

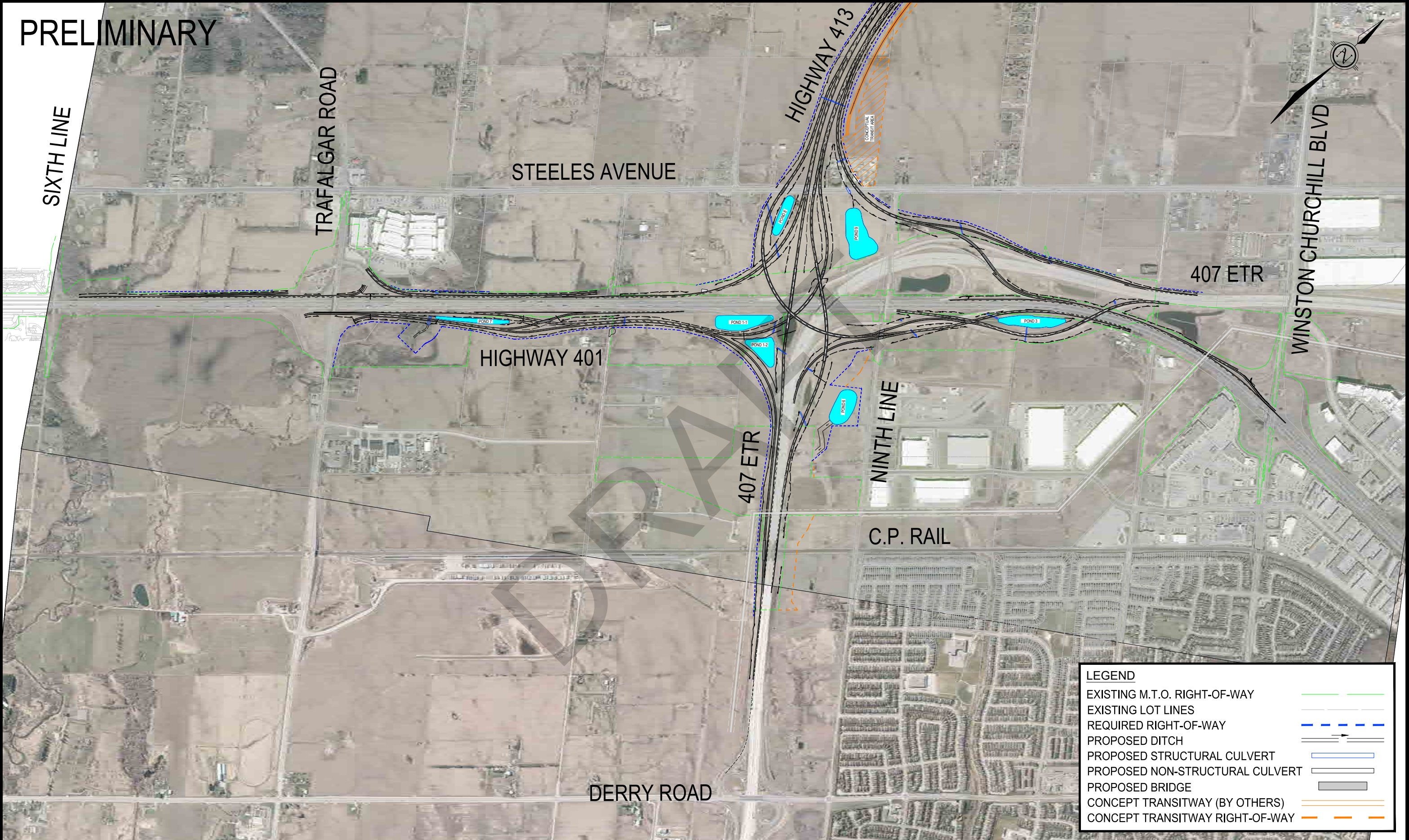
Appendix B

Preliminary Design Plans

DRAFT



PRELIMINARY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	— — — — —
EXISTING LOT LINES	— — — — —
REQUIRED RIGHT-OF-WAY	— — — — —
PROPOSED DITCH	— — — — —
PROPOSED STRUCTURAL CULVERT	— — — — —
PROPOSED NON-STRUCTURAL CULVERT	— — — — —
PROPOSED BRIDGE	— — — — —
CONCEPT TRANSITWAY (BY OTHERS)	— — — — —
CONCEPT TRANSITWAY RIGHT-OF-WAY	— — — — —

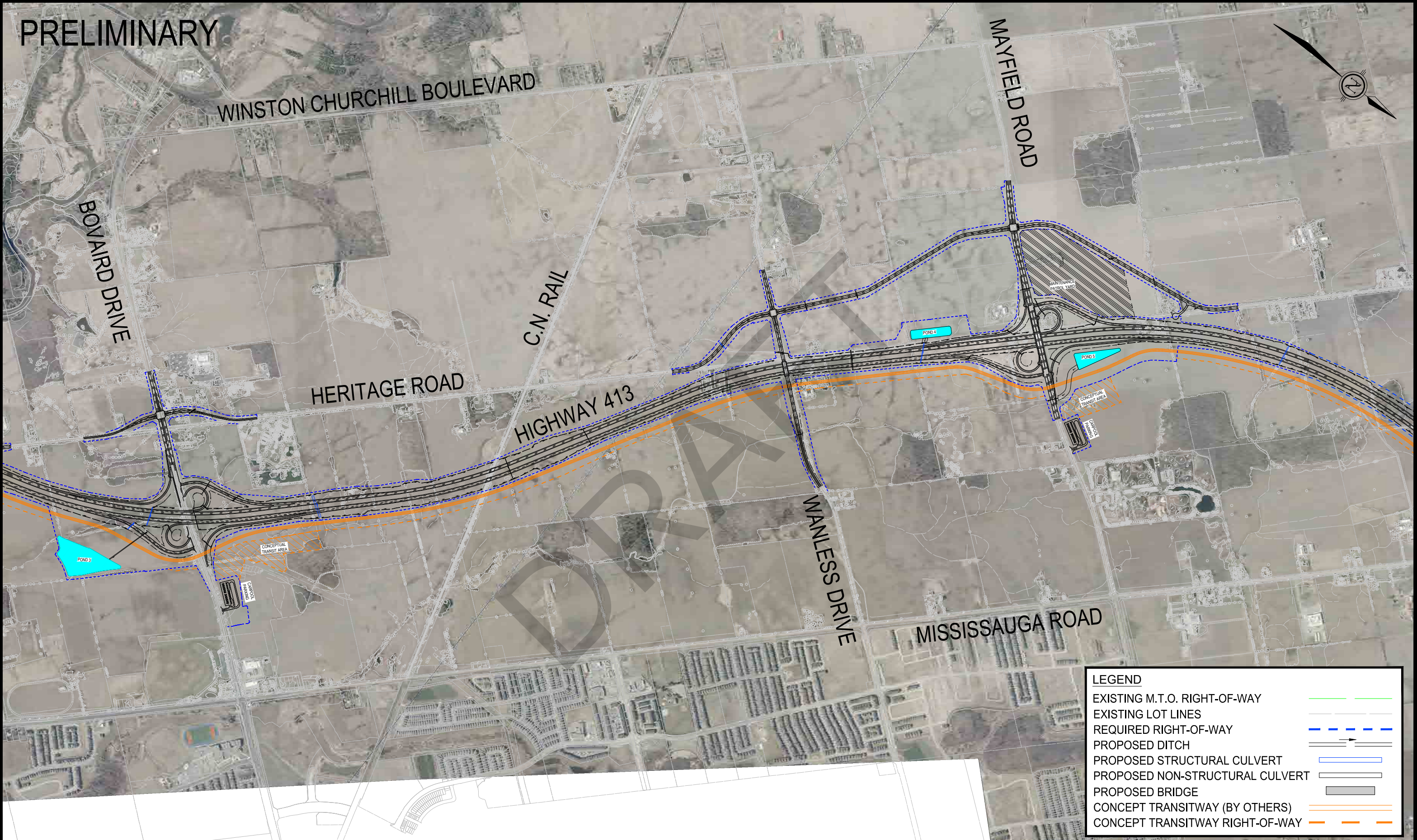
PRELIMINARY



LEGEND

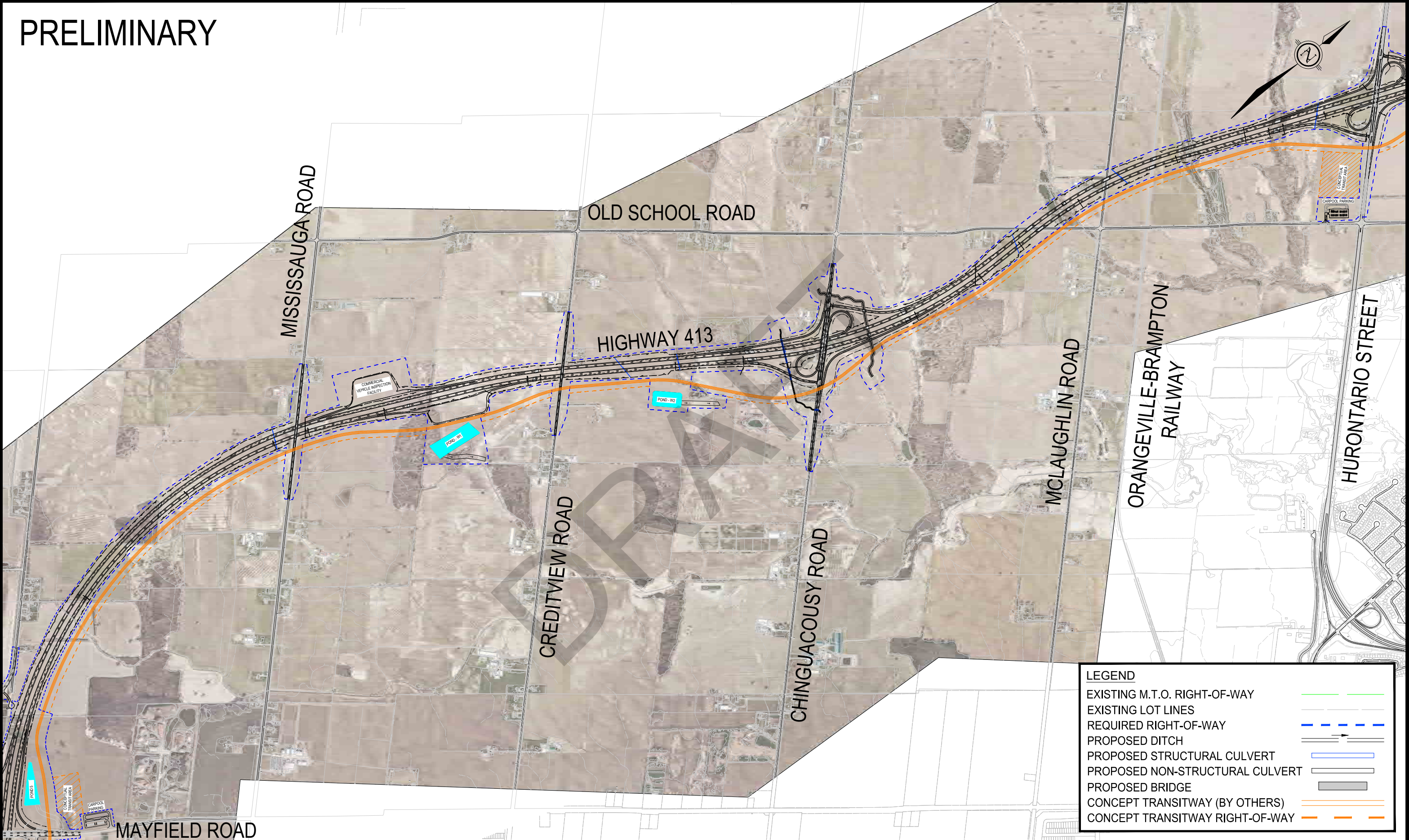
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

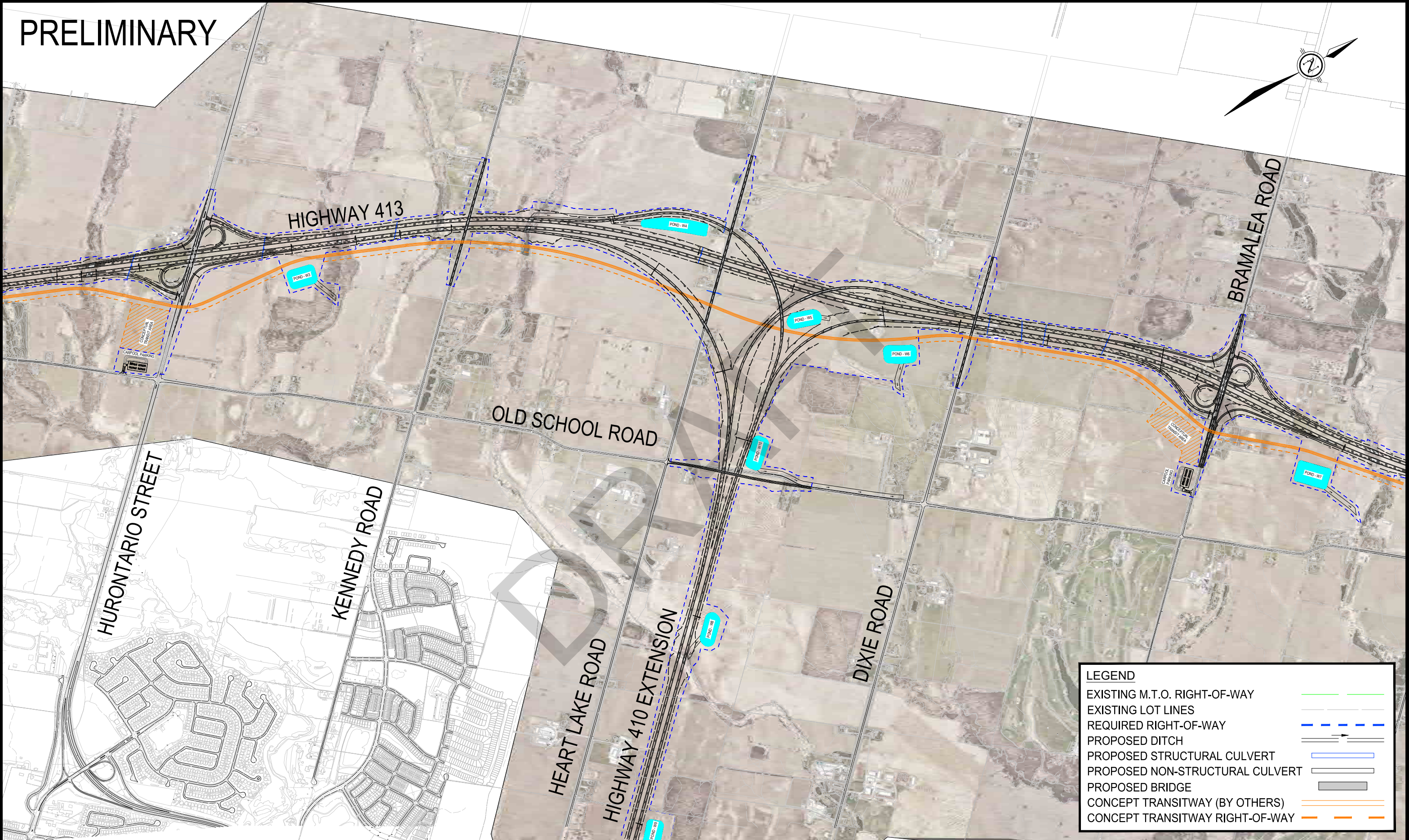
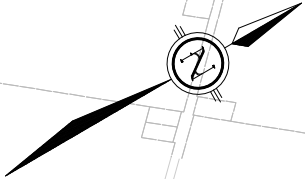
PRELIMINARY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

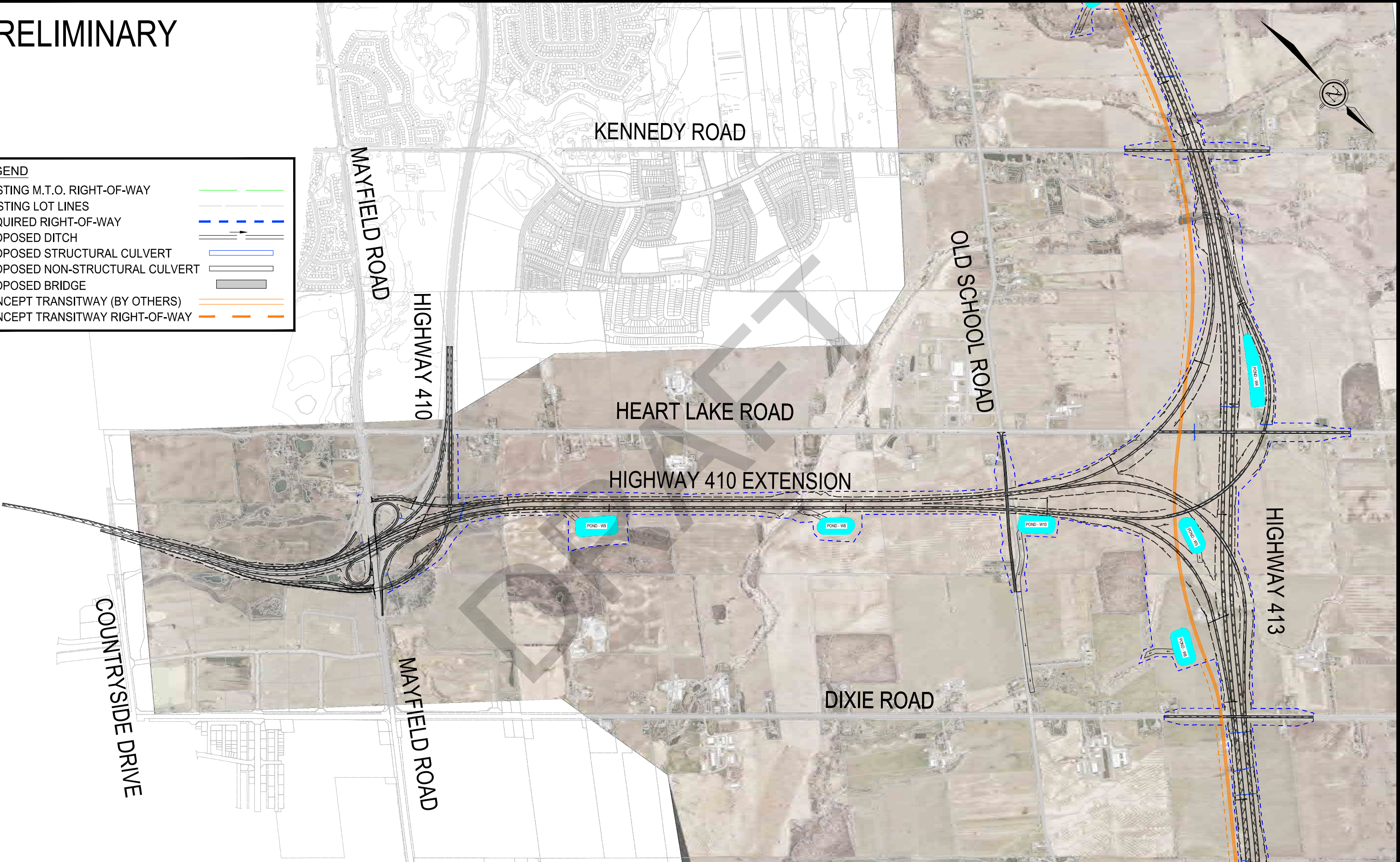
PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

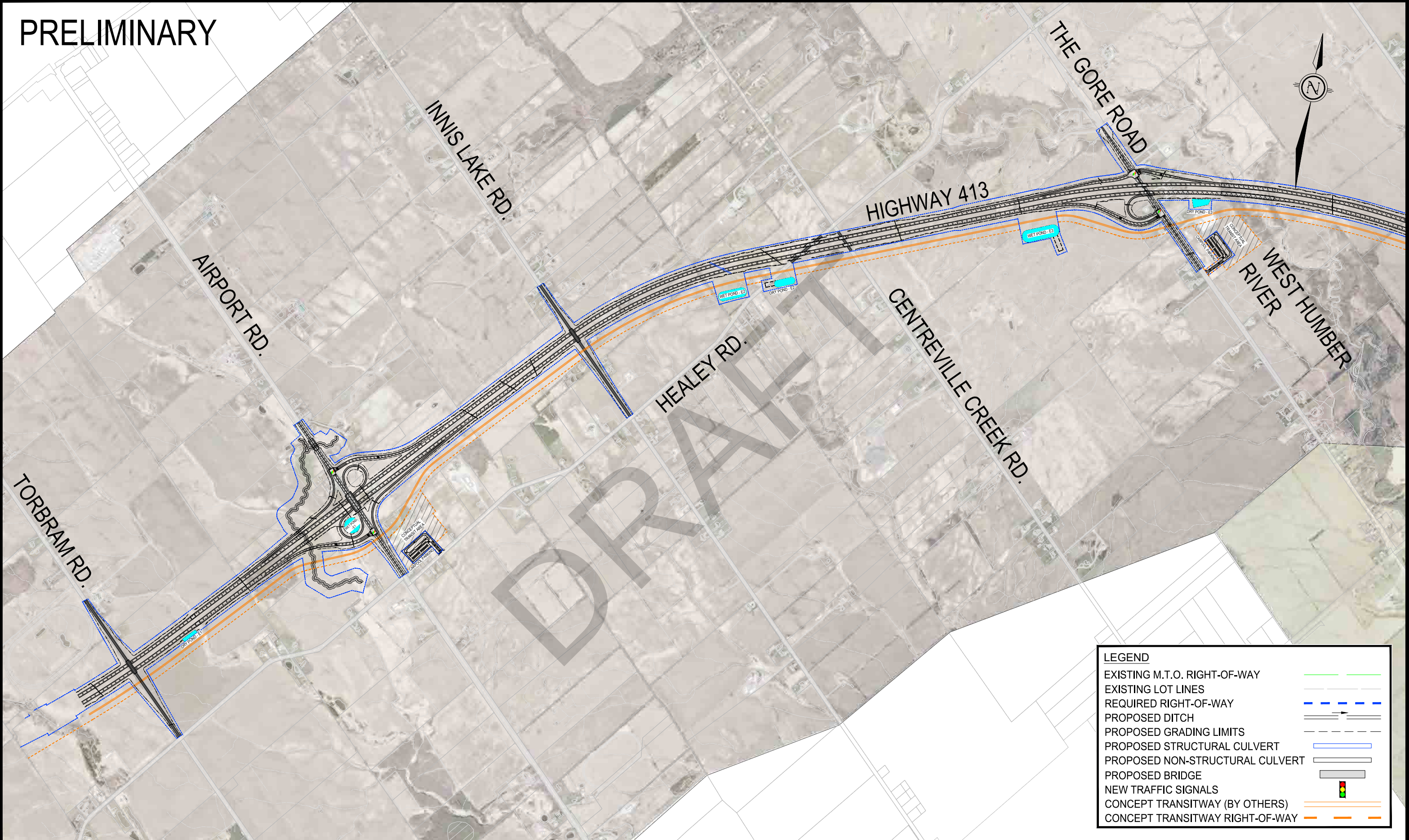
PROPOSED BRIDGE

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



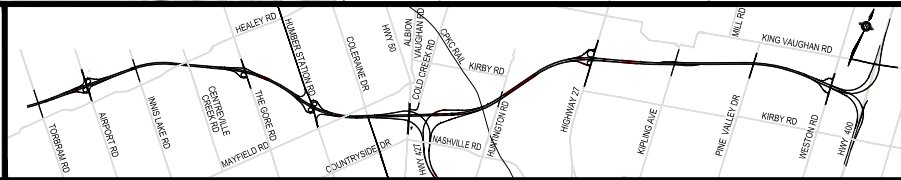
PRELIMINARY



DRAFT

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



Preliminary Design
Segment 'E' - Torbram Road to
The Gore Road

N.T.S

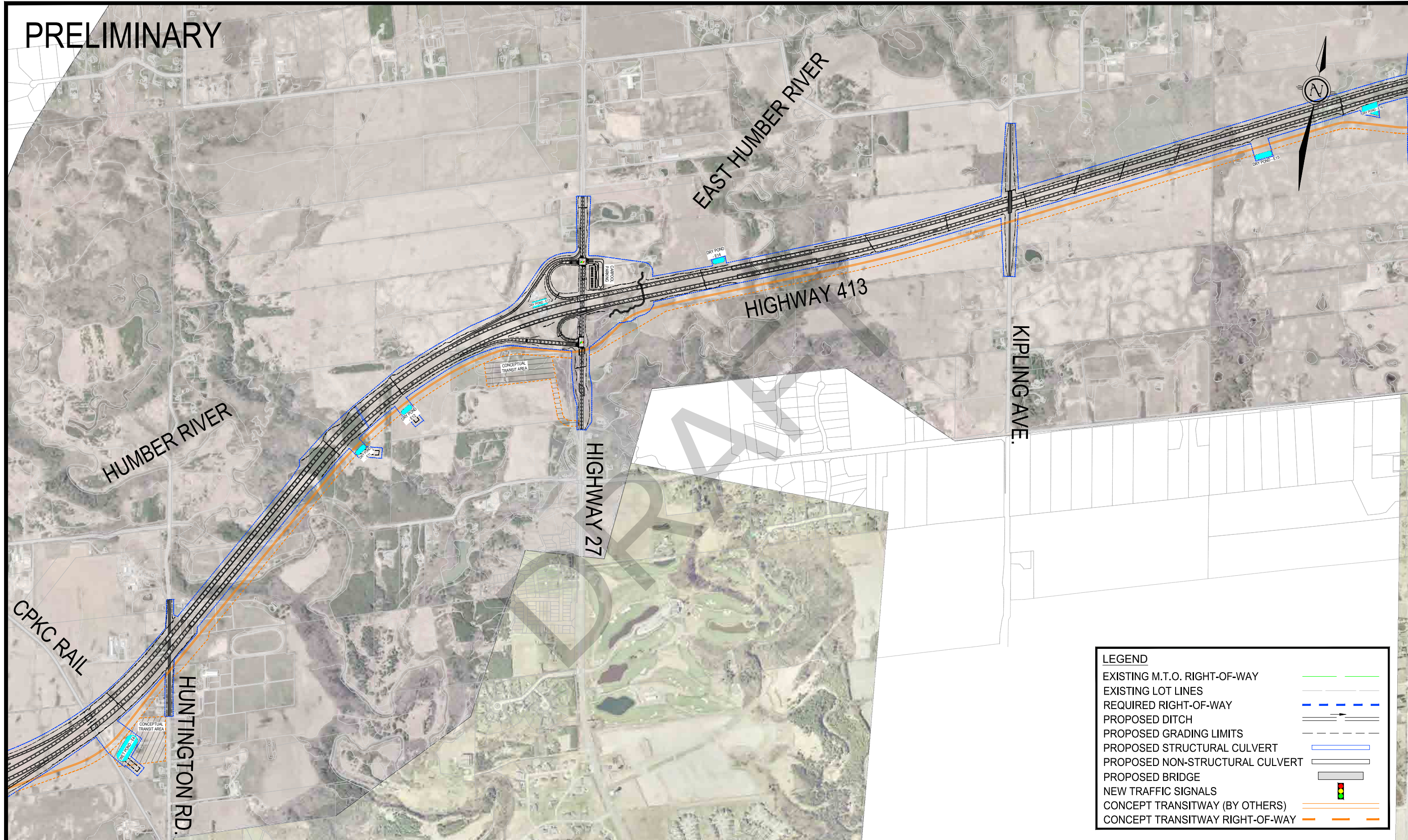
PLATE
RF-E01

PRELIMINARY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

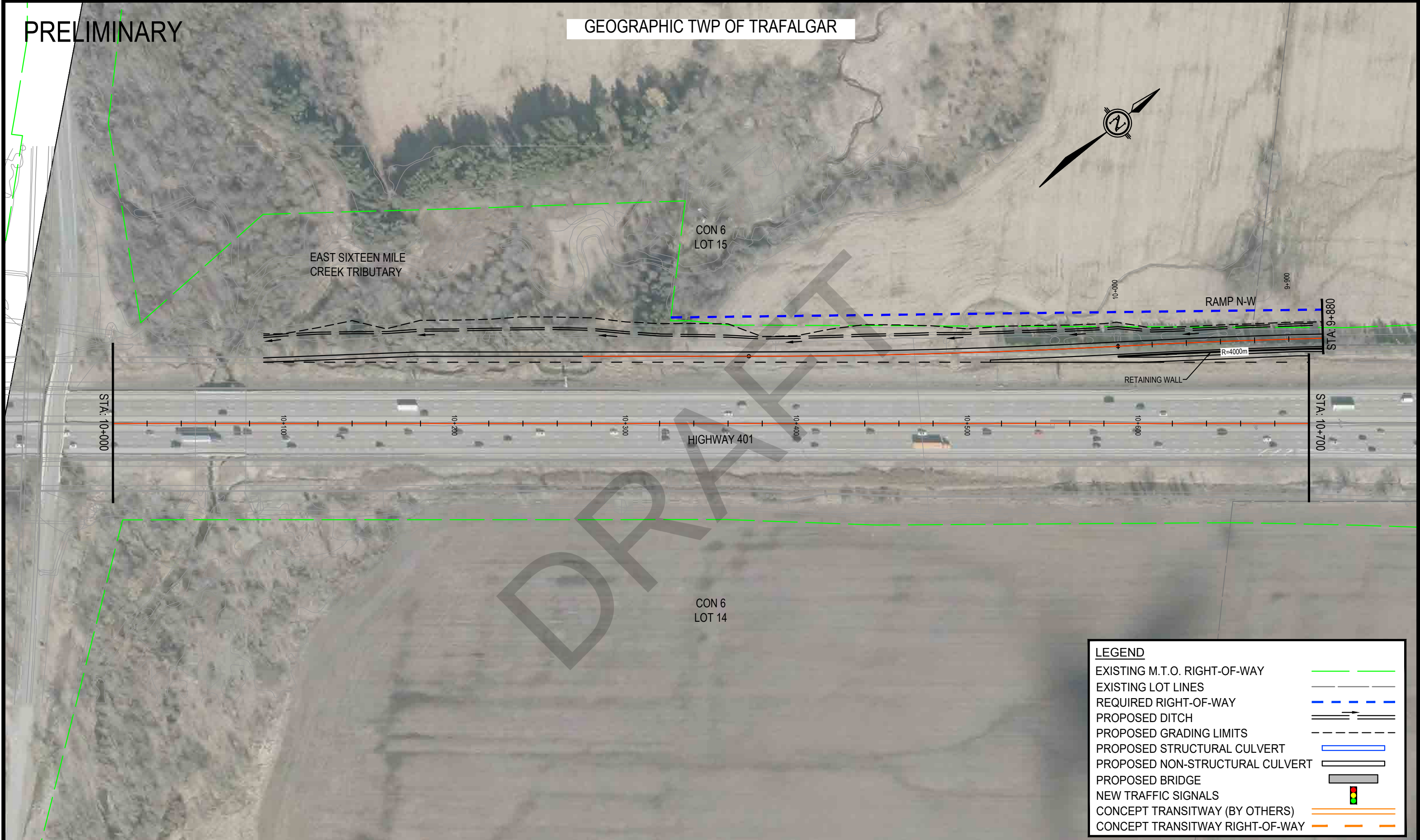
PRELIMINARY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

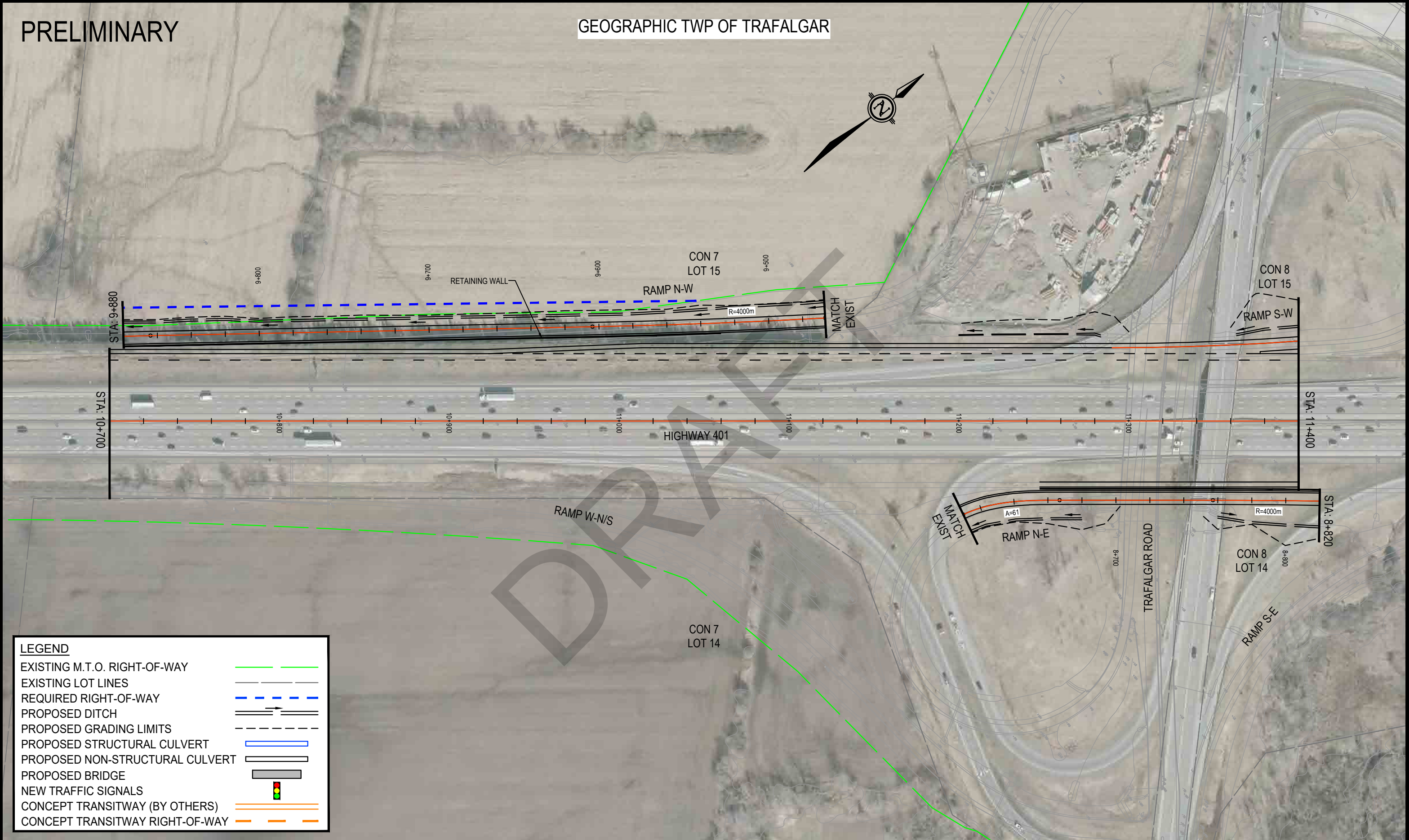
GEOGRAPHIC TWP OF TRAFALGAR



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

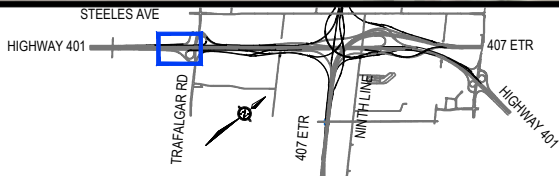
GEOGRAPHIC TWP OF TRAFALGAR



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'A'

PRELIMINARY DESIGN PLAN
HIGHWAY 401
STATION 10+700 TO STATION 11+400

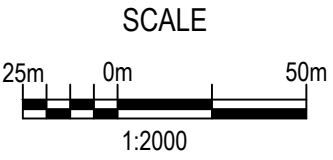
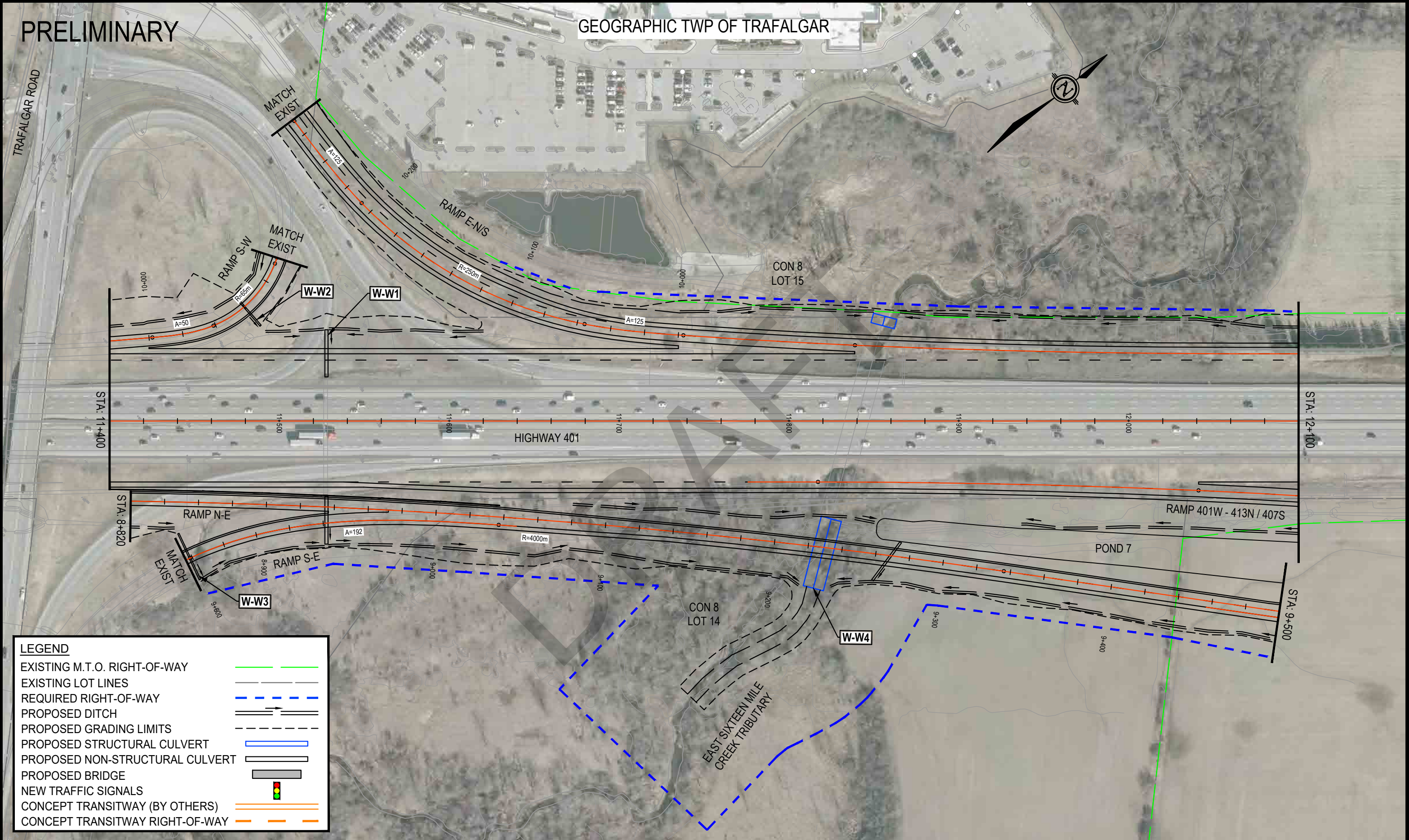


