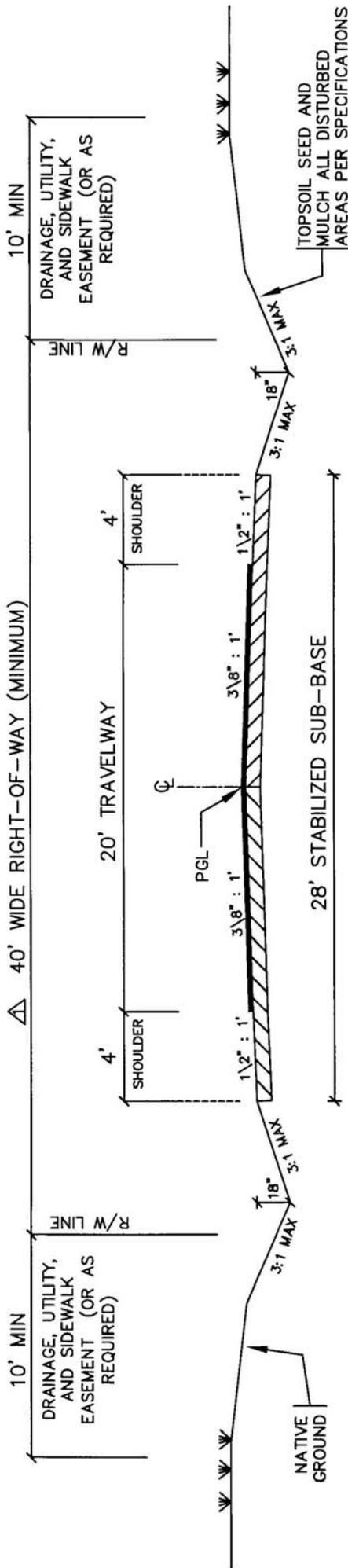


Appendix III

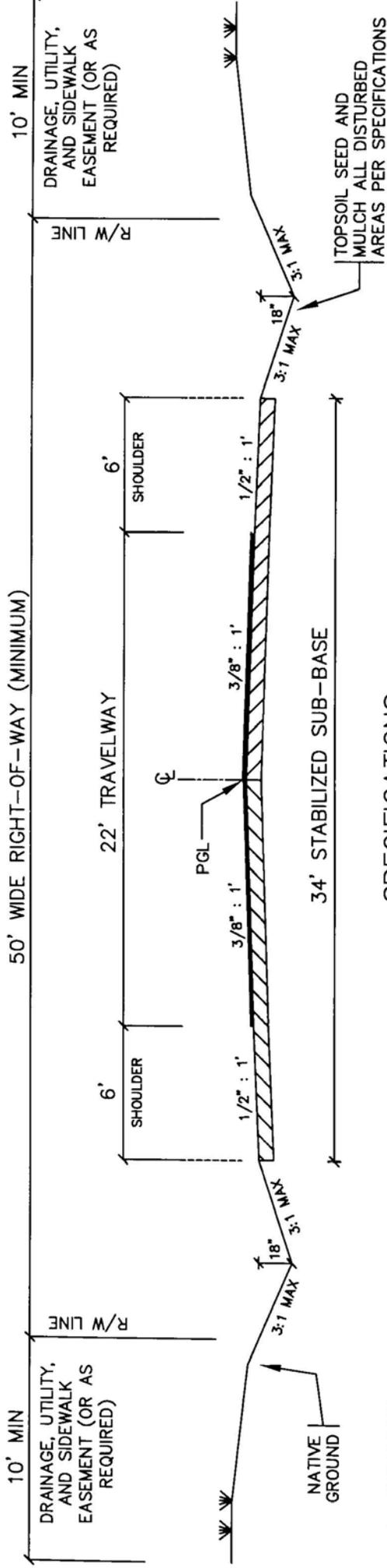
Standard Details



SPECIFICATIONS

1. PAVEMENT
 Option 1 - Shall be polymer modified asphalt emulsion [CRS-2P] applied with chip seal stone at the following rates: 1st course 45 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard; 2nd and 3rd courses 35 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard.
 Option 2 - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 9.5mm).
2. STABILIZED SUB-BASE - Shall be 8" minimum compacted bank run gravel laid and thoroughly compacted in two 4" lifts or 6" of CR-6 aggregate laid and compacted in one lift or 5" compacted bank run gravel and 3" of CR-6 aggregate laid and compacted in two lifts. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. DITCHES - Shall be excavated to gradients as shown on construction drawings and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
5. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

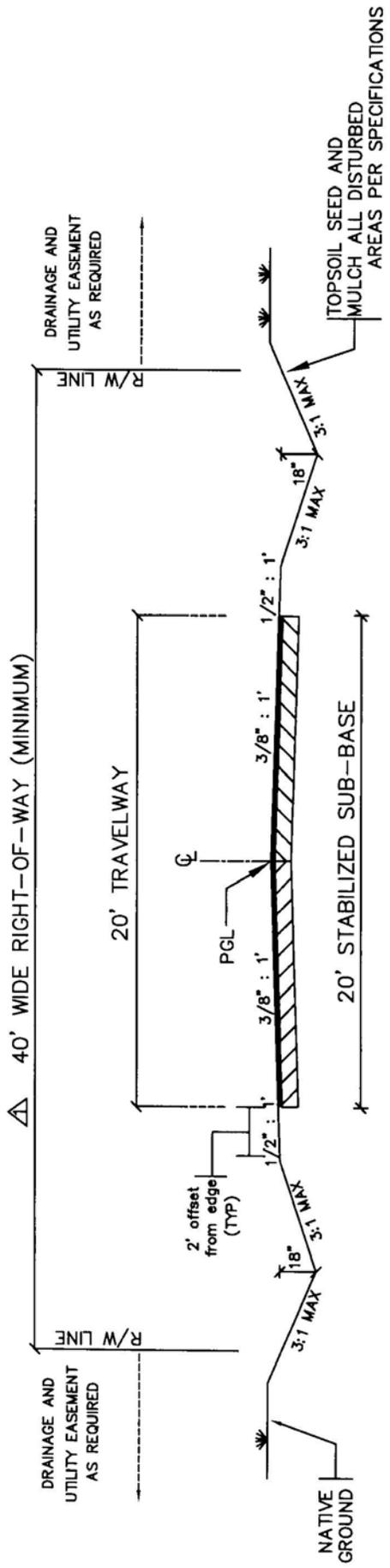
APPROVED DIRECTOR, DEPT. OF PUBLIC WORKS	SCALE: NO SCALE	QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 10/12/04	REVISIONS: Δ OCTOBER 04	LOCAL ROAD SECTION - TYPE I FOR RURAL AREAS
 CHIEF ROADS ENGINEER		STANDARD NO. RD-100.01



SPECIFICATIONS

1. PAVEMENT
 - Option 1 - Shall be polymer modified asphalt emulsion [CRS-2P] applied with chip seal stone at the following rates: 1st course 45 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard; 2nd and 3rd courses 35 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard.
 - Option 2 - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 9.5mm).
2. STABILIZED SUB-BASE - Shall be 8" minimum compacted bank run gravel laid and thoroughly compacted in two 4" lifts or 6" of CR-6 aggregate laid and compacted in one lift or 5" compacted bank run gravel and 3" of CR-6 laid and compacted in two lifts. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. DITCHES - Shall be excavated to gradients as shown on construction drawings and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
5. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

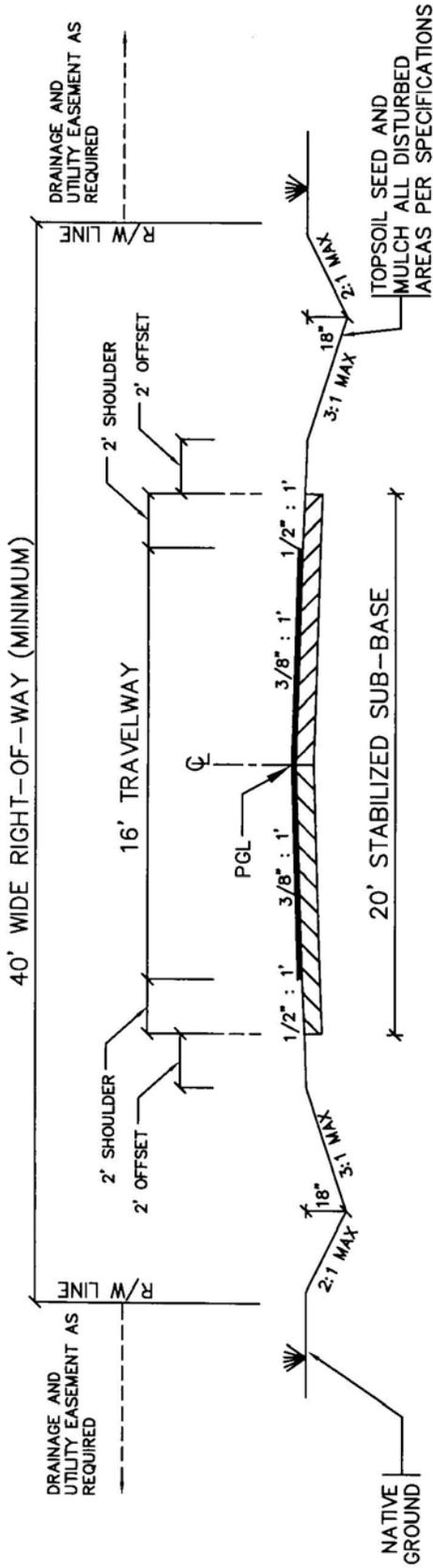
APPROVED  DIRECTOR, DEPT. OF PUBLIC WORKS	SCALE: NO SCALE	QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS LOCAL ROAD SECTION - TYPE II FOR RURAL AREAS
DATE 10/12/04	REVISIONS: OCTOBER 04	STANDARD NO. RD-100.02
CHIEF ROADS ENGINEER 		



SPECIFICATIONS

1. PAVEMENT
 - Option 1 - Shall be polymer modified asphalt emulsion [CRS-2P] applied with chip seal stone at the following rates: 1st course 45 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard; 2nd and 3rd courses 35 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard.
 - Option 2 - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 9.5mm).
2. STABILIZED SUB-BASE - Shall be 8" minimum compacted bank run gravel laid and thoroughly compacted in two 4" lifts or 6" of CR-6 aggregate laid and compacted in one lift or 5" compacted bank run gravel and 3" of CR-6 aggregate laid and compacted in two lifts. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. DITCHES - Shall be excavated to gradients as shown on construction drawings and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
5. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

