

Appendix A: Maps and Designs

Environmental Map Set

Legend

Rail Attributes

-  Existing UPRR Rail Alignment
-  Existing UPRR ROW

Proposed ROW Impacts

-  Temporary Construction Easement
-  Permanent Easement
-  Required ROW
-  APE

FEMA Special Flood Hazard Zones

-  Zone A
-  Zone AE

Noise & Vibration Analysis

-  Noise Receptor

Community Resources

-  Church
-  Municipal Facility
-  Fire Department
-  Park
-  Police Department
-  US Postal Service
-  School

State & Federally Listed Species

-  Bald Eagle Nest
-  Straw Sedge Observations
-  Royal Catchfly Observations
-  Loggerhead Shrike Observations
-  Queen of the Prairie Boundary
-  Decurrent False Aster Boundary
-  Rattlesnake Master Boundary
-  Rusty Patch Bumblebee Critical Habitat Zone

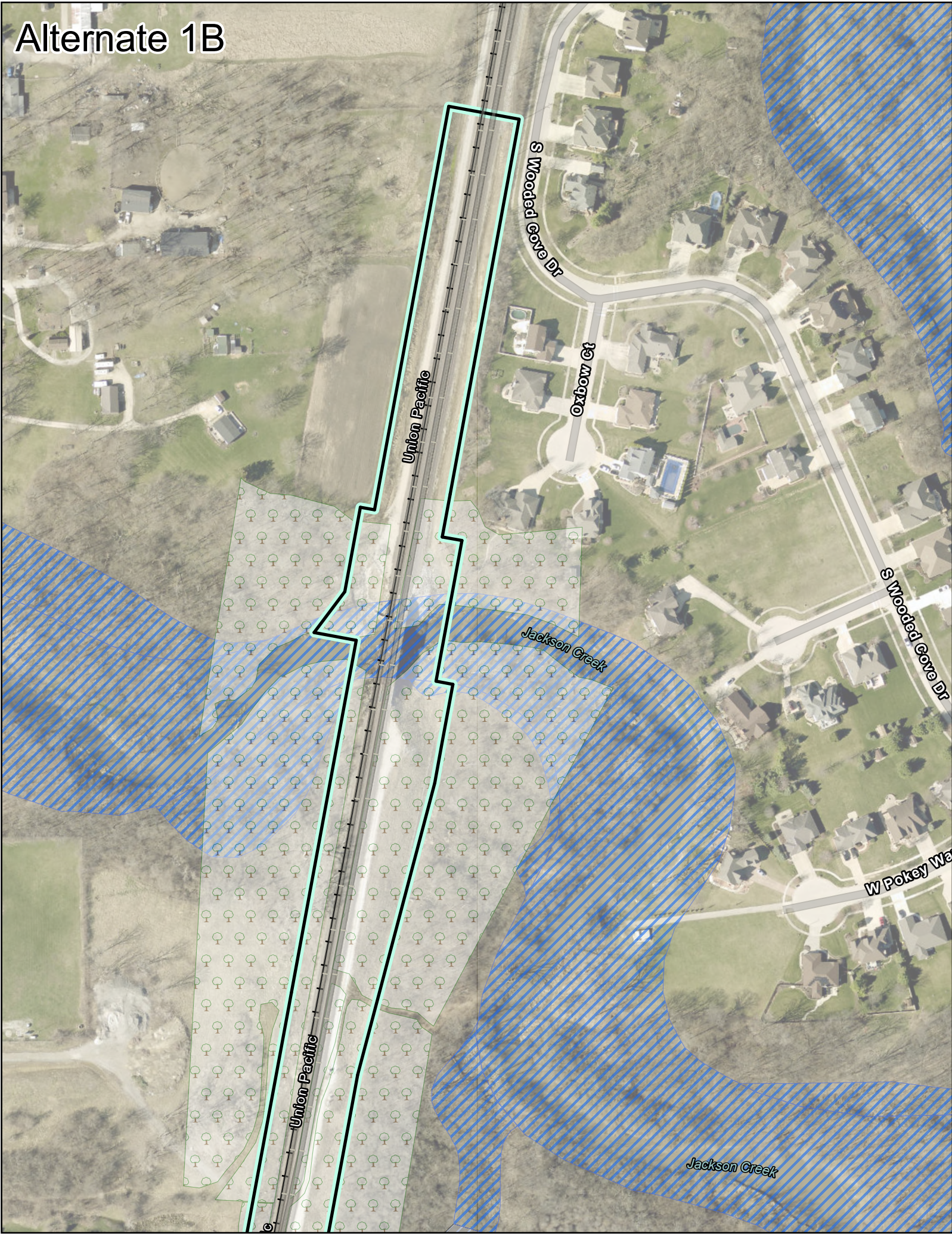
Natural Resources

-  Delineated Streams
-  Delineated Wetlands
-  Forested Area
-  High Quality Prairie
-  INPC Protected Areas
-  MNTP Permittee Wetland Mitigation Banks

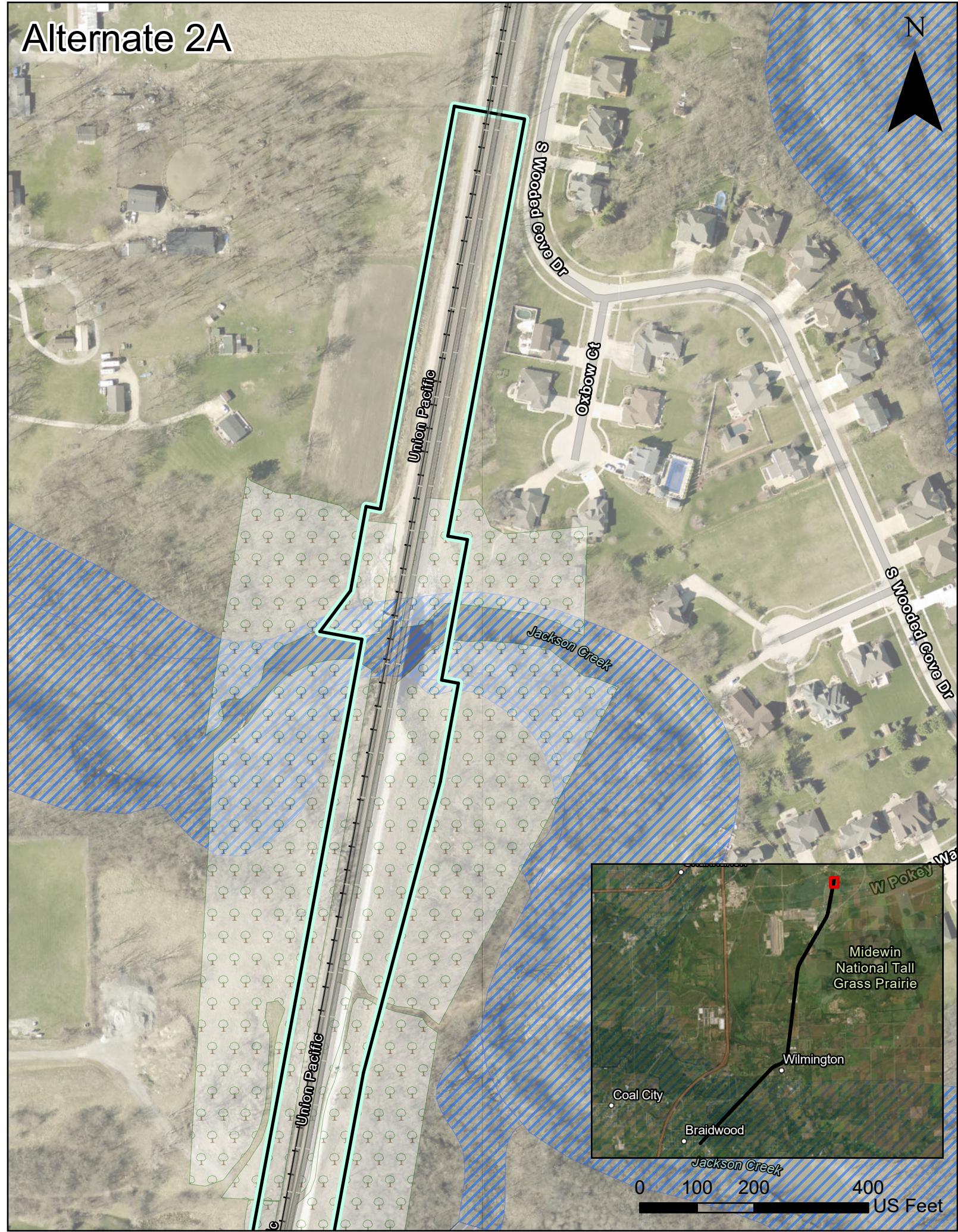
Section 4F Resources

-  Abraham Lincoln National Cemetery
-  Dale and Frances Archer Memorial Park
-  Des Plaines State Fish & Wildlife Area
-  Hitts Siding Prairie
-  Leo and Lorraine O'Connor Memorial Park
-  Midewin National Tallgrass Prairie
-  Historic Route 66

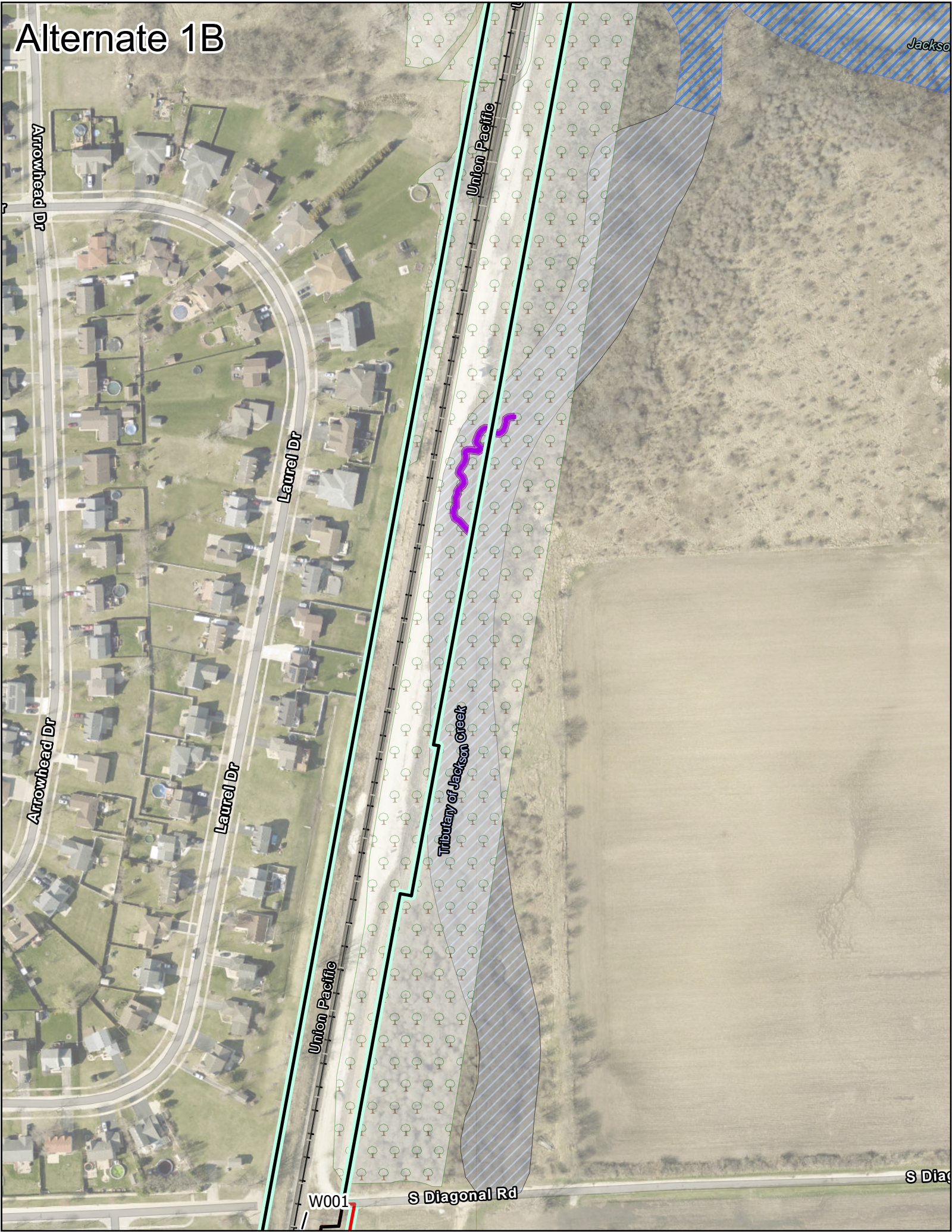
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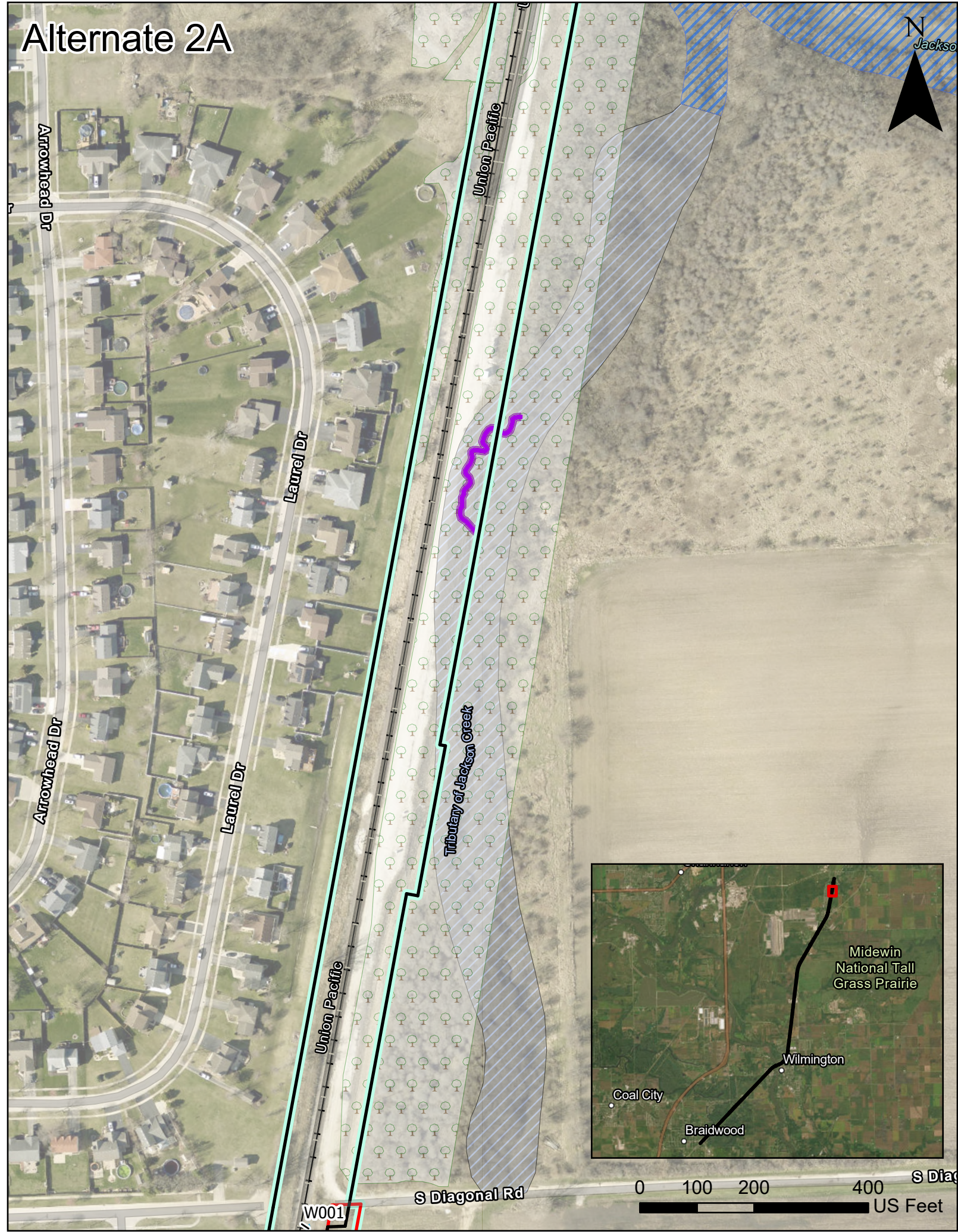
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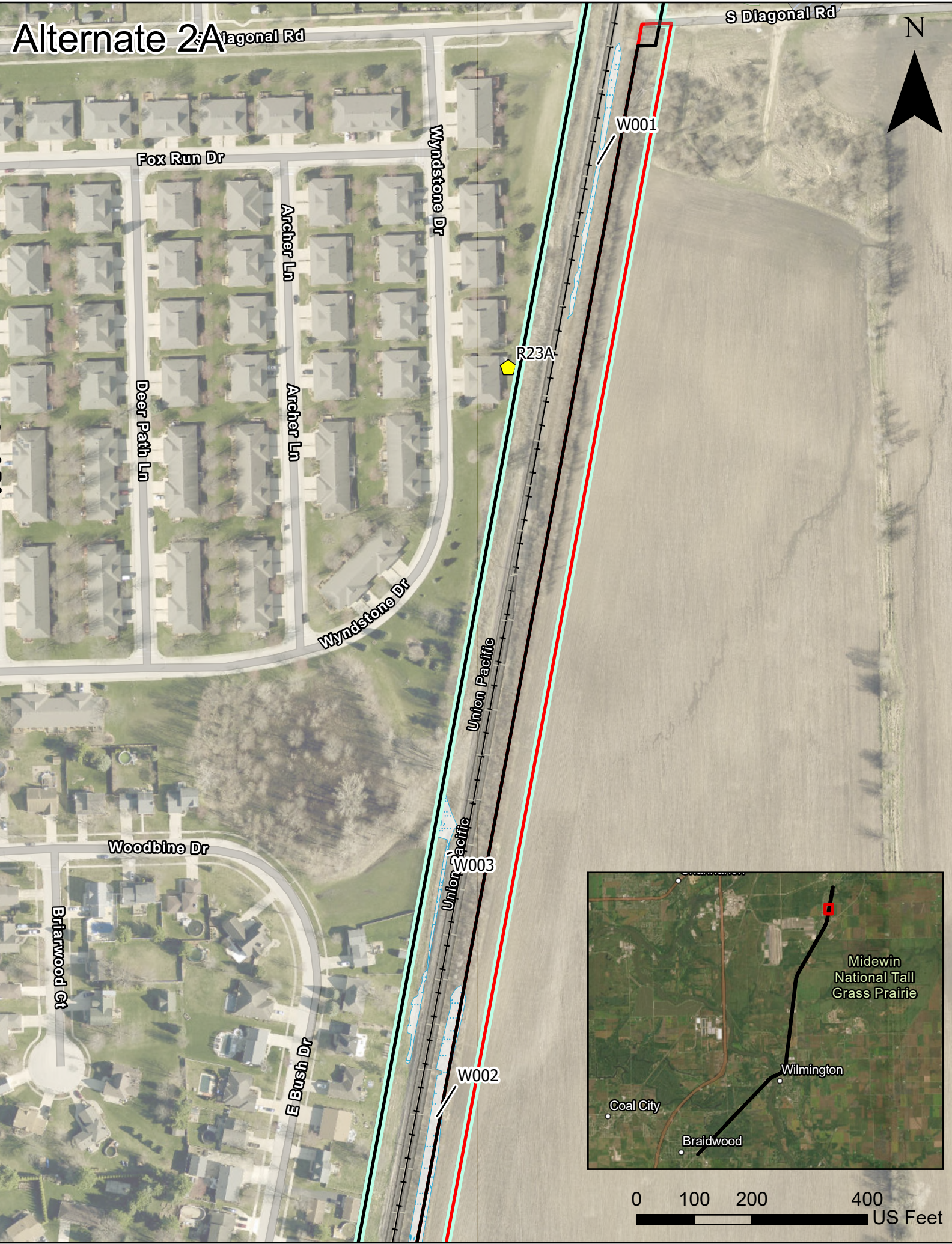


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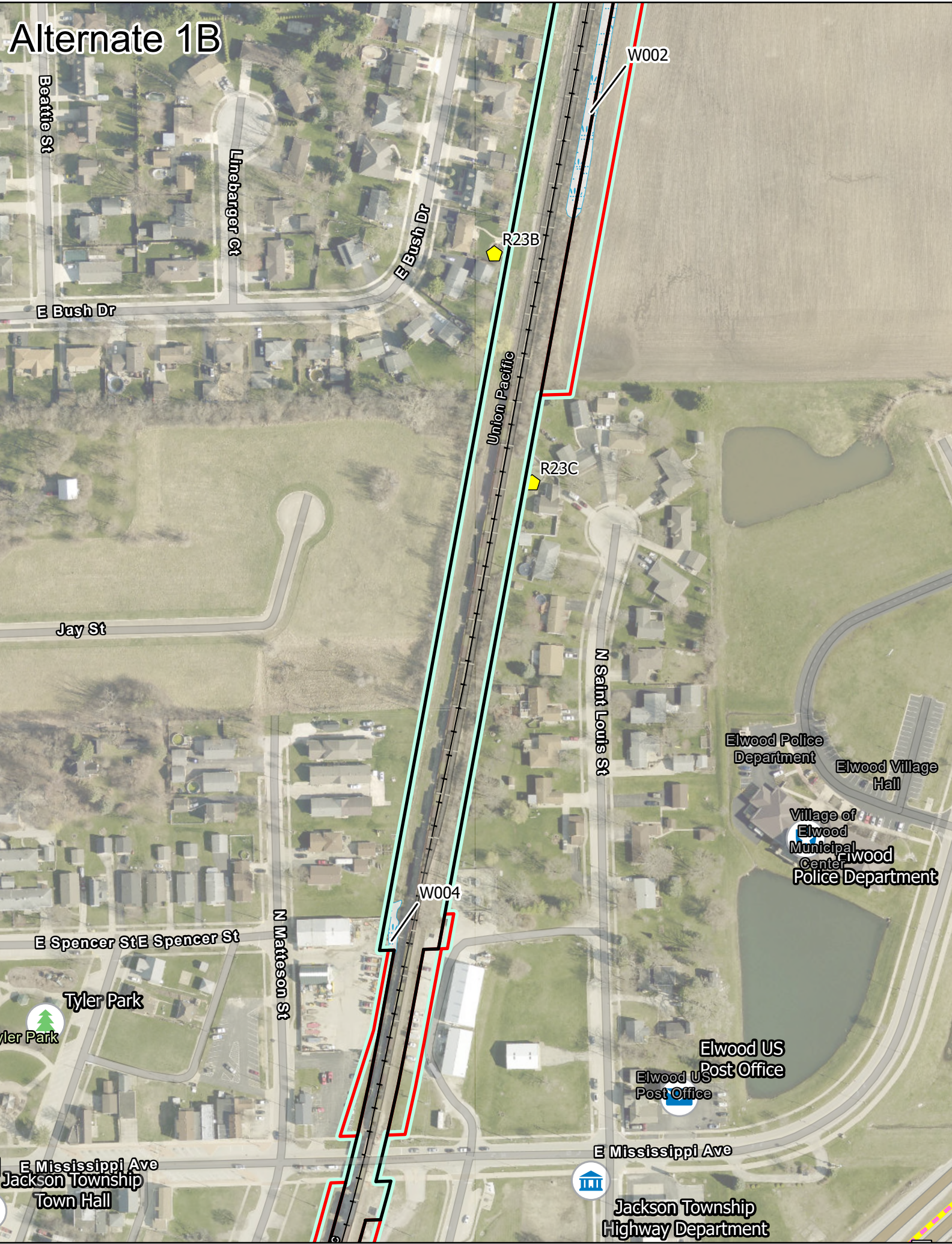


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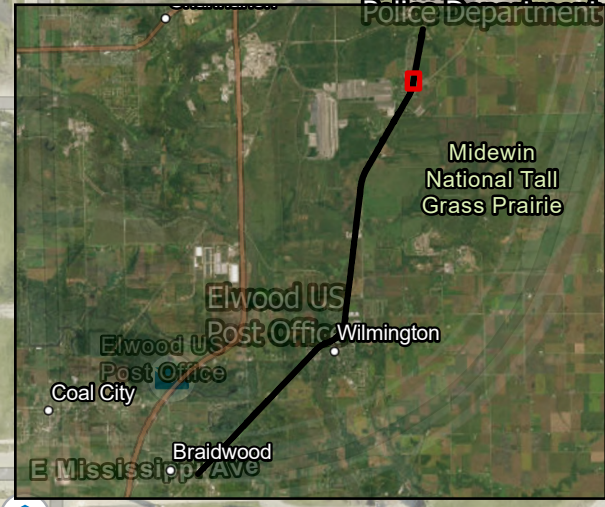




