

# CITY OF DYERSVILLE

## TRAFFIC SIGNALS

INTERSECTION OF US 52 AND 12TH AVENUE

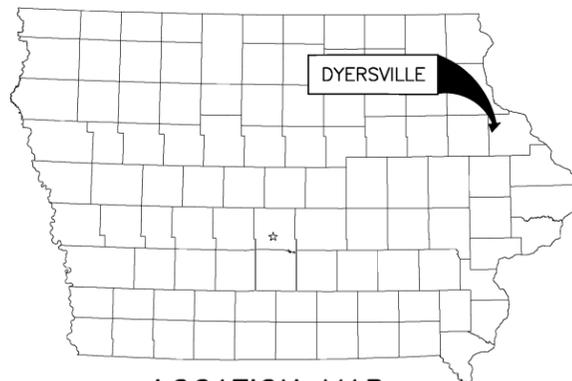
DYERSVILLE, IOWA

PROJECT NO. 2505625

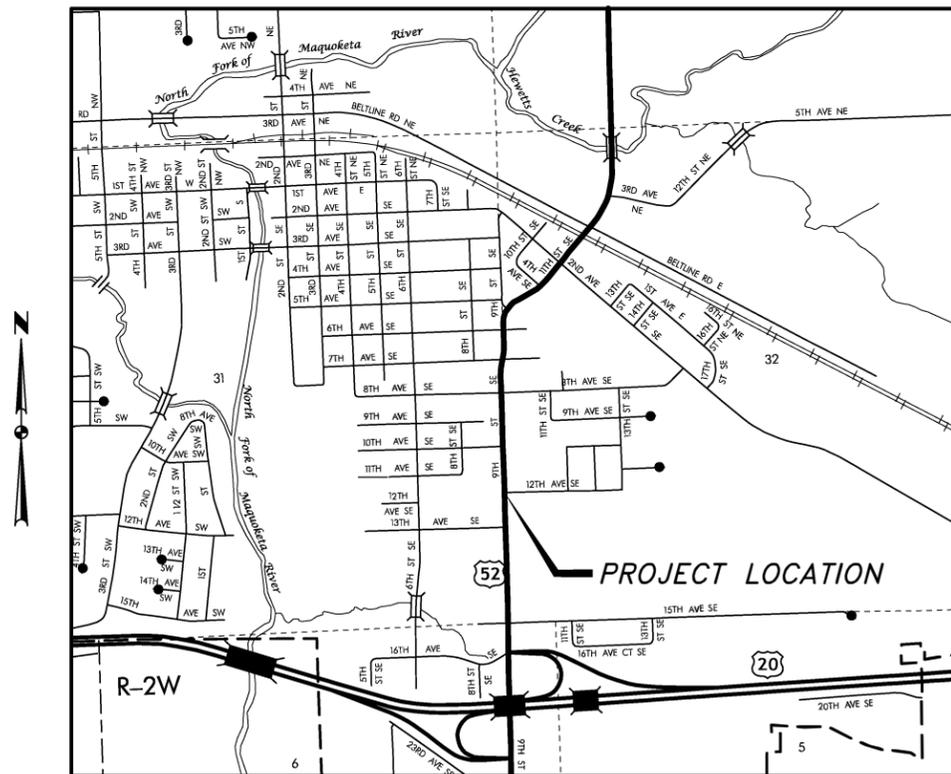
CONTRACTOR SHALL CONTACT



WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREAS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATIONS OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER.



LOCATION MAP  
NO SCALE



VICINITY MAP  
NO SCALE

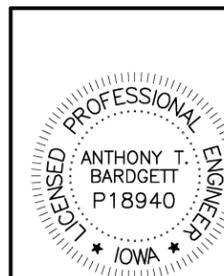
### INDEX OF SHEETS

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The Statewide Urban Specifications for Public Improvements, 2025 Edition, referred to herein as SUDAS, shall apply to construction work on this project, as specified in the estimate reference information.

SUDAS Program  
2711 S. Loop Drive Suite 4700  
Ames, IA 50010  
Ph: 515-294-2869

These specifications are also available on-line at:  
[www.iowasudas.org](http://www.iowasudas.org)



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.

*Anthony Bardgett* 11-17-25  
ANTHONY T. BARDGETT, P.E. DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025.  
LICENSE NO. P18940

PAGES OR SHEETS COVERED BY THIS SEAL:  
ALL SHEETS

**KIRKHAM  
MICHAEL**

# LEGEND

|                               | Existing or Found  | Proposed                 |
|-------------------------------|--------------------|--------------------------|
| Temporary Easement Line       | - T/E - - - -      | - T/E - - - -            |
| Property Line                 | - P - - - -        | - P - - - -              |
| Construction Limits           | - - - - -          | - - - - -                |
| Right-of-Way Line             | - R/W - - - -      | - R/W - - - -            |
| Fence (Barbed, Field, Hog)    | - x - - - -        | - x - - - -              |
| Fence (Chain Link)            | - # - - - -        | - # - - - -              |
| Fence (Wood)                  | - [ ] - - - -      | - [ ] - - - -            |
| Tree Line                     | - [ ] - - - -      | - [ ] - - - -            |
| Bush                          | [ Bush Symbol ]    | [ Bush Symbol ]          |
| Coniferous Tree               | [ Tree Symbol ]    | [ Tree Symbol ]          |
| Deciduous Tree                | [ Tree Symbol ]    | [ Tree Symbol ]          |
| Bush To Be Removed            | [ Bush Symbol ]    | [ Bush Symbol ]          |
| Coniferous Tree To Be Removed | [ Tree Symbol ]    | [ Tree Symbol ]          |
| Deciduous Tree To Be Removed  | [ Tree Symbol ]    | [ Tree Symbol ]          |
| Storm Sewer Manhole           | [ Manhole Symbol ] | [ Manhole Symbol ] S-100 |
| Storm Sewer Intake            | [ Intake Symbol ]  | [ Intake Symbol ] S-100  |
| Storm Pipe Designation        | [ Pipe Symbol ]    | [ Pipe Symbol ] P-3      |
| Area Intake                   | [ Intake Symbol ]  | [ Intake Symbol ]        |
| Sanitary Manhole              | [ Manhole Symbol ] | [ Manhole Symbol ]       |
| Fire Hydrant                  | [ Hydrant Symbol ] | [ Hydrant Symbol ]       |
| Water Valve                   | [ Valve Symbol ]   | [ Valve Symbol ]         |
| Guy Anchor                    | [ Anchor Symbol ]  | [ Anchor Symbol ]        |
| Power Pole with Light         | [ Pole Symbol ]    | [ Pole Symbol ]          |
| Power Pole                    | [ Pole Symbol ]    | [ Pole Symbol ]          |
| Light Pole                    | [ Pole Symbol ]    | [ Pole Symbol ]          |
| Traffic Signal                | [ Signal Symbol ]  | [ Signal Symbol ]        |
| Water Main                    | - W - - - -        | - W - - - -              |
| Storm Sewer                   | - ST - - - -       | - ST - - - -             |
| Sanitary Sewer                | - SAN. - - - -     | - SAN. - - - -           |
| Gas - Black Hills Energy      | - G - - - -        | - G - - - -              |
| UG Electric - Alliant         | - E2 - - - -       | - E2 - - - -             |
| OH Electric                   | - OE - - - -       | - OE - - - -             |
| UG Fiber Optic - Lumen        | - F02 - - - -      | - F02 - - - -            |
| UG Fiber Optic - Windstream   | - F05 - - - -      | - F05 - - - -            |
| U.A.C.                        | USE AS CONSTRUCTED |                          |
| N.I.C.                        | NOT IN CONTRACT    |                          |

**KM1**  
In order to avoid any unnecessary surface breaks or premature spalling, the contractor is cautioned to exercise extreme care when performing any of the necessary saw cutting operations for the proposed pavement removal.

**KM2**  
The contractor shall protect all storm sewer inlets and utility accesses from siltation and debris during construction.

**KM3**  
Contractor shall notify City of Dyersville 7 days prior to start of construction.

**KM4**  
Before beginning construction, the contractor shall excavate all utilities that may be in conflict with the proposed construction. The contractor shall verify elevations of the utilities and notify the Project Engineer of conflicts. The cost of staging construction for utility installation, whether utility is shown or not shown on the plans, providing temporary supports for all utilities with assistance from affected utility company, and all costs involved in coordinating with utilities shall be included in and considered incidental to the contract bid price; and no additional compensation shall be allowed.

The contractor shall exercise all due caution and use construction methods and equipment to complete the work without damaging utilities. Any damage to such facilities due to the contractor's carelessness shall be corrected at the contractor's expense. The exact location and elevation of all utilities shall be determined by the contractor at the time of construction. It shall be the duty of the contractor to ascertain whether any additional facilities other than those shown on the plan may be present during the bidding or construction phase. Cost incidental to the project. The contractor shall exercise all due caution when working in the vicinity of pipelines carrying combustible or toxic materials which are present on this project. Pipeline locations shown on the plans represent the best information available at the time. The utilities listed below are anticipated on this project. Actual work and schedule may vary significantly.

|             |                |                |
|-------------|----------------|----------------|
| Electric    | Cable          | Traffic        |
| Gas         | Communications | Telephone      |
| Storm Sewer | Water          | Sanitary Sewer |

**KM5**  
All work involved in this project shall be constructed on city owned right-of-way or easements obtained by the city. Contractor shall restrict its construction operations to within the designated right-of-way or construction easements. No materials, excavated material, or equipment shall be stored on, parked on, deposited on, or driven over any private property unless written authorization is obtained from the property owner by the contractor. A copy of such written agreement shall be made available to the city and the engineer.

**KM6**  
Street closing: The contractor shall give 7 days notice (excluding weekends) to the City of Dyersville and must receive approval before closing any street to traffic.

**KM7**  
The contractor shall hand deliver a notice of street closing to each abutting property 7 days before closing a street. The notices will be supplied by the engineer.

**KM8**  
The contractor shall prepare a detailed schedule of work which shall be submitted at the preconstruction conference. The schedule shall show anticipated equipment and material deliveries and completion of major tasks in the project. Schedule shall indicate approximate start dates, duration and restrictions identified in the Construction Staging Notes.

**KM9**  
The contractor, in cooperation with utility companies, shall verify abandoned utility lines including gas, water mains, telephone conduits, services, etc. and upon verification shall remove and dispose of the utilities within the work zone which shall be considered included in the unit prices for pipes and structures.

**KM10**  
Contractor shall secure excavations of 30" or greater depth with safety fence or other means acceptable to the engineer during non work hours, or periods of inactivity.

**KM11**  
The contractor's staging and material storage area shall be coordinated with the owner and engineer prior to construction. If this area is not otherwise included within the limits of project restoration, the contractor shall shape, fertilize and seed this area to restore it to its original condition, as determined suitable by the engineer. No additional payment will be made for this work.

**KM12**  
The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins, or silt dikes.

## UTILITY CONTACTS

|   |   |
|---|---|
| <b>ALLIANT ENERGY</b><br>LOCATE_IPL@ALLIANTENERGY.COM<br>800-255-4268                     | <b>IMON COMMUNICATIONS, LLC</b><br>IMONENGINEERING@IMON.NET<br>319-200-7804                               |
| <b>MEDIACOM</b><br>CHRIS MINARD<br>CMINARD@MEDIACOMCC.COM<br>815-597-5103                 | <b>BLACK HILLS ENERGY MANCHESTER</b><br>JUSTIN LEHMAN<br>JUSTIN.LEHMAN@BLACKHILLSCORP.COM<br>563-239-0012 |
| <b>WINDSTREAM ENTERPRISE</b><br>WCI.CLEC.LOCATE@WINDSTREAM.COM<br>800-941-3430            | <b>ICN</b><br>SHANNON MARLOW<br>SHANNON.MARLOW@IOWA.GOV<br>515-725-7446                                   |
| <b>CENTURYLINK</b><br>SADIE HULL<br>SADIE.HULL@LUMEN.COM<br>918-547-0147                  | <b>WINDSTREAM COMMUNICATIONS</b><br>LOCATE.DESK@WINDSTREAM.COM<br>800-289-1901                            |
| <b>CITY OF DYERSVILLE</b><br>TERRY RECKER<br>TRECKER@CITYOFDYERSVILLE.COM<br>563-875-7724 |   |

## ENGINEER/OWNER

|   |   |
|---|---|
| <b>ENGINEER/SURVEYOR:</b><br><br>KIRKHAM MICHAEL & ASSOCIATES<br>CONTACT: ANTHONY BARDGETT, P.E.<br>4515 N RIVER BLVD NE, SUITE 200<br>CEDAR RAPIDS, IA 52411 | <b>OWNER:</b><br><br>CITY OF DYERSVILLE<br>CONTACT: MICK MICHEL<br>340 1ST AVENUE E<br>DYERSVILLE, IOWA 52040<br>563-875-7724 |
|---|---|

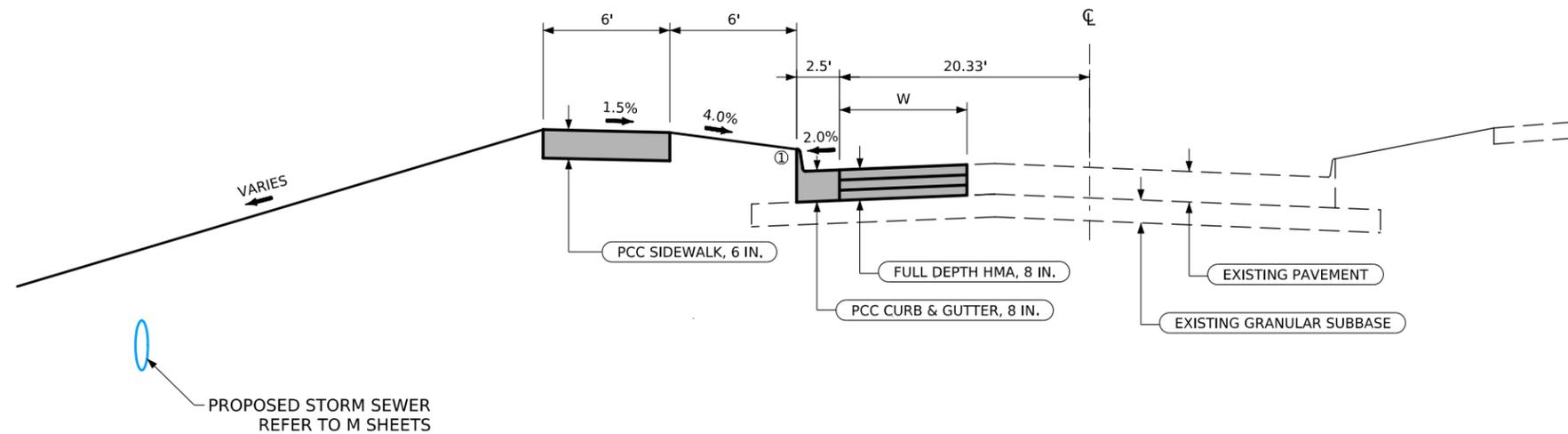
## TECHNICAL SPECIFICATIONS

THE STATEWIDE URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2025 EDITION, REFERRED TO IN THIS PLAN AS SUDAS, SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT, EXCEPT AS MODIFIED IN THIS PLAN.

THESE SPECIFICATIONS MAY BE OBTAINED BY CONTACTING:

SUDAS PROGRAM  
 2711 LOOP DRIVE, SUITE 4700  
 AMES, IOWA 50010-8632  
 PHONE: 515-294-2869

ON LINE AT  
 www.iowasudas.org

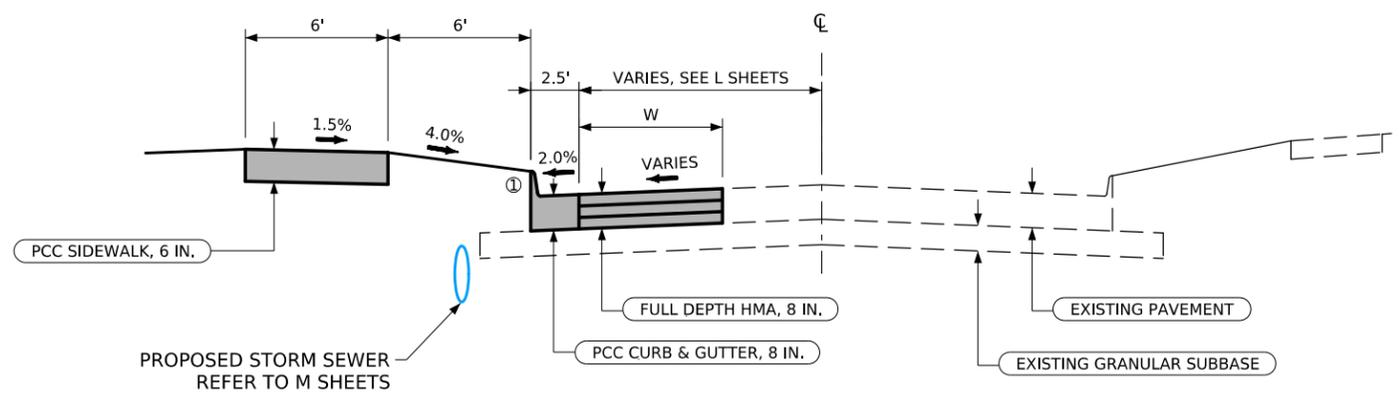


Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as intersections or super elevated curves.

① 6" Standard Curb, Refer to SUDAS Figure 7010.102

| Location            |                     |        |
|---------------------|---------------------|--------|
| Road Identification | Station to Station  | W      |
| US52                | 11+34.21 - 11+62.55 | 10.37' |
| US52                | 11+62.55 - 14+20.33 | 0'     |

**TYPICAL SECTION**



| Location            |                    |        |
|---------------------|--------------------|--------|
| Road Identification | Station to Station | W      |
| 13TH AVE SE         | 1+66.41 - 1+95.25  | 10.22' |
| 13TH AVE SE         | 1+95.25 - 3+93.41  | 3'     |
| 13TH AVE SE         | 3+93.41 - 4+26.97  | 7'     |

**TYPICAL SECTION**

| ESTIMATED PROJECT QUANTITIES                                 |           |  |      |       |          |
|--|-----------|--|------|-------|----------|
| ITEM NO.   | ITEM CODE | ITEM   | UNIT | TOTAL | AS-BUILT |
| <b>DIVISION 2 - EARTHWORK</b>                                |           |  |      |       |          |
| 2.1  | 2010-D-1  | TOPSOIL, ON SITE   | CY   | 527   |          |
| 2.2  | 2010-E    | EXCAVATION, CLASS 10 IMPORT                                  | CY   | 2053  |          |
| 2.3  | 2010-G    | SUBGRADE PREPARATION   | SY   | 1046  |          |
| 2.4  | 2010-J    | SUBBASE, MODIFIED, 6 IN.                                     | SY   | 421   |          |
| 2.5  | 2010-J    | SUBBASE, MODIFIED, 4 IN.                                     | SY   | 436   |          |
| 2.6  | 2010-L-1  | FILLING AND PLUGGING OF KNOWN PIPE CULVERT, 24 IN.           | LF   | 64    |          |
| <b>DIVISION 4 - SEWERS AND DRAINS</b>                        |           |  |      |       |          |
| 4.1  | 4020-A-1  | STORM SEWER, TRENCHED, RCP, 15 IN.                           | LF   | 731   |          |
| 4.2  | 4020-D    | REMOVAL OF STORM SEWER, CMP, 15 IN                           | LF   | 52    |          |
| 4.3  | 4030-B    | PIPE APRON, CONCRETE, 15 IN.                                 | EA   | 1     |          |
| <b>DIVISION 5 - WATER MAIN AND APPURTENANCES</b>             |           |  |      |       |          |
| 5.1  | 5020-C    | REMOVE AND REINSTALL HYDRANT ASSEMBLY                        | LS   | 1     |          |
| <b>DIVISION 6 - STRUCTURES FOR SANITARY AND STORM SEWERS</b> |           |  |      |       |          |
| 6.1  | 6010-A    | MANHOLE, SW-401, 48 IN.                                      | EA   | 1     |          |
| 6.2  | 6010-A    | MANHOLE, SW-401, 60 IN.                                      | EA   | 2     |          |
| 6.3  | 6010-B    | INTAKE, SW-505   | EA   | 2     |          |
| 6.4  | 6010-B    | INTAKE, SW-506   | EA   | 1     |          |
| 6.5  | 6010-H-2  | REMOVE INTAKE  | EA   | 1     |          |
| <b>DIVISION 7 - STREETS AND RELATED WORK</b>                 |           |  |      |       |          |
| 7.1  | 7010-A    | CURB AND GUTTER, 2.5 FT., 8 IN.                              | LF   | 628   |          |
| 7.2  | 7030-A-1  | REMOVAL OF SIDEWALK  | SY   | 196   |          |
| 7.3  | 7030-E    | SIDEWALK, PCC, 6 IN.   | SY   | 436   |          |
| 7.4  | 7030-G    | DETECTABLE WARNINGS  | SF   | 56    |          |
| 7.5  | 7030-H-1  | DRIVEWAY, PAVED, PCC, 7 IN.                                  | SY   | 421   |          |
| 7.6  | 7040-A    | FULL DEPTH PATCHES, HMA, 8 IN.                               | SY   | 191   |          |
| 7.7  | 7040-H    | PAVEMENT REMOVAL   | SY   | 835   |          |
| <b>DIVISION 8 - TRAFFIC CONTROL</b>                          |           |  |      |       |          |
| 8.1  | 8010-A    | TRAFFIC SIGNALIZATION  | LS   | 1     |          |
| 8.2  | 8020-B    | PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE                | STA  | 33.49 |          |
| 8.3  | 8020-G    | PAINTED SYMBOLS AND LEGENDS, WATERBORNE/SOLVENT              | EA   | 30    |          |
| 8.4  | 8020-K    | PAVEMENT MARKINGS REMOVED                                    | STA  | 23.48 |          |
| 8.5  | 8020-L    | SYMBOLS AND LEGENDS REMOVED                                  | EA   | 9     |          |
| 8.6  | 8030-A    | TEMPORARY TRAFFIC CONTROL                                    | LS   | 1     |          |
| 8.7  | 8040-D    | PERFORATED SQUARE STEEL TUBE POSTS                           | EA   | 1     |          |
| 8.8  | 8040-I    | REMOVE AND REINSTALL TRAFFIC SIGNS                           | EA   | 1     |          |
| 8.9  | 8040-J    | REMOVE AND SALVAGE TRAFFIC SIGN ASSEMBLY                     | EA   | 2     |          |
| <b>DIVISION 9 - SITE WORK AND LANDSCAPING</b>                |           |  |      |       |          |
| 9.1  | 9010-B    | HYDRAULIC SEEDING, SEEDING, FERTILIZING AND MULCHING, TYPE 1 | AC   | 0.49  |          |
| 9.2  | 9040-D-1  | FILTER SOCK, 12 IN.  | LF   | 1579  |          |
| 9.3  | 9040-D-2  | FILTER SOCK REMOVAL  | LF   | 1579  |          |
| 9.4  | 9040-E    | TEMPORARY RECP, TYPE 2.B                                     | SY   | 1515  |          |
| 9.5  | 9040-T-1  | INLET PROTECTION DEVICE, DROP IN                             | EA   | 9     |          |
| 9.6  | 9040-T-2  | INLET PROTECTION DEVICE, MAINTENANCE                         | EA   | 9     |          |
| <b>DIVISION 11 - MISCELLANEOUS</b>                           |           |  |      |       |          |
| 11.1   | 11,010-A  | CONSTRUCTION SURVEY  | LS   | 1     |          |

| ESTIMATE REFERENCE INFORMATION |           |   |
|--------------------------------|-----------|---|
| ITEM NO.                       | ITEM CODE | ITEM  |
| 2.1                            | 2010-D-1  | <b>TOPSOIL, ON SITE</b><br>QUANTITY OF TOPSOIL REQUIRED HAS BEEN CALCULATED BASED ON AN AVERAGE 8 IN. THICKNESS RESPREAD OVER ALL AREAS WITHIN THE GRADING LIMITS. SUFFICIENT FIELD MEASUREMENTS WILL BE MADE TO ENSURE REASONABLE CONFORMITY WITH SPECIFIED DEPTH OF COVERAGE. CROSS-SECTIONS SHOW FINISHED GROUNDLINE. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED. ALL TOPSOIL SHALL REMAIN ON SITE.                           |
| 2.2                            | 2010-E    | <b>EXCAVATION, CLASS 10 IMPORT</b><br>COMPACTION TESTING SERVICES WILL BE CONDUCTED BY A REPRESENTATIVE OF THE CITY OF DYERSVILLE. NO FILL SHALL BE PLACED UNTIL THE CONTRACTOR HAS NOTIFIED THE CITY OR THE TESTING AGENCY TO SCHEDULE COMPACTION TESTING.   |
| 2.3                            | 2010-G    | <b>SUBGRADE PREPARATION</b><br>REFER TO TYPICAL SECTIONS ON B SHEETS.   |
| 2.4                            | 2010-J    | <b>SUBBASE, MODIFIED, 6 IN.</b><br>6" MODIFIED SUBBASE SHALL BE PLACED UNDER ALL 7" PCC DRIVEWAYS. REFER TO D SHEETS FOR LOCATIONS.   |
| 2.5                            | 2010-J    | <b>SUBBASE, MODIFIED, 4 IN.</b><br>4" MODIFIED SUBBASE SHALL BE PLACED UNDER ALL PCC SIDEWALKS. REFER TO D SHEETS FOR LOCATIONS.  |
| 2.6                            | 2010-L-1  | <b>FILLING AND PLUGGING OF KNOWN PIPE CULVERT, 24 IN.</b><br>REFER TO R SHEETS FOR LOCATIONS.   |
| 4.1                            | 4020-A-1  | <b>STORM SEWER, TRENCHED, RCP, 15 IN.</b><br>REFER TO M SHEETS FOR LOCATIONS. CLEANING, INSPECTING, AND TESTING OF STORM SEWER IS INCIDENTAL TO THIS ITEM. REFER TO SUDAS SECTION 4020. TRENCH BACKFILL COMPACTION TESTING WILL BE CONDUCTED BY A REPRESENTATIVE OF THE CITY OF DYERSVILLE. TRENCHES SHALL NOT BE BACKFILLED UNTIL THE CONTRACTOR HAS NOTIFIED THE CITY OR THE TESTING AGENCY TO SCHEDULE COMPACTION TESTING. |
| 4.2                            | 4020-D    | <b>REMOVAL OF STORM SEWER, CMP, 15 IN</b><br>REFER TO R SHEETS FOR REMOVALS. REMOVED MATERIAL SHALL BE DISPOSED OF OFF-SITE.  |
| 4.3                            | 4030-B    | <b>PIPE APRON, CONCRETE, 15 IN.</b><br>REFER TO M SHEETS FOR LOCATIONS AND SUDAS FIGURES 4030.221 AND 4030.222 FOR DETAILS. THIS ITEM INCLUDES THE CONSTRUCTION OF APRON FOOTING AND GALVANIZED STEEL APRON GUARDS. THE LAST THREE PIPE JOINTS PRIOR TO END OF APRON SHALL BE TIED.   |
| 5.1                            | 5020-C    | <b>REMOVE AND REINSTALL HYDRANT ASSEMBLY</b><br>REFER TO M SHEETS FOR LOCATION AND SUDAS FIGURE 5020.201. SEE NOTE 1 ON SHEET M.01 FOR ADDITIONAL REQUIREMENTS.   |
| 6.1                            | 6010-A    | <b>MANHOLE, SW-401, 48 IN.</b><br>REFER TO M SHEETS FOR LOCATIONS AND TABULATIONS. REFER TO SUDAS FIGURE 6010.401   |
| 6.2                            | 6010-A    | <b>MANHOLE, SW-401, 60 IN.</b><br>REFER TO M SHEETS FOR LOCATIONS AND TABULATIONS. REFER TO SUDAS FIGURE 6010.401   |
| 6.3                            | 6010-B    | <b>INTAKE, SW-505</b><br>REFER TO M SHEETS FOR LOCATIONS AND TABULATIONS. REFER TO SUDAS FIGURE 6010.505.   |
| 6.4                            | 6010-B    | <b>INTAKE, SW-506</b><br>REFER TO M SHEETS FOR LOCATIONS AND TABULATIONS. REFER TO SUDAS FIGURE 6010.506.   |
| 6.5                            | 6010-H-2  | <b>REMOVE INTAKE</b><br>REFER TO R SHEETS FOR LOCATIONS AND DETAILS.  |
| 7.1                            | 7010-A    | <b>CURB AND GUTTER, 2.5 FT., 8 IN.</b>  |
| 7.2                            | 7030-A-1  | <b>REMOVAL OF SIDEWALK</b><br>REFER TO R SHEETS FOR DETAILS. CURB GRINDING REQUIRED FOR INSTALLATION OF CURB RAMP IS INCIDENTAL TO THIS ITEM.   |
| 7.3                            | 7030-E    | <b>SIDEWALK, PCC, 6 IN.</b><br>REFER TO S SHEETS FOR ADDITIONAL DETAILS. ALL SIDEWALK SHALL BE CONSTRUCTED TO COMPLY WITH ADA AND PROWAG REQUIREMENTS. REFER TO SUDAS FIGURE 7030.205 FOR CURB RAMP DETAILS. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND RECONSTRUCTION OF ANY SIDEWALK NOT IN COMPLIANCE WITH ACCESSIBILITY SPECIFICATIONS.  |

