



1584 Hadley Avenue N | Oakdale, MN 55128
651-739-5086 | www.ci.oakdale.mn.us

REMOVING PAVEMENT AND MISCELLANEOUS STRUCTURES (OAKDALE 2104)

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Removal and Disposal of:
 - a. Pavements
 - b. Sewers and Appurtenances
 - c. Watermain
 - d. Culverts
 - e. Curbs
 - f. Miscellaneous Debris
 - g. Lighting Bases
2. Salvaging of Designated Materials:
 - a. Castings
 - b. Hydrants
 - c. Signs
 - d. Fencing
 - e. Sprinkler System
 - f. Lighting Units
3. Abandon Existing Sanitary Sewer and Water Main
4. Backfilling of Resulting Depressions

B. Related Sections:

1. Section 2105 – Excavation and Embankment

C. Method of Measurement:

1. General:
 - a. Only materials and items designated for removal will be measured.
 - b. Removal and salvage items will be measured separately as identified by the Item Name.
2. Measurement by Area:
 - a. Surface of uniform thickness will be measured by area in square units.
3. Measurement by Length:
 - a. Length measurements will be made along the longitudinal centerline.
 - b. Pipe measurements will be made to the center of structures and to the end of aprons.
 - c. Concrete pavement sawing will be measured along the staked cut line. No measurement will be made for sawcutting bituminous pavements.
4. Measurement by Volume:
 - a. Volumes will be determined from field measurements of material actually removed.
5. Measurement by Number (Complete Unit):
 - a. Items will be measured separately by the number of units including appurtenances.

- b. Removal of signs will be measured as one unit per sign post regardless of the number of signs on the post.
- 6. Salvage and Install Sprinkler System and Fencing:
 - a. Measure by distance in feet.
 - b. Includes all labor, equipment, and materials.
- 7. Debris Removal:
 - a. Measure by volume in cubic yards of existing culverts, concrete and other miscellaneous material hauled off-site as directed by the Engineer. Loading materials into truck measured separately as labor and equipment time.
- 8. Salvage and Install Casting:
 - a. Measure as a unit.
 - b. Includes salvaging existing casting, removing all rings, furnishing and installing new HDPE rings (and neoprene sleeve on all sanitary castings), and installing existing casting.
- 9. Abandon Existing Sanitary Sewer and Water Main:
 - a. Measure abandonment of the existing system as a lump sum.
 - b. Includes all labor, equipment and materials necessary to isolate and cut, drain and plug existing water main and to plug and fill existing sanitary sewer with sand.

D. Basis of Payment:

- 1. Removal of abandoned fences shall be considered incidental.
- 2. Removal of bituminous curbing and sawing bituminous pavements shall be considered incidental.
- 3. Milling of bituminous pavement for curb removal shall be considered incidental.
- 4. Only items removed in acceptable condition will be measured as salvage.
- 5. Items proposed for salvage which are damaged by Contractor's negligence shall be replaced at Contractor's expense.
- 6. Backfilling of depressions resulting from removals shall be considered as embankment under Section 2105.
- 7. Payment for acceptable quantities of removal, salvage, or abandonment items shall be at the Contract Unit Price as listed on the Bid Form. All associated Work items shall be considered incidental.

1.02 REFERENCES

- A. MnDOT 2104

1.03 PROJECT/SITE CONDITIONS

- A. Do not conduct on-site burning operations.
- B. Do not use explosives for structure removal operations.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.01 PREPARATION

- A. Protection:
 - 1. Protect all in-place structures and facilities not designated for removal.
 - 2. Protect and maintain all benchmarks and survey control points.
 - 3. Coordinate removals to minimize impact on vehicular and pedestrian traffic.
- B. Sawing Pavement:
 - 1. Saw concrete pavement along removal lines to a depth of 1/3 of the pavement thickness.
 - 2. Saw bituminous pavement along removal lines through entire pavement thickness.
 - 3. Produce a neat, square edge prior to restoration.
 - 4. Paint all ends of steel reinforcements in remaining concrete cross-section to prevent corrosion.
- C. Existing Piping of Utilities:
 - 1. Determine requirements for disconnecting capping and protection.
 - 2. Before starting Site operations, disconnect or arrange for disconnection of utility services designated to be removed in accordance with requirements of utility company or agency.
 - 3. Repair damaged utilities or piping at no cost to Owner.
 - 4. Plug all ends of drainage, sewer or water main pipes to be abandoned.
 - 5. Preserve in operating condition active utilities traversing site and designated to remain.
 - 6. Completely fill all abandoned sewer with sand.

3.02 REMOVAL OPERATIONS

- A. Remove only structures and facilities that have been marked by Engineer.
- B. Complete all removal operations prior to adjacent new construction.
- C. Remove materials designated for salvage in a manner that will not result in damage. All damaged material will be replaced at Contractor's expense with no compensation by Owner.
- D. Prior to construction, relocate all mail and other delivery boxes to a location which will allow delivery during construction. Contractor shall coordinate temporary location with U.S. Postal Service and other affected delivery services.
- E. Completely remove structures which are designated for removal.
- F. Whenever possible, remove concrete to an existing joint.
- G. When removing guardrail and fences for salvage, neatly coil wire and cable, pull posts from the ground, and remove nails and staples from posts and boards.

3.03 DISPOSAL OF MATERIALS & DEBRIS

- A. Stockpile all materials designated for salvage at locations approved by Engineer.

- B. Dispose of all materials not designated for salvage in accordance with all applicable laws and ordinances.

3.04 INSTALLATION OF SALVAGED MATERIALS

- A. Install all salvaged materials as shown in Drawing Details and in locations as directed by Engineer.
- B. Quality to meet or exceed original installation.
- C. Replace all materials damaged during salvage and installation operations.
- D. Deliver all salvaged materials not used on project to the Owner at:
 - 1. Oakdale Public Works Building
1900 Hadley Avenue North
Oakdale, MN 55128

3.05 BACKFILLING DEPRESSIONS

- A. Backfill all depressions resulting from removals in accordance with Section 2105.
- B. If the remains of partially removed structures prevent natural filtration of water, perforate structure bottoms prior to placing backfill to prevent entrapment of water.
- C. Install all salvaged materials as shown in Drawing Details and in locations as directed by Engineer.
- D. Quality to meet or exceed original installation.
- E. Deliver all salvaged materials not used on project to the Owner at:
 - 1. Oakdale Public Works Building
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END OF SECTION