

|                   |                      |
|-------------------|----------------------|
| 04-30-02          | 101-4                |
| DESIGN DATA RURAL |                      |
| 2023              | AADT 320-1140 V.P.D. |
| 2045              | AADT 390-1390 V.P.D. |
| 2038              | DHV V.P.H.           |
| TRUCKS            | %                    |
| Total             |                      |
| Design ESALs      |                      |

IOWA  
DEPARTMENT OF TRANSPORTATION  
HIGHWAY DIVISION  
PLANS OF PROPOSED IMPROVEMENT ON THE  
FARM TO MARKET SYSTEM  
LEE COUNTY

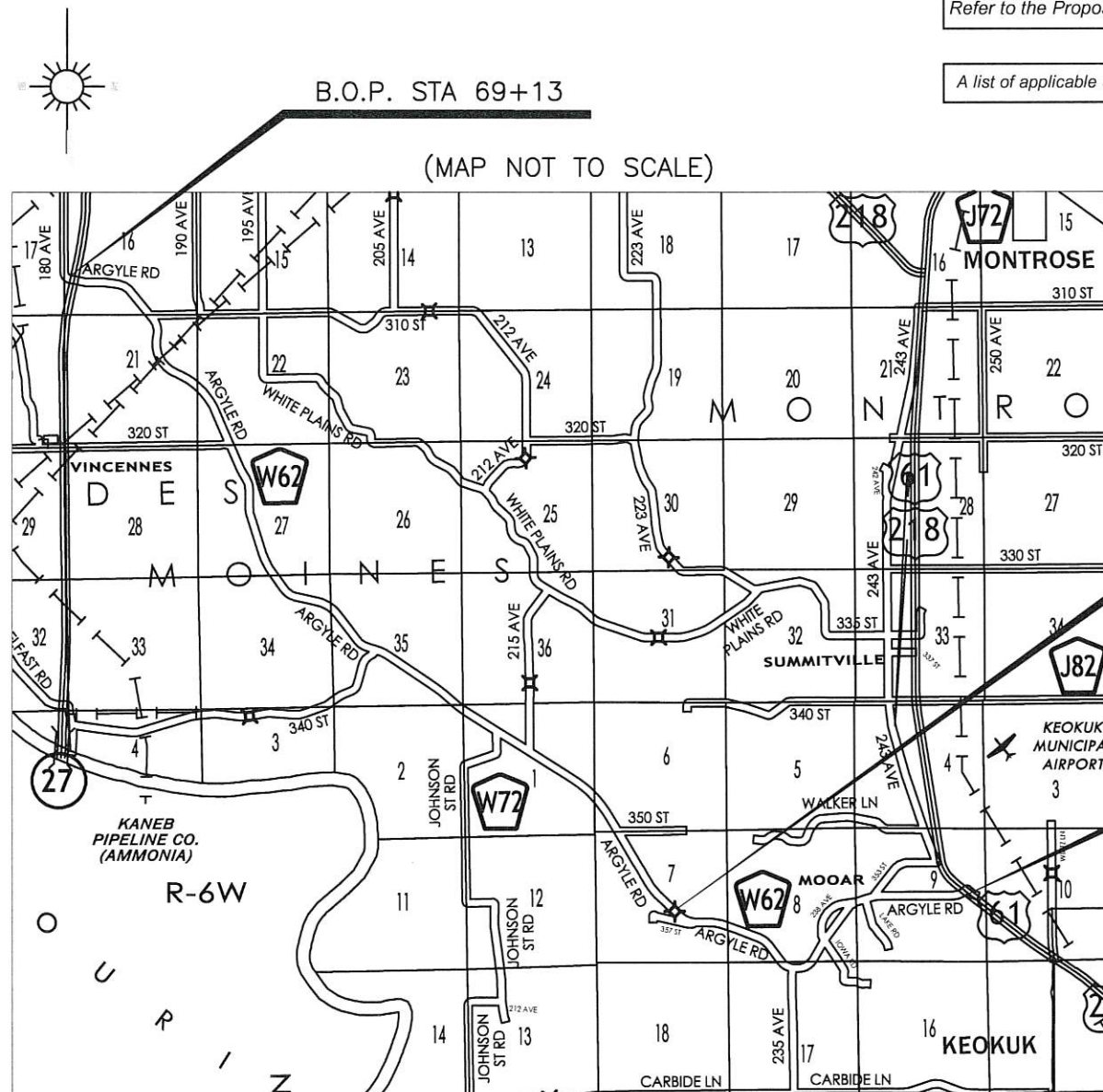
HMA RESURFACING WITH MILLING

Project No. STP-S-C056(124)--5E-56

On W 62, from HWY 27 E approx. 9.5 miles to Hwy 61

Refer to the Proposal Form for list of applicable specifications.

A list of applicable Standard Road Plans are listed on Sheet C.2.



U.A.C. EXISTING BRIDGE  
Jackson #204  
FHWA #217820

E.O.P. STA 579+77



Utility Contact Information is listed on Sheet C.2.

Project No. STP-S-C056(124)--5E-56

| INDEX OF SHEETS                                                                           |                                                        |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------|
| No.                                                                                       | Description                                            |
| A.1                                                                                       | TITLE SHEET                                            |
| B.1-B.2                                                                                   | TYPICAL SECTION AND DETAILS                            |
| C.1                                                                                       | ESTIMATE OF QUANTITIES, BID INFORMATION, GENERAL NOTES |
| C.2-C.9                                                                                   | TABULATIONS                                            |
| G.1-G.3                                                                                   | SURVEY INFORMATION                                     |
| 15 SHEETS TOTAL                                                                           |                                                        |
| A copy of the existing paving profiles are available at the Lee County Engineer's Office. |                                                        |

| MILEAGE SUMMARY |                                |           |       |
|-----------------|--------------------------------|-----------|-------|
| Div.            | Location                       | Lin.Ft.   | Miles |
|                 | STA. 69+13 - STA. 579+77       | 51,064.00 | 9.67  |
|                 | PCC Pvmnt Sta.69+13 - 77+22    | -809.00   | -0.15 |
|                 | Bridge STA 440+08 - STA.442+33 | -225.00   | -0.04 |
|                 | PCC Pvmnt Sta.578+44 - 579+77  | -133.00   | -0.03 |
|                 | NET FOR RESURFACING            | 49,897    | 9.45  |

*Charles Holman*

*Henry W. Jell*

*Charles Holman*

*DA Mike Al*

*Dennis Frane*

Approved date: 8-4-26  
Lee County Board of Supervisors



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.

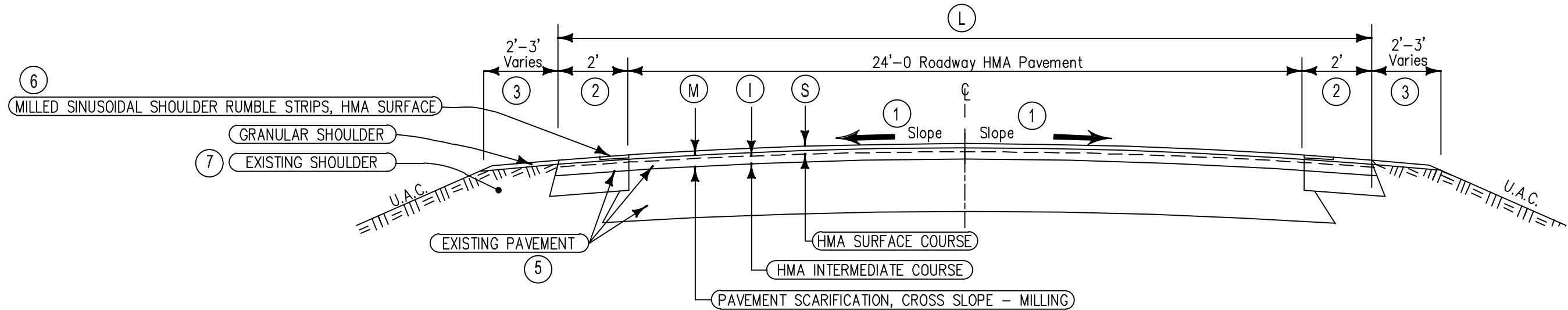
*Benjamin J. Hull* 8-4-26  
Benjamin J. Hull date  
License number 18426  
My license renewal date is December 31, 2026  
Pages or sheets covered by this seal:  
All

| DESIGN RATES        |                   |
|---------------------|-------------------|
| ITEM                | RATE              |
| SURFACE COURSE      | 145 LBS./CU. FT.  |
| INTERMEDIATE COURSE | 145 LBS./CU. FT.  |
| TACK COAT (4)       | 0.05 GAL./SQ. YD. |

TYPICAL CROSS SECTION  
HMA RESURFACING with MILLING

Sta. 77+22 - 440+08  
Sta. 442+33 - 578+44

|        |
|--------|
| LEE CO |
| 2602   |



| TABLE OF MAINLINE DESIGN QUANTITIES PER STATION |        |        |     |     |   |    |                        |                        |                        |                    |                                        |
|-------------------------------------------------|--------|--------|-----|-----|---|----|------------------------|------------------------|------------------------|--------------------|----------------------------------------|
| LOCATION                                        |        |        | Ⓢ   | Ⓜ   | Ⓜ | Ⓛ  | TACK COAT<br>Gallons Ⓞ | ASPHALT BINDER<br>Tons | HOT MIX ASPHALT (Tons) |                    | PAVEMENT SCARIFICATION (MILLING)<br>SY |
|                                                 |        |        |     |     |   |    |                        |                        | ROAD IDENTIFICATION    | STATION TO STATION |                                        |
| W62                                             | 77+22  | 440+08 | 1.5 |     |   | 28 | 15.55                  | 1.52                   | 25.38                  |                    |                                        |
| W62                                             | 77+22  | 440+08 |     | 1.5 |   | 28 | 15.55                  | 1.52                   |                        | 25.38              |                                        |
| W62                                             | 77+22  | 440+08 |     |     | 2 | 28 |                        |                        |                        |                    | 311.11                                 |
|                                                 |        |        |     |     |   |    |                        |                        |                        |                    |                                        |
| W62                                             | 442+33 | 578+44 | 1.5 |     |   | 28 | 15.55                  | 1.52                   | 25.38                  |                    |                                        |
| W62                                             | 442+33 | 578+44 |     | 1.5 |   | 28 | 15.55                  | 1.52                   |                        | 25.38              |                                        |
| W62                                             | 442+33 | 578+44 |     |     | 2 | 28 |                        |                        |                        |                    | 311.11                                 |