| ESTIMATE REFERENCE INFORMATION |           |  |
|--------------------------------|-----------|--|
| ITEM NO.                       | ITEM CODE | ITEM   |
| 7.4                            | 7030-G    | <b>DETECTABLE WARNINGS</b><br>REFER TO S SHEETS FOR LOCATIONS. REFER TO SUDAS FIGURE 7030.210 FOR PLACEMENT DETAILS. DETECTABLE WARNINGS SHALL CONSIST OF PRE-MANUFACTURED VITRIFIED POLYMER COMPOSITE (VPC) CAST-IN-PLACE TACTILE PANELS. PRE-MANUFACTURED DETECTABLE WARNING PANEL APPROVED PRODUCT: ARMOR-TILE, MANUFACTURED BY ENGINEERED PLASTICS INC., ADA SOLUTIONS, OR APPROVED EQUAL. PANEL COLOR SHALL BE SAFETY RED (FEDERAL COLOR #31350). PRE-MANUFACTURED DETECTABLE WARNINGS SHALL BE INSTALLED AT ALL PUBLIC STREET CROSSINGS AND OTHER LOCATIONS SHOWN IN PLANS. REFER TO S SHEETS. |
| 7.5                            | 7030-H-1  | <b>DRIVEWAY, PAVED, PCC, 7 IN.</b><br>USE A C MIX IN ACCORDANCE WITH PROPORTION TABLE 1 OF IADOT IM 529.   |
| 7.6                            | 7040-A    | <b>FULL DEPTH PATCHES, HMA, 8 IN.</b><br>REFER TO SUDAS FIGURE 7040.103 FOR DETAILS. ASPHALT MIXTURE SHALL BE AN HT MIXTURE COMPLYING WITH SUDAS SECTION 7020 AND THE ASPHALT BINDER SHALL BE PG 58-28H.   |
| 7.7                            | 7040-H    | <b>PAVEMENT REMOVAL</b><br>REFER TO R SHEETS FOR REMOVAL LIMITS. PROPERLY DISPOSE OF ALL PAVEMENT OFF-SITE. FULL DEPTH SAW CUTS ARE CONSIDERED INCIDENTAL TO THIS ITEM. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ADDITIONAL FULL DEPTH SAWCUTS TO EDGES OF CONCRETE THAT HAVE BEEN DAMAGED PRIOR TO PLACEMENT OF THE PROPOSED PAVEMENT. PAVEMENT MATERIAL AND DEPTH OF EXISTING PAVEMENT MAY VARY.   |
| 8.1                            | 8010-A    | <b>TRAFFIC SIGNALIZATION</b><br>REFER TO N SHEETS FOR DETAILS.   |
| 8.2                            | 8020-B    | <b>PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE</b>   |
| 8.3                            | 8020-G    | <b>PAINTED SYMBOLS AND LEGENDS, WATERBORNE/SOLVENT</b>   |
| 8.4                            | 8020-K    | <b>PAVEMENT MARKINGS REMOVED</b>   |
| 8.5                            | 8020-L    | <b>SYMBOLS AND LEGENDS REMOVED</b>   |
| 8.6                            | 8030-A    | <b>TEMPORARY TRAFFIC CONTROL</b><br>THE CONTRACTOR SHALL FURNISH ALL TRAFFIC CONTROL DEVICES FOR THE DURATION OF CONSTRUCTION. TRAFFIC CONTROL SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CONTROLS SHALL BE PROPERLY LOCATED, MAINTAINED, AND KEPT CLEAN AND LEGIBLE BY THE CONTRACTOR AT ALL TIMES. REFER TO THE J SHEETS FOR PROPOSED TRAFFIC CONTROL PLAN. THIS ITEM COVERS ALL TRAFFIC CONTROL WORK SHOWN ON THE J SHEETS. ALL LANE OR ROAD CLOSURES NEED TO BE PERMITTED THROUGH THE IOWA DEPARTMENT OF TRANSPORTATION.   |
| 8.7                            | 8040-D    | <b>PERFORATED SQUARE STEEL TUBE POSTS</b><br>REFER TO D SHEETS FOR LOCATION.   |
| 8.8                            | 8040-I    | <b>REMOVE AND REINSTALL TRAFFIC SIGNS</b><br>REFER TO R.03 FOR SPEED LIMIT SIGN LOCATION. REFER TO D SHEETS FOR NEW LOCATION.  |
| 8.9                            | 8040-J    | <b>REMOVE AND SALVAGE TRAFFIC SIGN ASSEMBLY</b><br>REFER TO R.03 FOR SIGN LOCATION. RETURN SIGN TO THE CITY OF DYERSVILLE.   |
| 9.1                            | 9010-B    | <b>HYDRAULIC SEEDING, SEEDING, FERTILIZING AND MULCHING, TYPE 1</b><br>REFER TO EC SHEETS.   |
| 9.2                            | 9040-D-1  | <b>FILTER SOCK, 12 IN.</b><br>REFER TO SUDAS FIGURE 9040.102 FOR DETAILS. AN ADDITIONAL 25% HAS BEEN ADDED TO THE QUANTITY TO ACCOUNT FOR CHANGES TO THE EROSION CONTROL PLAN AND REPLACEMENT OF DAMAGED FILTER SOCKS.   |
| 9.3                            | 9040-D-2  | <b>FILTER SOCK REMOVAL</b><br>REMOVE ALL INSTALLED DEVICES AFTER FINAL STABILIZATION. MEASUREMENT SHALL BE PER LINEAR FOOT OF CONTROL DEVICE REMOVED AND PAYMENT SHALL BE UNIT PRICE PER FOOT. ALL DEVICES SHALL BE DISPOSED OF OFF-SITE.  |
| 9.4                            | 9040-E    | <b>TEMPORARY RECP, TYPE 2.B</b><br>REFER TO EC SHEETS FOR LOCATIONS.   |

| ESTIMATE REFERENCE INFORMATION |           |  |
|--------------------------------|-----------|--|
| ITEM NO.                       | ITEM CODE | ITEM   |
| 9.5                            | 9040-T-1  | <b>INLET PROTECTION DEVICE, DROP IN</b><br>REFER TO EC SHEETS FOR LOCATIONS. |
| 9.6                            | 9040-T-2  | <b>INLET PROTECTION DEVICE, MAINTENANCE</b>                                  |
| 11.1                           | 11,010-A  | <b>CONSTRUCTION SURVEY</b>   |

| PAVEMENT MARKING LINE TYPES - REMOVALS |             |              |            |      |                         |            |                     |            |                     |            |                     |              |                       |            |                     |            |                     |                       |
|--|-------------|--------------|------------|------|-------------------------|------------|---------------------|------------|---------------------|------------|---------------------|--------------|-----------------------|------------|---------------------|------------|---------------------|-----------------------|
| LINE NO.                               | ROAD ID     | STATION FROM | STATION TO | LANE | MARKING TYPE            | CLW6 (STA) | CLW6 FACTORED (STA) | DCY4 (STA) | DCY4 FACTORED (STA) | ELW4 (STA) | ELW4 FACTORED (STA) | NPY4** (STA) | NPY4** FACTORED (STA) | SLW2 (STA) | SLW2 FACTORED (STA) | SLW4 (STA) | SLW4 FACTORED (STA) | REMARKS               |
| 1                                      | US 52       | 1138.68      | 1432.27    | SB   | Removal of Paint        |            |                     |            |                     | 2.94       | 1.97                |              |                       |            |                     |            |                     |                       |
| 2                                      | US 52       | 1498.39      | 1951.45    | SB   | Removal of Paint        |            |                     |            |                     |            |                     |              |                       |            |                     | 4.53       | 3.04                |                       |
| 3                                      | US 52       | 1135.99      | 1438.61    | SB   | Removal of Paint        |            |                     |            |                     |            |                     | 3.03         | 2.55                  |            |                     |            |                     |                       |
| 4                                      | US 52       | 1516.12      | 1960.35    | SB   | Removal of Paint        |            |                     |            |                     |            |                     | 4.44         | 3.73                  |            |                     |            |                     |                       |
| 5                                      | US 52       | 1131.46      | 1430.05    | NB   | Removal of Paint        |            |                     |            |                     |            |                     | 2.99         | 2.51                  |            |                     |            |                     |                       |
| 6                                      | US 52       | 1516.69      | 1951.45    | NB   | Removal of Paint        |            |                     |            |                     |            |                     | 4.35         | 3.65                  |            |                     |            |                     |                       |
| 7                                      | US 52       | 1292.94      | 1445.6     | NB   | Removal of Paint        |            |                     |            |                     | 1.53       | 1.03                |              |                       |            |                     |            |                     |                       |
| 8                                      | 12TH AVE SE | 1431.72      | 1508.55    | Both | Removal of Paint        | 0.77       | 1.54                |            |                     |            |                     |              |                       |            |                     |            |                     |                       |
| 9                                      | 12TH AVE SE | 1475.35      | 1477.43    | WB   | Removal of Paint        |            |                     | 1.32       | 1.77                |            |                     |              |                       |            |                     |            |                     | 42.28 RT TO 174.25 RT |
| 10                                     | 12TH AVE SE | 1486.98      | 1486.99    | WB   | Removal of Paint        |            |                     |            |                     |            |                     |              |                       |            |                     | 1.09       | 0.73                | 41.96 RT TO 150.16 RT |
| 11                                     | 12TH AVE SE | 1476.15      | 1499.94    | WB   | Removal of Paint        |            |                     |            |                     |            |                     |              |                       | 0.24       | 0.96                |            |                     |                       |
|  |             |              |            |      | <b>Total</b>            |            | 1.54                |            | 1.77                |            | 3                   |              | 12.44                 |            | 0.96                |            | 3.77                |                       |
|  |             |              |            |      | <b>Factored Total =</b> |            | <b>23.48</b>        |            |                     |            |                     |              |                       |            |                     |            |                     |                       |

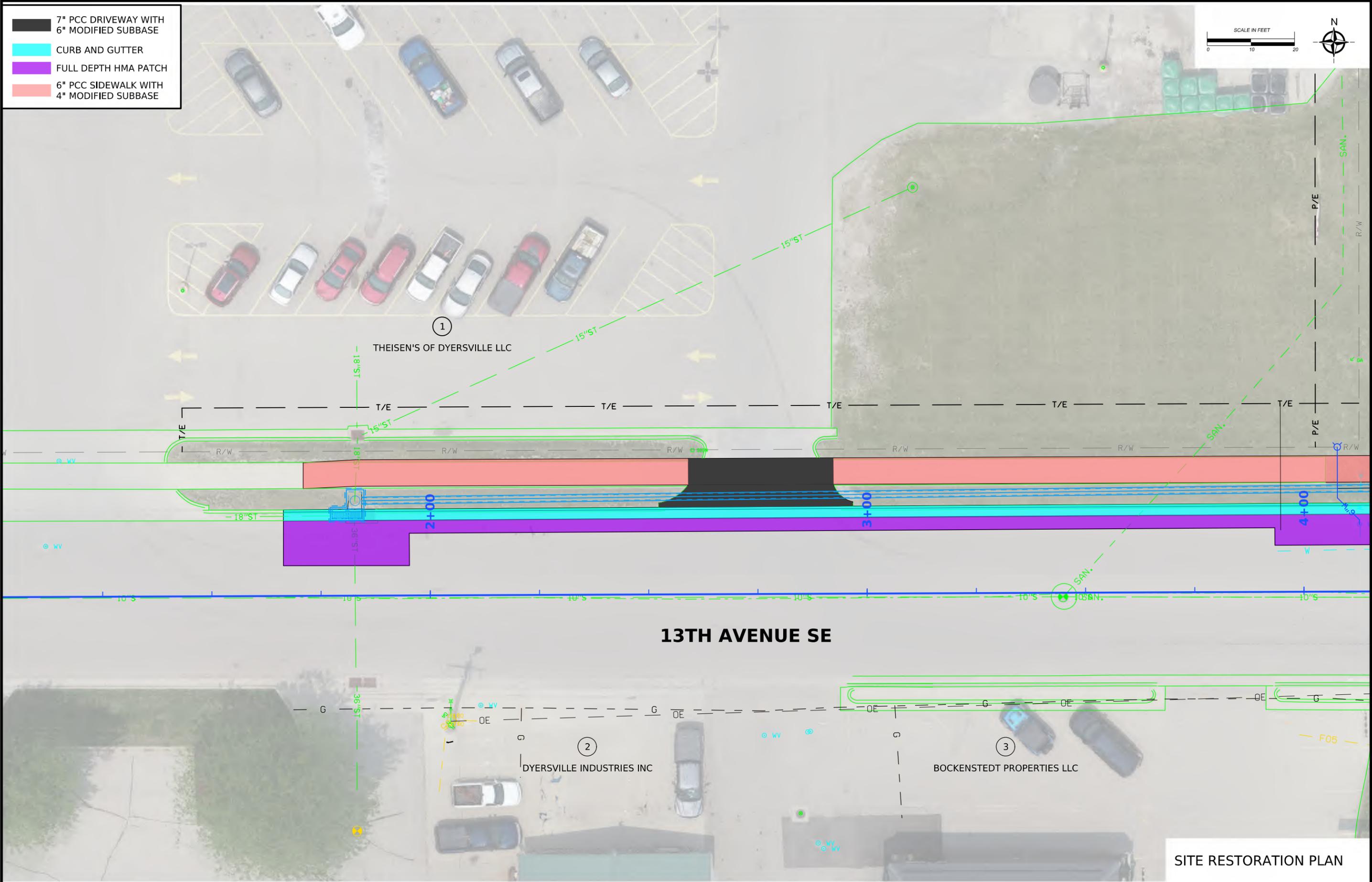
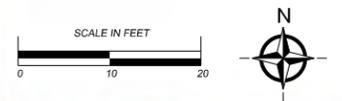
| PAVEMENT MARKING LINE TYPES |             |              |            |      |                          |            |                     |            |                     |            |                     |            |                     |            |                     |                       |
|-----------------------------|-------------|--------------|------------|------|--------------------------|------------|---------------------|------------|---------------------|------------|---------------------|------------|---------------------|------------|---------------------|-----------------------|
| LINE NO.                    | ROAD ID     | STATION FROM | STATION TO | LANE | MARKING TYPE             | CLW6 (STA) | CLW6 FACTORED (STA) | DCY6 (STA) | DCY6 FACTORED (STA) | NPY6 (STA) | NPY6 FACTORED (STA) | SLW2 (STA) | SLW2 FACTORED (STA) | SLW6 (STA) | SLW6 FACTORED (STA) | REMARKS               |
| 12                          | US 52       | 1150.54      | 1254.58    | SB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     |            |                     | 1.04       | 1.04                |                       |
| 13                          | US 52       | 1150.6       | 1420.35    | Both | Waterborne/Solvent Paint |            |                     | 2.72       | 5.44                |            |                     |            |                     |            |                     |                       |
| 14                          | US 52       | 1320.35      | 1413.36    | NB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     |            |                     | 0.93       | 0.93                |                       |
| 15                          | US 52       | 1300         | 1413.43    | NB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     |            |                     | 1.13       | 1.13                |                       |
| 16                          | US 52       | 1414.35      | 1414.39    | NB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     | 0.4        | 1.6                 |            |                     | 5.88LT TO 35.60RT     |
| 17                          | US 52       | 1426.33      | 1426.4     | Both | Waterborne/Solvent Paint | 0.65       | 1.3                 |            |                     |            |                     |            |                     |            |                     | 23.40 LT TO 40.82 RT  |
| 18                          | THEISENS    | 1443.87      | 1472.2     | EB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     | 0.28       | 1.12                |            |                     |                       |
| 19                          | THEISENS    | 1439.28      | 1459.52    | EB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     |            |                     | 0.59       | 0.59                | 85.47 LT TO 32.83 LT  |
| 20                          | THEISENS    | 1452.16      | 1472.2     | Both | Waterborne/Solvent Paint |            |                     | 0.62       | 1.24                |            |                     |            |                     |            |                     | 89.43 LT TO 31.85 LT  |
| 21                          | 12TH AVE SE | 1474.19      | 1477.43    | Both | Waterborne/Solvent Paint |            |                     | 1.24       | 2.48                |            |                     |            |                     |            |                     | 50.74 RT TO 174.25 RT |
| 22                          | 12TH AVE SE | 1486.68      | 1486.99    | WB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     |            |                     | 0.93       | 0.93                | 57.76 RT TO 150.16 RT |
| 23                          | 12TH AVE SE | 1475.01      | 1500.6     | WB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     | 0.26       | 1.04                |            |                     |                       |
| 24                          | 12TH AVE SE | 1432.16      | 1507.93    | Both | Waterborne/Solvent Paint | 0.76       | 1.52                |            |                     |            |                     |            |                     |            |                     |                       |
| 25                          | US 52       | 1515.17      | 1514.94    | Both | Waterborne/Solvent Paint | 0.58       | 1.16                |            |                     |            |                     |            |                     |            |                     | 22.35 LT TO 35.38 RT  |
| 26                          | US 52       | 1526.15      | 1526.05    | SB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     | 0.25       | 1                   |            |                     | 19.50 LT TO 5.67 RT   |
| 27                          | US 52       | 1527.1       | 1639.68    | SB   | Waterborne/Solvent Paint |            |                     |            |                     |            |                     |            |                     | 1.13       | 1.13                |                       |
| 28                          | US 52       | 1520.05      | 1699.4     | Both | Waterborne/Solvent Paint |            |                     | 1.83       | 3.66                |            |                     |            |                     |            |                     |                       |
| 29                          | US 52       | 1712.97      | 1953.55    | NB   | Waterborne/Solvent Paint |            |                     |            |                     | 2.41       | 3.01                |            |                     |            |                     |                       |
| 30                          | US 52       | 1699.4       | 1953.55    | SB   | Waterborne/Solvent Paint |            |                     |            |                     | 2.54       | 3.17                |            |                     |            |                     |                       |
|                             |             |              |            |      | <b>Total</b>             |            | 3.98                |            | 12.82               |            | 6.18                |            | 4.76                |            | 5.75                |                       |
|                             |             |              |            |      | <b>Factored Total =</b>  |            | <b>33.49</b>        |            |                     |            |                     |            |                     |            |                     |                       |

**PAVEMENT MARKING SYMBOLS AND LEGENDS**

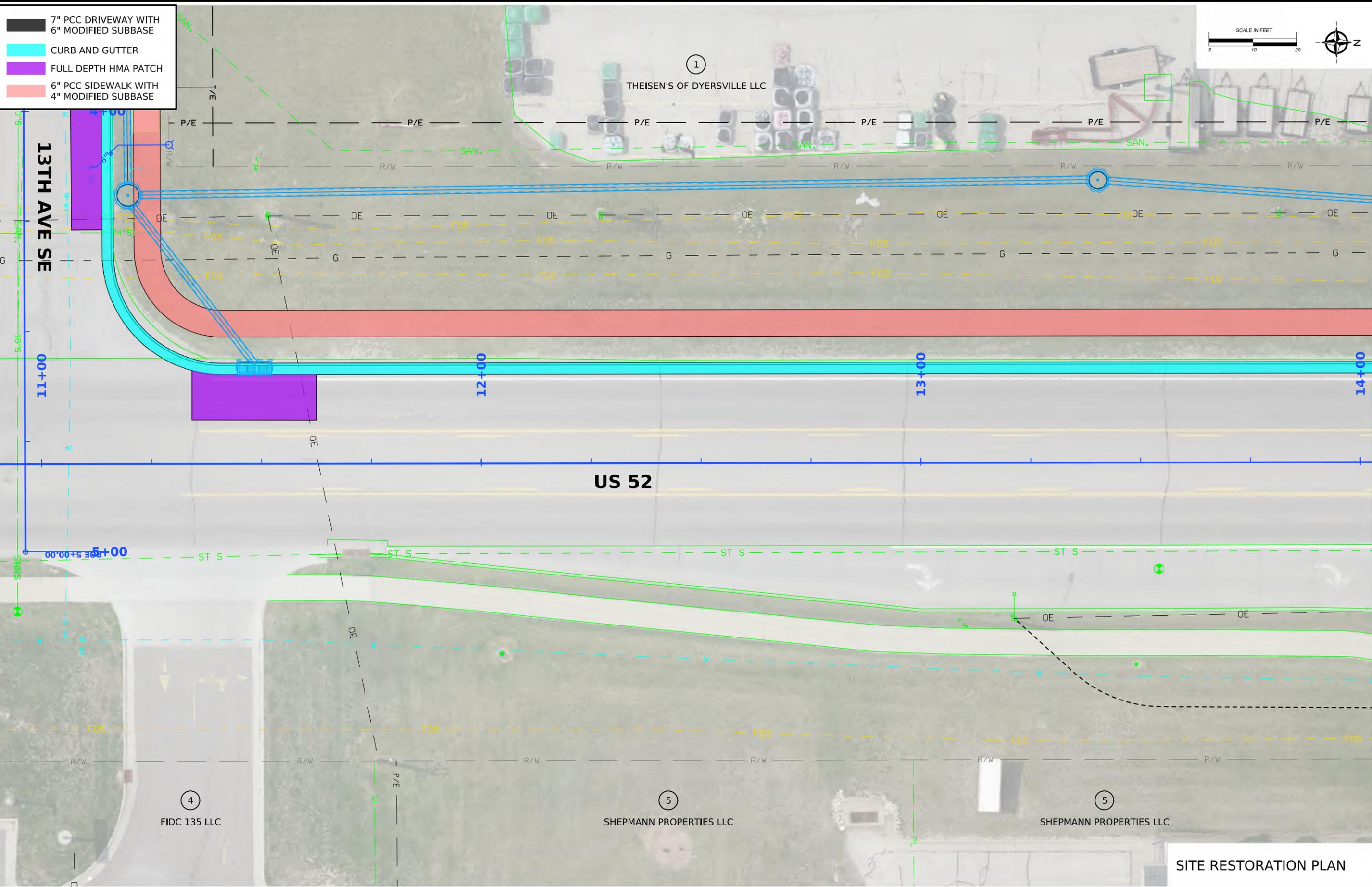
REFER TO IOWA DOT PM-110 FOR PAVEMENT SYMBOL DETAILS

| LINE NO. | ROADWAY IDENTIFICATION | STATION | PAVEMENT SYMBOL | QUANTITY (EA) | REMARKS          |
|----------|------------------------|---------|-----------------|---------------|------------------|
| 1        | US 52                  | 13+01.3 | RTAW            | 1             | REMOVE 26.03 RT  |
| 2        | US 52                  | 13+94.5 | RTAW            | 1             | REMOVE 25.99 RT  |
| 3        | 12TH AVE SE            | 14+83.4 | CSLW            | 1             | REMOVE 83.42 RT  |
| 4        | 12TH AVE SE            | 14+82.9 | CSLW            | 1             | REMOVE 128.00 RT |
| 5        | 12TH AVE SE            | 14+92.0 | RTAW            | 1             | REMOVE 128.23 RT |
| 6        | 12TH AVE SE            | 14+92.6 | ONLW            | 1             | REMOVE 106.31 RT |
| 7        | 12TH AVE SE            | 14+92.9 | ONLW            | 1             | REMOVE 97.39 RT  |
| 8        | 12TH AVE SE            | 14+92.0 | RTAW            | 1             | REMOVE 83.31 RT  |
| 9        | US 52                  | 17+25.2 | LTAW            | 1             | REMOVE 0.82 RT   |
| 10       | US 52                  | 11+67.8 | CSRW            | 1             | NEW 11.53 LT     |
| 11       | US 52                  | 11+67.7 | LTAW            | 1             | NEW 0.00 RT      |
| 12       | US 52                  | 11+79.2 | ONLW            | 1             | NEW 0.42 LT      |
| 13       | US 52                  | 12+44.9 | LTAW            | 1             | NEW 0.00 RT      |
| 14       | US 52                  | 12+57.4 | ONLW            | 1             | NEW 0.25 LT      |
| 15       | US 52                  | 13+14.6 | ONLW            | 1             | NEW 26.93 RT     |
| 16       | US 52                  | 13+25.7 | RTAW            | 1             | NEW 26.81 RT     |
| 17       | US 52                  | 13+15.1 | ONLW            | 1             | NEW 0.30 RT      |
| 18       | US 52                  | 13+26.1 | LTAW            | 1             | NEW 0.52 RT      |
| 19       | US 52                  | 13+25.5 | STAW            | 1             | NEW 12.58 RT     |
| 20       | US 52                  | 13+83.4 | ONLW            | 1             | NEW 0.47 RT      |
| 21       | US 52                  | 13+94.0 | LTAW            | 1             | NEW 0.58 RT      |
| 22       | US 52                  | 13+92.6 | STAW            | 1             | NEW 12.69 RT     |
| 23       | US 52                  | 13+83.3 | ONLW            | 1             | NEW 27.12 RT     |
| 24       | US 52                  | 13+94.8 | RTAW            | 1             | NEW 27.03 RT     |
| 25       | THEISENS               | 14+49.4 | ONLW            | 1             | NEW 53.25 LT     |
| 26       | THEISENS               | 14+52.9 | RTAW            | 1             | NEW 40.83 LT     |
| 27       | THEISENS               | 14+63   | CSLW            | 1             | NEW 44.01 LT     |
| 28       | US 52                  | 15+46.5 | CSRW            | 1             | NEW 12.39 LT     |
| 29       | US 52                  | 15+44.8 | LTAW            | 1             | NEW 0.00 RT      |
| 30       | US 52                  | 15+58.3 | ONLW            | 1             | NEW 0.00 RT      |
| 31       | US 52                  | 17+18.1 | ONLW            | 1             | NEW 0.00 RT      |
| 32       | US 52                  | 17+30.5 | LTAW            | 1             | NEW 0.82 RT      |
| 33       | US 52                  | 18+39.1 | ONLW            | 1             | NEW 0.36 RT      |
| 34       | US 52                  | 18+51.6 | LTAW            | 1             | NEW 0.95 RT      |
| 35       | US 52                  | 19+25   | ONLW            | 1             | NEW 0.00 RT      |
| 36       | US 52                  | 19+37.3 | LTAW            | 1             | NEW 0.51 RT      |
| 37       | 12TH AVE SE            | 14+91.2 | RTAW            | 1             | NEW 83.62 RT     |
| 38       | 12TH AVE SE            | 14+92.6 | ONLW            | 1             | NEW 97.84 RT     |
| 39       | 12TH AVE SE            | 14+83   | CSLW            | 1             | NEW 85.33 RT     |

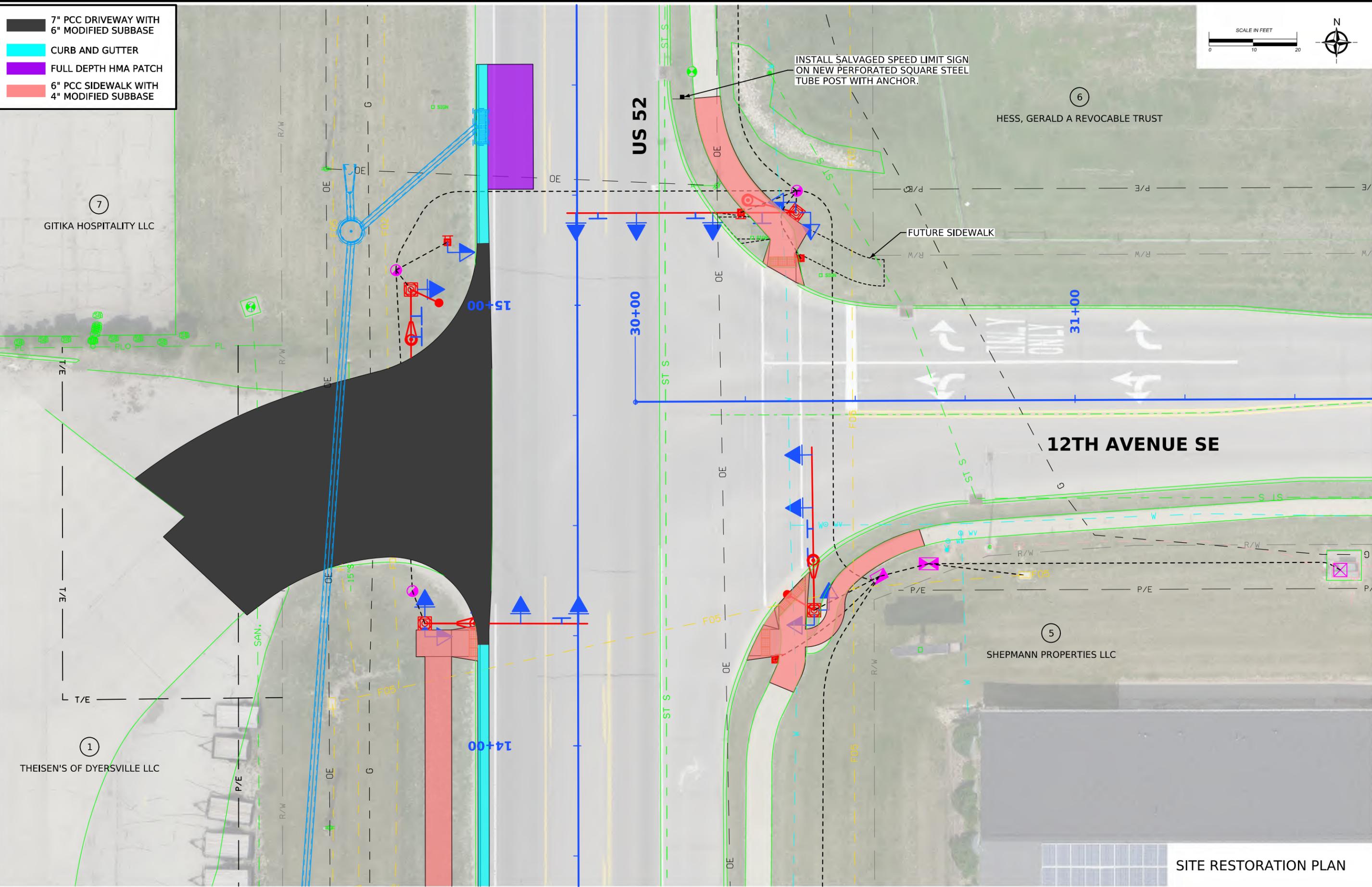
- 7" PCC DRIVEWAY WITH 6" MODIFIED SUBBASE
- CURB AND GUTTER
- FULL DEPTH HMA PATCH
- 6" PCC SIDEWALK WITH 4" MODIFIED SUBBASE



