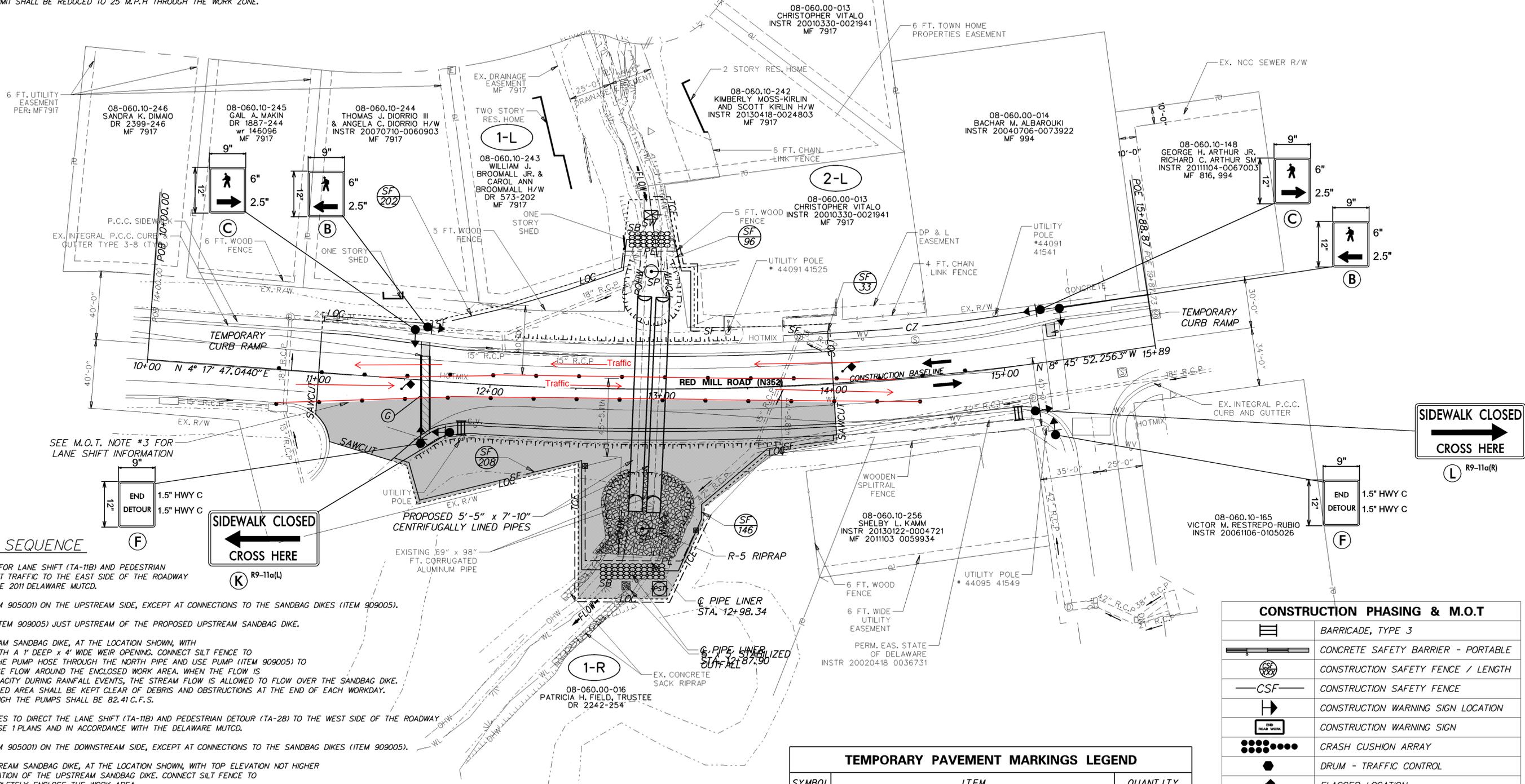


MAINTENANCE OF TRAFFIC NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE SHIFTS AND FOR PEDESTRIAN DETOURS SHALL CONFORM TO TYPICAL APPLICATION 11B AND 11-28 OF THE DELAWARE MUTCD, RESPECTIVELY. LANES 11 FEET WIDE SHALL BE MAINTAINED DURING LANE SHIFTS.
2. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING PAVEMENT OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F OF THE DELAWARE MUTCD.
3. USE A 50 FT TAPER LENGTH (TABLE 6C-3 IN DE MUTCD) BEGINNING FROM THE EDGE OF THE EXISTING LANES. FOR THE DURATION OF CONSTRUCTION, 11 FT. LANES SHALL BE MAINTAINED THROUGH THE WORK AREA AND THE SPEED LIMIT SHALL BE REDUCED TO 25 M.P.H THROUGH THE WORK ZONE.