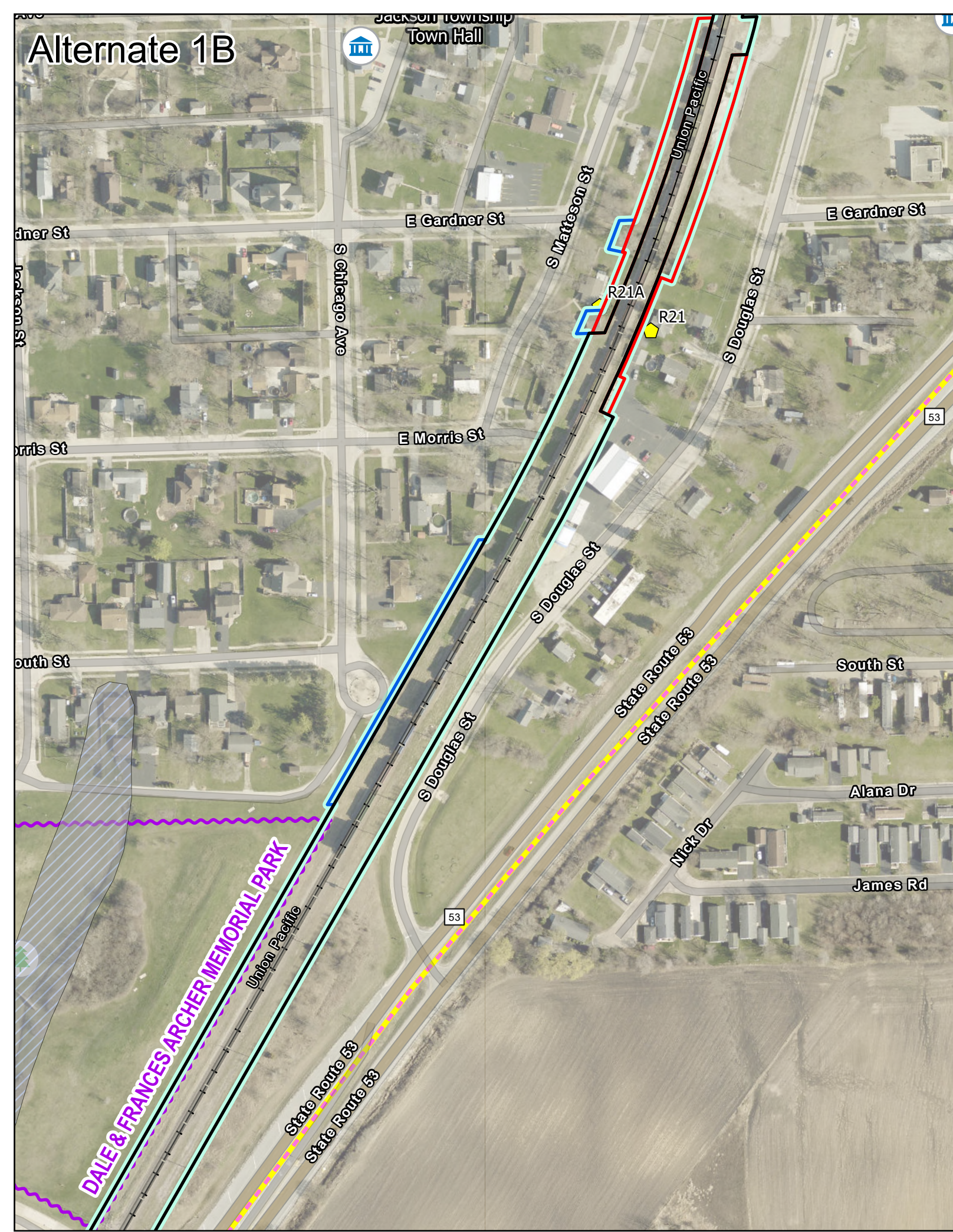
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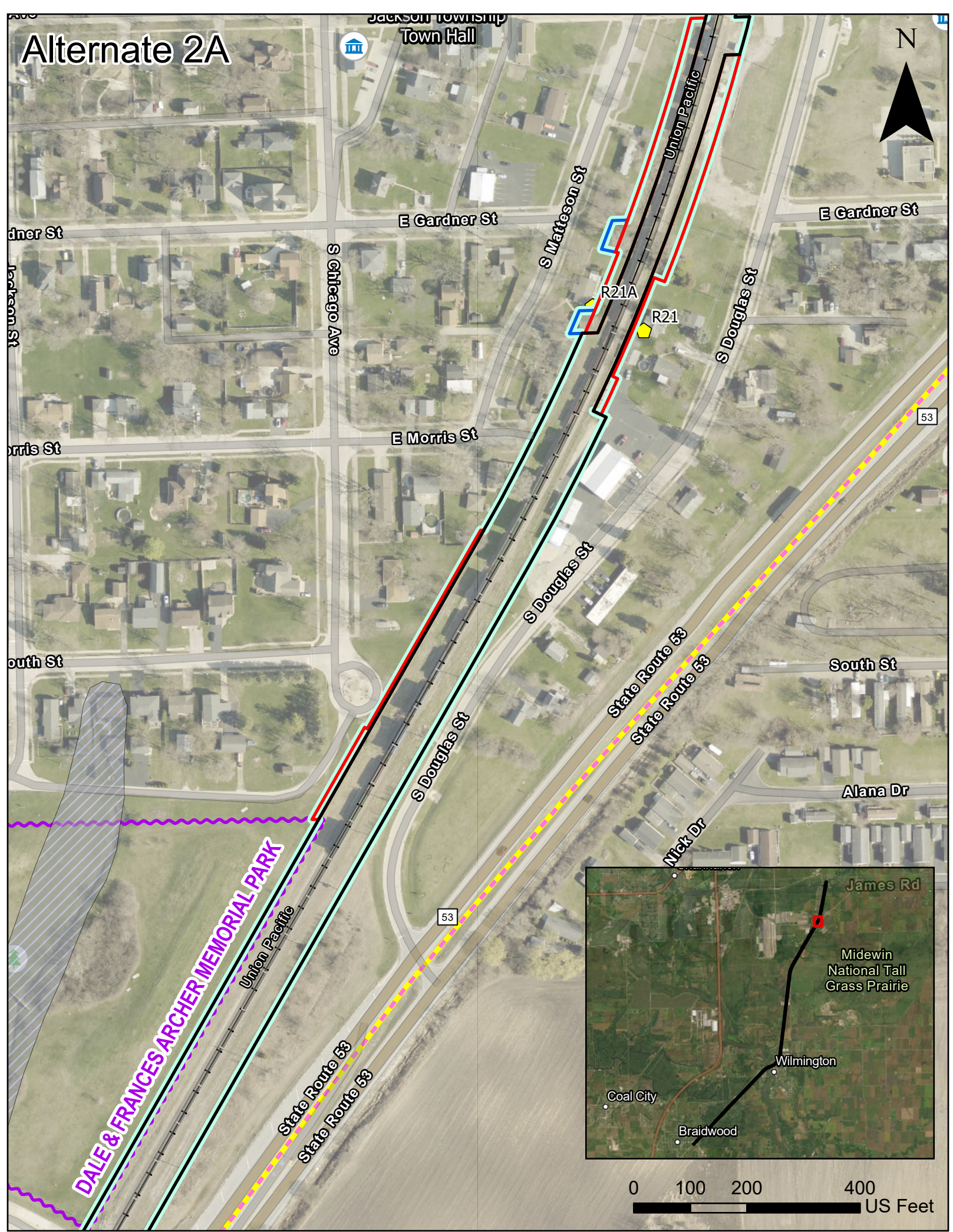
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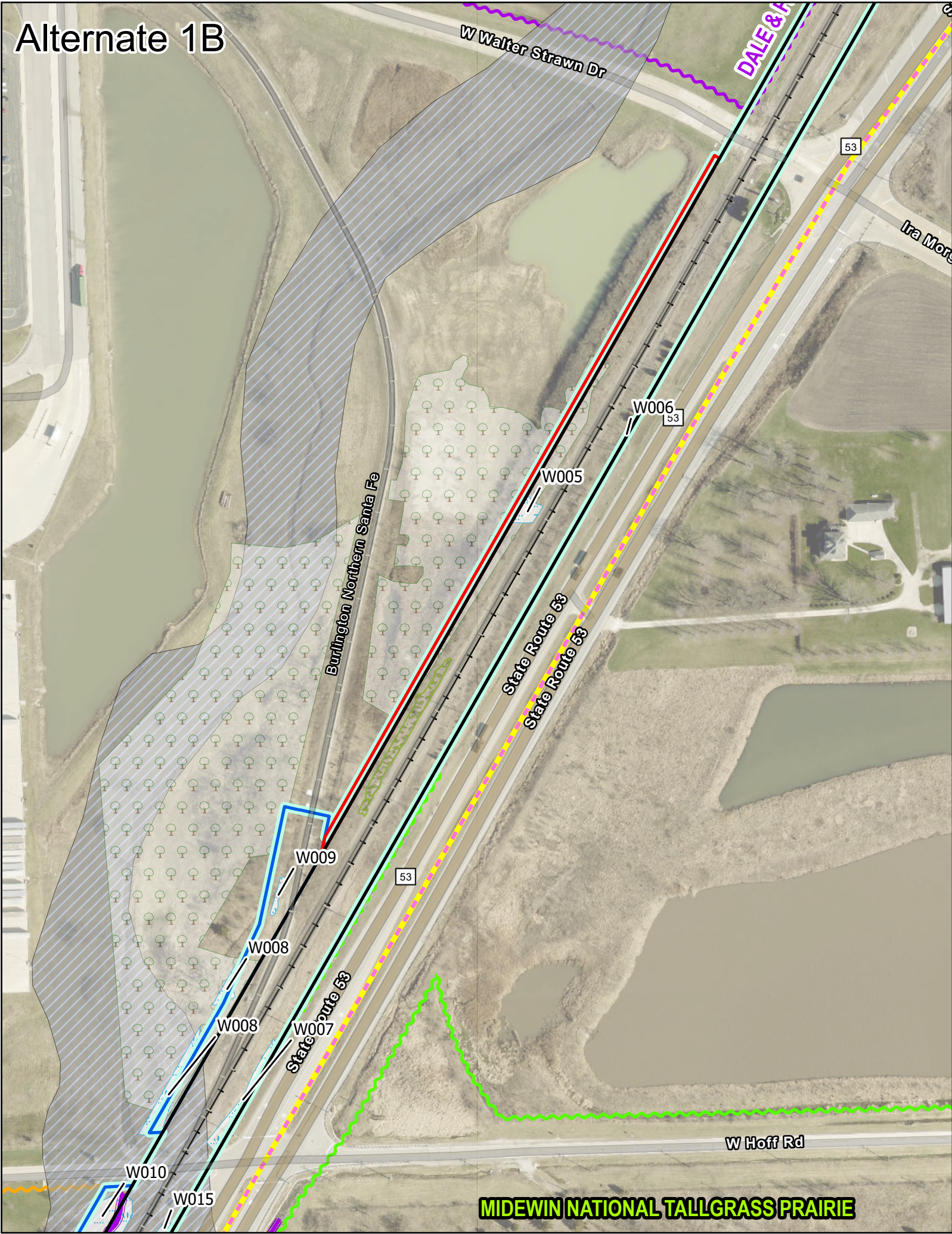
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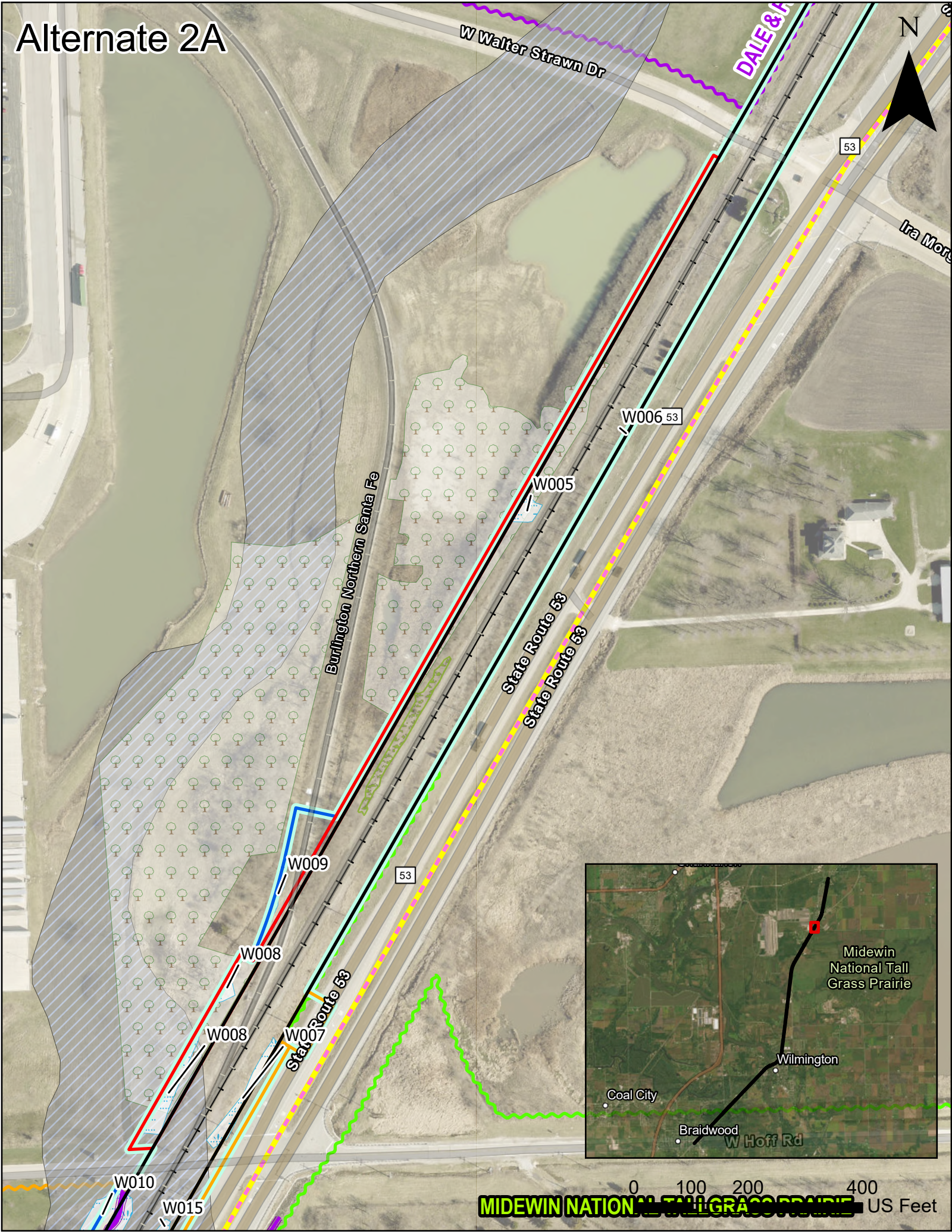
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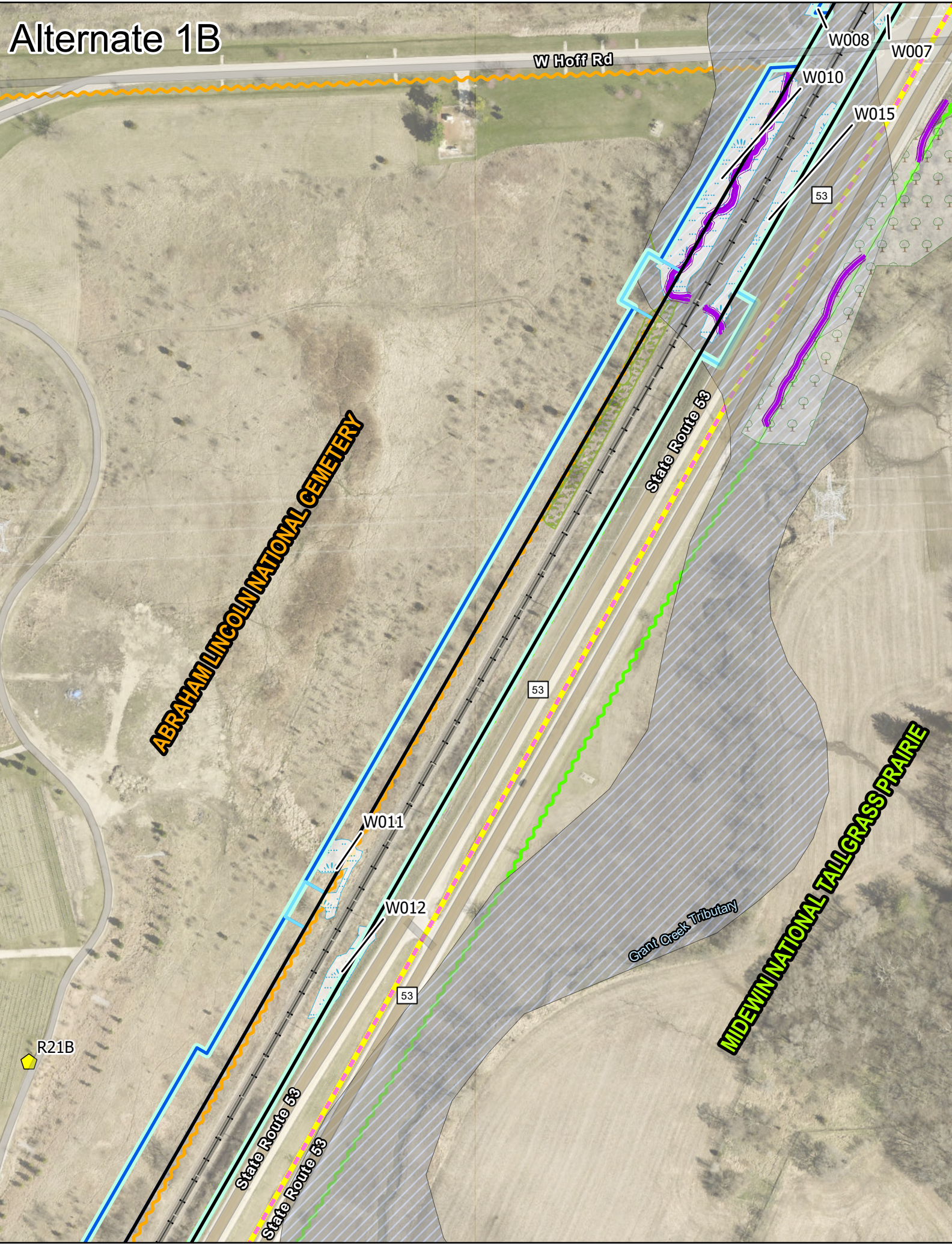
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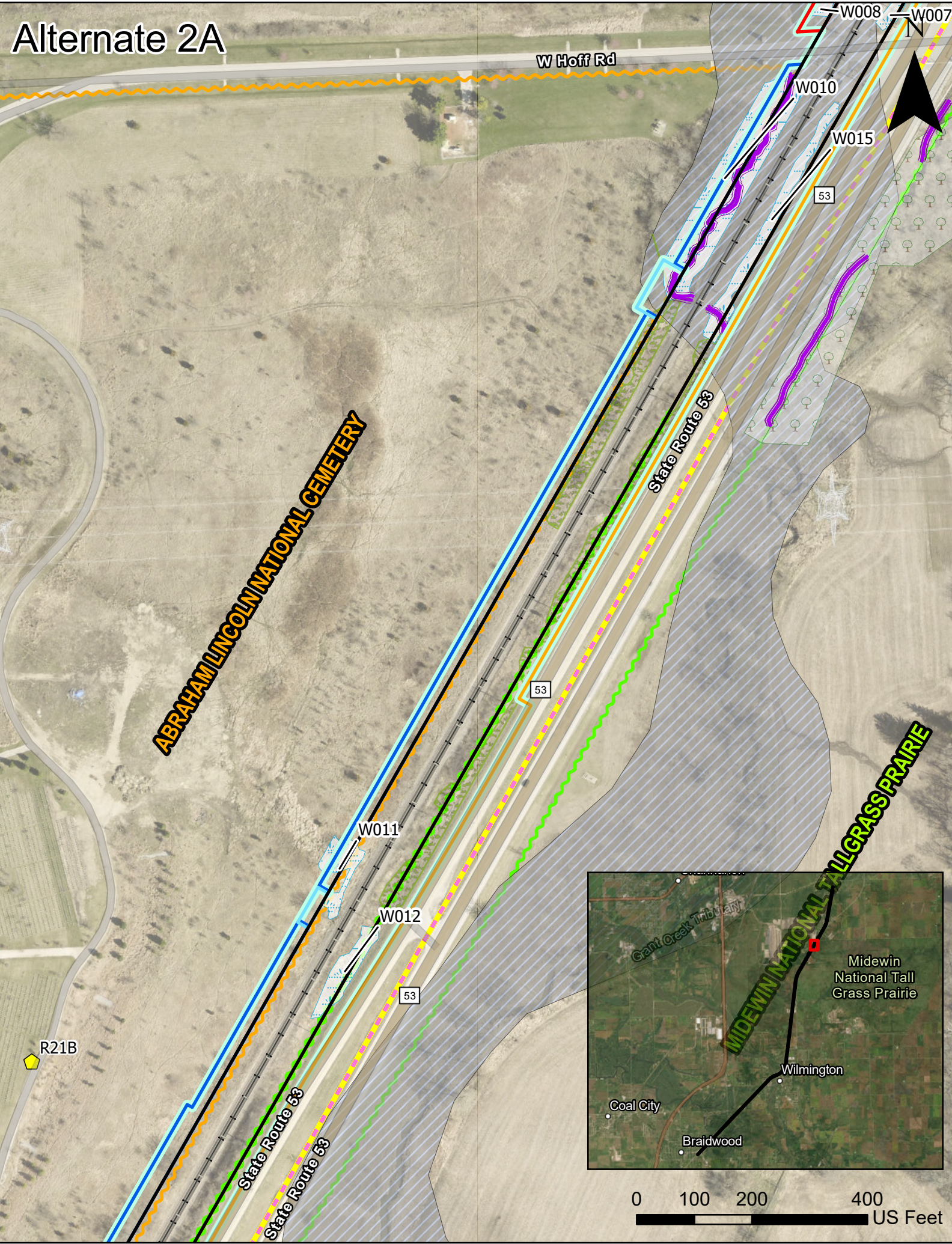
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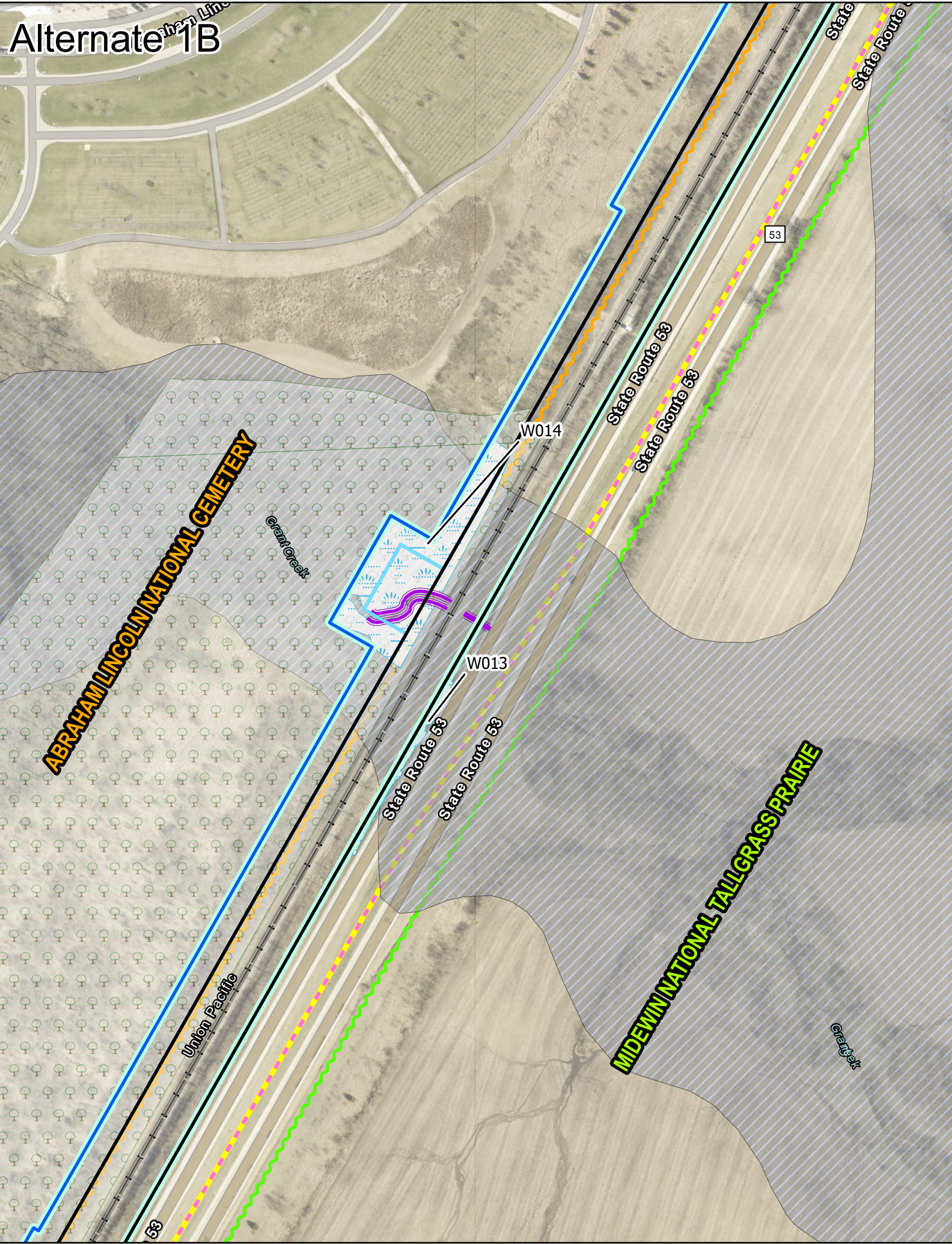
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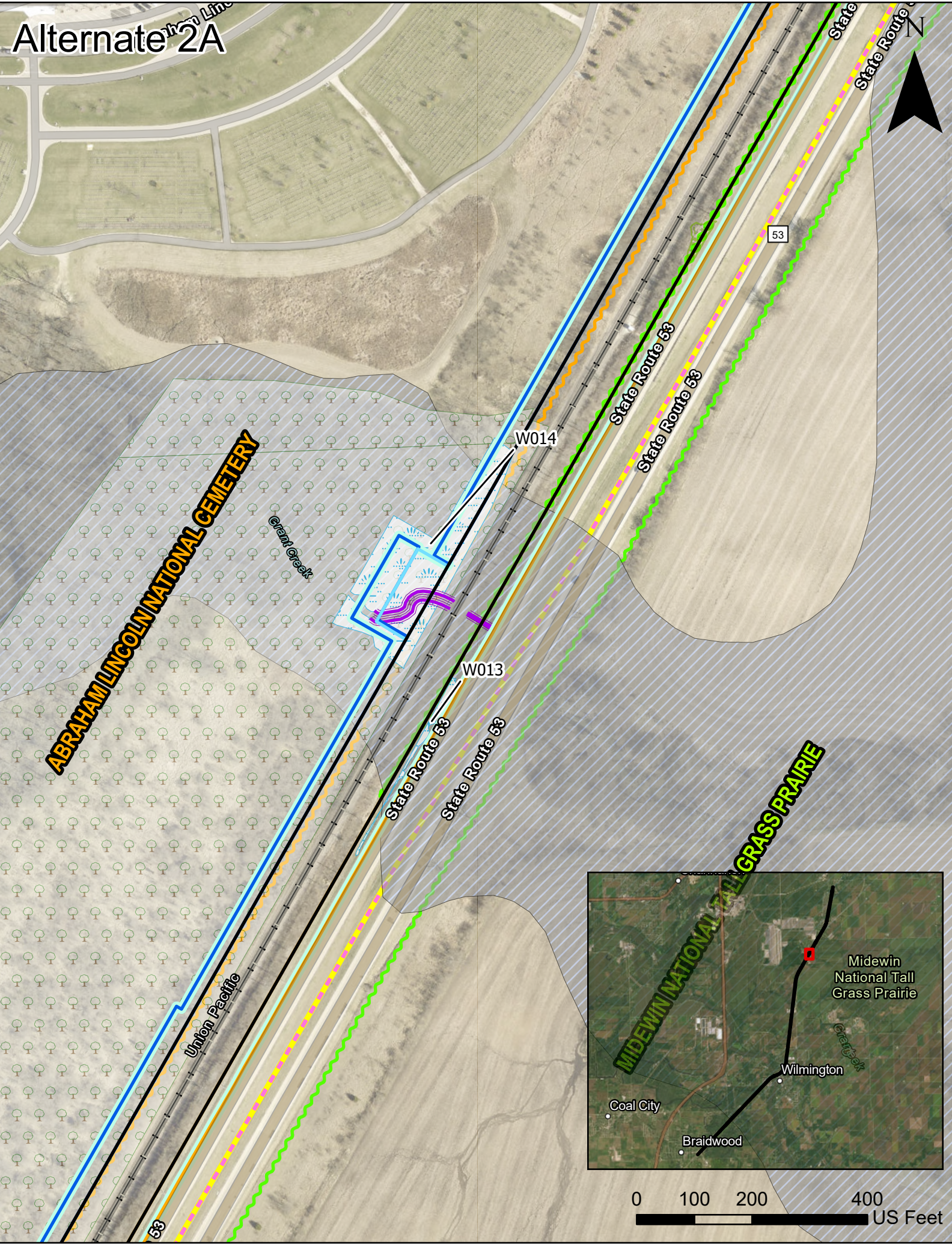
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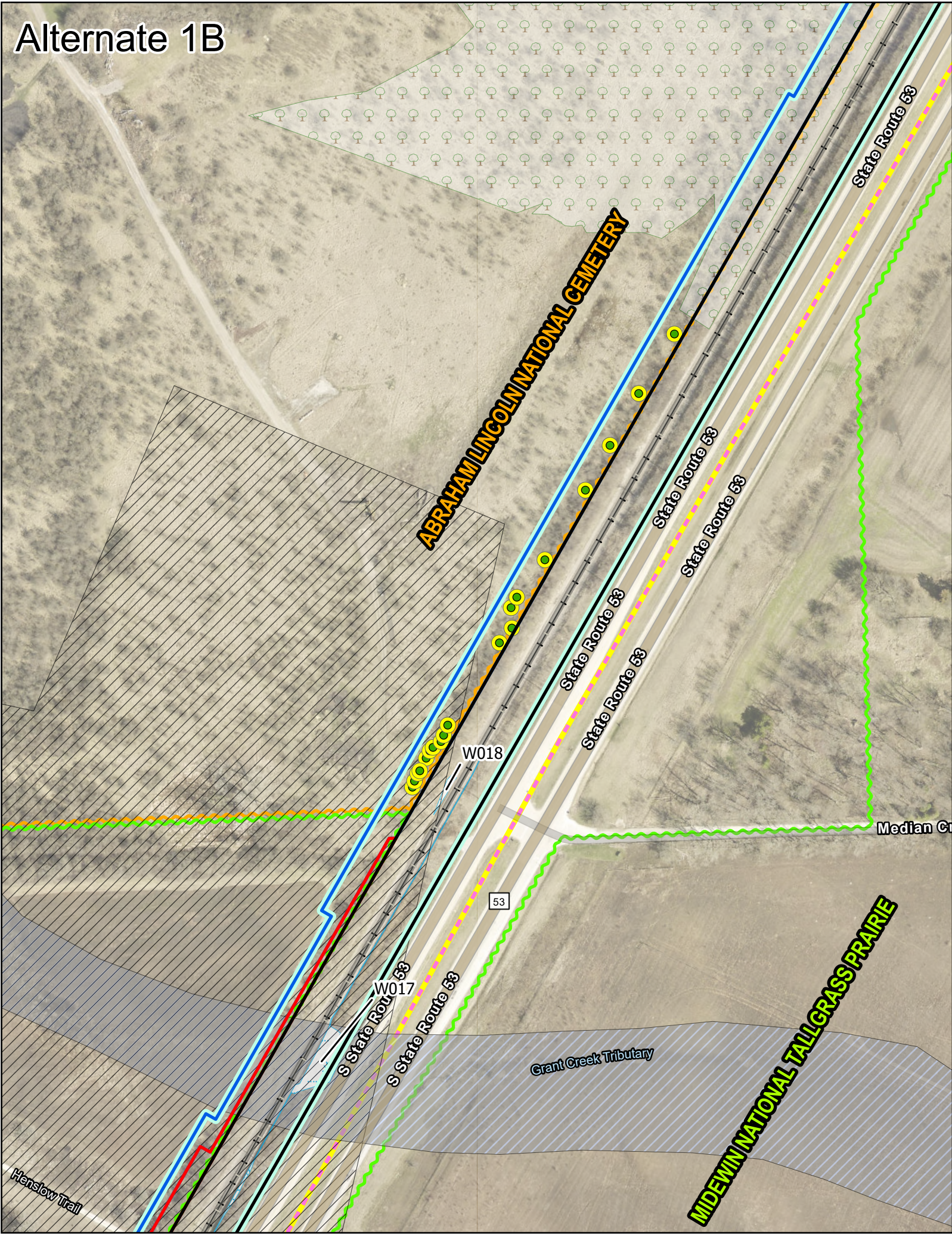
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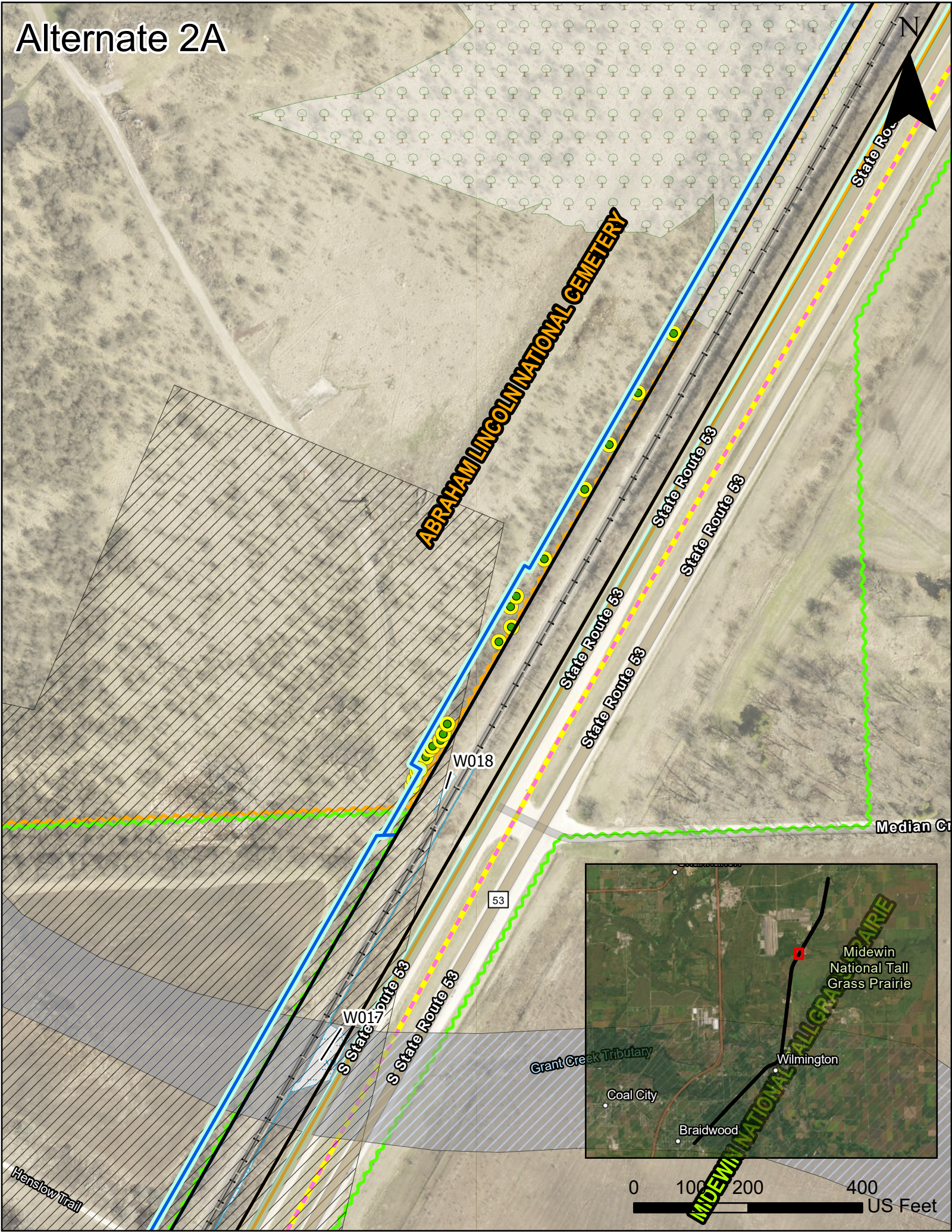
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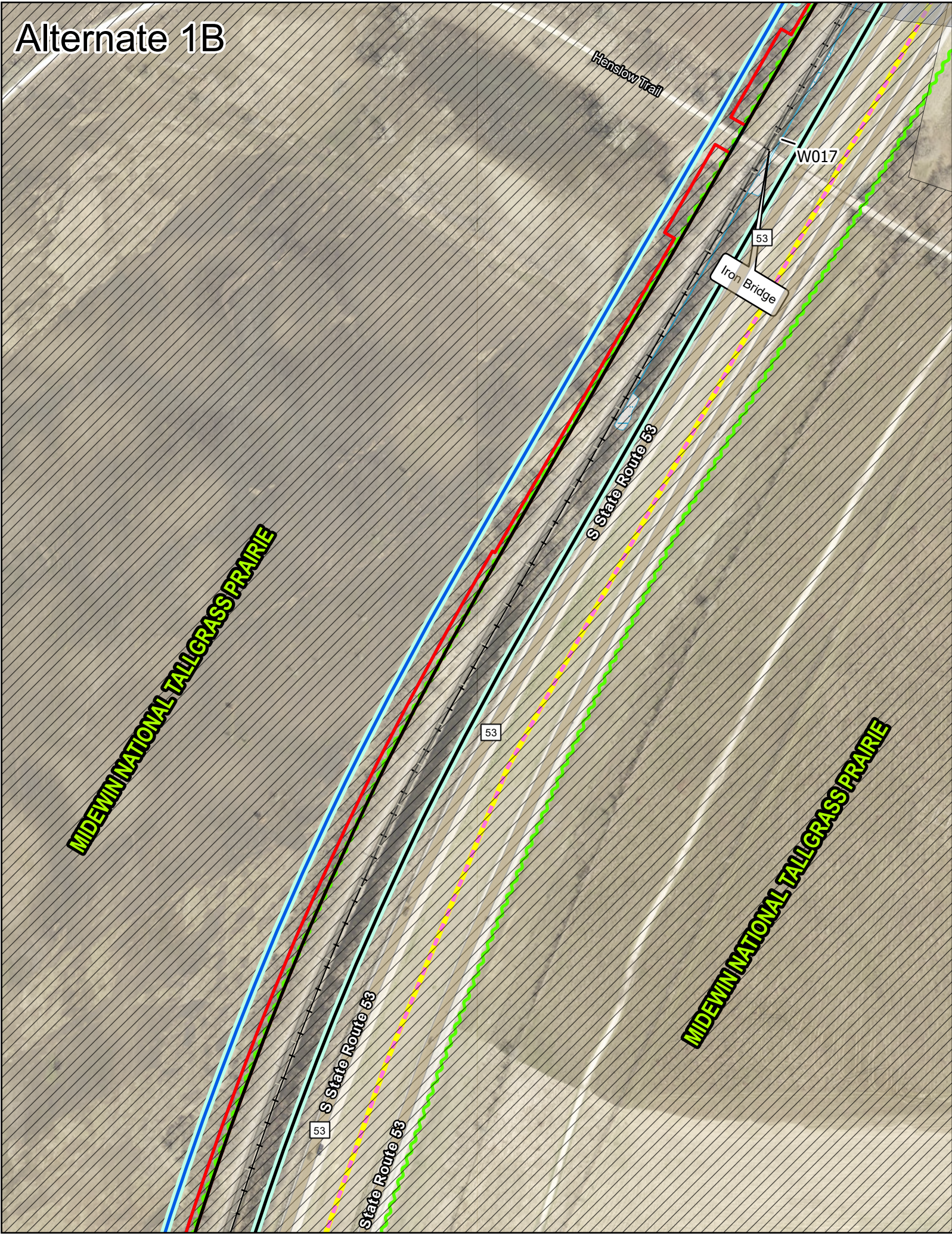
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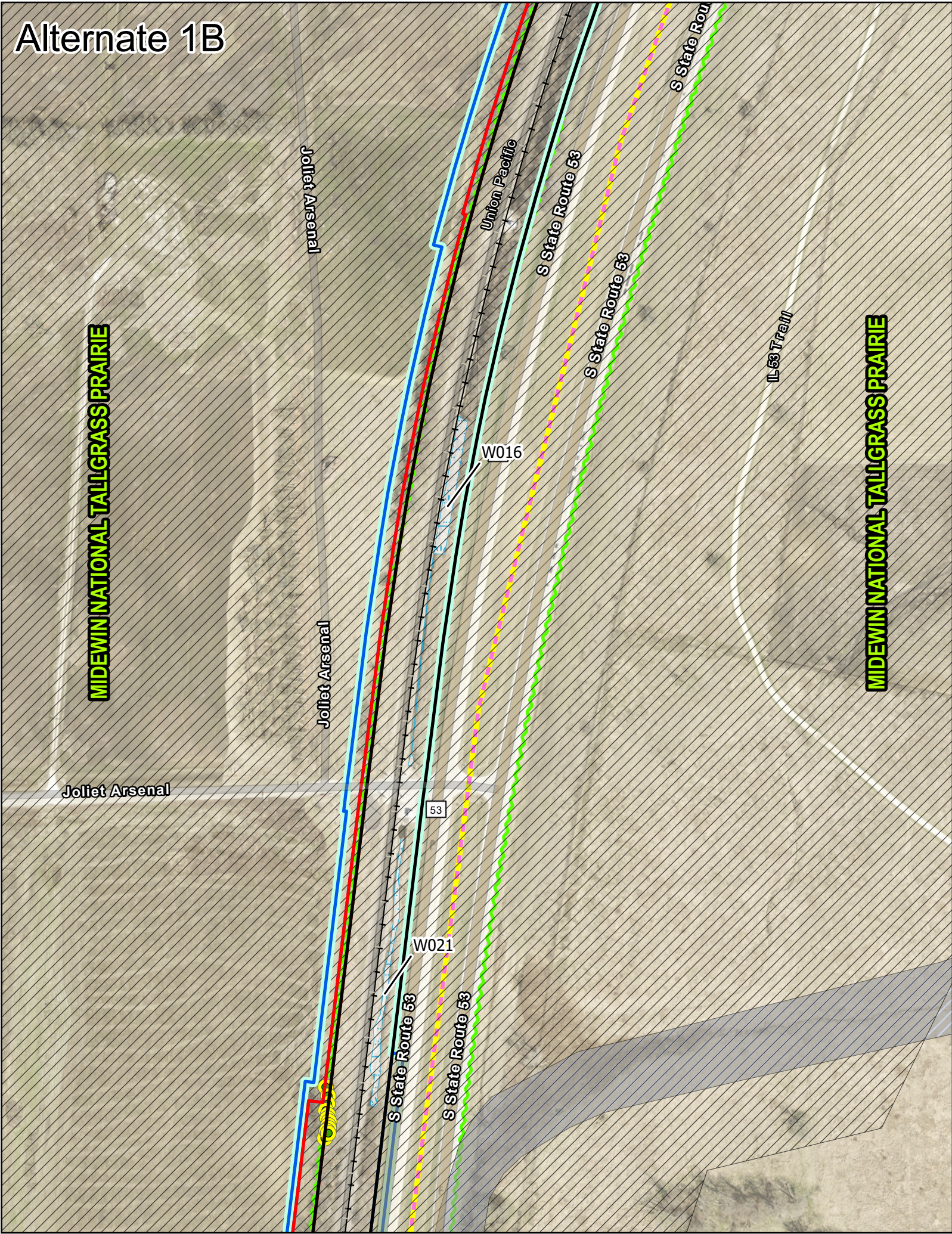
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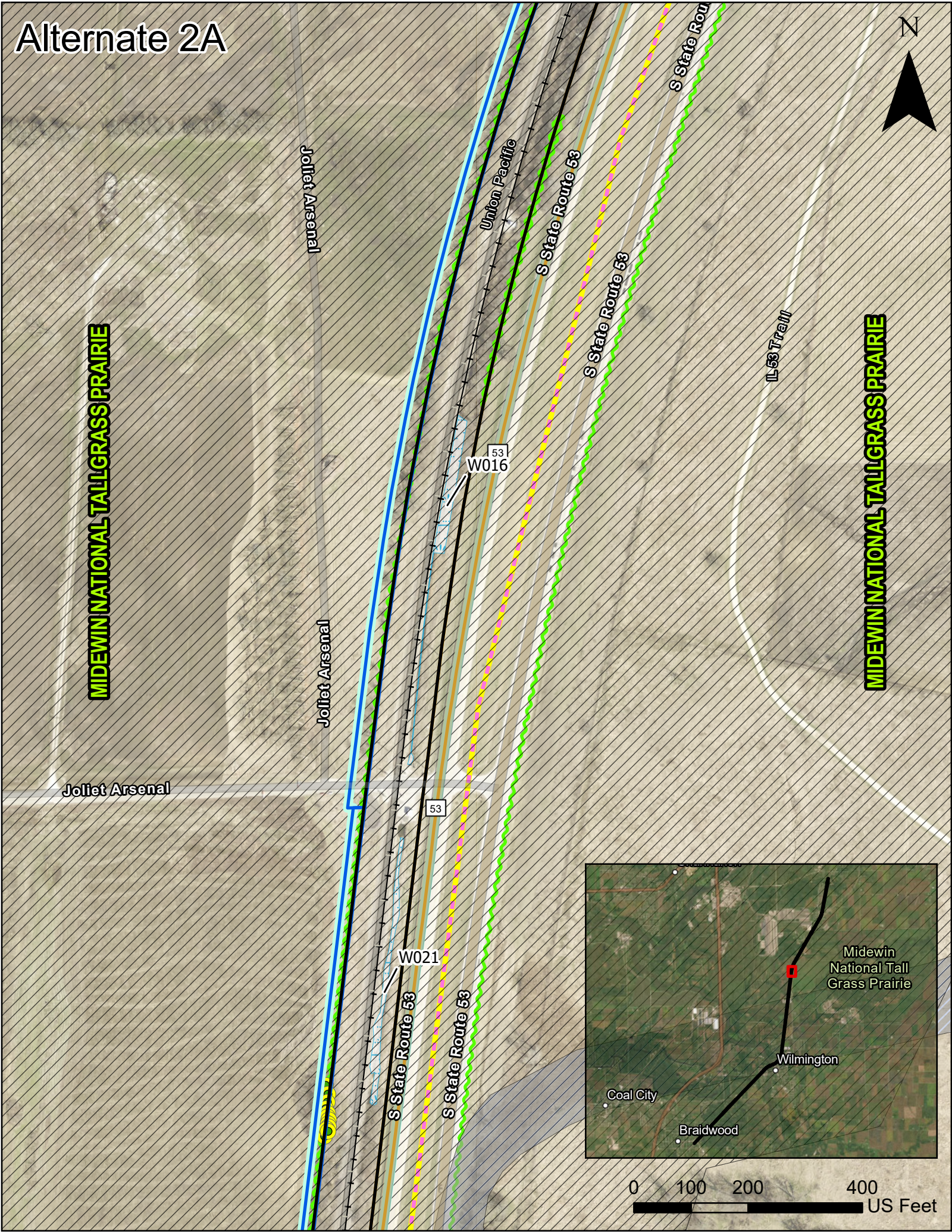
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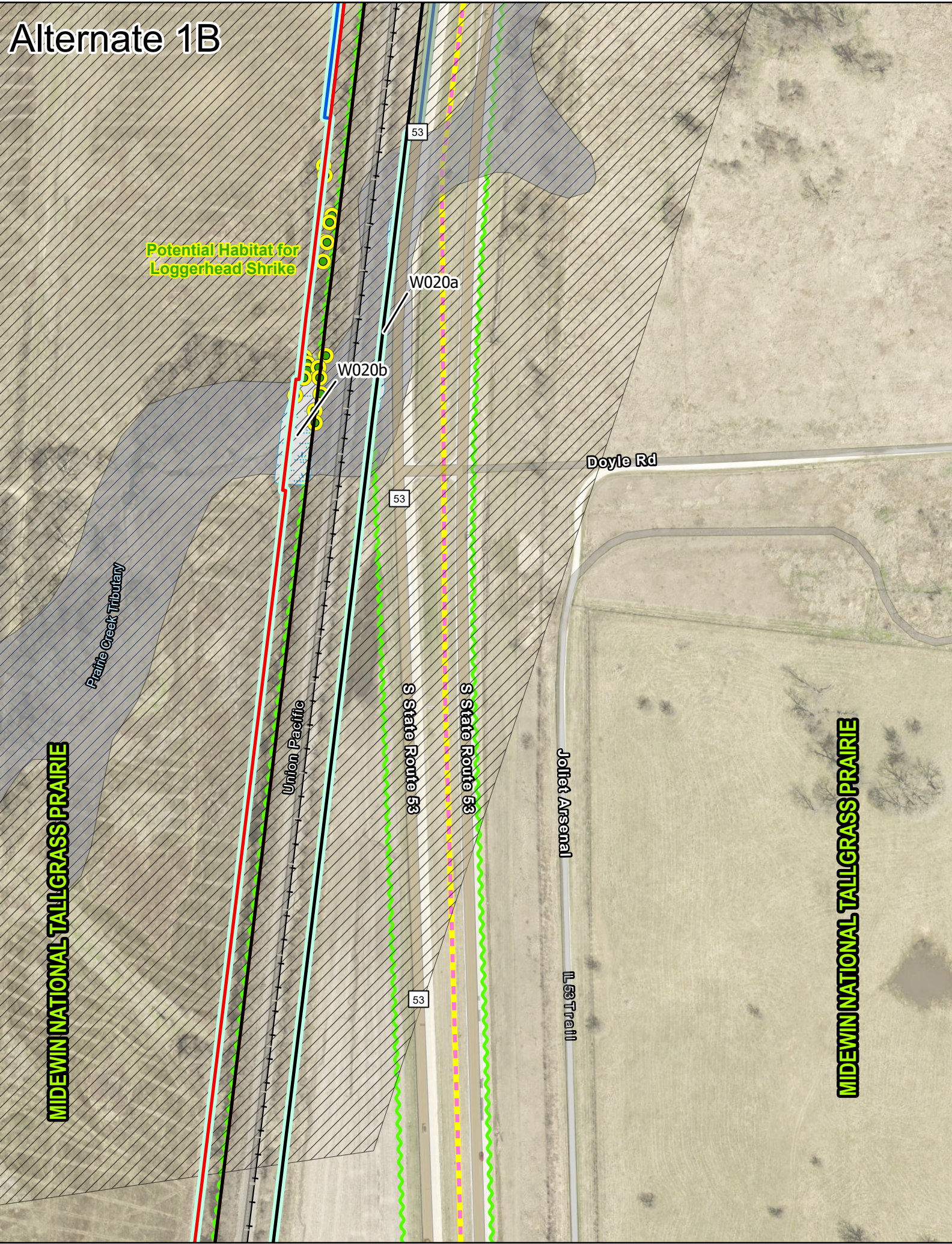
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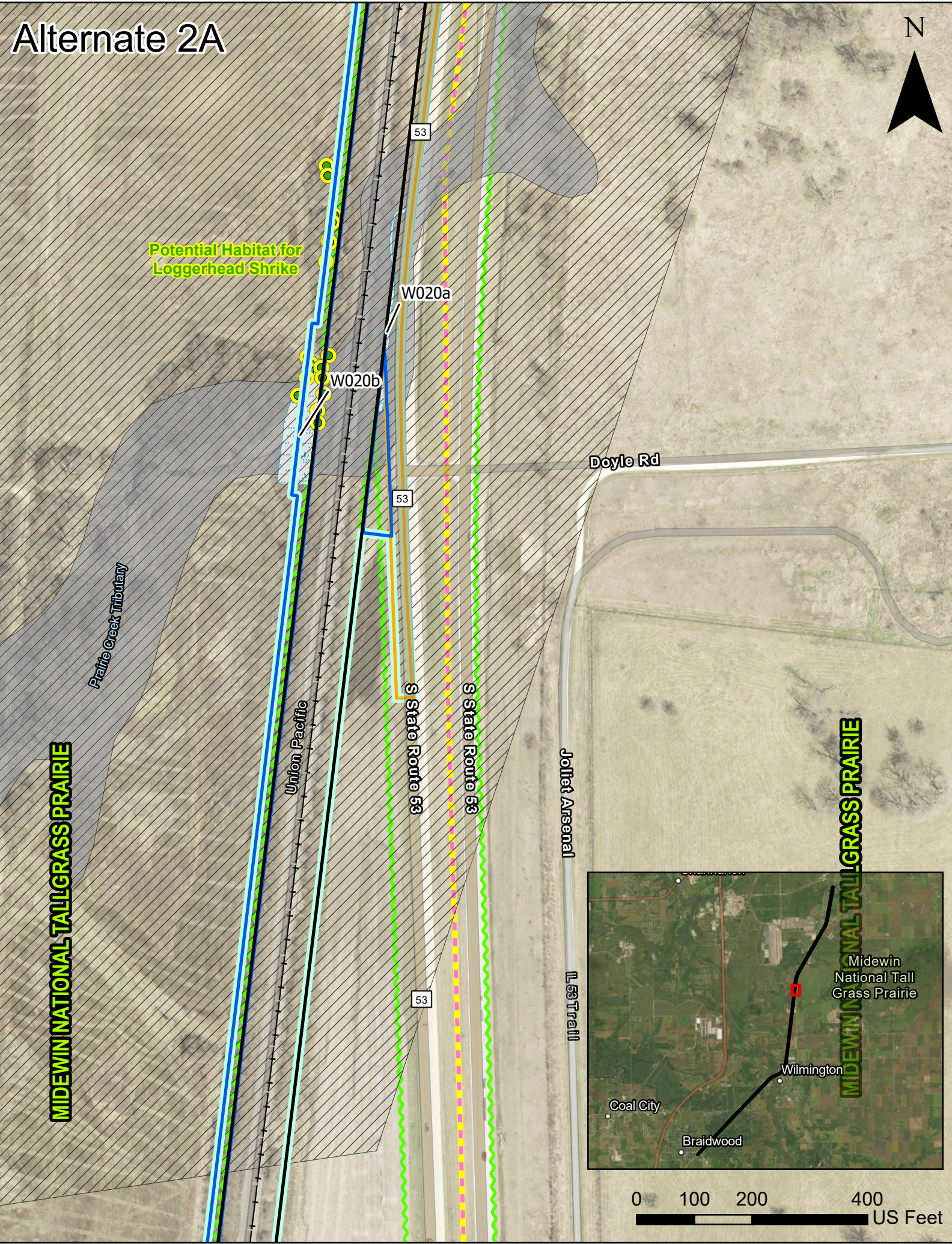
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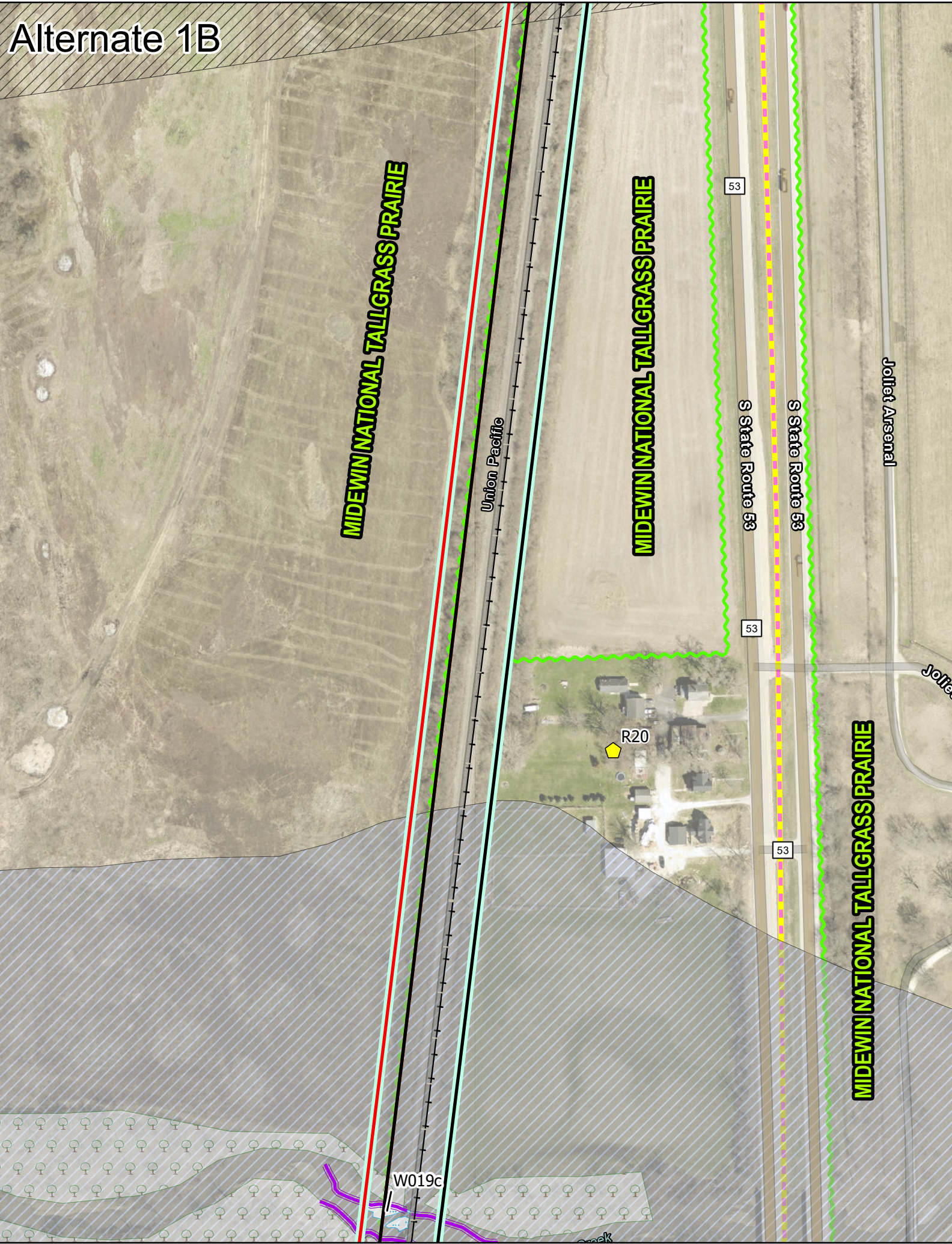
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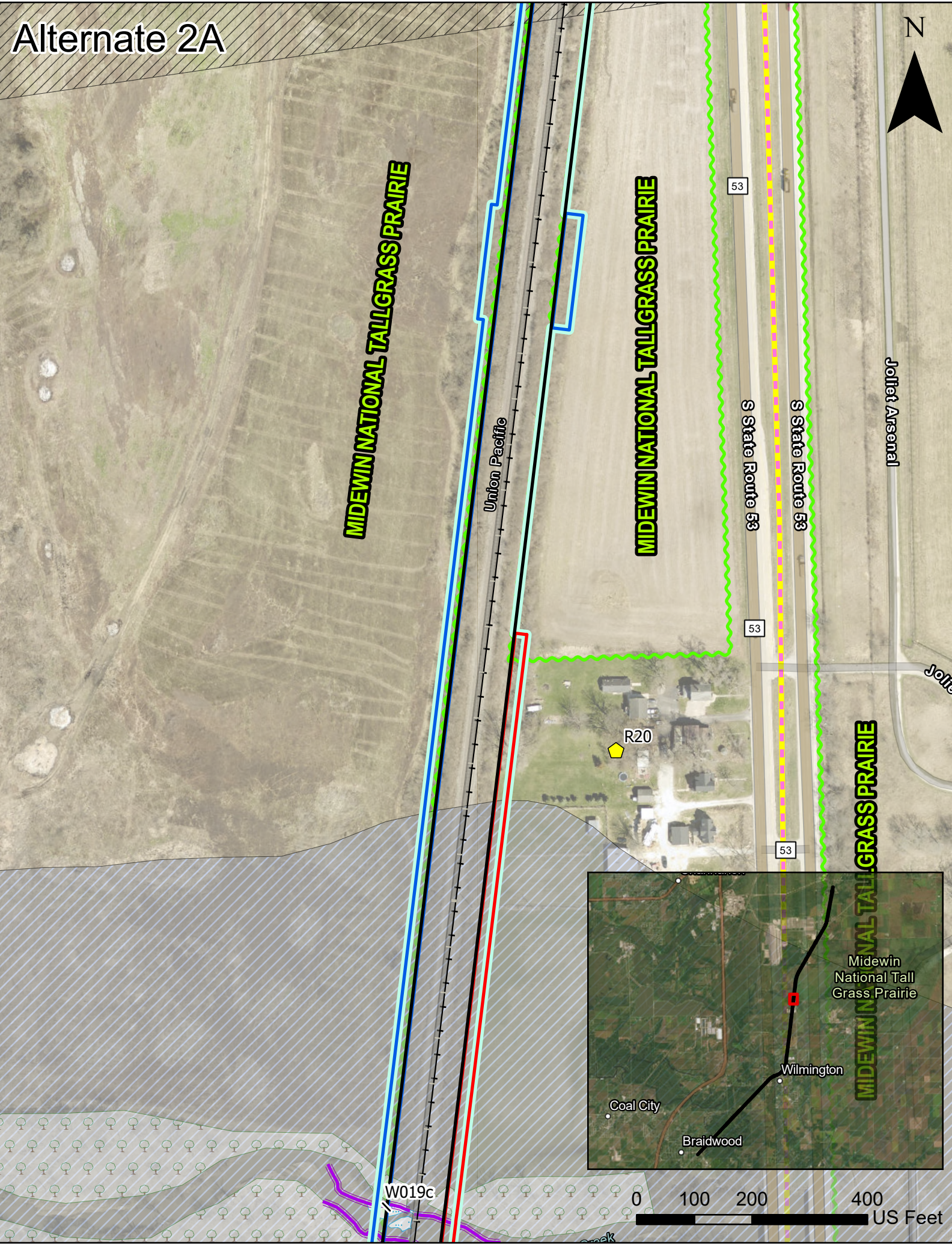
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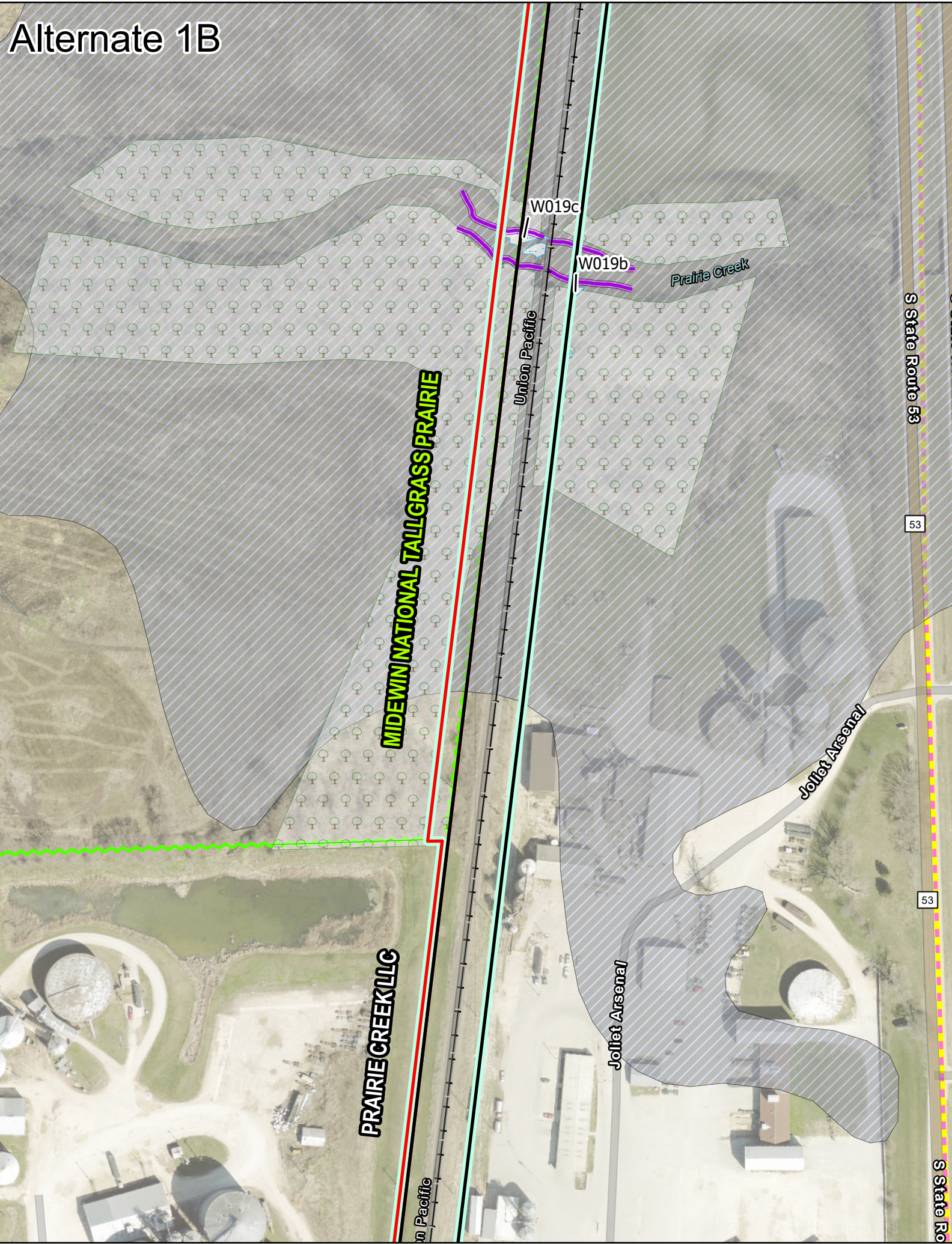
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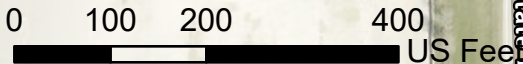
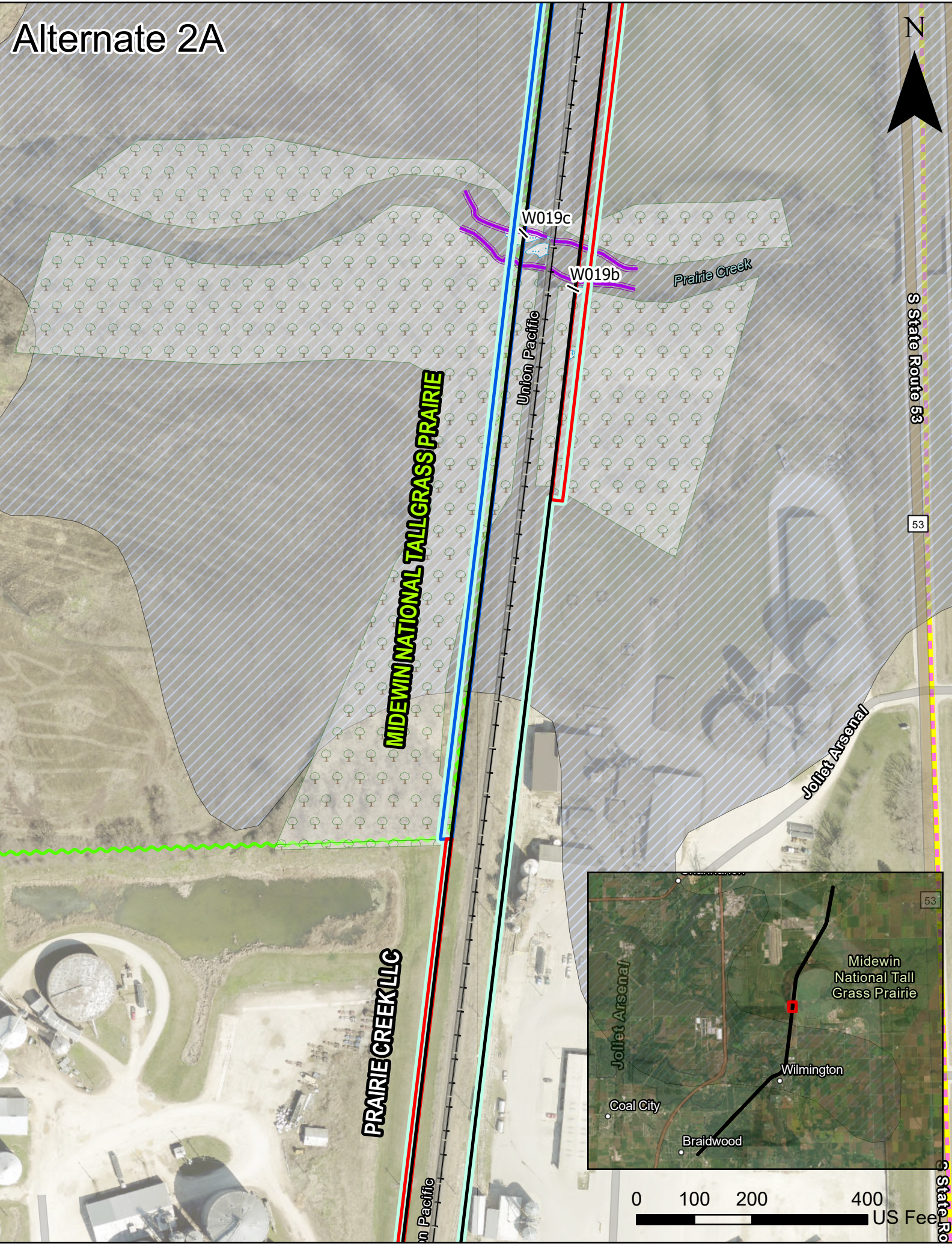
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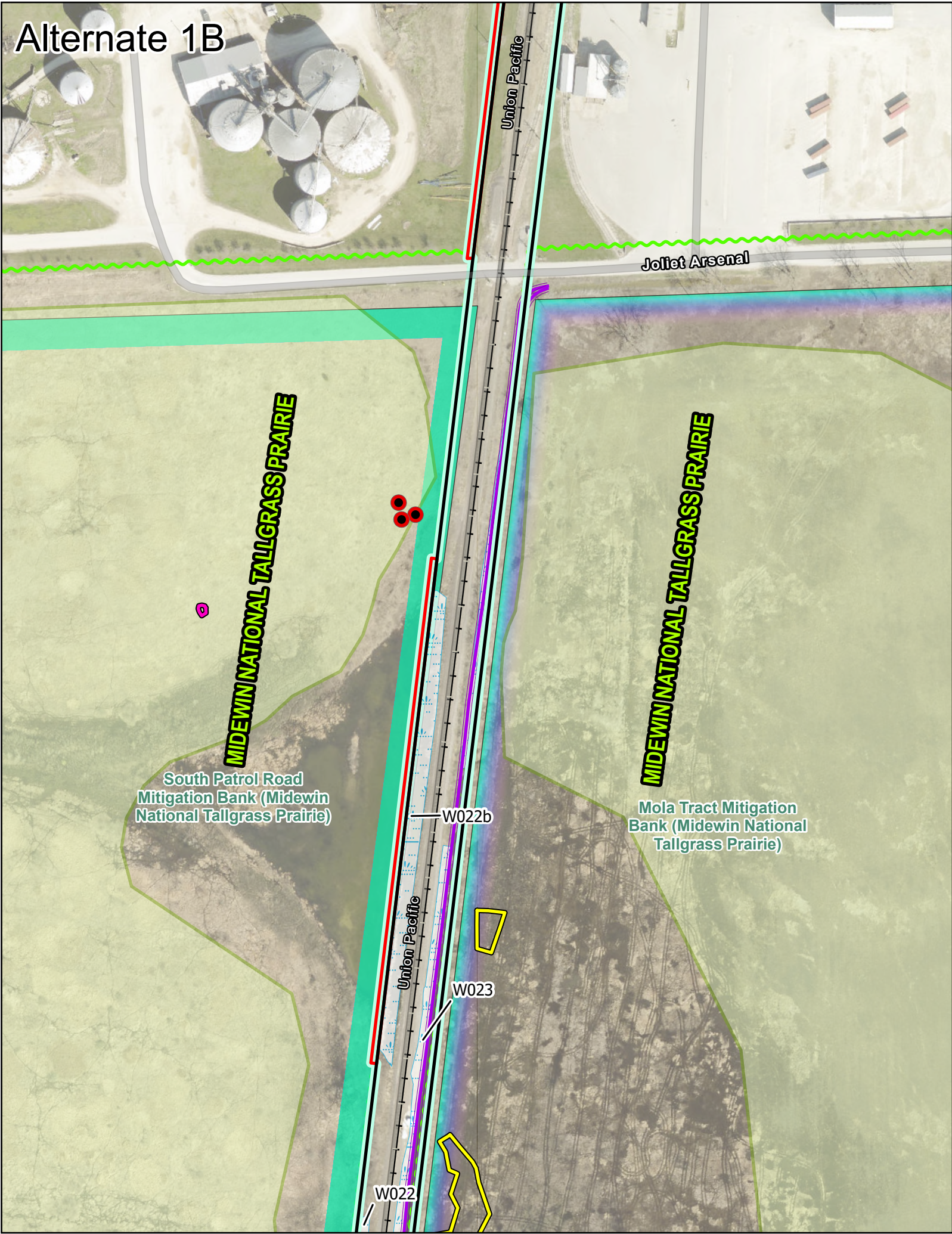
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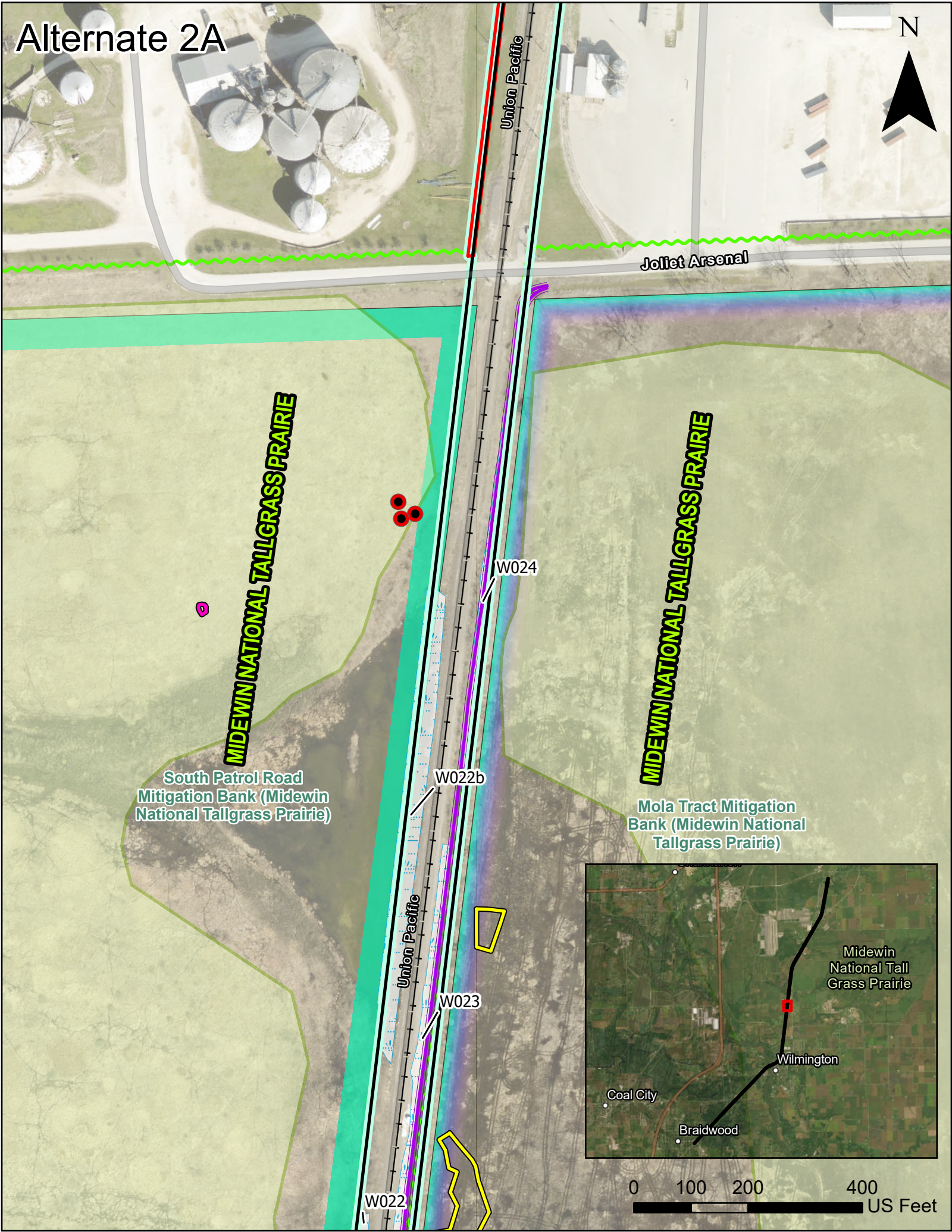
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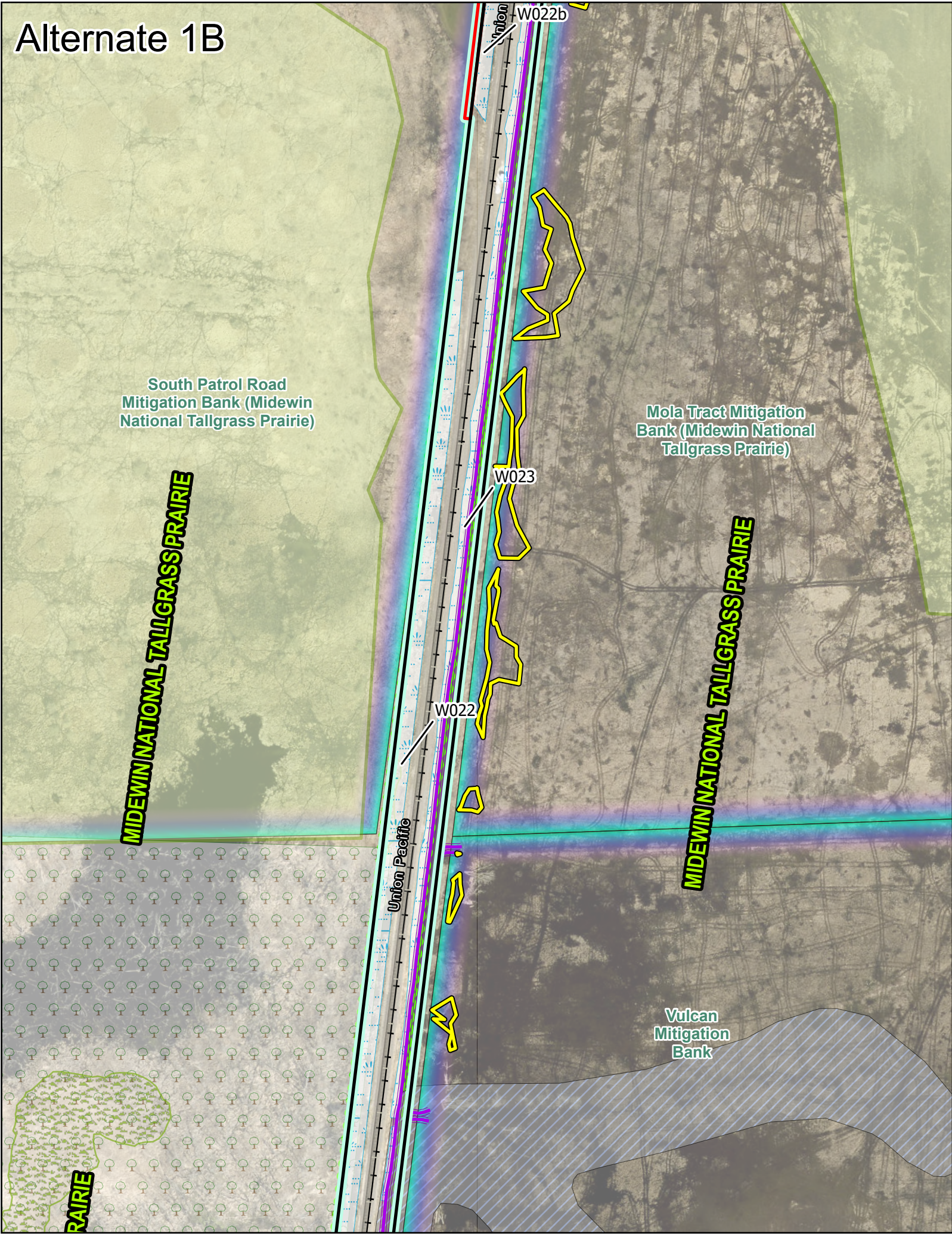
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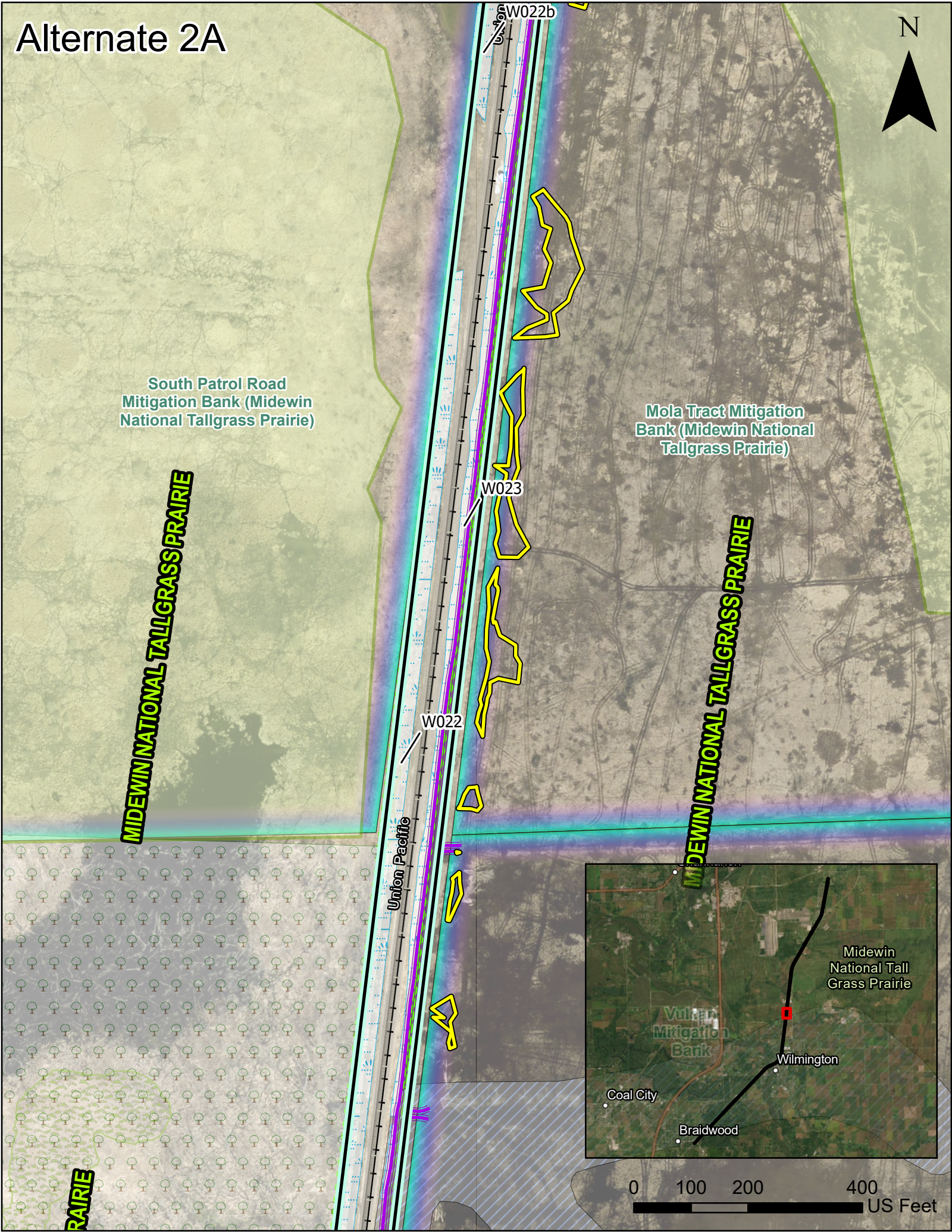
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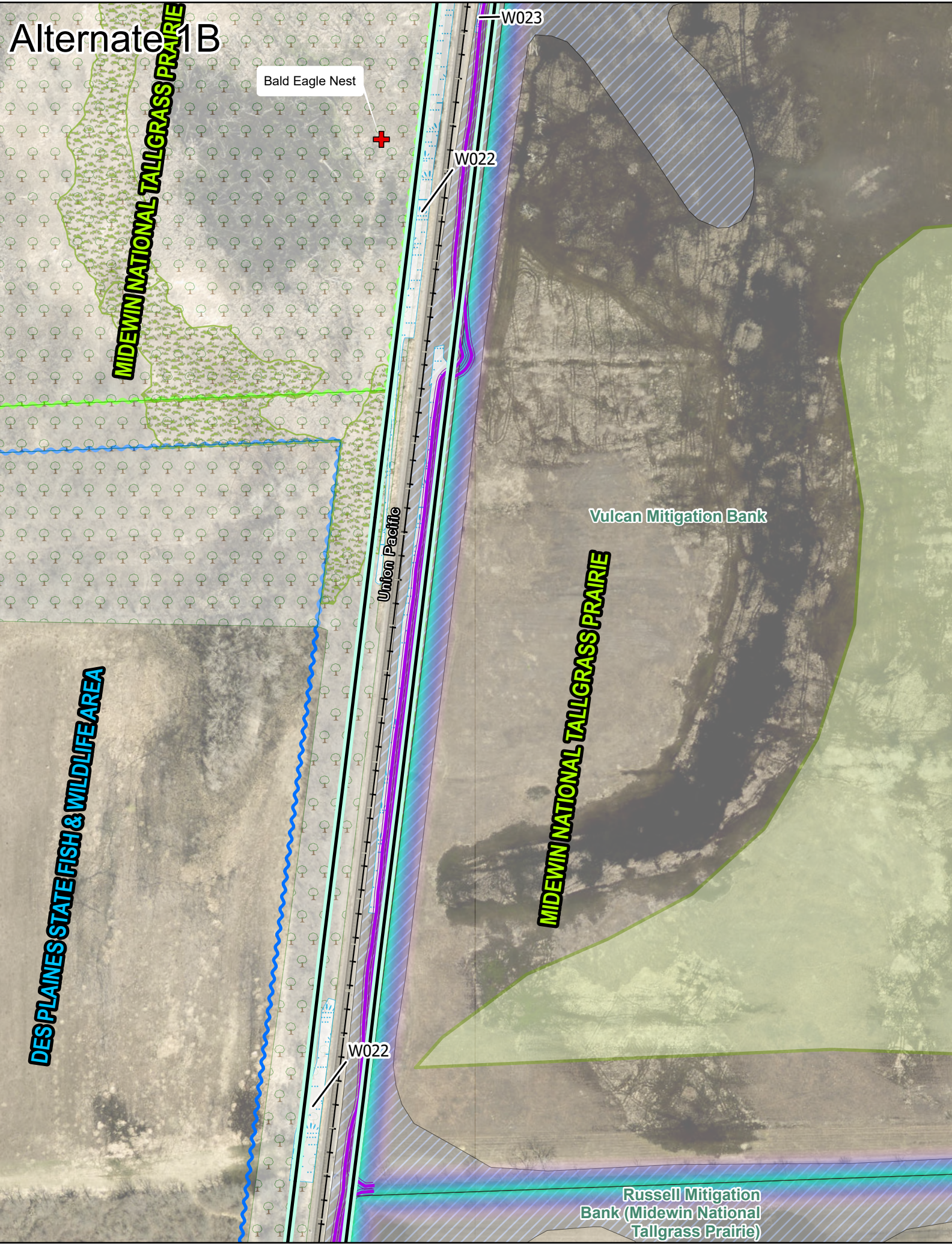
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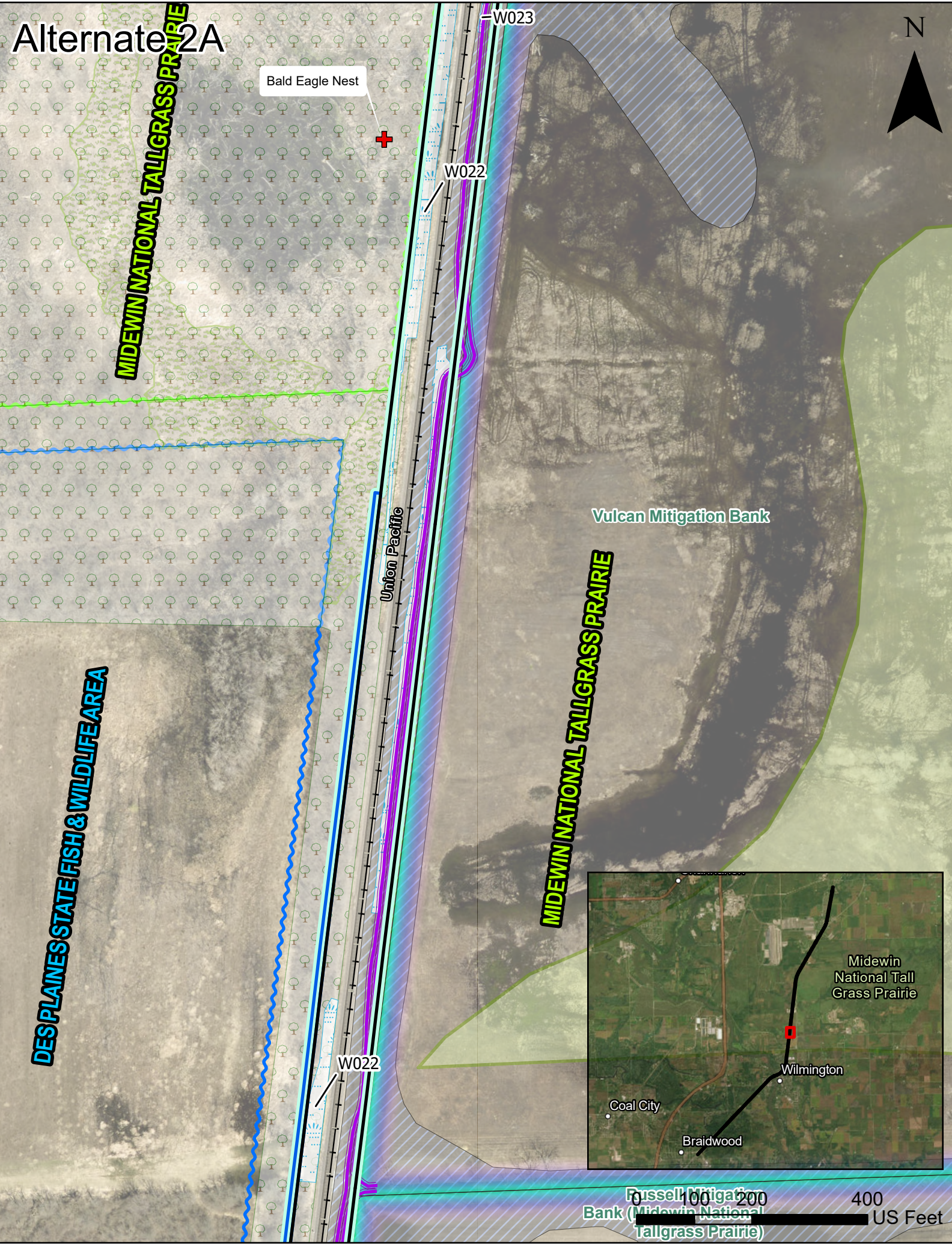
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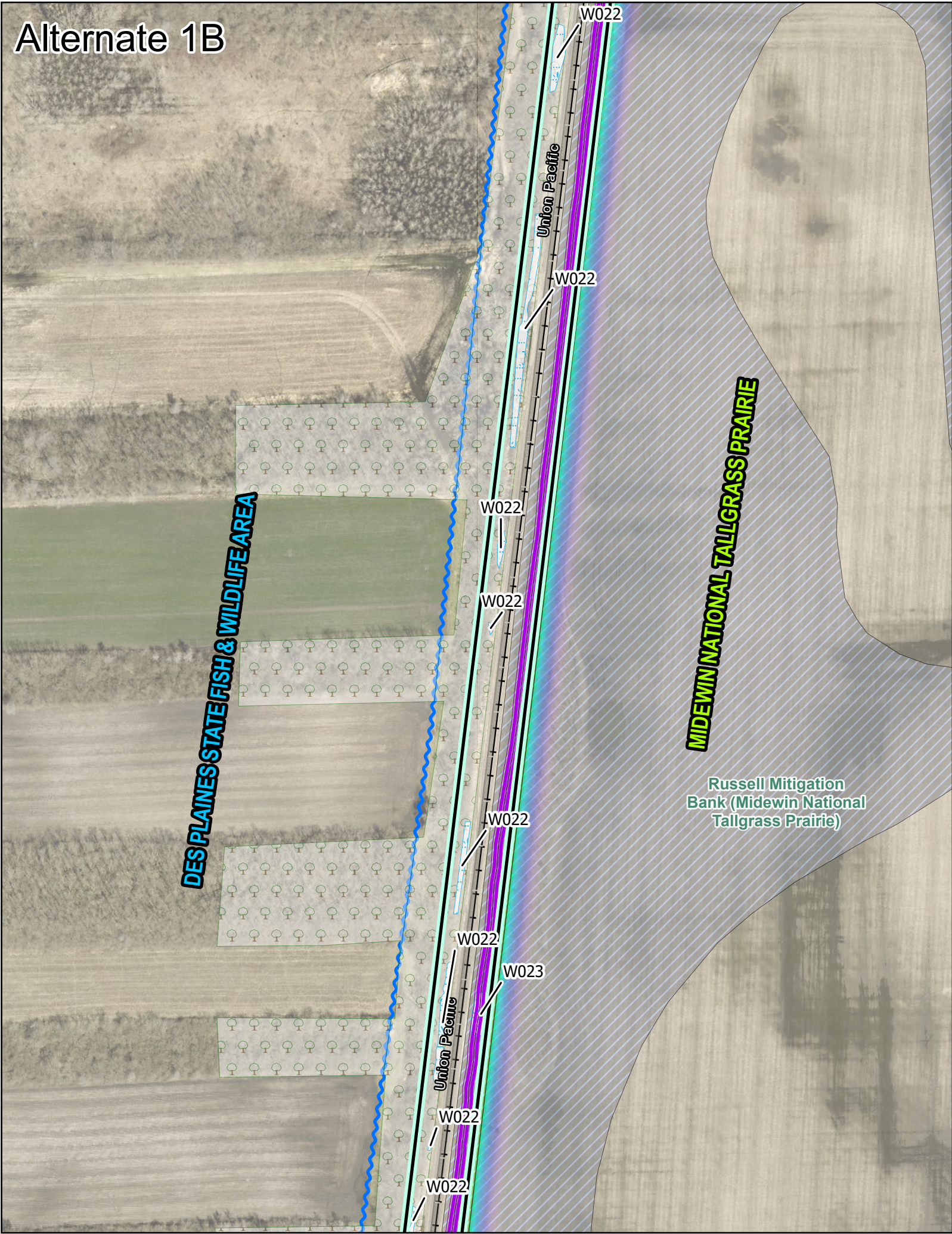
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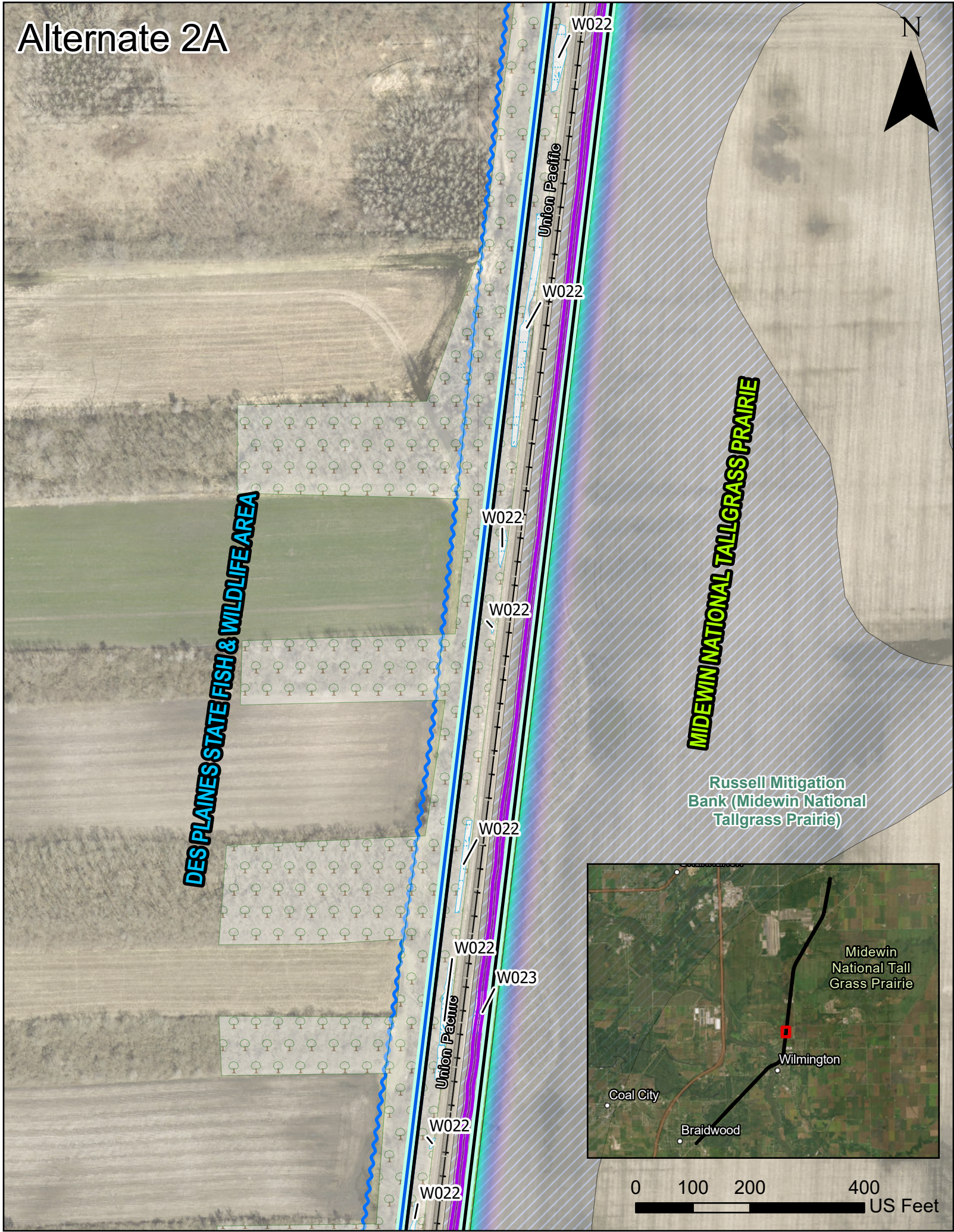
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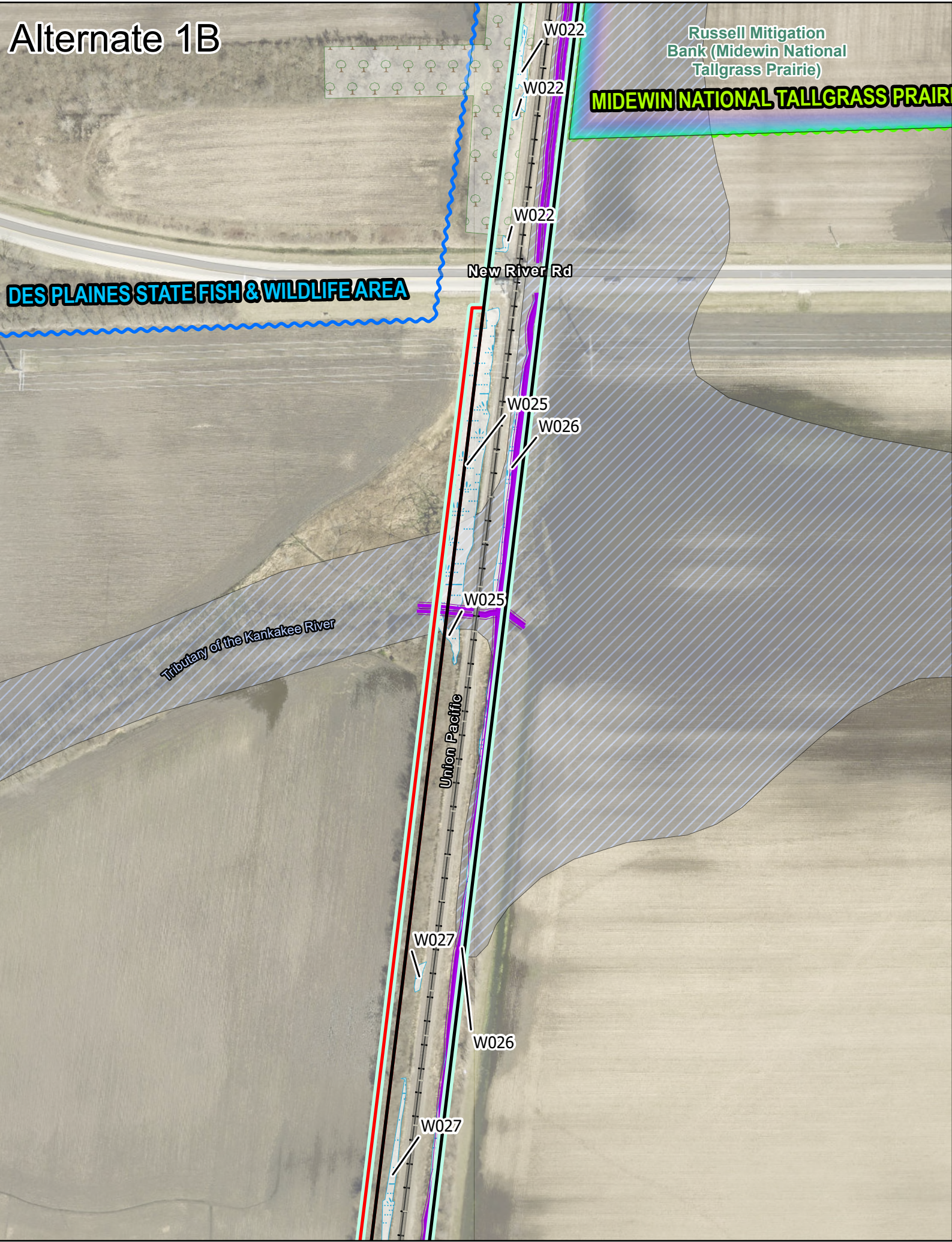
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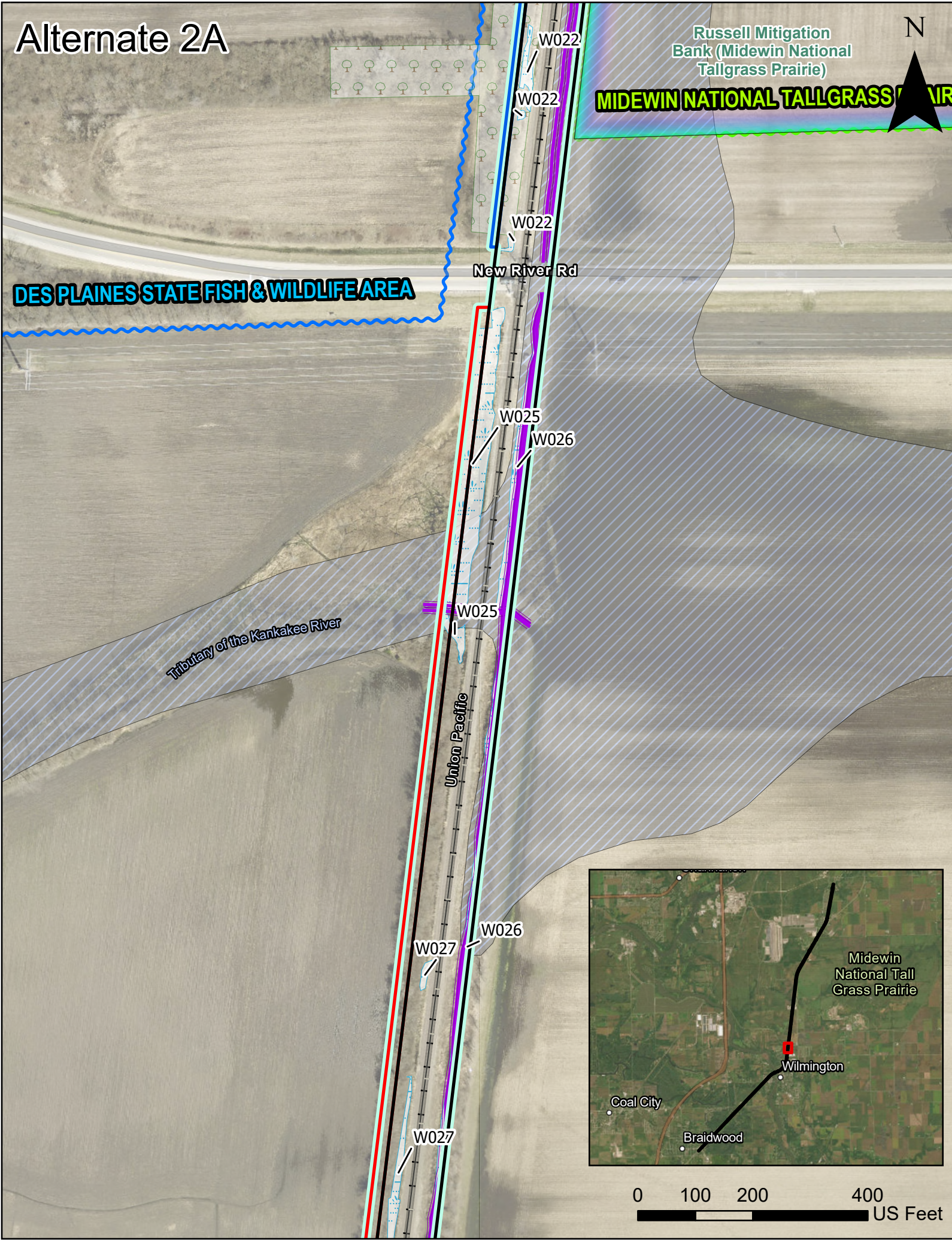
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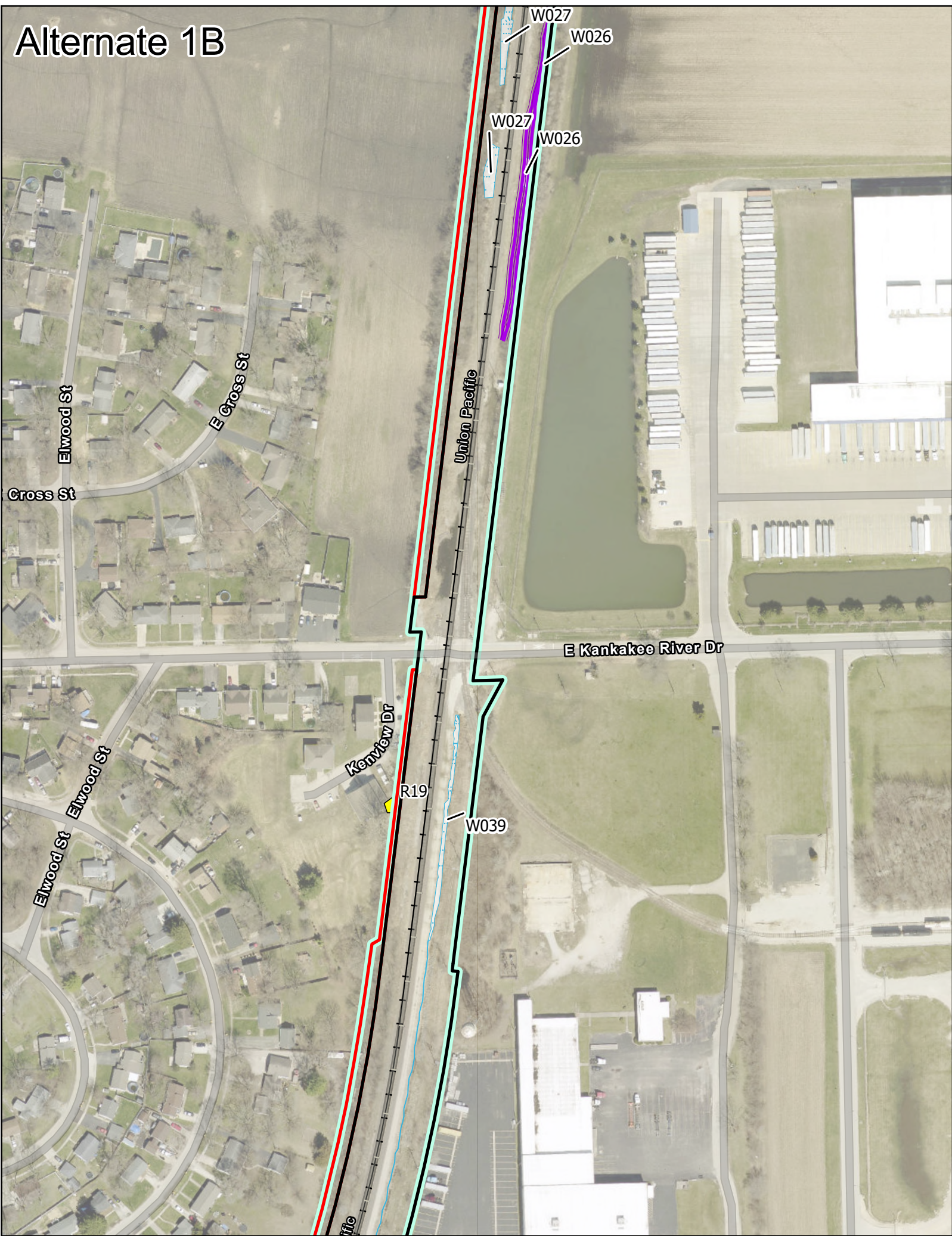
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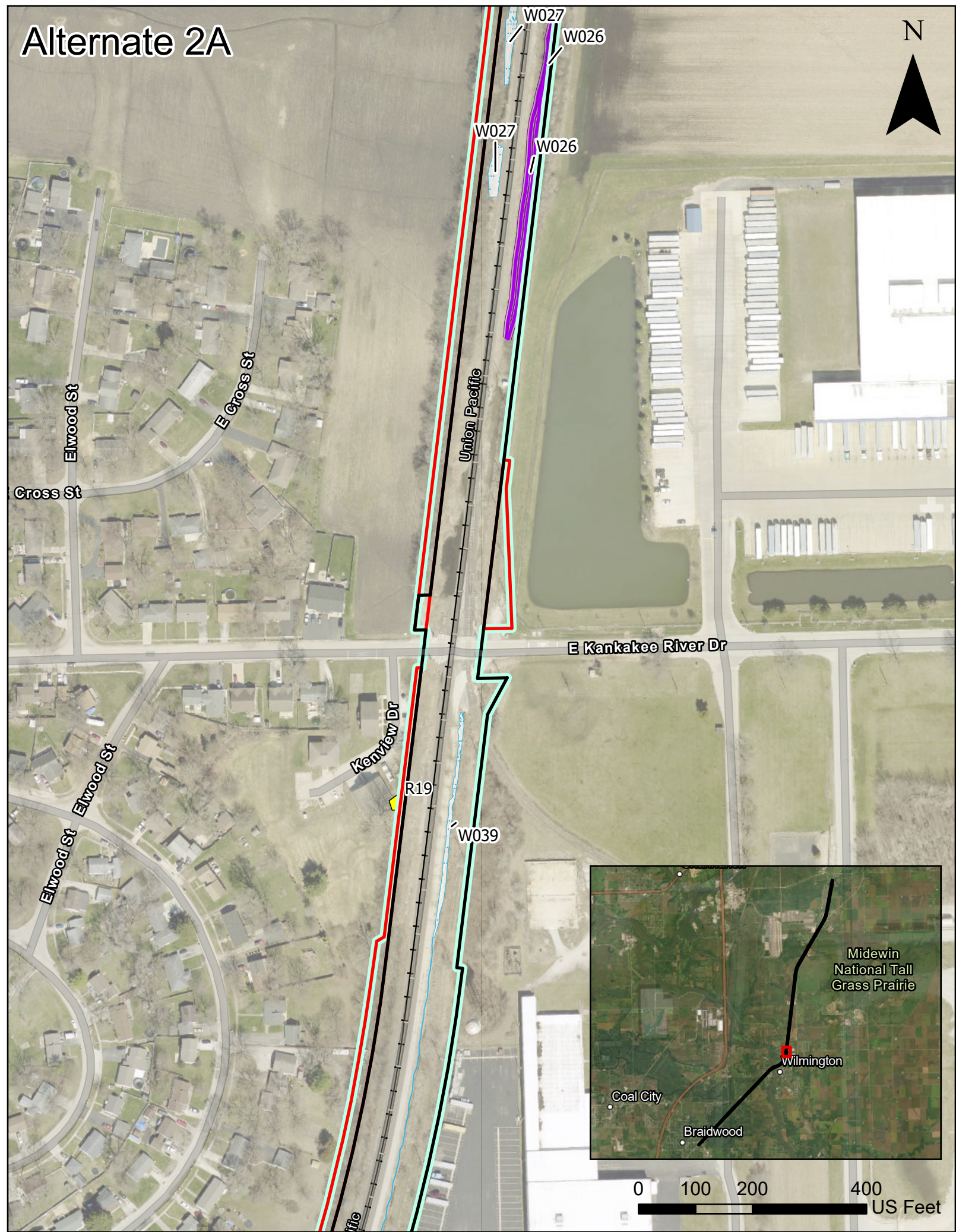
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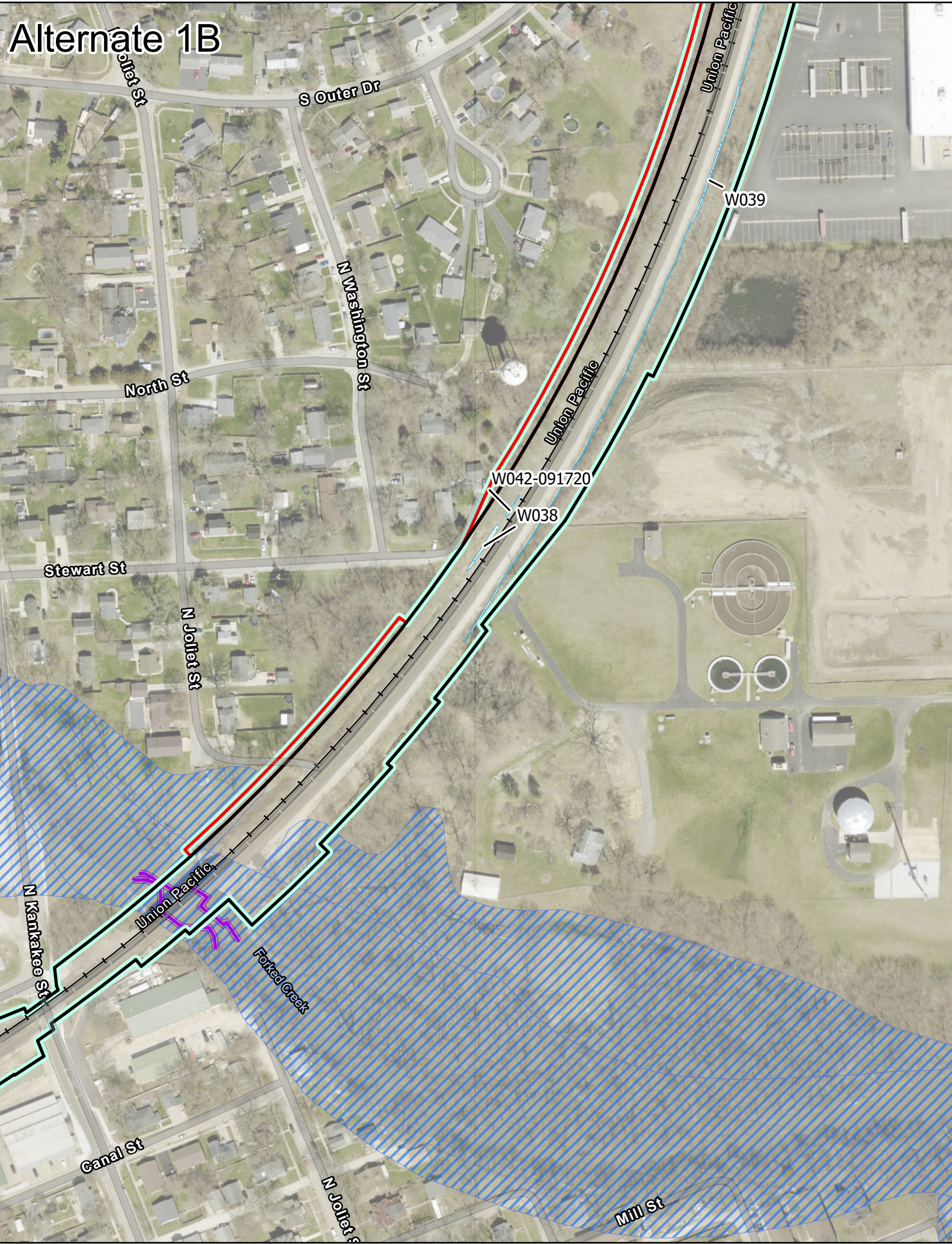


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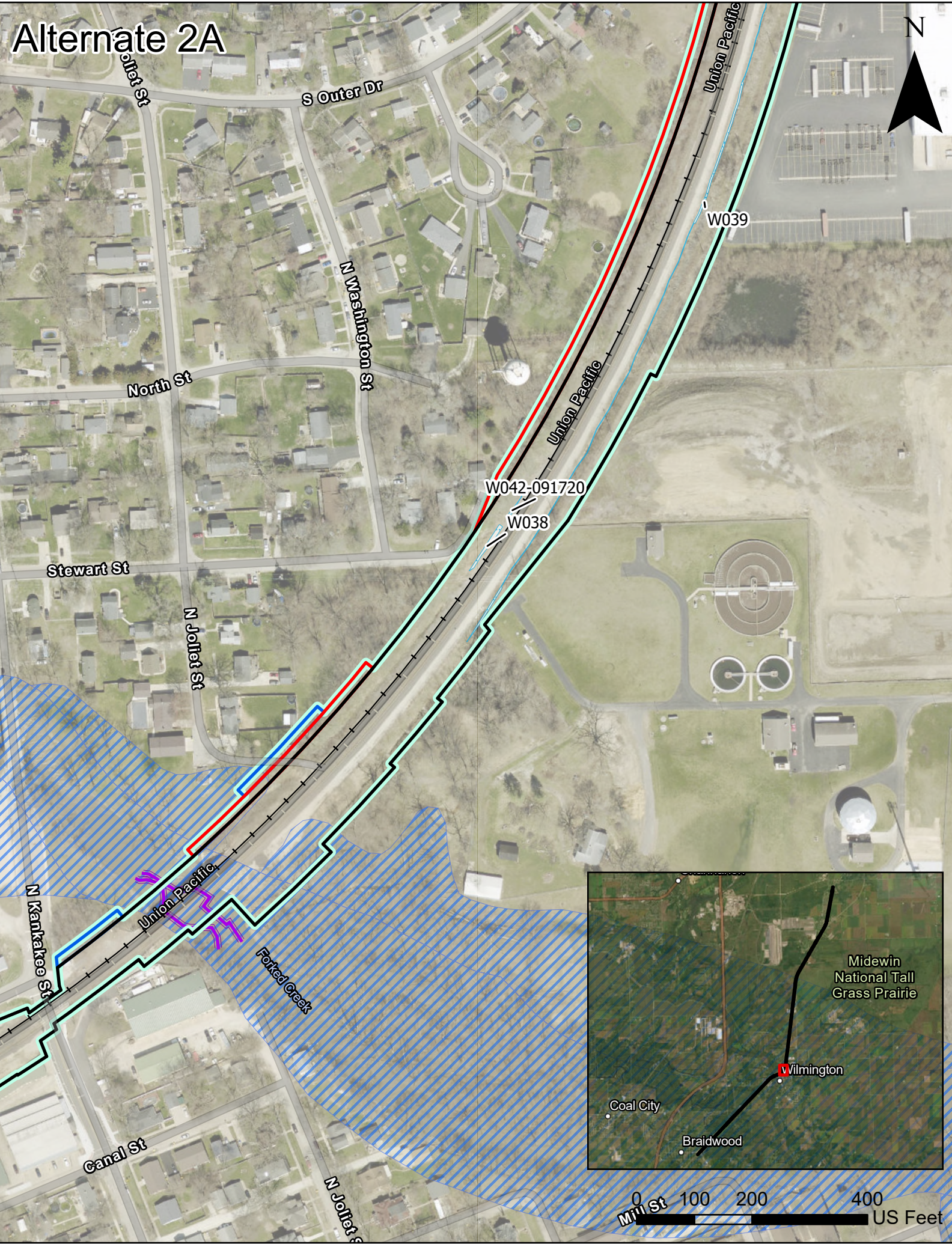