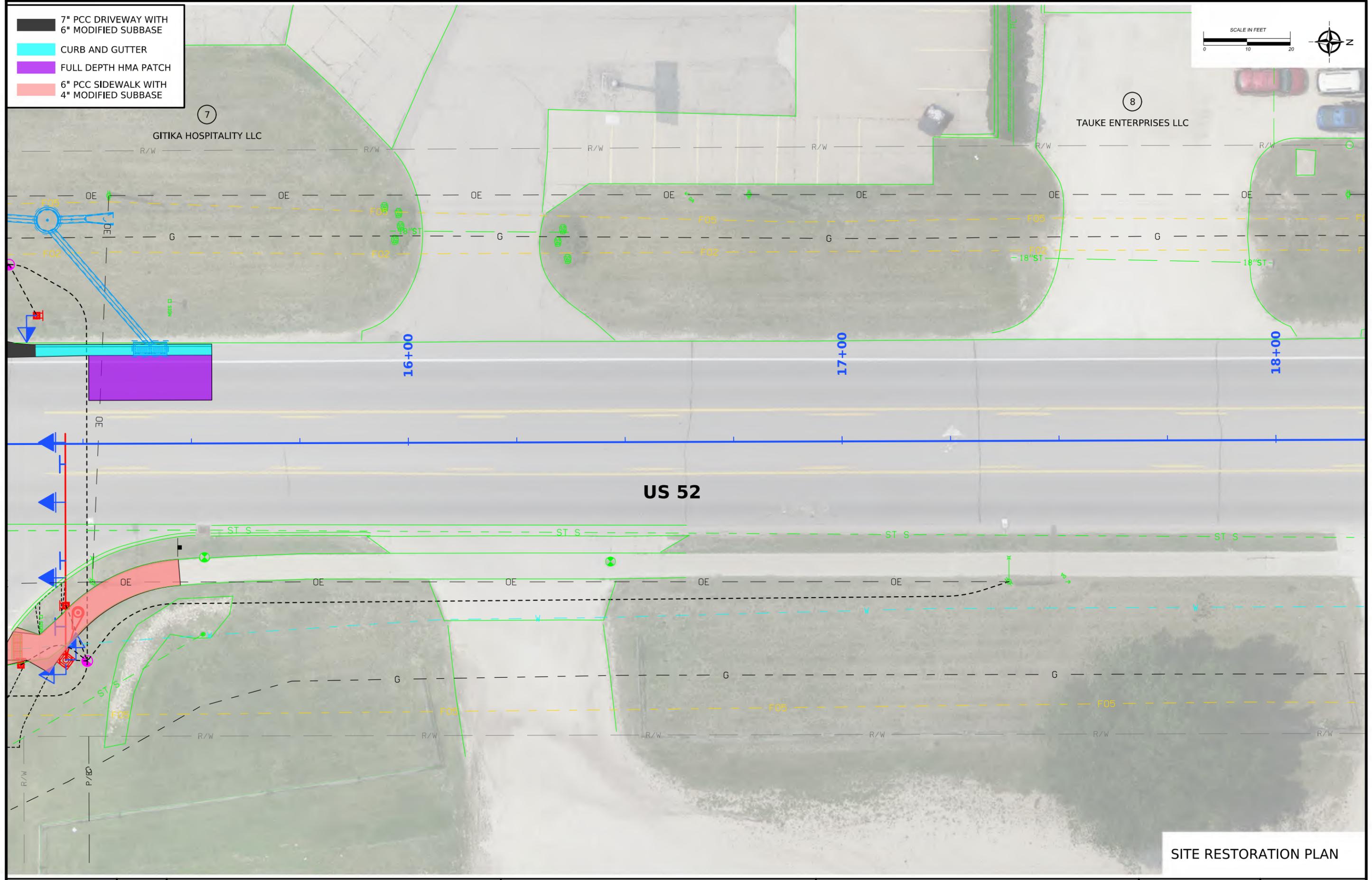
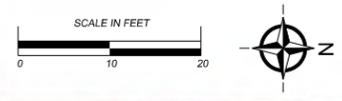
**SITE RESTORATION PLAN**



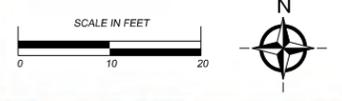
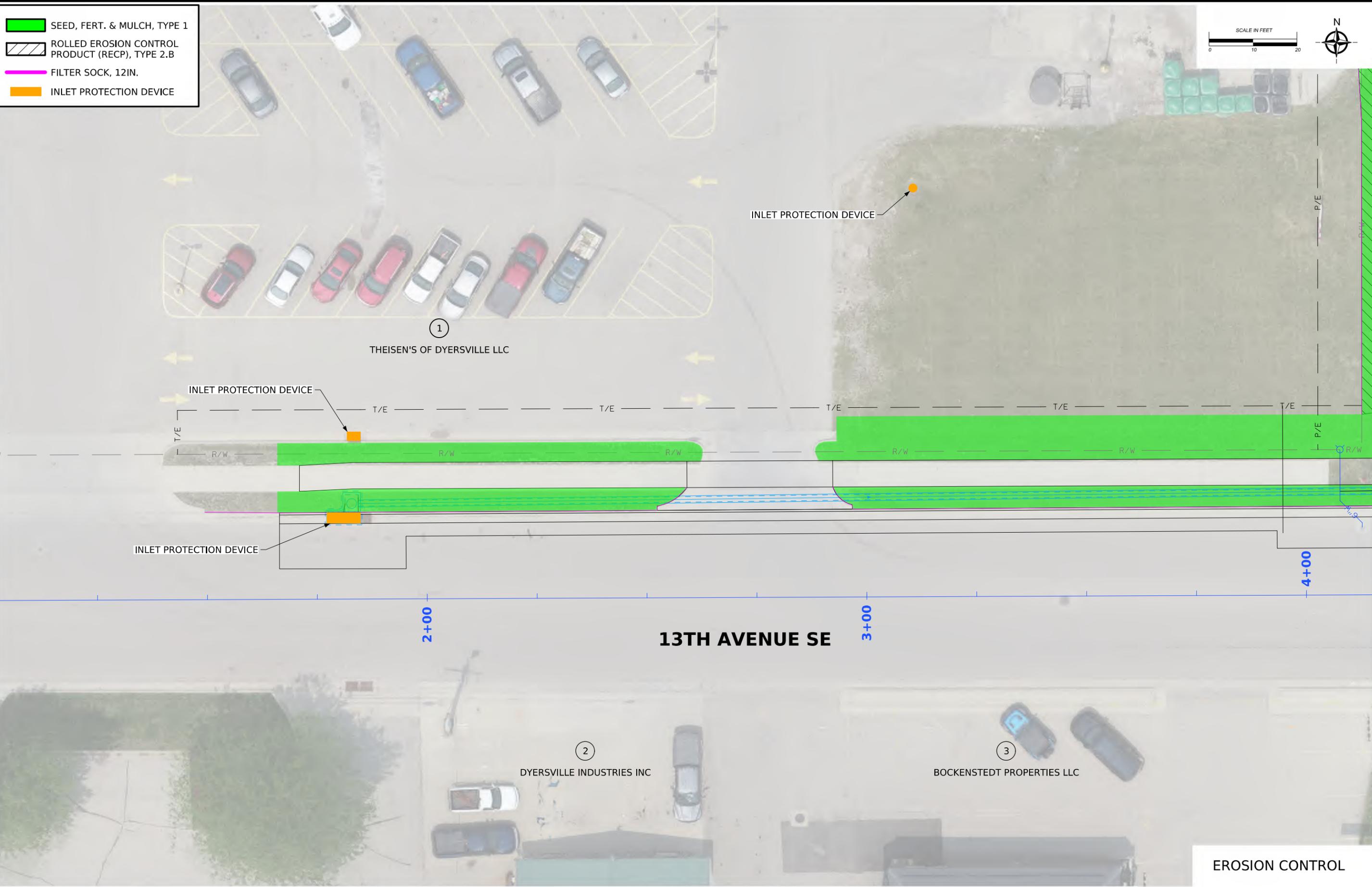
**SITE RESTORATION PLAN**



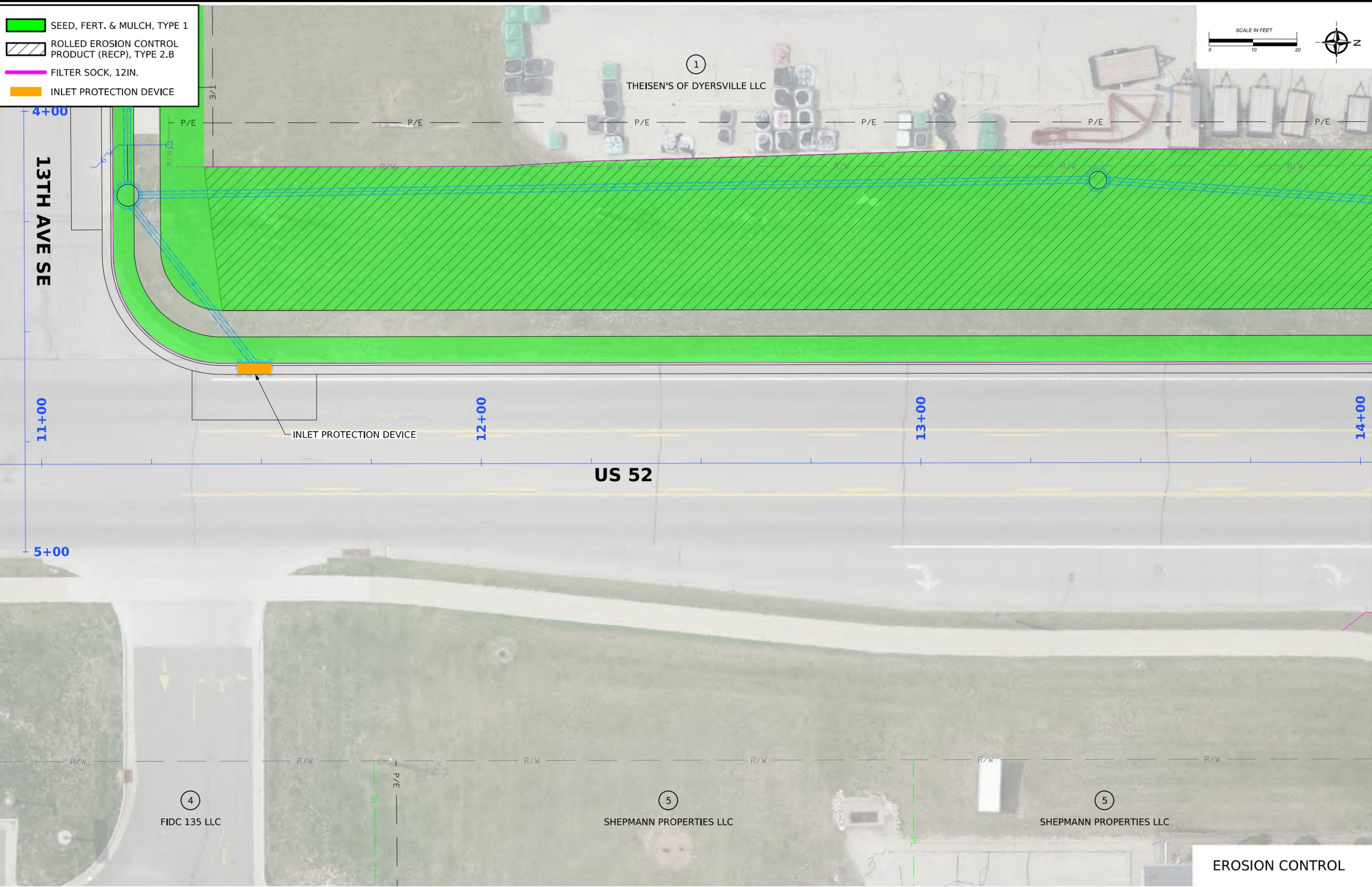
- 7" PCC DRIVEWAY WITH 6" MODIFIED SUBBASE
- CURB AND GUTTER
- FULL DEPTH HMA PATCH
- 6" PCC SIDEWALK WITH 4" MODIFIED SUBBASE



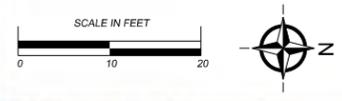
**SITE RESTORATION PLAN**



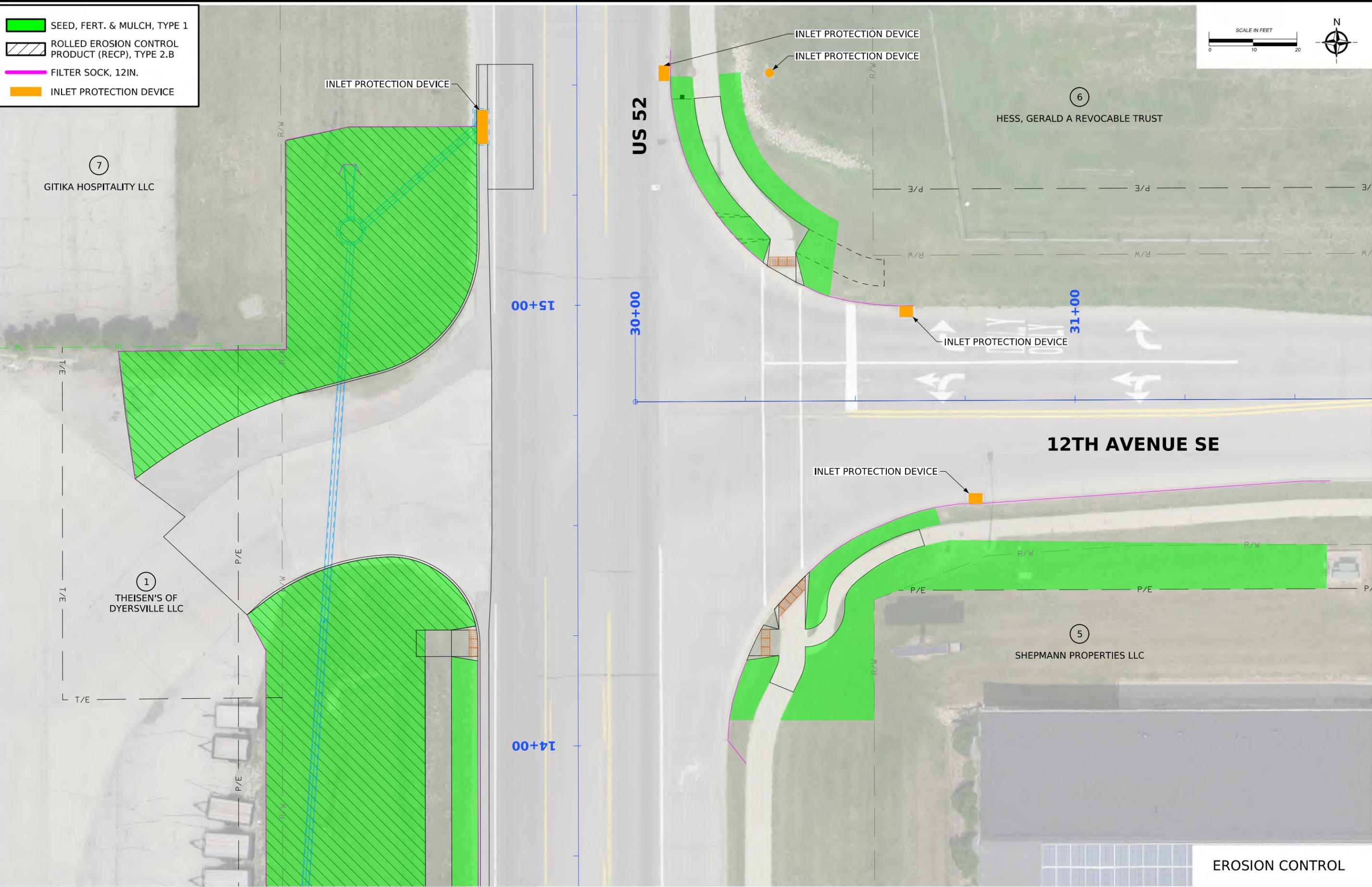
EROSION CONTROL



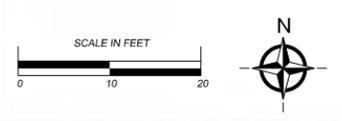
- SEED, FERT. & MULCH, TYPE 1
- ROLLED EROSION CONTROL PRODUCT (RECP), TYPE 2.B
- FILTER SOCK, 12IN.
- INLET PROTECTION DEVICE



EROSION CONTROL



- SEED, FERT. & MULCH, TYPE 1
- ROLLED EROSION CONTROL PRODUCT (RECP), TYPE 2.B
- FILTER SOCK, 12IN.
- INLET PROTECTION DEVICE

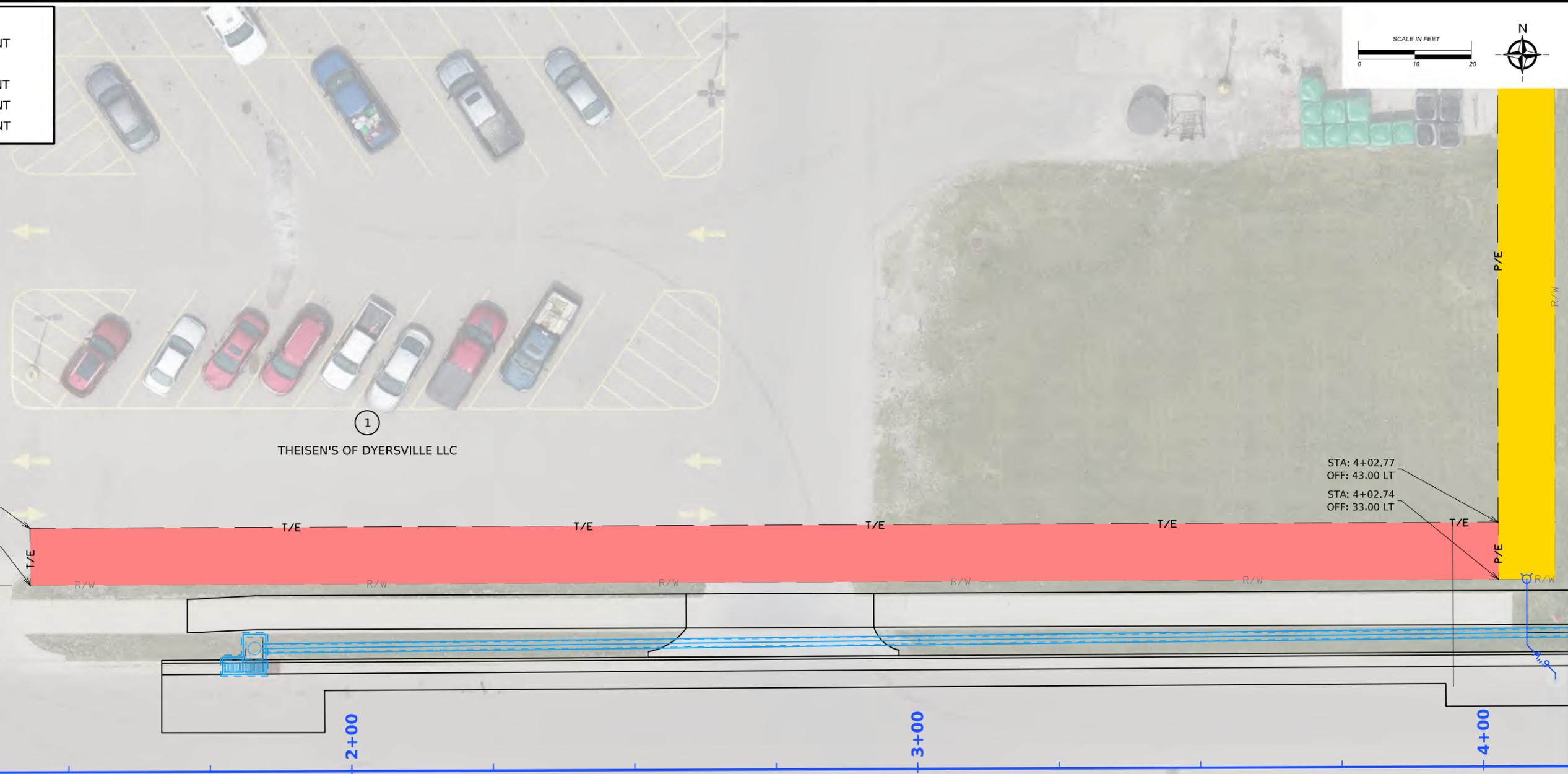
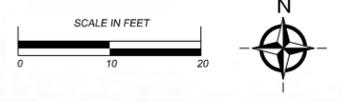


**EROSION CONTROL**

| CONTROL POINTS |            |             |           |                                   |
|----------------|------------|-------------|-----------|-----------------------------------|
| NO.            | NORTHING   | EASTING     | ELEVATION | DESCRIPTION                       |
| 501            | 9110513.55 | 13522437.94 | 841.07    | 5/8" REBAR WITH YELLOW CAP #1548  |
| 505            | 9111783.23 | 13523060.77 | 857.46    | CUT "X" ON TOP OF RAILROAD RAIL   |
| 509            | 9111326.30 | 13522710.92 | 849.60    | 5/8" REBAR WITH YELLOW CAP #14417 |
| 513            | 9110833.30 | 13523405.79 | 864.68    | PK NAIL WITH WASHER #12631        |
| 514            | 9110900.45 | 13523676.02 | 869.75    | 5/8" REBAR WITH YELLOW CAP #15487 |
| 516            | 9110820.37 | 13523197.73 | 855.06    | 5/8" REBAR                        |

| Alignment Name: US 52 |           |          |             |             |
|-----------------------|-----------|----------|-------------|-------------|
|                       |           | Station  | Northing    | Easting     |
| Element: Linear       |           |          |             |             |
| START                 | ( START ) | 0        | 9110387.182 | 13523131.07 |
| HPI                   | ( HPI )   | 491.119  | 9110878.3   | 13523130.31 |
| Tangential Direction: |           | N0.089°W |             |             |
| Tangential Length:    |           | 491.119  |             |             |
| Element: Linear       |           |          |             |             |
| HPI                   | ( HPI )   | 491.119  | 9110878.3   | 13523130.31 |
| HPI                   | ( HPI )   | 939.66   | 9111326.839 | 13523128.87 |
| Tangential Direction: |           | N0.184°W |             |             |
| Tangential Length:    |           | 448.54   |             |             |
| Element: Linear       |           |          |             |             |
| HPI                   | ( HPI )   | 939.66   | 9111326.839 | 13523128.87 |
| END                   | ( END )   | 1202.232 | 9111589.411 | 13523128.42 |
| Tangential Direction: |           | N0.097°W |             |             |
| Tangential Length:    |           | 262.572  |             |             |

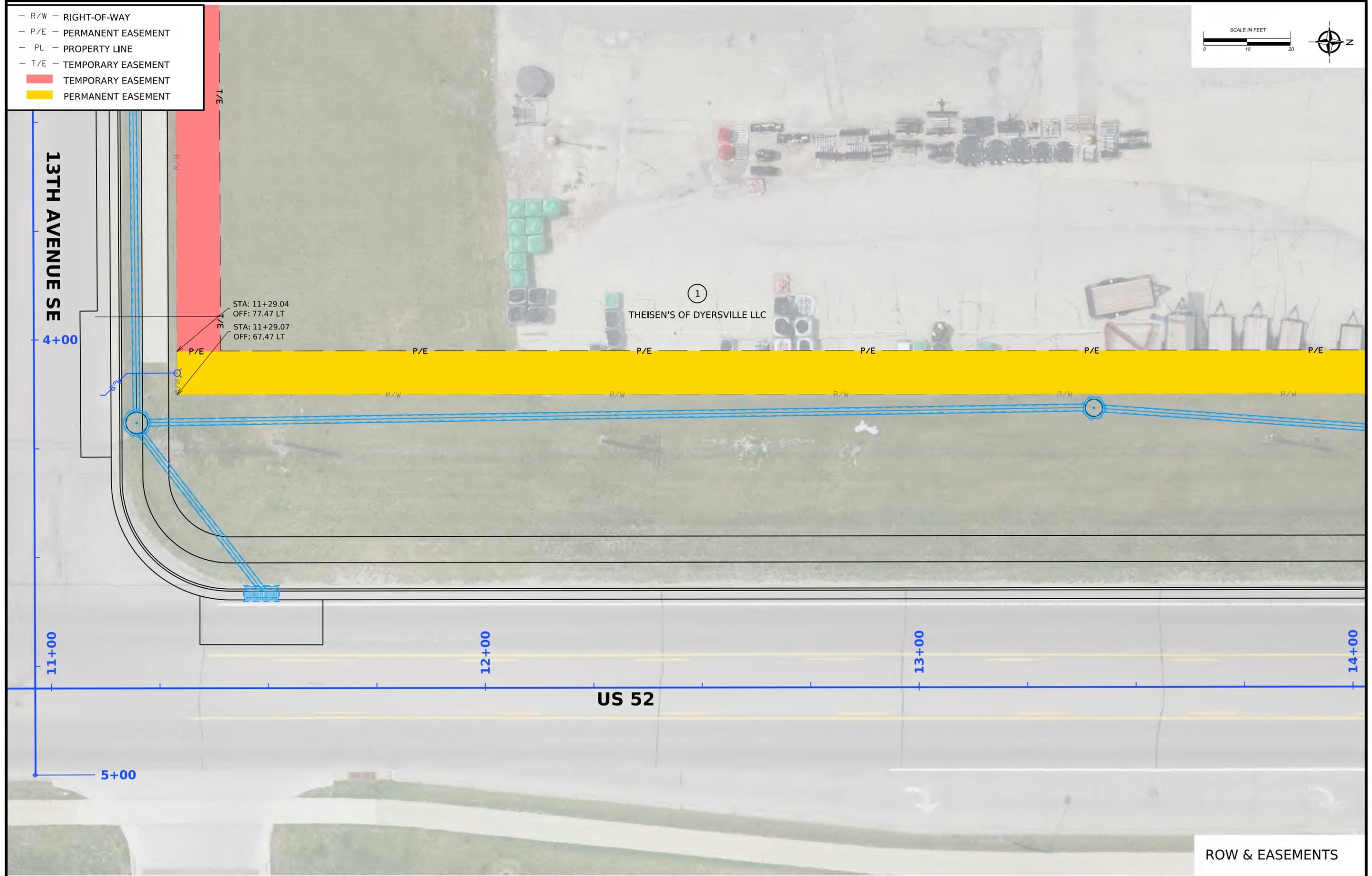
- R/W - RIGHT-OF-WAY
- P/E - PERMANENT EASEMENT
- PL - PROPERTY LINE
- T/E - TEMPORARY EASEMENT
- TEMPORARY EASEMENT
- PERMANENT EASEMENT



**13TH AVENUE SE**

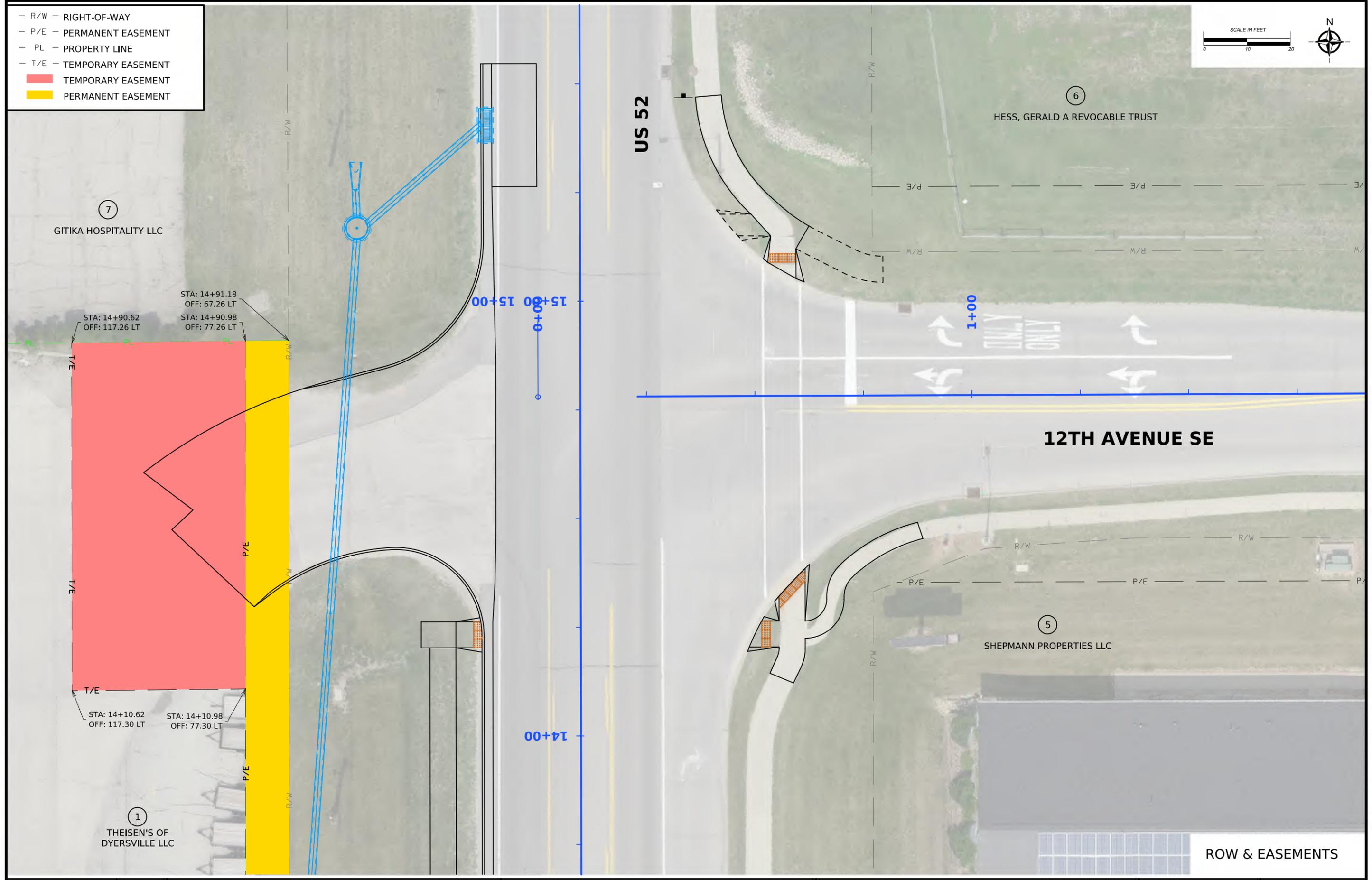
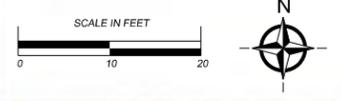
**ROW & EASEMENTS**

- R/W - RIGHT-OF-WAY
- P/E - PERMANENT EASEMENT
- PL - PROPERTY LINE
- T/E - TEMPORARY EASEMENT
- TEMPORARY EASEMENT
- PERMANENT EASEMENT



ROW & EASEMENTS

- R/W - RIGHT-OF-WAY
- P/E - PERMANENT EASEMENT
- PL - PROPERTY LINE
- T/E - TEMPORARY EASEMENT
- TEMPORARY EASEMENT
- PERMANENT EASEMENT



ROW & EASEMENTS

# TRAFFIC CONTROL PLAN

THE J SHEETS DESCRIBE TRAFFIC CONTROL NECESSARY FOR US 52 AND 13TH AVENUE.

