LETTING DATE **12-15-26**

CLEARING

MP-001-6(726)98--76-52

JOHNSON/LINN CO

# IOWA DOT

REVISIONS

| | TOTAL |
|---|---|
| | 5 |
| PROJECT IDENTIFICATION NUMBER | |
| 27-52-001-010 | |
| PROJECT NUMBER | |
| MP-001-6(726)98--76-52 | |
| R.O.W. PROJECT NUMBER | |

PLANS OF PROPOSED IMPROVEMENT ON THE

# PRIMARY ROAD SYSTEM

# JOHNSON/LINN CO

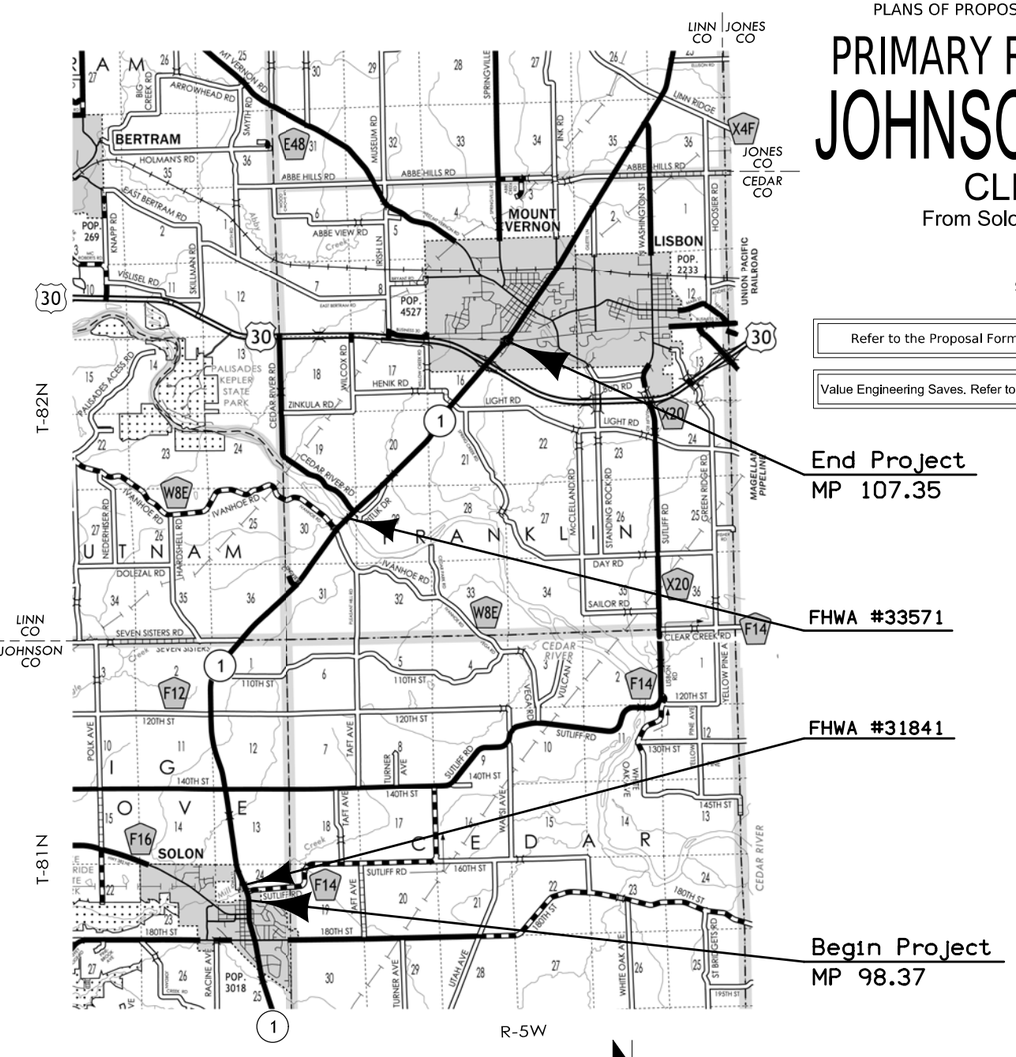
## CLEARING

From Solon to Mount Vernon

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.13 of the Specifications.



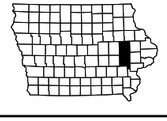

## INDEX OF SHEETS

| No. | DESCRIPTION |
|---|---|
| **A Sheet** | **Title Sheet** |
| A.1 | Title Sheet |
| **C Sheets** | **Quantities and General Information** |
| C.1 - 3 | Quantities and General Information |
| **J Sheet** | **Traffic Control** |
| J.1 | Traffic Control Plan |

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

Scan the QR code or click the link below to leave plan quality feedback and help us improve future projects.