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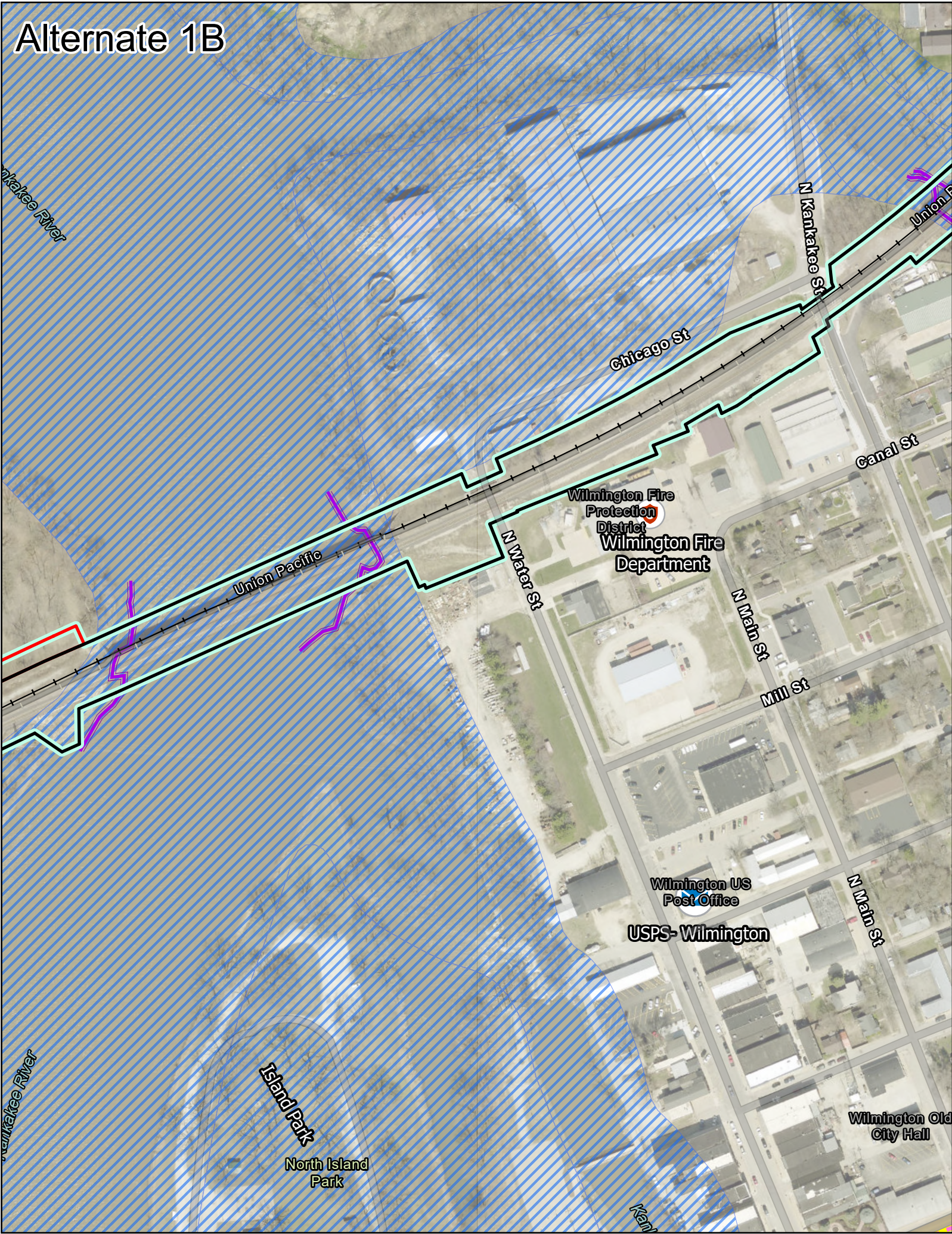
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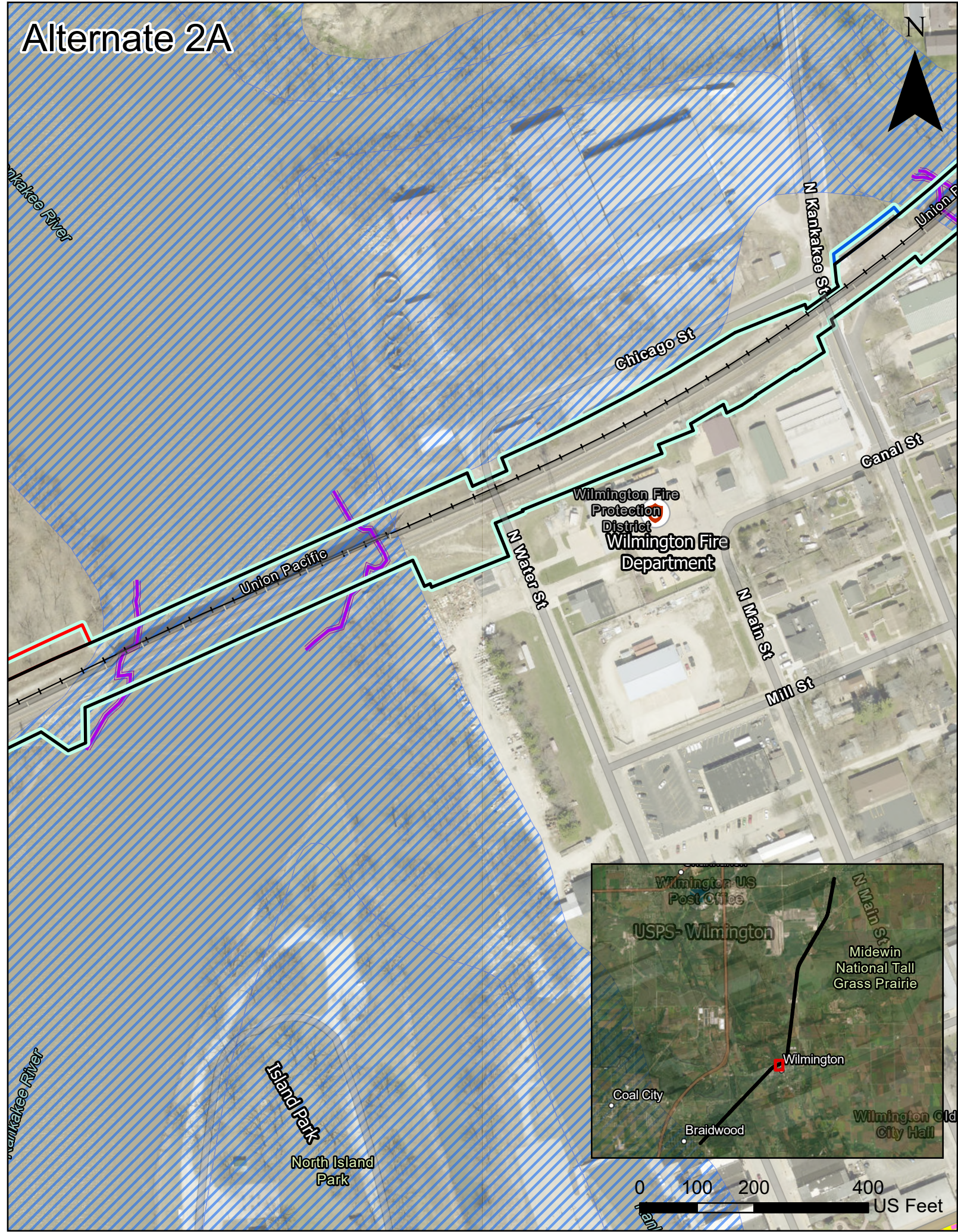
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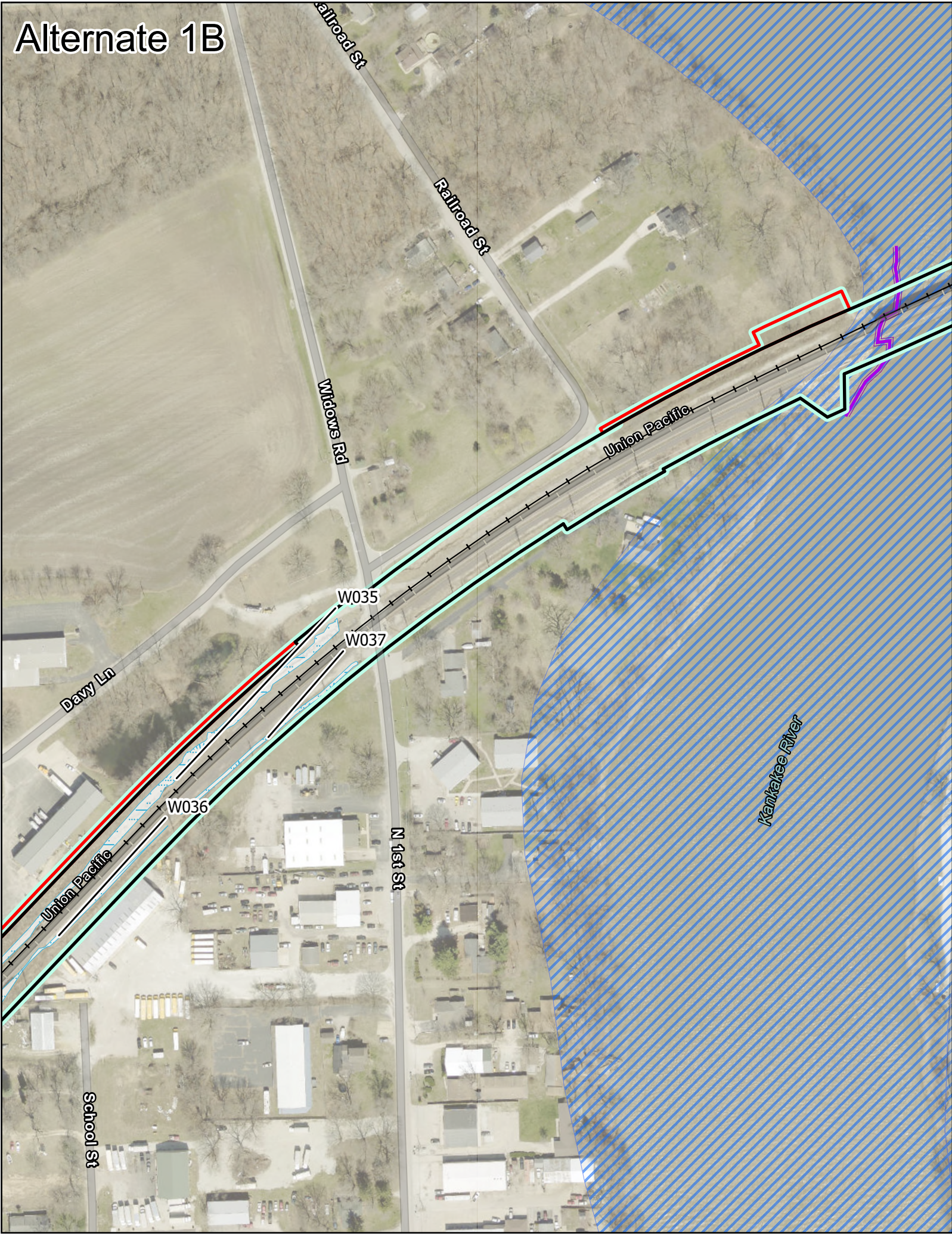
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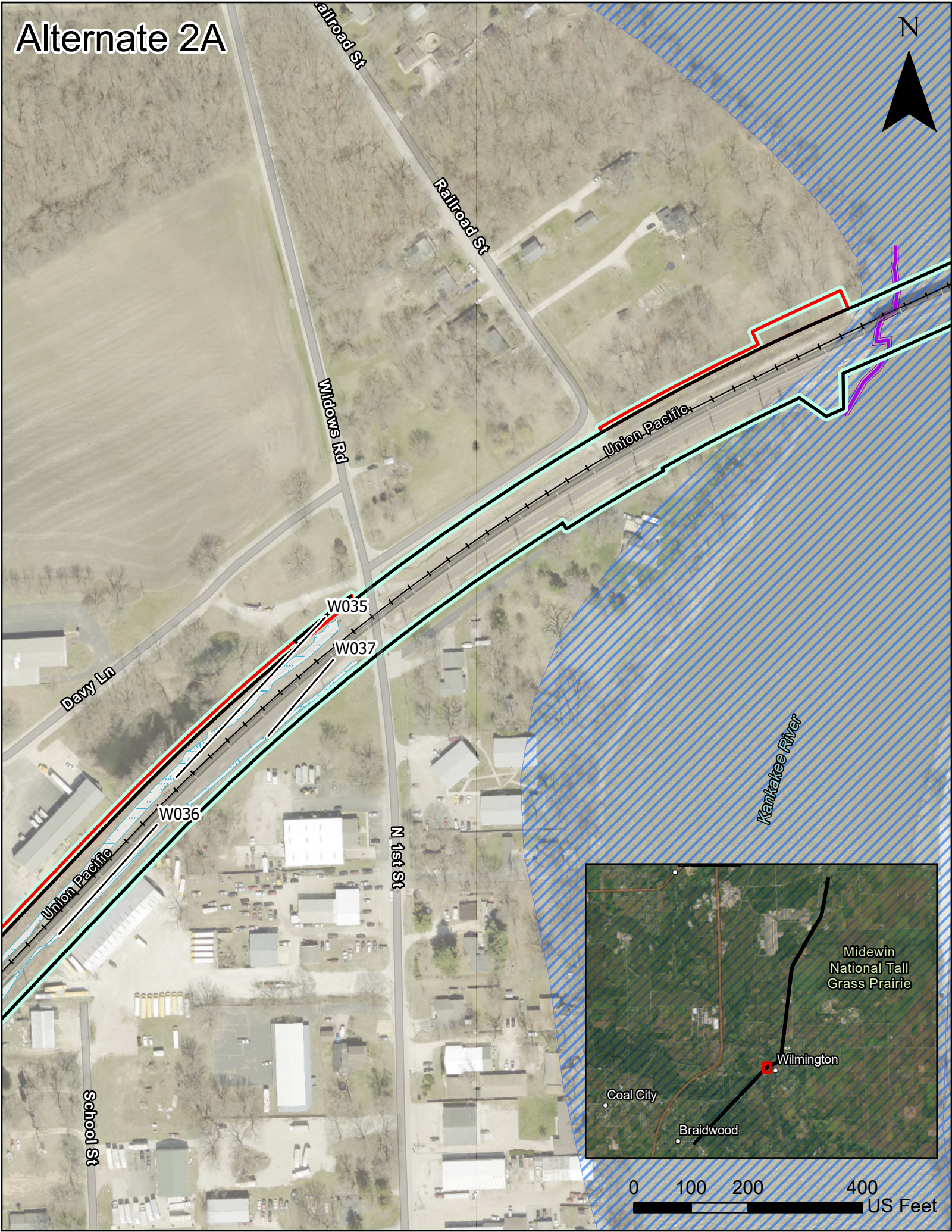
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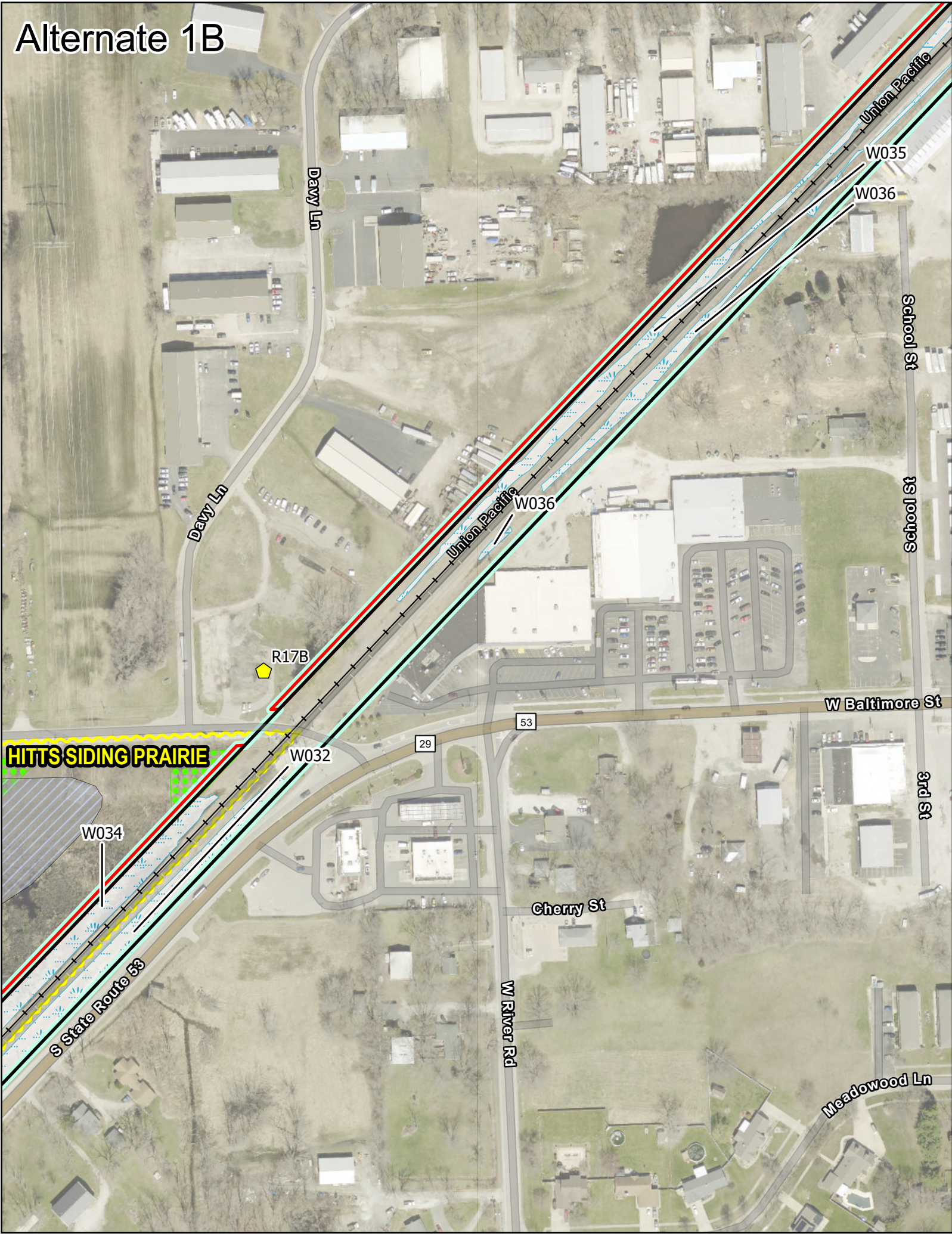
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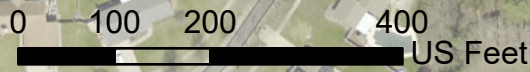
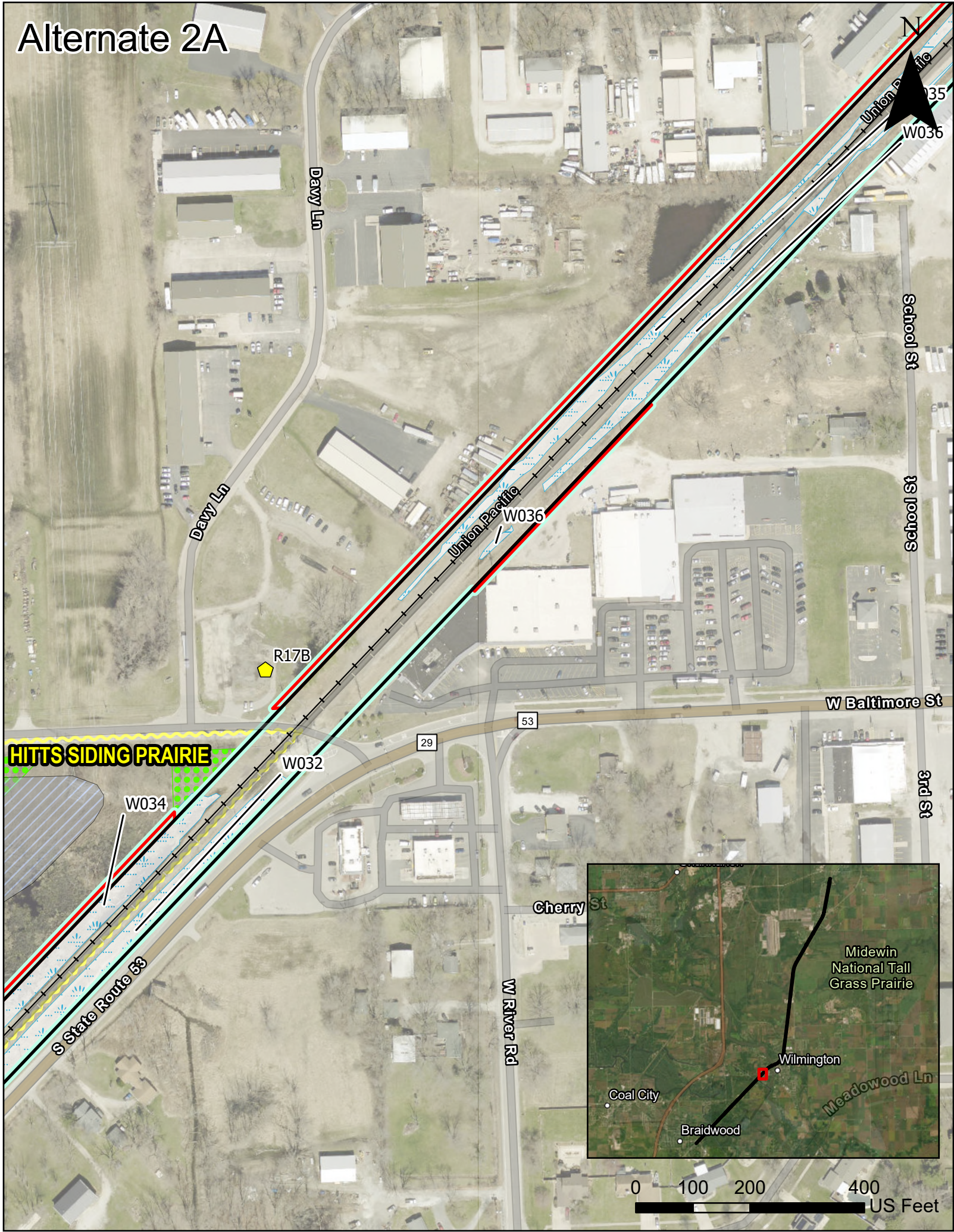
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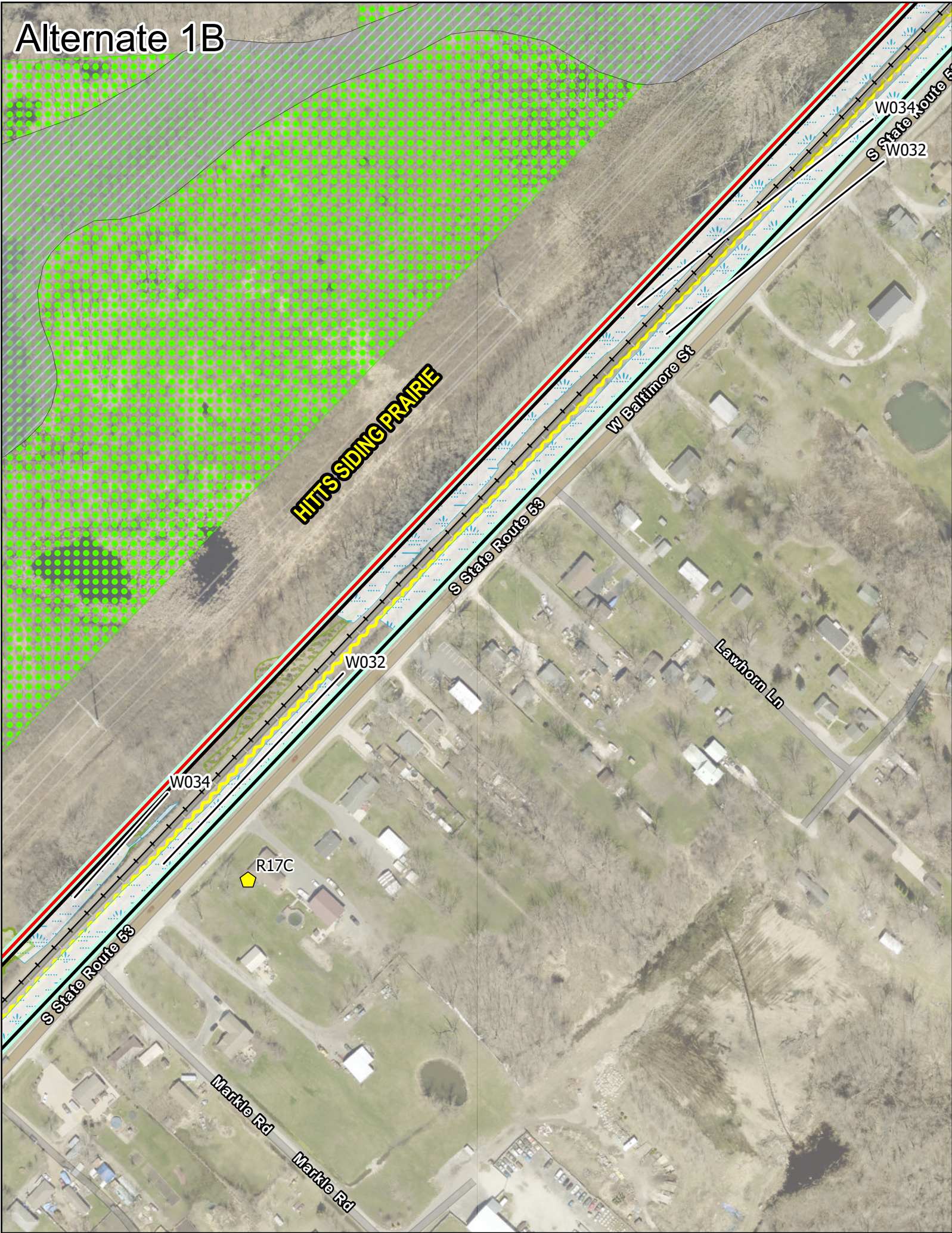
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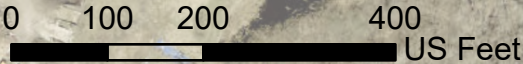
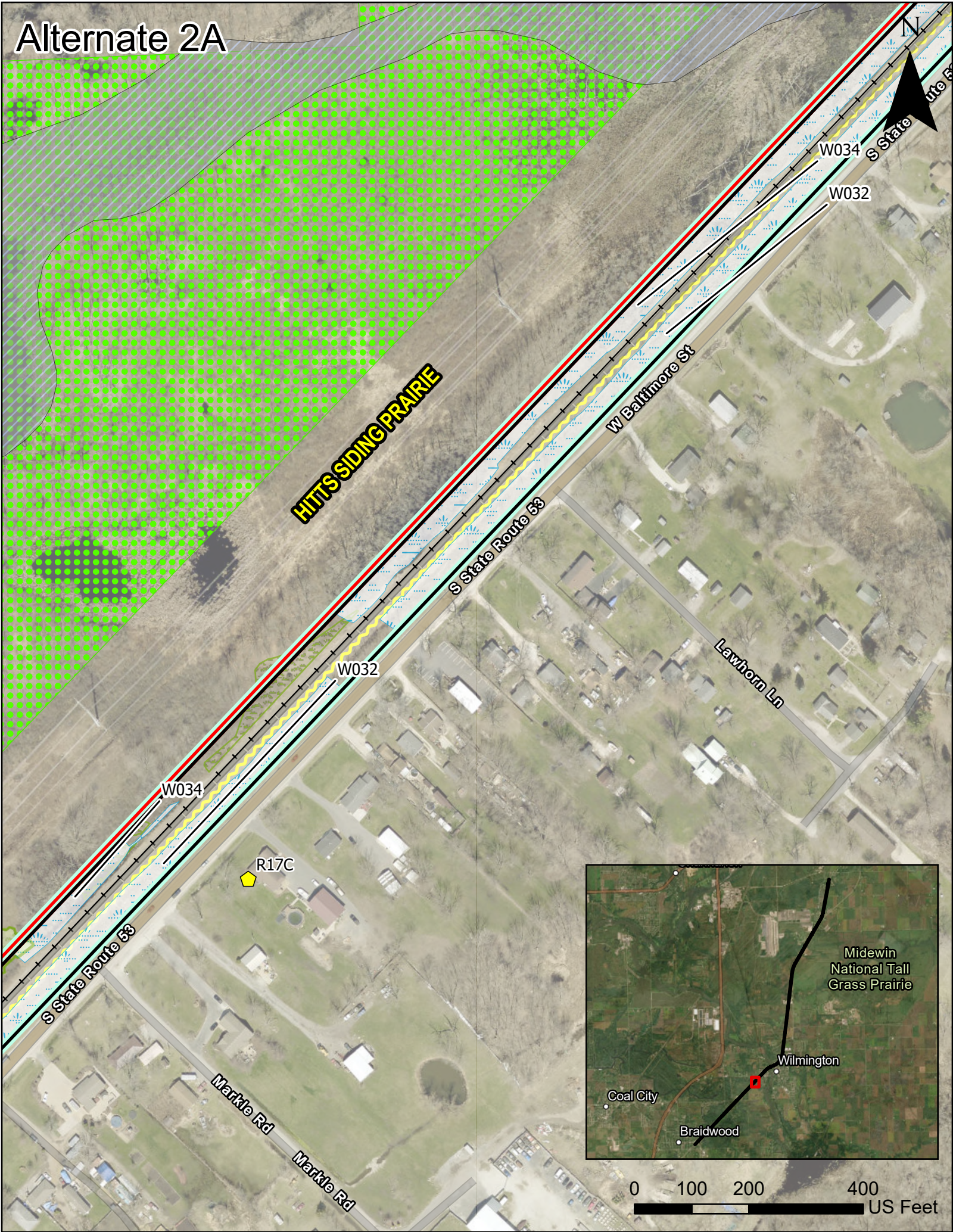
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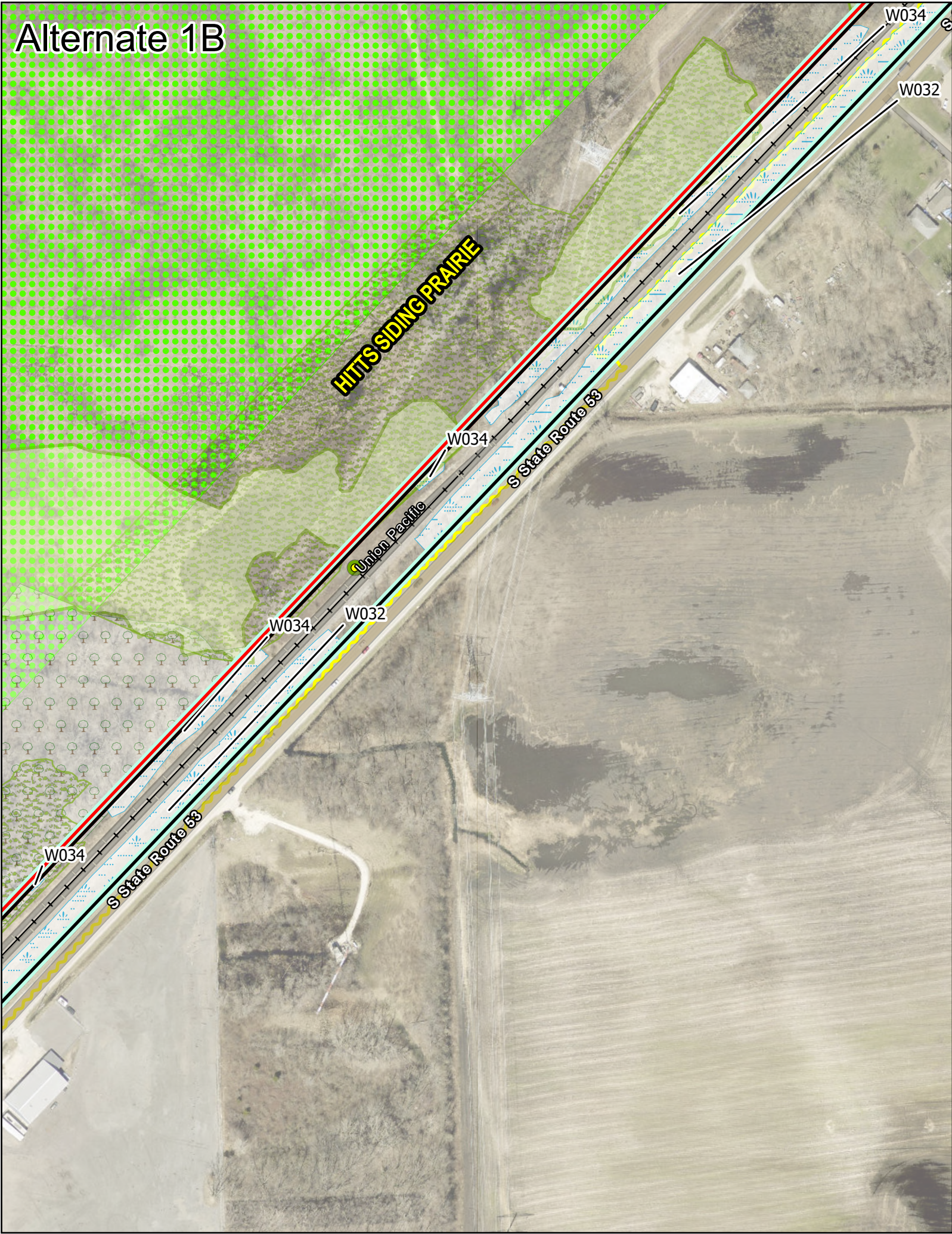
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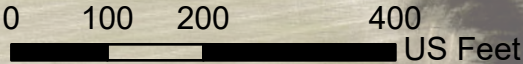
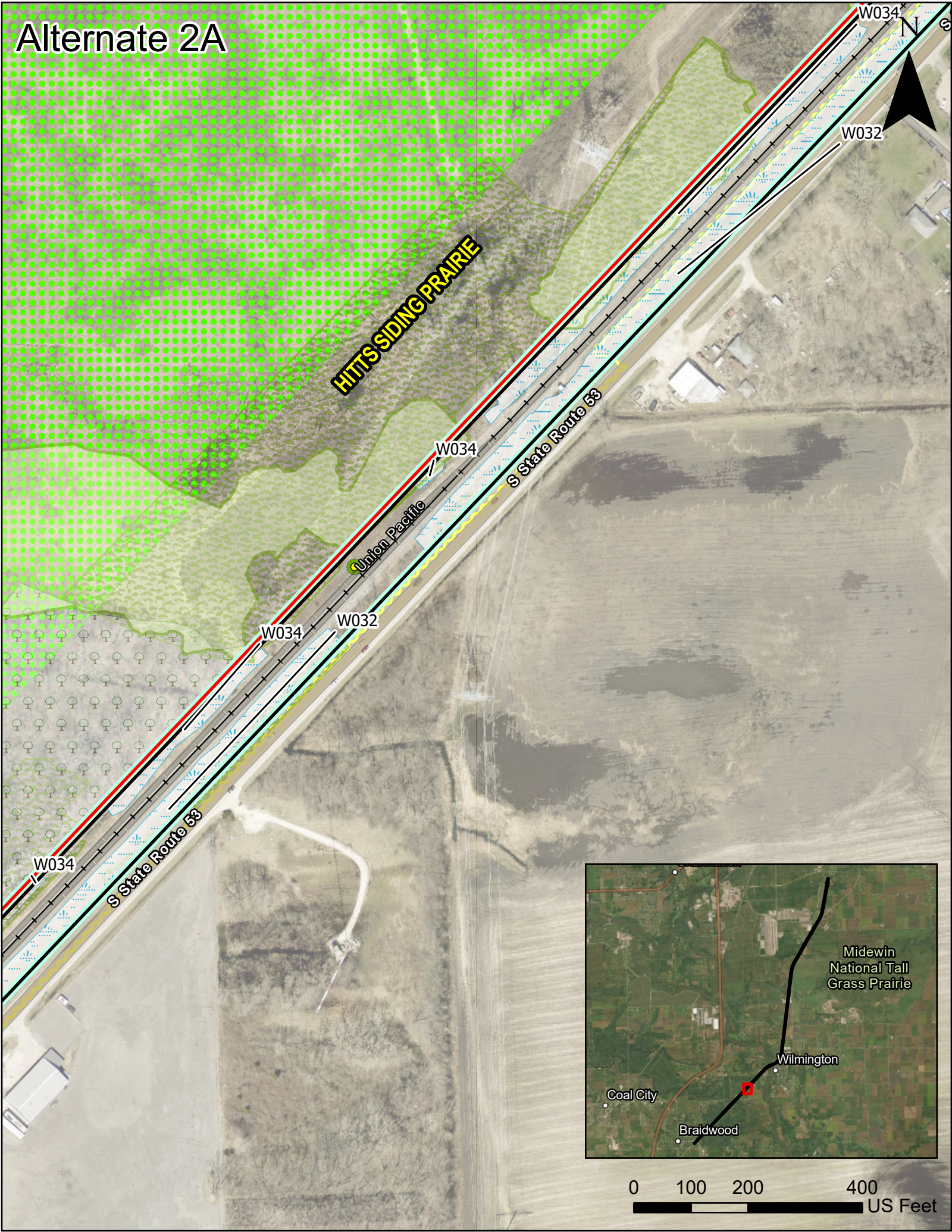
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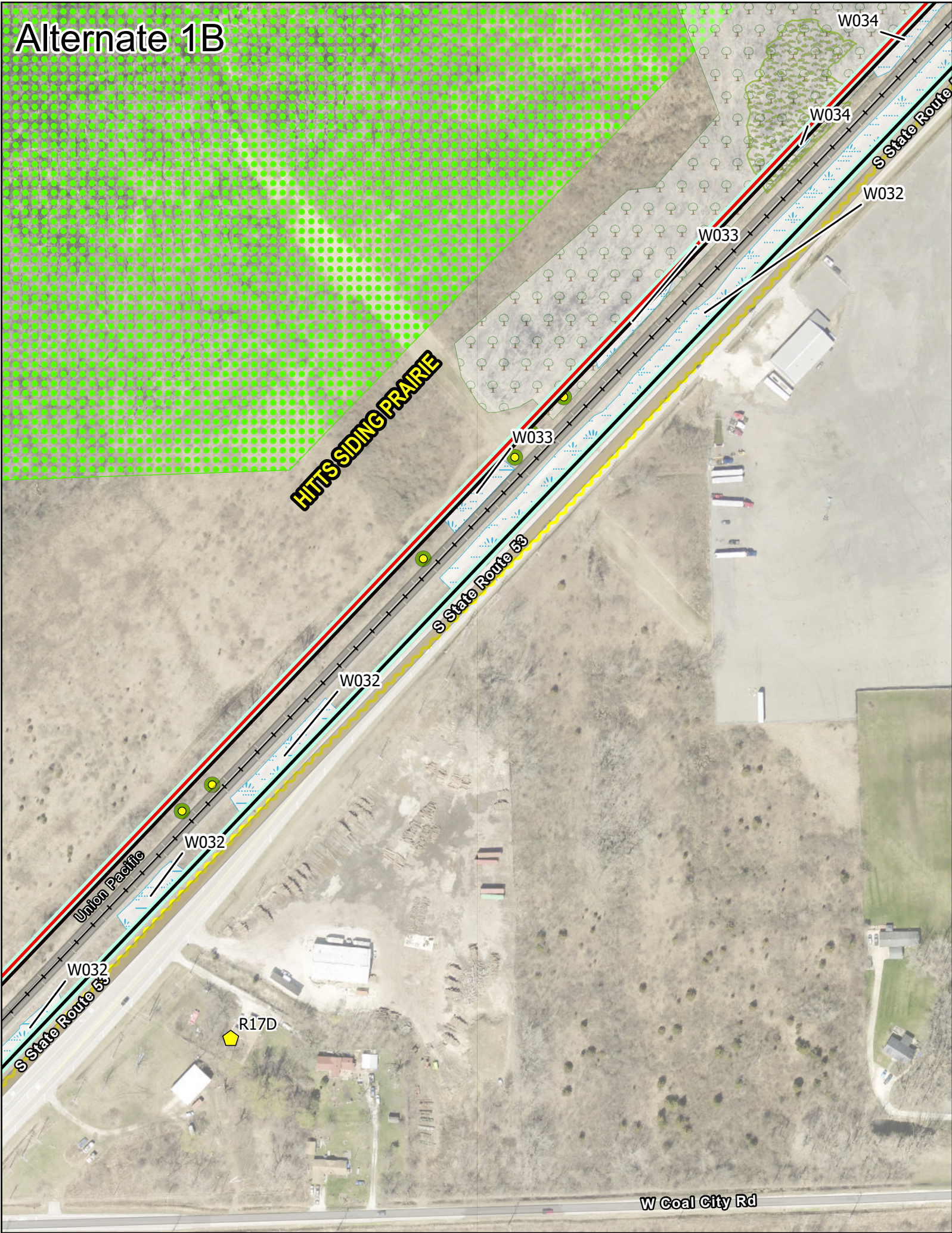
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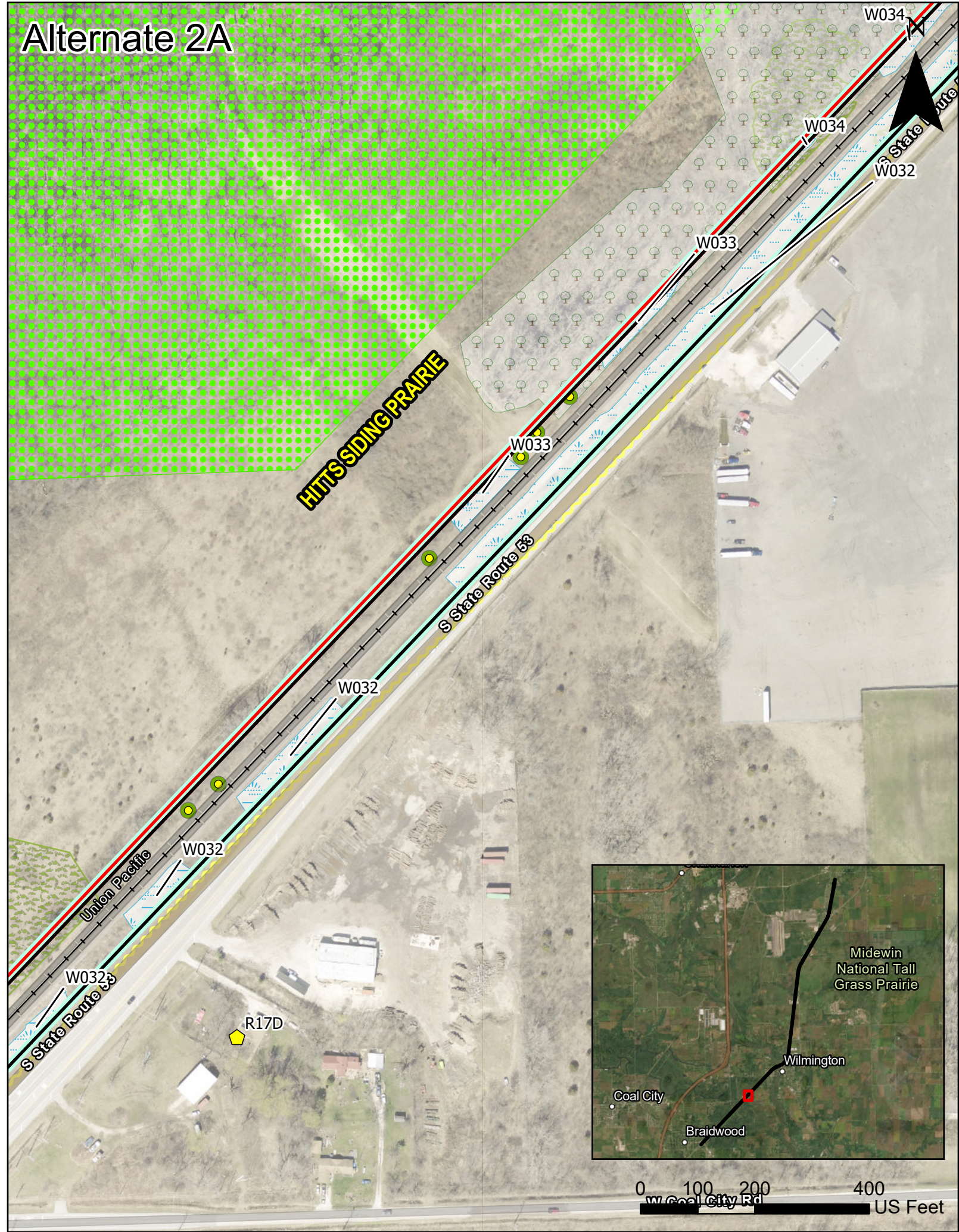
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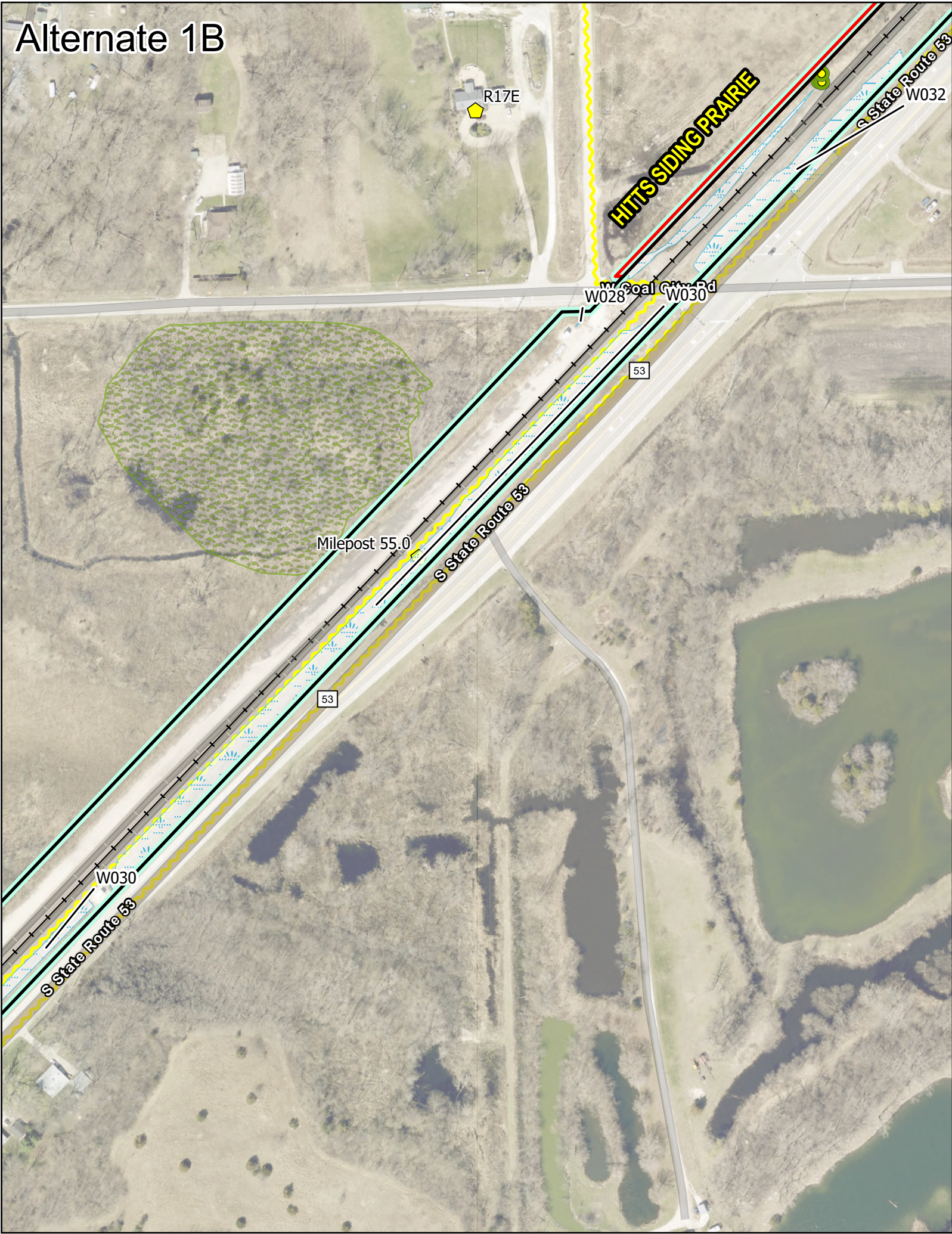
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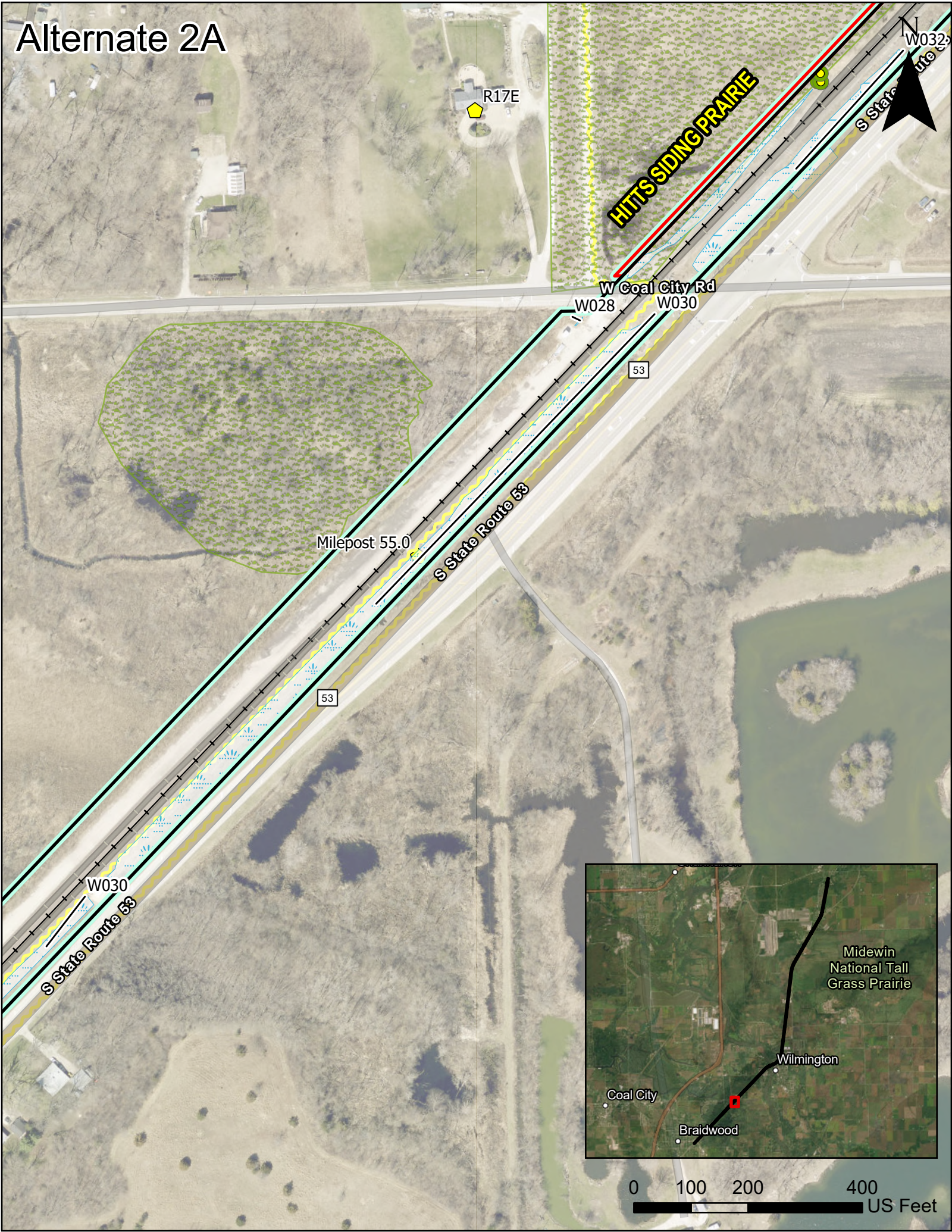
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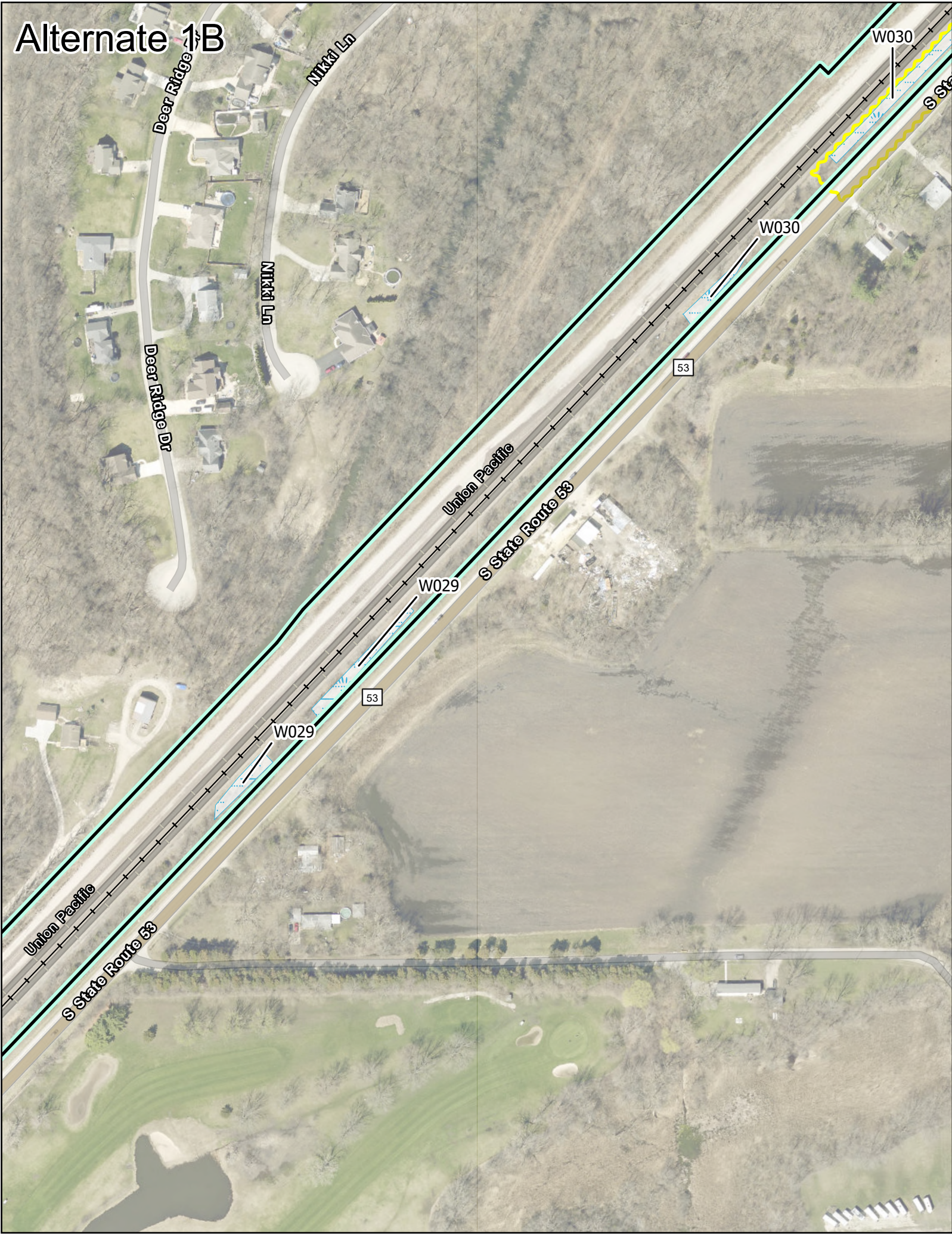
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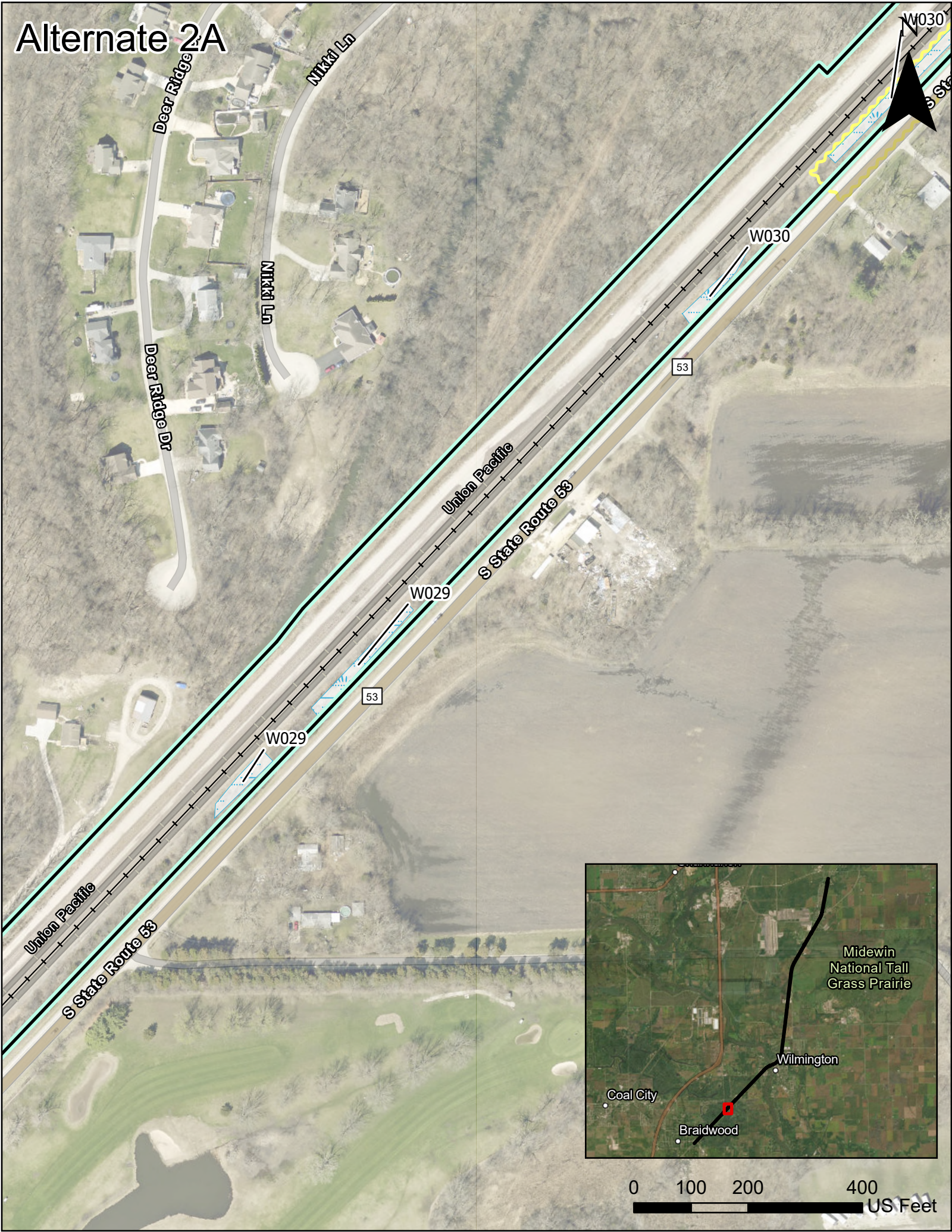
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Alternate 1B



Alternate 2A



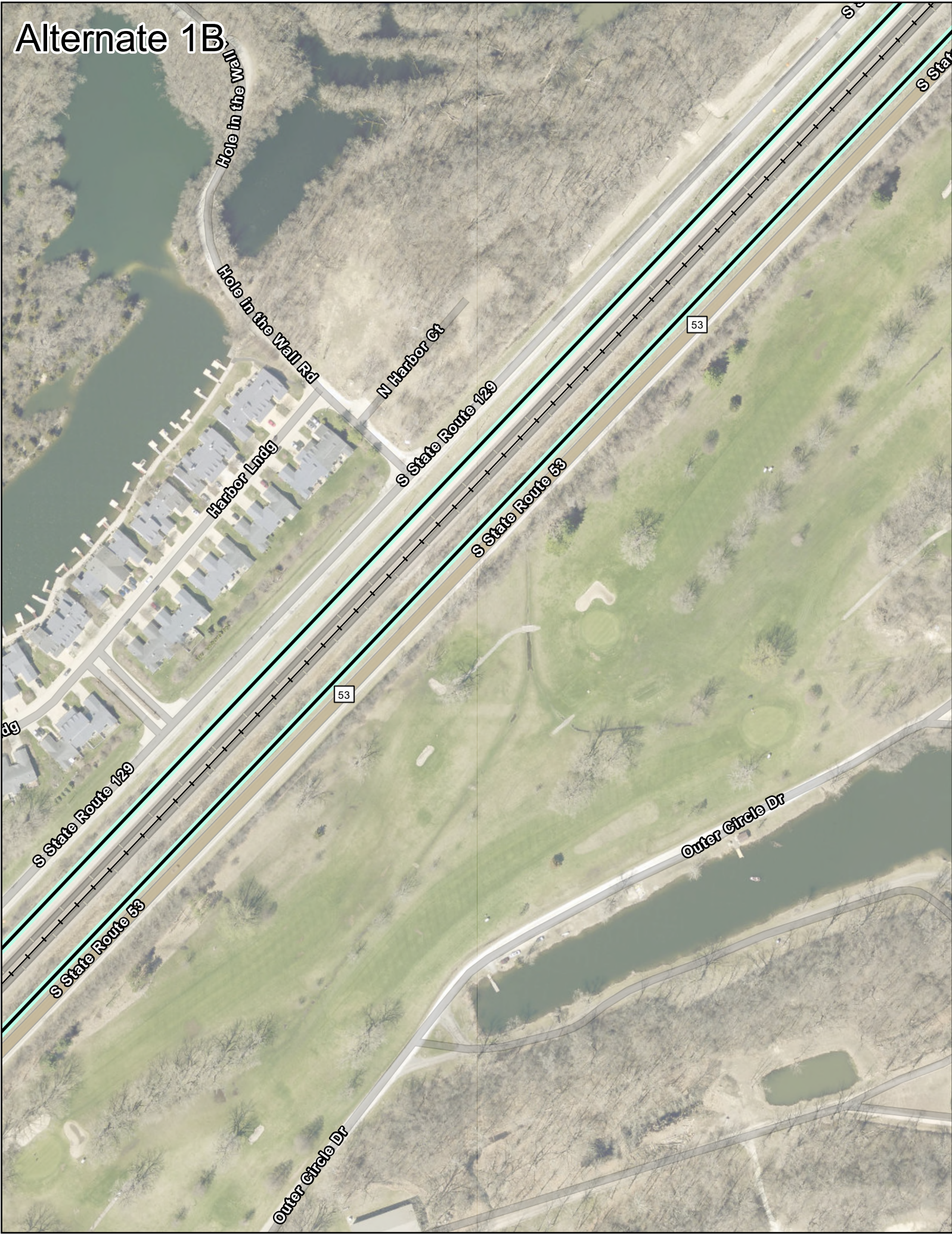
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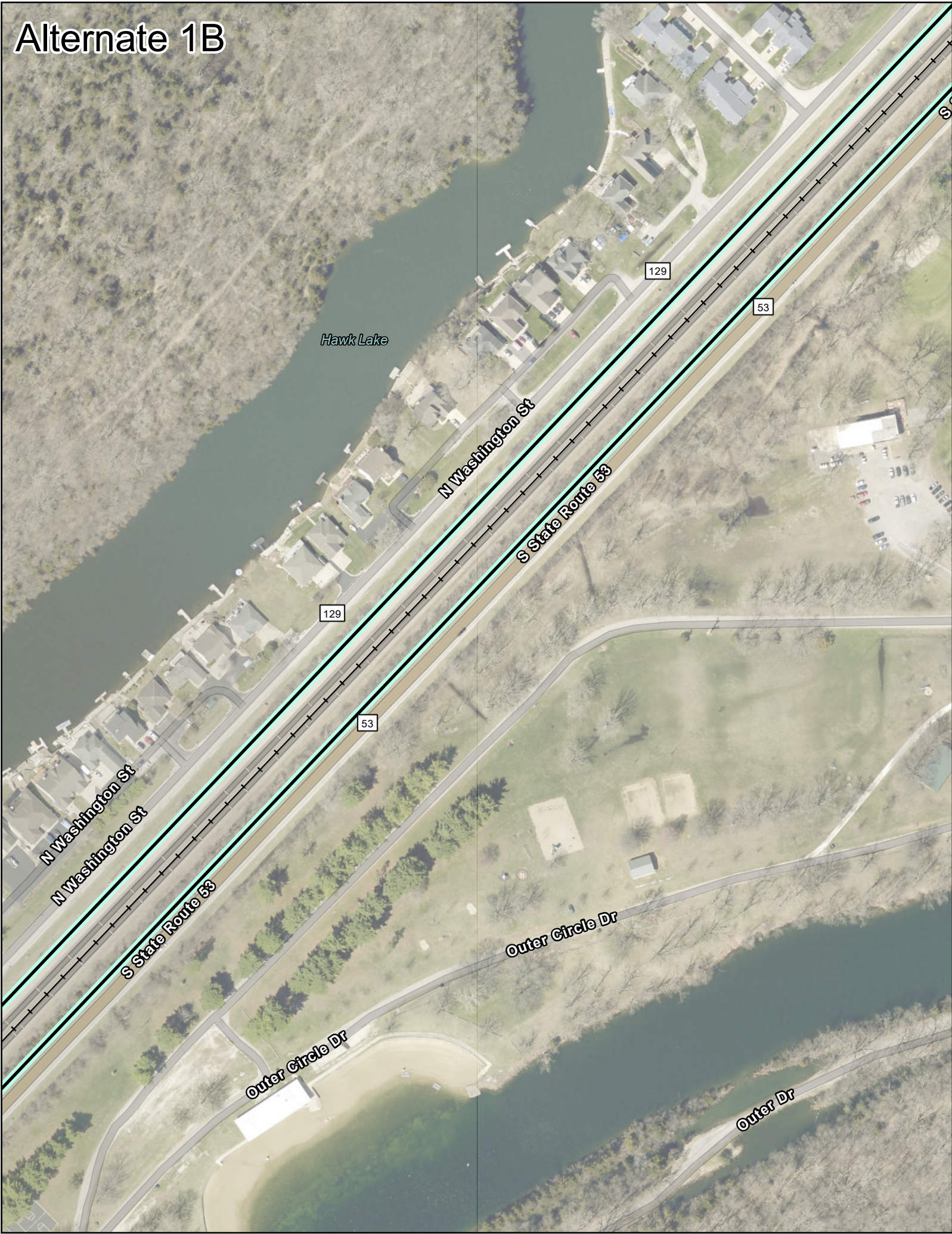
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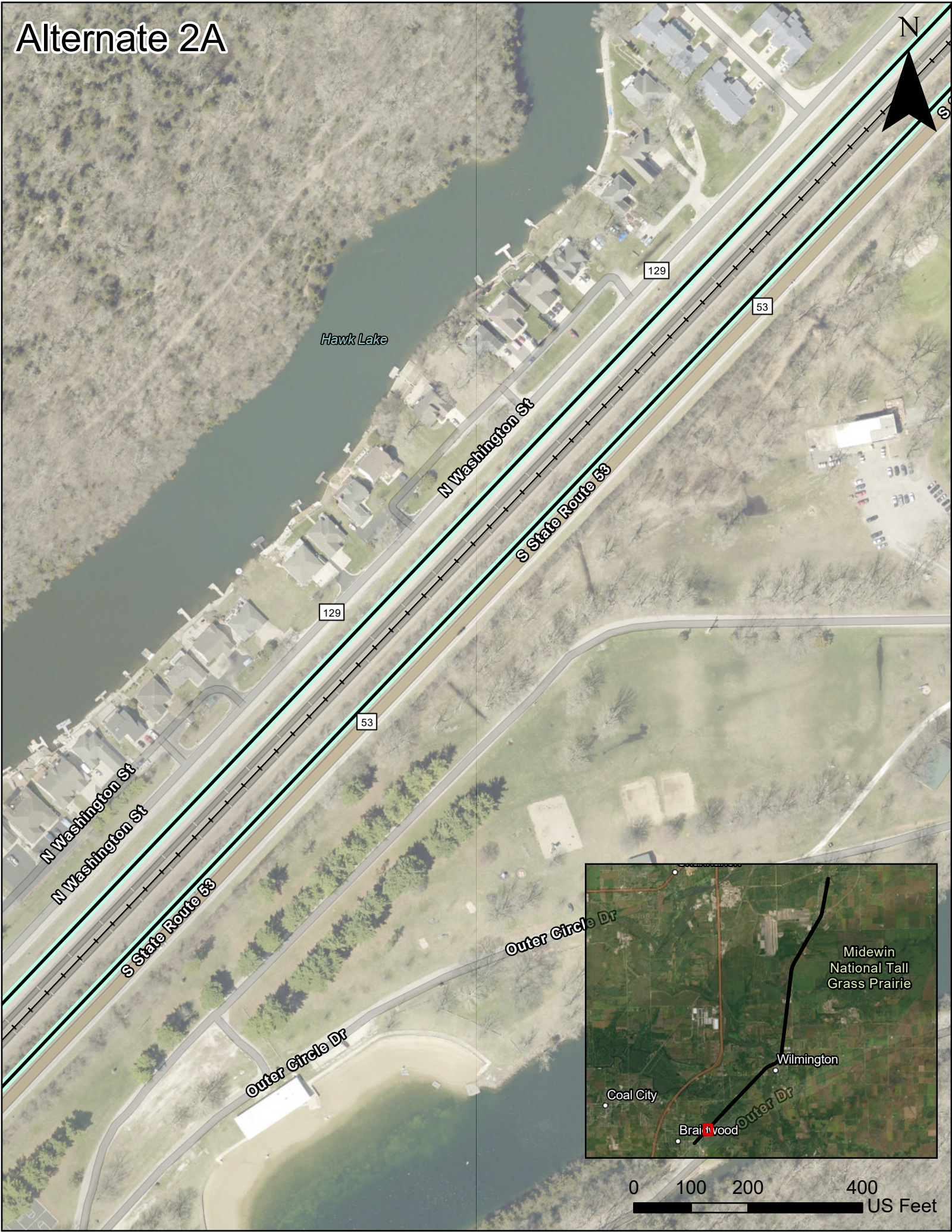
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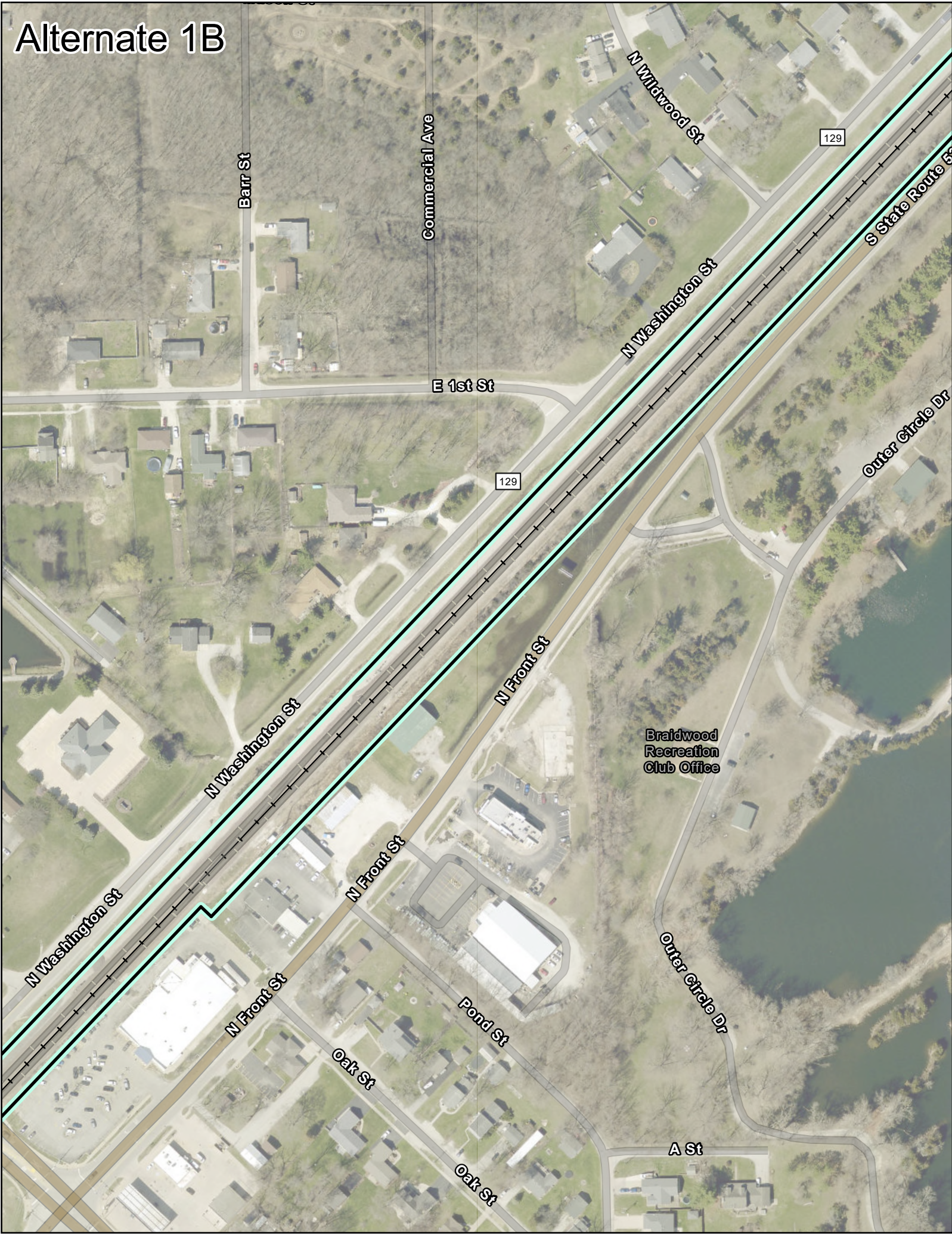
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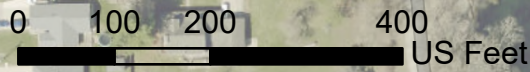
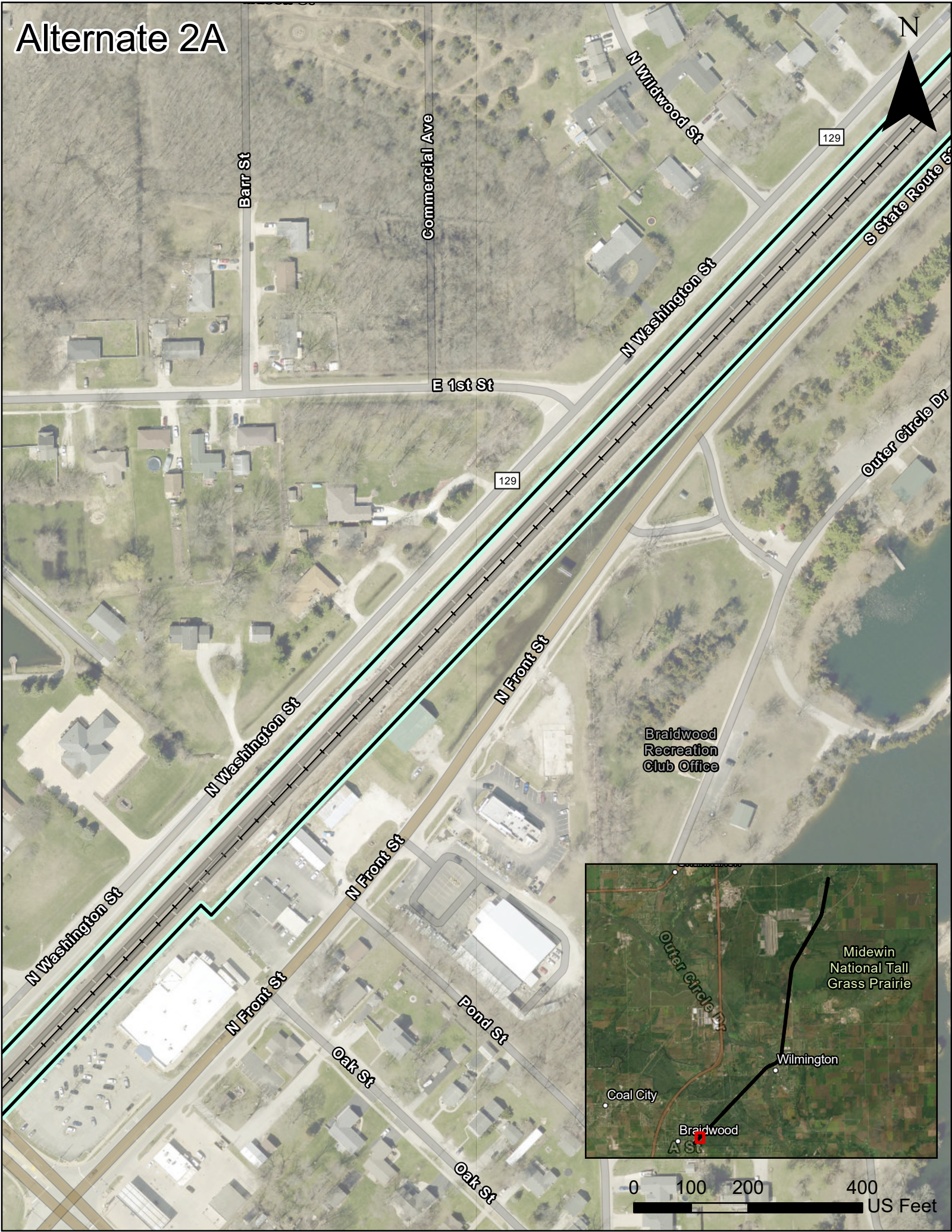
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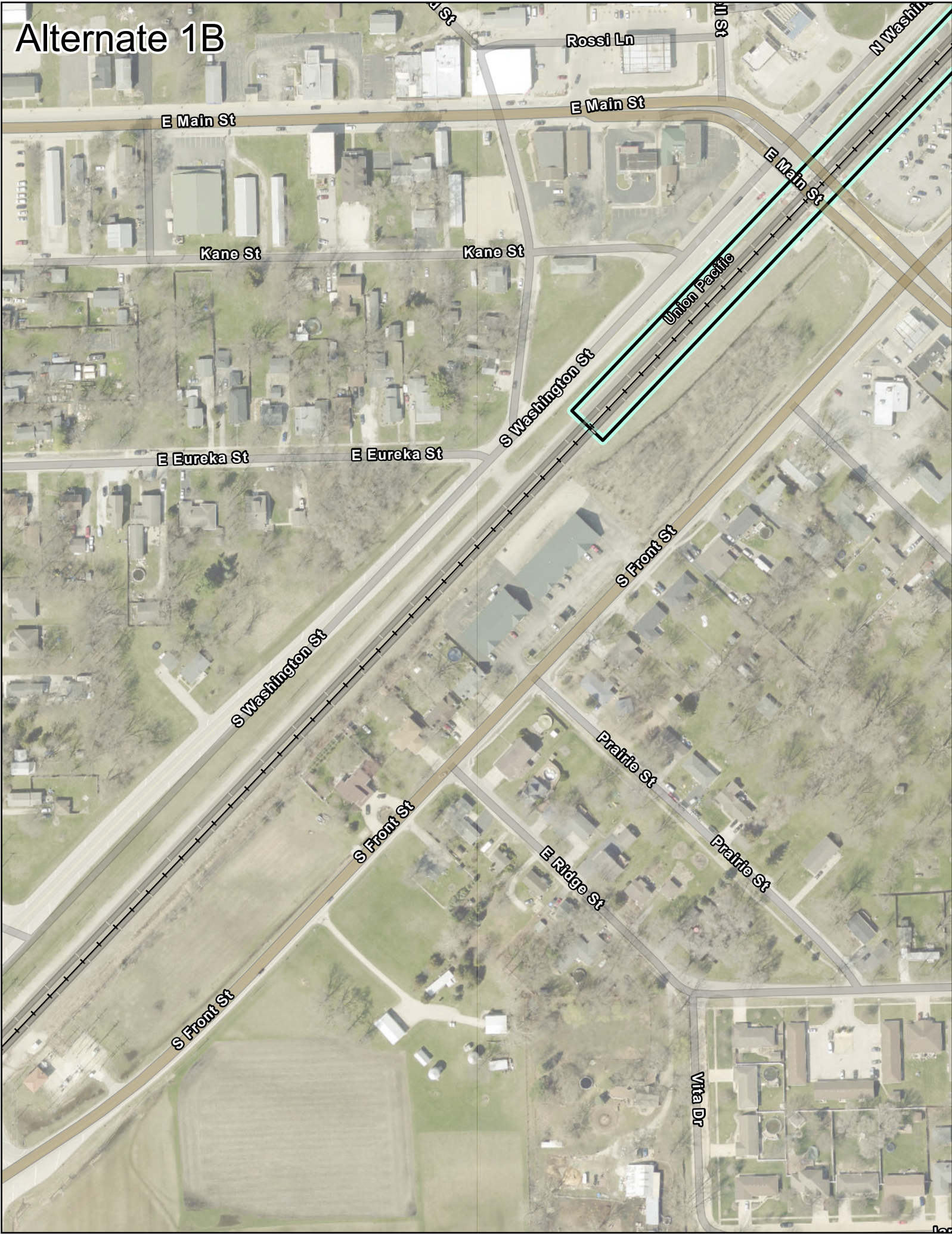
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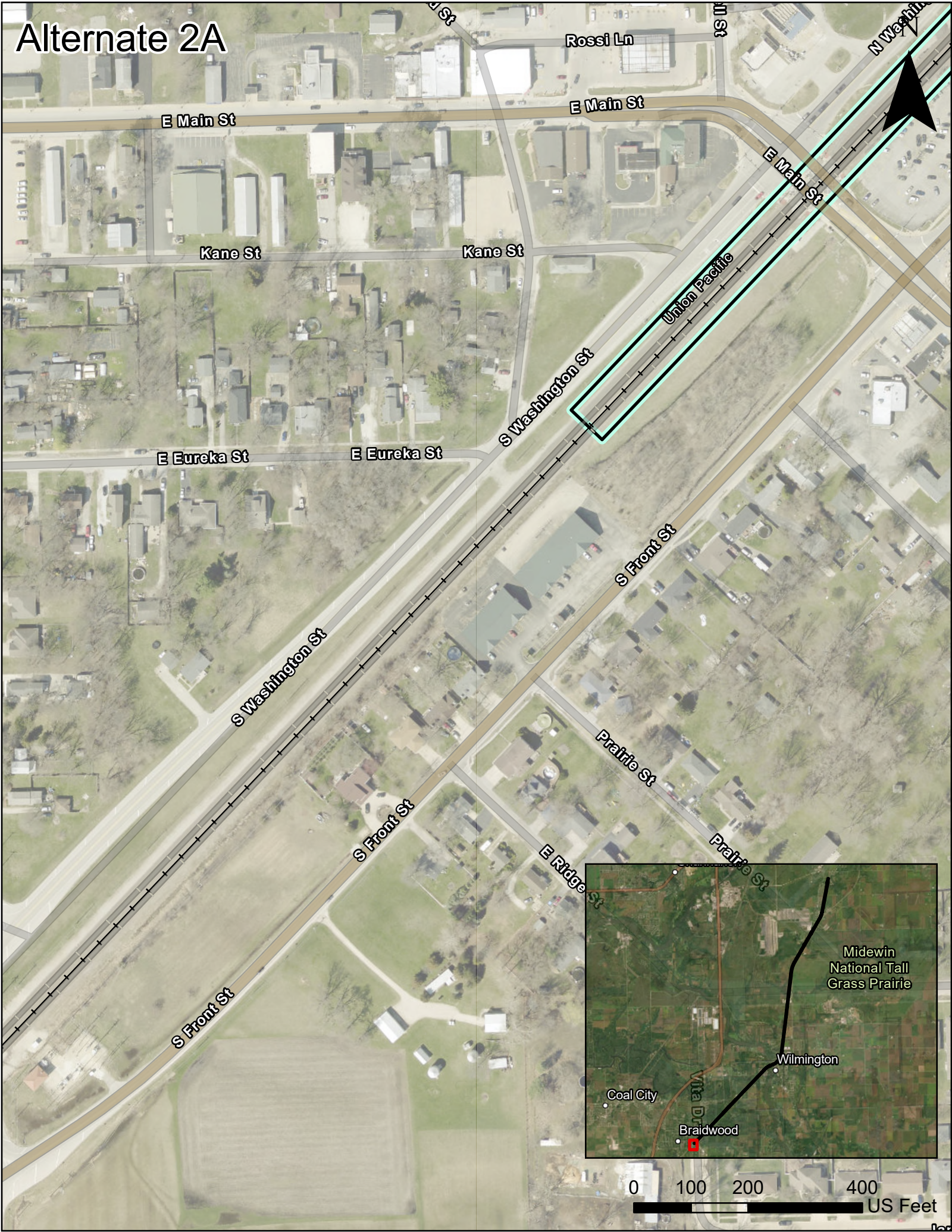
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Alternate 1B



Alternate 2A

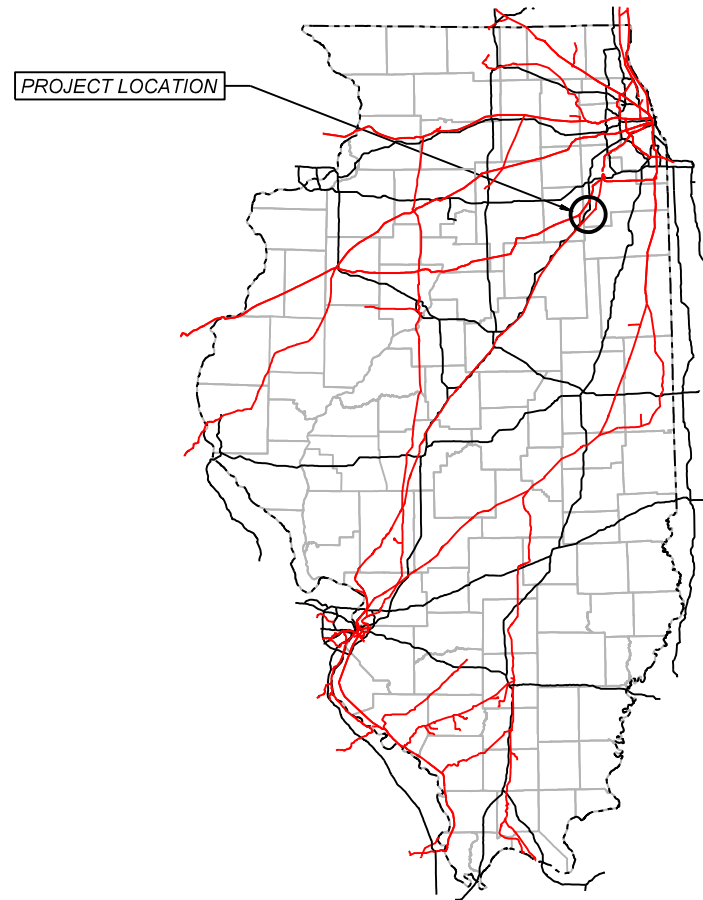


Appendix A: Maps and Designs

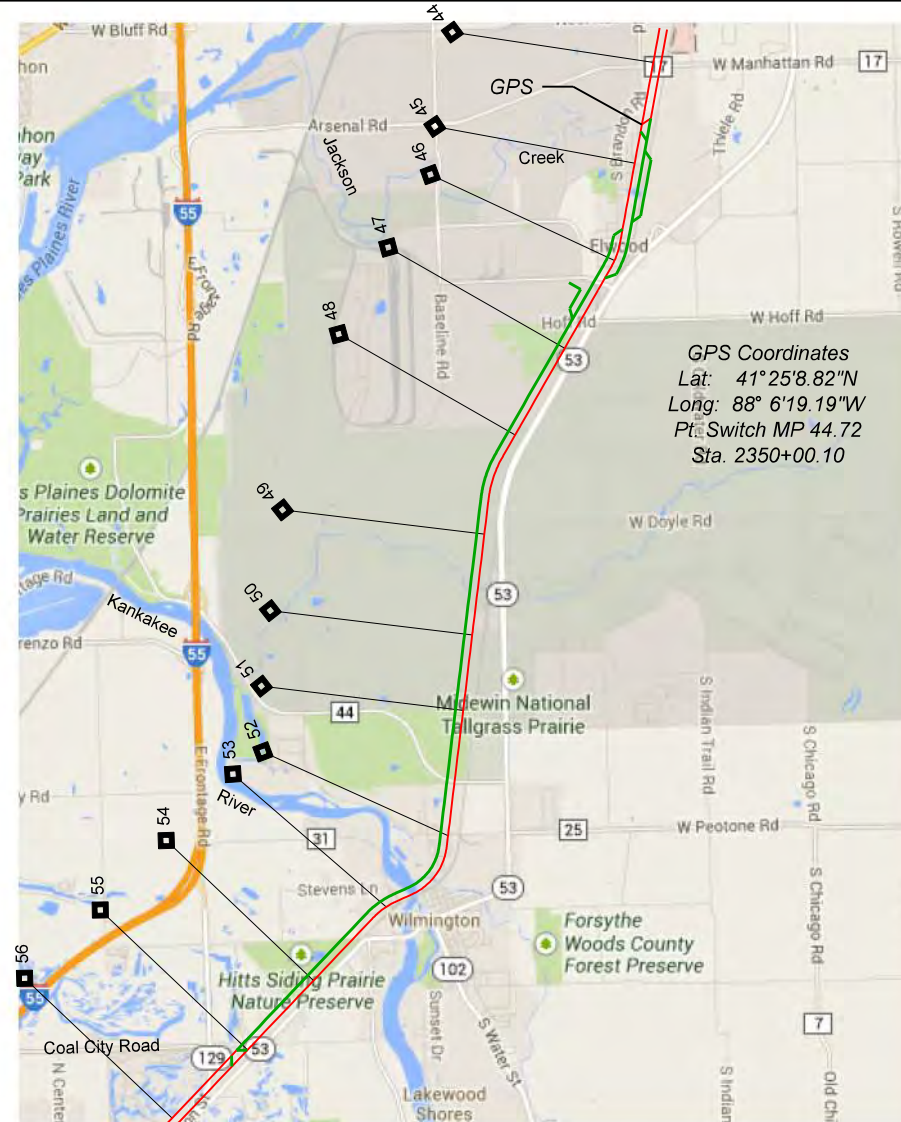
Build Alternative 1B Design



ENGINEERING DESIGN



State of Illinois



Project Location Map

SUPPORT REGISTERED
PROFESSIONAL ENGINEERS

TRACK & CIVIL
PAGES: P001 - P040, T001 - T005, CD01 - CD03,
C001 - C006, X001 - X208

ROADWAY
PAGES: PSR001-PSRXXX, R001-RXXX

SUPPORT LICENSED
STRUCTURAL ENGINEERS

HDR STRUCTURES
PAGES: TBD

HNTB STRUCTURES
PAGES: TBD

CONTRACT RESPONSIBILITY
REGISTERED PROFESSIONAL ENGINEER

GENERAL
PAGES: G001 - G006

ELWOOD, IL TO BRAIDWOOD, IL
WILL COUNTY
JOLIET SUBDIVISION
MP 44.60 TO MP 55.50
TIER 8 - 2ND MAIN TRACK
30% PRELIMINARY
NOT FOR CONSTRUCTION

LAST REVISED
SEP. 19, 2024

PROJECT INDEX

PROJECT DESIGN

DESCRIPTION

G001	COVER SHEET WITH VICINITY MAP
G002	PROJECT INDEX & REVISIONS
G003	GENERAL NOTES & PROJECT CONTACTS
G004	ABBREVIATIONS & LEGEND
G005	UTILITY ABBREVIATIONS & LEGEND
G006	CONTROL POINTS & GEOMETRY
G007	PLAN OVERVIEW MAP
P001 to P040	TRACK PLAN & PROFILE
T001 to T005	TRACK TYPICAL SECTIONS
CD01	UP & DOWNSTREAM CULVERT GRADING DETAILS (NOT INCLUDED WITH THIS SUBMITTAL)
CD02	SIGNAL MOUND CONSTRUCTION (NOT INCLUDED WITH THIS SUBMITTAL)
CD03	ACCESS ROAD TURNAROUND PLAN (NOT INCLUDED WITH THIS SUBMITTAL)
C001	CULVERT CROSS SECTIONS - MP 45.30
C002	CULVERT CROSS SECTIONS - MP 45.70 AND MP 46.09
C003	CULVERT CROSS SECTIONS - MP 46.95 AND MP 49.20
C004	CULVERT CROSS SECTIONS - MP 53.51 AND MP 54.20
C005	CULVERT PLAN AND PROFILE - MP 45.00 (NOT INCLUDED WITH THIS SUBMITTAL)
C006	STORM SEWER PLAN AND PROFILE - MP 45.75 (NOT INCLUDED WITH THIS SUBMITTAL)
C007	STORM SEWER PLAN AND PROFILE - MP 45.88 (NOT INCLUDED WITH THIS SUBMITTAL)
C008	CULVERT PLAN AND PROFILE - MP 47.95 (NOT INCLUDED WITH THIS SUBMITTAL)
X001 to X208	TRACK CROSS SECTIONS AND END AREA REPORT

PROJECT INDEX (CONTINUED)

ROADWAY DESIGN

DESCRIPTION

PSR001	to	PSR00X	ROADWAY DETAILS
R001	to	RXXX	ROADWAY PLANS (TBD)

STRUCTURES DESIGN

DESCRIPTION

CE XXXXXX	MP 46.74 2 - 84" DIA. SSP REPLACING EXISTING 1- 6.65' x 6.65' x 31' CAC
CE XXXXXX	MP 47.30 1 - 96" DIA. CSP AND 2- 72" DIA. SSP REPLACING EXISTING 1- 10.4' x 9' x 51' SAC
CE XXXXXX	MP 48.15 RETAINING WALL
CE XXXXXX	MP 48.80 1 - 72" DIA. SSP REPLACING EXISTING 1-60" DIA. CIP
CE XXXXXX	MP 48.90 1 - 78" DIA. CSP EXTENDING 1-78" DIA. CMP CULVERT
CE XXXXXX	MP 49.52 3 SPAN (2 TRACK AND 1 ACCESS ROAD BRIDGE)
CE XXXXXX	MP 51.57 1- 60" DIA. CSP EXTENDING 1-60" DIA. CSP & 1- 60" SSP EXTENDING 1- 60" DIA. SSP

PROJECT REVISIONS

[illegible]

PRELIMINARY

NOT FOR CONSTRUCTION 08/28/2024



DRAWN BY: BND	
CHECKED BY: ADK	
DATE: 09/19/2024	LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track
SHEET NUMBER G002 of G007	SHEET TITLE: Project Index & Revisions

Color: table: c:\pwworking\National\01\d0263678\UPRR.tb1
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pwz://HDR_US_National\01//EL_G001.dgn
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9/19/2024 4:00:00 PM

GENERAL NOTES

1. Contractors shall notify Service Alert, (800) 642-2444 and UPRR Fiber Optics Hotline (800) 336-9193, 48 hours prior to any excavation. The USA Authorization Numbers shall be kept at the job site.
2. No work whatsoever shall be commenced without first notifying the UPRR Engineer.
3. The Contractor shall comply with all Federal, State, County, and City Laws and Ordinances and Regulations of the Department of Industrial Relations, OSHA, NPDES and Industrial Accident Commission related to the safety and character of the work, equipment and labor personnel.
4. Contractor shall be responsible for coordinating with all Utility agencies.
5. Contractor shall protect in place (by any means necessary) all existing utilities to remain unless otherwise specified herein, Contractor shall be responsible for the complete repair at its expense, for any damage to existing utilities, structures, or other site features, as a result of its work.
6. Prior to placing curbs, pavements, base, subbase, track, etc., all underground utilities shall be installed, backfill completed, and the UPRR Engineer notified by each of the utility companies having facilities within the work area, that the utility installation has satisfactorily passed acceptance tests.
7. All existing underground utilities, that are not to be re-used shall be abandoned in place. All existing pipelines to be abandoned in place shall be cement slurry filled and capped at least 3'-0" below top of proposed subgrade.
8. Contractor shall verify locations and elevations of existing utilities whether known or unknown prior to beginning construction.
9. Any underground structures such as cesspools, cisterns, mining shafts, tunnels, septic tanks, wells, and pipelines not located prior to construction shall be brought to the attention of the UPRR Engineer for determination of appropriate action such as removal or treatment in a manner judged suitable to the Engineer.
10. Contractor shall coordinate location of all proposed utilities with UPRR to assure accuracy of utility connections and compliance with local codes.
11. Any existing conditions found to be a variance with these drawings must be immediately reported to the UPRR Engineer.
12. Contractor shall maintain and clean, to the satisfaction of the UPRR Engineer, all access and service roads used during construction.
13. Contractor shall perform all construction in such a manner as to protect adjacent existing buildings, and other site elements which are to remain in service.
14. Contractor shall provide As-built Drawings for all improvements.