NOTES:

- (1) The maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping. Maintain positive drainage.
- (2) 2' Paved shoulders to be constructed monolithically with adjacent mainline pavement.
- (3) Granular shoulder material as specified in detail on Sheet B2 of these plans.
- (4) Tack Coat estimated for 1 application per lift.
- (5) See Tabulation 102-05 on Sheet C2
- (6) Install Milled Sinusoidal Shoulder Rumble Strip per IDOT SRP PV-12.
- (7) It shall be the responsibility of the Contractor to maintain positive drainage for the duration of the project. Weep holes shall be cut in the existing shoulder where necessary to provide drainage between milling and paving operations.



ESTIMATED ROADWAY QUANTITIES

| Item No. | Item Code    | Item                                                                                                 | Unit | Total        |
|----------|--------------|------------------------------------------------------------------------------------------------------|------|--------------|
| 1        | 2121-7425020 | GRANULAR SHOULDERS, TYPE B                                                                           | TON  | 1389.0       |
| 2        | 2212-0475095 | CLEANING AND PREPARATION OF BASE                                                                     | MILE | 9.45         |
| 3        | 2214-5145150 | PAVEMENT SCARIFICATION, NOMINAL THICKNESS                                                            | SY   | 2195.7       |
| 4        | 2214-5145152 | PAVEMENT SCARIFICATION, CROSS SLOPE                                                                  | SY   | 155235.1     |
| 5        | 2303-1032500 | HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN MIX                                    | TON  | 13878.3      |
| 6        | 2303-1033500 | HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN MIX, NO SPECIAL FRICTION REQUIREMENT        | TON  | 13227.6      |
| 7        | 2303-1258283 | ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC                                                          | TON  | 1626.4       |
| 8        | 2303-6911000 | HOT MIX ASPHALT PAVEMENT SAMPLES                                                                     | LS   | 1.0          |
| 9        | 2303-7000610 | PAYMENT ADJUSTMENT INCENTIVE/ DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA- BY PAY FACTOR) | EACH | 27105.9      |
| 10       | 2303-7000620 | PAYMENT ADJUSTMENT INCENTIVE/ DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA- BY PAY FACTOR)      | EACH | 27105.9      |
| 11       | 2303-9091010 | RUMBLE STRIP PANEL (HMA SURFACE)                                                                     | EACH | 2.0          |
| 12       | 2312-8260051 | GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE                                                    | TON  | 195.0        |
| 13       | 2315-8275025 | SURFACING, DRIVEWAY, CLASS A CRUSHED STONE                                                           | TON  | 885.0        |
| 14       | 2317-7000120 | PAYMENT ADJUSTMENT INCENTIVE/ DISINCENTIVE FOR HMA MIXTURE SMOOTHNESS (BY SCHEDULE)                  | EACH | 31934.0      |
| 15       | 2526-8285010 | CONSTRUCTION SURVEY, MONUMENT PRESERVATION                                                           | LS   | 1.0          |
| 16       | 2527-9263209 | PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT- BASED                                               | STA  | 1412.53      |
| 17       | 2528-8445110 | TRAFFIC CONTROL                                                                                      | LS   | 1            |
| 18       | 2528-8445113 | FLAGGERS                                                                                             | EACH | see proposal |
| 19       | 2528-8445115 | PILOT CARS                                                                                           | EACH | see proposal |
| 20       | 2533-4980005 | MOBILIZATION                                                                                         | LS   | 1            |
| 21       | 2548-0000170 | MILLED SHOULDER SINUSOIDAL RUMBLE STRIPS, HMA SURFACE                                                | STA  | 896.83       |

ESTIMATE REFERENCE INFORMATION

- 1 SHALL BE CLASS A CRUSHED STONE. SEE DETAIL, SHEET B2 & TABULATION, SHEET C2. THE QUANTITY INCLUDES ADDITIONAL 5% FOR IRREGULARITIES.
- 3-4 REFER TO PAVEMENT SCARIFICATION TABULATION, SHEETS C4 & C5 FOR HMA MILLING LOCATIONS. ALSO REFER TO TYPICAL CROSS SECTION, SHEET B1 FOR DETAILS OF HMA MILLING REQUIRED PRIOR TO PLACEMENT OF HMA. ALL MATERIAL TO BECOME PROPERTY OF CONTRACTOR. MAINTAIN POSITIVE DRAINAGE FOR DURATION OF PROJECT.
- 5-8 SEE TYPICAL CROSS SECTION, SHEET B1 AND TABULATION, SHEET C2. CERTIFIED PLANT INSPECTION REQUIRED. HMA FILLETS TO BE PLACED AT THE SAME TIME AS ADJACENT MAINLINE RESURFACING HMA COURSE.
- 5 QUANTITY INCLUDES AN ADDITIONAL 5% FOR IRREGULARITIES.
- 6 SECTION 2317 PAVEMENT SMOOTHNESS SHALL APPLY.
- 7 ESTIMATED QUANTITY BASED ON MIX CONTENT OF 6%. INCLUDES AN ADDITIONAL 5% FOR IRREGULARITIES IN INTERMEDIATE LIFT.
- 11 REFER TO TABULATION 112-7 ON SHEET C3 FOR LOCATIONS AND DETAILS.
- 12 SHALL BE CLASS A CRUSHED STONE. TO BE PLACED AT SIDE ROADS AFTER FILLETS ARE PLACED IF NEEDED. ESTIMATED QUANTITY BASED ON 15 TON PER SIDE ROAD LOCATION.
- 13 SHALL BE CLASS A CRUSHED STONE. TO BE PLACED AT ENTRANCES AFTER FILLETS ARE PLACED IF NEEDED. ESTIMATED QUANTITY BASED ON 7.5 TON PER ENTRANCE LOCATION.
- 15 MONUMENT PRESERVATION CERTIFICATES SHALL BE FILED FOR ALL CENTERLINE POINTS, SECTION CORNERS, AND ANY SURVEY MARKERS EXISTING IN ROAD AND RESET FOLLOWING SURFACE LIFT PLACEMENT. CENTERLINE SHALL BE FOLLOWED BETWEEN EXISTING PAVEMENT AND PROPOSED PAVEMENT. SEE G SHEETS FOR KNOWN POINTS.
- 16 SEE DETAIL ON SHEET B2 AND TABULATION 108-23 ON SHEETS C6 & C7. EDGELINE MARKINGS SHALL BE 6" LINES AND ALL CENTERLINE MARKINGS SHALL BE 4" LINES.
- 17 SEE TRAFFIC CONTROL PLAN ON SHEET C2.
- 21 SEE DETAIL ON SHEET B2 AND TABULATION 112-10 ON SHEETS C8 & C9. EDGELINE STRIPING SHALL BE PLACED IN SHOULDER RUMBLE STRIPS. FOG SEAL SHALL NOT BE APPLIED.

UTILITY CONTACTS

Alliant Energy

Alliant Energy Field Engineer @ (800)255-4268  
[locate\\_IPL@alliantenergy.com](mailto:locate_IPL@alliantenergy.com)

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Iowa Communications Network

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Liberty Utilities

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Mediacom

Darrin Walker @ (319)759-3786  
[dwalker@mediacomcc.com](mailto:dwalker@mediacomcc.com)

Rathbun Regional Water

Scott Jackson @ (641)647-1037  
[onecall@rrwa.net](mailto:onecall@rrwa.net)

Windstream Communications

Locate Desk @ (800)289-1901  
[locate.desk@windstream.com](mailto:locate.desk@windstream.com)