**Design QR Feedback Link**



LOCATION MAP SCALE
0 1 2 3
Miles

## DESIGN DATA RURAL

| | | | |
|---|---|---|---|
| 2024 | AADT | 8,100 | V.P.D. |
| 20 -- | AADT | – | V.P.D. |
| 20 -- | DHV | – | V.P.H. |
| TRUCKS | | 10 | % |
| Total Design ESALs | | – | |

## ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
Mark K. Harle
19943
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature 10/1/2026 Date

Mark K. Harle
Printed or Typed Name

My license renewal date is December 31, 2027

Pages or sheets covered by this seal: ALL

| FILE NO. | ENGLISH | DESIGN TEAM Harle/Holub | JOHNSON/LINN COUNTY | PROJECT NUMBER MP-001-6(726)98--76-52 | SHEET NUMBER A.1 |
|---|---|---|---|---|---|

10:11:28 AM 9/22/2026 rholub pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\5200101027\DistrictDesign\52001726a01.dgn

# ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : MP-001-6(726)98--76-52

| Item no. | Item Code | Item | Unit | Quantities Estimated Roadway Items | Estimate Reference Notes |
|---|---|---|---|---|---|
| 1 | 2101-0850002 | CLEARING AND GRUBBING | UNIT | 1,006.4 | Item is for clearing trees at various locations within the project limits. Refer to Tab. 110-17.<br>The engineer will mark all trees that are scheduled for clearing.<br>All cleared trees shall be removed to the ground line. Grubbing will not be required.<br>All material resulting from clearing shall become the property of the contractor and shall be removed from the right-of-way.<br>Driving equipment into or across streams shall be prohibited. Crossing streams will only be permitted on the roadway or roadway embankment. |
| 2 | 2528-8445110 | TRAFFIC CONTROL | LS | 1 | Refer to Tab. 108-23A. |
| 3 | 2528-8445113 | FLAGGERS | EACH | 0 | See Proposal. |
| 4 | 2528-8445116 | FLAGGER WITH AFAD | EACH | 0 | See Proposal. |
| 5 | 2533-4980005 | MOBILIZATION | LS | 1 | |
| 6 | 2601-3000201 | HERBICIDE APPLICATION, CUT STUMP | EACH | 1,192 | Refer to Standard Notes SN-1 and Standard Note 231-2 for requirements. |
| | | | | | |

100-1D
10-18-05

## PROJECT DESCRIPTION

This project is located on Iowa 1 in Johnson and Linn Counties from Solon to Mount Vernon.
The work includes clearing and removal of trees from the right-of-way.

105-4
10-18-11

## STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

| Number | Date | Title |
|---|---|---|
| TC-1 | 10-15-19 | Work Not Affecting Traffic (Two-Lane or Multi-Lane) |
| TC-202 | 04-18-23 | Work Within 15 ft of Traveled Way |
| TC-213 | 04-18-23 | Lane Closure with Flaggers |

## GRUBBING RESTRICTION

Milepost 98.42 to Milepost 106.00

NOTE: Grubbing will not be required at any location within the project limits and will not be permitted within the limits identified in this tabulation.

232-3A
10-19-21

## EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

262-6
10-18-05

## UTILITIES (NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

110-17
04-18-17

## CLEARING AND GRUBBING

| Location | | | Trees, Stumps, and Logs and Down Timber Material Diameters | | | | | | | | | | | | All Other Materials | | Estimated Quantities | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Station to Station or Ref. Loc. Sign to Ref. Loc. Sign or Description | Direction of Travel | Work and Material Type | 3"-6" | >6"-9" | >9"-12" | >12"-15" | >15"-18" | >18"-24" | >24"-30" | >30"-36" | >36"-42" | >42"-48" | >48"-60" | >60"-72" | >72" | Length FT | Width FT | Units | Area Acres | Herbicide Application Each | Remarks |
| Milepost 98.42 to Milepost 106.00 | Both | Trees - Clearing | 784 | 273 | 71 | 64 | | | | | | | | | | | | 1006.4 | | 1192 | |

# SPECIAL NOTES

**Item # 2101-0850002 - CLEARING AND GRUBBING**

Coordinate these items with bid item “Herbicide Application, Cut Stump”.
Clear trees and brush to ground line. Grubbing will not be required.
Material disposal:
Material disposal will not be measured for payment. Process trees, brush and down timber by either of the following methods:
A. Remove whole from the right of way.
B. Chip material in place and remove from the right of way.
Do not stockpile any material within 30 feet of the shoulder before removing from the right of way.
Seed disturbed areas according to standard note 232-3A.

