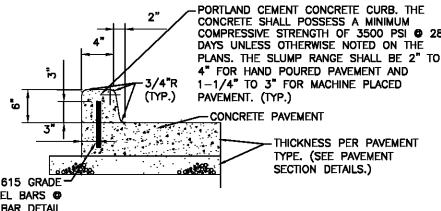
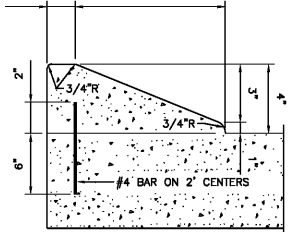


**TEMPORARY CURB DETAIL**  
N.T.S.



**PIN ON BARRIER CURB DETAIL**  
N.T.S.



**MOUNTABLE CONCRETE CURB**  
N.T.S.

**NOTES**  
BEGIN CURB PAVING WORK ONLY AFTER UNSUITABLE PAVEMENT AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.

**JOINT CONSTRUCTION:**

1. **CONTRACTION JOINTS:** CONSTRUCT CONCRETE CURB OR COMBINATION CONCRETE CURB AND GUTTER, WHERE SPECIFIED ON CONSTRUCTION DRAWINGS, IN UNIFORM SECTIONS OF LENGTH SPECIFIED ON CONSTRUCTION DRAWINGS. FORM JOINTS BETWEEN SECTIONS EITHER BY STEEL TEMPLATES, 1/8-INCH IN THICKNESS, OF LENGTH EQUAL TO WIDTH OF CURB AND GUTTER, AND WITH DEPTH WHICH WILL PENETRATE AT LEAST 2-INCHES BELOW SURFACE OF CURB AND GUTTER; OR WITH 3/4-INCH THICK PERFORMED EXPANSION JOINT FILLER CUT TO EXACT CROSS SECTION OF CURB AND GUTTER; OR BY SAWING TO DEPTH OF AT LEAST 2-INCHES WHILE CONCRETE IS BELOW SURFACE AND 24 HOURS OLD. IF STEEL TEMPLATES ARE USED, THEY SHALL BE LEFT IN PLACE UNTIL CONCRETE HAS SET ENOUGH TO HOLD ITS SHAPE, BUT SHALL BE REMOVED WHILE FORMS ARE STILL IN PLACE.

2. **LONGITUDINAL CONSTRUCTION JOINTS:** THE CONCRETE CURB OR COMBINATION CONCRETE CURB AND GUTTER, WHERE SPECIFIED ON CONSTRUCTION DRAWINGS, TO CONCRETE PAVEMENT WITH 1/2-INCH ROUND DEFORMED REINFORCEMENT BARS OF LENGTH AND SPACING SHOWN ON CONSTRUCTION DRAWINGS.

3. **TRANSVERSE EXPANSION JOINTS:** CONCRETE CURB, SHALL HAVE FILLER CUT TO EXACT CROSS SECTION OF CURB, GUTTER, OR SIDEWALK. JOINTS SHALL BE SIMILAR TO TYPE OF EXPANSION JOINT USED IN ADJACENT PAVEMENT.

**JOINT FILLERS:**

EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT, AND NOT LESS THAN 1/2-INCH OR MORE THAN 1-INCH BELOW FINISHED SURFACE WHERE JOINT SEALER IS INDICATED. FURNISH JOINT FILLERS IN 1-PIECE LENGTHS FOR FULL WIDTH BEING PLACED, WHEREVER POSSIBLE. WHERE MORE THAN 1 LENGTH IS REQUIRED, LACE OR CLIP JOINT FILLER SECTIONS TOGETHER.

**JOINT SEALANTS:**

INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**CONCRETE FINISHING**

EXTEND STRIKING OFF AND CONSOLIDATING CONCRETE, SMOOTH SURFACE BY SCREENING AND FLOATING. ADJUST FLOATING TO COMPACT SURFACE AND PRODUCE UNIFORM TEXTURE. AFTER FLOATING, TEST SURFACE FOR TRUENESS WITH 10'-0" STRAIGHTEDGE. DISTRIBUTE CONCRETE AS REQUIRED TO REMOVE SURFACE IRREGULARITIES, AND REFLOAT REPAIRED AREAS TO PROVIDE CONTINUOUS SMOOTH FINISH.