**GENERAL NOTES:**  
A PRECONSTRUCTION CONFERENCE WITH THE SUCCESSFUL BIDDER WILL BE HELD NOT LESS THAN TWO WEEKS PRIOR TO STARTING THE PROJECT AND SHALL INCLUDE THE CONTRACTOR'S JOB SUPERINTENDENT.  
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A WASTE AREA OR DIPOSAL SITE FOR EXCESS MATERIAL WHICH IS NOT DESIRABLE TO BE INCORPORATED IN THE WORK INVOLVED IN THIS PROJECT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO OR FROM THESE SITES. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY UNLESS SPECIFICALLY STATED ON THE PLANS OR APPROVED BY THE ENGINEER.  
**TRAFFIC CONTROL PLAN:**  
THE ROAD WILL BE OPEN TO THROUGH TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08, CURRENT STANDARD SPECIFICATIONS.  
CONTRACTOR TO FURNISH, ERECT, AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL SIGNS ON A 24 HOUR, 7 DAY PER WEEK BASIS DURING CONSTRUCTION OF THE PROJECT.  
WORK NEAR HWY 27 & HWY 61: ANYTIME THE CONTRACTOR ANTICIPATES TRAFFIC ON HIGHWAY 27 OR 61 WILL BE AFFECTED, OR IS OBSERVED TO BE AFFECTED, SRP TC-214 SIGNS SHALL BE IN PLACE ON SAID AFFECTED HIGHWAY.  
WORK ZONES SHALL BE KEPT SHORT WHILE NEAR EITHER HWY 27 OR HWY 61 TO PREVENT TRAFFIC FROM BACKING UP ON THE HIGHWAY.  
NO PAVEMENT MARKING SIGNS (W21-16) ARE REQUIRED TO BE PLACED AFTER OPERATIONS WHERE PAINT IS REMOVED OR COVERED AT THE BEGINNING AND END OF THE PROJECT AND AT ONE MILE INTERVALS AS NEEDED THROUGHOUT THE PROJECT.  
FOLLOWING MILLING OPERATIONS, UNEVEN LANES SHALL BE SIGNED PER STANDARD ROAD PLAN TC-282.  
GROOVED PAVEMENT SIGNS (W8-15) SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT AND AT TWO MILE INTERVALS THROUGHOUT THE PROJECT. SIGNS SHALL BE CONSIDERED PART OF TRAFFIC CONTROL AND SHALL NOT BE CONSIDERED FOR EXTRA OR ADDITIONAL PAYMENT.  
CONSTRUCTION WILL BE SUSPENDED IN THE EVENT THAT ANY OF THE REQUIRED LEGIBLE TRAFFIC CONTROL SIGNS ARE NOT IN PLACE AND WILL REMAIN SUSPENDED UNTIL SUCH DEFICIENCIES ARE CORRECTED.

| 102_05<br>12/14/22 |        |       |                     |                          |                        |      |      |                            |              |                    |           |                 |              |                    |              |                    |                         |                       |                                   |                    |                                 |
|--------------------|--------|-------|---------------------|--------------------------|------------------------|------|------|----------------------------|--------------|--------------------|-----------|-----------------|--------------|--------------------|--------------|--------------------|-------------------------|-----------------------|-----------------------------------|--------------------|---------------------------------|
| EXISTING PAVEMENT  |        |       |                     |                          |                        |      |      |                            |              |                    |           |                 |              |                    |              |                    |                         |                       |                                   |                    |                                 |
| Line No.           | County | Route | Direction of Travel | Begin Ref. Location Sign | End Ref. Location Sign | Year | Type | Project Number             | Surface Type | Surface Depth (IN) | Base Type | Base Depth (IN) | Subbase Type | Subbase Depth (IN) | Removal Type | Removal Depth (IN) | Coarse Aggregate Source | Course Aggregate Type | Course Aggregate Durability Class | Reinforcement Type | Remarks                         |
| 1                  | LEE    | W62   | BOTH                | 69+13                    | 279+02                 | 1965 |      | S-2417(4)                  | ACC          | 2                  | ACC       | 6               | STAB. GRAN.  | 3                  |              |                    |                         |                       |                                   |                    | HWY 27 TO 340TH ST              |
| 2                  | LEE    | W62   | BOTH                | 279+02                   | 579+77                 | 1969 |      | S-2417(7)                  | ACC          | 2                  | ACC       | 6               | STAB. GRAN.  | 3                  |              |                    |                         |                       |                                   |                    | 340TH ST TO HWY 61              |
| 3                  | LEE    | W62   | BOTH                | 77+22                    | 578+44                 | 2004 |      | STP-S-C056(60)--5E-56      | HMA          | 3                  | CIP       | 4               |              |                    |              |                    |                         |                       |                                   |                    | PCC @ HWY 27 TO PCC @ HWY 61    |
| 4                  | LEE    | W62   | BOTH                | 279+02                   | 578+44                 | 2019 |      | FM-TSF-C056(103)           | HMA          | 6                  |           |                 |              |                    |              |                    |                         |                       |                                   |                    | PAVED SHLDRS 340TH ST TO HWY 61 |
| 5                  | LEE    | W62   | BOTH                | 70+25                    | 279+02                 | 2025 |      | HSIP-SWAP-C056(119)--FJ-56 | HMA          | 6                  |           |                 |              |                    |              |                    |                         |                       |                                   |                    | PAVED SHLDRS HWY 27 TO 340TH ST |

| OVERLAY & RECYCLE QUANTITIES                                                                                                |         |              |        |         |        |           |                    |           |                                 |
|-----------------------------------------------------------------------------------------------------------------------------|---------|--------------|--------|---------|--------|-----------|--------------------|-----------|---------------------------------|
| Station                                                                                                                     | Station | Intermediate |        | Surface |        | Granular  | Granular Surfacing | Surfacing | Remarks                         |
|                                                                                                                             |         | HMA          | Binder | HMA     | Binder | Shoulders | Road               | Driveways |                                 |
|                                                                                                                             |         | Tons         | Tons   | Tons    | Tons   | Tons      | Tons               | Tons      |                                 |
| 77+22                                                                                                                       | 440+08  | 9668.0       | 580.1  | 9207.6  | 552.5  | 890.8     |                    |           | Qty includes filllets           |
|                                                                                                                             |         |              |        |         |        |           |                    |           |                                 |
| 442+33                                                                                                                      | 578+44  | 3626.5       | 217.6  | 3453.8  | 207.3  | 498.2     |                    |           | Qty includes filllets           |
|                                                                                                                             |         |              |        |         |        |           |                    |           |                                 |
| Side roads - 13                                                                                                             |         | 245.7        | 14.7   | 234.0   | 14.0   |           | 195.0              |           | 15 T shoulder rock/intersection |
| Entrances - 118                                                                                                             |         | 329.3        | 19.8   | 313.6   | 18.8   |           |                    | 885.0     | 7.5 T shoulder rock/entrance    |
| CHURCH PARKING                                                                                                              |         | 0.0          | 0.0    | 10.2    | 0.6    |           |                    |           |                                 |
| FIRE DEPARTMENT                                                                                                             |         | 8.8          | 0.5    | 8.4     | 0.5    |           |                    |           |                                 |
|                                                                                                                             |         |              |        |         |        |           |                    |           |                                 |
| TOTAL                                                                                                                       |         | 13878.3      | 832.7  | 13227.6 | 793.7  | 1389.0    | 195.0              | 885.0     |                                 |
| Note: HMA fillet material for side roads and entrances shall be placed at the same time as mailine resurfacing HMA coarses. |         |              |        |         |        |           |                    |           |                                 |

|                                                                     |            |                                                     |
|---------------------------------------------------------------------|------------|-----------------------------------------------------|
| 105_04<br>10/20/26                                                  |            |                                                     |
| STANDARDS                                                           |            |                                                     |
| The following Standards apply to construction work on this project. |            |                                                     |
| Number                                                              | Date       | Title                                               |
| PM-110                                                              | 10/15/2024 | Line Types                                          |
| PR-202                                                              | 10/21/2014 | Notches for Resurfacing (with or without Runout)    |
| PV-10                                                               | 10/20/2026 | Rumble Strip Panel for Intersection Approach        |
| PV-12                                                               | 10/20/2026 | Milled Shoulder Rumble Strips                       |
| TC-1                                                                | 10/15/2019 | Work Not Affecting Traffic (Two-Lane or Multi-Lane) |
| TC-202                                                              | 4/18/2023  | Work Within 15 ft of Traveled Way                   |
| TC-213                                                              | 4/18/2023  | Lane Closure with Flaggers                          |
| TC-214                                                              | 4/18/2023  | Lane Closure with Flaggers for use with Pilot Car   |
| TC-231                                                              | 4/18/2023  | Slow Moving Vehicle Operating in the Traffic Lane   |
| TC-232                                                              | 10/21/2014 | Shoulder Rumble Strip Operations                    |
| TC-233                                                              | 10/17/2017 | Pavement Marking Operations Two-Lane                |
| TC-282                                                              | 10/15/2019 | Uneven Lanes                                        |
| TC-283                                                              | 4/18/2023  | Surveying Operations                                |
| TC-284                                                              | 10/15/2019 | No Centerline Markings on Non-Primary Roadways      |

102\_16  
11/1/24

NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202

(1) Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

| Line No. | Station   | Type of Notch or Runout | S (IN) | I (IN) | DI (IN) | L (FT) | M (IN) | Pavement Scarification (SY) (1) | Remarks          |
|----------|-----------|-------------------------|--------|--------|---------|--------|--------|---------------------------------|------------------|
|          | 77+22     | Type N5                 | 1.5    | 1.5    |         | 50     | 2.0    |                                 | PCC PAVEMENT     |
|          | 440+08    | Type N5                 | 1.5    | 1.5    |         | 50     | 2.0    |                                 | NW END OF BRIDGE |
|          | 442+33    | Type N5                 | 1.5    | 1.5    |         | 50     | 2.0    |                                 | SE END OF BRIDGE |
|          | 534+78 LT | Type N4                 | 1.5    | 1.5    |         |        | 3.0    |                                 | 235TH AVE FILLET |
|          | 578+44    | Type N5                 | 1.5    | 1.5    |         | 50     | 2.0    |                                 | PCC PAVEMENT     |