PLATE
A2

PRELIMINARY

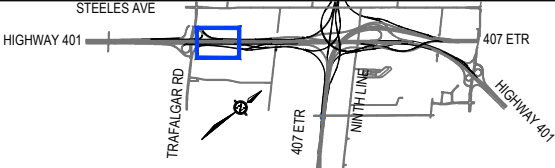
GEOGRAPHIC TWP OF TRAFALGAR



LEGEND

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EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'A'

PRELIMINARY DESIGN PLAN
HIGHWAY 401
STATION 11+400 TO STATION 12+100

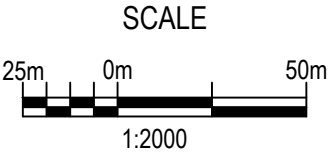


PLATE
A3

PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

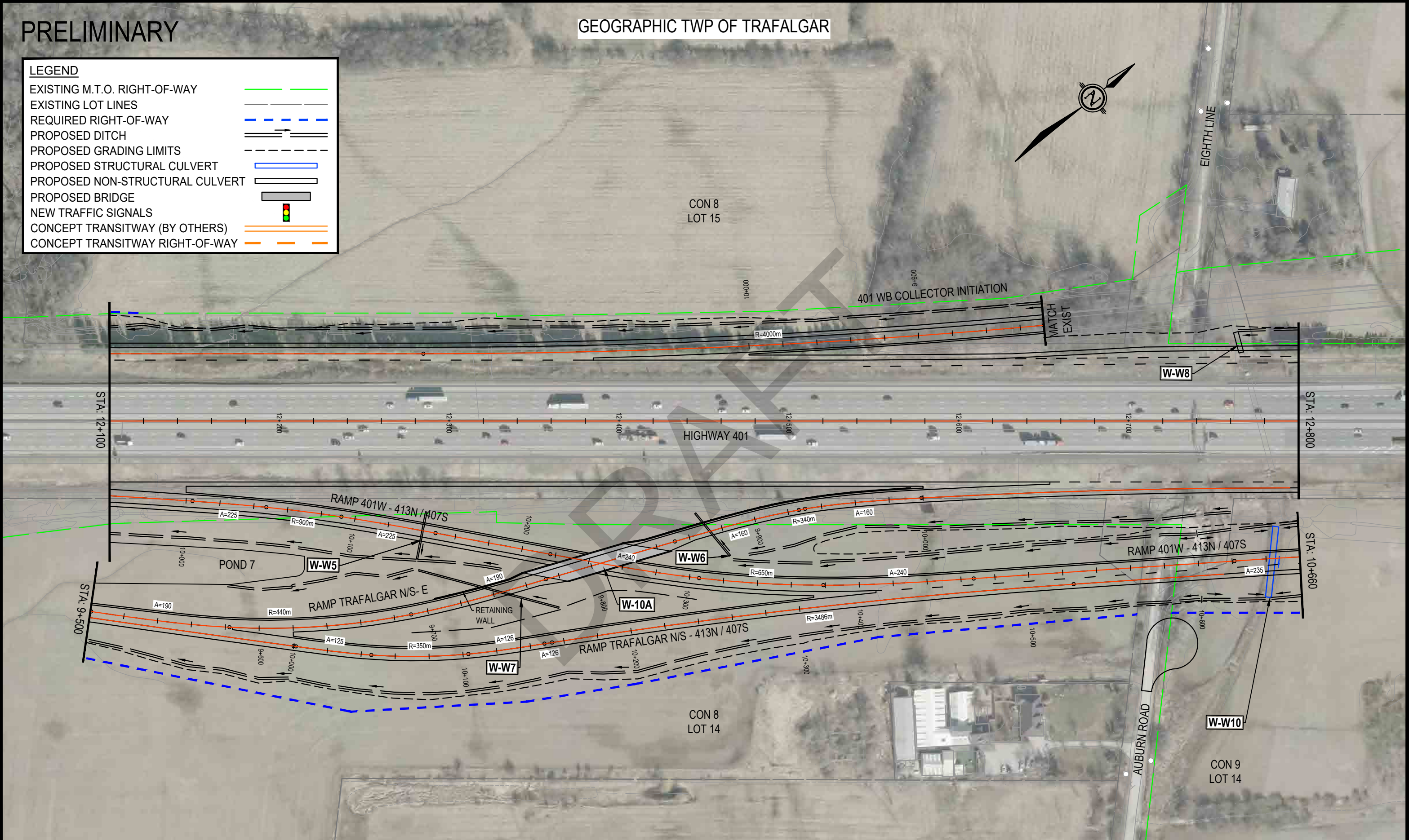
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



WSP

AECOM

Ontario

Ministry of Transportation

HIGHWAY 413

PRELIMINARY DESIGN

G.W.P. 13-20001

STEELES AVE

HIGHWAY 401

TRAFALGAR RD

407 ETR

NINTH LINE

HIGHWAY 401

SEGMENT 'A'

PRELIMINARY DESIGN PLAN

HIGHWAY 401

STATION 12+100 TO STATION 12+800

SCALE

25m 0m 50m

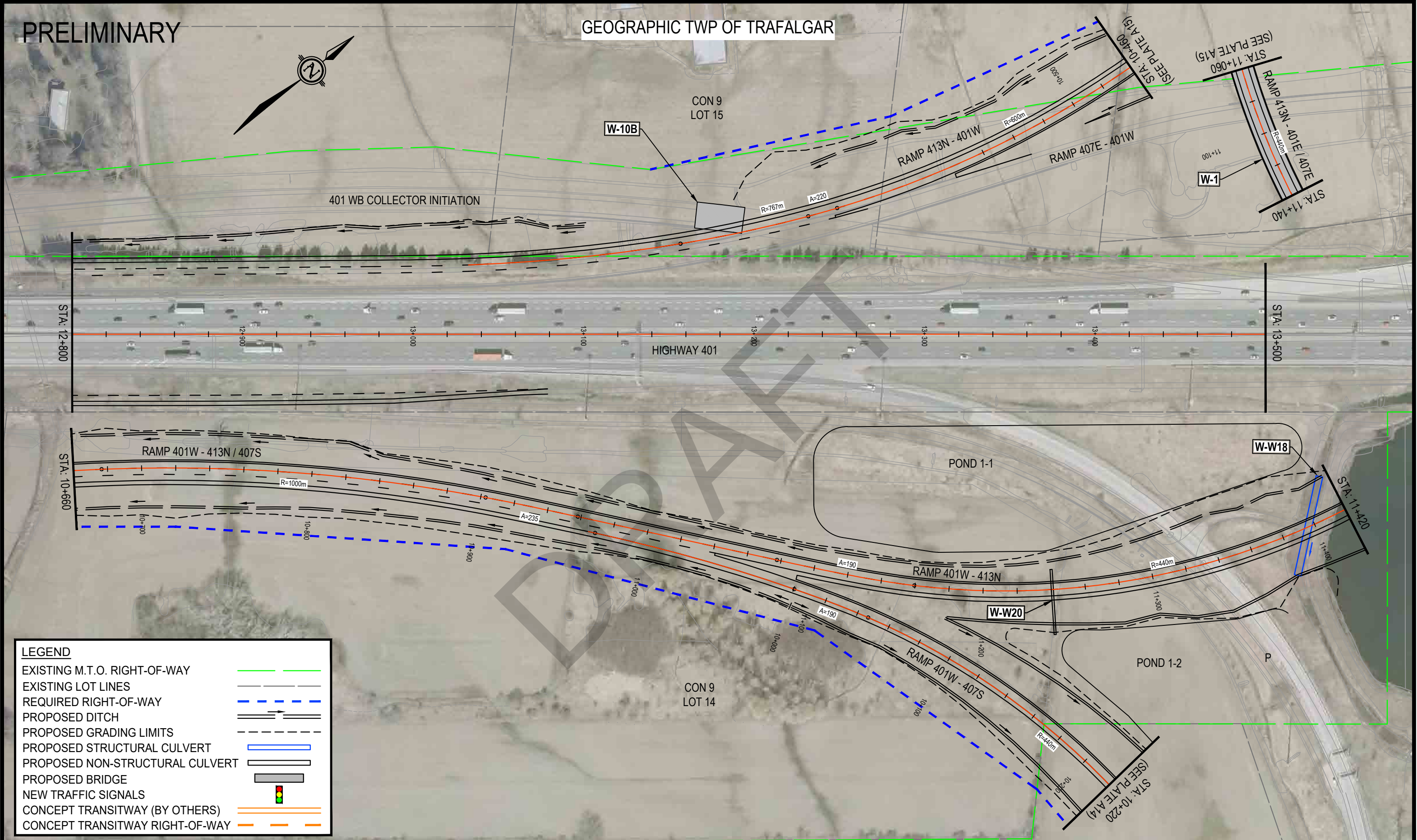
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PLATE

A4

PRELIMINARY

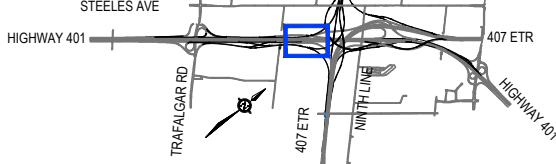
GEOGRAPHIC TWP OF TRAFALGAR



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	—
EXISTING LOT LINES	—
REQUIRED RIGHT-OF-WAY	---
PROPOSED DITCH	—+—
PROPOSED GRADING LIMITS	---
PROPOSED STRUCTURAL CULVERT	—
PROPOSED NON-STRUCTURAL CULVERT	—
PROPOSED BRIDGE	—
NEW TRAFFIC SIGNALS	—
CONCEPT TRANSITWAY (BY OTHERS)	---
CONCEPT TRANSITWAY RIGHT-OF-WAY	---

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'A'

PRELIMINARY DESIGN PLAN
HIGHWAY 401
STATION 12+800 TO STATION 13+500

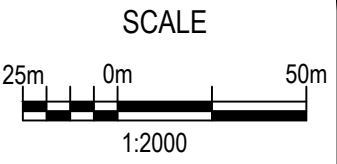


PLATE
A5

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

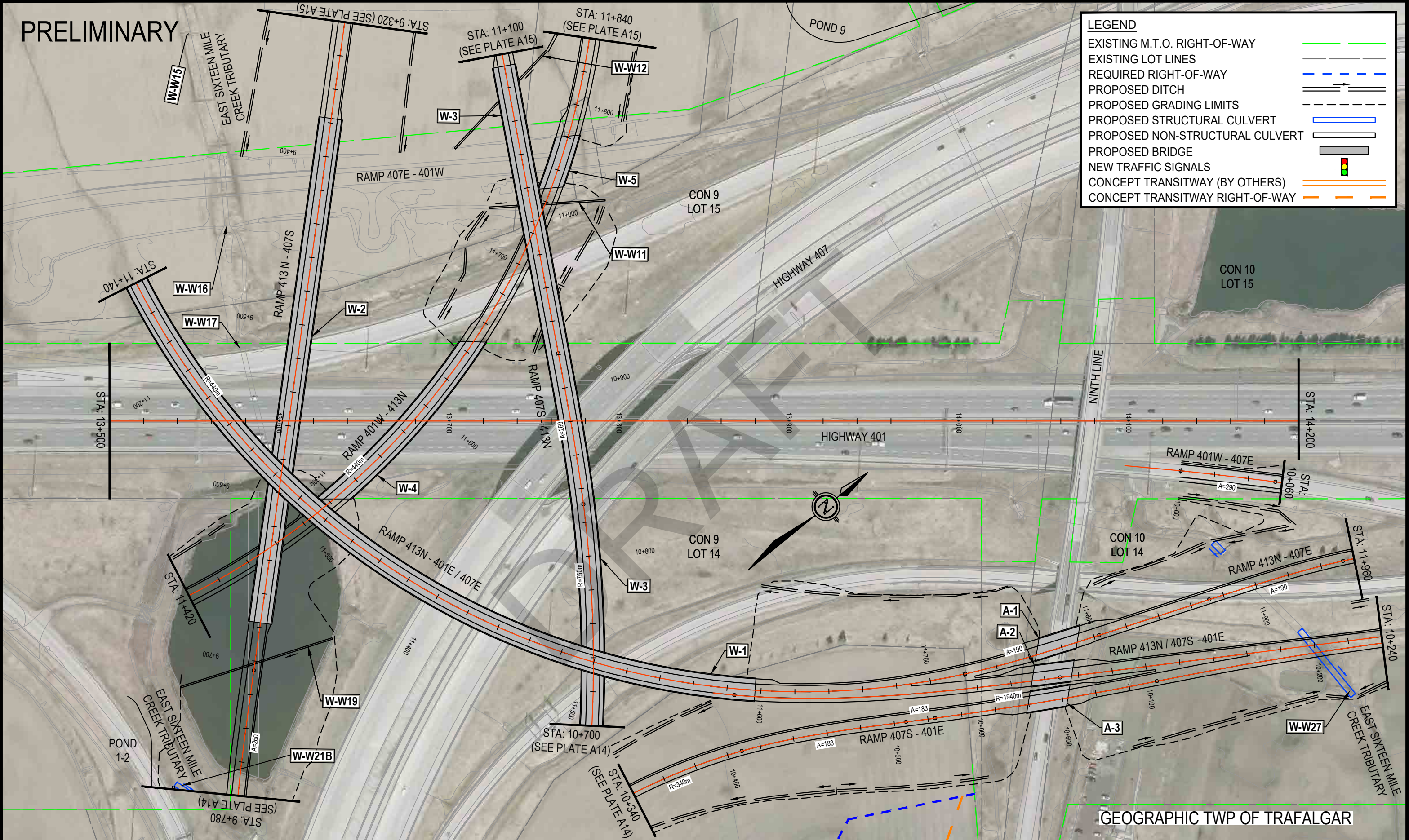
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

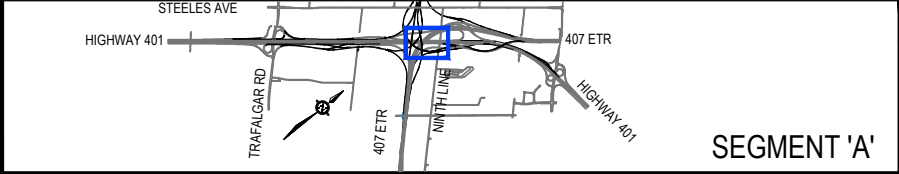
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 401
STATION 13+500 TO STATION 14+200

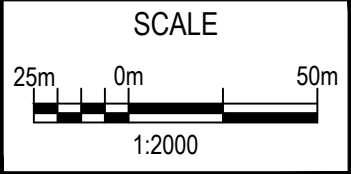


PLATE
A6

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

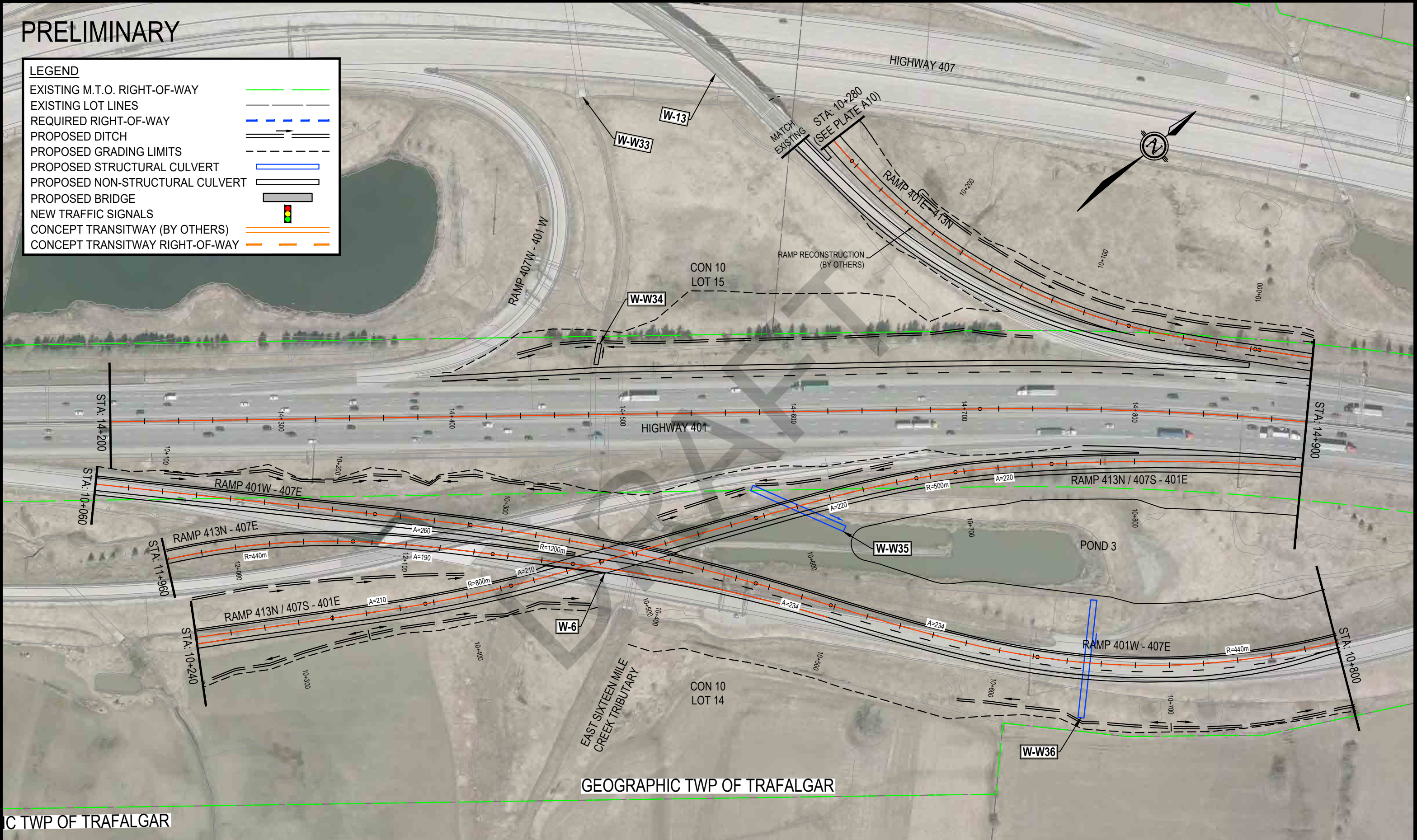
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



C TWP OF TRAFALGAR

WSP

AECOM

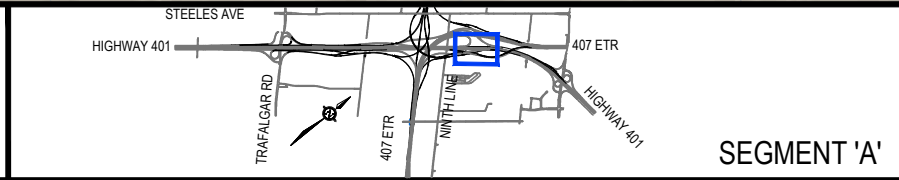
Ontario

Ministry of Transportation

HIGHWAY 413

PRELIMINARY DESIGN

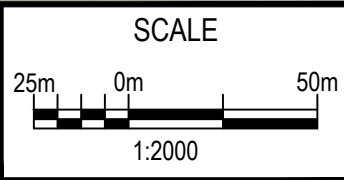
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN

HIGHWAY 401

STATION 14+200 TO STATION 14+900



PLATE

A7

PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR



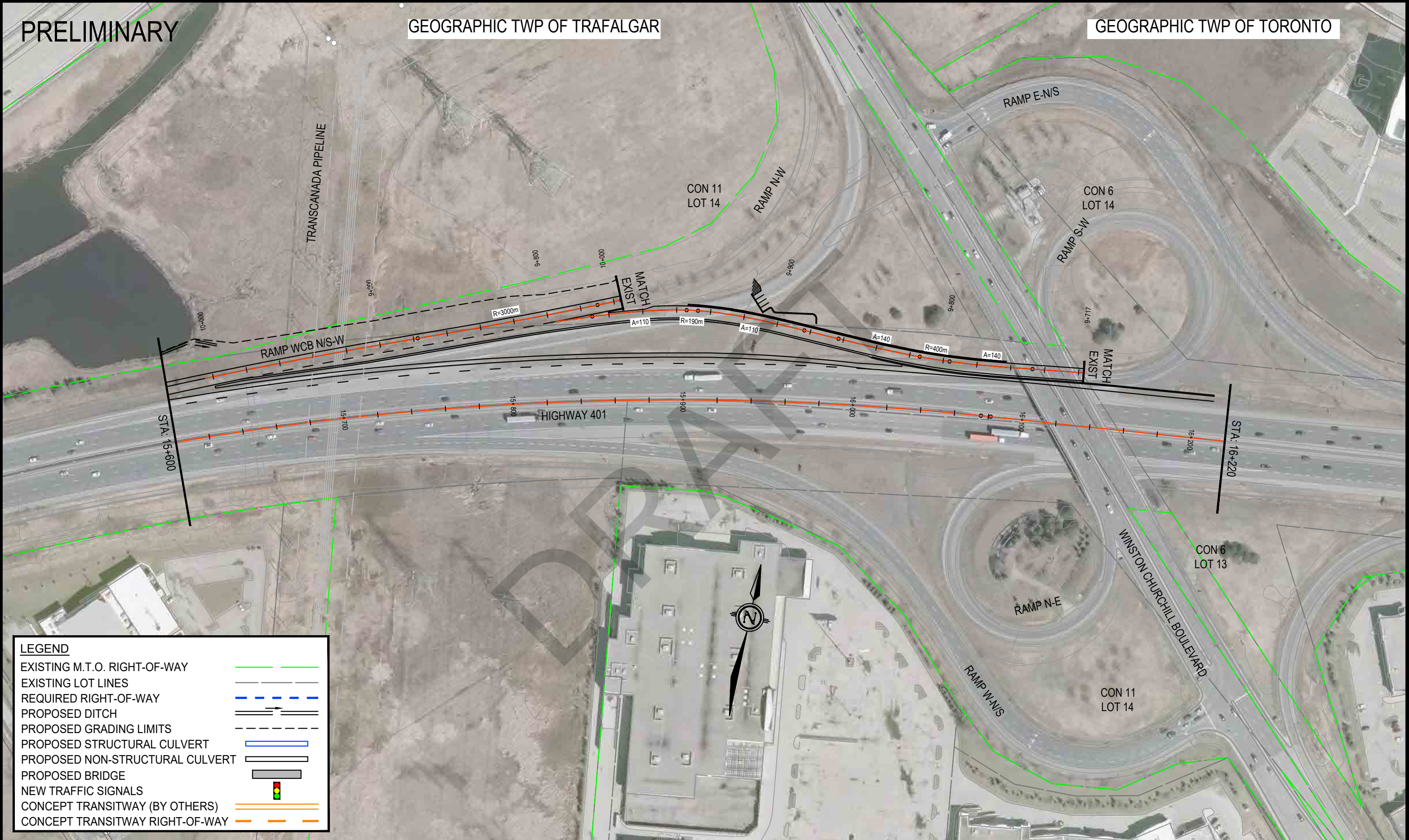
LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR

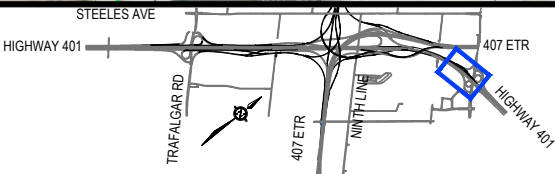
GEOGRAPHIC TWP OF TORONTO



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'A'

PRELIMINARY DESIGN PLAN
HIGHWAY 401
STATION 15+600 TO STATION 16+220

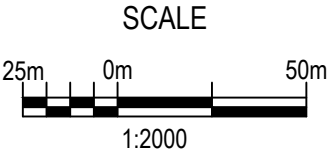
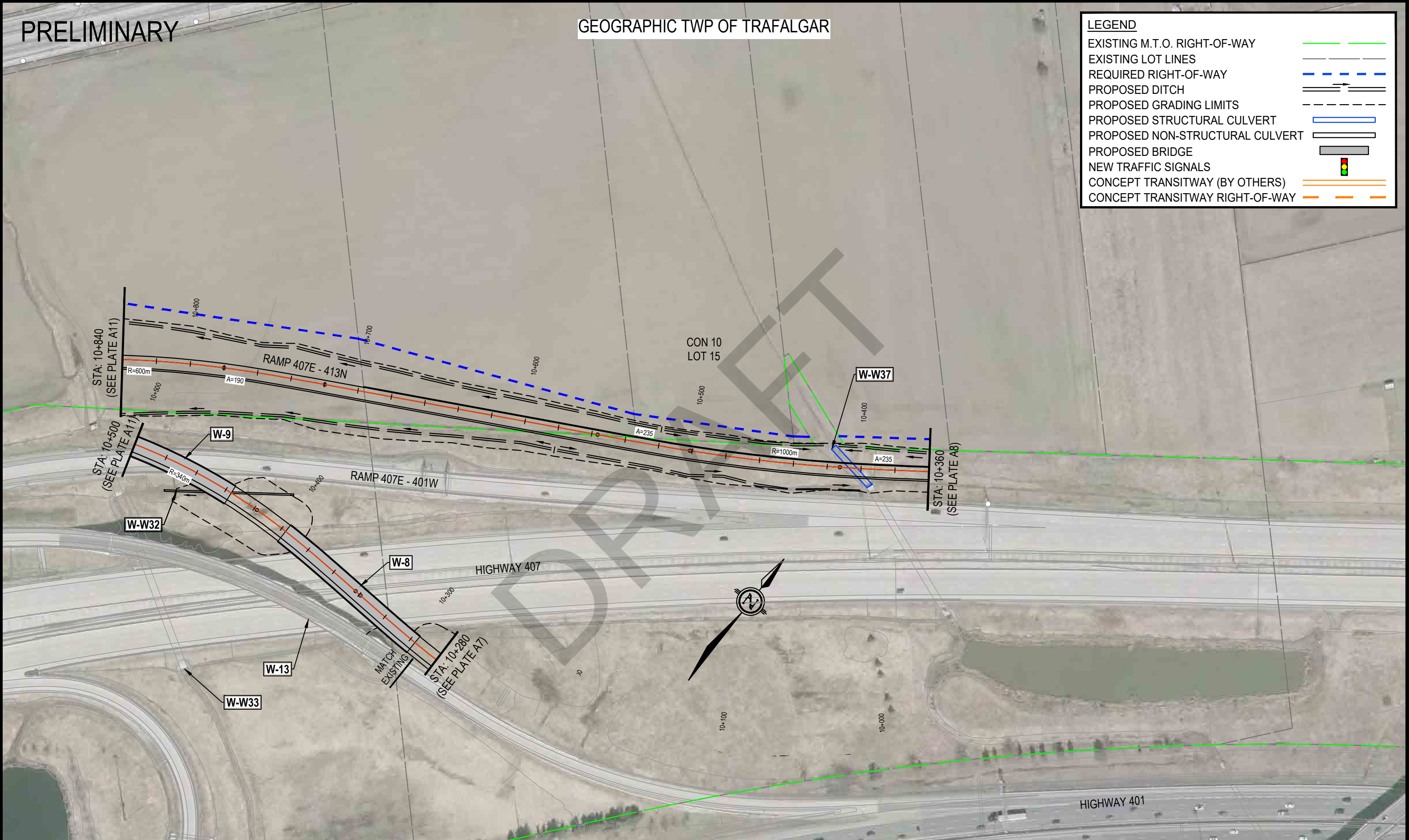


PLATE
A9

PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

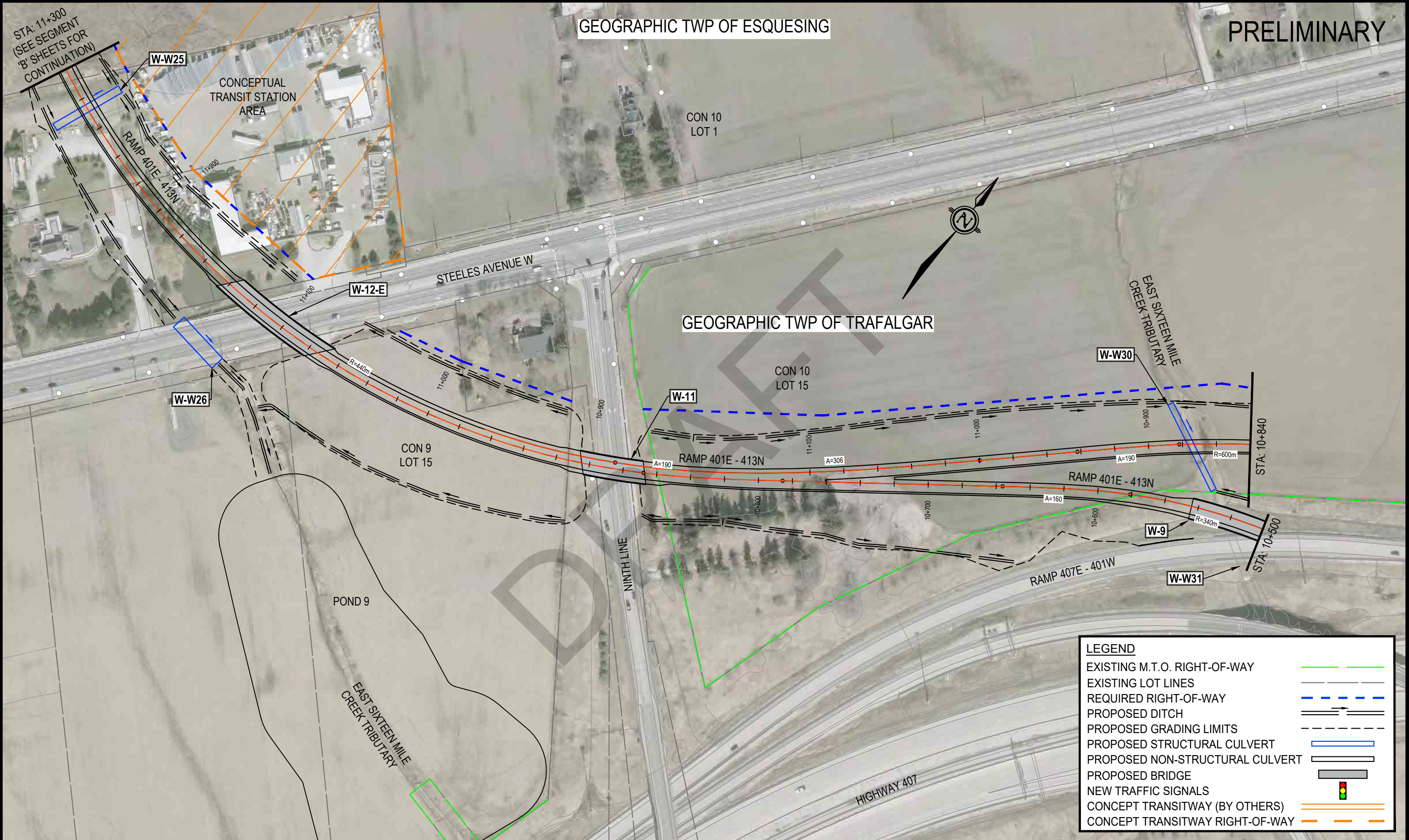


HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

PRELIMINARY DESIGN PLAN
HIGHWAY 407 RAMPS
STATION 10+360 TO STATION 10+840

SCALE
25m 0m 50m
1:2000

PLATE
A10



GEOGRAPHIC TWP OF ESQUESING

PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

PRELIMINARY DESIGN PLAN
HWY 407 RAMPS
STATION 10+840 TO STATION 11+300

SCALE
25m 0m 50m
1:2000

PLATE
A11

PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

SEGMENT 'A'

PRELIMINARY DESIGN PLAN
HIGHWAY 407
STATION 1+300 TO STATION 2+000

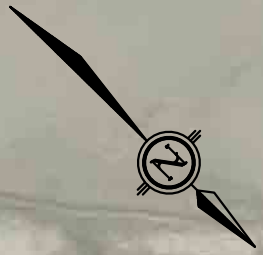
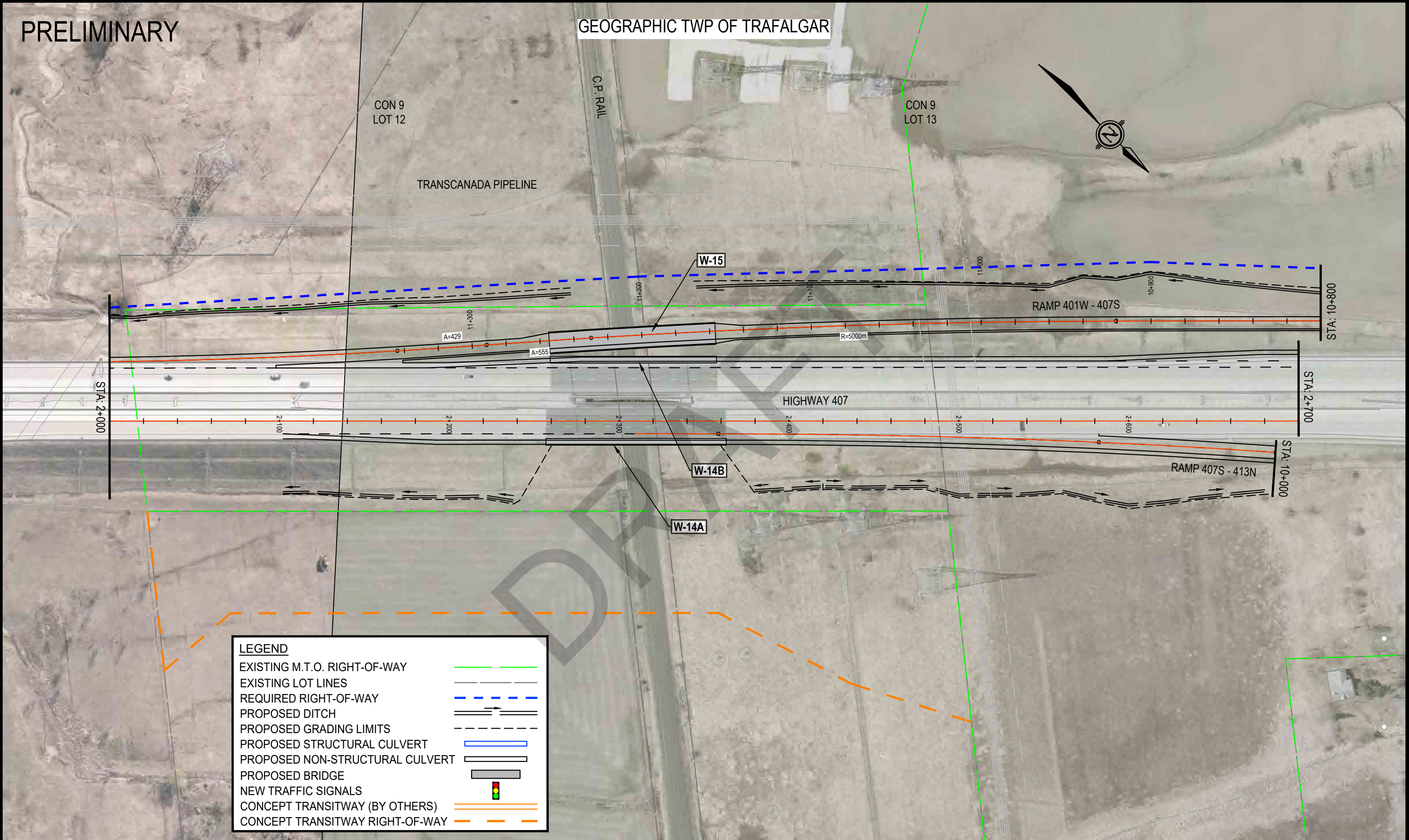
SCALE

1:2000

PLATE
A12

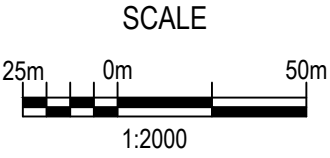
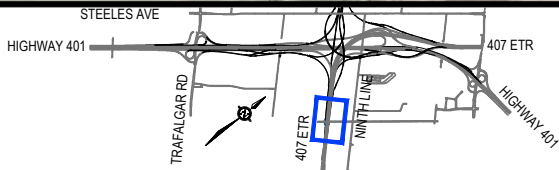
PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



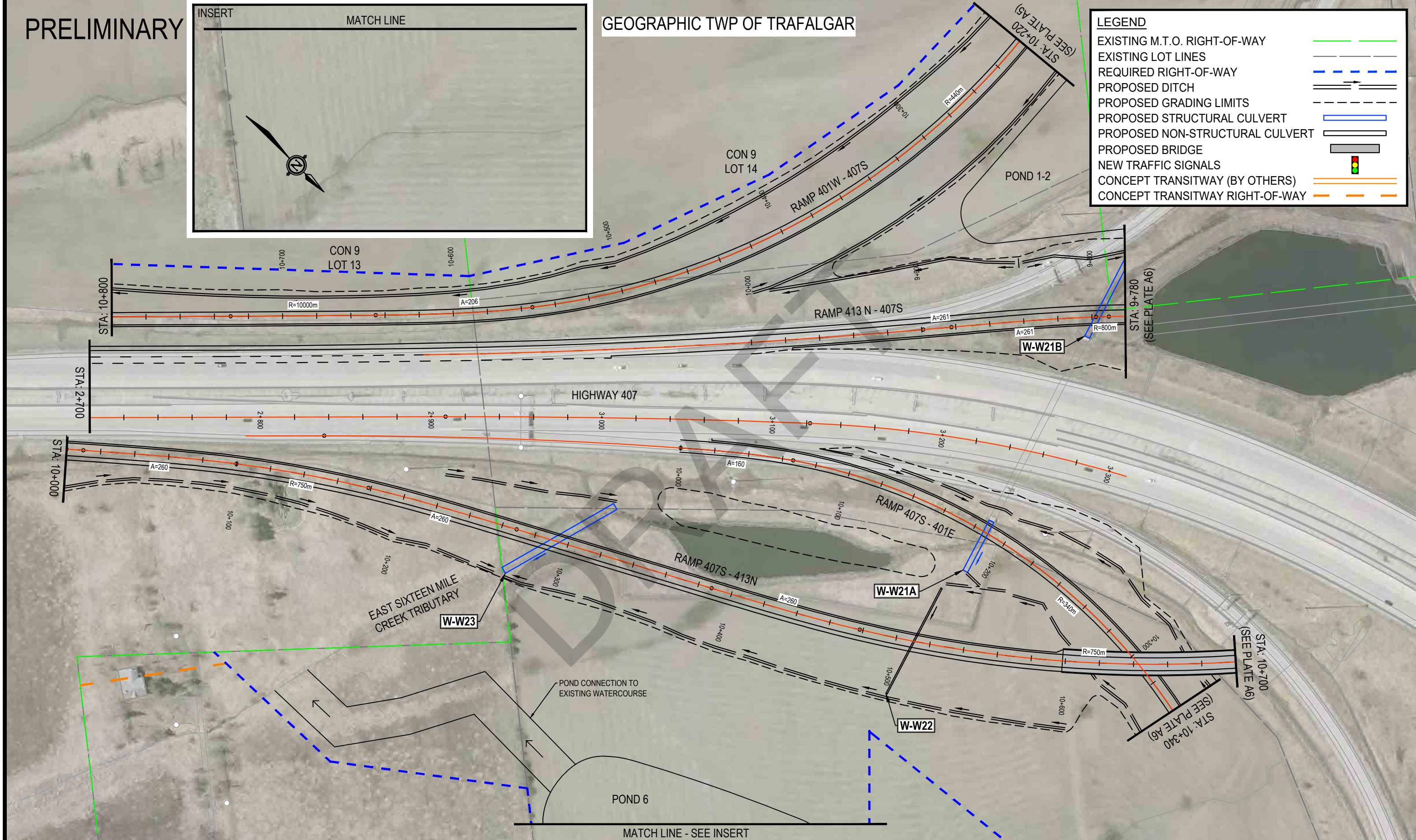
An aerial photograph of a coastal area, likely a beach or dune region. A dashed line runs vertically along the left edge, labeled "INSERT". A solid horizontal line runs across the top, labeled "MATCH LINE". A compass rose is located in the lower-left quadrant, showing a north arrow pointing towards the upper-left. The terrain is sandy with some sparse vegetation and a few small structures or trees visible.

