEEL LOADING
2. CONFORMS TO ASTM C-478 SPECIFICATIONS
3. REINFORCED TO 0.12 IN^2/LF

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD PRECAST CONCRETE ADJUSTING RINGS	DATE 01/01/17 SCALE NONE DWG. NO. STD40038 STD. NO. 400.38



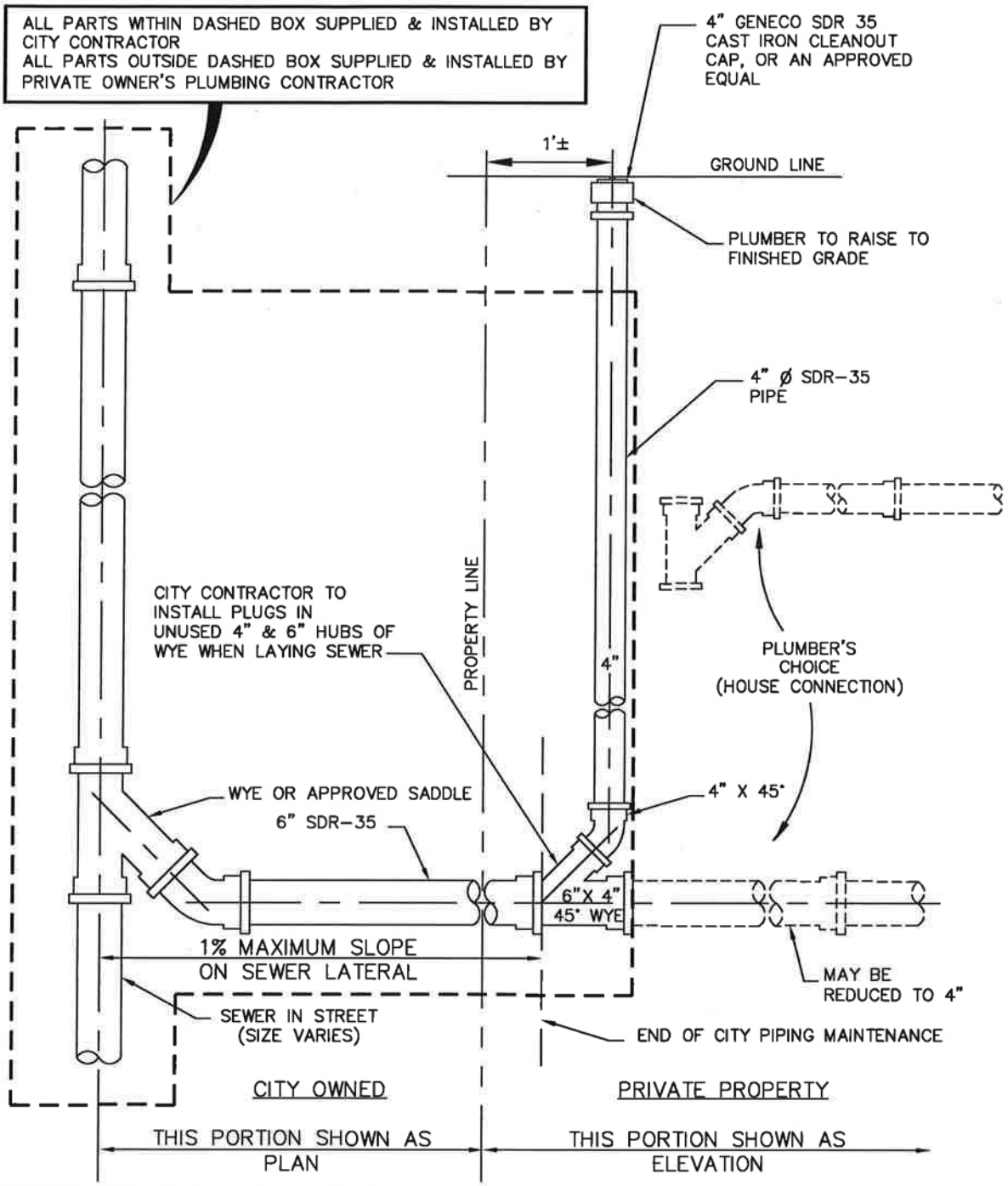
NOTE:

1. AREA BASE SHALL BE #57 STONE 6" DEEP AND EXTENDING 12" ON ALL SIDES



CLEANOUTS INSTALLED IN DRIVEWAYS AND UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE CLEANOUT CAP. THE COLLAR SHALL BE 6" THICK AND BE SUPPORTED BY A 6" BASE OF CR-6 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE CLEANOUT CAPS ARE ADJUSTED TO FINISHED GRADE. THE CONCRETE COLLAR SHALL BE REMOVED ENTIRELY PRIOR TO PAVING.

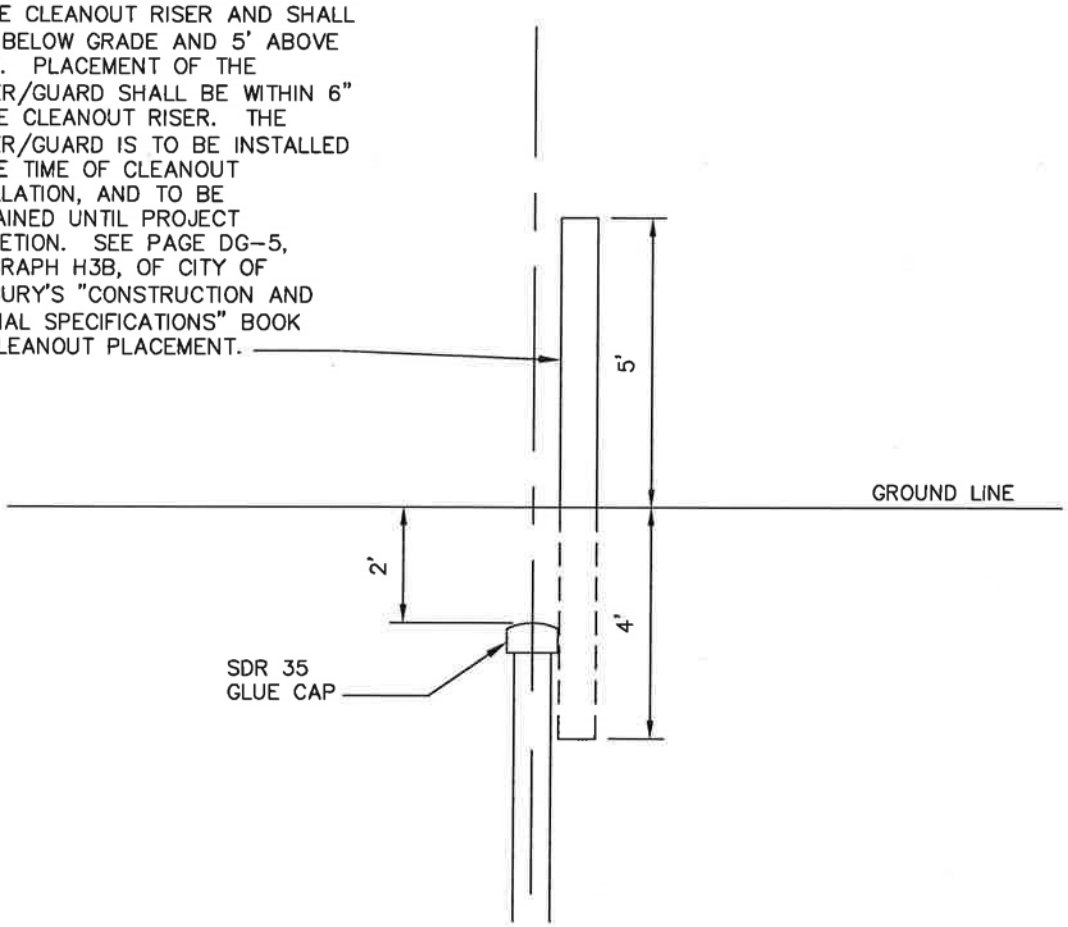
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD CLEANOUT FOR SEWER LINES IN CITY STREETS	DATE 03/30/94 SCALE NONE DWG. NO. STD40040 STD. NO. 400.40



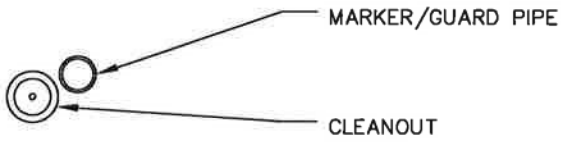
CLEANOUTS INSTALLED IN DRIVEWAYS AND UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE CLEANOUT CAP. THE COLLAR SHALL BE 6" THICK AND BE SUPPORTED BY A 6" BASE OF CR-6 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE CLEANOUT CAPS ARE ADJUSTED TO FINISHED GRADE.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD HOUSE SERVICE SEWER CONNECTION USING PLASTIC PIPE W/ EXISTING SEWER MAIN	DATE 6/28/06 SCALE NONE DWG. NO. STD40042 STD. NO. 400.42

SANITARY SEWER CLEANOUTS SHALL BE GUARDED BY A MARKER/GUARD PIPE. THE MARKER/GUARD PIPE SHALL BE THE SAME SIZE AND TYPE AS THE CLEANOUT RISER AND SHALL BE 4' BELOW GRADE AND 5' ABOVE GRADE. PLACEMENT OF THE MARKER/GUARD SHALL BE WITHIN 6" OF THE CLEANOUT RISER. THE MARKER/GUARD IS TO BE INSTALLED AT THE TIME OF CLEANOUT INSTALLATION, AND TO BE MAINTAINED UNTIL PROJECT COMPLETION. SEE PAGE DG-5, PARAGRAPH H3B, OF CITY OF SALISBURY'S "CONSTRUCTION AND MATERIAL SPECIFICATIONS" BOOK FOR CLEANOUT PLACEMENT.