ALL TRAFFIC CONTROL SIGNS WILL BE THE CONTRACTORS RESPONSIBILITY.

THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS IN THE AREA.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CLOSURES SHOWN ON THE J SHEETS. FOR ADDITIONAL INFORMATION, REFER TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

METHOD OF MEASUREMENT AND BASIS OF PAYMENT:

NO FIELD MEASUREMENT SHALL BE MADE FOR THE TRAFFIC CONTROL BID ITEM. THE CONTRACTOR SHALL BE PAID THE LUMP SUM BID AMOUNT FOR TRAFFIC CONTROL.

THE LUMP SUM BID ITEM "TRAFFIC CONTROL" SHALL INCLUDE ALL COSTS FOR TRAFFIC CONTROL MEASURES DURING CONSTRUCTION FOR THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF 2 FEET CLEAR OF THE BACK OF CURB OR OUTSIDE EDGE OF SHOULDER WHERE POSSIBLE.

ALL DETOUR ROUTE SIGNS AND ROAD CLOSURE BARRICADES SHALL BE INSTALLED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO CLOSING THE ROAD.

ALL SIGNS SHALL BE POST MOUNTED UNLESS NOTED OR OTHERWISE APPROVED BY THE ENGINEER.

PROPOSED SIGN SPACING MAY BE MODIFIED, AS APPROVED BY THE ENGINEER, TO MEET EXISTING FIELD RESTRICTIONS, OR TO PREVENT OBSTRUCTION OF THE MOTORIST'S VIEW OF PERMANENT SIGNING.

PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN SHALL BE REVIEWED WITH THE ENGINEER BEFORE CHANGES ARE MADE.

THIS LAYOUT DOES NOT INCLUDE ALL BARRICADES AS MAY BE REQUIRED BY 8030.116 OF THE SUDAS STANDARD SPECIFICATIONS.

ALL "STOP" AND OTHER REGULATORY SIGNS ON THE SIDE ROADS ARE NOT TO BE DISTURBED. IF A REGULATORY SIGN MUST BE PERMANENTLY REMOVED, IT WILL BE RELOCATED BY THE CONTRACTING AUTHORITY.

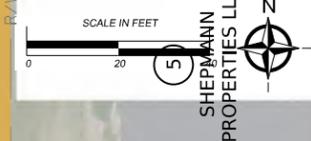
ANY TEMPORARY REGULATORY SIGNS ARE TO BE LOCATED AND MAINTAINED BY THE CONTRACTOR.

ALL CONTRACTOR FURNISHED TRAFFIC CONTROL AND FIXED, POST MOUNTED, TRAFFIC CONTROL SIGNS USED ON THIS PROJECT SHALL BE SHEETED WITH ENCAPSULATED LENS SHEETING.

TYPE "C" STEADY BURN WARNING LIGHTS ARE NOT REQUIRED FOR VERTICAL PANELS, BARRICADES, AND DRUMS WHEN THESE TRAFFIC CONTROL DEVICES ARE SHEETED WITH ENCAPSULATED LENS SHEETING.

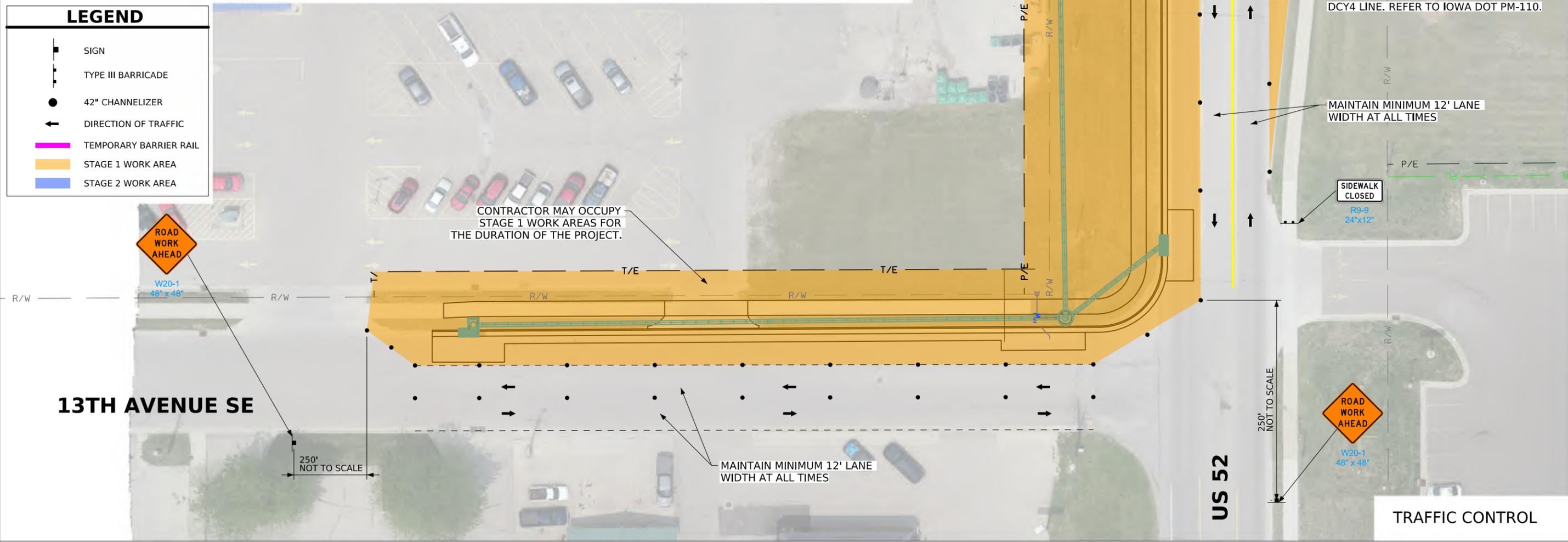
ALL TRAFFIC LANE CLOSURES SHALL BE RE-OPENED FOR PUBLIC USE WITHIN 24 HOURS OF THE COMPLETION OF ACTIVE CONSTRUCTION WORK AND THE ATTAINMENT OF REQUIRED CONCRETE STRENGTHS. THE CONTRACTOR SHALL ELIMINATE ALL UNSAFE CONDITIONS PRIOR TO REMOVING TRAFFIC CONTROL DEVICES.

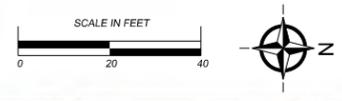
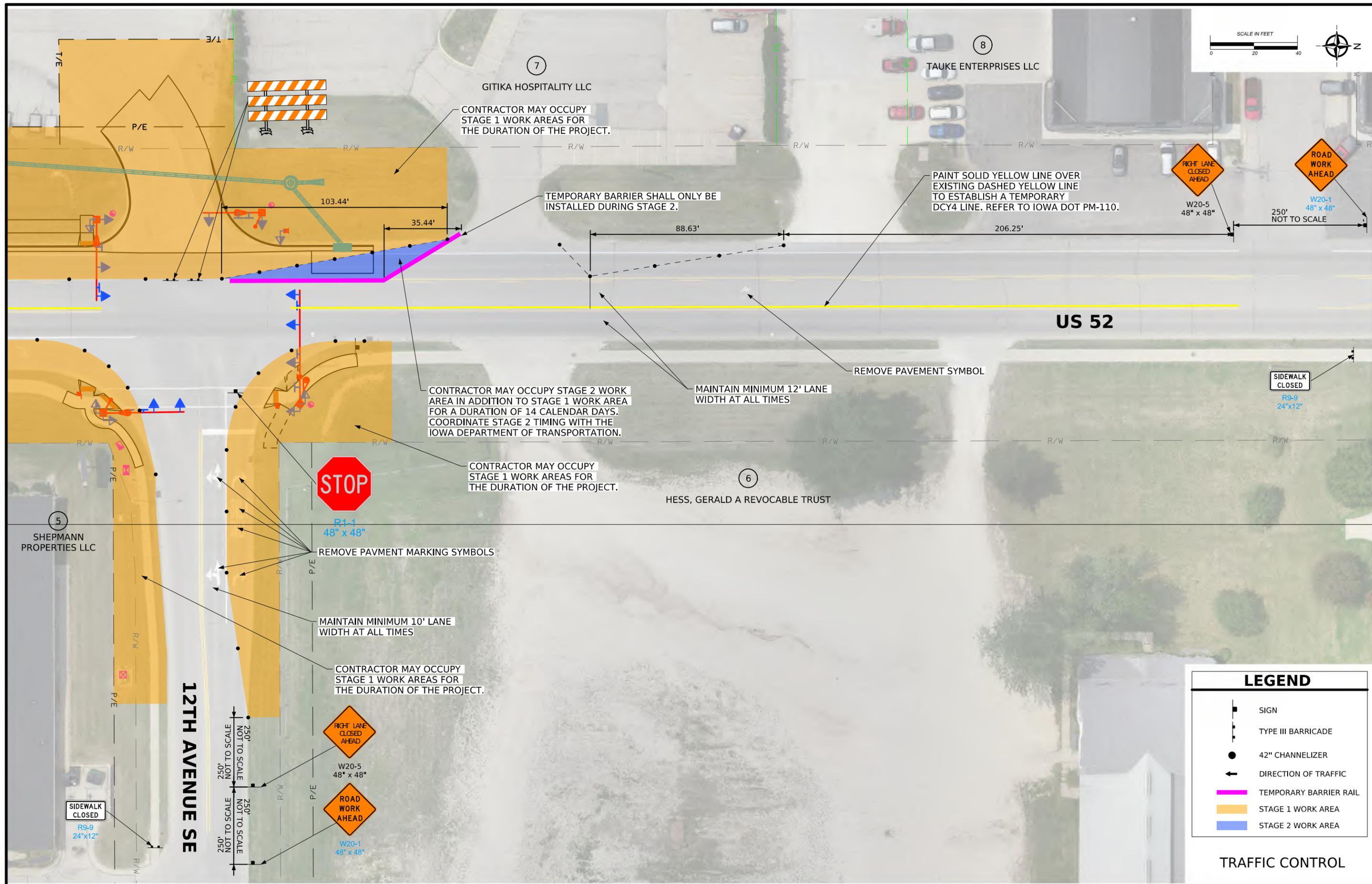
THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF STREET OR LANE CLOSURE TWO (2) WEEKS PRIOR TO THE CLOSURE. STREET OR LANE CLOSURE NOTIFICATION TO BE ISSUED BY THE CITY FIVE (5) DAYS PRIOR TO CLOSURE.



### LEGEND

- SIGN
- TYPE III BARRICADE
- 42" CHANNELIZER
- DIRECTION OF TRAFFIC
- TEMPORARY BARRIER RAIL
- STAGE 1 WORK AREA
- STAGE 2 WORK AREA

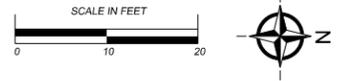




| LEGEND |                        |
|--------|------------------------|
|        | SIGN                   |
|        | TYPE III BARRICADE     |
|        | 42" CHANNELIZER        |
|        | DIRECTION OF TRAFFIC   |
|        | TEMPORARY BARRIER RAIL |
|        | STAGE 1 WORK AREA      |
|        | STAGE 2 WORK AREA      |

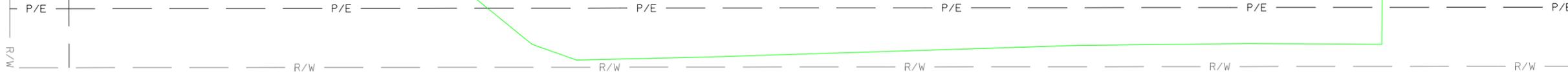
**TRAFFIC CONTROL**

13TH AVENUE SE



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THEISEN'S OF DYERSVILLE LLC



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FIDC 135 LLC

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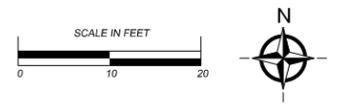
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SHEPMANN PROPERTIES LLC

PAVEMENT MARKING REMOVALS



7  
GITIKA HOSPITALITY LLC

6  
HESS, GERALD A REVOCABLE TRUST

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THEISEN'S OF DYERSVILLE LLC

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SHEPMANN PROPERTIES LLC

US 52

12TH AVENUE SE

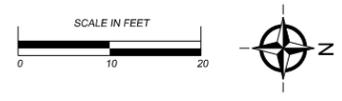
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PAVEMENT MARKING  
REMOVALS



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TAUKE ENTERPRISES LLC

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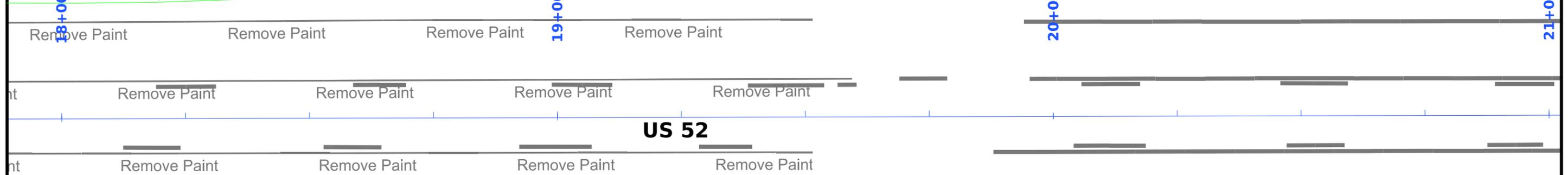
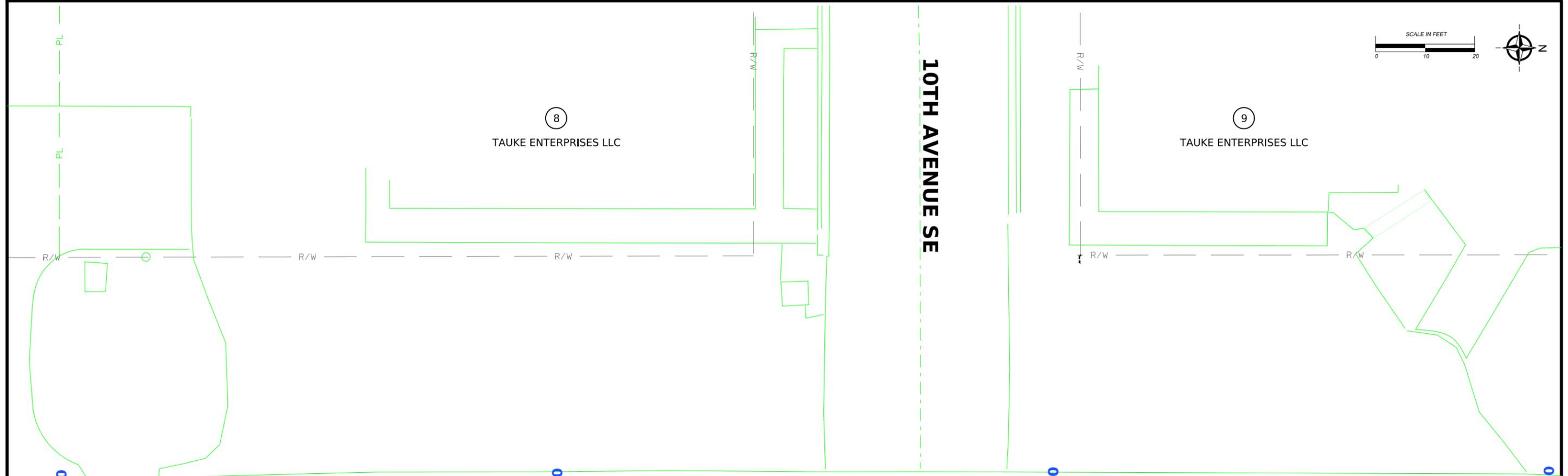
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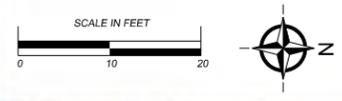
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PAVEMENT MARKING  
REMOVALS



PAVEMENT MARKING  
REMOVALS



13TH AVENUE SE

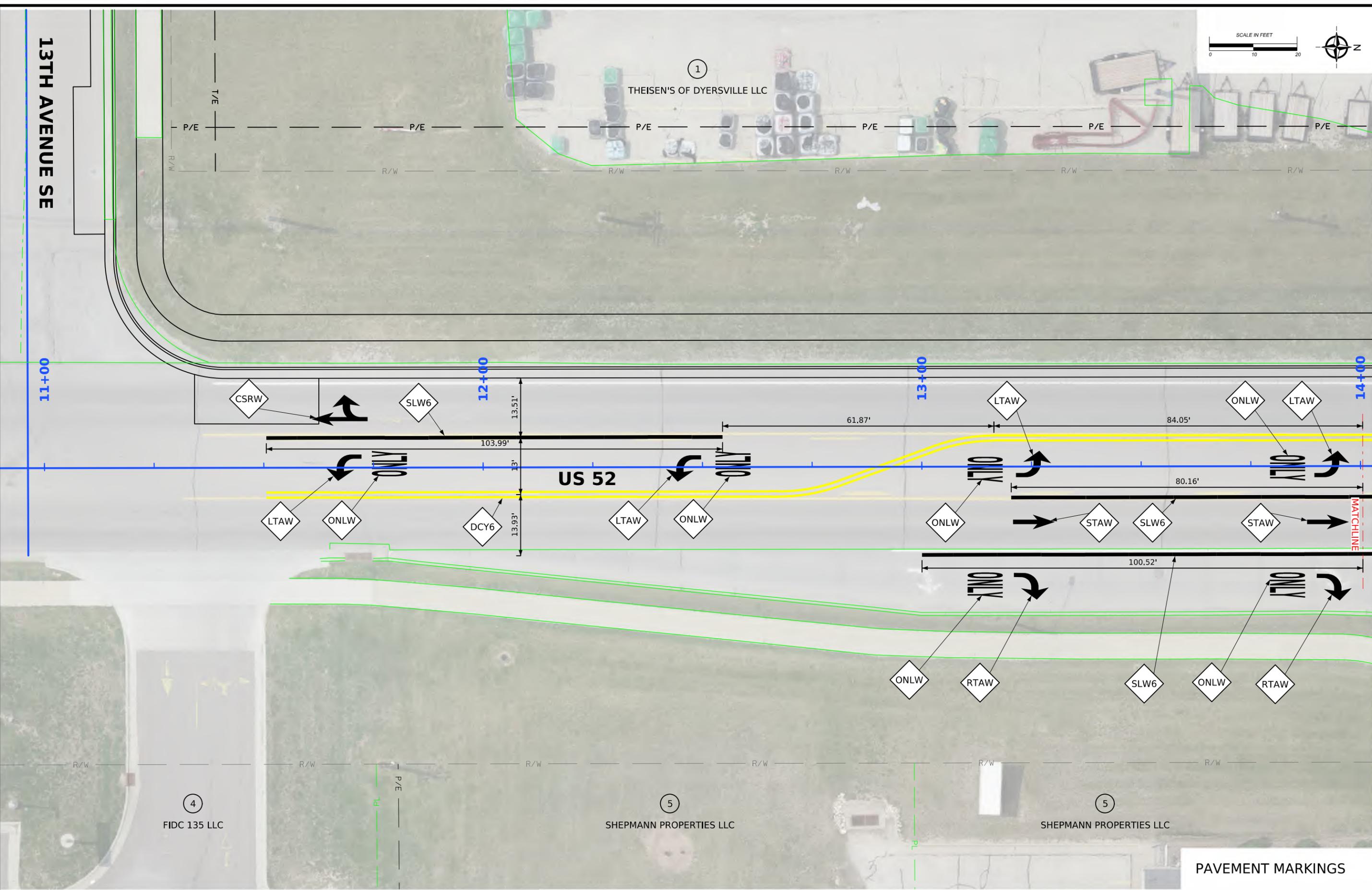
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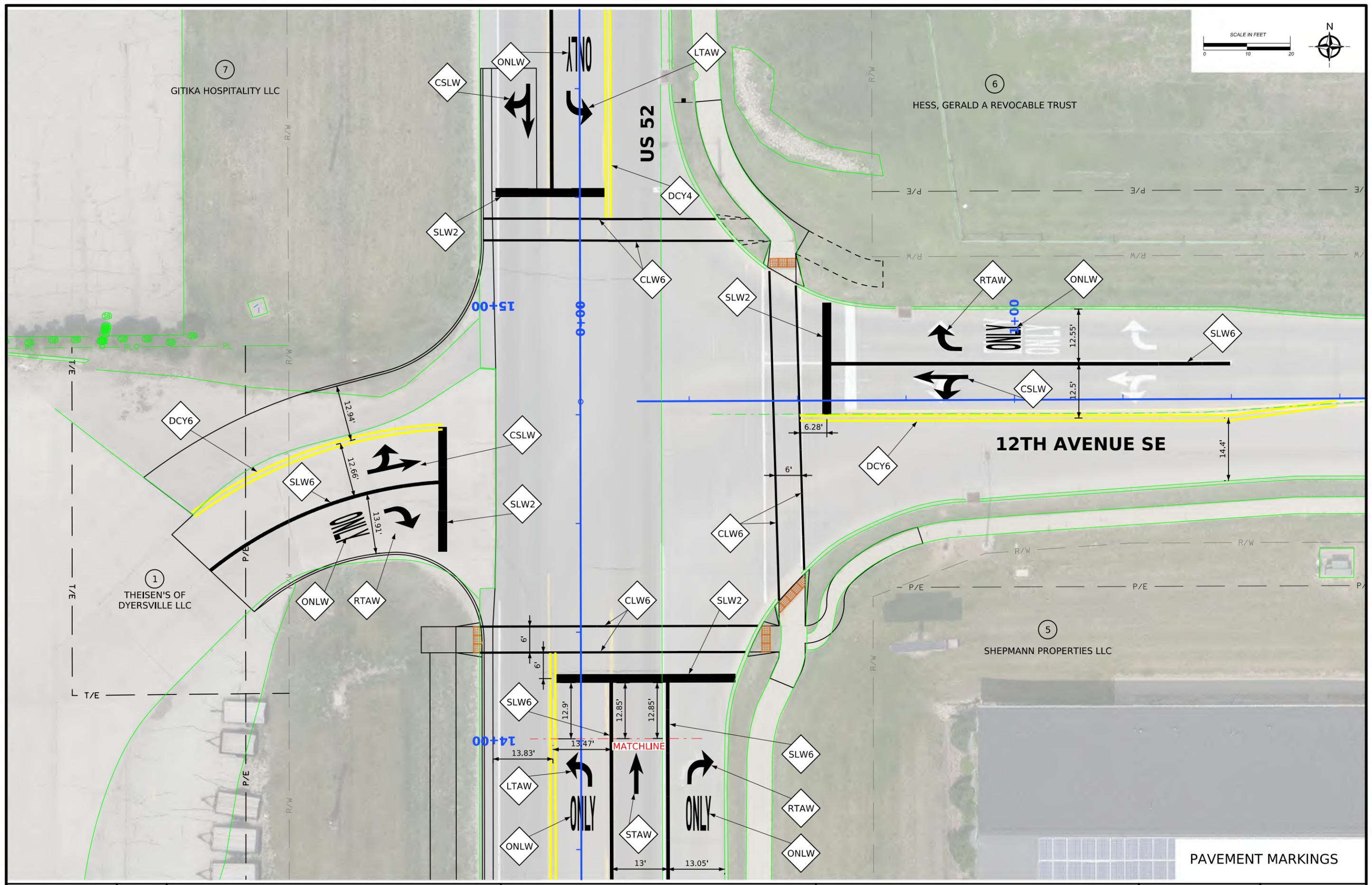
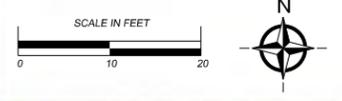
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FIDC 135 LLC

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SHEPMANN PROPERTIES LLC

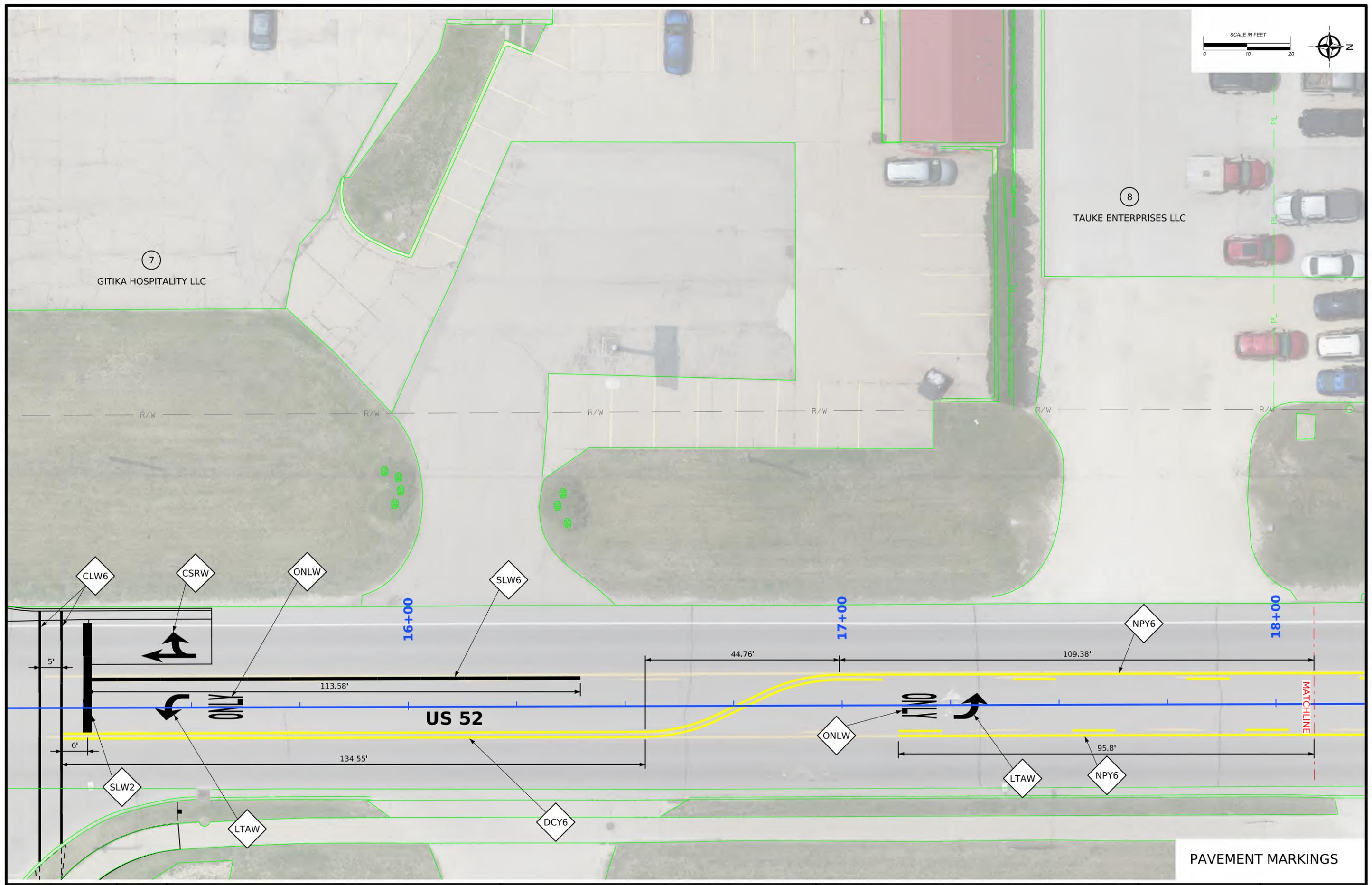
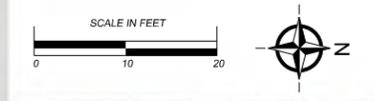
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PAVEMENT MARKINGS

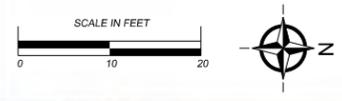




PAVEMENT MARKINGS



PAVEMENT MARKINGS



8  
TAUKE ENTERPRISES LLC

9  
TAUKE ENTERPRISES LLC

10TH AVENUE SE

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US 52

NPY6

144.77'