112\_07  
10/20/26

RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

| Line No. | Roadway Identification | Station | Side | Pavement Type | Rumble Strip Panel Type | Remarks      |
|----------|------------------------|---------|------|---------------|-------------------------|--------------|
| 1        | W62                    | 571+08  | RT   | New           | Rumble Strip Panel      | EB Stop @ 61 |
| 2        | W62                    | 574+67  | RT   | New           | Rumble Strip Panel      | EB Stop @ 61 |

| PAVEMENT SCARIFICATION |                    |        |                       |           |        |          |               |                  |                        |                           |
|------------------------|--------------------|--------|-----------------------|-----------|--------|----------|---------------|------------------|------------------------|---------------------------|
| Location               |                    |        | Lane                  | Dimension |        |          | Pavement Type | Cross-Slope Area | Nominal Thickness Area | Remarks                   |
| Road ID                | Station            |        | Right<br>Left<br>Both | Length    | Width  | Depth    |               |                  |                        |                           |
|                        | From               | To     | (R, L, B)             | (Feet)    | (Feet) | (Inches) |               |                  |                        |                           |
| W62                    | 77+22              | 440+08 | B                     | 36286     | 28.00  | 2.0      | HMA           | 112889.8         |                        | Mainline                  |
| W62                    | 442+33             | 578+44 | B                     | 13611.00  | 28.00  | 2.0      | HMA           | 42345.3          |                        | Mainline                  |
| Road ID                | Centerline Station |        | Lane                  | Length    | Width  | Depth    | Pavement Type |                  |                        | Remarks                   |
| W62                    | 77+91              |        | R                     | 49.00     | 4.00   | 6.0      | HMA           |                  | 21.8                   | 3033 Drive way Fillet     |
| W62                    | 125+77             |        | R                     | 82.00     | 4.00   | 6.0      | HMA           |                  | 36.4                   | 3141 Drive way Fillet     |
| W62                    | 159+39             |        | R                     | 48.00     | 4.00   | 6.0      | HMA           |                  | 21.3                   | 3185 Drive way Fillet     |
| W62                    | 165+14             |        | R                     | 42.00     | 4.00   | 6.0      | HMA           |                  | 18.7                   | 3191 Drive way Fillet     |
| W62                    | 169+48             |        | R                     | 70.00     | 5.0    | 2.0      | HMA           |                  | 38.9                   | 320TH ST Fillet           |
| W62                    | 183+97             |        | R                     | 31.00     | 4.00   | 6.0      | HMA           |                  | 13.8                   | 3227 Drive way Fillet     |
| W62                    | 198+84             |        | R                     | 35.00     | 4.00   | 6.0      | HMA           |                  | 15.6                   | 3251 Drive way Fillet     |
| W62                    | 203+77             |        | R                     | 31.00     | 4.00   | 6.0      | HMA           |                  | 13.8                   | 3261 Drive way Fillet     |
| W62                    | 226+34             |        | R                     | 60.00     | 4.00   | 6.0      | HMA           |                  | 26.7                   | 3301 Drive way Fillet     |
| W62                    | 234+28             |        | R                     | 52.00     | 4.00   | 6.0      | HMA           |                  | 23.1                   | 3309 Drive way Fillet     |
| W62                    | 238+97             |        | R                     | 40.00     | 4.00   | 6.0      | HMA           |                  | 17.8                   | 3315 Drive way Fillet     |
| W62                    | 250+75             |        | R                     | 46.00     | 4.00   | 6.0      | HMA           |                  | 20.4                   | 3329 Drive way Fillet     |
| W62                    | 278+68             |        | R                     | 97.00     | 5.0    | 2.0      | HMA           |                  | 53.9                   | 340TH ST Fillet           |
| W62                    | 288+97             |        | R                     | 52.00     | 4.00   | 6.0      | HMA           |                  | 23.1                   | 3407 Drive way Fillet     |
| W62                    | 317+57             |        | R                     | 34.00     | 4.00   | 6.0      | HMA           |                  | 15.1                   | 3411 Drive way Fillet     |
| W62                    | 321+85             |        | R                     | 31.00     | 4.00   | 6.0      | HMA           |                  | 13.8                   | 3447 Drive way Fillet     |
| W62                    | 337+65             |        | R                     | 85.00     | 5.0    | 2.0      | HMA           |                  | 47.2                   | Johnson St Rd Fillet      |
| W62                    | 379+60             |        | R                     | 32.00     | 4.00   | 6.0      | HMA           |                  | 14.2                   | 3471 Drive way Fillet     |
| W62                    | 385+60             |        | R                     | 53.00     | 4.00   | 6.0      | HMA           |                  | 23.6                   | 3477 Drive way Fillet     |
| W62                    | 388+16             |        | R                     | 33.00     | 4.00   | 6.0      | HMA           |                  | 14.7                   | 3483 Drive way Fillet     |
| W62                    | 408+95             |        | R                     | 32.00     | 4.00   | 6.0      | HMA           |                  | 14.2                   | 3509/3511 Driveway Fillet |
| W62                    | 432+68             |        | R                     | 34.00     | 4.00   | 6.0      | HMA           |                  | 15.1                   | 3533 Drive way Fillet     |
| W62                    | 450+76             |        | R                     | 110.00    | 5.0    | 2.0      | HMA           |                  | 61.1                   | 357TH Fillet              |
| W62                    | 455+94             |        | R                     | 50.00     | 4.00   | 6.0      | HMA           |                  | 22.2                   | 3553 Drive way Fillet     |
| W62                    | 466+07             |        | R                     | 35.00     | 4.00   | 6.0      | HMA           |                  | 15.6                   | 3569 Drive way Fillet     |
| W62                    | 472+64             |        | R                     | 35.00     | 4.00   | 6.0      | HMA           |                  | 15.6                   | 3577 Drive way Fillet     |
| W62                    | 478+84             |        | R                     | 38.00     | 4.00   | 6.0      | HMA           |                  | 16.9                   | 3589 Drive way Fillet     |
| W62                    | 483+23             |        | R                     | 34.00     | 4.00   | 6.0      | HMA           |                  | 15.1                   | 3593 Drive way Fillet     |
| W62                    | 484+32             |        | R                     | 28.00     | 4.00   | 6.0      | HMA           |                  | 12.4                   | 3593(2) Driveway Fillet   |
| W62                    | 490+90             |        | R                     | 53.00     | 4.00   | 6.0      | HMA           |                  | 23.6                   | 3597 Drive way Fillet     |
| W62                    | 496+86             |        | R                     | 120.00    | 10.0   | 2.0      | HMA           |                  | 133.3                  | 235TH AVE Fillet          |
| W62                    | 504+23             |        | R                     | 55.00     | 4.00   | 6.0      | HMA           |                  | 24.4                   | 3611 Drive way Fillet     |
| W62                    | 515+40             |        | R                     | 74.00     | 5.0    | 2.0      | HMA           |                  | 41.1                   | IOWA RD Fillet            |
| W62                    | 539+90             |        | R                     | 82.00     | 5.0    | 2.0      | HMA           |                  | 45.6                   | LAKE RD Fillet            |
| W62                    | 546+62             |        | R                     | 37.00     | 4.00   | 6.0      | HMA           |                  | 16.4                   | 3661 Drive way Fillet     |
| W62                    | 552+09             |        | R                     | 44.00     | 4.00   | 6.0      | HMA           |                  | 19.6                   | 3663 Drive way Fillet     |
| W62                    | 555+06             |        | R                     | 48.00     | 4.00   | 6.0      | HMA           |                  | 21.3                   | 3665 Drive way Fillet     |