WORK EDGES OF GUTTERS, BACK TOP EDGE OF CURB, AND FORMED JOINTS WITH EDGING TOOL, ROUNDING EDGE TO 1/2-INCH RADIUS. ELIMINATE TOOL MARKS ON CONCRETE SURFACE. AFTER COMPLETION OF FLOATING AND TROWELLING, WHEN EXCESS MOISTURE OR SURFACE SHEEN HAS DISAPPEARED, COMPLETE SURFACE FINISHING, AS FOLLOWS:

1. **CURBS:** BROOM FINISH BY DRAWING FINE-HAIR BROOM ACROSS SURFACE PERPENDICULAR TO FLOW OF TRAFFIC. REPEAT OPERATION AS NECESSARY TO PRODUCE FINE LINE TEXTURE.

2. **DO NOT REMOVE FORMS FOR 24 HOURS AFTER CONCRETE HAS BEEN PLACED.** AFTER FORM REMOVAL, CLEAN ENDS OF JOINTS AND POINT UP MINOR HONEYCOMBED AREAS. REMOVE AND REPLACE AREAS OR SECTIONS WITH MAJOR DEFECTS AS DIRECTED OWNER.

**CURING AND PROTECTION**

PROTECT AND CURE FINISHED CONCRETE PAVING USING WITH CURING COMPOUND OR WITH ACCEPTABLE MOIST CURING METHODS. CURE FOR A PERIOD NOT LESS THAN 7 DAYS. USE SOLVENT BASED CURING COMPOUND WHEN COMPOUND IS APPLIED BELOW 40 F.

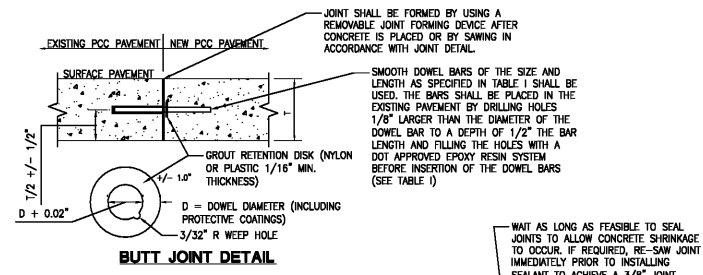
**BACKFILL**

AFTER CONCRETE HAS SET SUFFICIENTLY, SPACES ON EITHER SIDE OF CONCRETE CURB SHALL BE REFILLED TO REQUIRED ELEVATION WITH SUITABLE MATERIAL COMPACTED IN ACCORDANCE THE SITE PREPARATION NOTES.

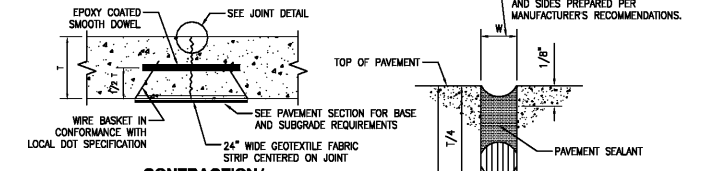
**CLEANING AND PROTECTION**

PRIOR TO FINAL INSPECTION AND ACCEPTANCE BY THE DEVELOPER, THE CONTRACTOR SHALL SWEEP CONCRETE PAVEMENT AND WASH FREE OF STAINS, DISCOLORATIONS, DIRT, AND OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL COORDINATE THE FINAL INSPECTION WITH THE DEVELOPER AND ENGINEER.

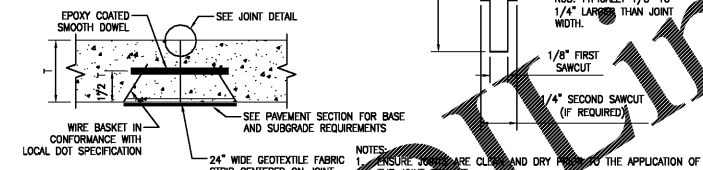
PROTECT CONCRETE FROM DAMAGE UNTIL ACCEPTANCE OF WORK. EXCLUDE TRAFFIC FROM PAVEMENT FOR AT LEAST 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVEMENT AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS.