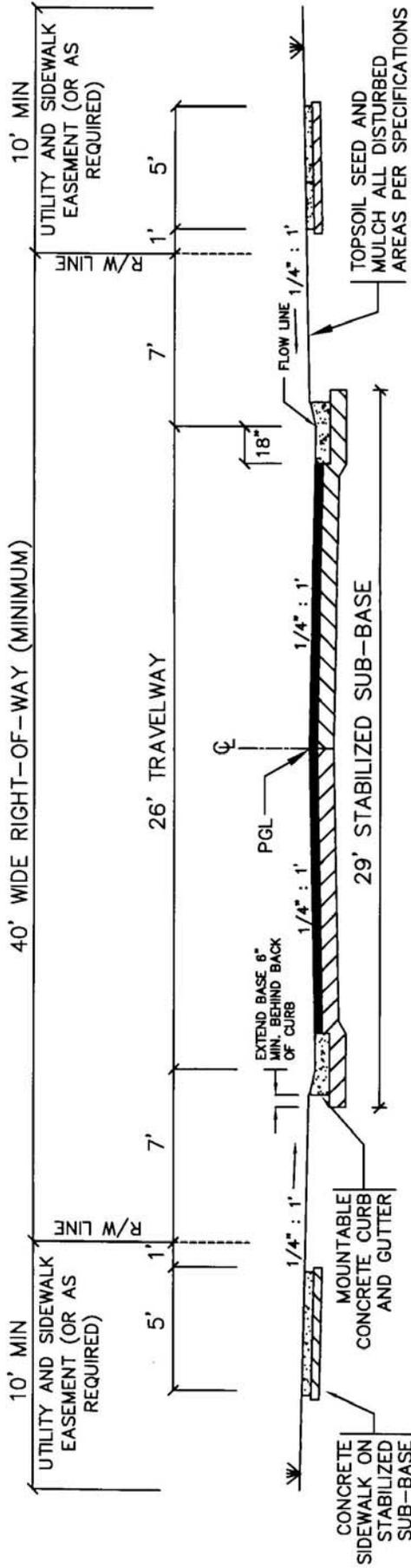
APPROVED <u>10/12/04</u> DATE	SCALE: NO SCALE	QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS
REVISIONS: Δ OCTOBER 04	LOCAL ROAD SECTION - TYPE III FOR RURAL AREAS IN CRITICAL & SENSITIVE ZONES	
<u>D. Steven Wall</u> DIRECTOR, DEPT. OF PUBLIC WORKS	<u>R. [Signature]</u> CHIEF ROADS ENGINEER	
STANDARD NO. RD-100.03		



SPECIFICATIONS

1. **PAVEMENT**
 Option 1 - Shall be polymer modified asphalt emulsion [CRS-2P] applied with chip seal stone at the following rates: 1st course 45 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard; 2nd and 3rd courses 35 lbs MD #7 stone on 1/2 gallon CRS-2P per square yard.
 Option 2 - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 2.5" compacted bituminous concrete base course (SHA mix design 9.5mm).
2. **STABILIZED SUB-BASE** - Shall be 8" minimum compacted bank run gravel laid and thoroughly compacted in two 4" lifts or 6" of CR-6 aggregate laid and compacted in one lift or 5" compacted bank run gravel and 3" of CR-6 aggregate laid and compacted in two lifts. Compaction shall meet or exceed 95 % of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. **SUB-GRADE** - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. **DITCHES** - Shall be excavated to gradients as shown on construction drawings and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
5. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

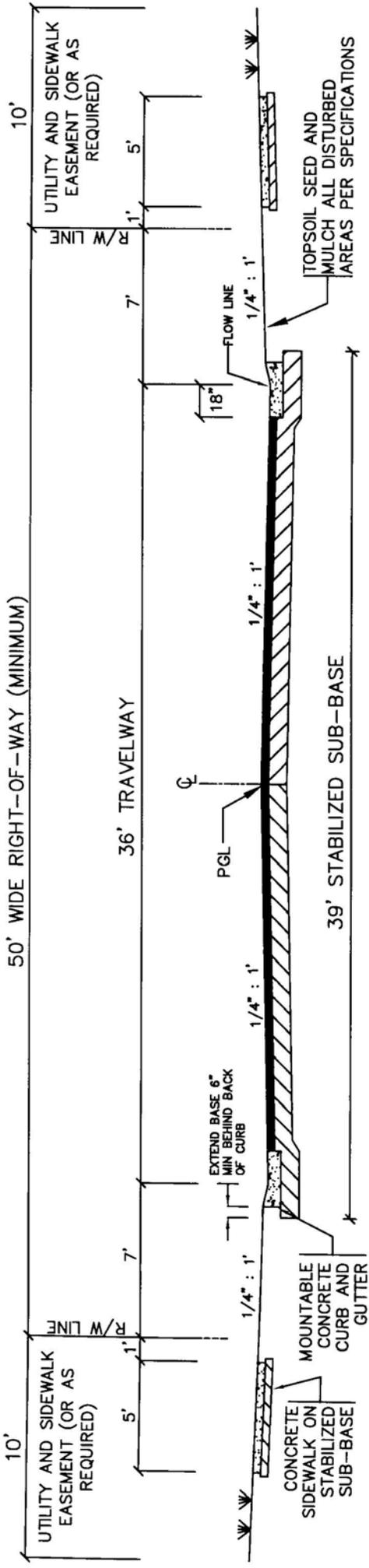
APPROVED  DIRECTOR, DEPT. OF PUBLIC WORKS	SCALE: NO SCALE REVISIONS: Δ OCTOBER 04	QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS PRIVATE ROAD SECTION FOR RURAL AREAS
CHIEF ROADS ENGINEER 	STANDARD NO. RD-100.04	



SPECIFICATIONS

1. PAVEMENT - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 19mm).
2. STABILIZED SUB-BASE - Shall be 6" minimum of CR-6 aggregate laid and compacted in one lift. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. CURB & GUTTER - All concrete curb and gutter shall conform to standard No. RD-103.01 (mountable curb).
5. SIDEWALKS - All concrete sidewalks shall conform to standard No. RD-104.01.
6. FINISH GRADING - All areas within right-of-way and drainage/utility easement shall be graded to provide positive drainage to gutter flow line and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
7. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

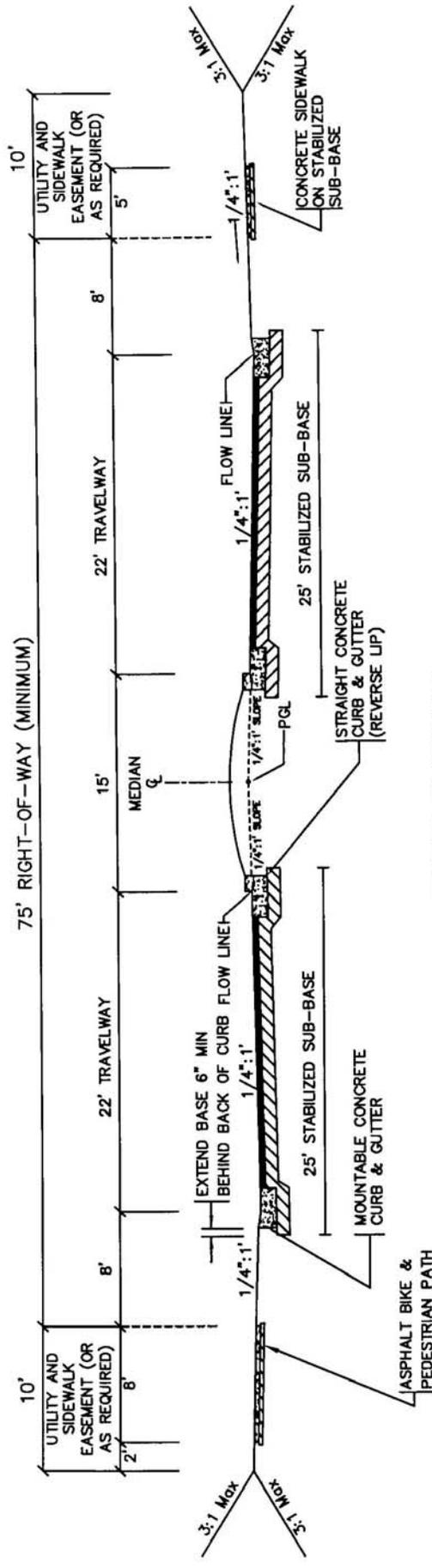
QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS LOCAL ROAD SECTION - TYPE IV FOR GROWTH AREAS	
APPROVED _____ <i>D. Steven Walls</i> DIRECTOR, DEPT. OF PUBLIC WORKS	SCALE: NO SCALE REVISIONS: Δ OCTOBER 04
_____ CHIEF ROADS ENGINEER	_____ DATE



SPECIFICATIONS

1. PAVEMENT - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 19mm).
2. STABILIZED SUB-BASE - Shall be 8" minimum of CR-6 aggregate laid and compacted in one lift. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. CURB & GUTTER - All concrete curb and gutter shall conform to standard No. RD-103.01 (mountable curb).
5. SIDEWALKS - All concrete sidewalks shall conform to standard No. RD-104.01.
6. FINISH GRADING - All areas within right-of-way and drainage/utility easement shall be graded to provide positive drainage to gutter flow line and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
7. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

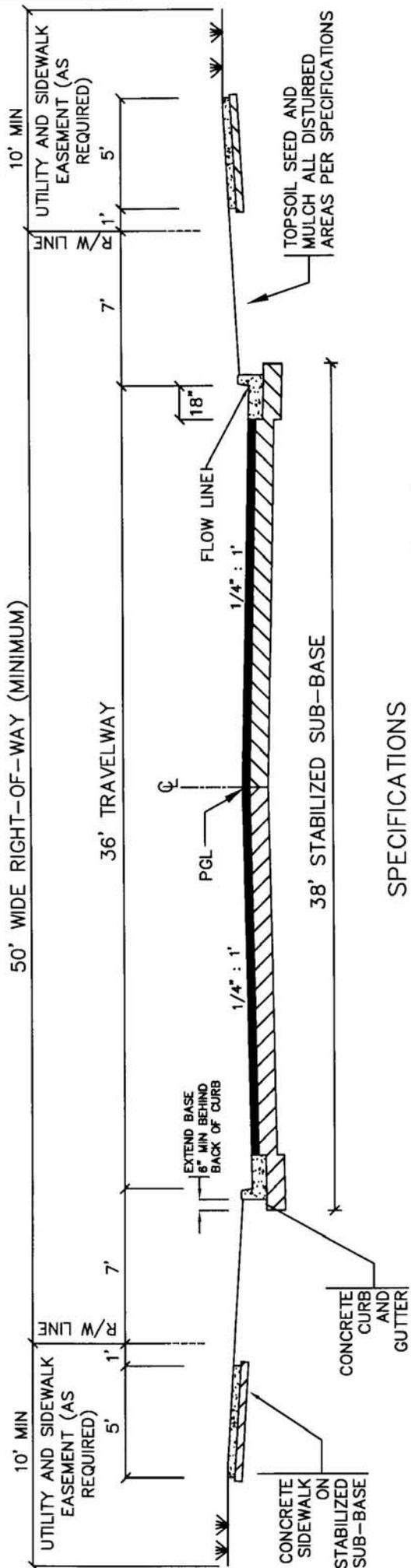
APPROVED  DIRECTOR, DEPT. OF PUBLIC WORKS	SCALE: NO SCALE	QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 10/12/04	REVISIONS: Δ OCTOBER 04	LOCAL ROAD SECTION - TYPE V FOR GROWTH AREAS
CHIEF ROADS ENGINEER 		STANDARD NO. RD-101.02