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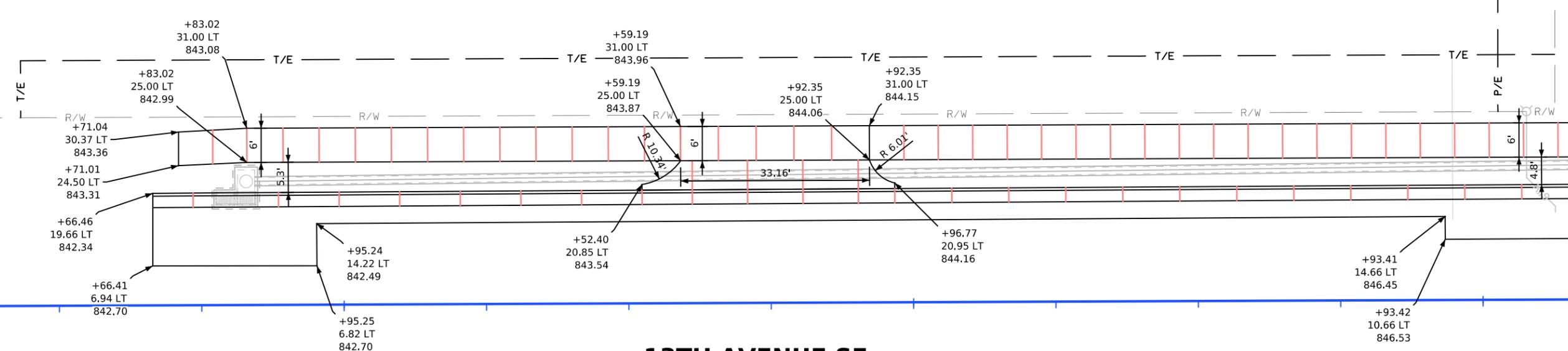
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PAVEMENT MARKINGS



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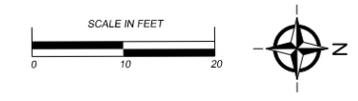
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DYERSVILLE INDUSTRIES INC

3

BOCKENSTEDT PROPERTIES LLC

GEOMETRICS



①  
THEISEN'S OF DYERSVILLE LLC

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+93.41  
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+32.35  
17.71 LT  
847.61

+32.36  
20.21 LT  
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+31.41  
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+62.57  
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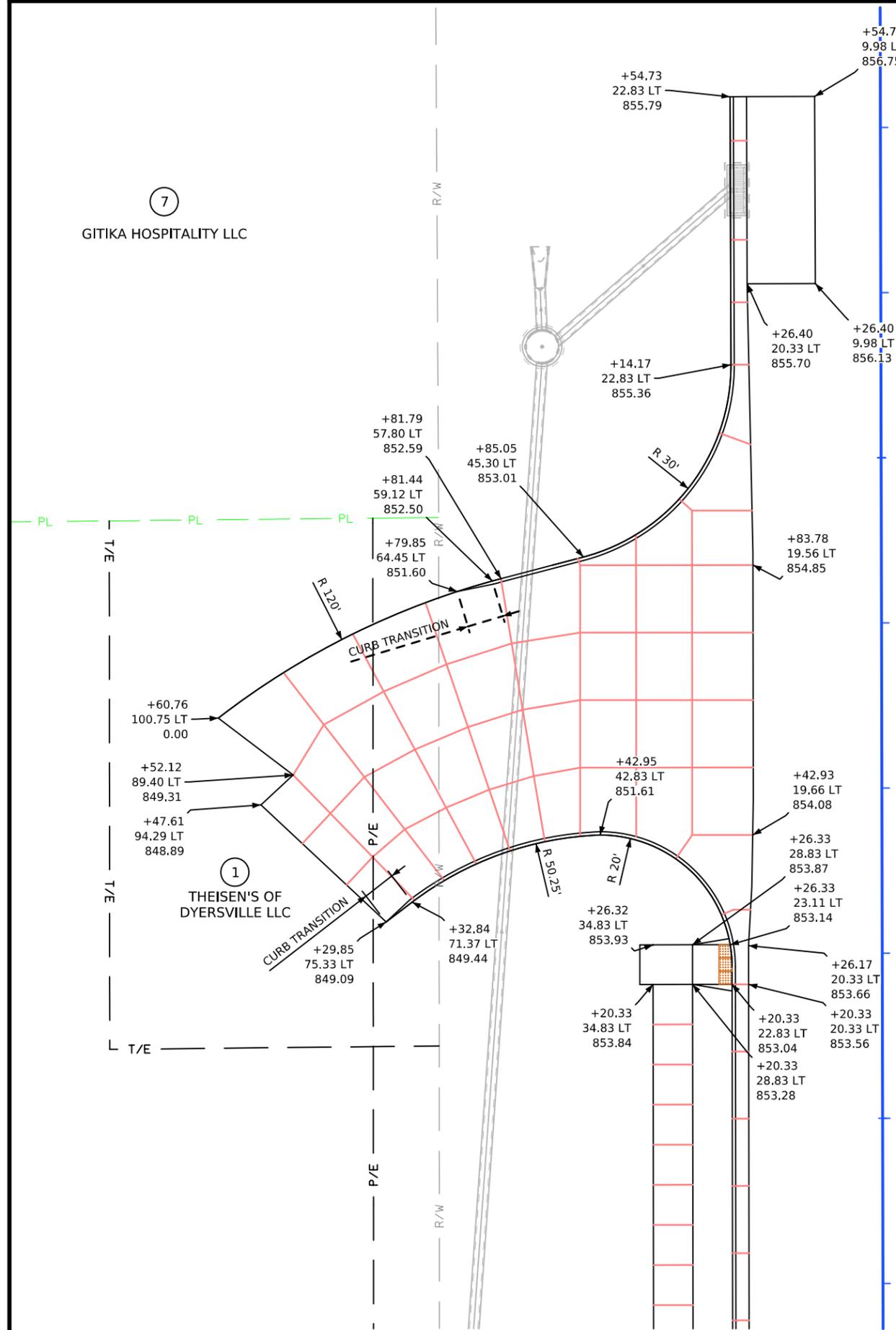
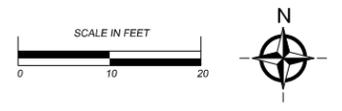
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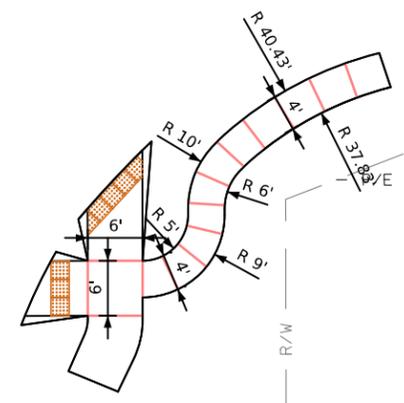
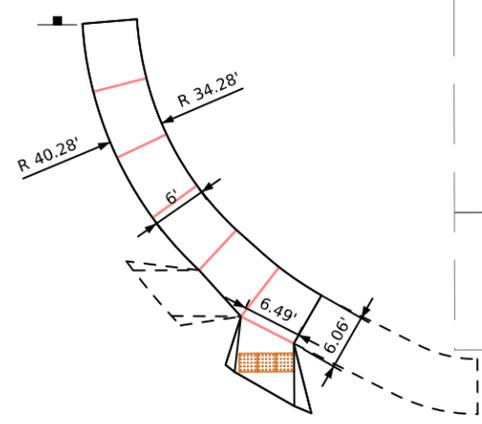
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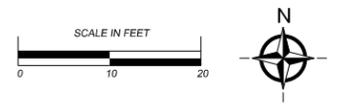


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12TH AVENUE SE

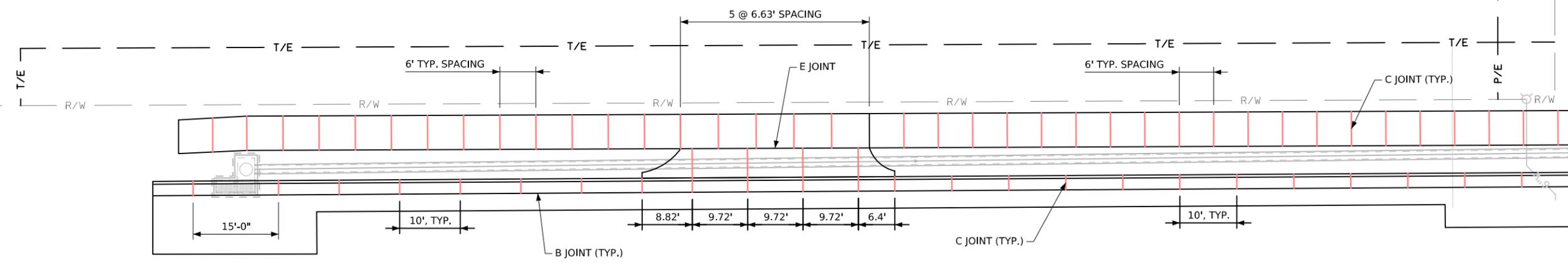
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SHEPMANN PROPERTIES LLC

GEOMETRICS



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DYERSVILLE INDUSTRIES INC

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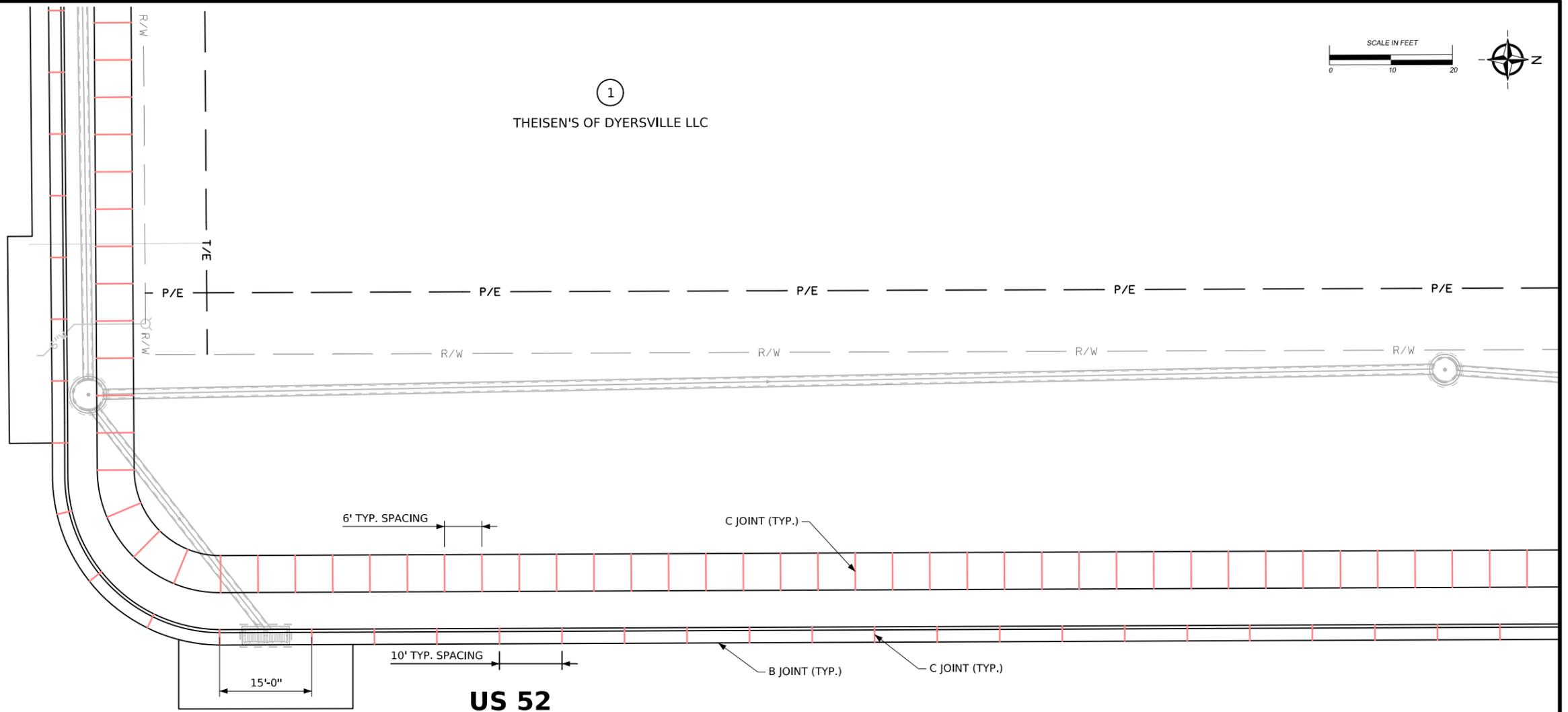
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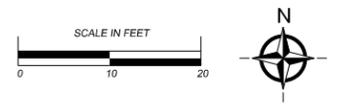
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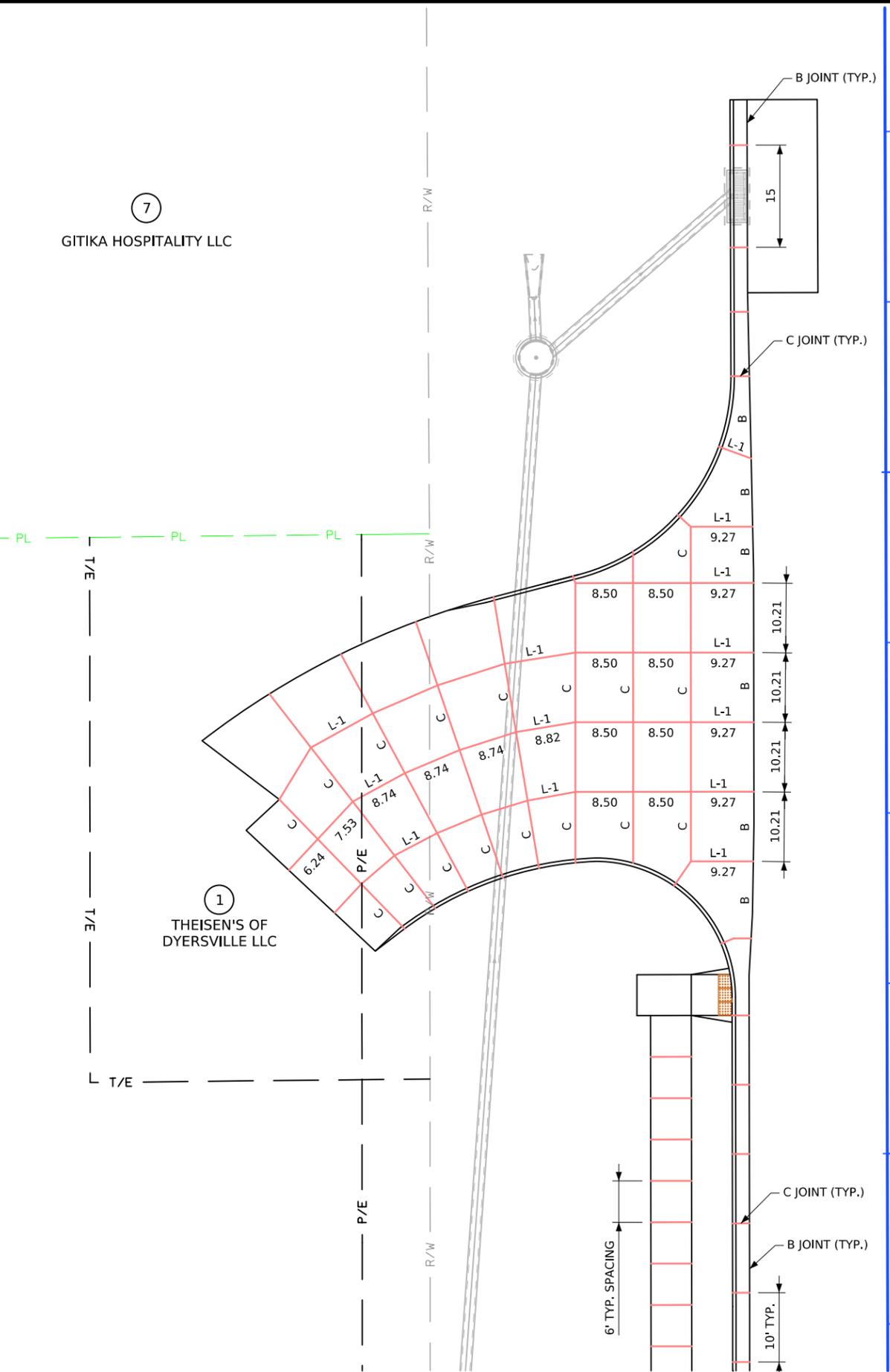
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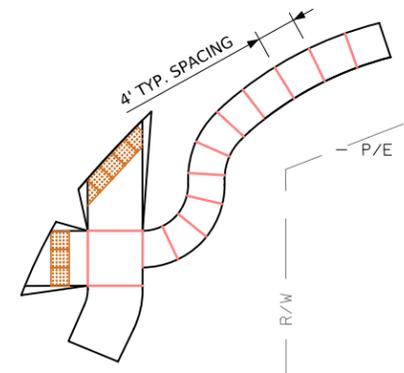
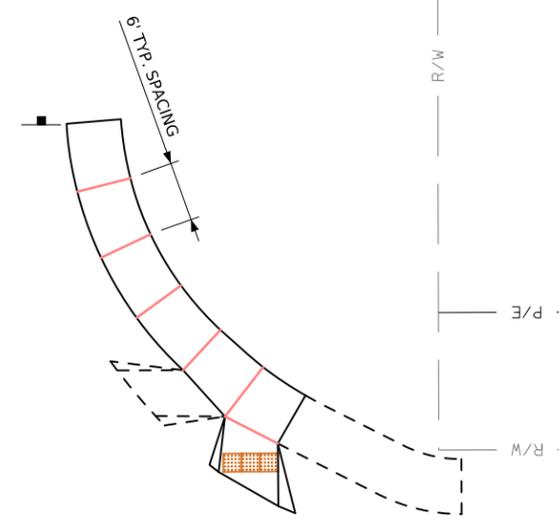
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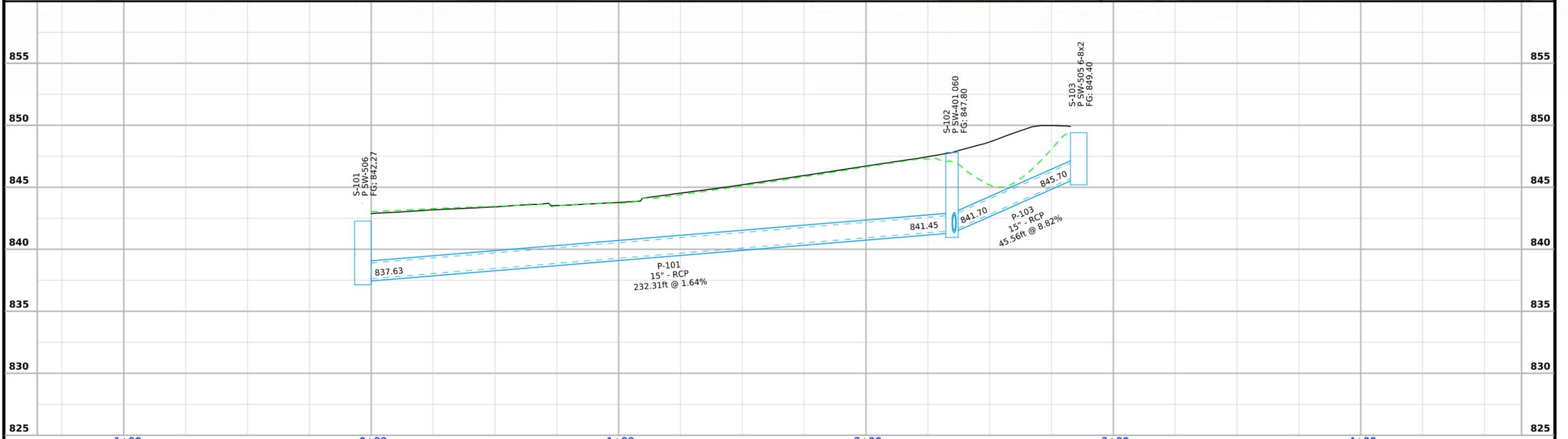
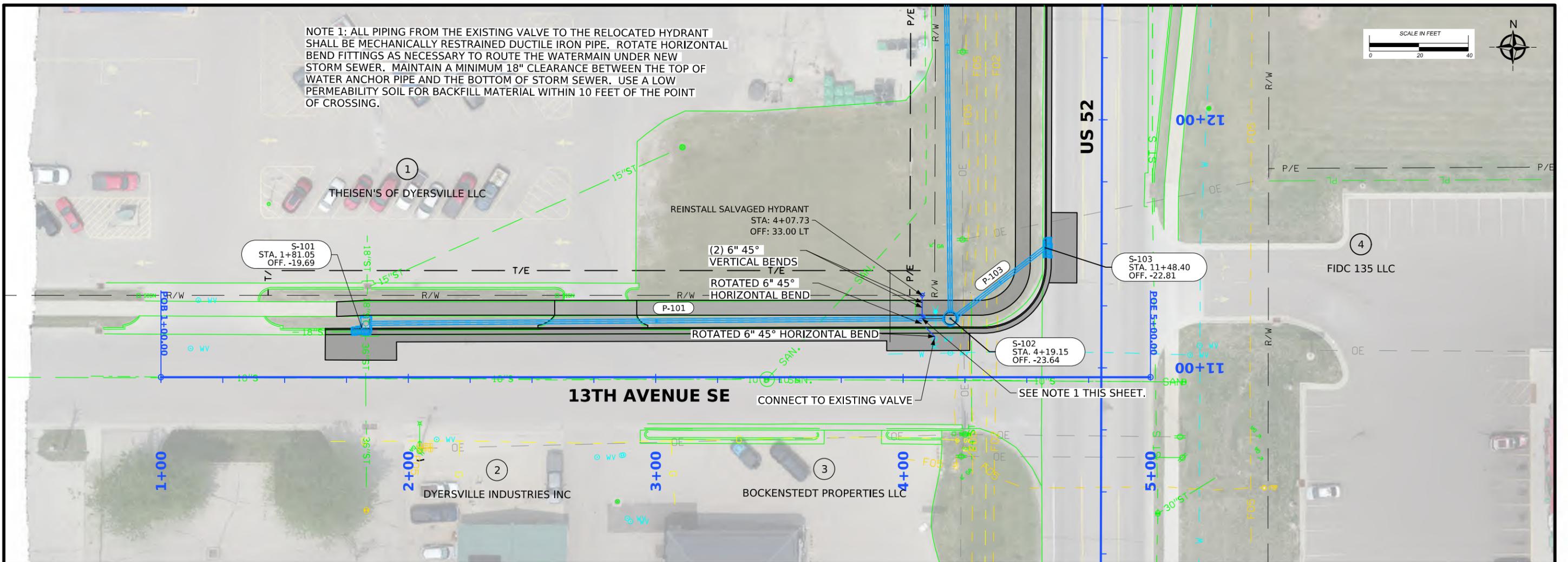
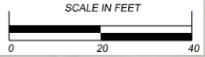
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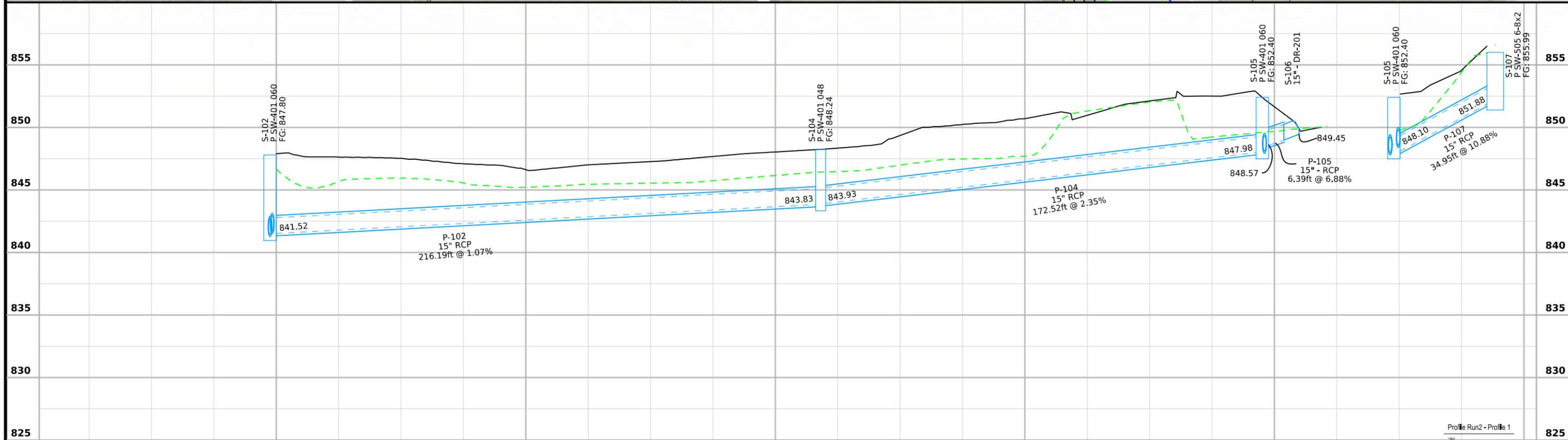
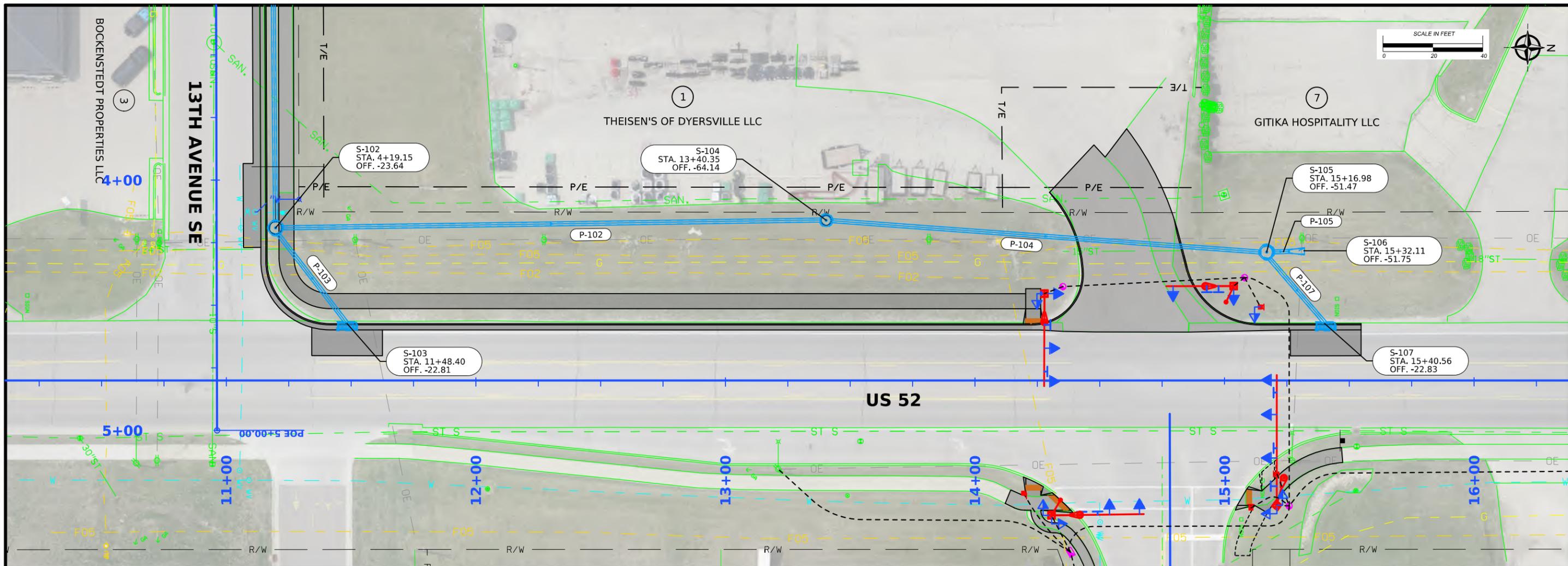
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SHEPMANN PROPERTIES LLC



JOINTING

NOTE 1: ALL PIPING FROM THE EXISTING VALVE TO THE RELOCATED HYDRANT SHALL BE MECHANICALLY RESTRAINED DUCTILE IRON PIPE. ROTATE HORIZONTAL BEND FITTINGS AS NECESSARY TO ROUTE THE WATERMAIN UNDER NEW STORM SEWER. MAINTAIN A MINIMUM 18" CLEARANCE BETWEEN THE TOP OF WATER ANCHOR PIPE AND THE BOTTOM OF STORM SEWER. USE A LOW PERMEABILITY SOIL FOR BACKFILL MATERIAL WITHIN 10 FEET OF THE POINT OF CROSSING.





