

ALLAMAKEE COUNTY
STPN-026-1(31)--2J-03
MICROSURFACING

LETTING DATE
FEB. 21, 2023

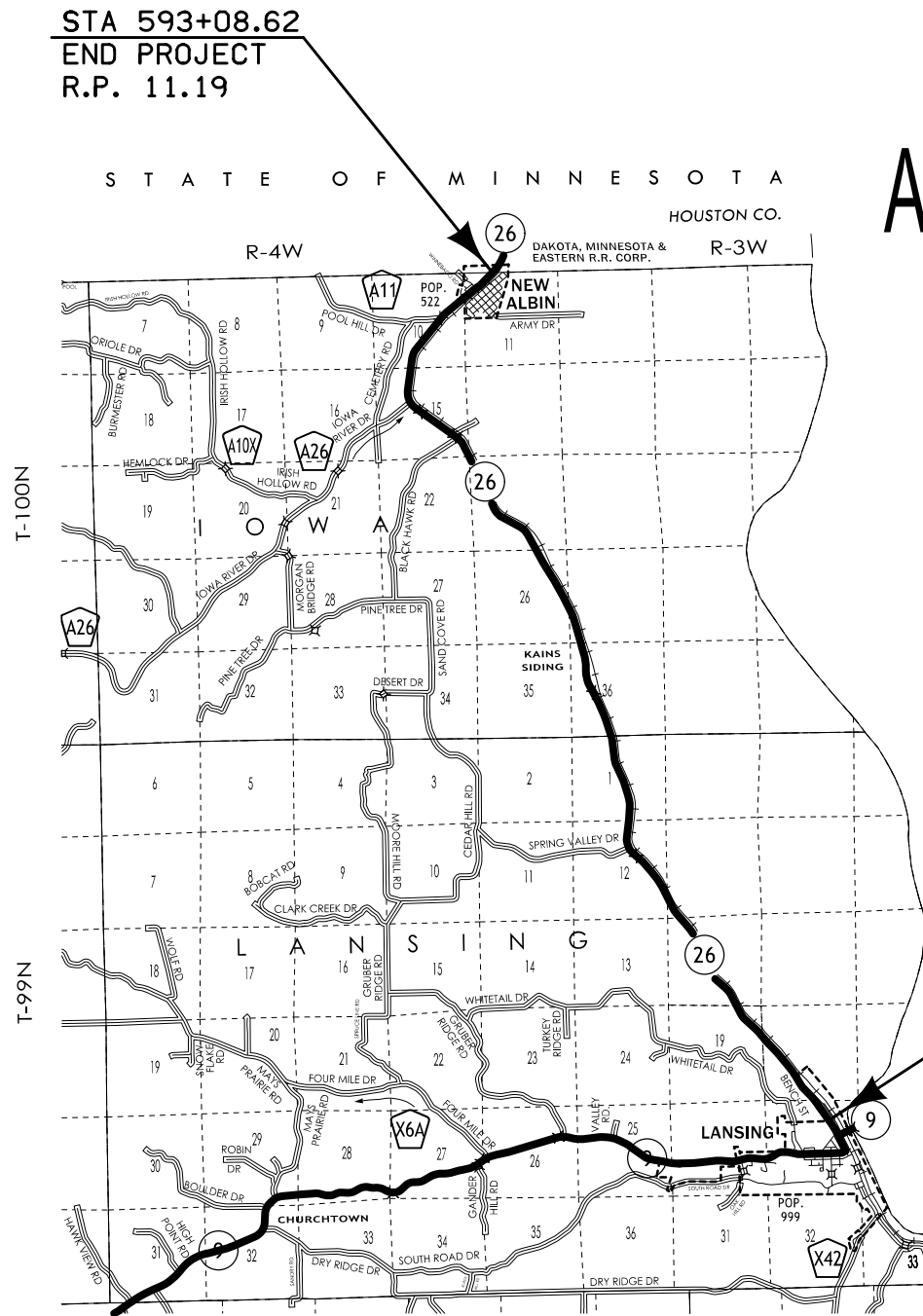


PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM ALLAMAKEE COUNTY

MICROSURFACING

Jct IA 9 in Lansing to Minnesota State Line



SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.
 Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

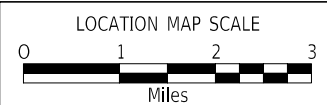


**STA 2+32.64
BEGIN PROJECT
R.P. 0.07**

**STA 593+08.62
END PROJECT
R.P. 11.19**

From 0.1 Mi S of Front St., in Lansing,
North to WCL New Albin

| DESIGN DATA RURAL | |
|--------------------|--------------|
| 2021 AADT | 1,740 V.P.D. |
| 20 -- AADT | -- V.P.D. |
| 20 -- DHV | -- V.P.H. |
| TRUCKS | 11 % |
| Total Design ESALs | -- |



REVISIONS

TOTAL
11

| | |
|-------------------------------|-----------------------|
| PROJECT IDENTIFICATION NUMBER | 21-03-026-010 |
| PROJECT NUMBER | STPN-026-1(31)--2J-03 |
| R.O.W. PROJECT NUMBER | |

INDEX OF SHEETS

105-3
10-18-05

| | |
|---------|---|
| A.1 | Title sheet, Location Map and Legend |
| C.1-C.4 | Estimate of Quantities, General Notes and Tabulations |
| J.1 | Traffic Control Sheet |
| S.1-S.5 | Sidewalk Details |
| U.1 | Special Detail Sheets |

MILEAGE SUMMARY

105-1
09-27-94

| Div. | Location | Lin. Ft. | Miles |
|------|---|------------------|---------------|
| | Sta. 2+32.64 to Sta. 593+08.62 | 59,075.98 | 11.189 |
| | Total Net Length of Roadway in Project | 59,075.98 | 11.189 |

