



City of
Salisbury
Jacob R. Day, Mayor

CONSTRUCTION STANDARDS

Issued January 2, 2018

Revision Log:

12/28/18: Revised STD 600.07 Standard Bench

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CONSTRUCTION STANDARDS

Latest revision 01-02-18

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City of
Salisbury
Jacob R. Day, 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Any Standards previously issued by the City of Salisbury are herewith superseded as of the latest revision date shown on the pertinent Standard.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: 01-02-18

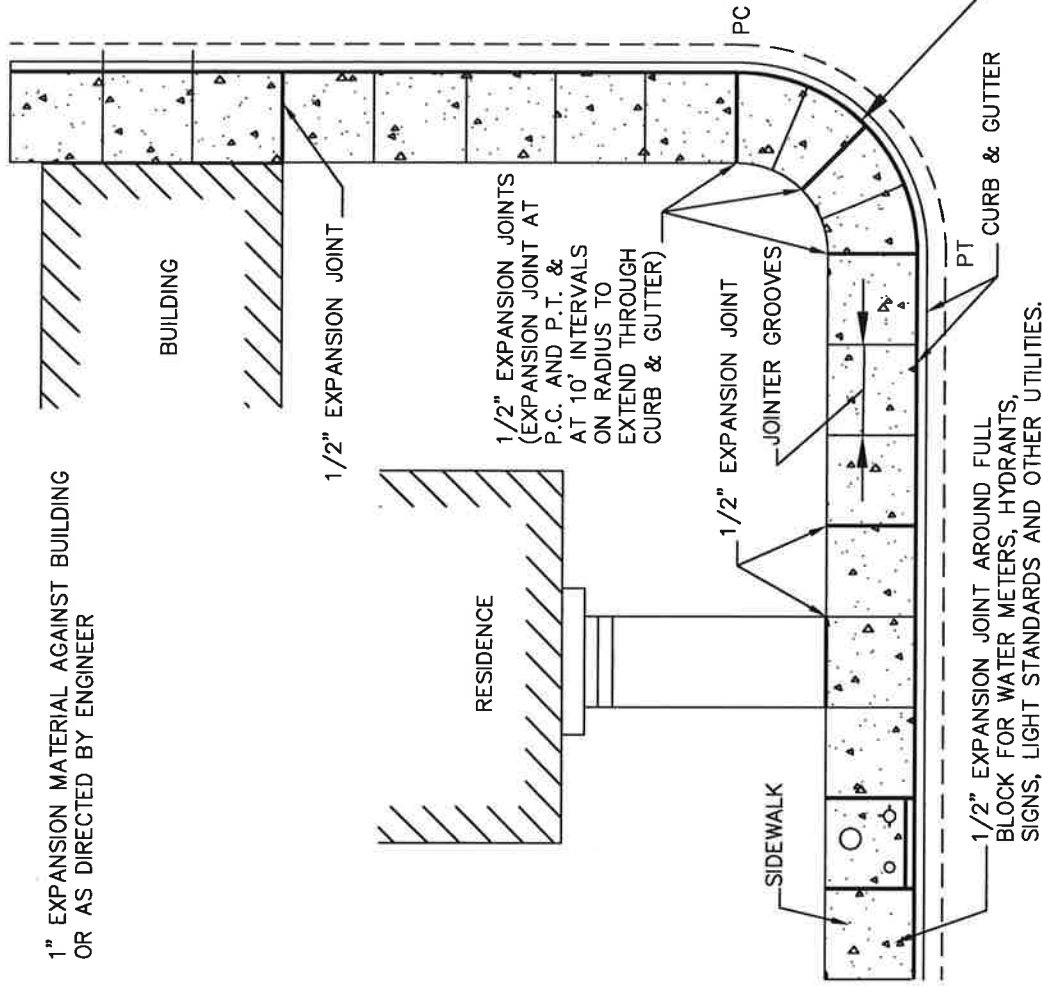
1" EXPANSION MATERIAL AGAINST BUILDING
OR AS DIRECTED BY ENGINEER

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.



APPROVED

1/2/18

DATE

Amanda H. Black

CITY ENGINEER

CITY OF SALISBURY

SALISBURY, MD

CURB, GUTTER, AND SIDEWALK

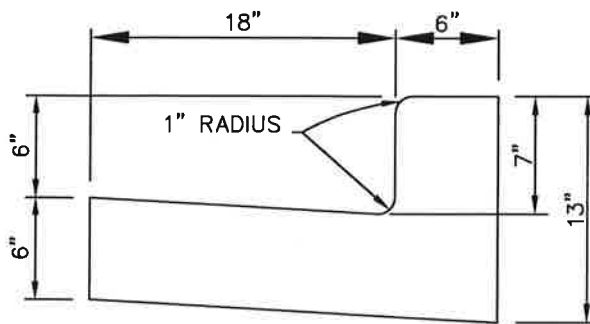
EXPANSION JOINTS

DATE 1/13/77

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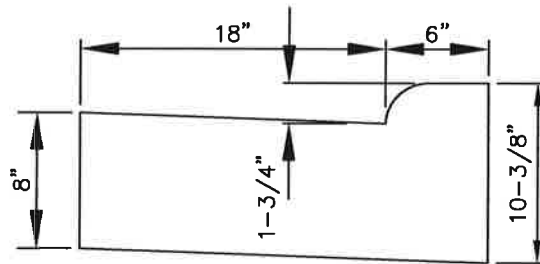
DWG NO. STD10010

STD. NO 100.10



A

STANDARD CURB & GUTTER



B

STANDARD CURB & GUTTER IN DRIVEWAYS

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED
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LATEST REVISION.

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SALISBURY, MD

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1/2/10
Amanda Pollack
DATE
CITY ENGINEER

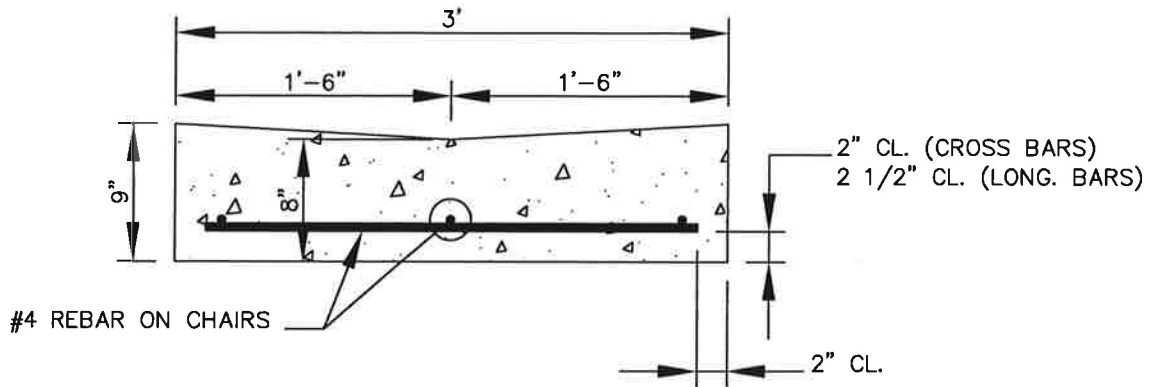
STANDARD DETAILS FOR
CURB & GUTTER

DATE 3/16/95

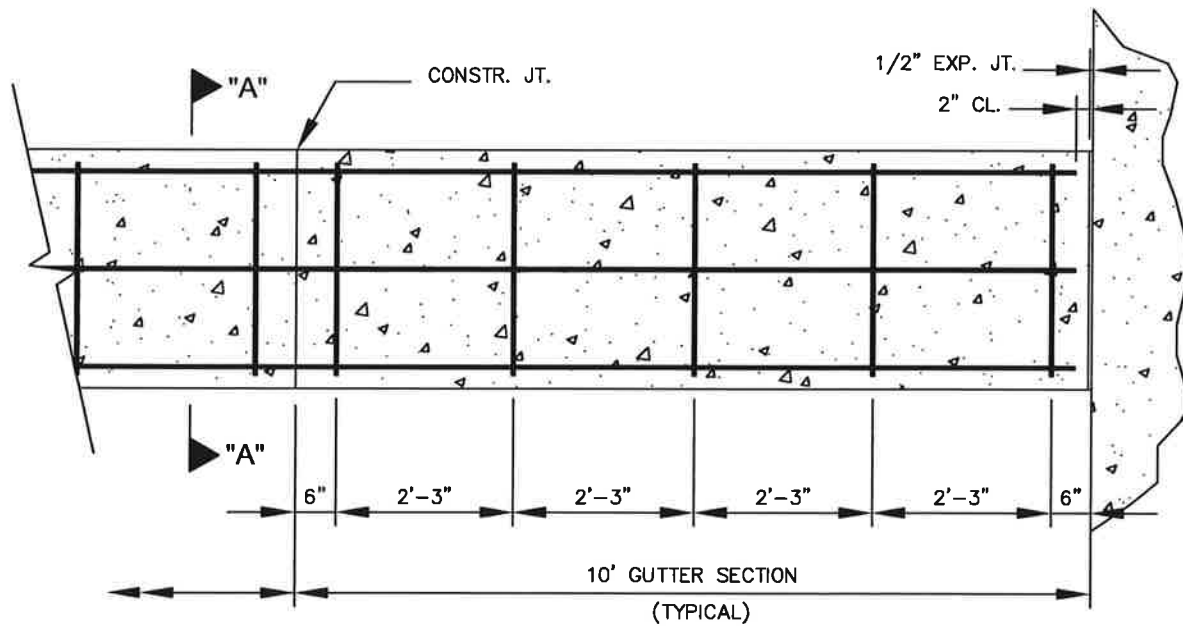
SCALE NONE

DWG. NO. STD10011

STD. NO. 100.11



SECTION "A-A"



PLAN

CONCRETE WORKMANSHIP

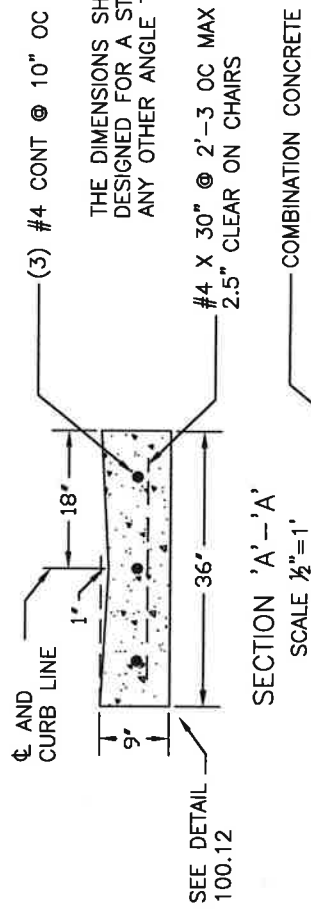
UNLESS OTHERWISE SPECIFIED, CONCRETE WORKMANSHIP SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS- CONCRETE SECTION IN THE "CONSTRUCTION & MATERIALS SPECIFICATIONS FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

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SALISBURY, MD

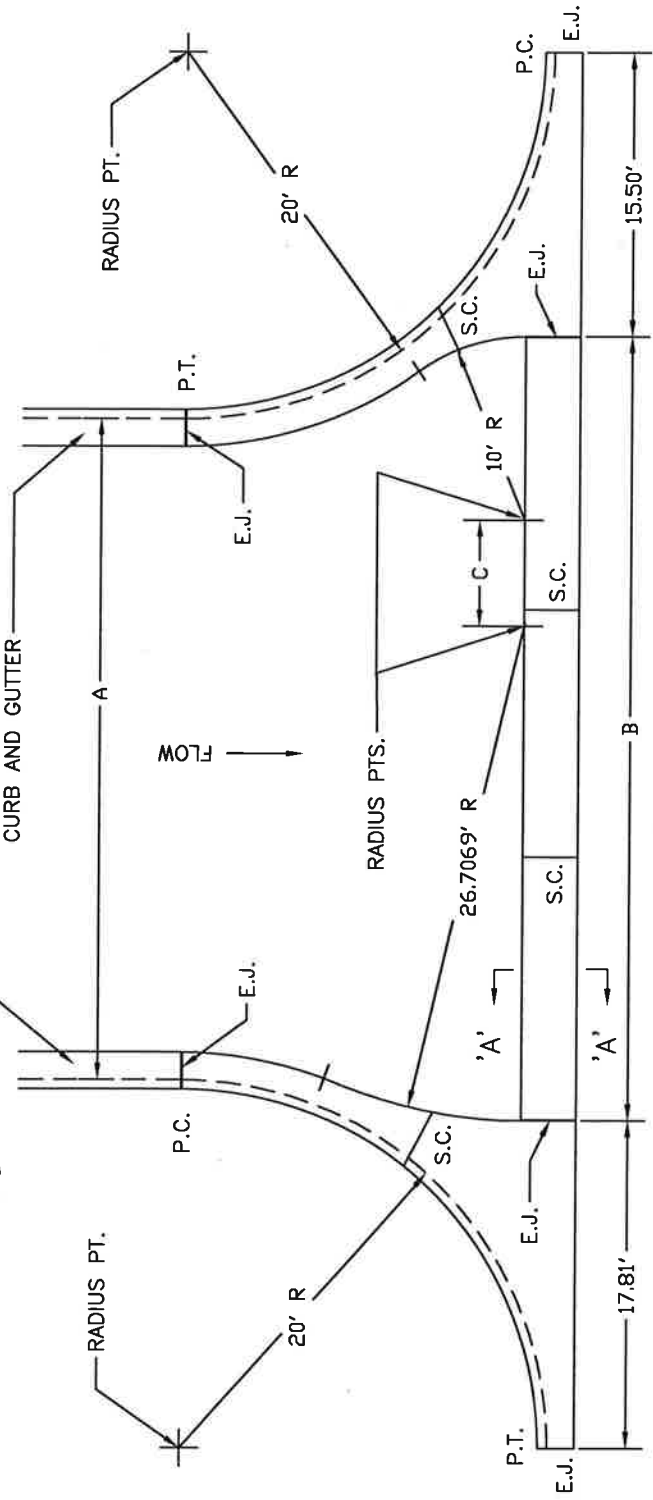
APPROVED
1/2/18
DATE
Amanda Pollack
CITY ENGINEER

STANDARD DETAIL FOR
VEE-GUTTER
CONSTRUCTION

DATE 7/13/05
SCALE NTS
DWG. NO. STD10012
STD. NO. 100.12



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.



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

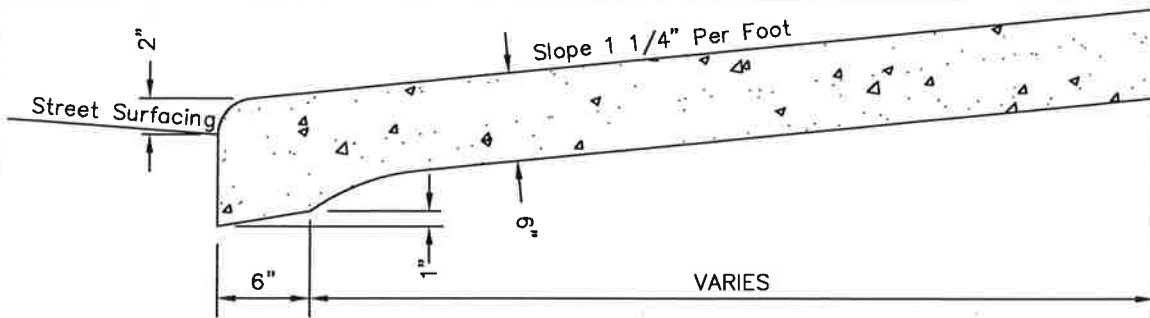
- NOTES:
1. CONCRETE - MD. S.H.A. MIX NO.2
 2. FINISH - LIGHT TO MEDIUM BROOM FINISH
 3. E.J. = EXPANSION JOINT WITH PREFORMED JOINT FILLER (FULL DEPTH OF CONCRETE) BITUMINOUS FIBER TYPE - AASHTO M 213
 4. CONTROL JOINTS AT 10' O.C. MIN. IN VALLEY GUTTER AND CURB & GUTTER.
 5. S.C. = SAW CUT BEFORE CURING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

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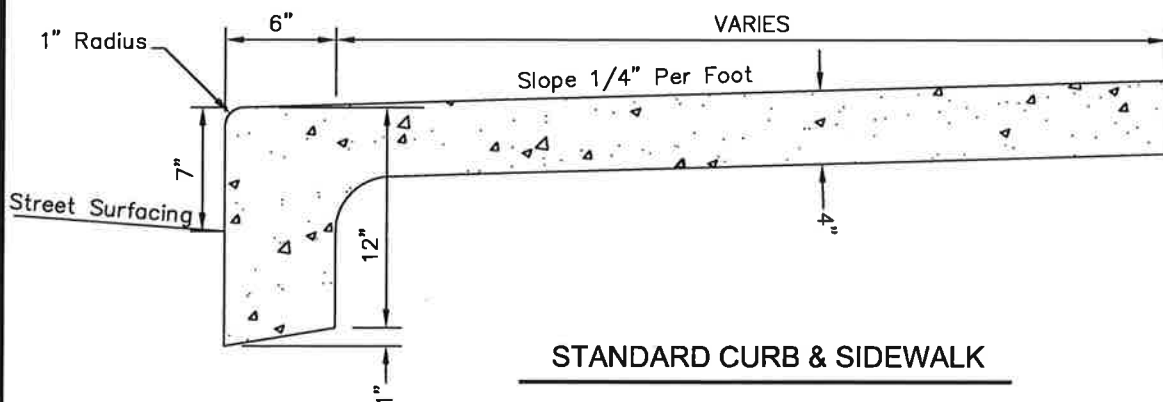
CONCRETE VALLEY GUTTER

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



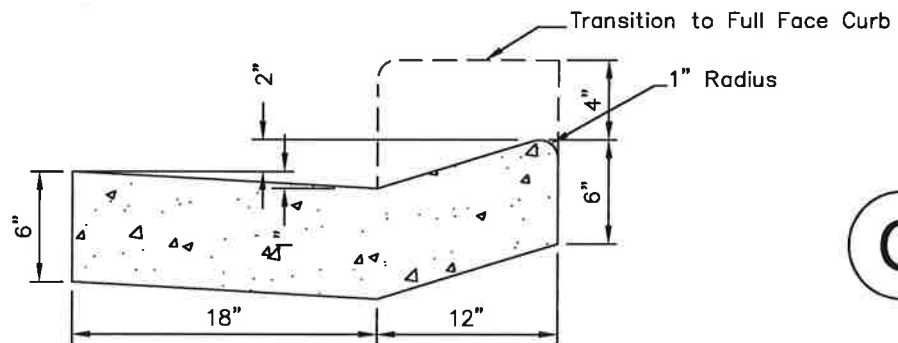
A

STANDARD CURB & SIDEWALK IN DRIVEWAYS



B

STANDARD CURB & SIDEWALK



C

STANDARD MOUNTABLE CURB & GUTTER

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED
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UTILITY AND ROADWAY CONSTRUCTION" MANUAL
LATEST REVISION.

REVISED: 04/03/17

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SALISBURY, MD

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1/2/18

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Amanda Pollack
CITY ENGINEER

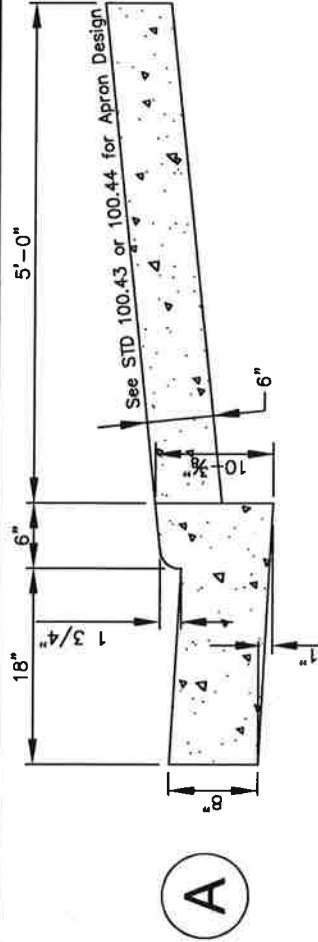
STANDARD DETAILS

DATE 5/22/78

SCALE NONE

DWG. NO. STD10020

STD. NO. 100.20

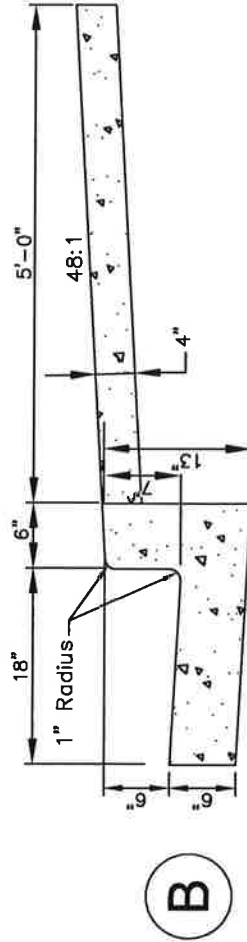


STANDARD CURB & GUTTER AND SIDEWALK IN DRIVEWAYS

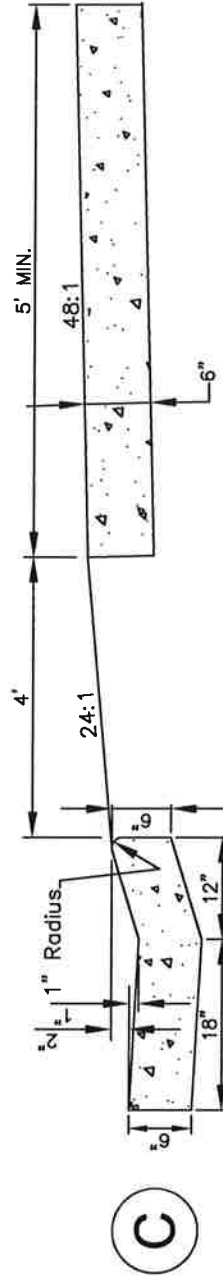
CONCRETE WORKMANSHIP

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.

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



STANDARD CURB & GUTTER AND SIDEWALK



MOUNTABLE CURB & GUTTER, GRASS PLOT AND SIDEWALK

DATE	1/09/53
SCALE	NONE
DWG NO.	STD10025
STD. NO	100.25

STANDARD DETAILS FOR
CURB & GUTTER AND
SIDEWALK CONSTRUCTION

APPROVED

1/2/18

DATE

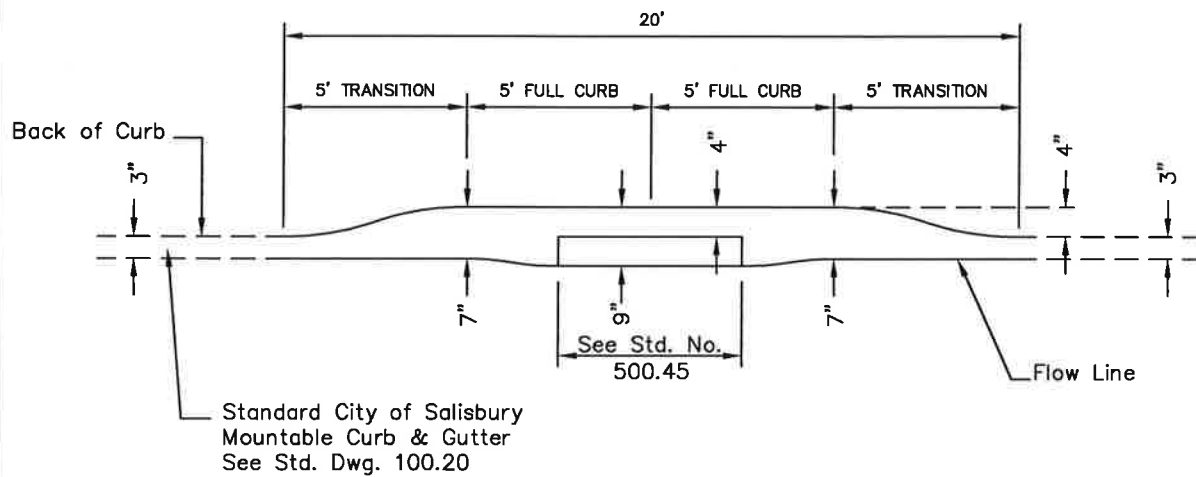
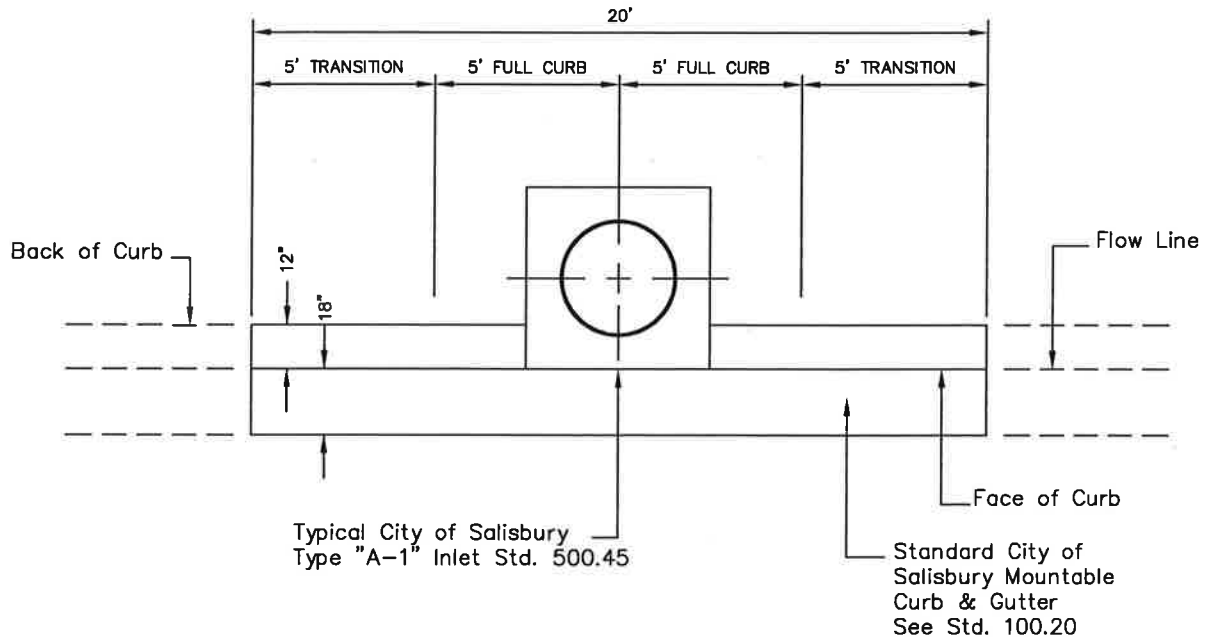
Amanda Pollack

CITY ENGINEER

CITY OF SALISBURY

SALISBURY, MD

TOP VIEW



FRONT VIEW

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL
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SPECIFICATION FOR UTILITY AND ROADWAY
CONSTRUCTION" MANUAL LATEST REVISION

CITY OF
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SALISBURY, MD

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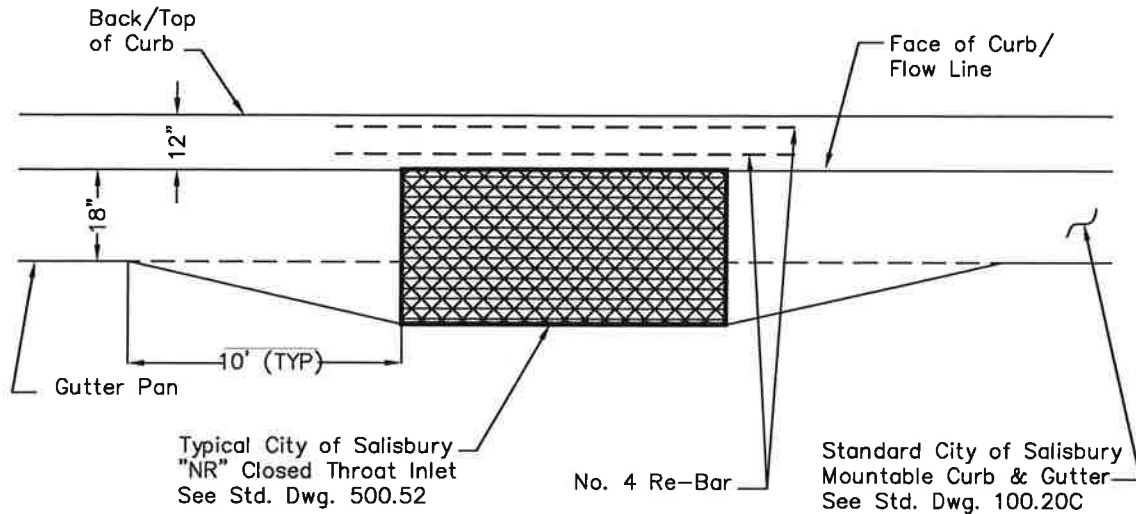
TYPICAL MOUNTABLE
CURB INLET DETAIL
IN LOW POINT OF STREET

DATE 8/18/77

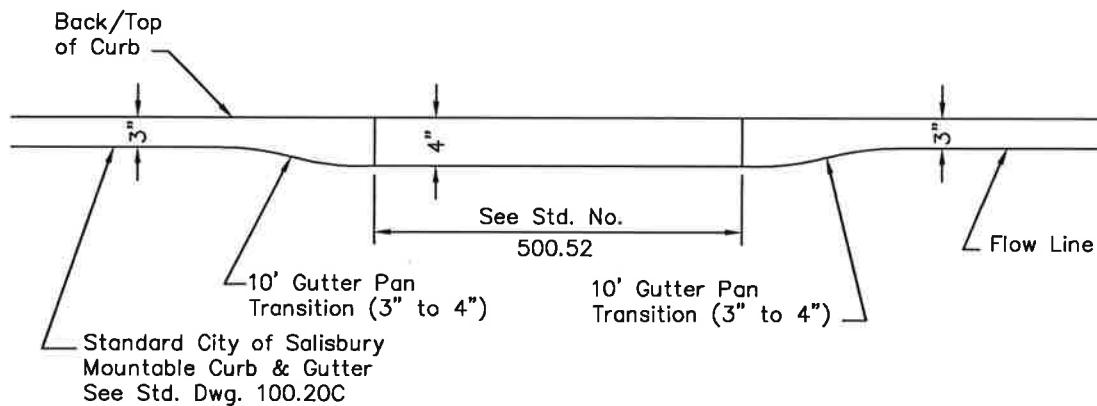
SCALE NONE

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

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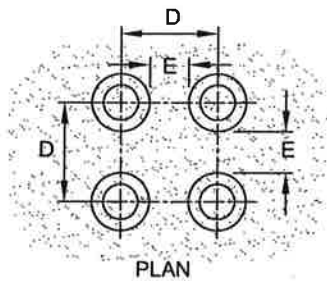
TYPICAL MOUNTABLE
CURB DETAIL USING "NR"
CLOSED-THROAT INLET

DATE 7/12/90

SCALE NONE

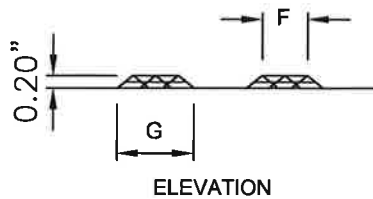
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STD. NO. 100.35



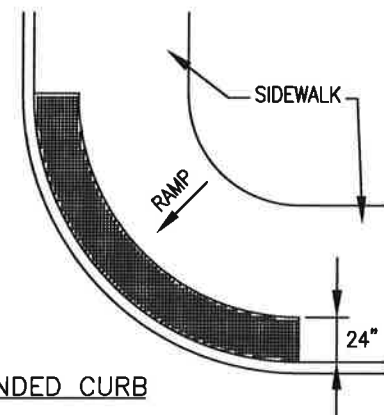
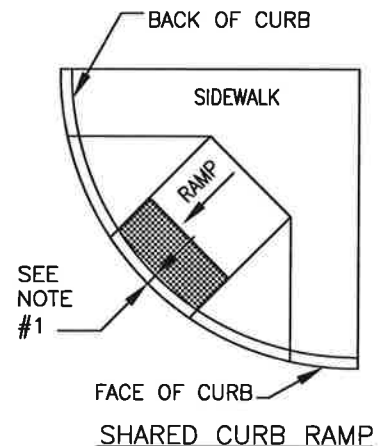
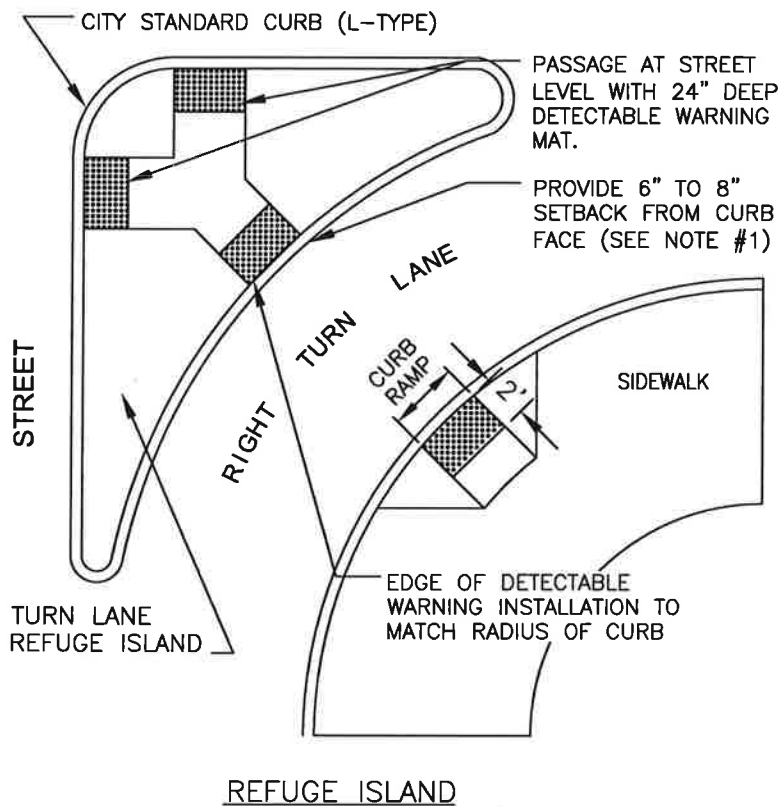
MAT DETAILS

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



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
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1/2/18

DATE

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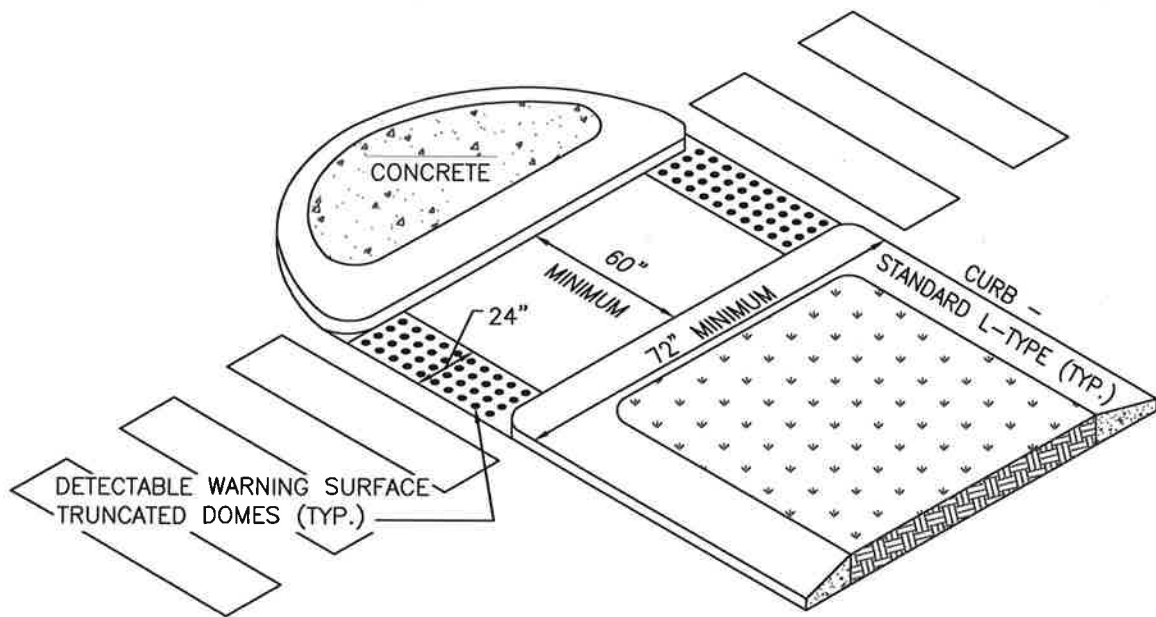
DETECTABLE WARNING GUIDELINES & DETAILS

DATE 05/27/04

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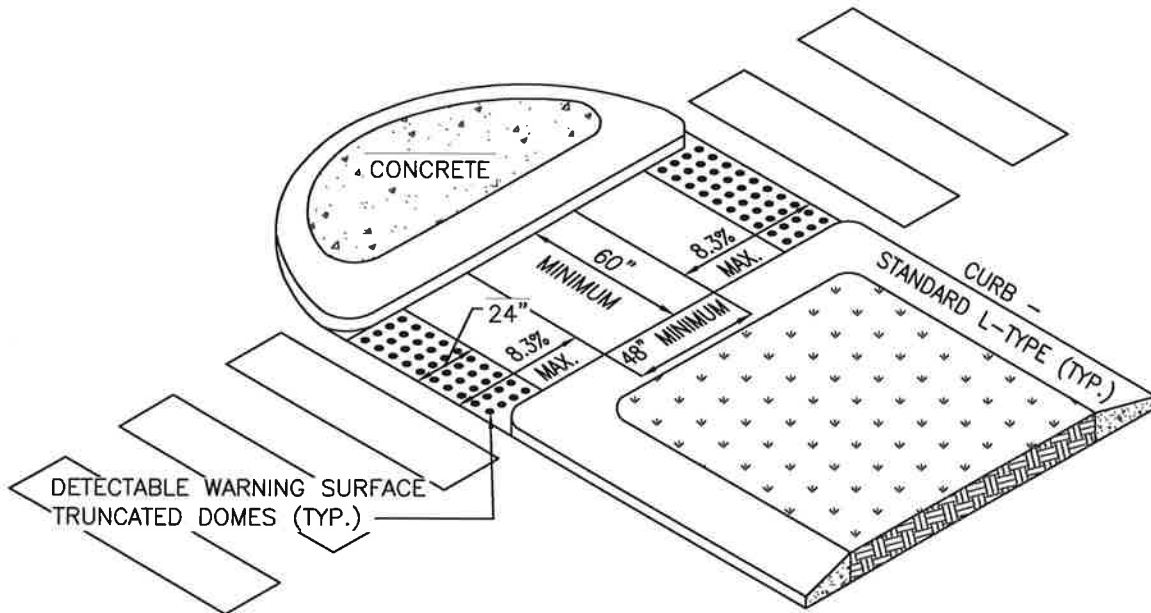
DWG. NO. STD10037

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
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CITY ENGINEER