**GENERAL NOTES**

- 1 THE STATIONING FOR FOOTINGS AND HANDHOLES REFERS TO THE CENTER OF THE STRUCTURE.
- 2 ALL QUANTITIES SHOWN IN THE TRAFFIC SIGNAL PLANS AND SPECIFICATIONS ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S LUMP SUM BID SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIAL NECESSARY TO MODIFY THE TRAFFIC SIGNAL IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
- 3 THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST ON THE PROJECT THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION ON THE PROJECT TO ESTABLISH LOCATIONS.
- 4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES FOR THE PROJECT. PROVIDE TRAFFIC CONTROL DEVICES AS REQUIRED TO FACILITATE CONSTRUCTION OF TRAFFIC SIGNALS IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
- 5 THE CONTRACTOR SHALL INSTALL ONE SIGNAL CABLE FROM EACH SIGNAL HEAD TO THE BASE OF THE POLE. A 5-CONDUCTOR CABLE SHALL BE USED FOR 3-SECTION SIGNAL HEADS AND A 7-CONDUCTOR FOR EITHER 4 OR 5-SECTION SIGNAL HEADS.
- 6 THE CONTRACTOR SHALL INSTALL A #6 A.W.G. BARE COPPER GROUND WIRE BETWEEN THE GROUND RODS IN THE SIGNAL FOOTINGS AND THE CONTROLLER CABINET TO FORM A CONTINUOUSLY GROUNDED SYSTEM.
- 7 MAST ARM MOUNTED SIGNAL HEADS SHALL BE FURNISHED WITH BACKPLATES.
- 8 THE MAST ARM MOUNTED SIGNAL HEADS, TRAFFIC SIGNS, AND STREET NAME SIGNS SHALL BE MOUNTED BY USING A UNIVERSALLY ADJUSTABLE MOUNTING BRACKET.
- 9 PROVIDE 48 HOURS NOTICE TO THE CITY OF WEST DES MOINES BEFORE MODIFYING EXISTING TRAFFIC SIGNALS OR PLACING PERMANENT TRAFFIC SIGNALS INTO OPERATION.
- 10 ALL CONDUIT SHALL BE SCHEDULE 40 PVC OR HDPE SDR 13.5.
- 11 WHEN HEATING PVC CONDUIT TO FORM A BEND, AN APPROVED CONDUIT HEATING DEVICE SHALL BE USED. DIRECT FLAME SHALL NOT BE APPLIED TO THE CONDUIT.
- 12 TRAFFIC SIGNAL HEADS AND SIGNS NOT NEEDED DUE TO THE ROADWAY CONFIGURATION AT THE TIME OF SIGNAL TURN ON WILL BE COVERED WITH A COMMERCIALY AVAILABLE SIGNAL HEAD COVER APPROVED BY THE ENGINEER.
- 13 INSTALL ONE (1) PULL ROPE AND TRACER WIRE IN EACH CONDUIT PER SPECIFICATIONS. THE PULL ROPE TERMINATES IN THE CABINET.
- 14 IMSA 19-1 SIGNAL CABLE CONDUCTORS SHALL BE SOLID AND NOT STRANDED.
- 15 TRACER WIRES SHALL BE SOLDERED TOGETHER AND COVERED WITH A WIRE NUT.
- 16 BARE GROUND WIRES SHALL BE CONNECTED TOGETHER BY AN APPROVED MECHANICAL CRIMP TYPE OF CONNECTOR. SPLIT BOLT CONNECTORS WILL NOT BE USED.
- 17 THE CONTRACTOR SHALL HAVE AN EMPLOYEE ON THE PROJECT WITH A LEVEL II INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) TRAFFIC SIGNAL TECHNICIAN CERTIFICATION.
- 18 UNLESS OTHERWISE DIRECTED, TRAFFIC SIGNAL HEADS ON MAST ARMS SHALL BE ALIGNED OVER THE CENTER OF INTERSECTION APPROACH LANES. APPROXIMATE TRAFFIC SIGNAL HEAD LOCATIONS ON MAST ARM ARE SHOWN ON POLE DETAIL SHEET.
- 19 AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL FIELD LOCATE ALL SIGNAL CONDUIT RUNS BY MARKING PAINT AND FLAGS. CONFIRM HOW THE CITY OF DYERSVILLE WOULD LIKE THE AS-BUILT LOCATIONS RECORDED.
- 20 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ONE-CALL LOCATES OF THE TRAFFIC SIGNAL AND INTERCONNECT CABLES INSTALLED UNDER THIS PROJECT UNTIL ACCEPTANCE OF THE PROJECT BY THE CITY.
- 21 ANY LANE CLOSURES MUST BE PRE-APPROVED BY THE IOWA DEPARTMENT OF TRANSPORTATION.
- 22 TRAFFIC SIGNAL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 8010 OF THE SUDAS SPECIFICATIONS EXCEPT AS MODIFIED BY THE PROJECT PLANS AND SPECIFICATIONS.
- 23 LUMINAIRES INSTALLED WITH ONE NEW STREETLIGHT POLE AND FOUR NEW COMBINATION SIGNAL/LIGHTING POLES SHALL BE STREETWORKS ARCHEON SMALL CATALOG # ARCH-S-PA1-60-740-U-T2U-AP-10K-PR7.

**INDEX OF SHEETS**

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|------|--------------------------|
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| N.02 | QUANTITIES               |
| N.03 | SIGNAL WIRING            |
| N.04 | SIGNAL LAYOUT            |
| N.05 | SIGNAL WIRING            |
| N.06 | SIGNAL WIRING            |
| N.07 | SIGNAL INFORMATION       |
| N.08 | SIGNAL PHASING           |

**SIGNAL LEGEND**

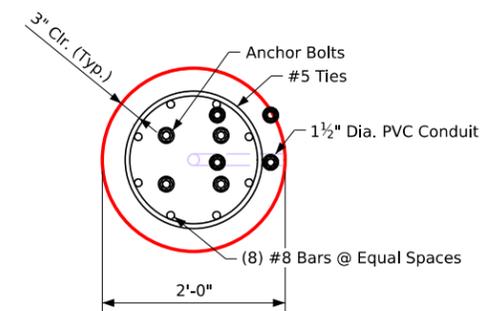
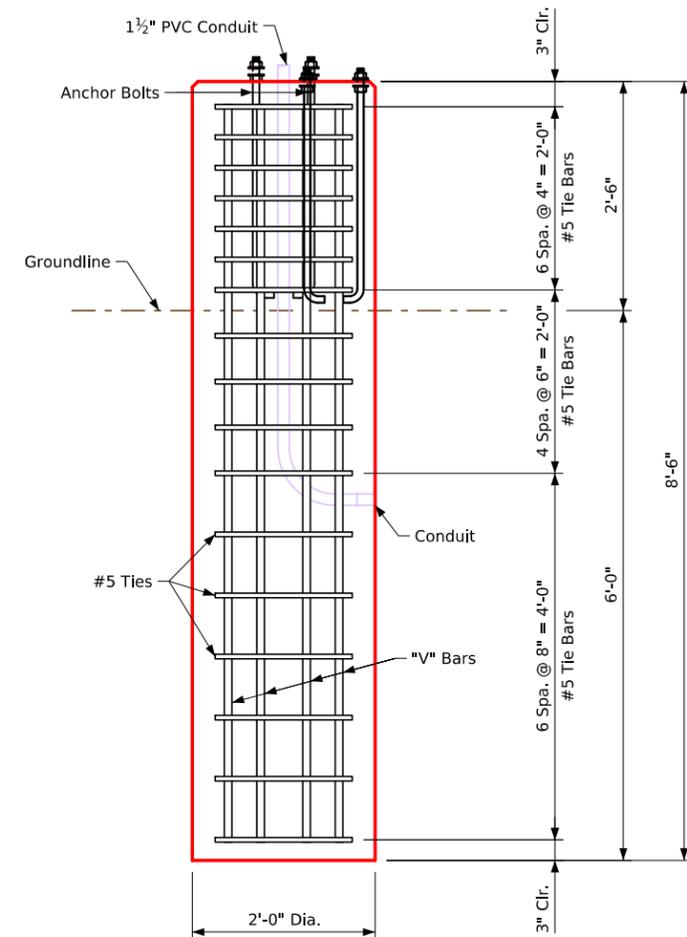
EXISTING FEATURES

-  POWER SOURCE
-  CABINET AND CONTROLLER
-  ① TRAFFIC SIGNAL POLE, FOOTING SYMBOL, AND IDENTIFYING NUMBER
-  ④ PEDESTAL POLE, FOOTING SYMBOL, AND IDENTIFYING NUMBER
-  64 TRAFFIC SIGNAL HEAD WITH BACKPLATE SYMBOL AND IDENTIFYING NUMBER
-  66 PEDESTRIAN HEAD SYMBOL AND IDENTIFYING NUMBER
-  601 PEDESTRIAN PUSHBUTTON IDENTIFYING NUMBER
-  C MAST ARM MOUNTED SIGN SYMBOL AND IDENTIFYING NUMBER
-  EMERGENCY VEHICLE PREEMPTION
-  LUMINAIRE
-  1 24" HANDHOLE (TYPE 1) SYMBOL AND IDENTIFYING NUMBER
-  4 30"X48" "TUB" HANDHOLE (TYPE 2) SYMBOL AND IDENTIFYING NUMBER
-  EXISTING SIGNAL CONDUIT

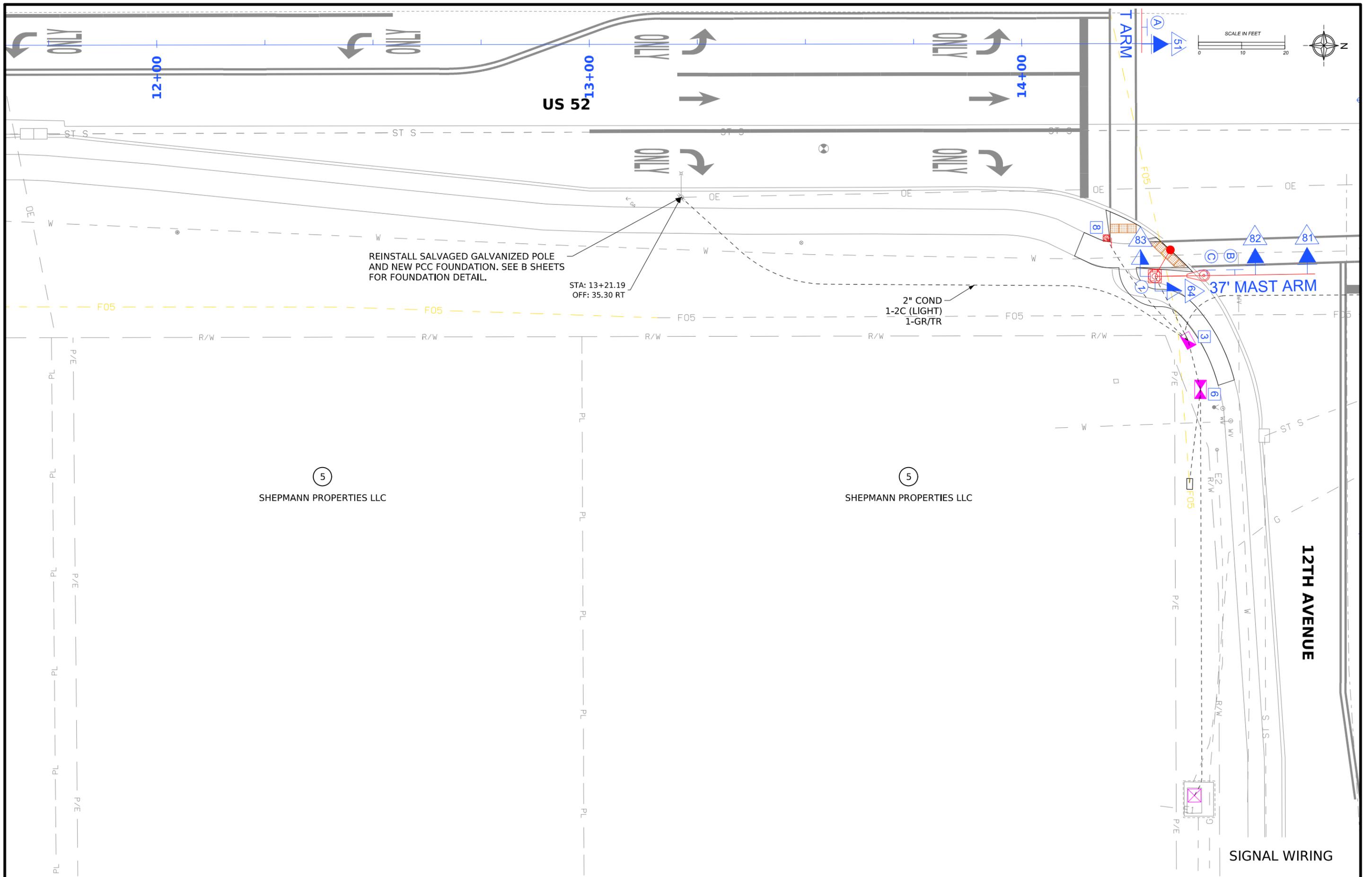
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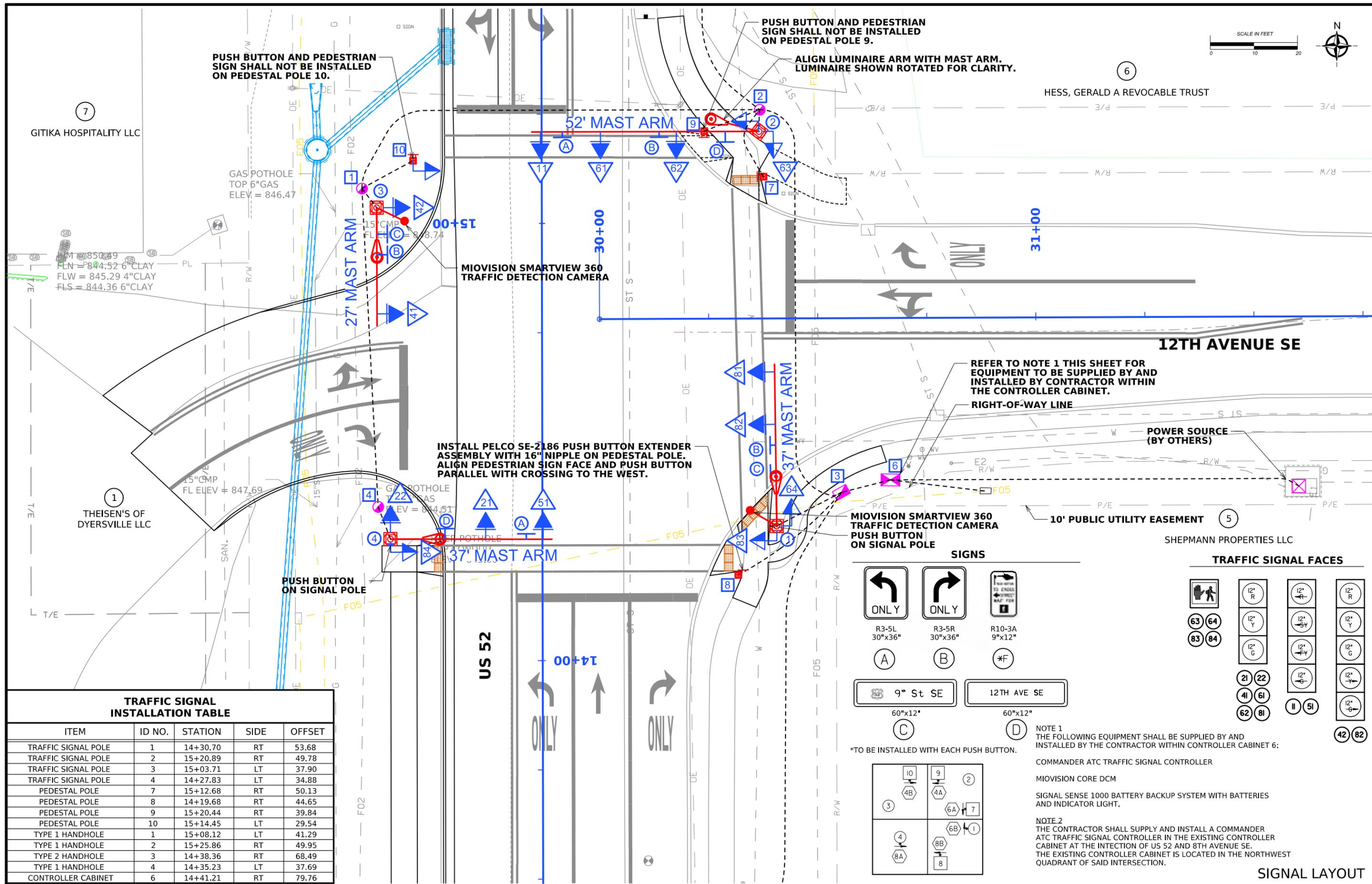
-  POWER SOURCE
-  CABINET AND CONTROLLER
-  ① TRAFFIC SIGNAL POLE, FOOTING SYMBOL, AND IDENTIFYING NUMBER
-  ④ PEDESTAL POLE, FOOTING SYMBOL, AND IDENTIFYING NUMBER
-  64 TRAFFIC SIGNAL HEAD WITH BACKPLATE SYMBOL AND IDENTIFYING NUMBER
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-  EMERGENCY VEHICLE PREEMPTION
-  LUMINAIRE
-  1 24" HANDHOLE (TYPE 1) SYMBOL AND IDENTIFYING NUMBER
-  4 30"X48" "TUB" HANDHOLE (TYPE 2) SYMBOL AND IDENTIFYING NUMBER
-  TRENCHED SIGNAL CONDUIT
-  SIGNAL CONDUIT BORED/JACKED
-  RADAR PRESENCE DETECTOR (RPD)
-  TRAFFIC MONITOR UNIT
-  TRAFFIC ADAPTIVE CAMERA
-  TEMPORARY OVERHEAD SIGNAL CABLE
-  TEMPORARY TRAFFIC SIGNAL POLE

| TRAFFIC SIGNAL ESTIMATE OF QUANTITIES |   |       |                |
|---------------------------------------|---|-------|----------------|
| Item                                  | Description   | Units | Total Quantity |
| 1                                     | Combination Signal and Lighting Pole, 27' Mast Arm, Installation Only               | EA    | 1              |
| 2                                     | Combination Signal and Lighting Pole, 37' Mast Arm, Installation Only               | EA    | 2              |
| 3                                     | Combination Signal and Lighting Pole, 52' Mast Arm, Installation Only               | EA    | 1              |
| 4                                     | Lighting Pole, Furnish and Install  | EA    | 1              |
| 5                                     | Pedestal Pole, Aluminum, 5.5', Furnish and Install                                  | EA    | 3              |
| 6                                     | Pedestal Pole, Aluminum, 10', Furnish and Install                                   | EA    | 1              |
| 7                                     | Pedestrian Pushbutton   | EA    | 4              |
| 8                                     | Traffic Signal Head - 12" R,Y,G With Backplate Mast Arm Mounted LED Modules         | EA    | 6              |
| 9                                     | Traffic Signal Head - 12" <R,<SY,<FY,<G With Backplate Mast Arm Mounted LED Modules | EA    | 2              |
| 10                                    | Traffic Signal Head - 12" R,Y,G,Y>,>G> With Backplate Mast Arm Mounted LED Modules  | EA    | 2              |
| 11                                    | Pedestrian Signal Head - 16" One Section Hand/Man/Countdown LED Signal              | EA    | 4              |
| 12                                    | Handhole - Type 1   | EA    | 3              |
| 13                                    | Handhole - Type 2   | EA    | 1              |
| 14                                    | Cable - 12C, #14 AWG, Signal Circuits   | LF    | 881            |
| 15                                    | Cable - 7C, #14 AWG, Signal Circuits  | LF    | 243            |
| 16                                    | Cable - 5C, #14 AWG, Signal Circuits  | LF    | 1557           |
| 17                                    | Cable - 2C, #14 AWG, Signal Circuits (PED PB)                                       | LF    | 1217           |
| 18                                    | Cable - 2C, #10 AWG, Street Lights  | LF    | 1111           |
| 19                                    | Cable - 1C, #4 AWG, Power   | LF    | 145            |
| 20                                    | Cable - 1C, #6 AWG, Bare Grounding Wire   | LF    | 1047           |
| 21                                    | Cable - 1C, #10 AWG Tracer Wire   | LF    | 1119           |
| 22                                    | Cable - CAT5E   | LF    | 409            |
| 23                                    | Pull Rope   | LF    | 1119           |
| 24                                    | 12-Single Mode Fiber Optic Cable  | LF    | 72             |
| 25                                    | Fiber Optic Terminations  | EA    |                |
| 26                                    | Fiber Optic Splices   | EA    |                |
| 27                                    | Splice Enclosure  | EA    | 1              |
| 28                                    | Conduit - 2 In. PVC-Trenched  | LF    | 536            |
| 29                                    | Conduit - 3 In. PVC-Trenched  | LF    | 36             |
| 30                                    | Conduit - 4 In. PVC-Trenched  | LF    | 24             |
| 31                                    | Conduit - 4 In. PVC-Trenchless  | LF    | 275            |
| 32                                    | Concrete Base - 2.0' X 4.0'   | EA    | 4              |
| 33                                    | Concrete Base - Light Pole  | EA    | 1              |
| 34                                    | Concrete Base - 3.0' X 12.0'  | EA    | 1              |
| 35                                    | Concrete Base - 3.0' X 14.0'  | EA    | 2              |
| 36                                    | Concrete Base - 3.0' X 16.0'  | EA    | 1              |
| 37                                    | Concrete Base - Controller Cabinet  | EA    | 1              |
| 38                                    | Traffic Sign, R3-5L 30"X36", Mast Arm Mounted                                       | EA    | 2              |
| 39                                    | Traffic Sign, R3-5R 30"X36", Mast Arm Mounted                                       | EA    | 3              |
| 40                                    | Street Name Sign, 60"X12", Mast Arm Mounted, Installation Only                      | EA    | 4              |
| 41                                    | Traffic Sign, R10-3A L, Pole Mounted  | EA    | 2              |
| 42                                    | Traffic Sign, R10-3A R, Pole Mounted  | EA    | 3              |
| 43                                    | Miovision Video Detection System, Furnish and Install                               | EA    | 1              |
| 44                                    | Controller Cabinet, Furnish and Install   | EA    | 1              |
| 45                                    | Controller Unit, Furnish and Install  | EA    | 2              |
| 46                                    | Battery Backup, Furnish and Install   | EA    | 1              |
| 47                                    | Remove and Reinstall Street Light   | EA    | 1              |
| 48                                    | Remove Concrete Footing   | EA    | 1              |
| 49                                    | Luminaire   | EA    | 5              |



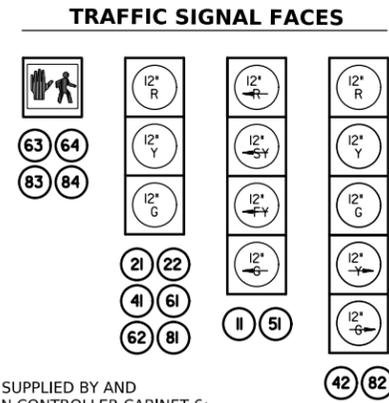
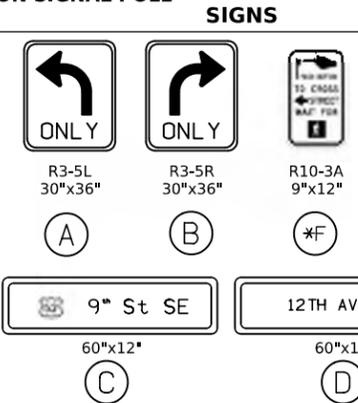
**Light Pole Base Detail**



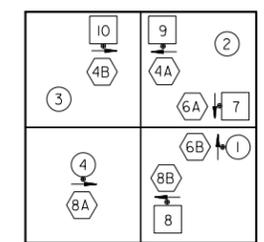


**TRAFFIC SIGNAL INSTALLATION TABLE**

| ITEM                | ID NO. | STATION  | SIDE | OFFSET |
|---------------------|--------|----------|------|--------|
| TRAFFIC SIGNAL POLE | 1      | 14+30.70 | RT   | 53.68  |
| TRAFFIC SIGNAL POLE | 2      | 15+20.89 | RT   | 49.78  |
| TRAFFIC SIGNAL POLE | 3      | 15+03.71 | LT   | 37.90  |
| TRAFFIC SIGNAL POLE | 4      | 14+27.83 | LT   | 34.88  |
| PEDESTAL POLE       | 7      | 15+12.68 | RT   | 50.13  |
| PEDESTAL POLE       | 8      | 14+19.68 | RT   | 44.65  |
| PEDESTAL POLE       | 9      | 15+20.44 | RT   | 39.84  |
| PEDESTAL POLE       | 10     | 15+14.45 | LT   | 29.54  |
| TYPE 1 HANDHOLE     | 1      | 15+08.12 | LT   | 41.29  |
| TYPE 1 HANDHOLE     | 2      | 15+25.86 | RT   | 49.95  |
| TYPE 2 HANDHOLE     | 3      | 14+38.36 | RT   | 68.49  |
| TYPE 1 HANDHOLE     | 4      | 14+35.23 | LT   | 37.69  |
| CONTROLLER CABINET  | 6      | 14+41.21 | RT   | 79.76  |



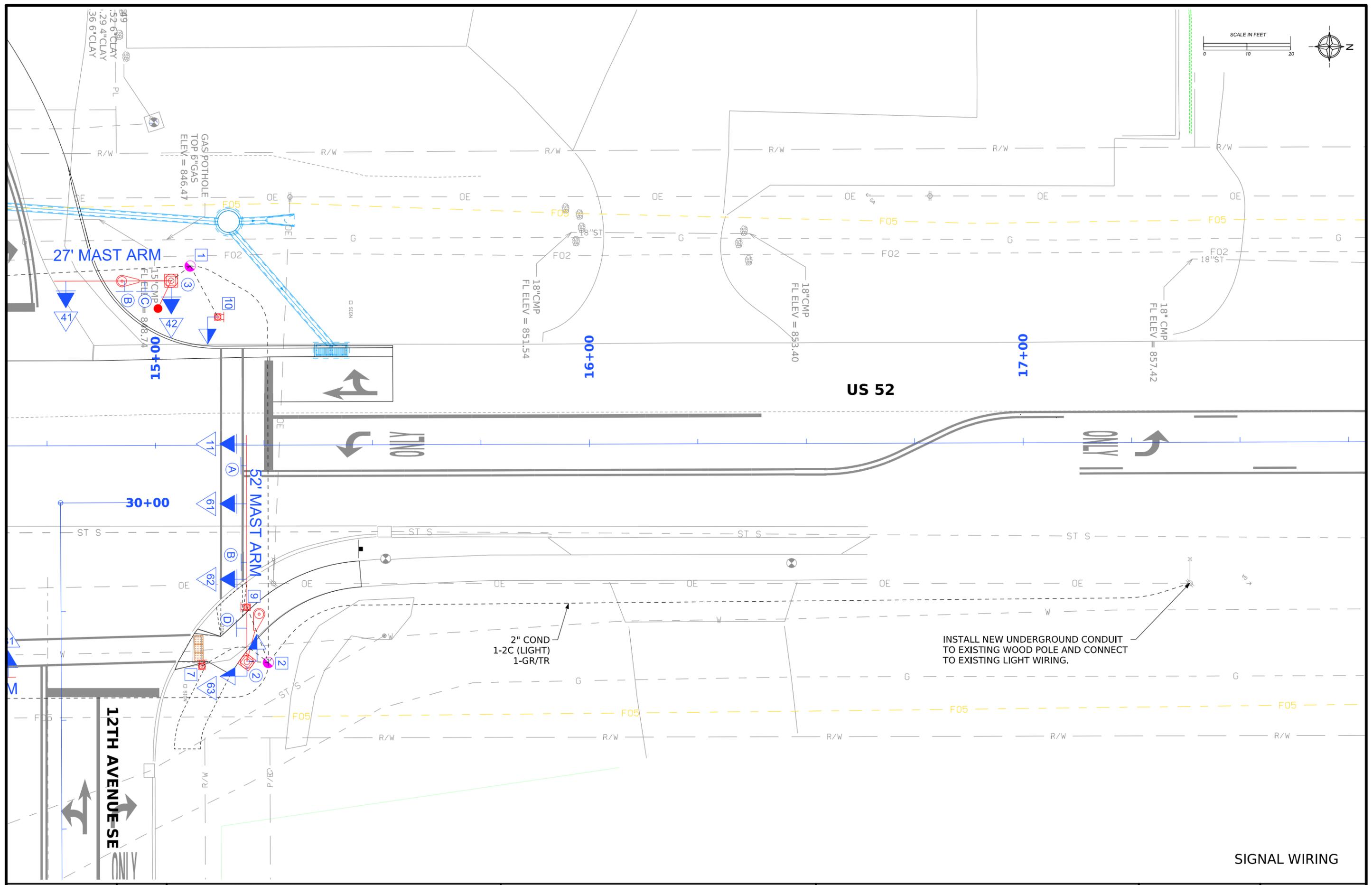
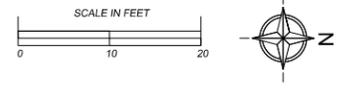
\*TO BE INSTALLED WITH EACH PUSH BUTTON.



**NOTE 1**  
THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED BY AND INSTALLED BY THE CONTRACTOR WITHIN CONTROLLER CABINET 6:  
COMMANDER ATC TRAFFIC SIGNAL CONTROLLER  
MIOVISION CORE DCM  
SIGNAL SENSE 1000 BATTERY BACKUP SYSTEM WITH BATTERIES AND INDICATOR LIGHT.