ROADWAY DESIGN



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

Signature: _____ Date: XX-XX-XXXX
 Printed or Typed Name: **MARY K. KELLY**
 My license renewal date is December 31, 2022

Pages or sheets covered by this seal: X A.1, C.1-C.4, J.1, S.1-S.5, U.1
 X

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

| Item no. | Item Code | Item | Unit | Quantities | | Estimate Reference Notes |
|----------|--------------|--|------|---------------|--|---|
| | | | | Estimated | | |
| | | | | Roadway Items | | |
| 1 | 2213-6745500 | REMOVAL OF CURB | STA | 0.4 | | See Sheets S.1 & S.2 for additional information. |
| 2 | 2308-1000000 | ASPHALT EMULSION FOR FOG SEAL (SHOULDERS) | GAL | 13,128 | | Shoulder width varies from 2' to 6'. A nominal width of 5' was used for quantity x 2 x length of the project. Quantity is for undiluted asphalt emulsion calculated at 0.20 gallons(diluted) per square yard. |
| 3 | 2320-0000004 | AGGREGATE FOR MICROSURFACING, FRICTION L-4 | TON | 2,507 | | Quantity is estimated at 18 pounds per square yard for the first course and 16 pounds per square yard for the second course. |
| 4 | 2320-0000020 | PREPARATION OF SURFACE FOR MICROSURFACING | MILE | 20.9 | | Length includes 20.9 miles of 24 ft wide mainline pavement. PCC, bridges and PCC approaches shall not be microsurfaced. |
| 5 | 2320-0000030 | EMULSIFIED ASPHALT FOR MICROSURFACING | GAL | 83,340 | | Quantity was calculated using the following assumptions: 1) The weight of residual asphalt is 9% of the weight of the aggregate 2) Emulsion contains 65% residual asphalt by weight 3) A gallon of emulsion weighs 8.33 pounds |
| 6 | 2511-6745900 | REMOVAL OF SIDEWALK | SY | 84.8 | | Refer to S-Sheets for additional information. |
| 7 | 2511-7526004 | SIDEWALK, P.C. CONCRETE, 4 IN. | SY | 68.1 | | |
| 8 | 2511-7526006 | SIDEWALK, P.C. CONCRETE, 6 IN. | SY | 25.7 | | |
| 9 | 2511-7528101 | DETECTABLE WARNINGS | SF | 94 | | |
| 10 | 2512-1725206 | CURB AND GUTTER, P.C. CONCRETE, 2.0 FT. | LF | 37.7 | | An additional 0.5 SY of PCC is required to complete a variable width section near the bank. See Sheet S.2 for additional information. |
| 11 | 2527-9263137 | PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED | EACH | 6,161.32 | | Refer to Tabulations 108-22 for additional information. |
| 12 | 2528-8445110 | TRAFFIC CONTROL | LS | 1 | | Refer to Tabulation 108-23A for additional information. |
| 13 | 2528-8445113 | FLAGGERS | EACH | 0 | | See Proposal. |
| 14 | 2528-8445115 | PILOT CARS | EACH | 0 | | |
| 15 | 2531-5200010 | PAVEMENT SURFACE REPAIR (MILLING LIMESTONE) | SY | 147,465 | | Pavement to be milled a nominal 3/8 inch, 24 foot wide prior to placing microsurfacing. The speed of the milling machine shall be coordinated with the Engineer to obtain the desired milled surface. |
| 16 | 2533-4980005 | MOBILIZATION | LS | 1 | | -- |
| 17 | 2548-0000310 | MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE | STA | 501.61 | | Refer to tabulation 112-10 for additional information. |
| 18 | 2548-0000320 | MILLED CENTERLINE RUMBLE STRIPS, PCC SURFACE | STA | 17.9 | | |

| Item no. | Item Code | Item | Unit | Quantities | | Estimate Reference Notes |
|----------|--------------|--|------|---------------|--|---|
| | | | | Estimated | | |
| | | | | Roadway Items | | |
| 19 | 2599-9999010 | ('LUMP SUM' ITEM) 8 IN. CMP CULVERT UNDER SIDEWALK | LS | 1 | | <p>Item is for the construction of a culvert under the sidewalk in the southwest quadrant at Rogers St. in New Albin. See Sheet U.1 for additional information.</p> <p>Method of measurement and basis of payment is full compensation for all work, including means necessary to remove existing flume, grading, furnishing and installing culvert, wire reinforcing mesh, and concrete to the satisfaction of the Engineer.</p> |
| | | | | | | |
| | | | | | | |

EXISTING PAVEMENT

| No. | Location | | | | | Year | Type | Project Number | Surface | | Base | | Subbase | | Removal | | Coarse Aggregate | | | Reinforcement | Remarks | |
|-----|----------|-------|----------------|----------------------|--------------------|--------------|------|---|------------|------------|------|-------|---------|-------|---------|-------|------------------|--------|------------------|---------------|--|------|
| | County | Route | Dir. of Travel | Begin Ref. Loc. Sign | End Ref. Loc. Sign | | | | Type | Depth | Type | Depth | Type | Depth | Type | Depth | Source | Type | Durability Class | | | Type |
| | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3 | 26 | | 0.53 | 11.12 | 2008 2006 | | STP-26-1(12)--2C-03 MP-26-2(703)0--76-03 | HMA HMA | 1.5 1.5 | | | | | | | Poolhill Quarry | Dolom. | | | Existing riding surface Existing riding surf.- Spot resurf. | |

105-4
10-18-11

STANDARD ROAD PLANS

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

| Number | Date | Title |
|--------|----------|--|
| MI-220 | 10-20-15 | Detectable Warnings and Pedestrian Ramp |
| PM-110 | 04-21-20 | Line Types |
| PM-420 | 10-15-19 | Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition) |
| PV-13 | 10-17-17 | Milled Centerline Rumble Strips |
| PV-101 | 04-19-22 | Joints |
| PV-102 | 04-21-20 | PCC Curb Details |
| TC-1 | 10-15-19 | Work Not Affecting Traffic (Two-Lane or Multi-Lane) |
| TC-202 | 10-19-21 | Work Within 15 ft of Traveled Way |
| TC-213 | 10-15-19 | Lane Closure with Flaggers |
| TC-214 | 04-21-20 | Lane Closure with Flaggers for use with Pilot Car |

100-1D
10-18-05

PROJECT DESCRIPTION

Project includes microsurfacing from Lansing to New Albin. Project also includes centerline rumble strips, shoulder fog sealing and ADA sidewalk work in New Albin.