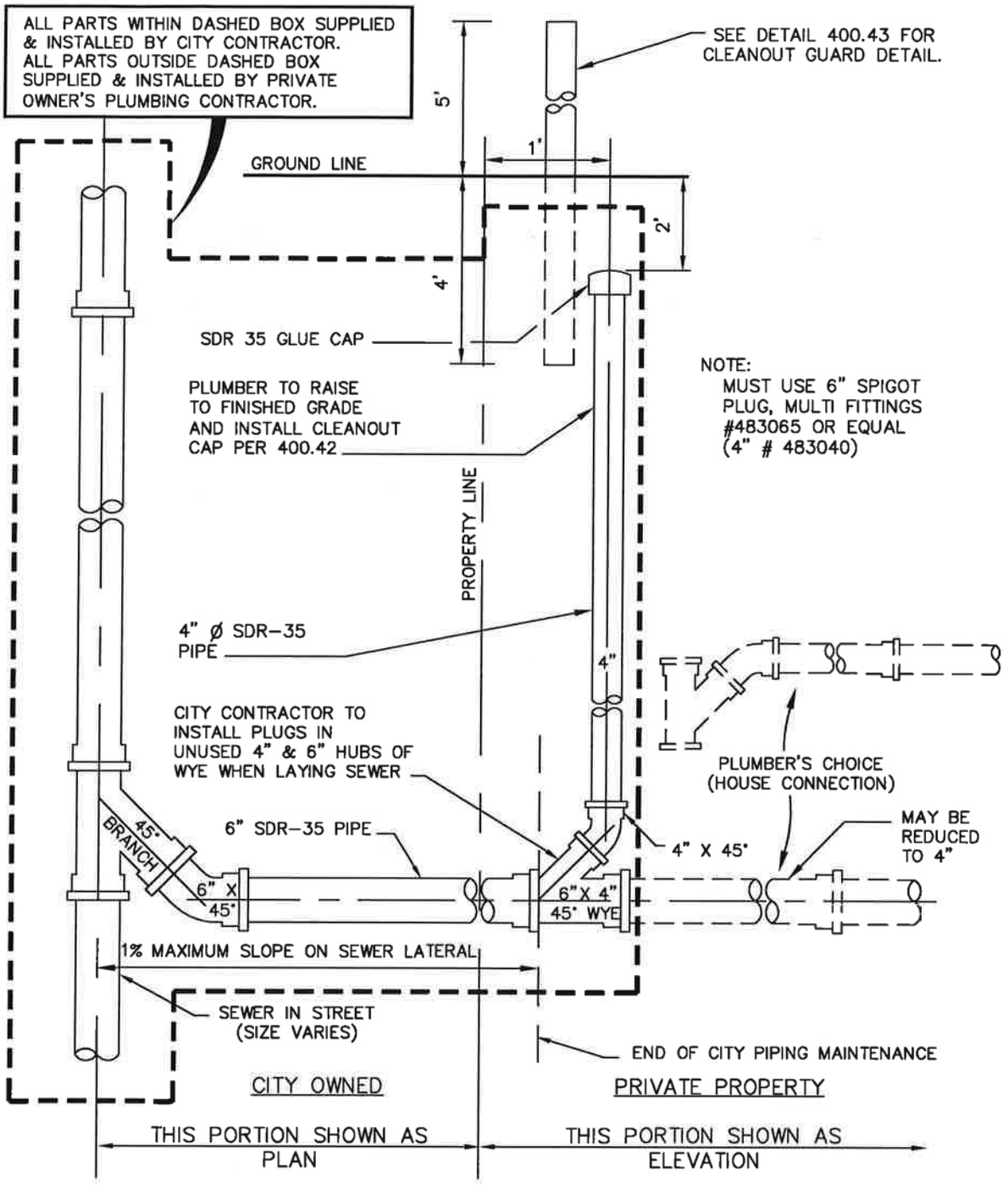


FRONT VIEW



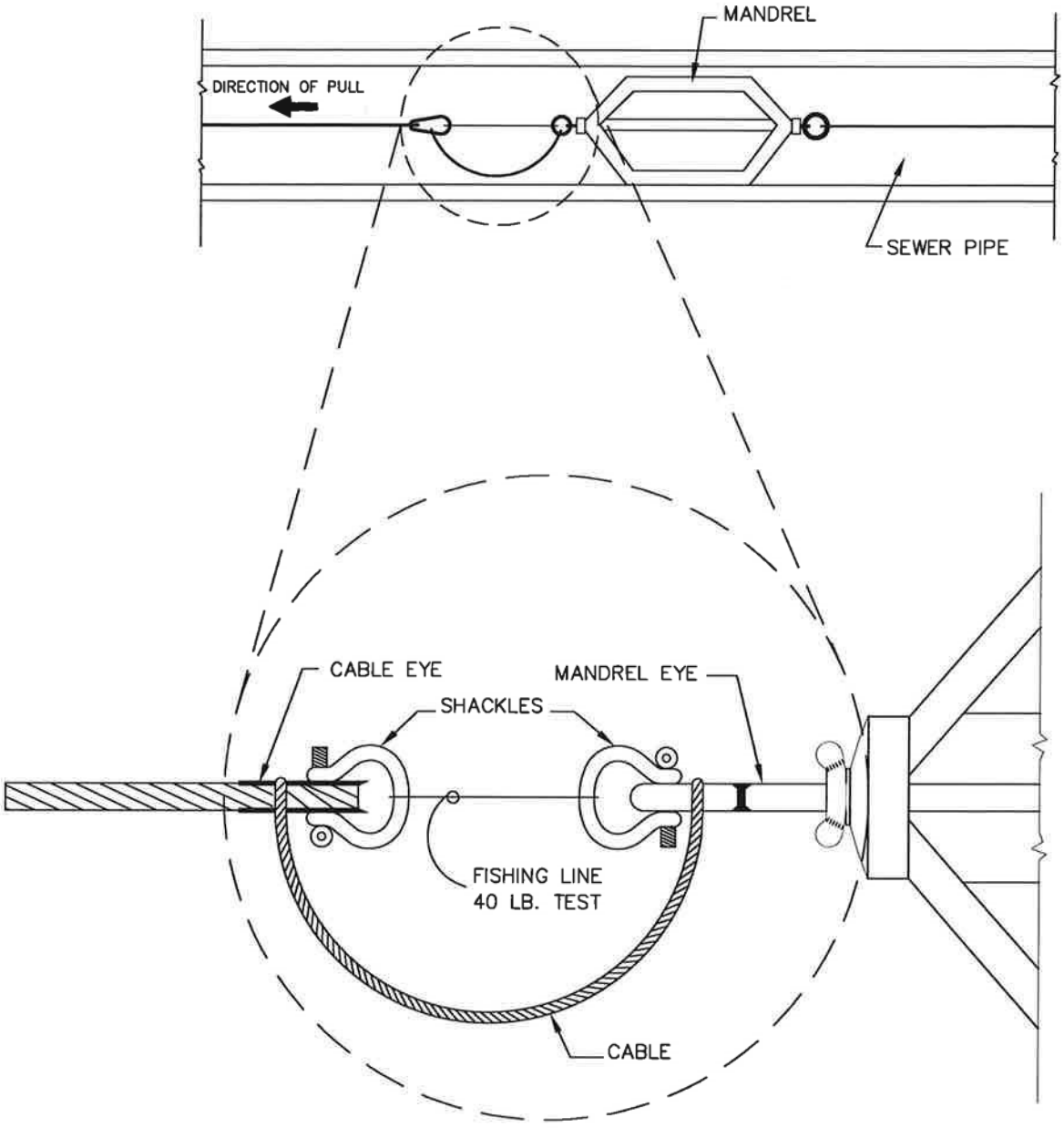
PLAN VIEW

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD HOUSE SERVICE SEWER CONNECTION CLEANOUT GUARD DETAIL	DATE 01/23/06 SCALE NONE DWG. NO. STD40043 STD. NO. 400.43



CLEANOUTS INSTALLED IN DRIVEWAYS AND UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE CLEANOUT CAP. THE COLLAR SHALL BE 6" THICK AND BE SUPPORTED BY A 6" BASE OF CR-6 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE CLEANOUT CAPS ARE ADJUSTED TO FINISHED GRADE.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD HOUSE SERVICE SEWER CONNECTION FOR NEW CONSTRUCTION USING PLASTIC PIPE	DATE 1/31/08 SCALE NONE DWG. NO. STD40045 STD. NO. 400.45

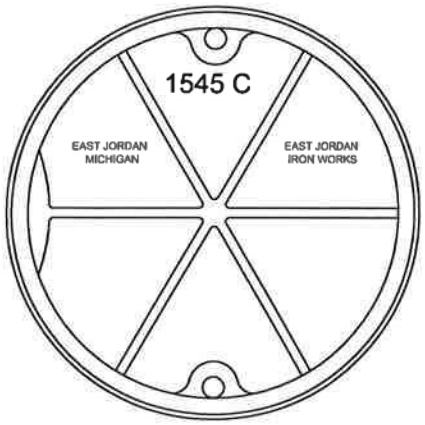


NOTE:

1. MANDREL SHALL BE APPROVED BY THE FIELD ENGINEER PRIOR TO USE.
2. MANDREL SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE.

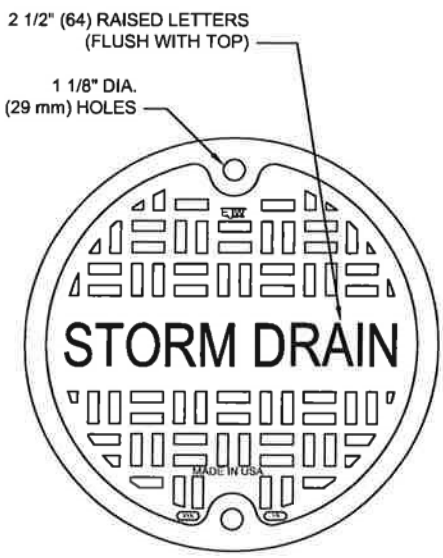
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Poeltl CITY ENGINEER	DEFLECTION TEST MANDREL METHOD	DATE 03/01/12 SCALE NONE DWG. NO. STD40050 STD. NO. 400.50

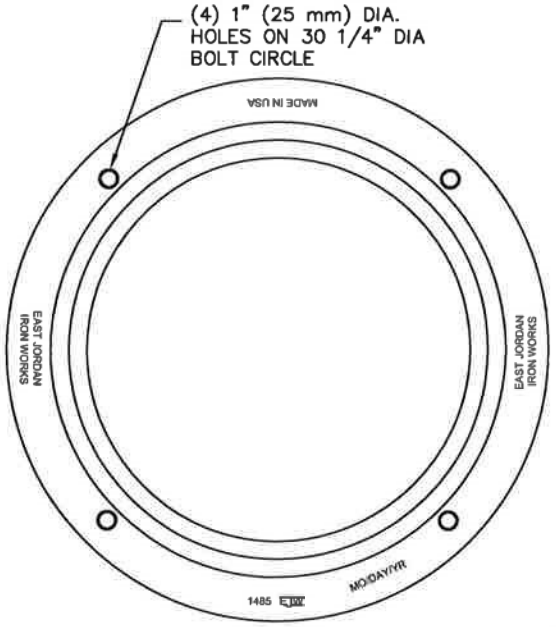
NOTE: NOT FOR USE IN PAVED AREAS.

