

ONTONAGON COUNTY ROAD COMMISSION

UTILITY CONSTRUCTION REQUIREMENTS

Effective Date: 03-08-2023

General Requirements:

All roadways to be affected by the construction either by the construction itself, or as haul routes will be completely inventoried as to surface type, width of paving, width of shoulders, drainage structures, depth of aggregate or paving material, diameter of drainage structures prior to the beginning of construction. A complete copy of the inventory will be supplied to the Ontonagon County Road Commission.

No warning or regulatory signs shall be removed, obstructed or rendered not visible under any circumstances without consulting with the Ontonagon County Road Commission engineer or staff.

Disposal of excavated materials: All soil, earth, stones, rock, etc., shall be disposed of according to all state and local laws and regulations. The filling of any portion of right-of-way, drainage ditches, etc., is absolutely forbidden.

Final approval of all roads and drainage facilities construction within the right-of-way shall be by the Ontonagon County Road Commission Manager or members of the staff.

CROSSING EXISTING STRUCTURES: During construction, it may be necessary to cross under existing sewers, drains, culverts, water lines, gas lines, electric conduits and other underground structures. The contractor shall protect such structures from damage or disturbance. In the event construction cannot proceed without damaging or disturbing existing structures, the contractor shall contact the owner of said structures and make arrangements to minimize the impact of disrupting said structure. The contractor shall be responsible for repairing or replacing all damaged structures at his own expense.

OPTIONAL CULVERT REPAIR: If the contractor encounters a deteriorated culvert which extends outside of a construction influence area and if he may elect to replace the entire structure including complete restoration rather than repairing only the disturbed section, the Ontonagon County Road Commission, at its option, may elect to furnish all or a part of the deteriorated culvert replacement at no cost to the Contractor.

ROADSIDE DITCHES AND CULVERTS: All roadside ditches and driveway culverts shall be cleaned, repaired and/or replaced to the same or better condition as existed before trenching operations commenced using approved materials, bands, etc. All culvert or waterway openings will be replaced to original dimensions and to the satisfaction of the Ontonagon County Road Commission at the expense of the contractor.

PAVEMENT RESTORATION:

GENERAL: All paved surfaces and shoulders shall be restored to original dimensions, except that no lanes shall be paved less than 9' in width per lane or 18' in total width.

LONGITUDINAL OR TRANSVERSE PAVEMENT RESTORATION: When pavement surfaces are damaged by either facility location necessity, or by construction operations, restoration shall be performed in full lane increments, no fractional lane width patching shall be permitted.

For example:

1. On a 22'0 wide road:

If a 6' width of surface is disturbed, one lane or 11' wide shall be restored.

2. On a 20'0 wide road:

If a 12' width of surface is disturbed, the entire 20'0 width shall be restored.

3. On a 10'0 wide parking lane:

If an 8' width of surface is disturbed, the entire 10' width shall be restored.

4. For spot repairs such as a utility service connection cut perpendicular to the road centerline:

The patch shall be long enough to accommodate the trench width as specified and shall be in full lane increments in width.

All edges are to be saw-cut and either on a pavement joint or perpendicular to the direction of traffic unless otherwise approved by the county engineer.

In the case of multiple road crossings, if less than 100' of existing pavement remains between patches, the trench area and the entire existing pavement between those patches shall be restored or overlain as directed by the county highway engineer.

5. All pavement thicknesses shall be approved by the county highway engineer.

CONSTRUCTION METHODS: When a trench must be cut through paved areas (concrete or asphalt) such as roadways, driveways, sidewalks or parking lots, particular care shall be taken not to unnecessarily damage the adjoining areas of pavement, driveways or sidewalks. All cuts through existing surfaces shall be made with a concrete saw, sawing deep enough to allow a straight cut parallel with longitudinal and traverse construction or contraction joints.

All trenches in paved streets, roadways, parking areas, and driveways shall be backfilled with select backfill from a minimum of 8" below the finished grade of the pavement. The select backfill shall be placed in not more than 6" layers and thoroughly and uniformly compacted by machine tamping to not less than 95% of the maximum unit weight.

Material excavated from the trench may be used as select backfill when approved in writing by the county highway engineer. The material to be used for select backfill shall meet the following gradation:

Sieve Size	Percent Passing
2"	100
1"	60-100
No. 100	0-30
Loss by washing	0-7

Trenches not in paved streets, roadways, parking areas or driveways shall be backfilled from a level of one foot above the pipe to the ground surface with existing material. Topsoil, seed, fertilizer and mulch will be required to restore areas disturbed outside of the pavement limits.

In either paved or unpaved areas, any depression resulting from settlement of the trench backfill within 18 months of the completion of the work will be repaired by the contractor.

A bond may be required.

MATERIALS - per current MDOT specifications

Bituminous surfaces

ITEM	MINIMUM FOR ALL PAVED SURFACES	FOR ALL SEASON PAVED ROUTES
Sand subbase	12" Cl. II	12" Cl. II or match existing
Agg. base	6" 22A	8" 22A
Wearing course	220#/sy. HMA 5EL 58-28 PG asphalt	330#/sy., 2 courses, HMA 5EL, 58-28 PG asphalt