290-01
04-15-14

SIDEWALK CONSTRAINTS

1. Widths:
Widths listed in the S sheets are minimums.
2. Cross Slopes:
Construct all sidewalks, curb ramps, and landings/turning spaces at a target cross slope of 1.5%. Cross slopes exceeding 2.0% will not be allowed, except for areas tying into existing pavement. In these areas, transition from existing pavement cross slope to a cross slope of less than 2.0% within one panel at a rate not to exceed 1.0% per foot.
3. Longitudinal Slopes:
 - a. Sidewalk:
 - i. Roadway slope exceeds 5.0%: Sidewalk longitudinal slope exceeding the roadway slope by more than 2.0% will not be allowed.
 - ii. Roadway slope 5.0% or less: Sidewalk longitudinal slope exceeding 5.0% will not be allowed.
 - b. Ramps:
 - i. Ramps 15.0' in length or less: Longitudinal slope exceeding 8.3% will not be allowed.
 - ii. Ramps greater than 15.0' in length: Construct with the longitudinal slope necessary to conform to the design.
4. Landing/Turning Spaces:
Longitudinal slopes exceeding 2.0% will not be allowed.

262-6
10-18-05

UTILITIES

(NOT A POINT 25 PROJECT)

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

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose ar

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

BCY4: Broken Centerline (Yellow) @ 0.25

DCY4: Double Centerline (Yellow) @ 2.00

NPY4: No Passing Zone Line (Yellow) @ 1.25

BLW4: Broken Lane Line (White) @ 0.25

ELW4: Edge Line Right (White) @ 1.00

ELY4: Edge Line Left (Yellow) @ 1.00

CBW6: Crosswalk Bar (White) @ 15.00

| Road ID | Location | | | Marking Type | Side | | | Length by Line Type (Unfactored) | | | | | | | | | | | | Remarks | | | | | | |
|--|----------|-----|------|--------------------------|------|---|---|----------------------------------|--------|---------|------|---------|------|-------|---------|-----|------|-----|-----|---------|-----|---|---|---|---------------|------------------|
| | | | | | | | | BCY4* | DCY4 | NPY4** | BLW4 | ELW4 | ELY4 | CBW6 | | | | | | | | | | | | |
| | | | | | | | | STA | STA | STA | STA | STA | STA | STA | STA | STA | STA | STA | STA | | STA | | | | | |
| IA 26 | BOP | EOP | BOTH | Waterborne/Solvent Paint | X | X | X | 323.61 | 54.17 | 168.17 | | | | | 1105.99 | | | | | | | | | | After milling | |
| | | | BOTH | Waterborne/Solvent Paint | X | X | X | 323.61 | 54.17 | 168.17 | | | | | 1105.99 | | | | | | | | | | | After 1st course |
| | | | BOTH | Waterborne/Solvent Paint | X | X | X | 323.61 | 54.17 | 168.17 | | | | | 1105.99 | | | | | | | | | | | After 2nd course |
| | | | BOTH | Waterborne/Solvent Paint | X | X | X | 325.62 | 91.77 | 168.17 | | | | | 1181.52 | | 1.22 | | | | | | | | | |
| Factored Total: Waterborne/Solvent Paint | | | | | | | | 324.11 | 508.57 | 840.85 | - | 4499.49 | - | 18.30 | - | - | - | - | - | - | - | - | - | - | - | |
| Bid Quantity: Painted Pavement Markings, Waterborne or Solvent-Based | | | | | | | | | | 6191.32 | | | | | | | | | | | | | | | | |
| NOTE: Line type CBW6 will be painted on IA 26 only. No side street crossings are calculated. | | | | | | | | | | | | | | | | | | | | | | | | | | |