| PAVEMENT SCARIFICATION |                    |                       |           |       |       |               |                  |                        |                            |
|------------------------|--------------------|-----------------------|-----------|-------|-------|---------------|------------------|------------------------|----------------------------|
| Location               |                    | Lane                  | Dimension |       |       | Pavement Type | Cross-Slope Area | Nominal Thickness Area | Remarks                    |
| Road ID                | Centerline Station | Right<br>Left<br>Both | Length    | Width | Depth |               |                  |                        |                            |
|                        |                    | (R, L, B)             |           |       |       |               | (Feet)           | (Feet)                 |                            |
| W62                    | 104+79             | L                     | 80.00     | 5.00  | 2.0   | HMA           |                  | 44.4                   | 310TH ST Fillet            |
| W62                    | 145+26             | L                     | 64.00     | 4.00  | 6.0   | HMA           |                  | 28.4                   | 3164 Driveway Fillet       |
| W62                    | 190+05             | L                     | 42.00     | 4.00  | 6.0   | HMA           |                  | 18.7                   | 3234 Driveway Fillet       |
| W62                    | 245+55             | L                     | 43.00     | 4.00  | 6.0   | HMA           |                  | 19.1                   | 3324 Driveway Fillet       |
| W62                    | 253+18             | L                     | 53.00     | 4.00  | 6.0   | HMA           |                  | 23.6                   | 3334 Driveway Fillet       |
| W62                    | 282+69             | L                     | 36.00     | 4.00  | 6.0   | HMA           |                  | 16.0                   | 3402 Driveway Fillet       |
| W62                    | 288+60             | L                     | 35.00     | 4.00  | 6.0   | HMA           |                  | 15.6                   | 3402/3406 Driveway Fillet  |
| W62                    | 311+54             | L                     | 52.00     | 4.00  | 6.0   | HMA           |                  | 23.1                   | 3432 Driveway Fillet       |
| W62                    | 319+62             | L                     | 280.00    | 4.00  | 6.0   | HMA           |                  | 124.4                  | Church Parking Fillet      |
| W62                    | 321+36             | L                     | 58.00     | 4.00  | 1.5   | HMA           |                  | 25.8                   | CHURCH Driveway Fillet     |
| W62                    | 353+02             | L                     | 120.00    | 5.00  | 2.0   | HMA           |                  | 66.7                   | 215TH AVE Fillet           |
| W62                    | 367+28             | L                     | 66.00     | 4.00  | 6.0   | HMA           |                  | 29.3                   | 3464 Driveway Fillet       |
| W62                    | 372+00             | L                     | 34.00     | 4.00  | 6.0   | HMA           |                  | 15.1                   | 3466 Driveway Fillet       |
| W62                    | 374+06             | L                     | 27.00     | 4.00  | 6.0   | HMA           |                  | 12.0                   | 3466 Driveway Fillet       |
| W62                    | 380+08             | L                     | 47.00     | 4.00  | 6.0   | HMA           |                  | 20.9                   | 3472 Driveway Fillet       |
| W62                    | 385+00             | L                     | 53.00     | 4.00  | 6.0   | HMA           |                  | 23.6                   | 3482 Driveway Fillet       |
| W62                    | 393+15             | L                     | 48.00     | 4.00  | 6.0   | HMA           |                  | 21.3                   | 3486 Driveway Fillet       |
| W62                    | 394+41             | L                     | 35.00     | 4.00  | 6.0   | HMA           |                  | 15.6                   | 3490 Driveway Fillet       |
| W62                    | 402+18             | L                     | 129.00    | 5.00  | 2.0   | HMA           |                  | 71.7                   | 350TH ST Fillet            |
| W62                    | 418+51             | L                     | 23.00     | 4.00  | 6.0   | HMA           |                  | 10.2                   | 3520 Driveway Fillet       |
| W62                    | 421+11             | L                     | 53.00     | 4.00  | 6.0   | HMA           |                  | 23.6                   | 3522 Driveway Fillet       |
| W62                    | 434+90             | L                     | 65.00     | 4.00  | 6.0   | HMA           |                  | 28.9                   | 3534 Driveway Fillet       |
| W62                    | 457+16             | L                     | 55.00     | 4.00  | 6.0   | HMA           |                  | 24.4                   | 3552 Driveway Fillet       |
| W62                    | 462+55             | L                     | 50.00     | 4.00  | 6.0   | HMA           |                  | 22.2                   | 3566 Driveway Fillet       |
| W62                    | 466+60             | L                     | 41.00     | 4.00  | 6.0   | HMA           |                  | 18.2                   | 3570 Driveway Fillet       |
| W62                    | 475+52             | L                     | 44.00     | 4.00  | 6.0   | HMA           |                  | 19.6                   | 3580 Driveway Fillet       |
| W62                    | 480+23             | L                     | 31.00     | 4.00  | 6.0   | HMA           |                  | 13.8                   | 3586 Driveway Fillet       |
| W62                    | 486+30             | L                     | 27.00     | 4.00  | 6.0   | HMA           |                  | 12.0                   | 3590 Driveway Fillet       |
| W62                    | 487+72             | L                     | 28.00     | 4.00  | 6.0   | HMA           |                  | 12.4                   | 3590(2) Driveway Fillet    |
| W62                    | 489+54             | L                     | 24.00     | 4.00  | 6.0   | HMA           |                  | 10.7                   | 3596 Driveway Fillet       |
| W62                    | 501+85             | L                     | 39.00     | 4.00  | 6.0   | HMA           |                  | 17.3                   | 3608 Driveway Fillet       |
| W62                    | 505+60             | L                     | 32.00     | 4.00  | 6.0   | HMA           |                  | 14.2                   | 3612 Driveway Fillet       |
| W62                    | 508+33             | L                     | 40.00     | 4.00  | 6.0   | HMA           |                  | 17.8                   | 3612(2) Driveway Fillet    |
| W62                    | 510+69             | L                     | 28.00     | 4.00  | 6.0   | HMA           |                  | 12.4                   | 3616 Driveway Fillet       |
| W62                    | 515+72             | L                     | 86.00     | 5.00  | 2.0   | HMA           |                  | 47.8                   | 238TH AVE Fillet           |
| W62                    | 534+78             | L                     | 85.00     | 5.00  | 2.0   | HMA           |                  | 47.2                   | 238TH AVE Fillet           |
| W62                    | 535+35             | L                     | 72.00     | 4.00  | 6.0   | HMA           |                  | 32.0                   | 3638 Driveway Fillet       |
| W62                    | 536+88             | L                     | 120.00    | 4.00  | 6.0   | HMA           |                  | 53.3                   | Fire Dept. Driveway Fillet |
| W62                    | 543+19             | L                     | 115.00    | 5.00  | 2.0   | HMA           |                  | 63.9                   | 353RD ST Fillet            |
| W62                    | 551+32             | L                     | 34.00     | 4.00  | 6.0   | HMA           |                  | 15.1                   | 3664 Driveway Fillet       |
| W62                    | 558+91             | L                     | 44.00     | 4.00  | 6.0   | HMA           |                  | 19.6                   | 3670 Driveway Fillet       |
| W62                    | 562+65             | L                     | 38.00     | 4.00  | 6.0   | HMA           |                  | 16.9                   | 3680 Driveway Fillet       |
| W62                    | 565+37             | L                     | 35.00     | 4.00  | 6.0   | HMA           |                  | 15.6                   | 3684 Driveway Fillet       |
| W62                    | 575+66             | L                     | 54.00     | 4.00  | 6.0   | HMA           |                  | 24.0                   | 3690/3694 Driveway Fillet  |
|                        |                    |                       |           |       |       |               |                  |                        |                            |
|                        |                    |                       |           |       |       |               | 155235.1         | 2195.7                 | TOTALS                     |

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.  
\*BCY4 - Place on the same side of the roadway to match existing markings near the project.  
\*\*NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.  
\*\*\*MNY6 - Factor of 1.00 as value includes number of 6-inch passes to cover median nose area.  
BCY4: Broken Centerline (Yellow) @ 0.17      DCY4: Double Centerline (Yellow) @ 1.34      ELW6: Edge Line Right (White) @ 1.00      NPY4: No Passing Zone Line (Yellow) @ 0.84

| Line No. | Road ID | Station From | Station To | Lane | Marking Type             | Left | Center | Right | Groove Marking Needed? | Groove Qty. (STA) | BCY4* Factored (STA) | DCY4 Factored (STA) | NPY4** Factored (STA) | ELW6 Factored (STA) | Remarks |
|----------|---------|--------------|------------|------|--------------------------|------|--------|-------|------------------------|-------------------|----------------------|---------------------|-----------------------|---------------------|---------|
|          | W62     | 69+13.00     | 103+83.00  | WB   | Waterborne/Solvent Paint | X    |        |       | NO                     |                   |                      |                     |                       | 36.06               |         |
|          | W62     | 104+75.00    | 352+61.00  | WB   | Waterborne/Solvent Paint | X    |        |       | NO                     |                   |                      |                     |                       | 247.86              |         |
|          | W62     | 353+94.00    | 402+05.00  | WB   | Waterborne/Solvent Paint | X    |        |       | NO                     |                   |                      |                     |                       | 48.11               |         |
|          | W62     | 402+94.00    | 514+94.00  | WB   | Waterborne/Solvent Paint | X    |        |       | NO                     |                   |                      |                     |                       | 112.00              |         |
|          | W62     | 515+84.00    | 534+22.00  | WB   | Waterborne/Solvent Paint | X    |        |       | NO                     |                   |                      |                     |                       | 18.38               |         |
|          | W62     | 535+08.00    | 542+15.00  | WB   | Waterborne/Solvent Paint | X    |        |       | NO                     |                   |                      |                     |                       | 7.07                |         |
|          | W62     | 543+33.00    | 579+77.00  | WB   | Waterborne/Solvent Paint | X    |        |       | NO                     |                   |                      |                     |                       | 36.72               |         |
|          | W62     | 579+77.00    | 539+84.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 41.06               |         |
|          | W62     | 538+95.00    | 515+44.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 23.51               |         |
|          | W62     | 514+62.00    | 504+24.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 10.38               |         |
|          | W62     | 503+49.00    | 497+43.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 6.06                |         |
|          | W62     | 495+79.00    | 451+11.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 44.68               |         |
|          | W62     | 449+76.00    | 337+94.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 111.82              |         |
|          | W62     | 337+04.00    | 279+02.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 58.02               |         |
|          | W62     | 277+96.00    | 169+78.00  | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 108.18              |         |
|          | W62     | 169+00.00    | 69+13.00   | EB   | Waterborne/Solvent Paint |      |        | X     | NO                     |                   |                      |                     |                       | 100.54              |         |
|          | W62     | 69+13.00     | 75+55.00   | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 5.39                  |                     |         |
|          | W62     | 75+55.00     | 77+73.00   | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   | 0.37                 |                     |                       |                     |         |
|          | W62     | 7+73.00      | 89+09.00   | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 9.54                  |                     |         |
|          | W62     | 89+09.00     | 98+02.00   | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 7.50                  |                     |         |
|          | W62     | 98+02.00     | 99+53.00   | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 1.27                  |                     |         |
|          | W62     | 99+53.00     | 108+53.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 7.56                  |                     |         |
|          | W62     | 108+53.00    | 138+69.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      | 40.41               |                       |                     |         |
|          | W62     | 138+69.00    | 149+69.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 9.24                  |                     |         |
|          | W62     | 149+69.00    | 156+79.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 5.96                  |                     |         |
|          | W62     | 156+79.00    | 159+91.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   | 0.53                 |                     |                       |                     |         |
|          | W62     | 159+91.00    | 166+99.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 5.95                  |                     |         |
|          | W62     | 166+99.00    | 177+55.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 8.87                  |                     |         |
|          | W62     | 177+55.00    | 196+04.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      | 24.78               |                       |                     |         |
|          | W62     | 196+04.00    | 206+78.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 9.02                  |                     |         |
|          | W62     | 206+78.00    | 224+65.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   | 3.04                 |                     |                       |                     |         |
|          | W62     | 224+65.00    | 235+38.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 9.01                  |                     |         |
|          | W62     | 235+38.00    | 252+31.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      | 22.69               |                       |                     |         |
|          | W62     | 252+31.00    | 261+39.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 7.63                  |                     |         |
|          | W62     | 261+39.00    | 262+90.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      | 2.02                |                       |                     |         |
|          | W62     | 262+90.00    | 272+70.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 7.70                  |                     |         |
|          | W62     | 272+70.00    | 287+58.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      | 19.94               |                       |                     |         |
|          | W62     | 287+58.00    | 298+11.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 8.85                  |                     |         |
|          | W62     | 298+11.00    | 420+57.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   | 20.82                |                     |                       |                     |         |
|          | W62     | 420+57.00    | 429+33.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 7.36                  |                     |         |
|          | W62     | 429+33.00    | 431+68.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   | 0.40                 |                     |                       |                     |         |
|          | W62     | 431+68.00    | 435+91.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      |                     | 3.55                  |                     |         |
|          | W62     | 435+91.00    | 464+66.00  | BOTH | Waterborne/Solvent Paint |      | X      |       | NO                     |                   |                      | 38.53               |                       |                     |         |