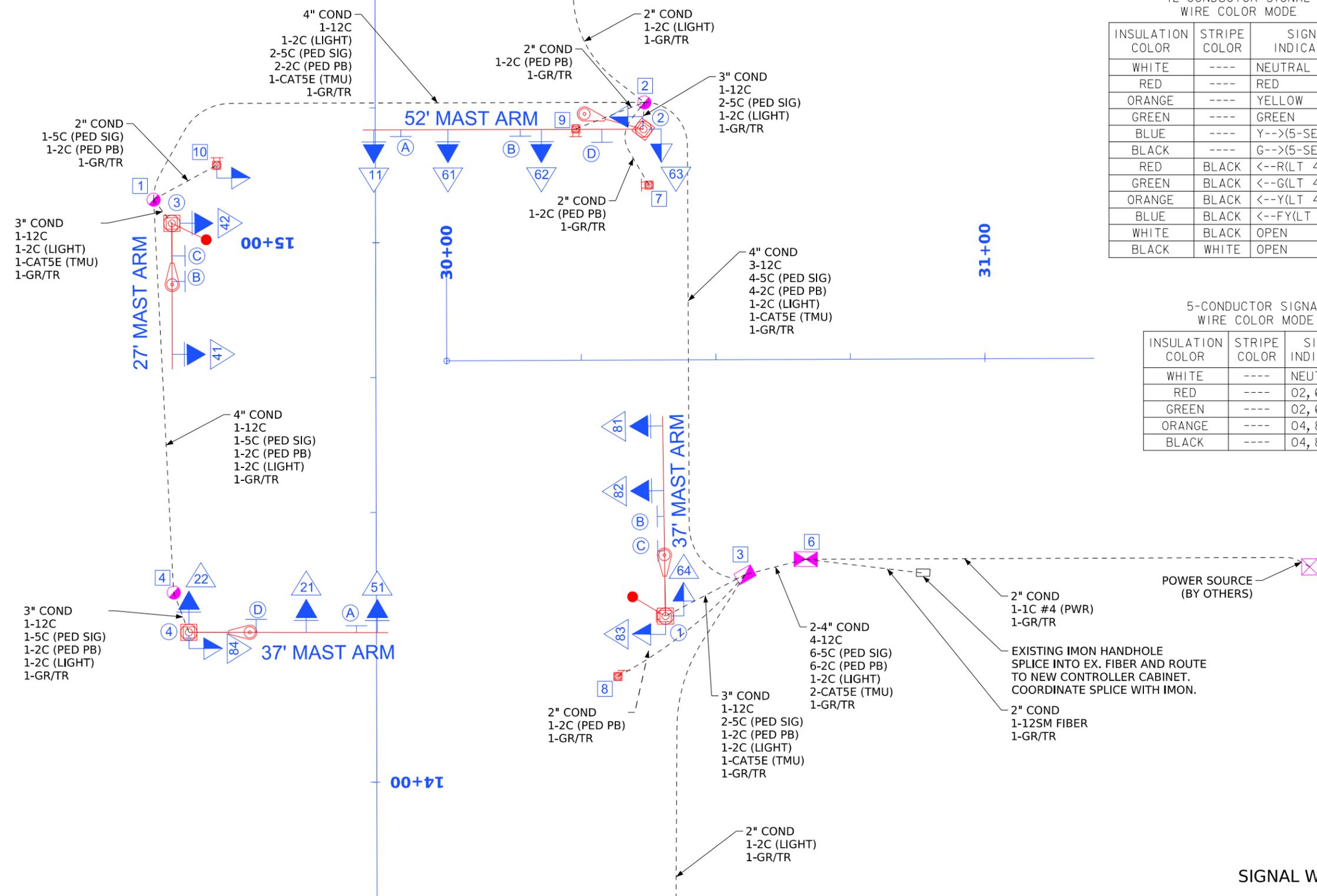
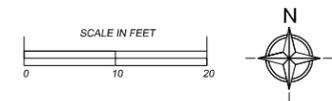
**NOTE 2**  
THE CONTRACTOR SHALL SUPPLY AND INSTALL A COMMANDER ATC TRAFFIC SIGNAL CONTROLLER IN THE EXISTING CONTROLLER CABINET AT THE INTERSECTION OF US 52 AND 8TH AVENUE SE. THE EXISTING CONTROLLER CABINET IS LOCATED IN THE NORTHWEST QUADRANT OF SAID INTERSECTION.

**SIGNAL LAYOUT**



**SIGNAL WIRING**

|          |         |             |                 |                |                |         |              |      |
|----------|---------|-------------|-----------------|----------------|----------------|---------|--------------|------|
| FILE NO. | ENGLISH | DESIGN TEAM | KIRKHAM MICHAEL | DUBUQUE COUNTY | PROJECT NUMBER | 2505625 | SHEET NUMBER | N.05 |
|----------|---------|-------------|-----------------|----------------|----------------|---------|--------------|------|



12-CONDUCTOR SIGNAL WIRE COLOR MODE

| INSULATION COLOR | STRIPE COLOR | SIGNAL INDICATION |
|------------------|--------------|-------------------|
| WHITE            | ----         | NEUTRAL           |
| RED              | ----         | RED               |
| ORANGE           | ----         | YELLOW            |
| GREEN            | ----         | GREEN             |
| BLUE             | ----         | Y-->(5-SEC)       |
| BLACK            | ----         | G-->(5-SEC)       |
| RED              | BLACK        | <--R(LT 4 SEC)    |
| GREEN            | BLACK        | <--G(LT 4 SEC)    |
| ORANGE           | BLACK        | <--Y(LT 4 SEC)    |
| BLUE             | BLACK        | <--FY(LT 4 SEC)   |
| WHITE            | BLACK        | OPEN              |
| BLACK            | WHITE        | OPEN              |

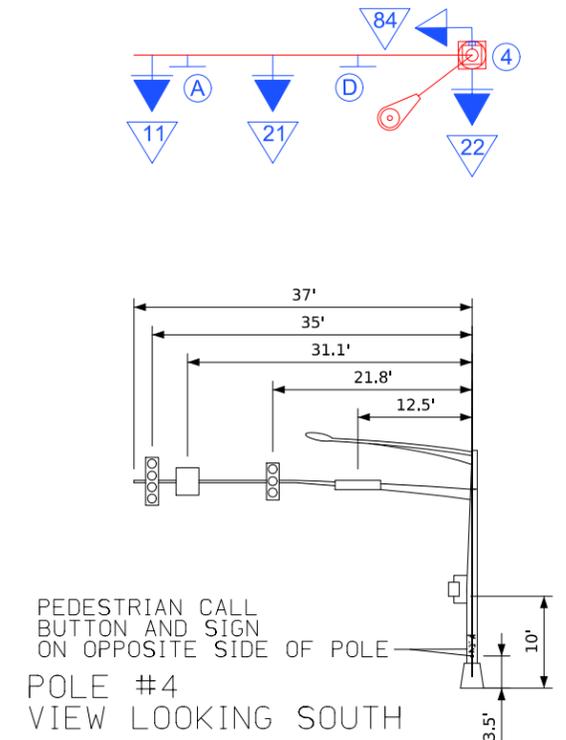
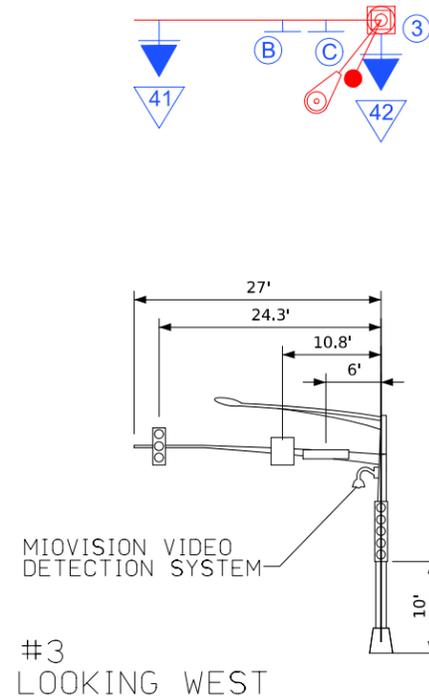
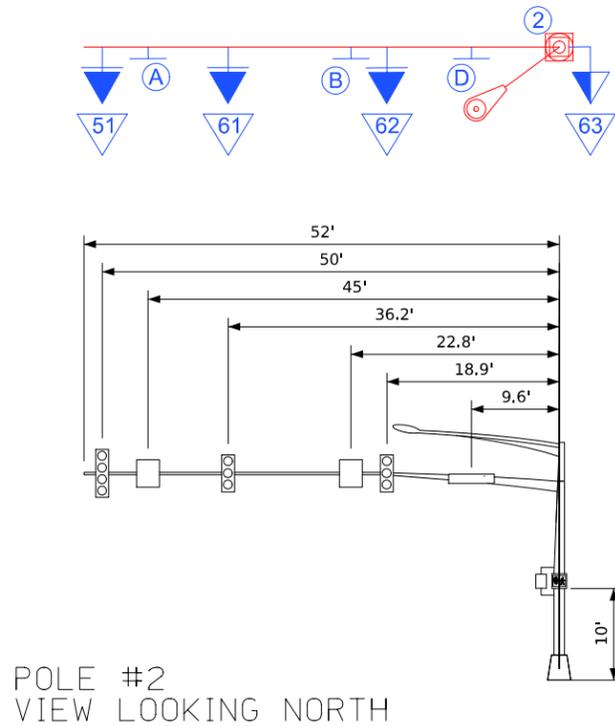
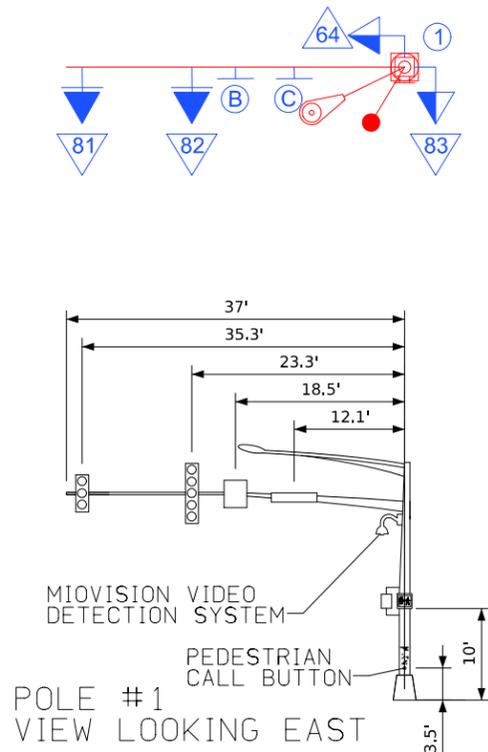
5-CONDUCTOR SIGNAL WIRE COLOR MODE

| INSULATION COLOR | STRIPE COLOR | SIGNAL INDICATION |
|------------------|--------------|-------------------|
| WHITE            | ----         | NEUTRAL           |
| RED              | ----         | 02, 6 DW          |
| GREEN            | ----         | 02, 6 W           |
| ORANGE           | ----         | 04, 8 DW          |
| BLACK            | ----         | 04, 8 W           |

POWER SOURCE (BY OTHERS)

EXISTING IMON HANDHOLE SPLICE INTO EX. FIBER AND ROUTE TO NEW CONTROLLER CABINET. COORDINATE SPLICE WITH IMON.

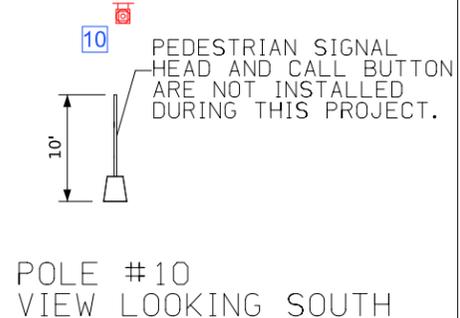
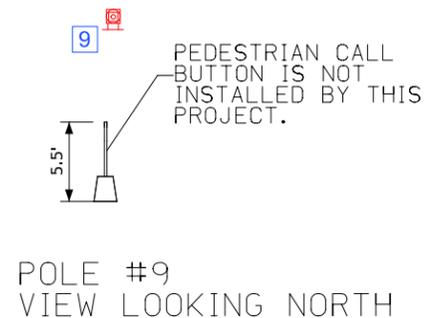
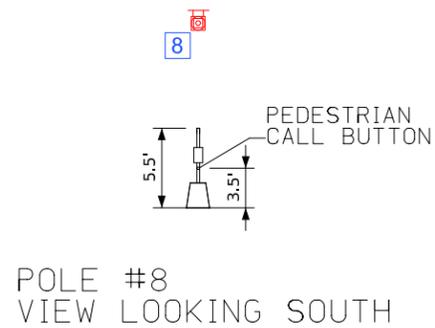
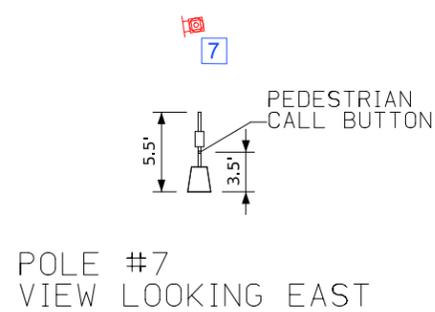
SIGNAL WIRING



US 52 AND 12TH AVENUE  
TRAFFIC SIGNAL POLE SCHEDULE

| POLE NO. | POLE TYPE                | MASTARM LENGTH OR PEDESTAL HEIGHT (FT.) | TRAFFIC SIGNAL HEADS |                          | TRAFFIC SIGNS (2) |                     | LUMINARE ARMS (3) |                       |                       | FOOTING DIMENSIONS |             |
|----------|--------------------------|---|----------------------|--------------------------|-------------------|---------------------|-------------------|-----------------------|-----------------------|--------------------|-------------|
|          |                          |   | QTY.                 | LOCATION ON MASTARM/POST | QTY.              | LOCATION ON MASTARM | SPREAD (FT.)      | MOUNTING HEIGHT (FT.) | ORIENTATION (DEGREES) | DIA. (IN.)         | DEPTH (FT.) |
| 1        | SIGNAL AND LIGHTING POLE | 37                                      | 2                    | 23.3, 35.3               | 2                 | 12.1, 18.5          | 15                | 35.0                  | 0                     | 36                 | 14.0        |
| 2        | SIGNAL AND LIGHTING POLE | 52                                      | 3                    | 18.9, 36.2, 50.0'        | 3                 | 9.6, 22.8, 45.0     | 15                | 35.0                  | 0                     | 36                 | 16.0        |
| 3        | SIGNAL AND LIGHTING POLE | 27                                      | 1                    | 24.3                     | 2                 | 6.0, 10.8           | 15                | 35.0                  | 0                     | 36                 | 12.0        |
| 4        | SIGNAL AND LIGHTING POLE | 37                                      | 2                    | 21.8, 35.0               | 2                 | 12.5, 31.1          | 15                | 35.0                  | 0                     | 36                 | 14.0        |
| 7        | PUSHBUTTON PEDESTAL POLE | 5.5                                     |                      |                          |                   |                     |                   |                       |                       | 24                 | 4.0         |
| 8        | PUSHBUTTON PEDESTAL POLE | 5.5                                     |                      |                          |                   |                     |                   |                       |                       | 24                 | 4.0         |
| 9        | PUSHBUTTON PEDESTAL POLE | 5.5                                     |                      |                          |                   |                     |                   |                       |                       |                    |             |
| 10       | PUSHBUTTON PEDESTAL POLE | 10                                      |                      |                          |                   |                     |                   |                       |                       |                    |             |

(1)(2) LOCATION IS DISTANCE FROM POLE MEASURED OUT TO THE END OF THE ARM.



SIGNAL INFORMATION

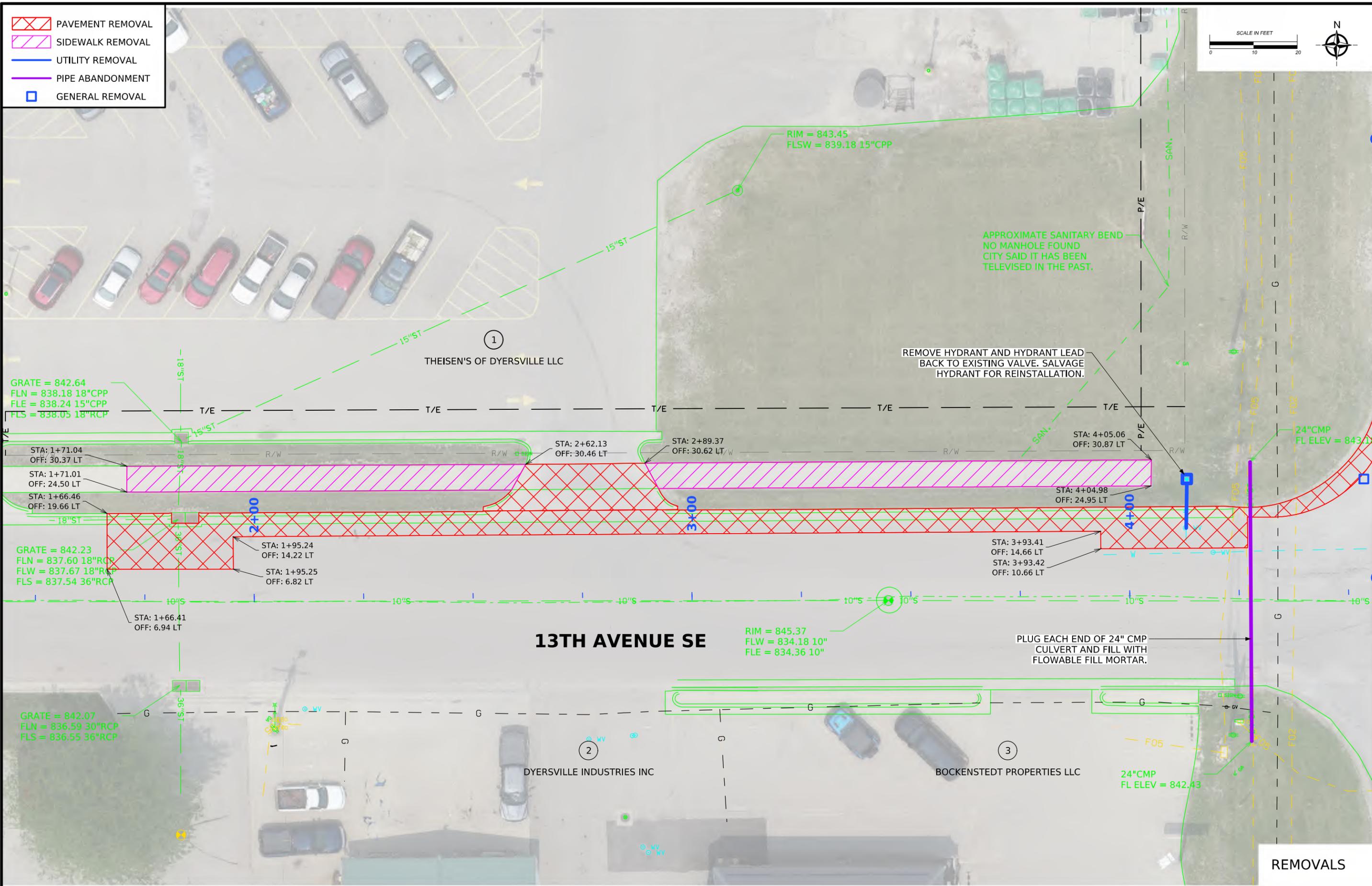
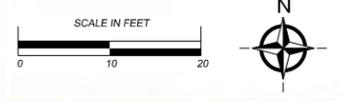
| Phase Number | 1+5 |     |     |    | 1+6 |      |     |      | 2+5 |     |     |     | 2+6 |      | 4+8 |      |
|--------------|-----|-----|-----|----|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----|------|
|              | R/W | 1+6 | 2+5 | AO | R/W | 1+5  | 2+6 | AO   | R/W | 1+5 | 2+6 | AO  | R/W | AO   | R/W | AO   |
| 11           | G   | G   | Y   | Y  | G   | G    | Y   | Y    | R   | R   | R   | R   | FY  | Y    | R   | R    |
| 61           | R   | R   | R   | R  | G   | G/Y  | G   | G/Y  | R   | R   | R   | R   | G   | G/Y  | R   | R    |
| 62           | R   | R   | R   | R  | G   | G/Y  | G   | G/Y  | R   | R   | R   | R   | G   | G/Y  | R   | R    |
| 63,64        | DW  | DW  | DW  | DW | W   | F/DW | W   | F/DW | DW  | DW  | DW  | DW  | W   | F/DW | DW  | DW   |
| 51           | G   | Y   | G   | Y  | R   | R    | R   | R    | G   | G   | Y   | Y   | FY  | Y    | R   | R    |
| 21,22        | R   | R   | R   | R  | R   | R    | R   | R    | G   | G/Y | G   | G/Y | G   | G/Y  | R   | R    |
| 81,82        | R   | R   | R   | R  | R   | R    | R   | R    | R   | R   | R   | R   | R   | R    | G   | G/Y  |
| 83,84        | DW  | DW  | DW  | DW | DW  | DW   | DW  | DW   | DW  | DW  | DW  | DW  | DW  | DW   | W   | F/DW |
| 41,42        | R   | R   | R   | R  | R   | R    | R   | R    | R   | R   | R   | R   | R   | R    | G   | G/Y  |
| 43,44        | DW  | DW  | DW  | DW | DW  | DW   | DW  | DW   | DW  | DW  | DW  | DW  | DW  | DW   | W   | F/DW |

G GREEN  
 Y YELLOW  
 R RED  
 FY FLASH YELLOW  
 R+GA RED + GREEN ARROW  
 R+YA RED + YELLOW ARROW  
 FR FLASH RED  
 W WALK  
 F/DW FLASH DON'T WALK --> DON'T WALK  
 DW DON'T WALK

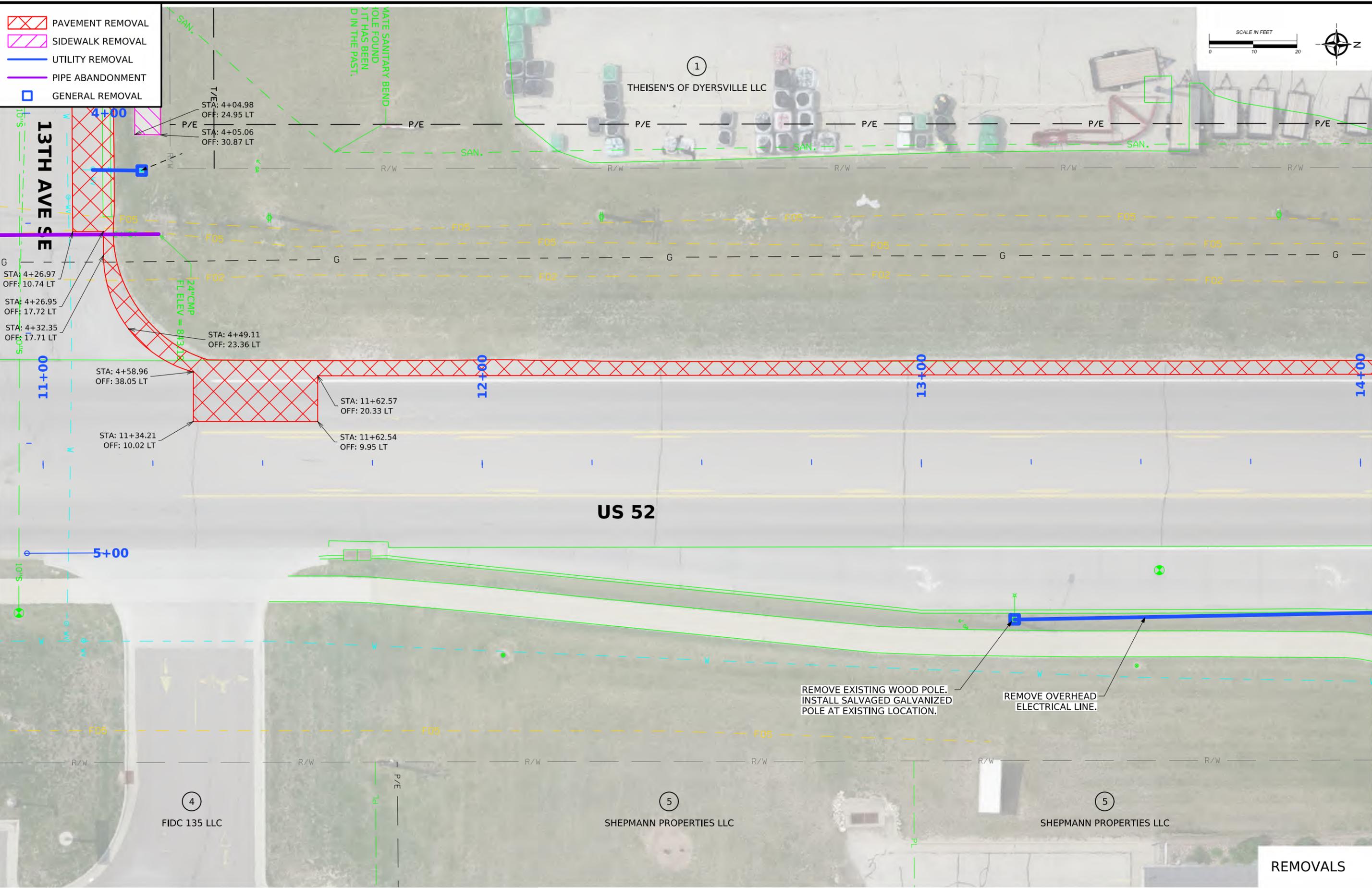
| INITIAL RECOMMENDED TIMING (SECONDS) |       |      |      |      |      |      |
|--------------------------------------|-------|------|------|------|------|------|
|                                      | PHASE |      |      |      |      |      |
|                                      | 1     | 6    | 5    | 2    | 4    | 8    |
| MIN GREEN                            | 5.0   | 10.0 | 5.0  | 10.0 | 10.0 | 10.0 |
| VEHICLE EXT                          | 3.0   | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| MAXIMUM GREEN                        | 60.0  | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| AMBER                                | 4.0   | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  |
| ALL RED                              | 2.0   | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  |
| WALK                                 |       | 5.0  |      | 5.0  |      | 5.0  |
| PEDESTRIAN CLEARANCE                 |       | 10.0 |      | 10.0 |      | 10.0 |

SIGNAL PHASING

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- UTILITY REMOVAL
- PIPE ABANDONMENT
- GENERAL REMOVAL

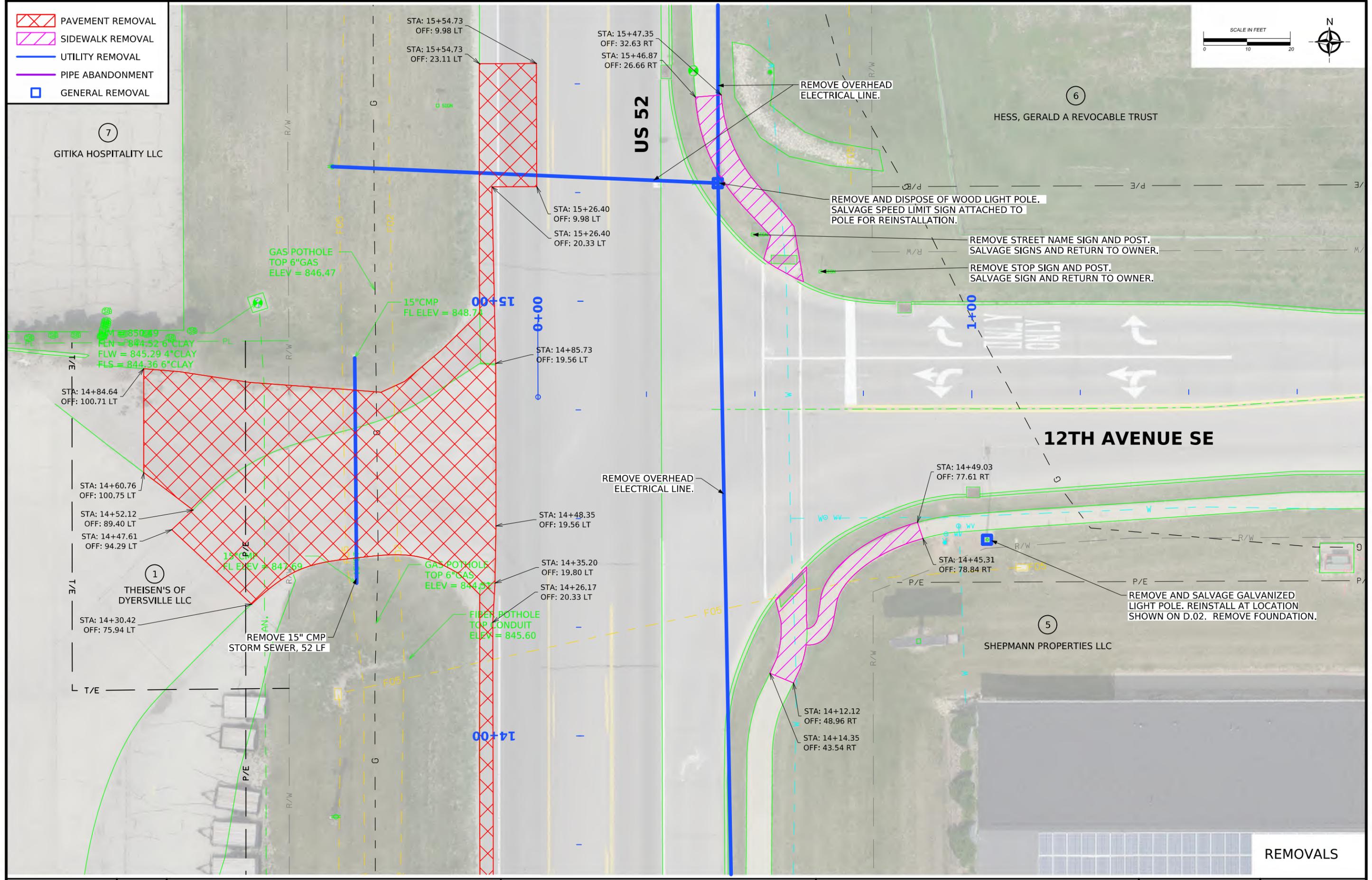
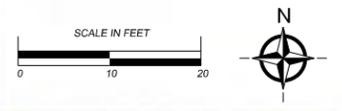


**REMOVALS**

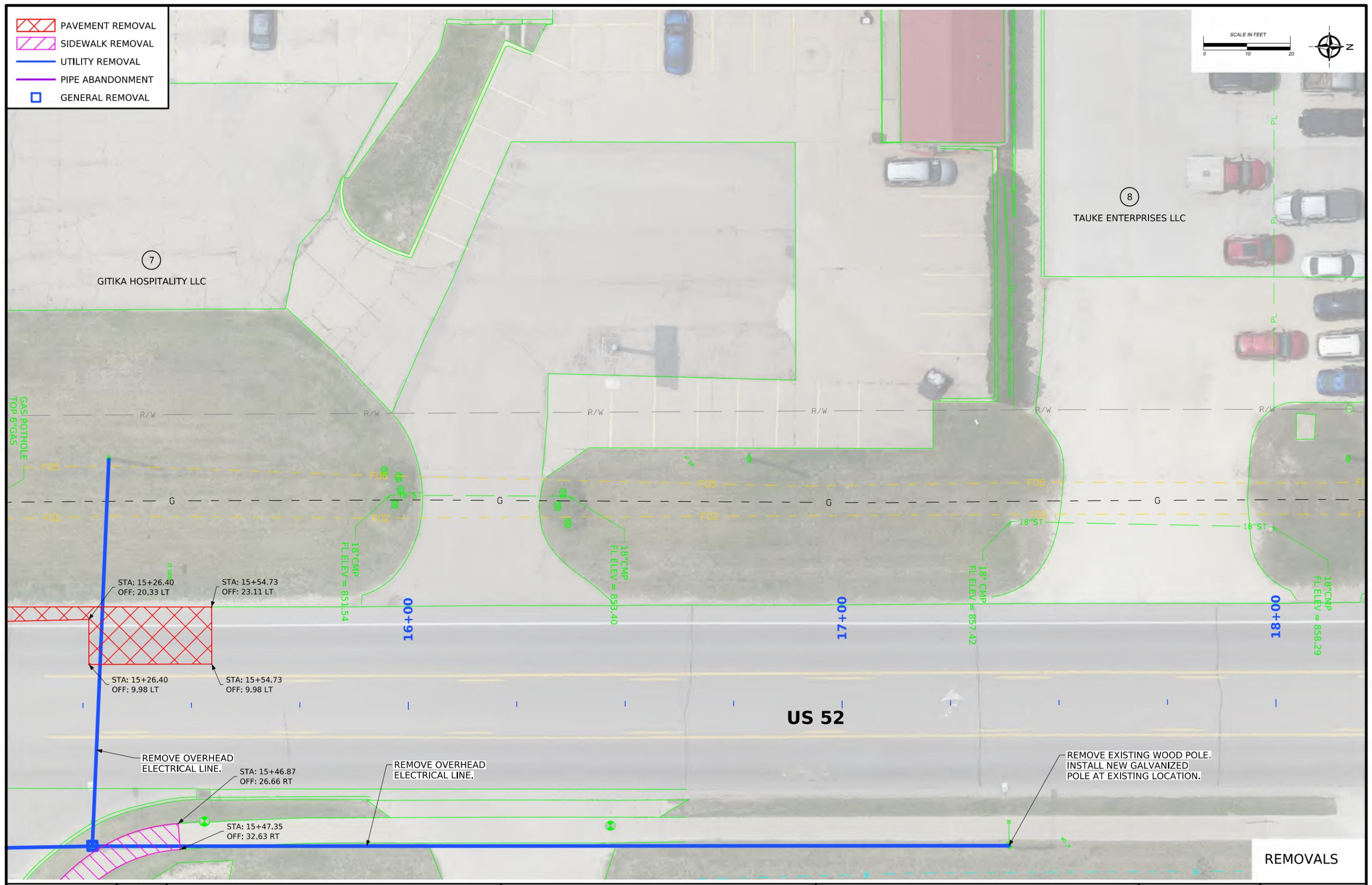
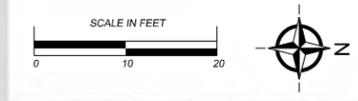


**REMOVALS**

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- UTILITY REMOVAL
- PIPE ABANDONMENT
- GENERAL REMOVAL



-  PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  UTILITY REMOVAL
-  PIPE ABANDONMENT
-  GENERAL REMOVAL



7  
GITIKA HOSPITALITY LLC

8  
TAUKE ENTERPRISES LLC

US 52

REMOVALS

STA: 15+26.40  
OFF: 20.33 LT

STA: 15+54.73  
OFF: 23.11 LT

STA: 15+26.40  
OFF: 9.98 LT

STA: 15+54.73  
OFF: 9.98 LT

REMOVE OVERHEAD  
ELECTRICAL LINE.