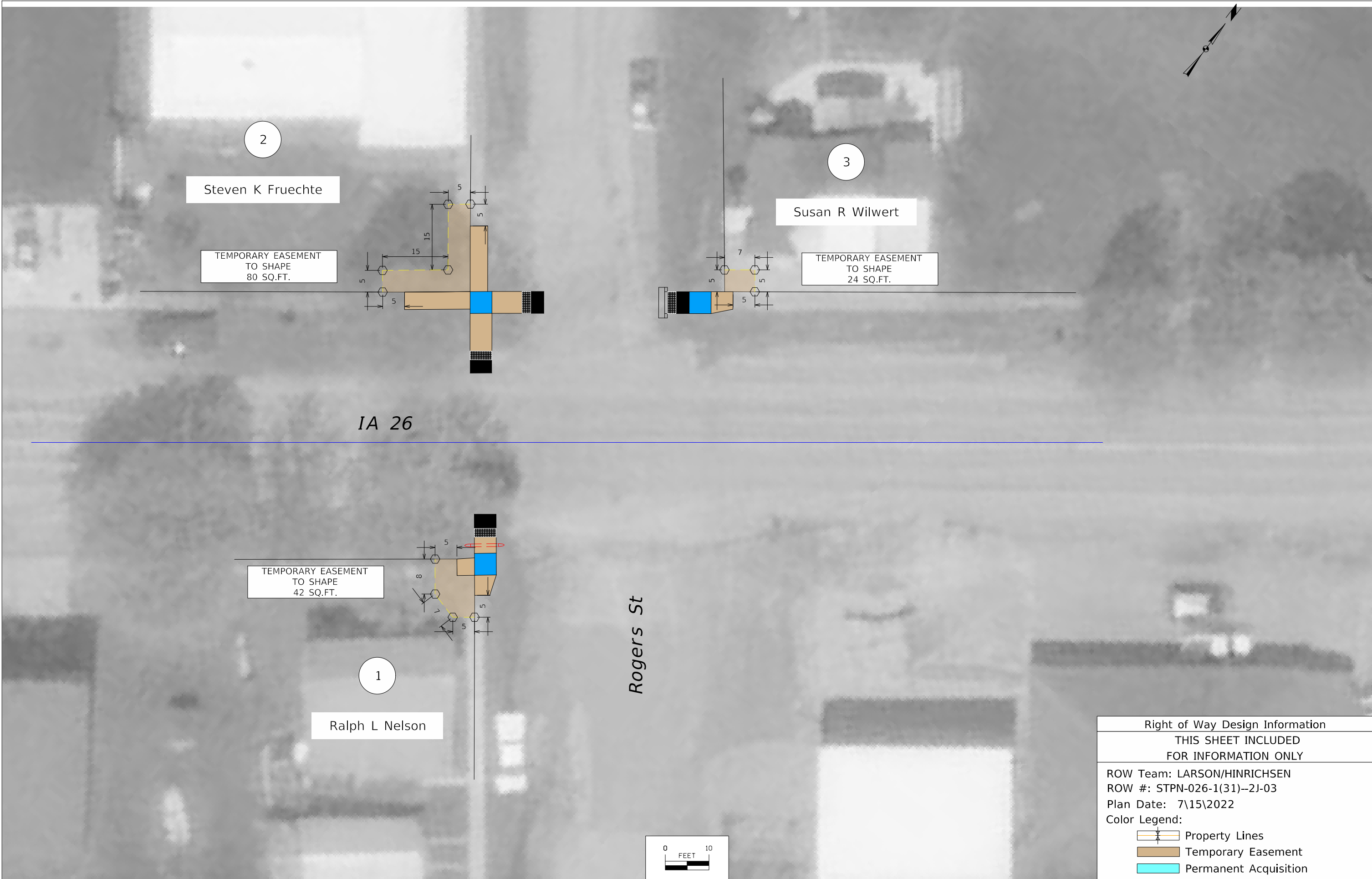
MILLED RUMBLE STRIPS

See PV-12 and PV-13

* Calculated at 18" width for Shoulder.




| Road Identification | Station to Station | | Location | | Rumble Strip Type (Centerline, Rt or Lt Shoulder) | Installation Length | Fog Seal* (Milled Rumble Strip) Shoulder | Effective Shoulder Width | | | Remarks | | | | | |
|---------------------|--------------------|-----------|----------|--|--|---------------------|--|--------------------------|-----------|-----------------|---------|----|-----|-----|----|----------------|
| | | | | | | | | PCC Paved | HMA Paved | Granular\ Earth | | | | | | |
| | | | | | | | | | | | | IN | STA | STA | | |
| | | | | | | | | | | | | | | | FT | FT |
| IA 26 | 43+10.00 | 195+32.07 | | | Centerline | | 175.75 | | | | | | | | | Begin @ 55 MPH |
| IA 26 | 198+64.21 | 456+06.06 | | | Centerline | | 257.42 | | | | | | | | | |
| IA 26 | 456+06.06 | 473+95.79 | | | Centerline | 17.90 | | | | | | | | | | |
| IA 26 | 473+95.79 | 486+15.72 | | | Centerline | | 12.20 | | | | | | | | | |
| IA 26 | 489+12.91 | 545+37.00 | | | Centerline | | 56.24 | | | | | | | | | End @ 50 MPH |
| Totals | | | | | | 17.90 | 501.61 | | | | | | | | | |

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



IA 26

Rogers St

| | |
|---|-----------------------|
| Right of Way Design Information | |
| THIS SHEET INCLUDED FOR INFORMATION ONLY | |
| ROW Team: LARSON/HINRICHSEN | |
| ROW #: STPN-026-1(31)--2J-03 | |
| Plan Date: 7\15\2022 | |
| Color Legend: | |
|  | Property Lines |
|  | Temporary Easement |
|  | Permanent Acquisition |



5

New Albin Charities Inc

TEMPORARY EASEMENT TO SHAPE 82 SQ.FT.

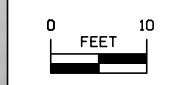
IA 26

TEMPORARY EASEMENT TO SHAPE 20 SQ.FT.