GEOGRAPHIC TWP OF TRAFALGAR

LEGEND

- EXISTING M.T.O. RIGHT-OF-WAY
- EXISTING LOT LINES
- REQUIRED RIGHT-OF-WAY
- PROPOSED DITCH
- PROPOSED GRADING LIMITS
- PROPOSED STRUCTURAL CULVERT
- PROPOSED NON-STRUCTURAL CULVERT
- PROPOSED BRIDGE
- NEW TRAFFIC SIGNALS
- CONCEPT TRANSITWAY (BY OTHERS)
- CONCEPT TRANSITWAY RIGHT-OF-WAY

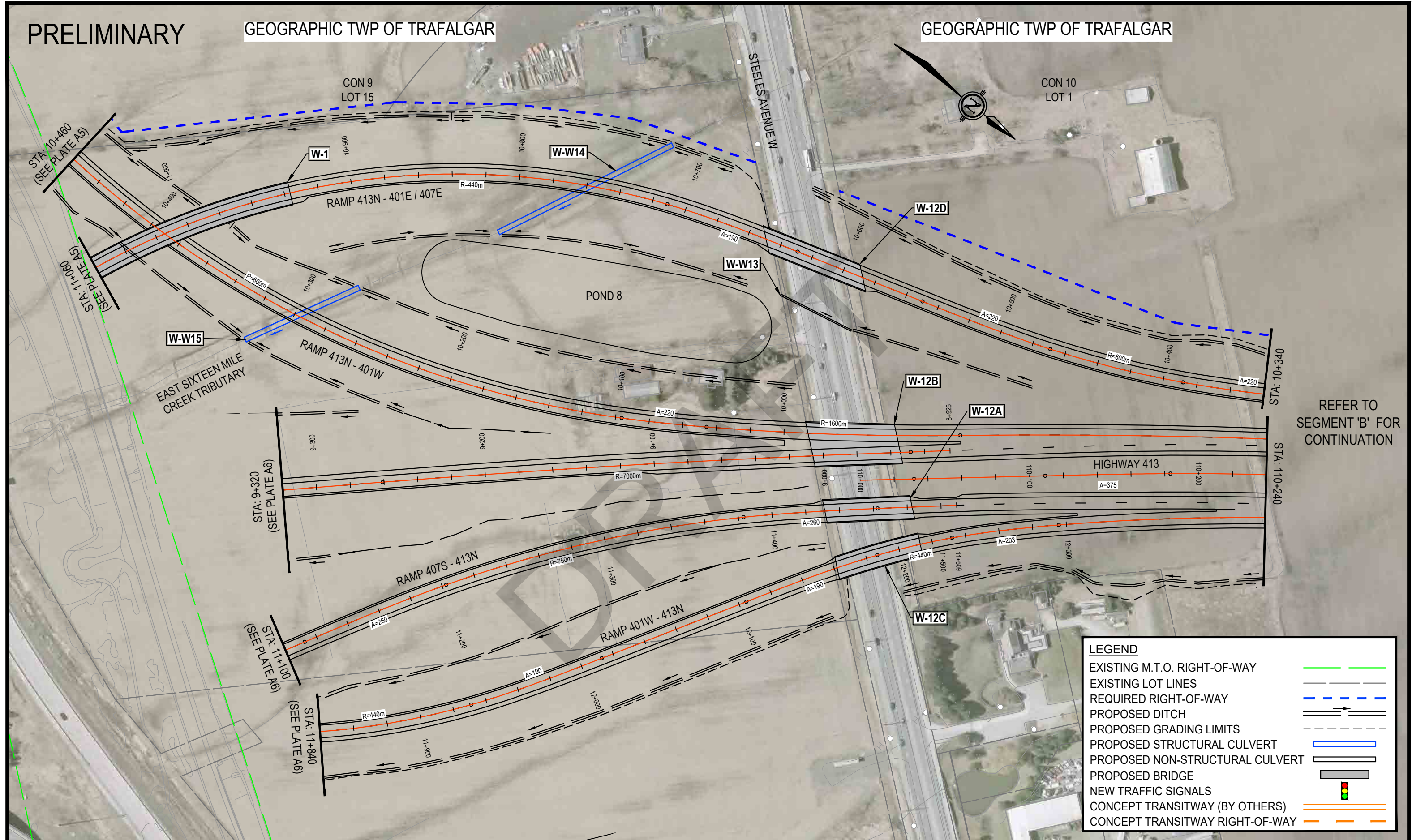
Map labels include: CON 9 LOT 14, RAMP 401W - 407S, R=400m, STA: 10+220 (SEE PLATE A5), POND 1-2, and various road designations like 10-300, 10-400, 10-500.



PRELIMINARY

GEOGRAPHIC TWP OF TRAFALGAR

GEOGRAPHIC TWP OF TRAFALGAR



REFER TO
SEGMENT 'B' FOR
CONTINUATION

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

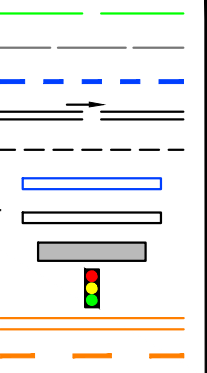
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



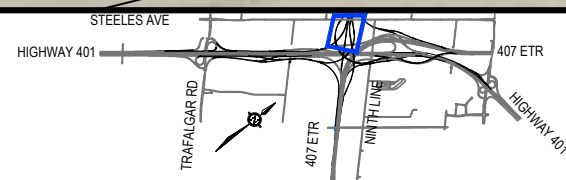
WSP

AECOM

Ontario


**Ministry of
Transportation**

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



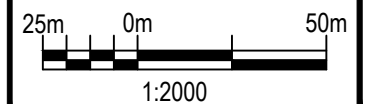
SEGMENT 'A'

PRELIMINARY DESIGN PLAN

HIGHWAY 413

STATION 110+000 TO STATION 110+240

SCALE

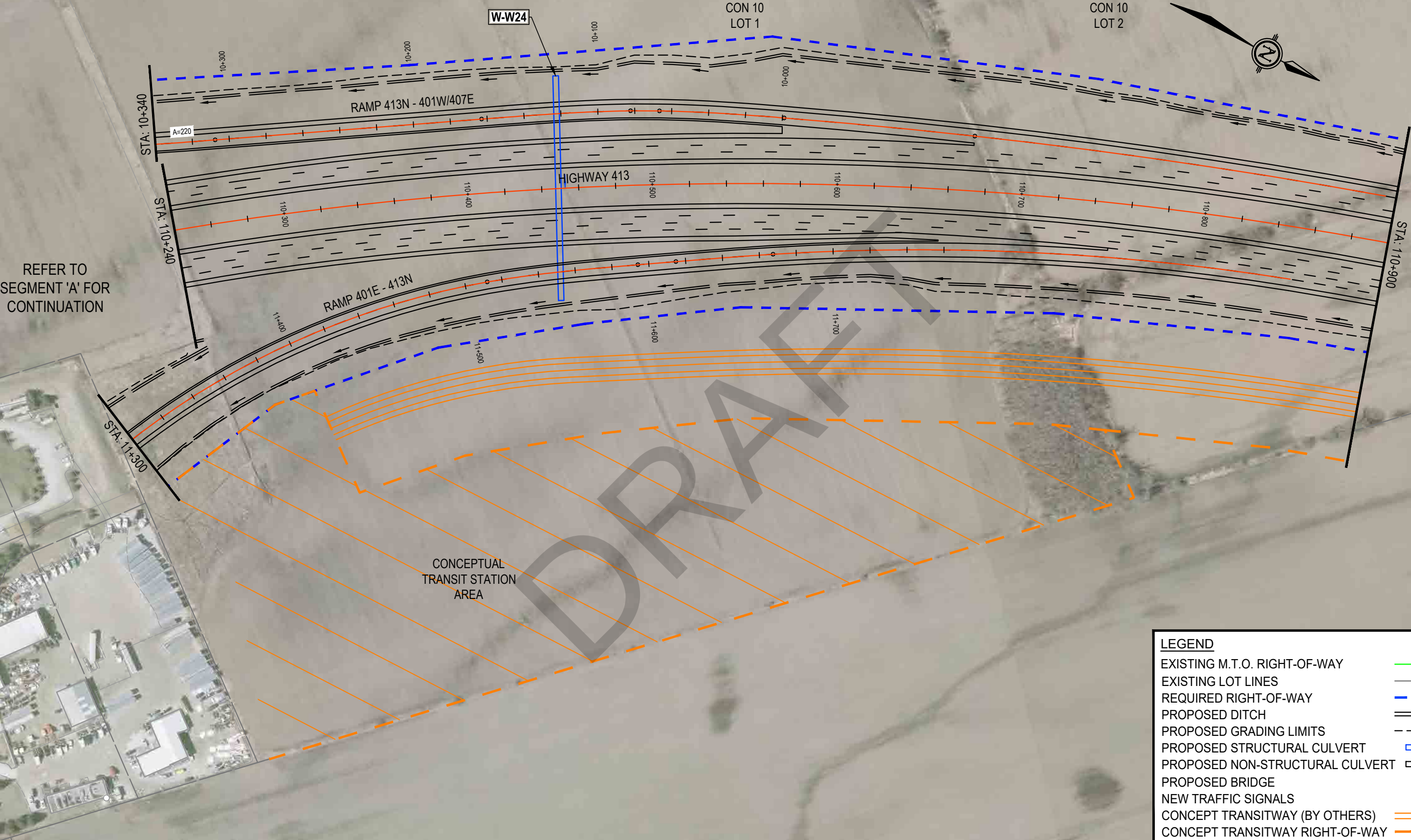


PLATE

A15

PRELIMINARY

GEOGRAPHIC TWP OF ESQUESING

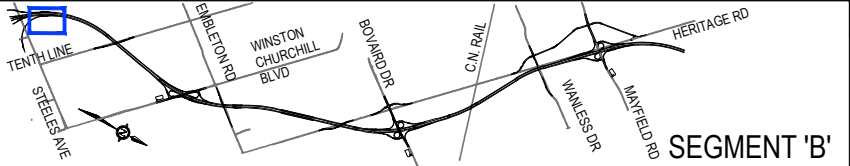


REFER TO
SEGMENT 'A' FOR
CONTINUATION

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 110+240 TO STATION 110+900

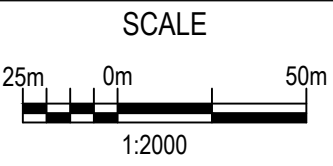


PLATE
B1

PRELIMINARY

GEOGRAPHIC TWP OF ESQUESING



CON 10
LOT 2

CON 10
LOT 3

W-W28

W-W40

HIGHWAY 413

STA: 110+900

STA: 111+600

R=1900m

111+000

111+100

111+200

111+300

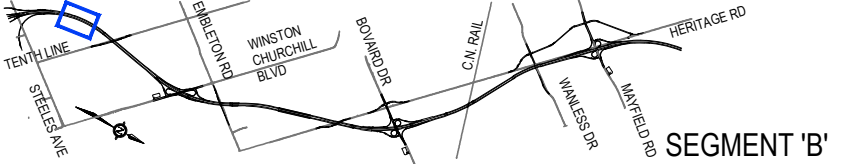
111+400

111+500

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 110+900 TO STATION 111+600

SCALE

1:2000

PLATE
B2

PRELIMINARY

GEOGRAPHIC TWP OF ESQUESING

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

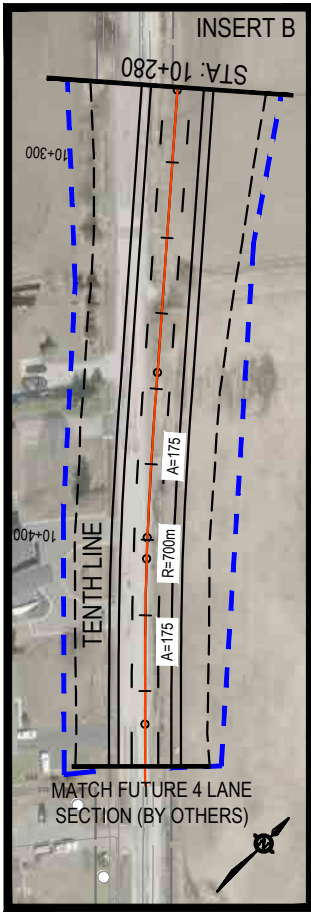
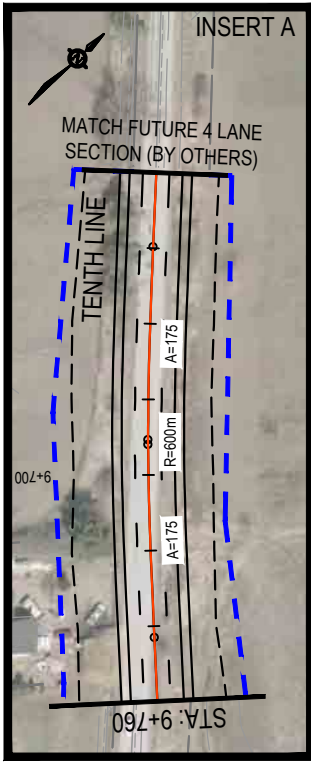
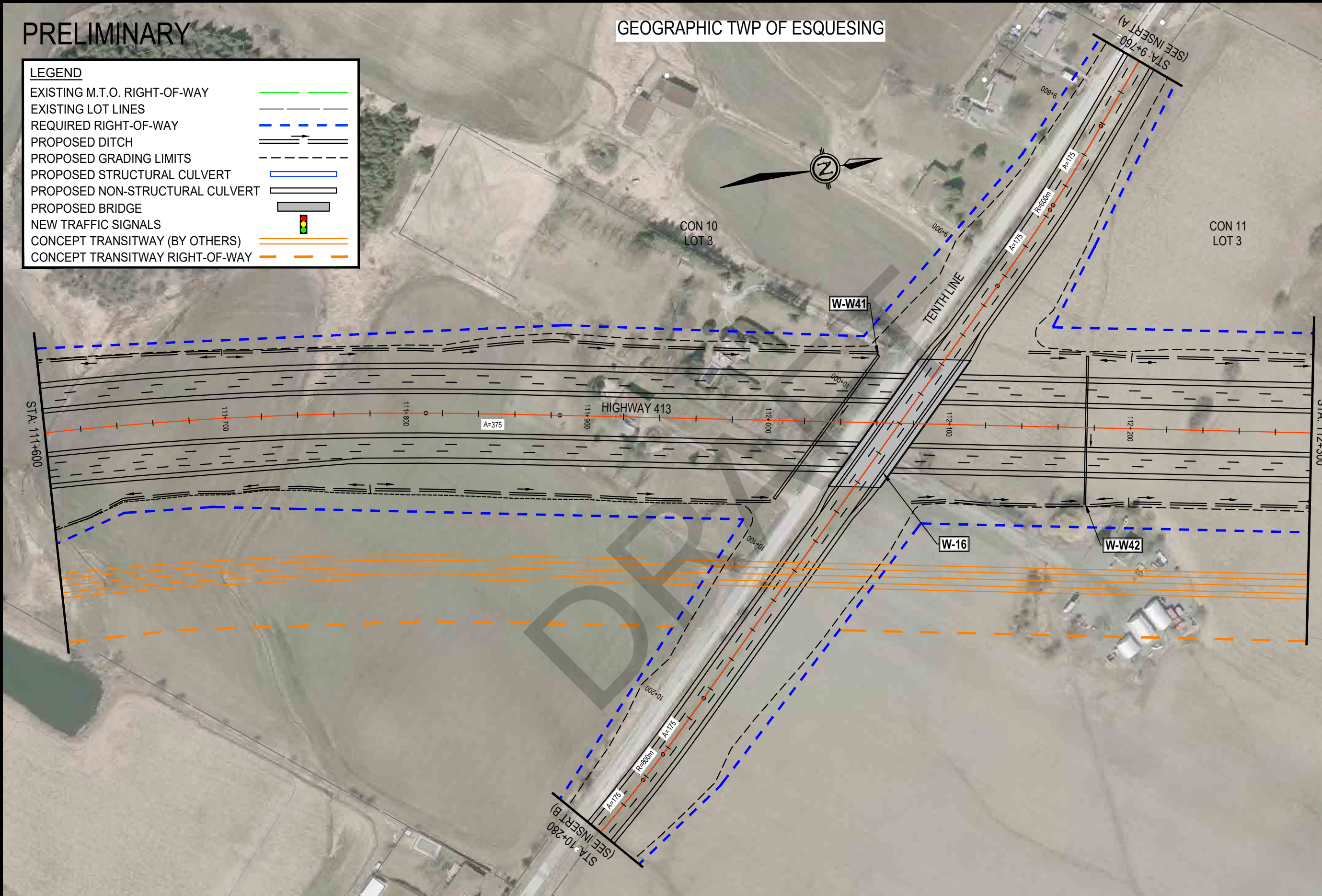
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



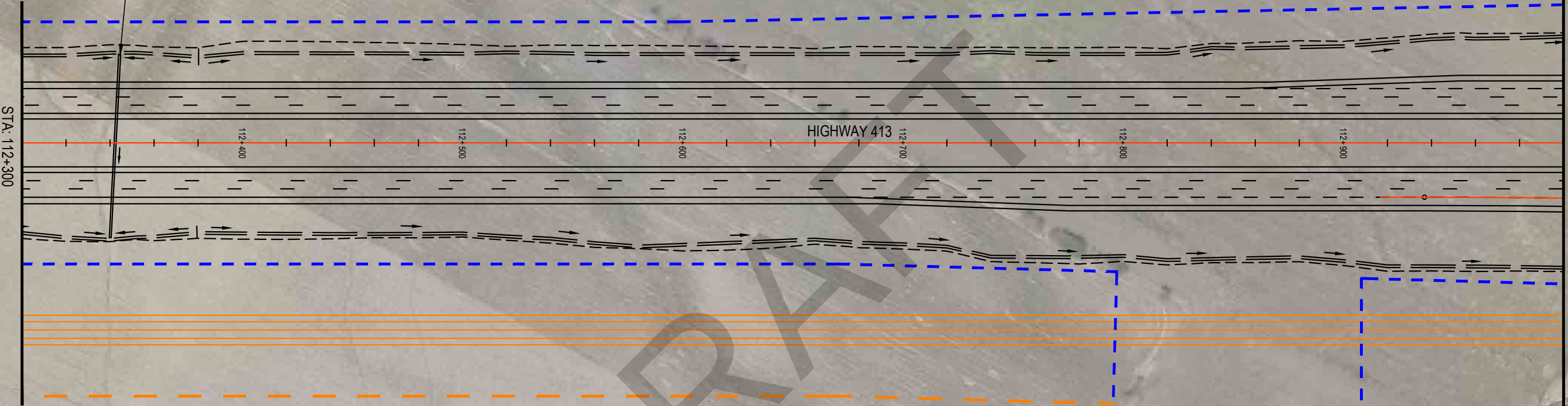
PRELIMINARY

GEOGRAPHIC TWP OF ESQUESING



CON 11
LOT 4

W-W43



STA: 113+000

CON 11
LOT 3

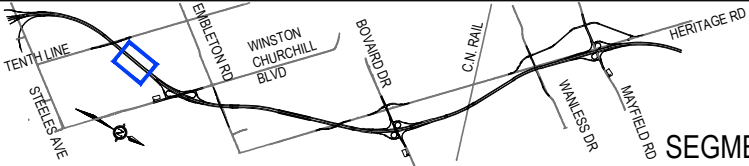
POND 1

POND CONNECTION TO
EXISTING WATERCOURSE

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 112+300 TO STATION 113+000

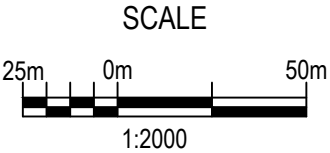
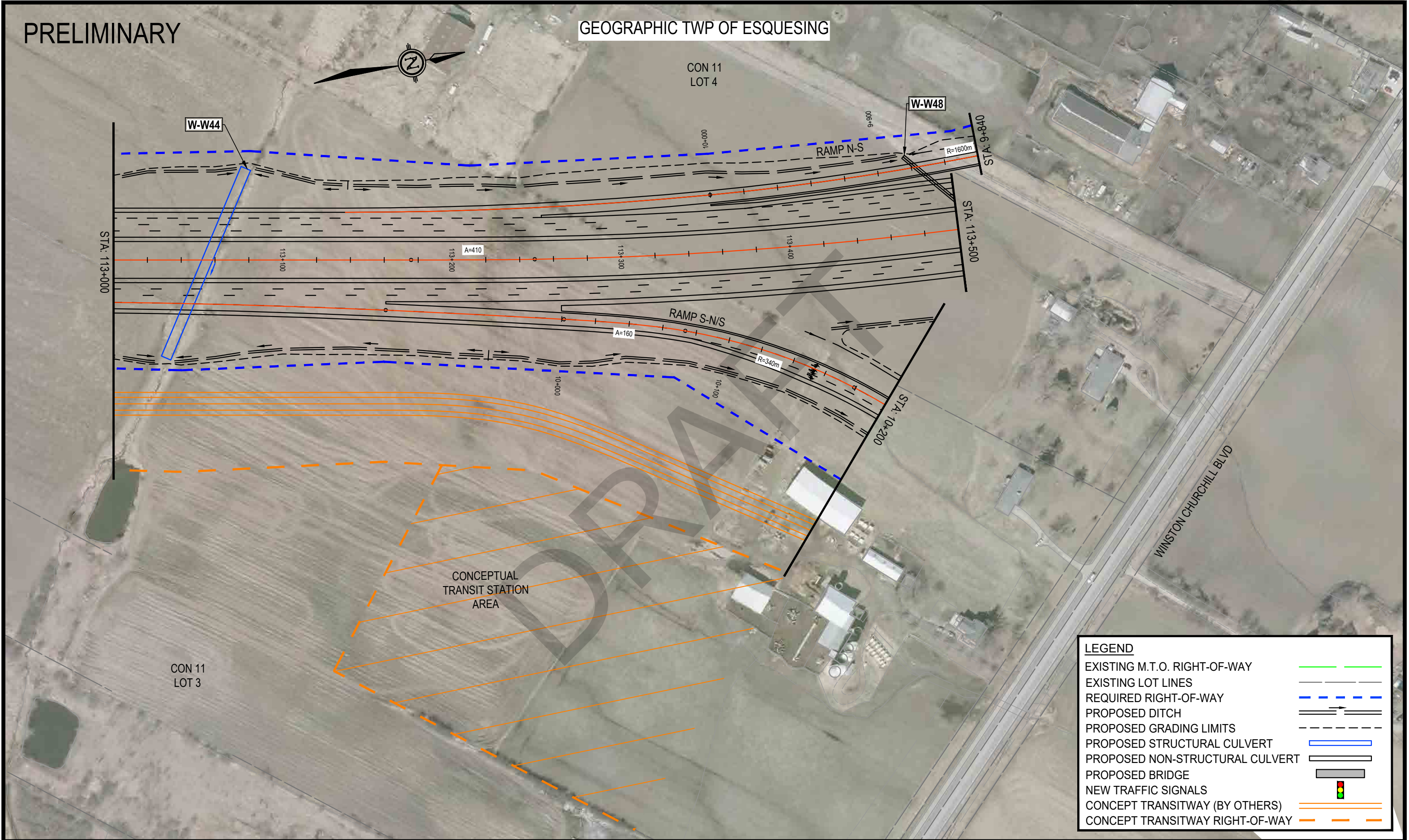


PLATE
B4

PRELIMINARY

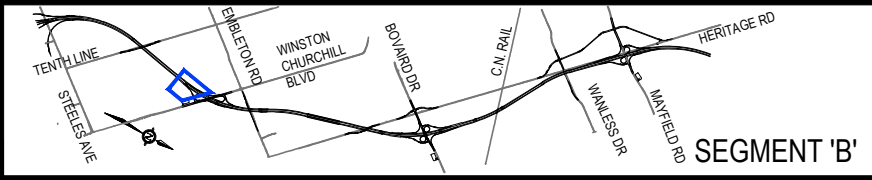
GEOGRAPHIC TWP OF ESQUESING



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 113+000 TO STATION 113+500

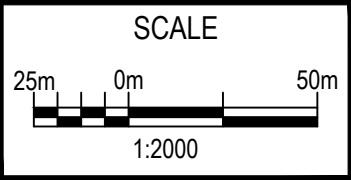
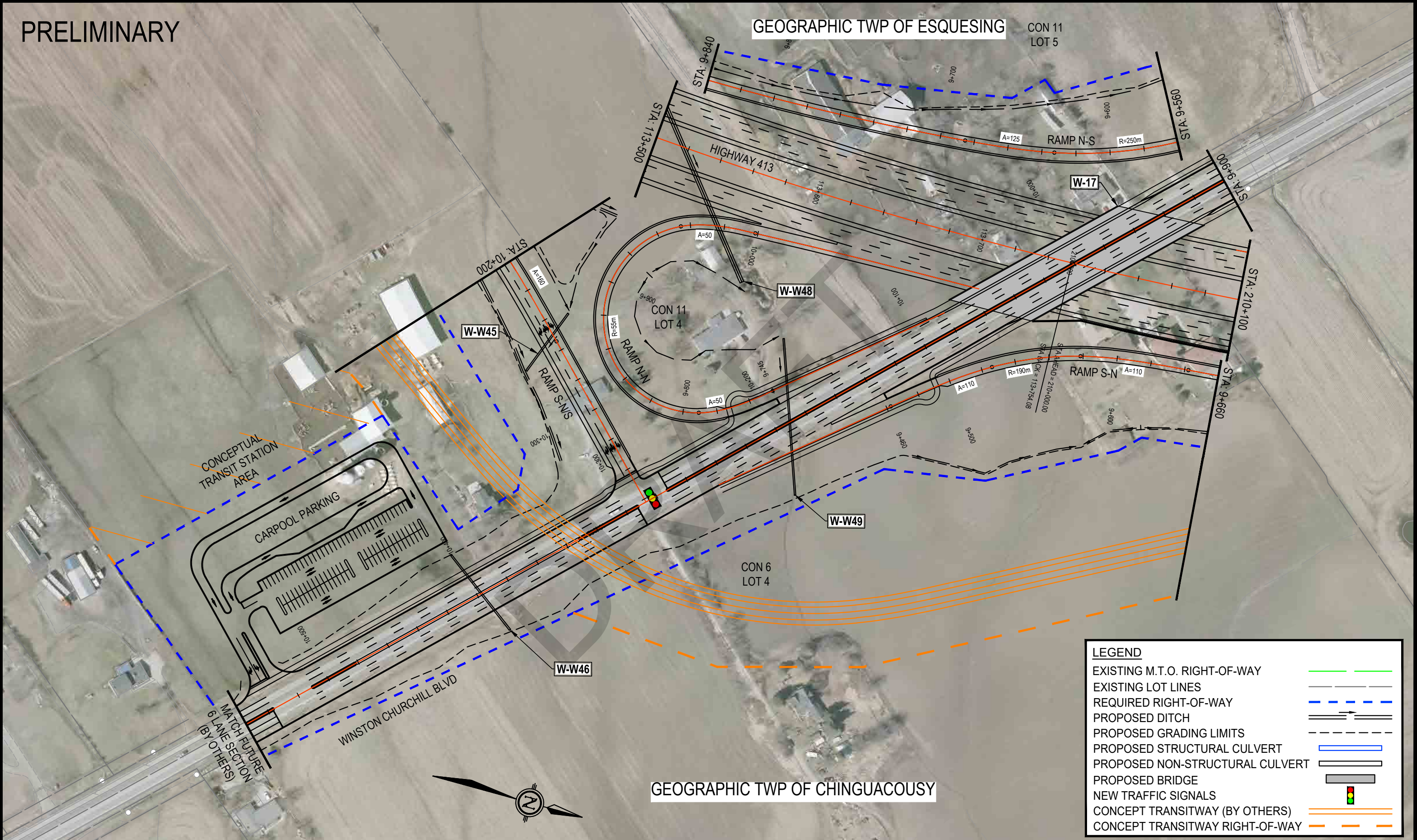


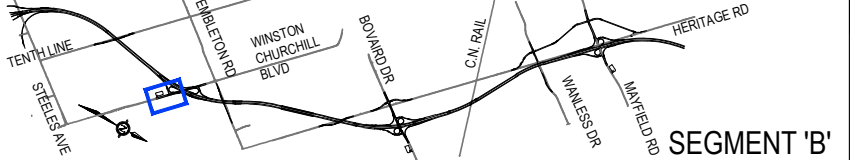
PLATE
B5

PRELIMINARY



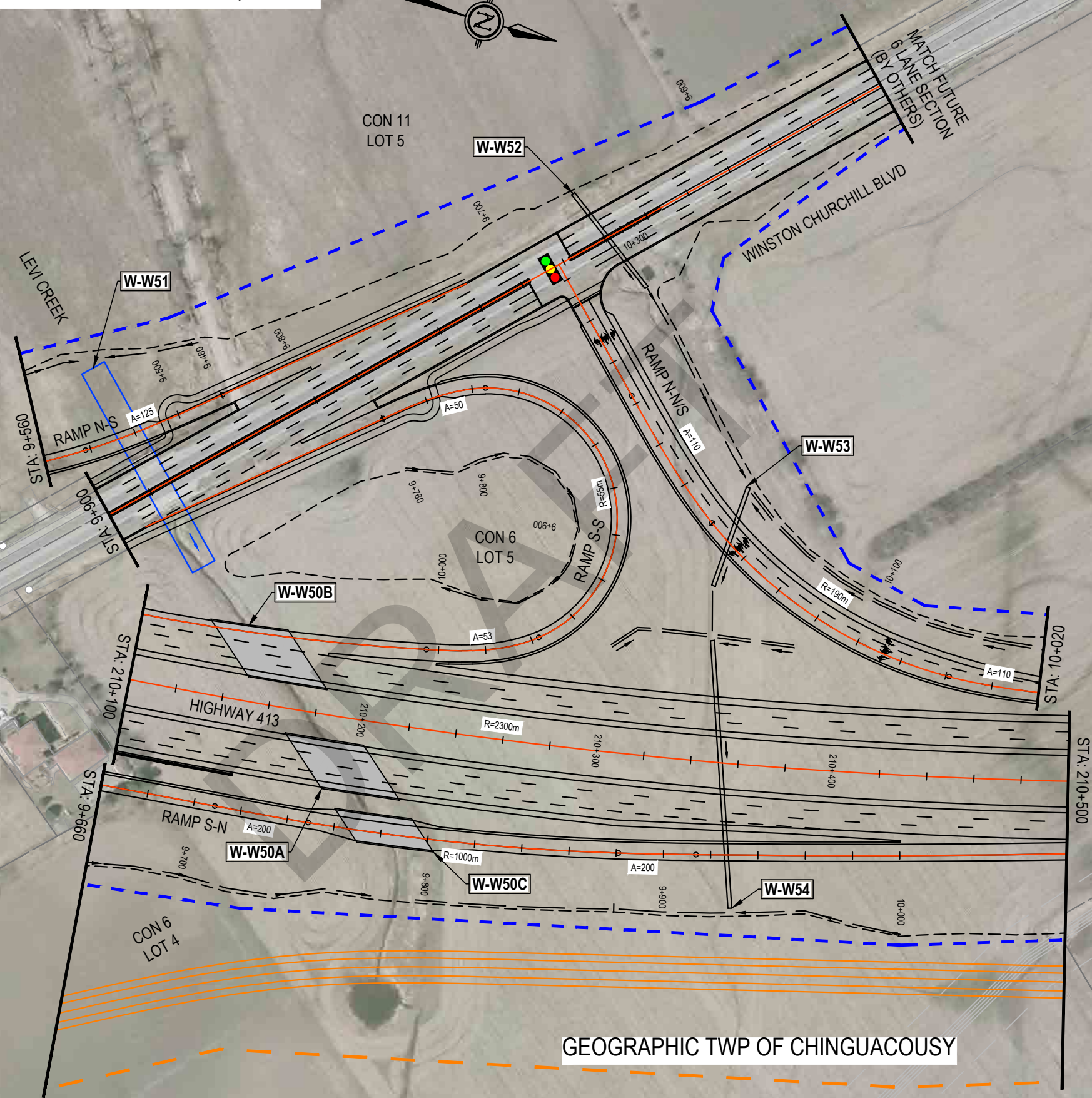
LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