DESIGN CRITERIA

1. UPRR Standard Plans and Trackworks
2. Illinois Department of Transportation Bureau of Local Roads & Streets Manual
3. Illinois Department of Transportation Highway Standards
4. Illinois Department of Transportation MUTCD
5. Illinois Department of Transportation Standard Specifications for Roadway and Bridge Construction

SURVEY NOTES

1. Railroad stationing for project profiles and alignments is based on stations established for chord definition spiraled curves at the centerline of the existing UPRR Main Line unless otherwise noted.
2. The Contractor is responsible for the preservation of all survey control monuments. In the event monuments are damaged or destroyed by the Contractor, the Engineer will replace the monument solely at the Contractor's expense.

	DATUM
HORIZONTAL	NAD83(NSRS2007) ILLINOIS EAST ZONE 1201 Survey Feet, Grid
VERTICAL	NAVD88

15. No field changes will be permitted without direct written authorization from the UPRR Engineer.
16. Contractor shall coordinate work which affects adjacent property owners. Any questions or agreements between adjacent property owners and Contractor shall be made in writing. A copy of such agreement shall be provided to the UPRR Engineer.
17. Right-of-way lines shown on the plans were taken from existing UPRR valuation map and are approximate.
18. Match lines for sheets are based on the existing Main Line stationing unless otherwise specified.
19. Track laying, ballasting, and installation of road crossing panels will be done by UPRR unless otherwise stated.
20. Where existing culverts are to be extended, the Contractor shall expose existing drainage structures and field verify size and type before ordering materials.
21. The Contractor is responsible for the removal of all pavement markings that will be in conflict with the proposed work.
22. Contractor shall comply with all Illinois and Will County standard specifications for construction of public improvements requirements.
23. Contractor shall maintain at least one access to all affected businesses. If necessary, multiphase construction shall be utilized.
24. All station and offset labels are based off existing mainline track alignment unless otherwise noted.
25. All wooden sign posts must be drilled to meet IDOT requirements to break-away at ground line.

DATA SOURCES

1. Aerial: Alpha Land Surveying, Dec. 2022.
2. Topographic Survey: American Surveyors, Oct. 2022.
3. Utilities: SUE TBD

TRAFFIC NOTES

1. All barricades, warning signs, lights, devices, etc. for the guidance of vehicle traffic and pedestrians must conform to the installation shown in the Manual on Uniform Traffic Control Devices (MUTCD), current edition and IDOT Standard Plans. See IDOT Quality Standard for Work Zone Traffic Control Devices.
2. Contractor shall make twice daily inspections of barricades and flashing lights to ensure proper placement and functioning of warning devices.
3. Grade crossings closed to traffic during construction shall be barricaded in accordance with the MUTCD and IDOT Standard Plans.
4. At all grade crossings, all grade crossing warning signs (crossbuck) shall temporarily be relocated during construction and reset after the grade crossings construction is completed to a point adjacent to the roadway and 15 feet from the centerline of the near track as stated in the MUTCD except where automatic grade crossing warning signals/gates exist. All automatic warning devices are the responsibility of UPRR. At no time shall a crossing be left open without proper warning signs in place.
5. Contractor shall submit traffic control plans to the IDOT, County and Municipal Traffic Departments for approval at least 2 weeks prior to each road closure. Plans shall be 11" x 17" engineered drawings, sealed by a Illinois professional engineer. Contractor shall utilize the IDOT Traffic Control Authorization Request. The IDOT District Offices will process all Traffic Control Permits.
6. The Contractor is responsible for the prompt replacement and/or repair of all traffic control devices and appurtenances damaged or disturbed due to construction.

PROJECT CONTACTS

CONTACT

TBD
John Jerome
Ken Freimuth
Adam Studts
Paul Pino
Stan Dullnskl
TBD
Benjamin Dey

PHONE NUMBER

TBD
(402) 591-2727
(402) 544-5167
(402) 544-3541
(402) 544-3582
(402) 544-0353
TBD
(402) 399-1338

UPRR

Construction Field Manager
HSR Program Manager Field Manager
Project Design Sr. Project Designer
Structures Design Sr. Manager
Information Technology - Fiber
Real Estate - Utilities
Real Estate - Acquisitions
HDR Project Manager

CONTACT

PHONE NUMBER

FIBER

CONTACT

PHONE NUMBER

UTILITIES

CONTACT

PHONE NUMBER

FEDERAL AND LOCAL GOVERNMENT AGENCY

PHONE NUMBER

(800) 336-9193
(888) 258-0808
(888) 877-7267

GENERAL

UPRR CALL BEFORE YOU DIG
CALL BEFORE YOU DIG (NATIONAL DIRECTORY)
UPRR Response Management Communications Center (RMCC)

PRELIMINARY
NOT FOR CONSTRUCTION 08/28/2024



HDR ENGINEERING INC.
1917 S. 67TH ST.
OMAHA, NE 68106



HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15th ST, SUITE 247-N
OMAHA, NE 68102



DRAWN BY:
BND

CHECKED BY:
ADK

DATE:
09/19/2024

SHEET NUMBER
G003 of G007

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE:
General Notes & Project Contacts

ABBREVIATIONS

MISCELLANEOUS

Ac.	Acres
Ave.	Avenue
Blvd.	Boulevard
Bldg.	Building
BNSF	BNSF Railway
C.Y.	Cubic Yards
Conc.	Concrete
°	Degree (s)
Dia.	Diameter
Dr.	Drive
Dwg.	Drawing
E	East
Elev.	Elevation
Exist.	Existing
'	Foot, Feet or Minute (s)
F.S.	Finished Surface
Horiz.	Horizontal
"	Inch, Inches or Second (s)
Inv.	Invert
Lt.	Left
L	Length
L.F.	Lineal Feet
Max.	Maximum
Min.	Minimum
N	North
NTS	Not to Scale
No.	Number
OH	Overhead
Prop.	Proposed
RR	Railroad
Rwy	Railway
R/W	Right of Way
Rt.	Right
S	South
S.F.	Square Feet
Sta.	Station
Std.	Standard
St.	Street
Twp.	Township
Typ.	Typical
UG	Underground
UPRR	Union Pacific Railroad
V	Velocity
Wt.	Weight
W	West
X-ing	Crossing

SIGNAL

ABS	Automatic Block Signal
ATC	Automatic Train Control
CTC	Centralized Traffic Control
DED	Dragging Equipment Detector
DTC	Direct Traffic Control
ELTO	Electric Lock Turnout
HBD	Hot Box Detector
HTTO	Hand Throw Turnout
HWD	High Wide Detector
POTO	Power Operated Turnout
TWC	Track Warrant Control
WILD	Wheel Impact Load Dectector

STRUCTURES

Bldg.	Building
Br.	Bridge
CB	Catch Basin
CPT	Concrete Pile Trestle - Ballast Deck
CIP	Cast Iron Pipe
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
CSP	Corrugated Steel Pipe
Culv.	Culvert
DI	Drop Inlet
DPGBD	Deck Plate Girder - Ballast Deck
DPGOD	Deck Plate Girder - Open Deck
EBW	East Backwall
F.L.	Flowline
F.F.	Finished Floor
GIP	Galvanized Iron Pipe
Hdwl	Headwall
NBW	North Backwall
PSCT	Prestressed Concrete Trestle
RCA	Reinforced Concrete Arch
RCB	Reinforced Concrete Box
RCP	Reinforced Concrete Pipe
SBW	South Backwall
SSP	Smooth Steel Pipe
SPTBD	Steel Pile Trestle - Ballast Deck
SPTOD	Steel Pile Trestle - Open Deck
SPP	Structural Plate Pipe
TPGBD	Through Plate Girder - Ballast Deck
TPGOD	Through Plate Girder - Open Deck
TPTBD	Timber Pile Trestle - Ballast Deck
TPTOD	Timber Pile Trestle - Open Deck
TTBD	Through Truss - Ballast Deck
TTOD	Through Truss - Open Deck
TWB	Treated Wood Box
VCP	Vitrified Clay Pipe
Viad.	Viaduct
WBW	West Backwall
WIP	Wrought Iron Pipe

TRACK

ATR	Above Top of Rail
Align.	Alignment
BBR	Below Base of Rail
Cntrs.	Centers
CWR	Continuous Welded Rail
DSPD	Double Switch Point Derail
EOT	End of Track
HH	Head Hardened
Jtd.	Jointed Rail
LH	Left Hand
ML	Main Line
MM	Mile Marker
MP	Mile Post
NSC	Not Sufficient Clearance
OTM	Other Track Material
PCC	Point of Compound Curve
PC	Point of Curve
PCS	Point of Curve to Spiral
POC	Point on Curve
PF	1/2" Point of Frog
PI	Point of Intersection
PITO	Point of Intersection of Turnout
PS	Point of Spiral
PSC	Point of Spiral to Curve
POS	Point on Spiral
PT	Point of Tangent
POT	Point on Tangent
Pt. Sw.	Point of Switch
PVC	Point of Vertical Curve
PVI	Point of Vertical Intersection
PVT	Point of Vertical Tangent
RH	Right Hand
SH	Second Hand
SSPD	Single Switch Point Derail
TC	Track Centers
T.F.	Track Feet
Trk.	Track
T/R	Top of Rail
UXO	Universal Cross-Over
X-Over	Cross-Over

UTILITIES

AIR	Compressed Air
F/O	Fiber Optic Cable
G	Gas Pipeline
OP	Overhead Power Line
SS	Sanitary Sewer
UGS	Underground Signal Line
SS	Steam Line
S	Storm Sewer
T	Telephone
UGE	Underground Electric
W	Water Main
UD	Under Drain
V.	Valve
M.H.	Manhole
C.B.	Catch Basin
F.H.	Fire Hydrant
	Junction Box
	Electric Meter
	Gas Meter
	Water Meter
M.W.	Monitoring Well
PUMP	Pump

TRACK

	Existing Mainline
	Existing Siding or Spur
	Proposed
	Remove
	Shift
	Relay
	Surface & Line
	Future
	Foreign Railroad or Industry
	In Buildings or Under Structures
	Turnout
	Power Turnout
	Bumping Post
	Earthen Bumper
	Inert Retarder
	Dowty Retarder
	Hayes Derail
	Double Switch Point Derail

LIGHTING

	Light Pole
	Light Tower

ROAD CROSSING WARNING DEVICES

	Crossbuck Sign
	Flashing Light Warning Device
	Flashing Light Warning Device with Gate
	Cantilever Flashing Light Warning Device
	Cantilever Flashing Light Signal with Gate

SIGNAL

	Absolute Signal
	Signal Bridge
	Cantilever Signal
	ACS or CTC Signal
	Dwarf Signal
	Begin CTC
	Microwave Tower
AEI	AEI
BB	Battery Box
	Dragging Equipment Detector
GEN.	Generator
	Hot Box Detector

STRUCTURES

	Culvert
	Culvert with Headwalls
	Double Culvert
	Railroad Bridge
	Highway Overpass
	Highway Underpass
	Tunnel
	Building
FP	Flag Pole

PROPERTY

	Section Line
	Center Section Line
	Parcel or Easement Line
	Right of Way
	Former Right of Way
	Right of Way to be Acquired
	Foreign Right of Way

SIGNS

	Stop
	Yard Limit
	1 Mile to Yard Limit
	Whistle Post
	Flanger
	Station
	Reduce Speed
	Resume Speed
	General Purpose

FENCES

	Barbed Wire
	Chain Link
	Snow / Sand
	Cattle Guard

ROADS

	Paved Road
	Unimproved Road
	Interstate Highway
	Federal Highway
	State Highway
	County Highway

PERMITTING

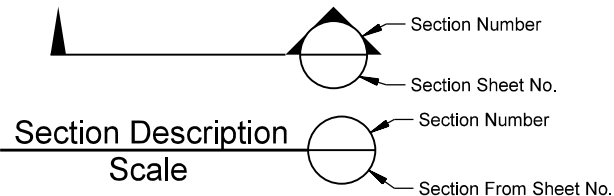
	Temporary Workspace - Permitted
	Sensitive Resources - Impacted / Permitted
	Sensitive Resources - Do Not Impact

CONSTRUCTION

Note	Note (Work by Contractor)
Note	Note (Work by Others)
	Cut Lines
	Fill Lines
	Grading Limits

OTHER

	Embankment	15	Control Point
	Flow Line	1	Revision Number
	Milepost		Revision Cloud
MM	Milemarker		Soil Boring



PRELIMINARY
NOT FOR CONSTRUCTION 08/28/2024

HDR ENGINEERING INC.
1917 S. 67TH ST.
OMAHA, NE 68106

HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102

UNION PACIFIC

DRAWN BY: BND
CHECKED BY: ADK
DATE: 09/19/2024
SHEET NUMBER: G004 of G007

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track

SHEET TITLE: Abbreviations & Legend

Communications

AT&T	_____ F/O _____
UPRR	--- (FOC2) ---
LUMEN	--- (FOC4) ---
SPRINT	--- (FOC6) ---
SPRINT	--- (FOC8) ---

NICOR _____ G _____

WOLVERINE _____ G _____

EXXON MOBIL _____ G _____

KINDER MORGAN _____ G _____

Sewers / Drains	QL "B"
UPRR	- WW1 -
CITY OF ELWOOD	- WW2 -
CITY OF WILMINGTON	- WW3 -
UPRR	- S -
CITY OF ELWOOD	- S -
CITY OF WILMINGTON	- SD3 -
DOT	- SD4 -
	QL "D"
CITY OF ELWOOD	- SS -
CITY OF WILMINGTON	- SS -
UPRR	- S -
CITY OF ELWOOD	- S -

Water	QL "B"
UPRR	— · — W1 — — ·
CITY OF ELWOOD	— · — W2 — — ·
CITY OF WILMINGTON	— · — W3 — — ·
PRIVATE	— · — W4 — — ·
	QL "D"
CITY OF ELWOOD	— W — — —
CITY OF WILMINGTON	— W — — —
PRIVATE	— W — — —

Electric / Power	QL "B"				
UPRR	—	—	E1	—	—
COMED	—	—	E2	—	—
CITY OF ELWOOD	—	—	E3	—	—
IDOT	—	—	E4	—	—
CITY OF WILMINGTON	—	—	E5	—	—

UNKNOWN QL "B"
UNKNOWN — — UNK1 — —

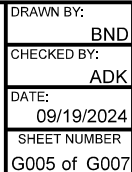
AT&T	-- -- 0T1 -- --
AT&T	-- -- 0FOC1 -- --
COMCAST	-- -- 0FOC3 -- --
ADESTA	-- -- 0FOC7 -- --
COMED	-- -- 0FOC8 -- --
COMCAST	-- -- 0C3 -- --
	Electrical
COMED	-- -- 0E2 -- --

LIGHT POLE		
ELECTRIC TRACK SWITCH BOX		
ELECTRIC POLE (POWER)		
ELECTRIC POLE W/ RISER		
TRANSMISSION POLE		
ELECTRIC HANDHOLE/PULL BOX		
ELECTRIC MANHOLE		
SIGNAL POLE		
SIGNAL HANDHOLE/BOX		
TRAFFIC LIGHT		
ELECTRIC METER		
ELECTRIC PEDESTAL		
GUY WIRE/GUY ANCHOR		
RAILROAD CROSSING SIGNAL ARM		
RAILROAD SIGNAL SWITCH		
SIGNAL CONTROL PANEL		
ELECTRIC SERVICE POLE (POWER)		
ANTENNA POLE		

"ELECTRONIC DEPTH" (E.D) VALUES SHOWN
ARE APPROXIMATE ONLY, AND NOT INTENDED
FOR DESIGN OR CONSTRUCTION USE.

HDR
HDR ENGINEERING INC.
1917 S. 67TH ST.
OMAHA, NE 68106

HNTB
HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15th ST, SUITE 247-A
OMAHA, NE 68102



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CONTROL POINTS

Point	Northing	Easting	Elevation	Description
1	1705495.605	1037470.336	566.653	5/8 RB
2	1721156.413	1041368.995	644.886	5/8 RB
3	1692385.246	1035856.322	547.293	5/8 RB
75	1733968.338	1047315.974	624.854	IRON ROD
76	1733176.995	1047174.012	620.492	IRON ROD
77	1732666.217	1047077.940	618.952	IRON ROD
78	1732393.120	1047031.009	617.581	CUT X
79	1731658.086	1046890.205	620.578	IRON ROD
80	1730871.441	1046747.767	624.212	IRON ROD
81	1729960.394	1046574.626	631.048	IRON ROD
82	1729186.670	1046438.746	637.671	IRON ROD
83	1728413.152	1046293.137	641.356	IRON ROD
84	1727650.000	1046151.566	640.654	IRON ROD
85	1726886.533	1046012.561	644.192	IRON ROD
86	1726007.107	1045847.944	640.817	IRON ROD
87	1725511.953	1045854.149	645.627	770
88	1725490.296	1045635.546	643.828	770
89	1725482.791	1045641.635	643.371	IRON ROD
90	1725227.851	1045667.635	642.731	IRON ROD
91	1724471.200	1045314.726	643.134	IRON ROD
92	1723776.452	1044914.619	644.516	IRON ROD
93	1723456.618	1044814.285	640.947	IRON ROD
94	1723369.829	1044517.722	642.056	770
95	1723270.714	1044770.598	643.010	770
96	1723083.769	1044519.679	638.159	IRON ROD
97	1722379.756	1044120.154	634.371	IRON ROD
98	1721528.644	1043608.630	630.466	IRON ROD
99	1721482.962	1043713.677	633.175	MAG
100	1720820.753	1043226.459	627.454	IRON ROD
101	1720123.838	1042832.255	625.118	IRON ROD
102	1719417.861	1042465.807	624.155	IRON ROD
103	1718753.827	1042085.429	618.680	IRON ROD
104	1718085.388	1041666.490	620.345	IRON ROD
105	1717386.603	1041305.683	624.240	IRON ROD
106	1716706.860	1040882.185	622.255	IRON ROD
107	1716026.518	1040477.477	620.189	IRON ROD
108	1715326.868	1040092.757	615.053	IRON ROD
109	1714671.246	1039714.970	613.269	IRON ROD
110	1713968.077	1039365.619	609.824	IRON ROD
111	1713207.951	1039107.496	605.275	IRON ROD
112	1712452.942	1038933.867	607.243	IRON ROD-OTHERS
113	1712277.253	1038983.587	602.270	IRON ROD
114	1711490.218	1038878.342	595.800	IRON ROD
115	1710694.011	1038780.691	591.037	IRON ROD
116	1709899.022	1038685.983	588.268	IRON ROD
117	1709113.539	1038595.871	582.333	IRON ROD
118	1708324.935	1038469.201	580.419	IRON ROD
119	1707536.233	1038378.365	578.650	770
120	1706744.155	1038307.941	571.472	IRON ROD
121	1706512.164	1038262.343	574.887	PK
122	1705989.788	1038164.124	568.539	IRON ROD
123	1705512.292	1038094.106	567.663	IRON ROD
124	1704713.028	1038063.319	564.517	IRON ROD
125	1703931.488	1037932.043	562.837	IRON ROD
126	1703133.571	1037873.969	560.516	IRON ROD
127	1702330.422	1037773.721	560.921	IRON ROD
128	1701528.827	1037678.204	560.943	IRON ROD
129	1701050.677	1037605.140	563.629	MAG
130	1700742.000	1037552.056	561.115	IRON ROD
131	1700057.301	1037485.512	563.194	MAG
132	1699941.773	1037459.348	561.277	IRON ROD
133	1699161.507	1037364.498	559.541	IRON ROD
134	1698361.064	1037268.042	558.339	IRON ROD
135	1697559.536	1037151.905	561.511	MAG
136	1697557.673	1037239.805	561.499	MAG
137	1696775.579	1037077.137	556.900	IRON ROD

CONTROL POINTS

Point	Northing	Easting	Elevation	Description
138	1695982.189	1036984.010	557.817	IRON ROD
139	1695188.191	1036887.340	558.691	IRON ROD
140	1694863.108	1036903.577	560.096	MAG
141	1694861.161	1036804.673	559.533	MAG
142	1694078.327	1036769.555	555.774	IRON ROD
143	1693376.645	1036544.412	553.148	IRON ROD
144	1692693.464	1036128.418	549.781	IRON ROD
145	1692559.185	1035947.030	546.506	MAG
146	1692220.013	1035455.504	543.309	IRON ROD
147	1692139.882	1035545.047	547.130	IRON ROD
148	1691942.314	1035260.264	547.059	IRON ROD
149	1691719.443	1034757.754	549.830	IRON ROD
150	1691496.919	1034194.937	549.557	IRON ROD
151	1691087.363	1033389.653	552.017	MAG
152	1690969.566	1033402.280	554.115	CUT X
153	1690457.268	1032823.819	556.944	IRON ROD
154	1690457.257	1032823.795	556.979	IRON ROD
155	1689824.489	1032189.390	563.550	IRON ROD
156	1689448.390	1031949.594	567.507	MAG
157	1689447.037	1031747.944	566.996	IRON ROD
158	1688810.300	1031261.636	565.949	IRON ROD
159	1688106.958	1030587.137	567.783	IRON ROD
160	1687662.384	1030170.016	566.629	IRON ROD
161	1687133.189	1029664.222	564.915	IRON ROD
162	1686577.363	1029094.031	563.462	IRON ROD
163	1685999.818	1028542.557	563.251	IRON ROD
164	1685397.682	1028019.567	564.498	IRON ROD
165	1684801.874	1027456.332	565.926	IRON ROD
166	1684242.331	1026930.107	562.389	IRON ROD
167	1683963.227	1026545.892	562.372	IRON ROD
168	1683471.303	1026187.478	559.354	IRON ROD
169	1683046.840	1025783.940	559.567	IRON ROD
170	1682603.733	1025366.547	562.629	IRON ROD
171	1682160.551	1024940.567	565.545	IRON ROD
172	1681766.679	1024568.838	563.189	IRON ROD
173	1681394.575	1024210.092	561.919	IRON ROD
174	1680967.047	1023805.383	558.545	IRON ROD
175	1680562.415	1023388.008	558.013	IRON ROD

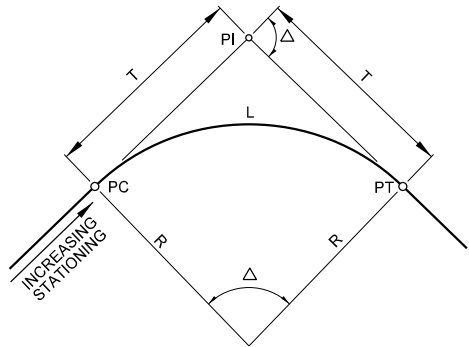


FIGURE B
SIMPLE CIRCULAR CURVE

R = RADIUS OF CIRCULAR CURVE

Δ = CENTRAL ANGLE OF CIRCULAR CURVE

$$T = R \tan \frac{\Delta}{2}$$

$$L = \frac{\Delta}{D_c} \times 100$$

$$D_c = 2 \sin^{-1} (50/R) = \text{DEGREE OF CURVE (CHORD DEFINITION)}$$

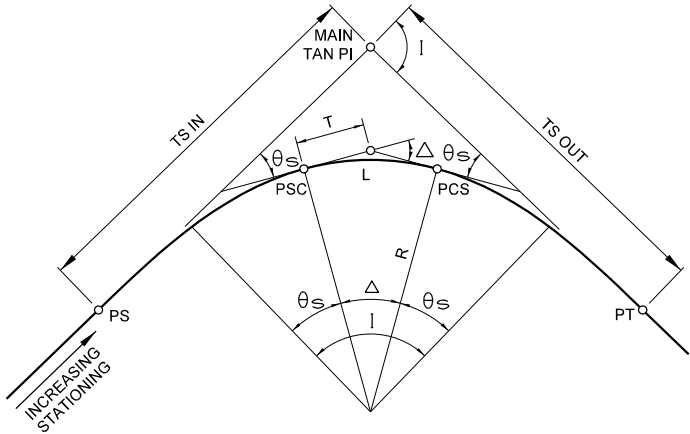


FIGURE A
CIRCULAR CURVES
WITH SPIRAL TRANSITION

| - TOTAL INTERSECTION ANGLE

$$\theta_s - \text{SPIRAL ANGLE} = \frac{A L^2}{2}$$

$$\Delta - \text{CENTRAL ANGLE OF CIRCULAR CURVE} = | - 2 \theta_s$$

Dc - DEGREE OF CURVE

$$A - \text{RATE OF CHANGE OF DEGREE OF CURVE PER 100-FT. OF LENGTH} = \frac{D_c}{L}$$

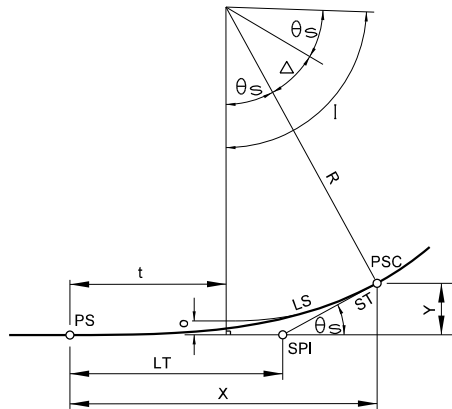


FIGURE C
SPIRAL TRANSITION CURVE

SPIRAL TRANSITION CURVE DATA:
THE SPIRAL USED IS DEFINED BY THE TALBOT SPIRAL.

LS = LENGTH OF SPIRAL (TS TO PSC)

$$\theta_s = \frac{A L^2}{2}$$

$$X = 100 L_1 - 0.000762 A^2 L_1^5$$

$$Y = 0.291 A L_1^3 - 0.00000158 A^3 L_1^7$$

$$o = 0.0727 A L_1^3$$

$$t = 50 L_1 - 0.000127 A^2 L_1^5$$

$$ST = \frac{Y}{\sin \theta_s}$$

$$LT = X - \frac{Y}{\tan \theta_s}$$

$$D_c = 2 \sin^{-1} (50/R) = \text{DEGREE OF CURVE (CHORD DEFINITION)}$$

L1 - TOTAL NO. OF STATIONS IN SPIRAL

SPI - SPIRAL POINT OF INTERSECTION

NOTE: Dc, θs, Δ, AND | ARE IN DEGREES.
ALL OTHERS DIMENSIONS ARE FEET.

R - RADIUS OF CIRCULAR CURVE

T - TANGENT LENGTH OF CIRCULAR CURVE = $R \tan \frac{\Delta}{2}$

L - LENGTH OF CIRCULAR CURVE = $\frac{\Delta}{D_c} \times 100$

PS - TANGENT TO SPIRAL

PSC - SPIRAL TO CURVE

PCS - CURVE TO SPIRAL

PT - SPIRAL TO TANGENT

MAIN TAN PI - POINT OF INTERSECTION OF MAIN TANGENTS

(TS IN) - TANGENT LENGTH OF COMPLETE CURVE = $(R+o) \tan \frac{|}{2} + t$

(WHEN SPIRALS OF EQUAL LENGTH
ARE USED ON BOTH SIDES OF
CIRCULAR CURVE, SEE FIGURE C.
FOR o AND t).

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 HDR ENGINEERING INC. 1917 S. 61TH ST. OMAHA, NE 68106		DRAWN BY: BND CHECKED BY: ADK DATE: 09/19/2024 SHEET NUMBER G006 of G007	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track SHEET TITLE: Control Points & Geometry
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HNTB

HDR ENGINEERING INC.
1917 S. 67TH ST.
OMAHA, NE 68106

HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102

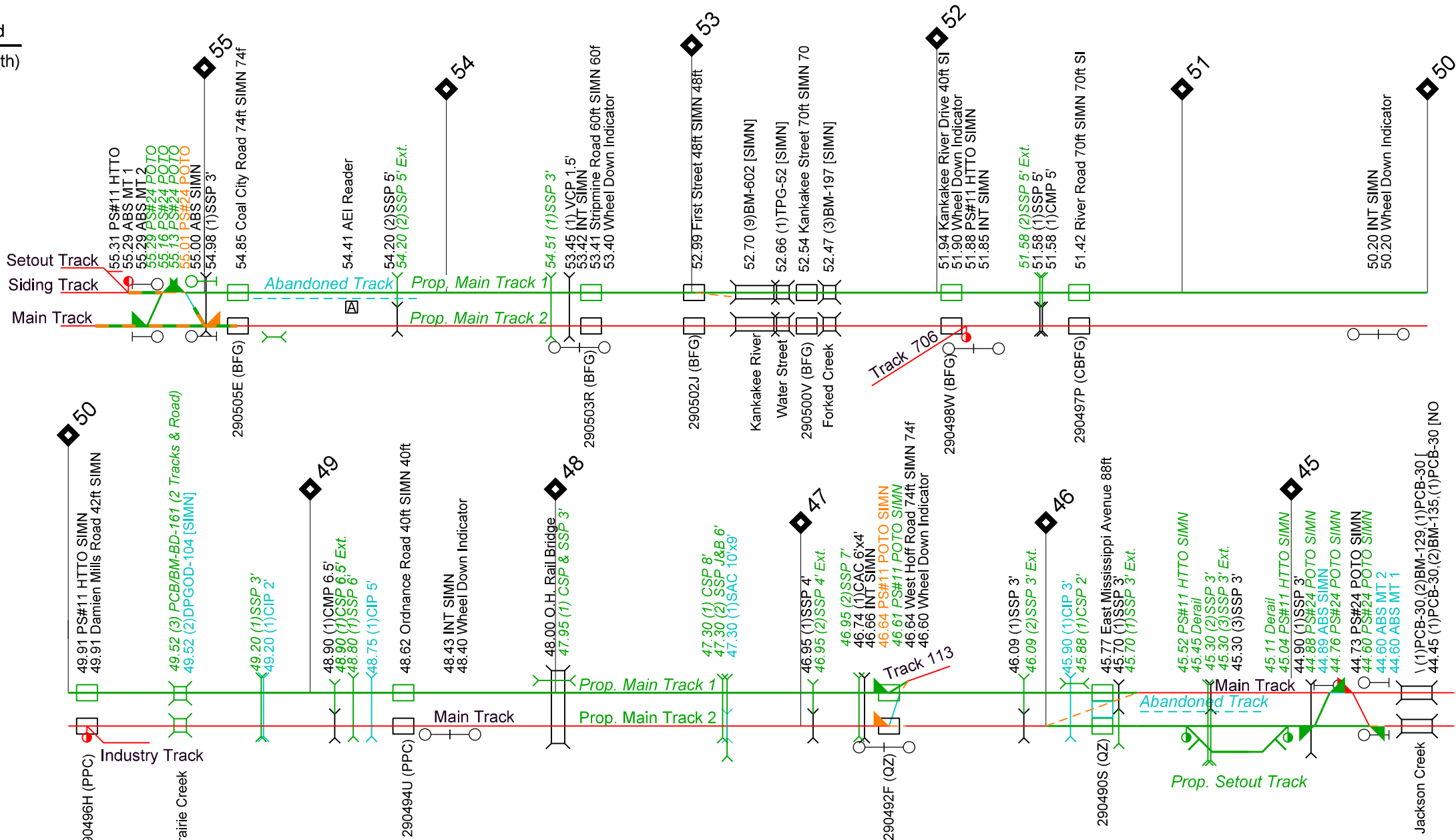


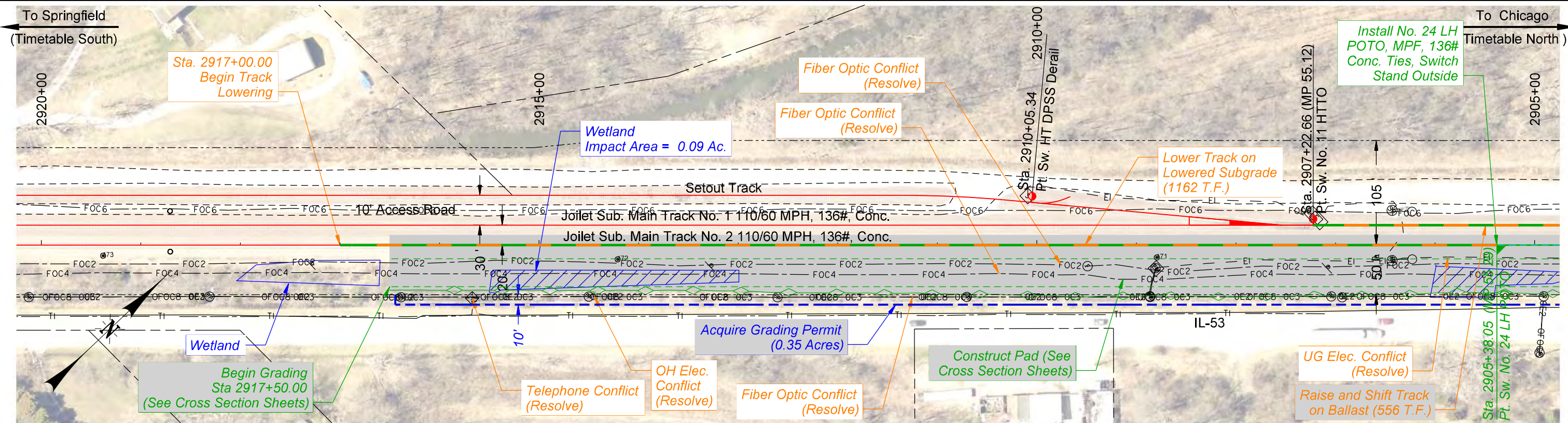
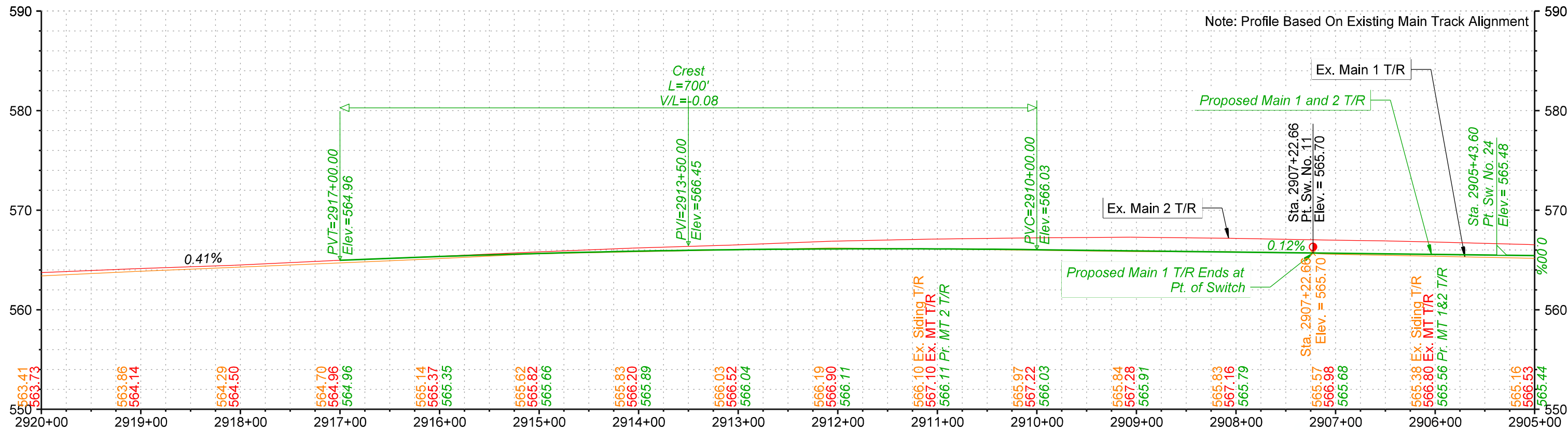
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DATE:
09/19/2024
SHEET NUMBER
G007 of G007

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track
SHEET TITLE:
Plan Overview Map

To Springfield
(Timetable South)

To Chicago
(Timetable North)



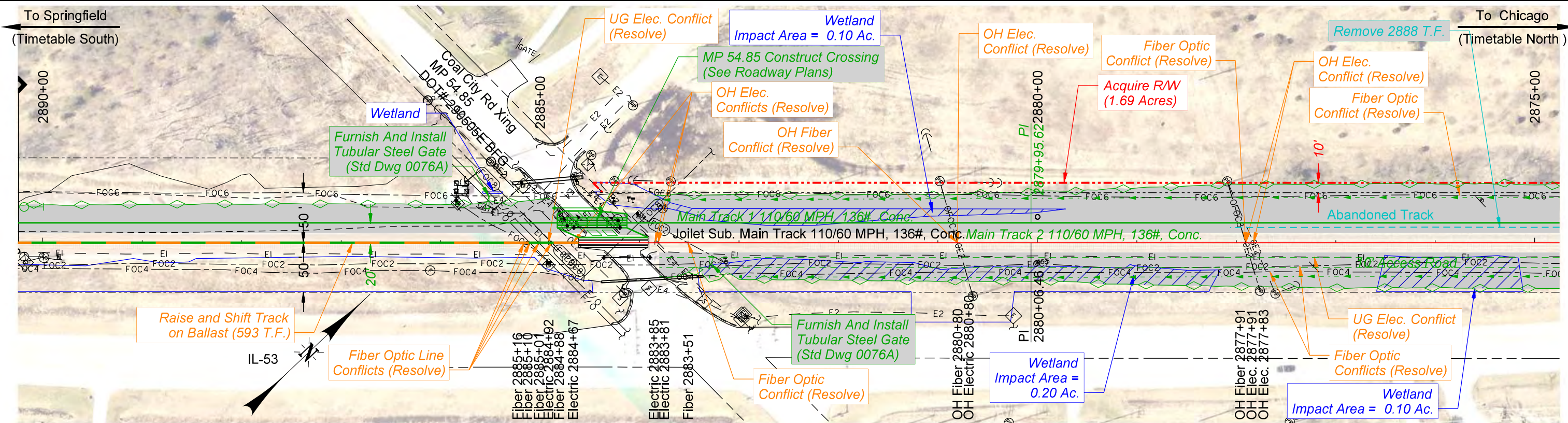
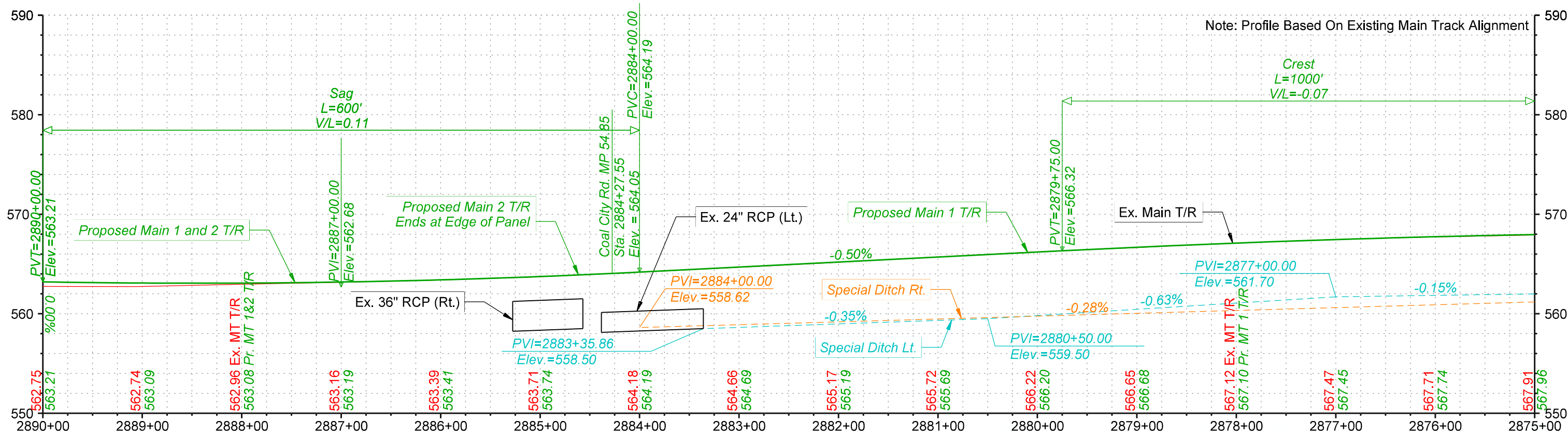


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DATE: 09/19/2024	SHEET TITLE: Track Plan & Profiles
SHEET NUMBER P001 of P040	

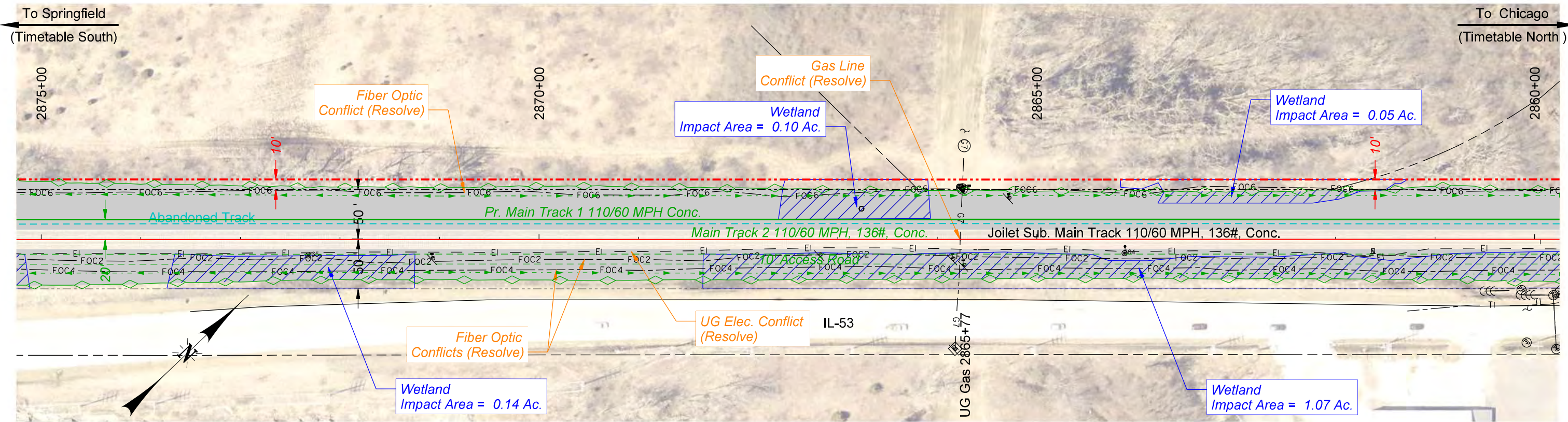
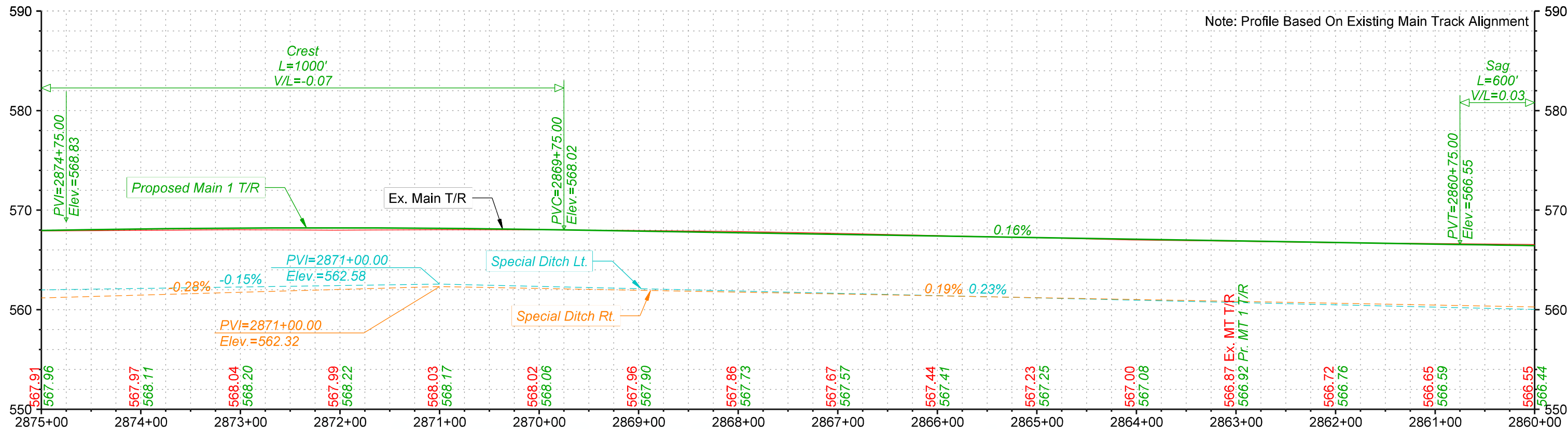


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SHEET NUMBER: P003 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track
SHEET TITLE: Track Plan & Profiles

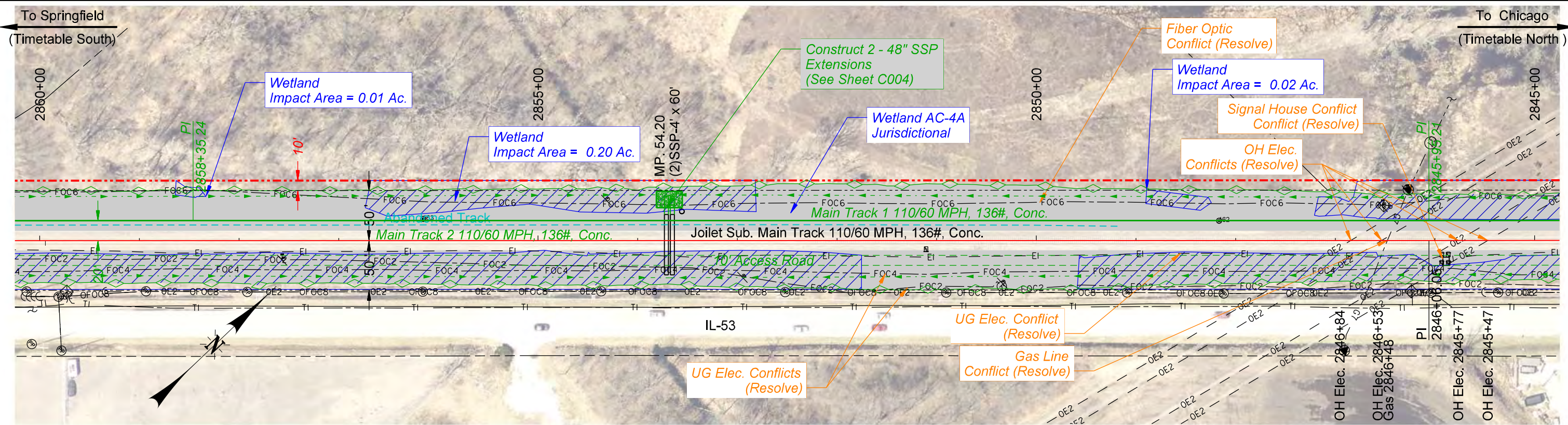
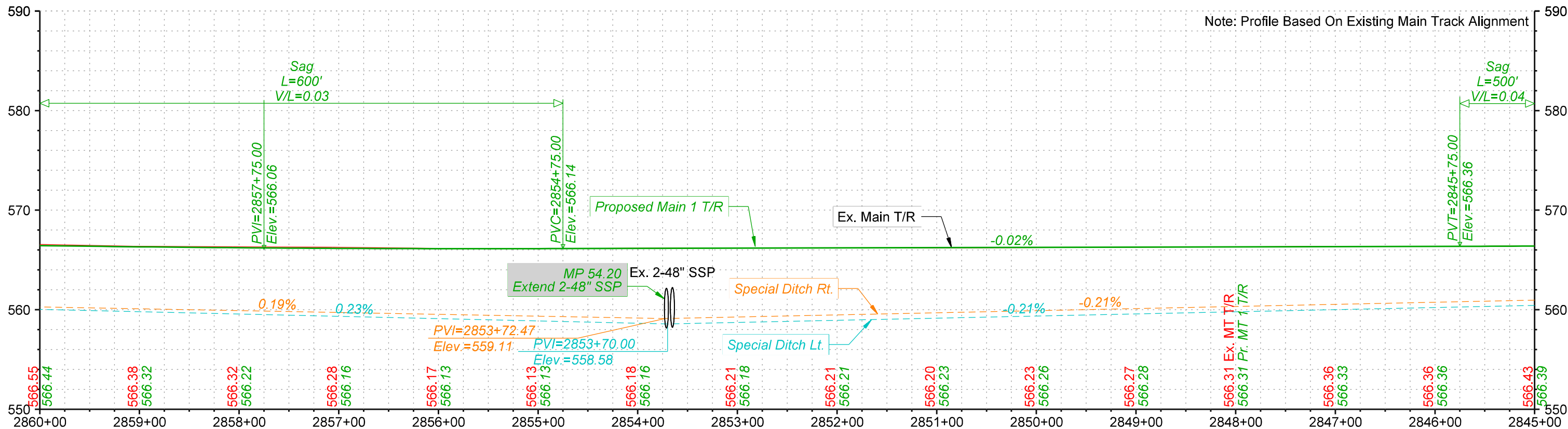


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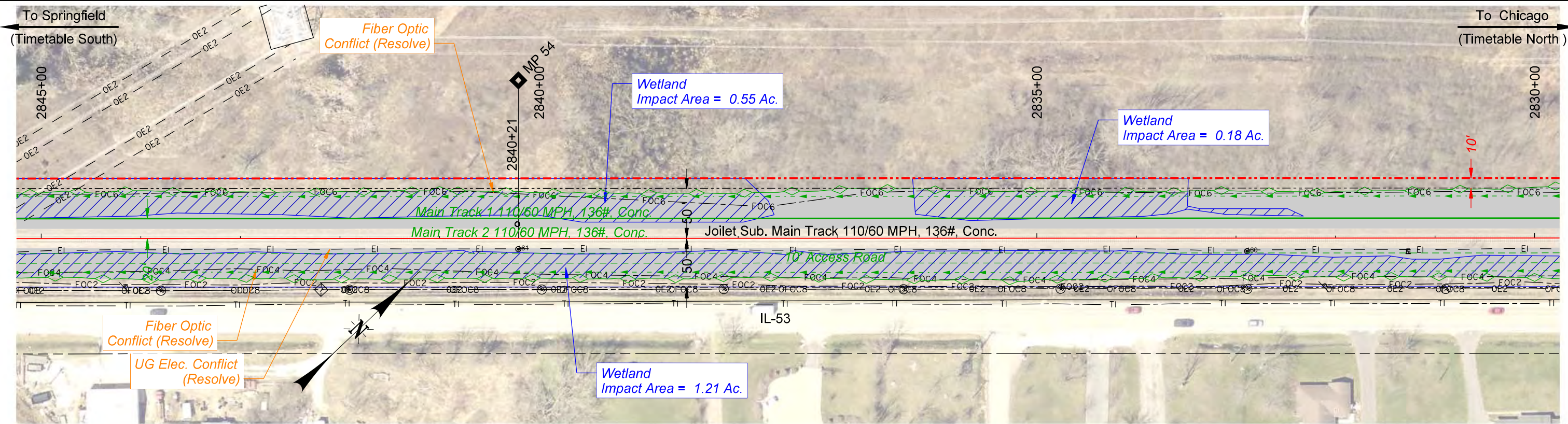
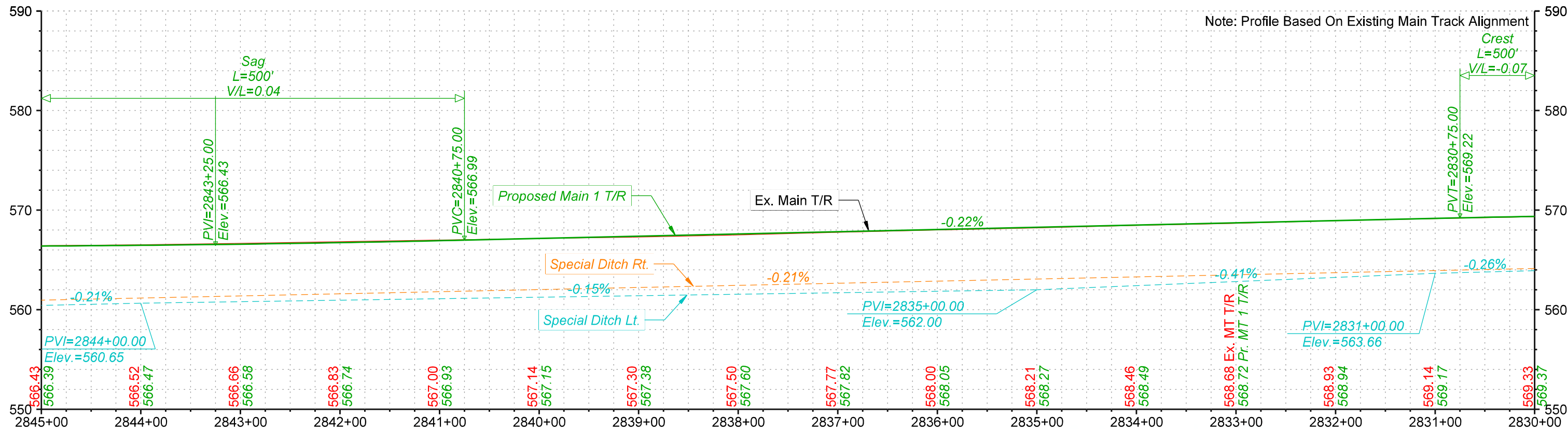
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LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track
SHEET TITLE: Track Plan & Profiles



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SHEET NUMBER: P005 of P040	
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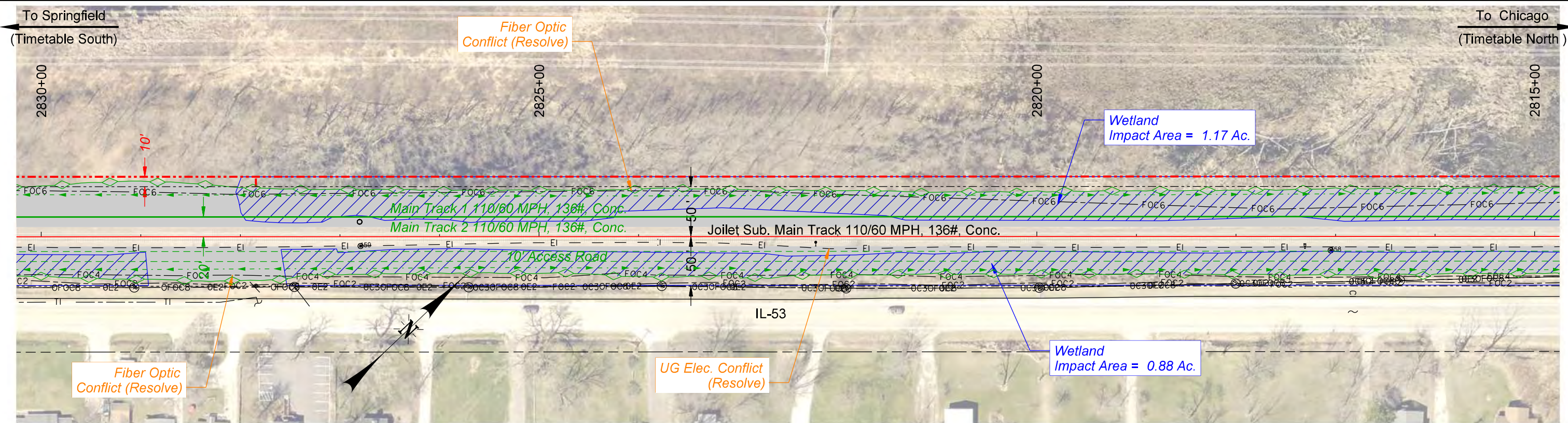
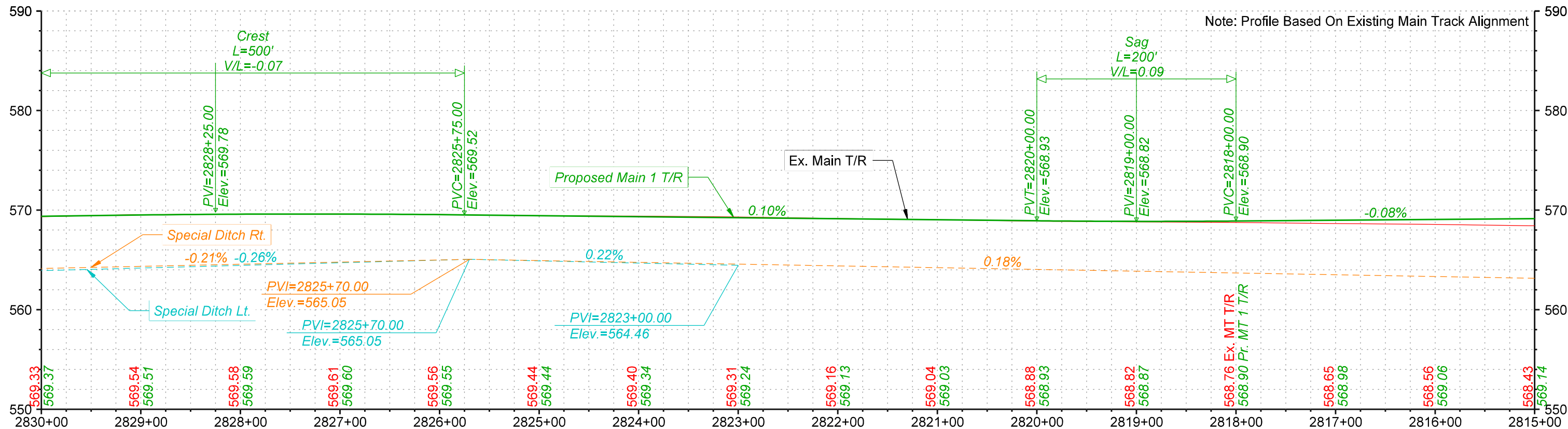


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SHEET NUMBER: P006 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track
SHEET TITLE: Track Plan & Profiles



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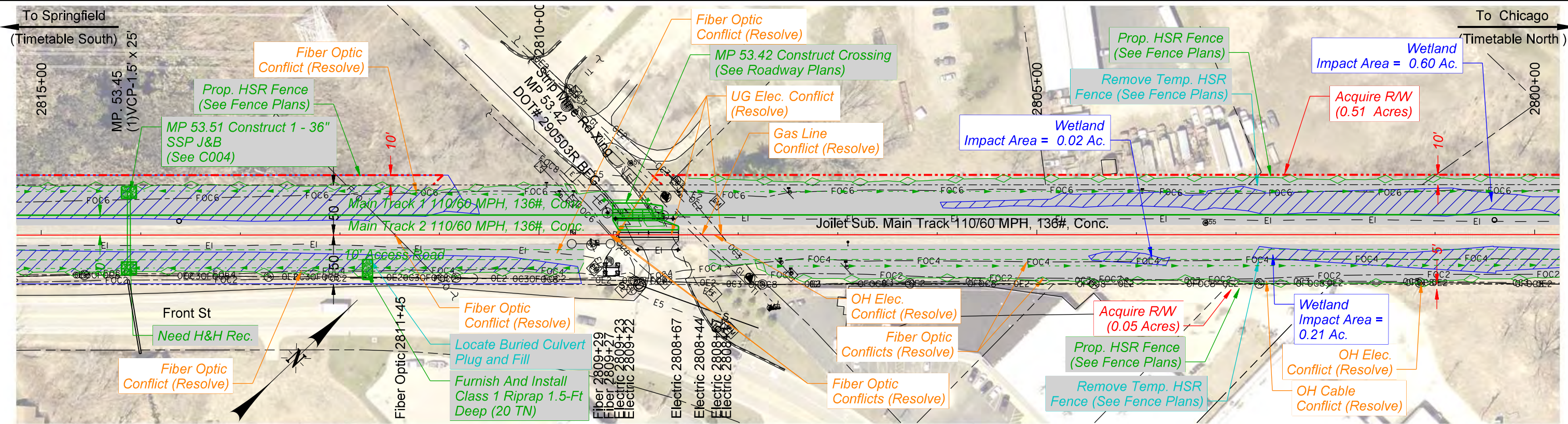
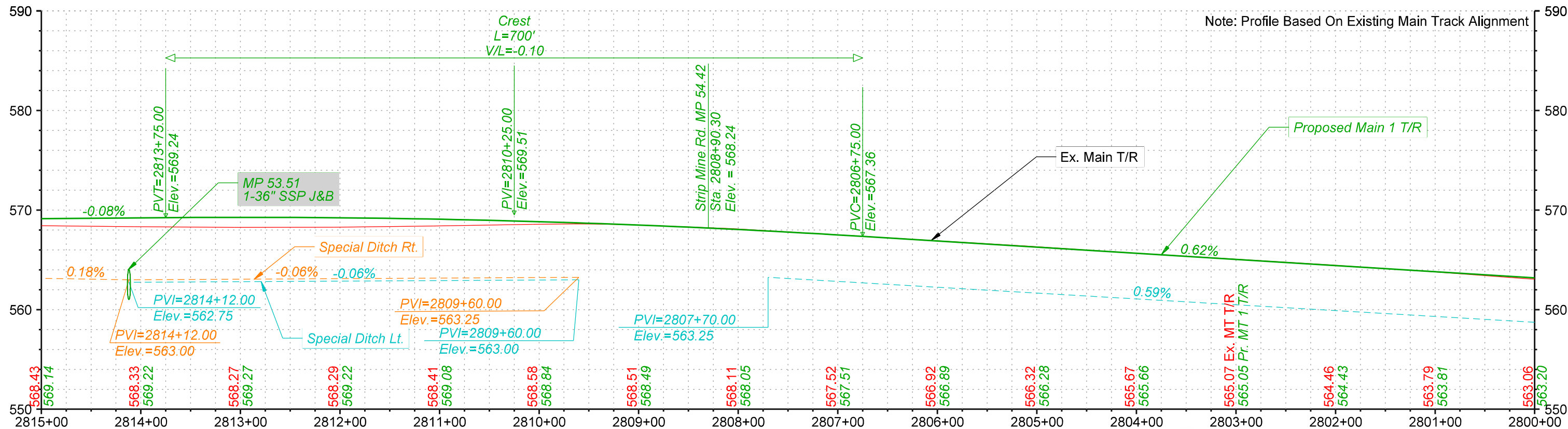


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DATE: 09/19/2024
SHEET NUMBER
P007 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE:
Track Plan & Profiles



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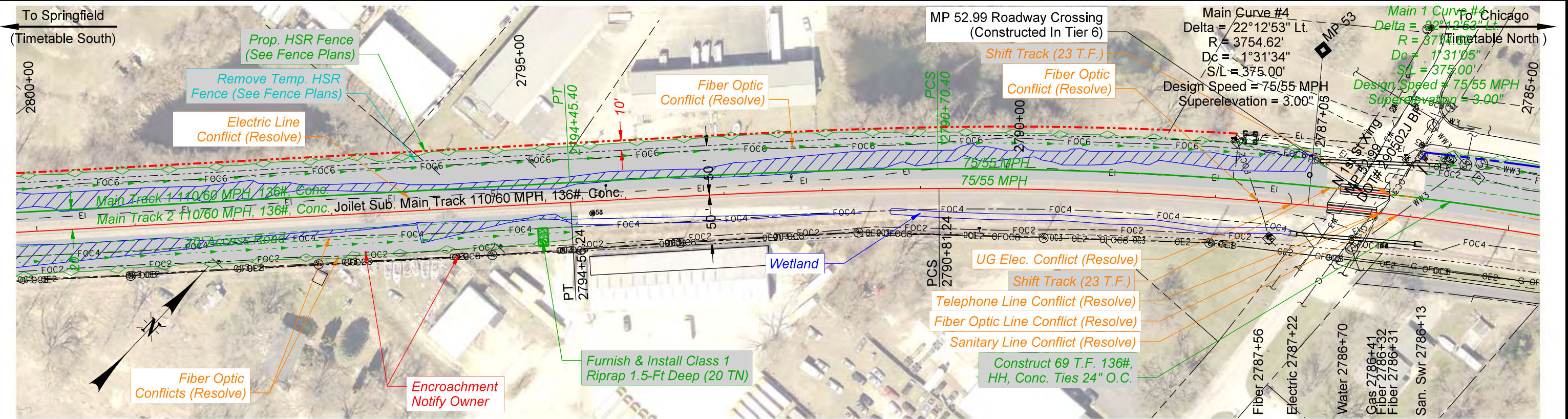
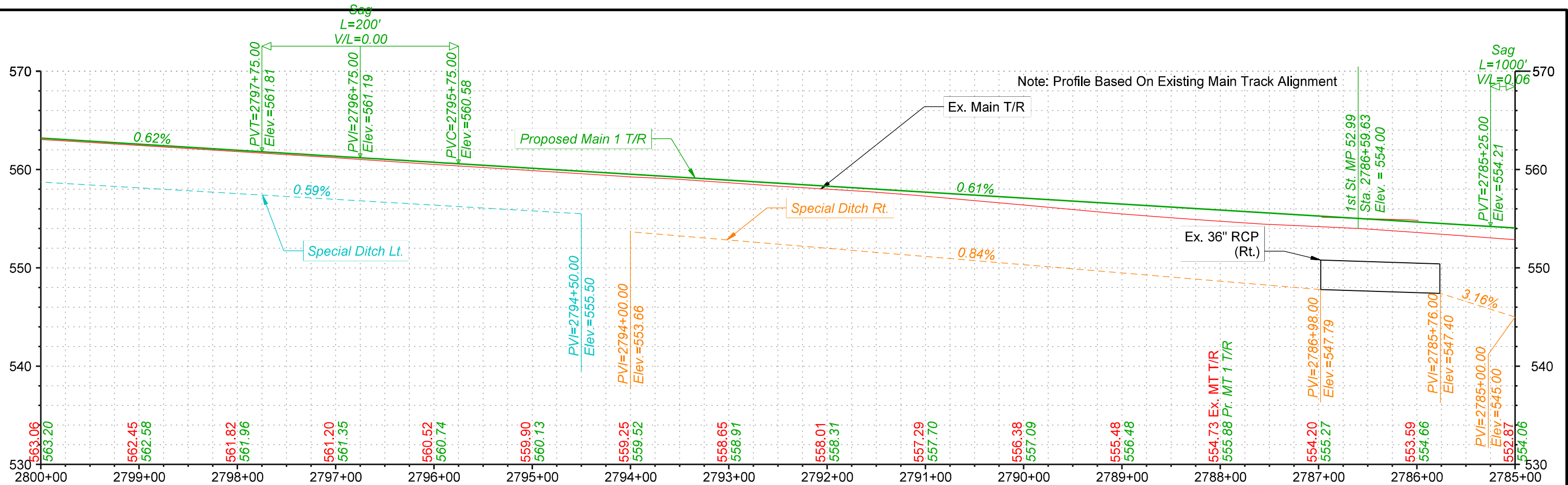


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DATE: 09/19/2024
SHEET NUMBER
P008 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE:
Track Plan & Profiles

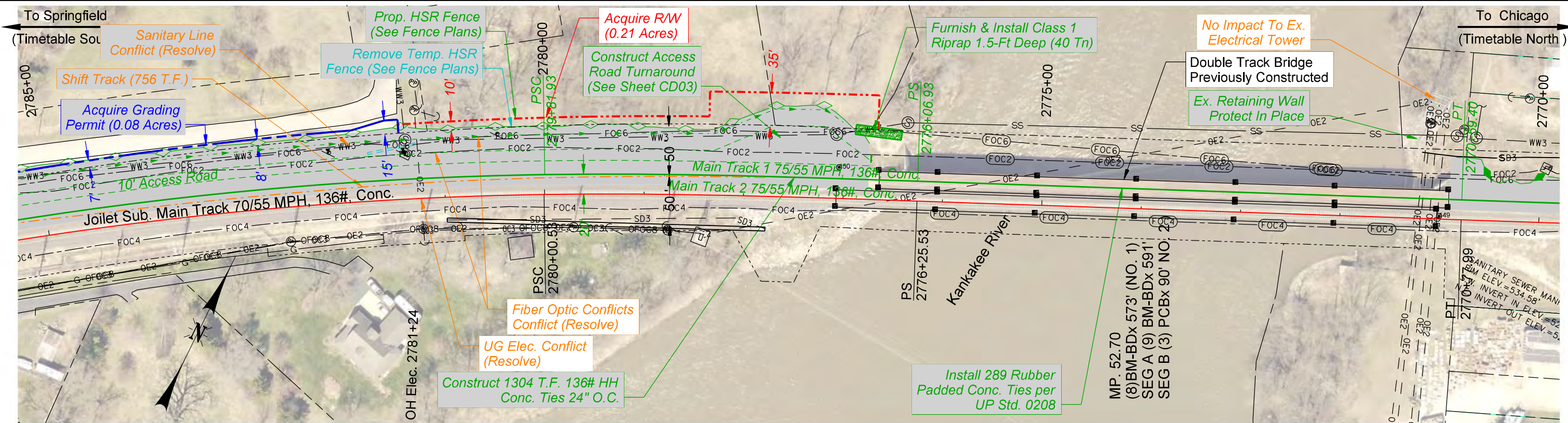
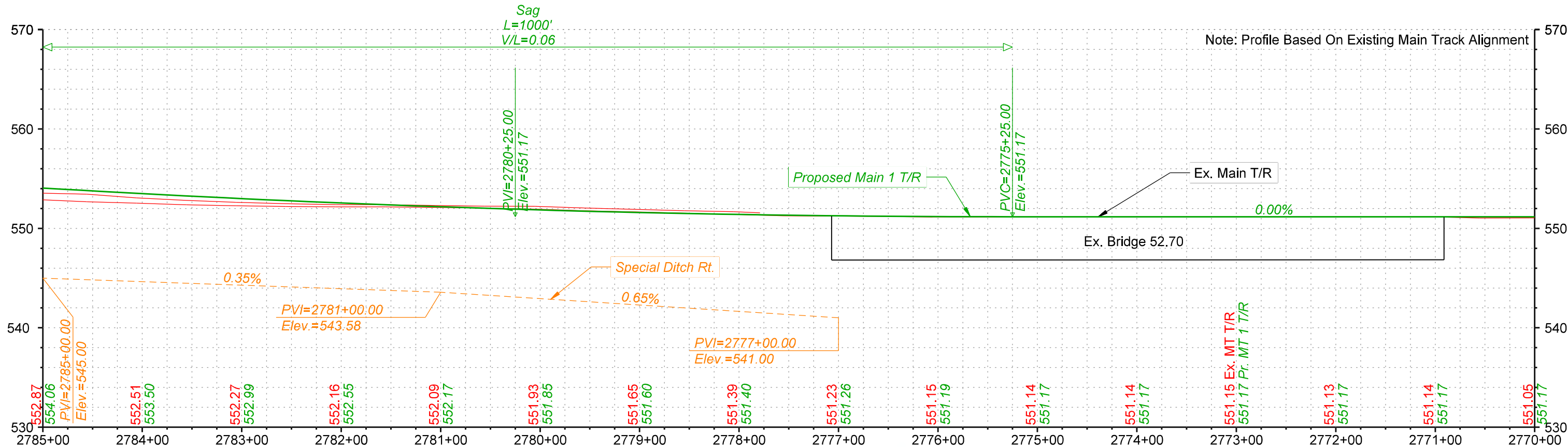