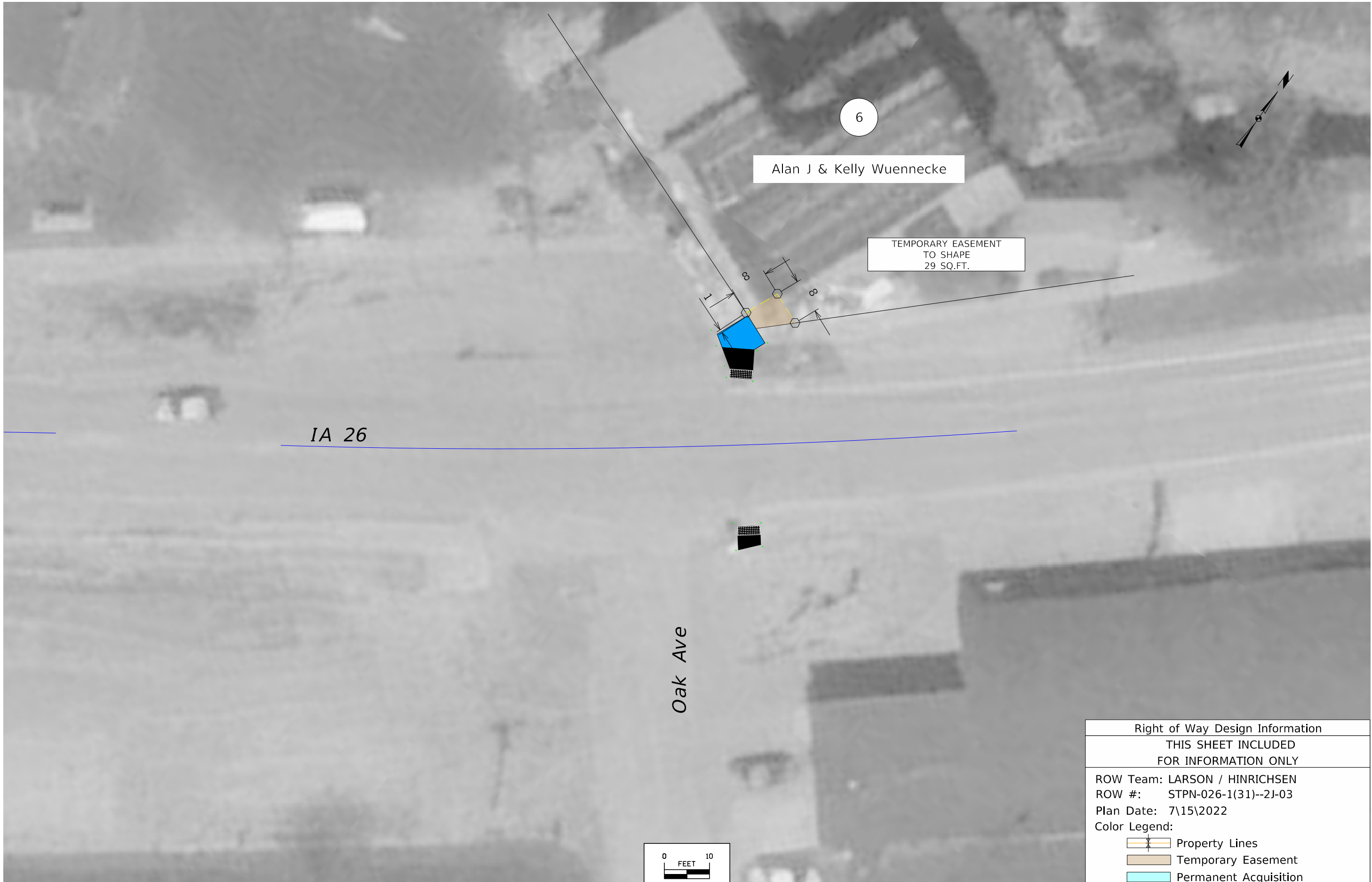
4

Larry T & Robin Harmon

Ross Ave



| | |
|--|-----------------------|
| Right of Way Design Information | |
| THIS SHEET INCLUDED FOR INFORMATION ONLY | |
| ROW Team: LARSON/HINRICHSEN | |
| ROW #: STPN-026-1(31)--2J-03 | |
| Plan Date: 7\15\2022 | |
| Color Legend: | |
| | Property Lines |
| | Temporary Easement |
| | Permanent Acquisition |



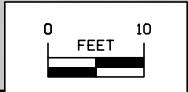
Alan J & Kelly Wuennecke

TEMPORARY EASEMENT
TO SHAPE
29 SQ.FT.

IA 26

Oak Ave

| Right of Way Design Information | |
|--|-----------------------|
| THIS SHEET INCLUDED FOR INFORMATION ONLY | |
| ROW Team: LARSON / HINRICHSEN | |
| ROW #: STPN-026-1(31)--2J-03 | |
| Plan Date: 7\15\2022 | |
| Color Legend: | |
| | Property Lines |
| | Temporary Easement |
| | Permanent Acquisition |



511 TRAVEL RESTRICTIONS

| Route | Direction | County | Location Description | Feature Crossed | Object Type | Maint. Bridge No., Structure ID, or FHWA No. | Type of Restriction | Existing Measurement | Construction Measurement | Construction Measurement as Signed | Projected As Built Measurement | Remarks |
|------------------------------------|-----------|--------|----------------------|-----------------|-------------|--|------------------------|-------------------------|-----------------------------|--|--------------------------------------|---------|
| No travel restrictions anticipated | | | | | | | | | | | | |
| | | | | | | | | | | | | |

108-23A
08-01-08

TRAFFIC CONTROL PLAN

Through traffic shall be maintained at all times.
Sidewalks at the intersection of Rogers St., Ross Ave., and Oak Ave. in New Albin to be closed to pedestrian traffic during sidewalk construction using R9-9 signs prior to all construction. Contractor to coordinate construction times with the bank, restaurant and The Meat Market and only one pedestrian intersection may be closed at a time.