SPECIFICATIONS

1. PAVEMENT - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 19mm).
2. STABILIZED SUB-BASE - Shall be 8" minimum of CR-6 aggregate laid and compacted in one lift. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. CURB & GUTTER - All concrete curb and gutter shall conform to standard Nos. RD-103.01 (mountable curb) and RD-103.02 (straight curb).
5. SIDEWALKS & PEDESTRIAN PATHS- All concrete sidewalks shall conform to standard Nos. RD-104.01 and RD-104.02.
6. FINISH GRADING - All areas within right-of-way and drainage/utility easement shall be graded to provide positive drainage to gutter flow line and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
7. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

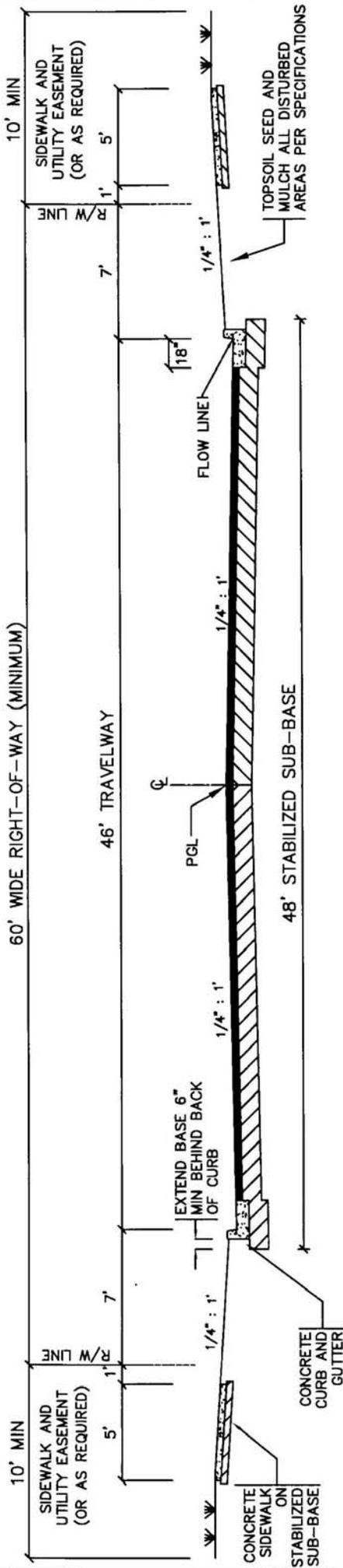
APPROVED  DIRECTOR, DEPT. OF PUBLIC WORKS	SCALE: NO SCALE REVISIONS: Δ OCTOBER 04	QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS BOULEVARD ROAD SECTION
CHIEF ROADS ENGINEER 	STANDARD NO. RD-101.03	



SPECIFICATIONS

1. PAVEMENT - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 19mm).
2. STABILIZED SUB-BASE - Shall be 8" minimum of CR-6 aggregate laid and compacted in one lift. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. CURB & GUTTER - All concrete curb and gutter shall conform to standard No. RD-103.02 (straight curb).
5. SIDEWALKS - All concrete sidewalks shall conform to standard No. RD-104.01.
6. FINISH GRADING - All areas within right-of-way and drainage/utility easement shall be graded to provide positive drainage to gutter flow line and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
7. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

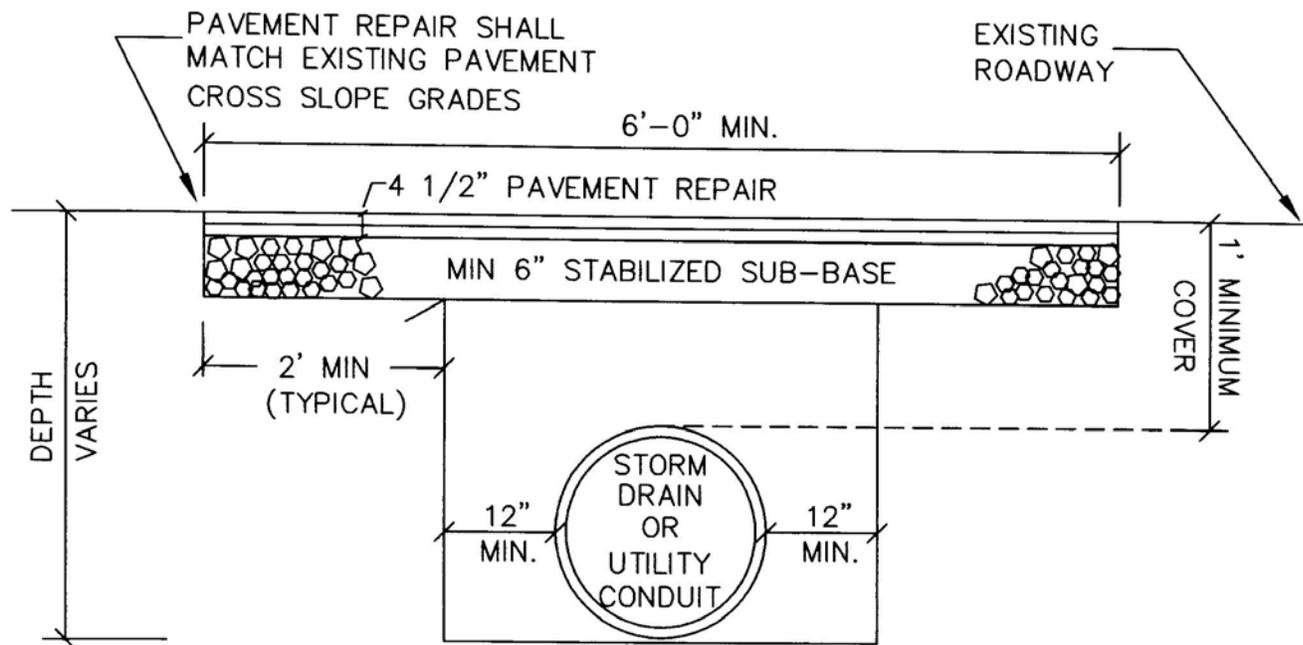
QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS	
COMMERCIAL ROAD SECTION	
LIGHT DUTY	
APPROVED	SCALE: NO SCALE
 DIRECTOR, DEPT. OF PUBLIC WORKS	REVISIONS:
	OCTOBER 04
DATE	10/22/04
CHIEF ROADS ENGINEER	 STANDARD NO. RD-101.04



SPECIFICATIONS

1. PAVEMENT - Shall be 1-1/2" compacted bituminous concrete surface course (SHA mix design 9.5mm) on 3" compacted bituminous concrete base course (SHA mix design 19mm).
2. STABILIZED SUB-BASE - Shall be 10" minimum of CR-6 aggregate laid and compacted in one lift. Compaction shall meet or exceed 95% of the modified proctor density for the material. Other alternatives to stabilized sub-base must be approved by the Chief Roads Engineer prior to initiation of construction.
3. SUB-GRADE - All unsuitable materials shall be removed to a point 12" below subgrade of the stabilization. If unsuitable material is encountered at or below this point, the unsuitable material shall be removed as directed by the Chief Roads Engineer. The unsuitable material shall be replaced with select borrow.
4. CURB & GUTTER - All concrete curb and gutter shall conform to standard No. RD-103.02 (straight curb).
5. SIDEWALKS - All concrete sidewalks shall conform to standard No. RD-104.01.
6. FINISH GRADING - All areas within right-of-way and drainage/utility easement shall be graded to provide positive drainage to gutter flow line and stabilized with a minimum of 4" of topsoil, seeded and mulched per NRCS specifications.
7. All methods of construction shall be in compliance with Queen Anne's County standards. All material specifications shall comply with the 2001 edition of the Maryland State Highway Administration's "Standard Specifications for Construction and Materials" manual and any addendum thereto.

<p>APPROVED</p> <p style="text-align: center;"><i>D. Steven Walls</i></p> <p style="text-align: center;">DIRECTOR, DEPT. OF PUBLIC WORKS</p>	<p>SCALE:</p> <p>NO SCALE</p> <p>REVISIONS:</p> <p>Δ OCTOBER 04</p>	<p>QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p style="text-align: center;">COMMERCIAL ROAD SECTION</p> <p style="text-align: center;">HEAVY DUTY</p> <p style="text-align: right;">STANDARD NO. RD-101.05</p>
--	---	--

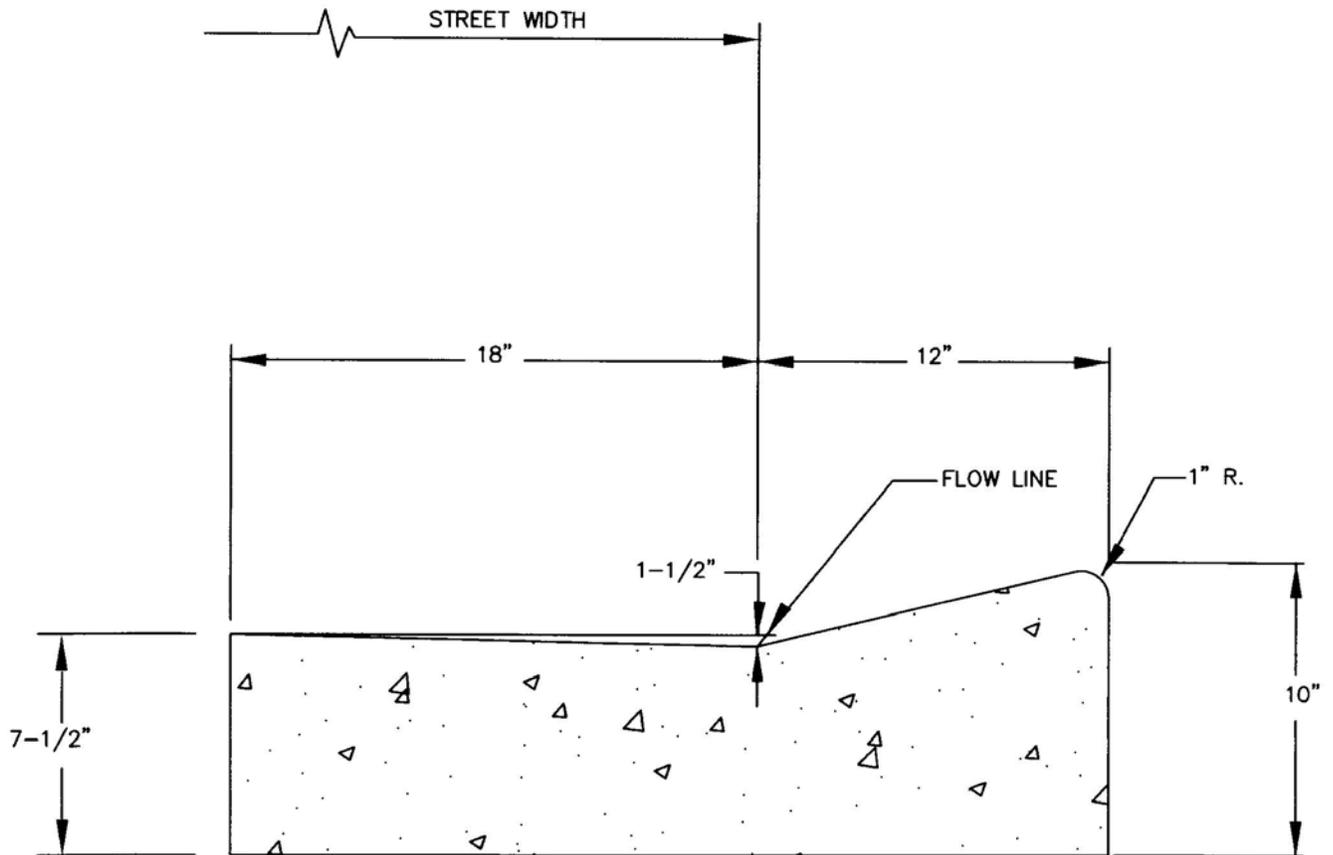


NOTES:

1. EXISTING ROADWAY SURFACING SHALL BE SAW CUT AT THE LIMITS OF THE TRENCH REPAIR.
2. PAVEMENT REPAIR SHALL CONSIST OF 1 1/2 INCH COMPACTED BITUMINOUS SURFACE COURSE (SHA MIX DESIGN 9.5MM) ON 3 INCHES COMPACTED BITUMINOUS CONCRETE BASE COURSE (SHA MIX DESIGN 19MM).
3. STABILIZED SUB-BASE SHALL BE A MINIMUM OF 6 INCHES OF CR-6 AGGREGATE PLACED AND COMPACTED IN ONE LIFT TO 95% OF THE MODIFIED PROCTOR DENSITY FOR THE MATERIAL. TRENCH OR PAVEMENT REPAIRS IN ROADS WITH HEAVY-DUTY STABILIZED SUB-BASE DEPTHS SHALL MATCH IN-SITU SUB-BASE DEPTHS OR BE AS DIRECTED BY THE ENGINEER.
4. TRENCH BACKFILL SHALL BE COMPACTED SELECT BORROW (BANK RUN GRAVEL OR APPROVED EQUAL). BACKFILL MATERIAL SHALL BE PLACED IN 6 INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY FOR THE MATERIAL.
5. ALL METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH QUEEN ANNE'S COUNTY STANDARDS. ALL MATERIAL SPECIFICATIONS SHALL COMPLY WITH THE 2001 EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" MANUAL AND ANY ADDENDUM THERETO.

SHARE\CAD\ROAD STANDARDS\FINAL\TRENCH_PAVEMENT_REPAIR_102.01.DWG

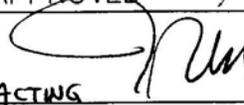
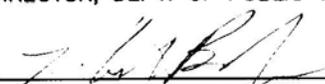
<p>APPROVED <u>1-3-03</u> DATE</p> <p><i>[Signature]</i> ACTING DIRECTOR, DEPT. OF PUBLIC WORKS</p> <p><i>[Signature]</i> CHIEF ROADS ENGINEER</p>	<p>SCALE: NO SCALE</p> <p>REVISIONS:</p>	<p>QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS</p> <hr/> <p>TRENCH & PAVEMENT REPAIR DETAIL</p> <hr/> <p>STANDARD NO. RD-102.01</p>
--	--	---



NOTES:

1. ALL MOUNTABLE CURB AND GUTTER CONCRETE SHALL BE SHA MIX NO. 3, 3,500 PSI - 28 DAY COMPRESSION STRENGTH.
2. PROVIDE REVERSE LIP GUTTER PAN TO MATCH ADJACENT PAVEMENT WHERE WATER FLOWS AWAY FROM CURB AND WHERE CALLED FOR ON CONSTRUCTION DRAWINGS.
3. CURB HEIGHT SHALL BE ADJUSTED AND SET OUT ON CONSTRUCTION DRAWINGS. MINIMUM HORIZONTAL TRANSITION FROM 6" TO 8" HEIGHT IS 10'.
4. ALL METHODS OF CONSTRUCTION AND LOCATIONS OF CONSTRUCTION OR CONTRACTION JOINTS SHALL BE CONSISTENT WITH THE MDOT/SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF MATERIALS.

SHARE1\CAD\ROAD STANDARDS\FINAL\MOUNTED_CURB_DETAIL_103.01.DWG

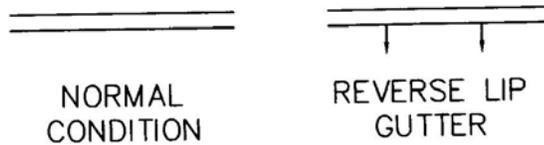
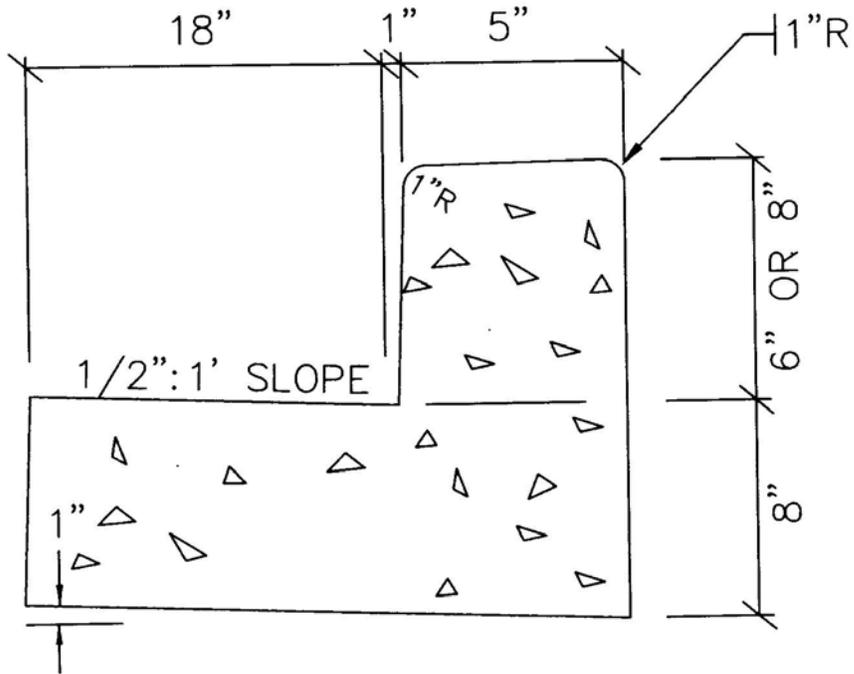
APPROVED 1-3-03
 DATE

 ACTING
 DIRECTOR, DEPT. OF PUBLIC WORKS

 CHIEF ROADS ENGINEER

SCALE:
 NO SCALE
 REVISIONS:

QUEEN ANNE'S COUNTY
 DEPARTMENT OF PUBLIC WORKS

MOUNTABLE CURB DETAIL

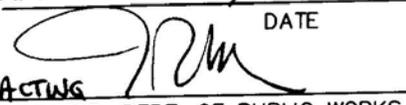
 STANDARD NO. RD-103.01

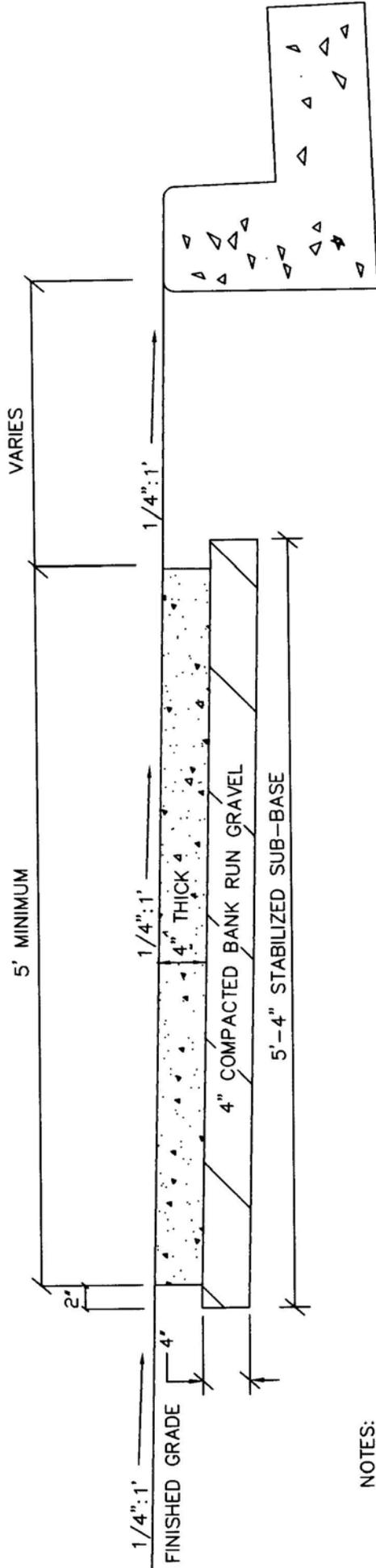


NOTES:

1. ALL STRAIGHT CURB AND GUTTER SHALL BE SHA MIX NO. 2, 3,000 PSI - 28 DAY COMPRESSION STRENGTH.
2. PROVIDE REVERSE LIP GUTTER PAN TO MATCH ADJACENT PAVEMENT WHERE WATER FLOWS AWAY FROM CURB AND WHERE CALLED FOR ON CONSTRUCTION DRAWINGS.
3. CURB HEIGHT SHALL BE ADJUSTED AND SET OUT ON CONSTRUCTION DRAWINGS. MINIMUM HORIZONTAL TRANSITION FROM 6" TO 8" HEIGHT IS 10'.
4. ALL METHODS OF CONSTRUCTION AND LOCATIONS OF CONSTRUCTION OR CONTRACTION JOINTS SHALL BE CONSISTENT WITH THE MDOT/SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, 2001 EDITION.