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SHEET NUMBER: P009 of P040

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LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track
SHEET TITLE: Track Plan & Profiles



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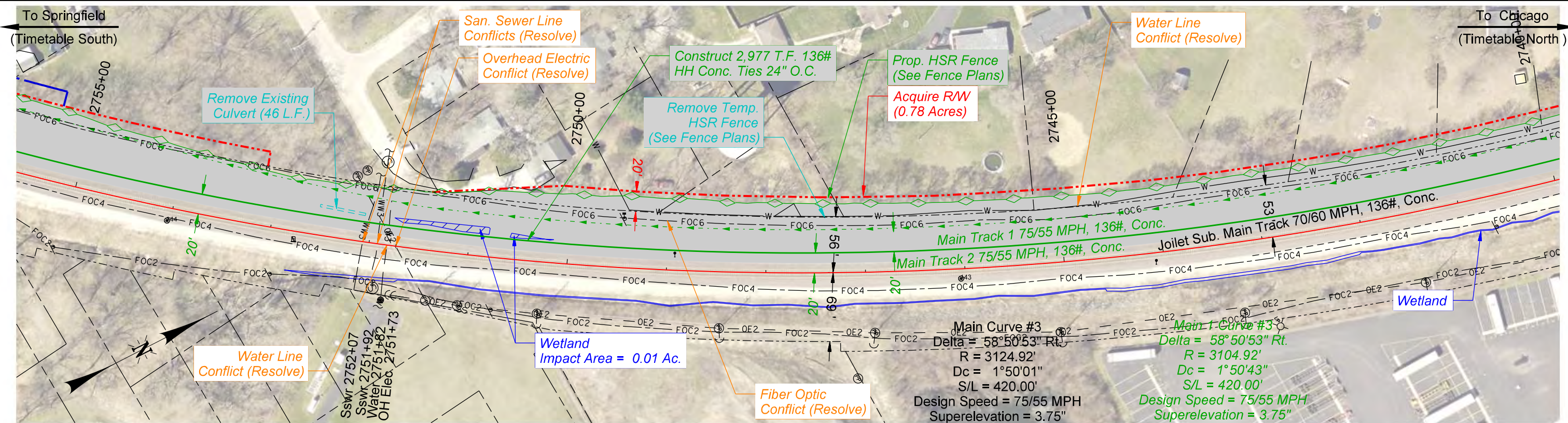
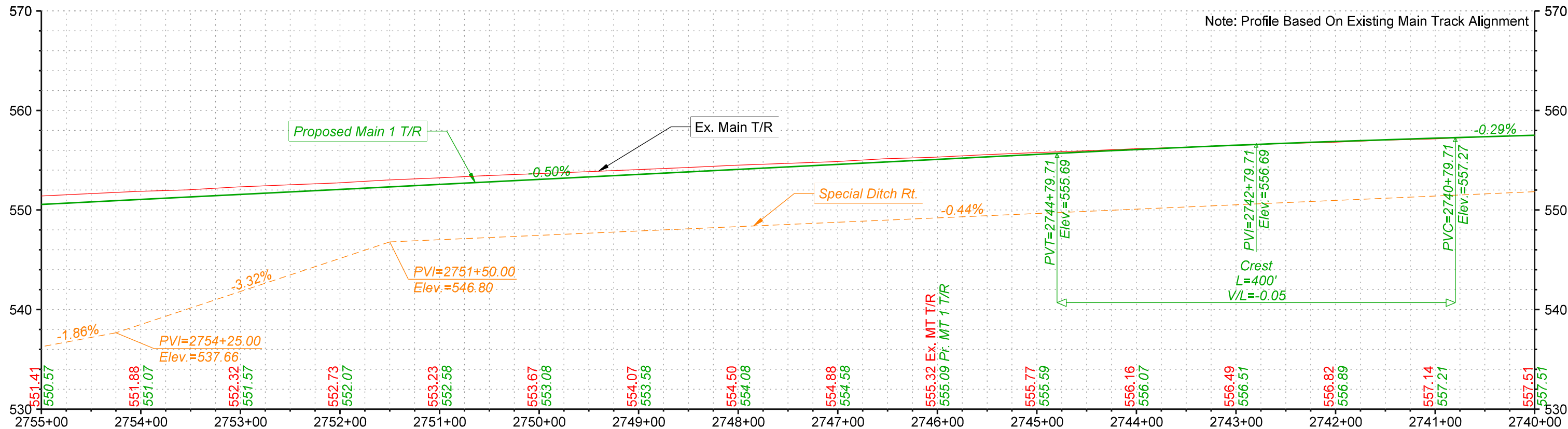


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DATE: 09/19/2024
SHEET NUMBER: P010 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles

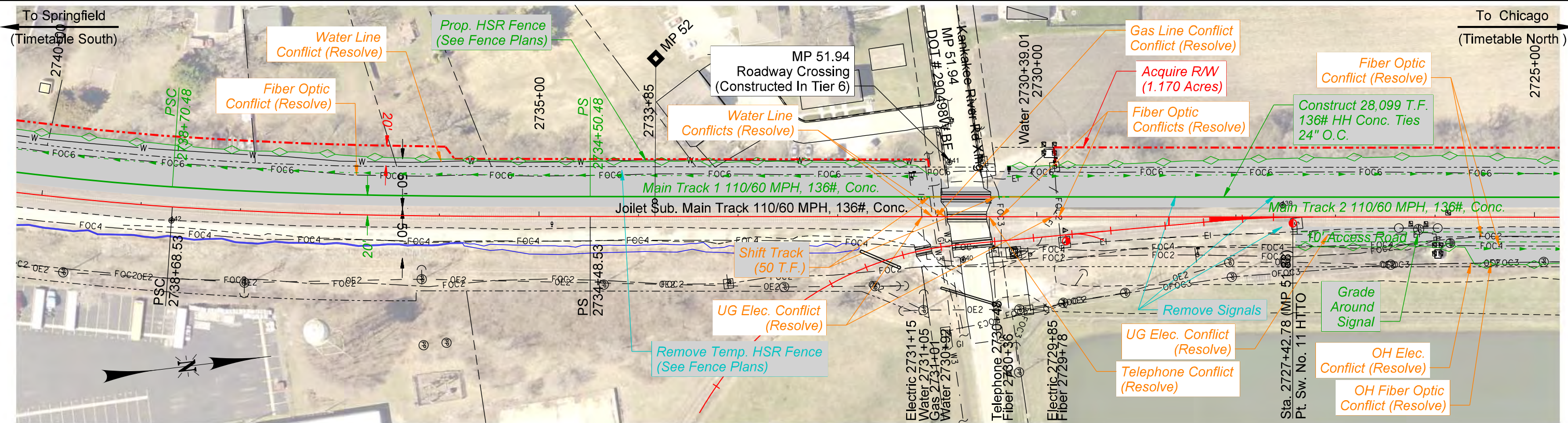
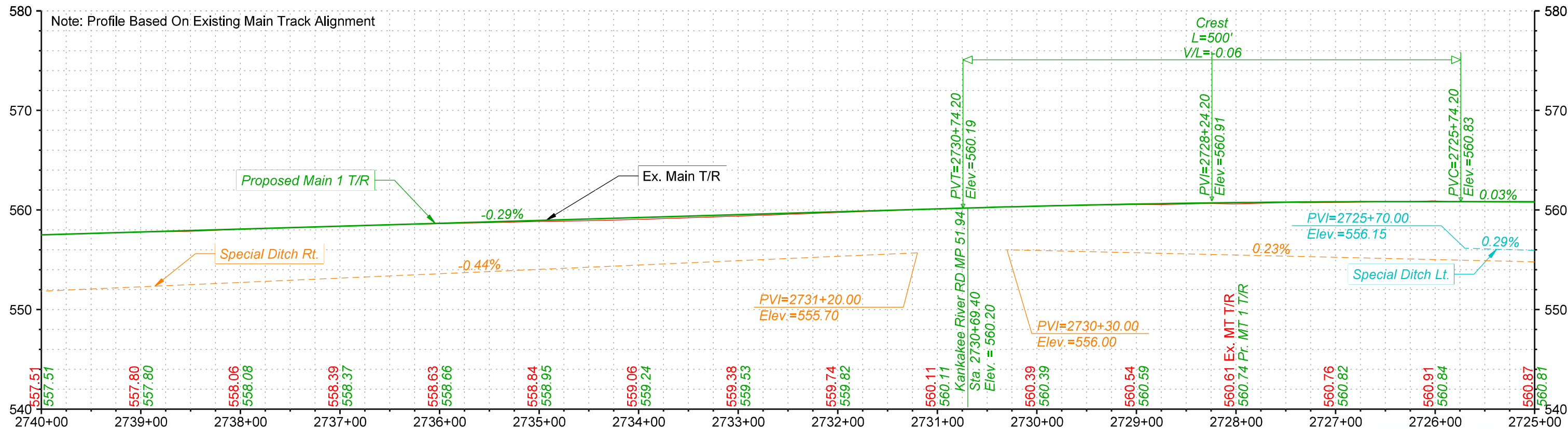


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SHEET NUMBER: P012 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track
SHEET TITLE: Track Plan & Profiles

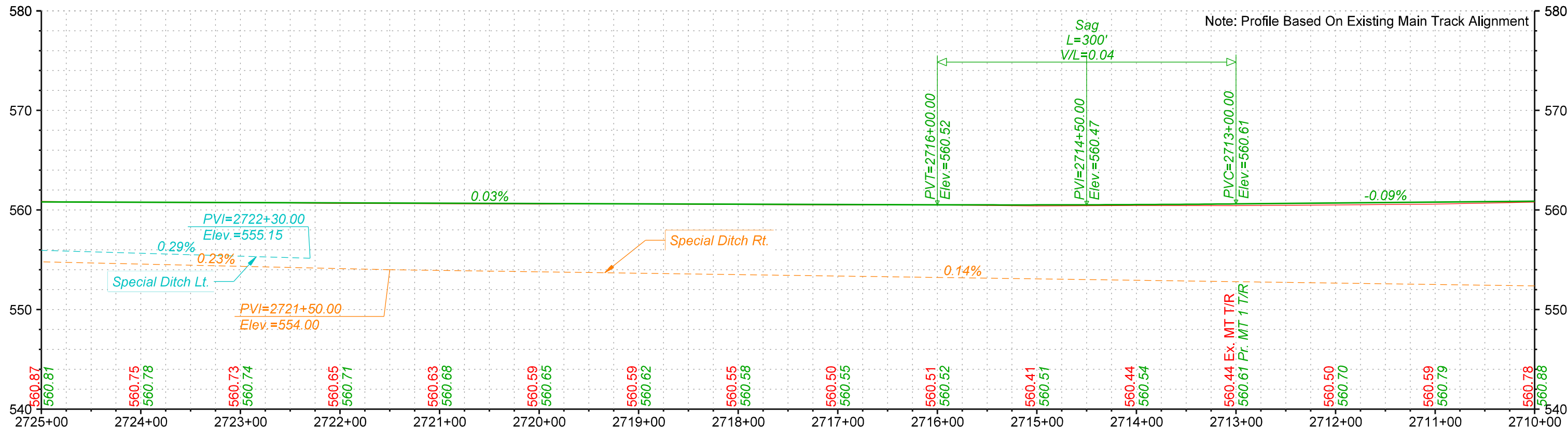


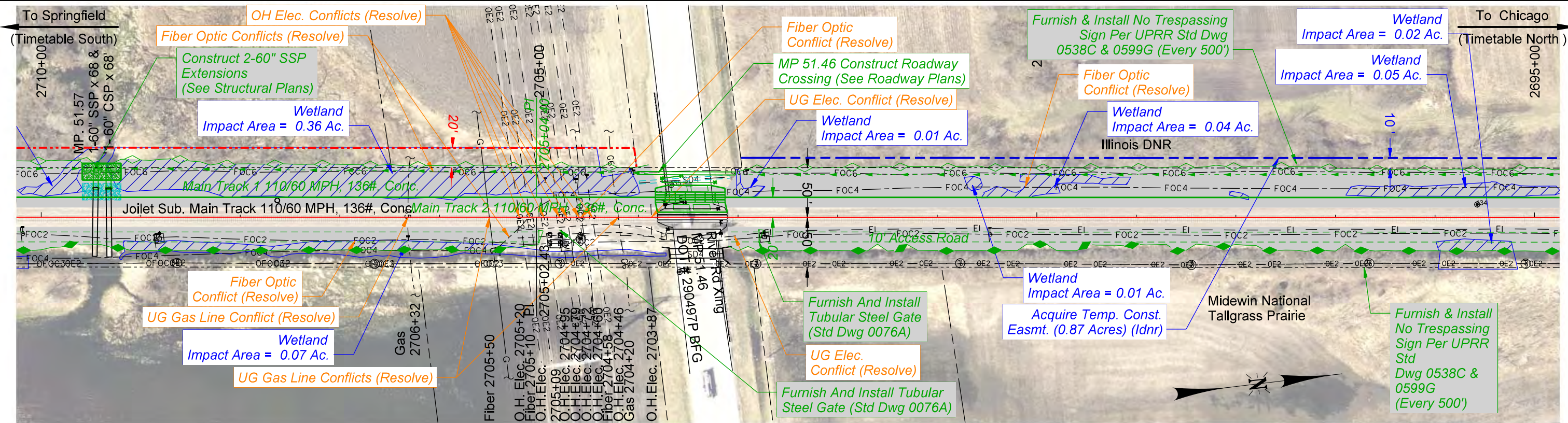
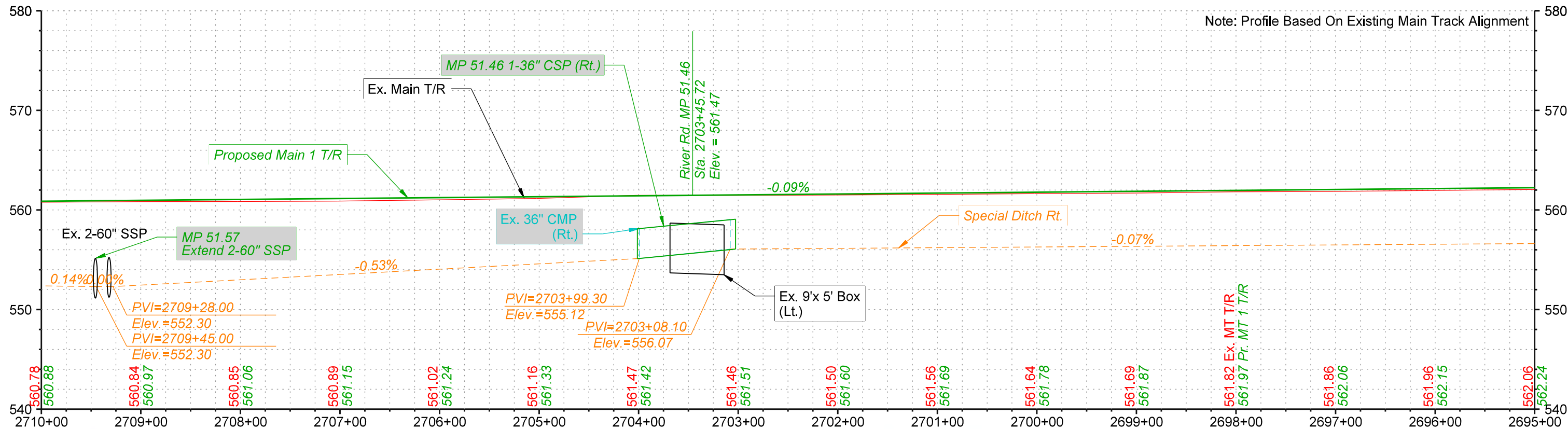
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SHEET TITLE: Track Plan & Profiles	





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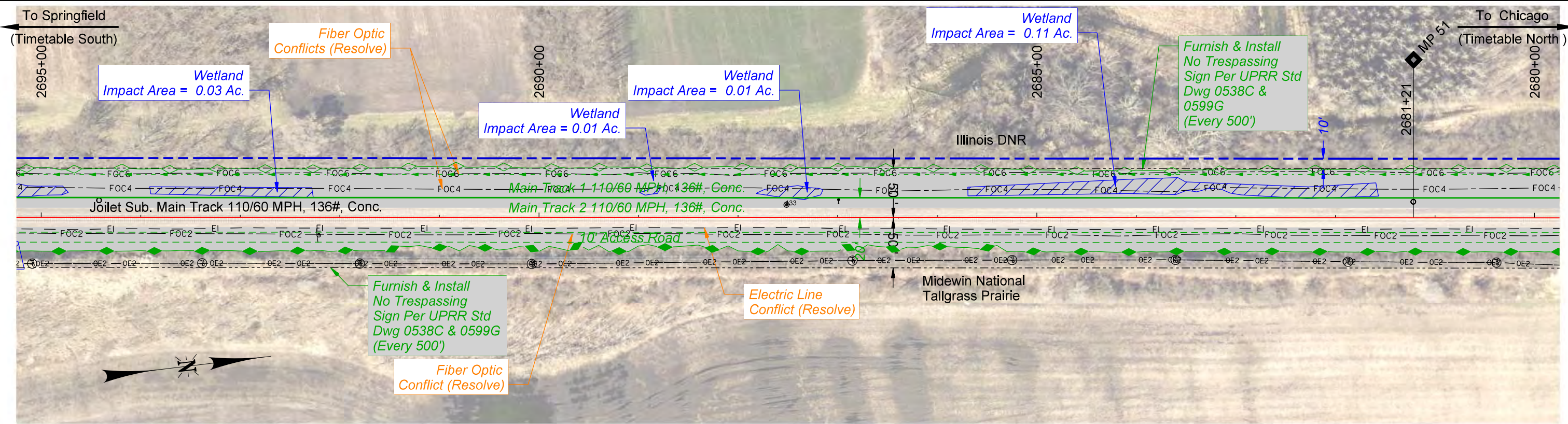
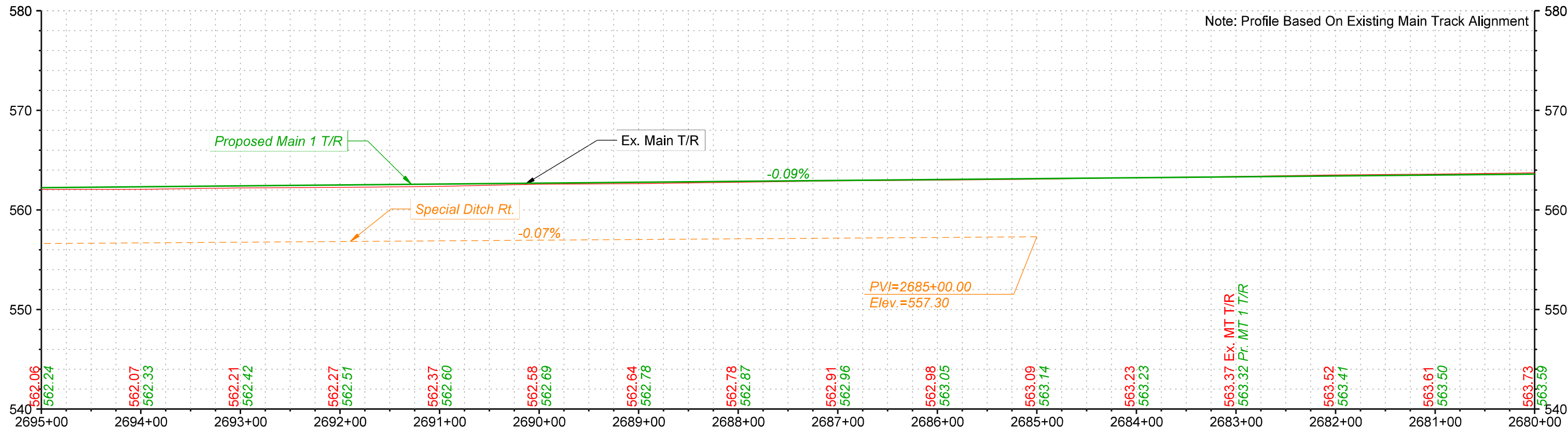


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DATE: 09/19/2024
SHEET NUMBER: P015 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track

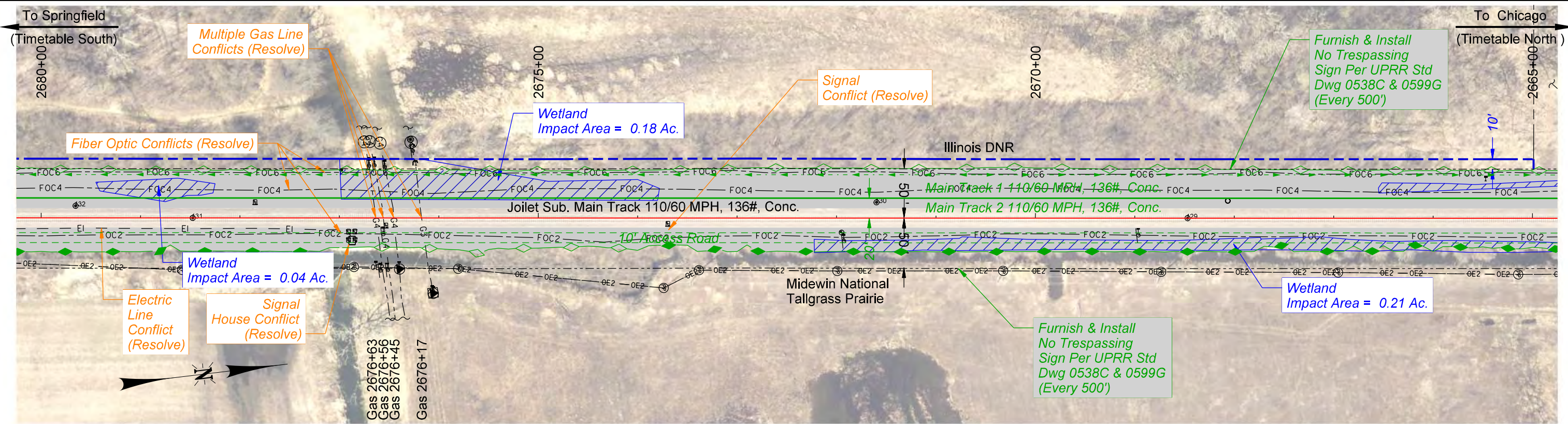
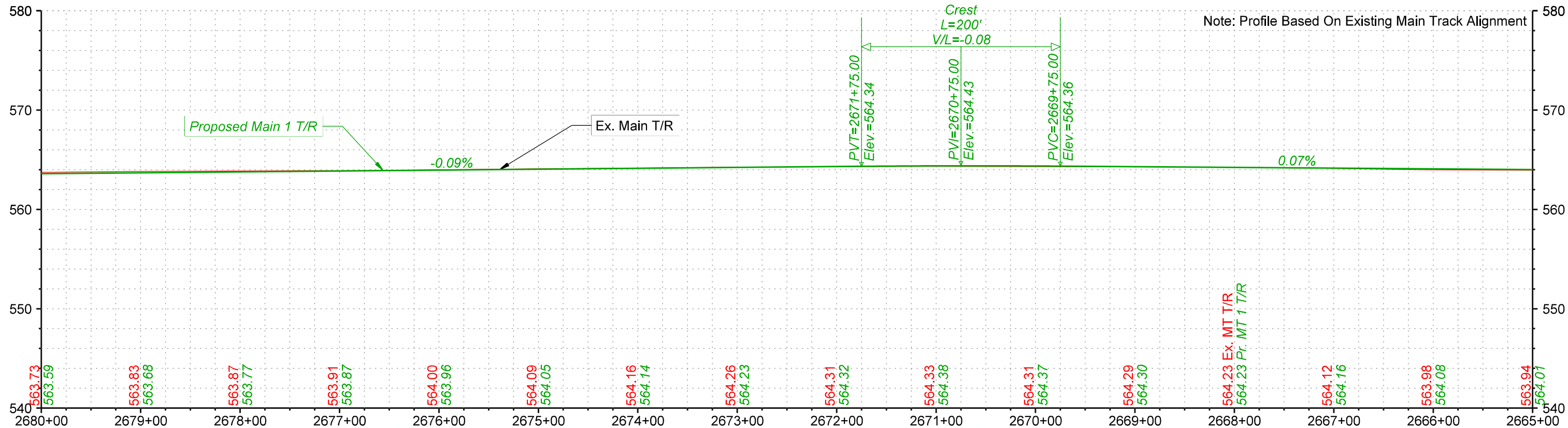
SHEET TITLE: Track Plan & Profiles



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DATE: 09/19/2024	
SHEET NUMBER P016 of P040	
SHEET TITLE: Track Plan & Profiles	



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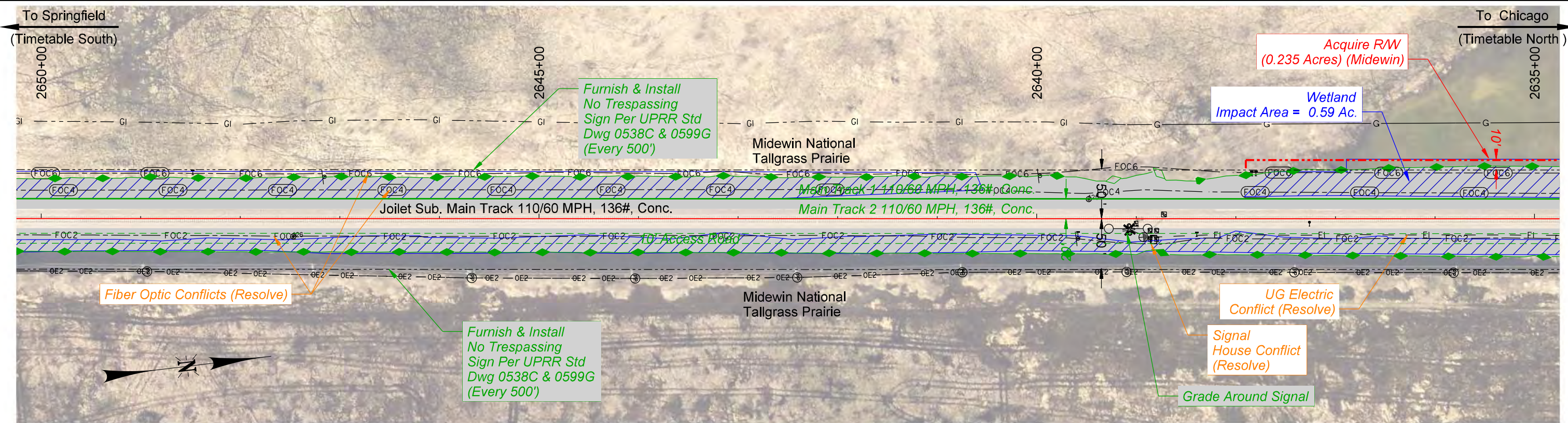
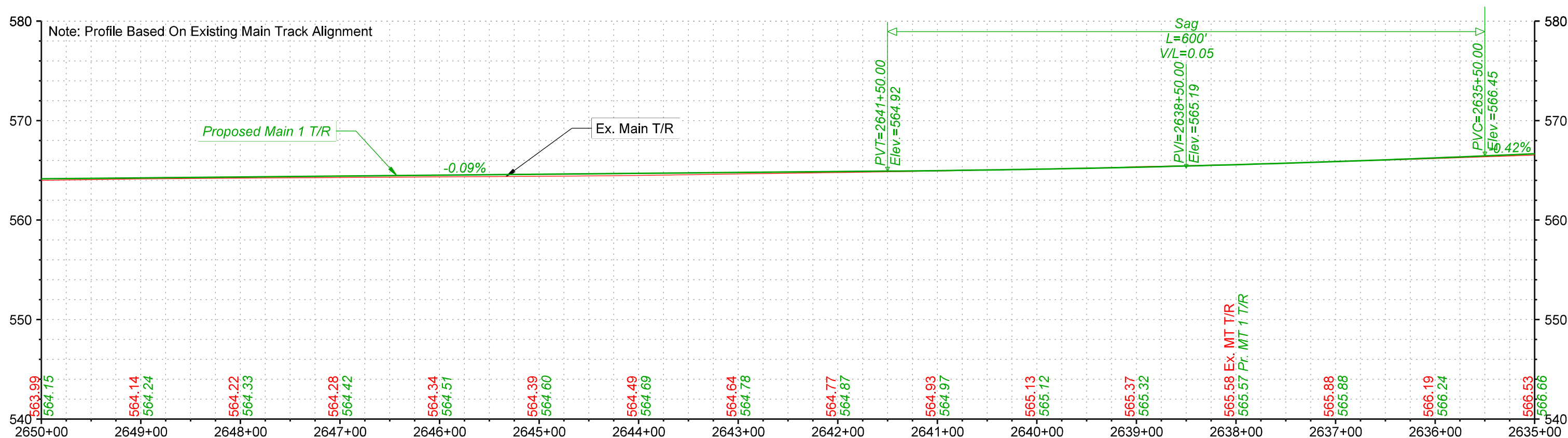


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DATE: 09/19/2024
SHEET NUMBER: P017 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles



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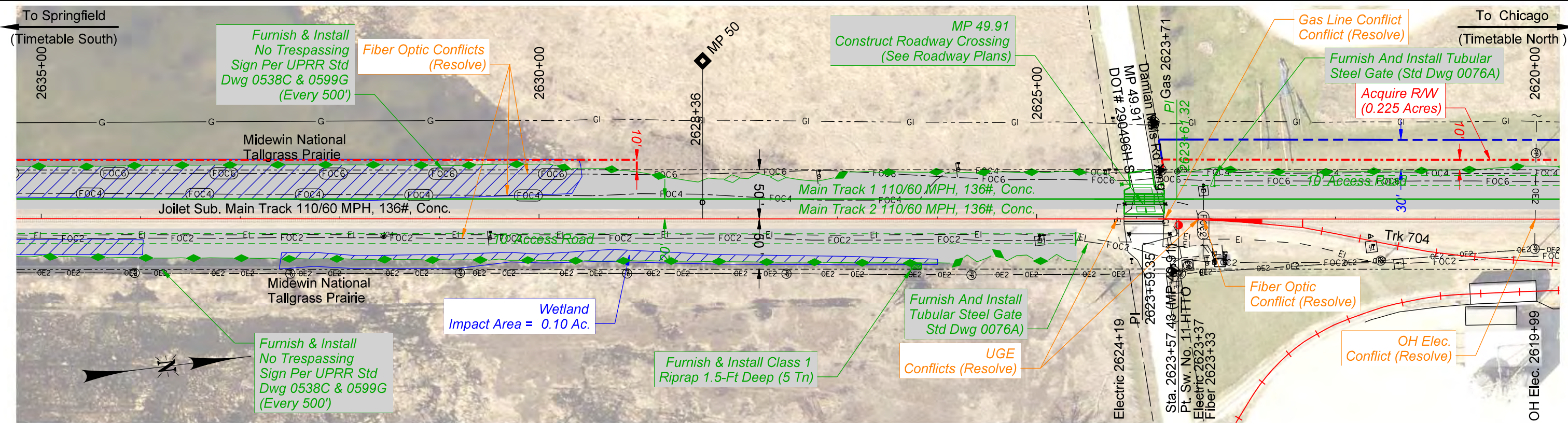
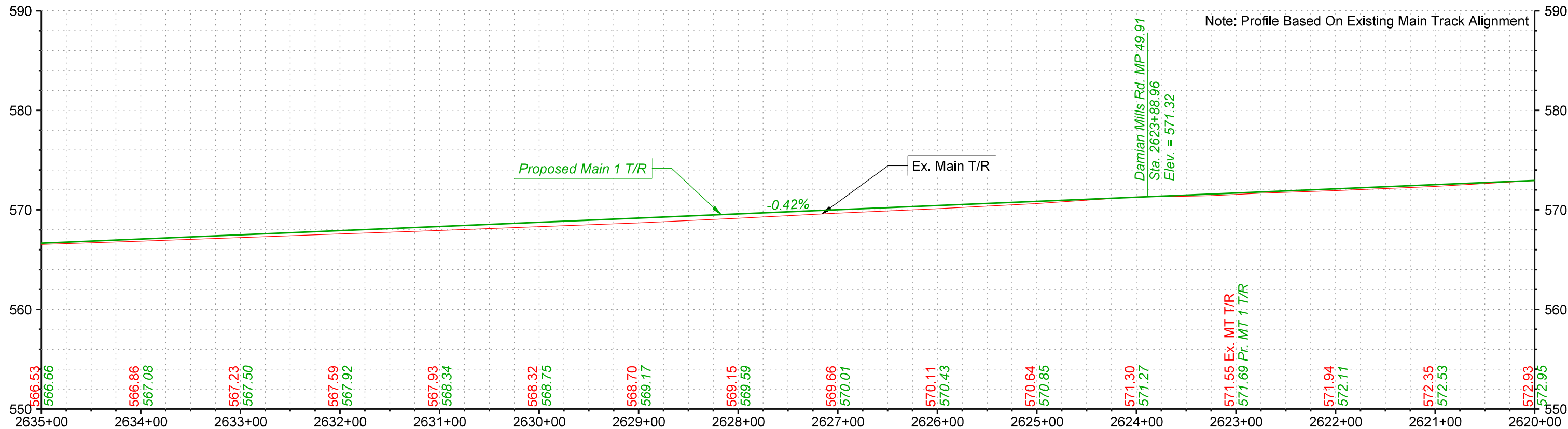


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DATE: 09/19/2024
SHEET NUMBER: P019 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joilet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles

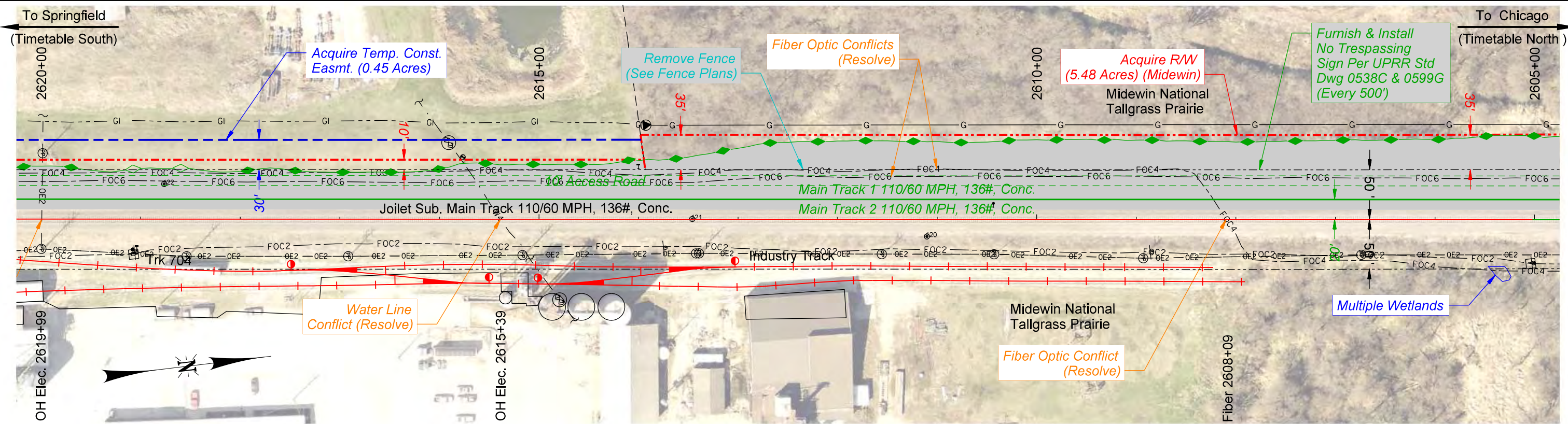
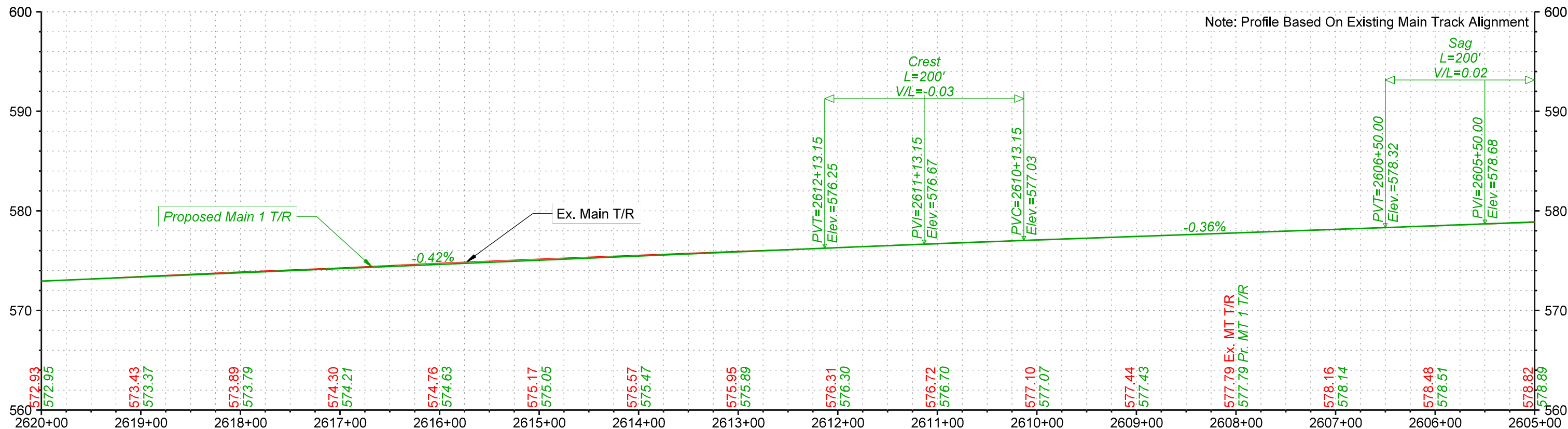


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DATE: 09/19/2024	
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SHEET TITLE: Track Plan & Profiles	



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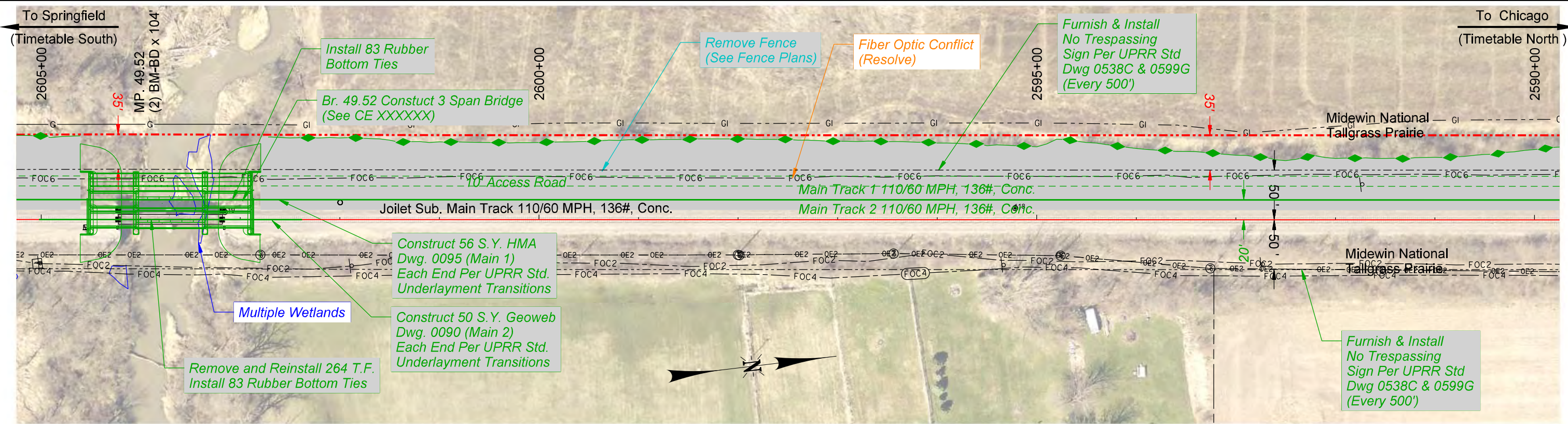
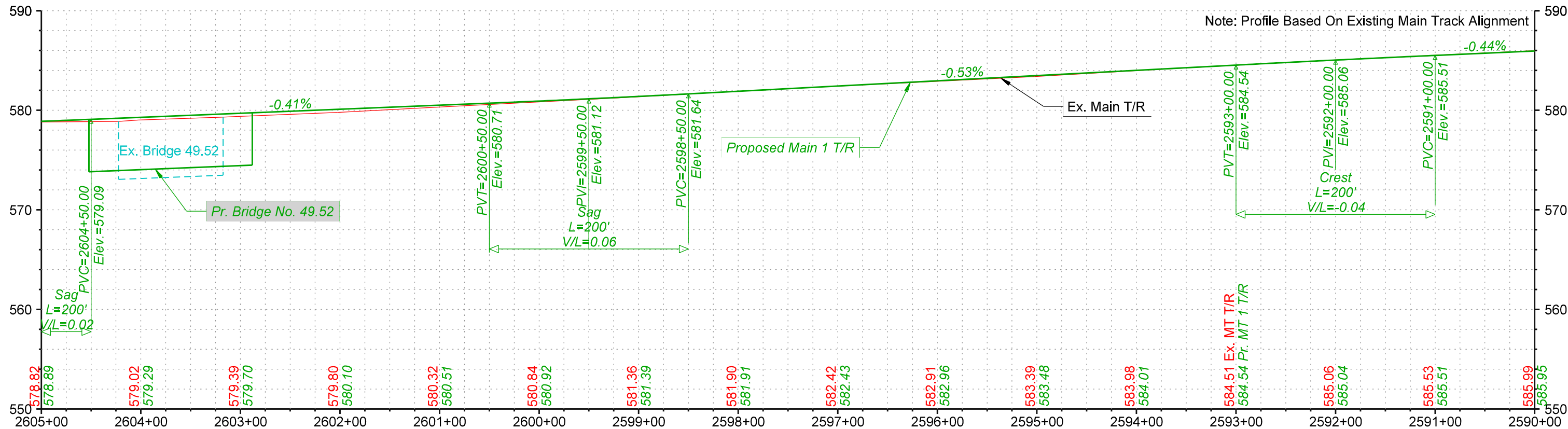


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SHEET NUMBER: P021 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles



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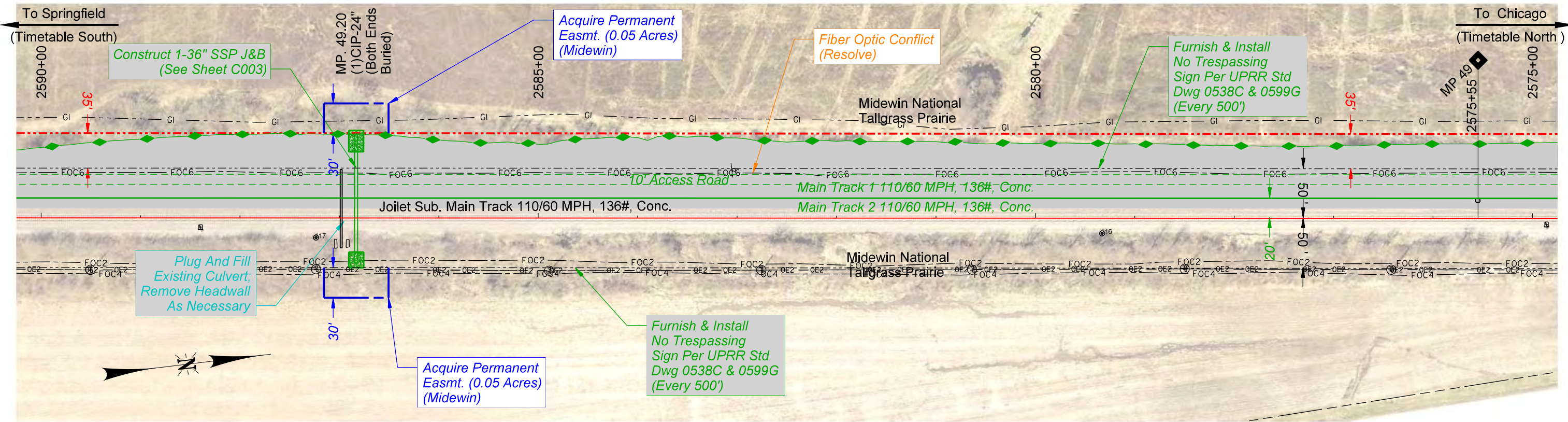
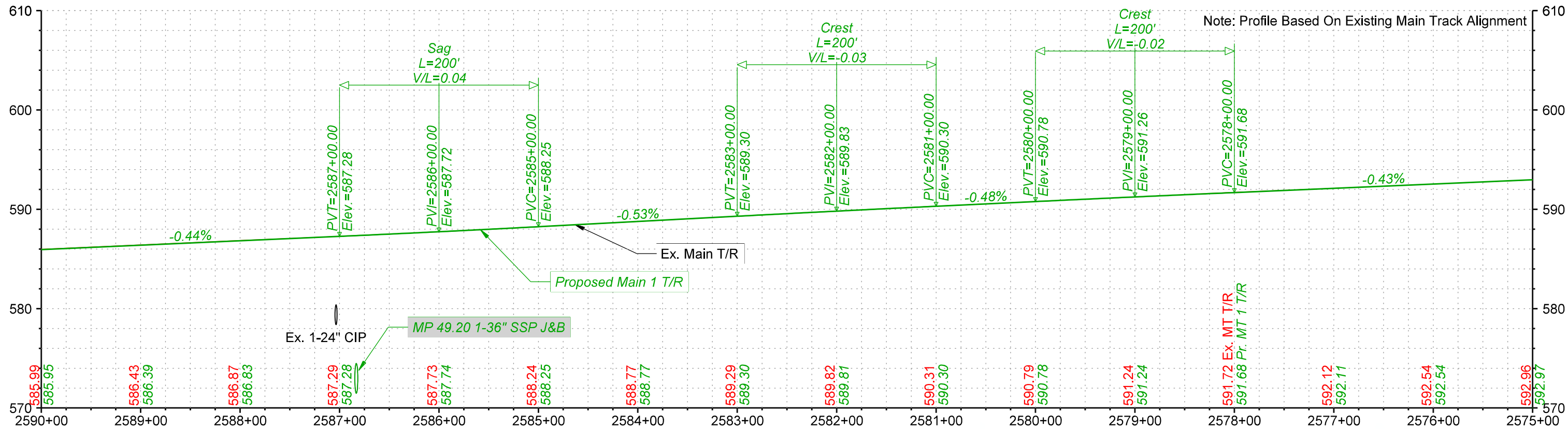


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SHEET NUMBER
P022 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles



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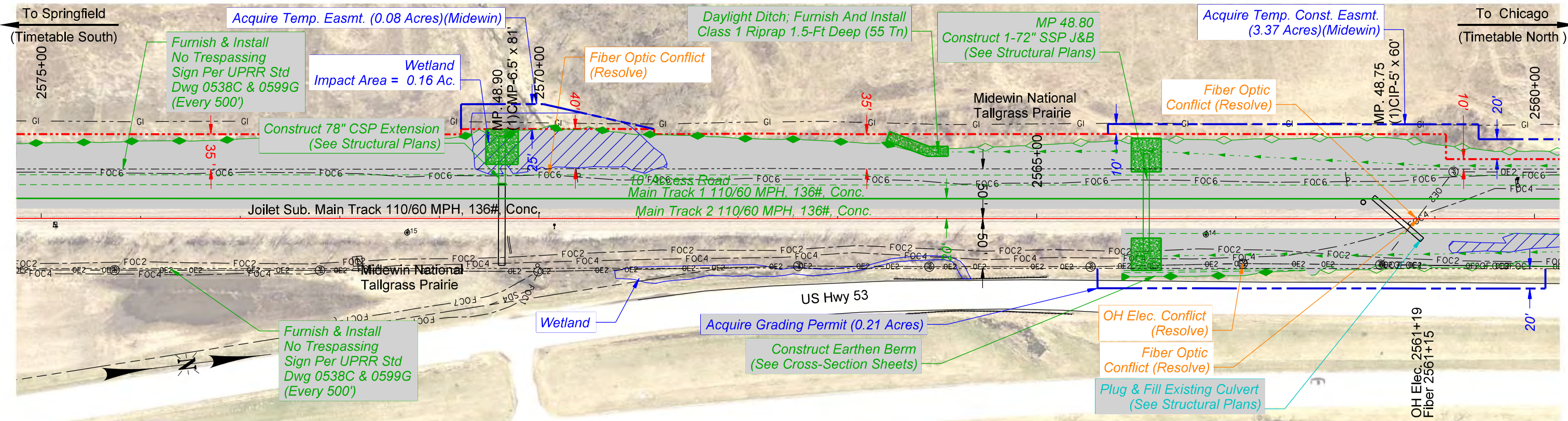
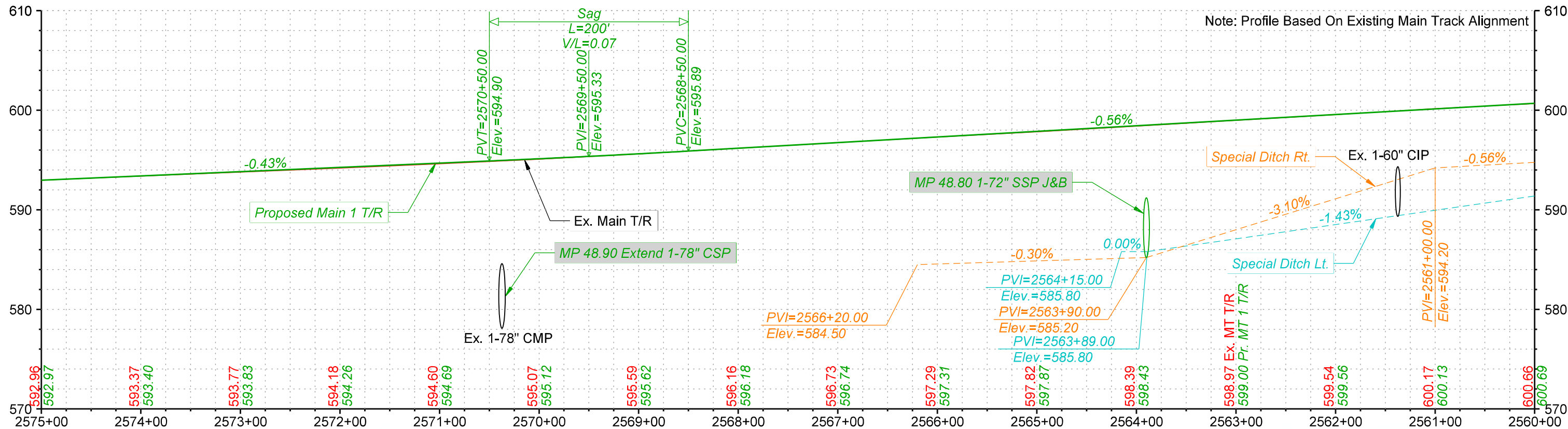


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SHEET NUMBER
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UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joilet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles



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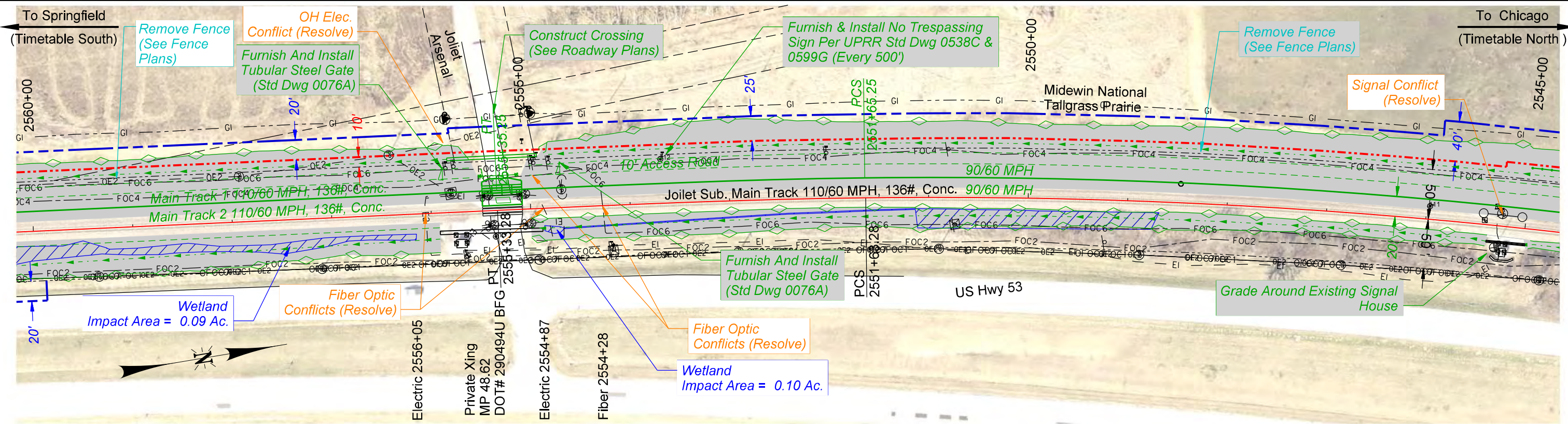
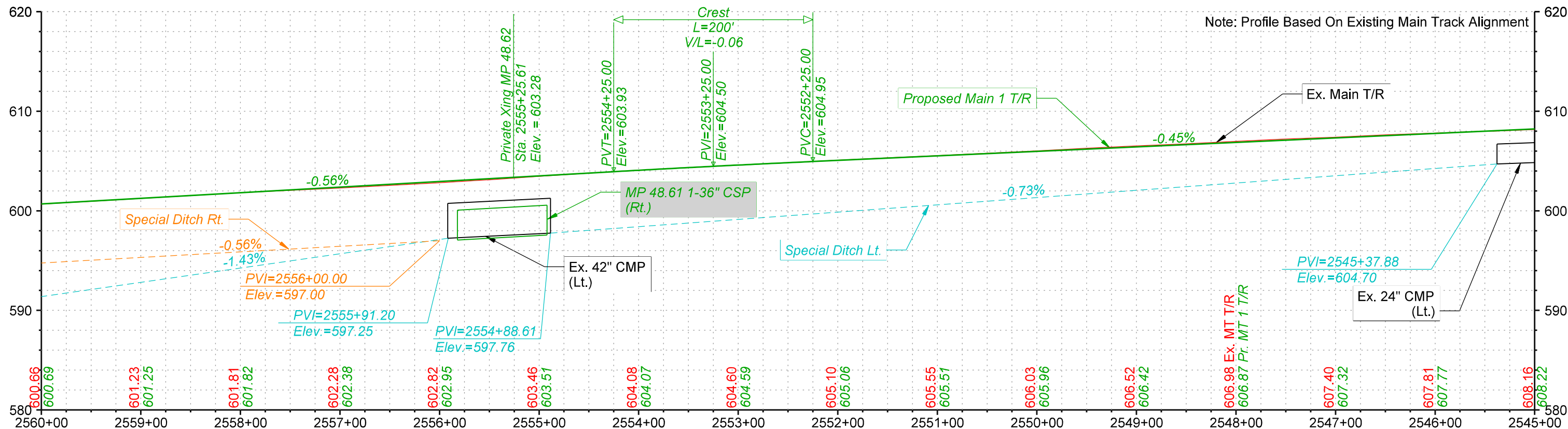


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DATE: 09/19/2024
SHEET NUMBER: P024 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles



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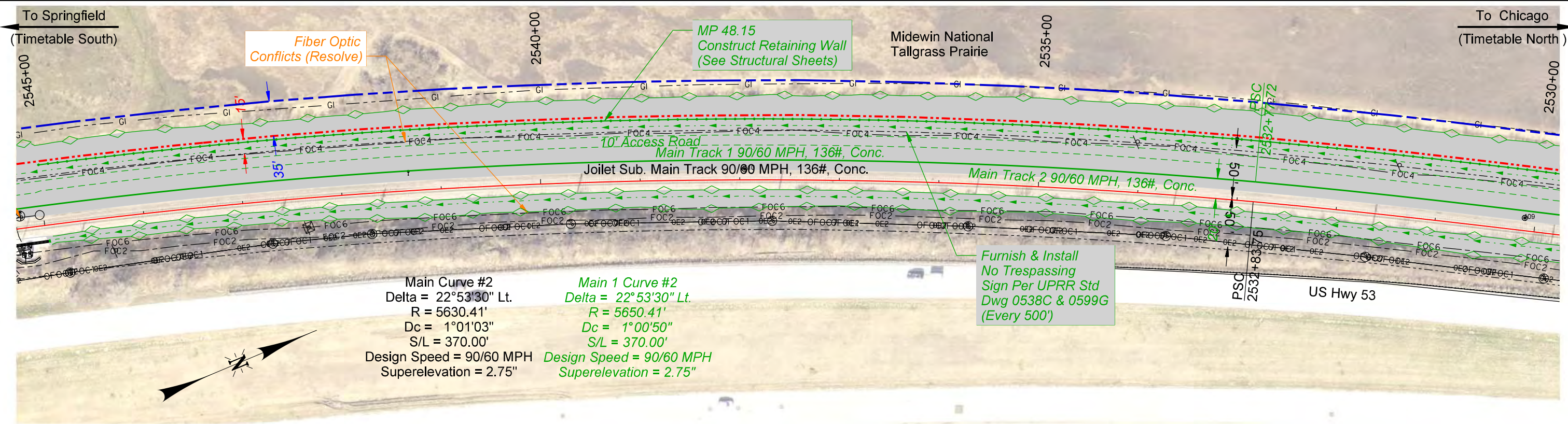
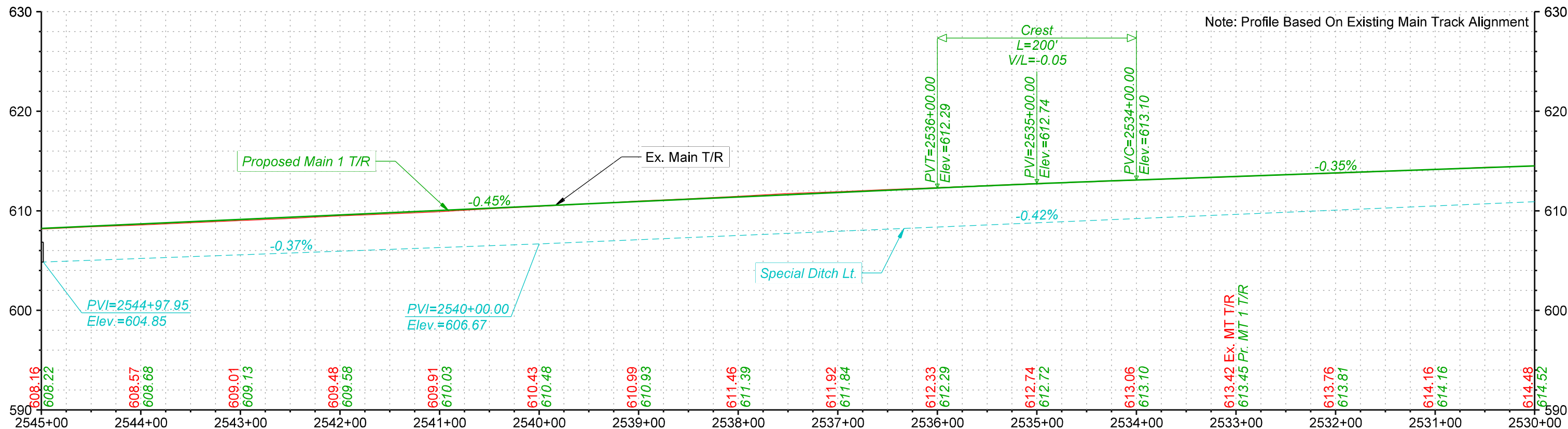
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P025 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joilet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE:
Track Plan & Profiles



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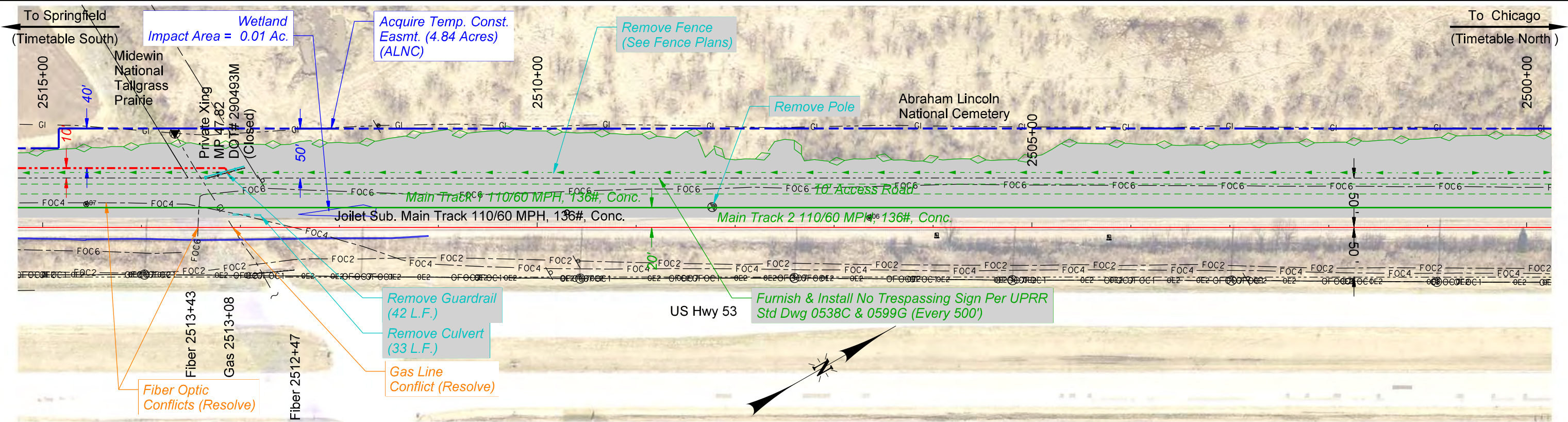
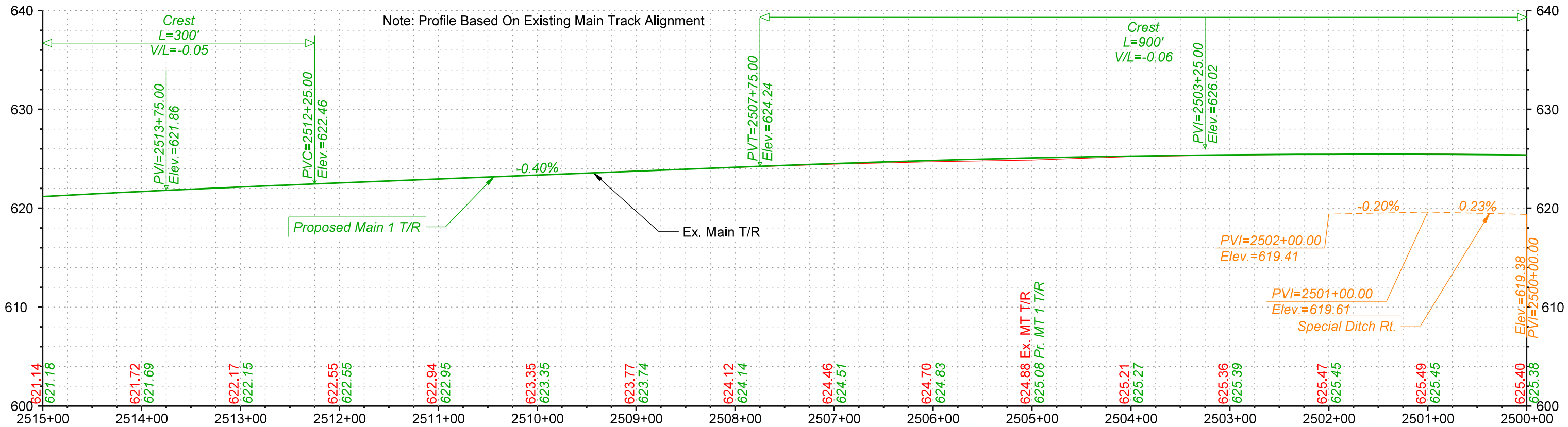


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SHEET NUMBER: P026 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles

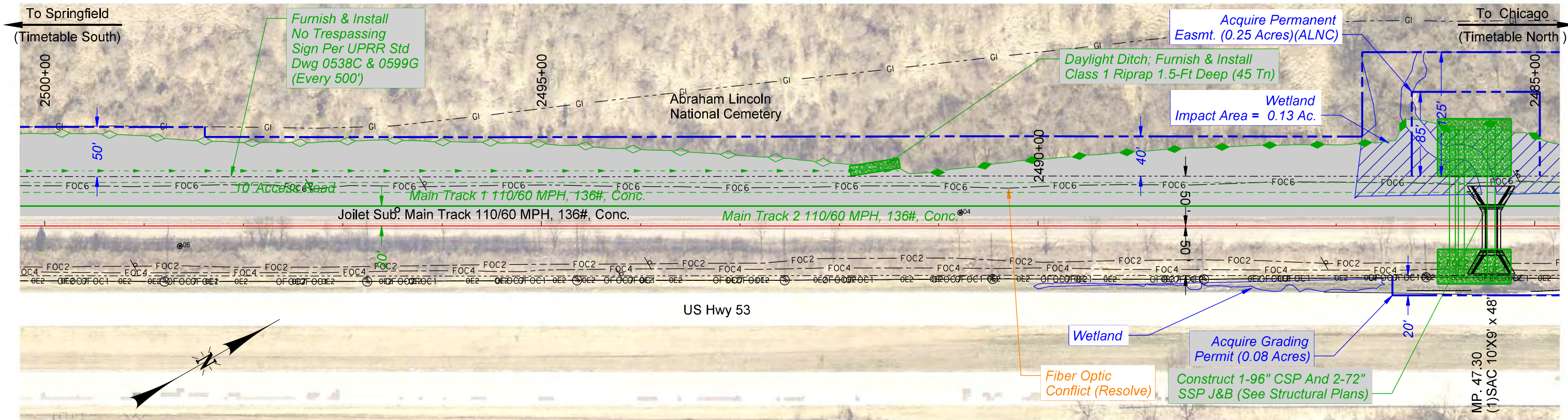
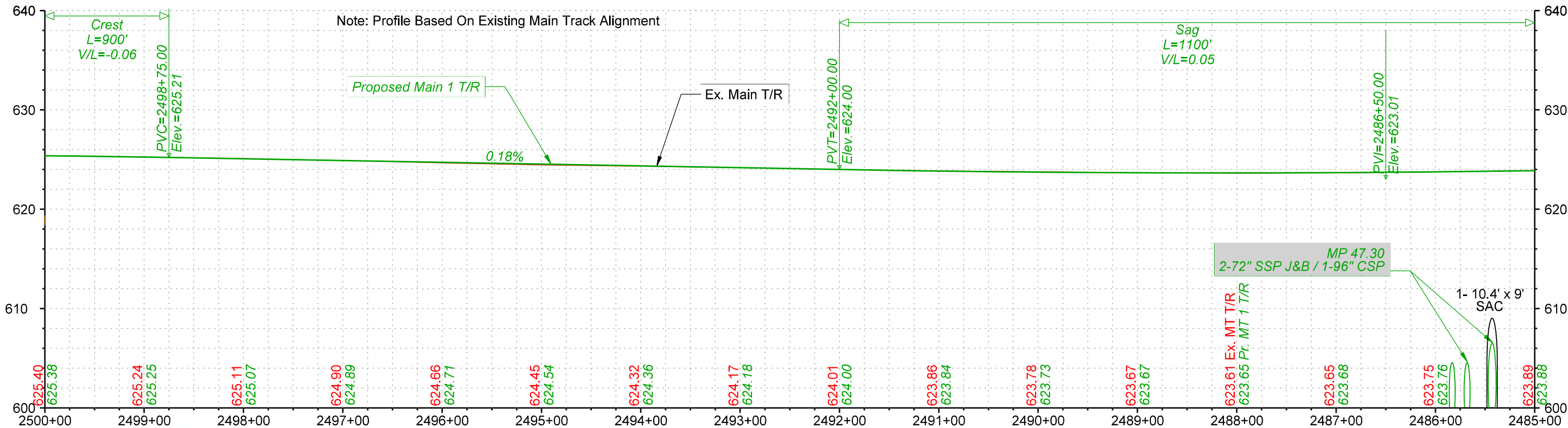


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DRAWN BY: BND
CHECKED BY: ADK
DATE: 09/19/2024
SHEET NUMBER: P028 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track
SHEET TITLE: Track Plan & Profiles

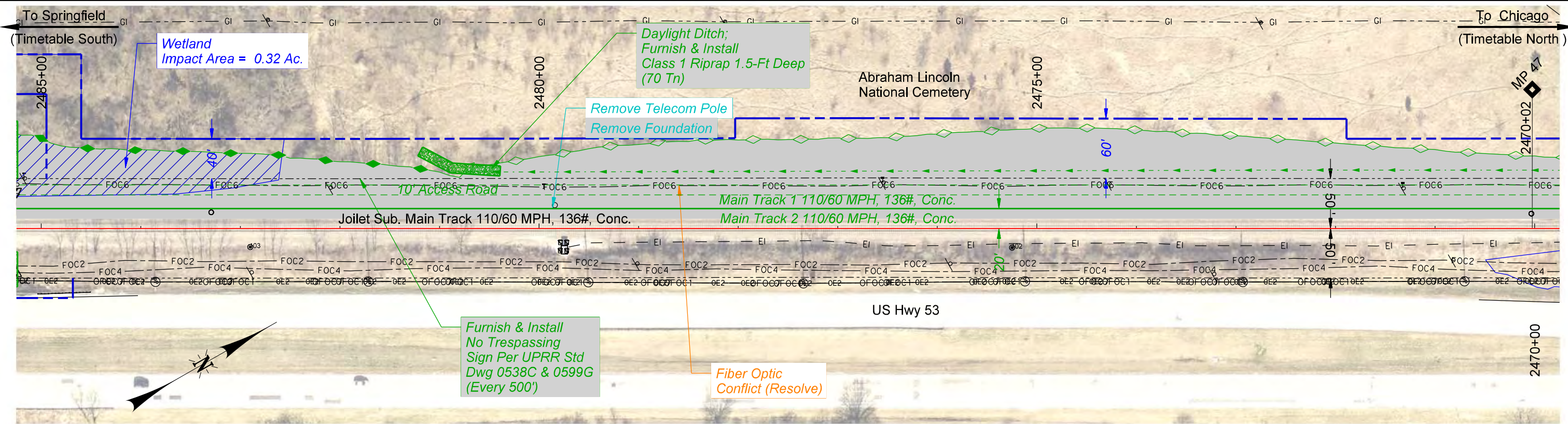
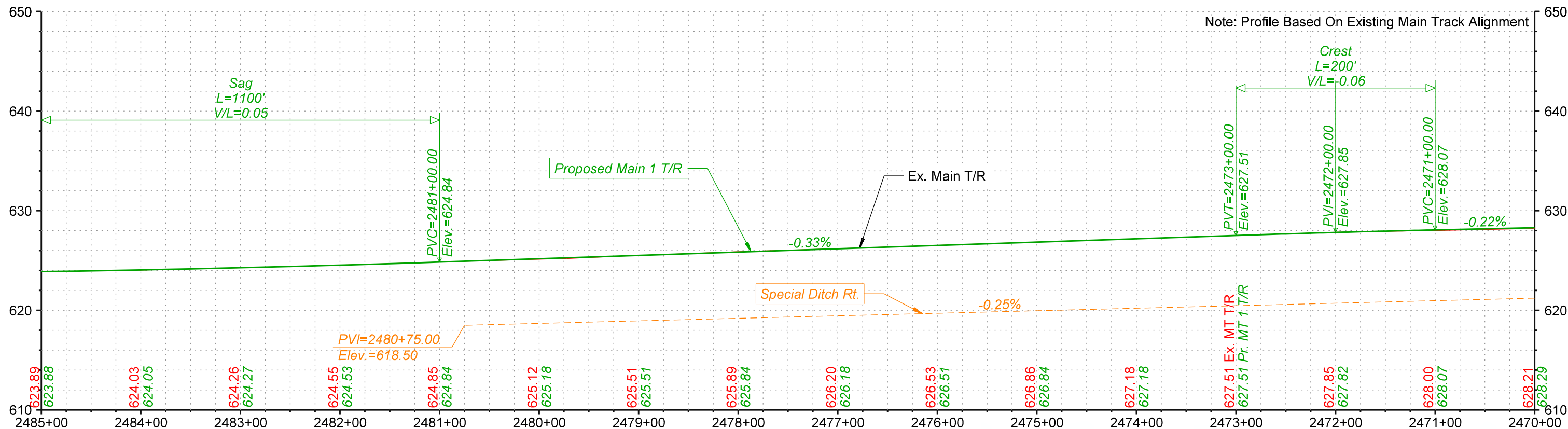


PRELIMINARY

NOT FOR CONSTRUCTION 08/28/2024



DRAWN BY: BND	UNION PACIFIC RAILROAD
CHECKED BY: ADK	
DATE: 09/19/2024	LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track
SHEET NUMBER P029 of P040	SHEET TITLE: Track Plan & Profiles

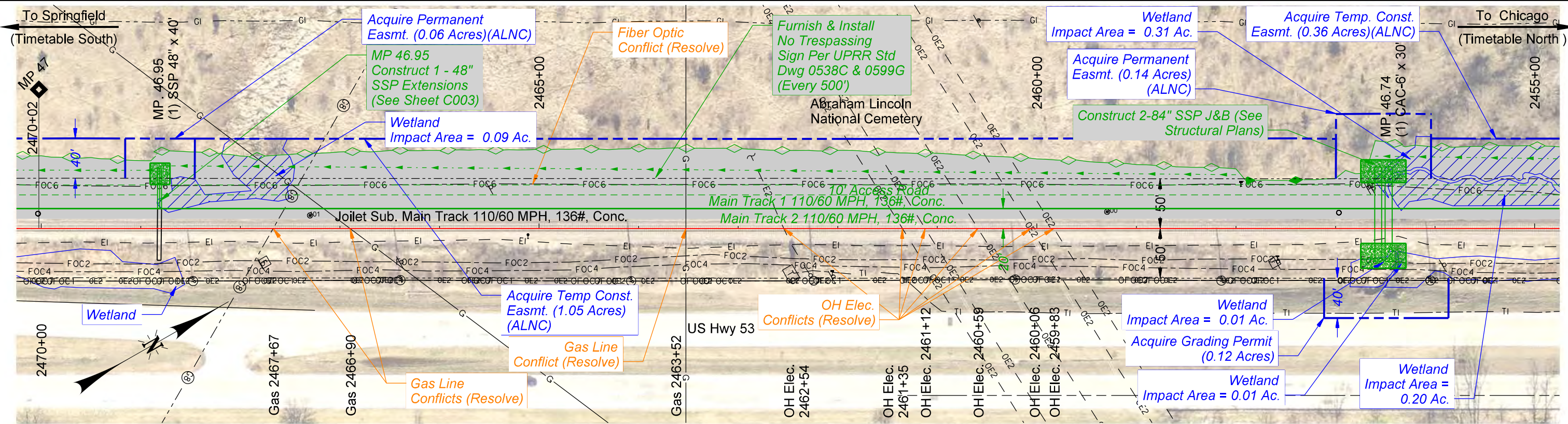
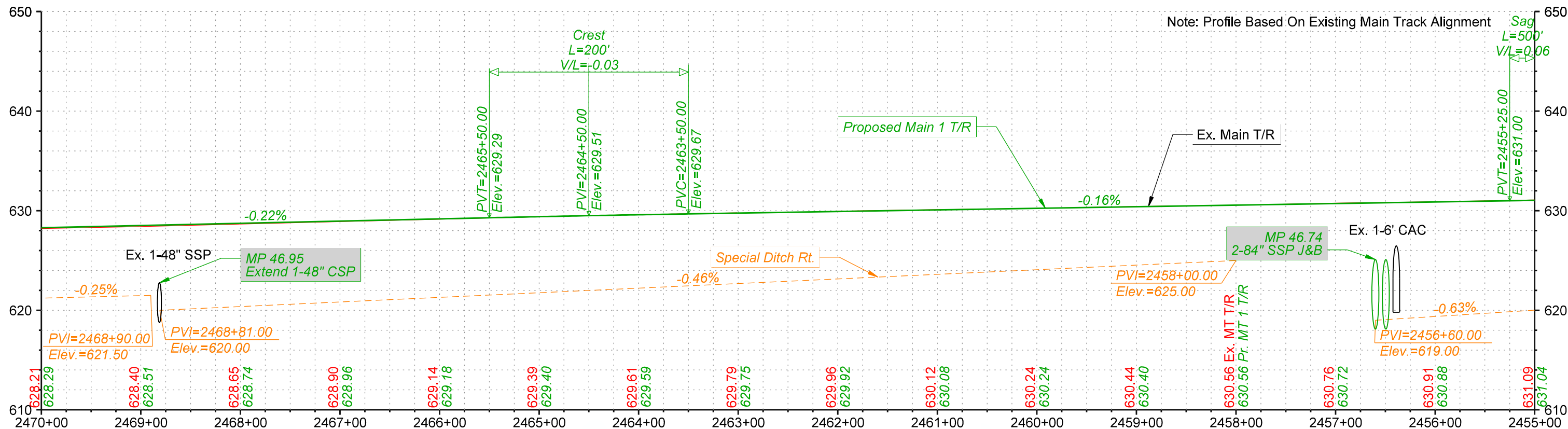


PRELIMINARY

NOT FOR CONSTRUCTION 08/28/2024



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CHECKED BY: ADK	
DATE: 09/19/2024	
SHEET NUMBER P030 of P040	
SHEET TITLE: Track Plan & Profiles	