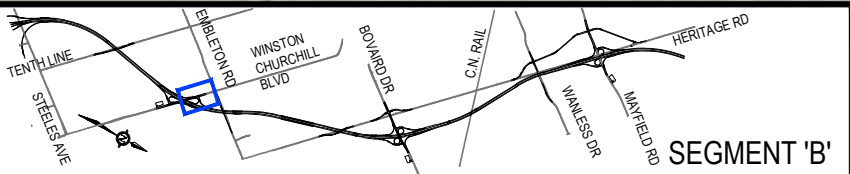
GEOGRAPHIC TWP OF ESQUESING



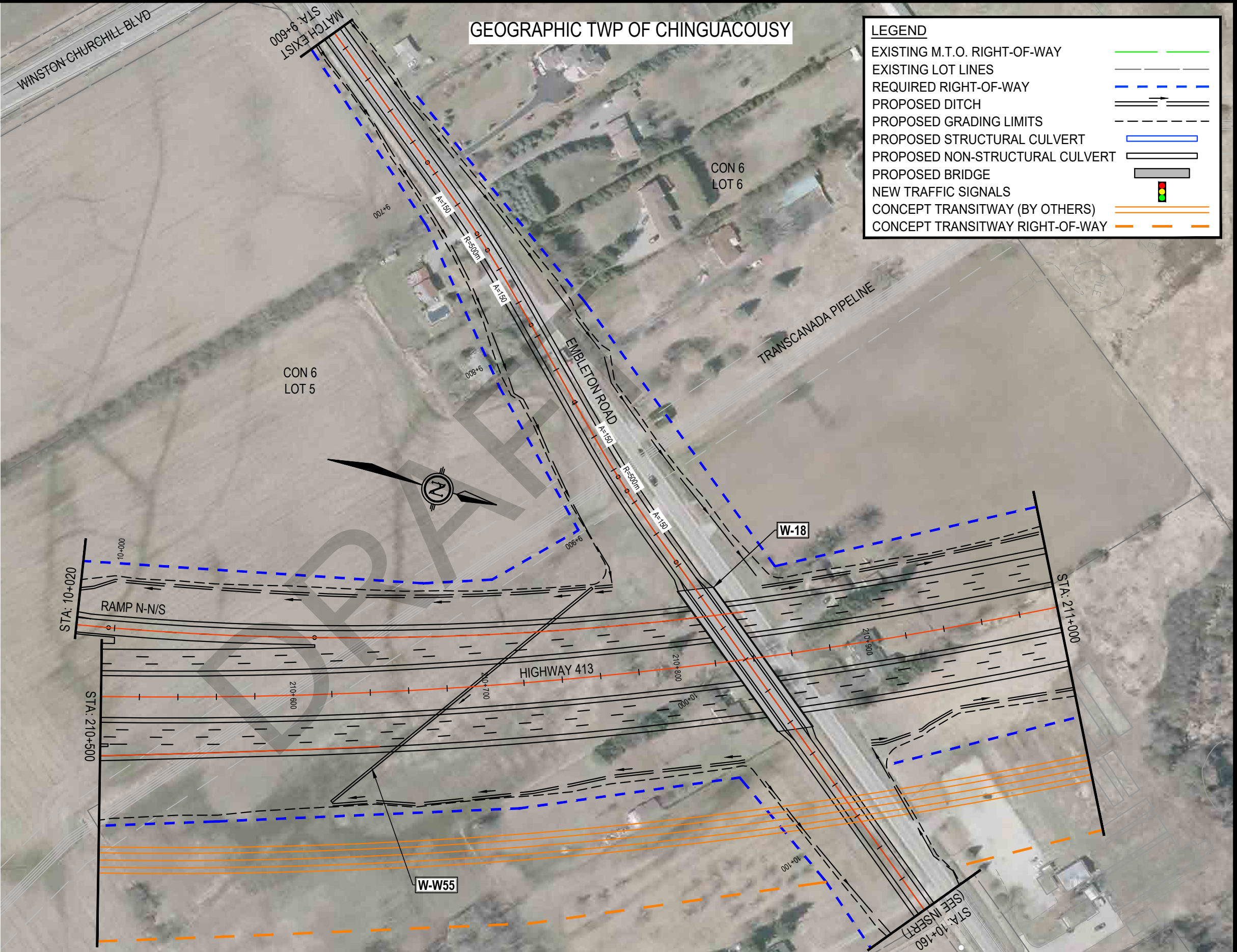
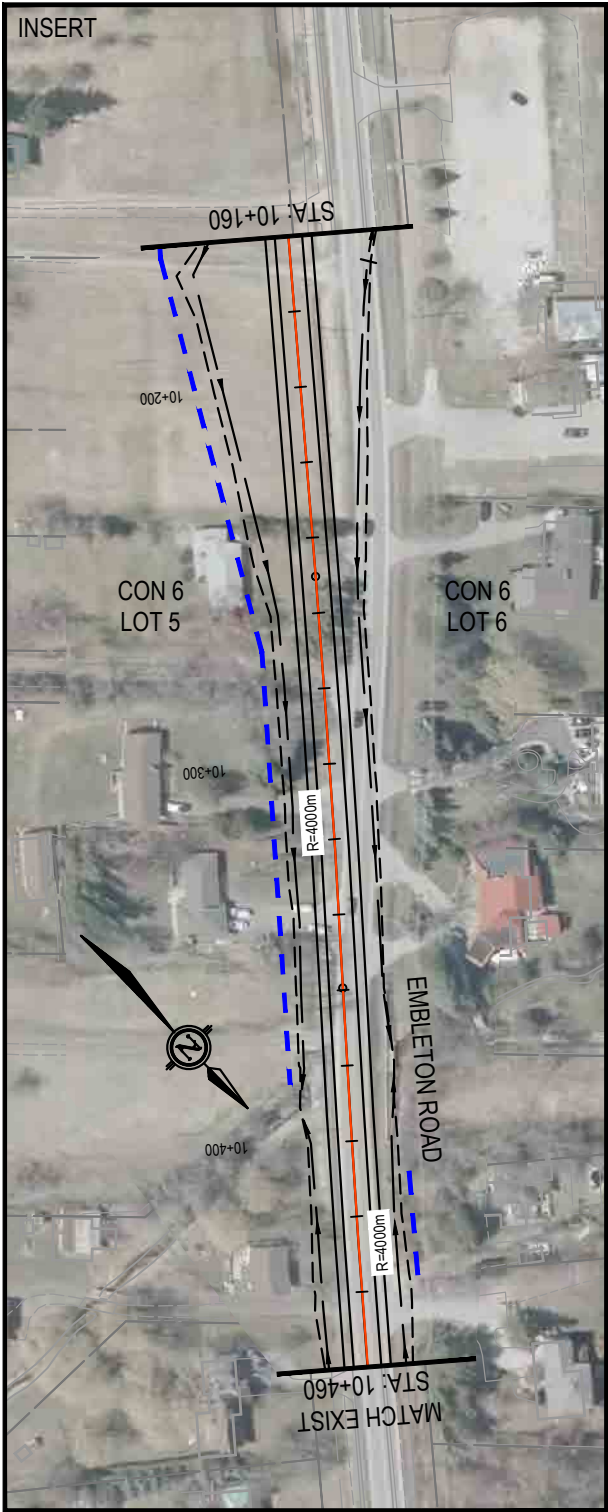
LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

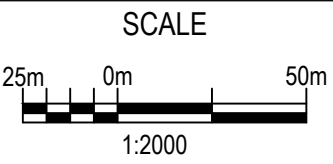
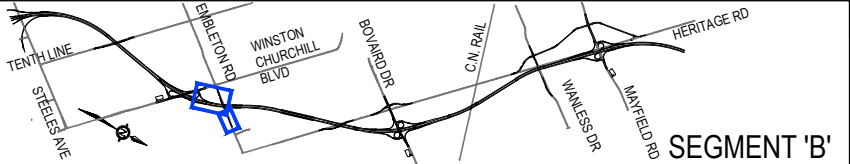
GEOGRAPHIC TWP OF CHINGUACOUSY



PRELIMINARY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

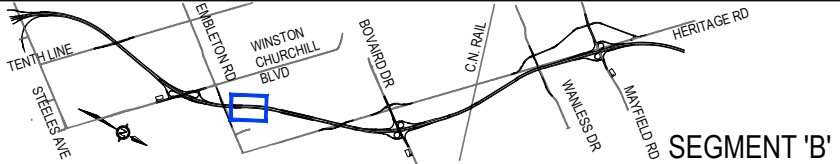
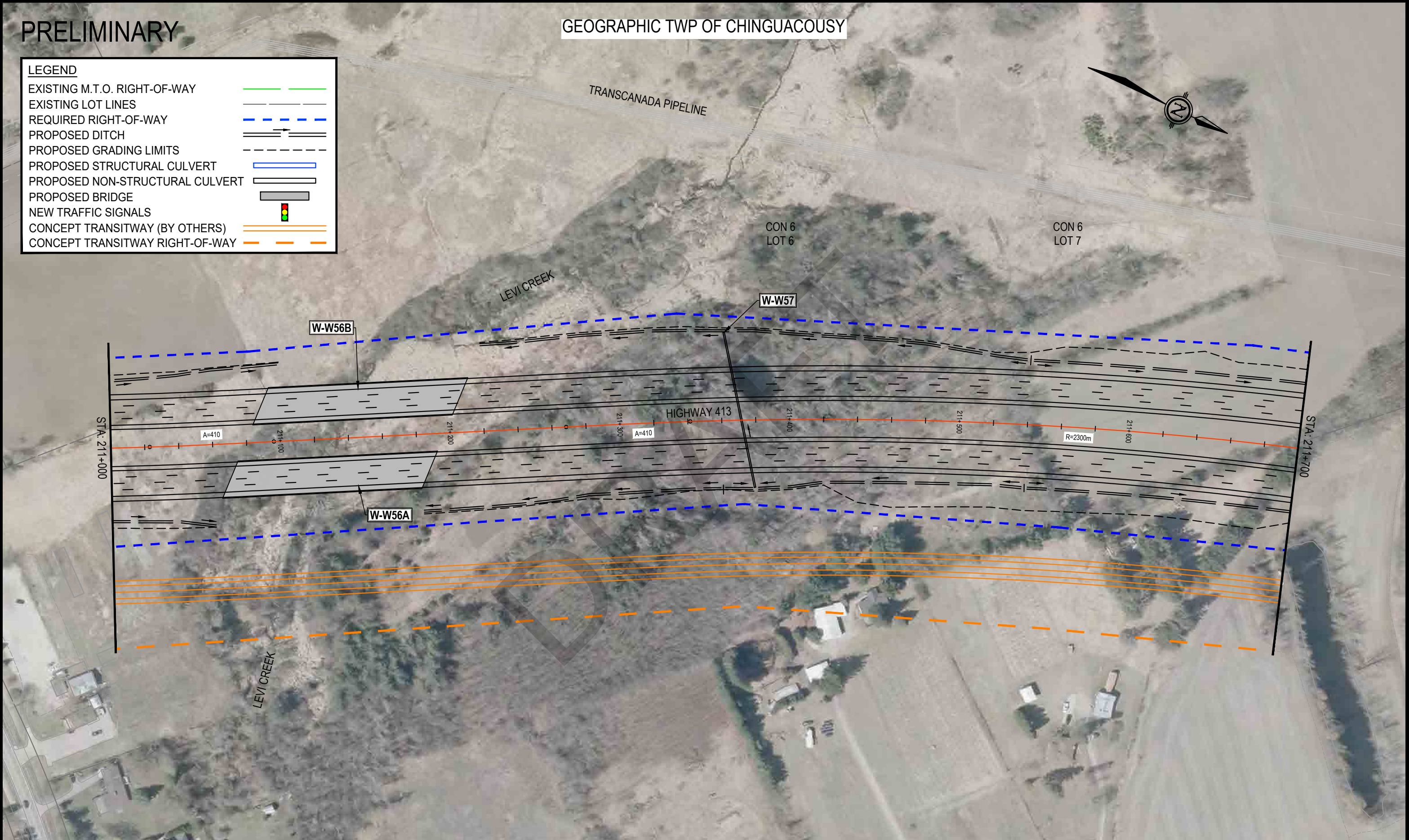
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

TRANSCANADA PIPELINE

CON 6
LOT 8

W-W58

W-W59B

HIGHWAY 413

A=410

211+300

212+000

212+100

212+200

212+300

W-W59A

CREDIT RIVER
BRIDGE POND

POND CONNECTION TO
EXISTING WATERCOURSE

CON 6
LOT 8

CON 6
LOT 7

CON 6
LOT 6

CREDIT RIVER

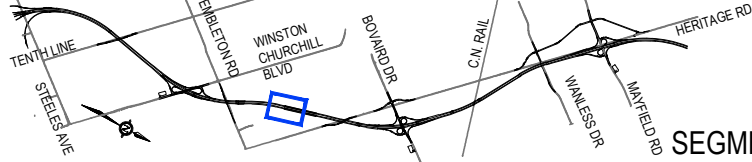
LEGEND

- EXISTING M.T.O. RIGHT-OF-WAY
- EXISTING LOT LINES
- REQUIRED RIGHT-OF-WAY
- PROPOSED DITCH
- PROPOSED GRADING LIMITS
- PROPOSED STRUCTURAL CULVERT
- PROPOSED NON-STRUCTURAL CULVERT
- PROPOSED BRIDGE
- NEW TRAFFIC SIGNALS
- CONCEPT TRANSITWAY (BY OTHERS)
- CONCEPT TRANSITWAY RIGHT-OF-WAY

wsp AECOM

Ontario Ministry of Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 211+700 TO STATION 212+400

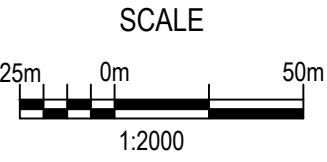


PLATE
B10

PRELIMINARY

TRANSCANADA PIPELINE

GEOGRAPHIC TWP OF CHINGUACOUSY

CON 6
LOT 9

CON 6
LOT 8

HIGHWAY 413

W-W59B

W-W59A

POND 2

CON 6
LOT 7

POND CONNECTION
TO EXISTING
WATERCOURSE

MATCH FUTURE 4 LANE
SECTION (BY OTHERS)

HERITAGE ROAD

CON 5
LOT 8

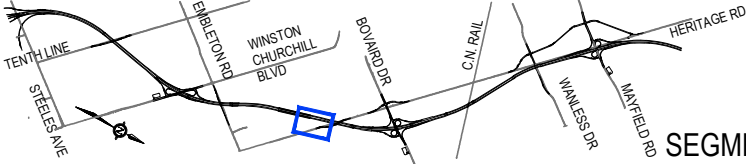
LEGEND

- EXISTING M.T.O. RIGHT-OF-WAY
- EXISTING LOT LINES
- REQUIRED RIGHT-OF-WAY
- PROPOSED DITCH
- PROPOSED GRADING LIMITS
- PROPOSED STRUCTURAL CULVERT
- PROPOSED NON-STRUCTURAL CULVERT
- PROPOSED BRIDGE
- NEW TRAFFIC SIGNALS
- CONCEPT TRANSITWAY (BY OTHERS)
- CONCEPT TRANSITWAY RIGHT-OF-WAY

WSP AECOM

Ontario Ministry of Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

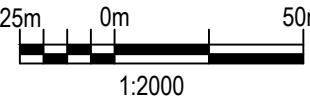


PRELIMINARY DESIGN PLAN

HIGHWAY 413

STATION 212+400 TO STATION 213+100

SCALE



PLATE

B11

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

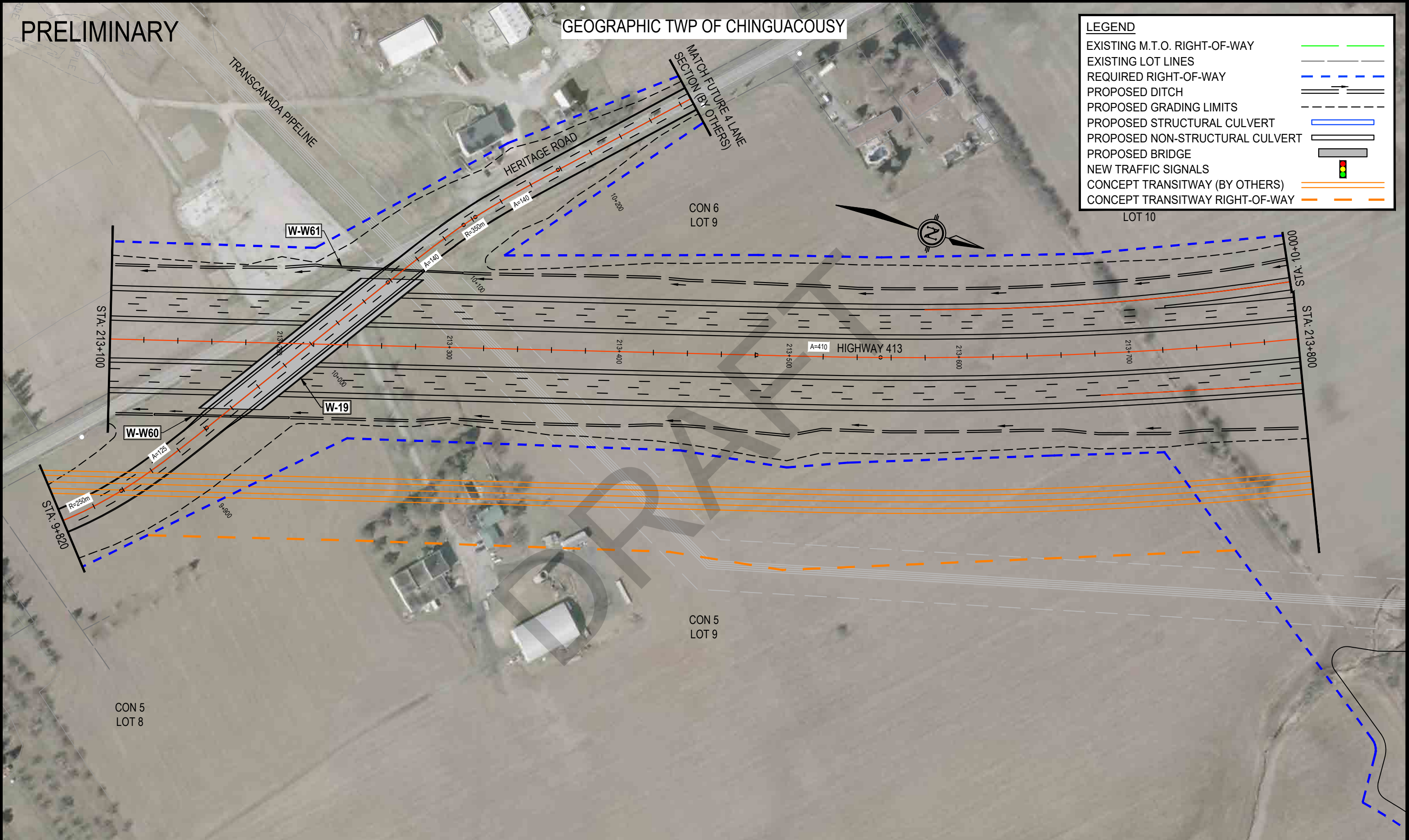
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



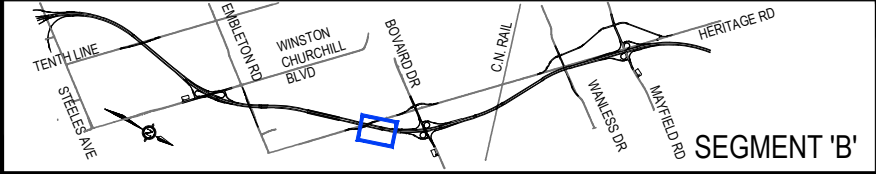
WSP

AECOM

Ontario

Ministry of Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 213+100 TO STATION 213+800

SCALE

25m

0m

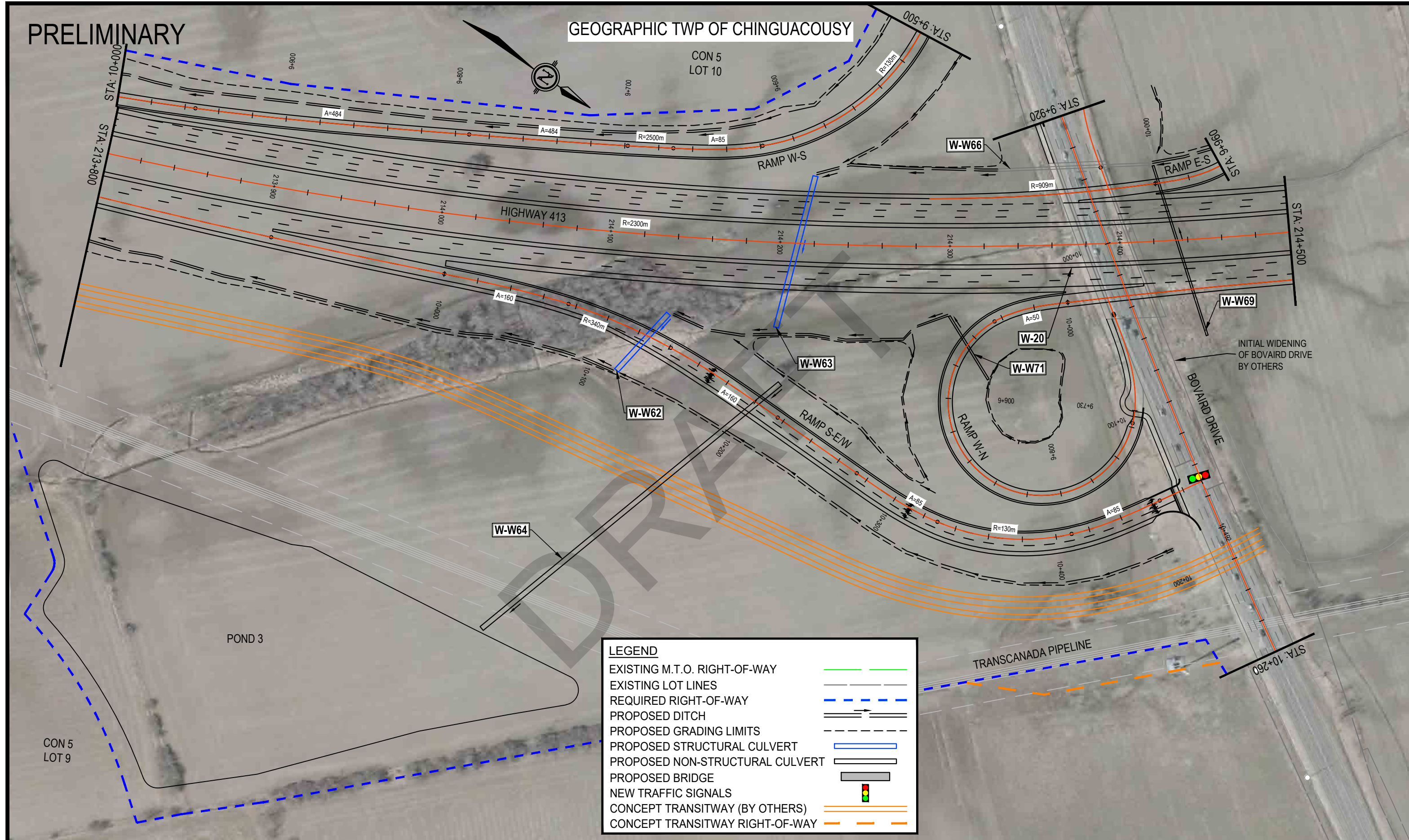
50m

1:2000

PLATE
B12

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



wsp

AECOM

Ontario  **Ministry of
Transportation**

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

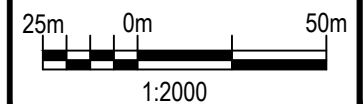


PRELIMINARY DESIGN PLAN

HIGHWAY 413

STATION 213+800 TO STATION 214+500

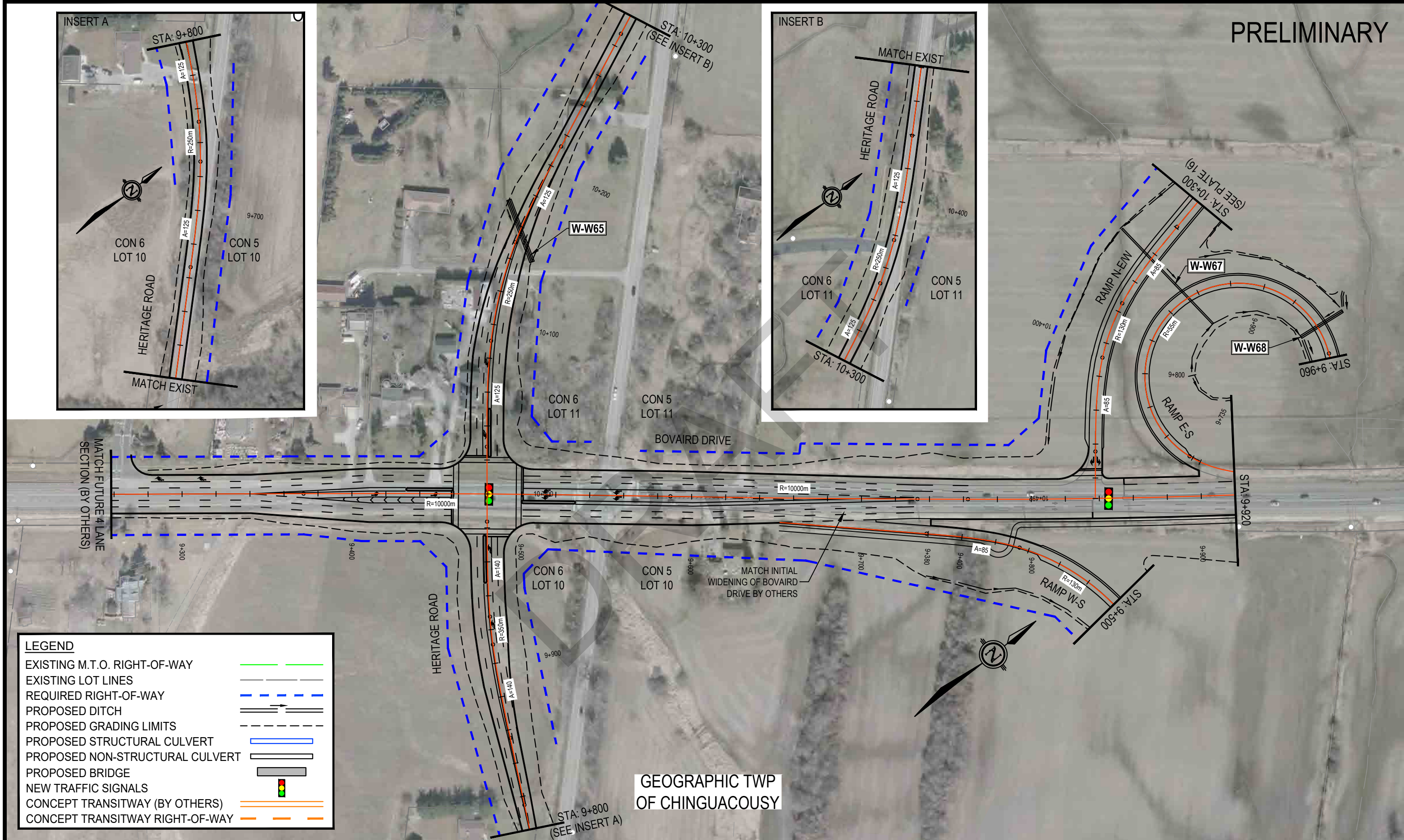
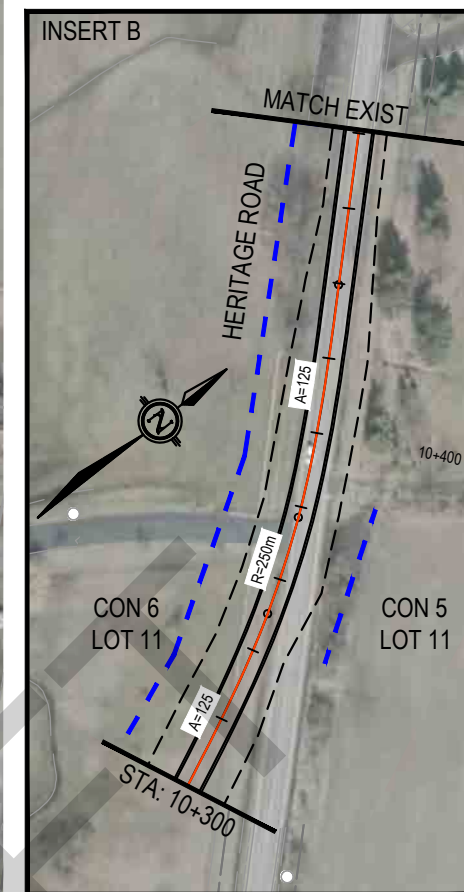
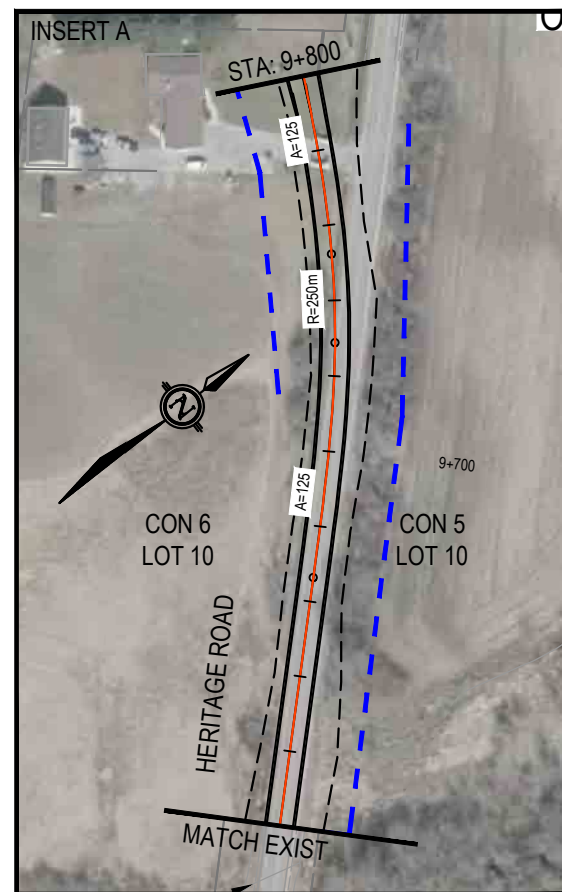
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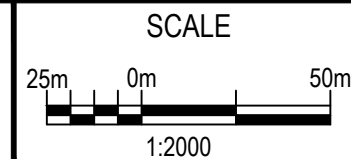
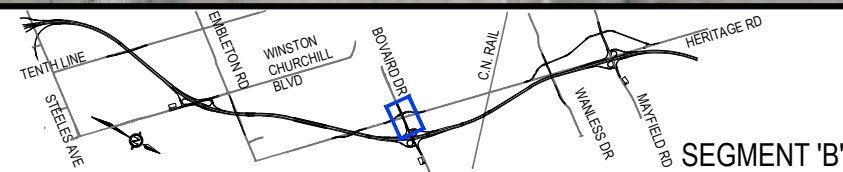
PLATE

B13

PRELIMINARY

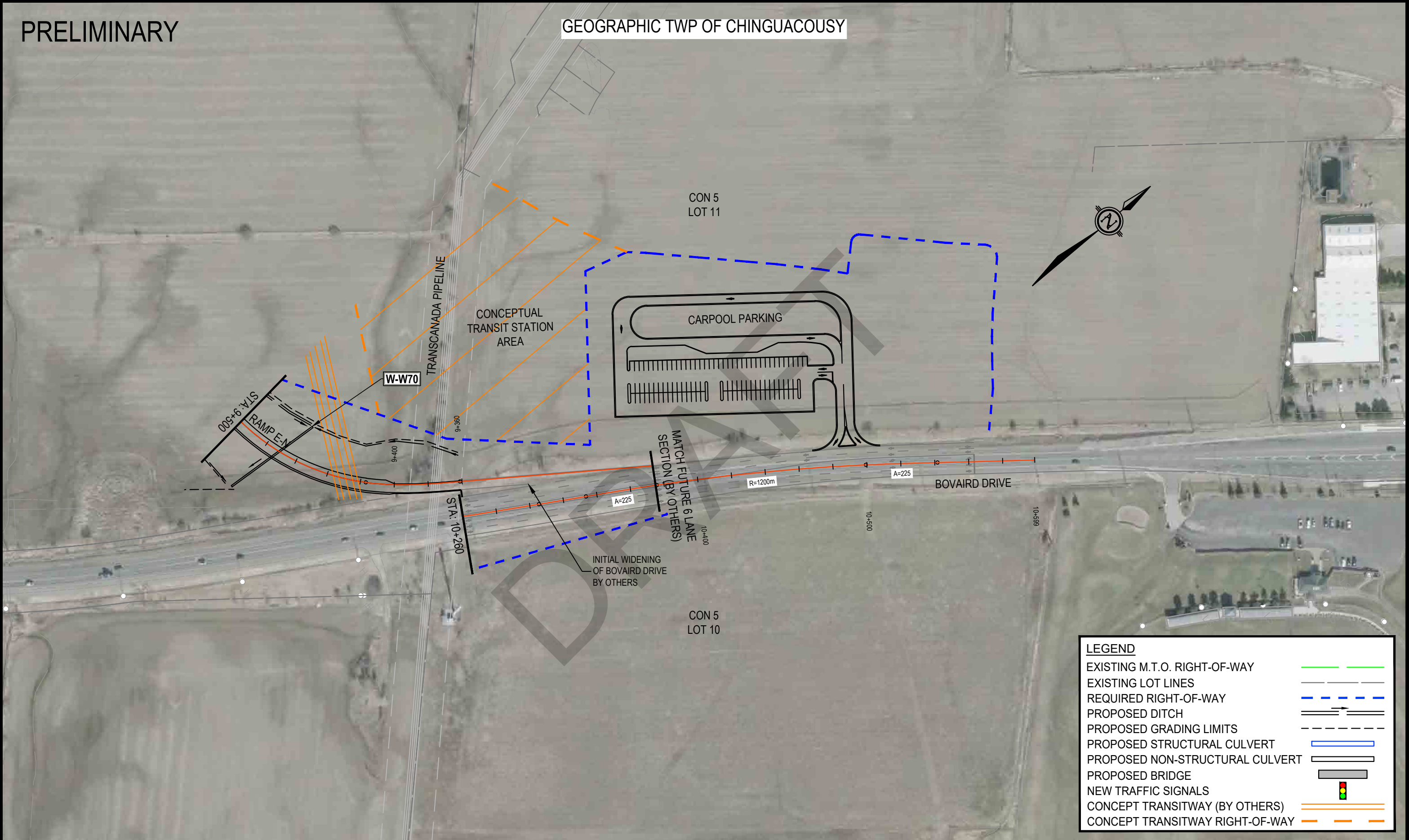


LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



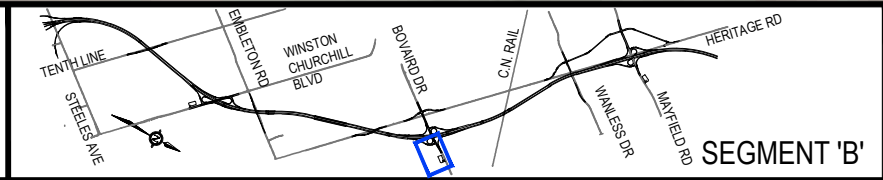
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
BOIVARD DRIVE
STATION 10+260 TO STATION 10+375

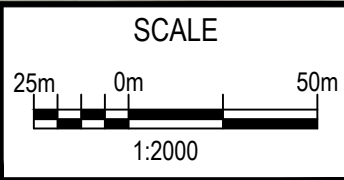


PLATE
B15

PRELIMINARY

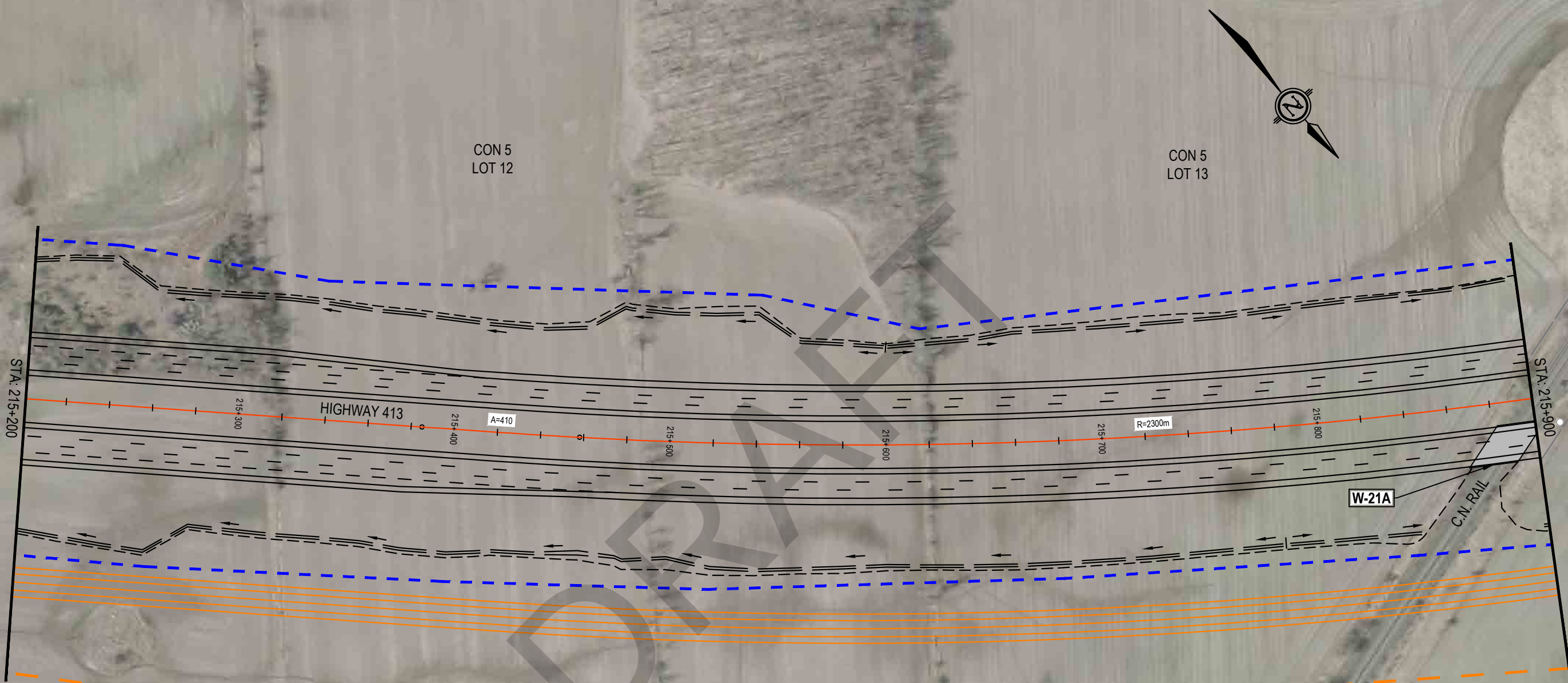
GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

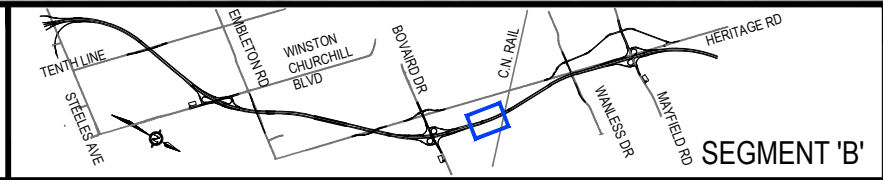
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 215+200 TO STATION 215+900

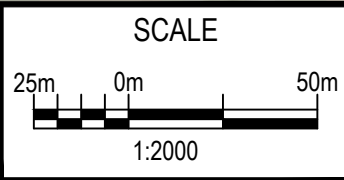
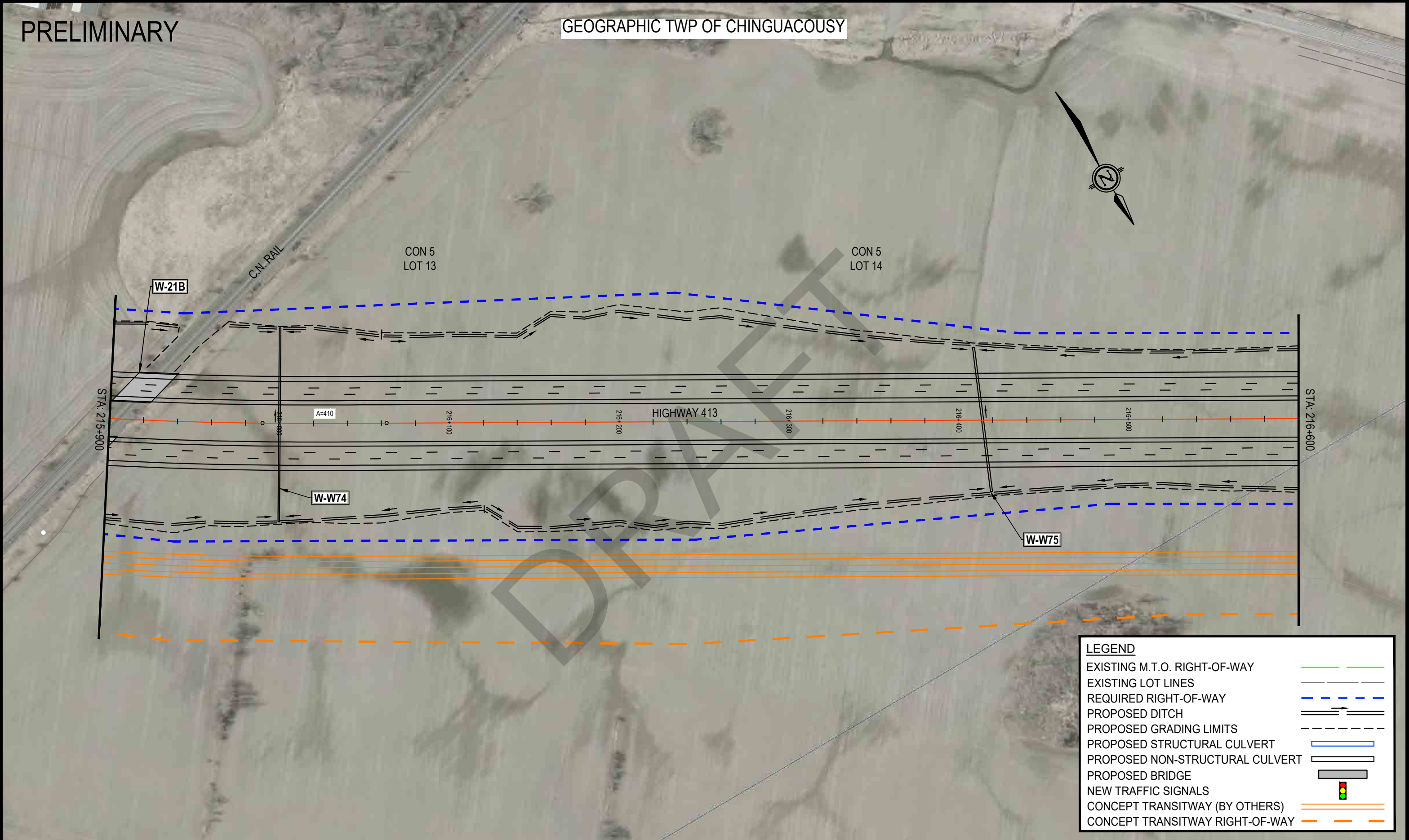