STA: 15+46.87  
OFF: 26.66 RT

STA: 15+47.35  
OFF: 32.63 RT

REMOVE OVERHEAD  
ELECTRICAL LINE.

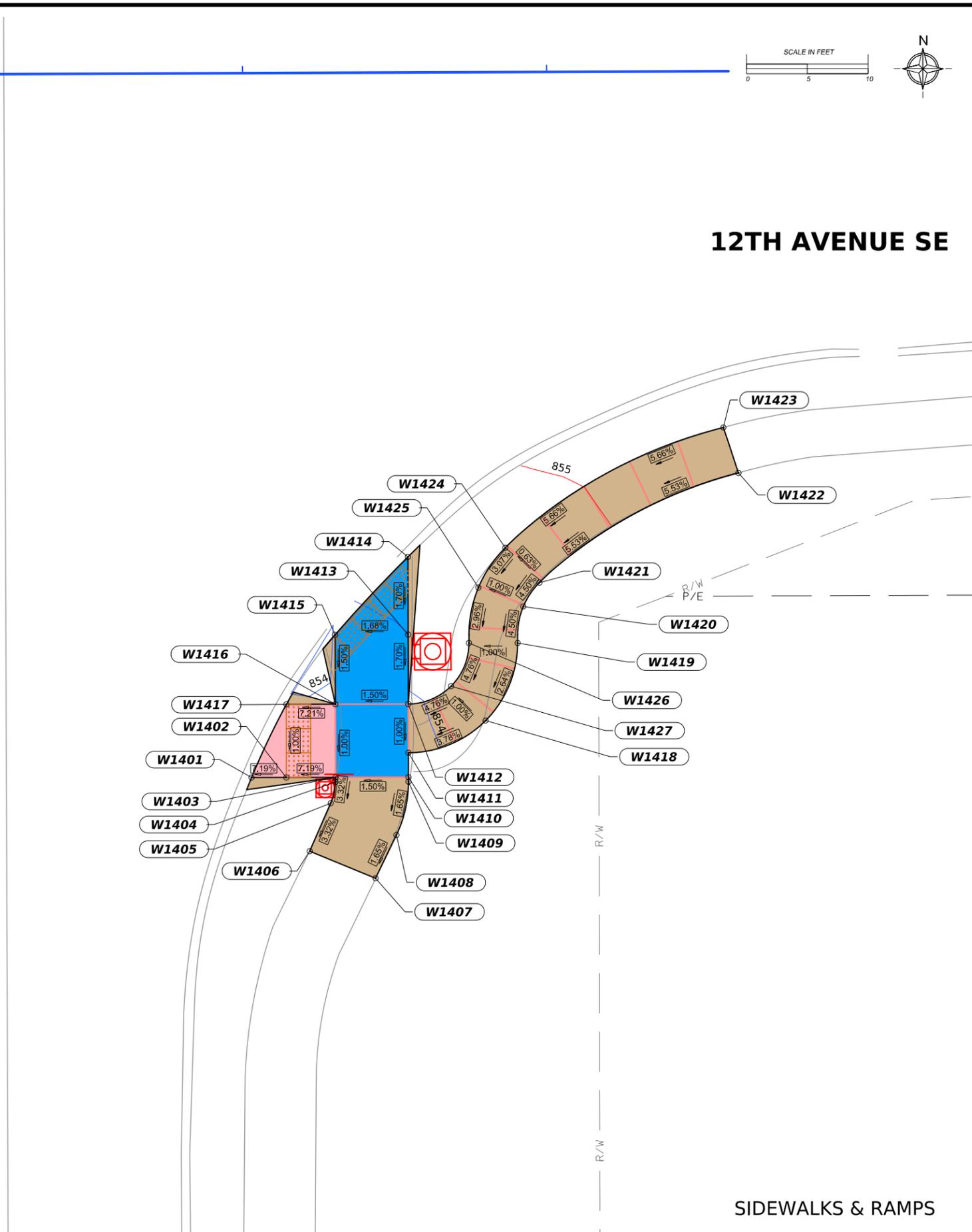
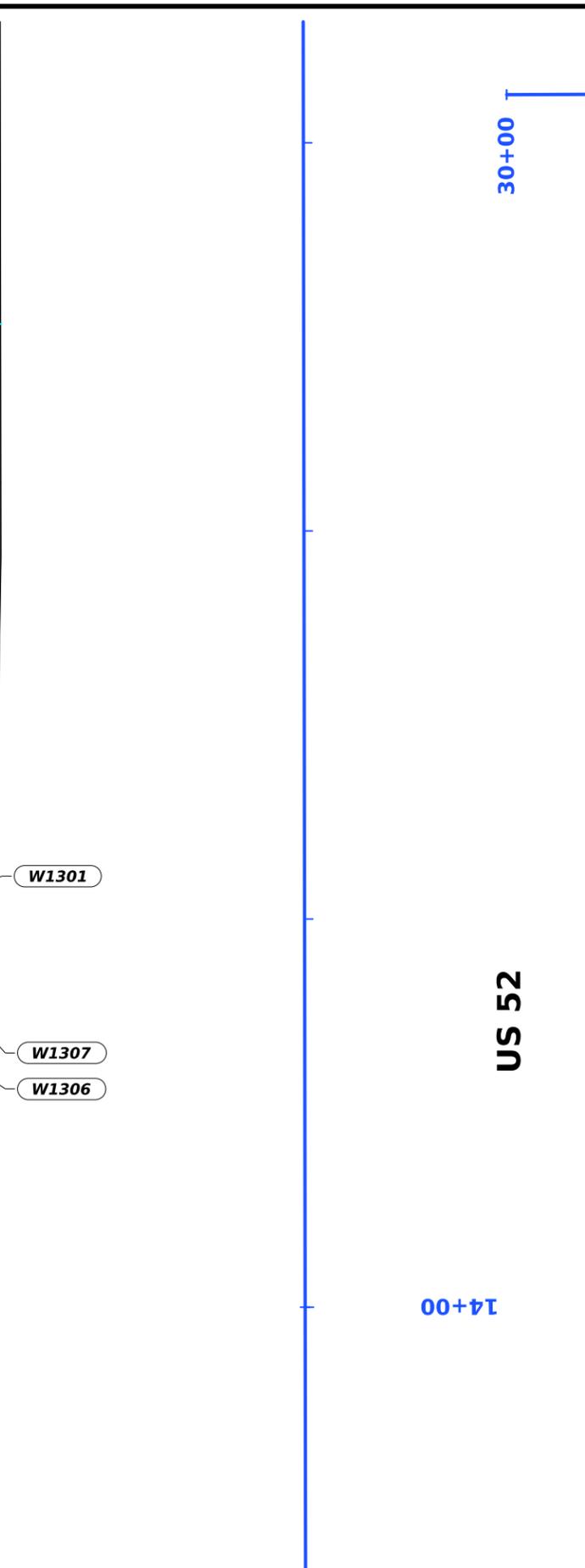
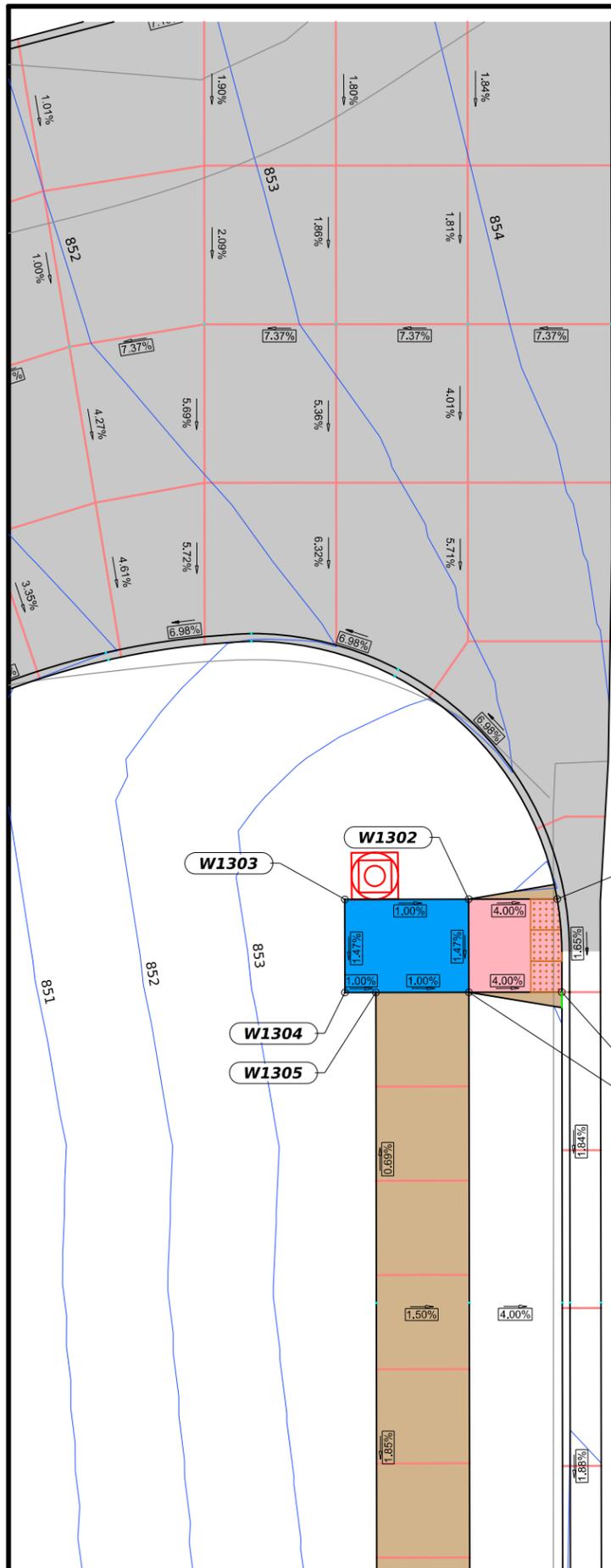
REMOVE EXISTING WOOD POLE.  
INSTALL NEW GALVANIZED  
POLE AT EXISTING LOCATION.

18" CMP  
FL ELEV = 851.54

18" CMP  
FL ELEV = 853.40

18" CMP  
FL ELEV = 857.42

18" CMP  
FL ELEV = 858.29



**12TH AVENUE SE**

**SIDEWALKS & RAMPS**



113\_10A  
6/18/25

**SIDEWALK COMPLIANCE VALUES**

FOR INFORMATION ONLY. VALUES USED TO DETERMINE DESIGNED SLOPES. SEE TAB 113-10.

| Line No. | Point | Station  | Offset | Elevation |
|----------|-------|----------|--------|-----------|
| 1.0      | W1101 | 15+05.07 | 49.71  | 855.05    |
| 2.0      | W1102 | 15+08.84 | 49.69  | 855.09    |
| 3.0      | W1103 | 15+11.89 | 49.68  | 855.12    |
| 4.0      | W1104 | 15+17.14 | 52.71  | 855.19    |
| 5.0      | W1105 | 15+20.25 | 48.1   | 855.23    |
| 6.0      | W1106 | 15+14.87 | 43.91  | 855.15    |
| 7.0      | W1107 | 15+08.82 | 43.18  | 855.04    |
| 8.0      | W1108 | 15+19.94 | 39.34  | 855.24    |
| 9.0      | W1109 | 15+40.91 | 27.48  | 856.28    |
| 10.0     | W1110 | 15+46.87 | 26.66  | 856.54    |
| 11.0     | W1111 | 15+47.35 | 32.63  | 856.60    |
| 12.0     | W1112 | 15+42.17 | 33.34  | 856.34    |
| 13.0     | W1113 | 15+24.32 | 43.44  | 855.33    |
| 14.0     | W1301 | 14+26.33 | -23.11 | 853.64    |
| 15.0     | W1302 | 14+26.33 | -28.83 | 853.87    |
| 16.0     | W1303 | 14+26.32 | -36.83 | 853.95    |
| 17.0     | W1304 | 14+20.33 | -36.83 | 853.86    |
| 18.0     | W1305 | 14+20.33 | -34.83 | 853.84    |
| 19.0     | W1306 | 14+20.33 | -28.83 | 853.78    |
| 20.0     | W1307 | 14+20.33 | -22.83 | 853.54    |
| 21.0     | W1401 | 14+20.39 | 38.77  | 853.29    |
| 22.0     | W1402 | 14+20.40 | 41.64  | 853.50    |
| 23.0     | W1403 | 14+20.40 | 45.67  | 853.79    |
| 24.0     | W1404 | 14+20.03 | 45.67  | 853.78    |
| 25.0     | W1405 | 14+18.28 | 45.27  | 853.72    |
| 26.0     | W1406 | 14+14.35 | 43.54  | 853.57    |
| 27.0     | W1407 | 14+12.12 | 48.96  | 853.73    |
| 28.0     | W1408 | 14+15.67 | 50.67  | 853.80    |
| 29.0     | W1409 | 14+20.03 | 51.67  | 853.87    |
| 30.0     | W1410 | 14+20.41 | 51.67  | 853.88    |
| 31.0     | W1411 | 14+22.40 | 51.67  | 853.90    |
| 32.0     | W1412 | 14+26.43 | 51.67  | 853.94    |
| 33.0     | W1413 | 14+32.09 | 51.66  | 854.04    |
| 34.0     | W1414 | 14+38.46 | 51.65  | 854.14    |
| 35.0     | W1415 | 14+32.09 | 45.66  | 853.93    |
| 36.0     | W1416 | 14+26.40 | 45.67  | 853.85    |
| 37.0     | W1417 | 14+26.40 | 41.65  | 853.57    |
| 38.0     | W1418 | 14+25.04 | 58.02  | 854.17    |
| 39.0     | W1419 | 14+31.39 | 60.66  | 854.35    |
| 40.0     | W1420 | 14+34.38 | 61.13  | 854.49    |
| 41.0     | W1421 | 14+36.34 | 62.46  | 854.60    |
| 42.0     | W1422 | 14+45.31 | 78.84  | 855.63    |
| 43.0     | W1423 | 14+49.03 | 77.61  | 855.71    |
| 44.0     | W1424 | 14+39.20 | 59.66  | 854.57    |
| 45.0     | W1425 | 14+35.94 | 57.45  | 854.45    |
| 46.0     | W1426 | 14+31.40 | 56.66  | 854.31    |
| 47.0     | W1427 | 14+27.87 | 55.20  | 854.13    |

### SIDEWALK COMPLIANCE

See 5 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.
3. See Tab 113-10A for point location information.

| Roadway Identification | From Point | Ending Point | Sidewalk Designation                       | Sidewalk Thickness (IN) | Distance* (FT) | Change in Elevation (FT) | Slope (%) | Acceptable Constructed Range | Staking Required? (1) | Measured Slope (%) | Initials | Remarks |
|------------------------|------------|--------------|--|-------------------------|----------------|--------------------------|-----------|------------------------------|-----------------------|--------------------|----------|---------|
| US 52                  | W1101      | W1102        | Landing/Turning Space                      | 6                       | 3.77           | 0.04                     | 1.1       |                              | YES                   |                    |          |         |
| US 52                  | W1102      | W1103        | Landing/Turning Space                      | 6                       | 3.05           | 0.03                     | 1.0       |                              | YES                   |                    |          |         |
| US 52                  | W1103      | W1104        | Landing/Turning Space                      | 6                       | 6.06           | 0.07                     | 1.2       |                              | YES                   |                    |          |         |
| US 52                  | W1104      | W1105        | Landing/Turning Space                      | 6                       | 5.56           | 0.04                     | 0.7       |                              | YES                   |                    |          |         |
| US 52                  | W1105      | W1106        | Landing/Turning Space                      | 6                       | 6.82           | -0.08                    | -1.2      |                              | YES                   |                    |          |         |
| US 52                  | W1106      | W1107        | Landing/Turning Space                      | 6                       | 6.10           | -0.11                    | -1.8      |                              | YES                   |                    |          |         |
| US 52                  | W1107      | W1101        | Crosswalk Cross Slope - No Yield Condition | 6                       | 7.52           | 0.01                     | 0.1       |                              | YES                   |                    |          |         |
| US 52                  | W1108      | W1109        | Sidewalk Running Slope                     | 6                       | 24.47          | 1.04                     | 4.3       |                              | YES                   |                    |          |         |
| US 52                  | W1109      | W1110        | Sidewalk Running Slope                     | 6                       | 6.01           | 0.26                     | 4.3       |                              | YES                   |                    |          |         |
| US 52                  | W1110      | W1111        | Sidewalk Cross Slope                       | 6                       | 5.99           | 0.06                     | 1.0       |                              | YES                   |                    |          |         |
| US 52                  | W1111      | W1112        | Sidewalk Running Slope                     | 6                       | 5.23           | -0.26                    | -5.0      |                              | YES                   |                    |          |         |
| US 52                  | W1112      | W1113        | Sidewalk Running Slope                     | 6                       | 20.82          | -1.01                    | -4.9      |                              | YES                   |                    |          |         |
| US 52                  | W1113      | W1105        | Landing/Turning Space                      | 6                       | 6.20           | -0.10                    | -1.6      |                              | YES                   |                    |          |         |
| US 52                  | W1103      | W1106        | Landing/Turning Space                      | 6                       | 6.49           | 0.03                     | 0.5       |                              | YES                   |                    |          |         |
| US 52                  | W1106      | W1108        | Landing/Turning Space                      | 6                       | 6.83           | 0.09                     | 1.3       |                              | YES                   |                    |          |         |
| US 52                  | W1108      | W1113        | Landing/Turning Space                      | 6                       | 6.00           | 0.09                     | 1.5       |                              | YES                   |                    |          |         |
| US 52                  | W1301      | W1302        | Ramp Running Slope                         | 6                       | 5.71           | 0.23                     | 4.0       |                              | YES                   |                    |          |         |
| US 52                  | W1302      | W1303        | Landing/Turning Space                      | 6                       | 8.00           | 0.08                     | 1.0       |                              | YES                   |                    |          |         |
| US 52                  | W1303      | W1304        | Landing/Turning Space                      | 6                       | 6.00           | -0.09                    | -1.5      |                              | YES                   |                    |          |         |
| US 52                  | W1304      | W1305        | Landing/Turning Space                      | 6                       | 2.00           | -0.02                    | -1.0      |                              | YES                   |                    |          |         |
| US 52                  | W1305      | W1306        | Landing/Turning Space                      | 6                       | 6.00           | -0.06                    | -1.0      |                              | YES                   |                    |          |         |
| US 52                  | W1306      | W1307        | Ramp Running Slope                         | 6                       | 6.00           | -0.24                    | -4.0      |                              | YES                   |                    |          |         |
| US 52                  | W1307      | W1301        | Crosswalk Cross Slope - No Yield Condition | 6                       | 6.02           | 0.10                     | 1.7       |                              | YES                   |                    |          |         |
| US 52                  | W1302      | W1306        | Landing/Turning Space                      | 6                       | 6.00           | -0.09                    | -1.5      |                              | YES                   |                    |          |         |
| US 52                  | W1401      | W1402        | Ramp Running Slope                         | 6                       | 2.87           | 0.21                     | 7.3       |                              | YES                   |                    |          |         |
| US 52                  | W1402      | W1403        | Ramp Running Slope                         | 6                       | 4.03           | 0.29                     | 7.2       |                              | YES                   |                    |          |         |
| US 52                  | W1403      | W1404        | Sidewalk Running Slope                     | 6                       | 0.37           | -0.01                    | -2.7      |                              | YES                   |                    |          |         |
| US 52                  | W1404      | W1405        | Sidewalk Running Slope                     | 6                       | 1.80           | -0.06                    | -3.3      |                              | YES                   |                    |          |         |
| US 52                  | W1405      | W1406        | Sidewalk Running Slope                     | 6                       | 4.29           | -0.15                    | -3.5      |                              | YES                   |                    |          |         |
| US 52                  | W1406      | W1407        | Sidewalk Cross Slope                       | 6                       | 5.85           | 0.16                     | 2.7       |                              | YES                   |                    |          |         |
| US 52                  | W1407      | W1408        | Sidewalk Running Slope                     | 6                       | 3.94           | 0.07                     | 1.8       |                              | YES                   |                    |          |         |
| US 52                  | W1408      | W1409        | Sidewalk Running Slope                     | 6                       | 4.52           | 0.07                     | 1.5       |                              | Y                     |                    |          |         |
| US 52                  | W1409      | W1410        | Sidewalk Running Slope                     | 6                       | 0.37           | 0.01                     | 2.7       |                              | YES                   |                    |          |         |
| US 52                  | W1410      | W1411        | Landing/Turning Space                      | 6                       | 2.00           | 0.02                     | 1.0       |                              | YES                   |                    |          |         |
| US 52                  | W1411      | W1412        | Landing/Turning Space                      | 6                       | 4.00           | 0.04                     | 1.0       |                              | YES                   |                    |          |         |
| US 52                  | W1412      | W1413        | Landing/Turning Space                      | 6                       | 5.69           | 0.10                     | 1.8       |                              | YES                   |                    |          |         |
| US 52                  | W1413      | W1414        | Landing/Turning Space                      | 6                       | 6.37           | 0.10                     | 1.6       |                              | YES                   |                    |          |         |
| US 52                  | W1414      | W1415        | Landing/Turning Space                      | 6                       | 8.75           | -0.21                    | -2.4      |                              | YES                   |                    |          |         |
| US 52                  | W1415      | W1416        | Landing/Turning Space                      | 6                       | 5.69           | -0.08                    | -1.4      |                              | YES                   |                    |          |         |
| US 52                  | W1416      | W1417        | Ramp Running Slope                         | 6                       | 4.02           | -0.28                    | -7.0      |                              | YES                   |                    |          |         |
| US 52                  | W1417      | W1401        | Crosswalk Cross Slope - No Yield Condition | 6                       | 6.66           | -0.28                    | -4.2      |                              | YES                   |                    |          |         |
| US 52                  | W1418      | W1419        | Sidewalk Running Slope                     | 6                       | 7.06           | 0.18                     | 2.5       |                              | YES                   |                    |          |         |
| US 52                  | W1419      | W1420        | Sidewalk Running Slope                     | 6                       | 3.06           | 0.14                     | 4.6       |                              | YES                   |                    |          |         |
| US 52                  | W1420      | W1421        | Sidewalk Running Slope                     | 6                       | 2.38           | 0.11                     | 4.6       |                              | YES                   |                    |          |         |
| US 52                  | W1421      | W1422        | Sidewalk Running Slope                     | 6                       | 18.88          | 1.03                     | 5.5       |                              | YES                   |                    |          |         |
| US 52                  | W1422      | W1423        | Sidewalk Cross Slope                       | 6                       | 3.92           | 0.08                     | 2.0       |                              | YES                   |                    |          |         |
| US 52                  | W1423      | W1424        | Sidewalk Running Slope                     | 6                       | 20.70          | 1.14                     | 5.5       |                              | YES                   |                    |          |         |
| US 52                  | W1424      | W1425        | Sidewalk Running Slope                     | 6                       | 3.97           | -0.12                    | -3.0      |                              | YES                   |                    |          |         |
| US 52                  | W1425      | W1426        | Sidewalk Running Slope                     | 6                       | 4.64           | -0.14                    | -3.0      |                              | YES                   |                    |          |         |
| US 52                  | W1426      | W1427        | Sidewalk Running Slope                     | 6                       | 3.92           | -0.18                    | -4.6      |                              | YES                   |                    |          |         |
| US 52                  | W1427      | W1412        | Sidewalk Running Slope                     | 6                       | 3.92           | -0.19                    | -4.8      |                              | YES                   |                    |          |         |

## SIDEWALK COMPLIANCE

See S Sheets

113\_10  
6/18/25

- \* 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.  
 3. See Tab 113-10A for point location information.

| Roadway Identification | From Point | Ending Point | Sidewalk Designation   | Sidewalk Thickness (IN) | Distance* (FT) | Change in Elevation (FT) | Slope (%) | Acceptable Constructed Range | Staking Required? (1) | Measured Slope (%) | Initials | Remarks |
|------------------------|------------|--------------|------------------------|-------------------------|----------------|--------------------------|-----------|------------------------------|-----------------------|--------------------|----------|---------|
| US 52                  | W1411      | W1418        | Sidewalk Running Slope | 6                       | 7.06           | 0.27                     | 3.8       |                              | YES                   |                    |          |         |
| US 52                  | W1403      | W1416        | Landing/Turning Space  | 6                       | 6.00           | 0.06                     | 1.0       |                              | YES                   |                    |          |         |
| US 52                  | W1403      | W1410        | Landing/Turning Space  | 6                       | 6.00           | 0.09                     | 1.5       |                              | YES                   |                    |          |         |
| US 52                  | W1412      | W1416        | Landing/Turning Space  | 6                       | 6.00           | -0.09                    | -1.5      |                              | YES                   |                    |          |         |
| US 52                  | W1413      | W1415        | Landing/Turning Space  | 6                       | 6.00           | -0.11                    | -1.8      |                              | YES                   |                    |          |         |
| US 52                  | W1418      | W1427        | Sidewalk Cross Slope   | 6                       | 4.00           | -0.04                    | -1.0      |                              | YES                   |                    |          |         |
| US 52                  | W1419      | W1426        | Sidewalk Cross Slope   | 6                       | 4.00           | -0.04                    | -1.0      |                              | YES                   |                    |          |         |
| US 52                  | W1420      | W1425        | Sidewalk Cross Slope   | 6                       | 4.00           | -0.04                    | -1.0      |                              | YES                   |                    |          |         |
| US 52                  | W1421      | W1424        | Sidewalk Cross Slope   | 6                       | 4.00           | -0.03                    | -0.7      |                              | YES                   |                    |          |         |
| US 52                  | W1417      | W1402        | Ramp Cross Slope       | 6                       | 6.00           | -0.07                    | -1.2      |                              | YES                   |                    |          |         |