SHARE1\CAD\ROAD STANDARDS\FINAL\STRAIGHT_CURB_DETAIL_103.02.DWG

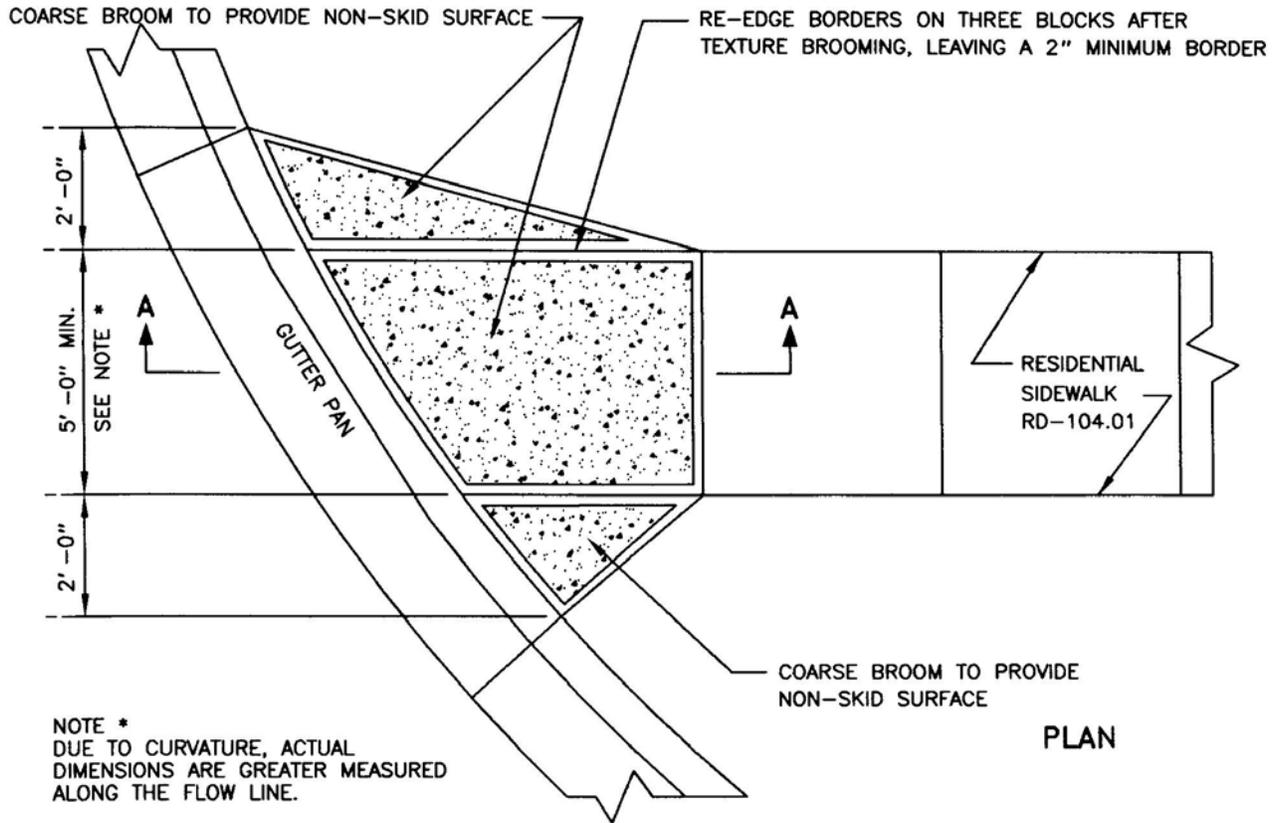
APPROVED <u>1-3-03</u> DATE  ACTWS DIRECTOR, DEPT. OF PUBLIC WORKS  CHIEF ROADS ENGINEER	SCALE:	QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS STRAIGHT CURB DETAIL STANDARD NO. RD-103.02
	NO SCALE	
	REVISIONS:	



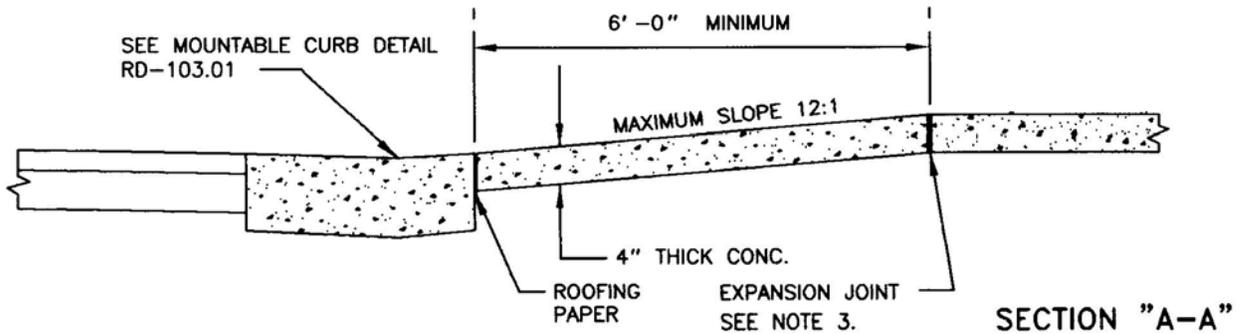
NOTES:

1. CONCRETE SHALL BE SHA MIX NO. 2, 3,000 PSI - 28 DAY COMPRESSIVE STRENGTH.
2. STABILIZED SUB-BASE SHALL BE 4 INCHES MINIMUM COMPACTED BANK RUN GRAVEL (OR APPROVED EQUAL) PLACED AND COMPACTED ON APPROVED SUBGRADE TO 95% OF THE MODIFIED PROCTOR DENSITY FOR THE MATERIAL.
3. ALL AREAS WITHIN THE RIGHT-OF-WAY AND EASEMENTS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE TO ROADWAY DRAINAGE SYSTEMS AND STABILIZED WITH A MINIMUM OF 4 INCHES OF TOPSOIL, SEEDED AND MULCHED PER NRCS SPECIFICATIONS.
4. SIDEWALKS TO BE MAINTAINED BY PROPERTY OWNER.
5. ALL METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH QUEEN ANNE'S COUNTY STANDARDS. ALL MATERIAL SPECIFICATIONS SHALL COMPLY WITH THE 2001 EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" MANUAL AND ANY ADDENDUM THERETO.

QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS	
RESIDENTIAL SIDEWALK	
APPROVED	SCALE: NO SCALE
<i>[Signature]</i>	REVISIONS:
DATE	
1-2-03	
ACTING DIRECTOR, DEPT. OF PUBLIC WORKS	
<i>[Signature]</i>	
CHIEF ROADS ENGINEER	
	STANDARD NO. RD-104.01



NOTE *
 DUE TO CURVATURE, ACTUAL
 DIMENSIONS ARE GREATER MEASURED
 ALONG THE FLOW LINE.



NOTES:

1. ALL METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH QUEEN ANNE'S COUNTY STANDARDS. ALL MATERIAL SPECIFICATIONS SHALL COMPLY WITH THE 2001 EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" MANUAL AND ANY ADDENDUM THERETO.
2. CONCRETE SHALL BE SHA MIX NO. 2, 3,000 PSI - 28 COMPRESSIVE STRENGTH.
3. SIDEWALK RAMPS SHOULD BE LOCATED AS INDICATED. HOWEVER, EXISTING SURFACE UTILITIES AND EXISTING OR PROPOSED GEOMETRICS MAY AFFECT PLACEMENT.
4. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING, TWO COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT.

\\VOL1\CAD\ROAD STANDARDS\FINAL\SIDEWALK_RAMP_104.03.DWG

APPROVED _____ DATE _____

[Signature]
 ACTING DIRECTOR, DEPT. OF PUBLIC WORKS

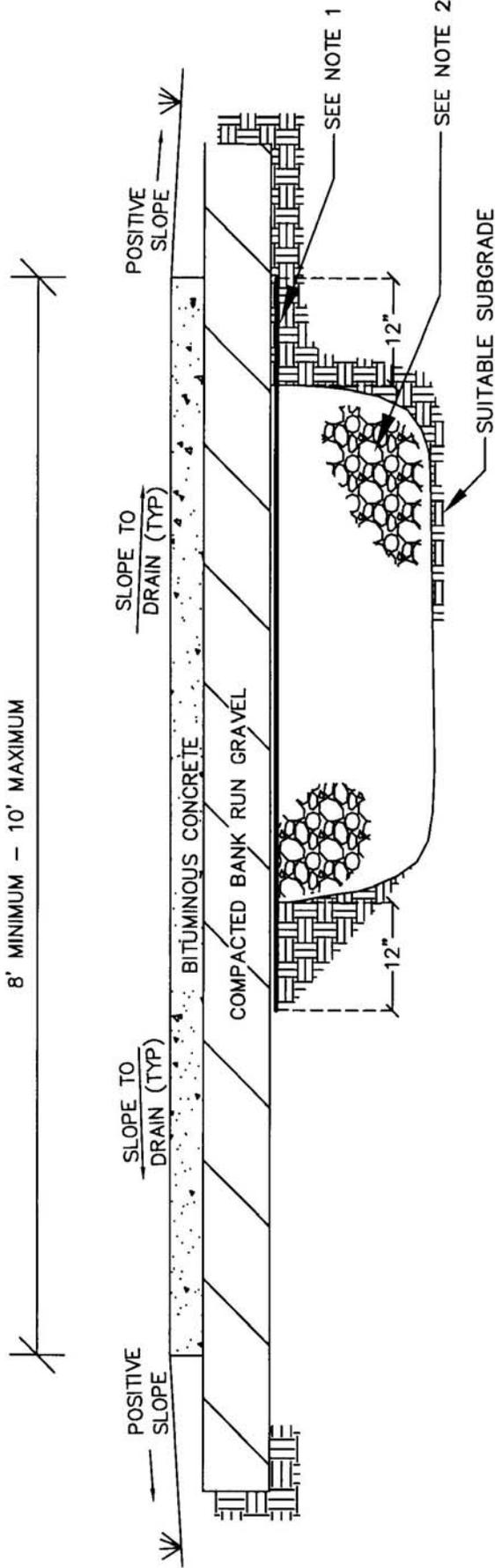
 CHIEF ROADS ENGINEER

SCALE: NO SCALE
REVISIONS:

QUEEN ANNE'S COUNTY
 DEPARTMENT OF PUBLIC WORKS

SIDEWALK RAMP

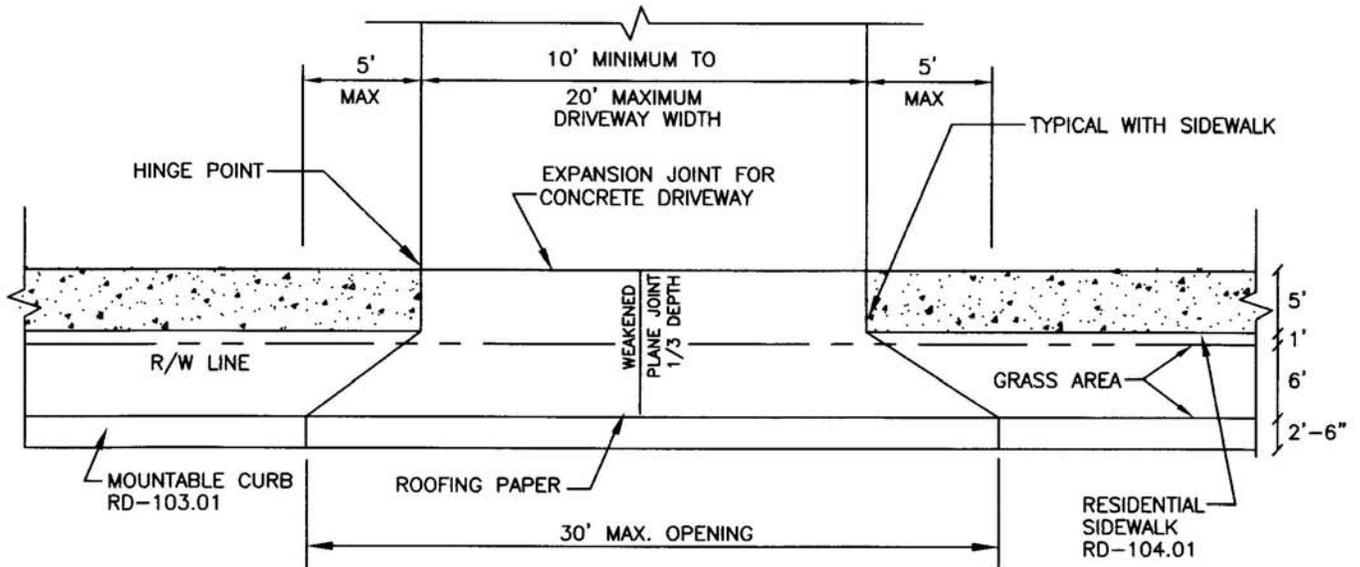
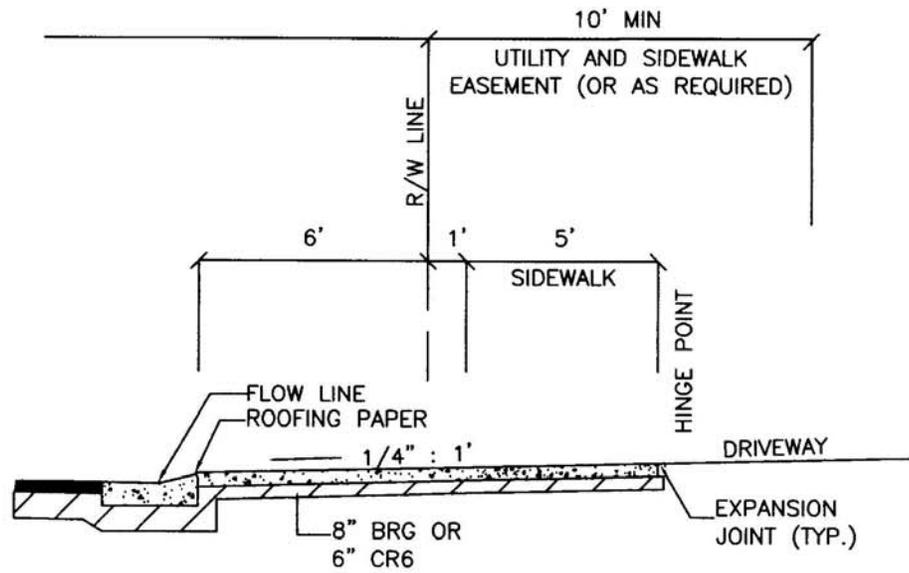
STANDARD NO. RD-104.03



NOTES:

1. PROVIDE PROPEX 2002, GEOTEXT 315ST, OR APPROVED EQUAL GEOTEXTILE WOVEN FABRIC. FABRIC SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE LIMITS OF EXCAVATION.
2. OVER-EXCAVATE AREAS OF UNSUITABLE MATERIAL TO FIRM, SUITABLE SUBGRADE AS DIRECTED BY THE ENGINEER. BACKFILL WITH NO. 2 STONE (OR APPROVED EQUAL). STONE SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY FOR THE MATERIAL. DEPTH AND WIDTH OF OVER-EXCAVATION WILL VARY WITH ACTUAL FIELD CONDITIONS.
3. ALL METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH QUEEN ANNE'S COUNTY STANDARDS. ALL MATERIAL SPECIFICATIONS SHALL COMPLY WITH THE 2001 EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS" MANUAL AND ANY ADDENDUM THERETO.

APPROVED		SCALE:		QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS	
10/12/04 DATE D. Steven Walls DIRECTOR, DEPT. OF PUBLIC WORKS R. J. [Signature] CHIEF ROADS ENGINEER		NO SCALE		BIKE AND PEDESTRIAN PATH EXCAVATION OF UNSUITABLE MATERIAL	
		REVISIONS:			
				STANDARD NO. RD-104.04	

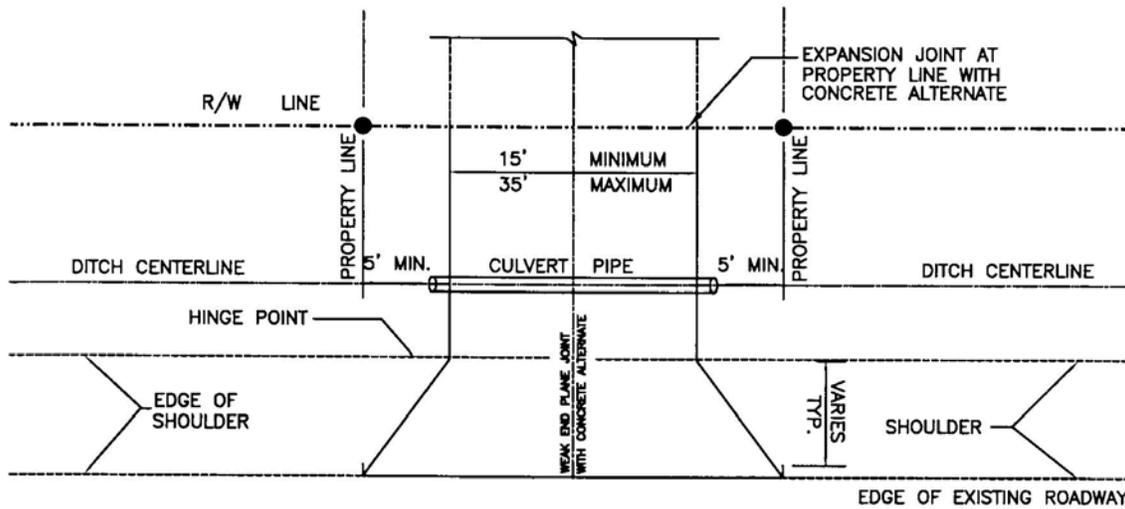
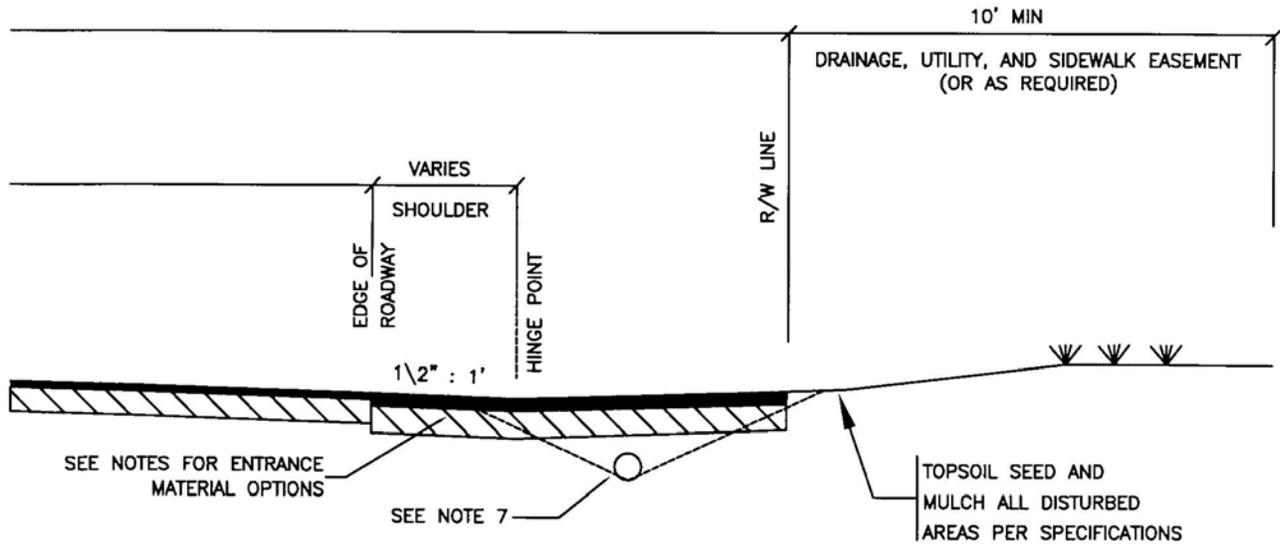


NOTES:

1. PORTLAND CEMENT CONCRETE - SHALL BE 6" THICK (SHA MIX NO. 2, 3,000 PSI - 28 DAY COMPRESSIVE STRENGTH). THIS THICKNESS SHALL INCLUDE THE SIDEWALK SECTION LOCATED WITHIN THE ENTRANCE.
2. THE BASE MATERIAL SHALL BE 8" OF BANK RUN GRAVEL LAID AND THOROUGHLY COMPACTED IN TWO 4" LIFTS OR 6" OF AGGREGATE LAID AND COMPACTED IN ONE LIFT. COMPACTION SHALL MEET OR EXCEED 95% MODIFIED PROCTOR DENSITY FOR THE MATERIAL.
3. ONLY CONCRETE APRONS SHALL BE USED WHEN CONCRETE SIDEWALK IS CONSTRUCTED.
4. EXPANSION JOINT MATERIAL SHALL BE 1/2" PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING, TWO COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT.
5. DRIVEWAY AND DRIVEWAY APRON SHALL BE MAINTAINED BY PROPERTY OWNER.
6. ALL METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH QUEEN ANNE'S COUNTY STANDARDS. ALL MATERIAL SPECIFICATIONS SHALL COMPLY WITH THE 2001 EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" MANUAL AND ANY ADDENDUM THERETO.

V:\1\CAD\ROAD STANDARDS\FINAL\RESIDENTIAL_ENTRANCE_CS_105.01.DWG

<p>APPROVED <u>1-3-03</u> DATE</p> <p><i>[Signature]</i> ACTWG DIRECTOR, DEPT. OF PUBLIC WORKS</p> <p><i>[Signature]</i> CHIEF ROADS ENGINEER</p>	<p>SCALE: NO SCALE</p> <p>REVISIONS:</p>	<p>QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS</p> <hr/> <p>RESIDENTIAL ENTRANCE WITH MOUNTABLE CURB - CLOSED SECT.</p> <hr/> <p>STANDARD NO. RD-105.01</p>
---	--	---