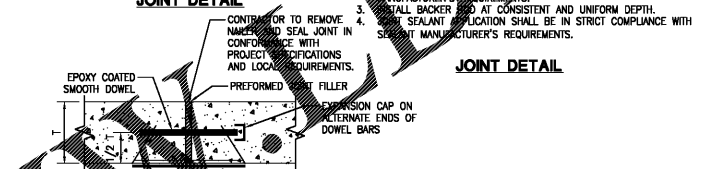
**BUTT JOINT DETAIL**



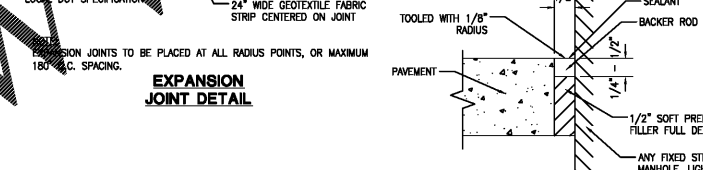
**CONTRACTION/CONTROL JOINT DETAIL**



**CONSTRUCTION JOINT DETAIL**



**EXPANSION JOINT DETAIL**

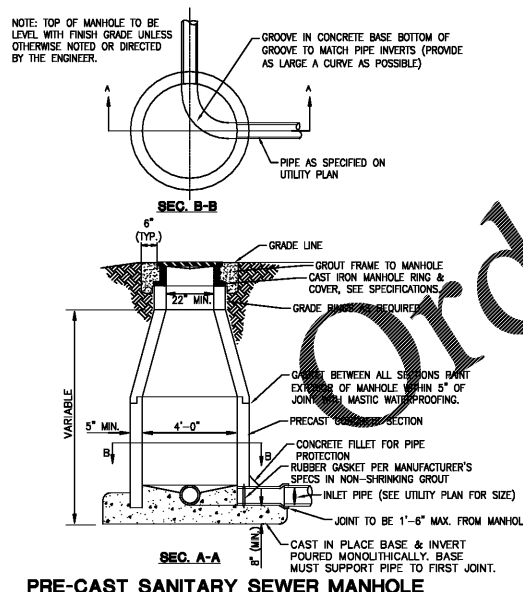


**ISOLATION JOINT AT STRUCTURES**

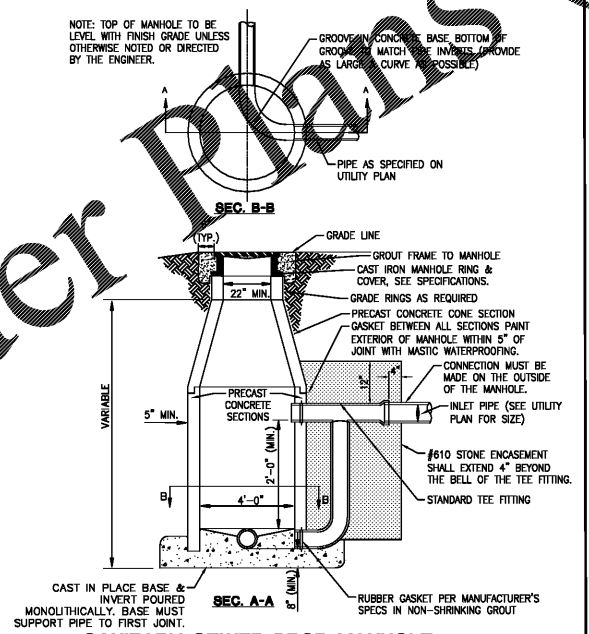
**TABLE 1**

PAVEMENT THICKNESS (IN)	SMOOTH DOWEL BARS SIZE Ø (IN)	SMOOTH DOWEL BARS LENGTH (IN)	SMOOTH DOWEL BARS SPACING (IN)	MINIMUM JOINT DEPTH (IN)
5"	1/2"	12"	18"	1 1/2"
6"	3/4"	14"	12"	1 3/4"
7"	1"	16"	12"	2"
8"	1 1/4"	18"	12"	3"
9"	1 1/4"	18"	12"	3"
10"	1 1/2"	18"	12"	3 1/4"