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.  
\*BCY4 - Place on the same side of the roadway to match existing markings near the project.  
\*\*NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.  
\*\*\*MNY6 - Factor of 1.00 as value includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17      DCY4: Double Centerline (Yellow) @ 1.34      ELW6: Edge Line Right (White) @ 1.00      NPY4: No Passing Zone Line (Yellow) @ 0.84  
SLW2: Stop Line (White) @ 4.00      #REF!

| Line No. | Road ID | Station From | Station To | Lane | Marking Type                                                         | Left | Center | Right | Groove Marking Needed? | Groove Qty. (STA) | BCY4* Factored (STA) | DCY4 Factored (STA) | NPY4** Factored (STA) | ELW6 Factored (STA) | Remarks |
|----------|---------|--------------|------------|------|----------------------------------------------------------------------|------|--------|-------|------------------------|-------------------|----------------------|---------------------|-----------------------|---------------------|---------|
|          |         |              |            |      |                                                                      |      |        |       |                        |                   |                      |                     |                       |                     |         |
|          | W62     | 464+66.00    | 470+99.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      |                     | 5.32                  |                     |         |
|          | W62     | 470+99.00    | 474+44.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      | 4.62                |                       |                     |         |
|          | W62     | 474+44.00    | 480+60.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      |                     | 5.17                  |                     |         |
|          | W62     | 480+60.00    | 515+66.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      | 46.98               |                       |                     |         |
|          | W62     | 515+66.00    | 523+57.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      |                     | 6.64                  |                     |         |
|          | W62     | 523+57.00    | 534+01.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      |                     | 8.77                  |                     |         |
|          | W62     | 534+01.00    | 543+72.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      | 13.01               |                       |                     |         |
|          | W62     | 543+72.00    | 552+58.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      |                     | 7.44                  |                     |         |
|          | W62     | 552+58.00    | 566+33.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   | 2.34                 |                     |                       |                     |         |
|          | W62     | 566+23.00    | 574+62.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      |                     | 6.96                  |                     |         |
|          | W62     | 574+62.00    | 579+77.00  | BOTH | Waterborne/Solvent Paint                                             |      | X      |       | NO                     |                   |                      | 6.90                |                       |                     |         |
|          |         |              |            |      | Factored Total: Waterborne/Solvent Paint                             |      |        |       |                        | 0.00              | 27.50                | 219.88              | 154.70                | 1010.45             |         |
|          |         |              |            |      |                                                                      |      |        |       |                        |                   |                      |                     |                       |                     |         |
|          |         |              |            |      |                                                                      |      |        |       |                        |                   |                      |                     |                       |                     |         |
|          |         |              |            |      | Bid Quantity: Painted Pavement Markings, Waterborne or Solvent-Based |      |        |       |                        |                   |                      | 1412.53             |                       |                     |         |
|          |         |              |            |      |                                                                      |      |        |       |                        |                   |                      |                     |                       |                     |         |

RUMBLE STRIPS

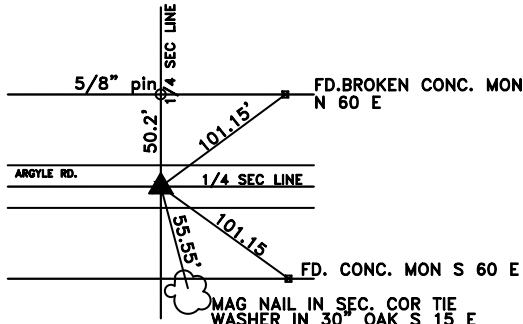
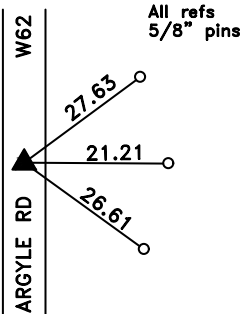
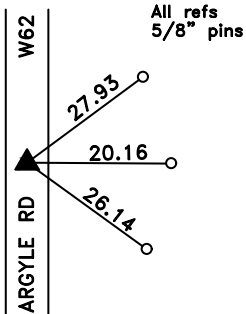
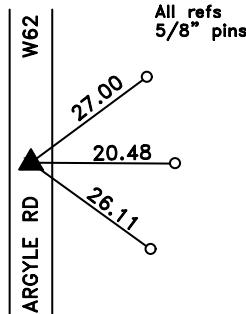
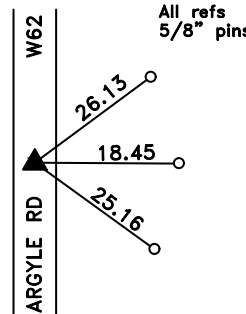
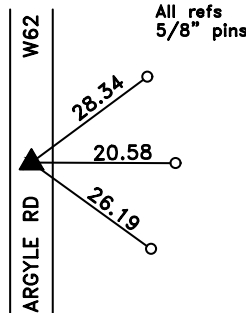
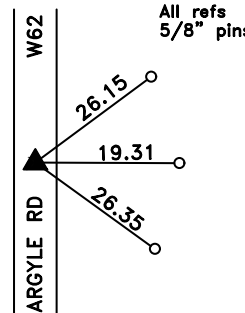
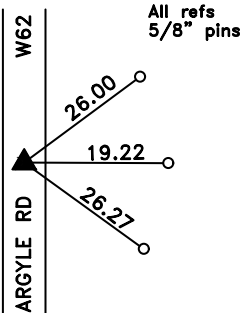
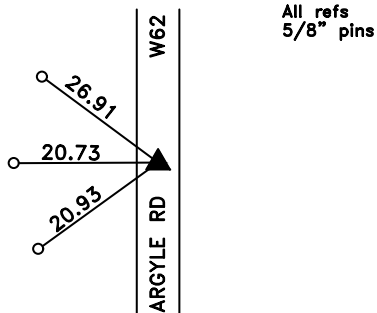
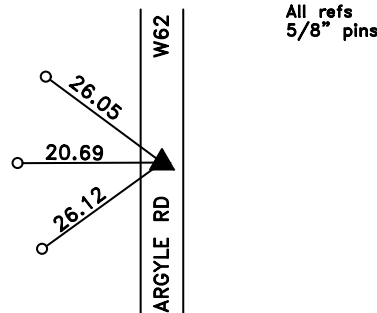
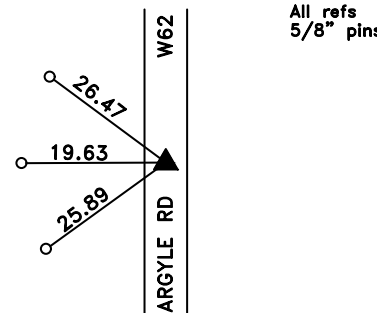
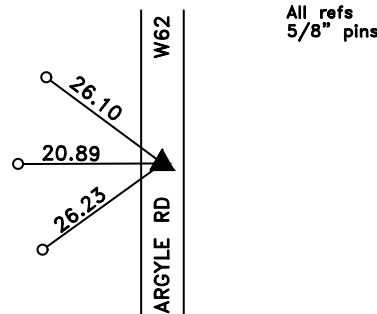
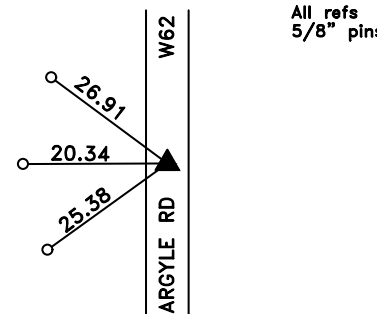
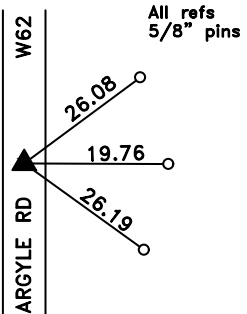
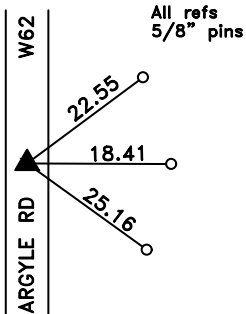
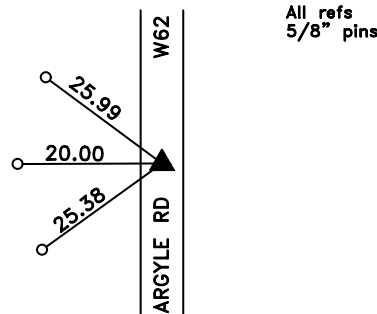
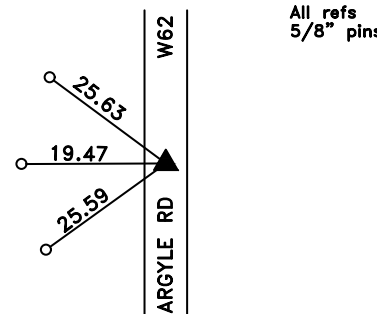
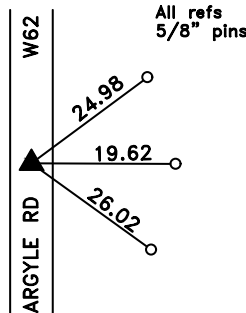
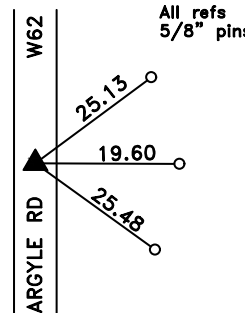
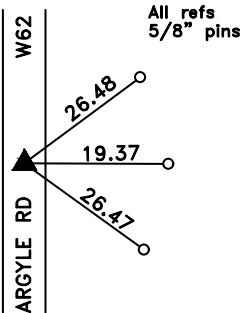
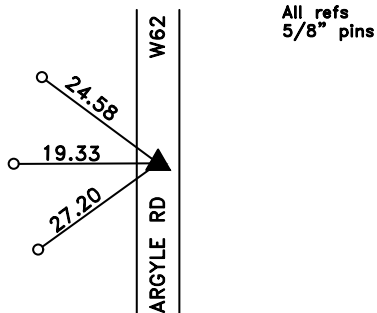
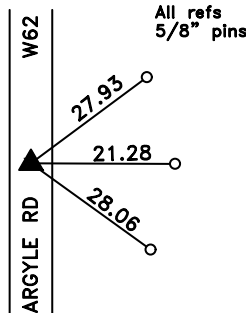
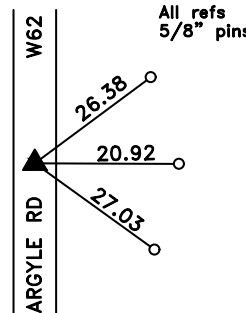
\* Calculated at 18" width for Shoulder.  
\*\* For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.