PRELIMINARY

NOT FOR CONSTRUCTION 08/28/2024

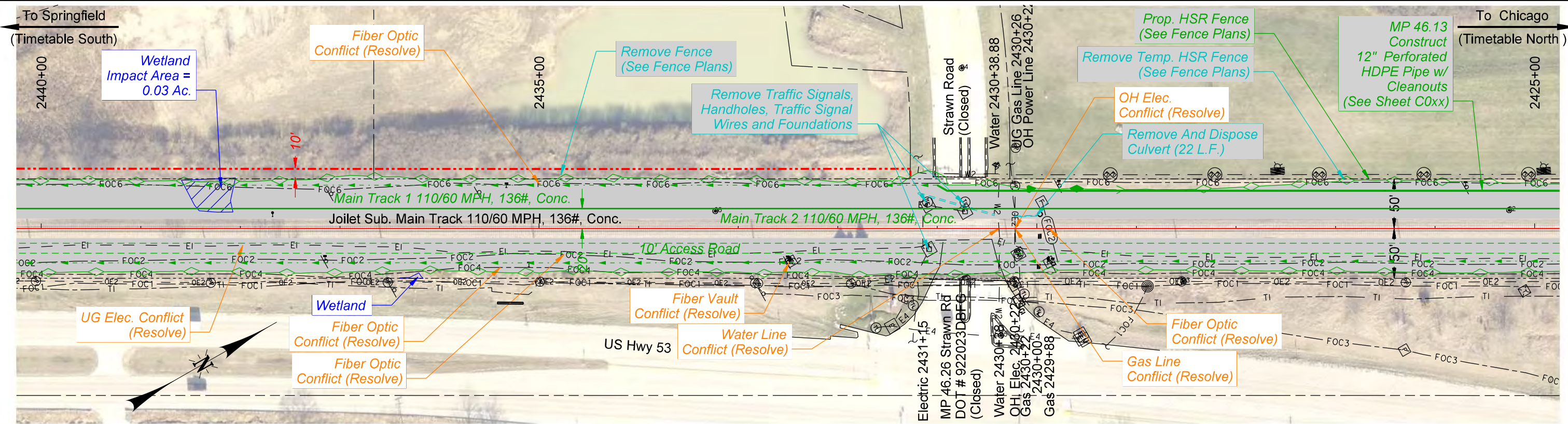
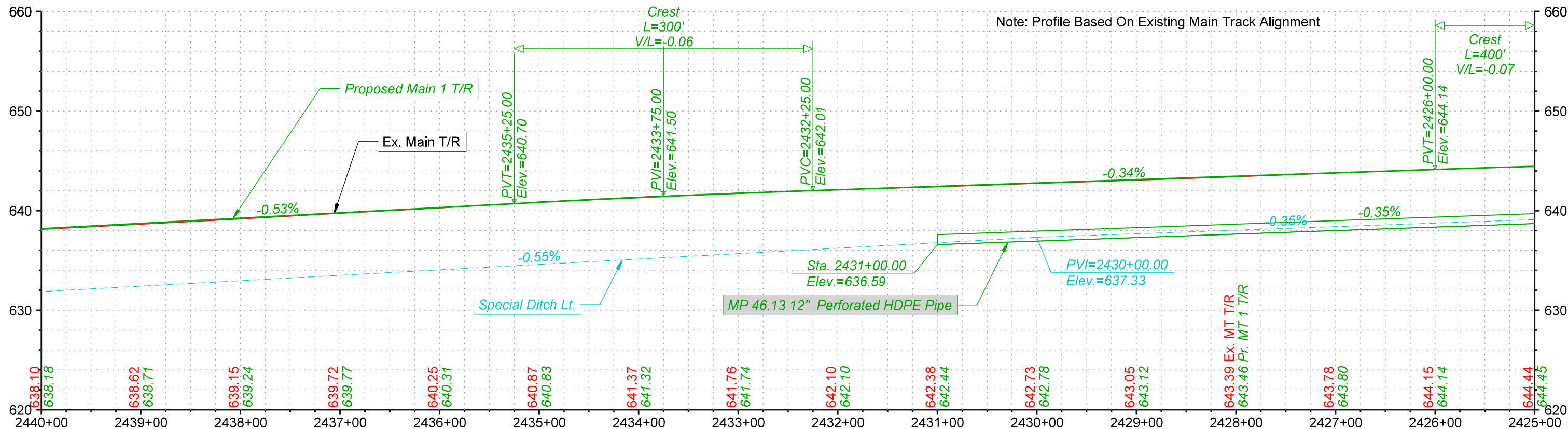


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CHECKED BY: ADK
DATE: 09/19/2024
SHEET NUMBER
P031 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joilet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE:
Track Plan & Profiles



PRELIMINARY

NOT FOR CONSTRUCTION 08/28/2024

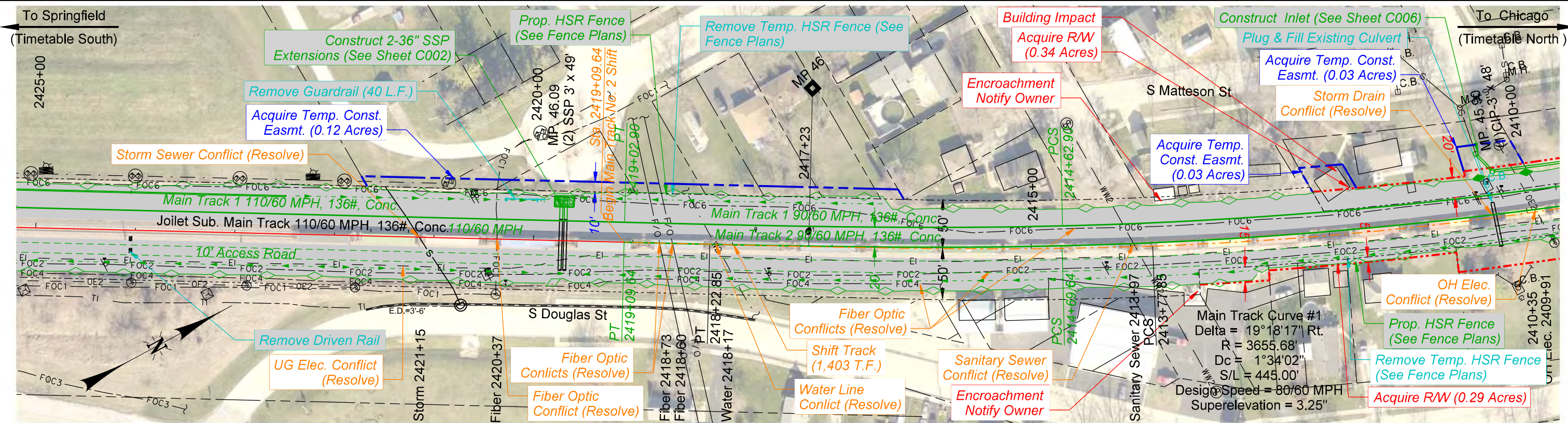
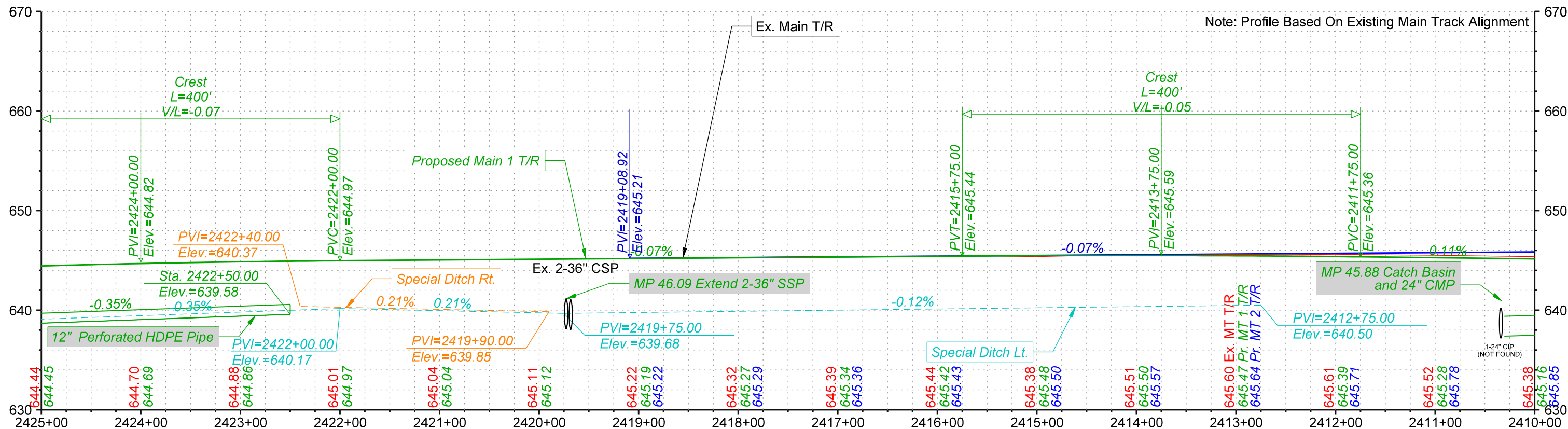


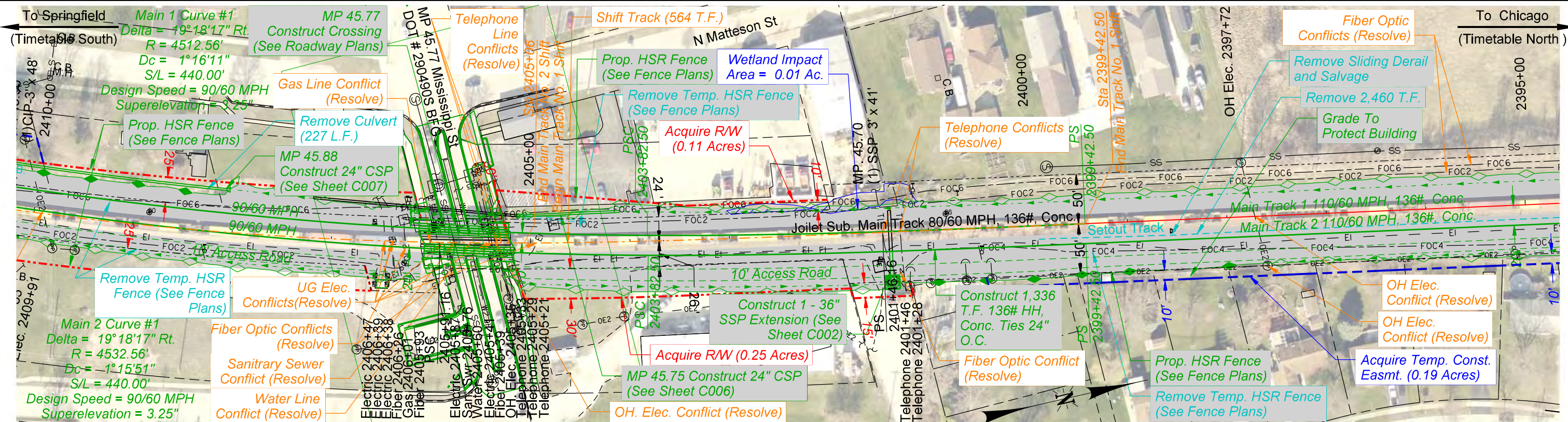
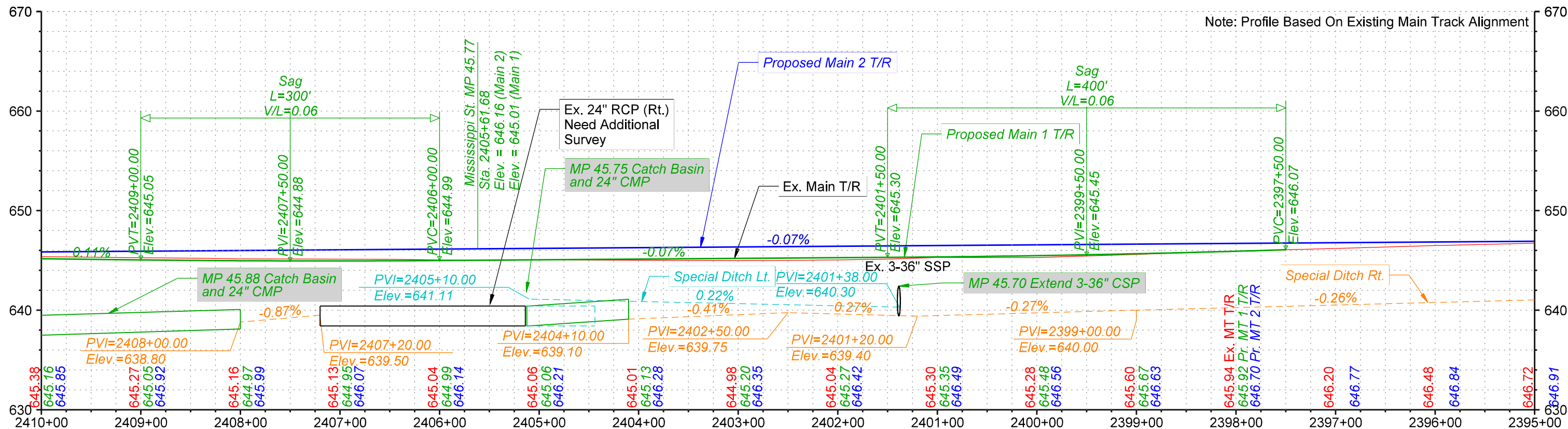
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CHECKED BY: ADK
DATE: 09/19/2024
SHEET NUMBER
P033 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE:
Track Plan & Profiles





PRELIMINARY

NOT FOR CONSTRUCTION 08/28/2024



HDR ENGINEERING INC.
1917 S. 6TH ST.
OMAHA, NE 68106



HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102



UNION PACIFIC

DRAWN BY: BND

CHECKED BY: ADK

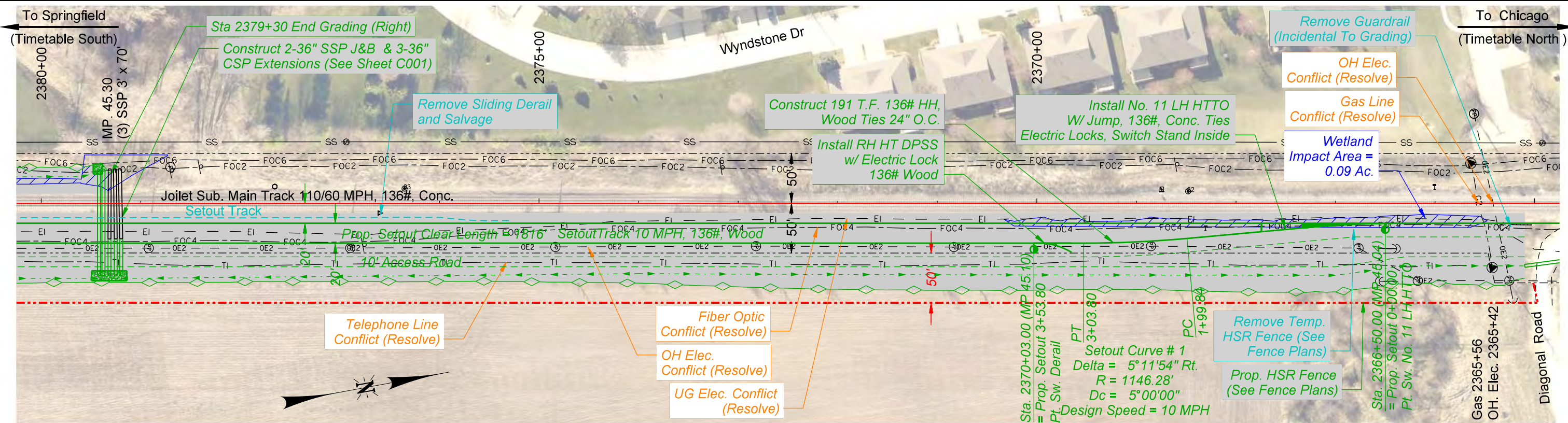
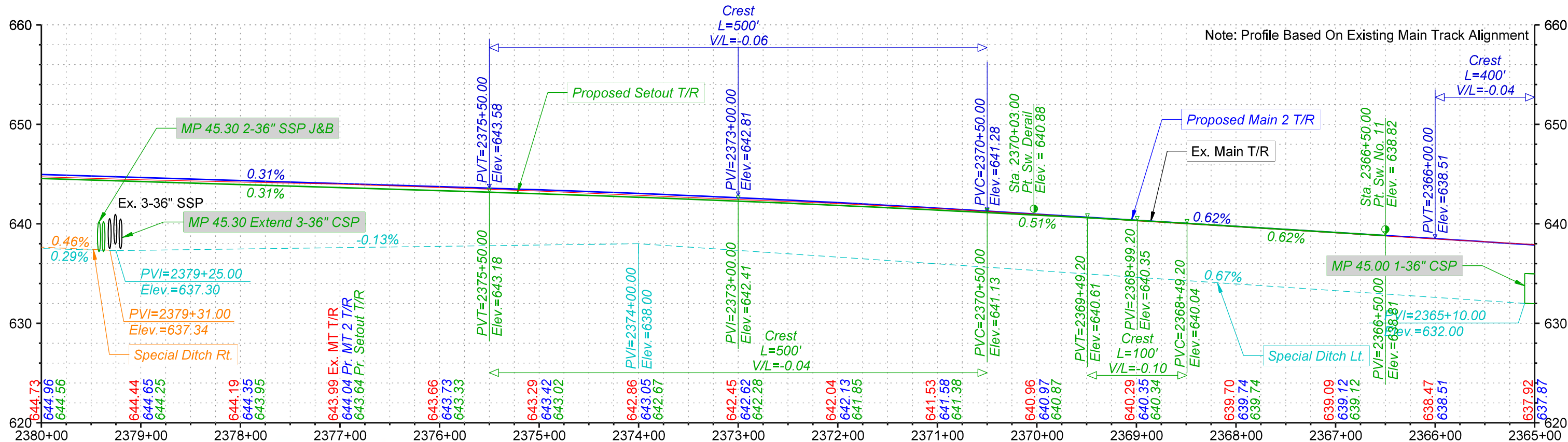
DATE: 09/19/2024

SHEET NUMBER: P035 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles



PRELIMINARY

NOT FOR CONSTRUCTION 08/28/2024

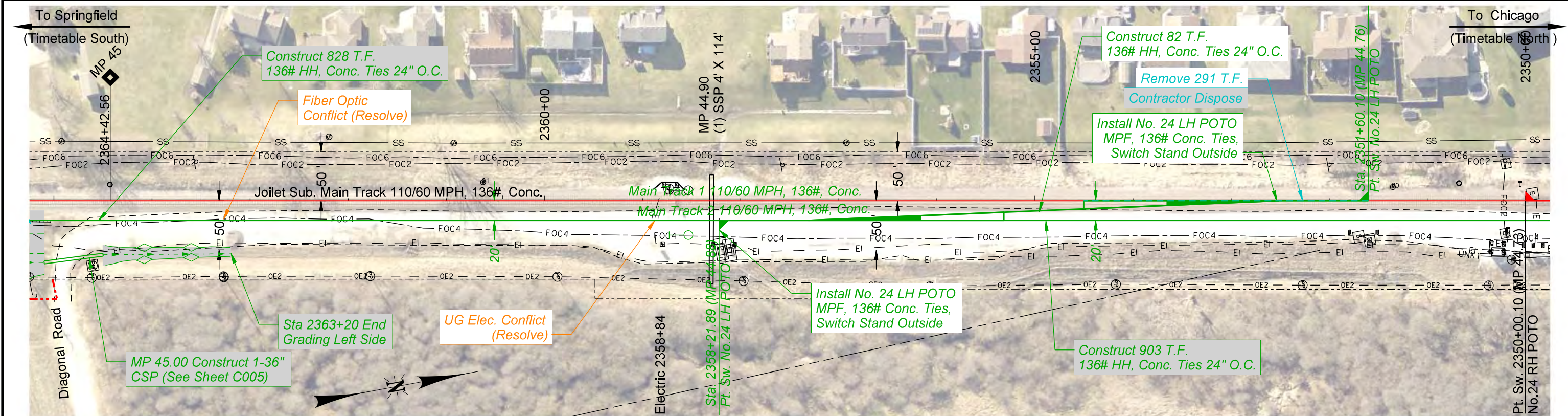
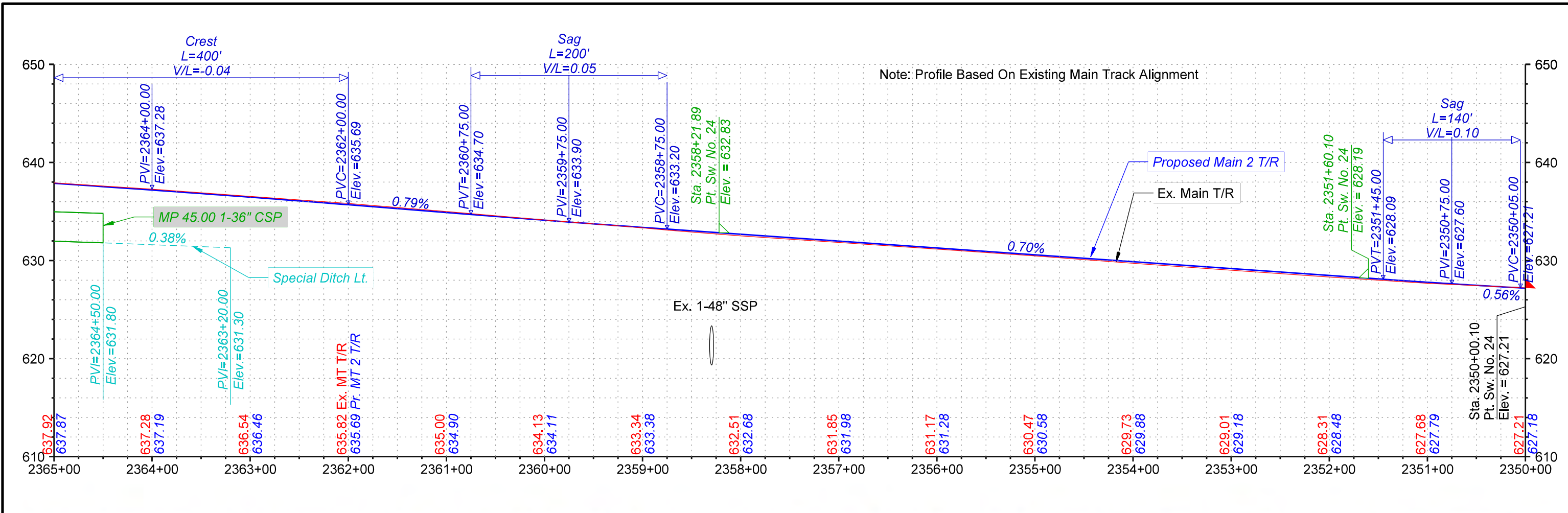


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CHECKED BY: ADK
DATE: 09/19/2024
SHEET NUMBER: P037 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track Plan & Profiles



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PRELIMINARY
NOT FOR CONSTRUCTION 08/28/2024

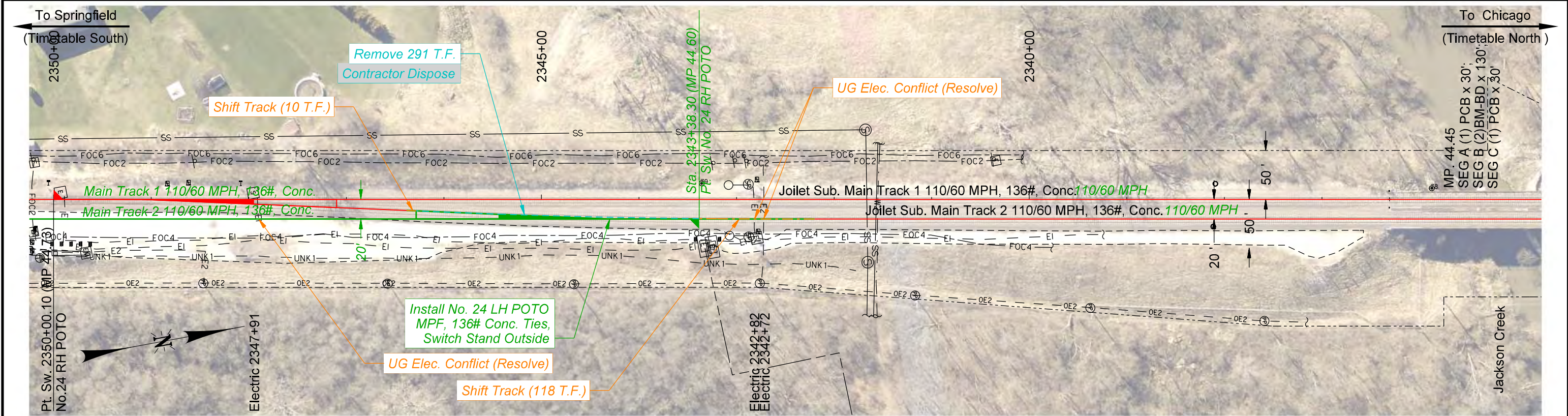
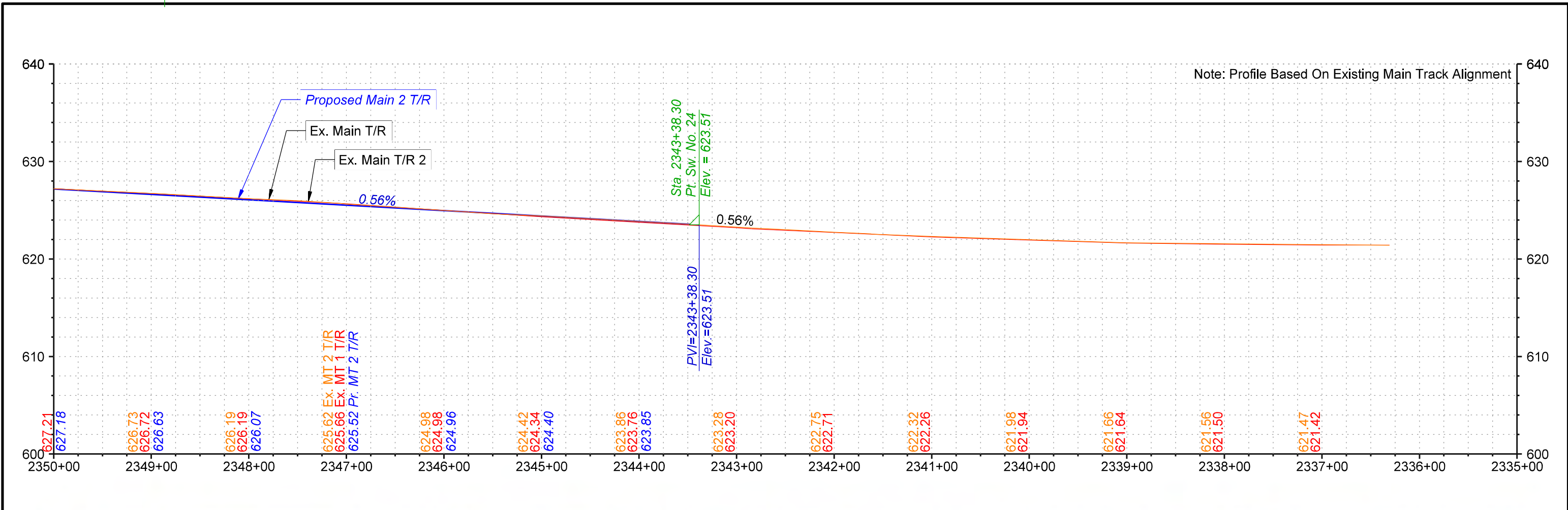
HDR
HDR ENGINEERING INC.
1917 S. 6TH ST.
OMAHA, NE 68106

HNTB
HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102

UNION PACIFIC
DRAWN BY: BND
CHECKED BY: ADK
DATE: 09/19/2024
SHEET NUMBER: P038 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track
SHEET TITLE: Track Plan & Profiles

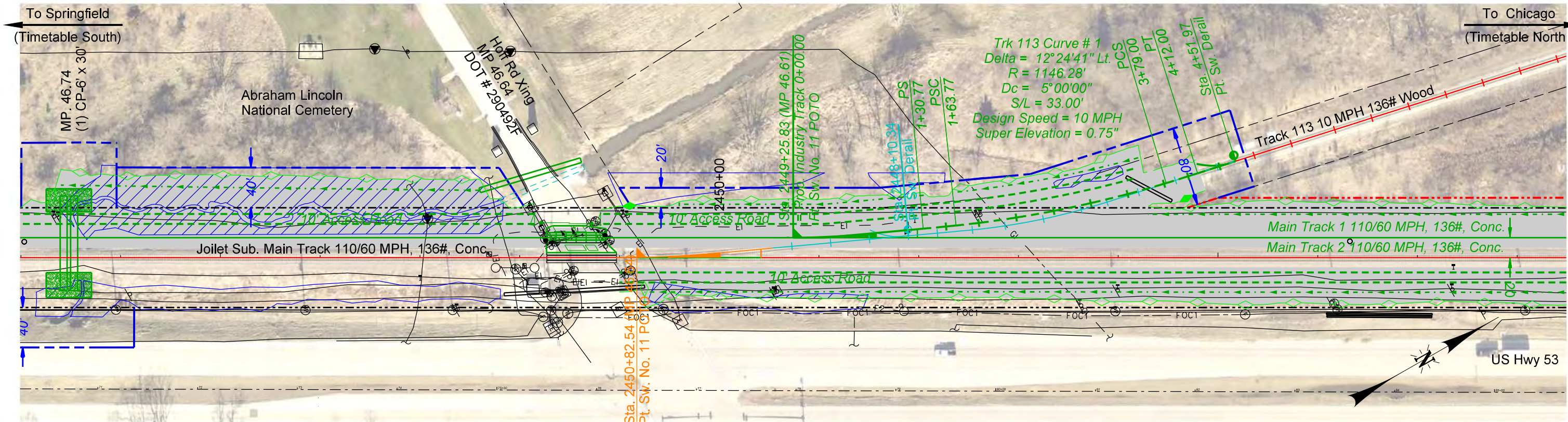
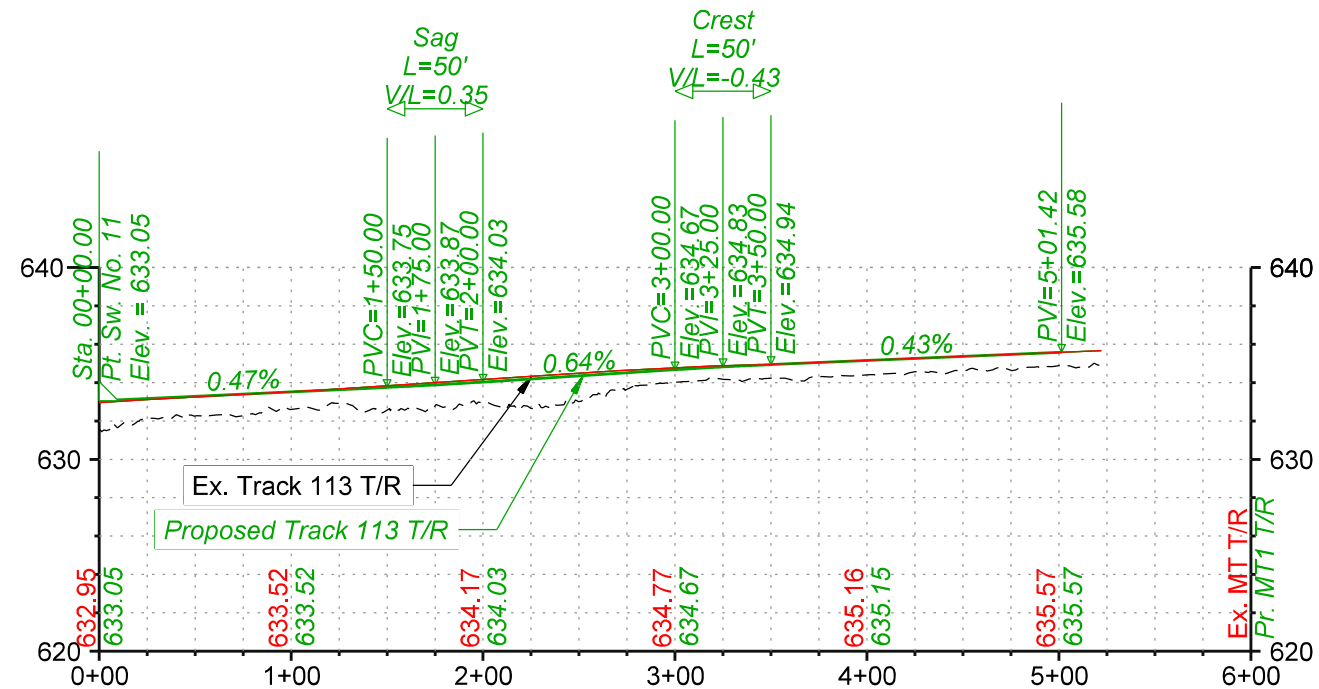
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PRELIMINARY
NOT FOR CONSTRUCTION 08/28/2024



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CHECKED BY: ADK	
DATE: 09/19/2024	
SHEET NUMBER P039 of P040	
SHEET TITLE: Track Plan & Profiles	



PRELIMINARY
NOT FOR CONSTRUCTION 08/28/2024



DRAWN BY: BND
CHECKED BY: ADK
DATE: 09/19/2024
SHEET NUMBER: P040 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joilet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track

SHEET TITLE: Track 113 Plan & Profile

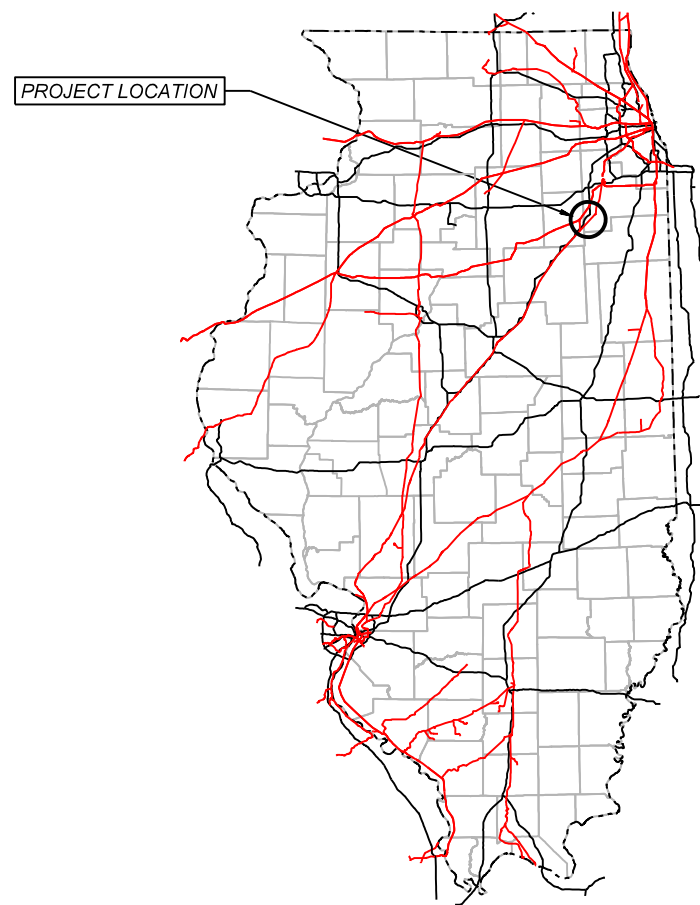


Appendix A: Maps and Designs

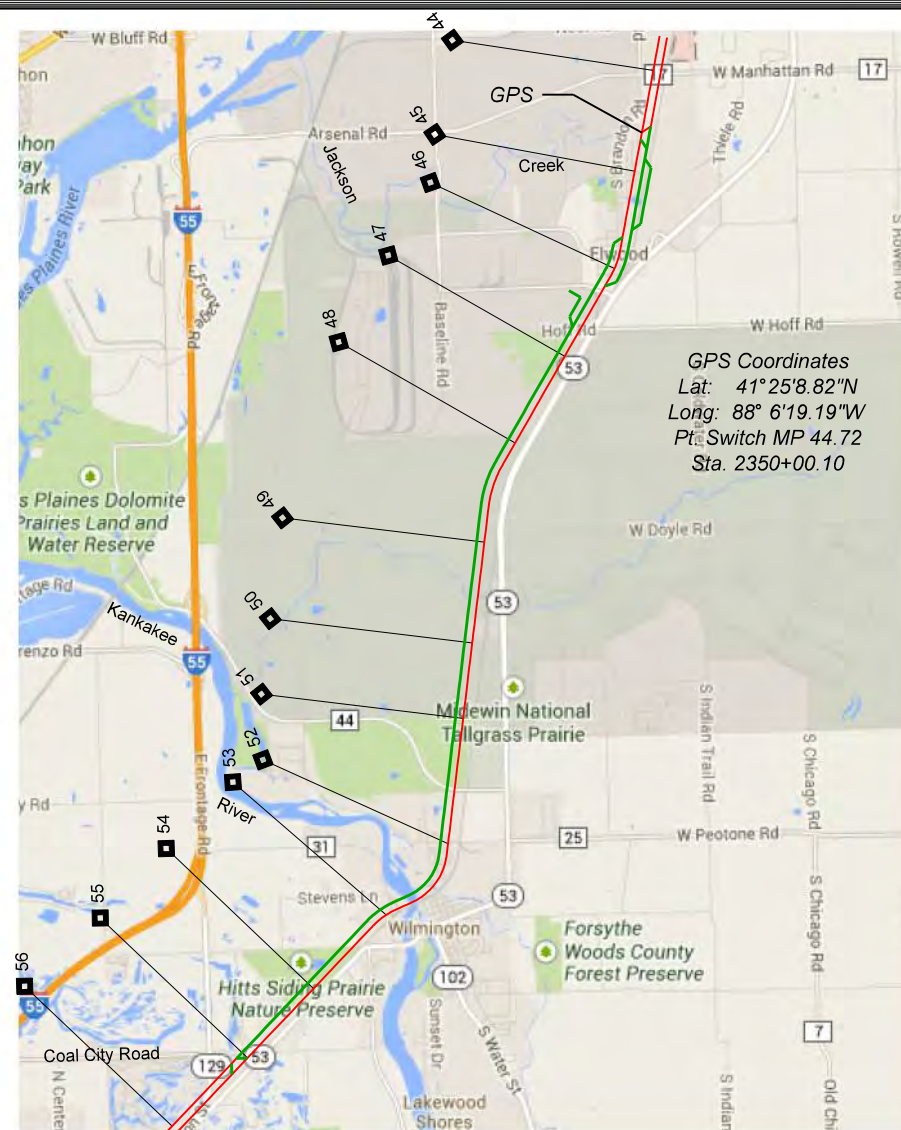
Build Alternative 2A Design



ENGINEERING DESIGN



State of Illinois



Project Location Map

SUPPORT REGISTERED
PROFESSIONAL ENGINEERS

TRACK & CIVIL
PAGES: P001 - P040, T001 - T005, CD01 - CD03,
C001 - C006, X001 - X208

ROADWAY
PAGES: PSR001-PSRXXX, R001-RXXX

SUPPORT LICENSED
STRUCTURAL ENGINEERS

HDR STRUCTURES
PAGES: TBD

HNTB STRUCTURES
PAGES: TBD

CONTRACT RESPONSIBILITY
REGISTERED PROFESSIONAL ENGINEER

GENERAL
PAGES: G001 - G006

ELWOOD, IL TO BRAIDWOOD, IL
WILL COUNTY
JOLIET SUBDIVISION
MP 44.60 TO MP 55.50
TIER 8 - 2ND MAIN TRACK
30% PRELIMINARY
NOT FOR CONSTRUCTION

ALTERNATIVE 2A

LAST REVISED
NOV. 22, 2024

PROJECT INDEX

PROJECT DESIGN

DESCRIPTION

G001	COVER SHEET WITH VICINITY MAP
G002	PROJECT INDEX & REVISIONS
G003	GENERAL NOTES & PROJECT CONTACTS
G004	ABBREVIATIONS & LEGEND
G005	UTILITY ABBREVIATIONS & LEGEND
G006	CONTROL POINTS & GEOMETRY
G007	PLAN OVERVIEW MAP
P001 to P040	TRACK PLAN & PROFILE
T001 to T005	TRACK TYPICAL SECTIONS
CD01	UP & DOWNSTREAM CULVERT GRADING DETAILS (NOT INCLUDED WITH THIS SUBMITTAL)
CD02	SIGNAL MOUND CONSTRUCTION (NOT INCLUDED WITH THIS SUBMITTAL)
CD03	ACCESS ROAD TURNAROUND PLAN (NOT INCLUDED WITH THIS SUBMITTAL)
C001	CULVERT CROSS SECTIONS - MP 45.30
C002	CULVERT CROSS SECTIONS - MP 45.70 AND MP 46.09
C003	CULVERT CROSS SECTIONS - MP 46.95 AND MP 49.20
C004	CULVERT CROSS SECTIONS - MP 53.51 AND MP 54.20
C005	CULVERT PLAN AND PROFILE - MP 45.00 (NOT INCLUDED WITH THIS SUBMITTAL)
C006	STORM SEWER PLAN AND PROFILE - MP 45.75 (NOT INCLUDED WITH THIS SUBMITTAL)
C007	STORM SEWER PLAN AND PROFILE - MP 45.88 (NOT INCLUDED WITH THIS SUBMITTAL)
C008	CULVERT PLAN AND PROFILE - MP 47.95 (NOT INCLUDED WITH THIS SUBMITTAL)
X001 to X208	TRACK CROSS SECTIONS AND END AREA REPORT

PROJECT INDEX (CONTINUED)

ROADWAY DESIGN

DESCRIPTION

PSR001	to	PSR00X	ROADWAY DETAILS
R001	to	RXXX	ROADWAY PLANS (TBD)

STRUCTURES DESIGN

DESCRIPTION

CE XXXXXX	MP 46.74 2 - 84" DIA. SSP REPLACING EXISTING 1- 6.65' x 6.65' x 31' CAC
CE XXXXXX	MP 47.30 1 - 96" DIA. CSP AND 2- 72" DIA. SSP REPLACING EXISTING 1- 10.4' x 9' x 51' SAC
CE XXXXXX	MP 48.15 RETAINING WALL
CE XXXXXX	MP 48.80 1 - 72" DIA. SSP REPLACING EXISTING 1-60" DIA. CIP
CE XXXXXX	MP 48.90 1 - 78" DIA. CSP EXTENDING 1-78" DIA. CMP CULVERT
CE XXXXXX	MP 49.52 3 SPAN (2 TRACK AND 1 ACCESS ROAD BRIDGE)
CE XXXXXX	MP 51.57 1- 60" DIA. CSP EXTENDING 1-60" DIA. CSP & 1- 60" SSP EXTENDING 1- 60" DIA. SSP

PROJECT REVISIONS

[illegible]

PRELIMINARY

NOT FOR CONSTRUCTION 11/22/2024



DRAWN BY: BND	
CHECKED BY: ADK	
DATE: 11/22/2024	LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
SHEET NUMBER G002 of G007	SHEET TITLE: Project Index & Revisions

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GENERAL NOTES

1. Contractors shall notify Service Alert, (800) 642-2444 and UPRR Fiber Optics Hotline (800) 336-9193, 48 hours prior to any excavation. The USA Authorization Numbers shall be kept at the job site.
2. No work whatsoever shall be commenced without first notifying the UPRR Engineer.
3. The Contractor shall comply with all Federal, State, County, and City Laws and Ordinances and Regulations of the Department of Industrial Relations, OSHA, NPDES and Industrial Accident Commission related to the safety and character of the work, equipment and labor personnel.
4. Contractor shall be responsible for coordinating with all Utility agencies.
5. Contractor shall protect in place (by any means necessary) all existing utilities to remain unless otherwise specified herein, Contractor shall be responsible for the complete repair at its expense, for any damage to existing utilities, structures, or other site features, as a result of its work.
6. Prior to placing curbs, pavements, base, subbase, track, etc., all underground utilities shall be installed, backfill completed, and the UPRR Engineer notified by each of the utility companies having facilities within the work area, that the utility installation has satisfactorily passed acceptance tests.
7. All existing underground utilities, that are not to be re-used shall be abandoned in place. All existing pipelines to be abandoned in place shall be cement slurry filled and capped at least 3'-0" below top of proposed subgrade.
8. Contractor shall verify locations and elevations of existing utilities whether known or unknown prior to beginning construction.
9. Any underground structures such as cesspools, cisterns, mining shafts, tunnels, septic tanks, wells, and pipelines not located prior to construction shall be brought to the attention of the UPRR Engineer for determination of appropriate action such as removal or treatment in a manner judged suitable to the Engineer.
10. Contractor shall coordinate location of all proposed utilities with UPRR to assure accuracy of utility connections and compliance with local codes.
11. Any existing conditions found to be a variance with these drawings must be immediately reported to the UPRR Engineer.
12. Contractor shall maintain and clean, to the satisfaction of the UPRR Engineer, all access and service roads used during construction.
13. Contractor shall perform all construction in such a manner as to protect adjacent existing buildings, and other site elements which are to remain in service.
14. Contractor shall provide As-built Drawings for all improvements.

DESIGN CRITERIA

1. UPRR Standard Plans and Trackworks
2. Illinois Department of Transportation Bureau of Local Roads & Streets Manual
3. Illinois Department of Transportation Highway Standards
4. Illinois Department of Transportation MUTCD
5. Illinois Department of Transportation Standard Specifications for Roadway and Bridge Construction

SURVEY NOTES

1. Railroad stationing for project profiles and alignments is based on stations established for chord definition spiraled curves at the centerline of the existing UPRR Main Line unless otherwise noted.
2. The Contractor is responsible for the preservation of all survey control monuments. In the event monuments are damaged or destroyed by the Contractor, the Engineer will replace the monument solely at the Contractor's expense.

	DATUM
HORIZONTAL	NAD83(NSRS2007) ILLINOIS EAST ZONE 1201 Survey Feet, Grid
VERTICAL	NAVD88

15. No field changes will be permitted without direct written authorization from the UPRR Engineer.
16. Contractor shall coordinate work which affects adjacent property owners. Any questions or agreements between adjacent property owners and Contractor shall be made in writing. A copy of such agreement shall be provided to the UPRR Engineer.
17. Right-of-way lines shown on the plans were taken from existing UPRR valuation map and are approximate.
18. Match lines for sheets are based on the existing Main Line stationing unless otherwise specified.
19. Track laying, ballasting, and installation of road crossing panels will be done by UPRR unless otherwise stated.
20. Where existing culverts are to be extended, the Contractor shall expose existing drainage structures and field verify size and type before ordering materials.
21. The Contractor is responsible for the removal of all pavement markings that will be in conflict with the proposed work.
22. Contractor shall comply with all Illinois and Will County standard specifications for construction of public improvements requirements.
23. Contractor shall maintain at least one access to all affected businesses. If necessary, multiphase construction shall be utilized.
24. All station and offset labels are based off existing mainline track alignment unless otherwise noted.
25. All wooden sign posts must be drilled to meet IDOT requirements to break-away at ground line.

DATA SOURCES

1. Aerial: Alpha Land Surveying, Dec. 2022.
2. Topographic Survey: American Surveyors, Oct. 2022.
3. Utilities: SUE TBD

TRAFFIC NOTES

1. All barricades, warning signs, lights, devices, etc. for the guidance of vehicle traffic and pedestrians must conform to the installation shown in the Manual on Uniform Traffic Control Devices (MUTCD), current edition and IDOT Standard Plans. See IDOT Quality Standard for Work Zone Traffic Control Devices.
2. Contractor shall make twice daily inspections of barricades and flashing lights to ensure proper placement and functioning of warning devices.
3. Grade crossings closed to traffic during construction shall be barricaded in accordance with the MUTCD and IDOT Standard Plans.
4. At all grade crossings, all grade crossing warning signs (crossbuck) shall temporarily be relocated during construction and reset after the grade crossings construction is completed to a point adjacent to the roadway and 15 feet from the centerline of the near track as stated in the MUTCD except where automatic grade crossing warning signals/gates exist. All automatic warning devices are the responsibility of UPRR. At no time shall a crossing be left open without proper warning signs in place.
5. Contractor shall submit traffic control plans to the IDOT, County and Municipal Traffic Departments for approval at least 2 weeks prior to each road closure. Plans shall be 11" x 17" engineered drawings, sealed by a Illinois professional engineer. Contractor shall utilize the IDOT Traffic Control Authorization Request. The IDOT District Offices will process all Traffic Control Permits.
6. The Contractor is responsible for the prompt replacement and/or repair of all traffic control devices and appurtenances damaged or disturbed due to construction.

PROJECT CONTACTS

CONTACT

TBD
John Jerome
Ken Freimuth
Adam Studts
Paul Pino
Stan Dullnskl
TBD
Benjamin Dey

PHONE NUMBER

TBD
(402) 591-2727
(402) 544-5167
(402) 544-3541
(402) 544-3582
(402) 544-0353
TBD
(402) 399-1338

UPRR

Construction Field Manager
HSR Program Manager Field Manager
Project Design Sr. Project Designer
Structures Design Sr. Manager
Information Technology - Fiber
Real Estate - Utilities
Real Estate - Acquisitions
HDR Project Manager

CONTACT

PHONE NUMBER

FIBER

CONTACT

PHONE NUMBER

UTILITIES

CONTACT

PHONE NUMBER

FEDERAL AND LOCAL GOVERNMENT AGENCY

PHONE NUMBER

(800) 336-9193
(888) 258-0808
(888) 877-7267

GENERAL

UPRR CALL BEFORE YOU DIG
CALL BEFORE YOU DIG (NATIONAL DIRECTORY)
UPRR Response Management Communications Center (RMCC)

PRELIMINARY
NOT FOR CONSTRUCTION 11/22/2024



HDR ENGINEERING INC.
1917 S. 67TH ST.
OMAHA, NE 68106



HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST, SUITE 247-N
OMAHA, NE 68102



DRAWN BY:
BND

CHECKED BY:
ADK

DATE:
11/22/2024

SHEET NUMBER
G003 of G007

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE:
General Notes & Project Contacts

ABBREVIATIONS

MISCELLANEOUS

Ac.	Acres
Ave.	Avenue
Blvd.	Boulevard
Bldg.	Building
BNSF	BNSF Railway
C.Y.	Cubic Yards
Conc.	Concrete
°	Degree (s)
Dia.	Diameter
Dr.	Drive
Dwg.	Drawing
E	East
Elev.	Elevation
Exist.	Existing
'	Foot, Feet or Minute (s)
F.S.	Finished Surface
Horiz.	Horizontal
"	Inch, Inches or Second (s)
Inv.	Invert
Lt.	Left
L	Length
L.F.	Lineal Feet
Max.	Maximum
Min.	Minimum
N	North
NTS	Not to Scale
No.	Number
OH	Overhead
Prop.	Proposed
RR	Railroad
Rwy	Railway
R/W	Right of Way
Rt.	Right
S	South
S.F.	Square Feet
Sta.	Station
Std.	Standard
St.	Street
Twp.	Township
Typ.	Typical
UG	Underground
UPRR	Union Pacific Railroad
V	Velocity
Wt.	Weight
W	West
X-ing	Crossing

SIGNAL

ABS	Automatic Block Signal
ATC	Automatic Train Control
CTC	Centralized Traffic Control
DED	Dragging Equipment Detector
DTC	Direct Traffic Control
ELTO	Electric Lock Turnout
HBD	Hot Box Detector
HTTO	Hand Throw Turnout
HWD	High Wide Detector
POTO	Power Operated Turnout
TWC	Track Warrant Control
WILD	Wheel Impact Load Dectector

STRUCTURES

Bldg.	Building
Br.	Bridge
CB	Catch Basin
CPT	Concrete Pile Trestle - Ballast Deck
CIP	Cast Iron Pipe
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
CSP	Corrugated Steel Pipe
Culv.	Culvert
DI	Drop Inlet
DPGBD	Deck Plate Girder - Ballast Deck
DPGOD	Deck Plate Girder - Open Deck
EBW	East Backwall
F.L.	Flowline
F.F.	Finished Floor
GIP	Galvanized Iron Pipe
Hdwl	Headwall
NBW	North Backwall
PSCT	Prestressed Concrete Trestle
RCA	Reinforced Concrete Arch
RCB	Reinforced Concrete Box
RCP	Reinforced Concrete Pipe
SBW	South Backwall
SSP	Smooth Steel Pipe
SPTBD	Steel Pile Trestle - Ballast Deck
SPTOD	Steel Pile Trestle - Open Deck
SPP	Structural Plate Pipe
TPGBD	Through Plate Girder - Ballast Deck
TPGOD	Through Plate Girder - Open Deck
TPTBD	Timber Pile Trestle - Ballast Deck
TPTOD	Timber Pile Trestle - Open Deck
TTBD	Through Truss - Ballast Deck
TTOD	Through Truss - Open Deck
TWB	Treated Wood Box
VCP	Vitrified Clay Pipe
Viad.	Viaduct
WBW	West Backwall
WIP	Wrought Iron Pipe

TRACK

ATR	Above Top of Rail
Align.	Alignment
BBR	Below Base of Rail
Cntrs.	Centers
CWR	Continuous Welded Rail
DSPD	Double Switch Point Derail
EOT	End of Track
HH	Head Hardened
Jtd.	Jointed Rail
LH	Left Hand
ML	Main Line
MM	Mile Marker
MP	Mile Post
NSC	Not Sufficient Clearance
OTM	Other Track Material
PCC	Point of Compound Curve
PC	Point of Curve
PCS	Point of Curve to Spiral
POC	Point on Curve
PF	1/2" Point of Frog
PI	Point of Intersection
PITO	Point of Intersection of Turnout
PS	Point of Spiral
PSC	Point of Spiral to Curve
POS	Point on Spiral
PT	Point of Tangent
POT	Point on Tangent
Pt. Sw.	Point of Switch
PVC	Point of Vertical Curve
PVI	Point of Vertical Intersection
PVT	Point of Vertical Tangent
RH	Right Hand
SH	Second Hand
SSPD	Single Switch Point Derail
TC	Track Centers
T.F.	Track Feet
Trk.	Track
T/R	Top of Rail
UXO	Universal Cross-Over
X-Over	Cross-Over

UTILITIES

AIR	Compressed Air
F/O	Fiber Optic Cable
G	Gas Pipeline
OP	Overhead Power Line
SS	Sanitary Sewer
UGS	Underground Signal Line
SS	Steam Line
S	Storm Sewer
T	Telephone
UGE	Underground Electric
W	Water Main
UD	Under Drain
V.	Valve
M.H.	Manhole
C.B.	Catch Basin
F.H.	Fire Hydrant
Junction Box	Junction Box
Electric Meter	Electric Meter
Gas Meter	Gas Meter
Water Meter	Water Meter
M.W.	Monitoring Well
PUMP	Pump

TRACK

Existing Mainline	Existing Mainline
Existing Siding or Spur	Existing Siding or Spur
Proposed	Proposed
Remove	Remove
Shift	Shift
Relay	Relay
Surface & Line	Surface & Line
Future	Future
Foreign Railroad or Industry	Foreign Railroad or Industry
In Buildings or Under Structures	In Buildings or Under Structures
Turnout	Turnout
Power Turnout	Power Turnout
Bumping Post	Bumping Post
Earthen Bumper	Earthen Bumper
Inert Retarder	Inert Retarder
Dowty Retarder	Dowty Retarder
Hayes Derail	Hayes Derail
Double Switch Point Derail	Double Switch Point Derail

LIGHTING

Light Pole	Light Pole
Light Tower	Light Tower

ROAD CROSSING WARNING DEVICES

Crossbuck Sign	Crossbuck Sign
Flashing Light Warning Device	Flashing Light Warning Device
Flashing Light Warning Device with Gate	Flashing Light Warning Device with Gate
Cantilever Flashing Light Warning Device	Cantilever Flashing Light Warning Device
Cantilever Flashing Light Signal with Gate	Cantilever Flashing Light Signal with Gate

SIGNAL

Absolute Signal	Absolute Signal
Signal Bridge	Signal Bridge
Cantilever Signal	Cantilever Signal
ACS or CTC Signal	ACS or CTC Signal
Dwarf Signal	Dwarf Signal
Begin CTC	Begin CTC
Microwave Tower	Microwave Tower
AEI	AEI
Battery Box	Battery Box
Dragging Equipment Detector	Dragging Equipment Detector
Generator	Generator
Hot Box Detector	Hot Box Detector

STRUCTURES

Culvert	Culvert
Culvert with Headwalls	Culvert with Headwalls
Double Culvert	Double Culvert
Railroad Bridge	Railroad Bridge
Highway Overpass	Highway Overpass
Highway Underpass	Highway Underpass
Tunnel	Tunnel
Building	Building
Flag Pole	Flag Pole

PROPERTY

Section Line	Section Line
Center Section Line	Center Section Line
Parcel or Easement Line	Parcel or Easement Line
Right of Way	Right of Way
Former Right of Way	Former Right of Way
Right of Way to be Acquired	Right of Way to be Acquired
Foreign Right of Way	Foreign Right of Way

SIGNS

Stop	Stop
Yard Limit	Yard Limit
1 Mile to Yard Limit	1 Mile to Yard Limit
Whistle Post	Whistle Post
Flanger	Flanger
Station	Station
Reduce Speed	Reduce Speed
Resume Speed	Resume Speed
General Purpose	General Purpose

FENCES

Barbed Wire	Barbed Wire
Chain Link	Chain Link
Snow / Sand	Snow / Sand
Cattle Guard	Cattle Guard

ROADS

Paved Road	Paved Road
Unimproved Road	Unimproved Road
Interstate Highway	Interstate Highway
Federal Highway	Federal Highway
State Highway	State Highway
County Highway	County Highway

PERMITTING

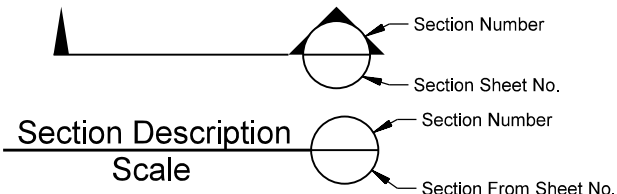
Temporary Workspace - Permitted	Temporary Workspace - Permitted
Sensitive Resources - Impacted / Permitted	Sensitive Resources - Impacted / Permitted
Sensitive Resources - Do Not Impact	Sensitive Resources - Do Not Impact

CONSTRUCTION

Note (Work by Contractor)	Note (Work by Contractor)
Note (Work by Others)	Note (Work by Others)
Cut Lines	Cut Lines
Fill Lines	Fill Lines
Grading Limits	Grading Limits

OTHER

Embankment	Embankment
Flow Line	Flow Line
Milepost	Milepost
Milemarker	Milemarker
Control Point	Control Point
Revision Number	Revision Number
Revision Cloud	Revision Cloud
Soil Boring	Soil Boring



PRELIMINARY
NOT FOR CONSTRUCTION 11/22/2024

HDR ENGINEERING INC.
1917 S. 67TH ST.
OMAHA, NE 68106

HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102

UNION PACIFIC RAILROAD

DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: G004 of G007

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Abbreviations & Legend

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CONTROL POINTS				
Point	Northing	Easting	Elevation	Description
1	1705495.605	1037470.336	566.653	5/8 RB
2	1721156.413	1041368.995	644.886	5/8 RB
3	1692385.246	1035856.322	547.293	5/8 RB
75	1733968.338	1047315.974	624.854	IRON ROD
76	1733176.995	1047174.012	620.492	IRON ROD
77	1732666.217	1047077.940	618.952	IRON ROD
78	1732393.120	1047031.009	617.581	CUT X
79	1731658.086	1046890.205	620.578	IRON ROD
80	1730871.441	1046747.767	624.212	IRON ROD
81	1729960.394	1046574.626	631.048	IRON ROD
82	1729186.670	1046438.746	637.671	IRON ROD
83	1728413.152	1046293.137	641.356	IRON ROD
84	1727650.000	1046151.566	640.654	IRON ROD
85	1726886.533	1046012.561	644.192	IRON ROD
86	1726007.107	1045847.944	640.817	IRON ROD
87	1725511.953	1045854.149	645.627	770
88	1725490.296	1045635.546	643.828	770
89	1725482.791	1045641.635	643.371	IRON ROD
90	1725227.851	1045667.635	642.731	IRON ROD
91	1724471.200	1045314.726	643.134	IRON ROD
92	1723776.452	1044914.619	644.516	IRON ROD
93	1723456.618	1044814.285	640.947	IRON ROD
94	1723369.829	1044517.722	642.056	770
95	1723270.714	1044770.598	643.010	770
96	1723083.769	1044519.679	638.159	IRON ROD
97	1722379.756	1044120.154	634.371	IRON ROD
98	1721528.644	1043608.630	630.466	IRON ROD
99	1721482.962	1043713.677	633.175	MAG
100	1720820.753	1043226.459	627.454	IRON ROD
101	1720123.838	1042832.255	625.118	IRON ROD
102	1719417.861	1042465.807	624.155	IRON ROD
103	1718753.827	1042085.429	618.680	IRON ROD
104	1718085.388	1041666.490	620.345	IRON ROD
105	1717386.603	1041305.683	624.240	IRON ROD
106	1716706.860	1040882.185	622.255	IRON ROD
107	1716026.518	1040477.477	620.189	IRON ROD
108	1715326.868	1040092.757	615.053	IRON ROD
109	1714671.246	1039714.970	613.269	IRON ROD
110	1713968.077	1039365.619	609.824	IRON ROD
111	1713207.951	1039107.496	605.275	IRON ROD
112	1712452.942	1038933.867	607.243	IRON ROD-OTHERS
113	1712277.253	1038983.587	602.270	IRON ROD
114	1711490.218	1038878.342	595.800	IRON ROD
115	1710694.011	1038780.691	591.037	IRON ROD
116	1709899.022	1038685.983	588.268	IRON ROD
117	1709113.539	1038595.871	582.333	IRON ROD
118	1708324.935	1038469.201	580.419	IRON ROD
119	1707536.233	1038378.365	578.650	770
120	1706744.155	1038307.941	571.472	IRON ROD
121	1706512.164	1038262.343	574.887	PK
122	1705989.788	1038164.124	568.539	IRON ROD
123	1705512.292	1038094.106	567.663	IRON ROD
124	1704713.028	1038063.319	564.517	IRON ROD
125	1703931.488	1037932.043	562.837	IRON ROD
126	1703133.571	1037873.969	560.516	IRON ROD
127	1702330.422	1037773.721	560.921	IRON ROD
128	1701528.827	1037678.204	560.943	IRON ROD
129	1701050.677	1037605.140	563.629	MAG
130	1700742.000	1037552.056	561.115	IRON ROD
131	1700057.301	1037485.512	563.194	MAG
132	1699941.773	1037459.348	561.277	IRON ROD
133	1699161.507	1037364.498	559.541	IRON ROD
134	1698361.064	1037268.042	558.339	IRON ROD
135	1697559.536	1037151.905	561.511	MAG
136	1697557.673	1037239.805	561.499	MAG
137	1696775.579	1037077.137	556.900	IRON ROD

CONTROL POINTS				
Point	Northing	Easting	Elevation	Description
138	1695982.189	1036984.010	557.817	IRON ROD
139	1695188.191	1036887.340	558.691	IRON ROD
140	1694863.108	1036903.577	560.096	MAG
141	1694861.161	1036804.673	559.533	MAG
142	1694078.327	1036769.555	555.774	IRON ROD
143	1693376.645	1036544.412	553.148	IRON ROD
144	1692693.464	1036128.418	549.781	IRON ROD
145	1692559.185	1035947.030	546.506	MAG
146	1692220.013	1035455.504	543.309	IRON ROD
147	1692139.882	1035545.047	547.130	IRON ROD
148	1691942.314	1035260.264	547.059	IRON ROD
149	1691719.443	1034757.754	549.830	IRON ROD
150	1691496.919	1034194.937	549.557	IRON ROD
151	1691087.363	1033389.653	552.017	MAG
152	1690969.566	1033402.280	554.115	CUT X
153	1690457.268	1032823.819	556.944	IRON ROD
154	1690457.257	1032823.795	556.979	IRON ROD
155	1689824.489	1032189.390	563.550	IRON ROD
156	1689448.390	1031949.594	567.507	MAG
157	1689447.037	1031747.944	566.996	IRON ROD
158	1688810.300	1031261.636	565.949	IRON ROD
159	1688106.958	1030587.137	567.783	IRON ROD
160	1687662.384	1030170.016	566.629	IRON ROD
161	1687133.189	1029664.222	564.915	IRON ROD
162	1686577.363	1029094.031	563.462	IRON ROD
163	1685999.818	1028542.557	563.251	IRON ROD
164	1685397.682	1028019.567	564.498	IRON ROD
165	1684801.874	1027456.332	565.926	IRON ROD
166	1684242.331	1026930.107	562.389	IRON ROD
167	1683963.227	1026545.892	562.372	IRON ROD
168	1683471.303	1026187.478	559.354	IRON ROD
169	1683046.840	1025783.940	559.567	IRON ROD
170	1682603.733	1025366.547	562.629	IRON ROD
171	1682160.551	1024940.567	565.545	IRON ROD
172	1681766.679	1024568.838	563.189	IRON ROD
173	1681394.575	1024210.092	561.919	IRON ROD
174	1680967.047	1023805.383	558.545	IRON ROD
175	1680562.415	1023388.008	558.013	IRON ROD

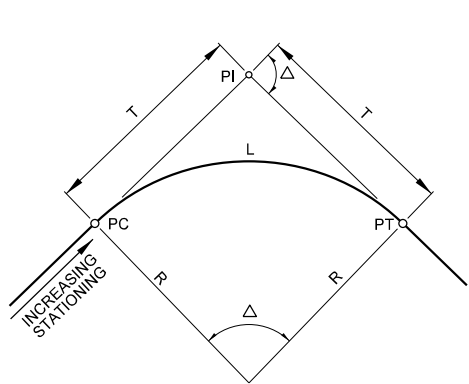


FIGURE B
SIMPLE CIRCULAR CURVE

R = RADIUS OF CIRCULAR CURVE

Δ = CENTRAL ANGLE OF CIRCULAR CURVE

$$T = R \tan \frac{\Delta}{2}$$

$$L = \frac{\Delta}{D_c} \times 100$$

$$D_c = 2 \sin^{-1} (50/R) = \text{DEGREE OF CURVE (CHORD DEFINITION)}$$

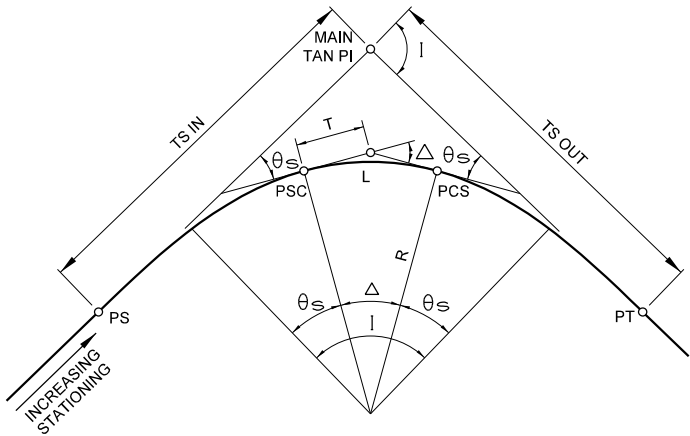


FIGURE A
CIRCULAR CURVES
WITH SPIRAL TRANSITION

| - TOTAL INTERSECTION ANGLE

$$\theta_s = \text{SPIRAL ANGLE} = \frac{A L^2}{2}$$

$$\Delta = \text{CENTRAL ANGLE OF CIRCULAR CURVE} = | - 2 \theta_s$$

Dc = DEGREE OF CURVE

$$A = \text{RATE OF CHANGE OF DEGREE OF CURVE PER 100-ft. OF LENGTH} = \frac{D_c}{L}$$

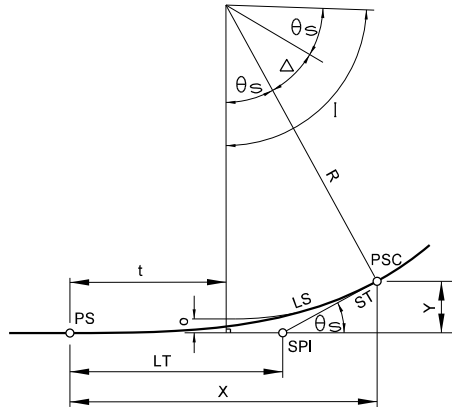


FIGURE C
SPIRAL TRANSITION CURVE

SPIRAL TRANSITION CURVE DATA:
THE SPIRAL USED IS DEFINED BY THE TALBOT SPIRAL.

LS = LENGTH OF SPIRAL (TS TO PSC)

$$\theta_s = \frac{A L^2}{2}$$

$$X = 100 L_1 - 0.000762 A^2 L_1^5$$

$$Y = 0.291 A L_1^3 - 0.00000158 A^3 L_1^7$$

$$o = 0.0727 A L_1^3$$

$$t = 50 L_1 - 0.000127 A^2 L_1^5$$

$$ST = \frac{Y}{\sin \theta_s}$$

$$LT = X - \frac{Y}{\tan \theta_s}$$

$$D_c = 2 \sin^{-1} (50/R) = \text{DEGREE OF CURVE (CHORD DEFINITION)}$$

L₁ - TOTAL NO. OF STATIONS IN SPIRAL

SPI - SPIRAL POINT OF INTERSECTION

NOTE: Dc, θ_s, Δ, AND | ARE IN DEGREES.
ALL OTHERS DIMENSIONS ARE FEET.

R - RADIUS OF CIRCULAR CURVE

T - TANGENT LENGTH OF CIRCULAR CURVE = $R \tan \frac{\Delta}{2}$

L - LENGTH OF CIRCULAR CURVE = $\frac{\Delta}{D_c} \times 100$

PS - TANGENT TO SPIRAL

PSC - SPIRAL TO CURVE

PCS - CURVE TO SPIRAL

PT - SPIRAL TO TANGENT

MAIN TAN PI - POINT OF INTERSECTION OF MAIN TANGENTS

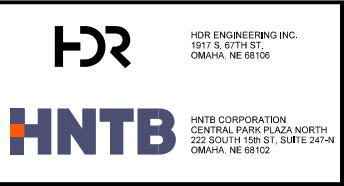
(TS IN) - TANGENT LENGTH OF COMPLETE CURVE = $(R+o) \tan \frac{|}{2} + t$

(WHEN SPIRALS OF EQUAL LENGTH
ARE USED ON BOTH SIDES OF
CIRCULAR CURVE, SEE FIGURE C.
FOR o AND t).

PRELIMINARY

NOT FOR CONSTRUCTION

11/22/2024



DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: G006 of G007

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
SHEET TITLE: Control Points & Geometry

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LEGEND OF UTILITY TYPES

Communications

AT&T	QL "B"	---	T1	---
COMCAST		---	C1	---
AT&T		---	FOC1	---
UPRR		---	FOC2	---
COMCAST		---	FOC3	---
LUMEN		---	FOC4	---
CITY OF ELWOOD		---	FOC5	---
SPRINT		---	FOC6	---
ADESTA		---	FOC7	---
COMED		---	FOC8	---

	QL "D"			
AT&T		---	F/O	---
UPRR		---	FOC2	---
LUMEN		---	FOC4	---
SPRINT		---	FOC6	---
SPRINT		---	FOC8	---

Gas

NICOR	QL "B"	---	G1	---
WOLVERINE		---	G2	---
BUCKEYE		---	G3	---
BP		---	G4	---
EMBRIDGE		---	G5	---
WILL COUNTY		---	G6	---
MIDWESTERN		---	G7	---

	QL "D"			
NICOR		---	G	---
WOLVERINE		---	G	---
EXXON MOBIL		---	G	---
KINDER MORGAN		---	G	---

Sewers / Drains

UPRR	QL "B"	-	WW1	---
CITY OF ELWOOD		-	WW2	---
CITY OF WILMINGTON		-	WW3	---
UPRR		---	S	---
CITY OF ELWOOD		---	S	---
CITY OF WILMINGTON		---	SD3	---
DOT		---	SD4	---

	QL "D"			
CITY OF ELWOOD		---	SS	---
CITY OF WILMINGTON		---	SS	---
UPRR		---	S	---
CITY OF ELWOOD		---	S	---

Water

UPRR	QL "B"	-	W1	---
CITY OF ELWOOD		-	W2	---
CITY OF WILMINGTON		-	W3	---
PRIVATE		-	W4	---
	QL "D"			
CITY OF ELWOOD		---	W	---
CITY OF WILMINGTON		---	W	---
PRIVATE		---	W	---

Electric / Power

UPRR	QL "B"	---	E1	---
COMED		---	E2	---
CITY OF ELWOOD		---	E3	---
IDOT		---	E4	---
CITY OF WILMINGTON		---	E5	---

UNKNOWN

	QL "B"	---	UNK 1	---
--	--------	-----	-------	-----

Overhead Utilities

AT&T	Communications	---	OT1	---
AT&T		---	OF0C1	---
COMCAST		---	OF0C3	---
ADESTA		---	OF0C7	---
COMED		---	OF0C8	---
COMCAST		---	OC3	---
	Electrical			
COMED		---	OE2	---

LEGEND OF UTILITY SYMBOLS

TEST HOLE	
END CAP	
UTILITY CONTINUATION	
SURVEY CONTROL	
EOI "END OF INFORMATION"	
TELEPHONE CABINET/JUNCTION BOX	
TELEPHONE PEDESTAL	
TELEPHONE HANDHOLE (VAULT)	
TELEPHONE MANHOLE	
TELEPHONE POLE	
TELEPHONE POLE W/RISER	
FIBER HANDHOLE	
FIBER MANHOLE	
FIBER PEDESTAL	
FIBER MARKER	
WATER VAULT	
WATER VALVE	
WATER METER	
WATER MANHOLE	
FIRE HYDRANT	
IRRIGATION VALVE	
WATER FAUCET	
MONITORING WELL	
IRRIGATION WELL	
GAS VENT PIPE (GAS RISER)	
GAS VALVE	
GAS METER	
GAS TEST STATION	
GAS HANDHOLE	
GAS MARKER SIGN	
GAS MANHOLE	
WASTE WATER MANHOLE	
WASTE WATER CLEANOUT	
STORM SEWER MANHOLE	
STORM SEWER INLET	
CATV HANDHOLE	
CATV CABINET	
CATV PEDESTAL	
LIGHT POLE	
ELECTRIC TRACK SWITCH BOX	
ELECTRIC POLE (POWER)	
ELECTRIC POLE W/RISER	
TRANSMISSION POLE	
ELECTRIC HANDHOLE/PULL BOX	
ELECTRIC MANHOLE	
SIGNAL POLE	
SIGNAL HANDHOLE/BOX	
TRAFFIC LIGHT	
ELECTRIC METER	
ELECTRIC PEDESTAL	
GUY WIRE/GUY ANCHOR	
RAILROAD CROSSING SIGNAL ARM	
RAILROAD SIGNAL SWITCH	
SIGNAL CONTROL PANEL	
ELECTRIC SERVICE POLE (POWER)	
ANTENNA POLE	

NOTE: AN "O" PRECEDING THE UTILITY TYPE
INDICATES AN OVERHEAD UTILITY
(I.E. "OE1" = OVERHEAD ELECTRIC)

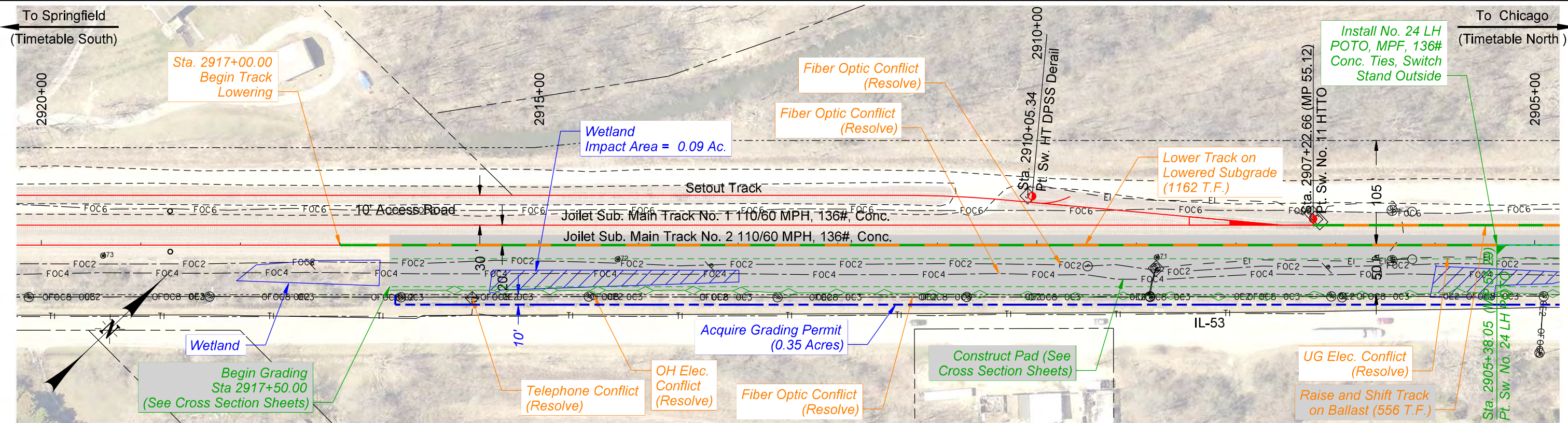
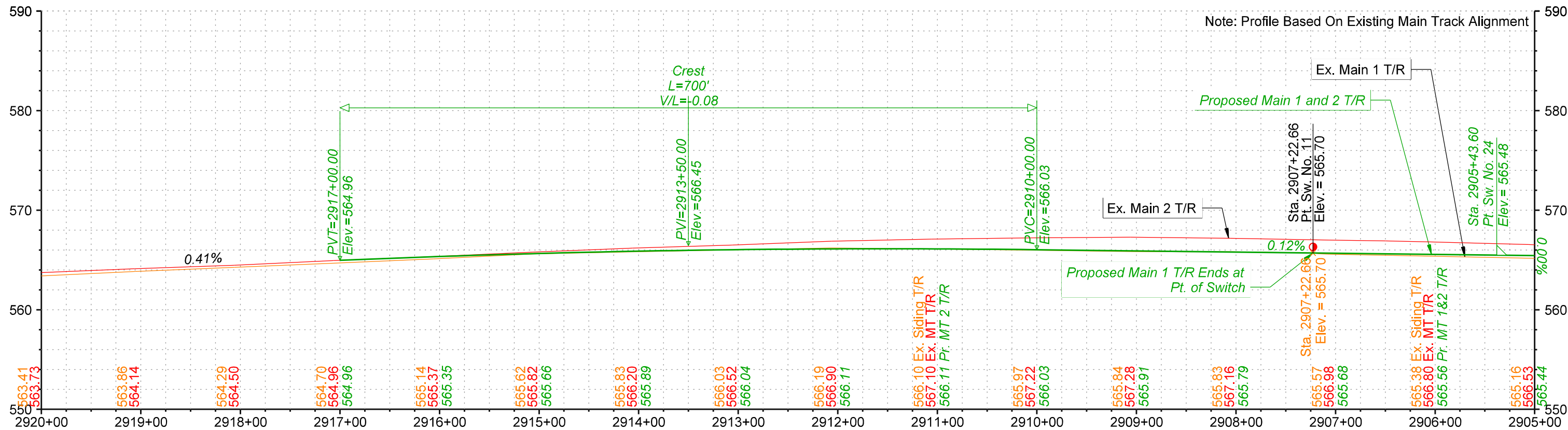
QL "C/D" LINEWORK IS BASED ON AVAILABLE
RECORDS AND ABOVE-GROUND FEATURES

"ELECTRONIC DEPTH" (E.D) VALUES SHOWN
ARE APPROXIMATE ONLY, AND NOT INTENDED
FOR DESIGN OR CONSTRUCTION USE.