PLATE
B17

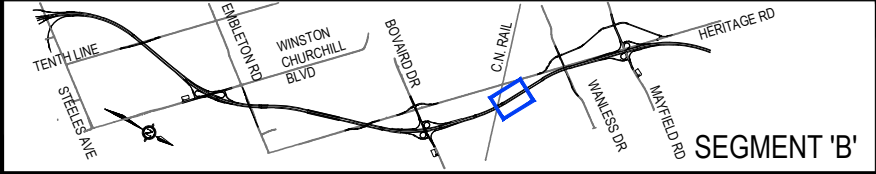
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 215+900 TO STATION 216+600

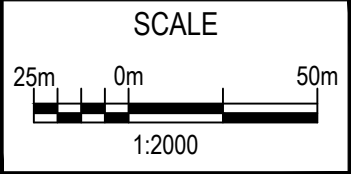


PLATE
B18

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

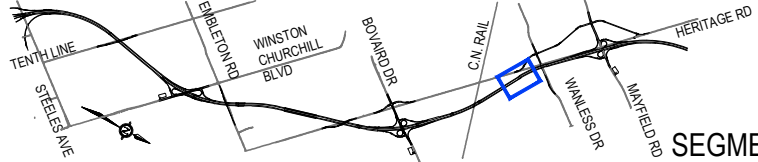
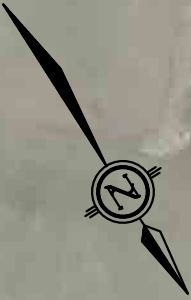
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

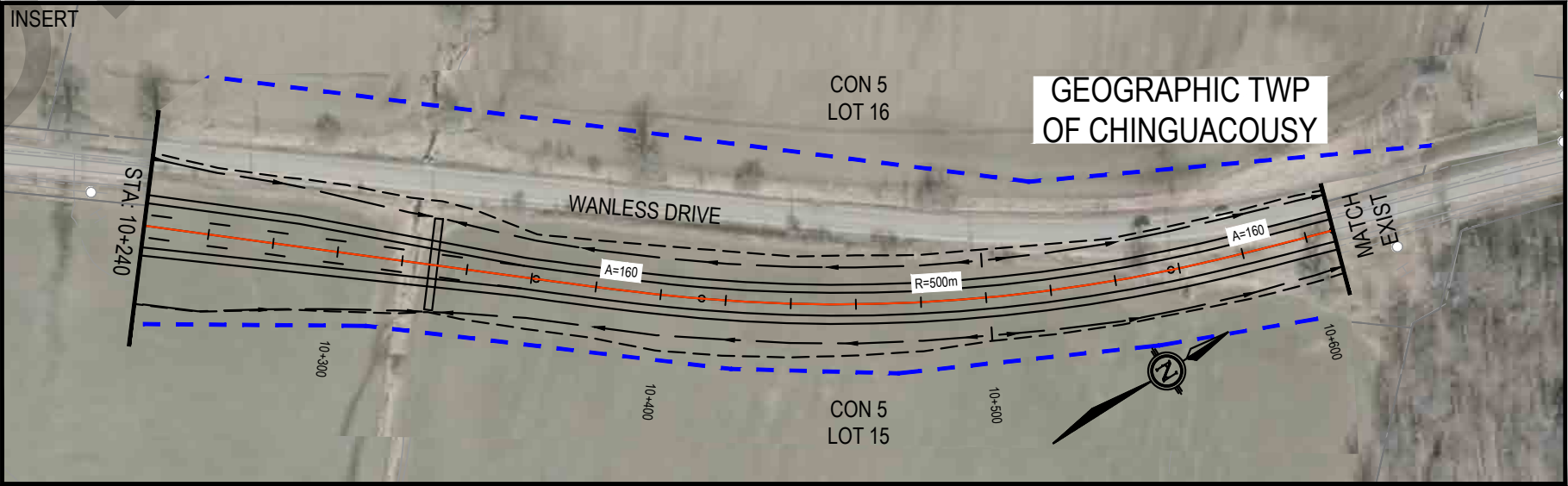
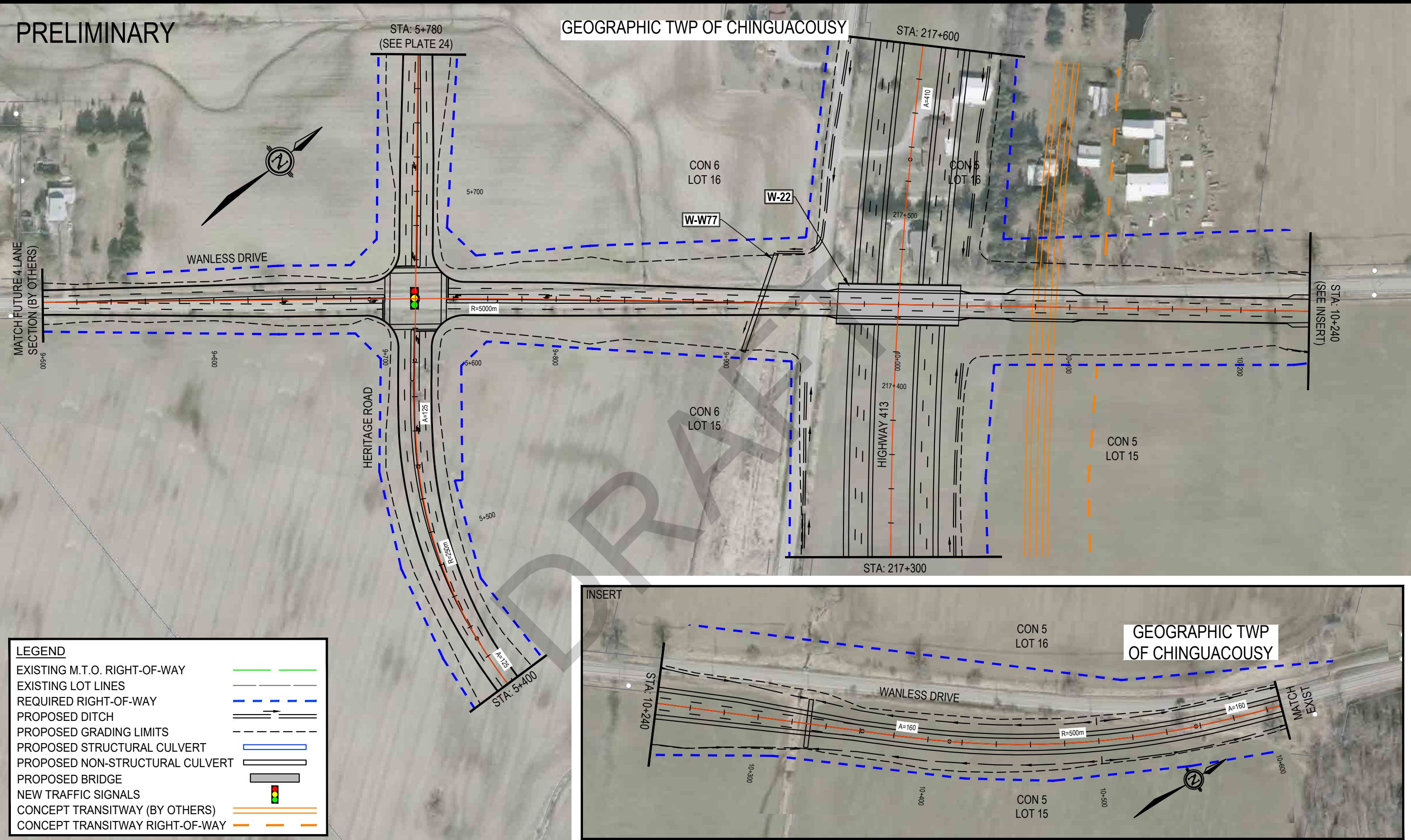
CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



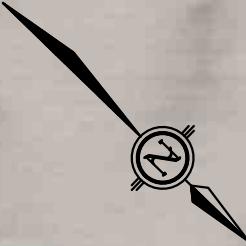
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



CON 6
LOT 16

CON 6
LOT 17

POND 4

W-W86

POND CONNECTION
TO WATERCOURSE

HIGHWAY 413

W-W81

CON 5
LOT 16

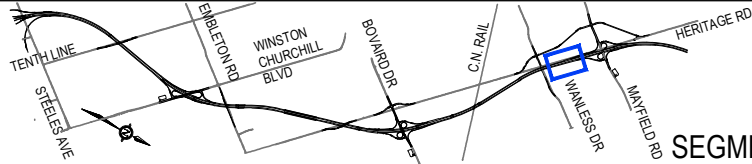
CON 5
LOT 17

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN

HIGHWAY 413

STATION 217+600 TO STATION 218+300

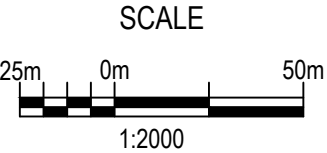


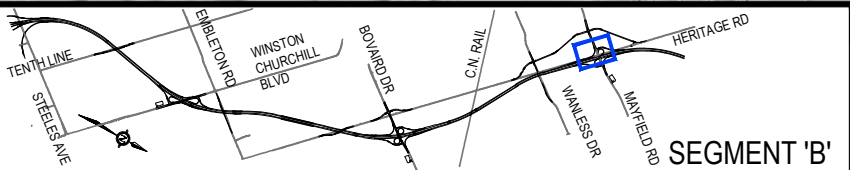
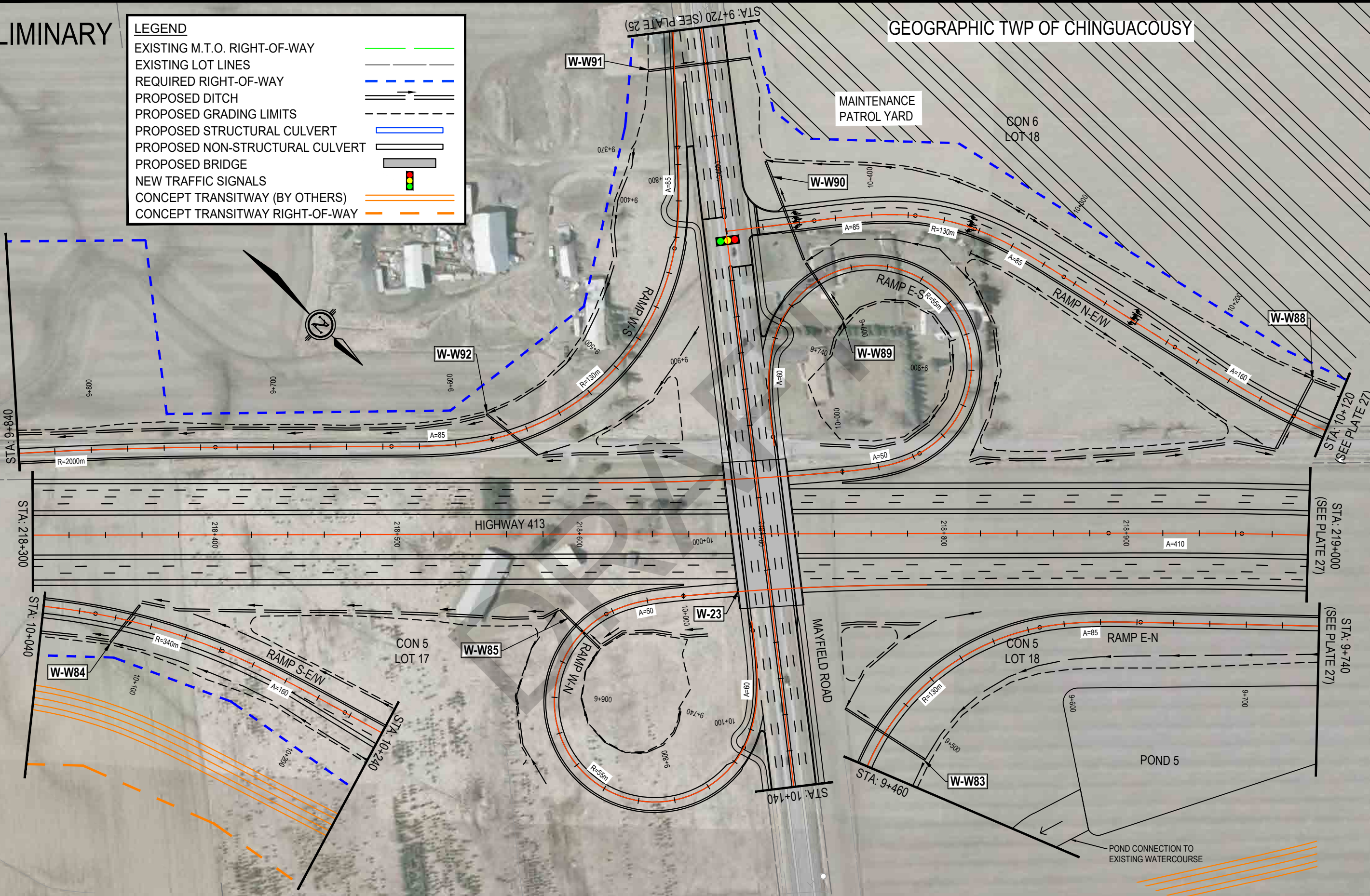
PLATE
B21

PRELIMINARY

LEGEND

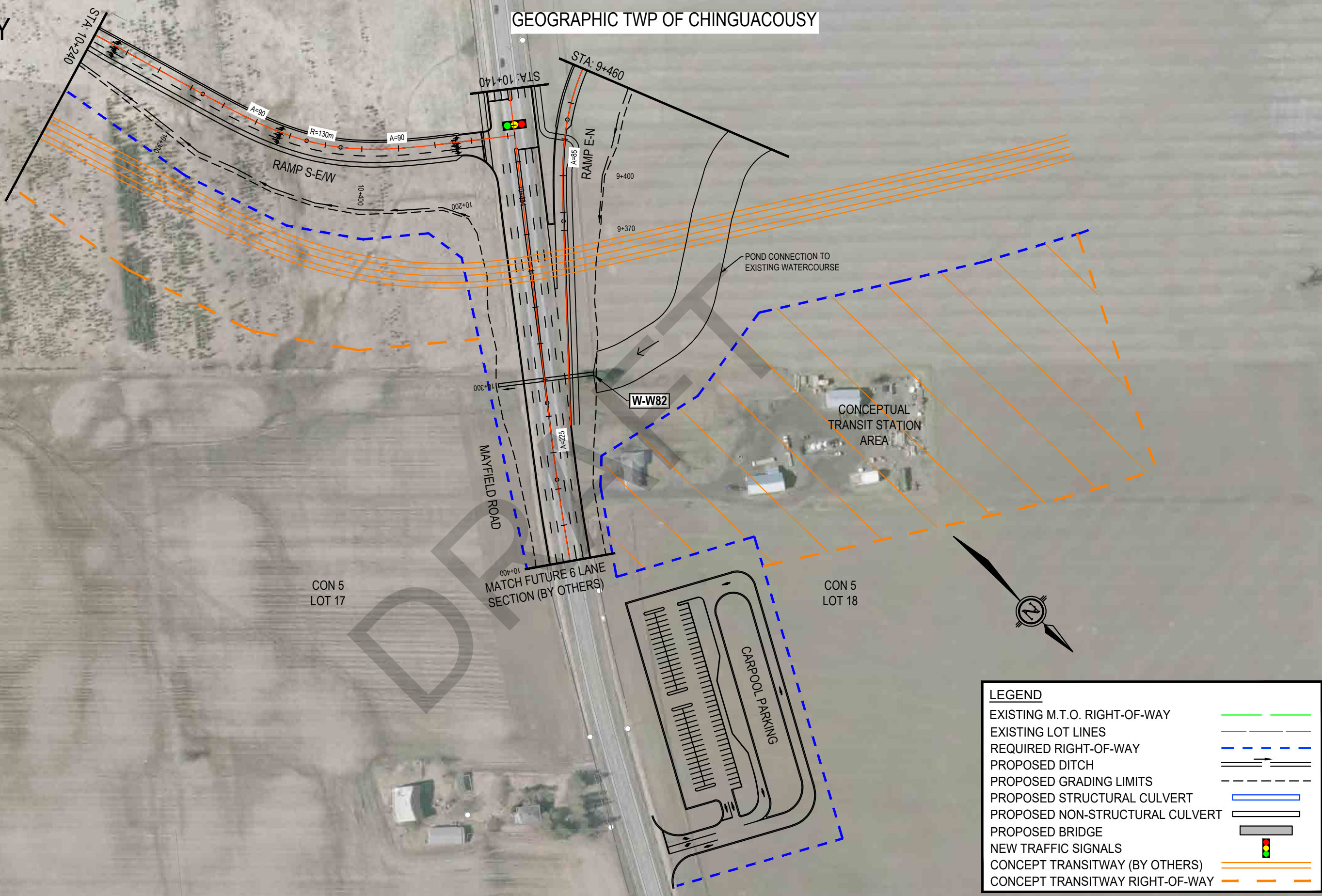
EXISTING M.T.O. RIGHT-OF-WAY	---
EXISTING LOT LINES	---
REQUIRED RIGHT-OF-WAY	---
PROPOSED DITCH	---
PROPOSED GRADING LIMITS	---
PROPOSED STRUCTURAL CULVERT	---
PROPOSED NON-STRUCTURAL CULVERT	---
PROPOSED BRIDGE	---
NEW TRAFFIC SIGNALS	---
CONCEPT TRANSITWAY (BY OTHERS)	---
CONCEPT TRANSITWAY RIGHT-OF-WAY	---

GEOGRAPHIC TWP OF CHINGUACOUSY

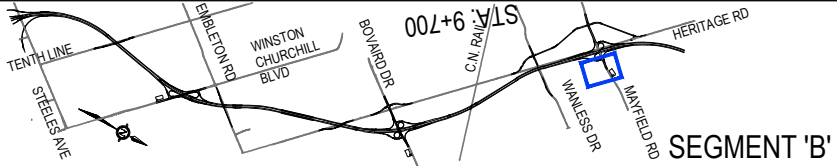


PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

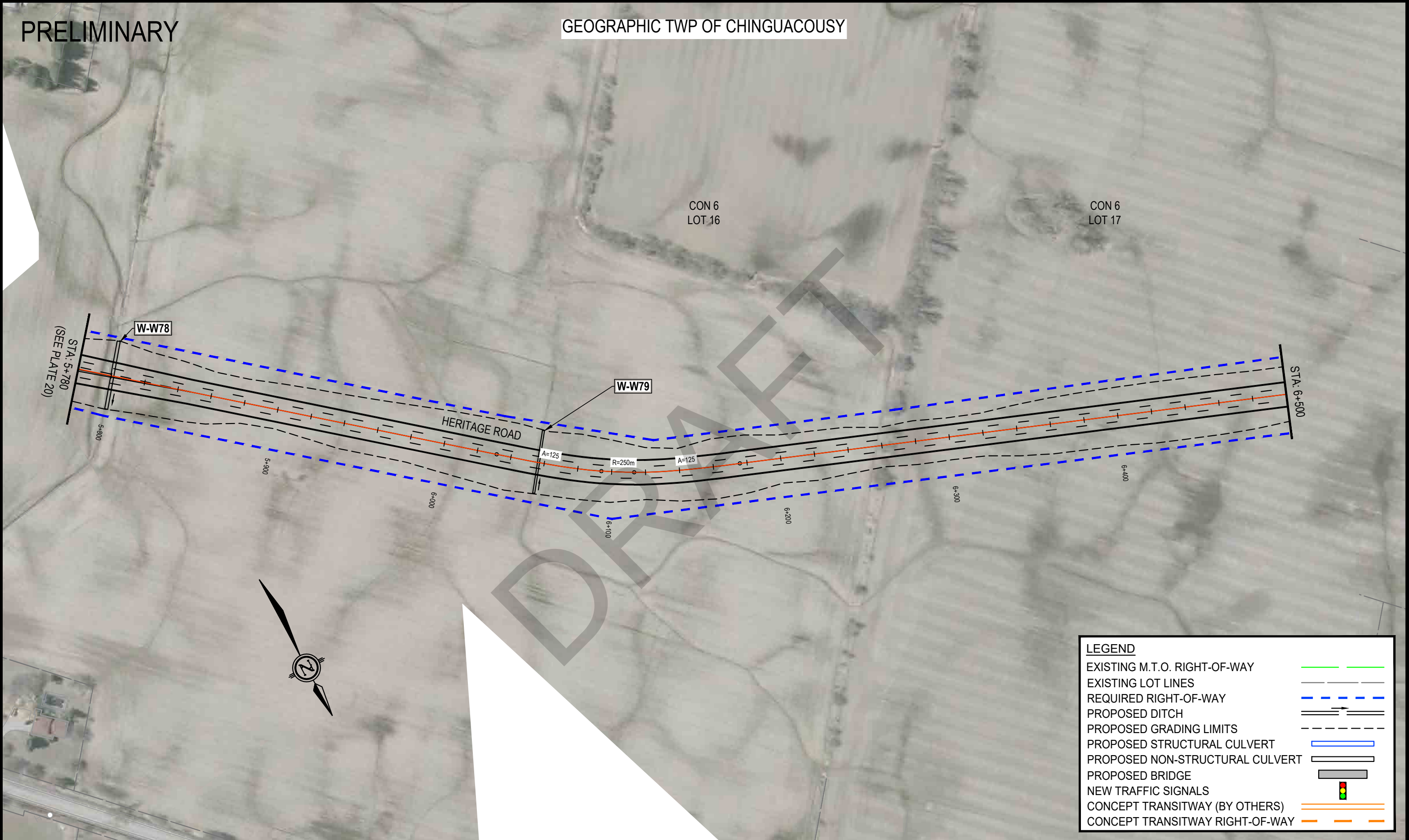


LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



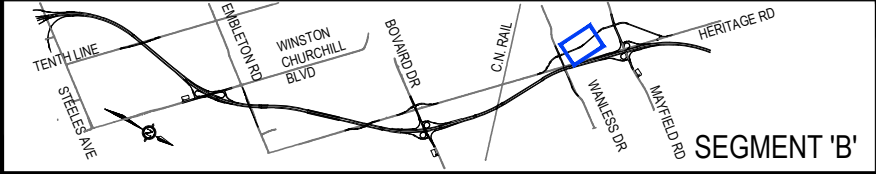
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HERITAGE ROAD
STATION 5+780 TO STATION 6+500

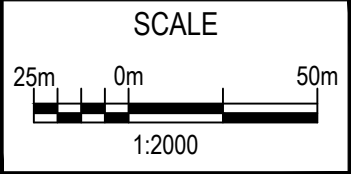
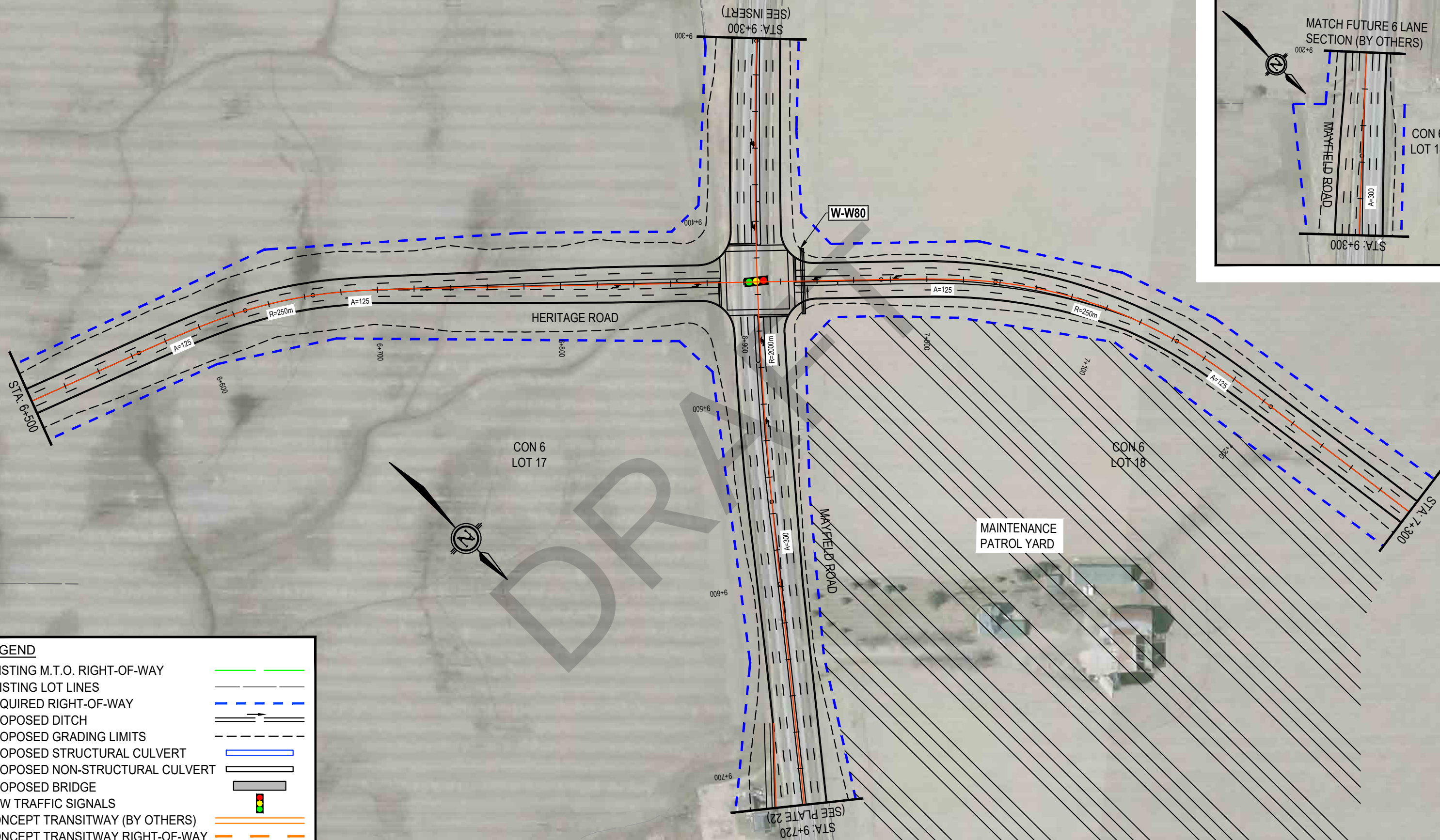
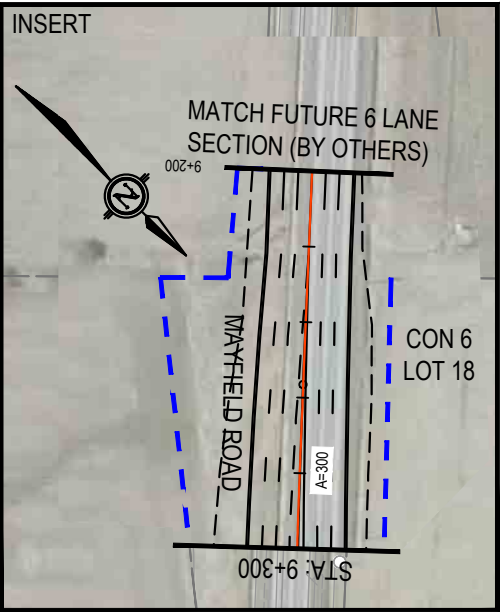


PLATE
B24

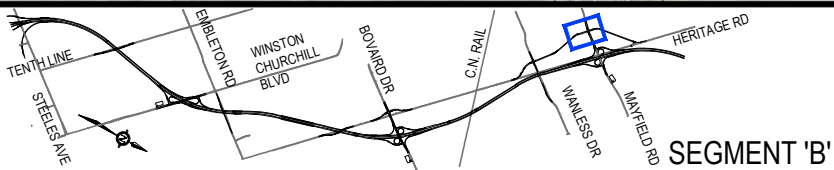
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

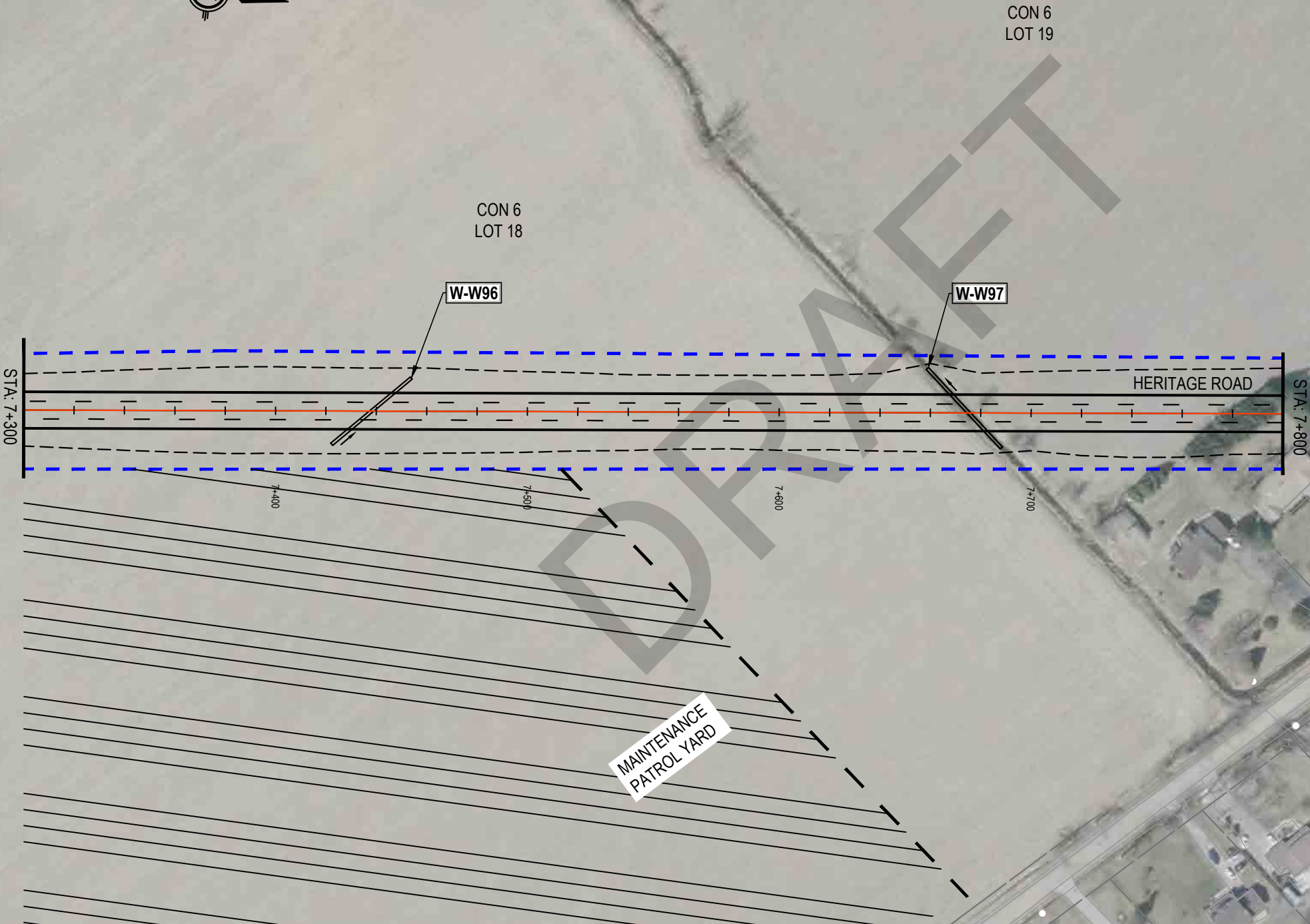
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

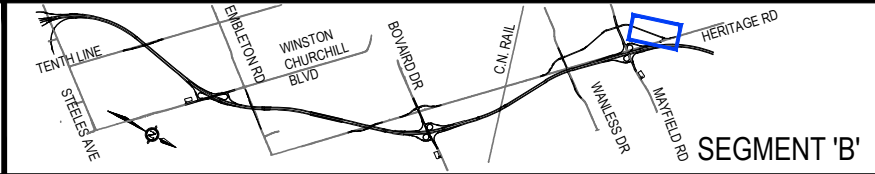
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HERITAGE ROAD
STATION 7+300 TO STATION 8+000

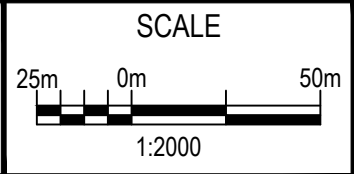
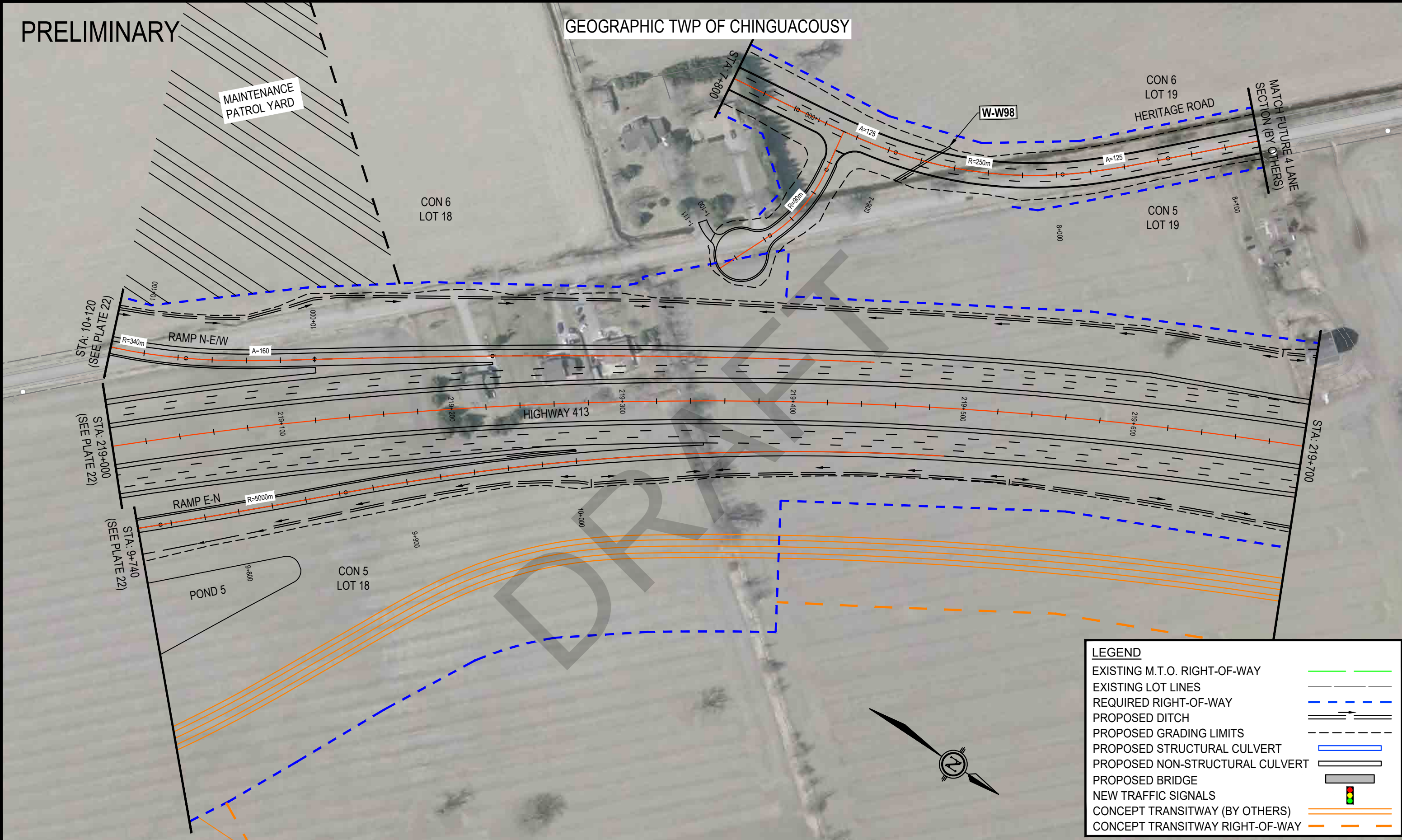


PLATE
B26

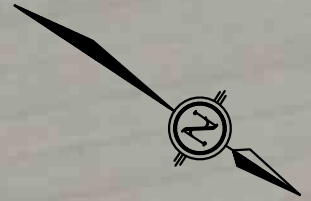
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GEOGRAPHIC TWP OF CHINGUACOUSY

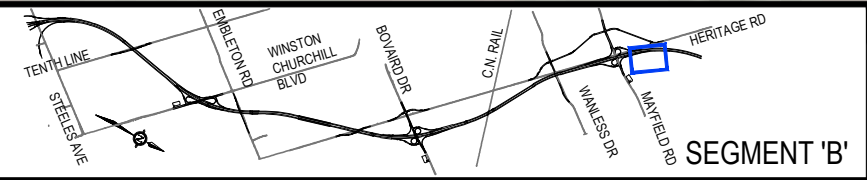


LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 219+000 TO STATION 219+700