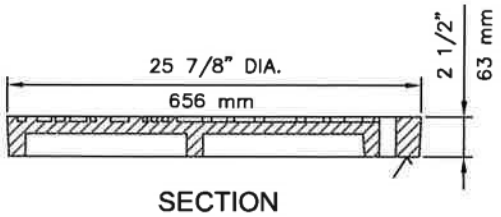


BOTTOM VIEW

EAST JORDAN
FRAME #148510
COVER #154524
OR APPROVED SUBSTITUTE

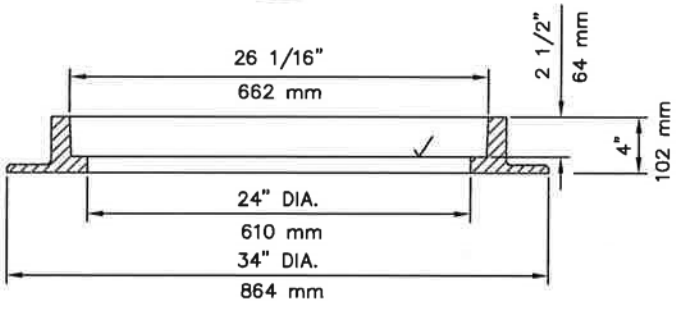






SECTION

✓ MACHINED SURFACE



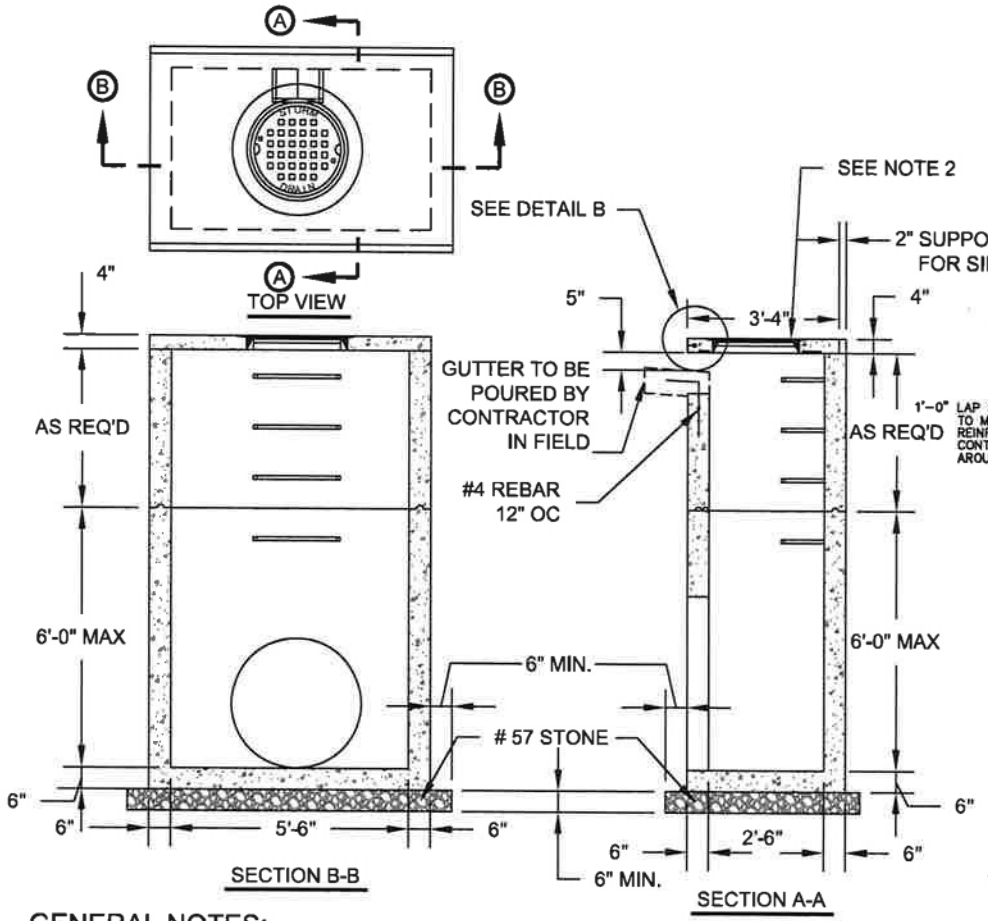
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	MINIMUM CLEARANCE MANHOLE FRAME & COVER STORMWATER	DATE 7/31/98 SCALE NONE DWG. NO. STD50010 STD. NO. 500.10

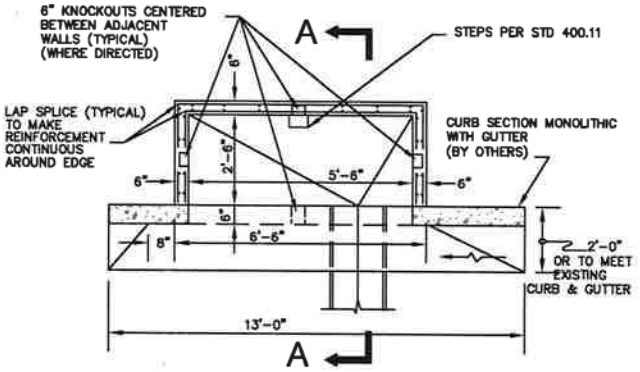
CITY OF SALISBURY
SALISBURY, MD

APPROVED
CITY ENGINEER
1/12/18
DATE

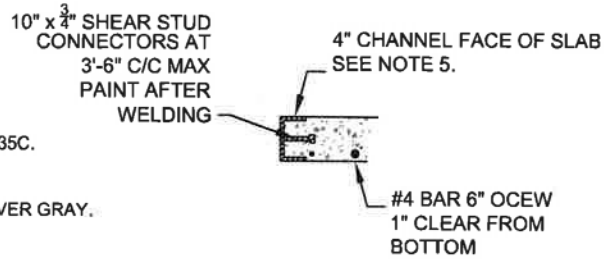
TYPE "A-1" INLET

DATE	1/27/10
SCALE	NONE
DWG. NO.	STD50045
STD. NO.	500.45





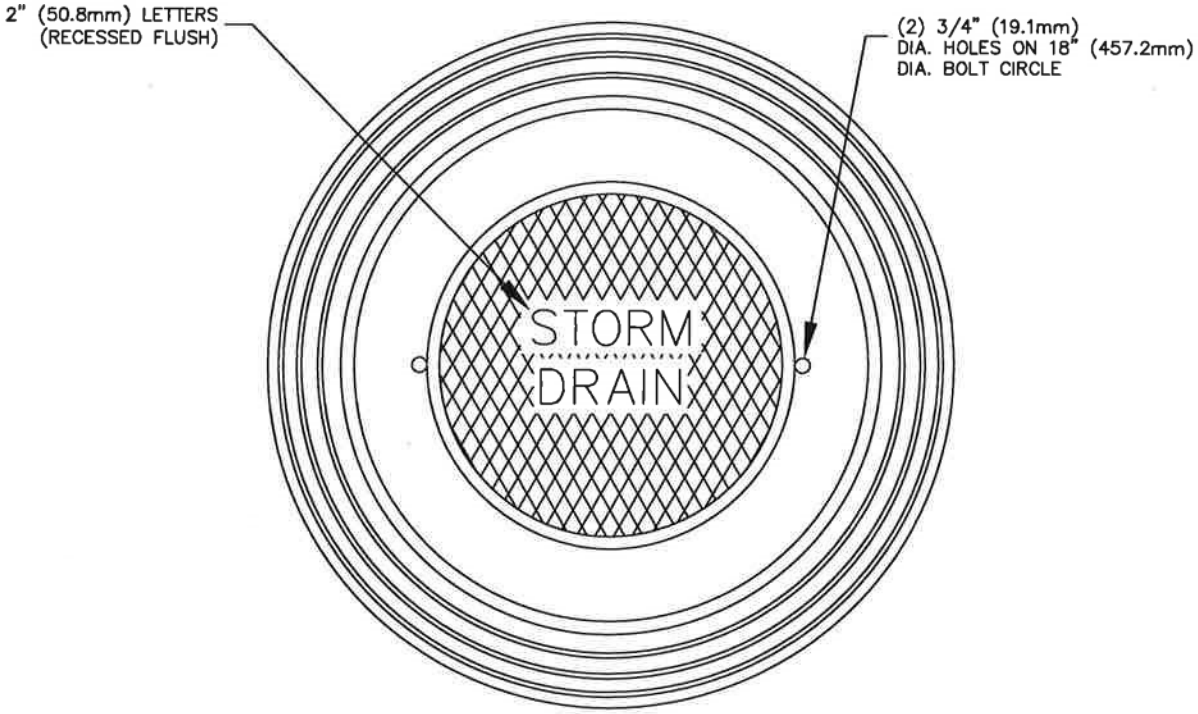
TOP VIEW

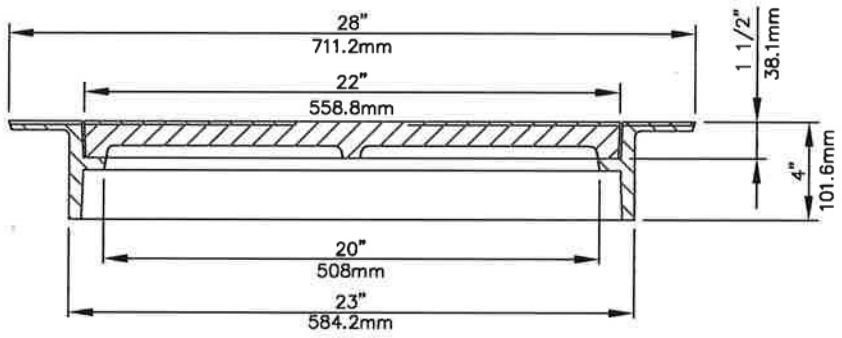


DETAIL B

GENERAL NOTES:

1. CONCRETE SHALL BE MDSHA MIX No. 6 - 4, 500 P.S.I.
2. SIDEWALK FRAME AND COVER TO BE NEENAH R-5915-E. OR EAST JORDAN FRAME 2935Z, COVER 2935C.
3. STEPS INCLUDED WHEN BOX IS OVER 3'-6".
4. REINFORCING TO BE 2 LAYERS OF W4xW4 WELDED WIRE FABRIC.
5. TO BE PAINTED IN FIELD WITH RUSTOLEUM 3400 SYSTEM DTM 340 VOC ALKYD ENAMEL 3482402 SILVER GRAY.
6. MINIMUM COVER SHALL BE 1 1/2" FOR ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
7. (RISER SECTION) 5 FOOT MAXIMUM HEIGHT, 1 FOOT MINIMUM.
8. (BASE) 6' MAXIMUM HEIGHT, MINIMUM HEIGHT = PIPE O.D. + 6 IN. MEASURED FROM PIPE INVERT.
9. PIPE OPENINGS TO BE PROVIDED AS REQUIRED FOR SIZE, LOCATION AND INVERT ELEVATIONS. REFER TO PLANS.
10. PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON PLANS.
11. GROUT AROUND ALL PIPES USING NON-SHRINK GROUT JOINT FILLER.
12. WHERE USED, UNDERDRAIN SHALL BE GROUTED IN PLACE IN THE PROVIDED KNOCKOUT HOLES.
13. LIFT HOLES TO BE PROVIDED FOR HANDLING RISER(S) AND BASE HOLES TO BE FILLED WITH MIX #3 CONCRETE UPON INSTALLATION.
14. INVERT TO BE CONCRETE SLOPE 2" PER FOOT TOWARD OUTLET OR AS DIRECTED. (TO BE PROVIDED IN FIELD)





HEAVY DUTY
MACHINED BEARING SURFACES
MAT'L. ASTM A48 CL 35

EAST JORDAN FRAME 2935Z, COVER 2935C
OR NEENAH R-5915-E.

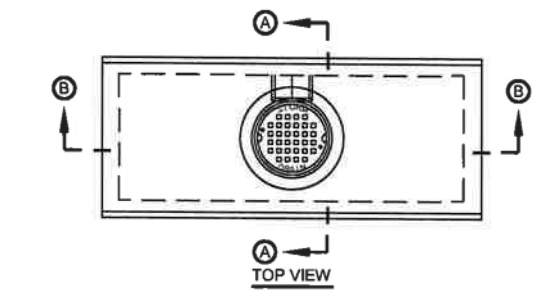
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	SIDEWALK FRAME & COVER TYPE "A-1" & "B-1" INLETS	DATE 7/27/98 SCALE NONE DWG. NO. STD50046 STD. NO. 500.46

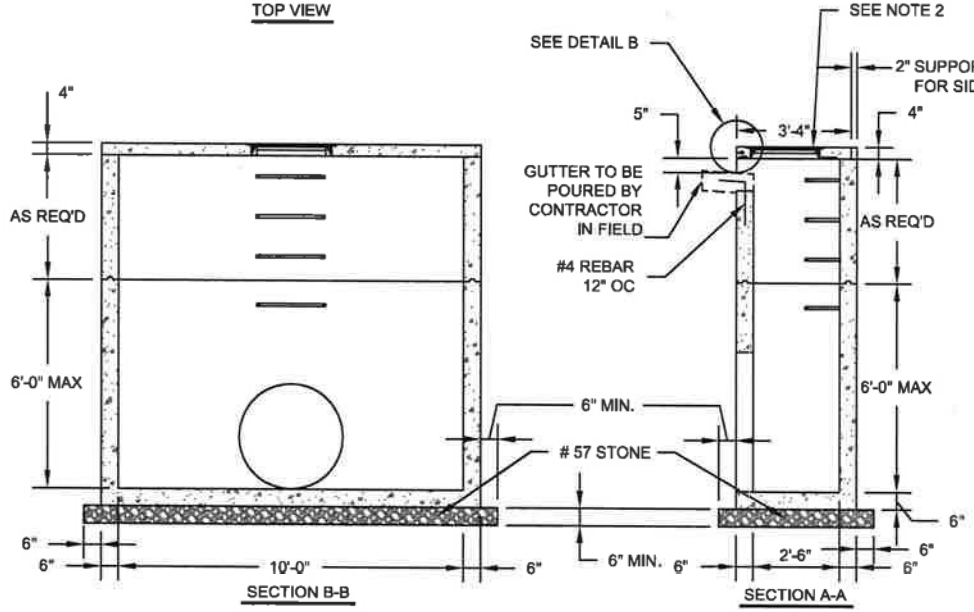
CITY OF SALISBURY
SALISBURY, MD

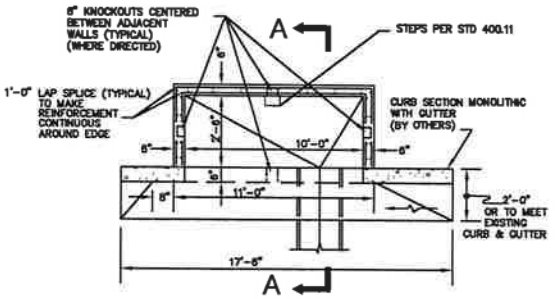
APPROVED
CITY ENGINEER
1/2/18
DATE

TYPE "B-1" INLET

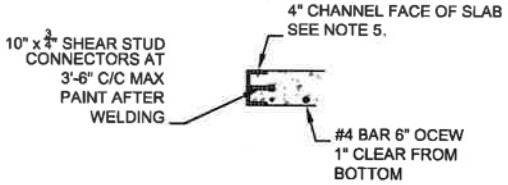
DATE 1/27/10
SCALE NONE
DWG. NO. STD50048
STD. NO. 500.48