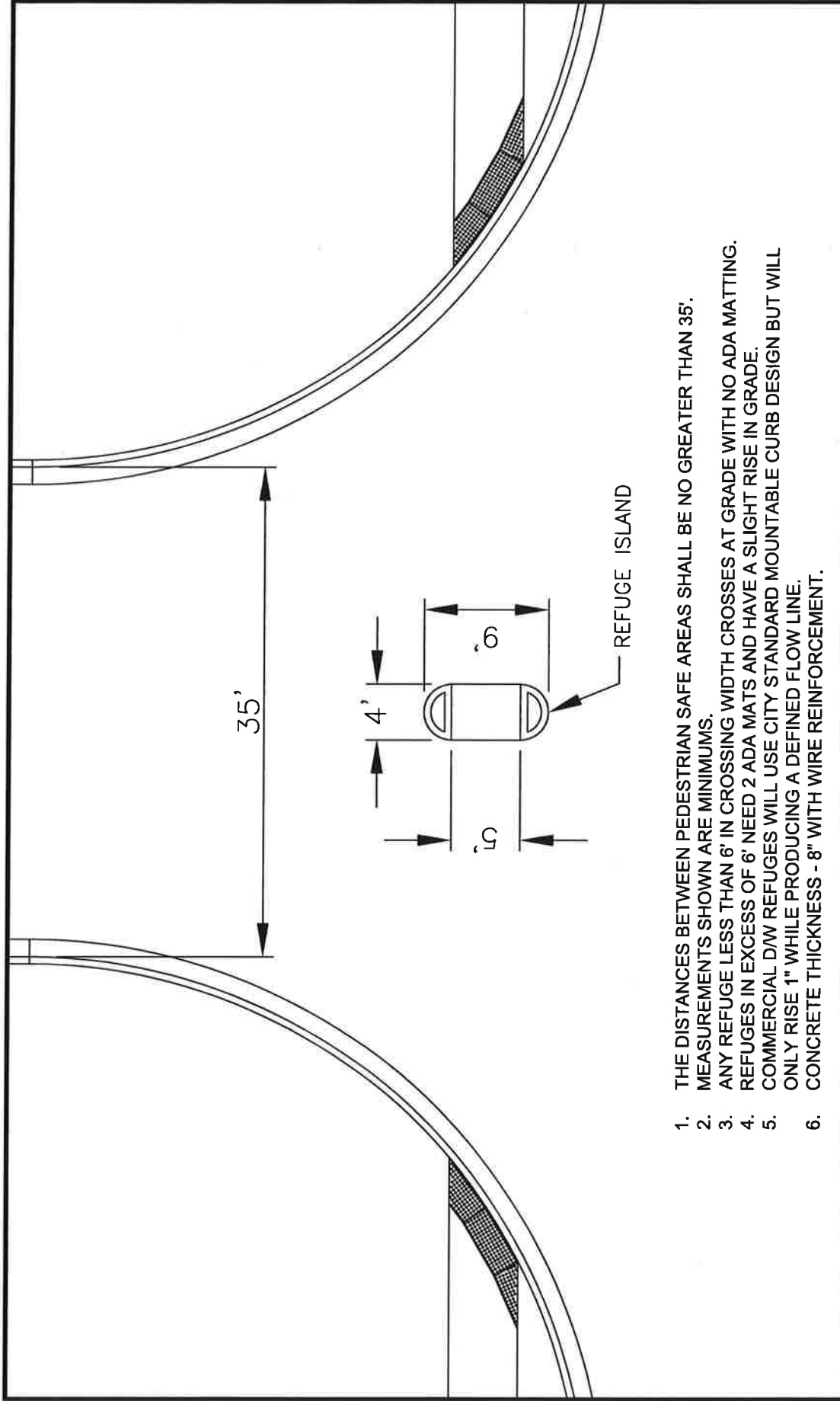
PEDESTRIAN REFUGE
ISLAND IN CITY STREETS

DATE 04/03/17

SCALE NONE

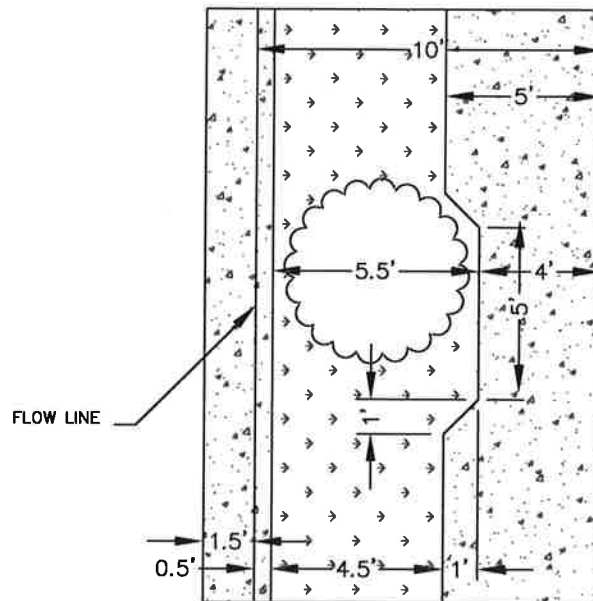
DWG. NO. STD10038

STD. NO. 100.38

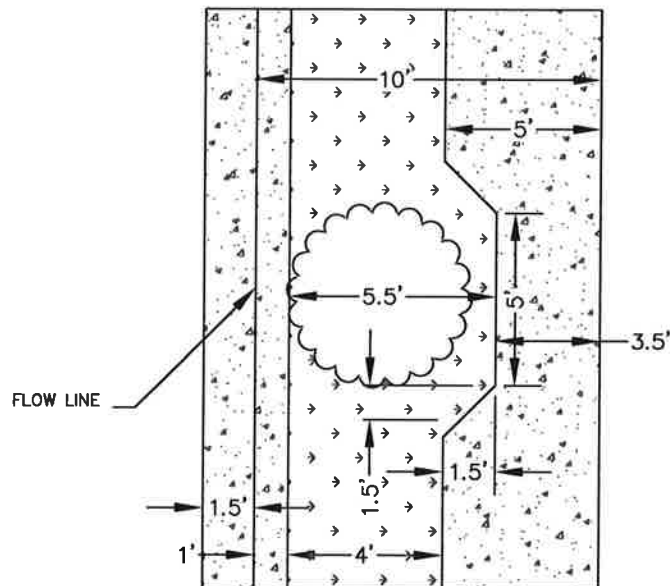


1. THE DISTANCES BETWEEN PEDESTRIAN SAFE AREAS SHALL BE NO GREATER THAN 35'.
2. MEASUREMENTS SHOWN ARE MINIMUMS.
3. ANY REFUGE LESS THAN 6' IN CROSSING WIDTH CROSSES AT GRADE WITH NO ADA MATTING.
4. REFUGES IN EXCESS OF 6' NEED 2 ADA MATS AND HAVE A SLIGHT RISE IN GRADE.
5. COMMERCIAL D/W REFUGES WILL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

DATE	04/03/17
SCALE	N.T.S.
DWG NO.	STD10039
STD. NO	100.39
<p style="text-align: center;">PEDESTRIAN REFUGE ISLAND IN COMMERCIAL DRIVEWAY LARGER THAN 35'</p>	
<p>APPROVED 1/2/18 DATE <i>Amanda Pollack</i> CITY ENGINEER</p>	
<p>CITY OF SALISBURY SALISBURY, MD</p>	



VERTICAL CURBING



MOUNTABLE CURBING

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

DATE

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CITY ENGINEER

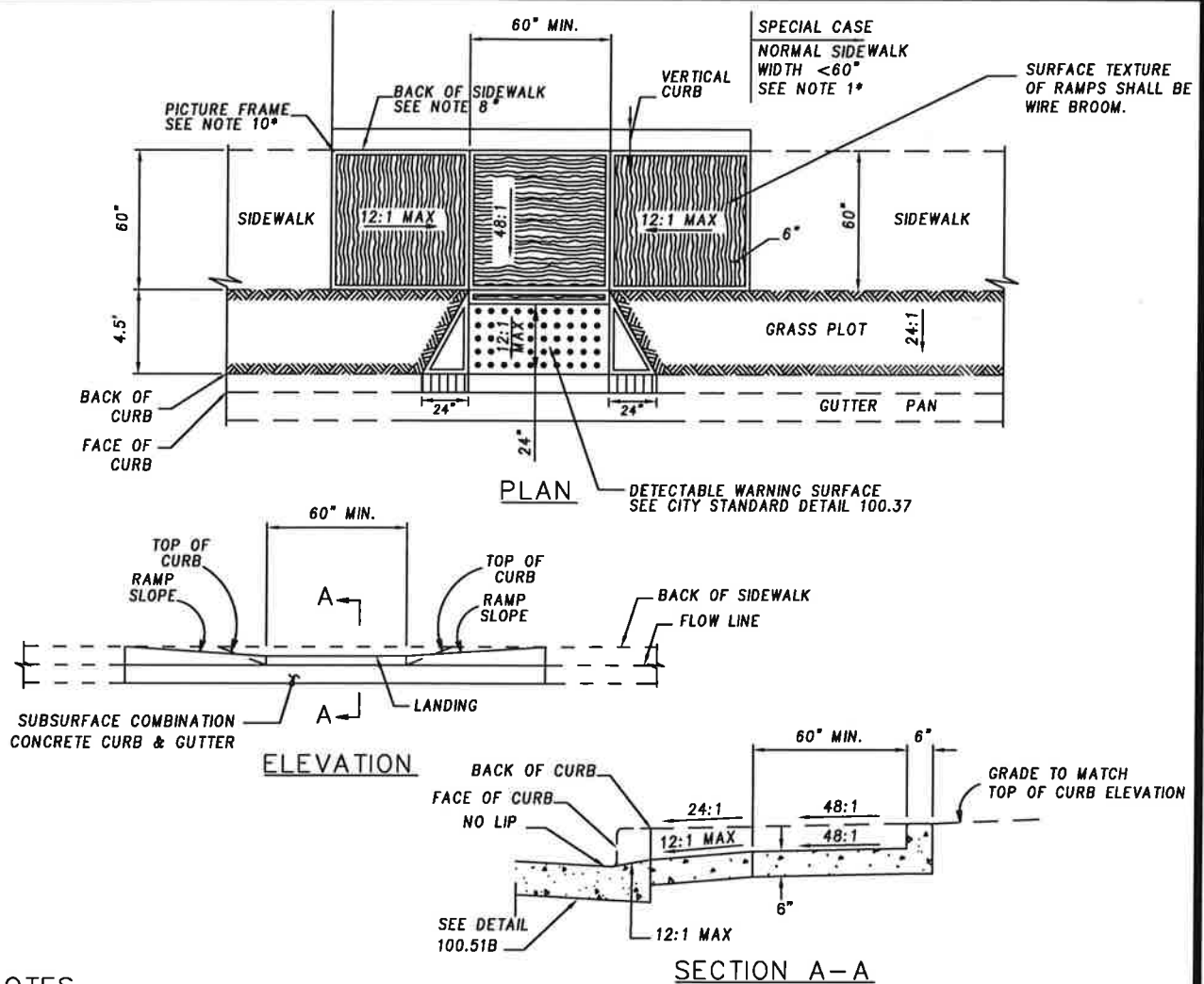
LANDSCAPING STANDARD
GRASSPLOT WITH TREE
PLAN VIEW

DATE 2/28/06

SCALE NONE

DWG. NO. STD10040

STD. NO. 100.40



NOTES

- 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.
- 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.
- EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
- 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.
- THE GRASS PLOT SHALL BE DESIGNED TO BE 4.5' UNLESS OTHERWISE APPROVED.
- ALL RAMPS & LANDINGS WILL BE A MINIMUM OF 6" THICK.
- 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).
- ALL SIDEWALK RAMP DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
- 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.
- ALL SIDEWALK, RAMPS AND LANDINGS WILL BE PICTURE FRAMED 1½" TO 2".
- 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

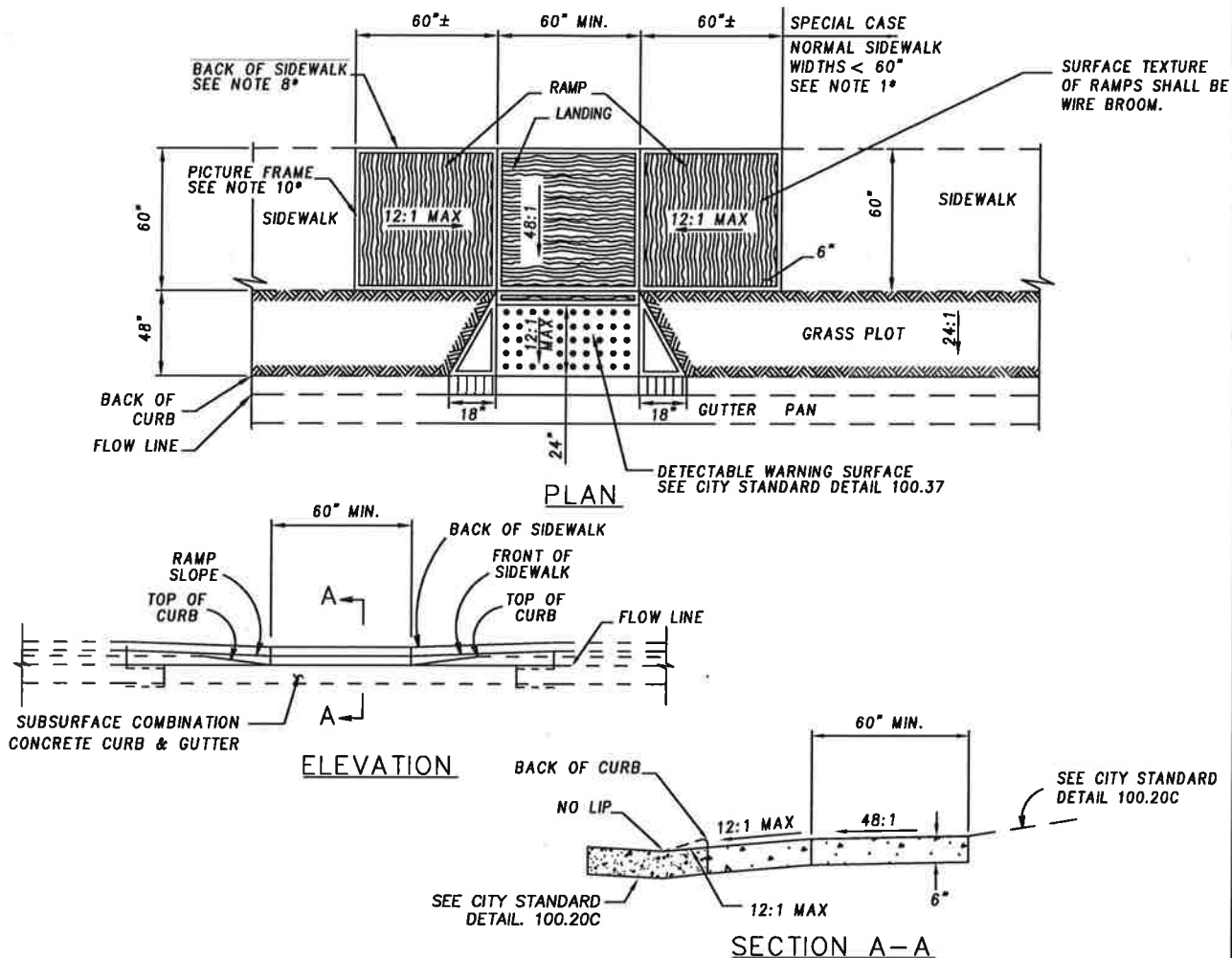
VERTICAL CURB & GRASS PLOT SIDEWALK RAMPS

DATE 5/30/12

SCALE N.T.S.

DWG. NO. STD10041

STD. NO. 100.41



CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Pollack
CITY ENGINEER

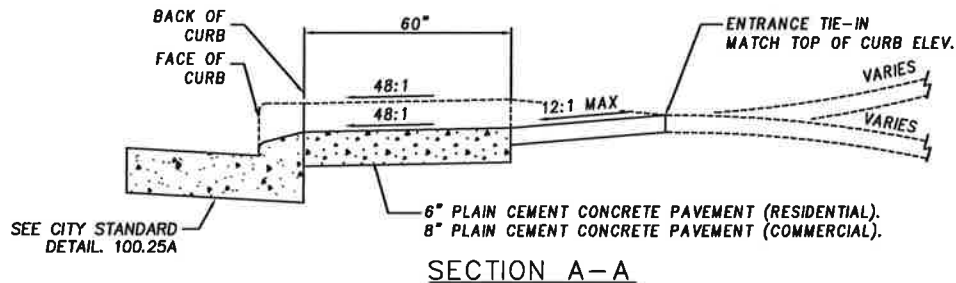
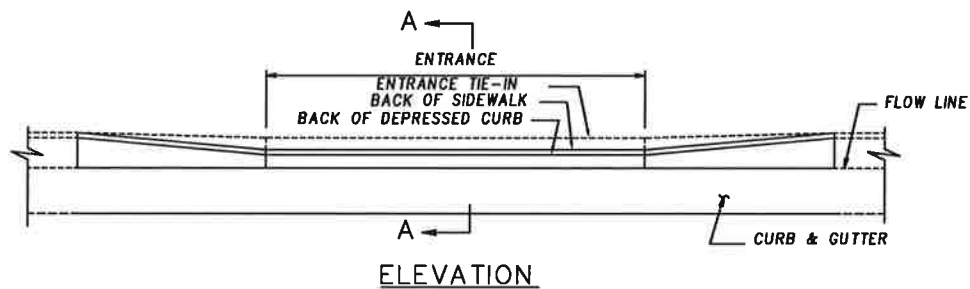
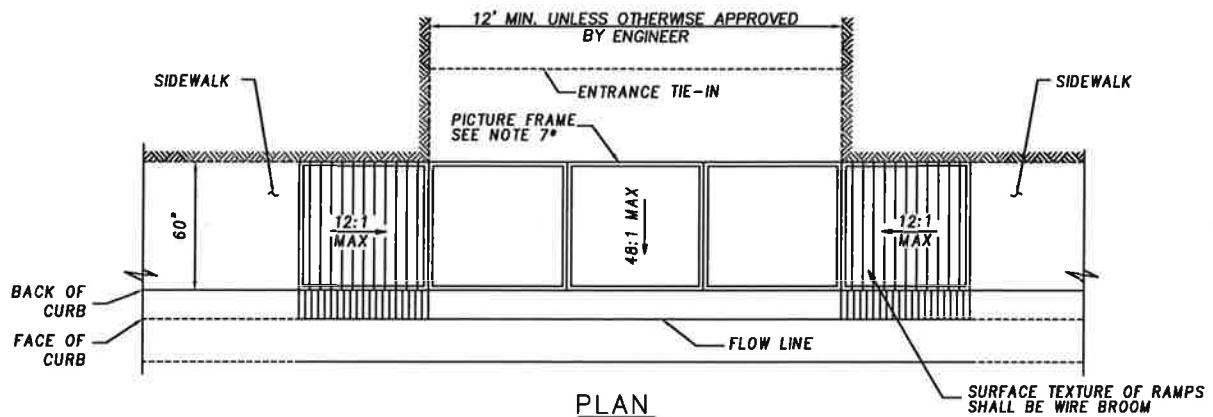
MOUNTABLE CURB SIDEWALK RAMPS

DATE 5/30/12

SCALE N.T.S.

DWG. NO. STD10042

STD. NO. 100.42



NOTES

- 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.
- 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.
- EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
- 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).
- ALL SIDEWALK DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
- 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.
- THE SIDEWALK WILL BE PICTURE FRAMED 1½" TO 2".

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Pollack
CITY ENGINEER

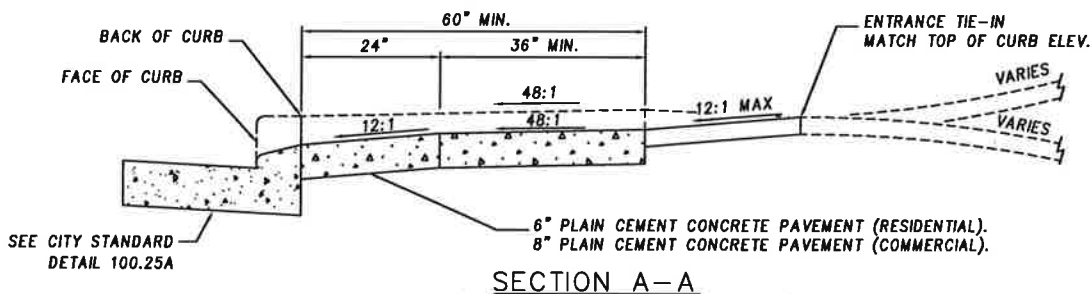
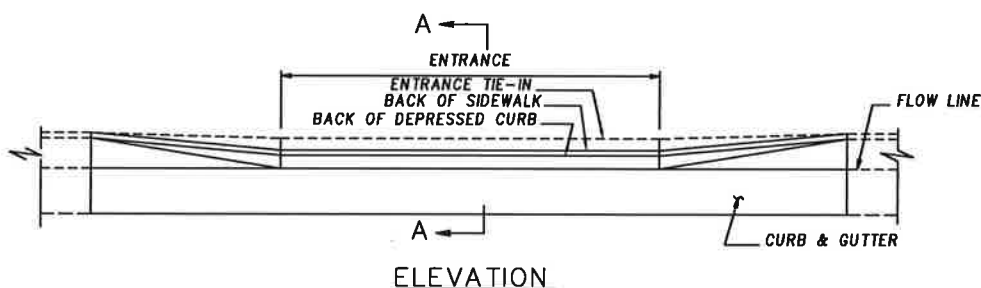
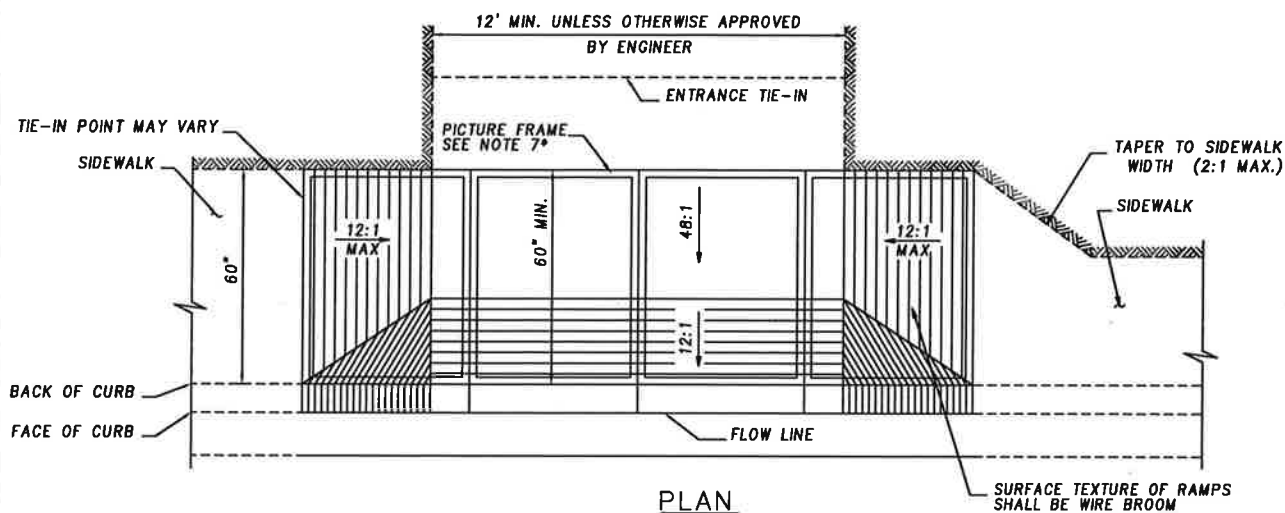
CURBSIDE SIDEWALK
STANDARD ENTRANCE
RESIDENTIAL & COMMERCIAL
METHOD NO. 2

DATE 5/30/12

SCALE N.T.S.

DWG. NO. STD10043

STD. NO. 100.43



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

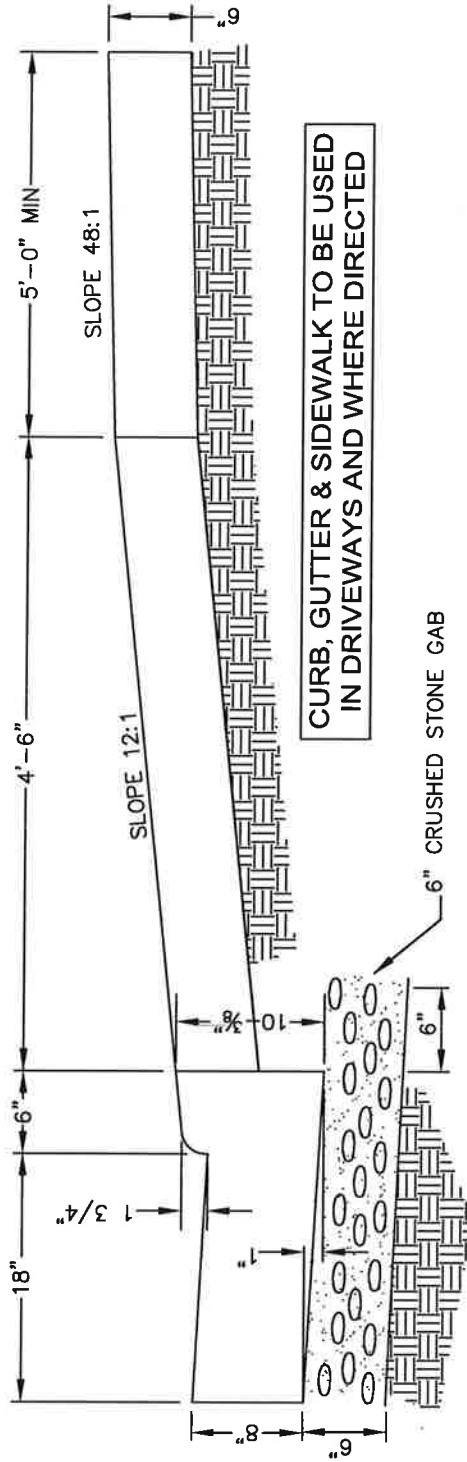
DATE 5/30/12

SCALE N.T.S.

DWG. NO. STD10044

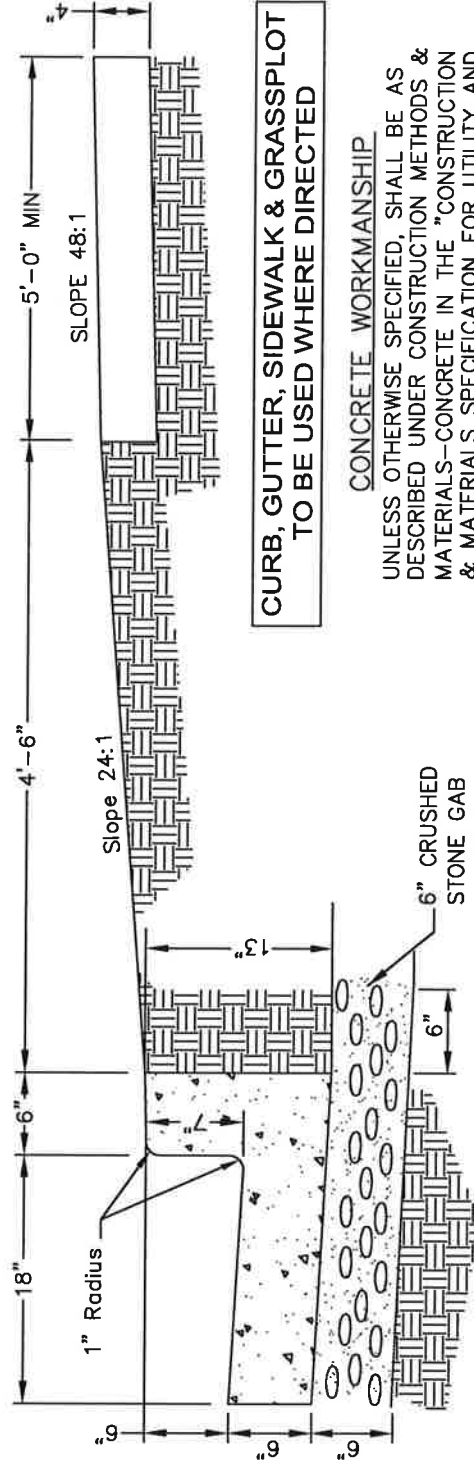
STD. NO. 100.44

STD. NO. 100.50



A

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



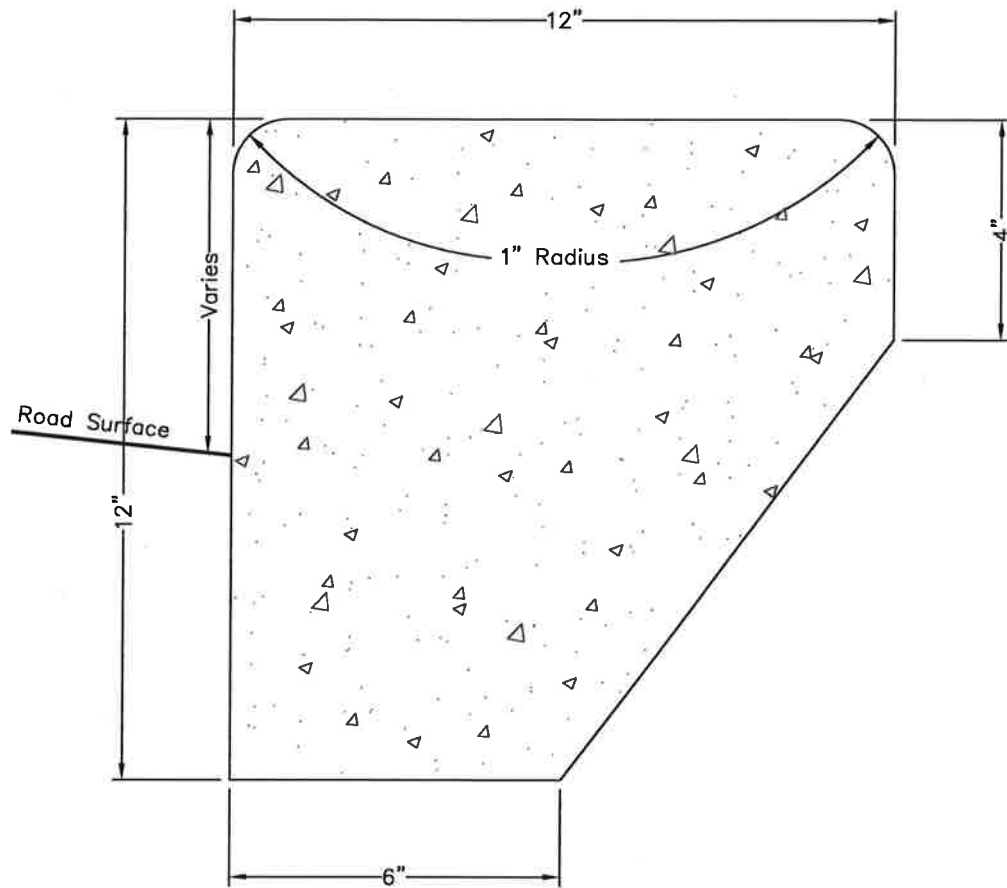
B

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 4/6/92
	CITY ENGINEER <i>Amada Belack</i>		SCALE NONE
			DWG NO. STD10051
			STD. NO. 100.51

STANDARD DETAILS FOR CURB, GUTTER, & SIDEWALK WITH GRASSPLOT OR DRIVEWAY



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

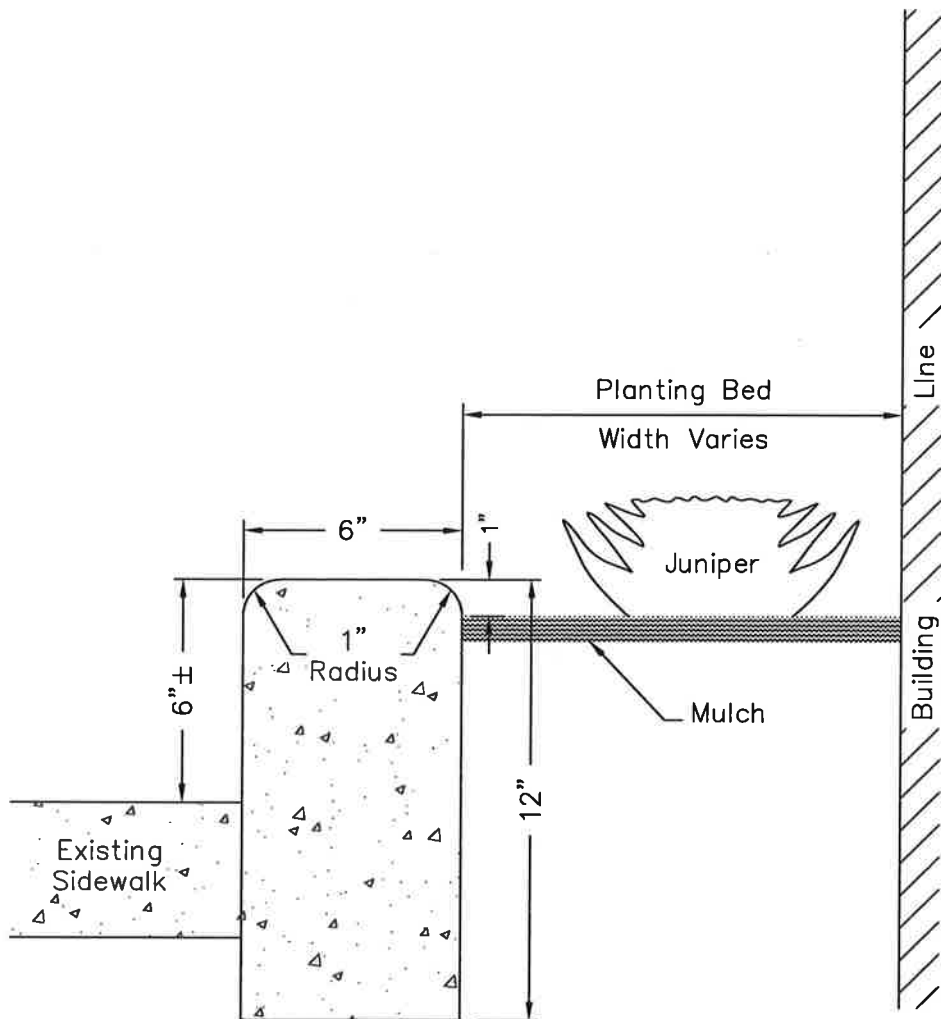
STANDARD DETAIL FOR TYPE A LANDSCAPING CURB

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

Amanda Pollack DATE
CITY ENGINEER

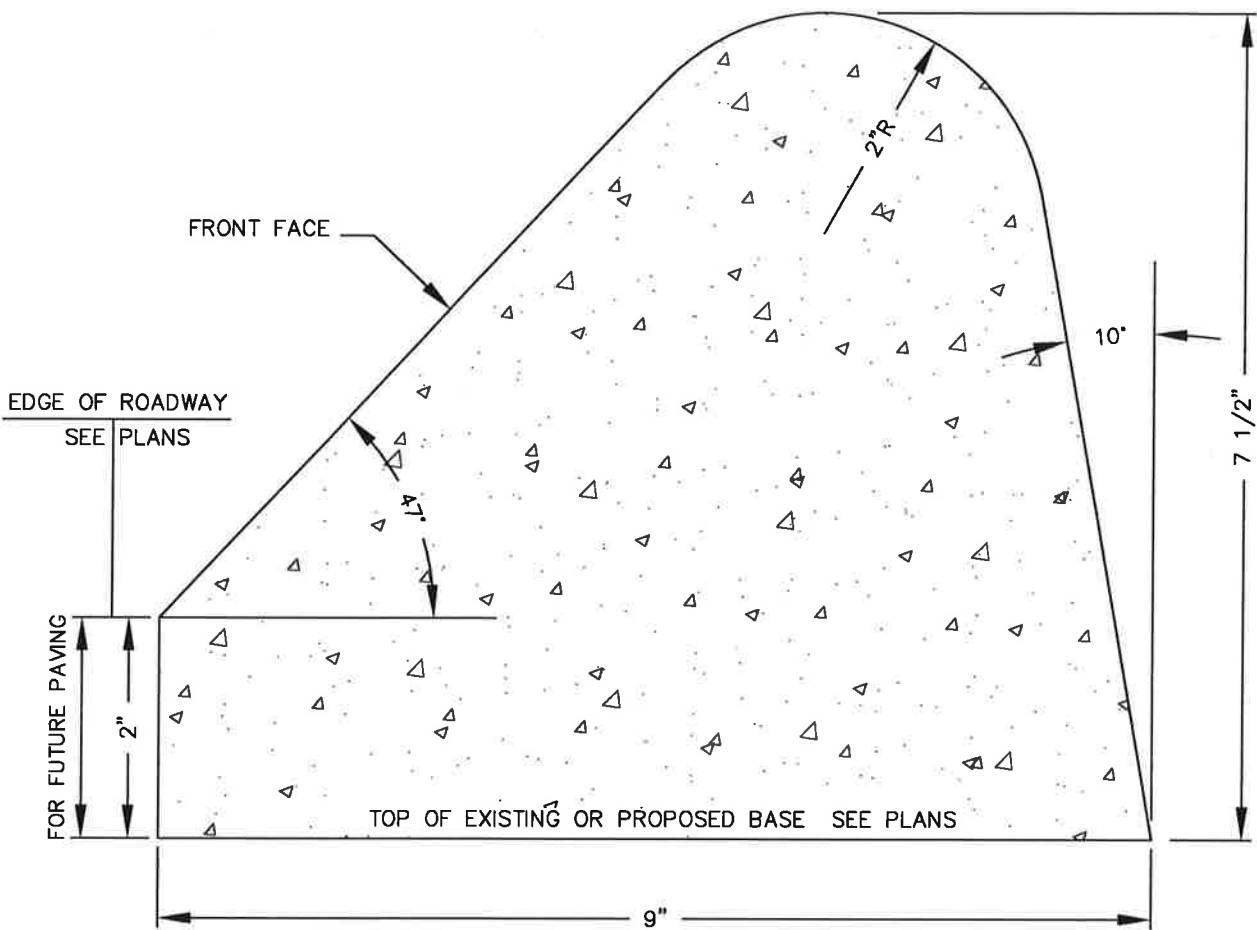
STANDARD DETAIL FOR PLANTER CURB

DATE 2/3/83

SCALE NONE

DWG. NO. STD10053

STD. NO. 100.53



CITY OF
SALISBURY
SALISBURY, MD

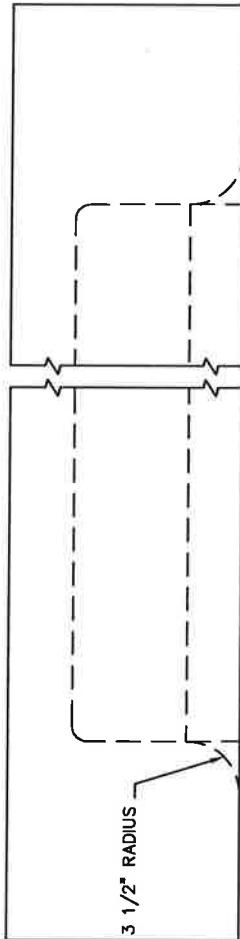
APPROVED
1/2/18
Amanda Pollack
CITY ENGINEER

STANDARD BITUMINOUS
CONCRETE CURB

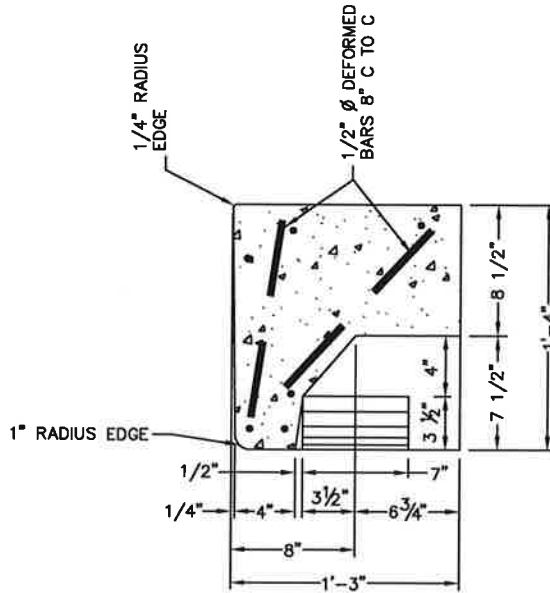
DATE	3/10/87
SCALE	NONE
DWG. NO.	STD10054
STD. NO.	100.54

CONCRETE WORKMANSHIP

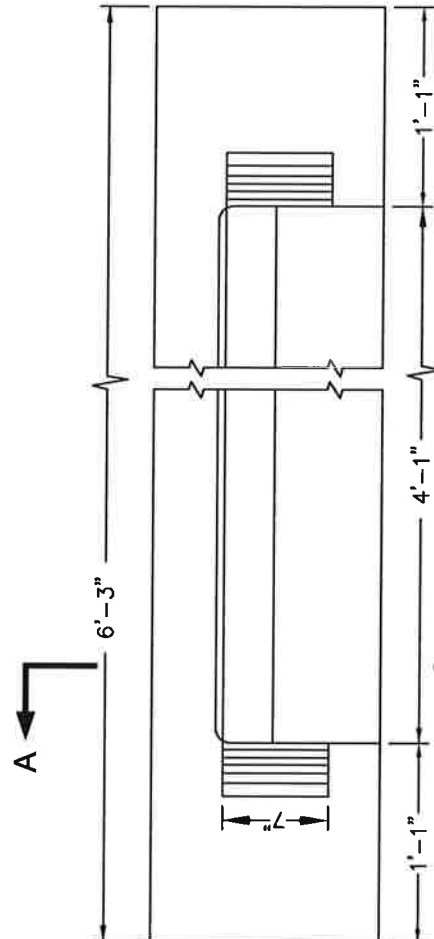
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.