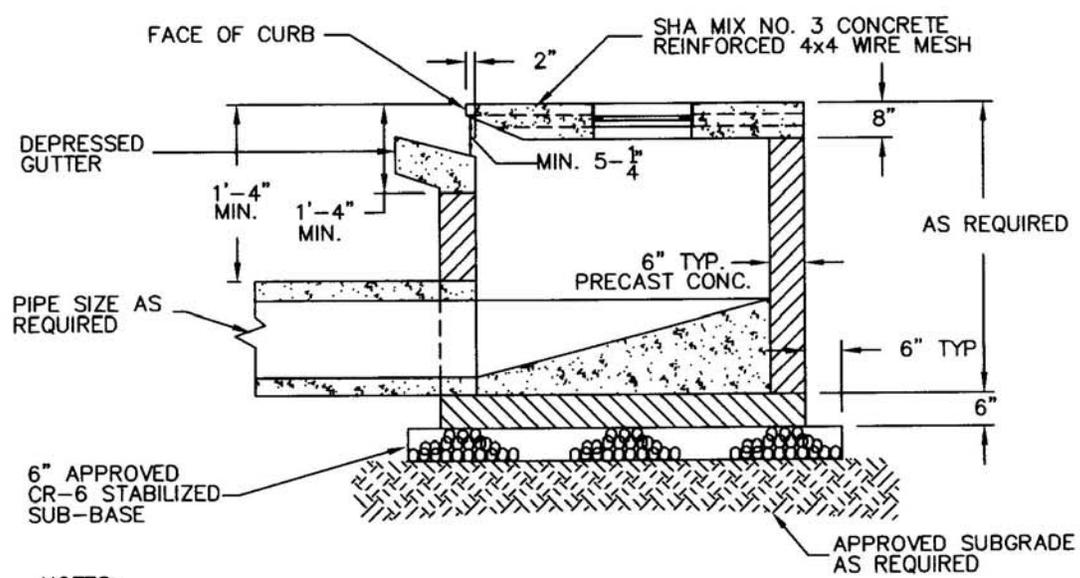
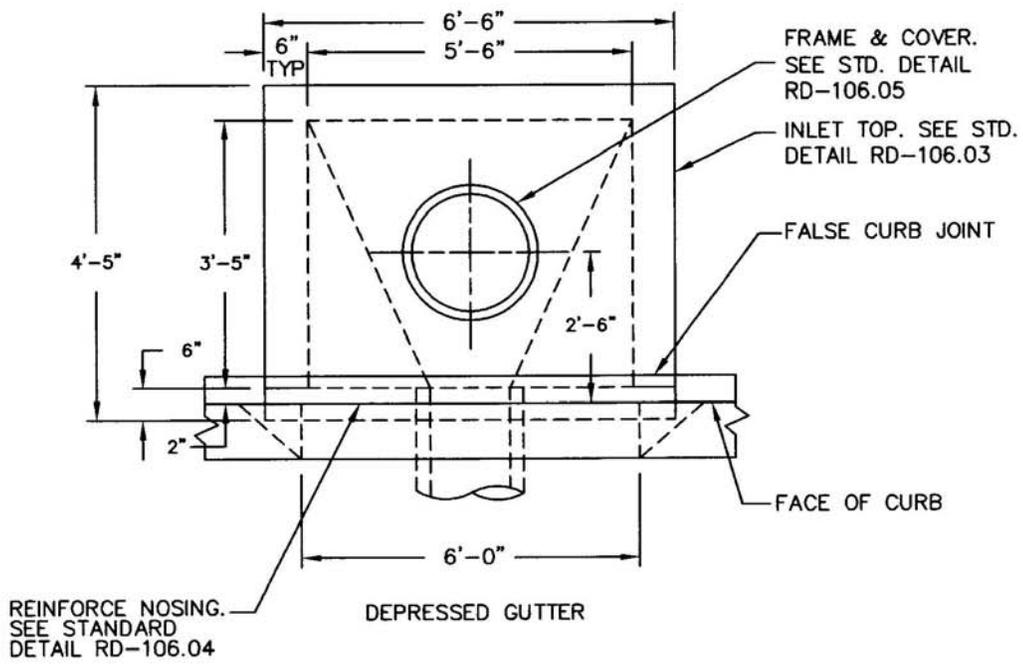
NOTES:

1. UNPAVED ENTRANCE - SHALL BE 12" MINIMUM COMPACTED BANK RUN GRAVEL LAID AND THOROUGHLY COMPACTED IN TWO 6" LIFTS OR 8" OF CR-6 AGGREGATE LAID AND COMPACTED IN ONE 8" LIFT. COMPACTION SHALL MEET OR EXCEED 95% OF THE MODIFIED PROCTOR DENSITY FOR THE MATERIAL.
2. PAVED ENTRANCE - SHALL BE 8" MINIMUM COMPACTED BANK RUN GRAVEL LAID AND THOROUGHLY COMPACTED IN TWO 4" LIFTS OR 6" OF CR-6 AGGREGATE LAID AND COMPACTED IN ONE LIFT. COMPACTION SHALL MEET OR EXCEED 95% OF THE MODIFIED PROCTOR DENSITY FOR THE MATERIAL. OTHER ALTERNATIVES TO PAVED ENTRANCE MUST BE APPROVED BY THE CHIEF ROADS ENGINEER PRIOR TO INITIATION OF CONSTRUCTION.
3. BITUMINOUS CONCRETE - SHALL BE A MINIMUM OF 2" COMPACTED BITUMINOUS CONCRETE SURFACE COURSE (SHA MIX DESIGN 9.5mm)
4. PORTLAND CEMENT CONCRETE - SHALL BE 6" THICK (SHA MIX NO. 2, 3,000 PSI - 28 DAY COMPRESSIVE STRENGTH).
5. EXPANSION JOINT MATERIAL FOR CONCRETE ENTRANCE SHALL BE 1/2" PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING, TWO COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT.
6. DRIVEWAY AND DRIVEWAY APRON SHALL BE MAINTAINED BY PROPERTY OWNER.
7. CULVERT PIPE SHALL BE 12" MINIMUM DIAMETER OR THE OVAL EQUIVALENT.
8. ALL METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH QUEEN ANNE'S COUNTY STANDARDS. ALL MATERIAL SPECIFICATIONS SHALL COMPLY WITH THE 2001 EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" MANUAL AND ANY ADDENDUM THERETO.

APPROVED 10/12/04
DATE
I. Steven Walls
DIRECTOR, DEPT. OF PUBLIC WORKS
R. J. J. J.
CHIEF ROADS ENGINEER

SCALE:
1:4
REVISIONS:
OCTOBER 04

QUEEN ANNE'S COUNTY
DEPARTMENT OF PUBLIC WORKS
**RESIDENTIAL ENTRANCE
OPEN SECTION ROAD**
STANDARD NO. RD-105.02

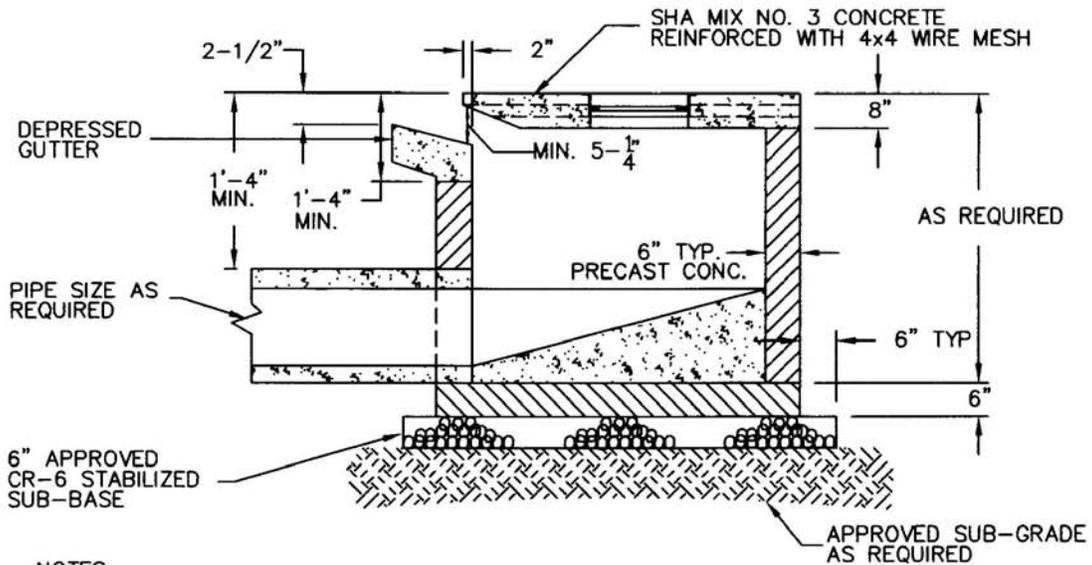
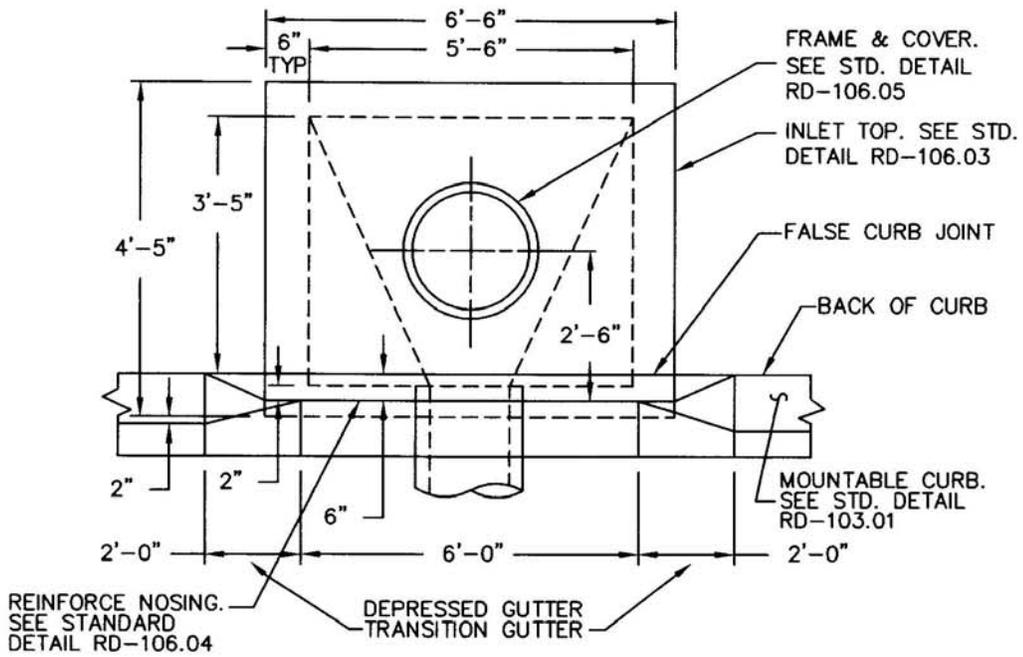


NOTES:

1. CHANNEL SHALL BE BRICK OR HAND FORMED CONCRETE MIN. THICKNESS OF 4". SLOPE SIDES TO PIPE INVERT. MORTAR SHALL BE "TYPE S".
2. PROVIDE LIFT HOOKS IN UNEXPOSED SURFACES TO ACCOMMODATE FIELD PLACEMENT.

SHARE\CAD\ROAD STANDARDS\FINAL\INLET_STD_106.01.DWG

<p>APPROVED <i>[Signature]</i> 1-3-03 DATE</p> <p>ACTWG <i>[Signature]</i> DIRECTOR, DEPT. OF PUBLIC WORKS</p> <p><i>[Signature]</i> CHIEF ROADS ENGINEER</p>	<p>SCALE: NO SCALE</p> <p>REVISIONS:</p>	<p>QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>STANDARD CURB INLET</p> <p>STANDARD NO. RD-106.01</p>
---	--	---



NOTES:

1. CHANNEL SHALL BE BRICK OR HAND FORMED CONCRETE MIN. THICKNESS OF 4".
SLOPE SIDES TO PIPE INVERT. MORTAR SHALL BE "TYPE S".
2. PROVIDE LIFT HOOKS IN UNEXPOSED SURFACES TO ACCOMMODATE FIELD PLACEMENT.
3. TOP OF INLET SHALL MATCH TOP OF CURB FOR ELEVATION.