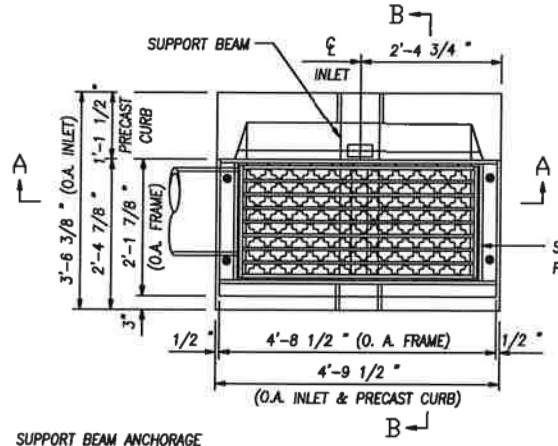
TOP VIEW



DETAIL B

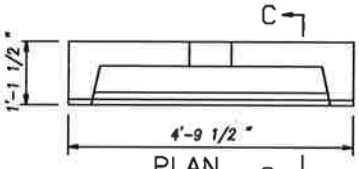
GENERAL NOTES:

1. CONCRETE SHALL BE MDSHA MIX No. 6 - 4, 500 P.S.I.
2. SIDEWALK FRAME AND COVER TO BE NEENAH R-5915-E. OR EAST JORDAN FRAME 2935Z, COVER 2935C.
3. STEPS INCLUDED WHEN BOX IS OVER 3'-6".
4. REINFORCING TO BE 2 LAYERS OF W4xW4 WELDED WIRE FABRIC.
5. TO BE PAINTED IN FIELD WITH RUSTOLEUM 3400 SYSTEM DTM 340 VOC ALKYD ENAMEL 3482402 SILVER GRAY.
6. MINIMUM COVER SHALL BE 1 1/2" FOR ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
7. (RISER SECTION) 5 FOOT MAXIMUM HEIGHT, 1 FOOT MINIMUM.
8. (BASE) 6' MAXIMUM HEIGHT, MINIMUM HEIGHT = PIPE O.D. + 6 IN. MEASURED FROM PIPE INVERT.
9. PIPE OPENINGS TO BE PROVIDED AS REQUIRED FOR SIZE, LOCATION AND INVERT ELEVATIONS. REFER TO PLANS.
10. PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON PLANS.
11. GROUT AROUND ALL PIPES USING NON-SHRINK GROUT JOINT FILLER.
12. WHERE USED, UNDERDRAIN SHALL BE GROUTED IN PLACE IN THE PROVIDED KNOCKOUT HOLES.
13. LIFT HOLES TO BE PROVIDED FOR HANDLING RISER(S) AND BASE HOLES TO BE FILLED WITH MIX #3 CONCRETE UPON INSTALLATION.
14. INVERT TO BE CONCRETE SLOPE 2" PER FOOT TOWARD OUTLET OR AS DIRECTED. (TO BE PROVIDED IN FIELD)

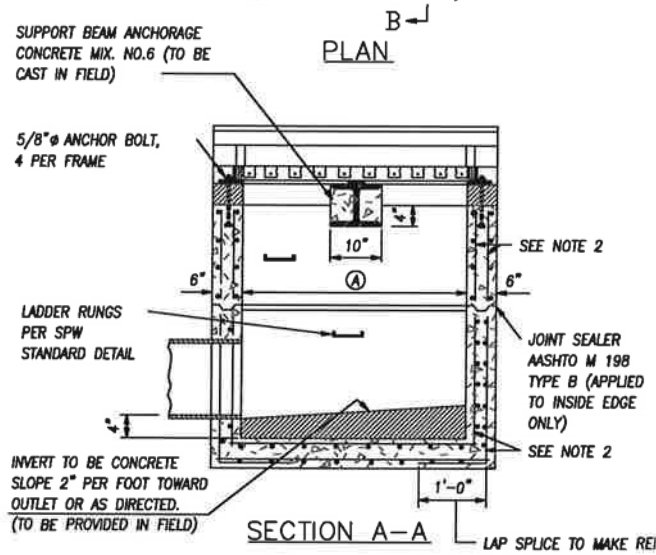


PLAN

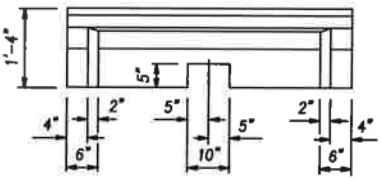
INLET TYPE	DIMENSIONS	
	A	B
NR OPEN THROAT	3'-9 1/2"	2'-6 3/8"
NR CLOSED THROAT	3'-9 1/2"	1'-10 3/8"



PLAN
PRECAST CURB

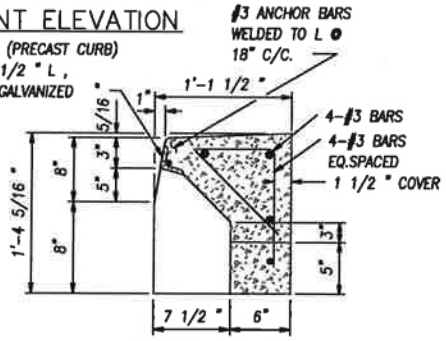


SECTION A–A

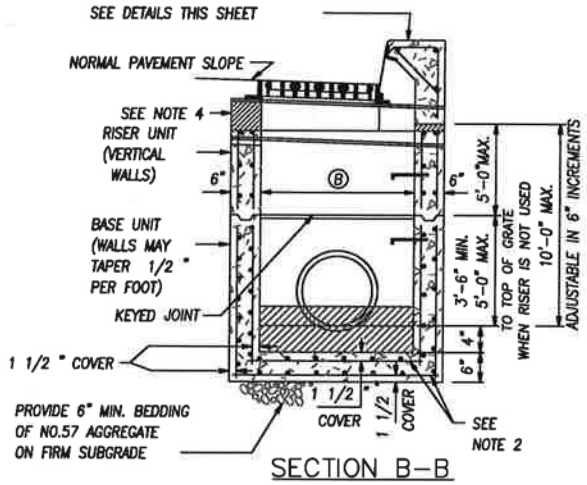


FRONT ELEVATION
(PRECAST CURB)

2 1/2 "x2 1/2 "x 1/2 " L ,
4'-9 1/2 " LONG. GALVANIZED



SECTION C–C

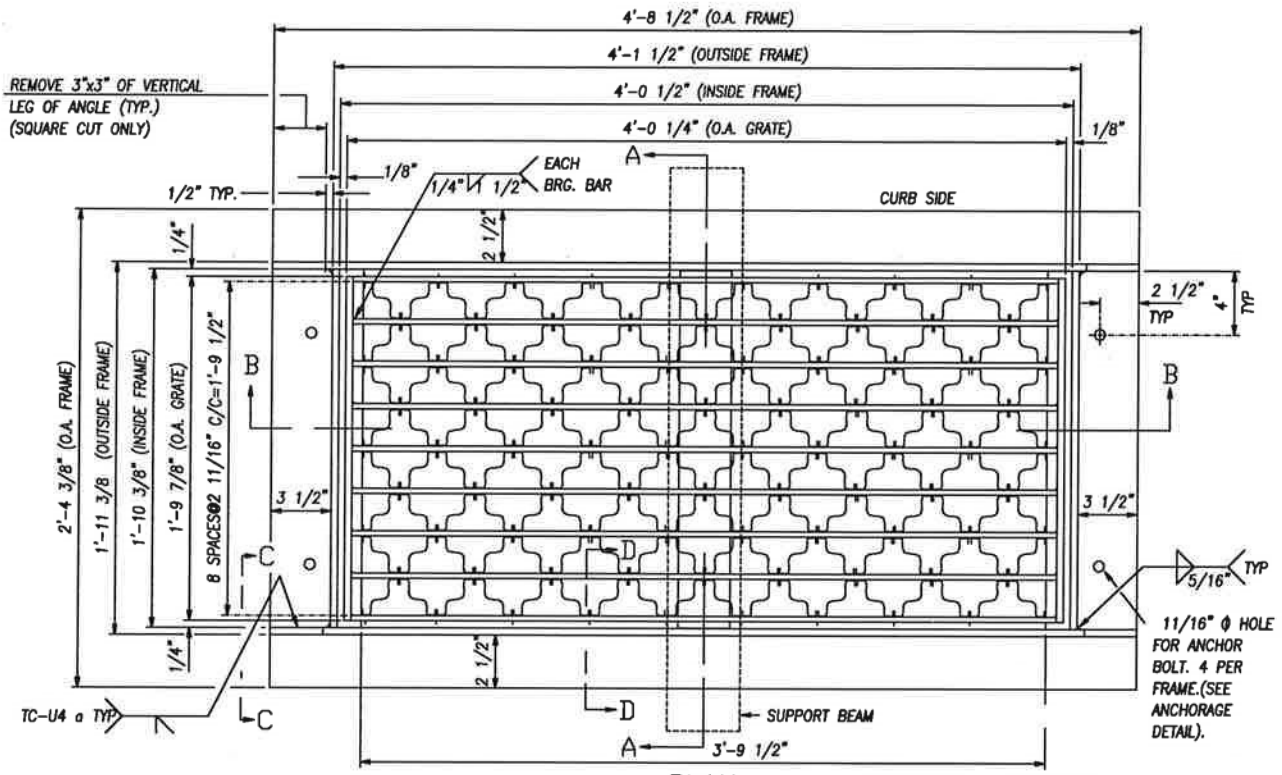


SECTION B–B

GENERAL NOTES

1. CONCRETE TO BE MIX NO.6 (4500PSI)
2. REINFORCING–2 LAYERS OF 4x4–W4.0xW4.0 WELDED WIRE FABRIC.
3. THREADED PLASTIC INSERTS TO BE PROVIDED FOR HANDLING.
4. GRADE AND SLOPE ADJUSTMENTS COMPLETED IN THE FIELD USING CONCRETE MIX NO.6.
5. PIPE OPENINGS TO BE PROVIDED AS REQUIRED, FOR SIZE, LOCATION AND INVERT ELEVATIONS REFER TO CONSTRUCTION PLANS.
6. PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON THE CONSTRUCTION PLANS.
7. LADDER RUNGS SHALL BE IN ACCORDANCE WITH SPW STANDARD DETAIL
8. OMIT SUPPORT BEAM W/ CLOSED THROAT VERSION