4. WITHIN THE MAINLINE WORK AREA, PERMANENT ADVANCE WARNING SIGNS WITH THE LEGENDS "ROAD WORK 1500 FT", "ROAD WORK 1000 FT", AND "ROAD WORK 500 FT" SHALL BE INSTALLED IN ADVANCE OF THE WORK AREA IN BOTH DIRECTIONS. AN "END ROAD WORK" SIGN SHALL BE LOCATED 500 FEET DOWNSTREAM FROM THE WORK AREA. ON INTERSECTING ROADWAYS WITHIN THE PROJECT LIMITS, A "ROAD WORK AHEAD" SIGN SHALL BE PLACED AT A DISTANCE NOT LESS THAN 500 FEET DOWNSTREAM OF THE WORK AREA. ALL PERMANENT ADVANCE WARNING SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET, MEASURED FROM THE ROADWAY TO THE BOTTOM OF THE SIGN. THE USE OF SKID-MOUNTED SIGN SUPPORTS IS NOT ALLOWED UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT A UTILITY CONFLICT EXISTS, WHICH SHALL BE VERIFIED BY THE ENGINEER OR CONCRETE MEDIANS PREVENT THE INSTALLATION OF THE PERMANENT SIGNS IN THE APPROPRIATE LOCATION.



