Bypass Overview

Locations displayed here including, but not limited to, the drain easement, rights-of-way and road centerlines are estimates only based on the best available GIS information.

NOTES:
1. NO TREE REMOVAL FOR BYPASS PIPE INSTALLATION SHALL BE PERMITTED.
2. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
3. NO EASEMENT FOR THE SWIFT RUN DRAIN LOCATED SOUTHEAST OF THE E. HURON RIVER DR. RIGHT-OF-WAY.
4. TRAFFIC CONTROL ALONG E. HURON RIVER DR. SHALL BE Per MDOT TYPICAL MD-11A. BYPASS PIPE SHALL MAINTAIN A MINIMUM 15’ SEPARATION FROM OUTSIDE EDGE OF TRAVEL LANE ALONG E. HURON RIVER DR. AND HOGBACK RD.
5. TRAFFIC CONTROL ALONG SB US-23 SHALL BE PER MDOT TYPICAL MD-12A. BYPASS PIPE SHALL MAINTAIN A MINIMUM 30’ SEPARATION FROM OUTSIDE EDGE OF TRAVEL LANE ALONG US-23.
6. BYPASS PIPE SHALL BE PRESSURE TESTED WITH POTABLE WATER BEFORE OPERATION.

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6. BYPASS PIPE SHALL BE PRESSURE TESTED WITH POTABLE WATER BEFORE OPERATION.
7. CONTRACTOR SHALL NOT IMPACT THE EXISTING CULVERTS.

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TYPICAL ROAD SECTION DETAILS

**NOTE:**

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

**E HURON RIVER SERVICE DRIVE AND THORNOAKS DRIVE TYPICAL SECTION**

- **Lowwer ByPass Pipe:** Below grade min. 2' outside of edge of pavement.
- **Min. 2" Cold Patch:** Varies.
- **18" SDR 11 HDPE Temporary ByPass Pipe:**
- **Min. 24" Bury Depth Beneath Pavement Surface:**
- **Restore and Establish Turf to Limits of Disturbance:** 4" Topsoil, Seed & Mulch Per MDOT Specifications.
- **Class II Granular Material:** Compacted to 95% of the Maximum Dry Density.
- **Aggregate Base Course, 21AA - C.I.P. 10 Inch Compacted to 98% As Determined by AASHTO T-180:**
- **HMA, LVSP, 220 LB/SYD (Top):**
- **HMA, LVSP, 250 LB/SYD (Base):**
- **Slope Varies:** Match Existing.
- **HMA, 13A, 165 LB/SYD (Top):**
- **HMA, 13A, 165 LB/SYD (Base):**

**HMA DRIVEWAY TYPICAL SECTION**

- **HMA DriveWAY TYPICAL SECTION:**
- **Restore and Establish Turf to Limits of Disturbance:** 4" Topsoil, Seed & Mulch Per MDOT Specifications.
- **Class II Granular Material:** Compacted to 95% of the Maximum Dry Density.
- **Aggregate Base Course, 21AA - C.I.P. 8 Inch Compacted to 98% As Determined by AASHTO T-180:**
- **HMA, LVSP, 220 LB/SYD (Top):**
- **HMA, LVSP, 250 LB/SYD (Base):**
- **Slope Varies:** Match Existing.
- **HMA, 13A, 165 LB/SYD (Top):**
- **HMA, 13A, 165 LB/SYD (Base):**
NOTE: THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

PROPOSED 18" HOPE DR-11 TEMPORARY BYPASS PIPE (19.5" OD AND 15.74" ID) RESTRAIN WITH CONCRETE BLOCKING AND RESTRANTS OR EQUIVALENT.

EXISTING 10' WIDE X 9' CONCRETE BOX CULVERT BENEATH E. HURON RIVER DRIVE AND US-23.

SWIFT RUN DRAIN

BOX CULVERT W/ BYPASS DETAIL