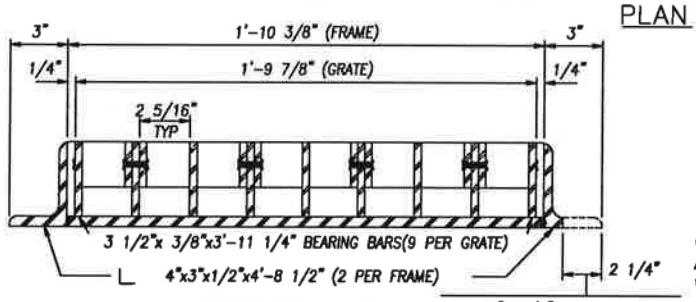
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	PRECAST NR INLET OPEN AND CLOSED THROAT	DATE 11/19/09
			SCALE NONE
			DWG. NO. STD50052
			STD. NO. 500.52



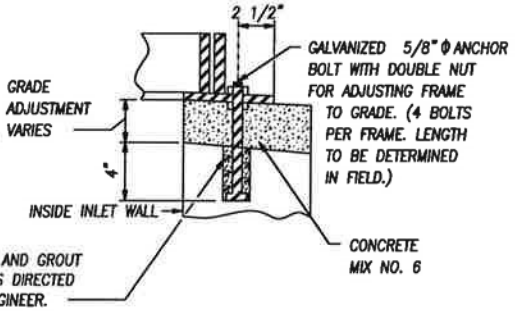
PLAN

GENERAL NOTES

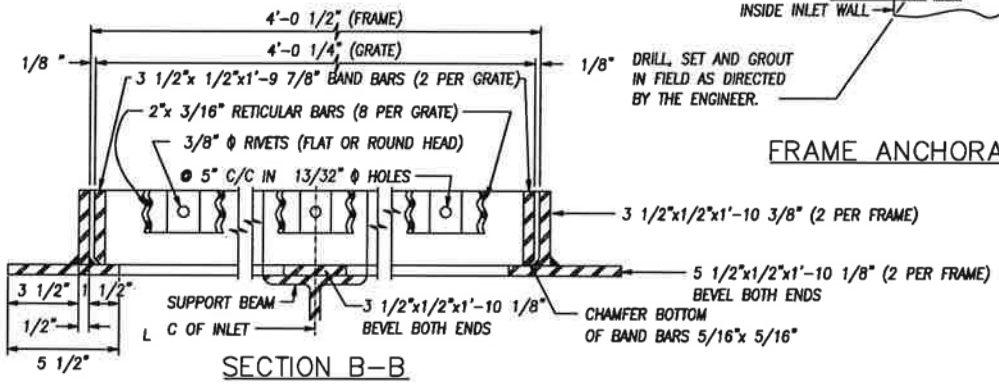
1. FRAMES & GRATES TO BE SQUARE, FLAT & TRUE.
2. STRUCTURAL STEEL SHALL BE A.S.T.M. A-36.
3. FRAMES & GRATES TO BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH A.S.T.M. A-123.



SECTION A-A

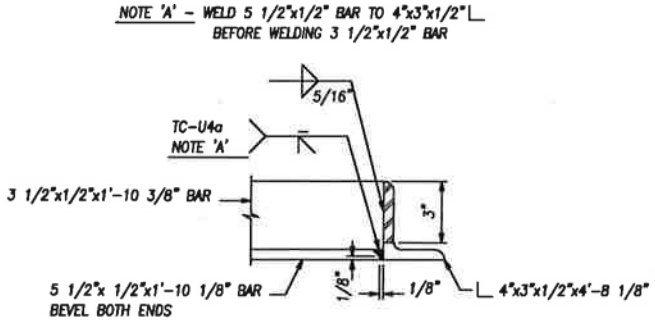


FRAME ANCHORAGE DETAIL

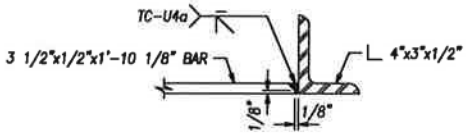


SECTION B-B

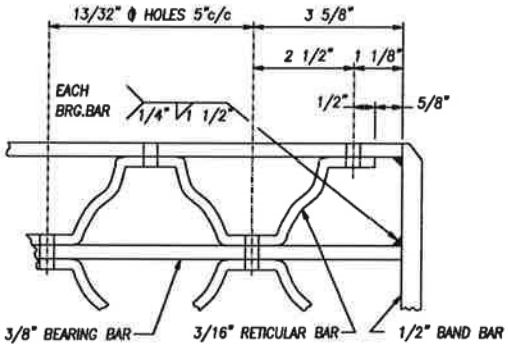
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD NR INLET FRAME & GRATE	DATE 2/19/10 SCALE N.T.S. DWG. NO. STD50053 STD. NO. 500.53



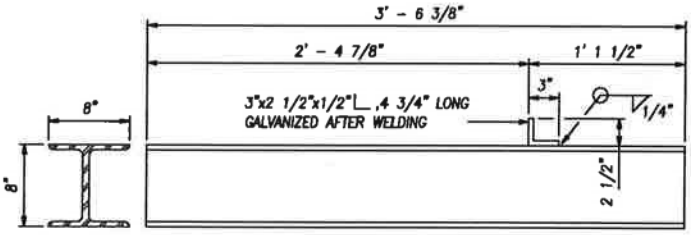
SECTION C–C



SECTION D–D
(GRATE NOT SHOWN)

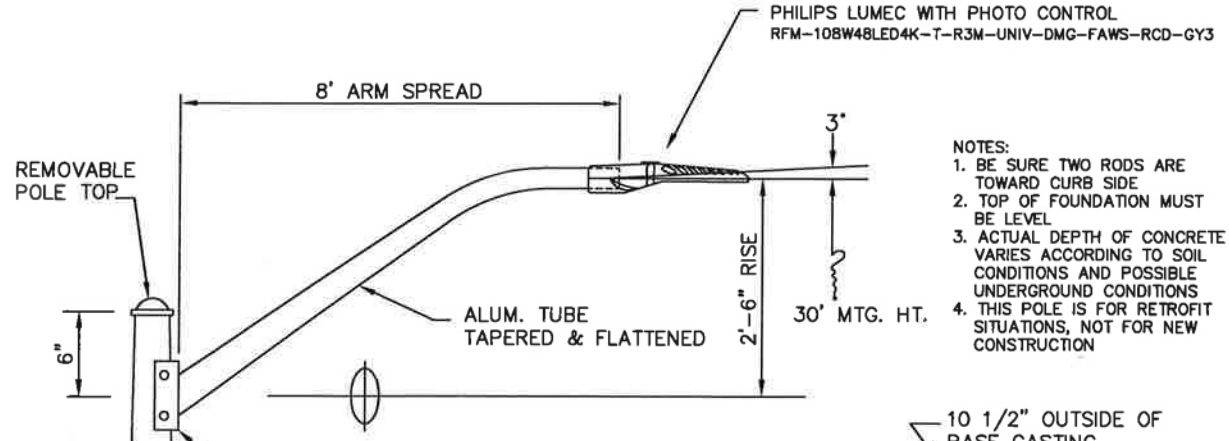


GRATING DETAIL



SUPPORT BEAM
W8x31 (GALVANIZED)

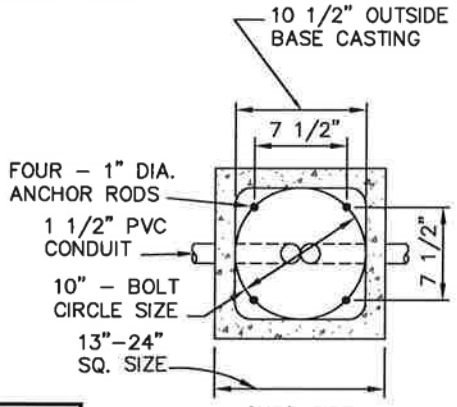
CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollock CITY ENGINEER	STANDARD NR INLET FRAME, GRATE AND SUPPORT BEAM DETAILS	DATE 2/19/10 SCALE N.T.S. DWG. NO. STD50054 STD. NO. 500.54



NOTES:
1. BE SURE TWO RODS ARE TOWARD CURB SIDE
2. TOP OF FOUNDATION MUST BE LEVEL
3. ACTUAL DEPTH OF CONCRETE VARIES ACCORDING TO SOIL CONDITIONS AND POSSIBLE UNDERGROUND CONDITIONS
4. THIS POLE IS FOR RETROFIT SITUATIONS, NOT FOR NEW CONSTRUCTION

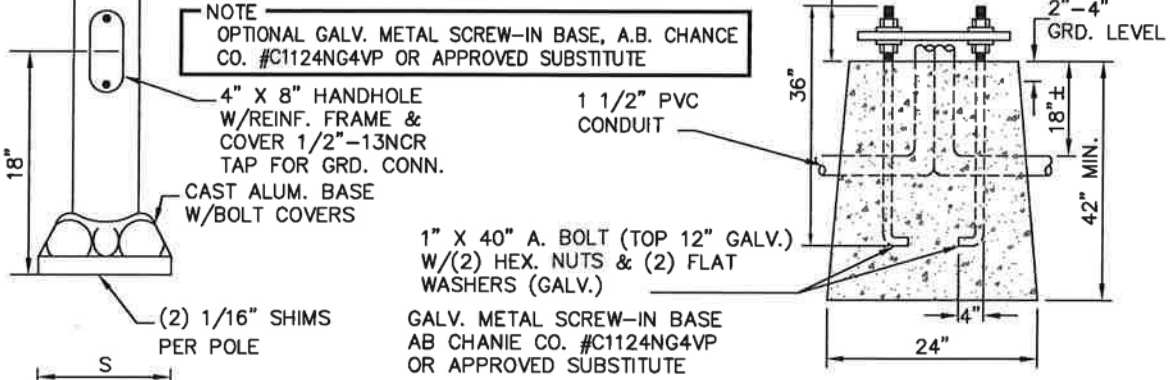
CONCRETE WORKMANSHIP

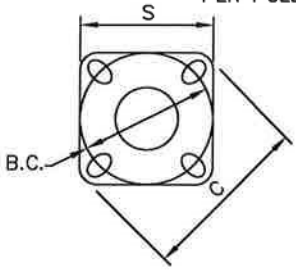
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIAL SPECIFICATIONS FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL–LATEST REVISION.