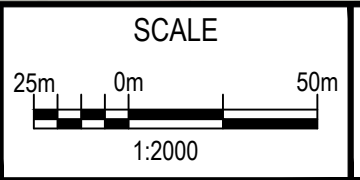
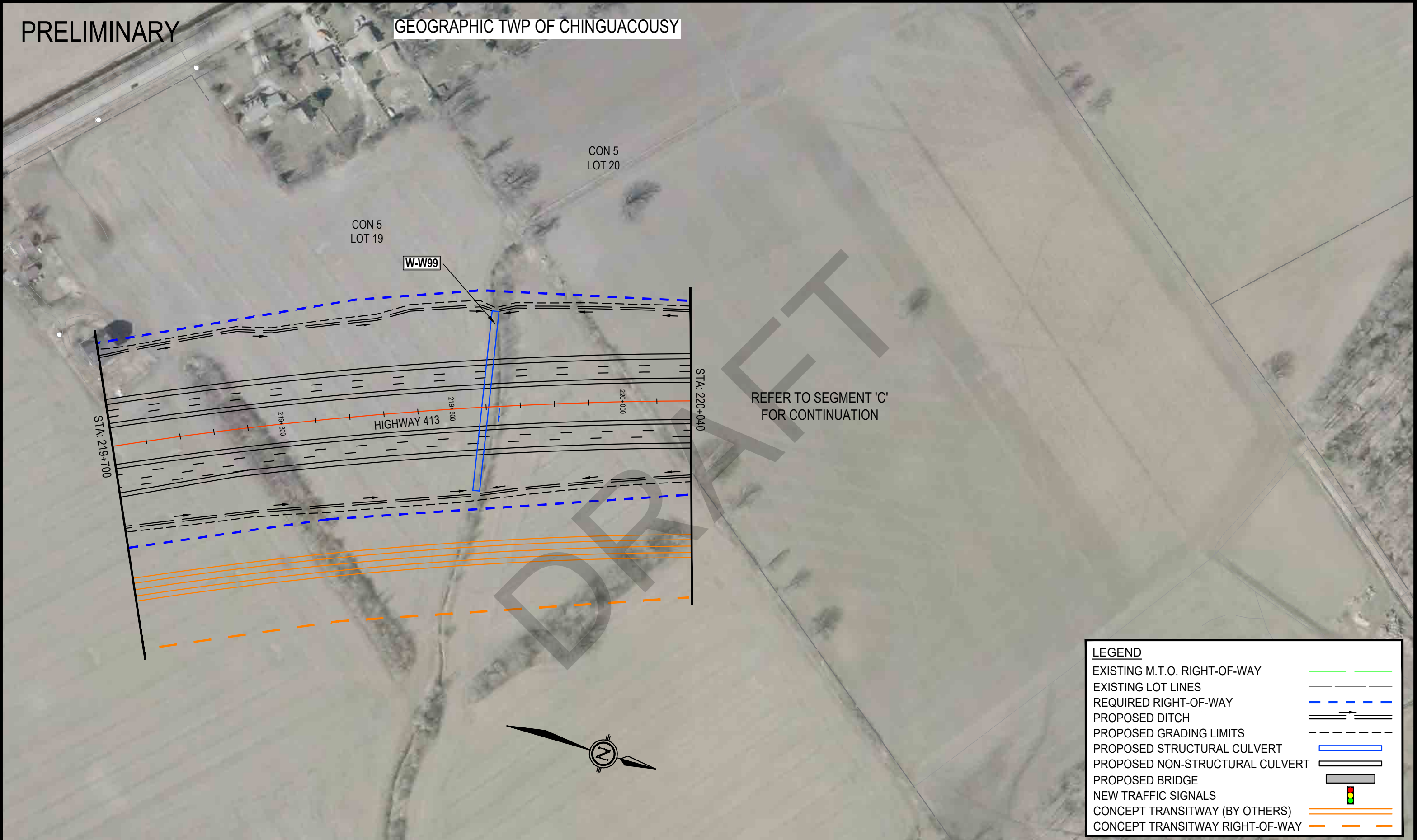


PLATE
B27

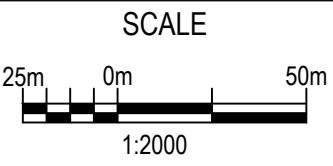
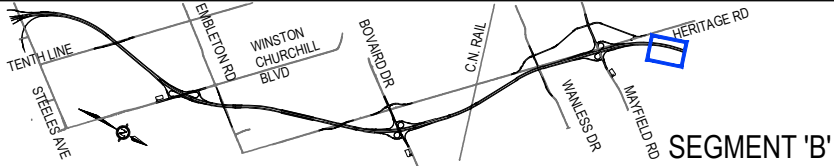
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



REFER TO SEGMENT 'C'
FOR CONTINUATION

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

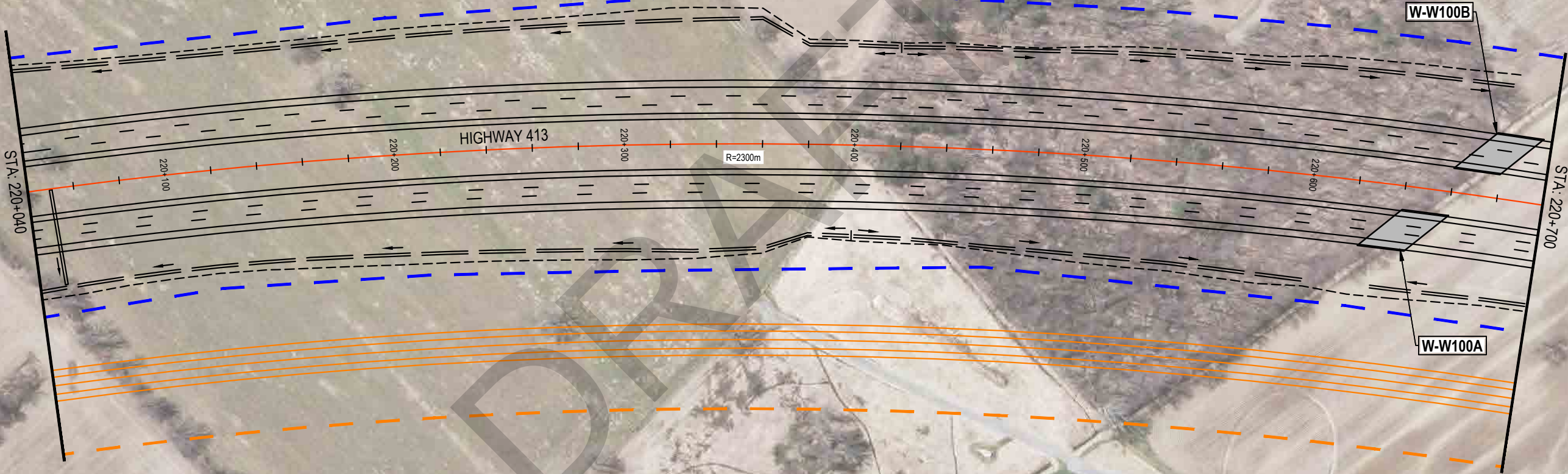
CONCEPT TRANSITWAY RIGHT-OF-WAY

CON 5
LOT 20

CON 5
LOT 21



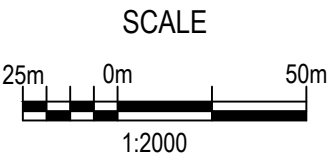
REFER TO
SEGMENT 'B' FOR
CONTINUATION



CON 5
LOT 19



SEGMENT 'C'



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



CON 5
LOT 21

W-W101

HIGHWAY 413

STA: 220+700

STA: 221+400

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

CON 5
LOT 20

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'C'

PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 220+700 TO STATION 221+400

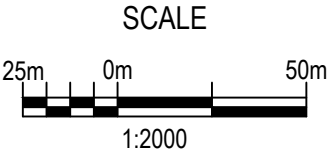
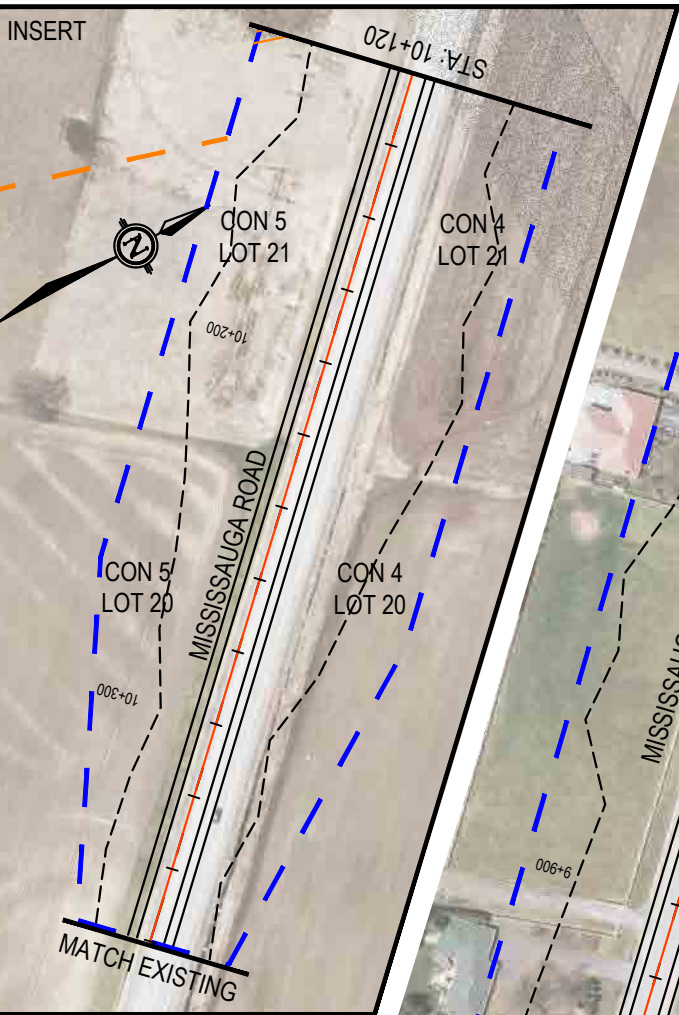


PLATE
C2

PRELIMINARY

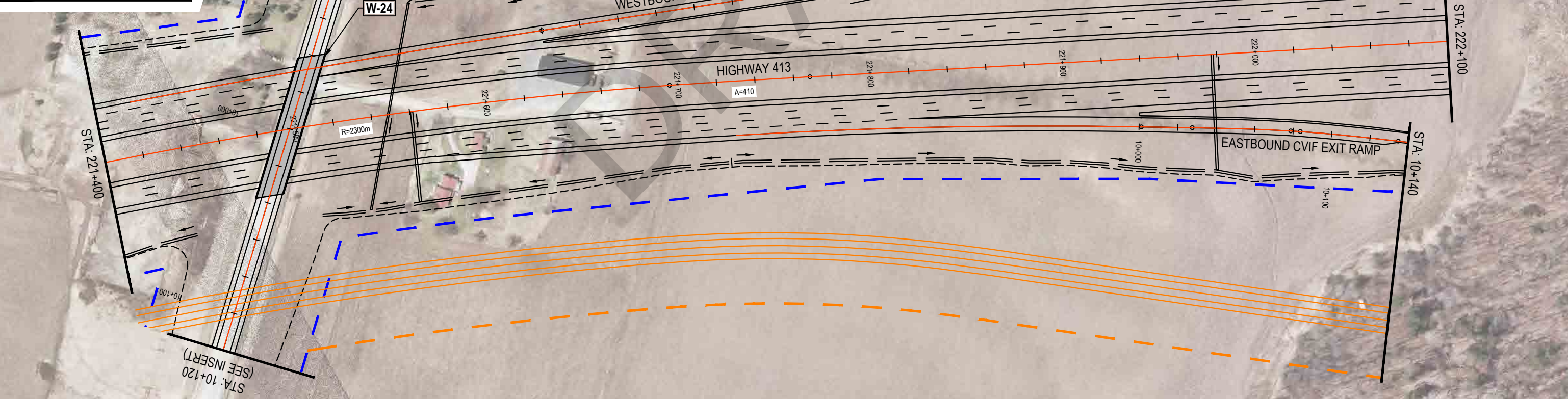
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GEOGRAPHIC TWP OF CHINGUACOUSY

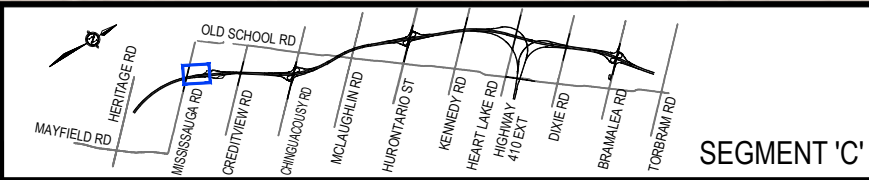
LEGEND

- EXISTING M.T.O. RIGHT-OF-WAY
- EXISTING LOT LINES
- REQUIRED RIGHT-OF-WAY
- PROPOSED DITCH
- PROPOSED GRADING LIMITS
- PROPOSED STRUCTURAL CULVERT
- PROPOSED NON-STRUCTURAL CULVERT
- PROPOSED BRIDGE
- NEW TRAFFIC SIGNALS
- CONCEPT TRANSITWAY (BY OTHERS)
- CONCEPT TRANSITWAY RIGHT-OF-WAY



wsp
AECOM
Ontario Ministry of Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 221+400 TO STATION 222+100

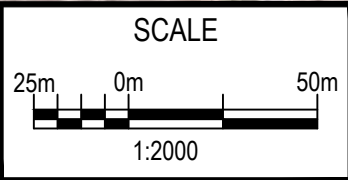
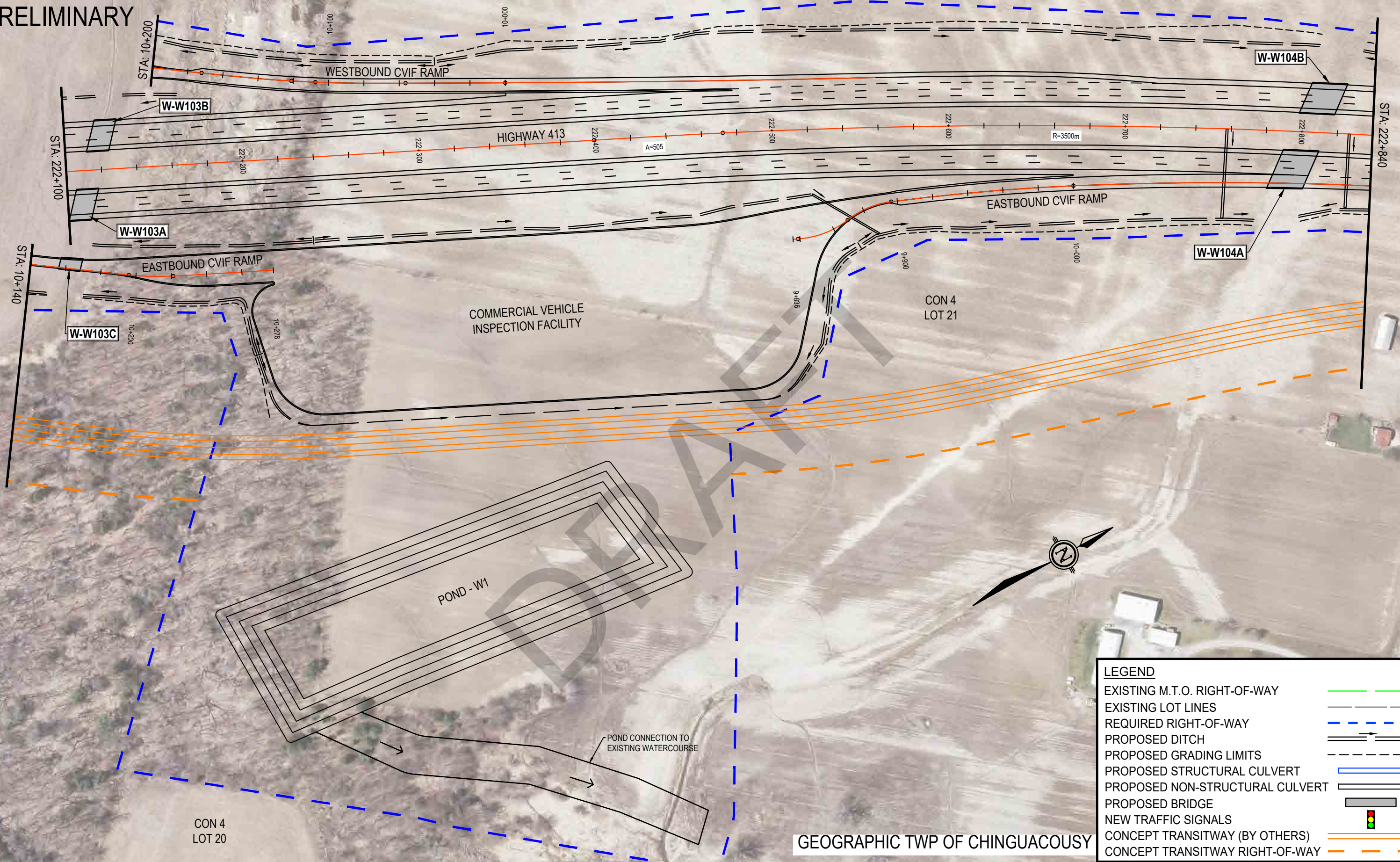


PLATE
C3

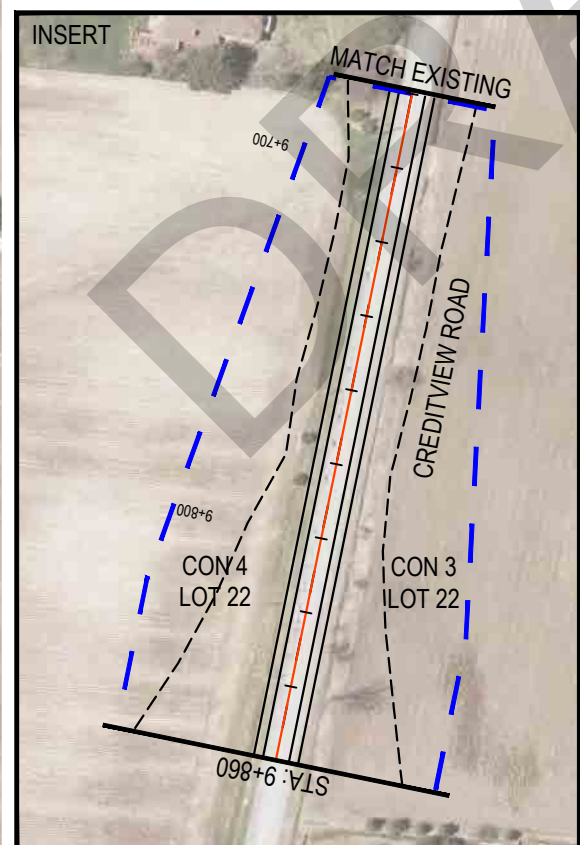
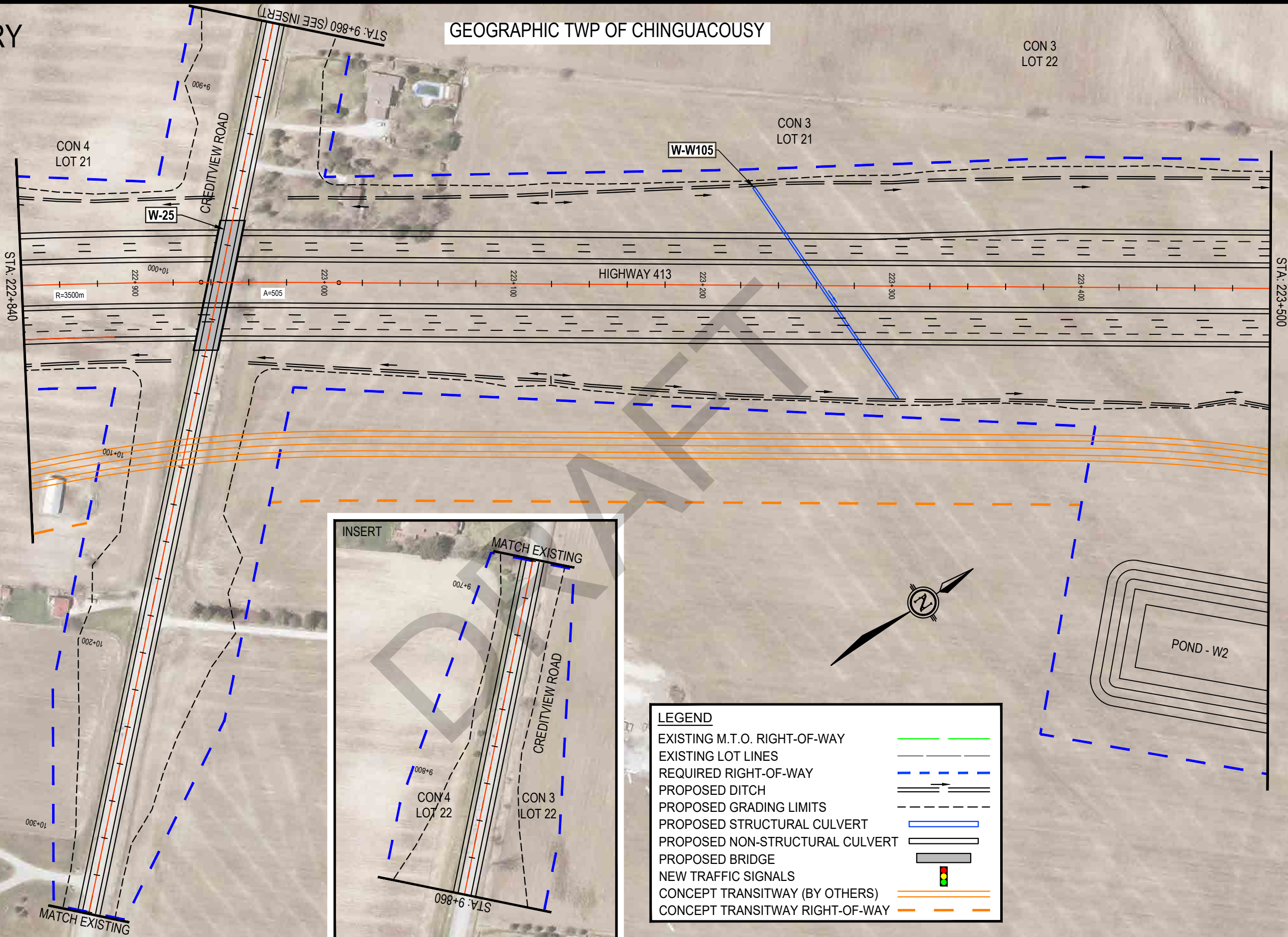
PRELIMINARY



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

CON 3
LOT 22

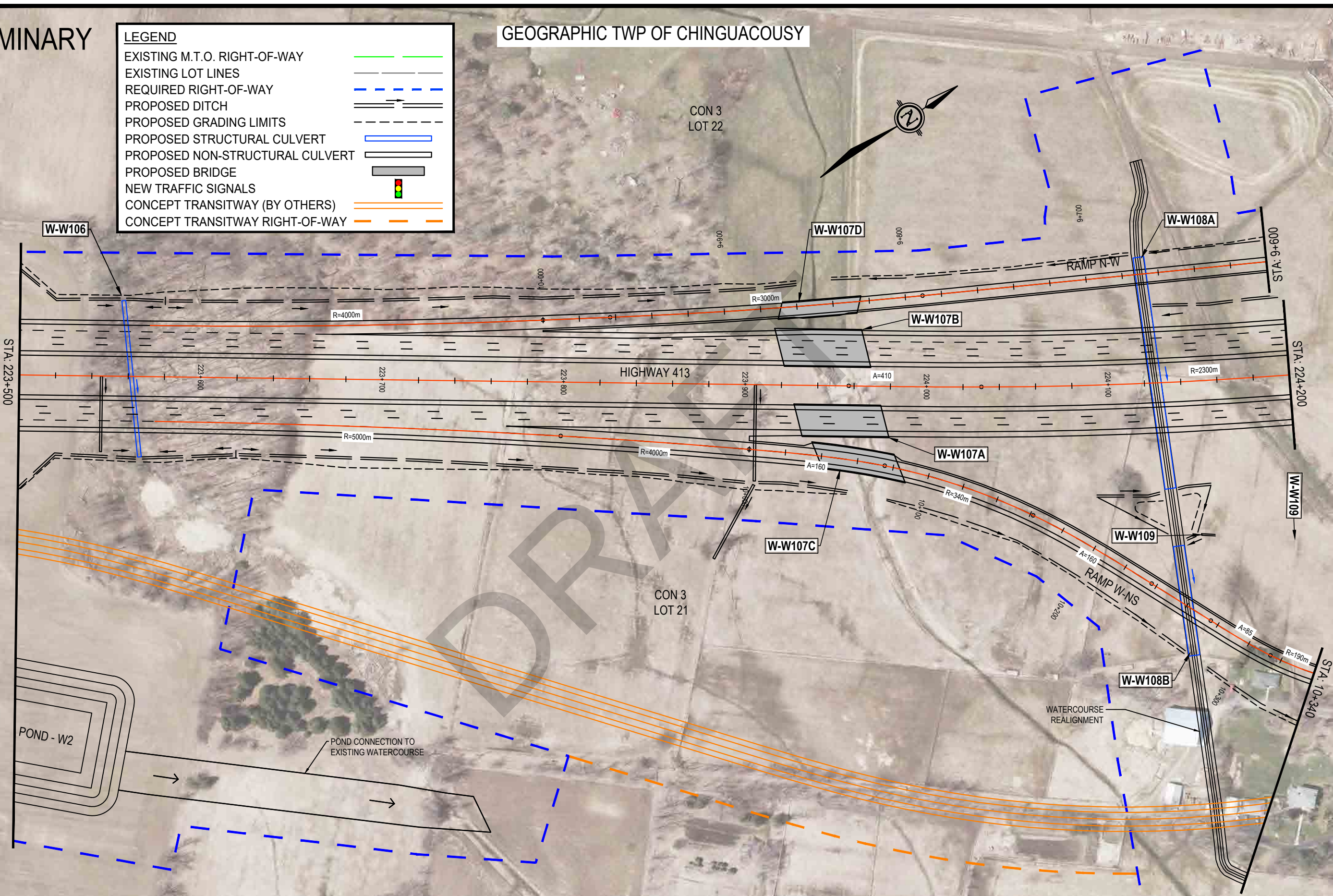


LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

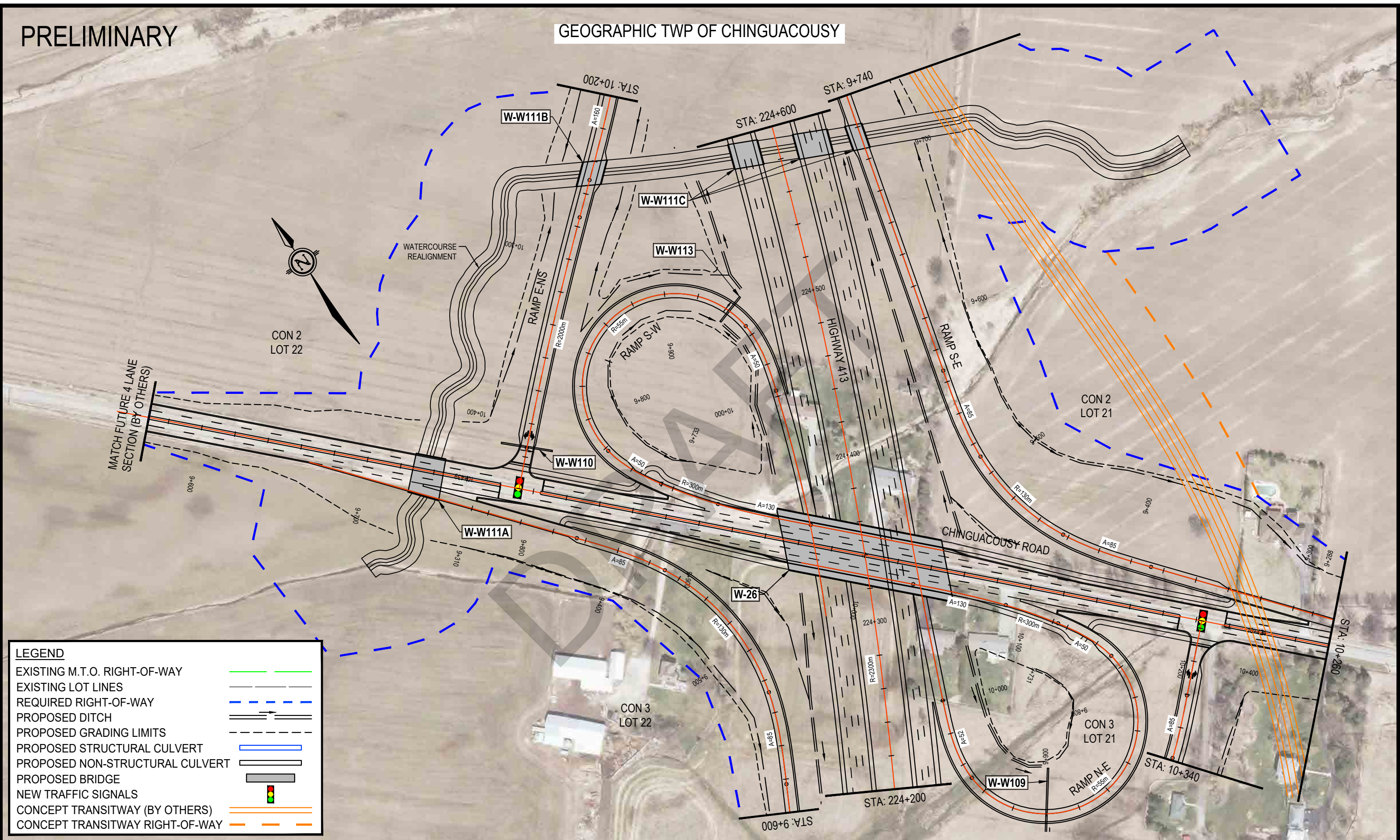
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

GEOGRAPHIC TWP OF CHINGUACOUSY



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

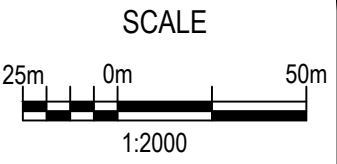


LEGEND

- | | |
|---------------------------------|--|
| EXISTING M.T.O. RIGHT-OF-WAY | |
| EXISTING LOT LINES | |
| REQUIRED RIGHT-OF-WAY | |
| PROPOSED DITCH | |
| PROPOSED GRADING LIMITS | |
| PROPOSED STRUCTURAL CULVERT | |
| PROPOSED NON-STRUCTURAL CULVERT | |
| PROPOSED BRIDGE | |
| NEW TRAFFIC SIGNALS | |
| CONCEPT TRANSITWAY (BY OTHERS) | |
| CONCEPT TRANSITWAY RIGHT-OF-WAY | |

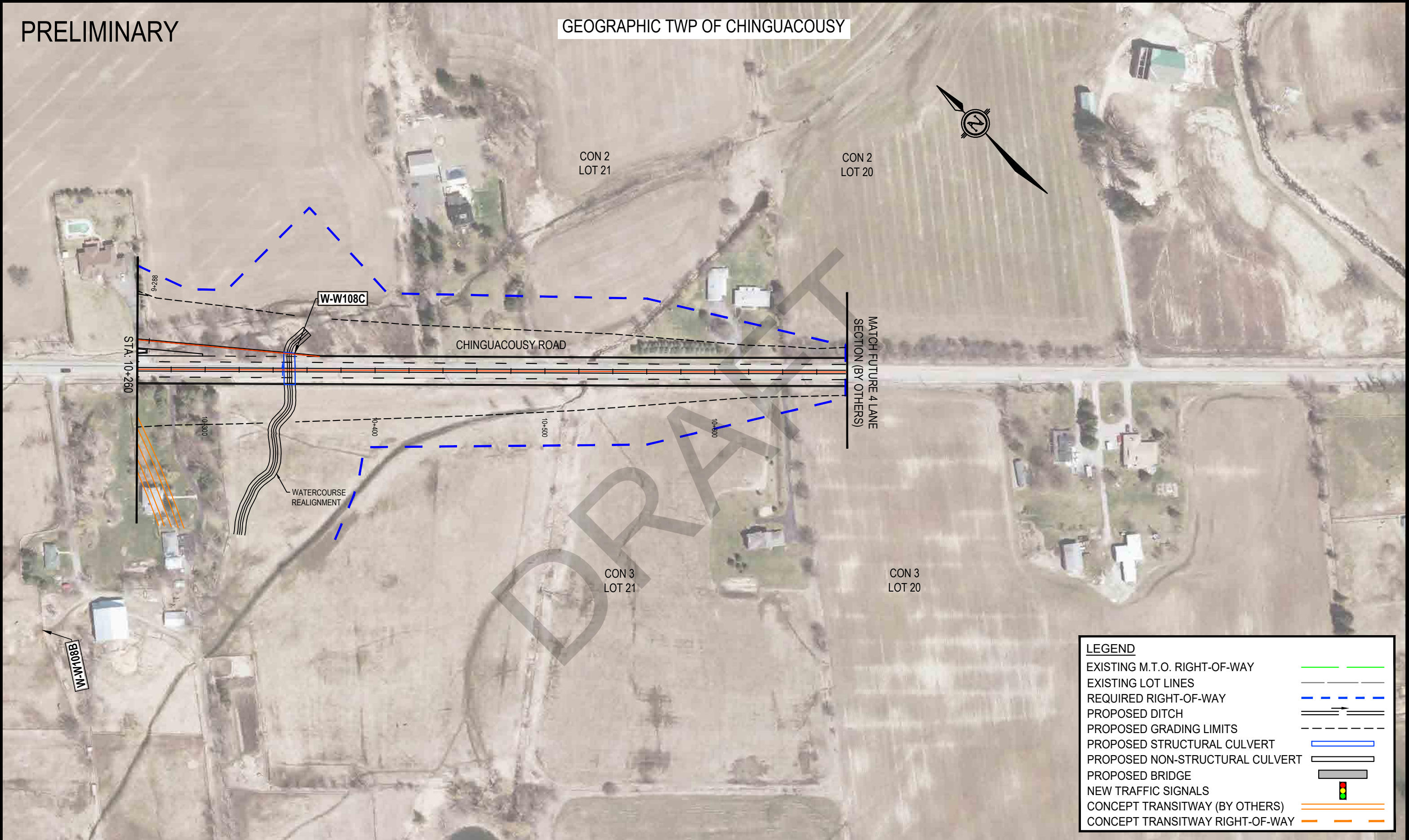


SEGMENT 'C'



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
CHINGUACOUSY ROAD
STATION 10+260 TO STATION 10+680

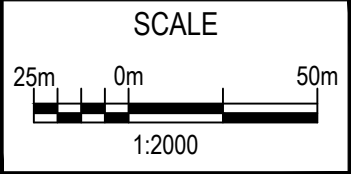
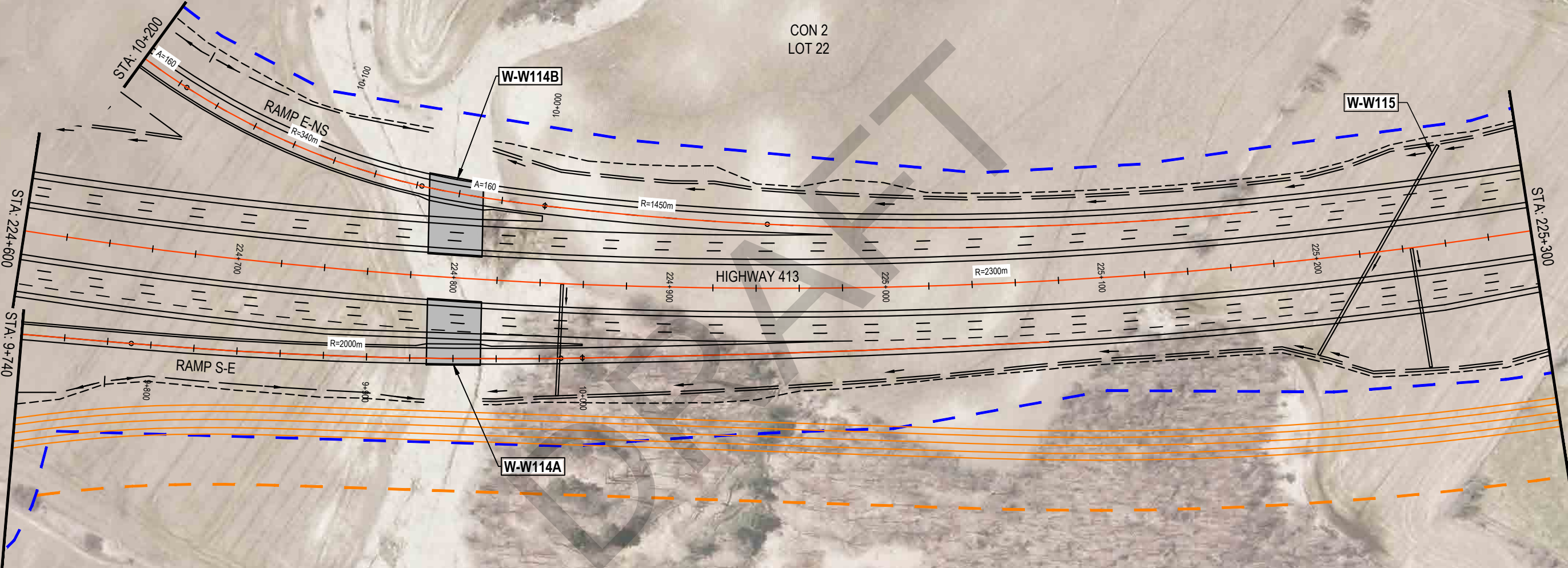