PLAN



SECTION A-A



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

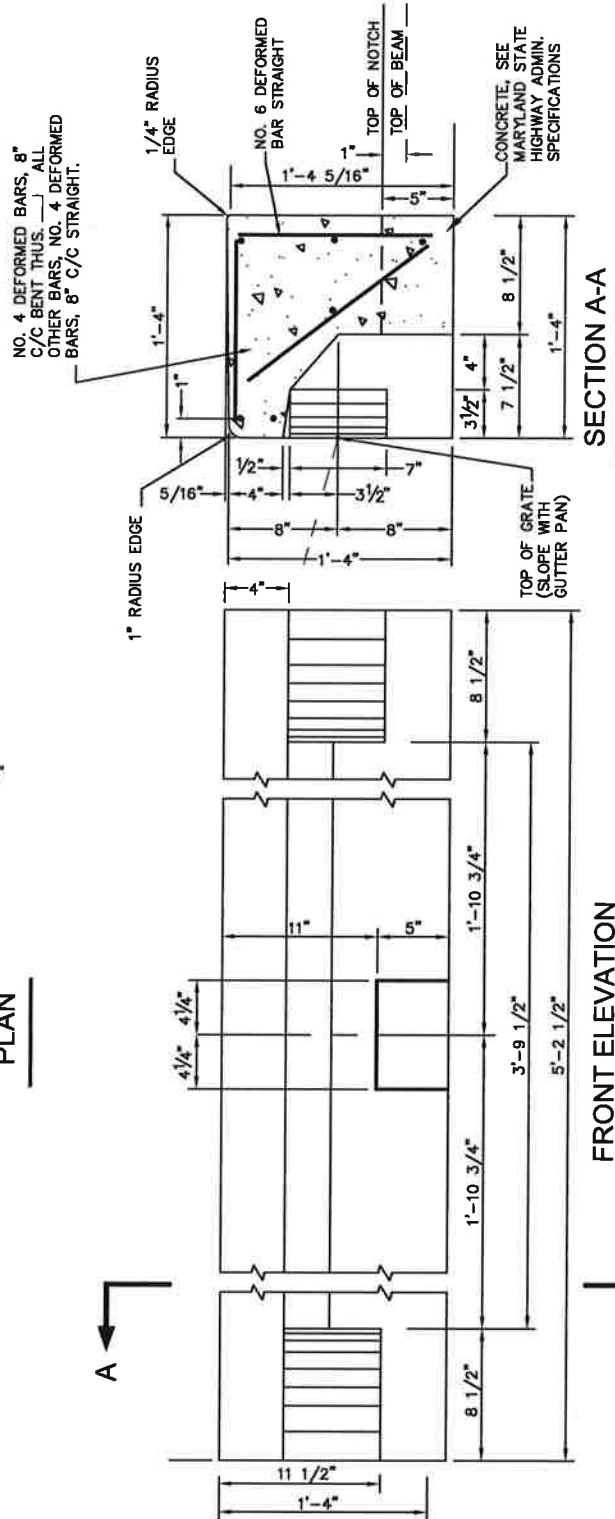
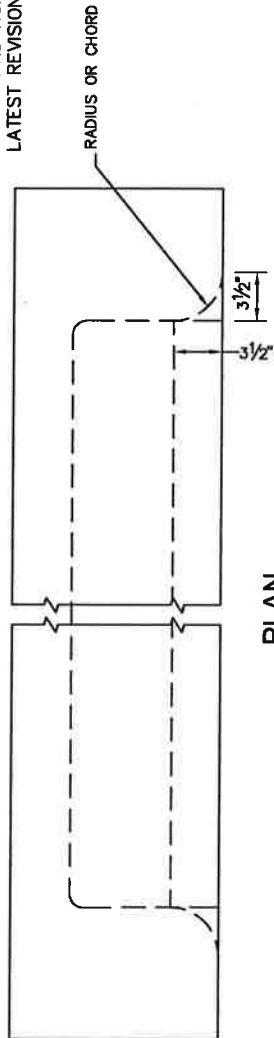
SCALE NONE

DWG. NO. STD10055

STD. NO. 100.55

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

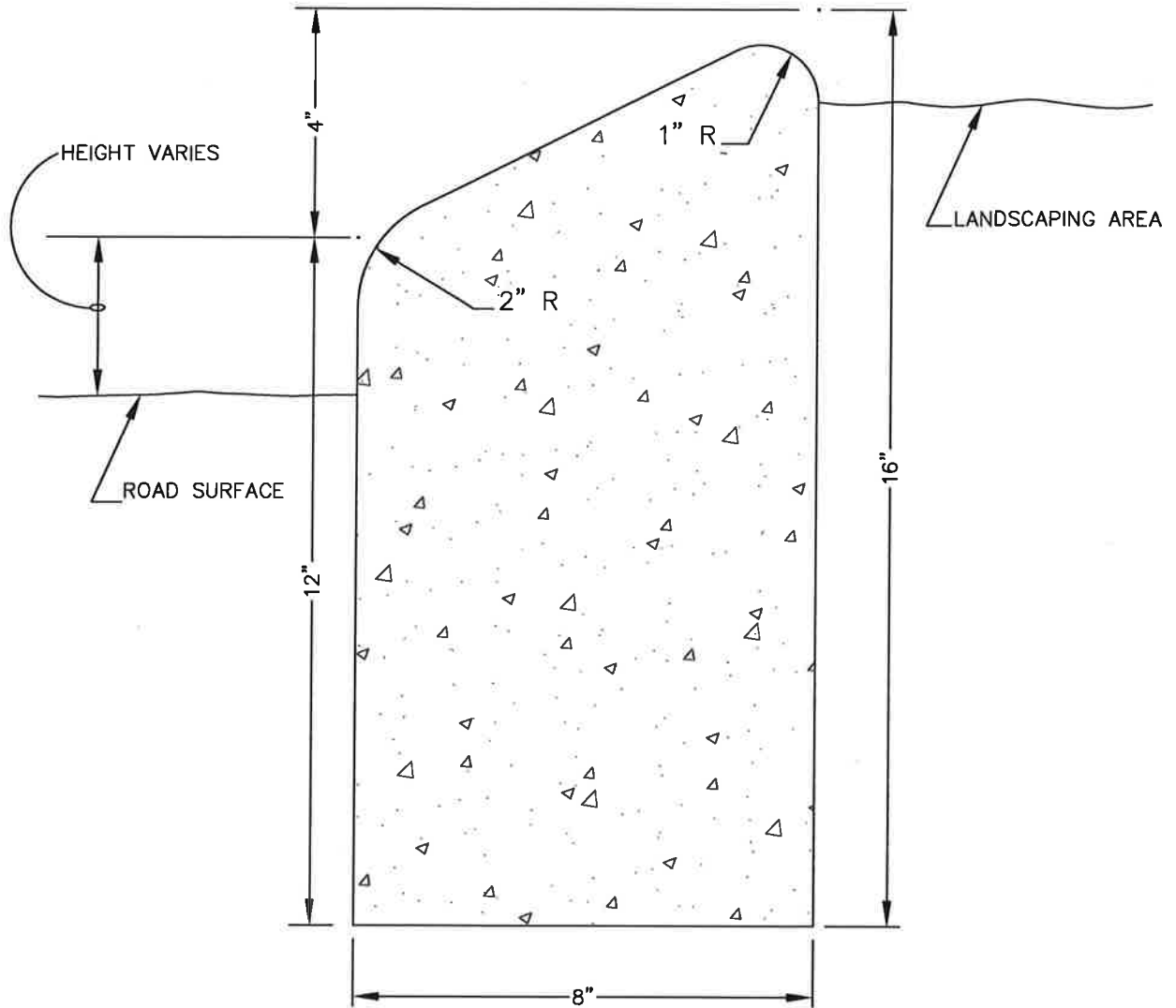
SPECIAL CURB
CLASS "NR" OPEN
THROAT INLET

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.

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

Amanda Bellack
CITY ENGINEER

DATE

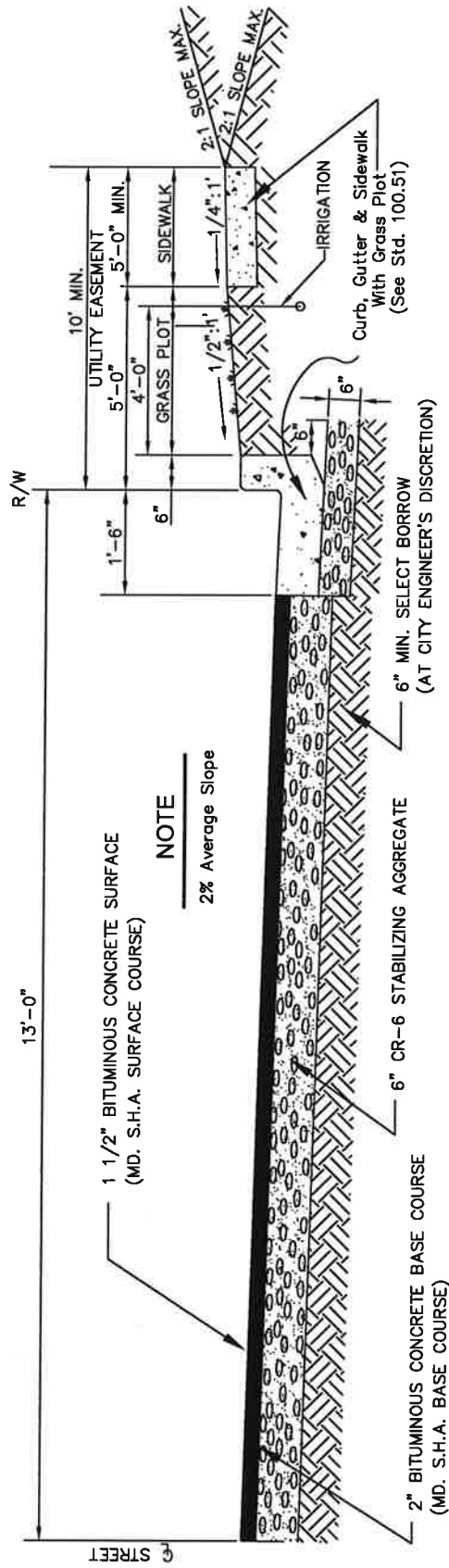
TRAFFIC ISLAND SAFETY CURB

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.

CITY OF SALISBURY

SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Bellack

CITY ENGINEER

TYPICAL SECTION

TYPICAL 26' LOCAL STREET

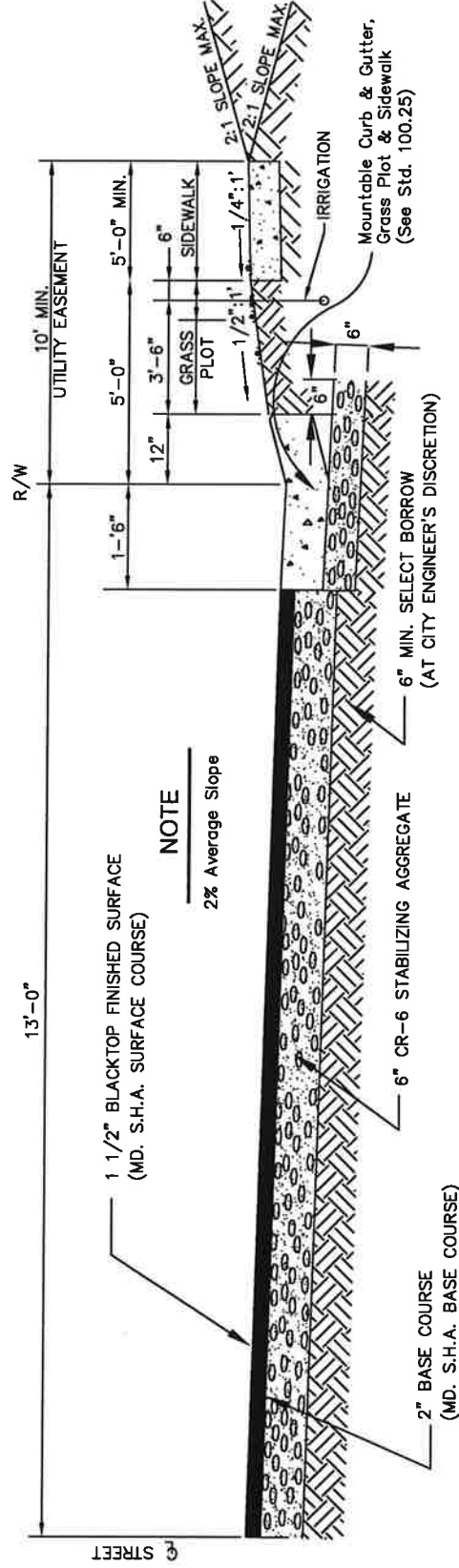
WITH STANDARD CURB & GUTTER

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.
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. IRRIGATION WITHIN CITY EASEMENTS SHALL BE 3'6" TO CENTERLINE FROM BACK OF CURB.

CITY OF SALISBURY

SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Pollack
CITY ENGINEER

TYPICAL SECTION

TYPICAL 26' LOCAL STREET

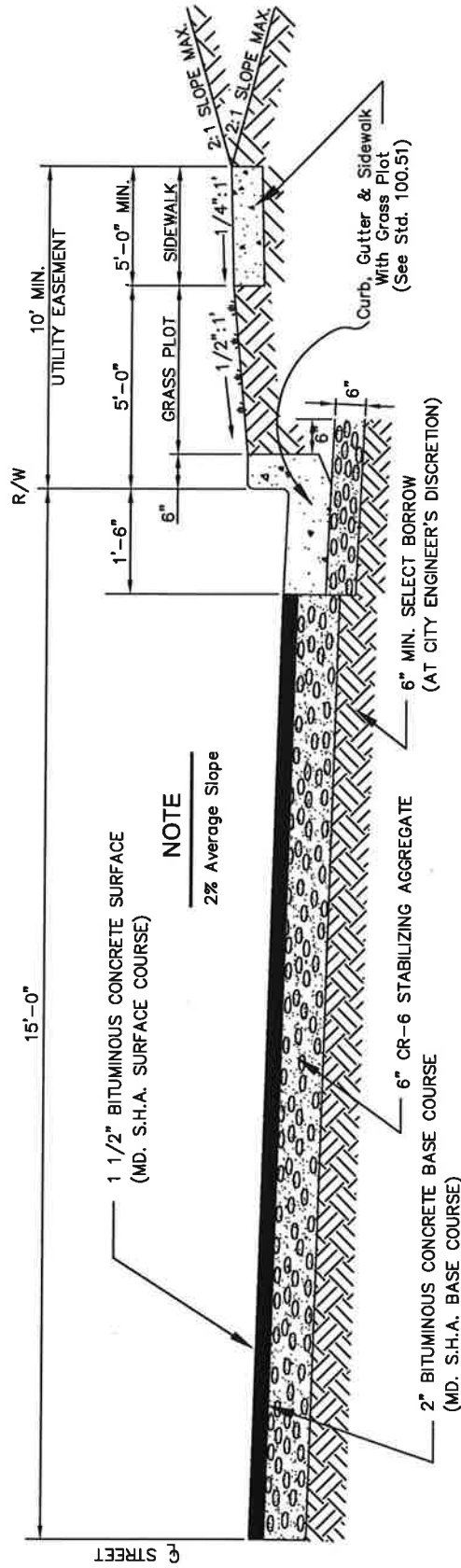
WITH MOUNTABLE CURB & GUTTER

DATE 3/23/92

SCALE NONE

DWG NO. STD20013

STD. NO 200.13



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.

CITY OF SALISBURY

SALISBURY, MD

APPROVED

1/24/18

DATE

Amanda Pellack

CITY ENGINEER

TYPICAL SECTION

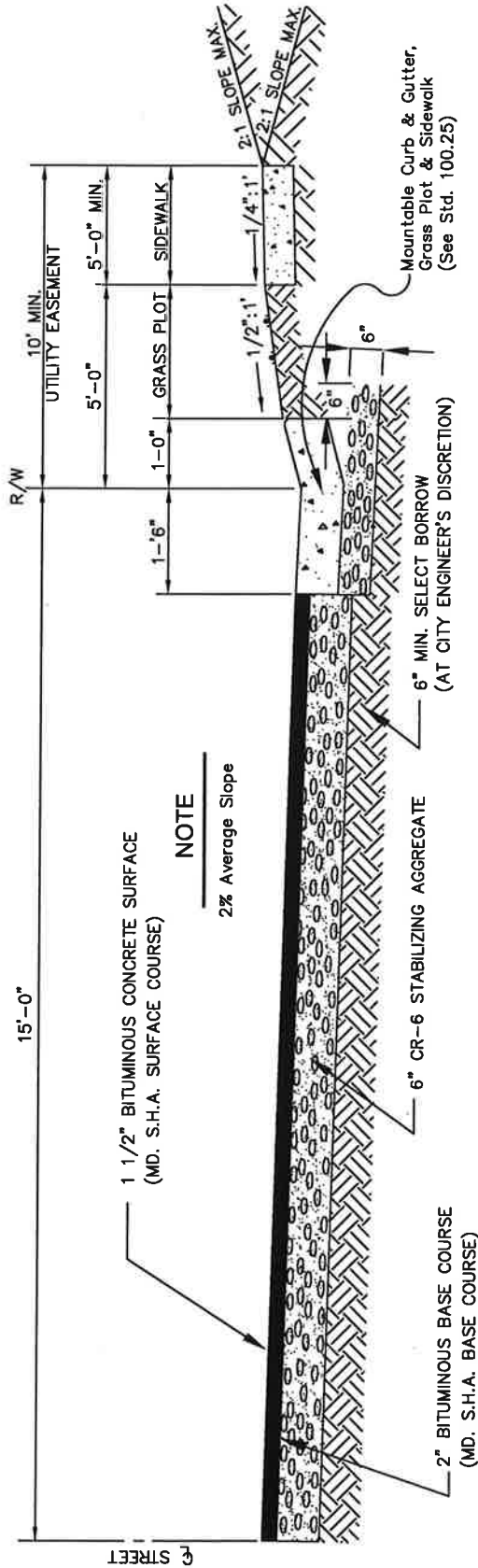
TYPICAL 30' MINOR COLLECTOR STREET
WITH STANDARD CURB & GUTTER

DATE 3/23/92

SCALE NONE

DWG NO. STD20021

STD. NO 200.21



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.

CITY OF SALISBURY

SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Pollack
CITY ENGINEER

TYPICAL SECTION

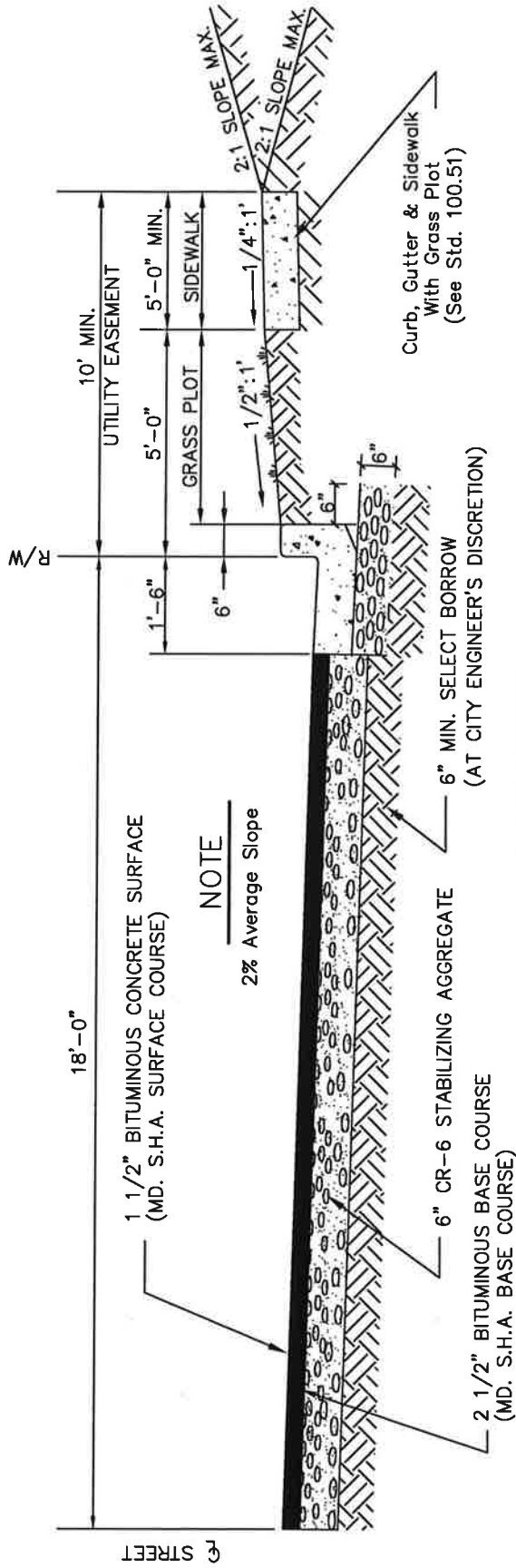
TYPICAL 30' MINOR COLLECTOR STREET
WITH MOUNTABLE CURB & GUTTER

DATE 3/23/92

SCALE NONE

DWG NO. STD20023

STD. NO 200.23



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.

APPROVED

1/2/18

DATE

Amanda Pollack

CITY ENGINEER

CITY OF SALISBURY

SALISBURY, MD

TYPICAL SECTION

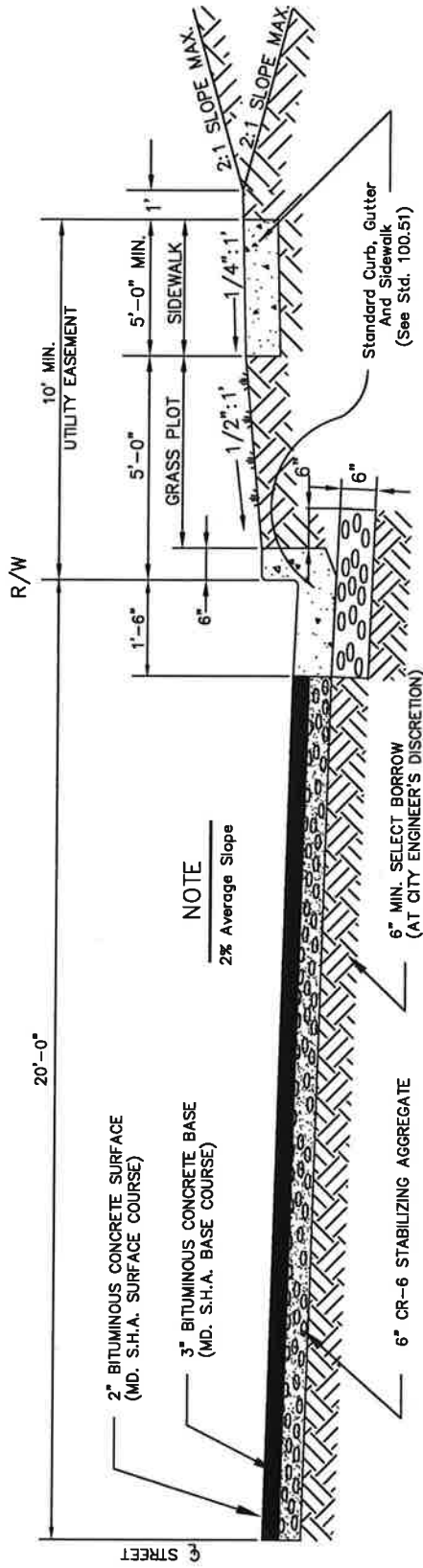
TYPICAL 36' MAJOR COLLECTOR STREET
WITH STANDARD CURB & GUTTER

DATE 3/23/92

SCALE NONE

DWG NO. STD20035

STD. NO 200.35



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

1/24/18

DATE

Ananda Pellack
CITY ENGINEER

TYPICAL SECTION

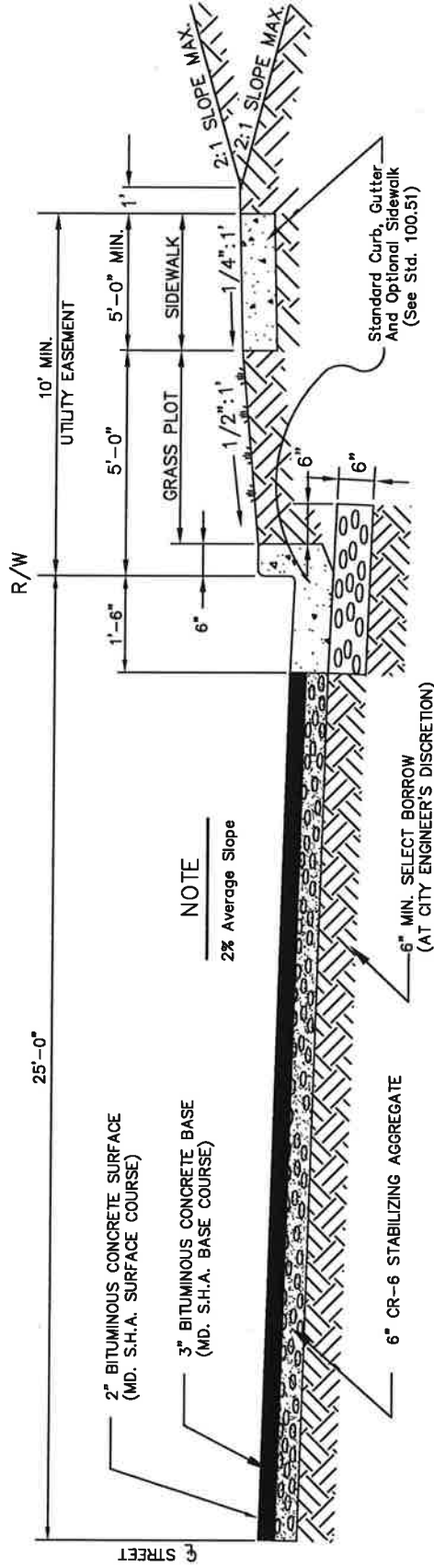
TYPICAL 40' MAJOR COLLECTOR STREET
WITH STANDARD CURB & GUTTER

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 Pellach
CITY ENGINEER

TYPICAL SECTION

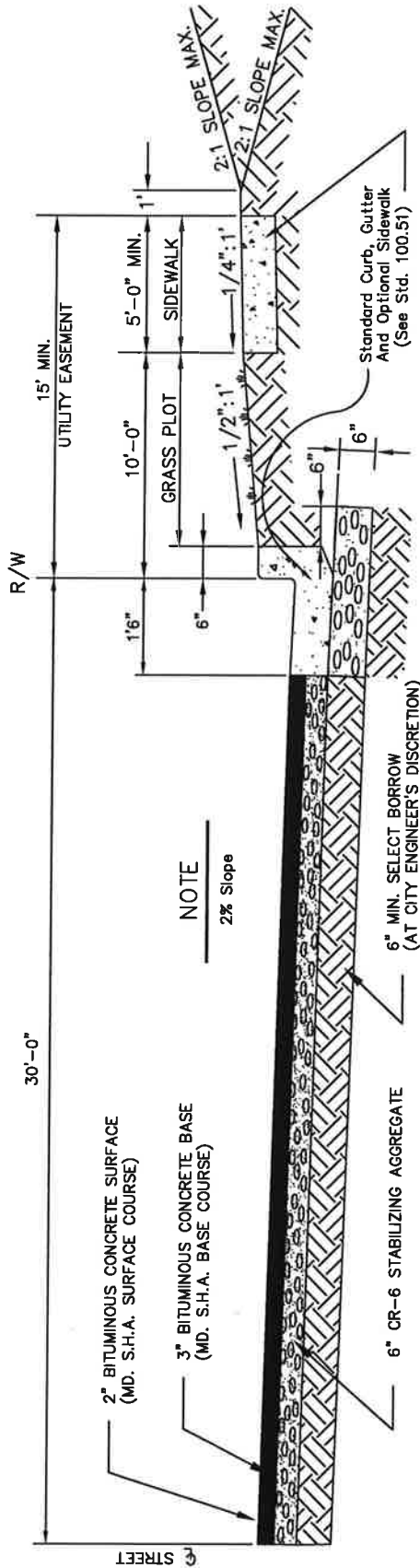
(INDUSTRIAL/COMMERCIAL)
50' MAJOR COLLECTOR STREET
WITH STANDARD CURB & GUTTER

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.

CITY OF SALISBURY

SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Pollack
CITY ENGINEER

TYPICAL SECTION

TYPICAL 60' ARTERIAL STREET
WITH STANDARD CURB & GUTTER

DATE 3/23/92

SCALE NONE

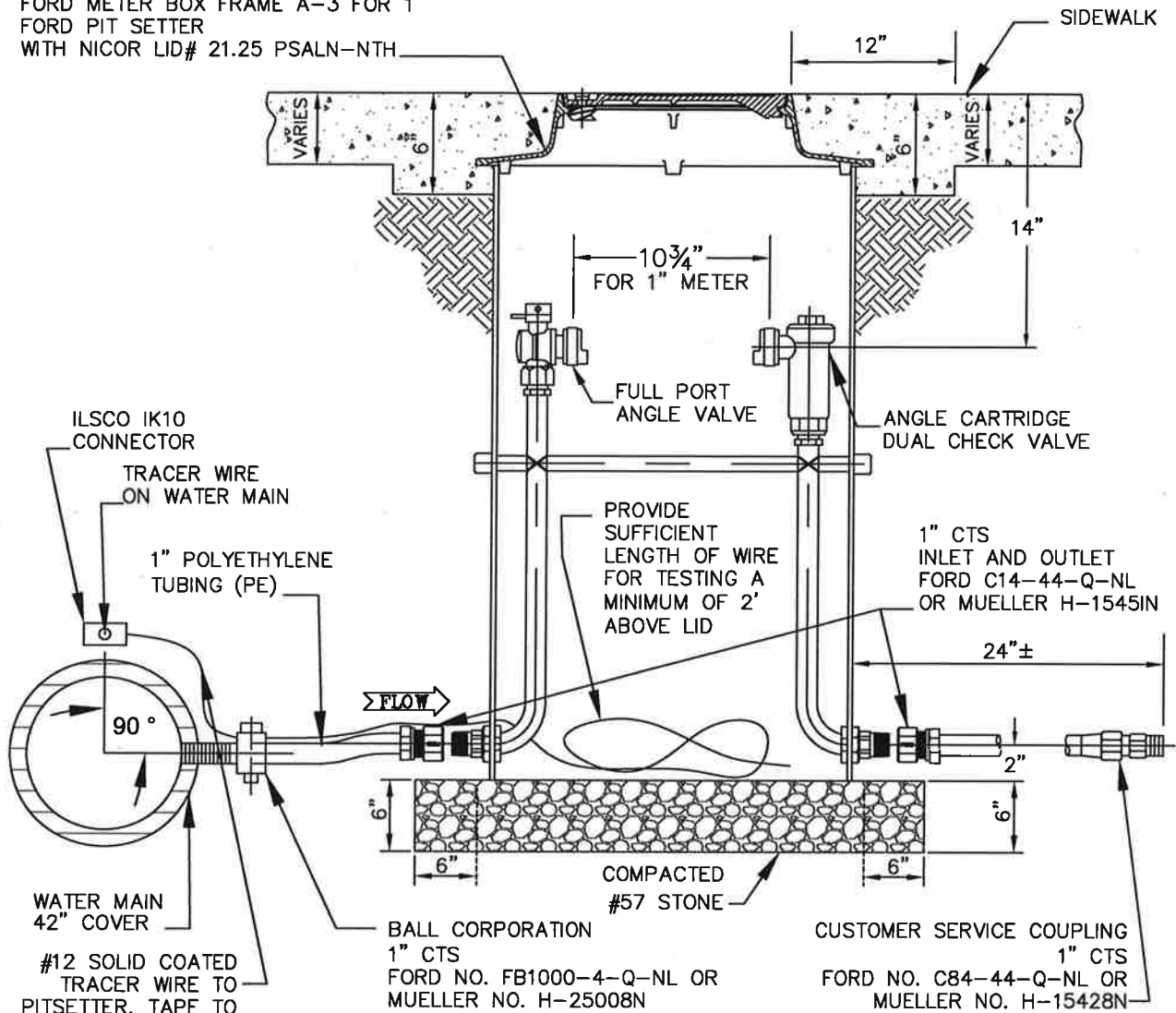
DWG NO. STD20061

STD. NO 200.61

- 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 UTILITY 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.

DATE	9/04/13
SCALE	NONE
DWG. NO.	STD20072
STD. NO.	200.72

SINGLE LID
 FORD METER BOX FRAME A-3 FOR 1"
 FORD PIT SETTER
 WITH NICOR LID# 21.25 PSALN-NTH



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 PIT SETTER—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 A WAY AS TO CREATE POSITIVE DRAINAGE.
8. SEE STD 300.15 FOR GUARD DETAIL.