NOTE
POLE TO BE MANUFACTURED BY UNION METAL MANUFACTURING CO., CANTON, OH. OR HAPCO 21–647 30' POLE W/8' ARM

NOTE
OPTIONAL GALV. METAL SCREW–IN BASE, A.B. CHANCE CO. #C1124NG4VP OR APPROVED SUBSTITUTE





POLE SIZE	BOLT CIRCLE TEMP.	BOLT CIRCLE RANGE	C	S
7" DIA.	10"	10"–11"	13 5/8"	10 1/2"

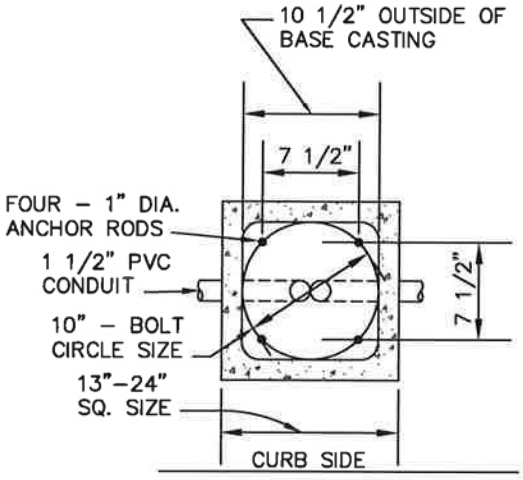
POLE SIZE	NO. ARMS	CATALOG NO.	ARM SPRD.	MTG. HT.
.188W.S7.0X4.5X28'–0"	1	4D704D–289–CBD	8'	30'

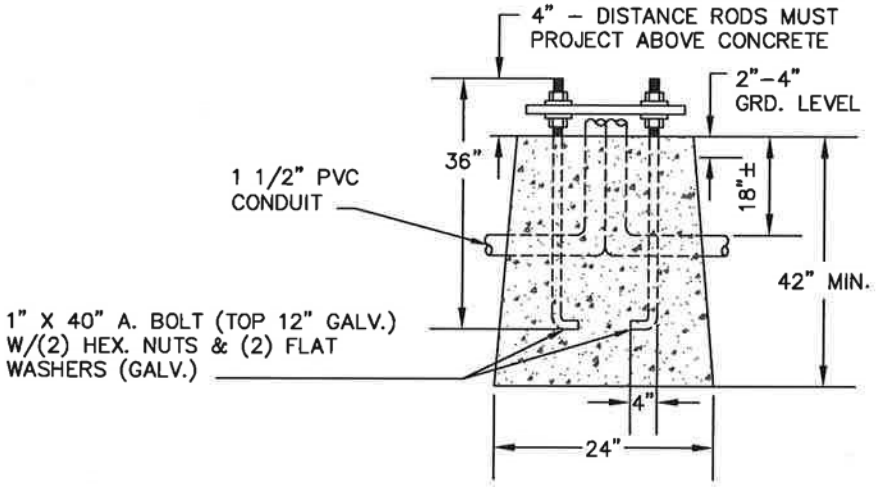
CITY OF SALISBURY
SALISBURY, MD

APPROVED
1/2/18
DATE
Amanda Pollack
CITY ENGINEER

LED COBRA HEAD LIGHTING POLE & FOUNDATION

DATE	10/14/85
SCALE	NONE
DWG. NO.	STD60001
STD. NO.	600.01





NOTE FOR STANDARD 600.01
OPTIONAL GALV. METAL SCREW–IN BASE, A.B. CHANCE CO. #C1124NG4VP, McCLEAN POWER SYSTEMS CO. #D1202–0053 OR APPROVED SUBSTITUTE

NOTE FOR STANDARD 600.04
OPTIONAL GALV. METAL SCREW–IN BASE, McCLEAN POWER SYSTEMS CO. #D1202–0231 OR APPROVED SUBSTITUTE

CONCRETE WORKMANSHIP

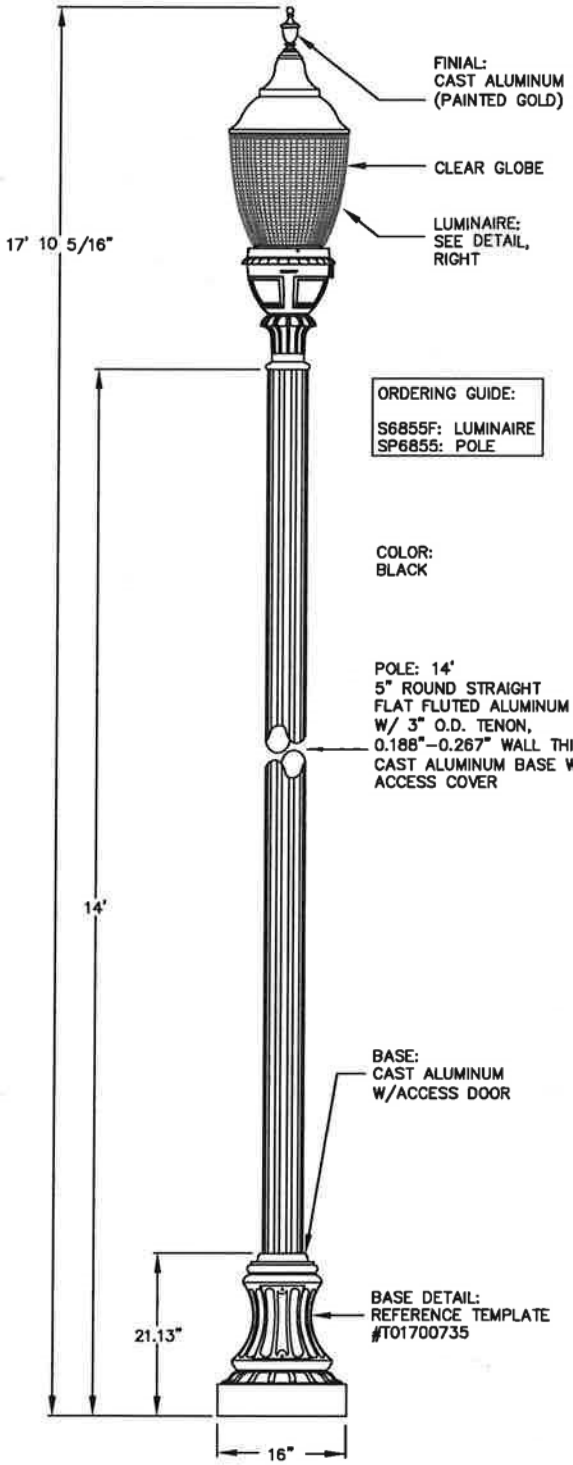
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS–CONCRETE IN THE "CONSTRUCTION & MATERIAL SPECIFICATIONS FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL–LATEST REVISION.

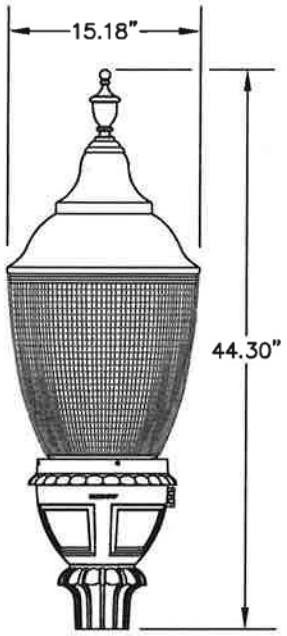
NOTES:
1. BE SURE TWO RODS ARE TOWARD CURB SIDE
2. TOP OF FOUNDATION MUST BE LEVEL
3. ACTUAL DEPTH OF CONCRETE VARIES ACCORDING TO SOIL CONDITIONS AND POSSIBLE UNDERGROUND CONDITIONS

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	FOUNDATION FOR LIGHTING POLE	DATE 11/17/15 SCALE NONE DWG. NO. STD60002 STD. NO. 600.02

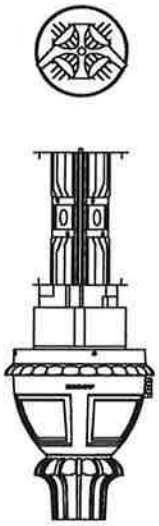
NOTICE:
THIS DRAWING IS FOR REFERENCE ONLY. CHECK FOR LATEST REVISION PRIOR TO ORDERING

ORNAMENTAL LIGHT FIXTURE SHALL BE AS MANUFACTURED BY PHILIPS HADCO, OR APPROVED SUBSTITUTE





TOP VIEW LUMILOCK L.E.D. ASSEMBLY



LUMINAIRE DETAIL

FASTENERS:
X ALLEN HEAD BOLTS
__ HEX HEAD BOLTS

COLOR:
X BLACK
__ HEX HEAD BOLTS

PHOTO CONTROL:
__ 120V BUTTON EYE
__ 208V/240V/277V BUTTON EYE
__ 347V BUTTON EYE
__ TWIST-LOCK RECEPTACLE
X NONE

PHOTO CONTROL:
__ 4 HRS. 25% REDUCTION
__ 4 HRS. 50% REDUCTION
__ 4 HRS. 75% REDUCTION
__ 6 HRS. 25% REDUCTION
__ 6 HRS. 50% REDUCTION
__ 6 HRS. 75% REDUCTION
__ 8 HRS. 25% REDUCTION
__ 8 HRS. 50% REDUCTION
__ 8 HRS. 75% REDUCTION
__ CUSTOM DIMMING SCHEDULE
X NONE

LUMILOCK LED SPECIFICATIONS:

— 80, 4000K (NEURAL) PHILIPS LUMILEDS LUXEON R LEDs, MIN. 70 COLOR RENDERING INDEX (CRI), >80,000 HRS. OF OPERATIONAL LIFE (AT 25 C AMBIENT TEMP. & 70% LUMEN MAINTENANCE), ALUMINUM CORE PCB, SEALED GLASS LENS, IP66 RATED, TYPE V LIGHT DISTRIBUTION.

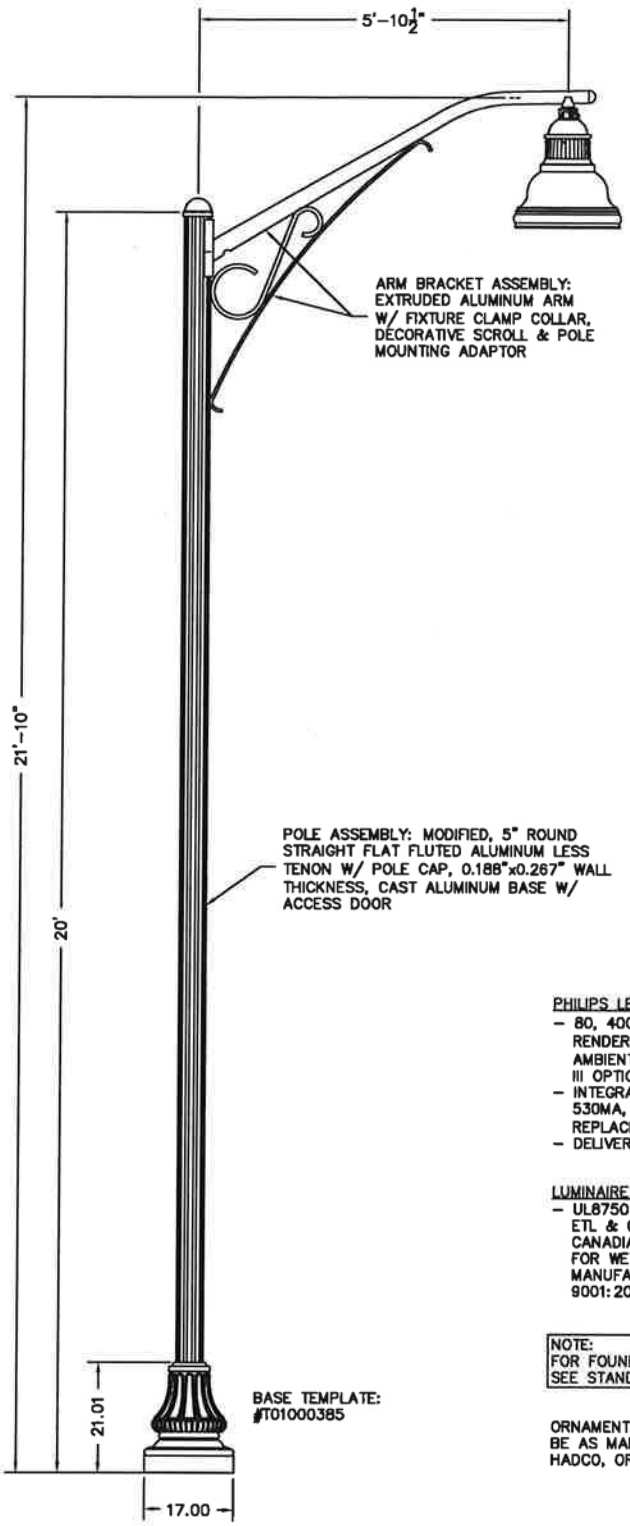
— INTEGRAL PHILIPS ADVANCE XITANIUM LED DRIVER, CLASS 1, IP66 RATED, 350mA, 0–10V DIMMING, INTELLIVOLT 120–277 VAC, 50–60 Hz, RoHS COMPLIANT, FIELD REPLACEABLE 10dV/10kA SURGE SUPRESSION.