CONSTRUCTION SEQUENCE

1. INSTALL M.O.T. DEVICES FOR LANE SHIFT (TA-11B) AND PEDESTRIAN DETOUR (TA-28) TO SHIFT TRAFFIC TO THE EAST SIDE OF THE ROADWAY IN ACCORDANCE WITH THE 2011 DELAWARE MUTCD.
2. INSTALL SILT FENCE (ITEM 905001) ON THE UPSTREAM SIDE, EXCEPT AT CONNECTIONS TO THE SANDBAG DIKES (ITEM 909005).
3. INSTALL STILLING WELL (ITEM 909005) JUST UPSTREAM OF THE PROPOSED UPSTREAM SANDBAG DIKE.
4. CONSTRUCT THE UPSTREAM SANDBAG DIKE, AT THE LOCATION SHOWN, WITH TOP EL. OF 38.70 FT WITH A 1' DEEP x 4' WIDE WEIR OPENING. CONNECT SILT FENCE TO SANDBAG DIKE. PLACE THE PUMP HOSE THROUGH THE NORTH PIPE AND USE PUMP (ITEM 909005) TO DIVERT THE STREAM BASE FLOW AROUND THE ENCLOSED WORK AREA. WHEN THE FLOW IS HIGHER THAN PUMP CAPACITY DURING RAINFALL EVENTS, THE STREAM FLOW IS ALLOWED TO FLOW OVER THE SANDBAG DIKE. THEREFORE, THE ENCLOSED AREA SHALL BE KEPT CLEAR OF DEBRIS AND OBSTRUCTIONS AT THE END OF EACH WORKDAY. THE BASE FLOW THROUGH THE PUMPS SHALL BE 82.41 C.F.S.
5. REPOSITION M.O.T. DEVICES TO DIRECT THE LANE SHIFT (TA-11B) AND PEDESTRIAN DETOUR (TA-28) TO THE WEST SIDE OF THE ROADWAY AS SHOWN ON THE PHASE 1 PLANS AND IN ACCORDANCE WITH THE DELAWARE MUTCD.
6. INSTALL SILT FENCE (ITEM 905001) ON THE DOWNSTREAM SIDE, EXCEPT AT CONNECTIONS TO THE SANDBAG DIKES (ITEM 909005).
7. CONSTRUCT THE DOWNSTREAM SANDBAG DIKE, AT THE LOCATION SHOWN, WITH TOP ELEVATION NOT HIGHER THAN THE LOWEST ELEVATION OF THE UPSTREAM SANDBAG DIKE. CONNECT SILT FENCE TO SANDBAG DIKES TO COMPLETELY ENCLOSE THE WORK AREA.
8. INSTALL SUMP PIT (ITEM 906003) AND PORTABLE SEDIMENT TANK (ITEM 906001) AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 902 OF THE STANDARD SPECIFICATIONS. DISCHARGE CLEAN EFFLUENT FROM THE APPROVED SEDIMENT TRAPPING DEVICE AT THE STABILIZED OUTLET OF THE TEMPORARY DRAINAGE PIPE OR ON OTHER STABLE OUTLET AS APPROVED BY THE ENGINEER.
9. INSTALL 2" THICK CENTRIFUGALLY PLACED PIPE LINER MATERIAL IN THE SOUTH PIPE AS SPECIFIED IN THE SPECIFICATIONS. ONCE THE PIPE MATERIAL IS SUFFICIENTLY SET, ACCORDING TO THE SPECIFICATIONS, SHIFT THE PUMP HOSE TO FEED THROUGH THE SOUTH PIPE AND INSTALL 2" THICK CENTRIFUGALLY PLACED PIPE LINER MATERIAL IN THE NORTH PIPE.
10. PLACE RIPRAP AND STREAMBED MATERIAL, GRADE AND STABILIZE SIDESLOPES, AND MILL/OVERLAY THE WORK AREA.

TEMPORARY PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM | QUANTITY |
|--------|---|----------|
| (C) | WHITE TEMPORARY PEDESTRIAN CROSSING PAINT PAVEMENT SYMBOL (ITEM 748026) | 36.00 SF |

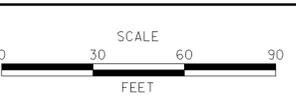
CONSTRUCTION PHASING & M.O.T

| | |
|--|------------------------------------|
| | BARRICADE, TYPE 3 |
| | CONCRETE SAFETY BARRIER - PORTABLE |
| | CONSTRUCTION SAFETY FENCE / LENGTH |
| | CONSTRUCTION SAFETY FENCE |
| | CONSTRUCTION WARNING SIGN LOCATION |
| | CONSTRUCTION WARNING SIGN |
| | CRASH CUSHION ARRAY |
| | DRUM - TRAFFIC CONTROL |
| | FLAGGER LOCATION |
| | PHASING TRAFFIC FLOW ARROW |
| | TEMPORARY CONSTRUCTION |
| | TEMPORARY PAVEMENT MARKING ARROW |
| | TRUCK WITH MOUNTED ATTENUATOR |
| | WORK AREA - ACTIVE PHASE |



ADDENDUMS / REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |



BR 1-239 ON N352 RED MILL ROAD OVER TRIBUTARY TO WHITE CLAY CREEK

| | | | |
|----------|------------|--------------|-------|
| CONTRACT | T201407101 | BRIDGE NO. | 1-239 |
| COUNTY | NEW CASTLE | DESIGNED BY: | GML |
| | | CHECKED BY: | CAS |

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1

| | |
|-------------|----|
| SHEET NO. | 11 |
| TOTAL SHTS. | 16 |

Y:\NEWCASTLE\Bridges\T201407101 1-239 Pipe Lining - Red Mill Road\Plans\exp\002.dgn