111-01
04-17-12

COORDINATED OPERATIONS

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

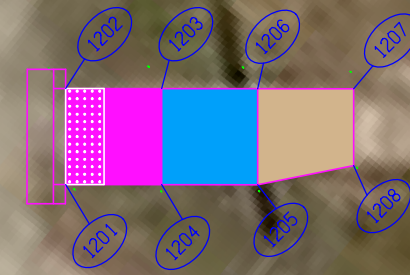
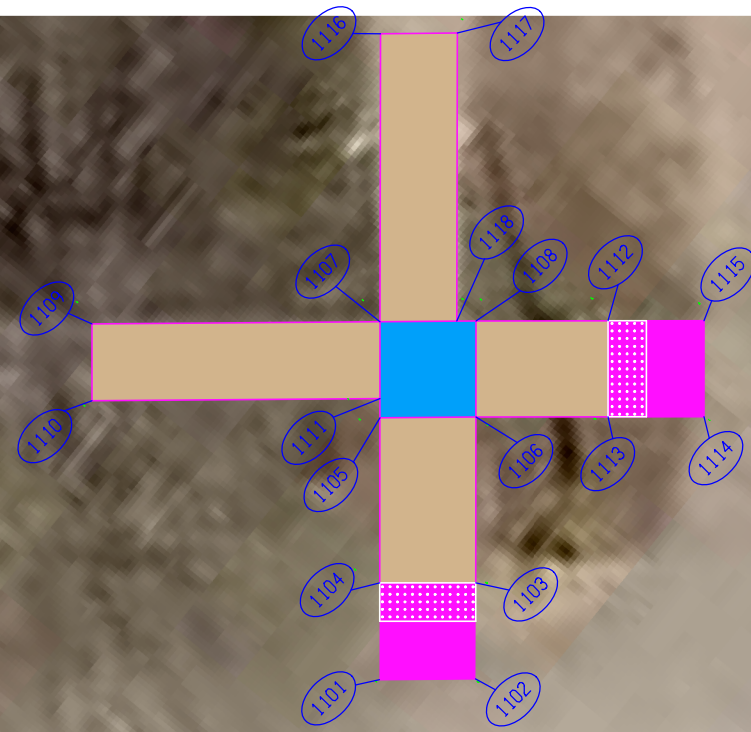
| Project | Type of Work |
|----------------------------|--------------|
| To be discussed at precon. | |
| | |
| | |

Northwest Quadrant Quantities

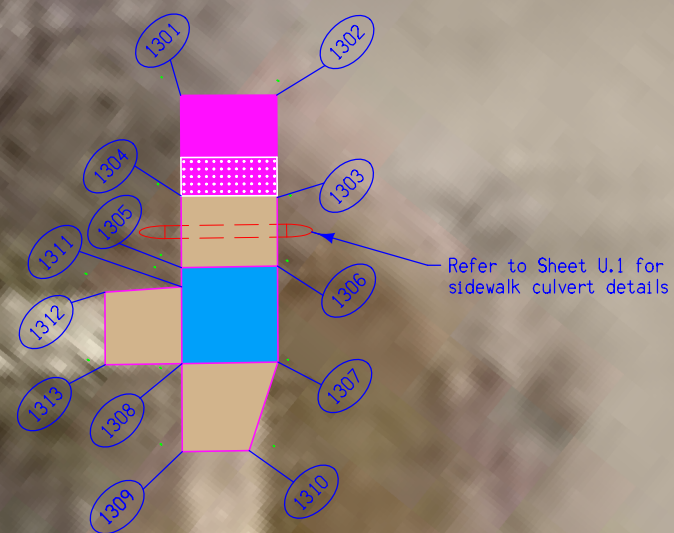
Removal of Sidewalk = 25.0 SY
 4" Sidewalk = 24.2 SY
 6" Sidewalk = 5.6 SY
 2' Detectable Warning = 20.0 SF

Northeast Quadrant Quantities

Removal of Sidewalk = 6.8 SY
 4" Sidewalk = 5.3 SY
 6" Sidewalk = 2.8 SY
 2' Detectable Warning = 10.0 SF
 2' Curb and Gutter, PCC = 7.0 LF

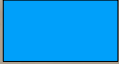
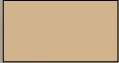


IA 26



ROGERS ST.

SIDEWALK LEGEND

-  Proposed Sidewalk Landing Shading
-  Proposed Sidewalk Shading
-  Proposed Sidewalk Ramp Shading
-  Proposed Truncated Domes



Northwest Quadrant Quantities

Removal of Sidewalk = 77.0 SY
 4" Sidewalk = 78.5 SY
 6" Sidewalk = 26.1 SY
 2' Detectable Warning = 10.0 SF

SIDEWALK DETAILS - IA 26 & ROGERS ST.



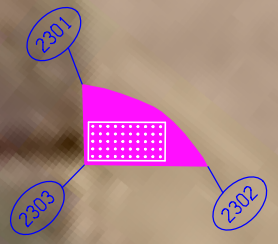
| Northeast Quadrant Quantities | |
|-------------------------------|-----------|
| Removal of Sidewalk | = 28.3 SY |
| 4" Sidewalk | = 24.5 SY |
| 6" Sidewalk | = 3.8 SY |
| 2' Detectable Warning | = 18.0 SF |
| 2' Curb and Gutter, PCC | = 30.7 LF |

New curb and gutter to match top of curb and gutterline of existing. Maintain drainage pattern.

IA 26

SIDEWALK LEGEND

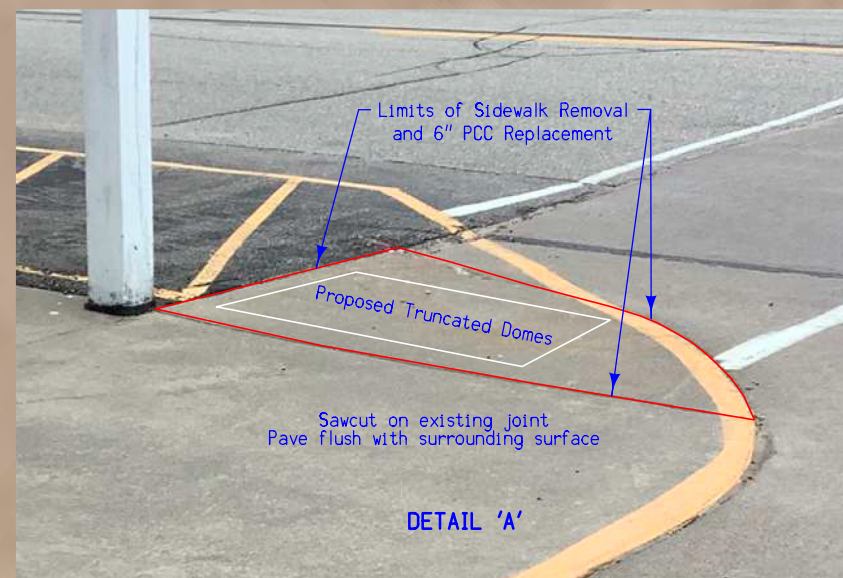
- Proposed Sidewalk Landing Shading
- Proposed Sidewalk Shading
- Proposed Sidewalk Ramp Shading
- Proposed Truncated Domes



See Detail 'A' for additional information

| Southwest Quadrant Quantities | |
|-------------------------------|-----------|
| Removal of Sidewalk | = 2.1 SY |
| 6" Sidewalk | = 2.1 SY |
| 2' Detectable Warning | = 10.0 SF |

ROSS AVE.