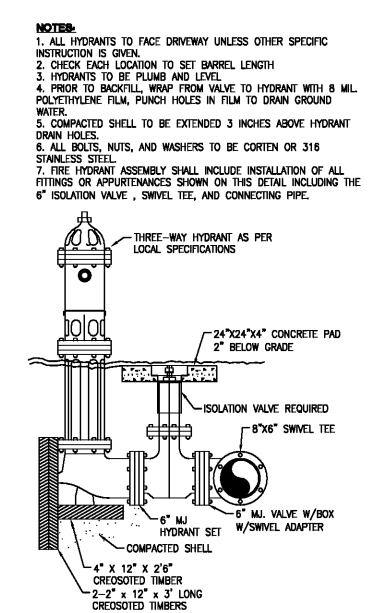
- NOTES:**
- JOINTS SHALL BE SAW CUT AS SOON AS THE CONCRETE HAS REACHED SUFFICIENT STRENGTH TO SUPPORT THE SAWING EQUIPMENT AND TEARING OF CONCRETE DOES NOT OCCUR.
  - GEOTEXTILE FABRIC SHALL BE CONSTRUCTED OF NON-WOVEN POLYPROPYLENE FIBERS RESISTANT TO CHEMICAL ATTACK, MILDEW, AND ROT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A GEOTEXTILE MATERIAL SUBMITTAL FOR APPROVAL.
  - CONSTRUCT EXPANSION, WEAKENED PLANE CONTROL (CONTRACTION), AND CONSTRUCTION JOINTS STRAIGHT WITH FACE PERPENDICULAR TO CONCRETE SURFACE.
  - CONSTRUCT CONTROL JOINTS FOR DEPTH EQUAL TO AT LEAST 1/4 OF THE CONCRETE THICKNESS AS FOLLOWS:
    - FORM TOoled JOINTS IN FRESH CONCRETE BY GROOVING TOP WITH RECOMMENDED TOOL AND FINISHING EDGE WITH JOINTER.
    - FORM SAWED JOINTS USING POWERED SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND RIMMED BLADES. CUT JOINTS INTO HARDENED CONCRETE AS SOON AS SURFACE WILL NOT BE TORN, ABRASION, OR OTHERWISE DAMAGED BY CUTTING ACTION.
  - CONSTRUCTION JOINTS: PLACE CONSTRUCTION JOINTS AT END OF PLACEMENTS AND AT LOCATIONS WHERE PLACEMENTS OPERATIONS ARE STOPPED FOR PERIOD OF MORE THAN 1/2 HOUR, EXCEPT WHERE SUCH PLACEMENTS TERMINATE AT EXPANSION JOINTS. CONSTRUCT JOINTS IN ACCORDANCE WITH DETAIL.
  - EXPANSION JOINTS: LOCATE EXPANSION JOINTS AT MAXIMUM OF 180'-0" ON CENTERS, MAXIMUM EACH WAY UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS. PROVIDE PRE-MOLDED JOINT FILLER FOR EXPANSION JOINTS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, SIDEWALKS, AND OTHER FIXED OBJECTS.
  - BUTT JOINTS: FOR JOINTS AGAINST EXISTING PAVEMENT, PLACE DOWELS OF THE SIZE INDICATED IN TABLE 1 INTO HOLES DRILLED INTO CENTER OF EXISTING SLAB. EPOXY DOWELS INTO HOLES WITH APPROVED EPOXY COMPOUND. PLACE DOWELS PRIOR TO CONCRETE PLACEMENT FOR NEW CONCRETE. DOWEL SPACING TO BE AS INDICATED IN TABLE 1. SAW JOINTS AND FILL WITH JOINT SEALER.
  - JOINT FILLERS: EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT, AND NOT LESS THAN 1/2-INCH OR MORE THAN 1-INCH BELOW FINISHED SURFACE WHERE JOINT SEALER IS INDICATED. FURNISH JOINT FILLERS IN 1-PIECE LENGTHS FOR FULL WIDTH BEING PLACED, WHEREVER POSSIBLE. WHERE MORE THAN 1 LENGTH IS REQUIRED LACE OR CLIP JOINT FILLER SECTIONS TOGETHER.
  - JOINT SEALANTS: JOINTS SHALL BE SEALED WITH APPROVED EXTERIOR PAVEMENT JOINT SEALANTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - DOWELS SHALL NOT BE PLACED CLOSER THAN 12" TO A JOINT INTERSECTION.



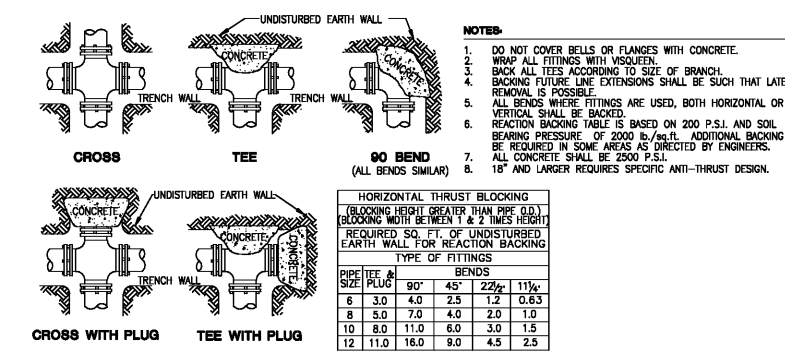
**PRE-CAST SANITARY SEWER MANHOLE**  
N.T.S.



**SANITARY SEWER DROP MANHOLE**  
N.T.S.



**TYPICAL FIRE HYDRANT ASSEMBLY**  
N.T.S.



**HORIZONTAL THRUST BLOCKING**  
N.T.S.

REVISION	BY

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