SHARE1\CAD\ROAD STANDARDS\FINAL\INLET_MTD_106.02.DWG

APPROVED 1-3-03
DATE
[Signature]
ACTING
DIRECTOR, DEPT. OF PUBLIC WORKS

[Signature]
CHIEF ROADS ENGINEER

SCALE: NO SCALE
REVISIONS:

QUEEN ANNE'S COUNTY
DEPARTMENT OF PUBLIC WORKS

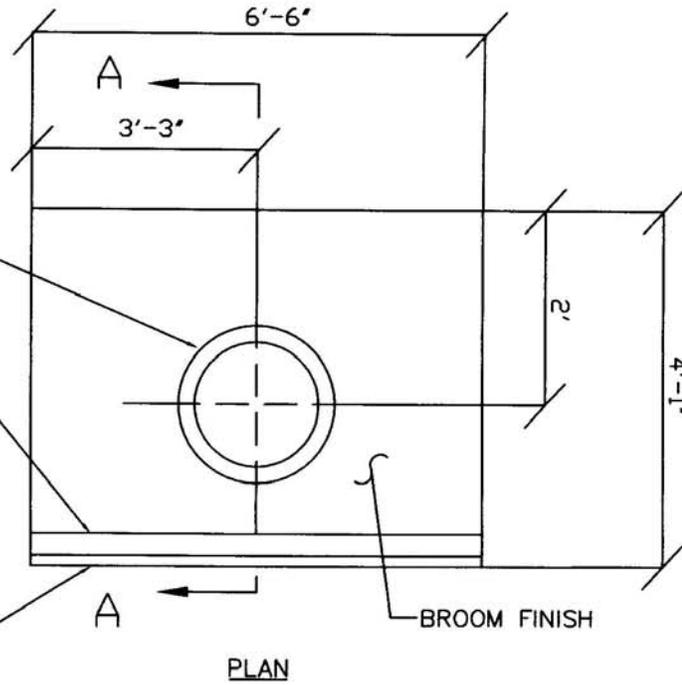
**MOUNTABLE CURB
INLET**

STANDARD NO. RD-106.02

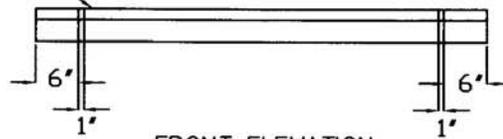
FRAME & COVER
SEE STD. DETAIL
NO. RD-106.05

FALSE CURB JOINT

REINFORCED
NOSING SEE STD.
DETAIL NO.
RD-106.04

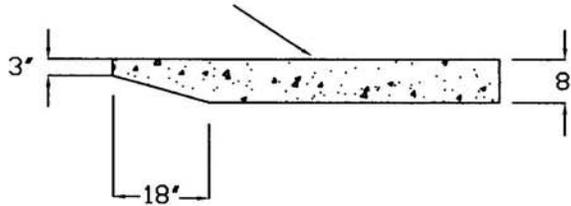


PLAN



FRONT ELEVATION

SHA MIX NO. 3 CONCRETE REINFORCED WITH 4x4 WIRE MESH.



SECTION A-A

NOTES:

1. LIFTING DEVICE SHALL BE DETERMINED BY CONTRACTOR, NO DEVICES SHALL BE PERMITTED IN EXPOSED TOP SURFACES.

I:\SHARE\CAD\ROAD STANDARDS\FINAL\INLET_TOP_106.03.DWG

APPROVED 1-3-03
DATE
[Signature]
ACTING
DIRECTOR, DEPT. OF PUBLIC WORKS

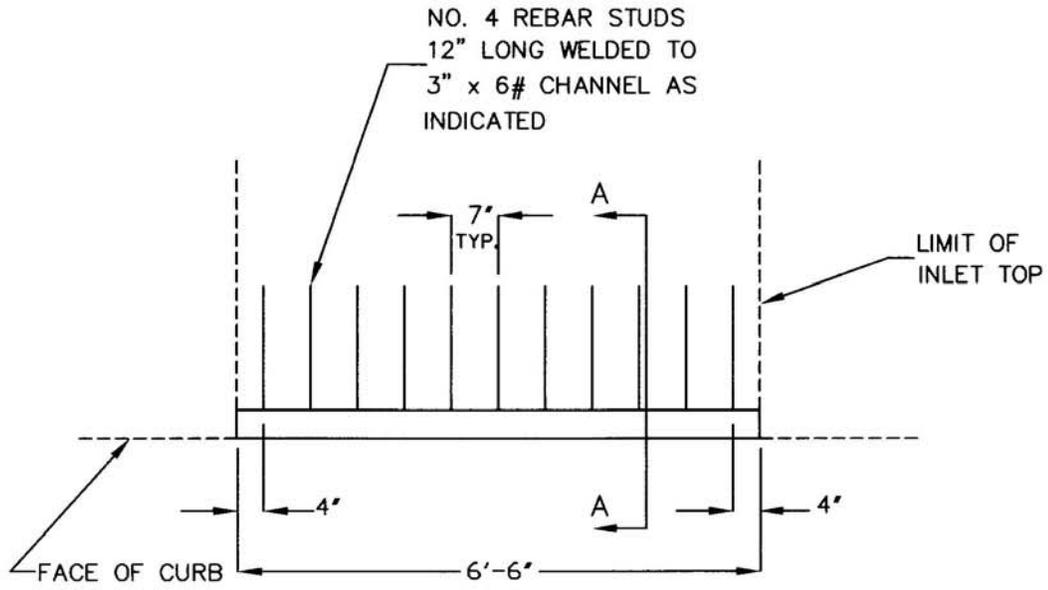
[Signature]
CHIEF ROADS ENGINEER

SCALE:
NO SCALE
REVISIONS:

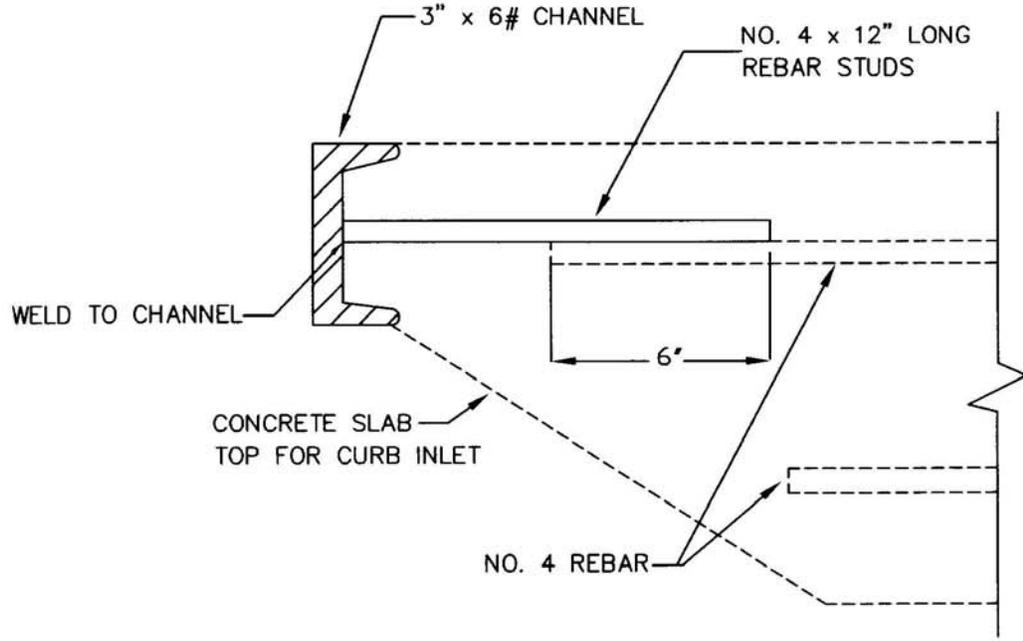
QUEEN ANNE'S COUNTY
DEPARTMENT OF PUBLIC WORKS

COG INLET TOP

STANDARD NO. RD-106.03



PLAN



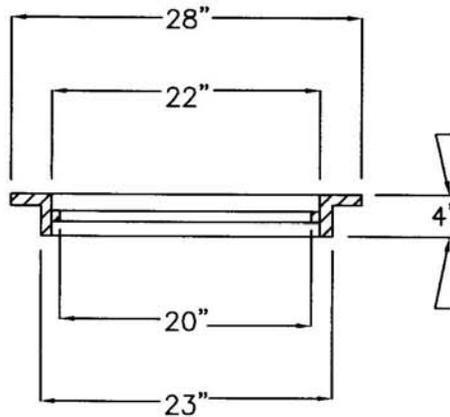
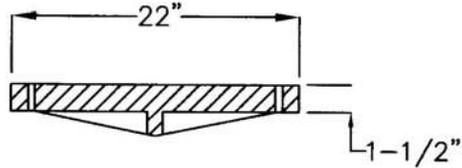
SECTION A-A

\\SHARE1\CAD\ROAD STANDARDS\FINAL\INLET_NOSING_106.04.DWG

APPROVED 1-3-03
 DATE
[Signature]
 ACTAK
 DIRECTOR, DEPT. OF PUBLIC WORKS
[Signature]
 CHIEF ROADS ENGINEER

SCALE:
 NO SCALE
 REVISIONS:

QUEEN ANNE'S COUNTY
 DEPARTMENT OF PUBLIC WORKS
REINFORCED NOSING
 STANDARD NO. RD-106.04



NOTES:

1. CASTING SHALL CONFORM TO ASTM A-48-64 CLASS 30 IRON MINIMUM.
2. CASTING SHALL HAVE GROUND OR MACHINED BEARING SURFACES.
3. CASTING SHALL BE ASPHALT COATED.
4. CASTING SHALL BE OF UNIFORM QUALITY, FREE FROM BLOW HOLES, POROSITY, HARD SPOTS, SHRINKAGE DEFECTS, OR OTHER INJURIOUS DEFECTS.
5. CASTING SHALL BE LIGHT DUTY SIDEWALK TYPE.
6. "PICK HOLES" ARE REQUIRED IN LID.
7. FRAME AND COVER SHALL BE C-1462 AS MANUFACTURED BY EAST JORDAN IRON WORKS, P.O. BOX 439 SPRING ST. EAST JORDAN, MICH. 49727, OR AN APPROVED EQUAL.

\\SHARE\CAD\ROAD STANDARDS\FINAL\INLET_FRAMECOVER_106.05.DWG

<p>APPROVED <u>1-3-03</u> DATE</p> <p><i>JRM</i> ACTING DIRECTOR, DEPT. OF PUBLIC WORKS</p> <p><i>John V. [Signature]</i> CHIEF ROADS ENGINEER</p>	<p>SCALE: NO SCALE</p> <p>REVISIONS:</p>	<p>QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>INLET FRAME & COVER</p> <p>STANDARD NO. RD-106.05</p>
--	--	---