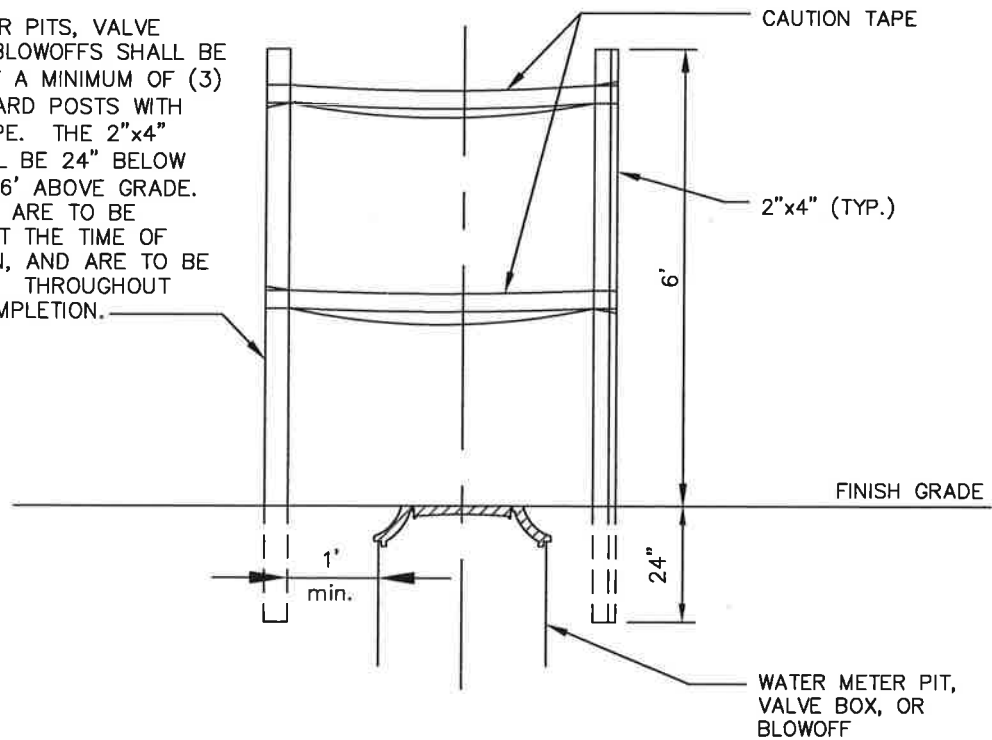
CITY OF
 SALISBURY
 SALISBURY, MD

APPROVED
 1/2/18
 Amanda Pellock
 CITY ENGINEER

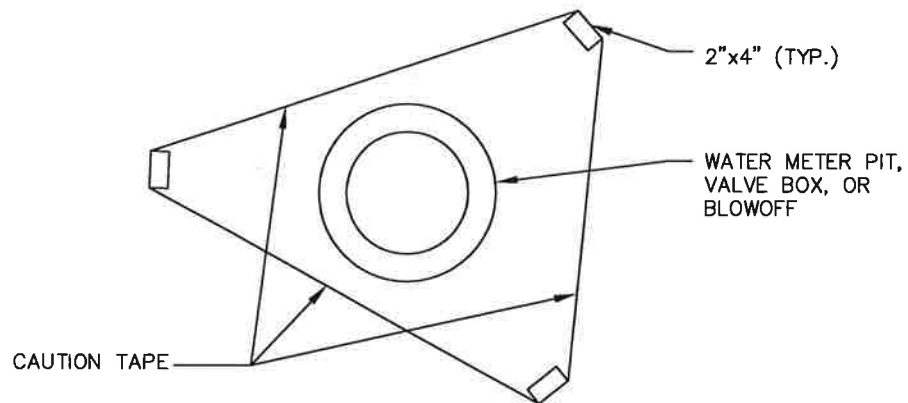
1" WATER SERVICE

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

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

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1/2/18

DATE

Amanda Pollack
CITY ENGINEER

TYPICAL 4" WATER SERVICE

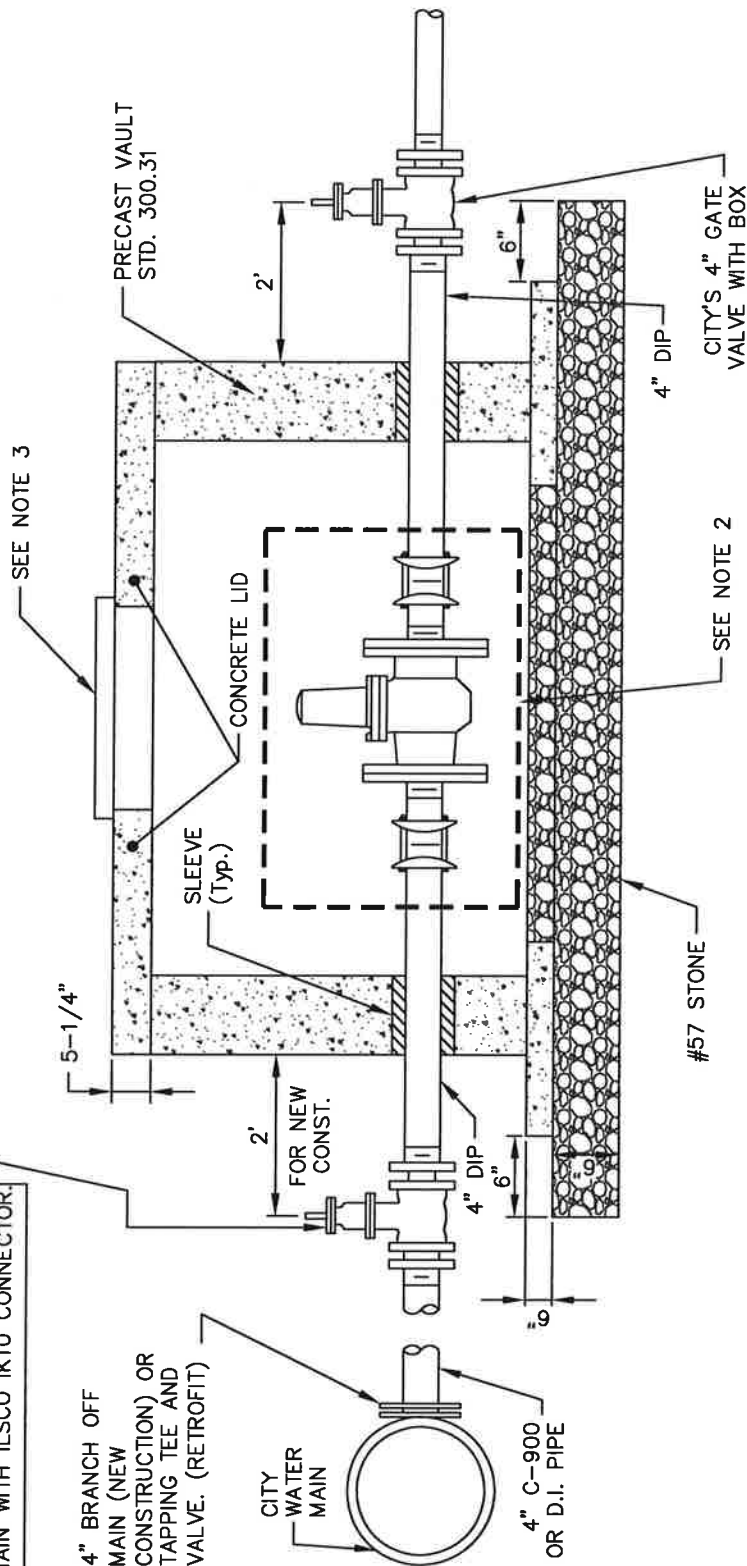
DATE 3/24/99

SCALE NONE

DWG. NO. STD30025

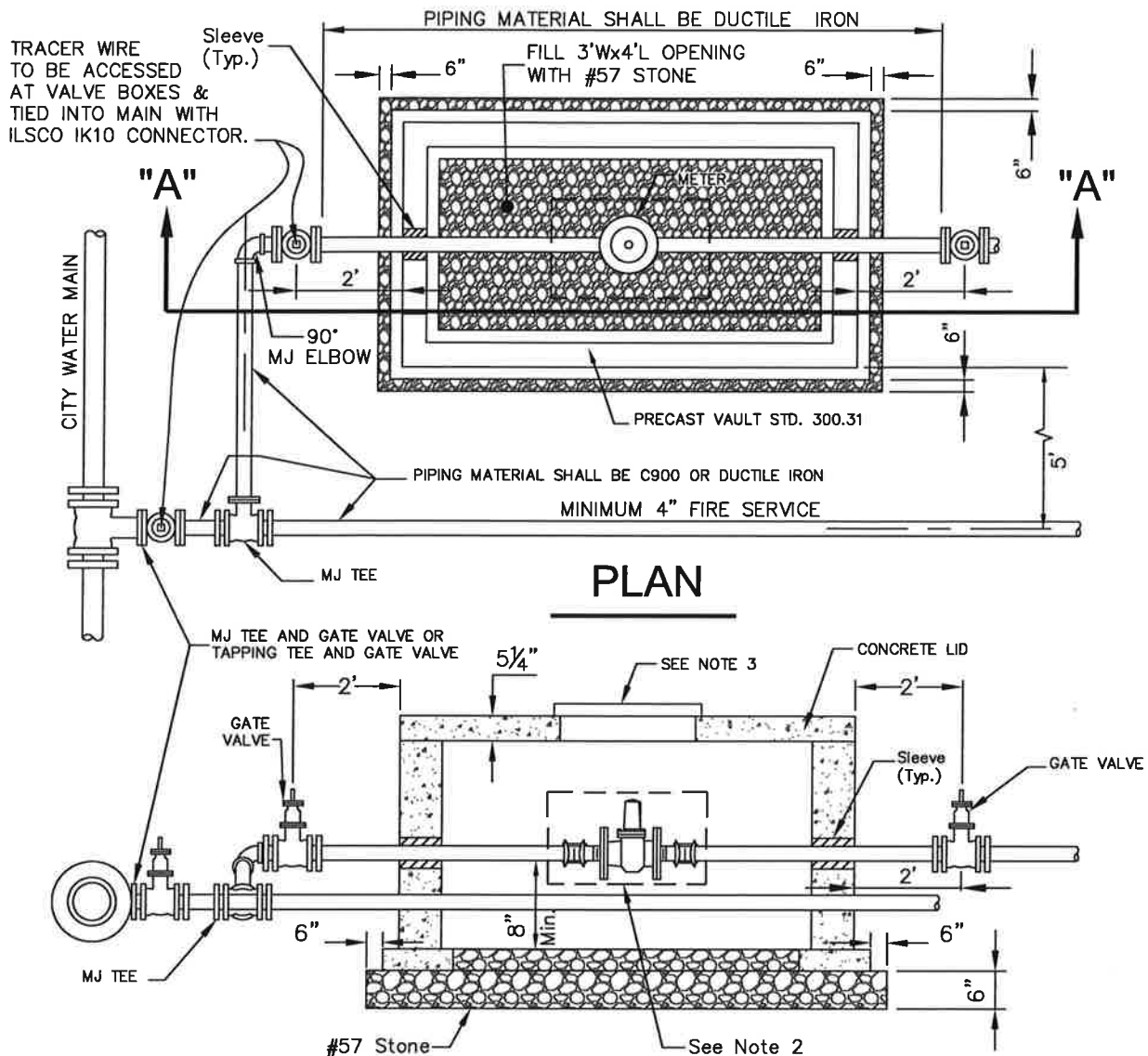
STD. NO. 300.25

* CITY'S 4" GATE VALVE WITH BOX
TRACER WIRE TO BE ACCESSIBLE
FROM VALVE BOX AND TIED INTO
MAIN WITH ILSKO IK10 CONNECTOR.



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.



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.

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CITY ENGINEER

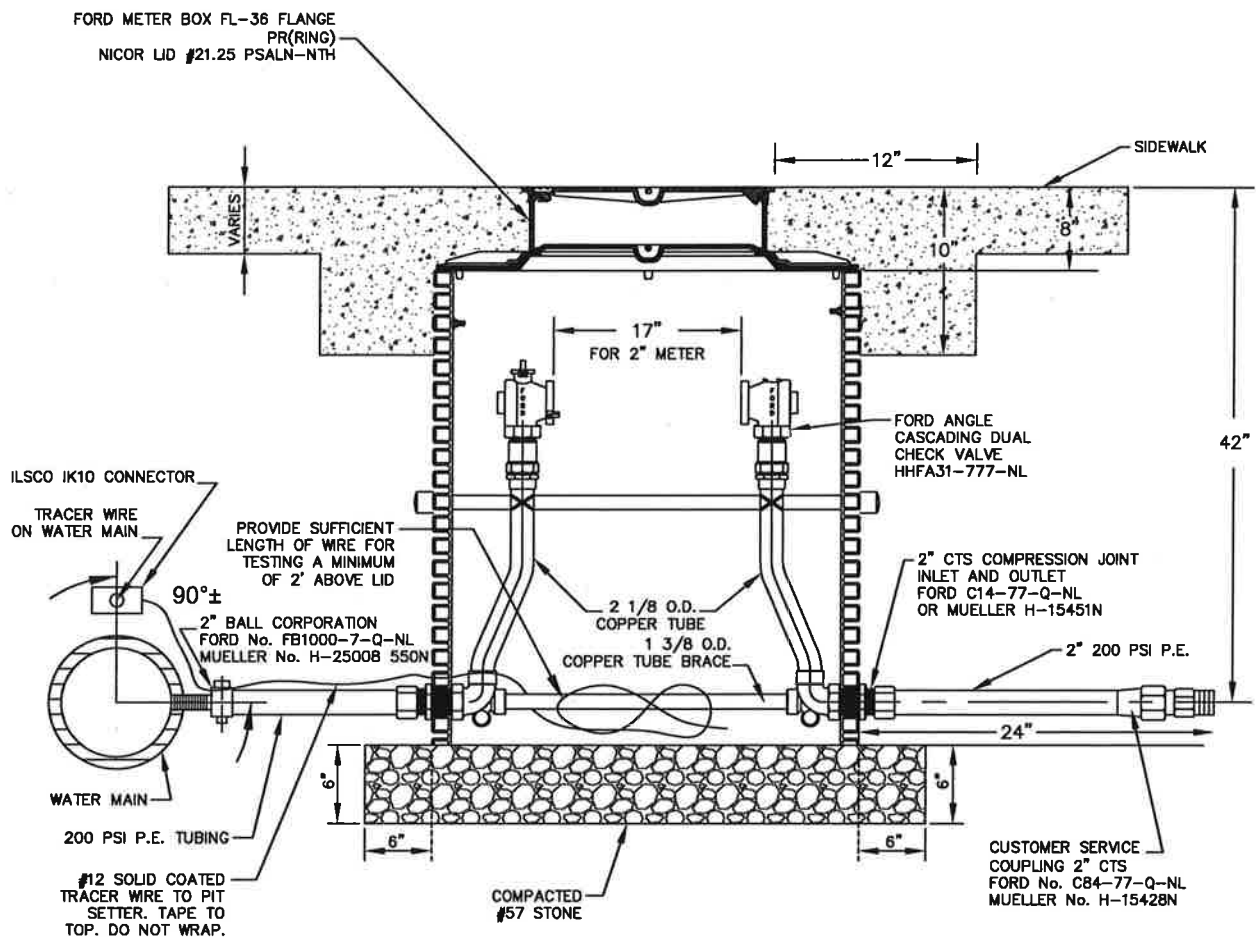
COMBINATION DOMESTIC
FIRE SERVICE
DOMESTIC 4" OR GREATER
FIRE SERVICE 4" OR GREATER

DATE 03/24/99

SCALE NONE

DWG. NO. STD30026

STD. NO. 300.26



NOTES

1. 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 A WAY AS TO CREATE POSITIVE DRAINAGE.
8. SEE STD 300.15 FOR GUARD DETAIL.

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1/2/18
Amanda Bell
CITY ENGINEER

DATE

2" WATER SERVICE
W/FORD PIT SETTER

DATE 12/14/01

SCALE NONE

DWG. NO. STD30027

STD. NO. 300.27

NOTES

1. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.

2. IF WATER MAIN IS PVC, USE APPROVED SADDLE FOR TAP.

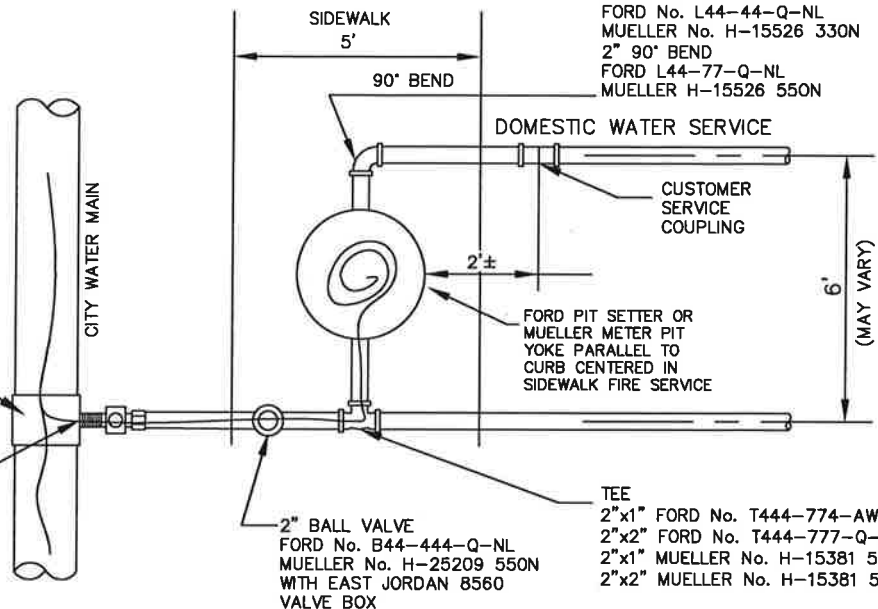
3. FOR PVC MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE

MUELLER SS SERIES STAINLESS STEEL SADDLE FOR 2" SERVICE DOUBLE STUD 7 1/2" LENGTH

FOR PVC MAIN GREATER THAN 12" FORD FC202 SERIES, MUELLER - DR2S SERIES NO SADDLE REQUIRED FOR DIP OR CIP

APPROVED SADDLE IF C-900

2" BALL CORPORATION
FORD No. FB1000-7-Q-NL
MUELLER No. H-25008 550N



DOMESTIC WATER SERVICE 1" OR 2"
FIRE SERVICE 2"

NOTES

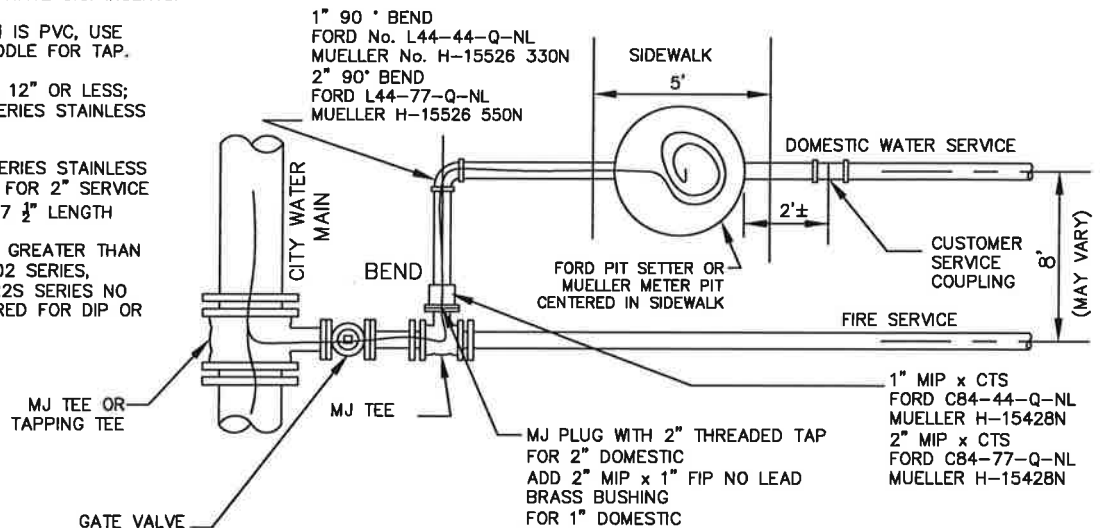
1. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.

2. IF WATER MAIN IS PVC, USE APPROVED SADDLE FOR TAP.

3. FOR PVC MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE

MUELLER SS SERIES STAINLESS STEEL SADDLE FOR 2" SERVICE DOUBLE STUD 7 1/2" LENGTH

FOR PVC MAIN GREATER THAN 12" FORD FC202 SERIES, MUELLER - DR2S SERIES NO SADDLE REQUIRED FOR DIP OR CIP



DOMESTIC WATER SERVICE 1" OR 2"
FIRE SERVICE 4" OR GREATER

CITY OF
SALISBURY
SALISBURY, MD

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1/2/18

DATE

Amanda Pollack
CITY ENGINEER

CONFIGURATION:
COMBINATION DOMESTIC
FIRE SERVICE
"PLAN VIEW"

DATE 1/29/08

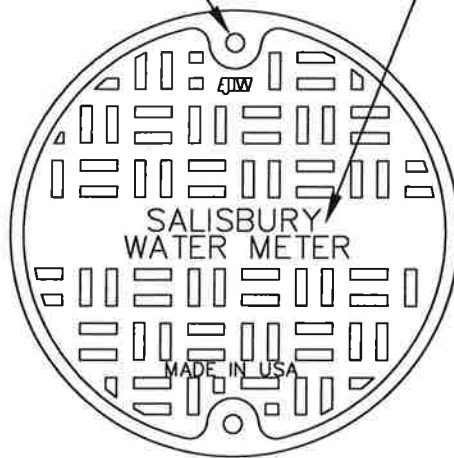
SCALE NONE

DWG. NO. STD30029

STD. NO. 300.29

1 1/8" DIA
HOLES (TYP.)

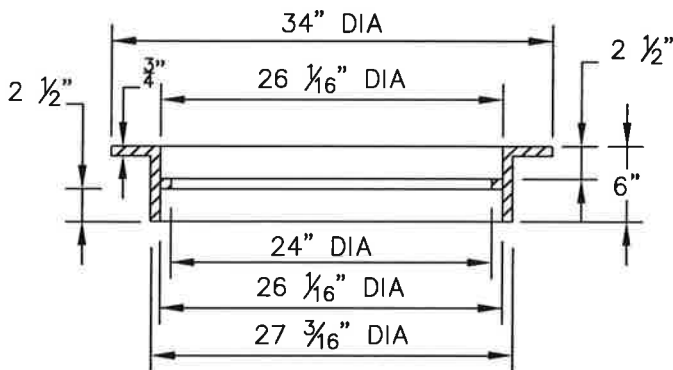
1 1/4" RAISED LETTERS



PLAN
SCALE: N.T.S.

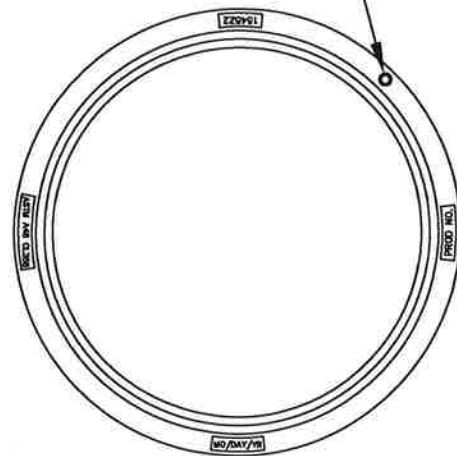


BOTTOM VIEW



FRAME—GRAY CAST IRON
ASTM A48 CL35B

1" DIA
HANDLING HOLE



BOTTOM VIEW

CITY OF
SALISBURY
SALISBURY, MD

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CITY ENGINEER

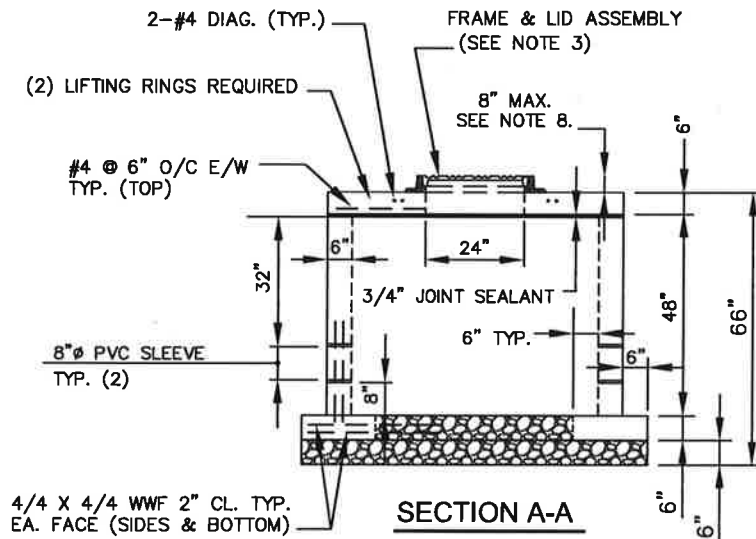
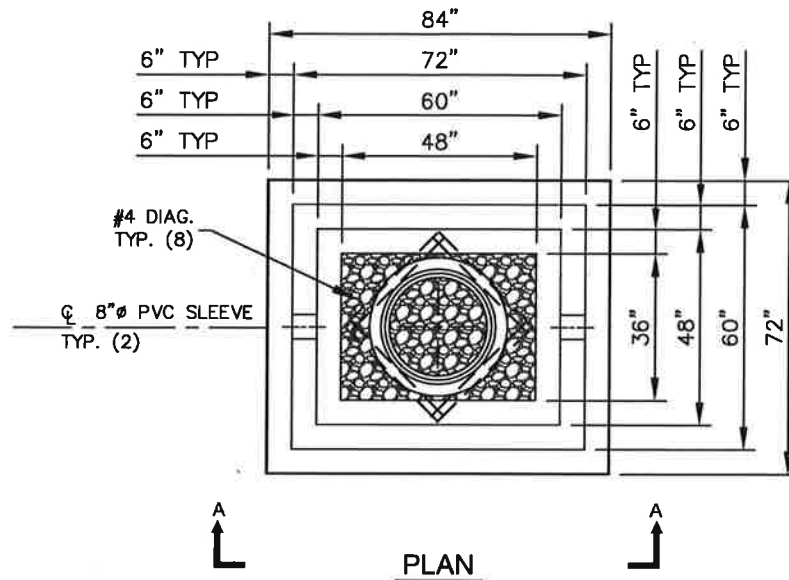
CIRCULAR FRAME &
COVER FOR PRE-CAST
WATER METER VAULTS

DATE 4/13/81

SCALE NONE

DWG. NO. STD30030

STD. NO. 300.30



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
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CITY ENGINEER

PRE-CAST CONCRETE WATER METER VAULT & LID

DATE 1/30/08

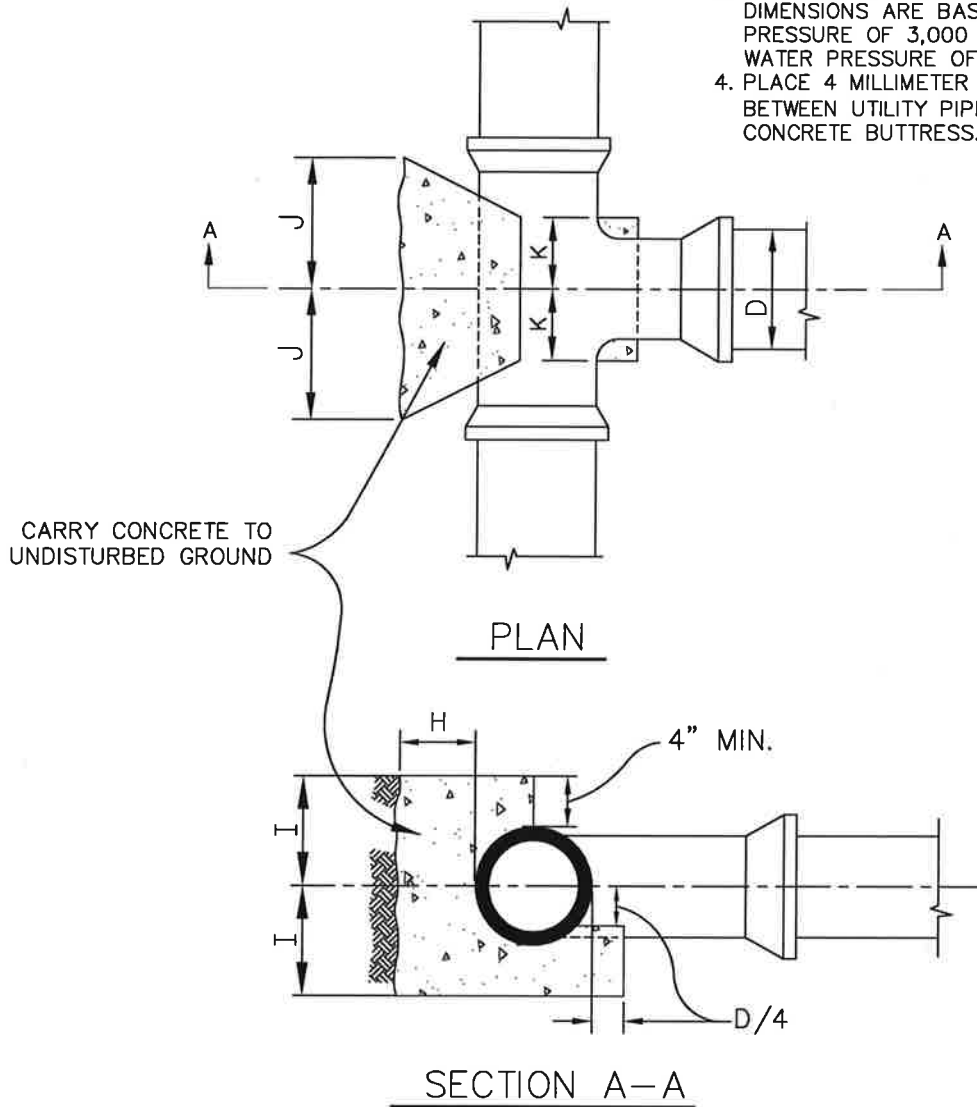
SCALE N.T.S.

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.



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"

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CITY ENGINEER

STANDARD WATER DETAILS
BUTTRESS FOR TEES

DATE 12/03/98

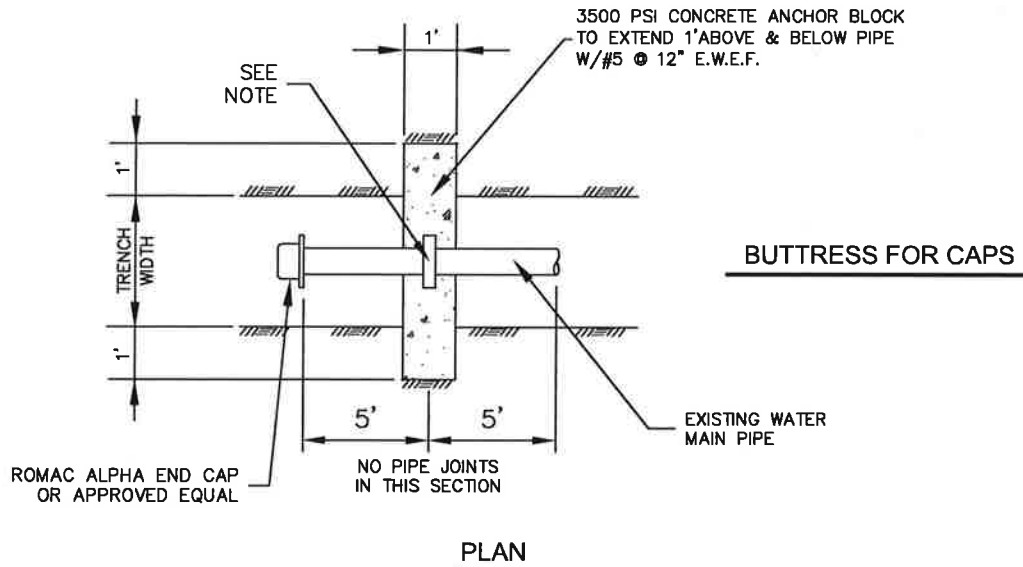
SCALE NONE

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



CITY OF
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 CITY ENGINEER

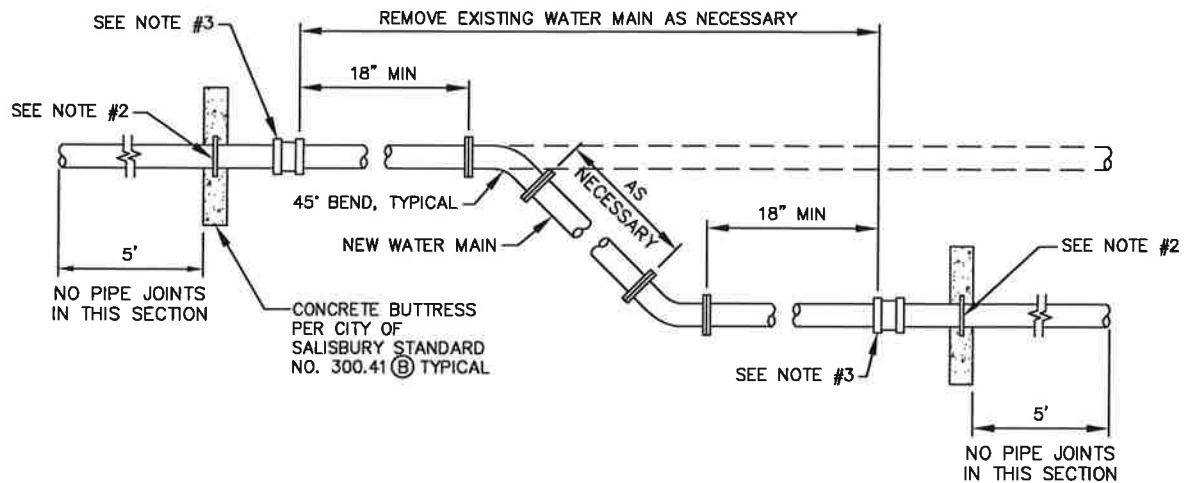
STANDARD INSTALLATION
 FOR END CAPS ON EXISTING
 WATER MAINS

DATE 12/03/98

SCALE NONE

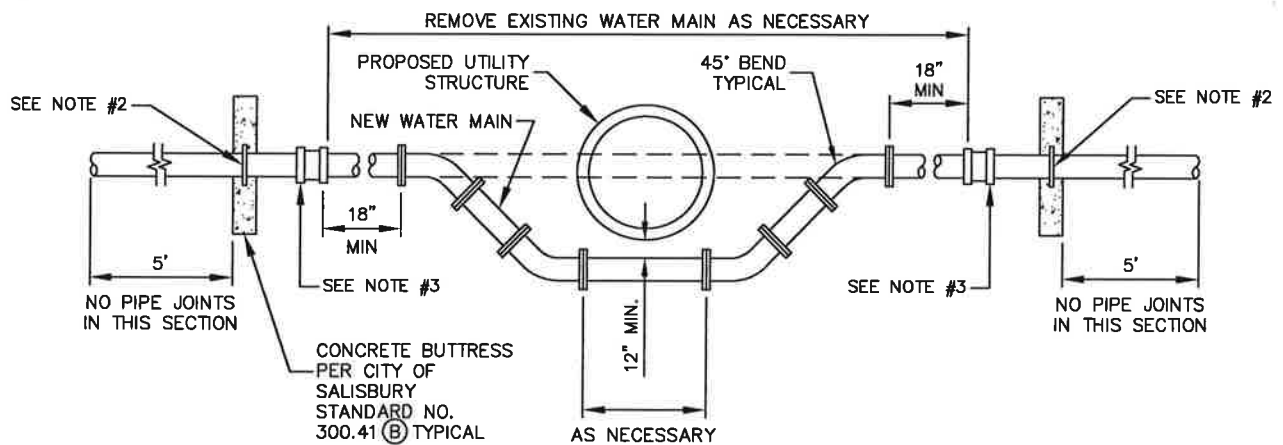
DWG. NO. STD30041

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
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1/2/18

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CITY ENGINEER

**WATER MAIN
REALIGNMENT DETAILS**

DATE 1/30/08

SCALE NONE

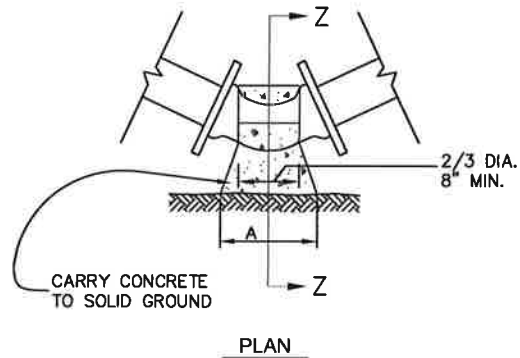
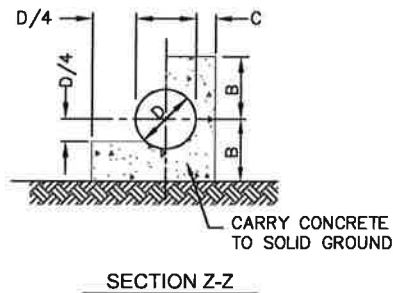
DWG. NO. STA30042

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 $\frac{1}{4}$ "	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 $\frac{1}{2}$ "	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"			



BUTTRESS FOR HORIZONTAL BENDS

CITY OF
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SALISBURY, MD

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1/2/18

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CITY ENGINEER

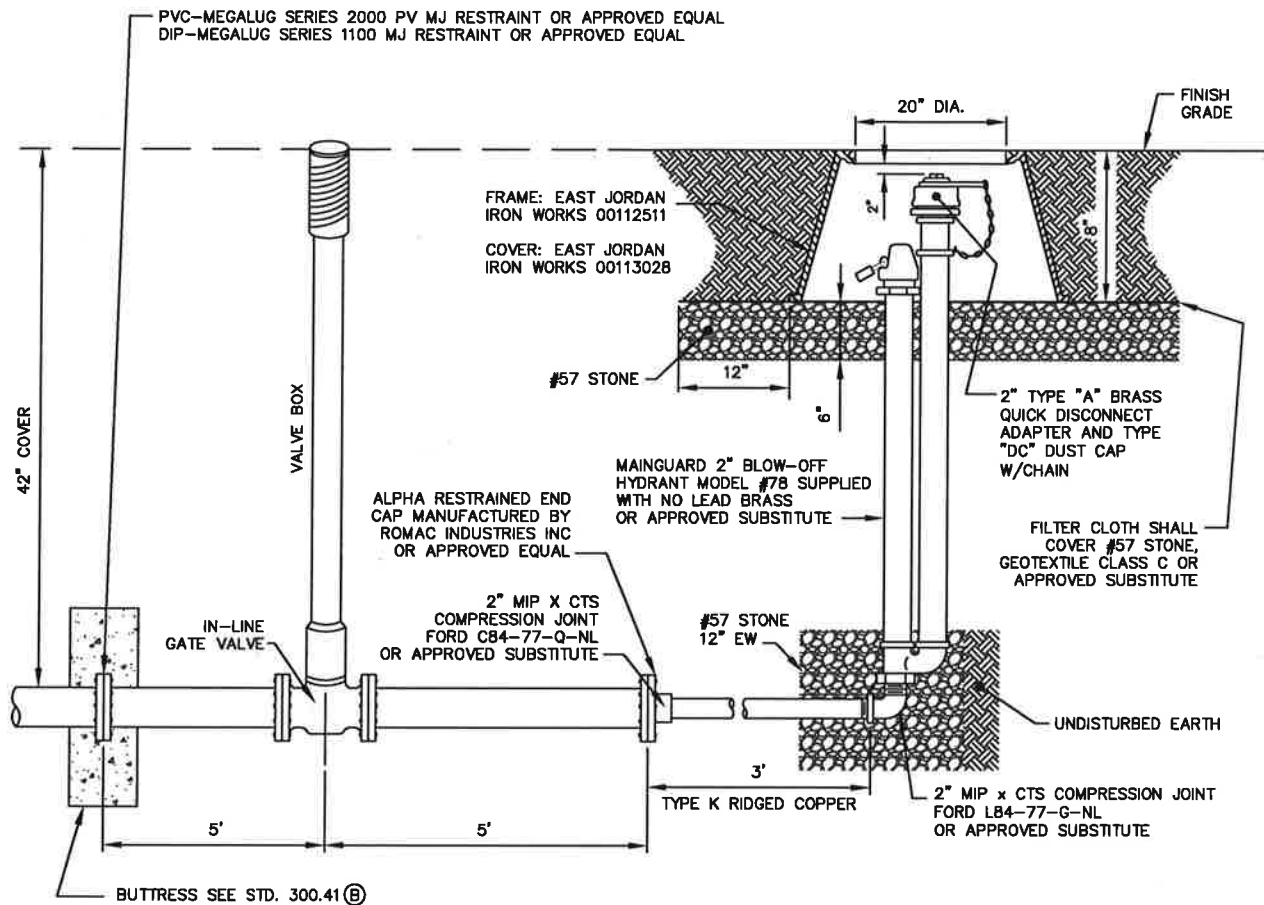
STANDARD WATER DETAILS
BUTTRESS FOR
HORIZONTAL BENDS

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.