PLATE
C8

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

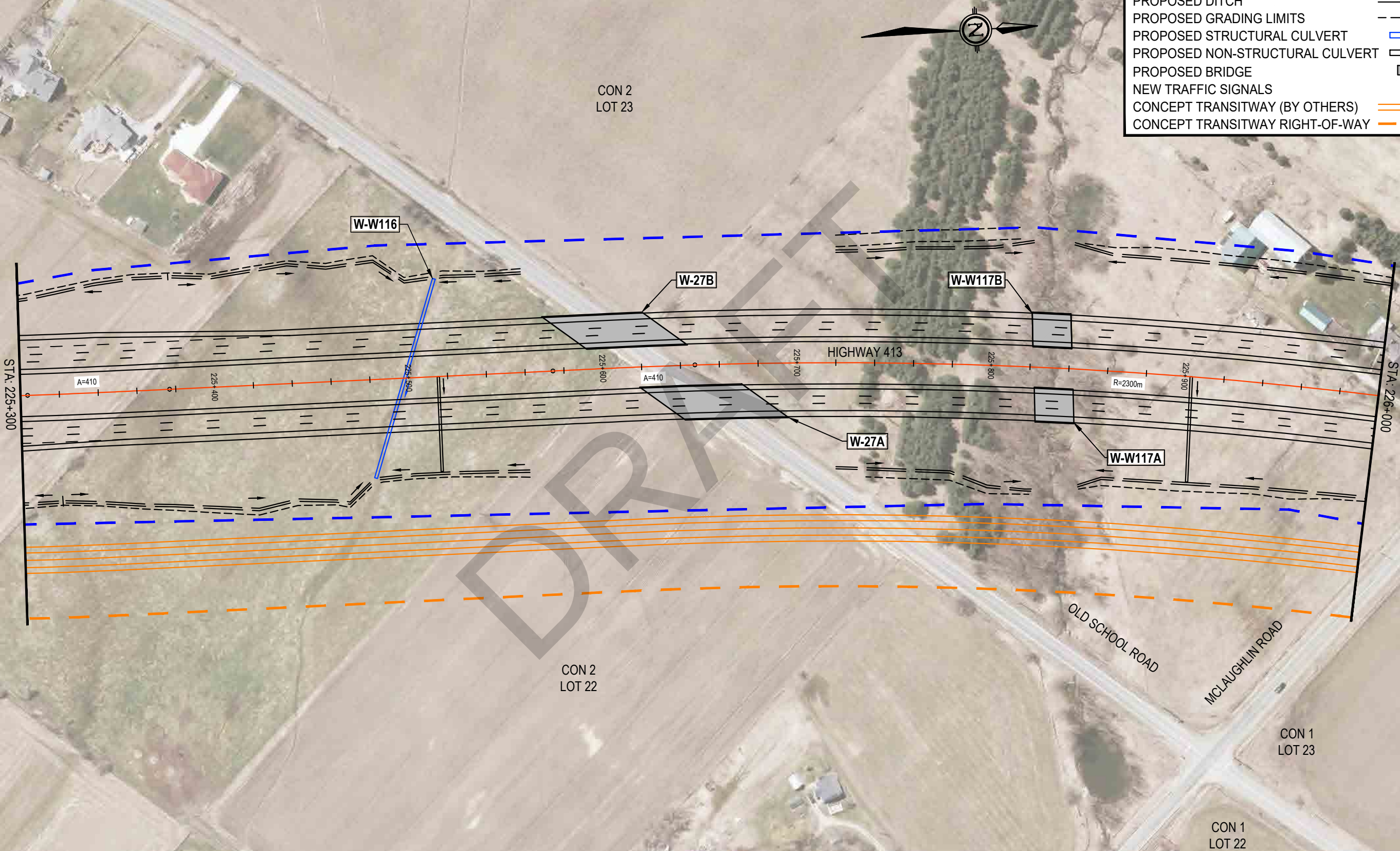
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

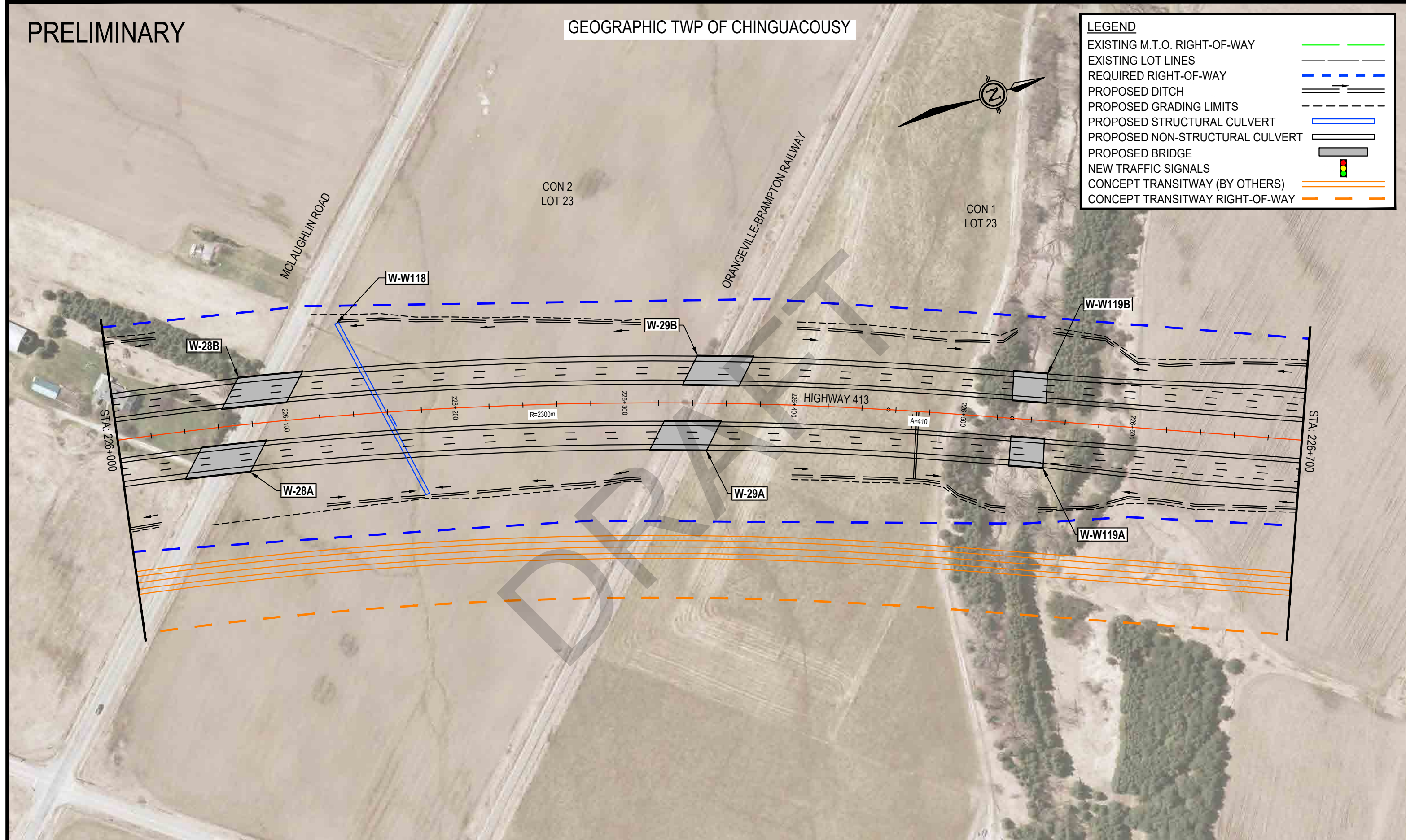
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



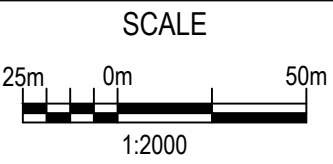
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



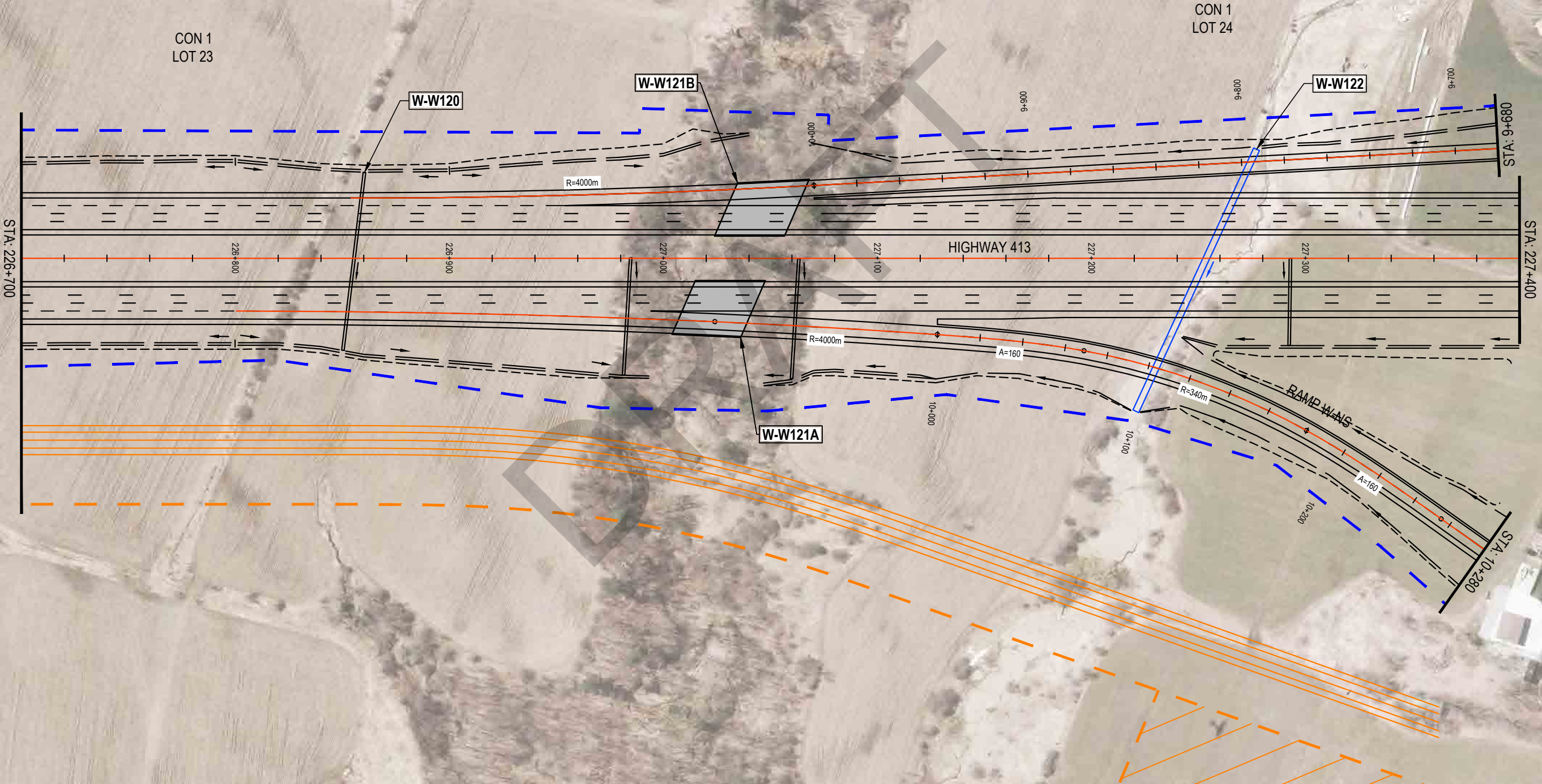
SEGMENT 'C'



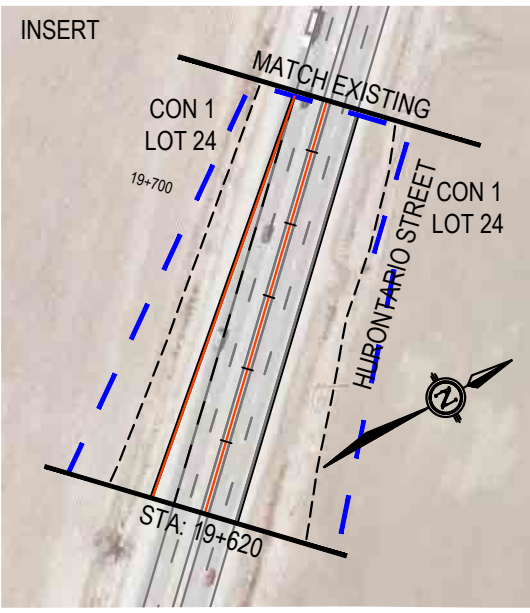
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



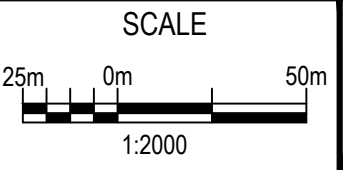
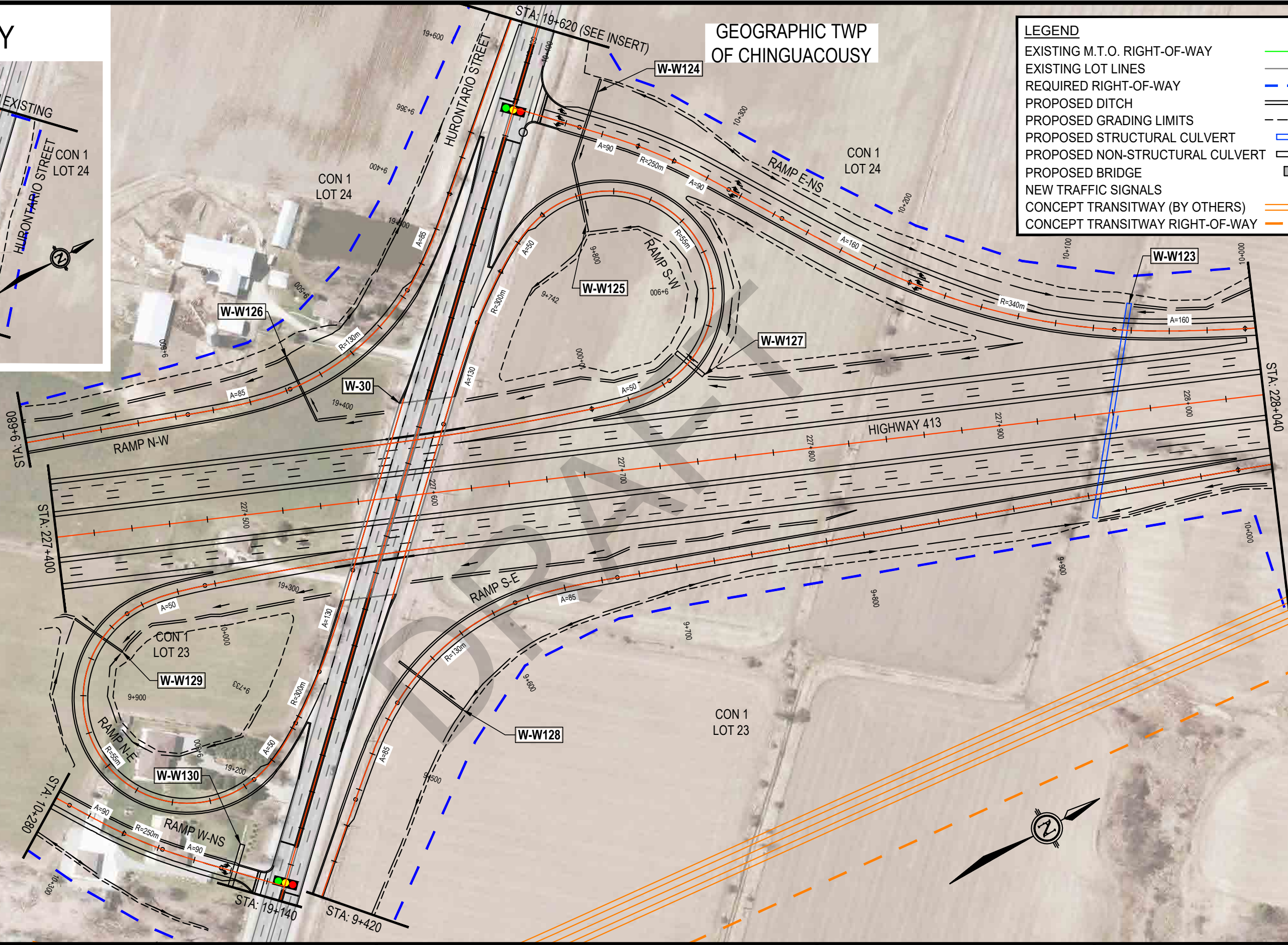
PRELIMINARY



GEOGRAPHIC TWP
OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

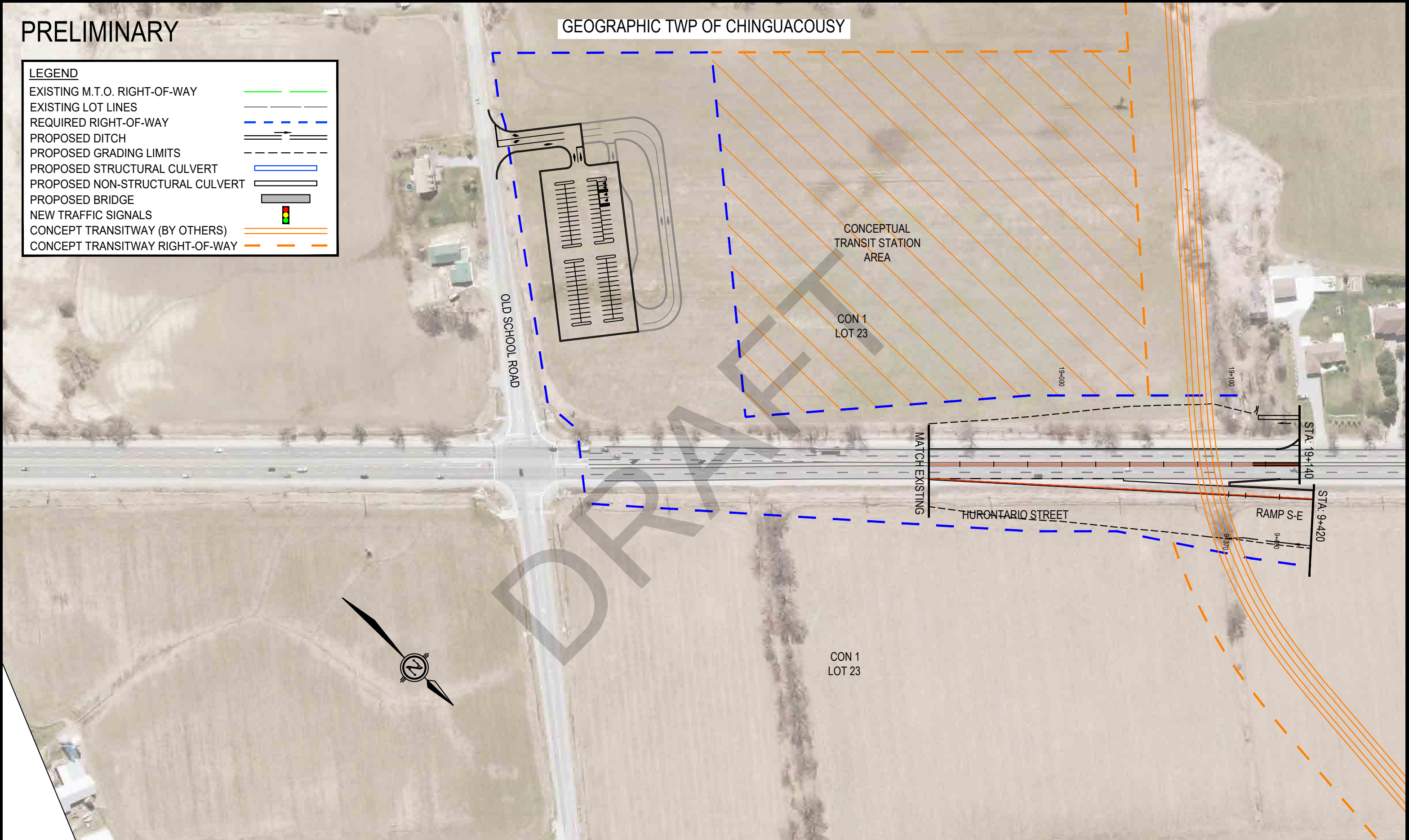
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

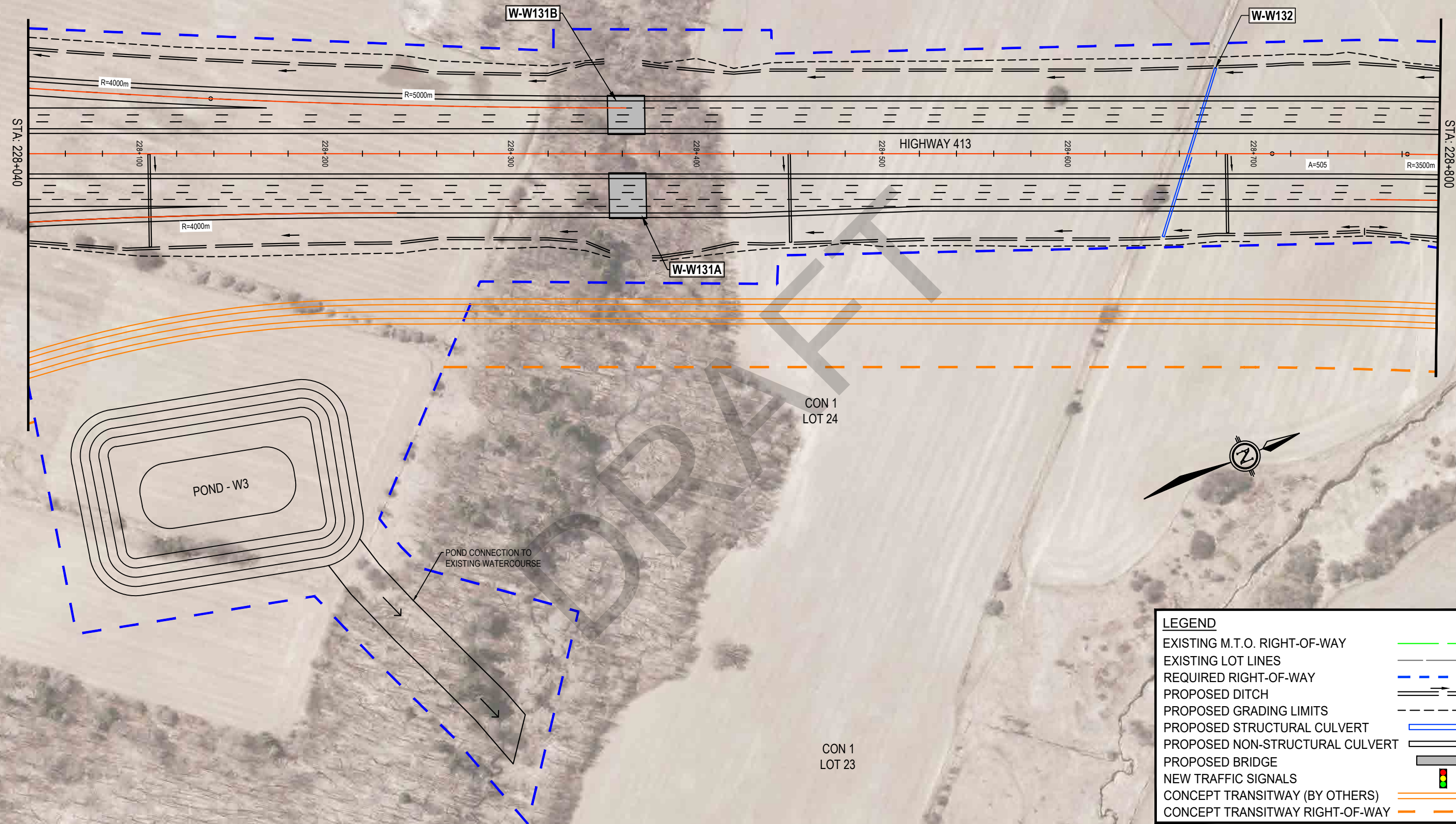
CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



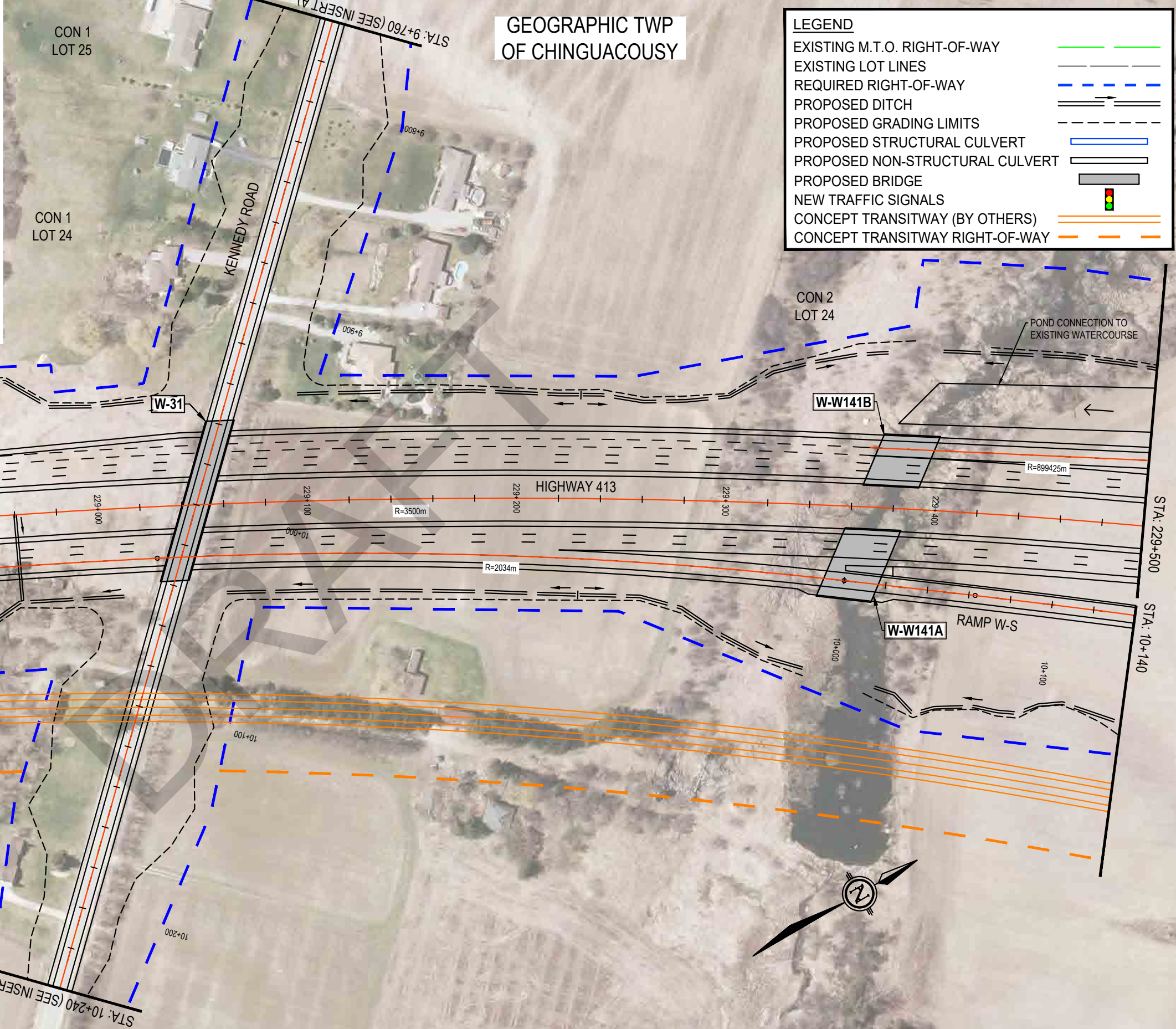
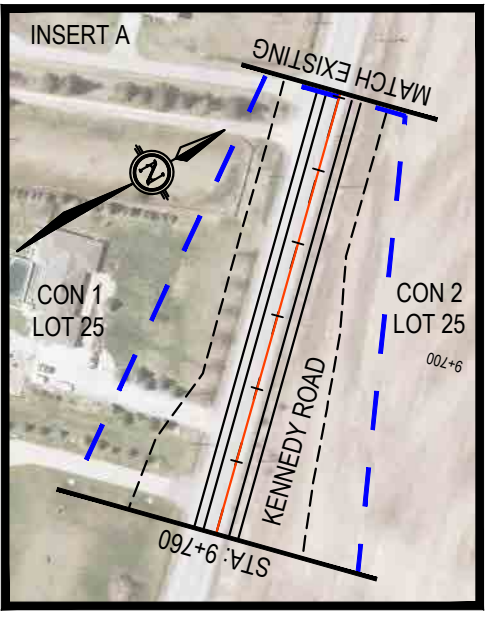
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



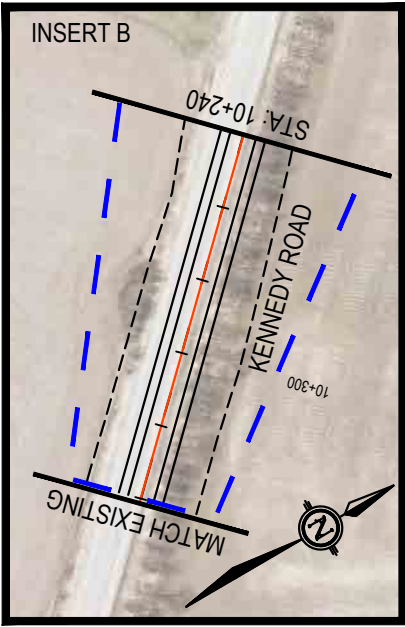
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY



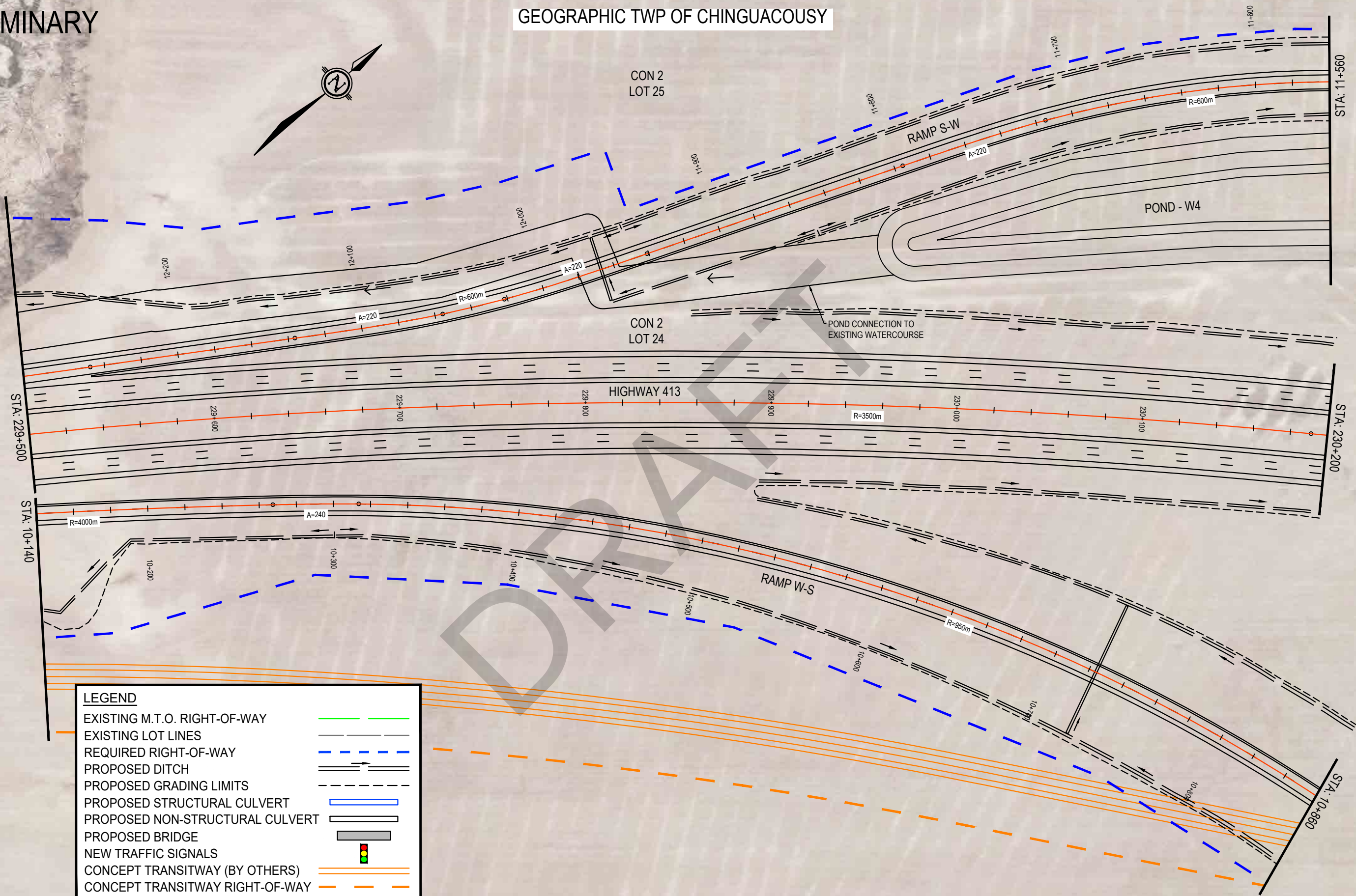
LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	---
EXISTING LOT LINES	---
REQUIRED RIGHT-OF-WAY	---
PROPOSED DITCH	---
PROPOSED GRADING LIMITS	---
PROPOSED STRUCTURAL CULVERT	---
PROPOSED NON-STRUCTURAL CULVERT	---
PROPOSED BRIDGE	---
NEW TRAFFIC SIGNALS	---
CONCEPT TRANSITWAY (BY OTHERS)	---
CONCEPT TRANSITWAY RIGHT-OF-WAY	---



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

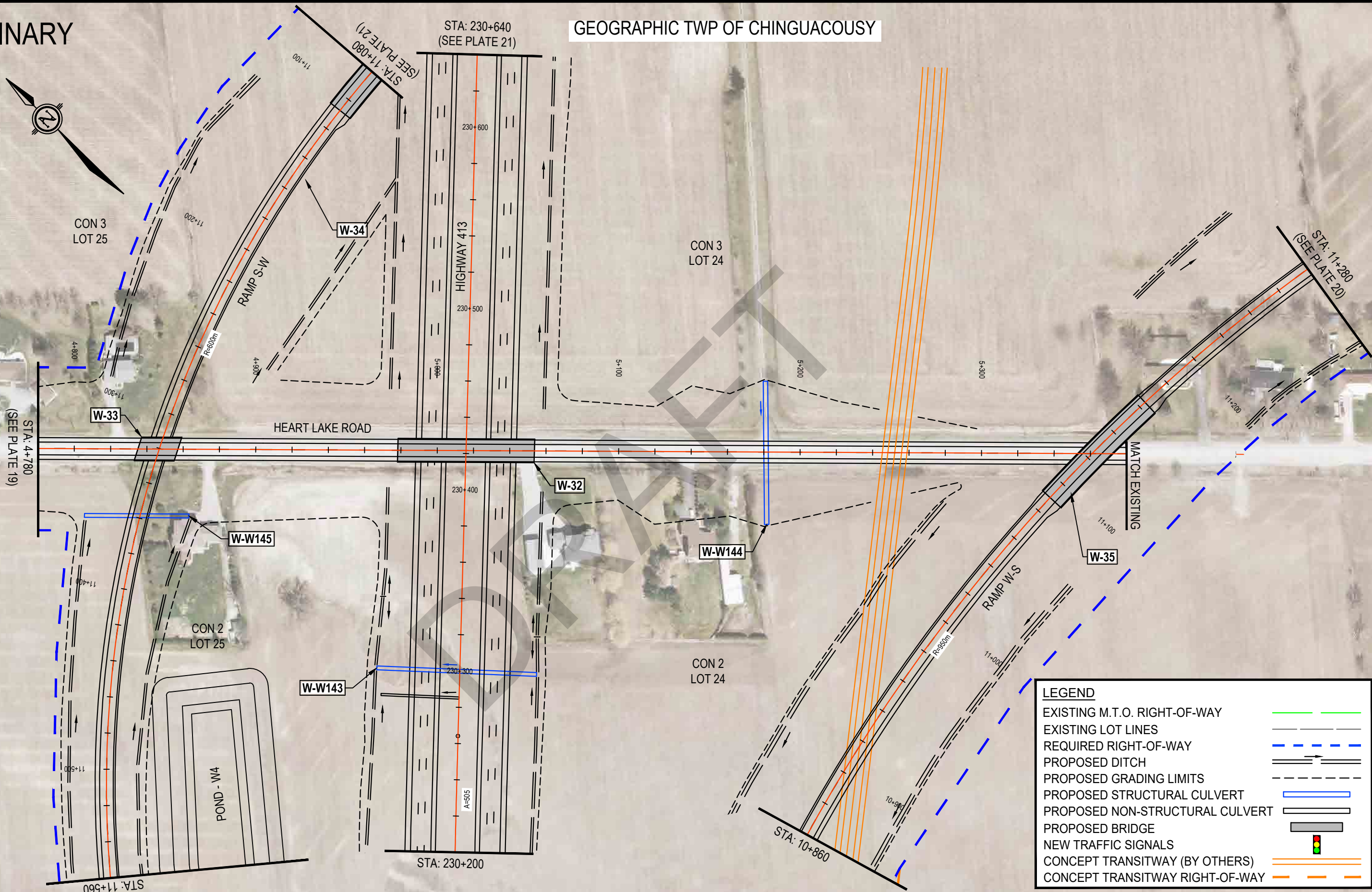


LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

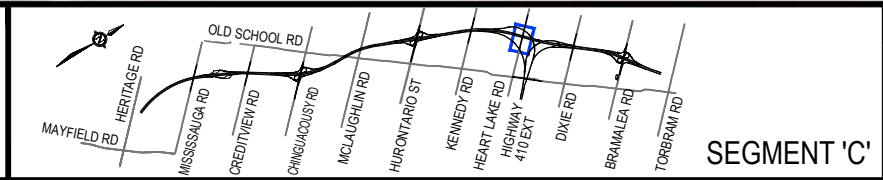
GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 230+200 TO STATION 230+640