| Line No. | Road Identification | Station From | Station To | Surface Type | Rumble Strip Lane | Rumble Strip Type                                   | Fog Seal Type | L (IN) | PCC Length (STA) | HMA Length (STA) | Fog Seal* Shoulder (GAL) | Fog seal (SY)** | Effective Shoulder Width PCC (FT) | Effective Shoulder width HMA (FT) | Effective Shoulder Width Granular\Earth (FT) | Remarks |
|----------|---------------------|--------------|------------|--------------|-------------------|-----------------------------------------------------|---------------|--------|------------------|------------------|--------------------------|-----------------|-----------------------------------|-----------------------------------|----------------------------------------------|---------|
|          | W62                 | 77+22        | 77+48      | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 0.26             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 78+38        | 101+84     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 23.46            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 102+75       | 125+18     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 22.43            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 126+40       | 143+06     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 16.66            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 143+89       | 150+11     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 6.22             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 150+97       | 159+02     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 8.05             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 159+91       | 164+78     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.87             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 165+61       | 168+98     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 3.37             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 170+10       | 183+70     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 13.60            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 184+41       | 198+56     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 14.15            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 199+27       | 203+44     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.17             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 204+16       | 209+13     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.97             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 209+92       | 225+89     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 15.97            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 226+88       | 233+72     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 6.84             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 234+68       | 238+32     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 3.64             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 239+12       | 250+24     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 11.12            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 251+09       | 271+76     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 20.67            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 272+57       | 278+06     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 5.49             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 279+26       | 288+62     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 9.36             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 289+66       | 298+77     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 9.11             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 299+51       | 317+36     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 17.85            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 318+17       | 321+59     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 3.42             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 322+51       | 337+09     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 14.58            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 338+38       | 376+01     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 37.63            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 376+87       | 379+24     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 2.37             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 380+14       | 385+13     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.99             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 386+15       | 394+25     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 8.10             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 394+97       | 398+57     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 3.60             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 399+46       | 408+50     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 9.04             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 409+27       | 432+40     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 23.13            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 433+08       | 439+66     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 6.58             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 442+75       | 450+02     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 7.27             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 451+59       | 455+46     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 3.87             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 456+35       | 464+95     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 8.60             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 465+63       | 465+73     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 0.10             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 466+46       | 472+25     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 5.79             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 473+01       | 478+38     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 5.37             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 479+21       | 482+84     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 3.63             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 483+68       | 483+88     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 0.20             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 484+66       | 485+22     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 0.56             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 485+91       | 490+38     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.47             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 491+33       | 495+75     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.42             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 496+17       | 503+58     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 5.41             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 504+84       | 514+70     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 9.86             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 515+92       | 522+60     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 6.68             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 523+36       | 527+69     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.33             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 528+56       | 534+81     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 6.25             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 536+09       | 539+03     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 2.94             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 540+33       | 546+10     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 5.77             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 546+96       | 551+64     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 4.68             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 552+54       | 554+42     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 1.88             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 555+33       | 576+58     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 21.25            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 577+33       | 578+27     | HMA          | Right Shoulder    | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"    |                  | 0.94             |                          |                 |                                   | 2.0                               |                                              |         |

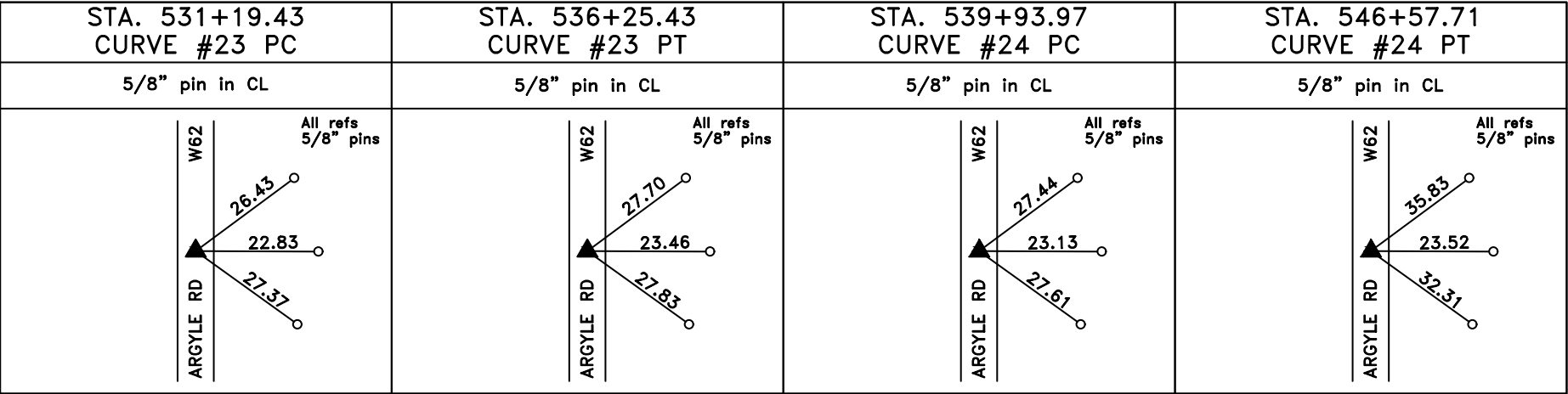
RUMBLE STRIPS

\* Calculated at 18" width for Shoulder.  
\*\* For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.

| Line No. | Road Identification | Station From | Station To | Shoulder Pavement Type | Rumble Strip Lane | Rumble Strip Type                                   | Fog Seal Type | L (IN)   | PCC Length (STA) | HMA Length (STA) | Fog Seal* Shoulder (GAL) | Fog seal (SY)** | Effective Shoulder Width PCC (FT) | Effective Shoulder Width HMA (FT) | Effective Shoulder Width Granular\Earth (FT) | Remarks |
|----------|---------------------|--------------|------------|------------------------|-------------------|-----------------------------------------------------|---------------|----------|------------------|------------------|--------------------------|-----------------|-----------------------------------|-----------------------------------|----------------------------------------------|---------|
|          | W62                 | 77+22        | 104+15     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 28.93            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 105+39       | 144+85     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 39.46            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 145+87       | 159+16     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 13.29            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 159+98       | 184+17     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 24.19            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 185+04       | 189+69     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 4.65             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 190+61       | 244+91     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 54.30            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 245+81       | 246+43     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 0.62             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 247+25       | 252+68     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 5.43             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 253+61       | 279+02     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 25.41            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 279+26       | 282+10     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 2.84             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 282+92       | 288+09     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 5.17             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 288+87       | 292+77     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 3.90             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 293+58       | 304+58     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 11.00            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 305+39       | 310+90     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 5.51             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 311+98       | 317+87     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 5.89             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 321+75       | 351+98     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 30.23            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 353+88       | 366+59     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 12.71            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 367+72       | 371+51     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 3.79             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 372+39       | 373+62     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 1.23             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 374+33       | 379+64     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 5.31             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 380+49       | 384+48     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 3.99             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 385+49       | 392+68     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 7.19             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 393+57       | 393+95     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 0.38             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 394+88       | 401+49     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 6.61             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 402+82       | 410+72     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 7.90             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 411+50       | 418+16     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 6.66             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 418+94       | 420+66     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 1.72             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 421+77       | 434+51     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 12.74            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 435+45       | 439+66     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 4.21             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 442+90       | 456+63     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 13.73            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 457+63       | 462+01     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 4.38             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 463+07       | 466+13     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 3.06             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 467+09       | 475+09     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 8.00             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 475+95       | 485+88     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 9.93             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 488+75       | 487+43     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 0.68             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 488+15       | 489+12     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 0.97             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 490+03       | 491+22     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 1.19             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 492+06       | 501+33     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 9.27             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 502+14       | 504+94     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 2.80             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 505+94       | 507+68     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 1.74             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 508+52       | 510+07     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 1.55             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 510+87       | 514+79     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 3.92             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 516+19       | 528+10     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 11.91            |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 528+88       | 534+13     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 5.25             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 535+87       | 535+92     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 0.05             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 537+54       | 542+46     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 4.92             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 543+78       | 550+89     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 7.11             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 551+70       | 558+37     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 6.67             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 559+23       | 562+33     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 3.10             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 563+15       | 564+92     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 1.77             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 565+68       | 575+11     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 9.43             |                          |                 |                                   | 2.0                               |                                              |         |
|          | W62                 | 576+10       | 578+27     | HMA                    | Left Shoulder     | Milled Sinusoidal Shoulder Rumble Strips (HMA only) |               | 12"      |                  | 2.17             |                          |                 |                                   | 2.0                               |                                              |         |
|          |                     |              |            |                        |                   |                                                     |               | Totals : |                  | 896.83           |                          |                 |                                   |                                   |                                              |         |