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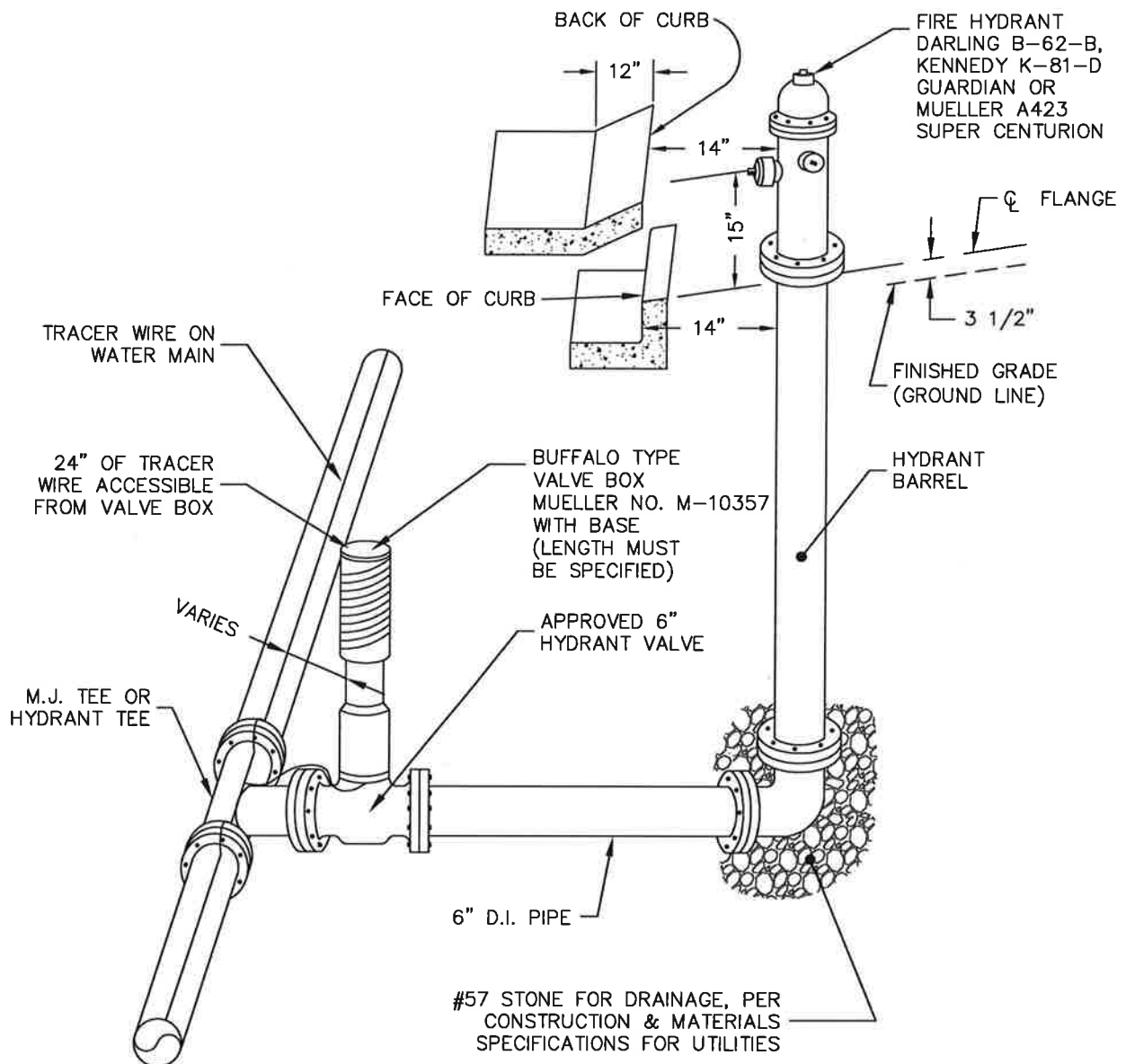
BLOW-OFF HYDRANT

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 PIPE JOINTS WITH SET-SCREW TYPE M.J. RETAINER GLANDS.
6. HYDRANT LEAD SHALL USE (2) $\frac{3}{4}$ " THREADED TIE RODS 180° APART.
7. 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.
8. ALL FITTINGS MUST BE MEGALUG.
9. MUST USE RESTRAINING GASKETS OR ALPHA COUPLINGS FOR ALL PIPE JOINTS.

CITY OF
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CITY ENGINEER

STANDARD INSTALLATION FIRE HYDRANT

DATE 08/29/86

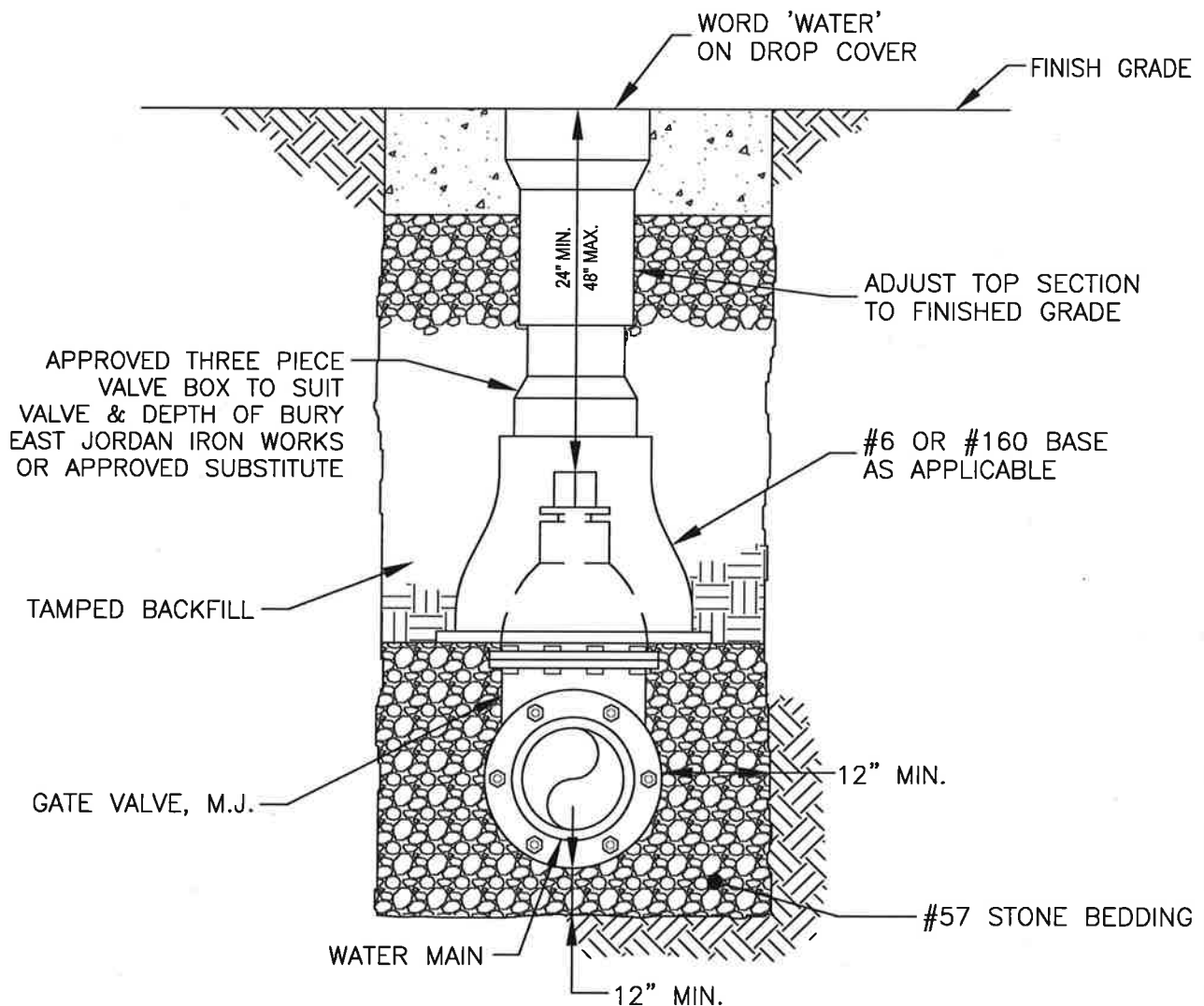
SCALE NONE

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.



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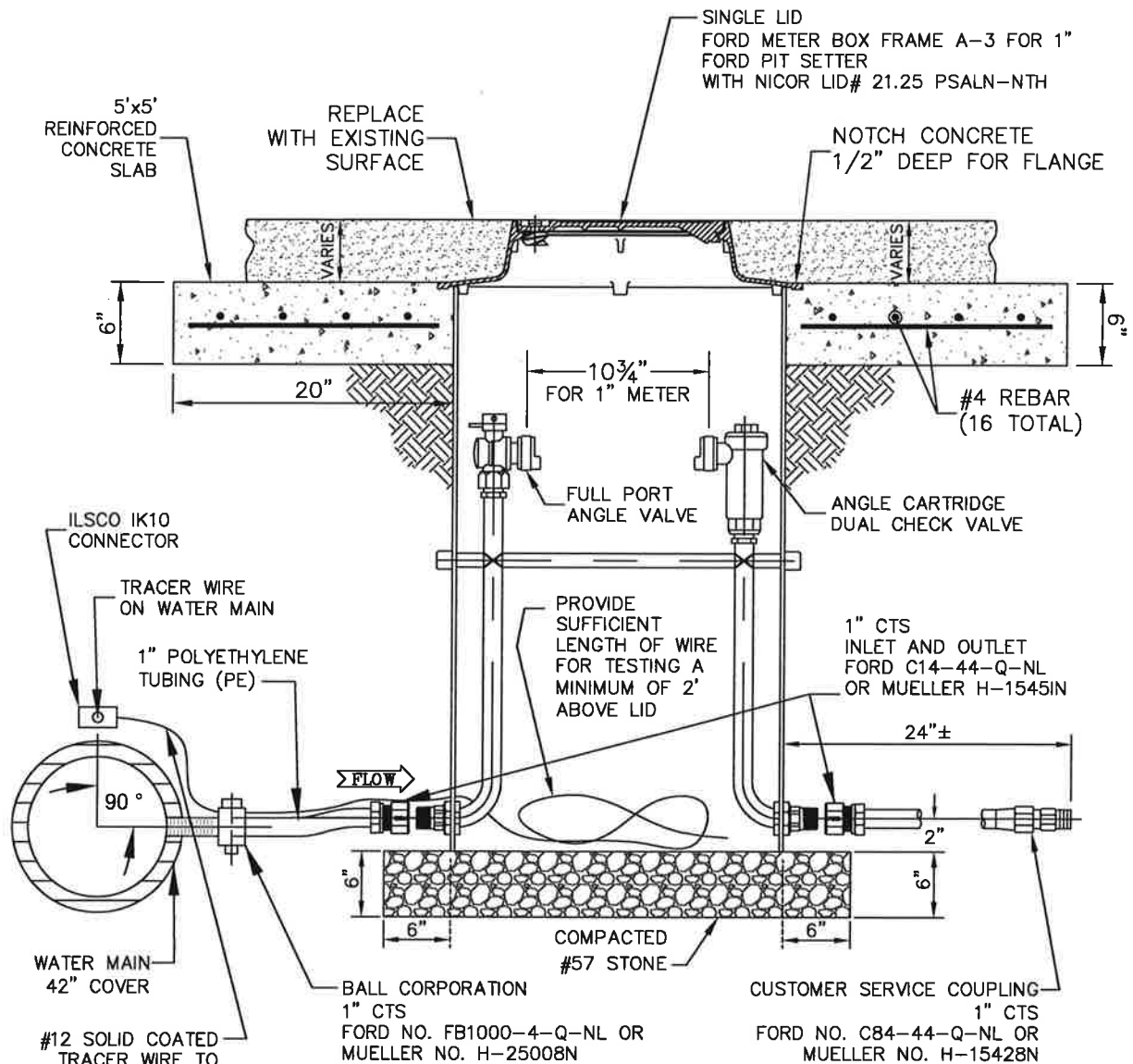
GATE VALVE INSTALLATION

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.

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1/2/18

DATE

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CITY ENGINEER

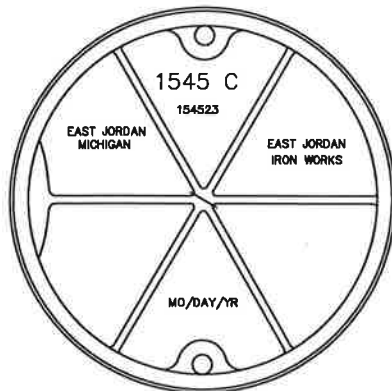
TRAFFIC BEARING 1" WATER SERVICE

DATE 01/01/17

SCALE NONE

DWG. NO. STD30057

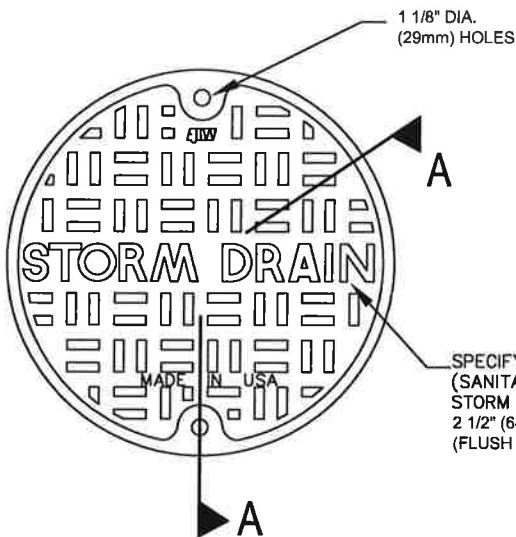
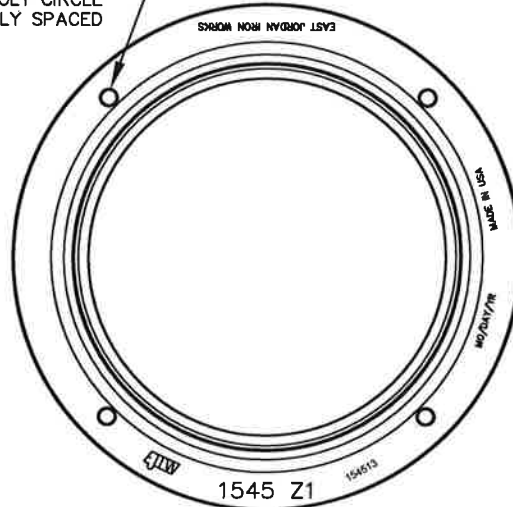
STD. NO. 300.57



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

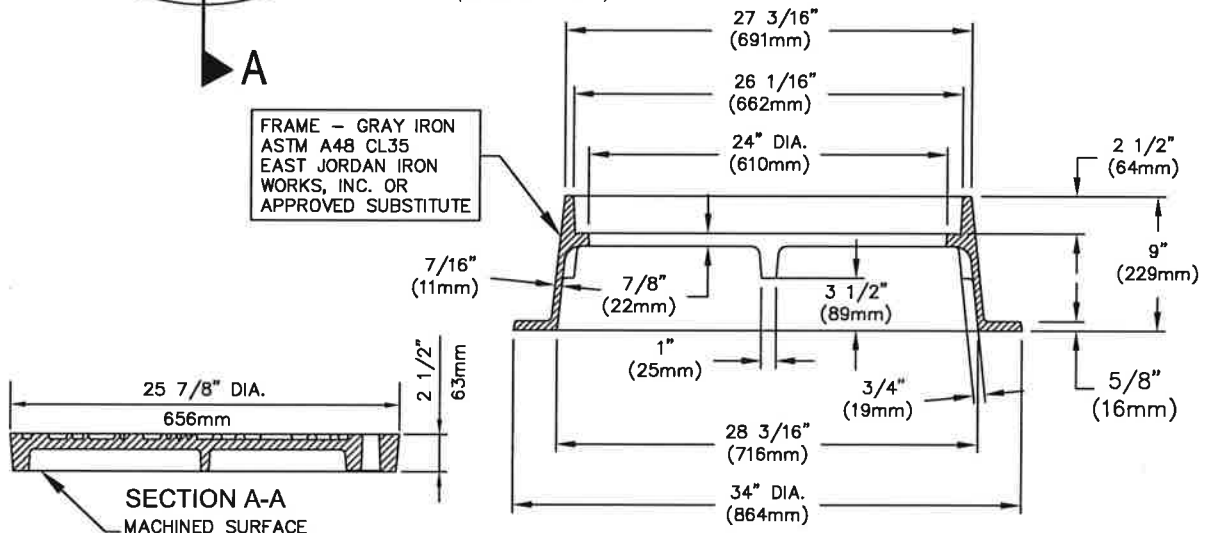


1 1/8" DIA.
 (29mm) HOLES

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



CITY OF
 SALISBURY
 SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Pollock
 CITY ENGINEER

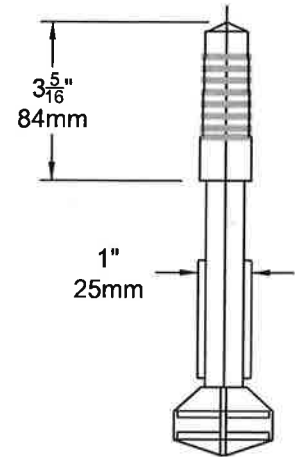
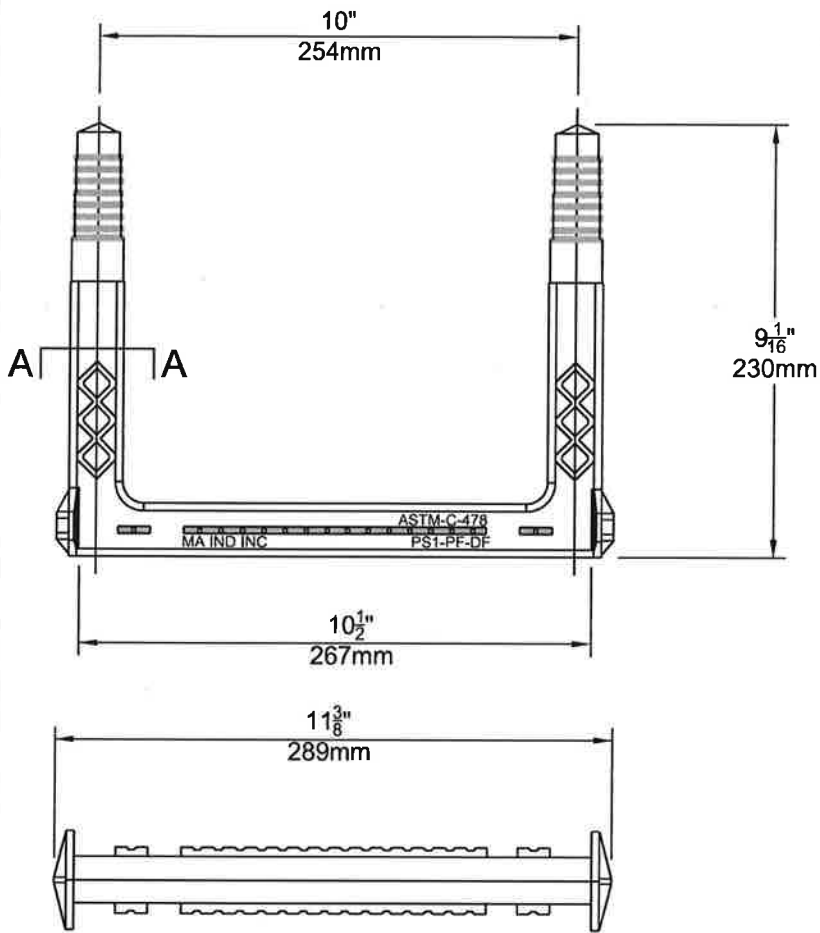
MANHOLE FRAME & COVER
 SANITARY SEWER OR
 STORM WATER

DATE 1/04/01

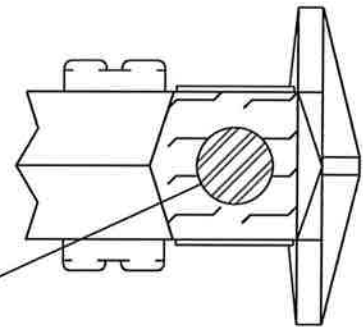
SCALE NONE

DWG. NO. STD40010

STD. NO. 400.10

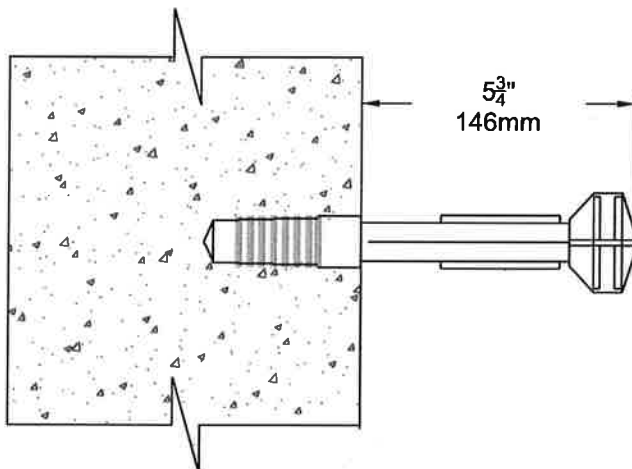


COPOLYMER POLYPROPYLENE PLASTIC
13mm (1/2") GRADE 60 STEEL REINFORCEMENT



SECTION A-A

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



CITY OF
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SALISBURY, MD

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Amanda Pollack
CITY ENGINEER

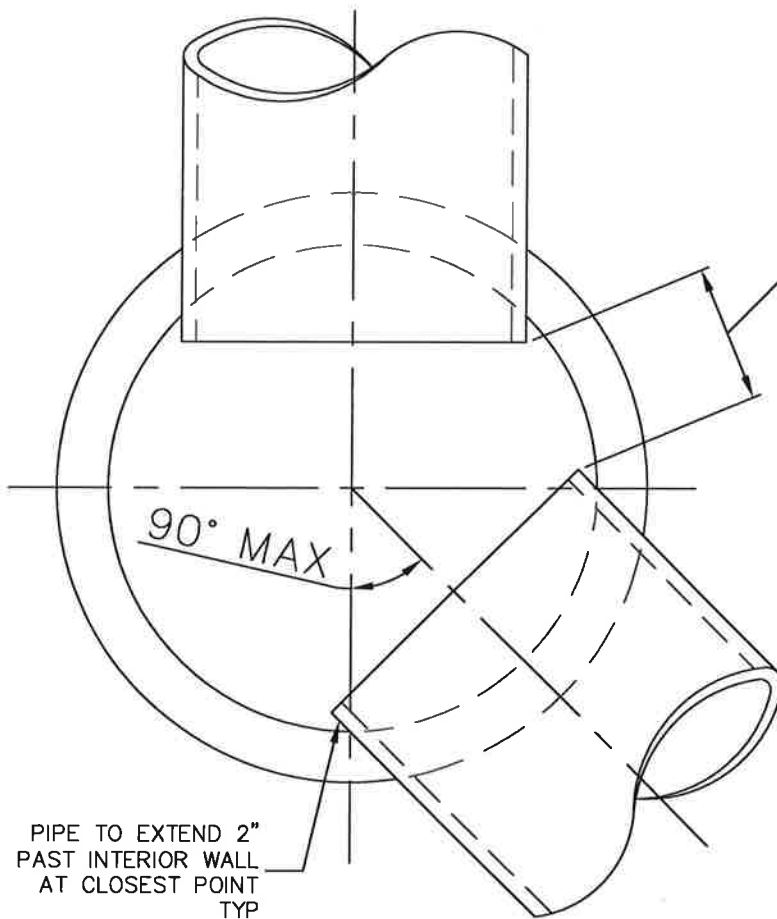
MANHOLE STEPS
SANITARY SEWER
OR
STORM WATER

DATE 03/01/12

SCALE NONE

DWG. NO. STD40011

STD. NO. 400.11



MIN. DISTANCE BETWEEN
PENETRATIONS = $1/2$ OF PIPE
O.D. (MIN.)

WHEN ADJACENT PIPES ARE
DIFFERENT SIZES: USE $1/2$ O.D.
OF SMALLER PIPE

PLAN VIEW OF MANHOLE

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

Amanda Pollack DATE
CITY ENGINEER

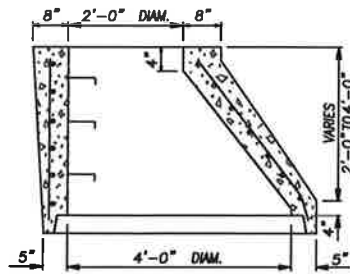
MANHOLE CONFIGURATIONS

DATE 8/29/86

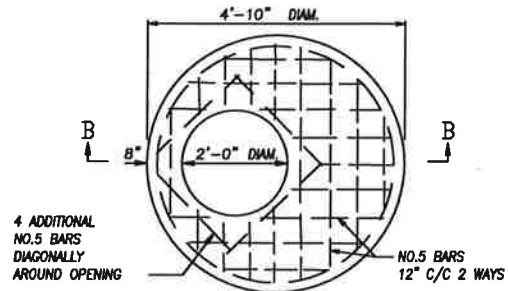
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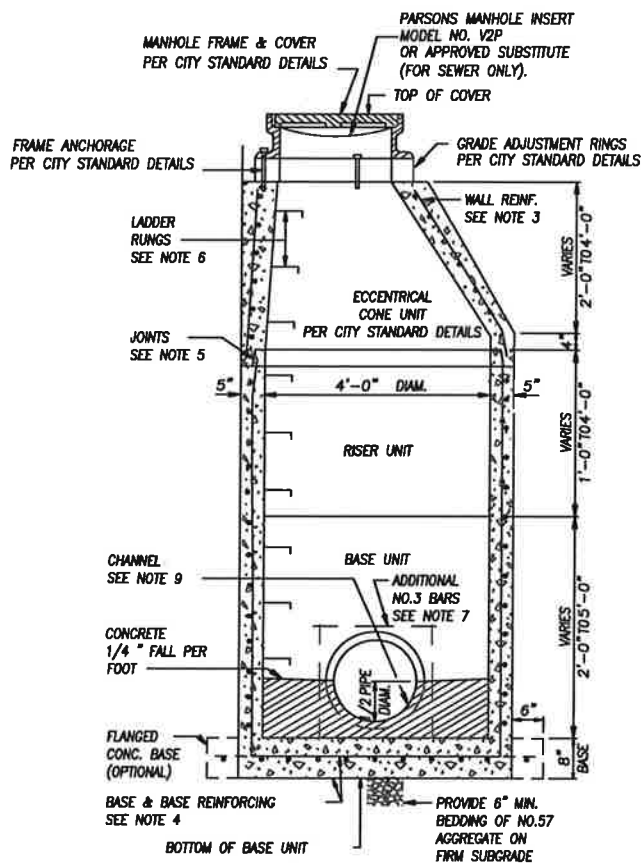
STD. NO. 400.12



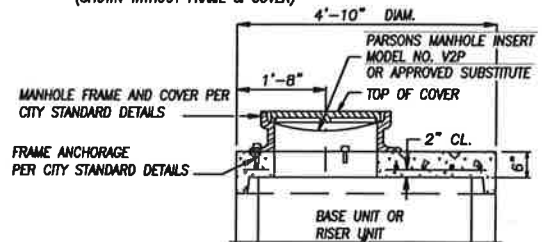
ALTERNATE ECCENTRIC
CONE UNIT



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 ECCENTRIC 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

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DATE

Amanda Pollack
CITY ENGINEER

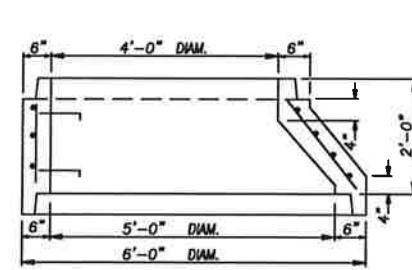
48" DIAMETER
MANHOLE
FOR PIPES UP TO 24"

DATE 02/04/10

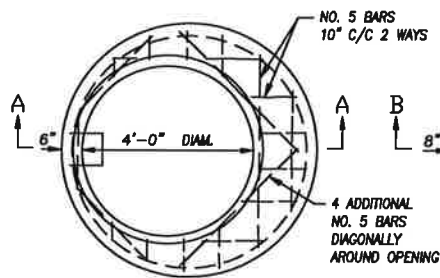
SCALE N.T.S.

DWG. NO. 400.13

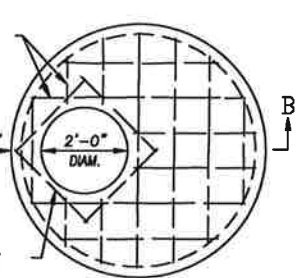
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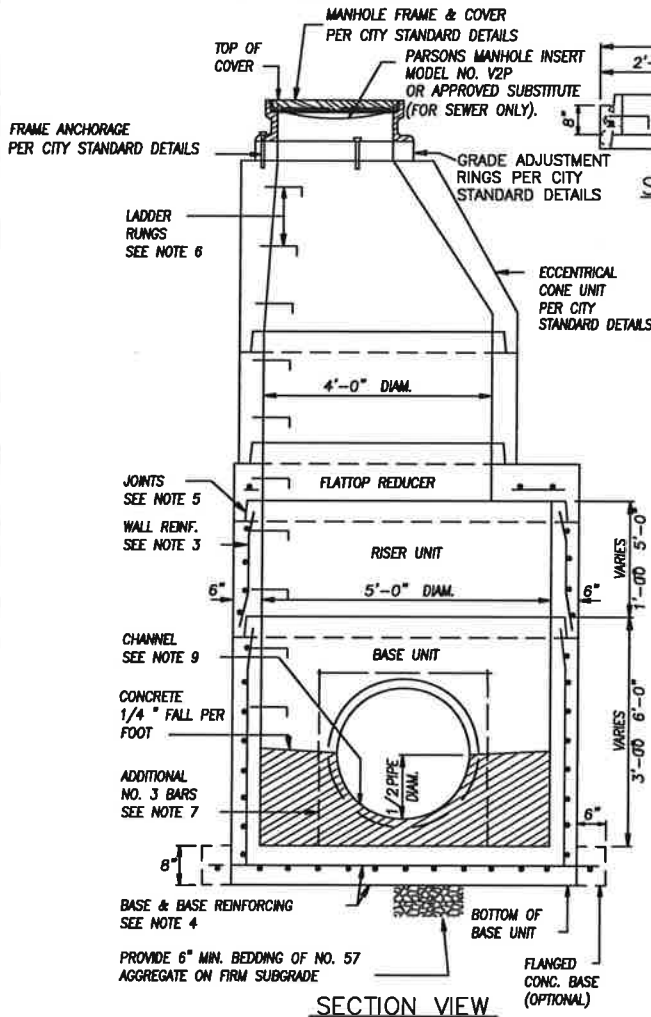
ECCENTRIC CONE REDUCER
(ALTERNATE FOR FLATTOP REDUCER)



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

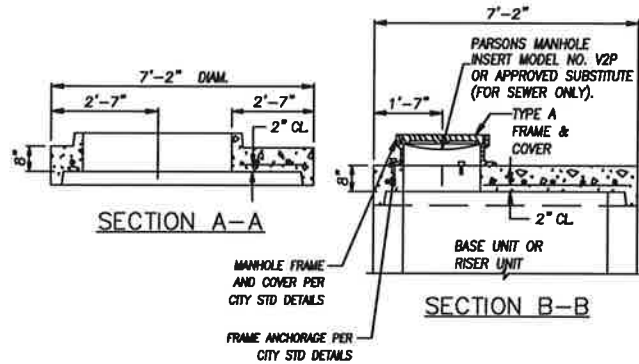
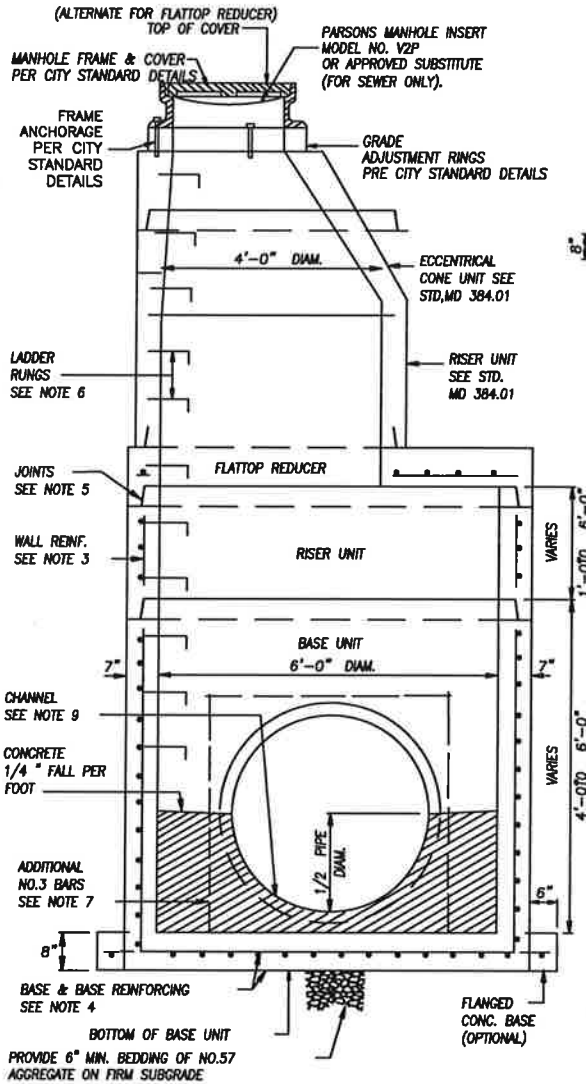
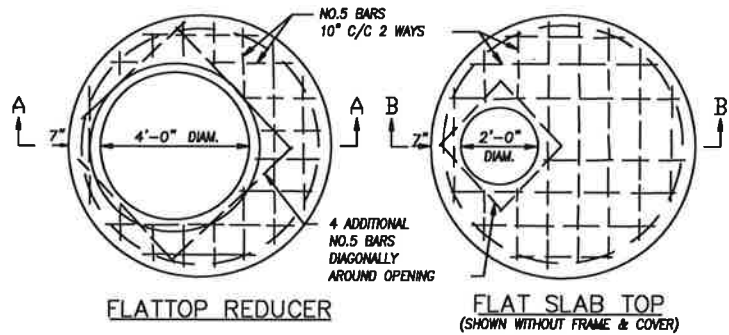
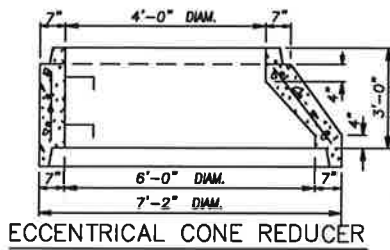
60" DIAMETER
MANHOLE
FOR
27" TO 36" PIPES

DATE 02/04/10

SCALE N.T.S.

DWG. NO. STD40014

STD. NO. 400.14



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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6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
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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

Amadeo Pollack
CITY ENGINEER

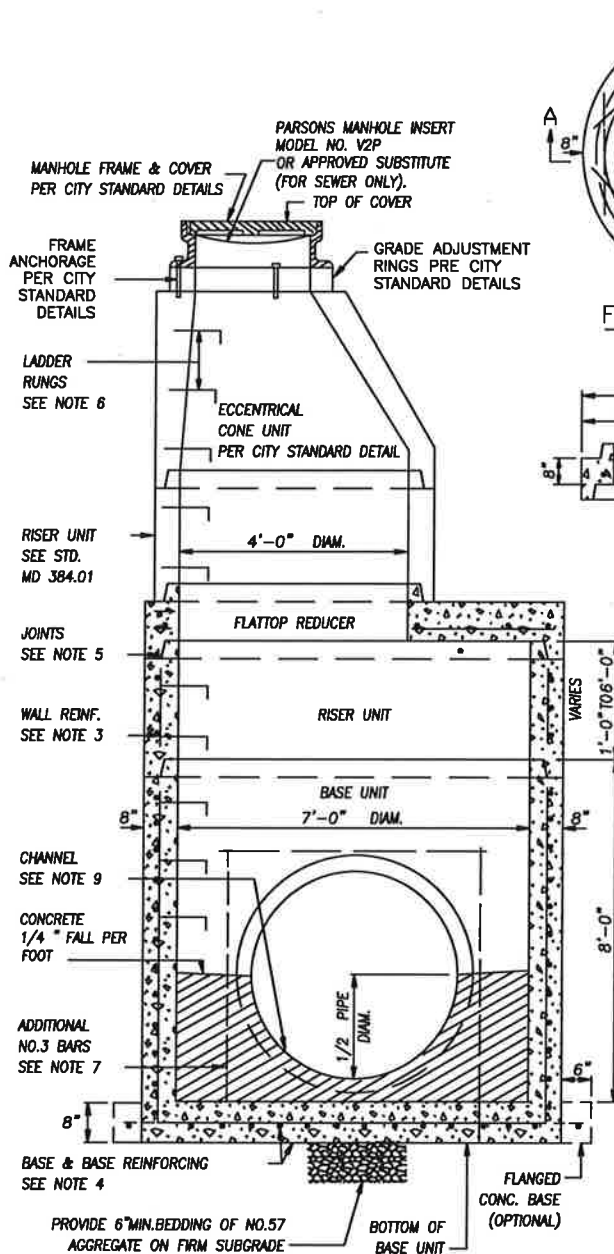
72" DIAMETER
MANHOLE
FOR
42" TO 48" PIPES

DATE 02/04/10

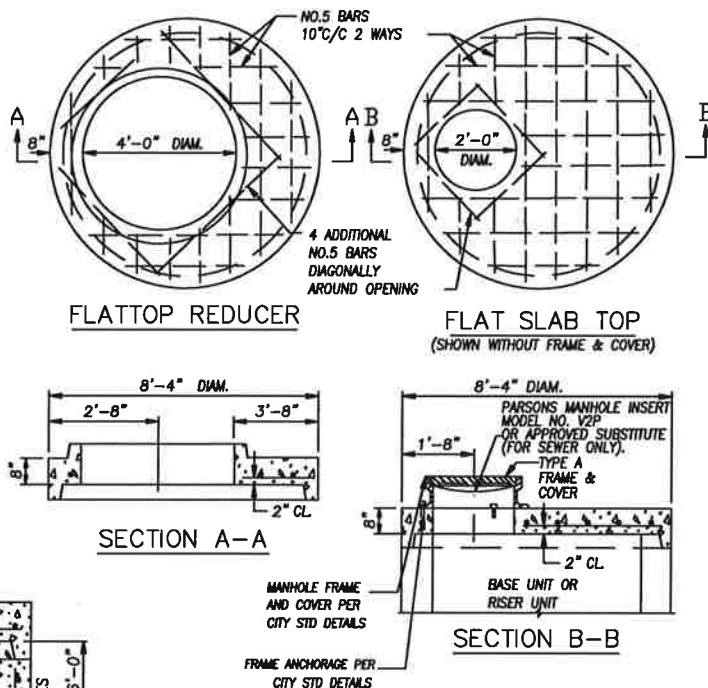
SCALE N.T.S.