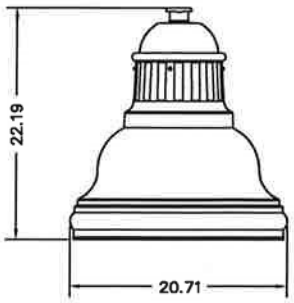
— MANUFACTURED TO ISO 9001:2008 STANDARDS.

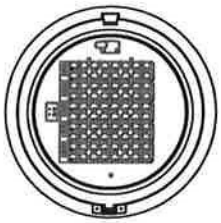
NOTE:
FOR FOUNDATION SPECIFICATIONS SEE STANDARD 600.02

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	RESIDENTIAL ROAD ORNAMENTAL LIGHT FIXTURE	DATE 11/17/15 SCALE NTS DWG. NO. STD60004 STD. NO. 600.04

NOTICE:
THIS DRAWING IS FOR REFERENCE ONLY. CHECK FOR LATEST REVISION PRIOR TO ORDERING







MOUNTING:
X CAST NECK
_ THREADED PIPE

COLOR:
X BLACK
_ WHITE
_ VERDE
_ BRONZE
_ GRAY

DIMMING CONTROL:
_ 4 HRS 25% REDUCTION
_ 4 HRS 50% REDUCTION
_ 4 HRS 75% REDUCTION
_ 6 HRS 25% REDUCTION
_ 6 HRS 50% REDUCTION
_ 6 HRS 75% REDUCTION
_ 8 HRS 25% REDUCTION
_ 8 HRS 50% REDUCTION
_ 8 HRS 75% REDUCTION
_ CUSTOM DIMMING SCHEDULE
X NONE

OPTIONS:
X FLUTED SPINNING
_ NONE

PHILIPS LEDGINE SPECIFICATIONS:
- 80, 4000K (NEUTRAL) PHILIPS LUMILEDS LUXEON T LEDS, TYPICAL 75 COLOR RENDERING INDEX (CRI), >100,000 HOURS OF OPERATIONAL LIFE (AT 25°C AMBIENT TEMPERATURE & 70% LUMAN MAINTENANCE), INJECTION MOLDED TYPE III OPTICAL PLATES, IP66 RATED LED MODULE.
- INTEGRAL PHILIPS ADVANCE XITANIUM LED DRIVER, CLASS 1, IP66 RATED, 530MA, INTELLIVOLT 120-277 VAC, 50-60 HZ, ROHS COMPLIANT, FIELD REPLACEABLE 10KV/10KA SURGE SUPPRESSION.
- DELIVERED LUMENS: 14027, WATTAGE: 127W.

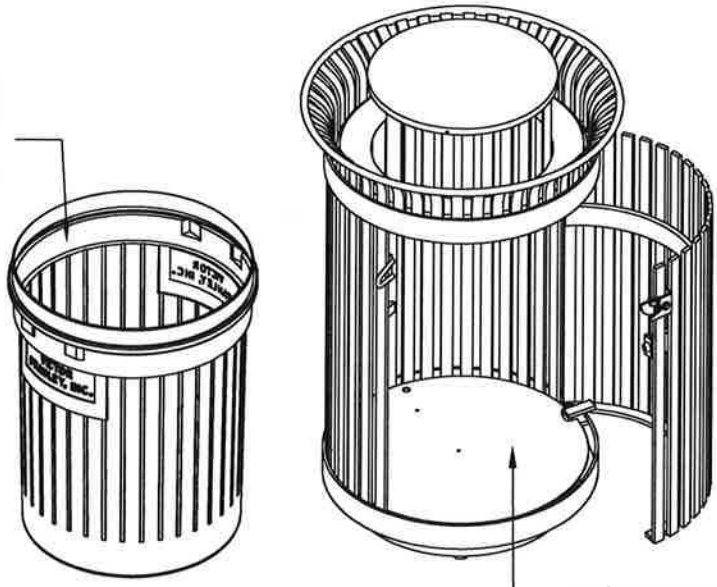
LUMINAIRE CERTIFICATIONS:
- UL8750 & UL1598 COMPLIANT, ETL & CETL LISTED TO U.S. & CANADIAN SAFETY STANDARDS FOR WET LOCATIONS, MANUFACTURED TO ISO 9001:2008 STANDARDS.

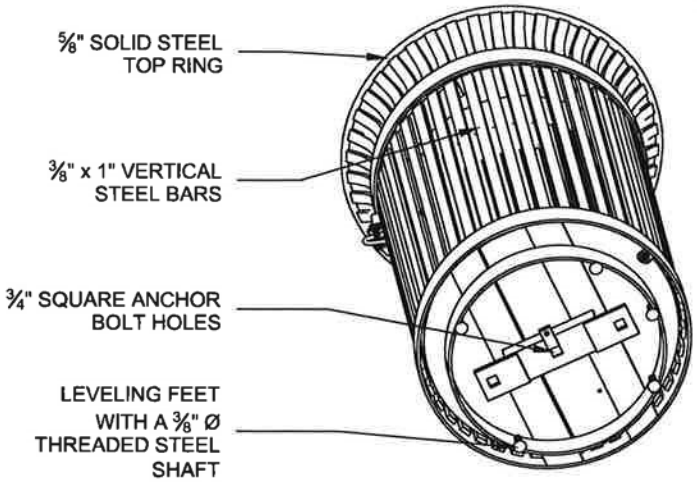
NOTE:
FOR FOUNDATION SPECIFICATIONS SEE STANDARD 600.02

ORNAMENTAL LIGHT FIXTURE SHALL BE AS MANUFACTURED BY PHILLIPS HADCO, OR APPROVED SUBSTITUTE

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	COLLECTOR ROAD ORNAMENTAL LIGHT FIXTURE	DATE 5/30/06 SCALE NONE DWG. NO. STD60005 STD. NO. 600.05

VS SD-42 RECEPTACLE



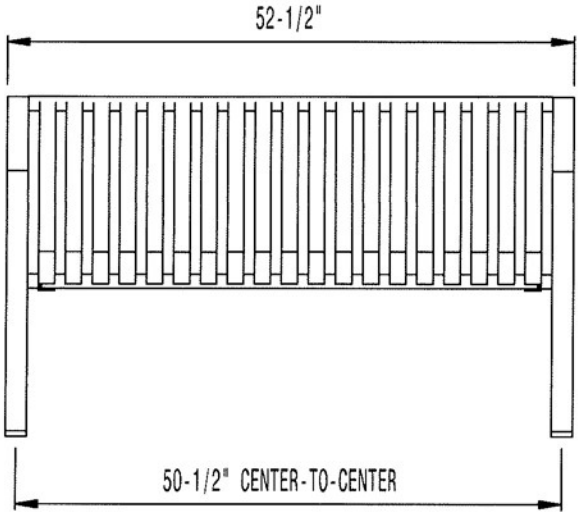


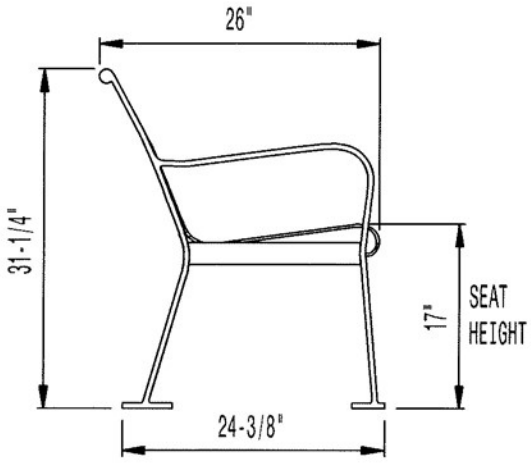
NOTES:

1. PROVIDE TRASH RECEPTACLE MODEL SD-42 IRONSITES COLLECTION™ WITH RAIN BONNET LID (NO ASHTRAY). BY VICTOR STANLEY:
   VICTOR STANLEY, P.O. DRAWER 330, 2103 BRICKHOUSE ROAD, DUNKIRK, MD 20754
   PH: 301-855-8300, FX: 410-257-7579
   WWW.VICTORSTANLEY.COM
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. FRAME COLOR: BLACK; SLAT COLOR: BLACK; DECALS: STANDARD RECYCLE DECALS FOR TOP BAND
4. FINISH: POWDER COAT
5. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
6. ALL FASTENERS TO BE STAINLESS STEEL AND TAMPER RESISTANT
7. ASHTRAY TO BE ECOLAD CIGARETTE WASTE CONTAINER ECO1601. TO BE INSTALLED ON TRASH RECEPTACLES ONLY. HOLES THROUGH THE TRASH RECEPTACLES TO BE PRE-DRILLED BY VICTOR STANLEY. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF HOW IT IS FASTENED TO THE TRASH RECEPTACLE WITHOUT DAMAGING THE FINISH ON THE RECEPTACLES.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	STANDARD TRASH RECEPTACLE	DATE 01/24/17 SCALE N.T.S. DWG NO STD60006 STD NO 600.06

VS RB-28 BENCH



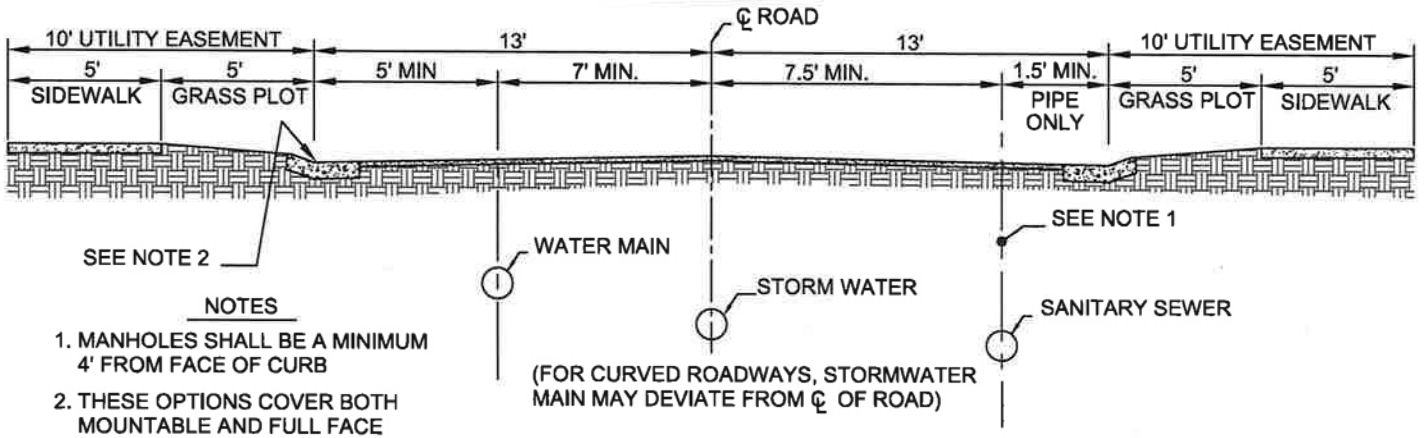


NOTES:

1. PROVIDE BENCH MODEL RB-28, STEELSITES™ RB COLLECTION, 4' LENGTH, VERTICAL, STEEL SLATS. BY VICTOR STANLEY:
   VICTOR STANLEY
   P.O. DRAWER 330
   2103 BRICKHOUSE ROAD
   DUNKIRK, MD 20754
   PH: 301-855-8300
   FX: 410-257-7579
   WWW.VICTORSTANLEY.COM
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. FRAME COLOR: BLACK; SLAT COLOR: BLACK
4. FINISH: POWDER COAT
5. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
6. ALL FASTENERS TO BE STAINLESS STEEL AND TAMPER RESISTANT

CITY OF SALISBURY SALISBURY, MD	APPROVED 12/28/18 DATE Amanda Pollack CITY ENGINEER	STANDARD BENCH	DATE 01/24/17 SCALE N.T.S. DWG NO STD60007 STD NO 600.07