PRELIMINARY
NOT FOR CONSTRUCTION 11/22/2024

 HDR ENGINEERING INC. 1917 S. 67TH ST. OMAHA, NE 68106		DRAWN BY: BND CHECKED BY: ADK DATE: 11/22/2024 SHEET NUMBER G005 of G007	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A SHEET TITLE: Utility Abbreviations & Legend
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PRELIMINARY

NOT FOR CONSTRUCTION 11/22/2024



DRAWN BY: BND

CHECKED BY: ADK

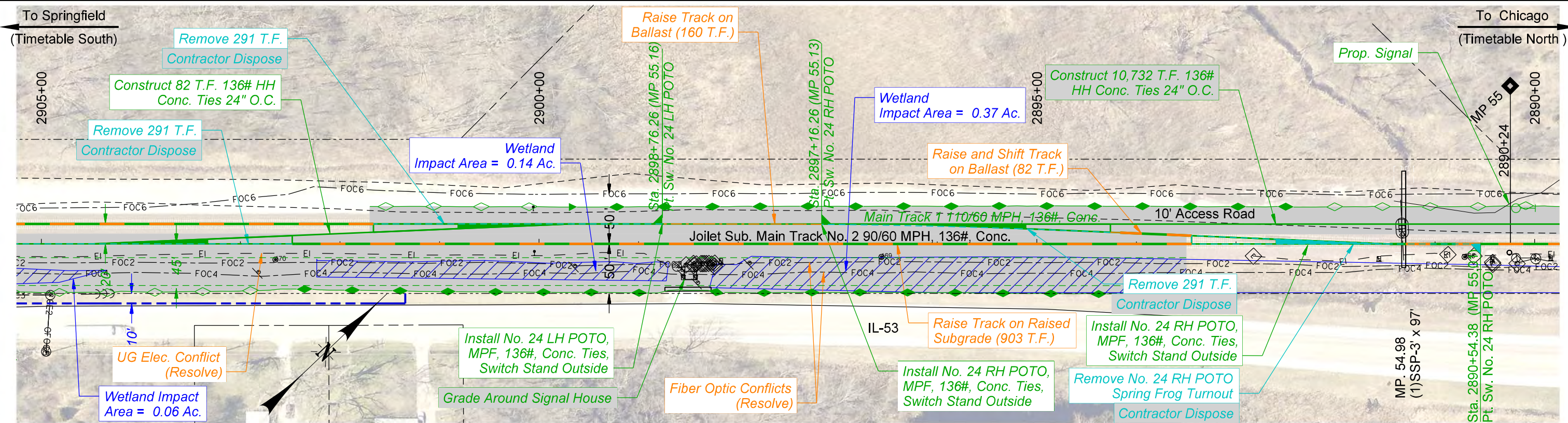
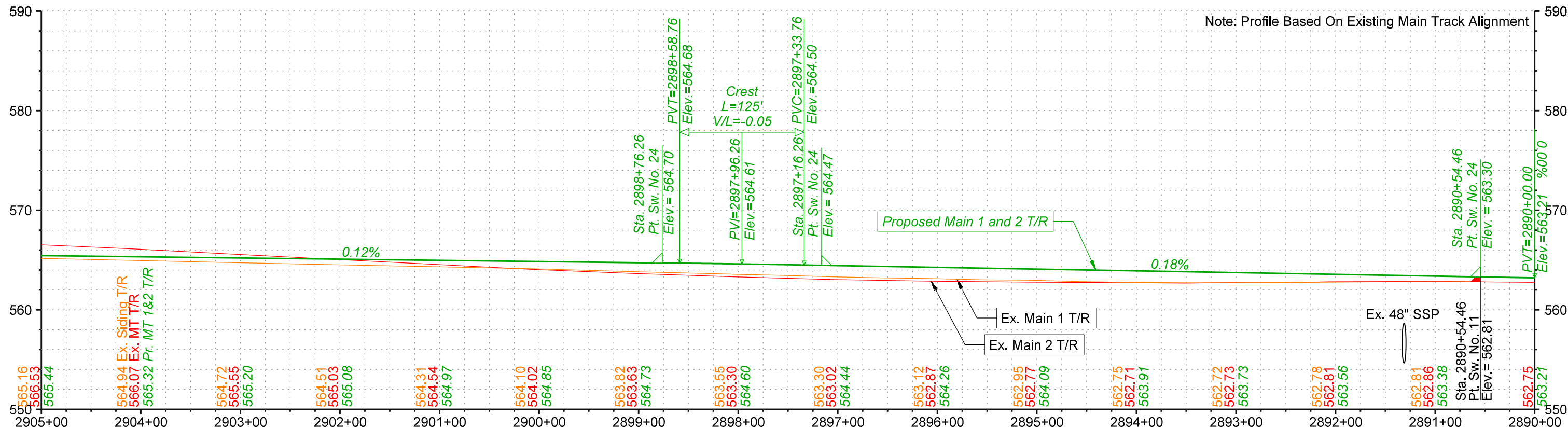
DATE: 11/22/2024

SHEET NUMBER: P001 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles

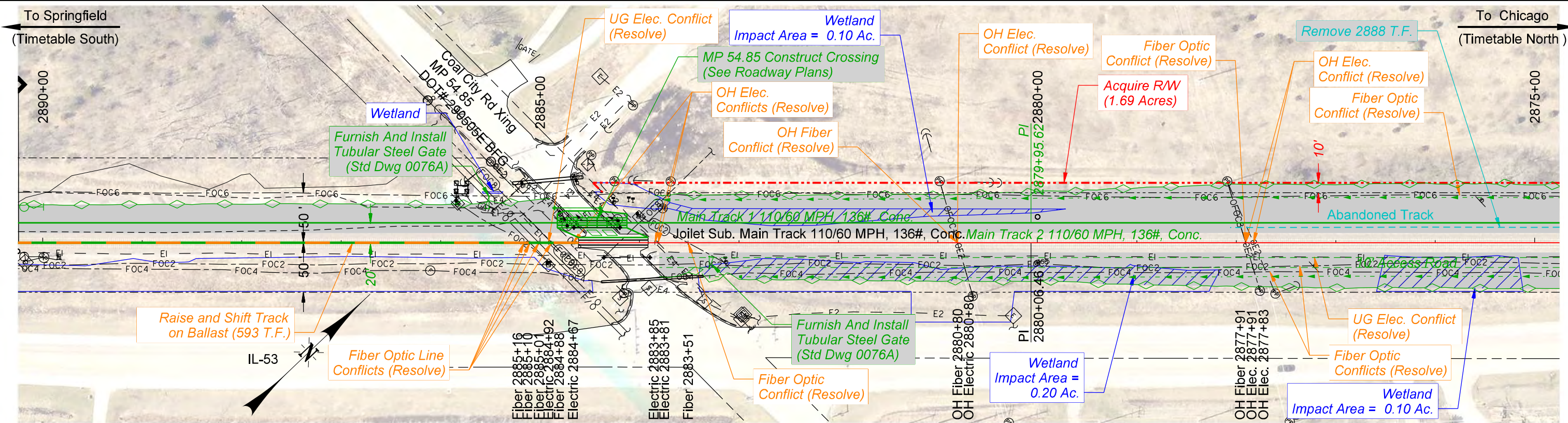
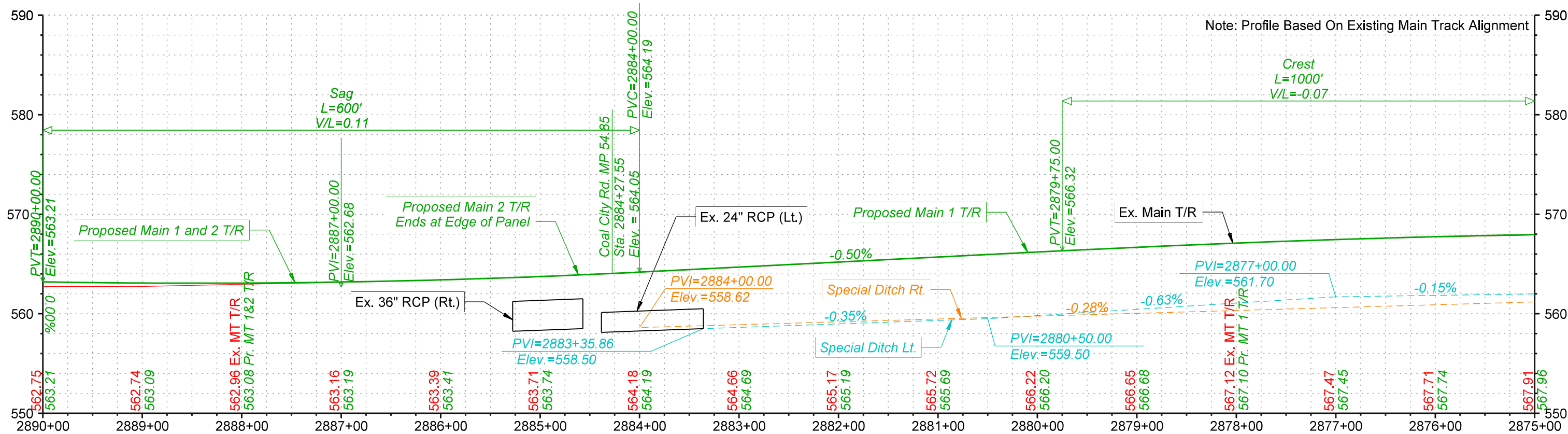


PRELIMINARY

NOT FOR CONSTRUCTION 11/22/2024



DRAWN BY: BND	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
CHECKED BY: ADK	
DATE: 11/22/2024	
SHEET NUMBER: P002 of P040	
SHEET TITLE: PLAN AND PROFILE	

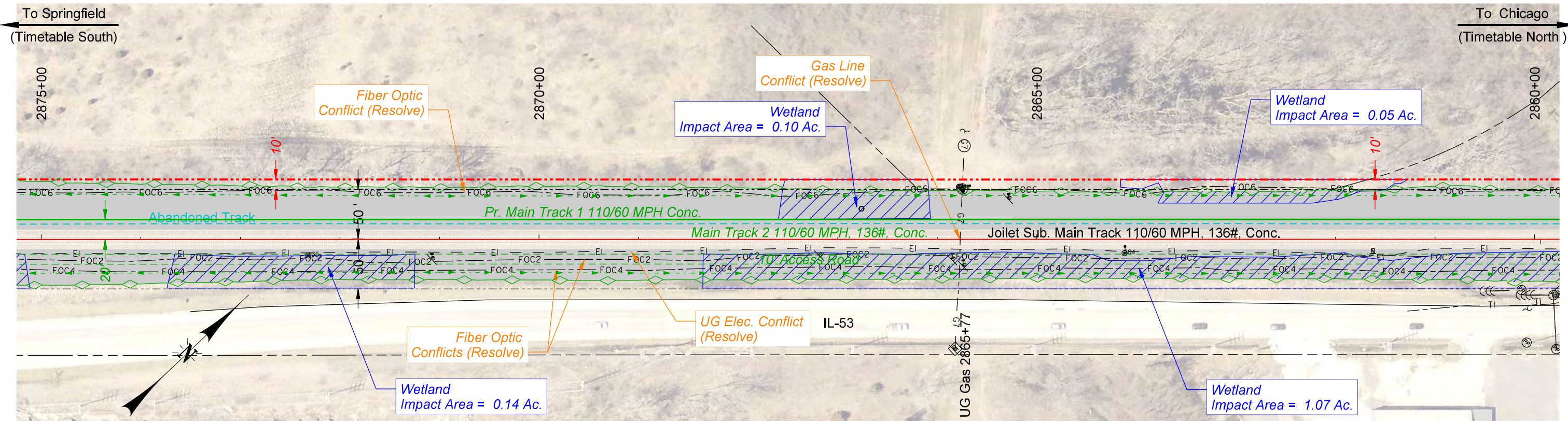
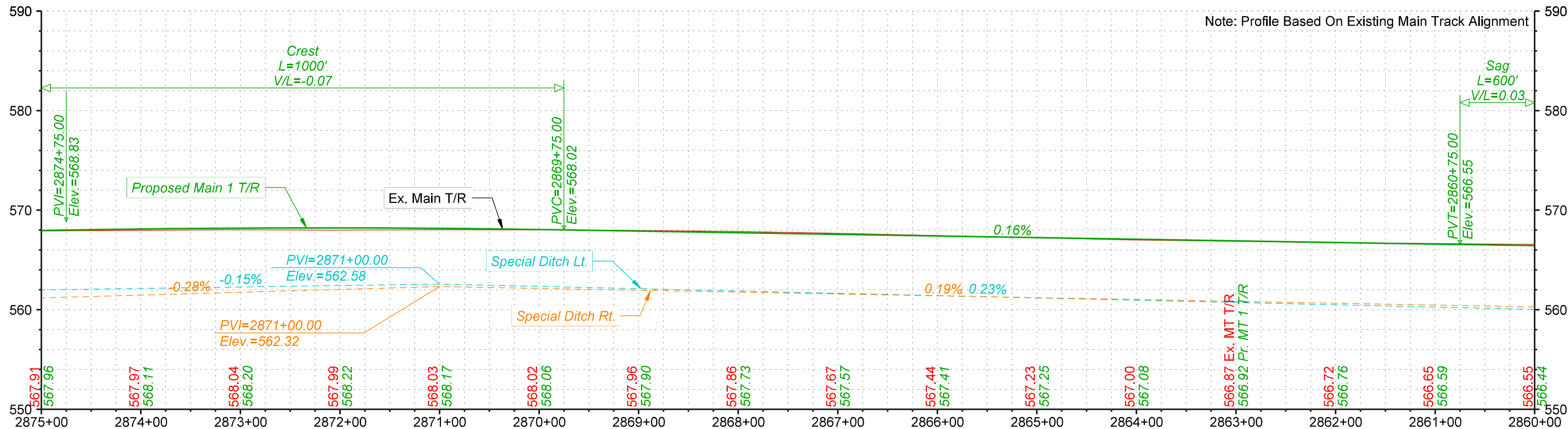


PRELIMINARY
NOT FOR CONSTRUCTION 11/22/2024



DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: P003 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A
SHEET TITLE: Track Plan & Profiles

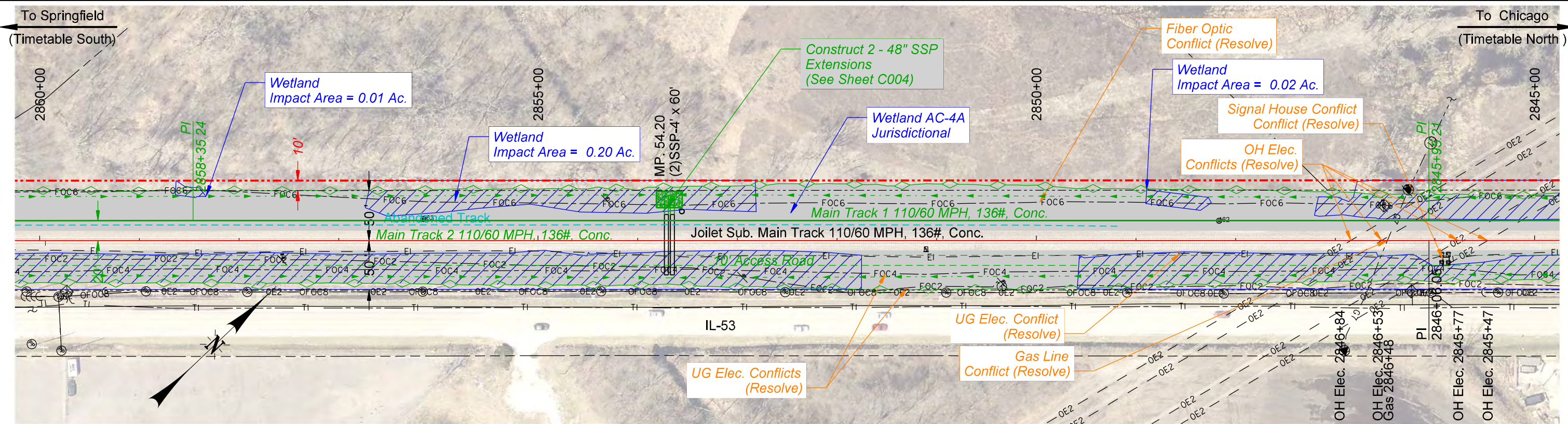
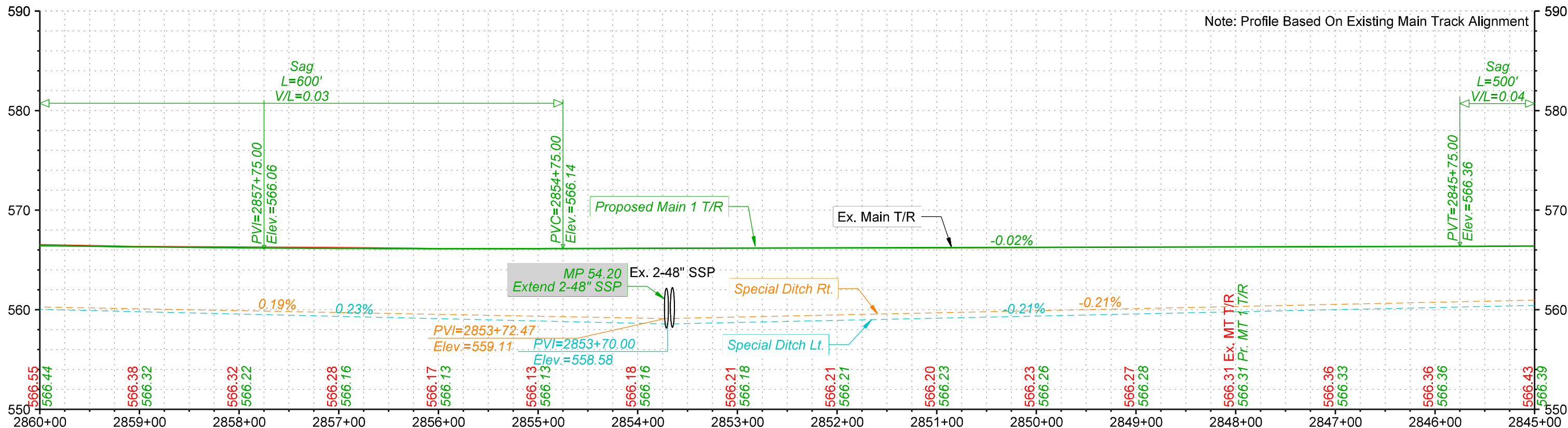


PRELIMINARY

NOT FOR CONSTRUCTION 11/22/2024



DRAWN BY: BND	UNION PACIFIC RAILROAD
CHECKED BY: ADK	
DATE: 11/22/2024	LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
SHEET NUMBER P004 of P040	SHEET TITLE: Track Plan & Profiles



PRELIMINARY
NOT FOR CONSTRUCTION 11/22/2024

HDR
HDR ENGINEERING INC.
1917 S. 67TH ST.
OMAHA, NE 68106

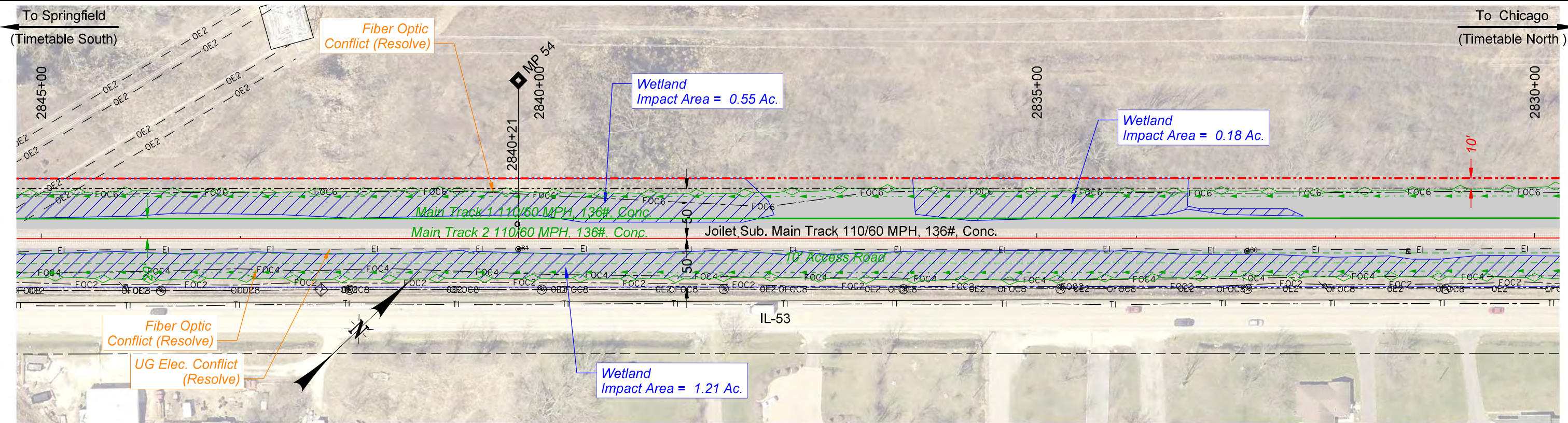
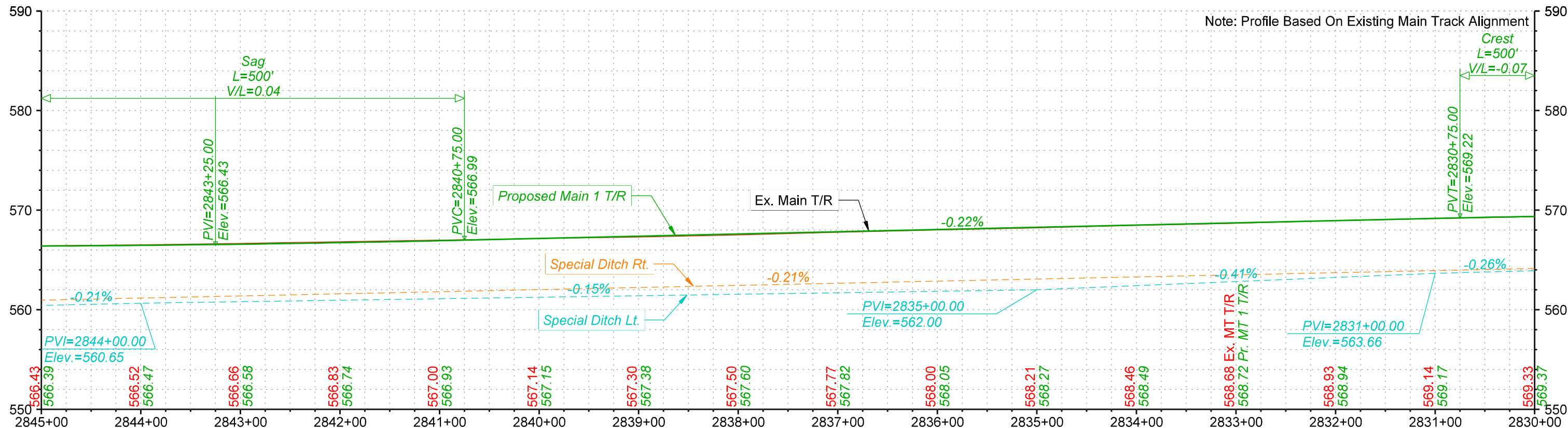
HNTB
HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102



DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: P005 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

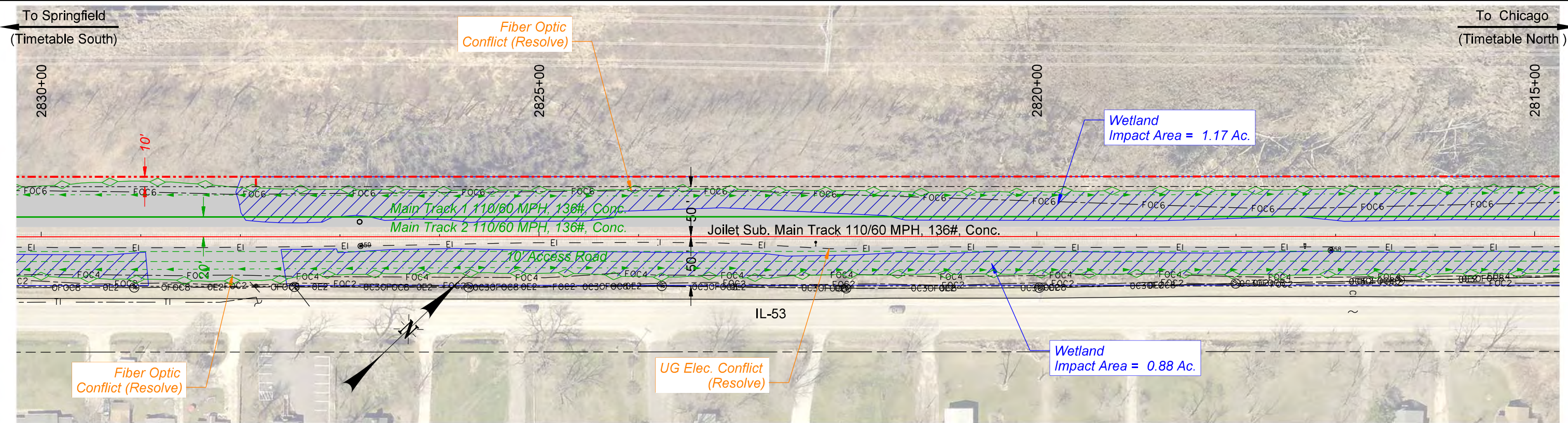
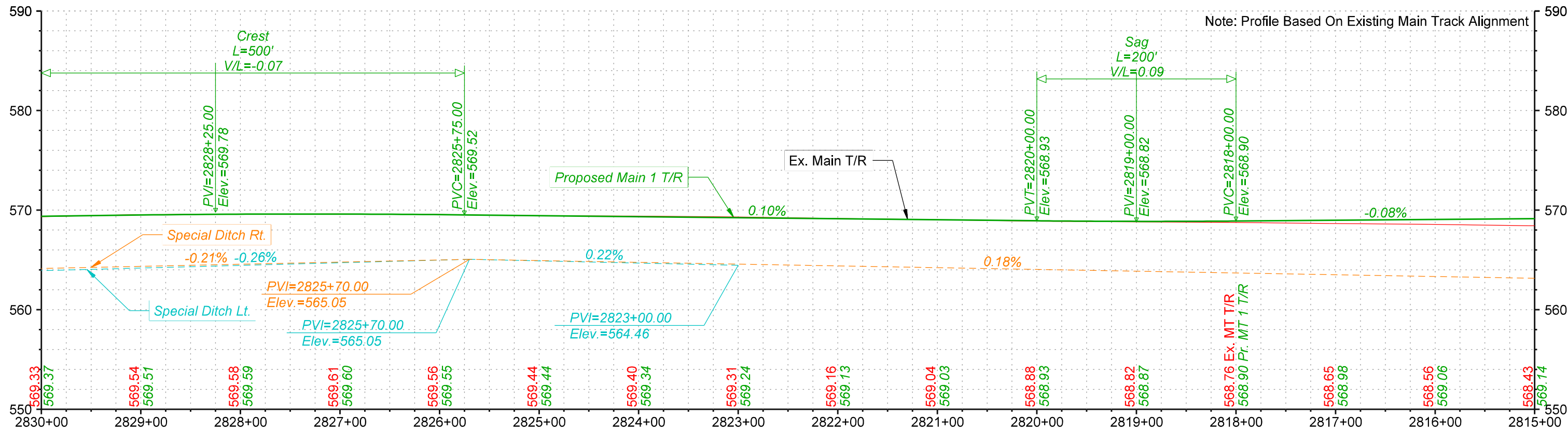
SHEET TITLE: Track Plan & Profiles



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DRAWN BY: BND	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
CHECKED BY: ADK	
DATE: 11/22/2024	
SHEET NUMBER P006 of P040	
SHEET TITLE: Track Plan & Profiles	

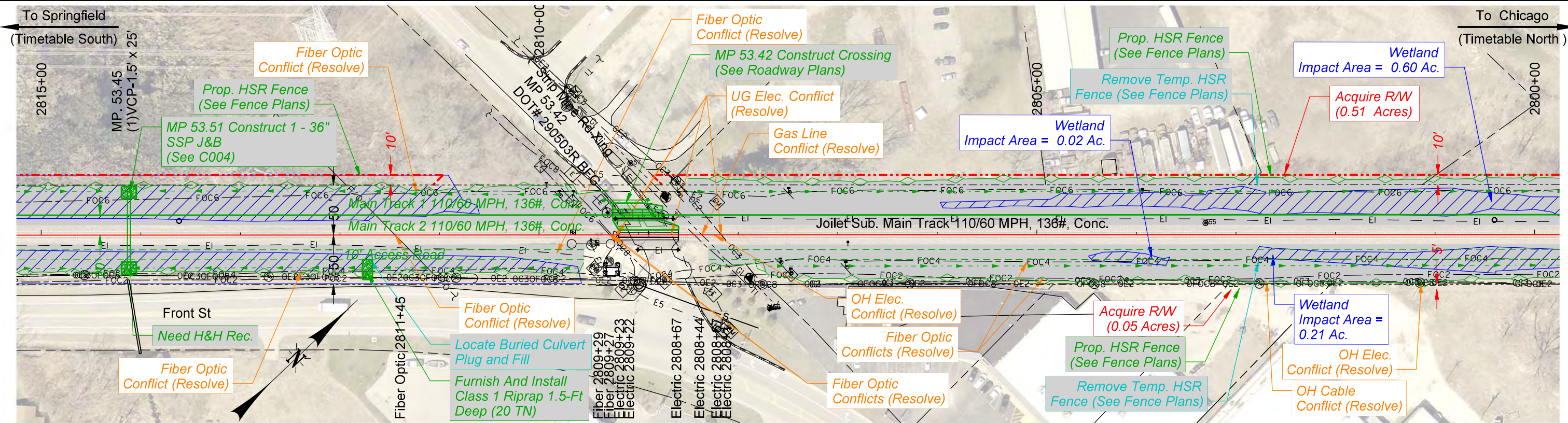
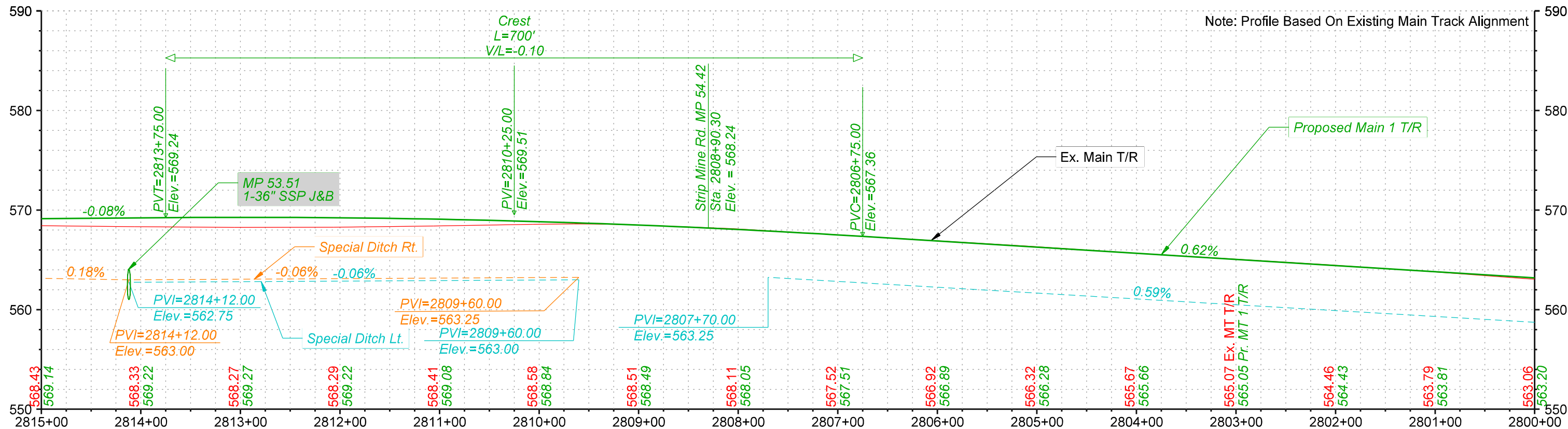


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CHECKED BY: ADK	LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
DATE: 11/22/2024	SHEET TITLE: Track Plan & Profiles
SHEET NUMBER P007 of P040	



PRELIMINARY

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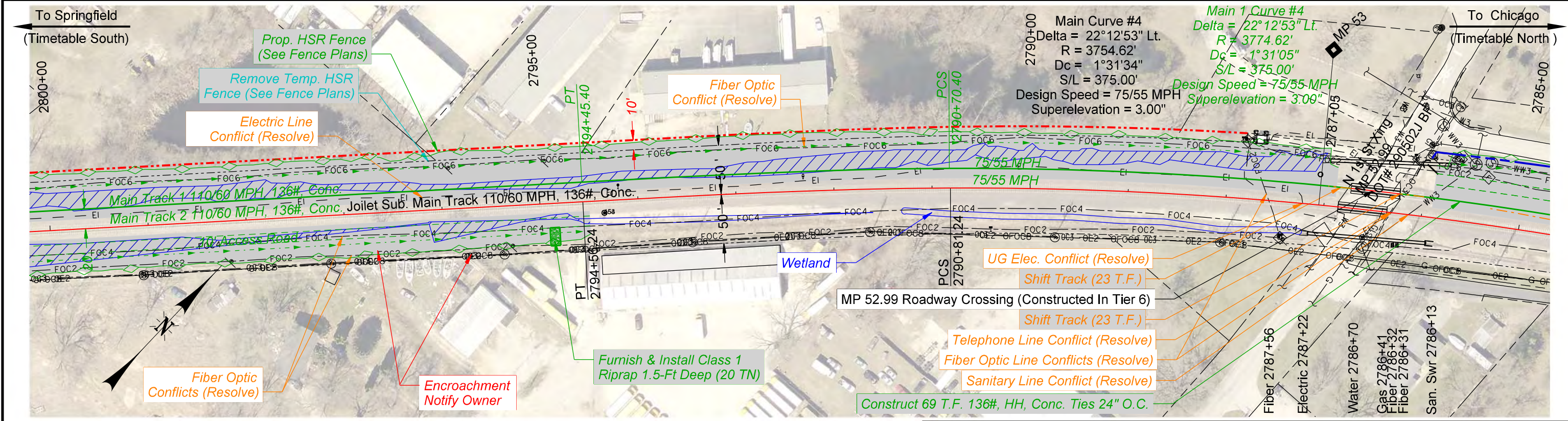
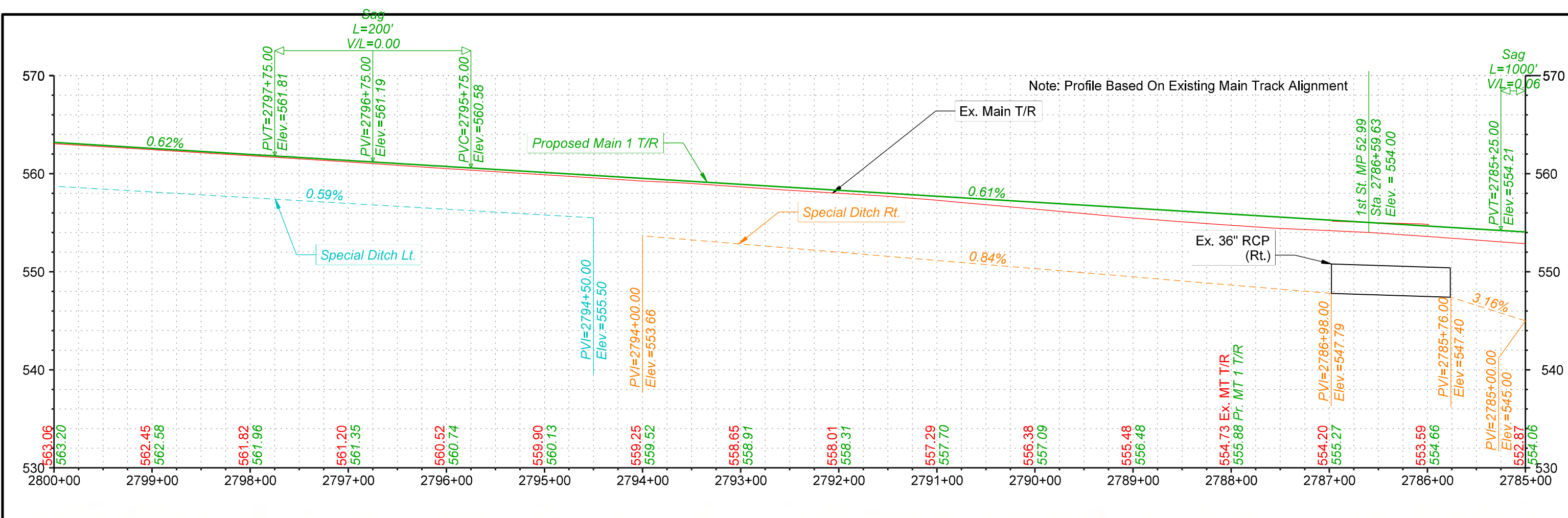


DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER
P008 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles



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SCALE IN FEET

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HDR

HDR ENGINEERING INC.
1917 S. 6TH ST.
OMAHA, NE 68106

HNTB

HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

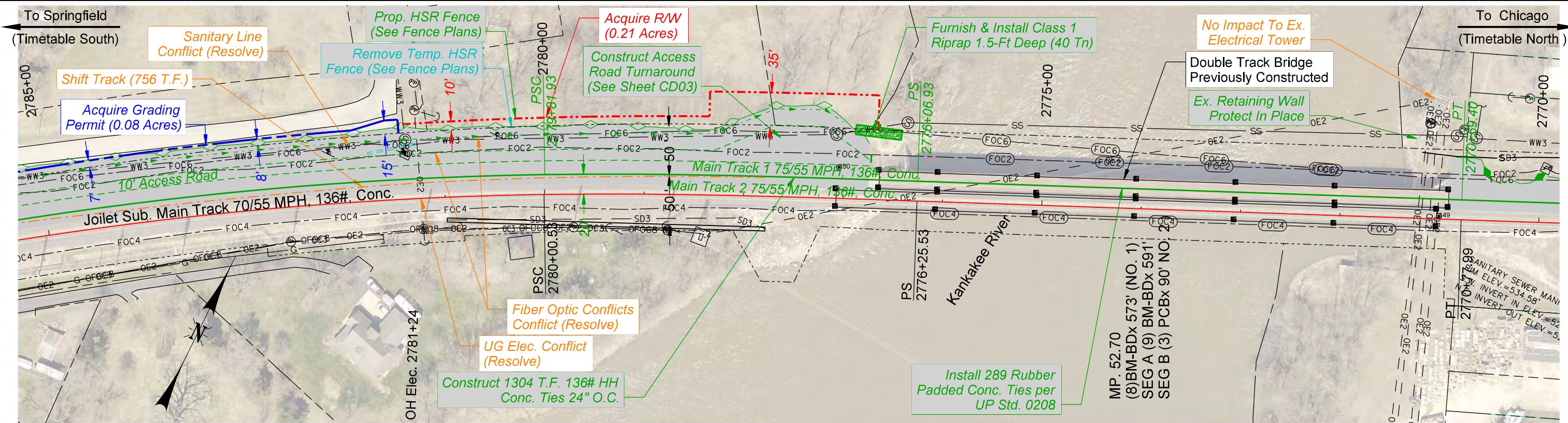
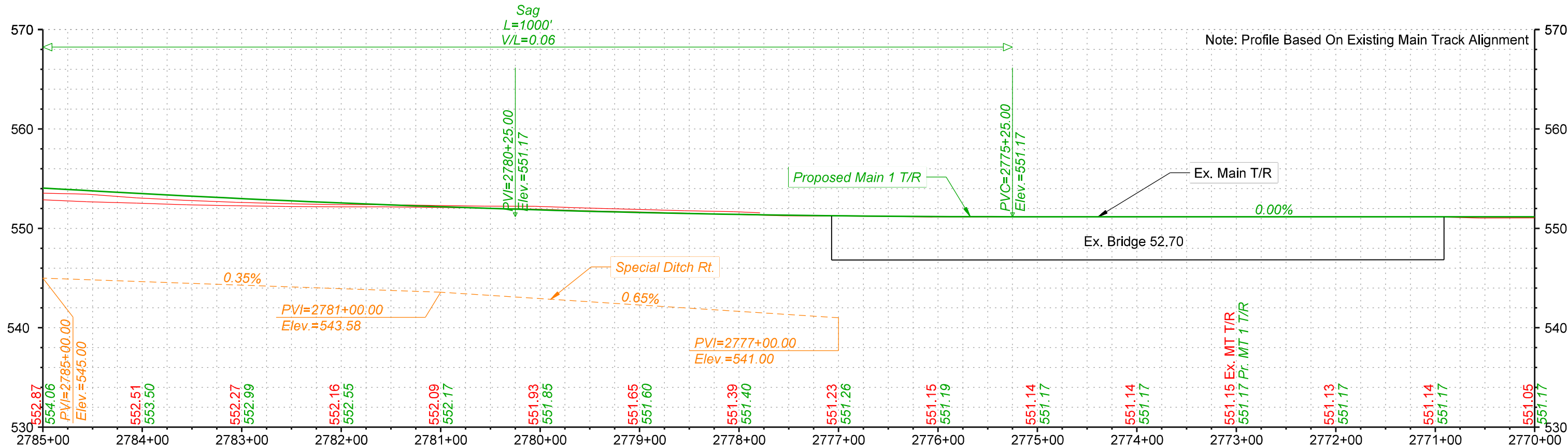
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Track Plan & Profiles

DRAWN BY: BND

CHECKED BY: ADK

DATE: 11/22/2024

SHEET NUMBER: P009 of P040



PRELIMINARY

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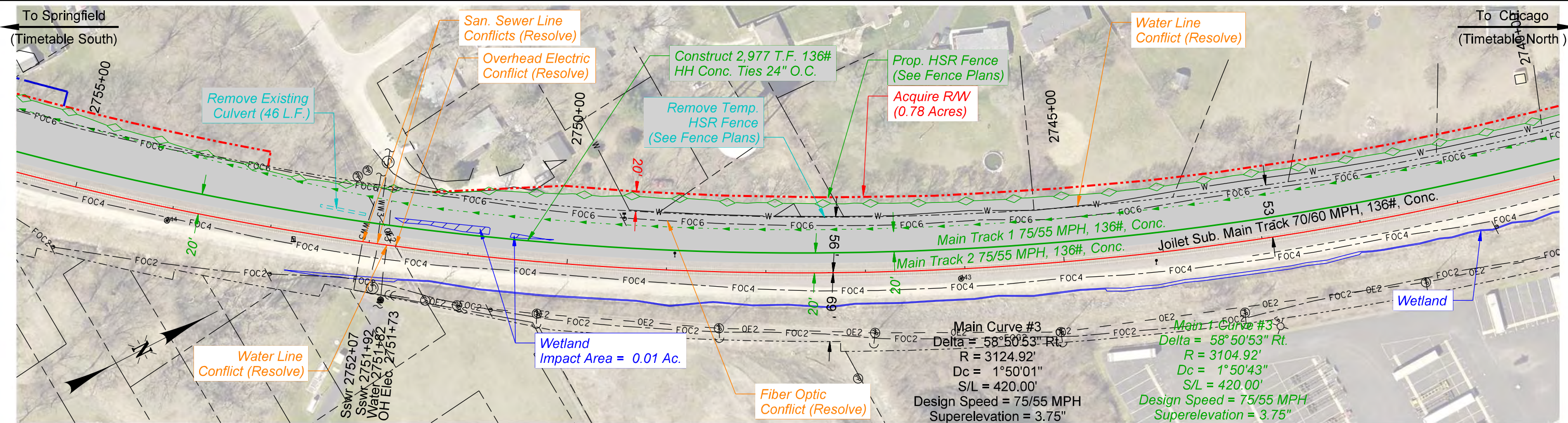
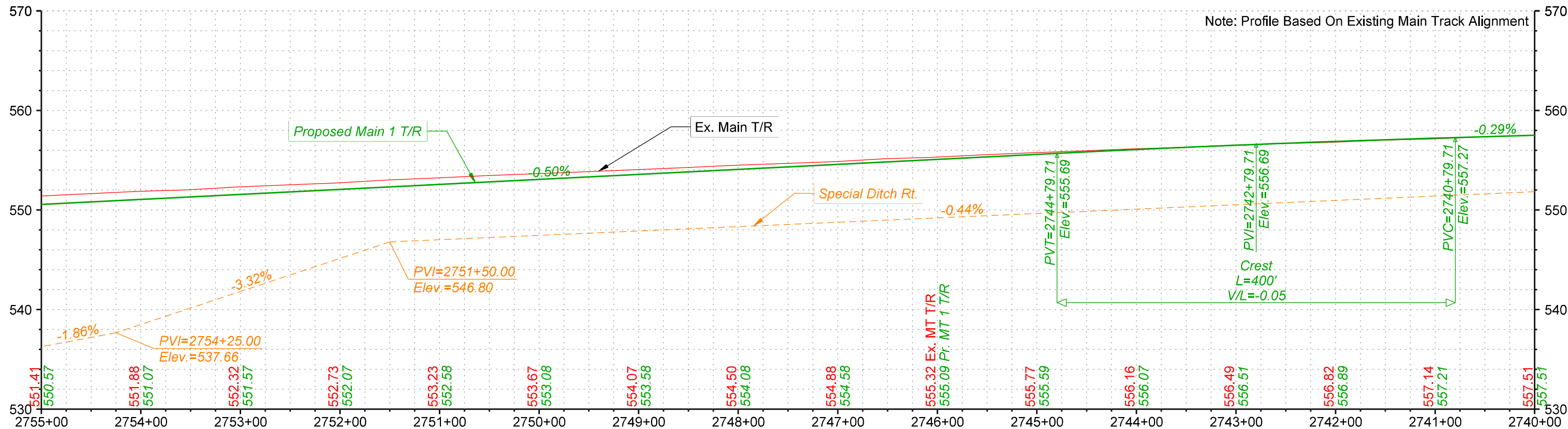


DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER
P010 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE:
Track Plan & Profiles

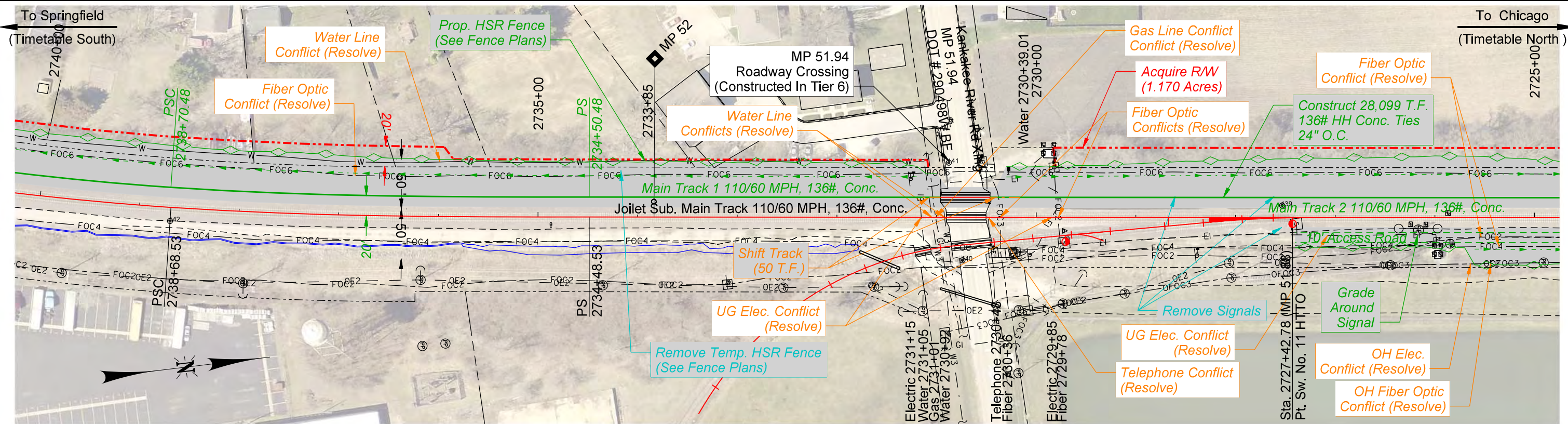
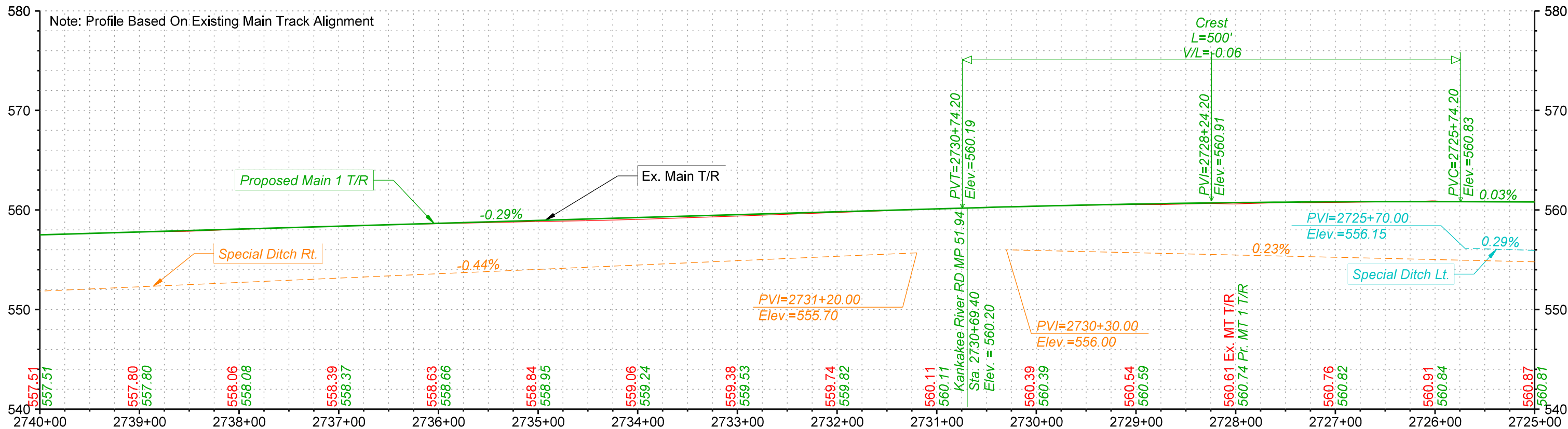


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DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: P012 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A
SHEET TITLE: Track Plan & Profiles

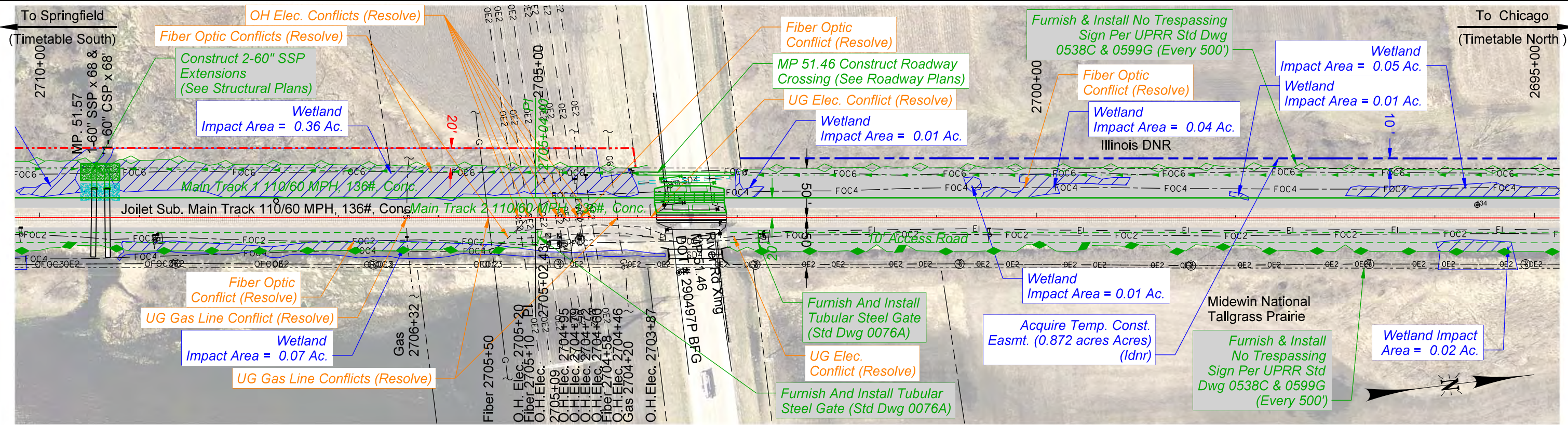
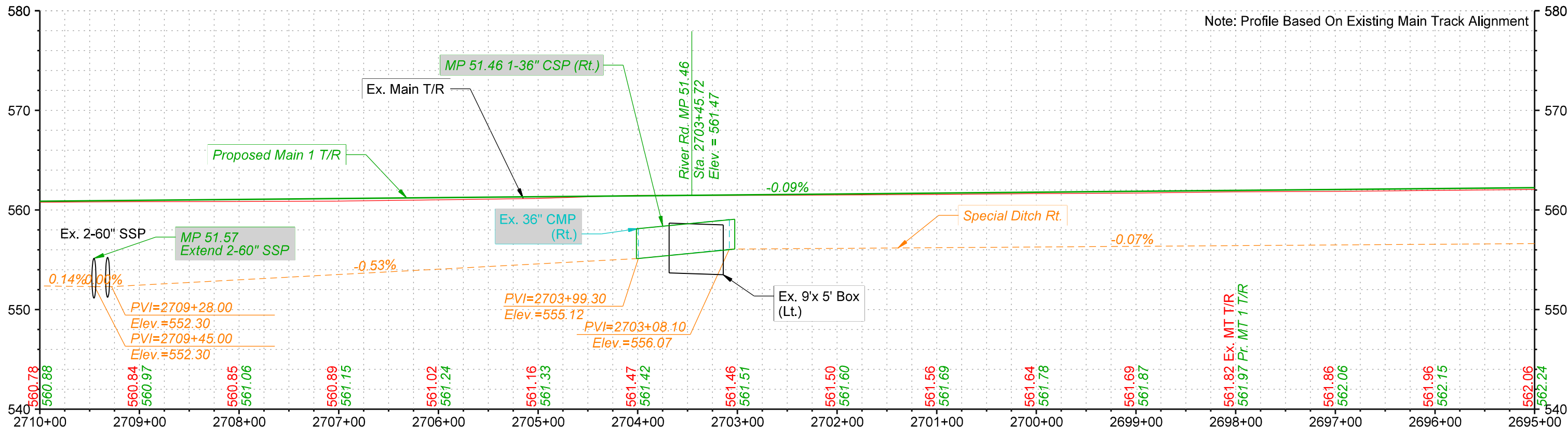


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DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: P013 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
SHEET TITLE: Track Plan & Profiles



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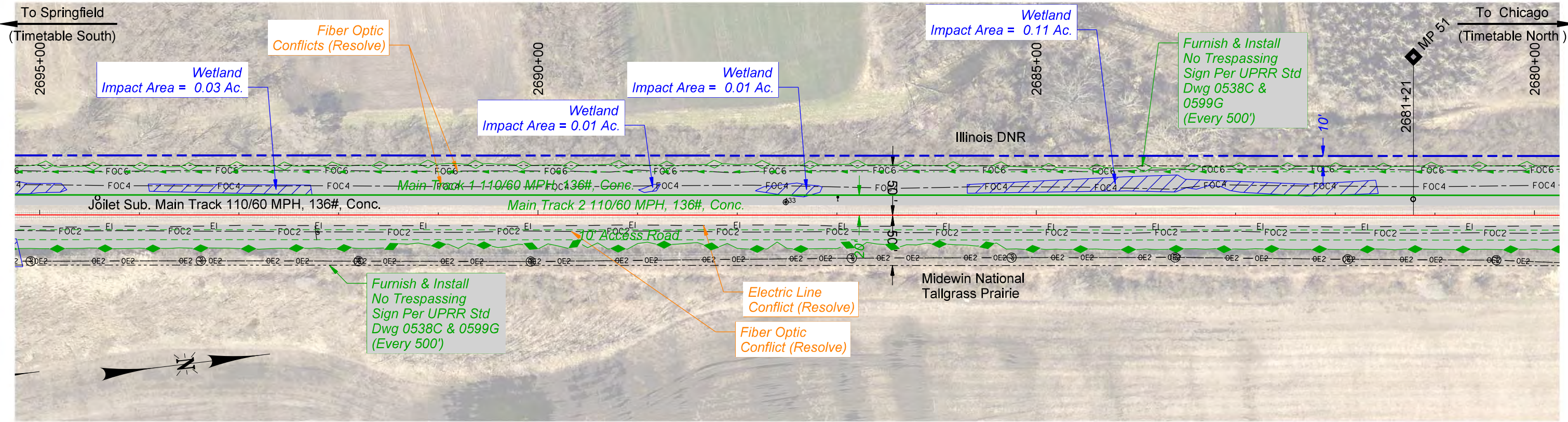
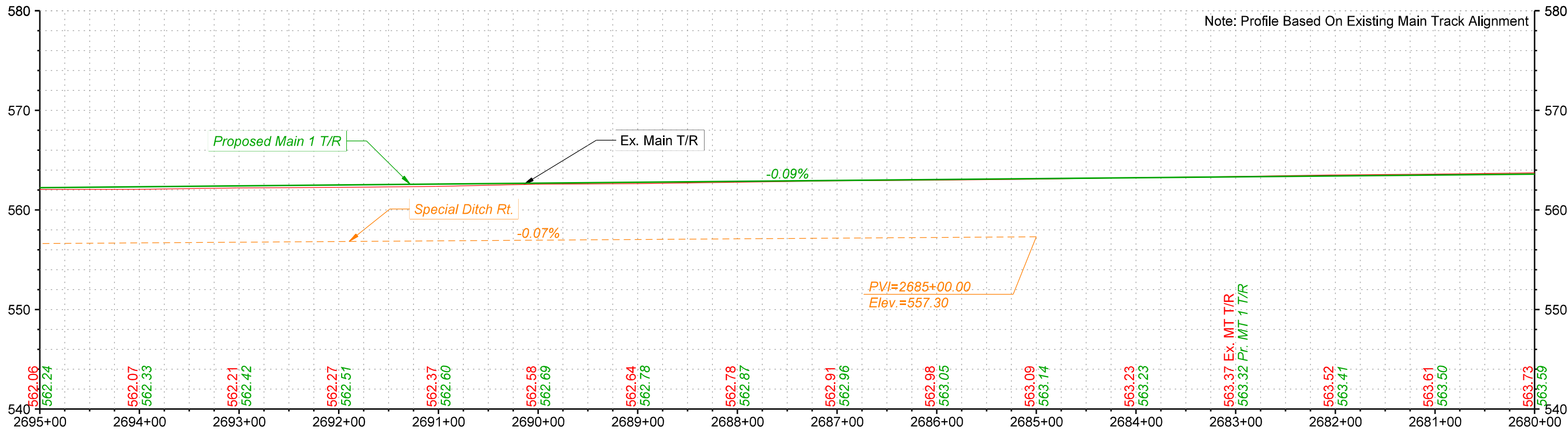


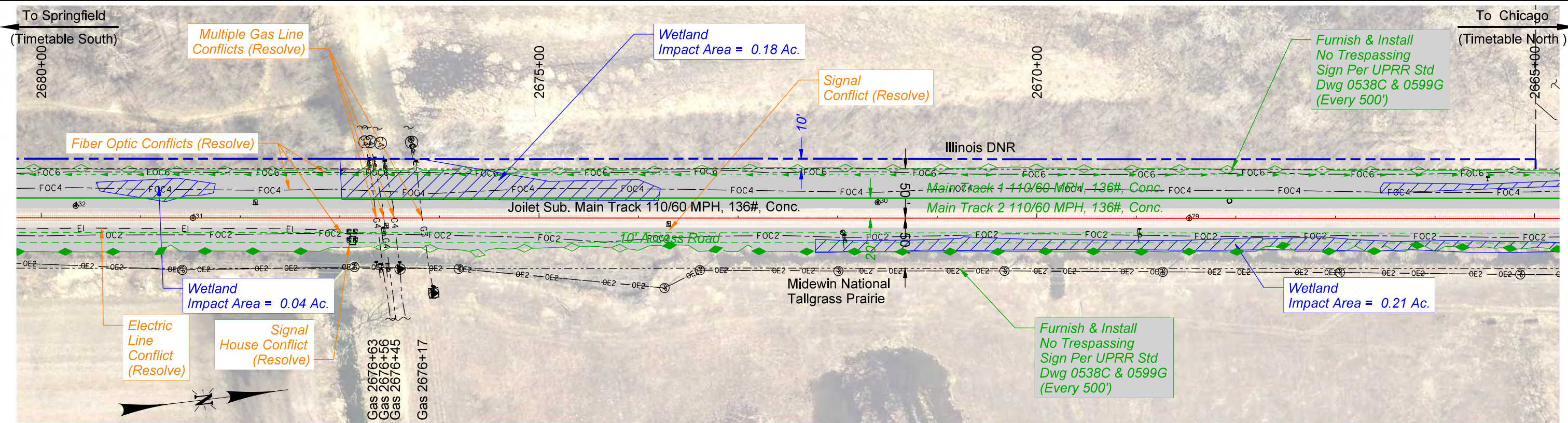
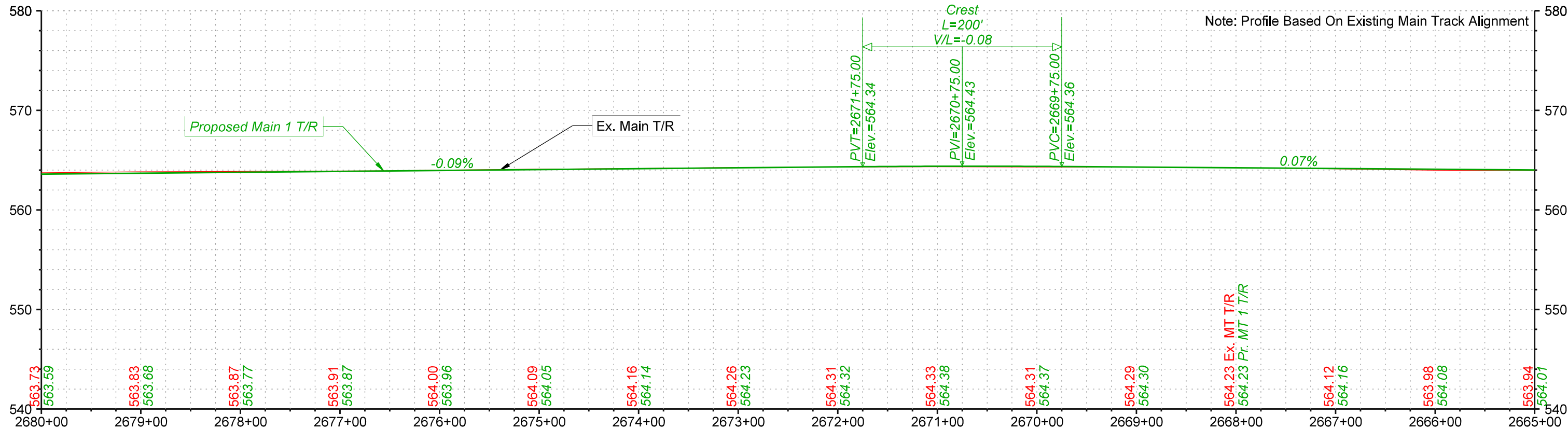
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DATE: 11/22/2024
SHEET NUMBER: P015 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles





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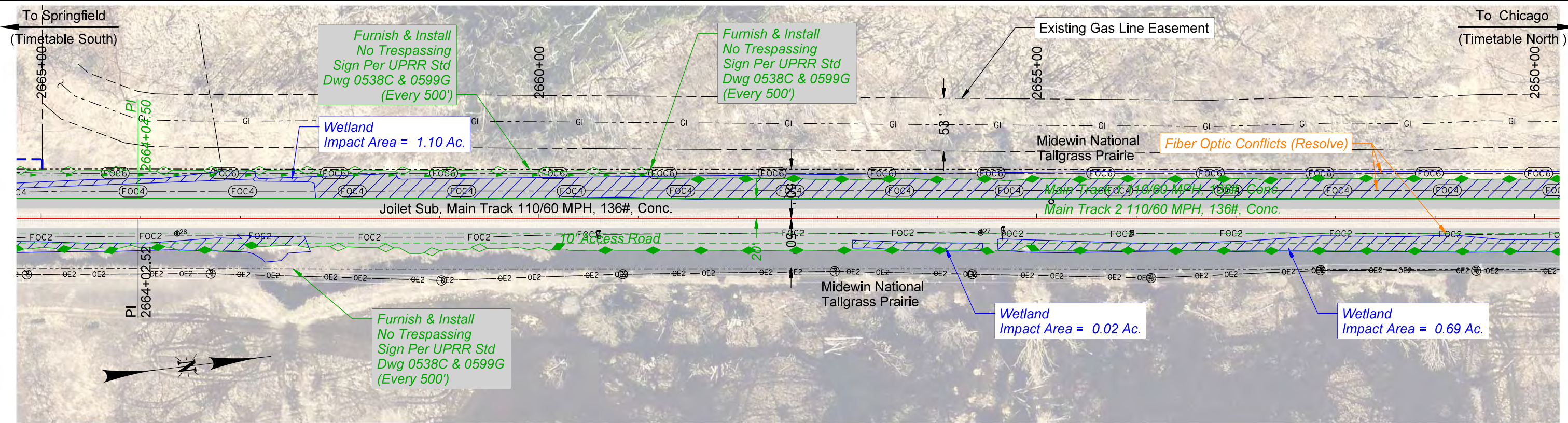
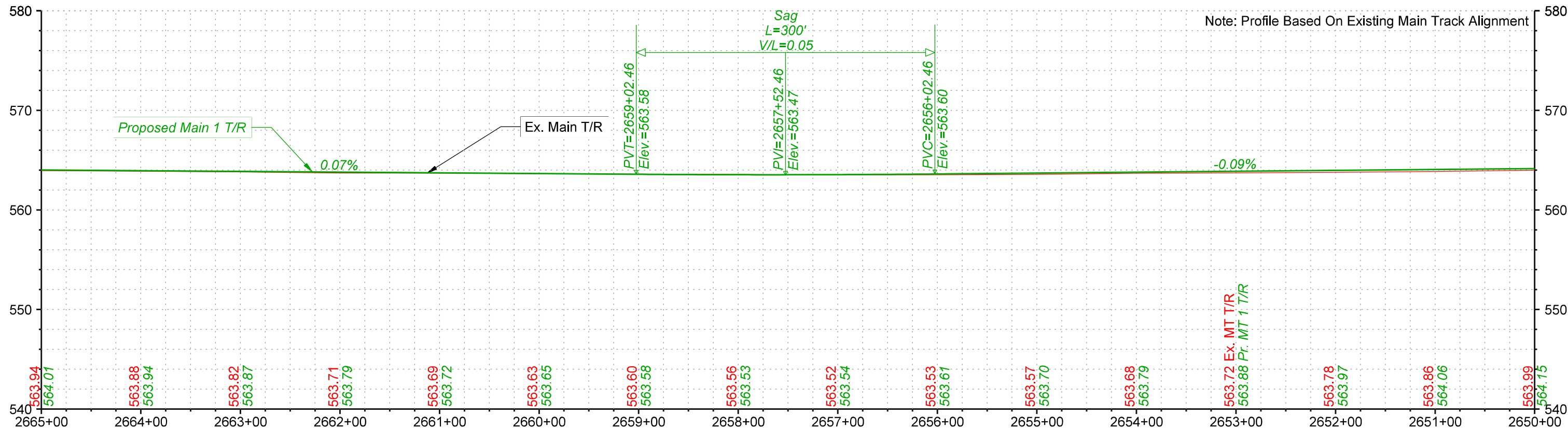


DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: P017 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joilet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles



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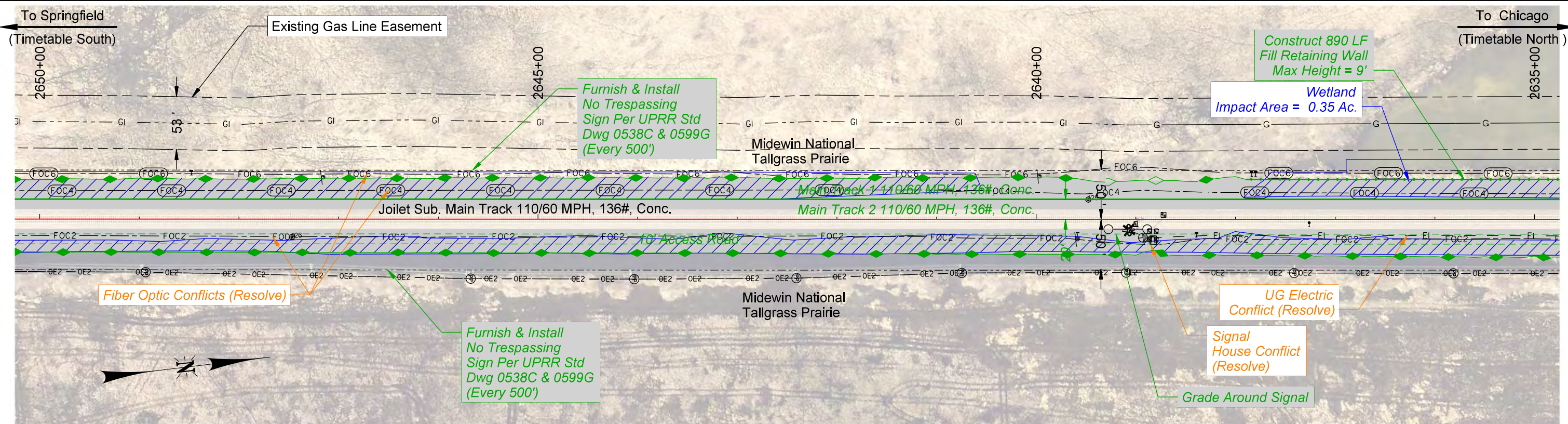
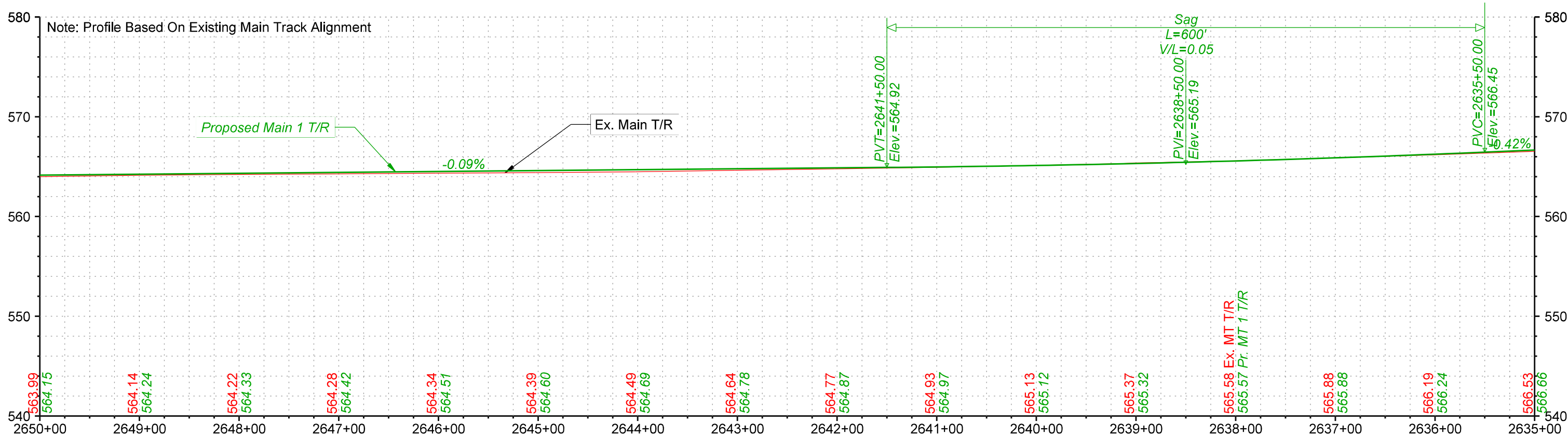
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11/22/2024

SHEET NUMBER
P018 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE:
Track Plan & Profiles

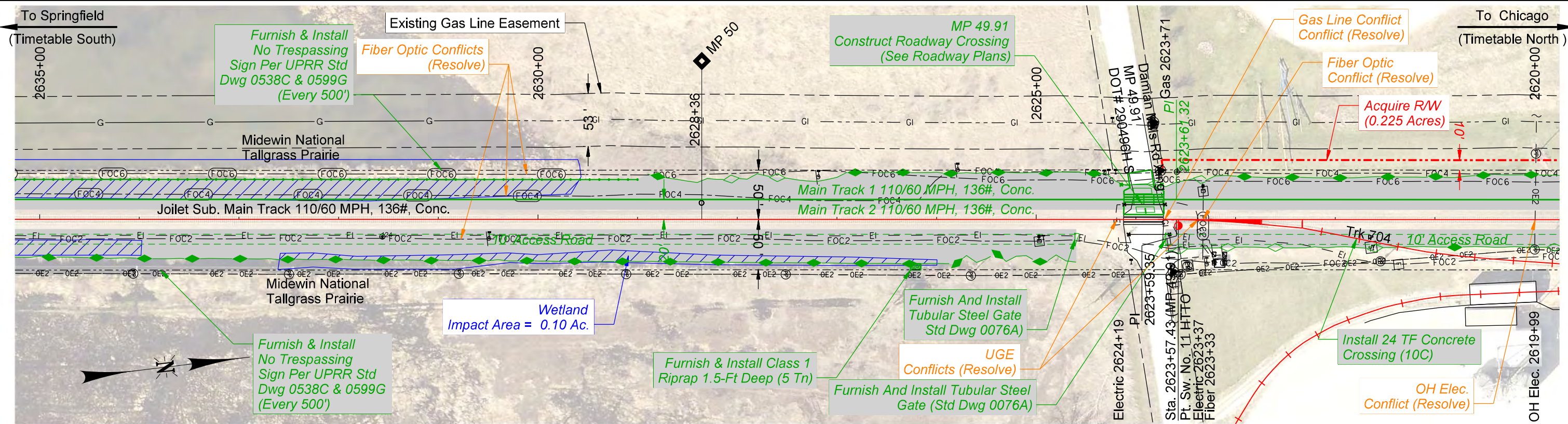
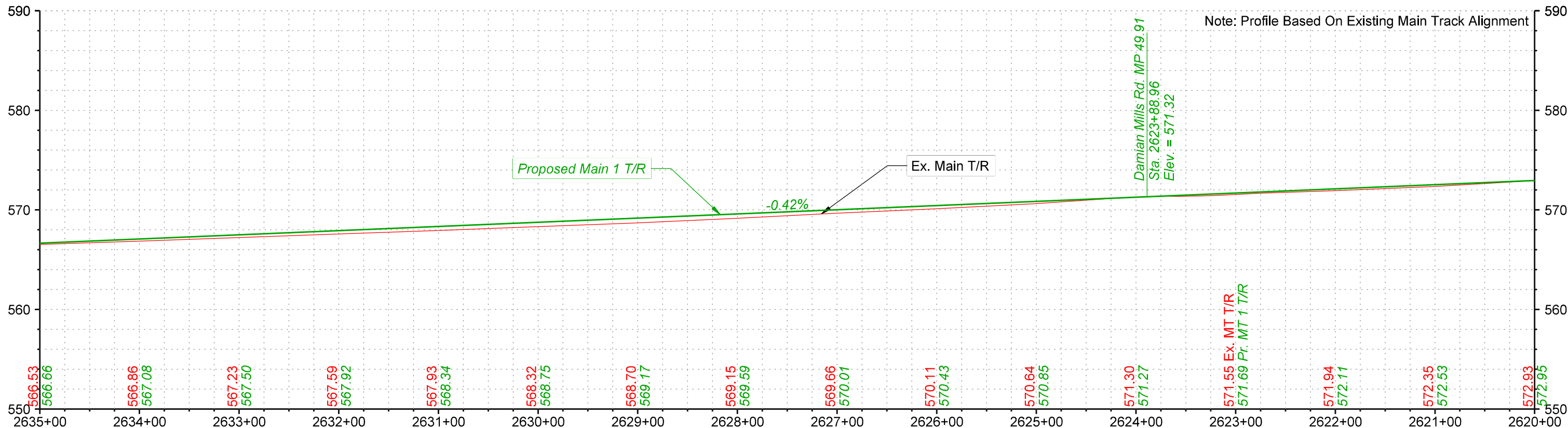


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DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: P019 of P040

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A
SHEET TITLE: Track Plan & Profiles