DWG. NO. STD40015

STD. NO. 400.15



SECTION VIEW



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 Bellach
CITY ENGINEER

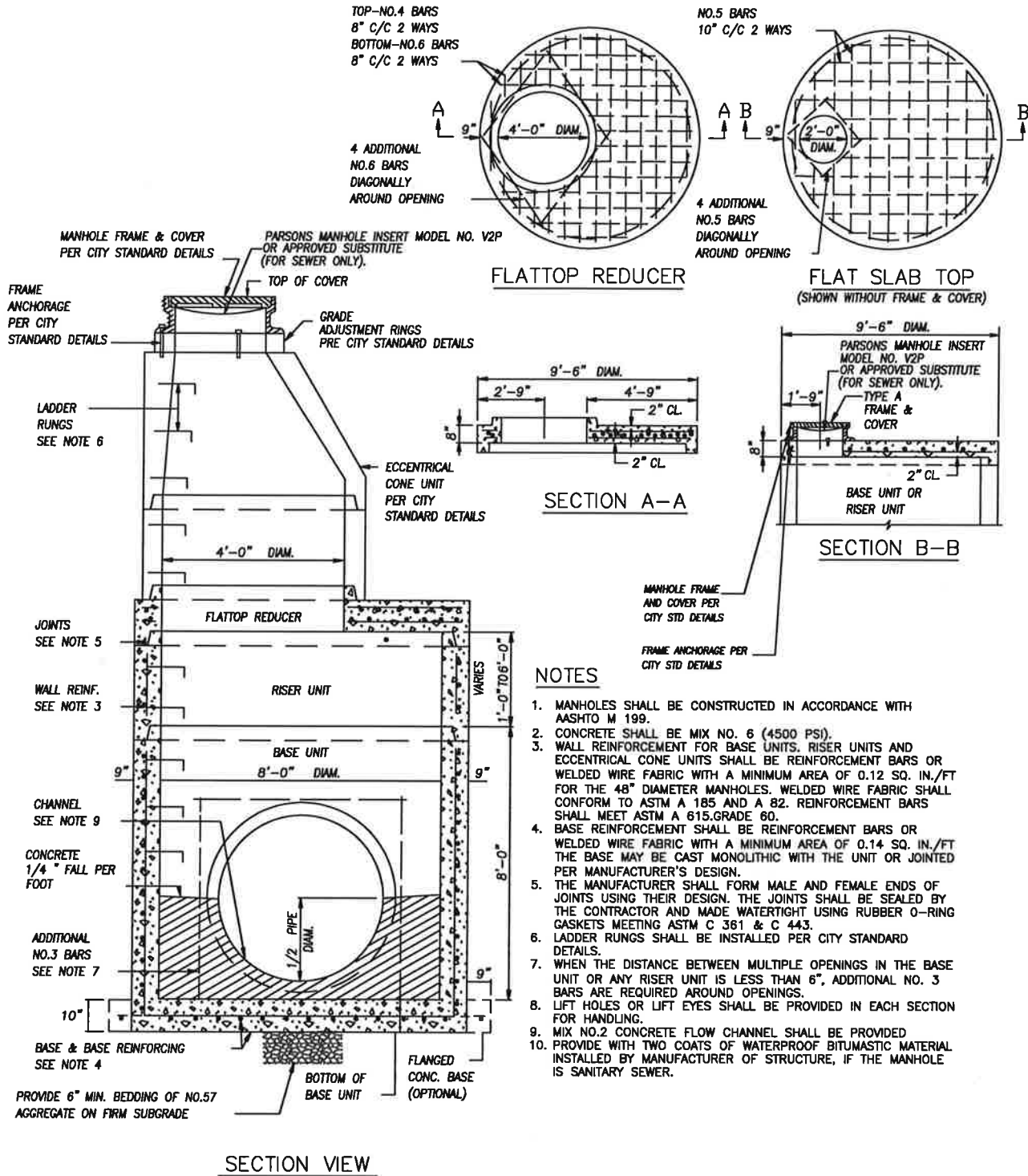
84\" DIAMETER
MANHOLE
FOR
54\" TO 60\" PIPES

DATE 02/04/10

SCALE N.T.S.

DWG. NO. STD40016

STD. NO. 400.16



CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

DATE

Amanda Black
CITY ENGINEER

90" DIAMETER
MANHOLE
FOR
72" PIPES

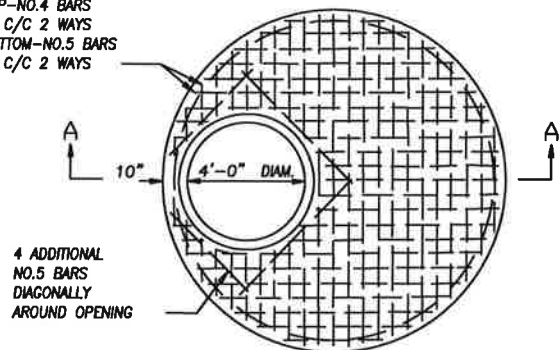
DATE 02/04/10

SCALE N.T.S.

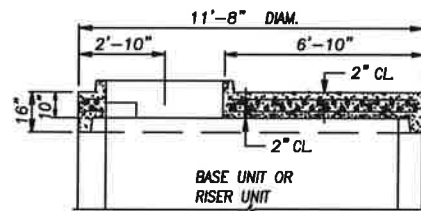
DWG. NO. STD40017

STD. NO. 400.17

TOP-NO.4 BARS
6" C/C 2 WAYS
BOTTOM-NO.5 BARS
6" C/C 2 WAYS



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 ECCENTRIC 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.
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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.
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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.

SECTION VIEW

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

DATE _____

DATE _____
Amanda Pollack
CITY ENGINEER

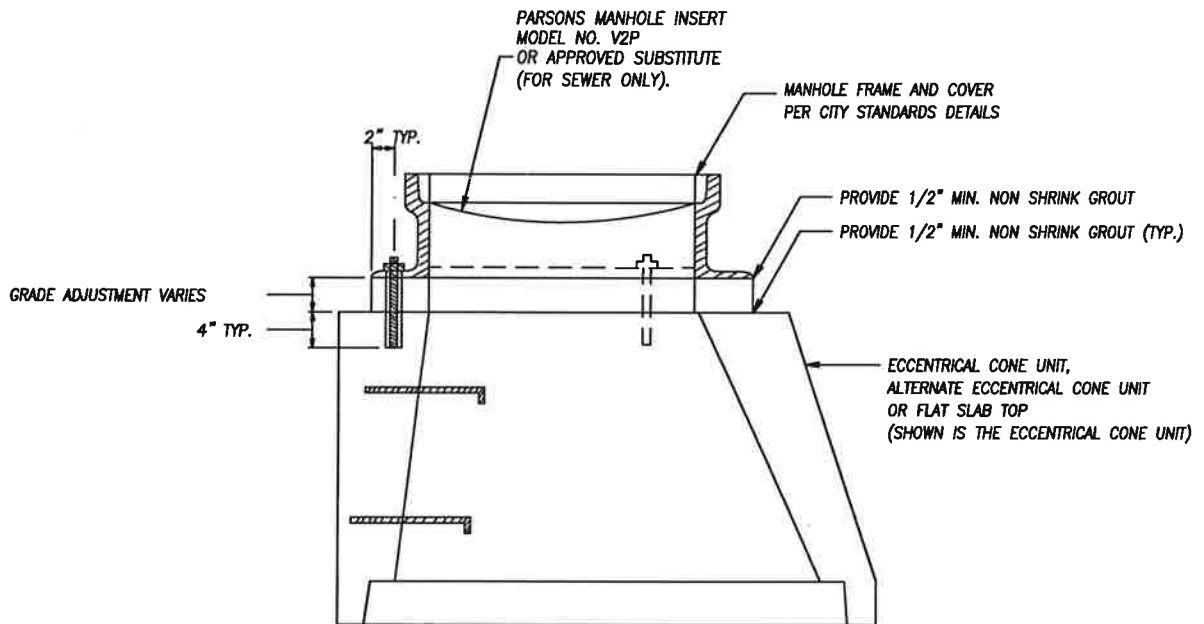
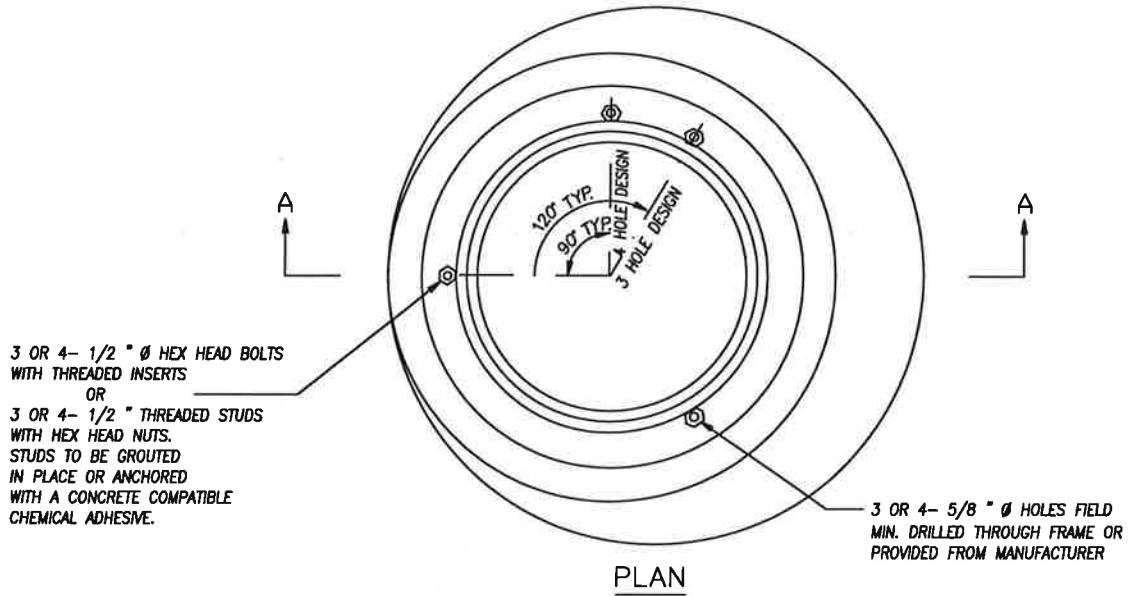
120" DIAMETER MANHOLE FOR 78" TO 84" PIPES

DATE 02/04/10

SCALE N.T.S.

DWG. NO. STD40018

STD. NO. 400.18



SECTION A-A

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/2/18

Amanda Pollack
CITY ENGINEER

DATE

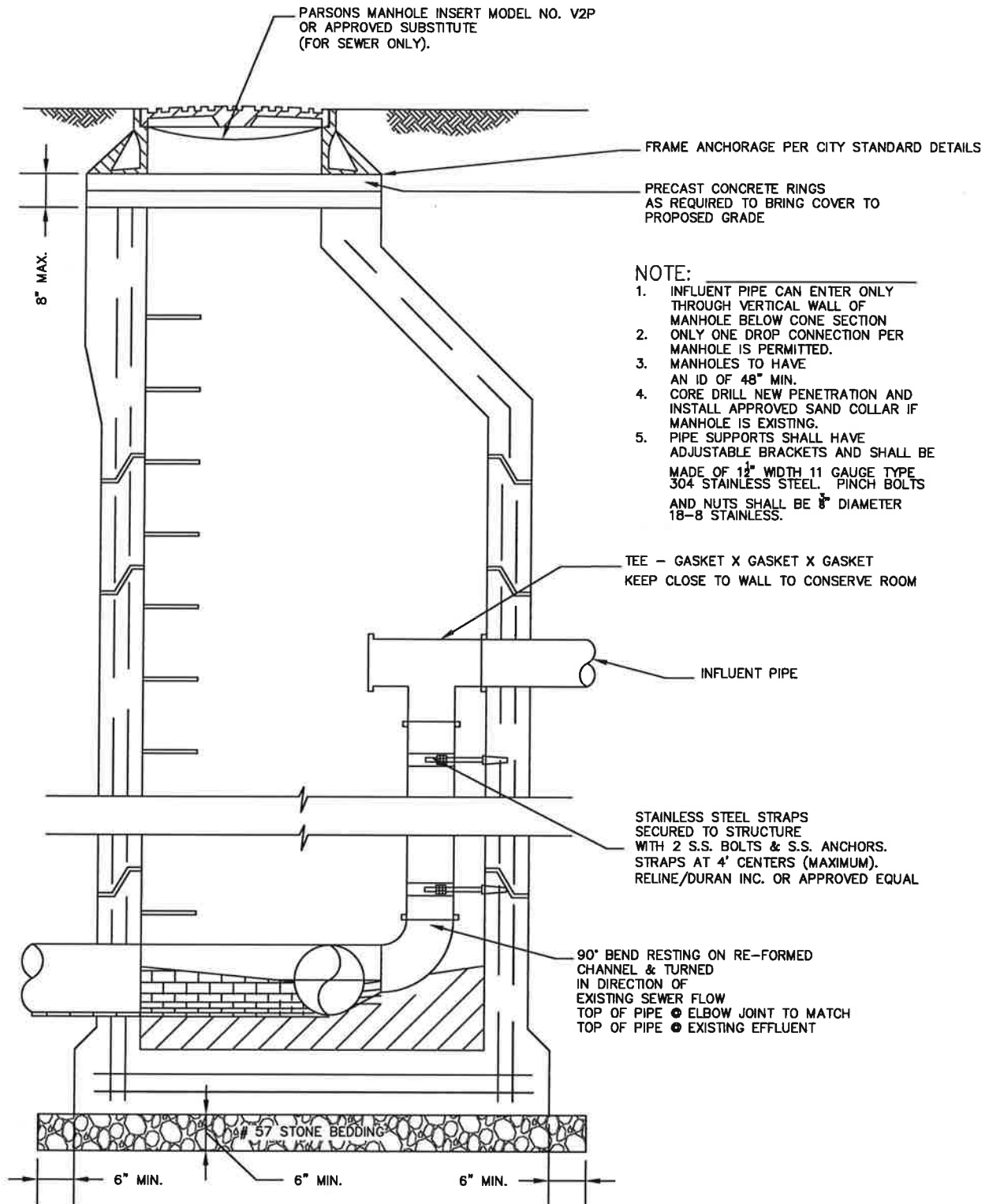
FRAME ANCHORAGE
FOR
PRECAST MANHOLES

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

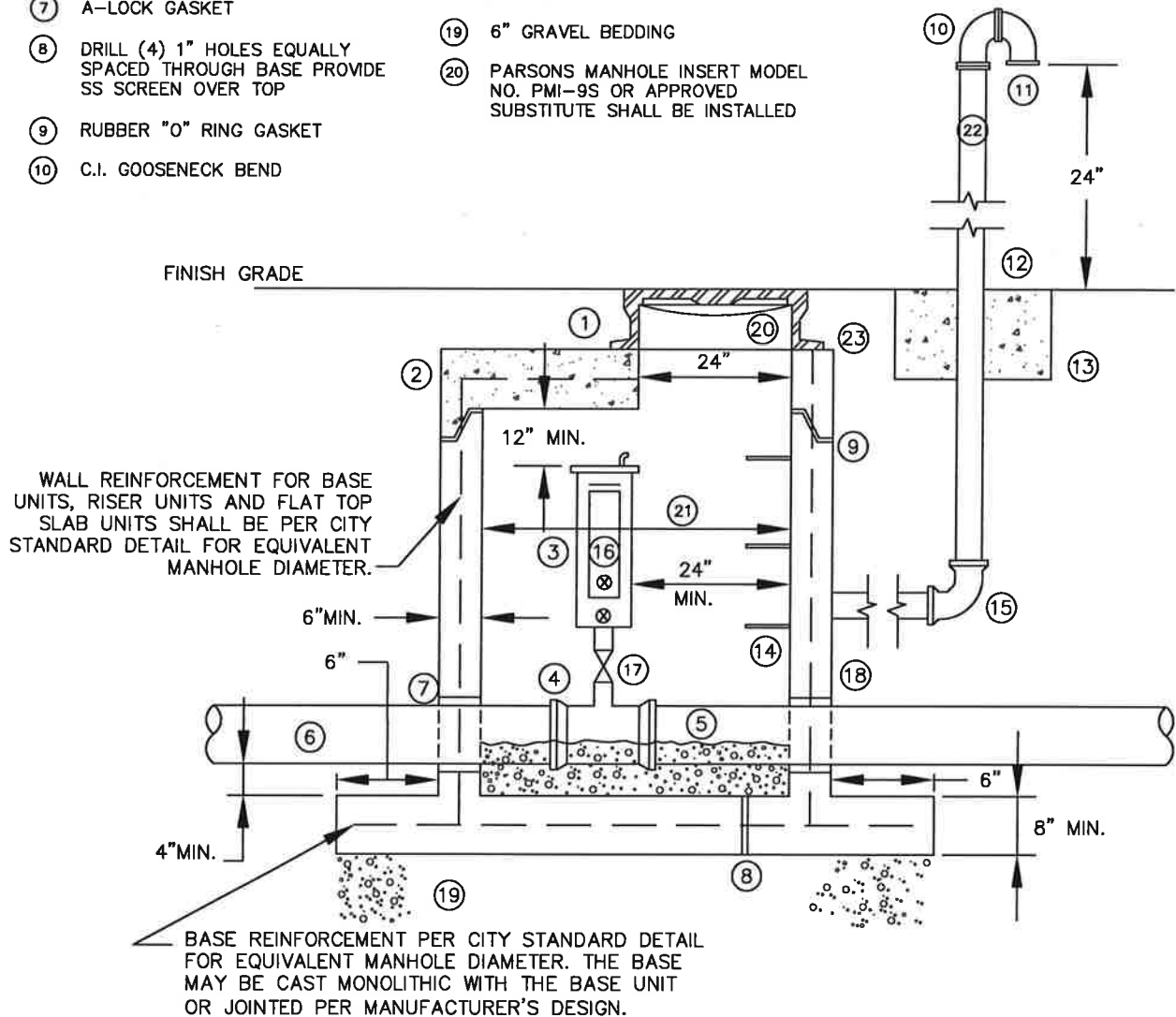
㉒ MIN. 4" DIA. PIPE

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
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SALISBURY, MD

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1/2/18

DATE

Amanda Pollack
CITY ENGINEER

FORCE MAIN
AIR VALVE
ACCESS MANHOLE

DATE 04/05/89

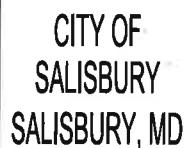
SCALE SCALE

DWG. NO. STD40026

STD. NO. 400.26

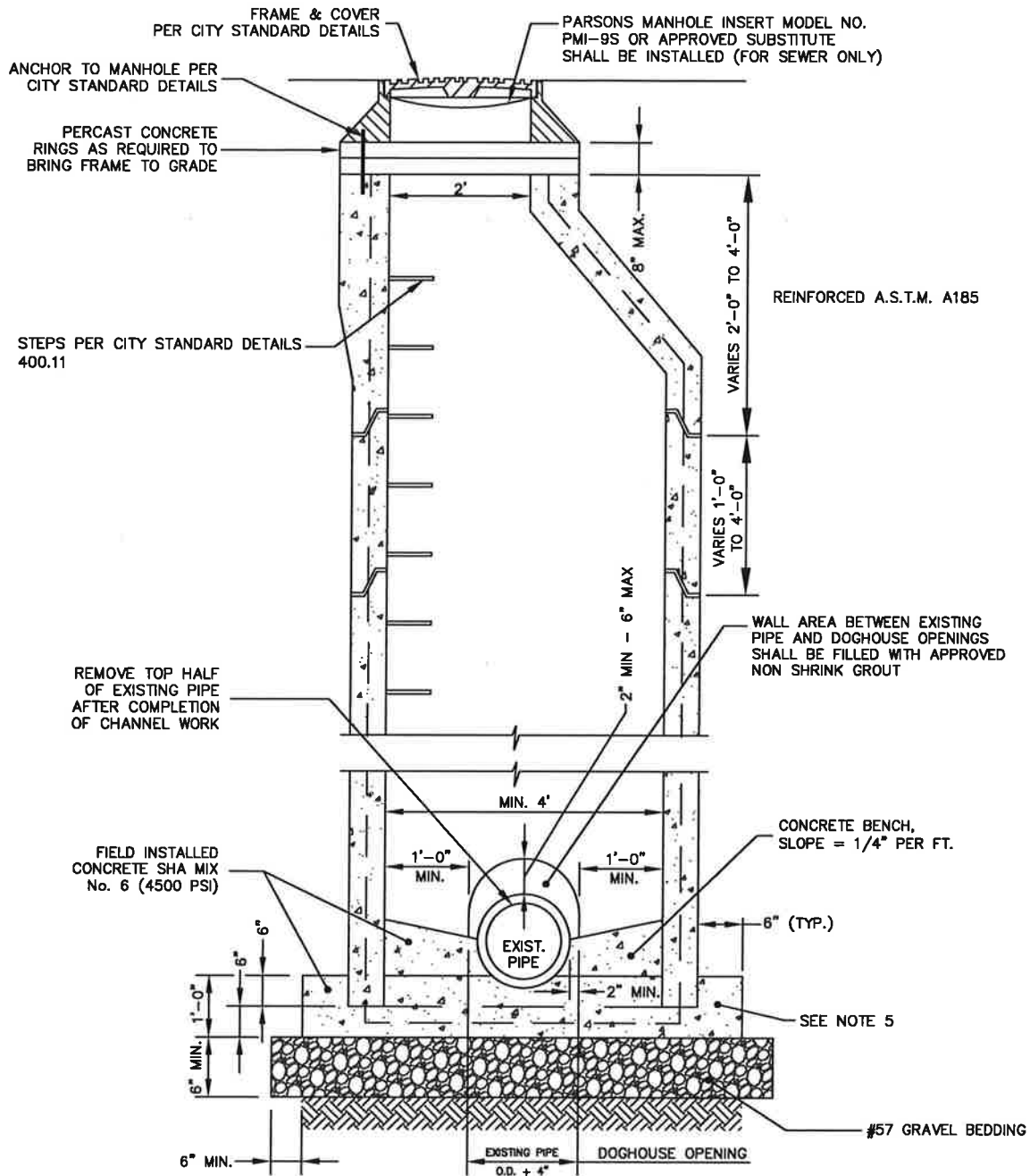
- 10 PLUG VALVE WITH LEVER OPERATOR
- 11 QUICK DISCONNECT FITTING AND CAP
- 12 RUBBER "O" RING GASKET
- 13 POSITION PLUG VALVE AND RISER ASSEMBLY TO PROVIDE MIN. 24" CLEARANCE FROM MANHOLE OPENING TO INVERT OF STRUCTURE.
- 14 PARSONS MANHOLE INSERT MODEL NO. PMI-9S OR APPROVED SUBSTITUTE SHALL BE INSTALLED
- 15 MIN. 6' DIA PRECAST STRUCTURE

MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.



Amanda Pollack
CITY ENGINEER

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

Amanda Pellach
CITY ENGINEER

DATE

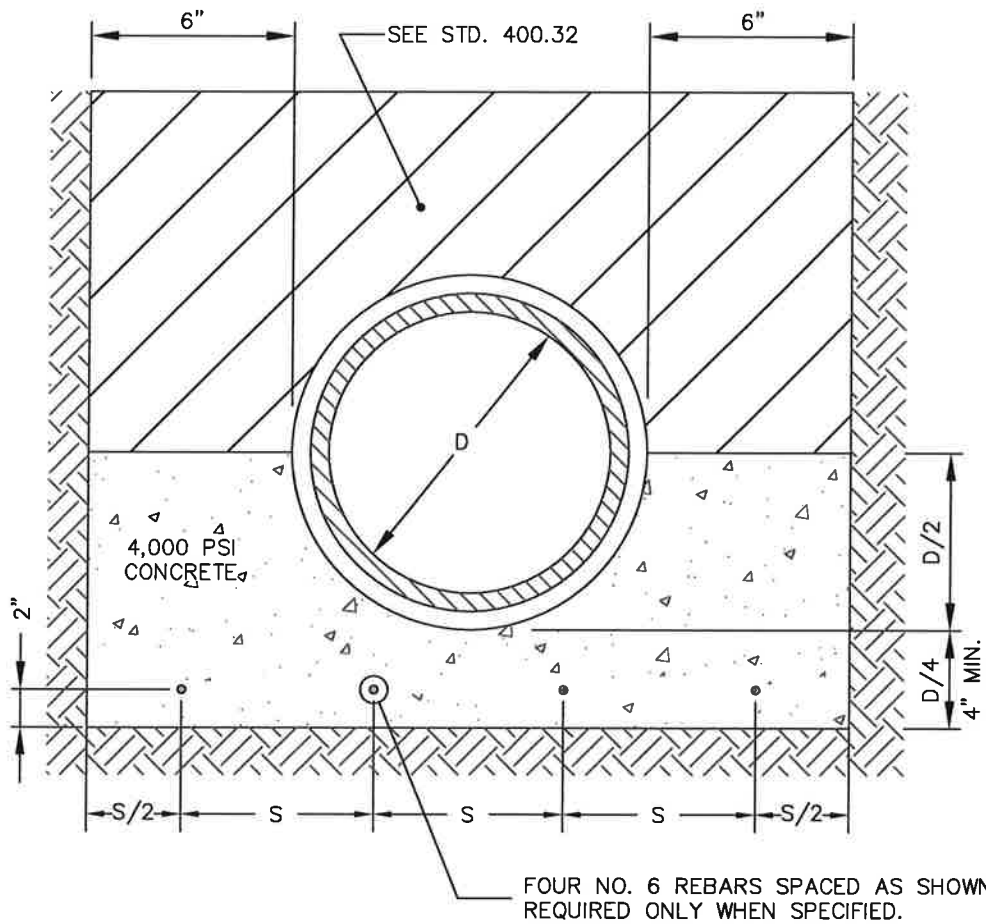
STANDARD DOGHOUSE
MANHOLE
SEWER & STORM WATER

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 Bellack
CITY ENGINEER

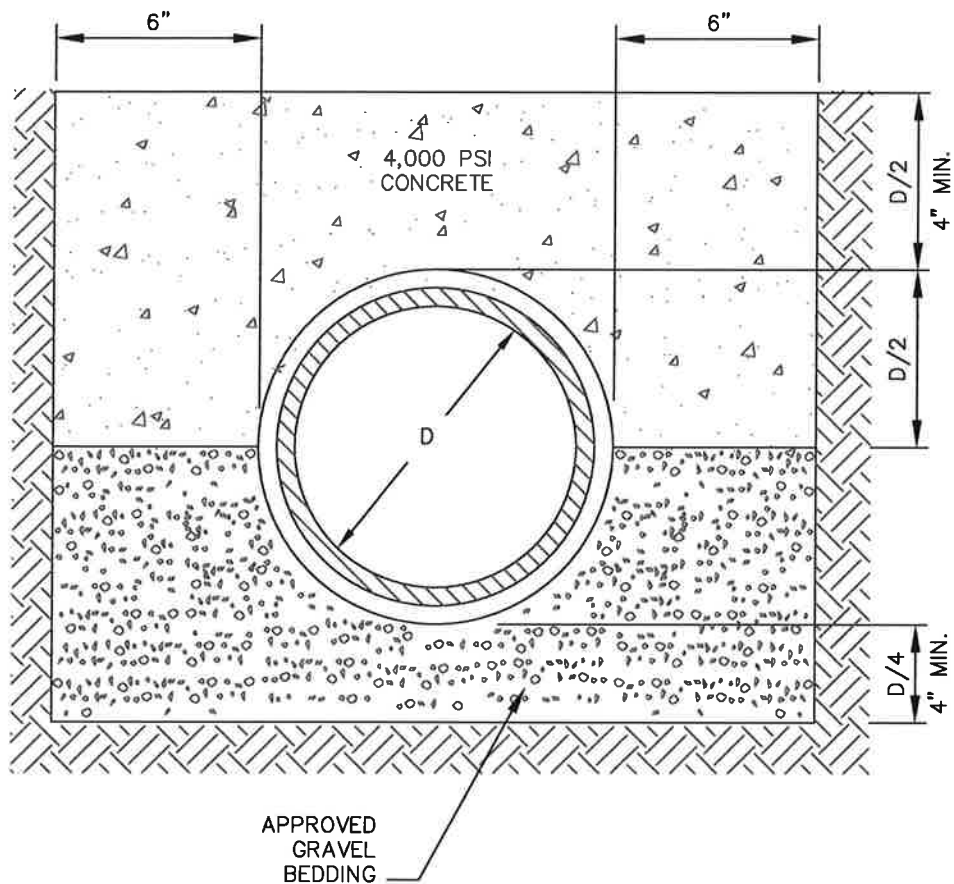
CONCRETE CRADLE
SANITARY SEWER OR
STORMWATER DRAINS

DATE 08/29/86

SCALE NONE

DWG. NO. STD40030

STD. NO. 400.30



CITY OF
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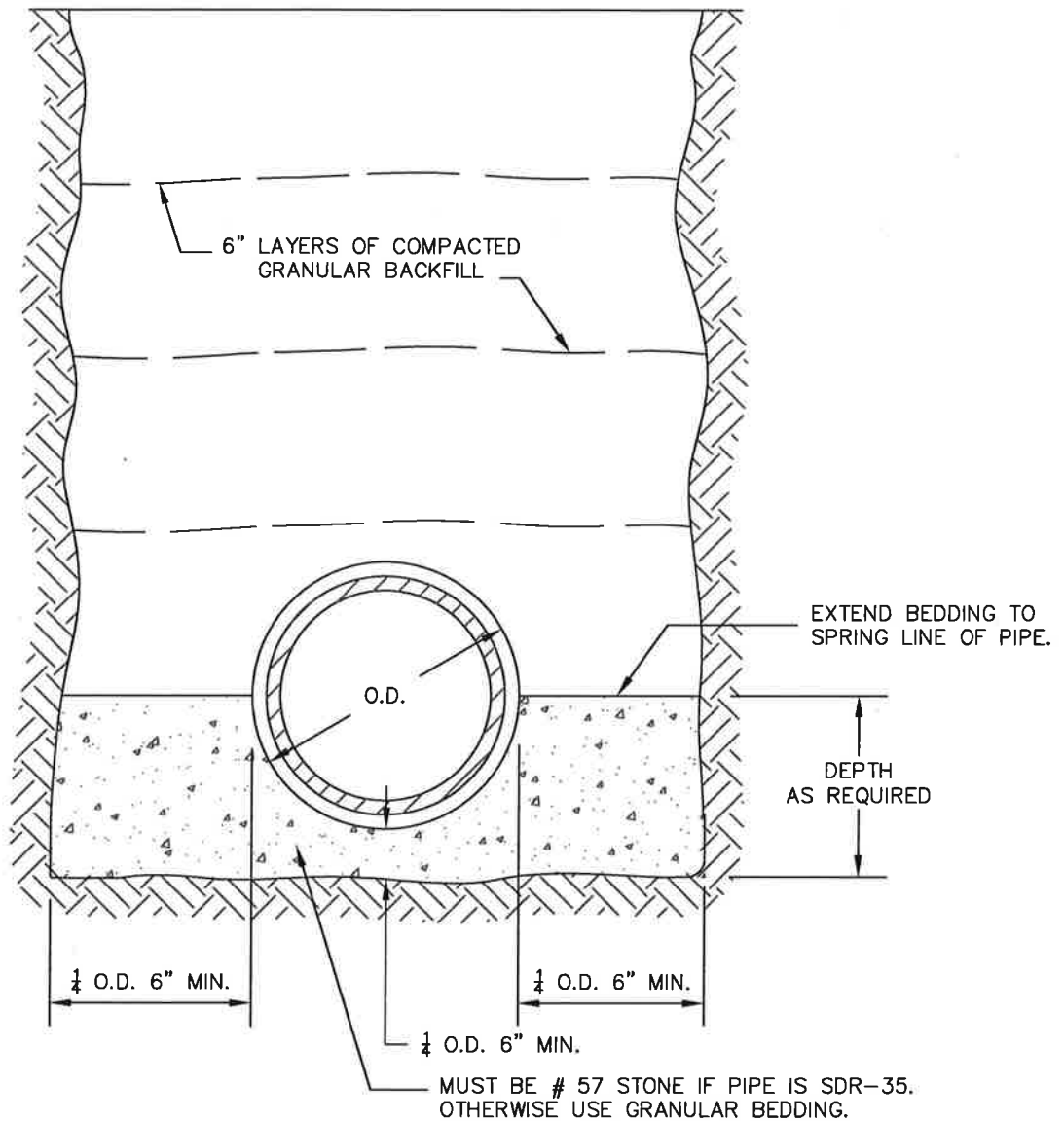
CONCRETE ARCH
SANITARY SEWERS OR
STORMWATER DRAINS

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
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TYPICAL DETAIL
PIPE TRENCH & BEDDING

DATE 8/29/86

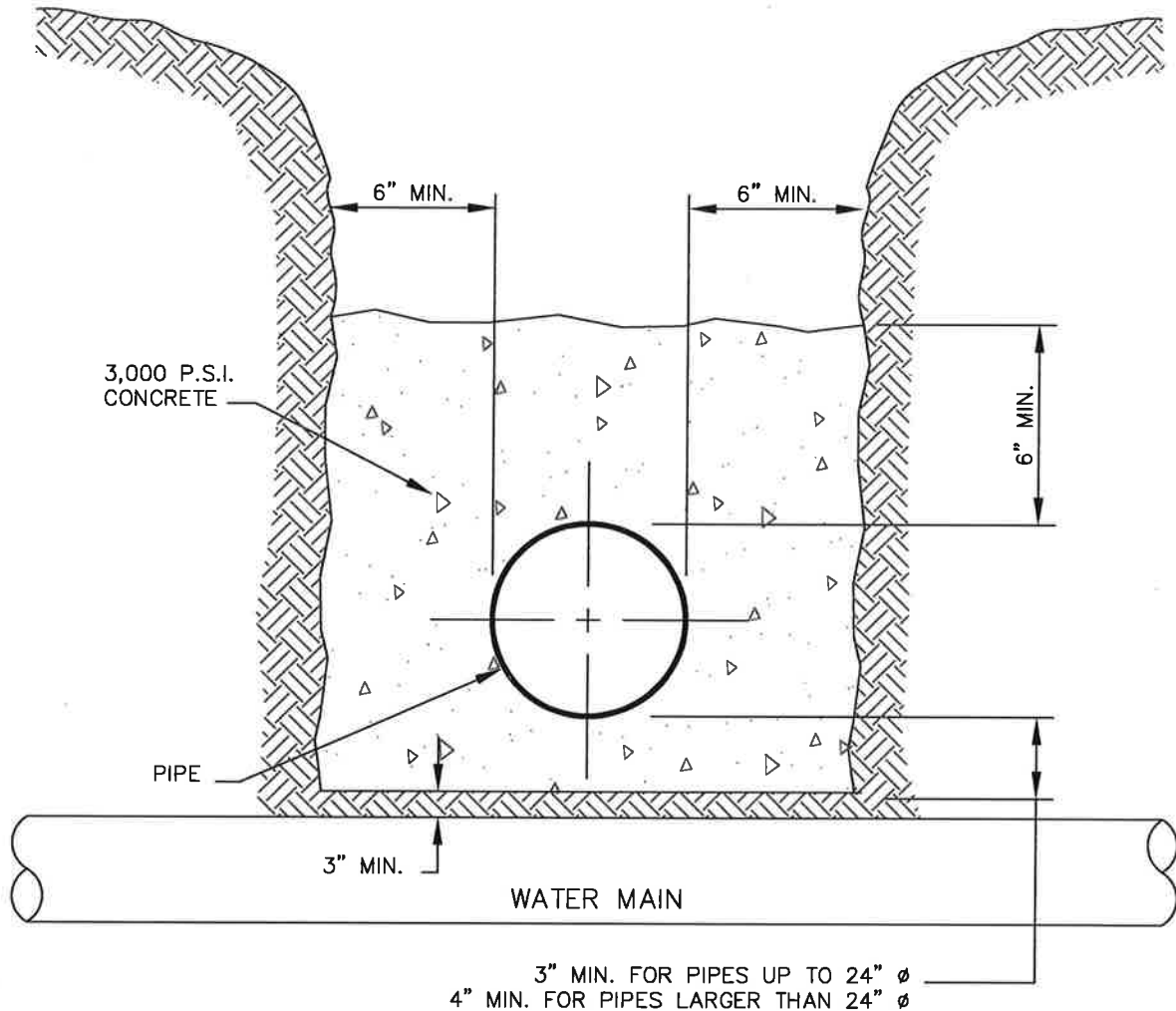
SCALE NONE

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 1 1A.
3. EXTEND ENCASEMENT 10' EITHER SIDE OF WATER MAIN CROSSING.