SIDEWALK DETAILS - IA 26 & ROSS AVE.

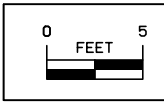
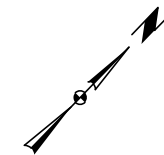


Northeast Quadrant Quantities
 Removal of Sidewalk = 9.6 SY
 4" Sidewalk = 5.4 SY
 6" Sidewalk = 4.2 SY
 2' Detectable Warning = 10.0 SF

Southeast Quadrant Quantities
 Removal of Sidewalk = 2.6 SY
 6" Sidewalk = 2.6 SY
 2' Detectable Warning = 10.0 SF

SIDEWALK LEGEND

-  Proposed Sidewalk Landing Shading
-  Proposed Sidewalk Ramp Shading
-  Proposed Truncated Domes



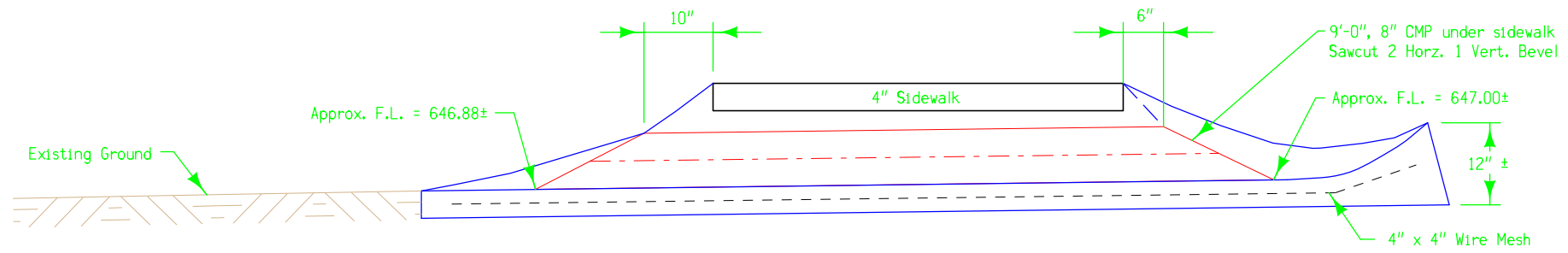
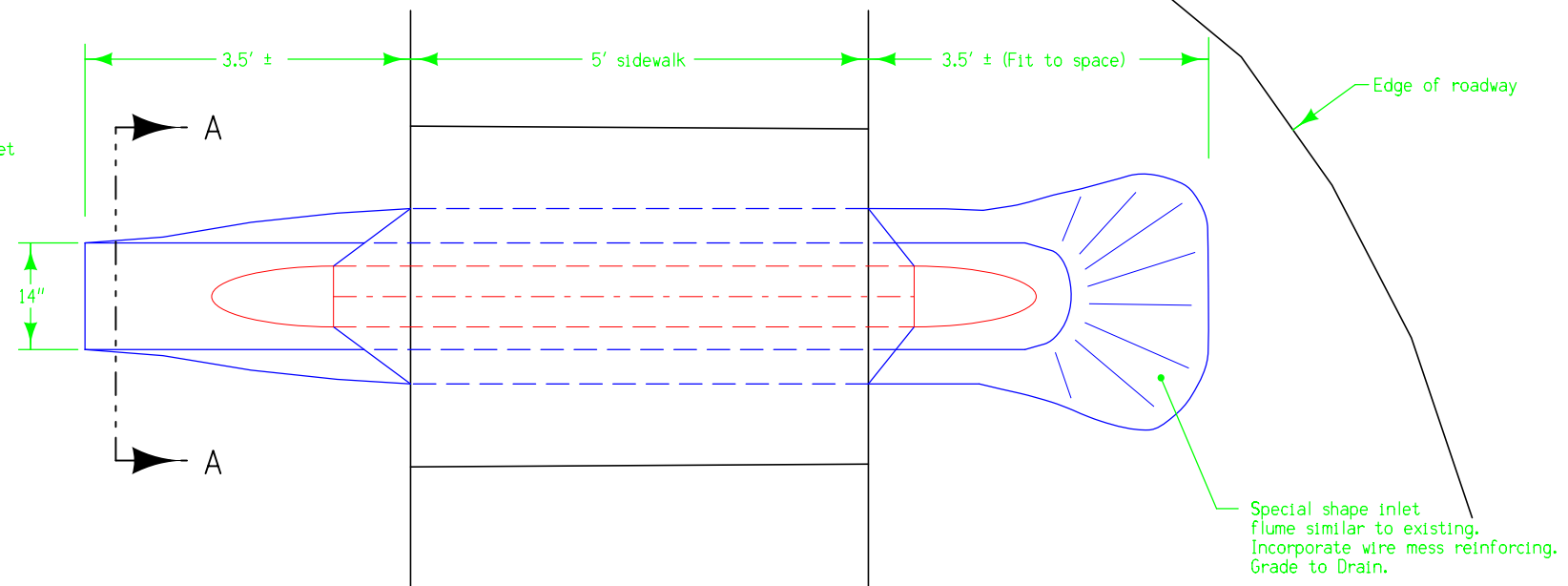
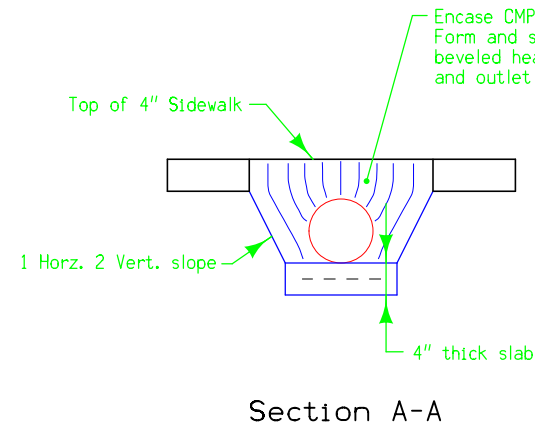
SIDEWALK DETAILS - IA 26 & OAK ST.