|                                                                                                                                                   |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| N.E.1/4 Sec. Center Corner<br>T-65 N R-5W Sec. 9                                                                                                  |                                                                                      | STA. 79+55.80<br>CURVE #1 PC                                                          | STA. 81+66.63<br>CURVE #1 PT                                                          | STA. 86+29.50<br>CURVE #2 PC                                                          | STA. 91+54.70<br>CURVE #2 PT                                                          |
| 5/8" pin in CL                                                                                                                                    |                                                                                      | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        |
| Basis of Bearings--<br>Iowa South 2 State<br>Plane Coordinates  |                                                                                      |    |    |    |    |
| STA. 106+05.49<br>CURVE #3 PC                                                                                                                     | STA. 106+05.49<br>CURVE #3 PT                                                        | STA. 114+42.10<br>CURVE #4 PC                                                         | STA. 130+44.32<br>CURVE #4 PT                                                         | STA. 135+87.80<br>CURVE #5 PC                                                         | STA. 155+06.08<br>CURVE #5 PT                                                         |
| 5/8" pin in CL                                                                                                                                    | 5/8" pin in CL                                                                       | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        |
|                                                                  |    |    |    |    |    |
| STA. 179+50.14<br>CURVE #6 PC                                                                                                                     | STA. 183+20.81<br>CURVE #6 PT                                                        | STA. 184+61.36<br>CURVE #7 PC                                                         | STA. 189+19.45<br>CURVE #7 PT                                                         | STA. 160+88.75<br>CURVE #8 PC                                                         | STA. 200+27.91<br>CURVE #8 PT                                                         |
| 5/8" pin in CL                                                                                                                                    | 5/8" pin in CL                                                                       | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        |
|                                                                |  |  |  |  |  |
| STA. 215+10.50<br>CURVE #9 PC                                                                                                                     | STA. 223+98.85<br>CURVE #9 PT                                                        | STA. 232+38.35<br>CURVE #10 PC                                                        | STA. 238+47.40<br>CURVE #10 PT                                                        | STA. 247+05.90<br>CURVE #11 PC                                                        | STA. 257-19.98<br>CURVE #11 PT                                                        |
| 5/8" pin in CL                                                                                                                                    | 5/8" pin in CL                                                                       | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        | 5/8" pin in CL                                                                        |
|                                                                |  |  |  |  |  |

|                                |                                |                                |                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| STA. 269+91.3<br>CURVE #12 PC  | STA. 274+69.8<br>CURVE #12 PT  | STA. 280+77.39<br>CURVE #13 PC | STA. 283+53.97<br>CURVE #13 PT | STA. 307+28.25<br>CURVE #14 PC | STA. 312+48.89<br>CURVE #14 PT |
| 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 |
|                                |                                |                                |                                |                                |                                |
| STA. 316+97.50<br>CURVE #15 PC | STA. 323+23.91<br>CURVE #15 PT | STA. 337+75.95<br>POT          | STA. 366+60.80<br>POT          | STA. 373+78.30<br>CURVE #16 PC | STA. 394+09.60<br>CURVE #16 PT |
| 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 |
|                                |                                |                                |                                |                                |                                |
| STA. 426+01.60<br>CURVE #17 PC | STA. 432+01.60<br>CURVE #17 PT | STA. 484+61.36<br>CURVE #18 PC | STA. 489+19.45<br>CURVE #18 PT | STA. 456+54.38<br>CURVE #19 PC | STA. 462+58.01<br>CURVE #19 PT |
| 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 |
|                                |                                |                                |                                |                                |                                |
| STA. 477+25.98<br>CURVE #20 PC | STA. 483+87.31<br>CURVE #20 PT | STA. 490+61.05<br>CURVE #21 PC | STA. 506+75.81<br>CURVE #21 PT | STA. 512+15.80<br>CURVE #22 PC | STA. 518+26.63<br>CURVE #22 PT |
| 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 | 5/8" pin in CL                 |
|                                |                                |                                |                                |                                |                                |



GENERAL NOTES:

MONUMENT PRESERVATION CERTIFICATES SHALL BE FILED FOR ALL CENTERLINE POINTS, SECTION CORNERS, AND ANY SURVEY MARKERS EXISTING IN THE ROAD AND RESET FOLLOWING SURFACE LIFT PLACEMENT.

|                  |                  |                   |                   |                   |                   |                   |                   |                   |                   |
|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Curve #1         | Curve #2         | Curve #3          | Curve #4          | Curve #5          | Curve #6          | Curve #7          | Curve #8          | Curve #9          | Curve #10         |
| PC@Sta. 79+55.80 | PC@Sta. 86+29.50 | PC@Sta. 106+05.49 | PC@Sta. 114+42.10 | PC@Sta. 135+87.80 | PC@Sta. 179+50.14 | PC@Sta. 184+61.36 | PC@Sta. 196+35.58 | PC@Sta. 215+10.50 | PC@Sta. 232+88.35 |
| Δ 8°26' RT       | Δ 42°01' RT      | Δ 50°33' RT       | Δ 72°06' LT       | Δ 38°21' RT       | Δ 9°16' LT        | Δ 32°04' RT       | Δ 17°00' LT       | Δ 17°46' LT       | Δ 42°38' LT       |
| D 4°             | D 8°             | D 7°              | D 4°30'           | D 2°              | D 2°30'           | D 7°              | D 4°20'           | D 2°              | D 7°              |
| L 210.80'        | L 525.20'        | L 722.14'         | L 1602.22'        | L 1917.50'        | L 370.67'         | L 458.09'         | L 392.33'         | L 888.35'         | L 609.05'         |
| T 105.60'        | T 275.05'        | T 386.50'         | T 926.82'         | T 996.30'         | T 185.76'         | T 235.24'         | T 197.65'         | T 447.80'         | T 319.43'         |
| E 3.90'          | E 51.00'         | E 86.60'          | E 301.60'         | E 168.30'         | E 7.60'           | E 33.10'          | E 14.69'          | E 34.80'          | E 60.10'          |
| R 1432.8'        | R 716.2'         | R 818.6'          | R 1273.3'         | R 2865.0'         | R 2292.0'         | R 818.6'          | R 1322.4'         | R 2865.0'         | R 818.6'          |

|                   |                   |                   |                   |                   |                   |                  |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|
| Curve #11         | Curve #12         | Curve #13         | Curve #14         | Curve #15         | Curve #16         | Curve #17        | Curve #18         | Curve #19         | Curve #20         |
| PC@Sta. 247+05.90 | PC@Sta. 269+91.23 | PC@Sta. 280+77.39 | PC@Sta. 307+28.25 | PC@Sta. 316+97.50 | PC@Sta. 373+78.30 | PC@Sta. 426+01.6 | PC@Sta. 443+35.44 | PC@Sta. 456+54.38 | PC@Sta. 477+25.98 |
| Δ 40°29' LT       | Δ 33°30' LT       | Δ 14°45' RT       | Δ 6°30' RT        | Δ 8°21' LT        | Δ 27°05' RT       | Δ 15°00' LT      | Δ 46°06' LT       | Δ 22°08' RT       | Δ 33°04' RT       |
| D 4°              | D 7°              | D 5°20'           | D 1°15'           | D 1°20'           | D 1°20'           | D 2°30'          | D 5°              | D 3°40'           | D 5°00'           |
| L 1012.08'        | L 478.51'         | L 276.58'         | L 520.00'         | L 626.41'         | L 2031.30'        | L 600.00'        | L 922.00'         | L 603.63'         | L 661.33'         |
| T 528.22'         | T 246.37'         | T 139.08'         | T 260.32'         | T 313.73'         | T 1035.30'        | T 301.76'        | T 487.62'         | T 305.64'         | T 340.18'         |
| E 94.30'          | E 36.30'          | E 8.96'           | E 7.40'           | E 11.40'          | E 122.90'         | E 19.80'         | E 99.40'          | E 29.60'          | E 49.40'          |
| R 1432.5'         | R 818.6'          | R 1074.4'         | R 4854.0'         | R 4279.5'         | R 4297.5'         | R 2,292.0'       | R 1,146.0'        | R 1562.7'         | R 1,146.0'        |

|                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|
| Curve #21         | Curve #22         | Curve #23         | Curve #24         |
| PC@Sta. 490+61.05 | PC@Sta. 512+15.80 | PC@Sta. 531+19.43 | PC@Sta. 539+93.97 |
| Δ 113°02' LT      | Δ 6°06'30" RT     | Δ 35°42' RT       | Δ 17°42' RT       |
| D 7°00'           | D 1°00'           | D 7°00'           | D 2°40'           |
| L 1,614.76'       | L 610.84'         | L 510.00'         | L 663.74'         |
| T 1,237.51'       | T 305.70'         | T 263.60'         | T 334.57'         |
| E 665.20'         | E 8.20'           | E 41.40'          | E 25.90'          |
| R 818.6'          | R 5,730.0'        | R 818.6'          | R 2,148.7'        |