**Item # 2601-3000201 - HERBICIDE APPLICATION, CUT STUMP**

Coordinate this item with bid item “Clearing and Grubbing”.
Furnish and apply herbicide to cut stumps of cleared trees and brush.
Includes locating stumps and furnishing and applying herbicide and related activities with no extra compensation allowed.
Refer to Standard Note 231-2.

Treatment #1: (Only for use on stumps that will be treated with herbicide immediately after cutting)

Cut stumps to ground line prior to herbicide application and brush away sawdust from the cut surface.
Within 5 minutes of the stump cut, apply triclopyr herbicide. Leave stumps without any additional cutting or grinding for 6 weeks after herbicide treatment to allow time for the herbicide to translocate.
Use a water-based triethylamine salt formulation of triclopyr herbicide, labeled for use in and around standing water. Mix and apply the herbicide according to label directions for cut stump treatment.
Apply the herbicide at 3 lbs./gal. acid equivalent of triclopyr (for example, for 3 lbs. ae/gal products apply undiluted.) Apply the herbicide using a brush or directed spray, wetting the outer 2 inches of sapwood and the cambium (the tissue just inside of the bark,) including the entire circumference and any torn bark areas. It is not necessary to treat the bark on the sides of the stump or exposed roots

Treatment #2: (Alternative treatment if stumps will not be treated with herbicide immediately after cutting)

Cut stumps initially to a height of not less than 6 inches and flag to relocate for herbicide treatment.
Apply triclopyr herbicide within 7 days of the stump cut. After treating with herbicide, leave stumps without further cutting for not less than 6 weeks to allow time for the herbicide to translocate, then cut or grind stumps to ground line with no additional compensation allowed.
Use an oil-soluble formulation of triclopyr, labeled for use on non-irrigation ditch banks and seasonally dry wetlands. Mix the herbicide with an oil carrier to a concentration of 1.0 lb./gal acid equivalent of triclopyr (for example, for 4 lb. ae/gal products, mix 32 oz. product/gal. solution, for a 25% solution.)
For the oil carrier, use a penetrating oil labeled for basal or cut-stump treatment: diesel fuel and kerosene-based products will not be accepted. “Ready-to-Use” formulations of 0.75 lb./gal triclopyr acid equivalent will also be accepted.
Mix and apply the herbicide according to label directions for cut stump treatment. Apply the herbicide mixture to the outer 2 inches of the cut surface, wetting the sapwood and cambium (the tissue just inside of the bark layer) around the entire circumference, also wetting the sides of the stump to ground line and any exposed roots. It is a violation of federal law to apply this herbicide to areas with standing or flowing water. If soil is saturated or there is standing water in the spray area, see treatment #1.
Caution: This herbicide is volatile and may cause off-target damage if used when temperatures exceed 85 degrees F. during the three days following application.

Preapproved products:

Triclopyr herbicide in a water-based formulation:
Garlon 3A
Tahoe 3A Herbicide
Ecotriclopyr
Vastlan

Triclopyr herbicide in an oil-soluble formulation:
Garlon 4 Ultra
Tahoe 4E Herbicide
Triclopyr 4EC
Pathfinder II
Custom blended pre-mixes must be approved by the Engineer

Oil carrier
Bark Oil Blue LT
Diluent Blue
Proprietary oil contained in Pathfinder II

Dye
Hi-Light Blue
Dye contained in Diluent Blue, Bark Oil Blue, or Pathfinder II

Method of Measurement and Basis of Payment:
The contractor will be paid the contract price for herbicide treatment according to the following schedule:

Treatment #1
The Contractor will be paid the contract price for herbicide treatment.

Treatment #2
The Contractor will be paid 80% of the contract price upon the completion of herbicide treatment.
The Contractor will be paid 20% of the contract price upon the completion of cutting stumps to ground line.



# HERBICIDE

For all herbicide applications, the following provisions shall apply.

1. Follow all laws, rules and regulations related to the handling of pesticides, including but not limited to:
   a. Follow all herbicide label directions, restrictions, and precautions.
   b. The company responsible for the herbicide applicator must be licensed with Iowa Department of Agriculture and Land Stewardship (IDALS) as a commercial pesticide applicator company.
   c. The person applying the herbicide must be certified through IDALS as a pesticide applicator in Category 6, Right-of-Way. For herbicide applications that require an aquatic certification, the applicator must also be certified as a pesticide applicator in Category 5, Aquatics.
   d. Use herbicide and adjuvant products labeled for the application site:
      i. For applications on the primary highway right-of-way, use only products labeled for use on highway rights-of-way or roadsides.
      ii. For applications to or over water, use only products labeled for corresponding use in aquatic sites, unless intermittent pockets of standing water, such as tire ruts, and the product is labeled for such use.
      iii. For applications to areas in the water conveyance portion of the ditch that do not contain water at the time of application, use only products labeled for non-irrigation ditch banks or aquatic sites.
   e. Do not apply any herbicide to or over standing or flowing water unless required coverage is obtained under a National Pollutant Discharge and Elimination System (NPDES) Pesticide Discharge Permit through Iowa DNR. If standing or flowing water is encountered in areas when they need to be sprayed, notify Iowa DOT (Roadside Development) to determine required coverage.