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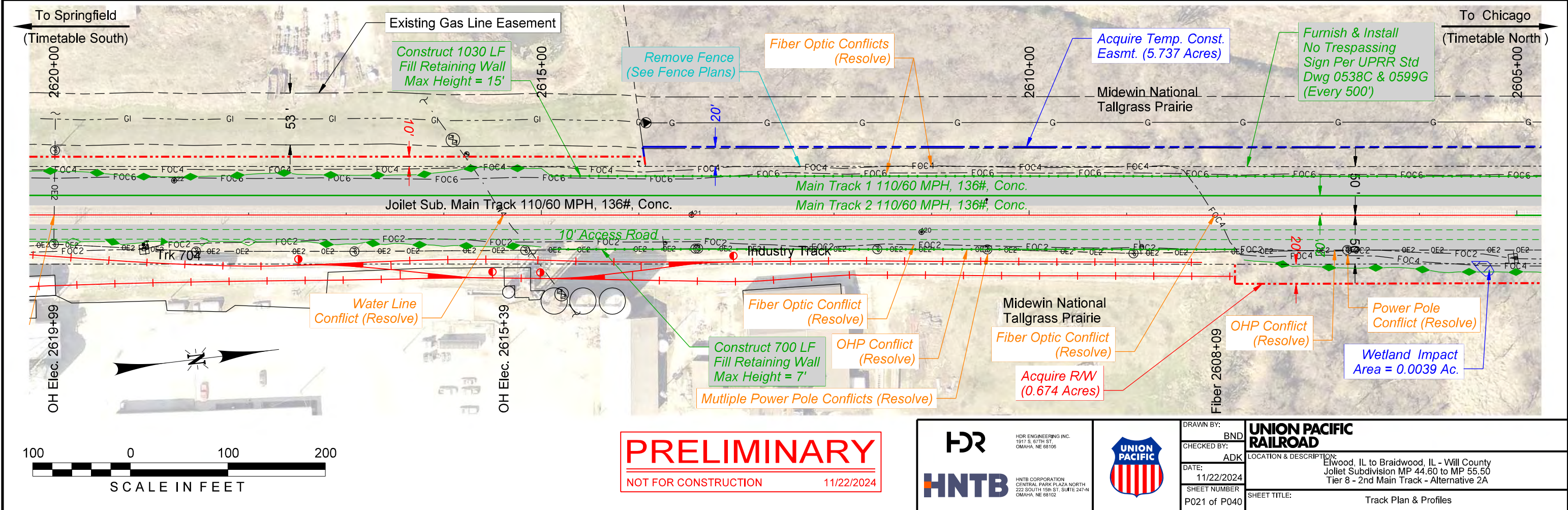
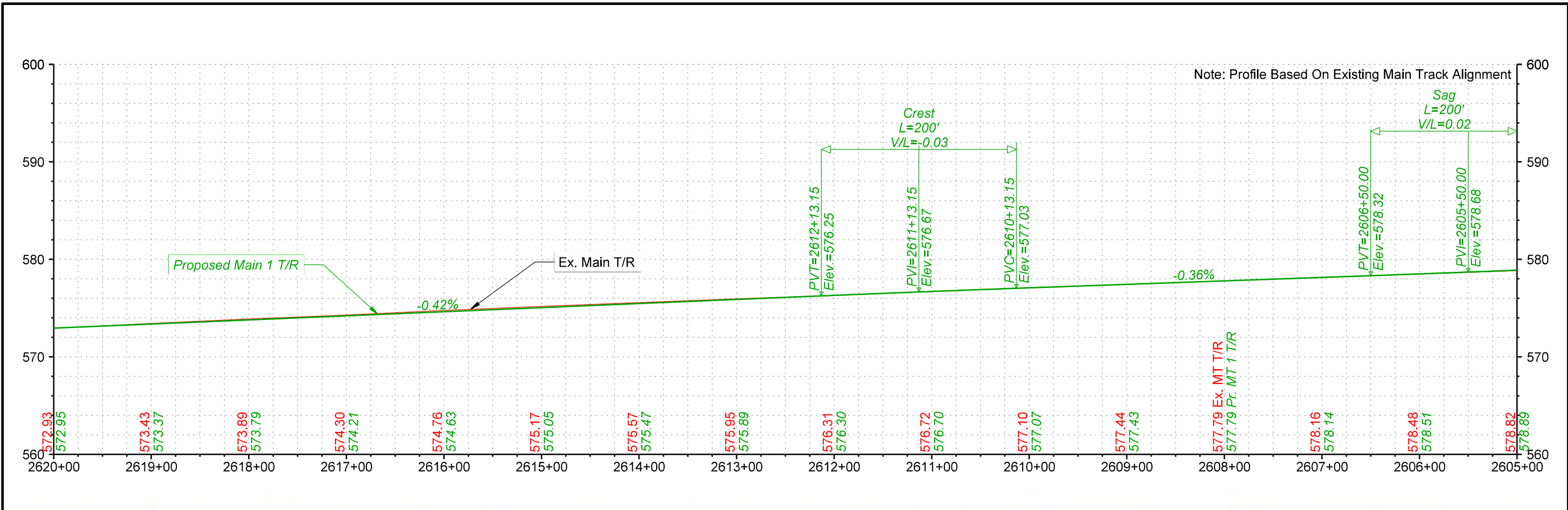


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SHEET NUMBER: P020 of P040

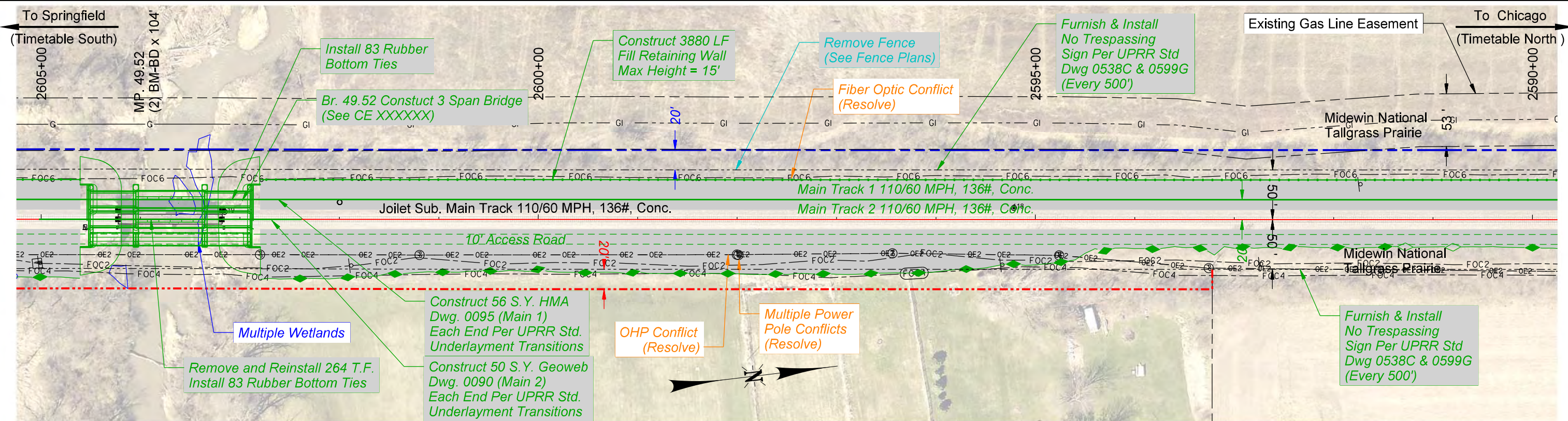
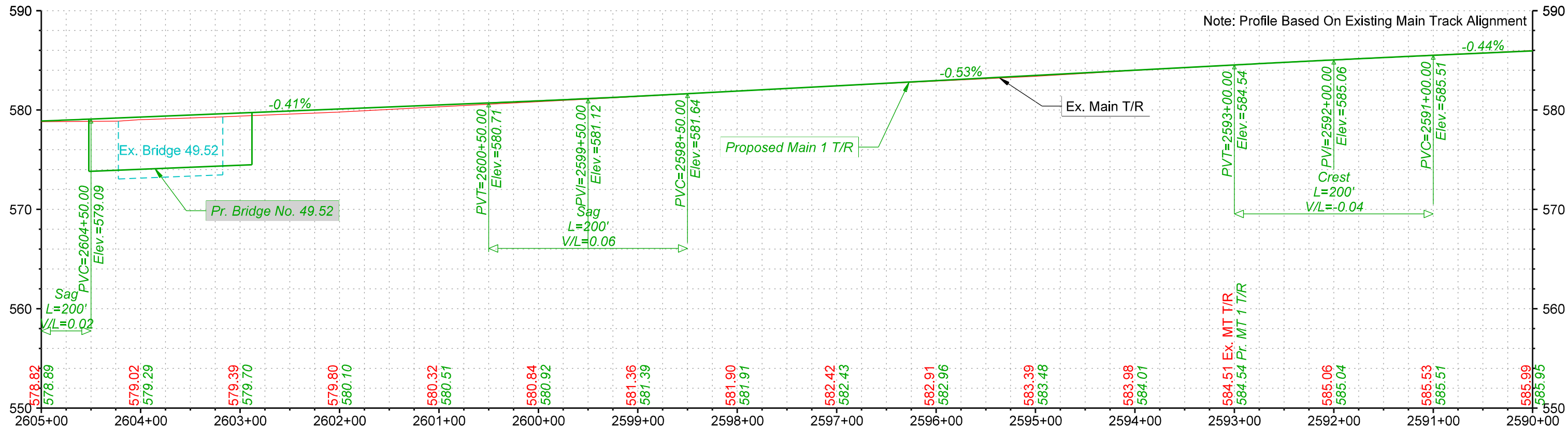
UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles



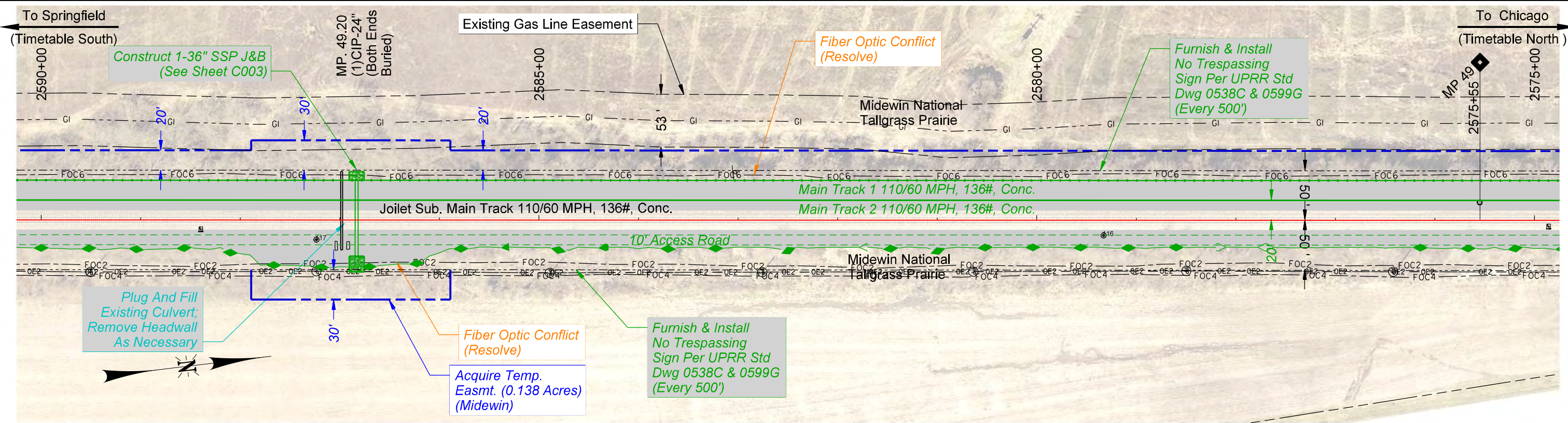
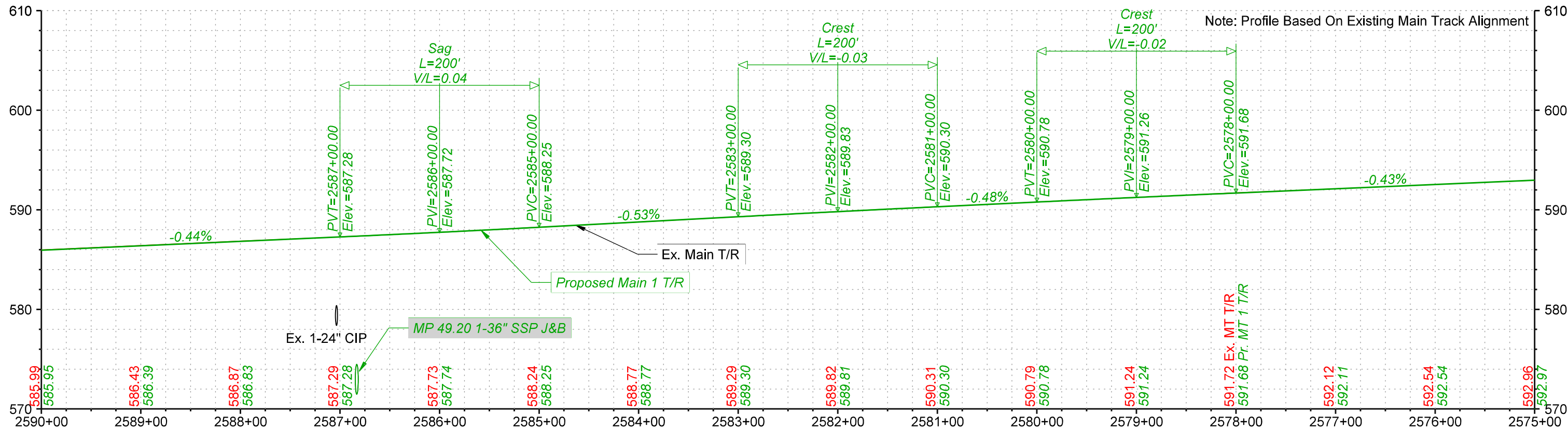
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PRELIMINARY

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 HDR HDR ENGINEERING INC. 1917 S. 67TH ST. OMAHA, NE 68106	 HNTB HNTB CORPORATION CENTRAL PARK PLAZA NORTH 222 SOUTH 15TH ST., SUITE 247-N OMAHA, NE 68102		DRAWN BY: BND	 UNION PACIFIC RAILROAD
			CHECKED BY: ADK	
			DATE: 11/22/2024	
			SHEET NUMBER: P022 of P040	
LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A			SHEET TITLE: Track Plan & Profiles	



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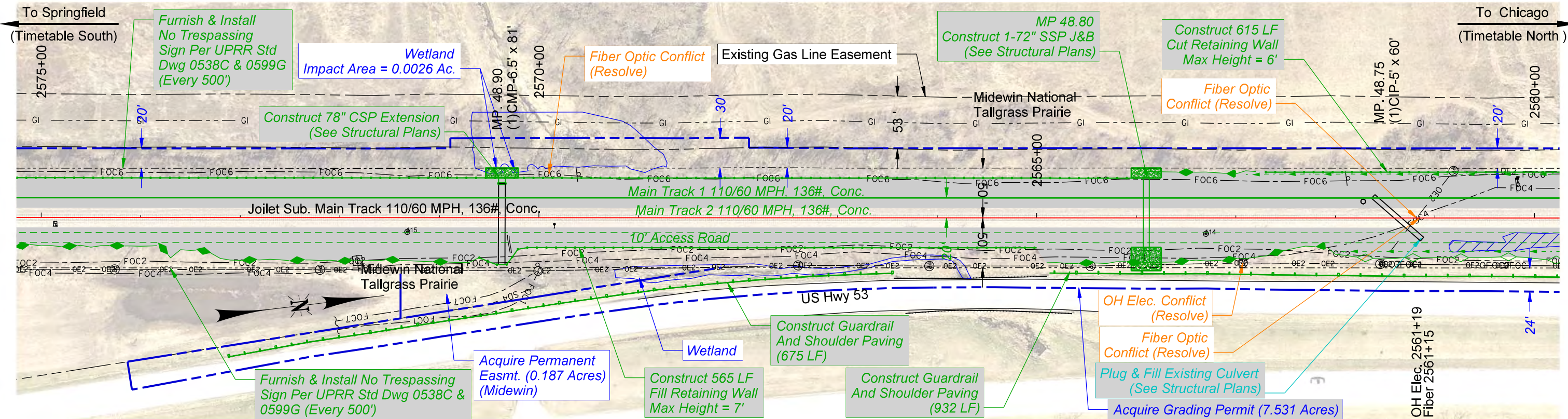
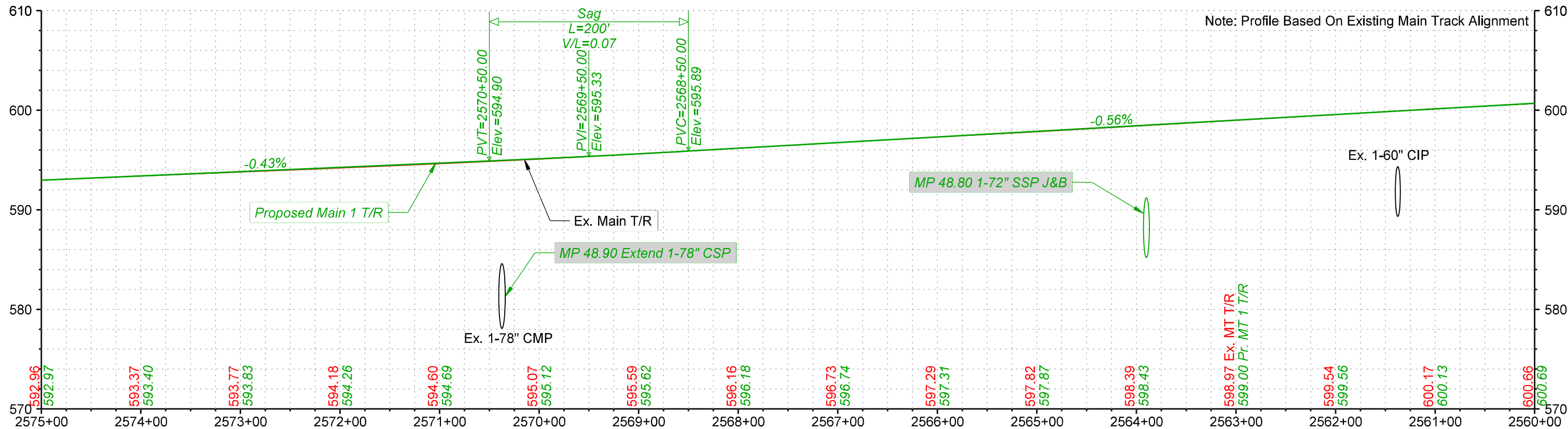


DRAWN BY: BND
CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER
P023 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles



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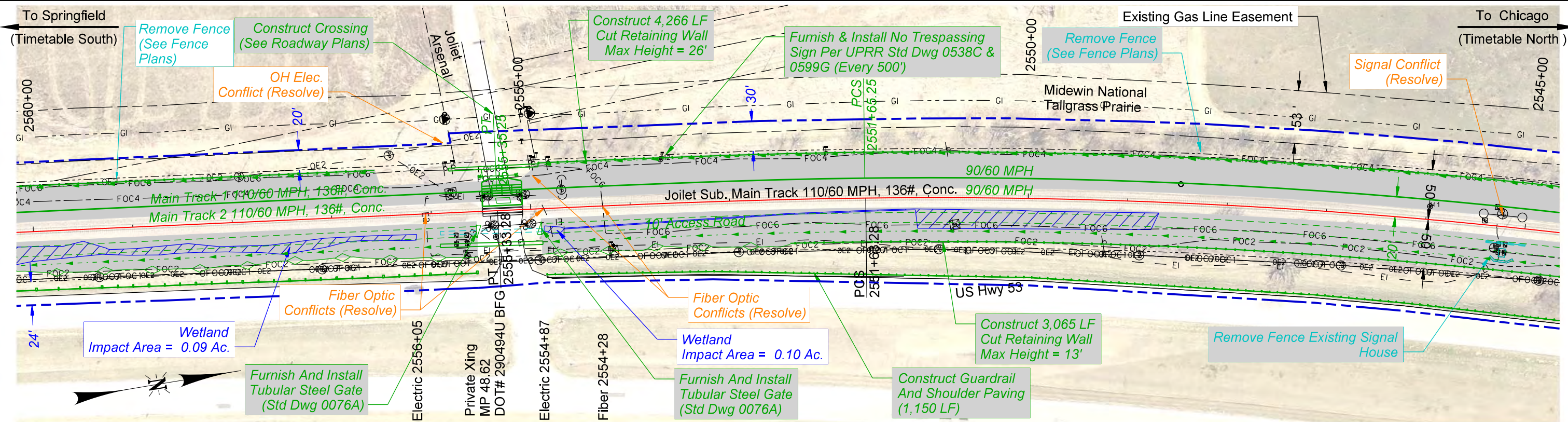
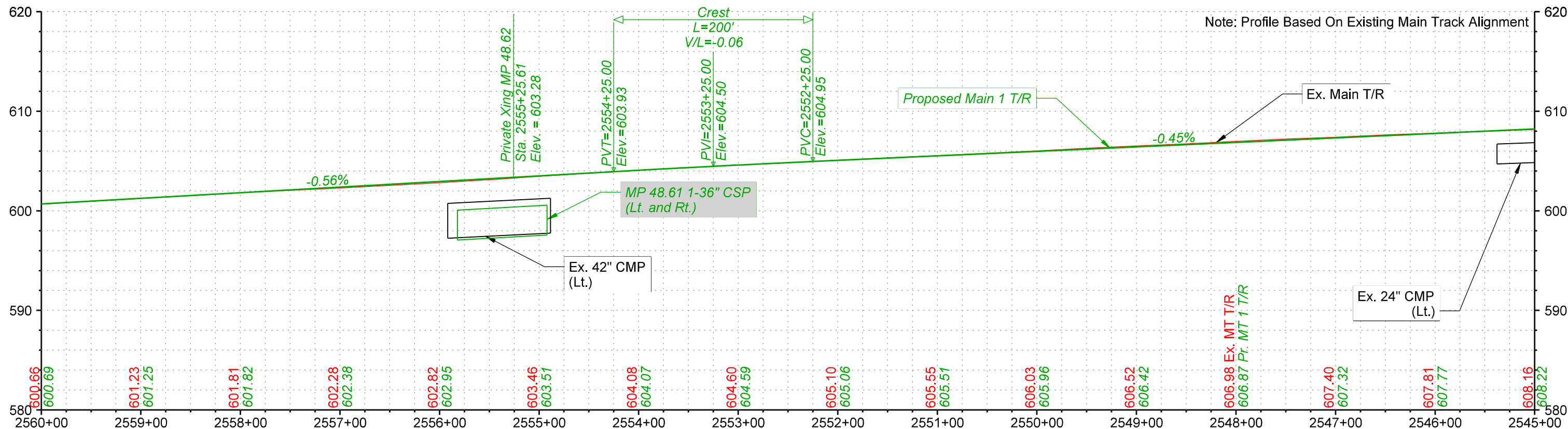


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CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER: P024 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles



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11/22/2024

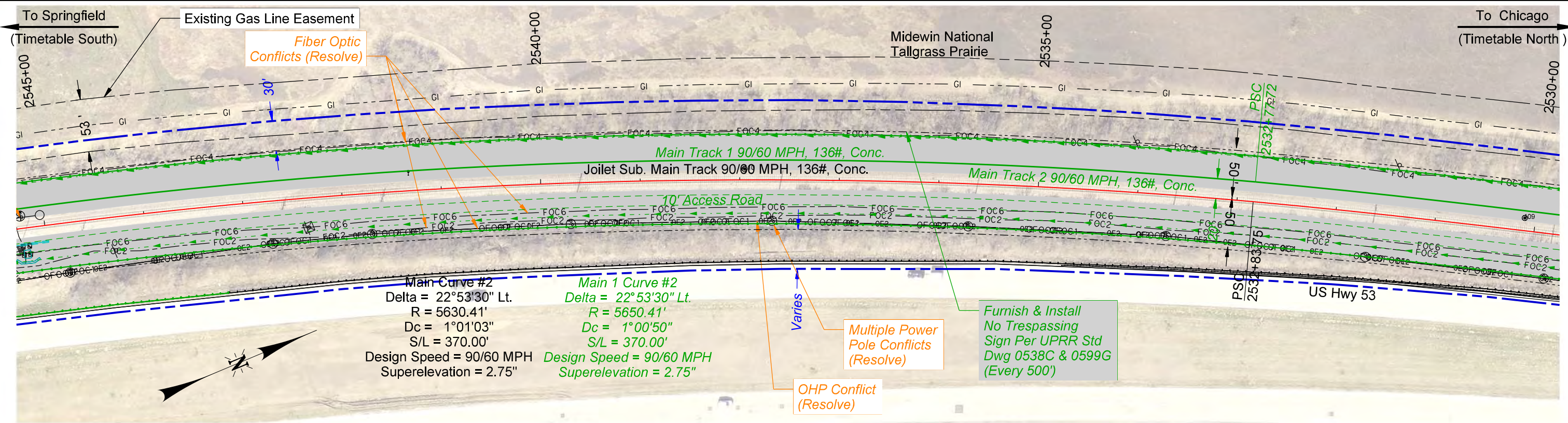
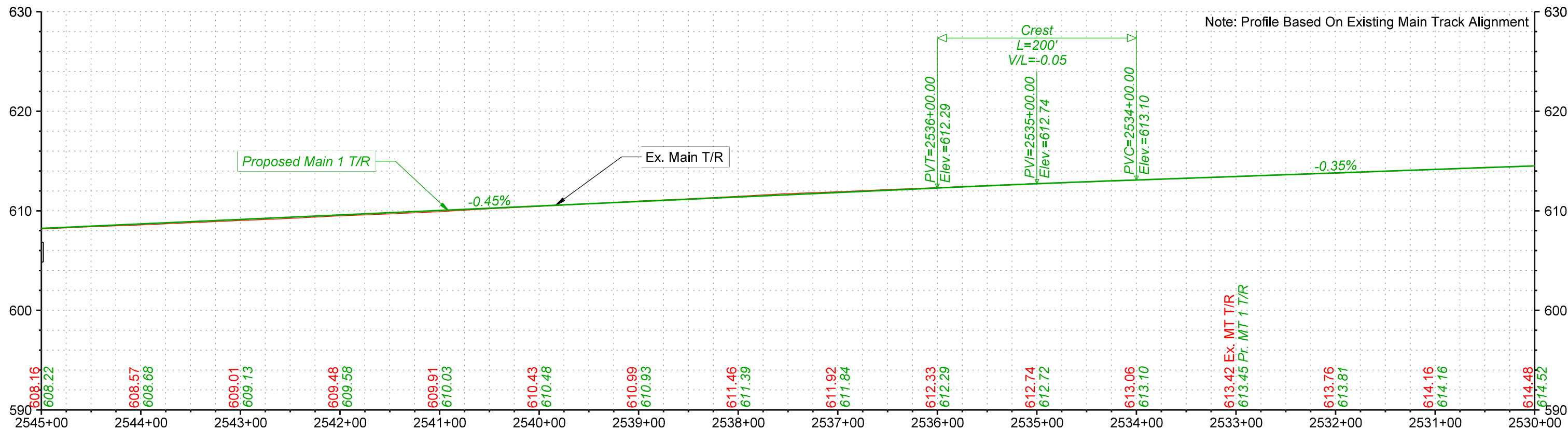


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DATE: 11/22/2024
SHEET NUMBER: P025 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles

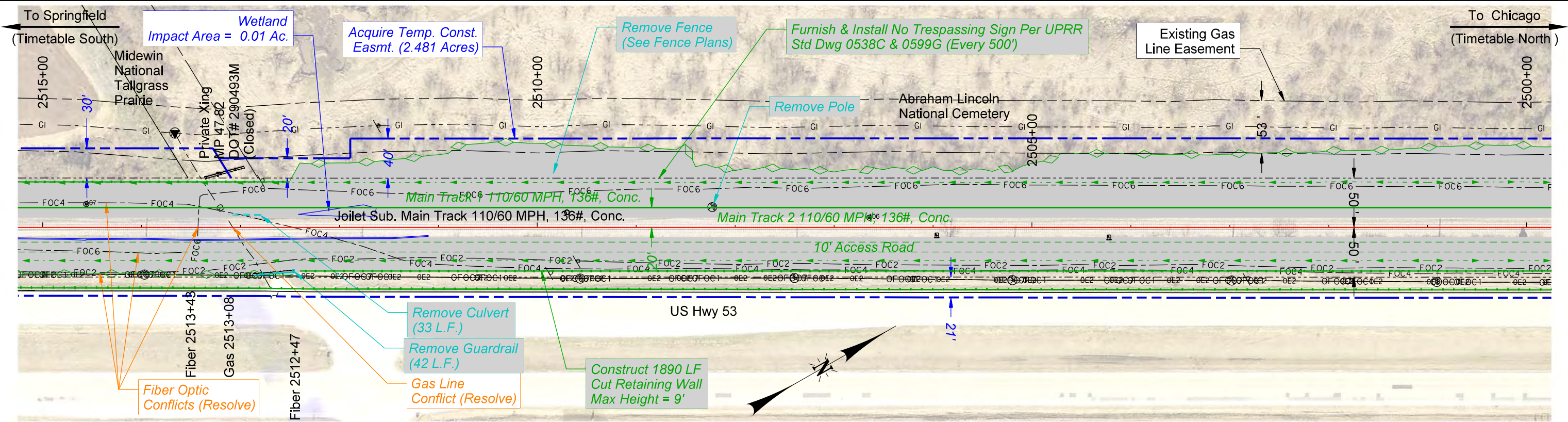
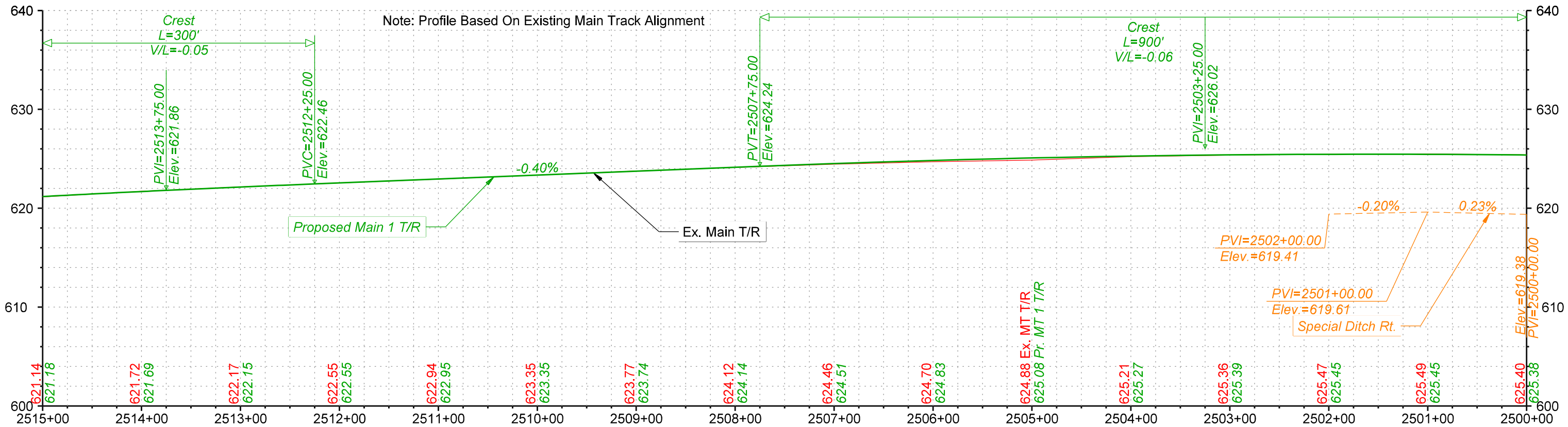


PRELIMINARY

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DRAWN BY: BND	UNION PACIFIC RAILROAD
CHECKED BY: ADK	LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
DATE: 11/22/2024	SHEET TITLE: Track Plan & Profiles
SHEET NUMBER P026 of P040	

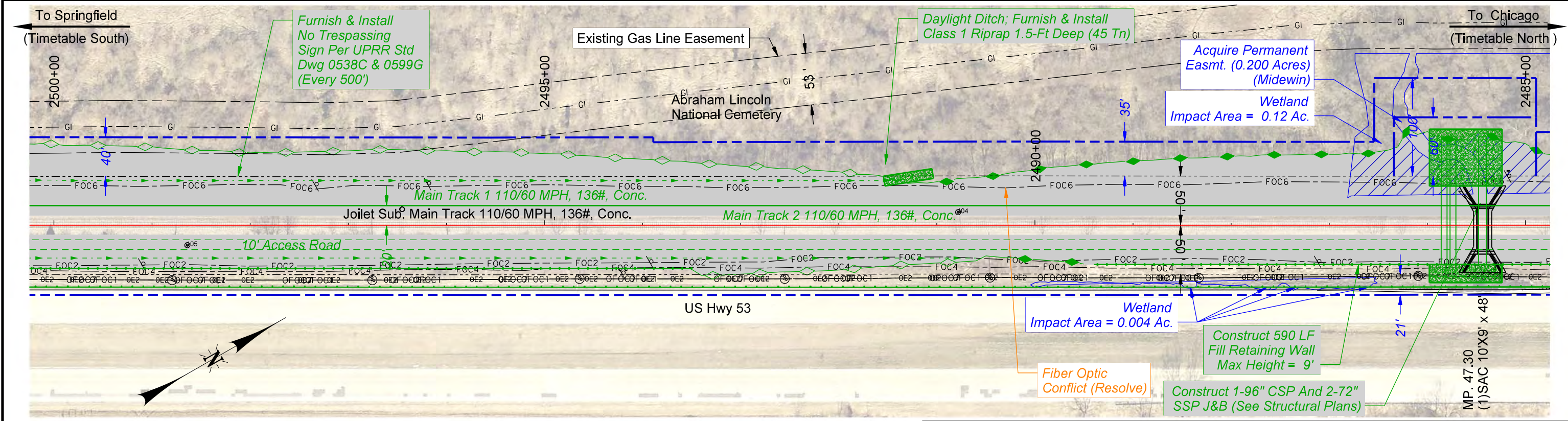
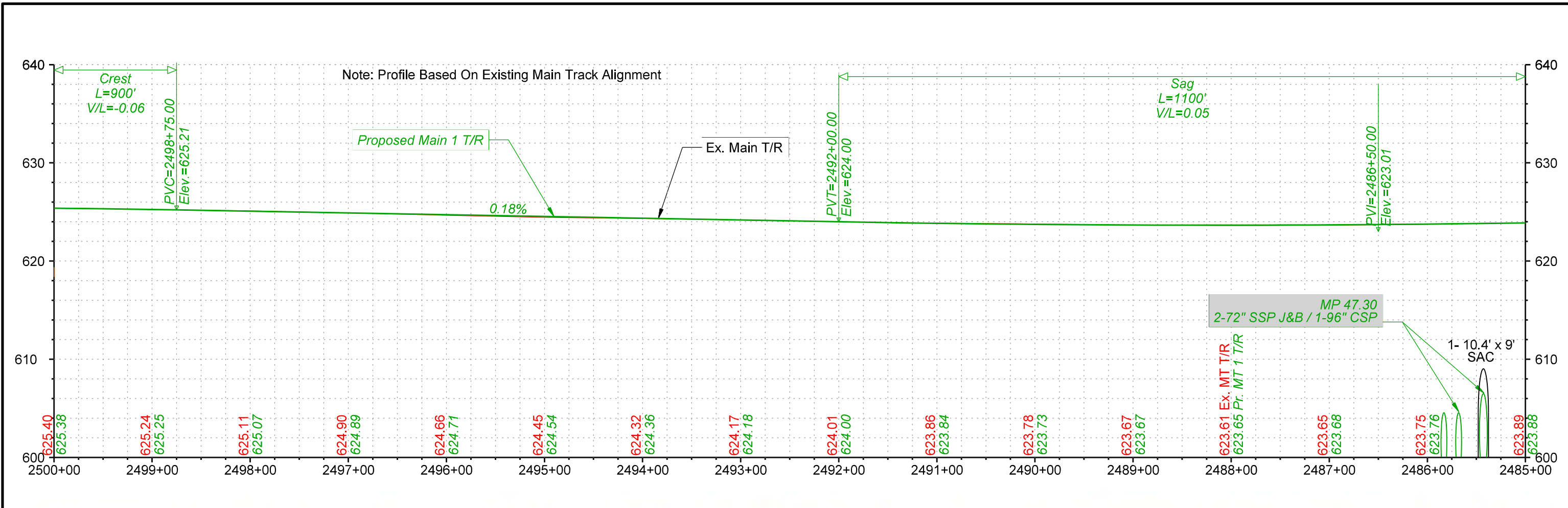


PRELIMINARY

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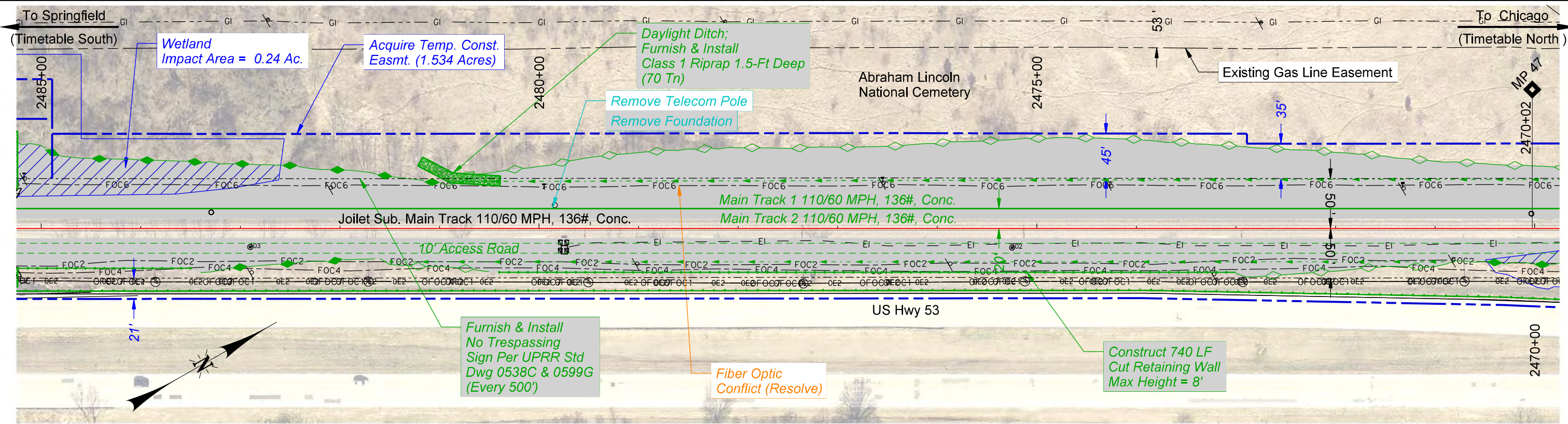
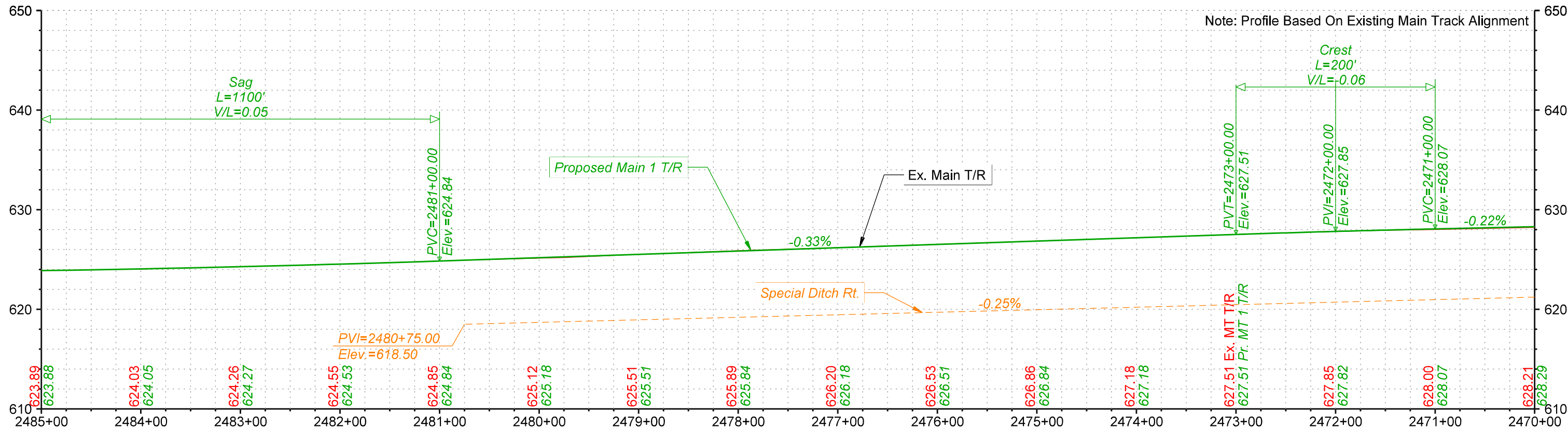
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CHECKED BY: ADK	
DATE: 11/22/2024	
SHEET NUMBER P028 of P040	
SHEET TITLE: Track Plan & Profiles	



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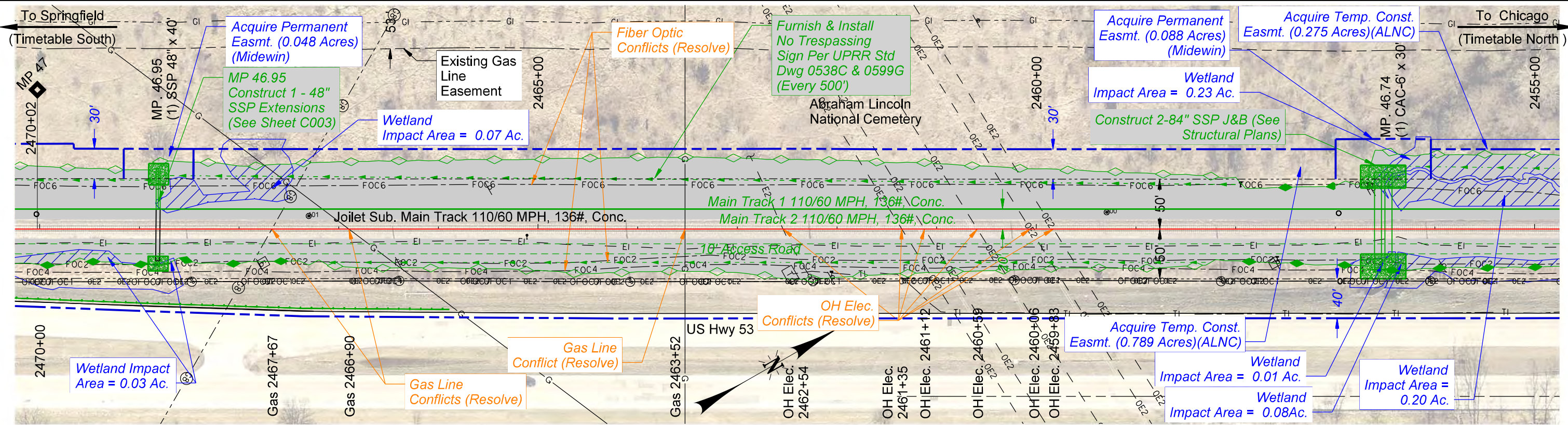
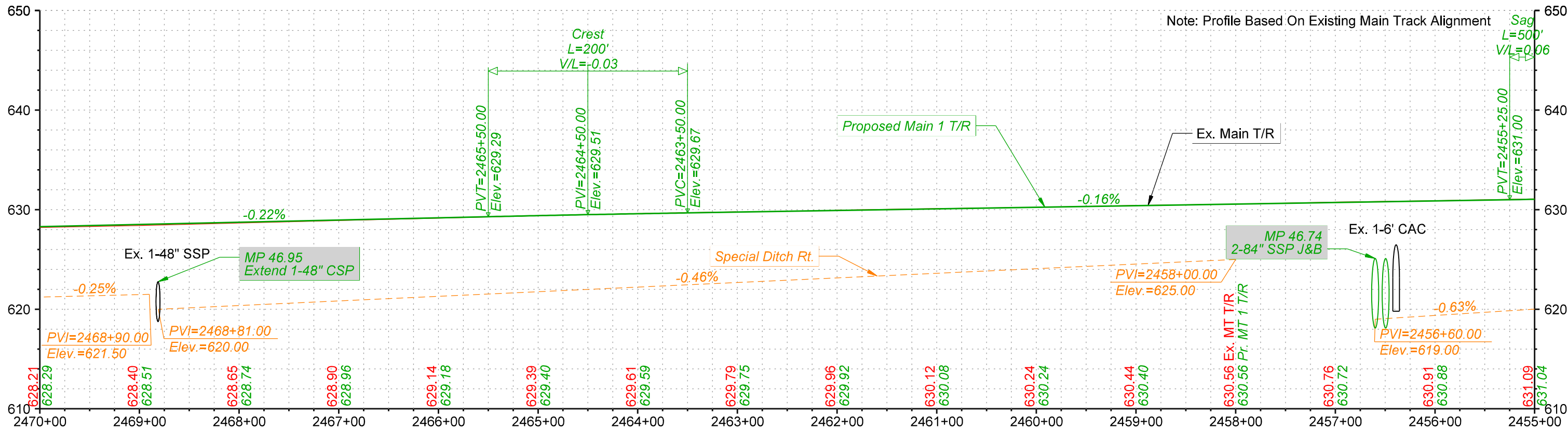
HDR HDR ENGINEERING INC. 1917 S. 6TH ST. OMAHA, NE 68106	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
HNTB HNTB CORPORATION CENTRAL PARK PLAZA NORTH 222 SOUTH 15TH ST, SUITE 247-N OMAHA, NE 68102	UNION PACIFIC
DRAWN BY: BND CHECKED BY: ADK DATE: 11/22/2024 SHEET NUMBER: P029 of P040	SHEET TITLE: Track Plan & Profiles



PRELIMINARY
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CHECKED BY: ADK	
DATE: 11/22/2024	
SHEET NUMBER P030 of P040	
SHEET TITLE: Track Plan & Profiles	



PRELIMINARY

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HDR ENGINEERING INC.
1917 S. 6TH ST.
OMAHA, NE 68106

HNTB CORPORATION
CENTRAL PARK PLAZA NORTH
222 SOUTH 15TH ST., SUITE 247-N
OMAHA, NE 68102

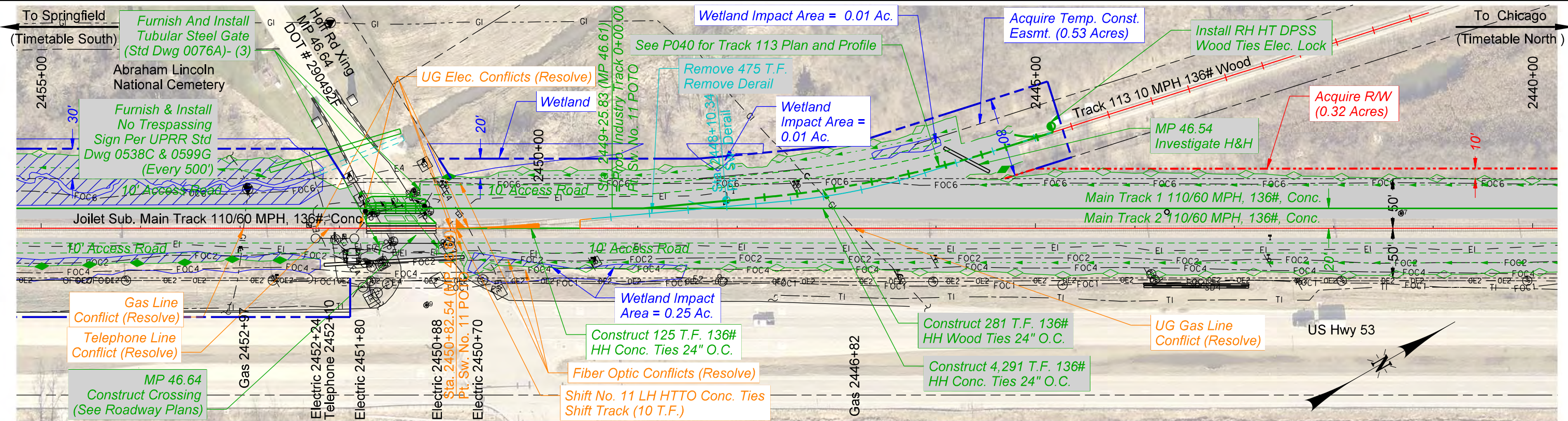
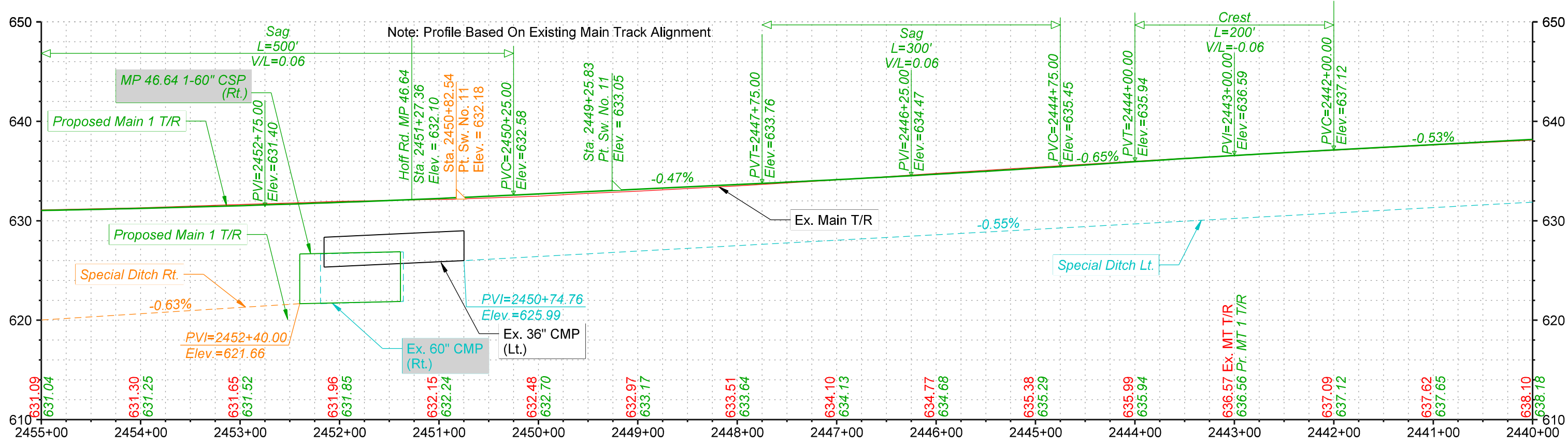


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CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER
P031 of P040

**UNION PACIFIC
RAILROAD**

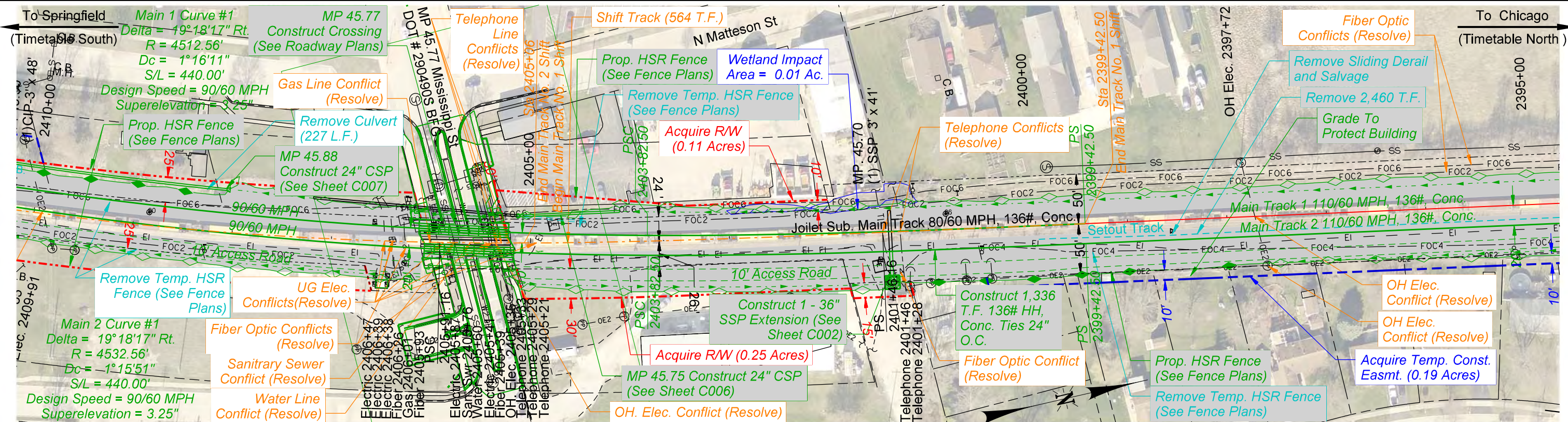
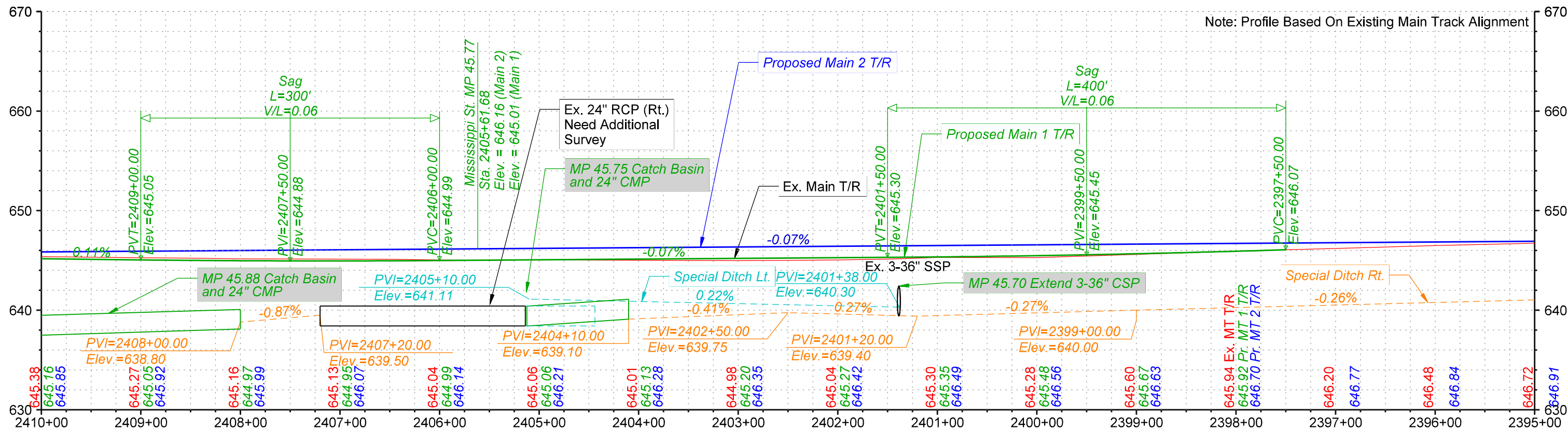
LOCATION & DESCRIPTION:
Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE:
Track Plan & Profiles



PRELIMINARY
NOT FOR CONSTRUCTION 11/22/2024

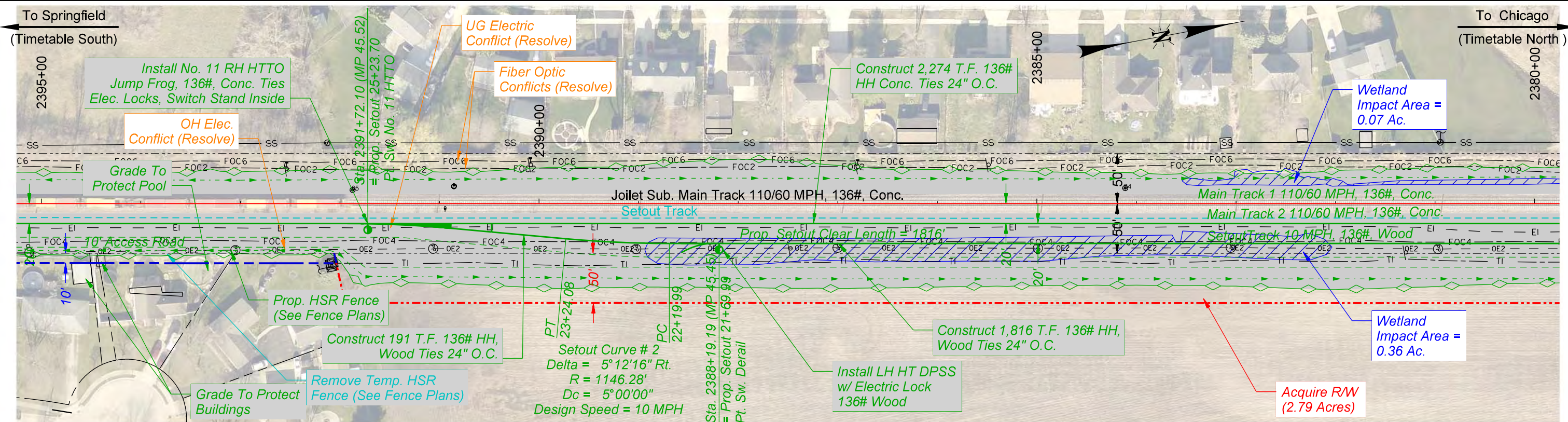
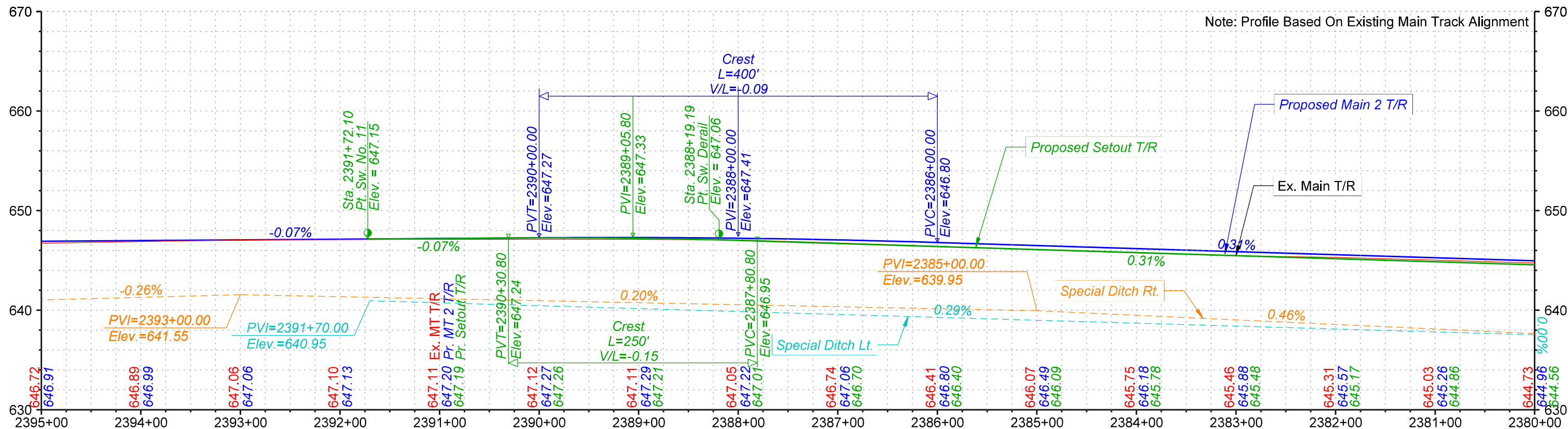
HDR HDR ENGINEERING INC. 1917 S. 6TH ST. OMAHA, NE 68106	HNTB HNTB CORPORATION CENTRAL PARK PLAZA NORTH 222 SOUTH 15TH ST., SUITE 247-N OMAHA, NE 68102	UNION PACIFIC DRAWN BY: BND CHECKED BY: ADK DATE: 11/22/2024 SHEET NUMBER: P032 of P040	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A SHEET TITLE: Track Plan & Profiles
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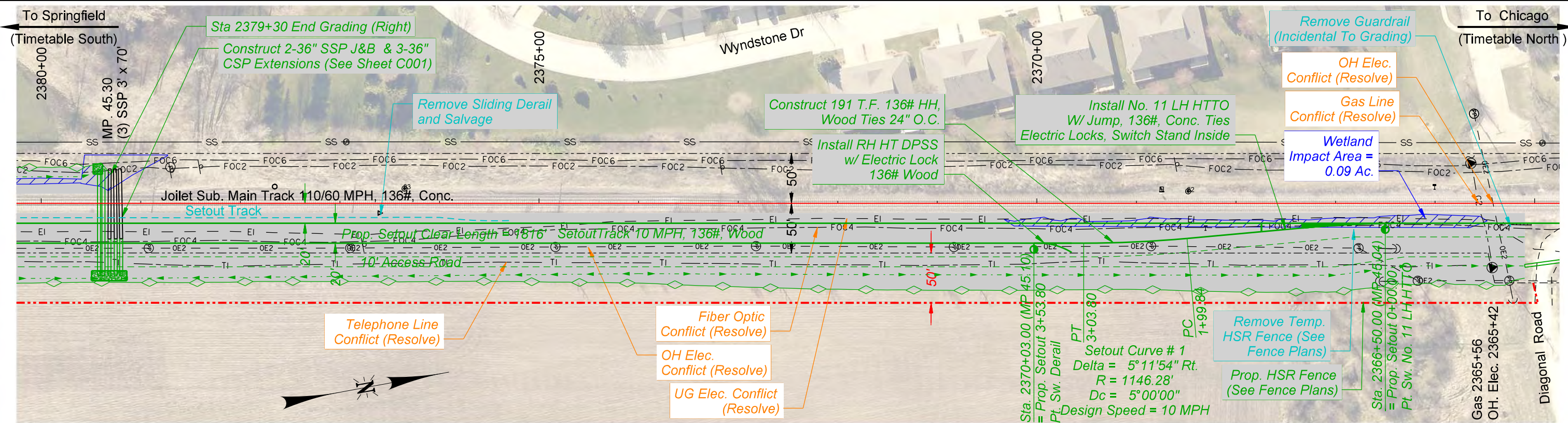
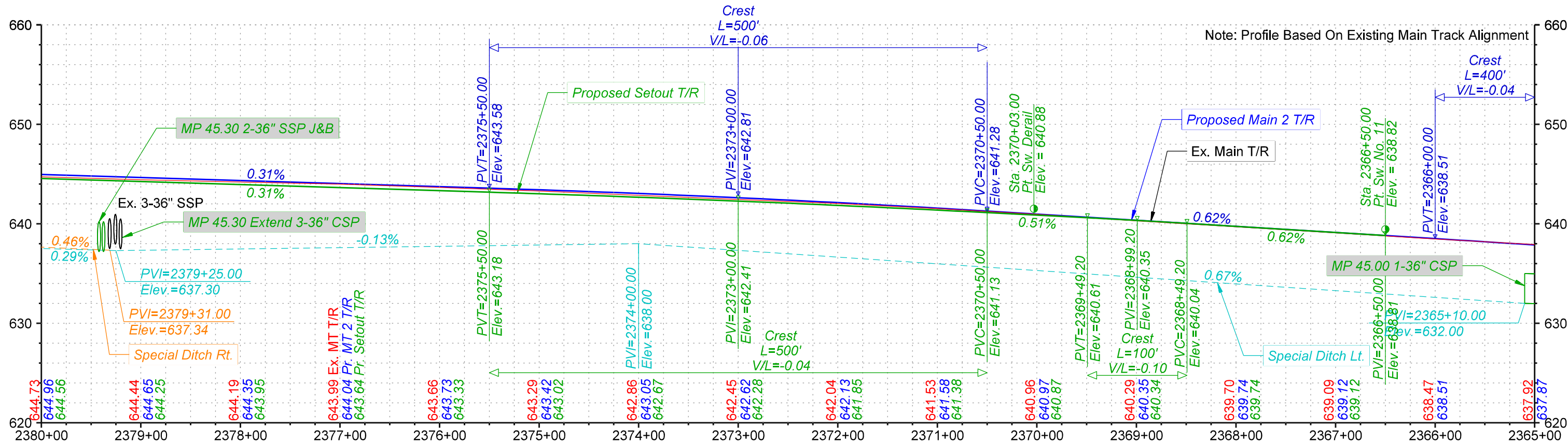
HDR HDR ENGINEERING INC. 1917 S. 6TH ST. OMAHA, NE 68106	HNTB HNTB CORPORATION CENTRAL PARK PLAZA NORTH 222 SOUTH 15TH ST., SUITE 247-N OMAHA, NE 68102	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
DRAWN BY: BND CHECKED BY: ADK DATE: 11/22/2024 SHEET NUMBER: P035 of P040		SHEET TITLE: Track Plan & Profiles



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DRAWN BY: BND	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County Joliet Subdivision MP 44.60 to MP 55.50 Tier 8 - 2nd Main Track - Alternative 2A
CHECKED BY: ADK	
DATE: 11/22/2024	
SHEET NUMBER P036 of P040	
SHEET TITLE: Track Plan & Profiles	



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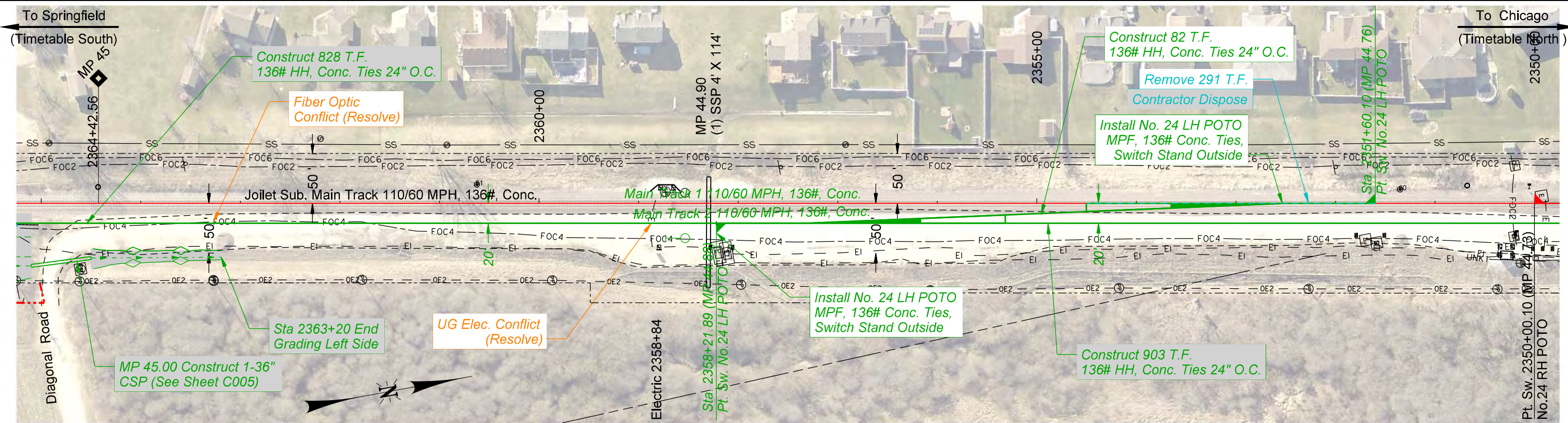
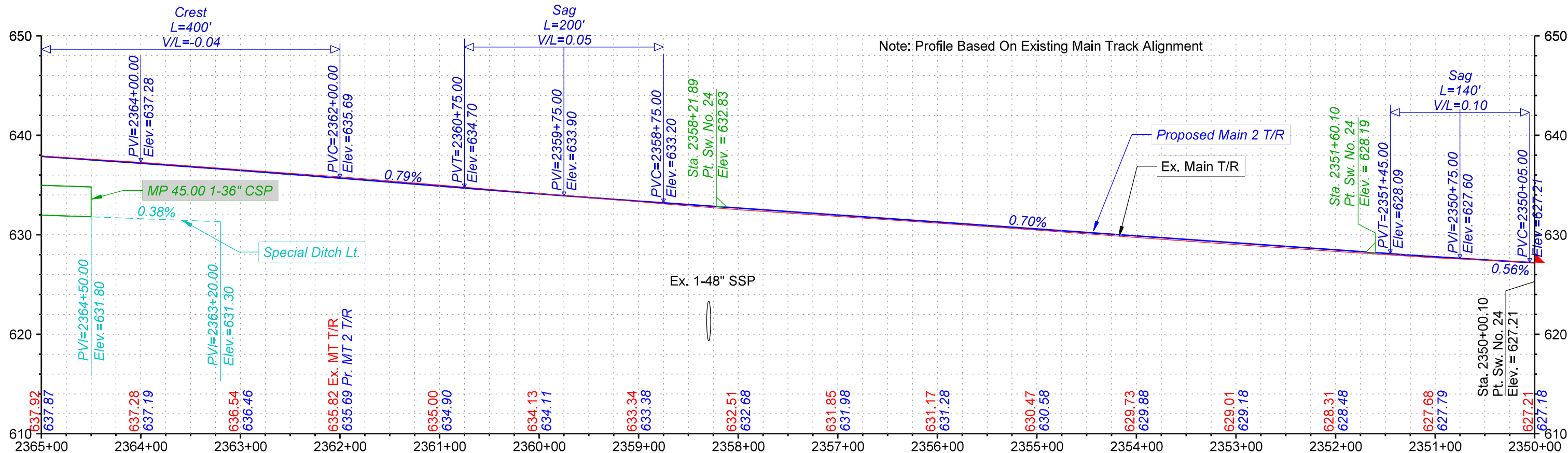


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DATE: 11/22/2024
SHEET NUMBER: P037 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles



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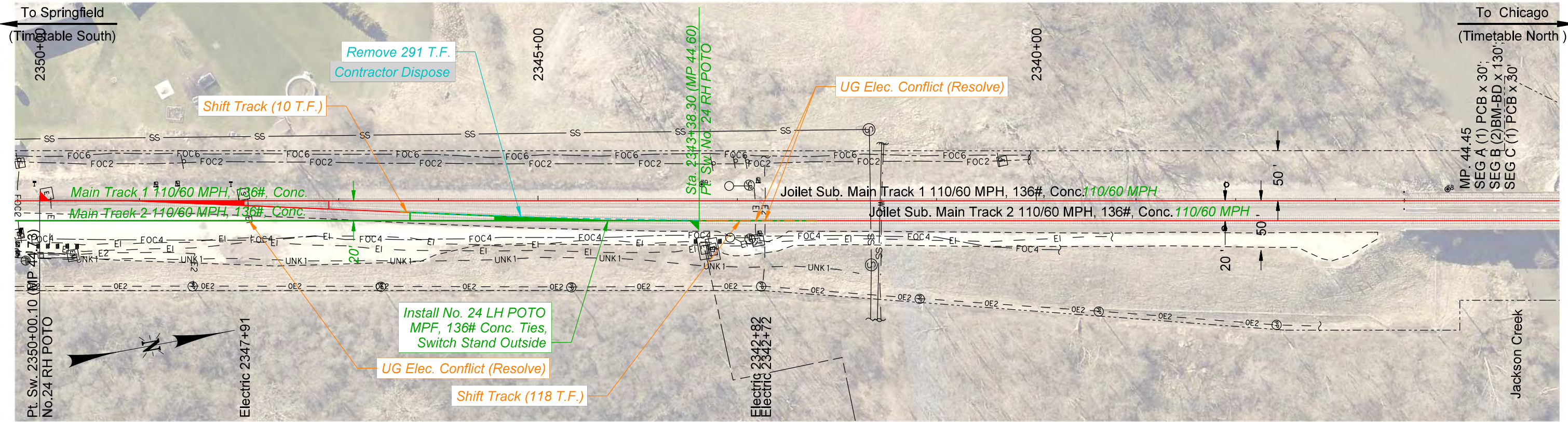
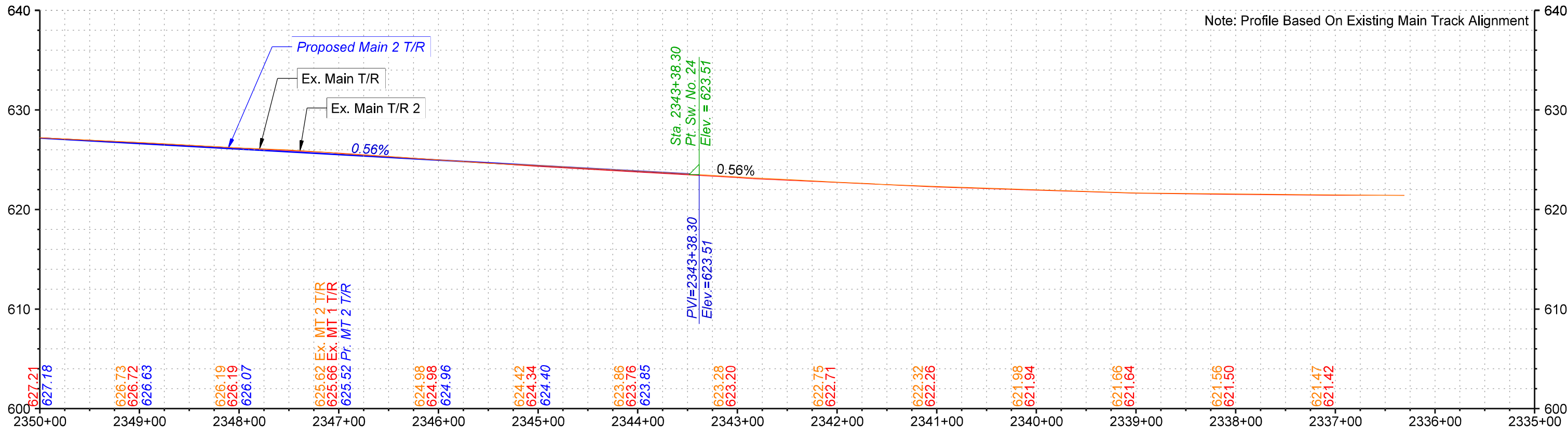
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DATE: 11/22/2024
SHEET NUMBER
P038 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles

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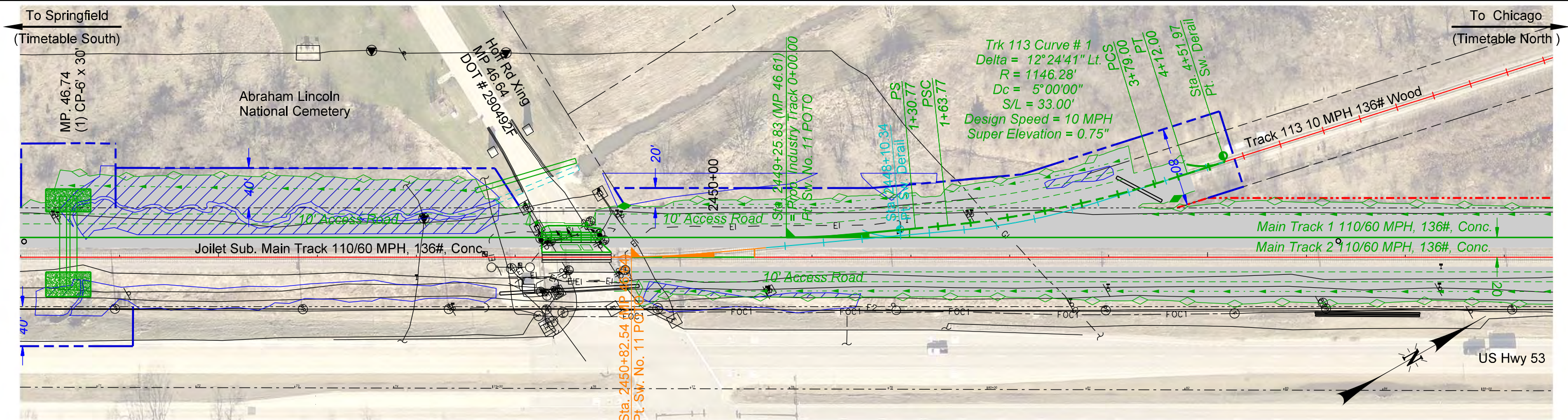
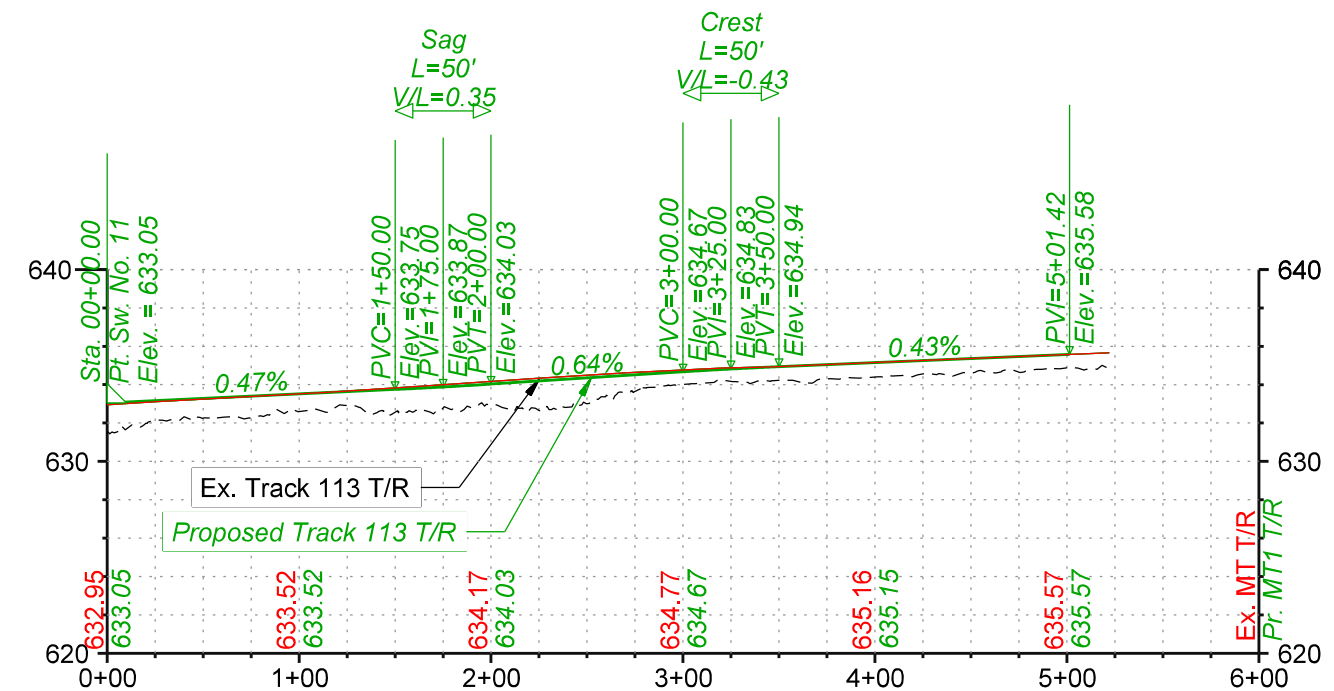


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CHECKED BY: ADK
DATE: 11/22/2024
SHEET NUMBER
P039 of P040

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION: Elwood, IL to Braidwood, IL - Will County
Joliet Subdivision MP 44.60 to MP 55.50
Tier 8 - 2nd Main Track - Alternative 2A

SHEET TITLE: Track Plan & Profiles



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SHEET NUMBER	P040 of P040

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