SIDEWALK COMPLIANCE

See S Sheets

- * Does not include curb
- ① Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
- ② Refer to tabulation 113-01 for bid quantities.

| Point to Point | Sidewalk Designation | _" PCC Sidewalk ② | Distance* | | Slope | Acceptable Constructed Range | Staking Required on this Quadrant? ① | Measured Slope | Initials | Remarks | FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES | | | | | |
|----------------|----------------------|--|-----------|-------|-------|------------------------------|---|----------------|----------|---|---|-------------|-------------|-----------|--|--|
| | | | FT | FT | | | | | | | Point | Northing | Easting | Elevation | | |
| 2116 | 2119 | Sidewalk Running Slope | 4 | 10.23 | 0.40 | 3.9% | 0.5% to 5.0% | | | | | | | | | |
| 2117 | 2118 | Sidewalk Running Slope | 4 | 10.20 | 0.38 | 3.7% | 0.5% to 5.0% | | | | | | | | | |
| 2118 | 2119 | Sidewalk Cross Slope | 4 | 4.00 | 0.02 | 0.5% | 0.5% to 2.0% | | | | | | | | | |
| 2201 | 2202 | Ramp Cross Slope | 6 | 4.00 | 0.00 | 0.0% | 0.1% to 2.0% | | | Replace 4' x 4' panel in-kind with detectable warnings | 2201 | 94834+09.30 | 13476249.82 | 651.29 | | |
| 2202 | 2203 | Ramp Running Slope | 6 | 4.00 | -0.03 | -0.7% | 0.5% to 8.3% | | | | 2202 | 94834+12.47 | 13476247.38 | 651.29 | | |
| 2201 | 2204 | Ramp Running Slope | 6 | 4.00 | -0.03 | -0.7% | 0.5% to 8.3% | | | | 2203 | 94834+14.91 | 13476250.56 | 651.26 | | |
| 2203 | 2204 | Ramp Cross Slope | 6 | 4.00 | 0.00 | 0.0% | 0.1% to 2.0% | | | | 2204 | 94834+11.73 | 13476252.99 | 651.26 | | |
| 2301 | 2302 | Crosswalk Cross Slope - No Yield Condition | 6 | 7.85 | -0.21 | -2.7% | 0.0% to 5.0% | | | Replace panel in-kind with detectable warnings. See sht S.2 | 2301 | 94833+25.55 | 13476225.98 | 651.75 | | |
| 2302 | 2303 | Ramp Cross Slope | 6 | 6.45 | 0.40 | 6.2% | 0.1% to 7.2% | | | Slope required to match existing conditions | 2302 | 94833+26.13 | 13476233.80 | 651.54 | | |
| 2301 | 2303 | Ramp Running Slope | 6 | 4.22 | 0.19 | 4.5% | 0.5% to 8.3% | | | | 2303 | 94833+22.27 | 13476228.64 | 651.94 | | |
| 3101 | 3102 | Crosswalk Cross Slope - No Yield Condition | 6 | 5.00 | -0.05 | -0.9% | 0.0% to 5.0% | | | | 3101 | 94835+18.93 | 13476441.63 | 650.71 | | |
| 3101 | 3104 | Ramp Running Slope | 6 | 2.00 | -0.11 | -5.5% | 0.5% to 8.3% | | | | 3102 | 94835+21.56 | 13476445.88 | 650.66 | | |
| 3102 | 3103 | Ramp Running Slope | 6 | 6.62 | -0.16 | -2.5% | 0.5% to 8.3% | | | | 3103 | 94835+27.19 | 13476442.40 | 650.50 | | |
| 3104 | 3105 | Ramp Running Slope | 6 | 5.08 | -0.02 | -0.5% | 0.5% to 8.3% | | | | 3104 | 94835+20.63 | 13476440.58 | 650.60 | | |
| 3105 | 3103 | Ramp Cross Slope | 6 | 7.02 | -0.08 | -1.1% | 0.1% to 2.0% | | | | 3105 | 94835+23.46 | 13476436.35 | 650.58 | | |
| 3105 | 3106 | Landing/Turning Space | 4 | 3.14 | 0.05 | 1.5% | 0.1% to 2.0% | | | | 3106 | 94835+25.20 | 13476433.74 | 650.62 | | |
| 3106 | 3107 | Landing/Turning Space | 4 | 7.97 | 0.10 | 1.3% | 0.1% to 2.0% | | | | 3107 | 94835+32.53 | 13476436.87 | 650.73 | | |
| 3107 | 3108 | Landing/Turning Space | 4 | 7.17 | -0.33 | -4.6% | 0.1% to 5.6% | | | Slope required to match existing conditions | 3108 | 94835+29.77 | 13476443.50 | 650.40 | | |
| 3108 | 3103 | Landing/Turning Space | 4 | 2.80 | 0.10 | 3.7% | 0.1% to 4.7% | | | Slope required to match existing conditions | | | | | | |



Existing Flume



Existing Flume

SPECIAL DETAIL SIDEWALK CULVERT