OPTION A

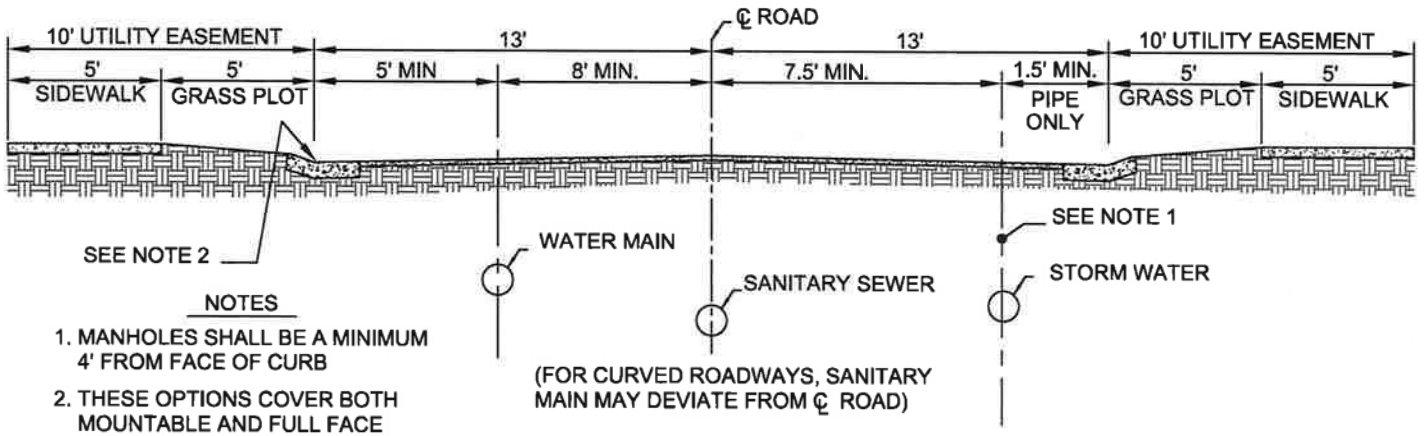


NOTES

1. MANHOLES SHALL BE A MINIMUM 4' FROM FACE OF CURB
2. THESE OPTIONS COVER BOTH MOUNTABLE AND FULL FACE CURB CONSTRUCTION.

(FOR CURVED ROADWAYS, STORMWATER MAIN MAY DEVIATE FROM ℄ OF ROAD)

OPTION B

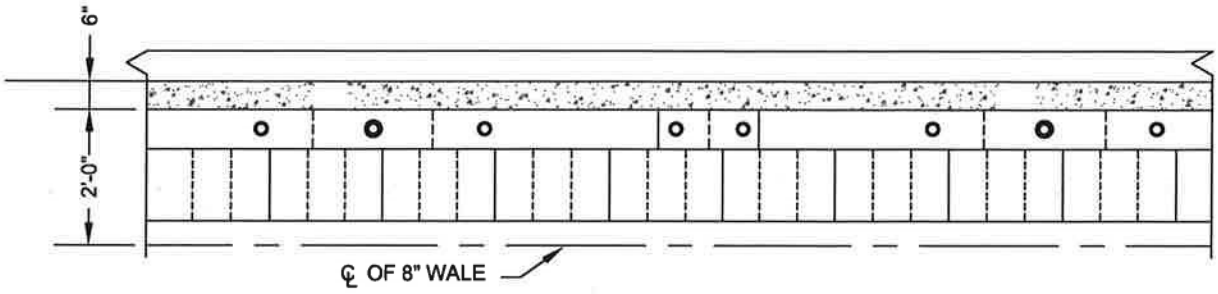


NOTES

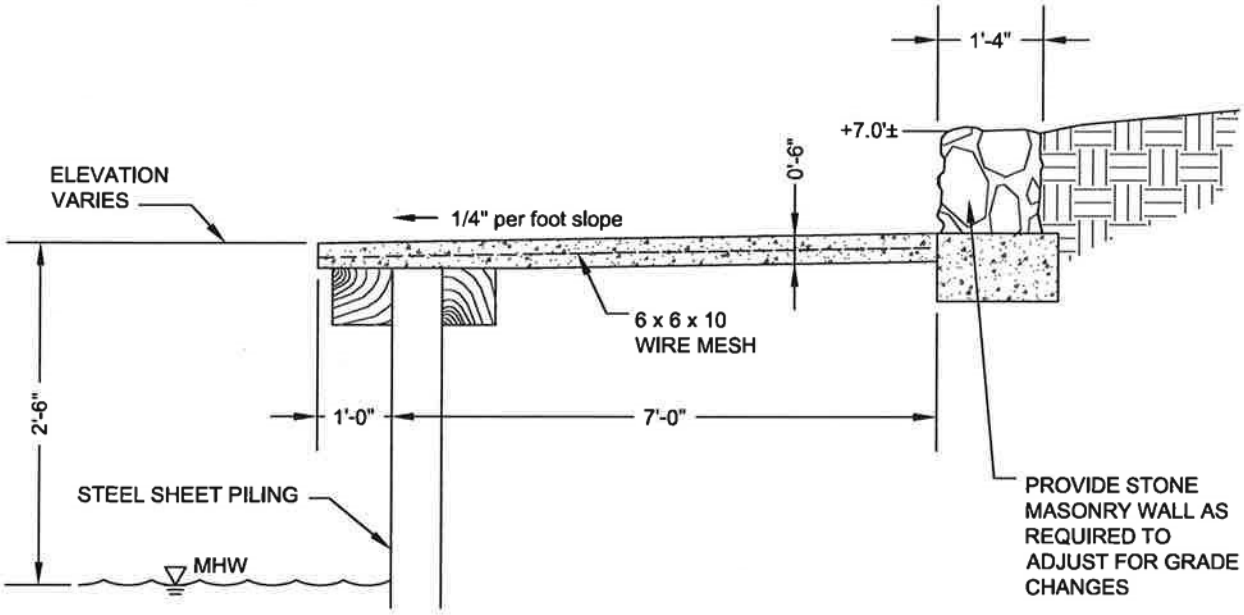
1. MANHOLES SHALL BE A MINIMUM 4' FROM FACE OF CURB
2. THESE OPTIONS COVER BOTH MOUNTABLE AND FULL FACE CURB CONSTRUCTION.

(FOR CURVED ROADWAYS, SANITARY MAIN MAY DEVIATE FROM ℄ ROAD)

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	SAMPLE UTILITY SEPARATION TYPICAL 26' LOCAL STREET	DATE 11/08/2006 SCALE NONE DWG NO. STD60009 STD. NO. 600.09



ELEVATION



CROSS SECTION

NOTES:

1. RIVERWALK SURFACE SHALL BE STAMPED, COLORED CONCRETE. THE SURFACE SHALL HAVE A FORMED WOOD GRAIN TEXTURE AND THE CONCRETE SHALL BE COLORED GRAY. THE WOOD GRAIN PATTERN SHALL AS BE CLASSIC WOOD TEXTURE MAT, FM-8700 S/O MANUFACTURED BY BRICKFORM, SOLOMON COLORS, INC. OR APPROVED EQUIVALENT
2. BENCHES AND TRASH RECEPTACLES SHALL BE PLACED AT A MAXIMUM OF EVERY 200 FEET ALONG THE LENGTH OF THE RIVERWALK. AT A MINIMUM, EACH PROPERTY SHOULD HAVE ONE BENCH AND ONE TRASH RECEPTACLE. BENCHES AND TRASH RECEPTACLES SHALL MEET CITY STANDARDS 600.06 AND 600.07.
3. LIGHTING SHALL BE PROVIDED PER CITY STANDARD 600.01.

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 Amanda Pollack DATE CITY ENGINEER	RIVERWALK	DATE 6/18/15 SCALE NONE DWG. NO. STD60012 STD. NO. 600.12

MISCELLANEOUS

CORPORATE LIMIT

EASEMENT LINE

PROPERTY LINE W/BOUNDARY MARKERS

EDGE OF PAVEMENT

RAILWAYS

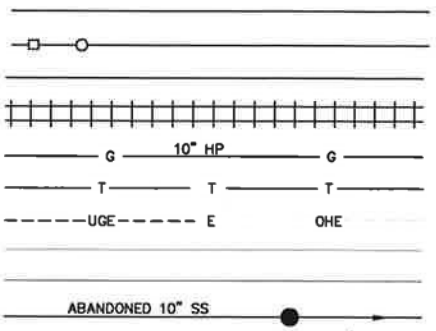
GAS MAINS

TELEPHONE

ELECTRIC: UNDERGROUND, OVERHEAD

DITCH LINE/BOTTOM OF DITCH

TOP OF BANK/DITCH

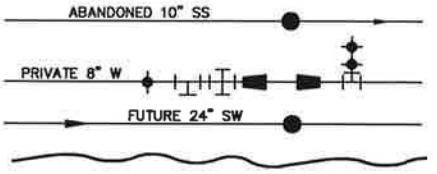


ABANDONED, PRIVATE, FUTURE (SAN.) SEWER

ABANDONED, PRIVATE, FUTURE WATER

ABANDONED, PRIVATE, FUTURE STORMWATER

HYDROGRAPHY (RIVERS & PONDS)



HATCH PATTERNS

SPW Utilities	DRAINAGE ESMTS.	PRIVATE ESMTS.	SWM	FOREST CONSERVATION
ANSI31 HATCH 2 (X) SCALE	NET HATCH 2 (X) SCALE	DOTS HATCH .5 (X) SCALE	GRASS HATCH 2 (X) SCALE	HONEY HATCH .75 (X) SCALE

EXISTING WORK

INLETS, CURB TYPE, GRATING TYPE

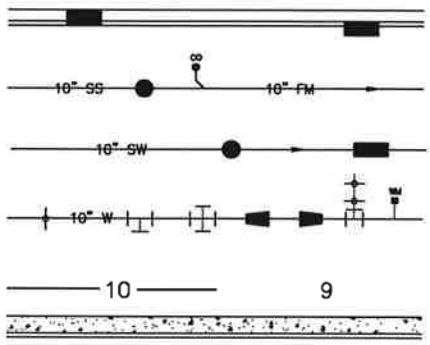
SANITARY SEWER, MANHOLE, CLEAN OUT, FORCE MAIN & FLOW ARROW

STORM WATER DRAIN, MANHOLE & FLOW ARROW

WATER MAIN, VALVE, TEE, CROSS, INCREASER, REDUCER, FIRE HYDRANT & WATER METERS

GRADES/CONTOUR LINES (INDEX, INTERMEDIATE)

CURB & SIDEWALK



PROPOSED / NEW WORK / AS-BUILT

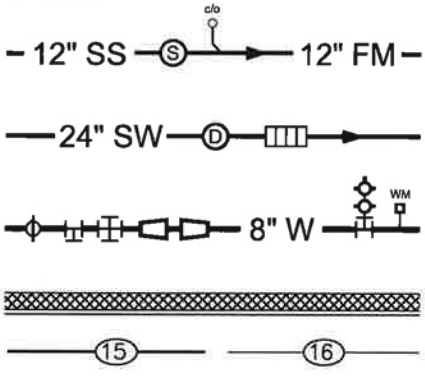
SANITARY SEWER, MANHOLE, CLEAN OUT, FLOW ARROW & FORCE MAIN

STORM WATER DRAIN, MANHOLE GRATE INLET & FLOW ARROW

WATER MAIN, VALVE, TEE, CROSS, INCREASER, REDUCER, FIRE HYDRANT & WATER METER

CURB & SIDEWALK

GRADES/CONTOUR LINES (INDEX, INTERMEDIATE)



CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 DATE Amanda Pollack CITY ENGINEER	CAD STANDARDS FOR CONTRACT DRAWINGS	DATE 4/05/99 SCALE NONE DWG. NO. STD60021 STD. NO. 600.21