2. Schedule work according to weather conditions and take measures to avoid off-target damage, such as runoff, leaching, drift and volatilization.
   a. Do not spray herbicide 24 hours prior to forecast precipitation that is expected to cause significant runoff conditions.
   b. For areas with saturated soil, such as ditch bottoms, do not spray herbicide 24 hours prior to forecast precipitation, unless using products labeled for aquatic sites.
   c. For conventional applications, avoid applications when wind speed exceeds 10 mph. For invert applications, avoid applications when wind speed exceeds 15 mph.
   d. For conventional foliar applications, use a drift retardant and maintain drift control throughout the application period by adding more to the tank as it breaks down from agitation.
   e. Avoid spraying volatile products when temperatures are forecast to exceed 85° F within 3 days.
   f. Check the IDALS Sensitive Crops Directory and do not spray adjacent to a listed operation when wind is blowing towards it.

3. Respond to allegations of any off-target damage attributed to handling and spraying of herbicide.

4. Provide the following documents to the Engineer for approval not less than 2 weeks prior to the application.
   a. A copy of the herbicide and adjuvant labels, including any applicable supplemental labels.
   b. A copy of the herbicide and adjuvant Material Safety Data Sheets (MSDS.)

5. Have copies of the herbicide and adjuvant labels and MSDSs on-hand and at locations of storage, transport, and application.

6. Schedule work to maximize efficiency of the herbicide application in relation to weather conditions and plant growth stage. Follow any label recommendations given as “for best results.”
   a. For weed applications:
      i. To determine if weeds are “actively growing,” use as a guideline that there needs to have been at least 1 hour of temperature above 65° F and 1 hour of sun in the day prior to, of, or forecast before a rain the day after the application.
      ii. For spring applications to thistles, apply after basal leaves of Canada thistles are fully extended, and after rosettes of musk thistle are at least 8 inches diameter, but before flower stage.
      iii. For fall applications to thistles, apply prior to the second hard freeze of 28° F, unless otherwise listed in the label directions.

231-2
04-21-20

# HERBICIDE

   b. For tree and brush applications:
      i. For foliar applications and cut stump/surface applications with water-soluble products, apply after leaves are fully opened in the spring and prior to leaf discoloration in the fall.
      ii. For cut stump applications with oil soluble products, do not apply during periods of heavy sap flow. Use as a guideline that heavy sap flow occurs in late winter to early spring when nighttime temperatures below 32° F are followed by daytime temperatures above 32° F with sunny conditions.
      iii. For cut stump and basal bark applications, add sufficient dye so that treated areas are visible to inspection 7 days after application.

7. Notify the Engineer prior to calibrating, mixing and applying herbicides, including incidental items.

8. Provide copies of daily spray logs to the RCE at the end of each week of spraying (form provided by Iowa DOT).

9. If Contractor does not complete spray item on schedule, the Engineer may adjust the schedule.

108-23A
08-01-08

## TRAFFIC CONTROL PLAN

1. Through traffic will be maintained on the project at all times.

2. Lane closures will not be permitted Monday through Friday from 6:00 a.m. to 9:00 a.m. or from 4:00 p.m. to 7:00 p.m.
   Lane closures will also not be permitted on Iowa Football home game days.

111-01
04-17-12

## COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

| Project | Type of Work |
|---|---|
| NHSX-001-6(044)--3H-57 | PCC Pavement - Grade & Replace |
| NHSN-001-6(045)--2R-57 | PCC Sidewalk |
| MP-001-6(727)98--76-52 | HMA Crack Filling |

108-25
10-21-14

## 511 TRAVEL RESTRICTIONS

| Route | Direction | County | Location Description | Feature Crossed | Object Type | Maint. Bridge No., Structure ID, or FHWA No. | Type of Restriction | Existing Measurement | Construction Measurement | Construction Measurement as Signed | Projected As Built Measurement | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iowa 1 | Both | Johnson | 0.1 mile north of Solon (FHWA #31841) | Mill Creek | Traffic Control Device | 5298.6S001 | Horizontal | 40' | 13' | N/A | | |
| Iowa 1 | Both | Linn | 2.8 miles south of the junction with US 30 (FHWA #33571) | Cedar River | Traffic Control Device | 5704.2S001 | Horizontal | 40' | 13' | N/A | | |