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DATE

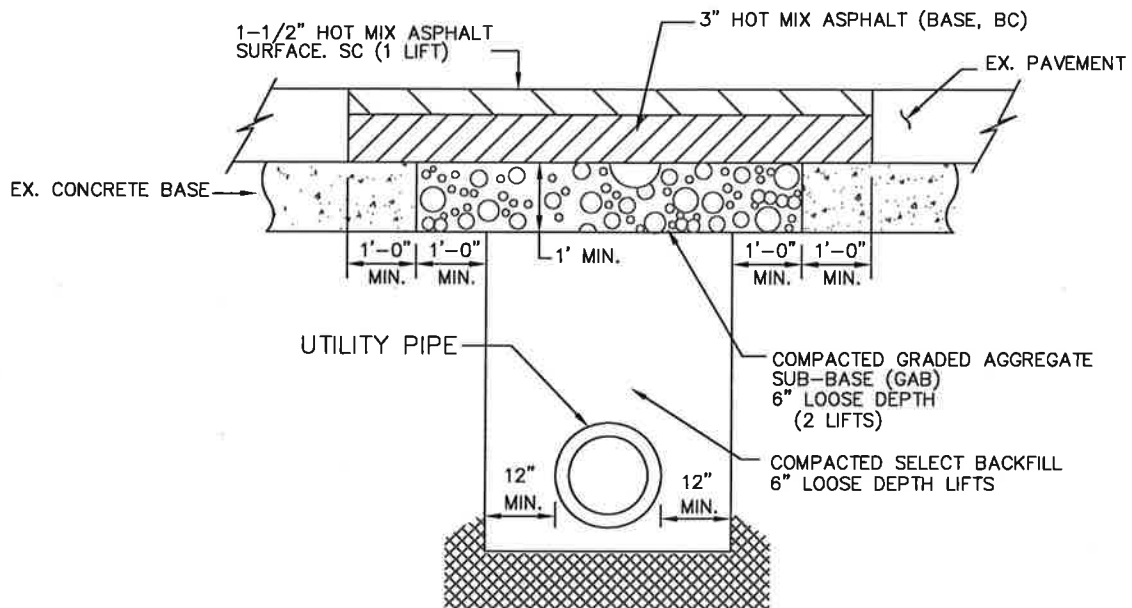
SANITARY SEWER
ENCASEMENT
DETAIL

DATE 02/06/08

SCALE NONE

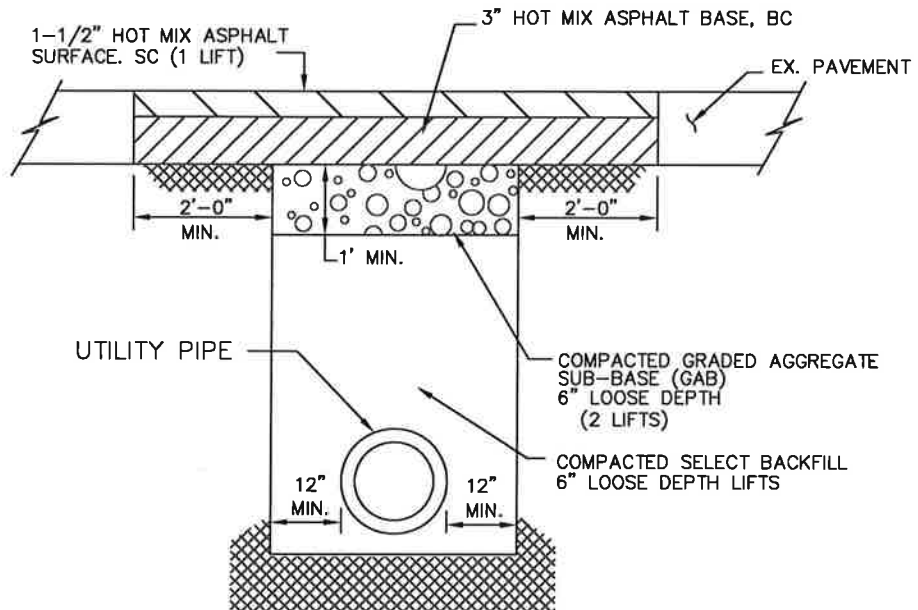
DWG. NO. STD40033

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)

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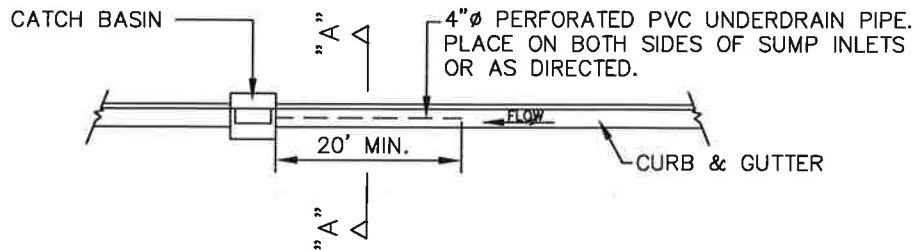
UTILITY TRENCH REPAIR DETAILS

DATE 10/29/98

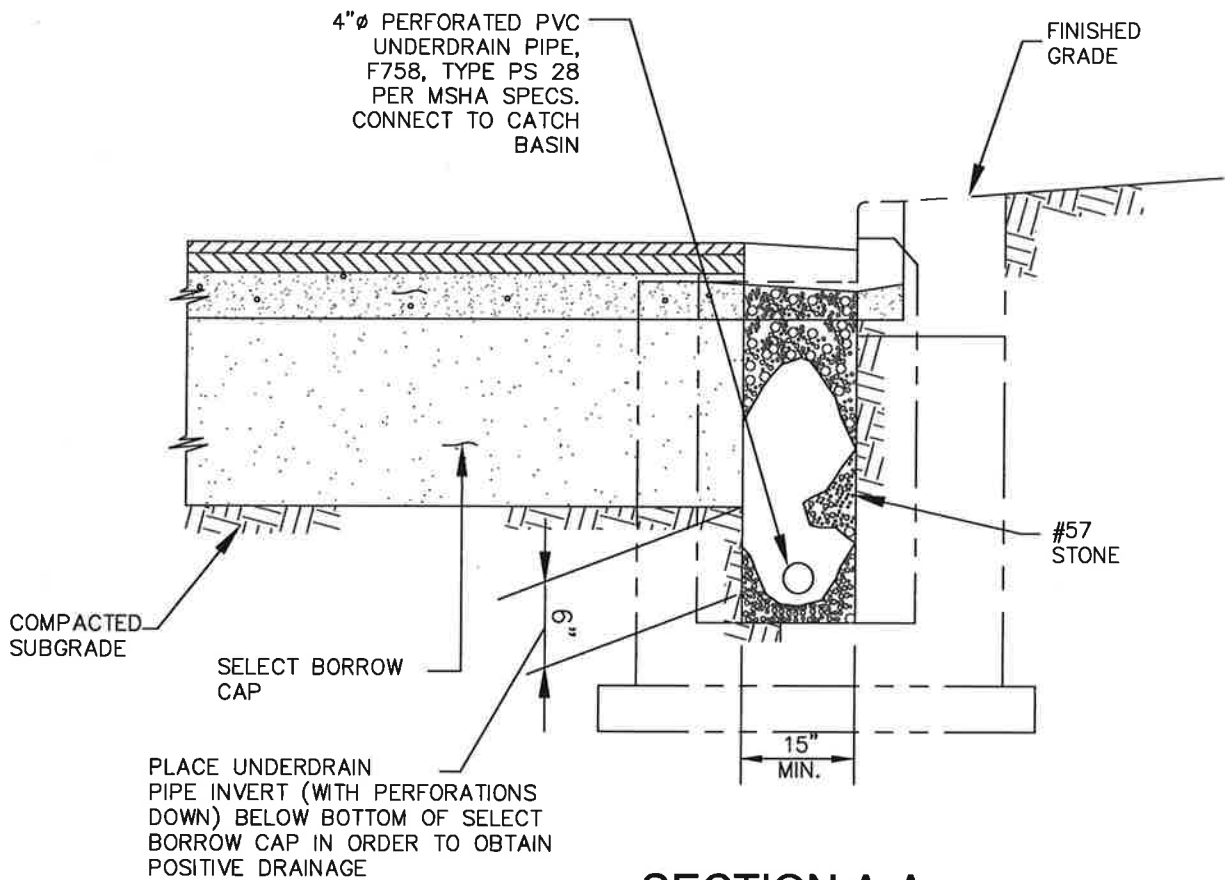
SCALE NONE

DWG. NO. STD40035

STD. NO. 400.35



PLAN
SCALE: 1"=20'



SECTION A-A
SCALE: 1"=2'

CITY OF
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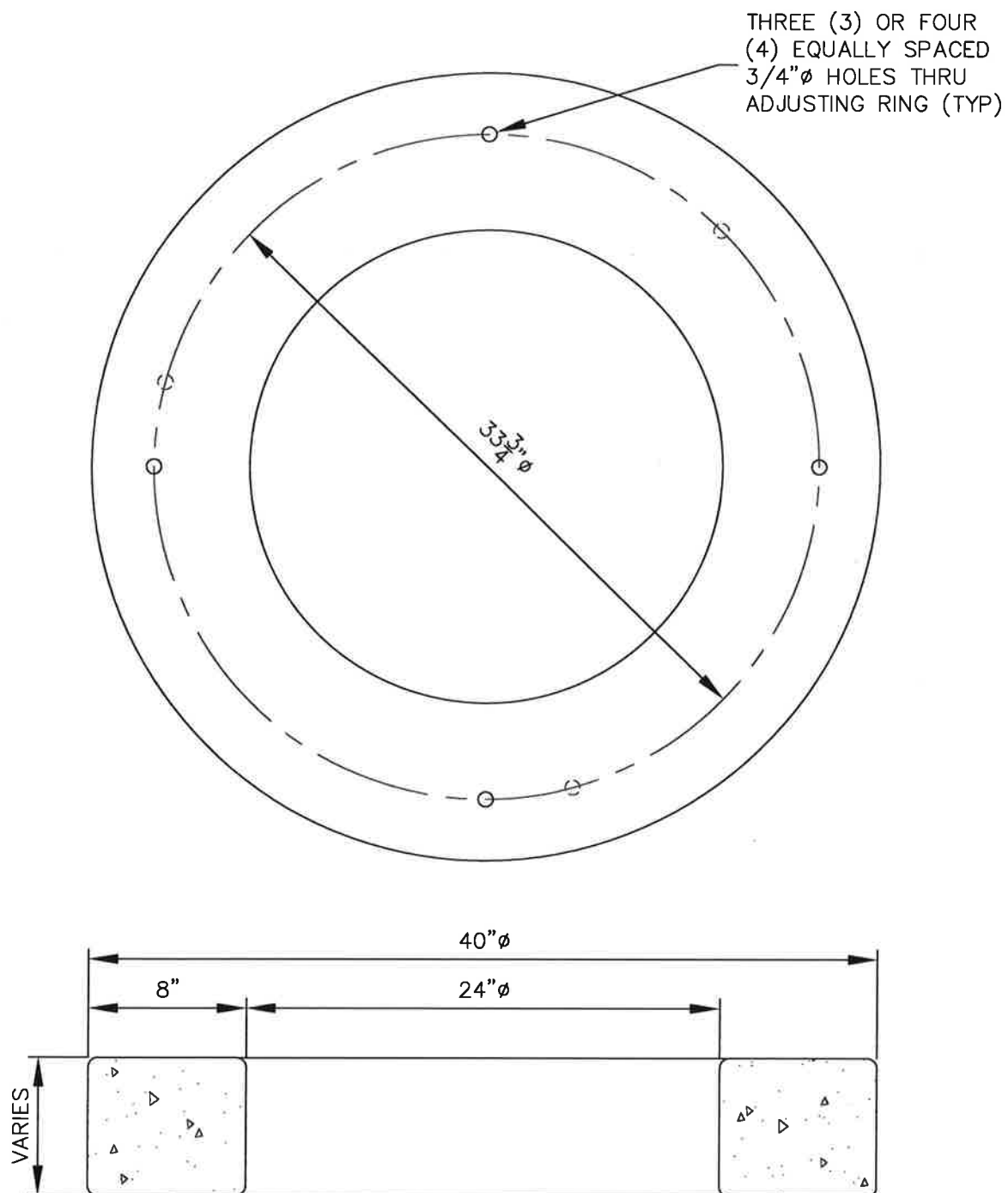
**SUBGRADE
DETAIL**

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 IN²/LF

CITY OF
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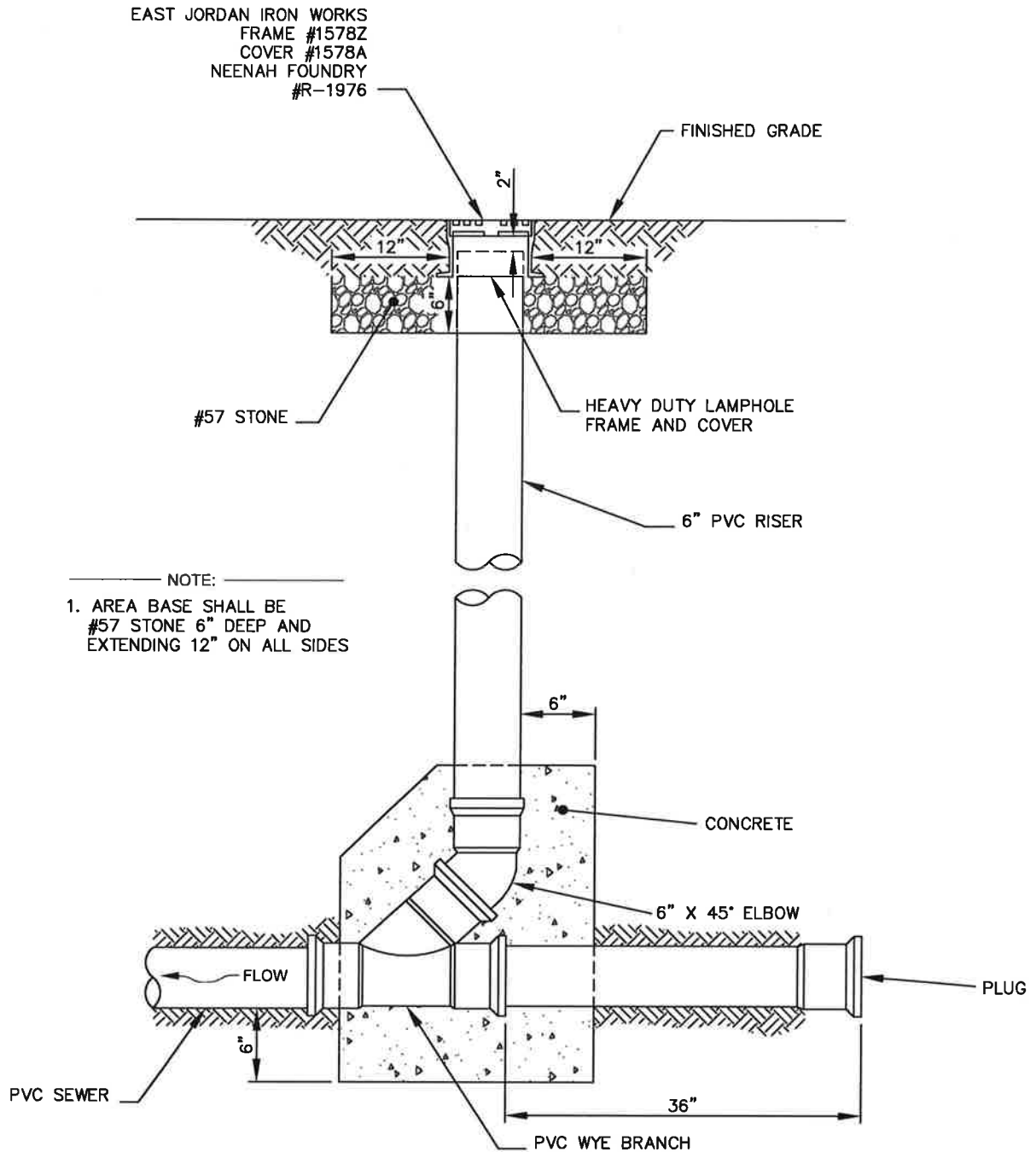
**STANDARD PRECAST
CONCRETE ADJUSTING
RINGS**

DATE 01/01/17

SCALE NONE

DWG. NO. STD40038

STD. NO. 400.38



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
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SALISBURY, MD

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1/2/18

DATE

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CITY ENGINEER

STANDARD CLEANOUT FOR SEWER LINES IN CITY STREETS

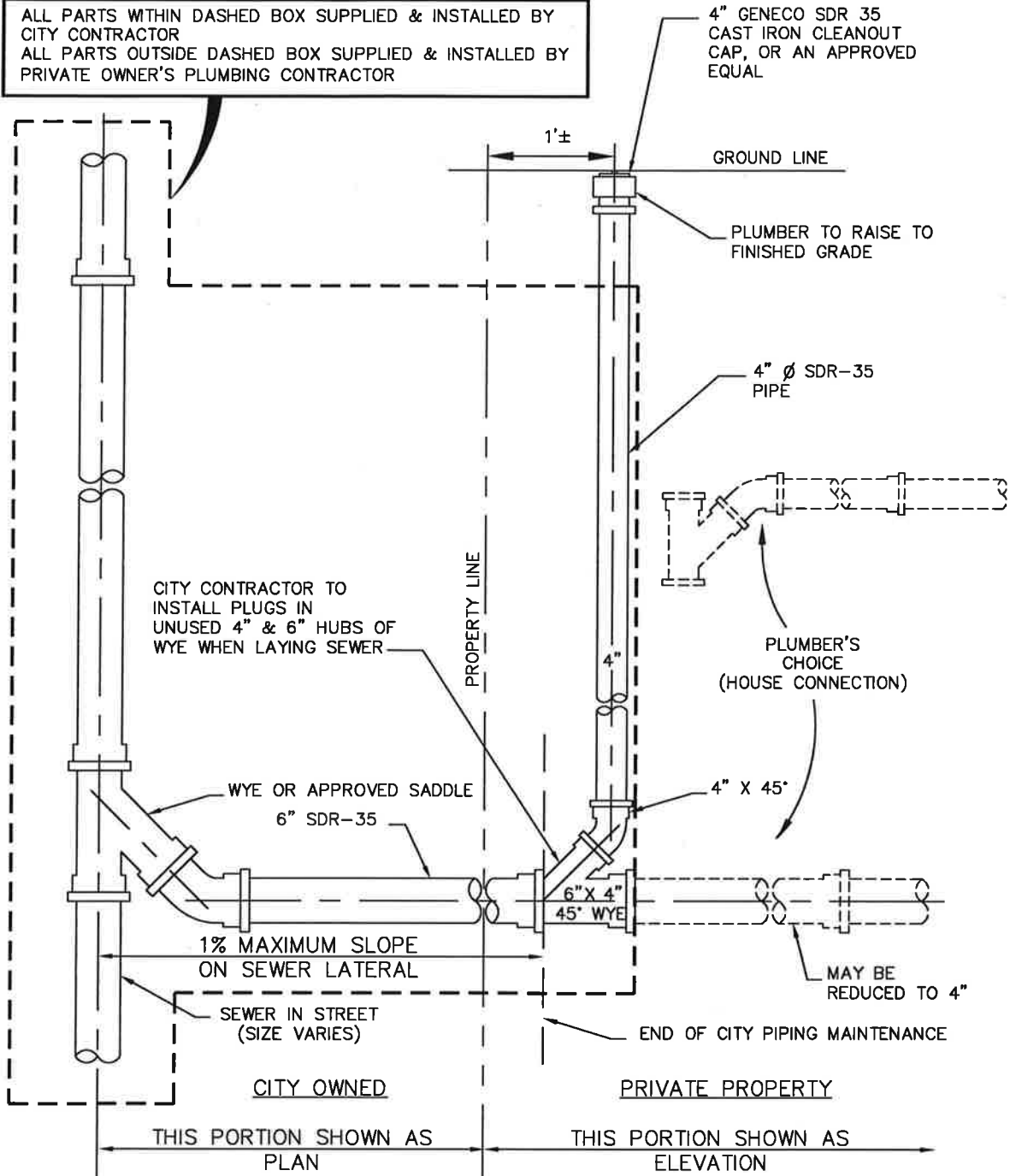
DATE 03/30/94

SCALE NONE

DWG. NO. STD40040

STD. NO. 400.40

ALL PARTS WITHIN DASHED BOX SUPPLIED & INSTALLED BY
CITY CONTRACTOR
ALL PARTS OUTSIDE DASHED BOX SUPPLIED & INSTALLED BY
PRIVATE OWNER'S PLUMBING CONTRACTOR



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
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SALISBURY, MD

APPROVED

1/2/18

DATE
Amanda Pollack
CITY ENGINEER

STANDARD HOUSE SERVICE
SEWER CONNECTION
USING PLASTIC PIPE W/
EXISTING SEWER MAIN

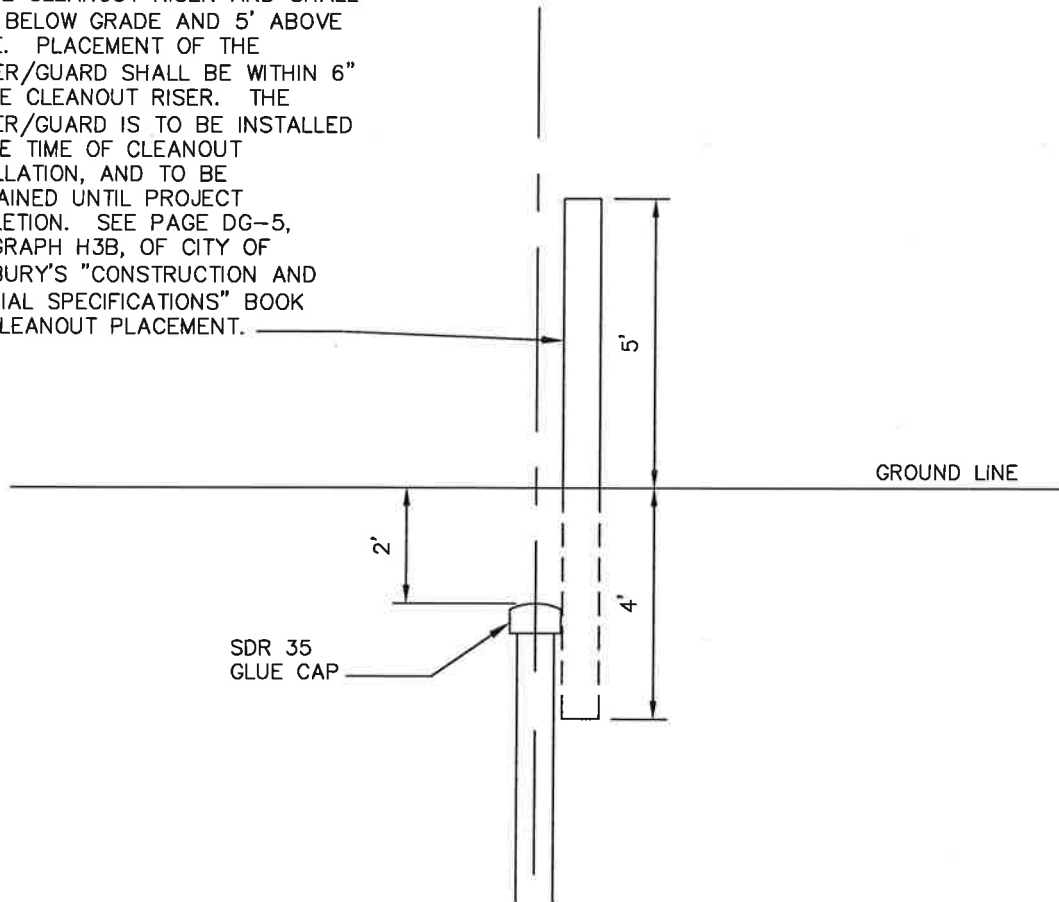
DATE 6/28/06

SCALE NONE

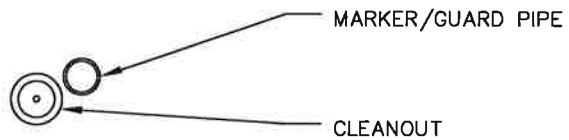
DWG. NO. STD40042

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

Amanda Bellach
CITY ENGINEER

DATE

STANDARD HOUSE SERVICE
SEWER CONNECTION
CLEANOUT GUARD DETAIL

DATE 01/23/06

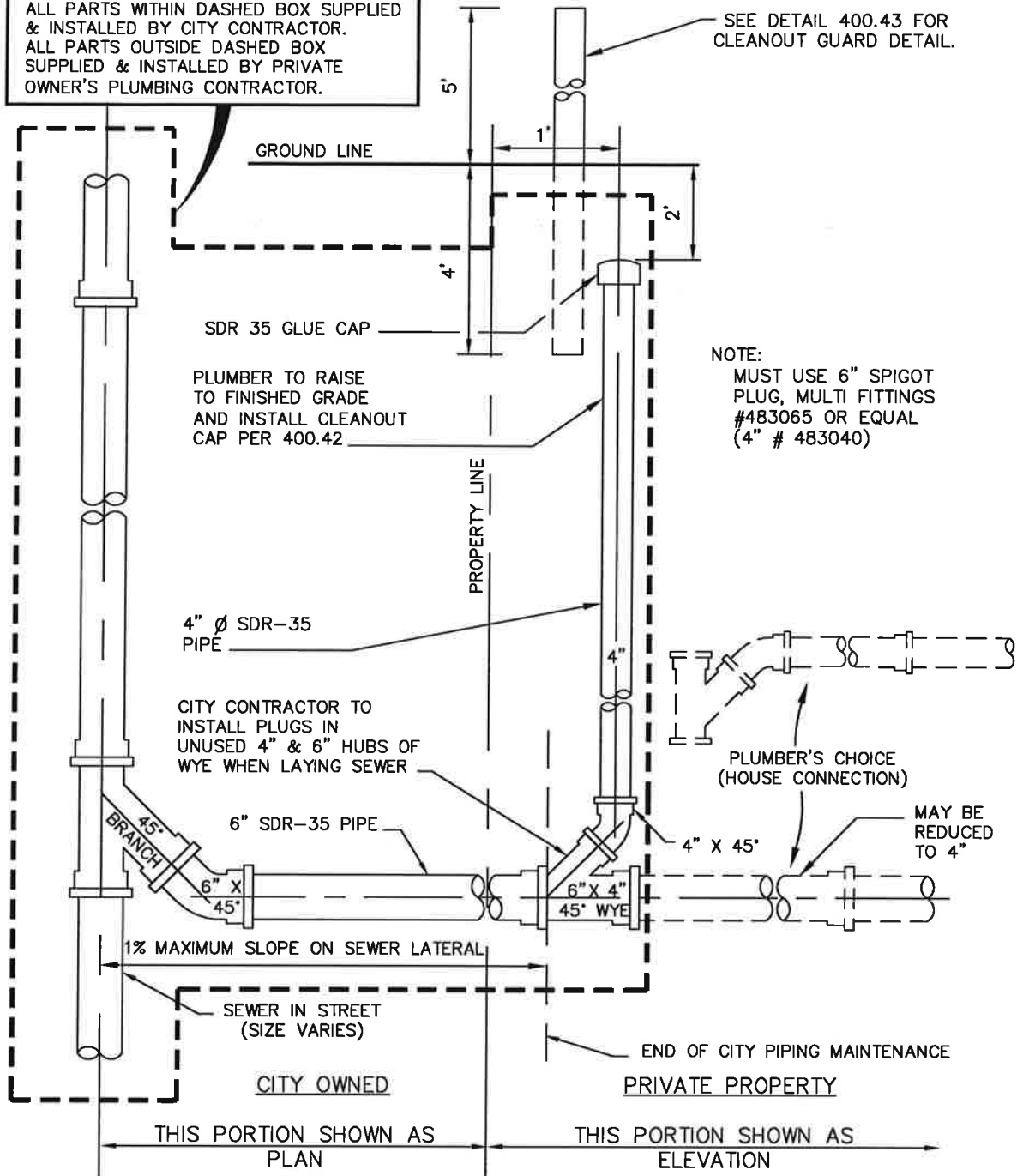
SCALE NONE

DWG. NO. STD40043

STD. NO. 400.43

ALL PARTS WITHIN DASHED BOX SUPPLIED & INSTALLED BY CITY CONTRACTOR.
ALL PARTS OUTSIDE DASHED BOX SUPPLIED & INSTALLED BY PRIVATE OWNER'S PLUMBING CONTRACTOR.

SEE DETAIL 400.43 FOR CLEANOUT GUARD DETAIL.



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
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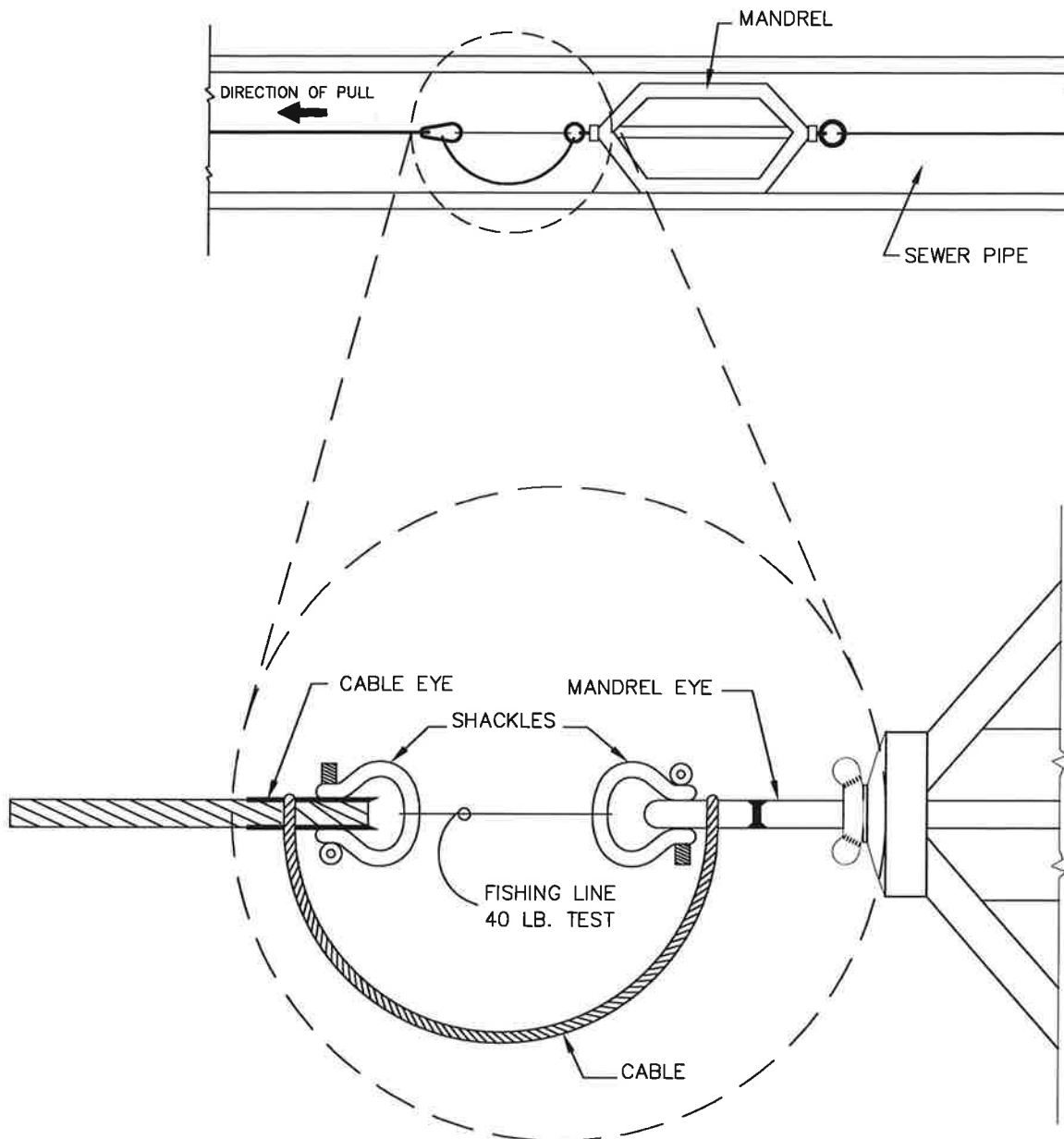
STANDARD HOUSE SERVICE
SEWER CONNECTION
FOR NEW CONSTRUCTION
USING PLASTIC PIPE

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
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1/2/18

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DEFLECTION TEST
MANDREL METHOD

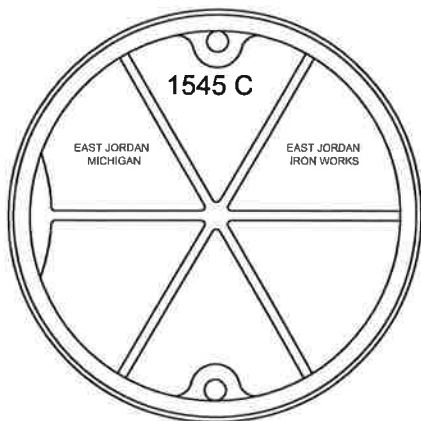
DATE 03/01/12

SCALE NONE

DWG. NO. STD40050

STD. NO. 400.50

NOTE: NOT FOR USE IN PAVED AREAS.



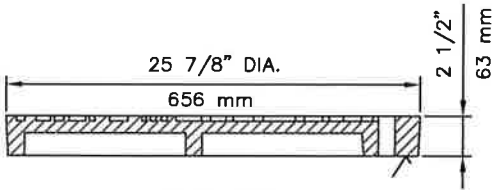
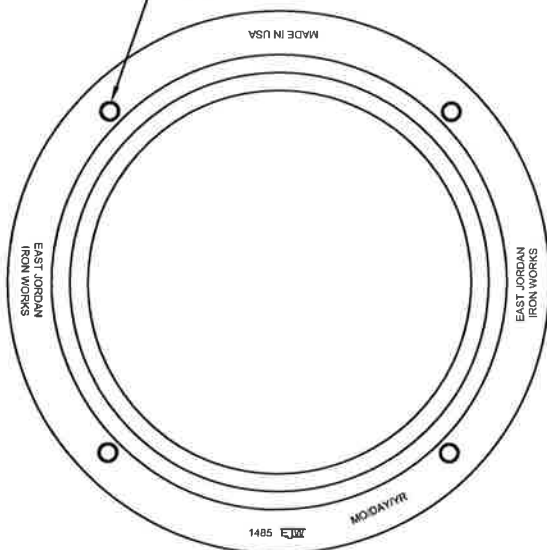
BOTTOM VIEW

EAST JORDAN
FRAME #148510
COVER #154524
OR APPROVED SUBSTITUTE

2 1/2" (64) RAISED LETTERS
(FLUSH WITH TOP)
1 1/8" DIA.
(29 mm) HOLES

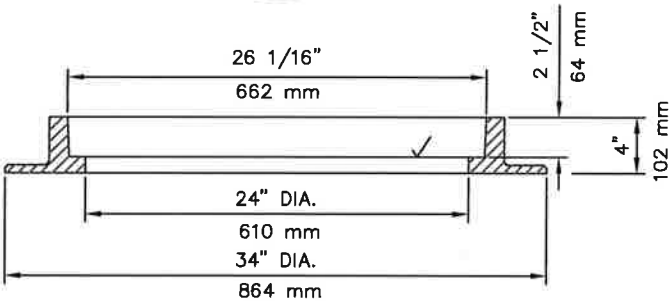


(4) 1" (25 mm) DIA.
HOLES ON 30 1/4" DIA
BOLT CIRCLE

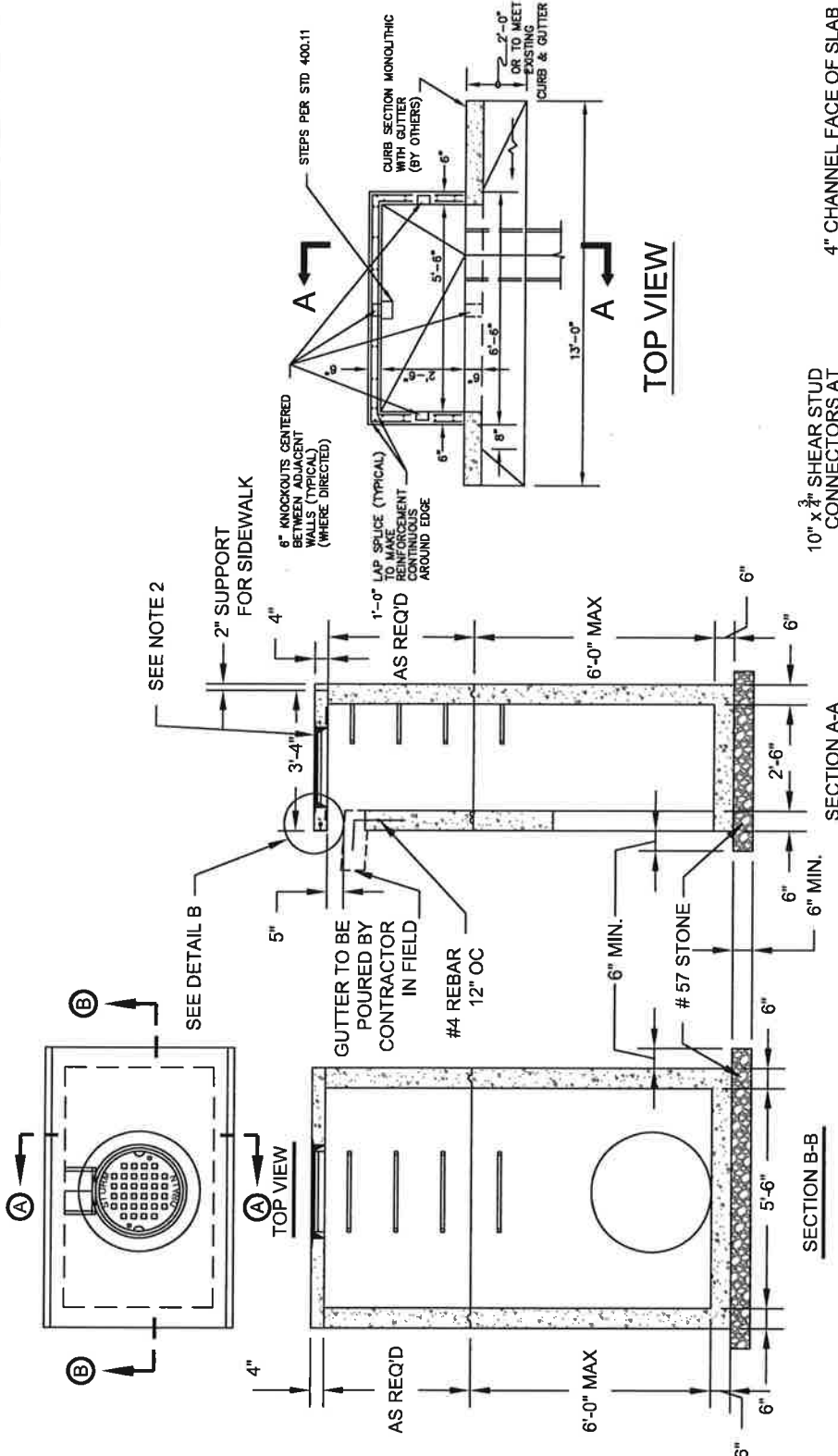


SECTION

✓ MACHINED SURFACE



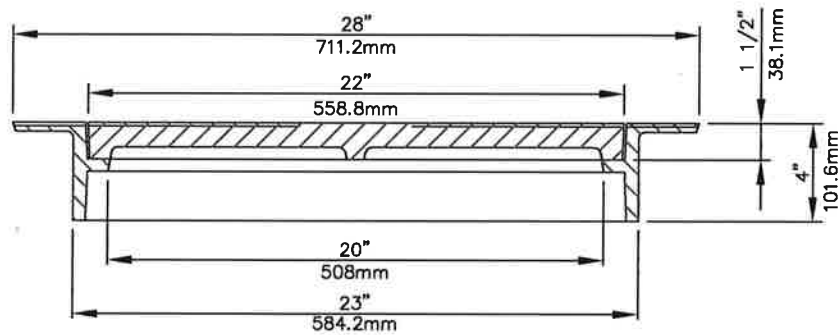
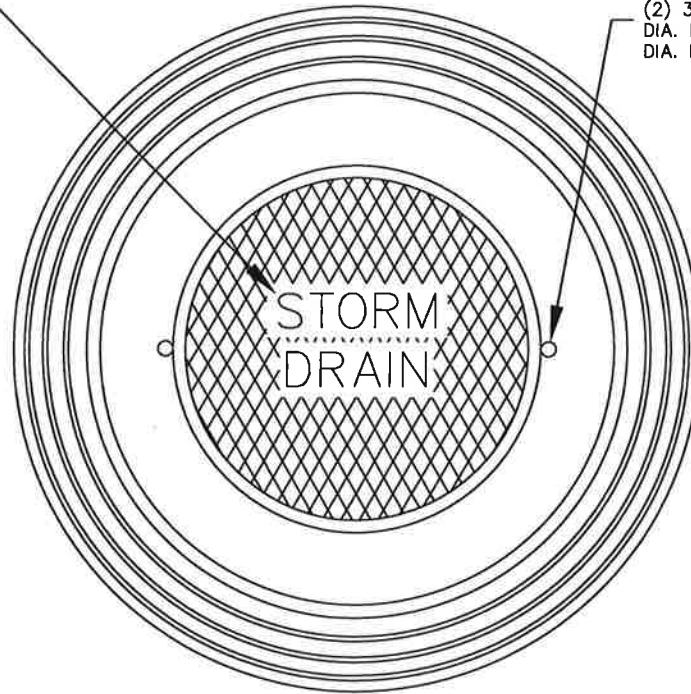
CITY OF SALISBURY SALISBURY, MD	APPROVED		MINIMUM CLEARANCE MANHOLE FRAME & COVER STORMWATER	DATE 7/31/98	
	1/2/18			SCALE NONE	
	Amanda Pellach DATE			DWG. NO. STD50010	
	CITY ENGINEER			STD. NO. 500.10	



CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/2/18</i> <i>Amanda Pollack</i> CITY ENGINEER	DATE <i>1/2/18</i>	TYPE "A-1" INLET	DATE 1/27/10
	SCALE NONE			
	DWG. NO. STD50045			
	STD. NO. 500.45			

2" (50.8mm) LETTERS
(RECESSED FLUSH)

(2) 3/4" (19.1mm)
DIA. HOLES ON 18" (457.2mm)
DIA. BOLT CIRCLE



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

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

CITY OF
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APPROVED

1/2/18
Amanda Pollock DATE
CITY ENGINEER

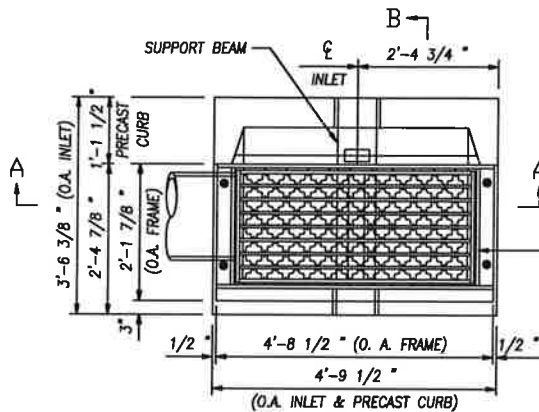
SIDEWALK FRAME & COVER
TYPE "A-1" & "B-1" INLETS

DATE 7/27/98

SCALE NONE

DWG. NO. STD50046

STD. NO. 500.46



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

SUPPORT BEAM ANCHORAGE
CONCRETE MIX. NO.6 (TO BE
CAST IN FIELD)

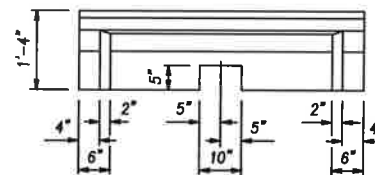
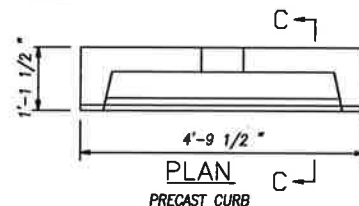
5/8"Ø ANCHOR BOLT,
4 PER FRAME

LADDER RUNGS
PER SPW
STANDARD DETAIL

INVERT TO BE CONCRETE
SLOPE 2" PER FOOT TOWARD
OUTLET OR AS DIRECTED.
(TO BE PROVIDED IN FIELD)

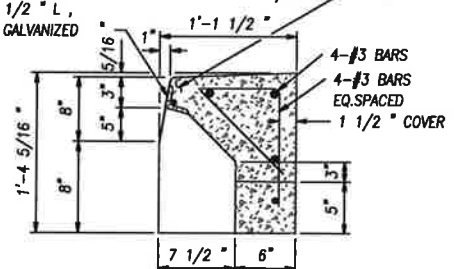
SECTION A-A

LAP SPLICE TO MAKE REINFORCING
CONTINUOUS AROUND OUTSIDE CORNER.

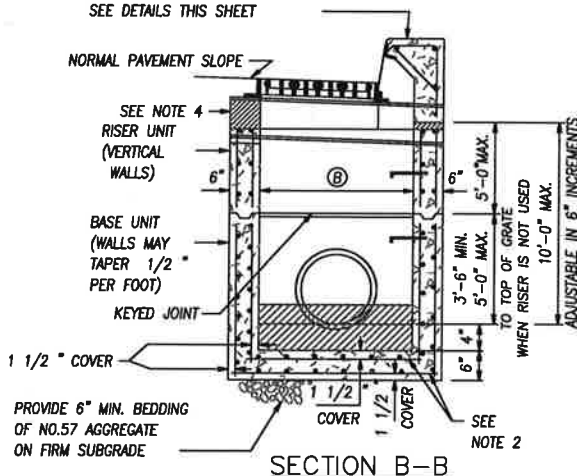


2 1/2" x 2 1/2" x 1/2" L,
4'-9 1/2" LONG. GALVANIZED

#3 ANCHOR BARS
WELDED TO L Ø
18" C/C.



PRECAST CURB
SEE DETAILS THIS SHEET



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
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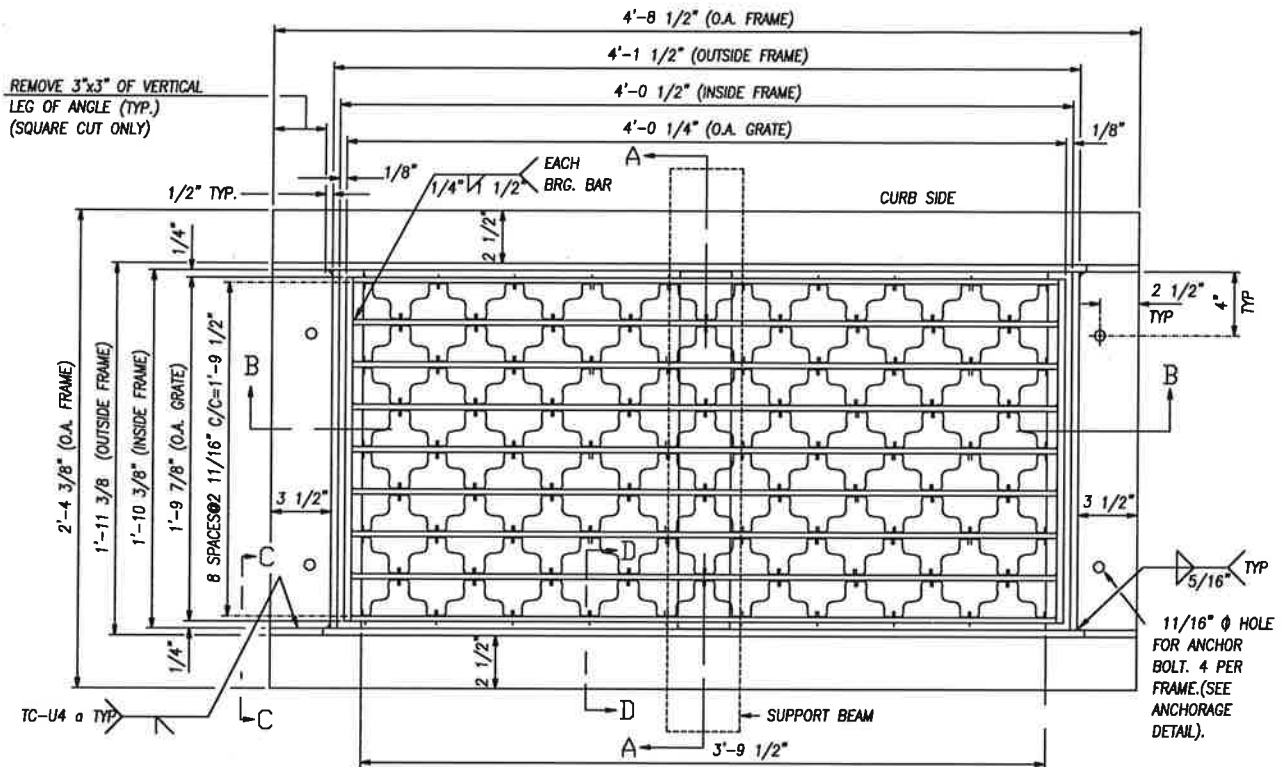
PRECAST NR INLET OPEN AND CLOSED THROAT

DATE 11/19/09

SCALE NONE

DWG. NO. STD50052

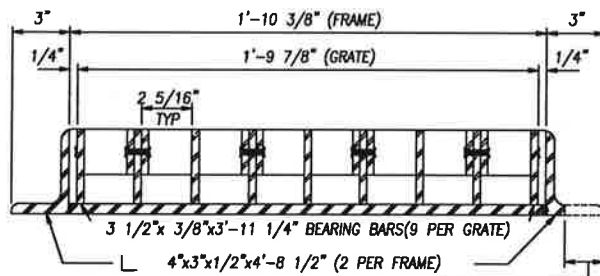
STD. NO. 500.52



PLAN

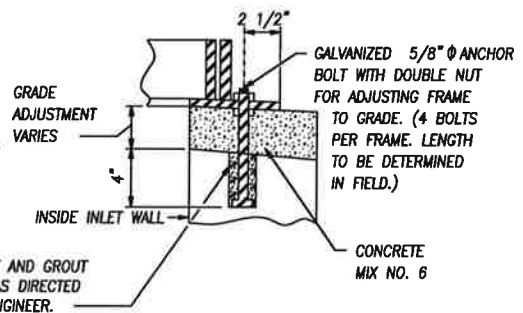
GENERAL NOTES

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.

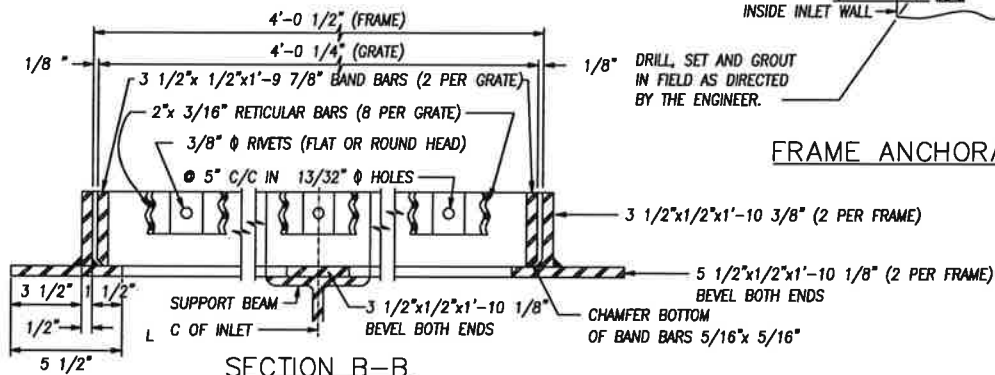


SECTION A-A

USE 4"x 1/2" FLAT BAR WHEN OPEN FACED CURB IS USED.



FRAME ANCHORAGE DETAIL



SECTION B-B

CITY OF
SALISBURY
SALISBURY, MD

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1/2/18

Amanda Pollack
CITY ENGINEER

STANDARD NR INLET
FRAME & GRATE

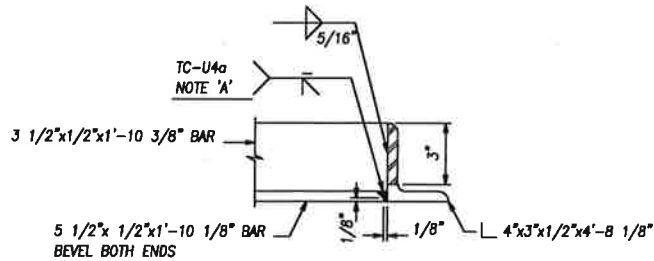
DATE 2/19/10

SCALE N.T.S.

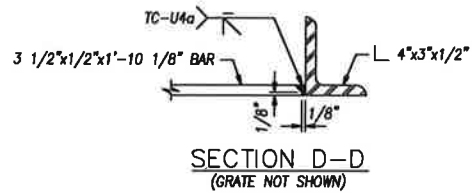
DWG. NO. STD50053

STD. NO. 500.53

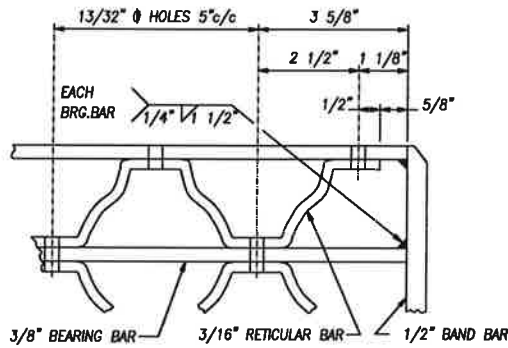
NOTE 'A' - WELD 5 1/2"x1/2" BAR TO 4"x3"x1/2" L
BEFORE WELDING 3 1/2"x1/2" BAR



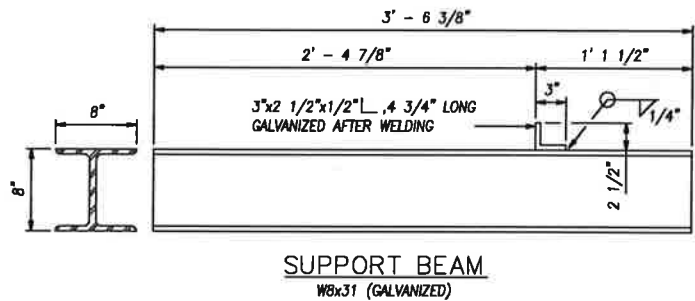
SECTION C-C



SECTION D-D
(GRATE NOT SHOWN)



GRATING DETAIL



SUPPORT BEAM
W8x31 (GALVANIZED)

CITY OF
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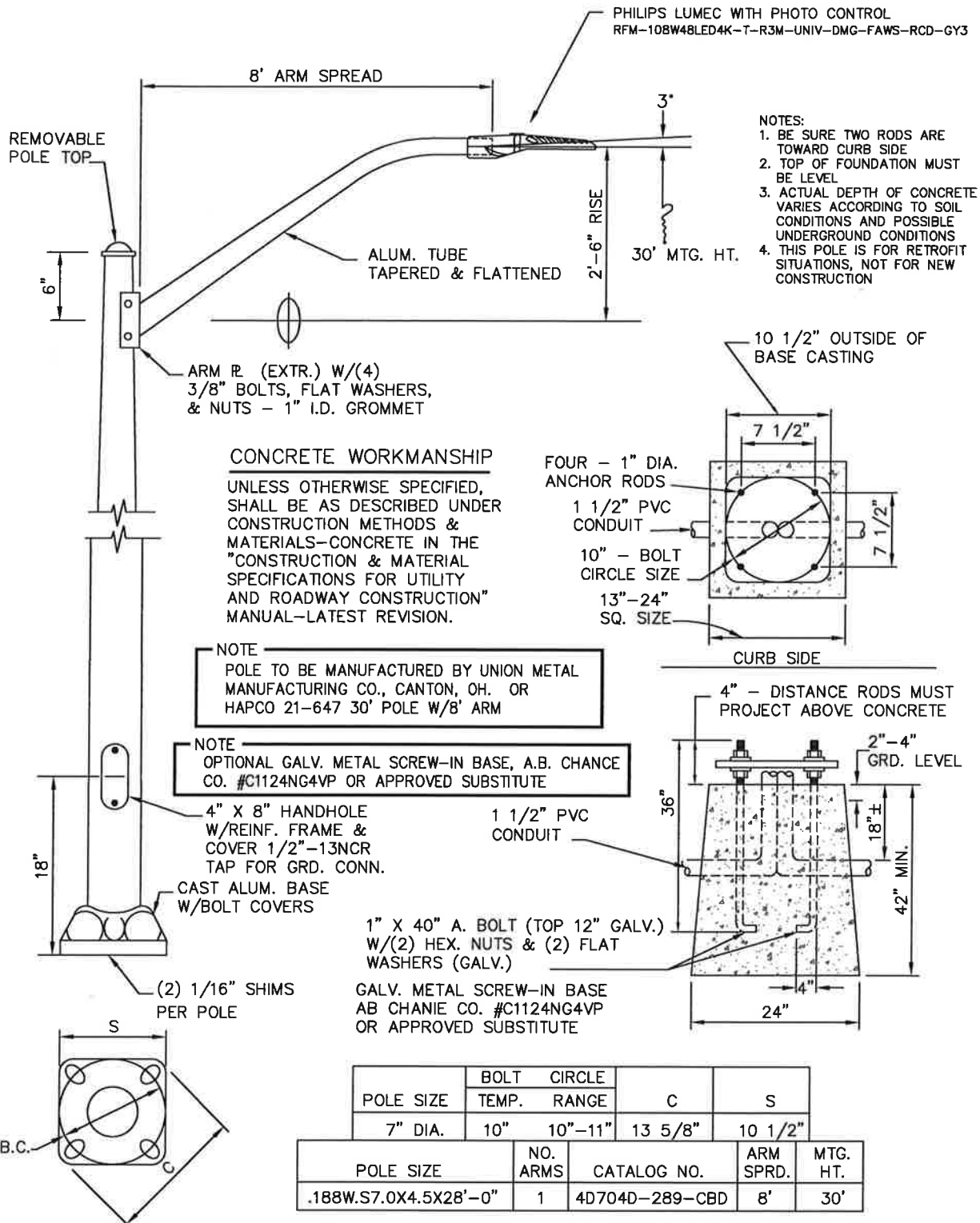
STANDARD NR INLET FRAME, GRATE
AND SUPPORT BEAM DETAILS

DATE 2/19/10

SCALE N.T.S.

DWG. NO. STD50054

STD. NO. 500.54



CITY OF
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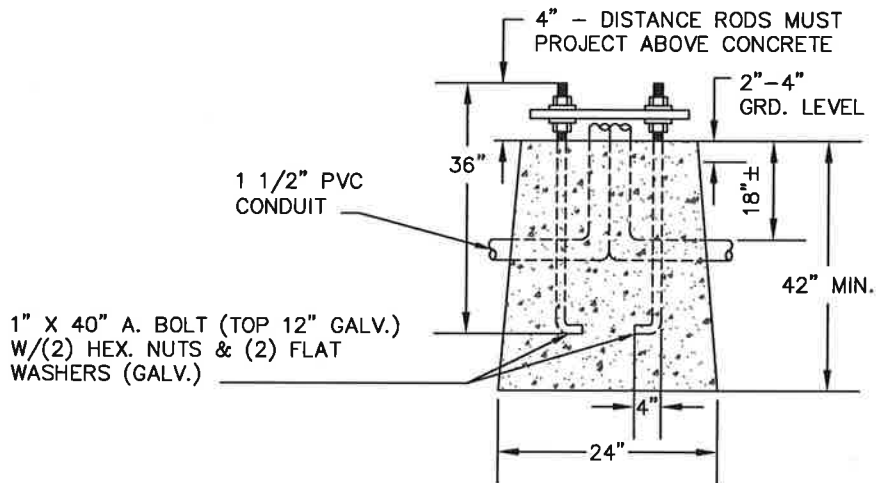
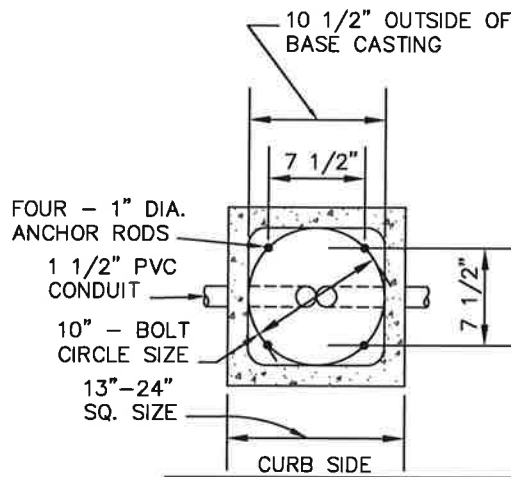
LED COBRA HEAD LIGHTING POLE & FOUNDATION

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
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SALISBURY, MD

APPROVED

1/2/18

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CITY ENGINEER

FOUNDATION FOR LIGHTING POLE

DATE 11/17/15

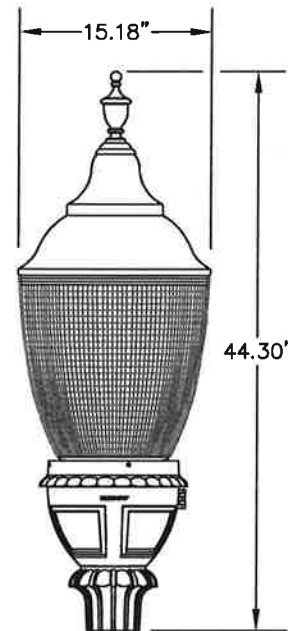
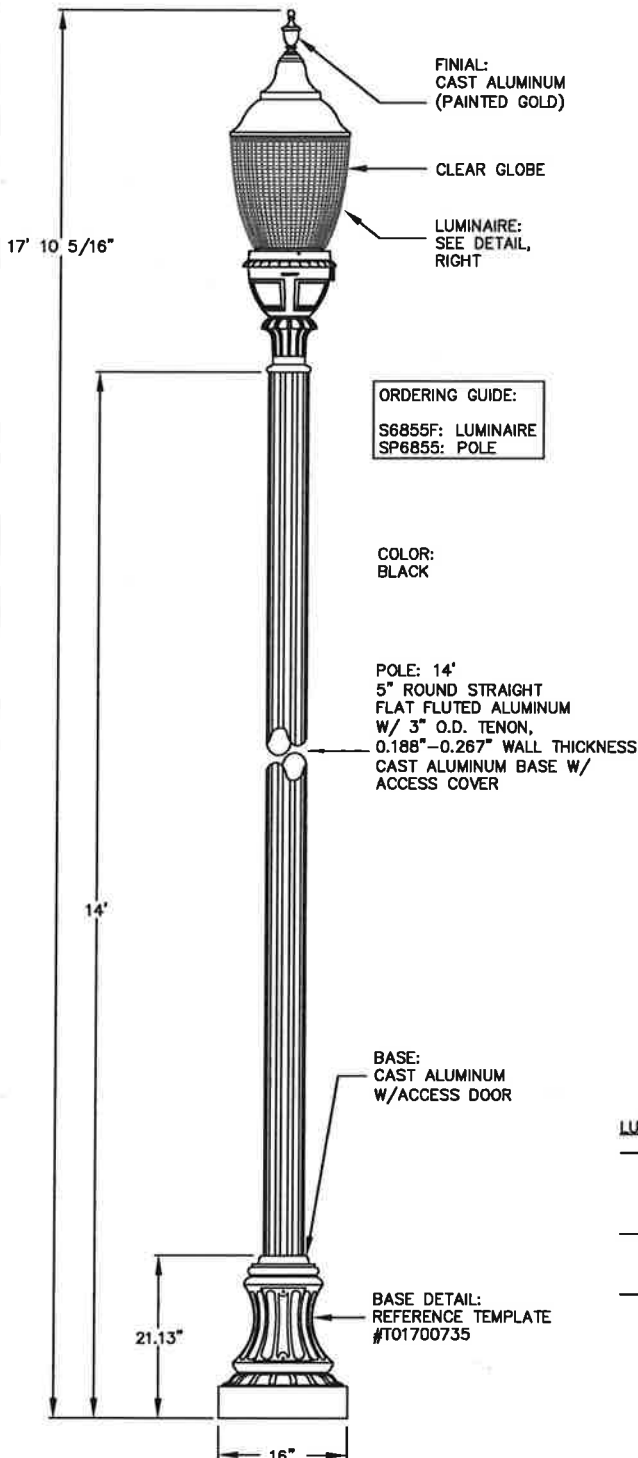
SCALE NONE

DWG. NO. STD60002

STD. NO. 600.02

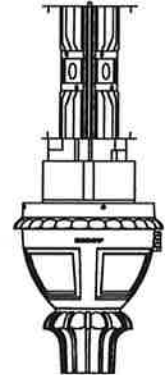
NOTICE:
THIS DRAWING IS FOR REFERENCE
ONLY. CHECK FOR LATEST REVISION
PRIOR TO ORDERING

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



LUMINAIRE DETAIL

TOP VIEW
LUMILOCK L.E.D.
ASSEMBLY



FASTENERS:

- ☒ ALLEN HEAD BOLTS
- ☐ HEX HEAD BOLTS

COLOR:

- ☒ BLACK
- ☐ HEX HEAD BOLTS

PHOTO CONTROL:

- ☐ 120V BUTTON EYE
- ☐ 208V/240V/277V BUTTON EYE
- ☐ 347V BUTTON EYE
- ☐ TWIST-LOCK RECEPTACLE
- ☒ 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
- ☒ 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 SUPPRESSION.
- 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 Pelach
CITY ENGINEER

RESIDENTIAL ROAD
ORNAMENTAL
LIGHT FIXTURE

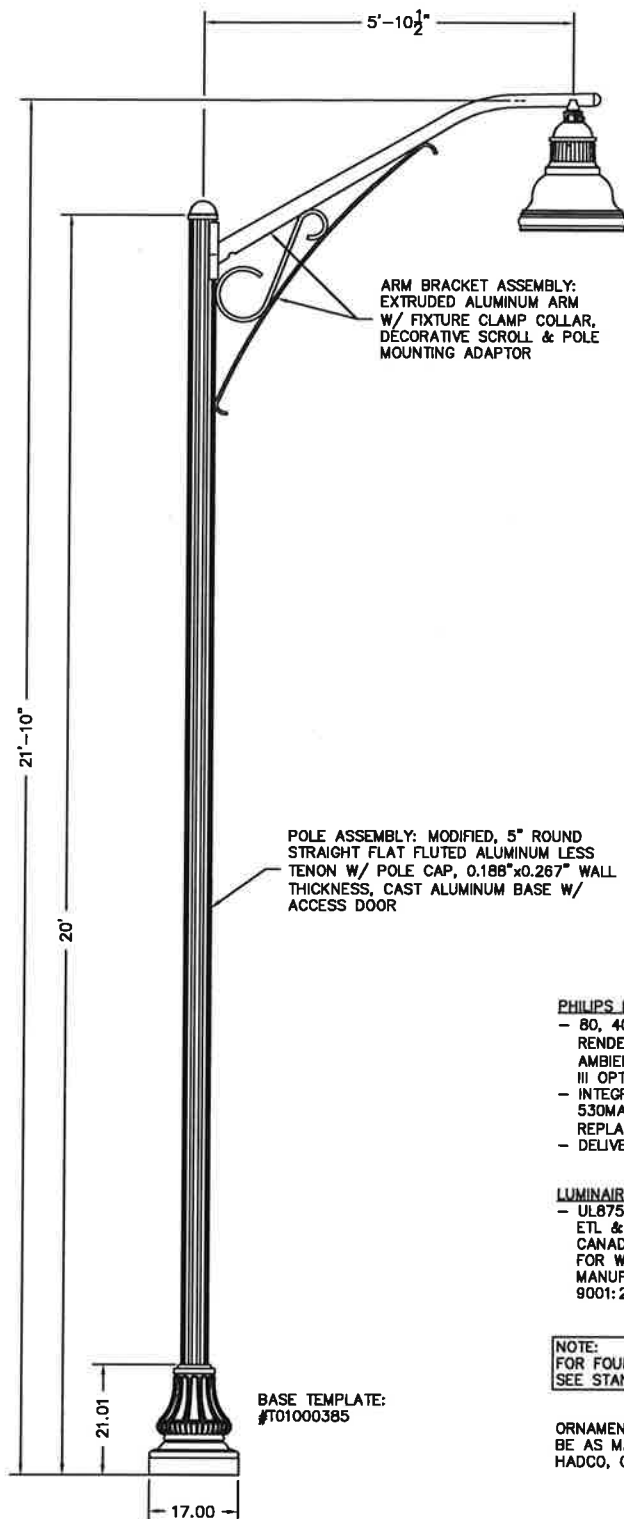
DATE 11/17/15

SCALE NTS

DWG. NO. STD60004

STD. NO. 600.04

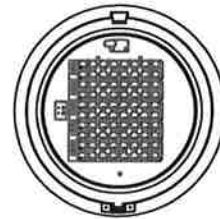
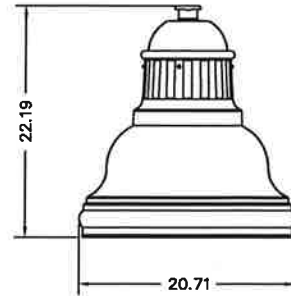
NOTICE:
THIS DRAWING IS FOR REFERENCE ONLY. CHECK
FOR LATEST REVISION PRIOR TO ORDERING



ARM BRACKET ASSEMBLY:
EXTRUDED ALUMINUM ARM
W/ FIXTURE CLAMP COLLAR,
DECORATIVE SCROLL & POLE
MOUNTING ADAPTOR

POLE ASSEMBLY: MODIFIED, 5" ROUND
STRAIGHT FLAT FLUTED ALUMINUM LESS
TENON W/ POLE CAP, 0.188"x0.267" WALL
THICKNESS, CAST ALUMINUM BASE W/
ACCESS DOOR

BASE TEMPLATE:
#T01000385



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
X NONE

OPTIONS:
X FLUTED SPINNING
_ NONE

PHILIPS LEDGNE 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 PHILIPS
HADCO, OR APPROVED SUBSTITUTE

CITY OF
SALISBURY
SALISBURY, MD

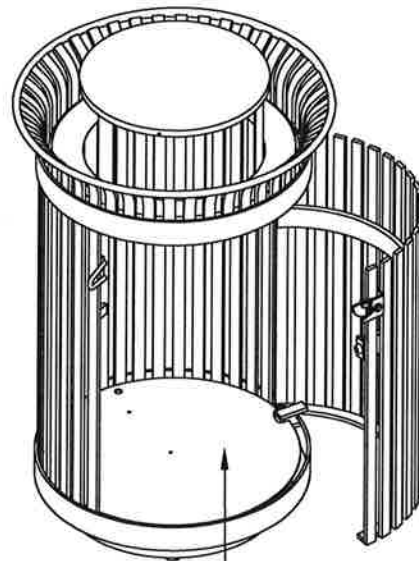
APPROVED
1/2/18
DATE
Amanda Pollack
CITY ENGINEER

COLLECTOR ROAD
ORNAMENTAL
LIGHT FIXTURE

DATE 5/30/06
SCALE NONE
DWG. NO. STD60005
STD. NO. 600.05

VS SD-42 RECEPTACLE

36-GALLON
CAPACITY HIGH
DENSITY PLASTIC
LINER (WEIGHT NOT
TO EXCEED 6 LBS)



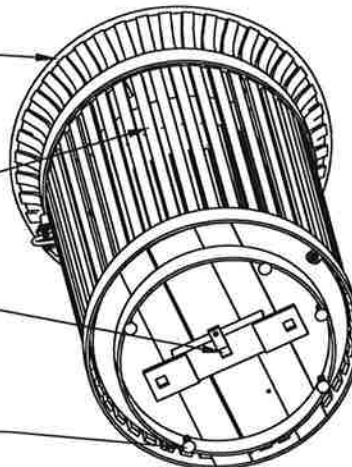
ABS PLASTIC BOTTOM
PLATE COVER SITS ON TOP
OF 1/4" x 2" SUPPORT BARS

5/8" SOLID STEEL
TOP RING

3/8" x 1" VERTICAL
STEEL BARS

3/4" SQUARE ANCHOR
BOLT HOLES

LEVELING FEET
WITH A 3/8" Ø
THREADED STEEL
SHAFT



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). ALL FASTENERS TO BE STAINLESS STEEL AND TAMPER RESISTANT

6. 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
Amenda Pollack
CITY ENGINEER

STANDARD TRASH
RECEPTACLE

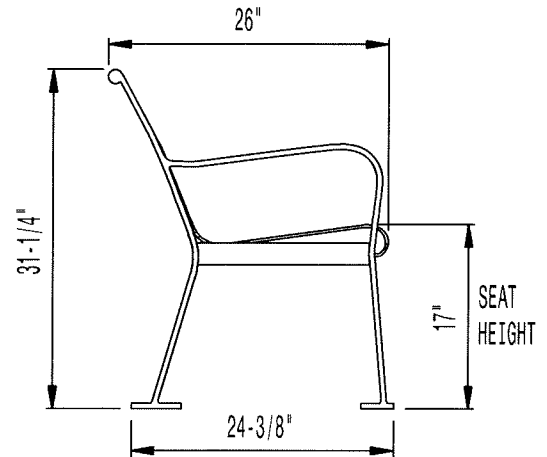
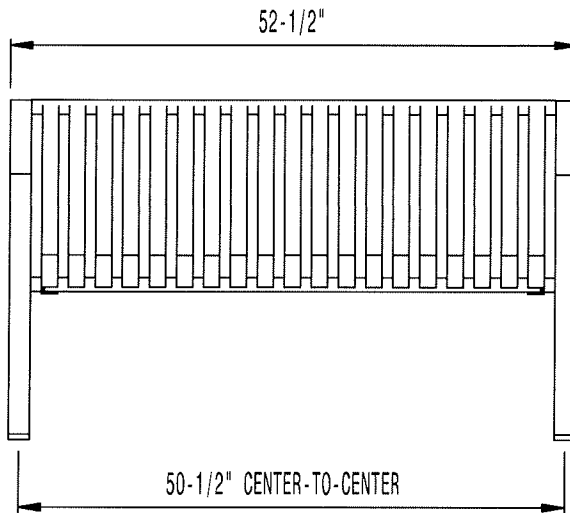
DATE 01/24/17

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

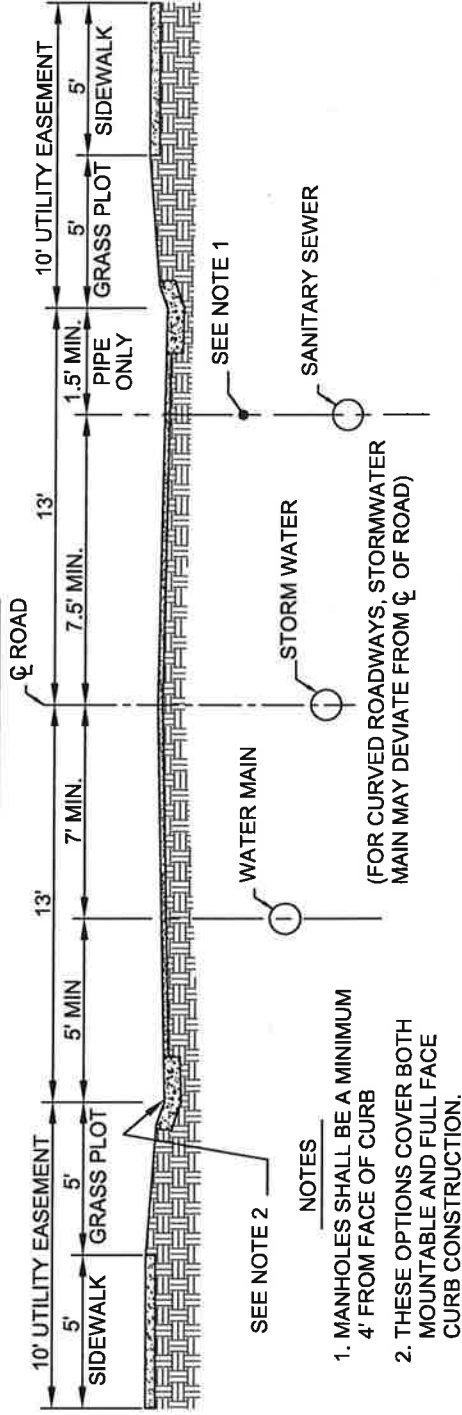
DATE 01/24/17

SCALE N.T.S.

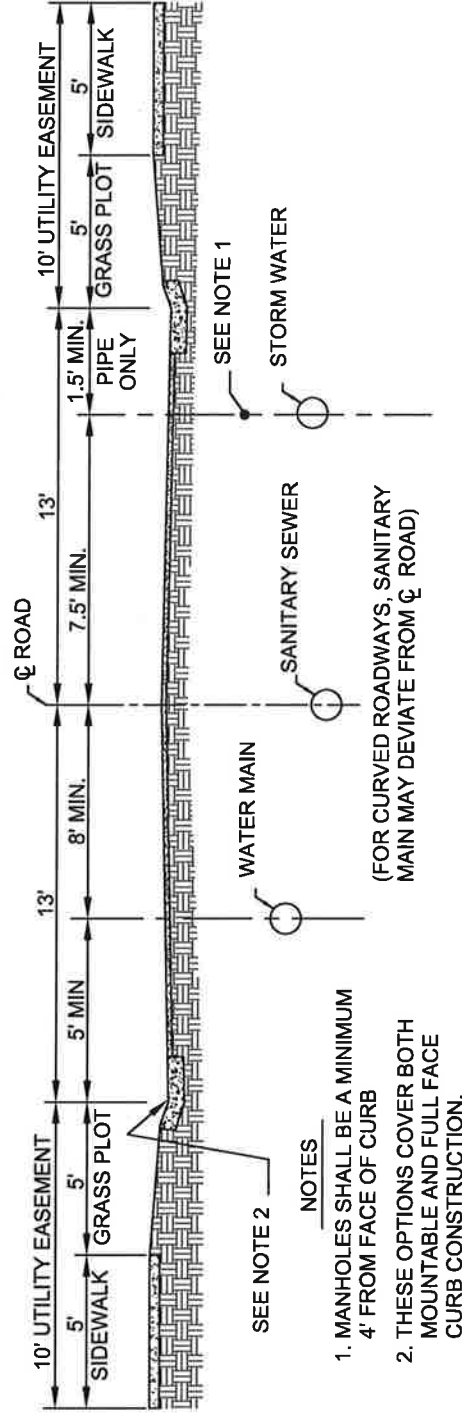
DWG NO STD60007

STD NO 600.07

OPTION A



OPTION B



CITY OF SALISBURY

SALISBURY, MD

APPROVED

1/2/10 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

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

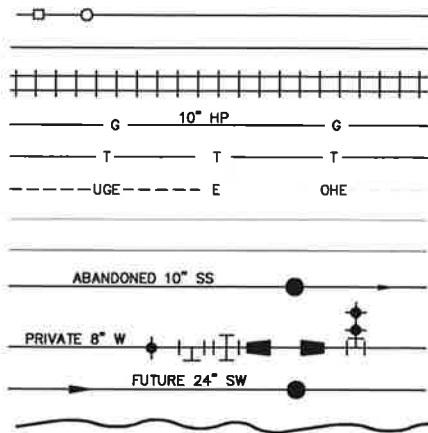
ABANDONED, PRIVATE, FUTURE WATER

ABANDONED, PRIVATE, FUTURE STORMWATER

HYDROGRAPHY (RIVERS & PONDS)

CORP. LIMIT

NOTE: CORPORATE LIMIT TEXT GOES ON THE CITY SIDE OF THE LINE



HATCH PATTERNS

SPW Utilities
ANSI31 HATCH
2 (X) SCALE



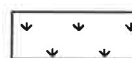
DRAINAGE ESMTS.
NET HATCH
2 (X) SCALE



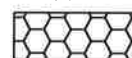
PRIVATE ESMTS.
DOTS HATCH
.5 (X) SCALE



SWM
GRASS HATCH
2 (X) SCALE



FOREST CONSERVATION
HONEY HATCH
.75 (X) SCALE



EXISTING WORK

INLETS, CURB TYPE, GRATING TYPE

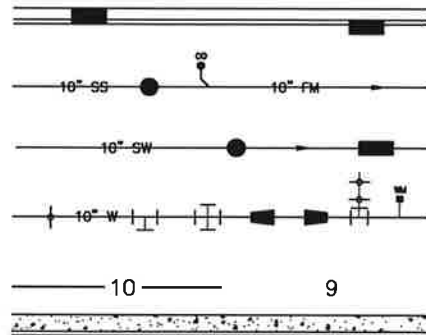
SANITARY SEWER, MANHOLE, CLEAN OUT,
FORCE MAIN & FLOW ARROW

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

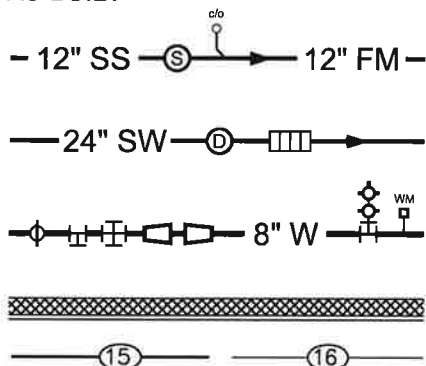
SANITARY SEWER, MANHOLE, CLEAN OUT,
FLOW ARROW & FORCE MAIN

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