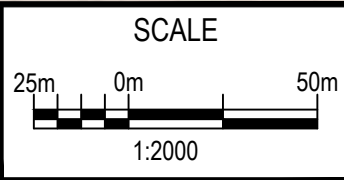
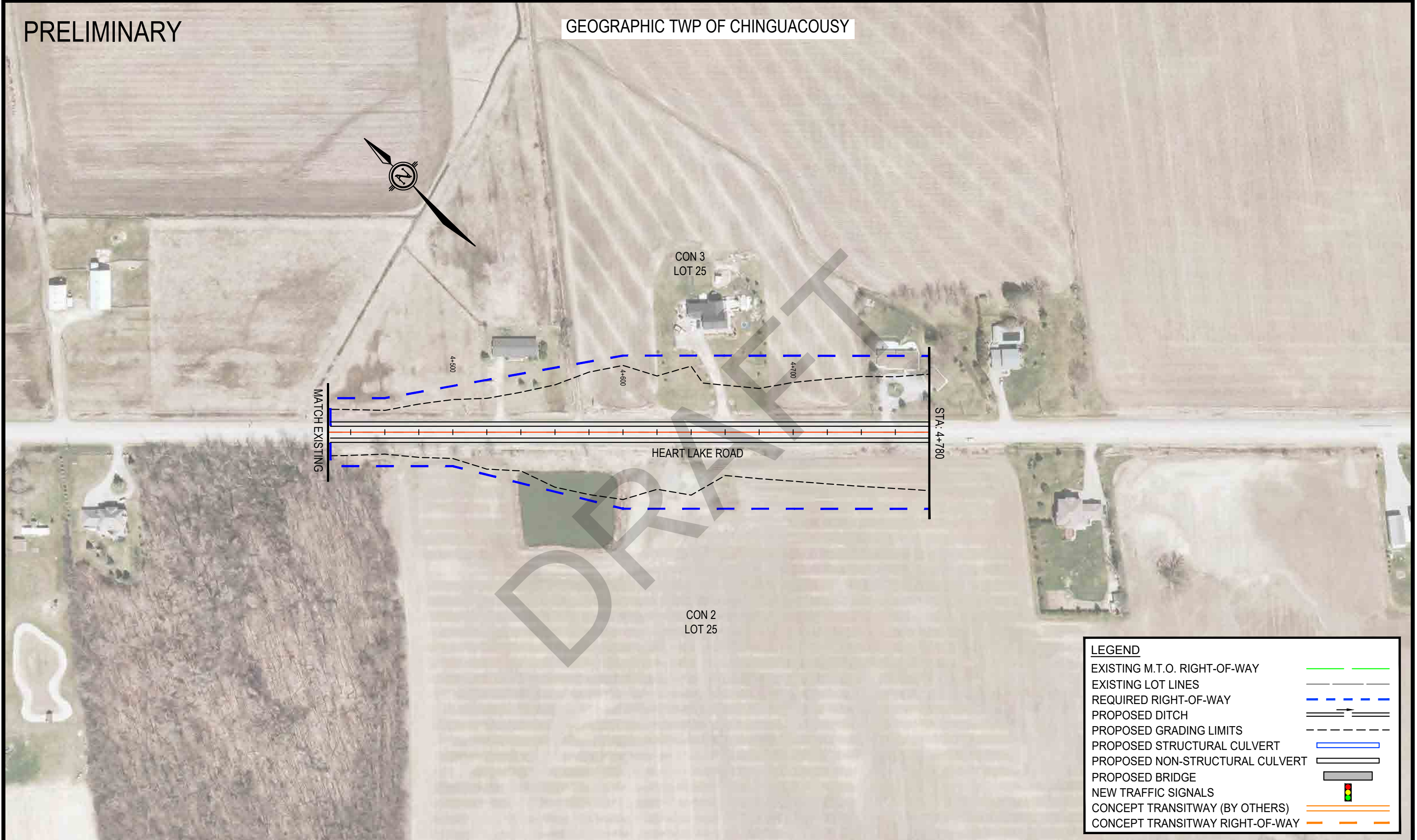


PLATE
C18

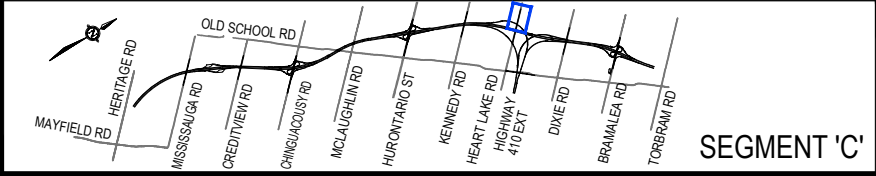
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HEART LAKE ROAD
STATION 4+420 TO STATION 4+780

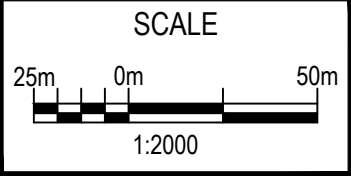
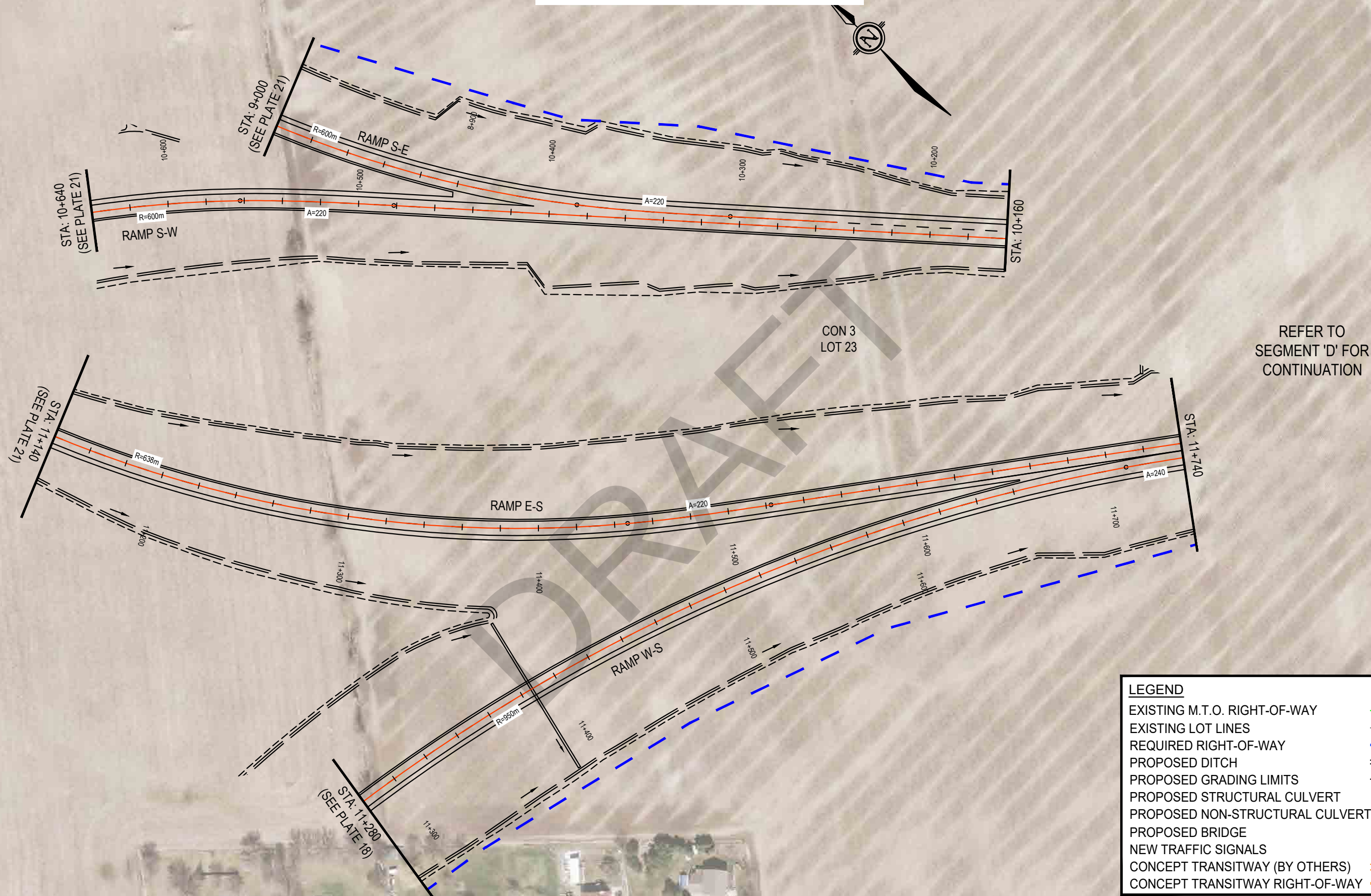


PLATE
C19

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



CON 3
LOT 23

REFER TO
SEGMENT 'D' FOR
CONTINUATION

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'C'

PRELIMINARY DESIGN PLAN
HWY 410 S TO HWY 413 W RAMP
STATION 10+160 TO STATION 10+640

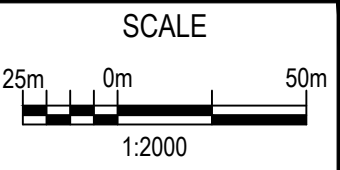


PLATE
C20

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

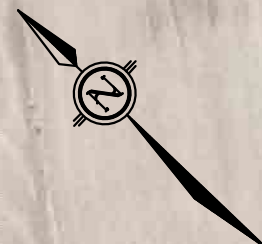
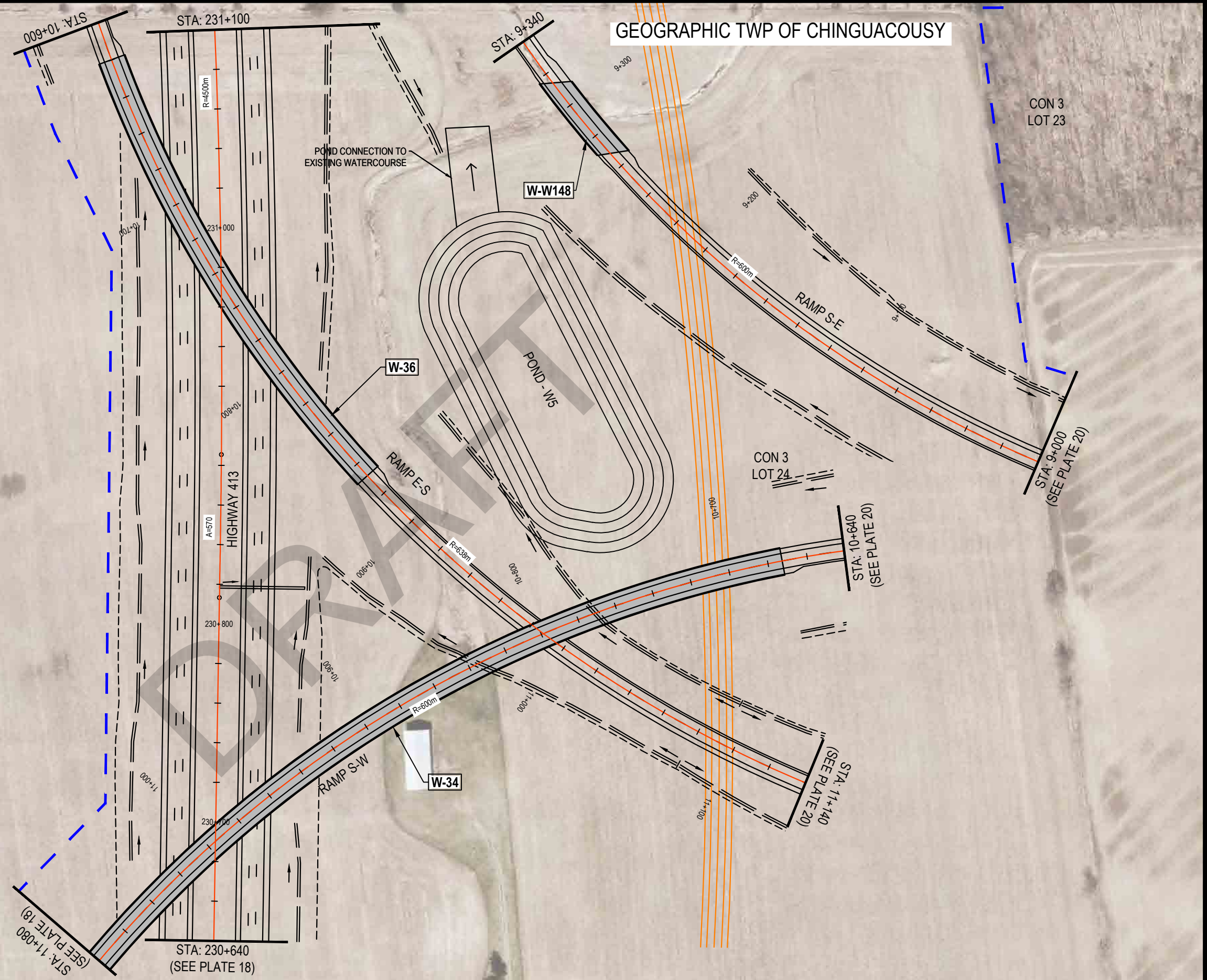
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

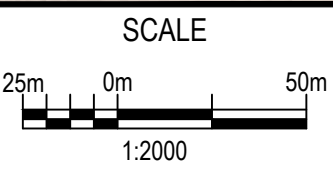
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

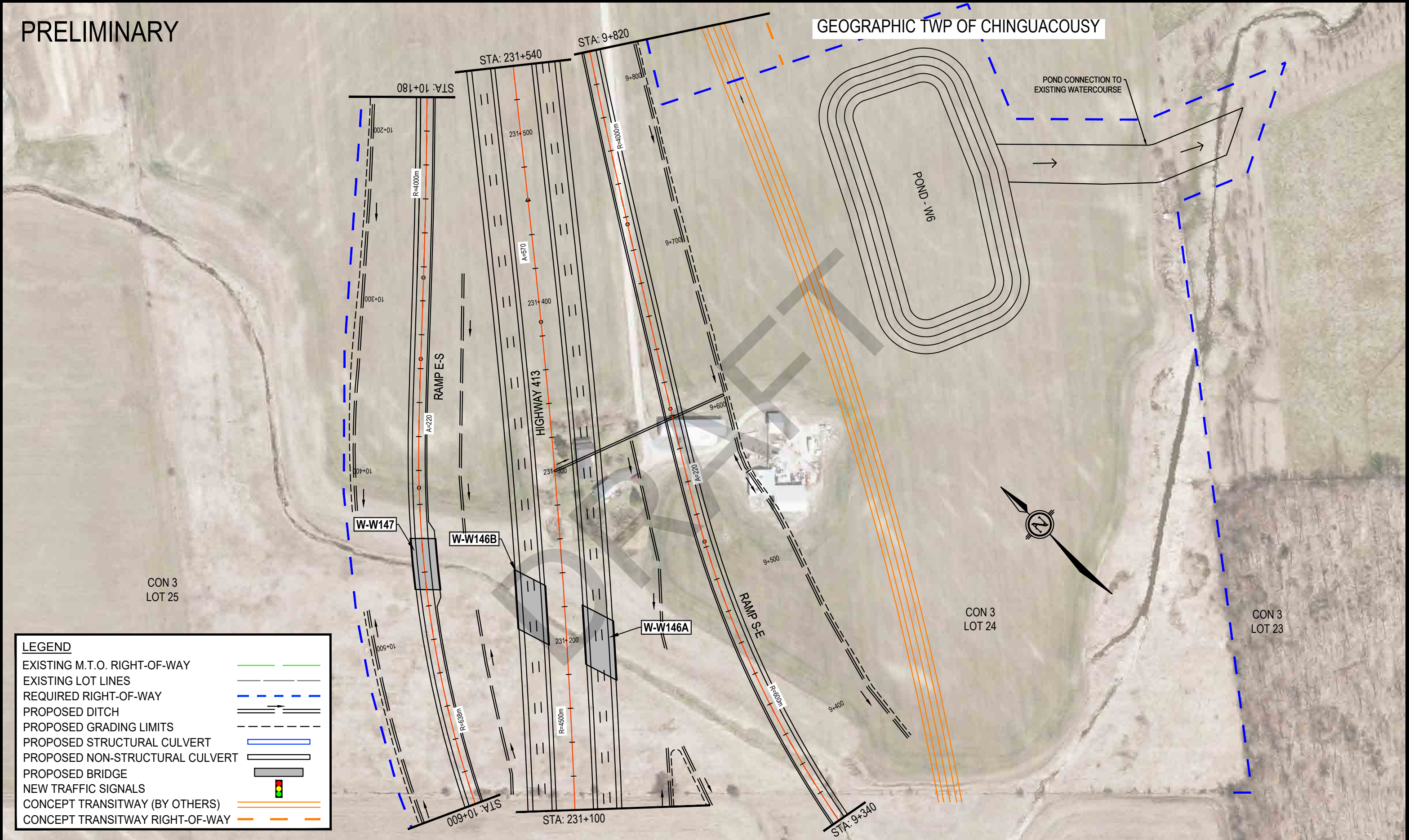


SEGMENT 'C'



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

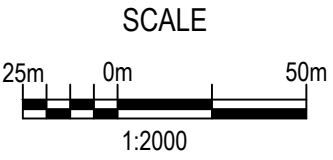


LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

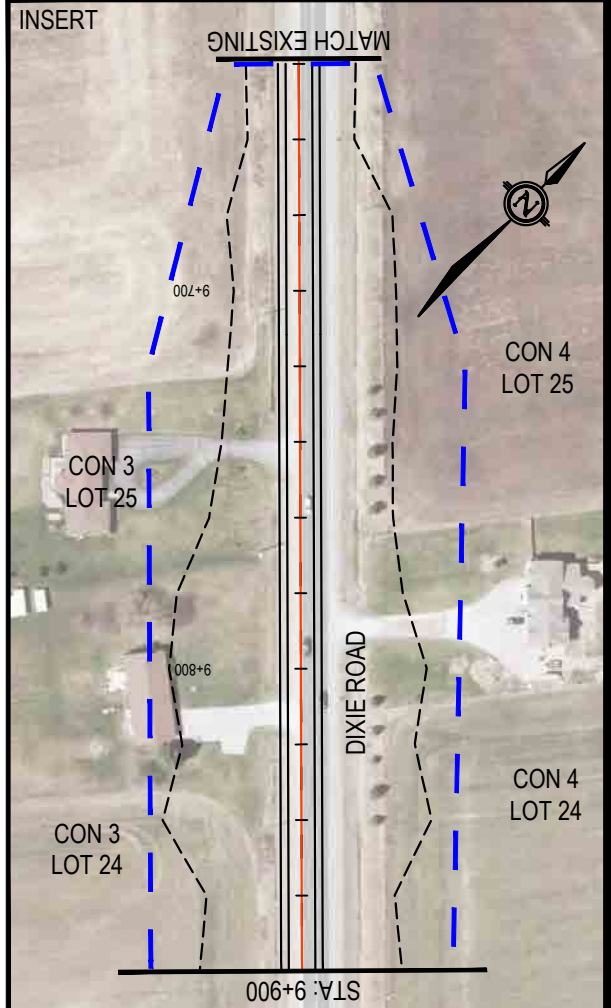
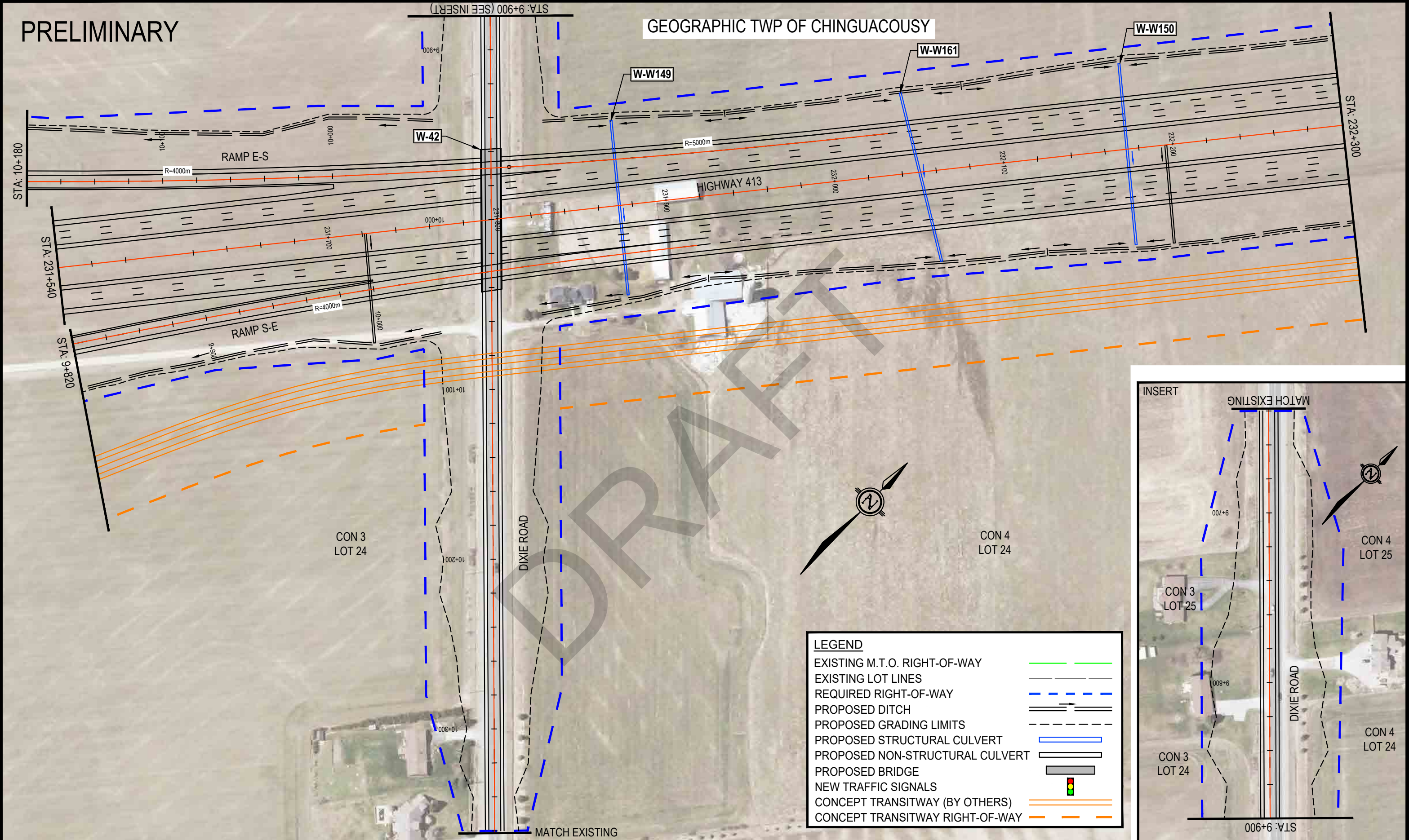


SEGMENT 'C'



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



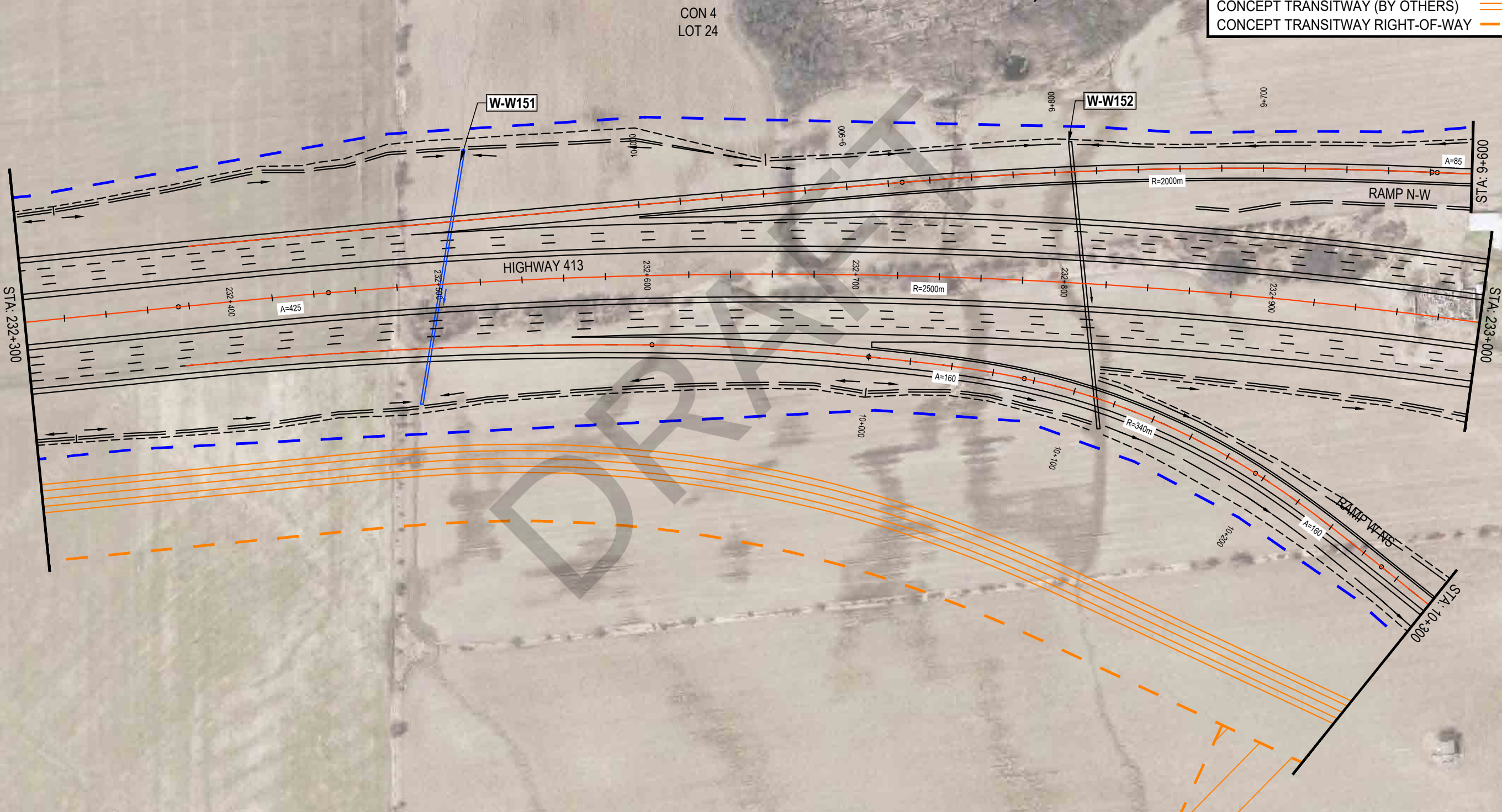
LEGEND

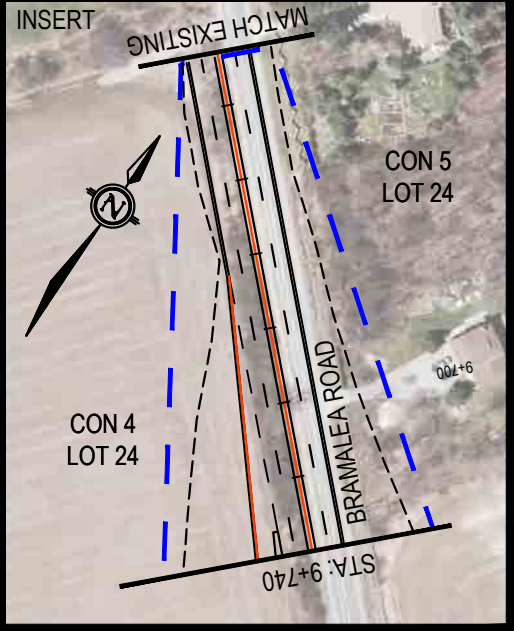
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

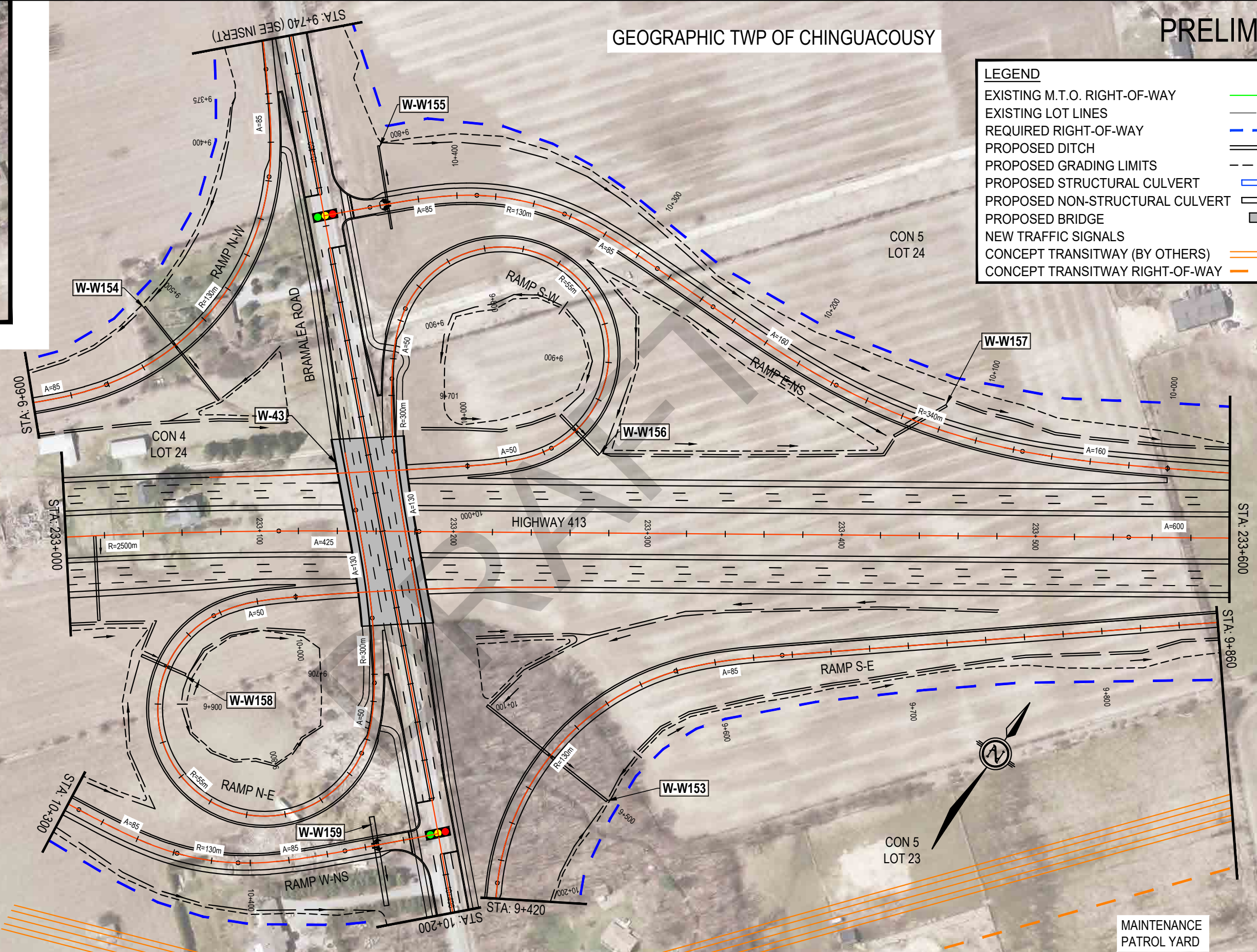




GEOGRAPHIC TWP OF CHINGUACOUSY

PRELIMINARY

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

MAINTENANCE
PATROL YARD

MATCH FUTURE 4
LANE SECTION
(BY OTHERS)

CON 5
LOT 23

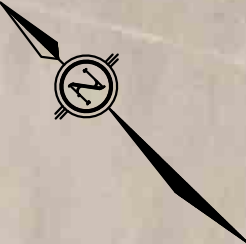
CON 4
LOT 23

STA: 9+420
STA: 10+200

RAMP S-E
A=85

BRAMALEA ROAD

CONCEPTUAL
TRANSIT STATION
AREA



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

CON 5
LOT 24

REFER TO
SEGMENT 'E' FOR
CONTINUATION

CON 5
LOT 23

POND - W7

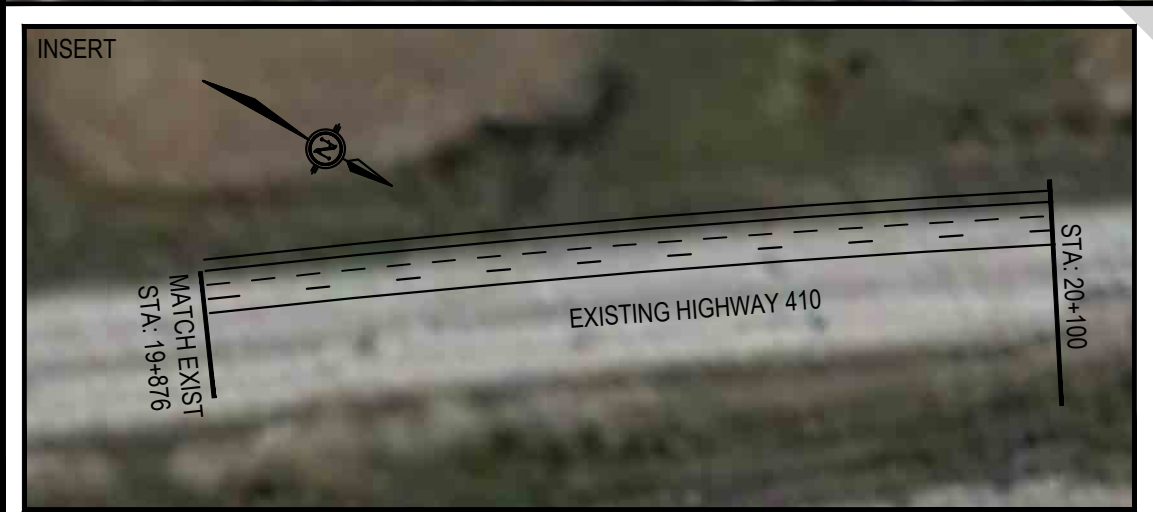
MAINTENANCE
PATROL YARD

POND CONNECTION TO
EXISTING WATERCOURSE

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

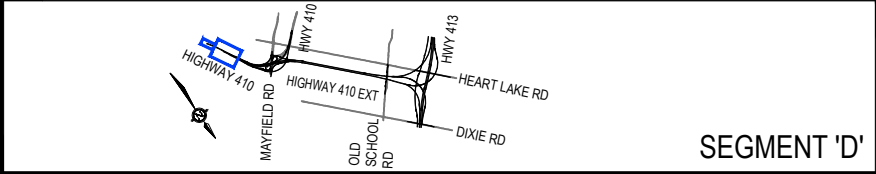
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 410 (EXISTING)
STATION 19+876 TO STATION 20+800

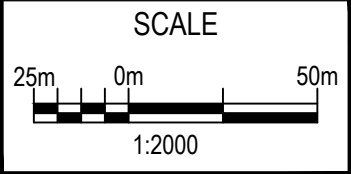
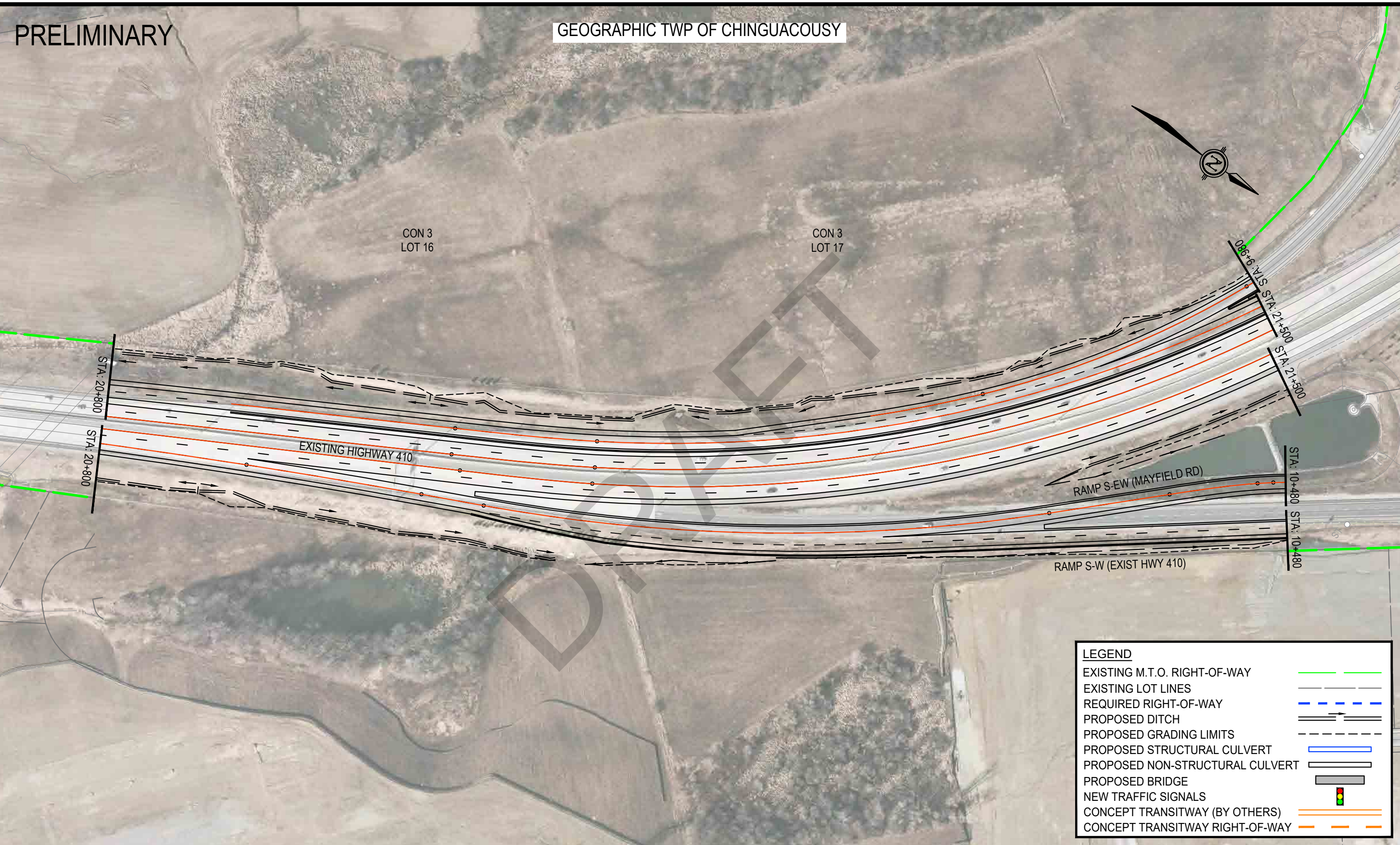


PLATE
D1

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

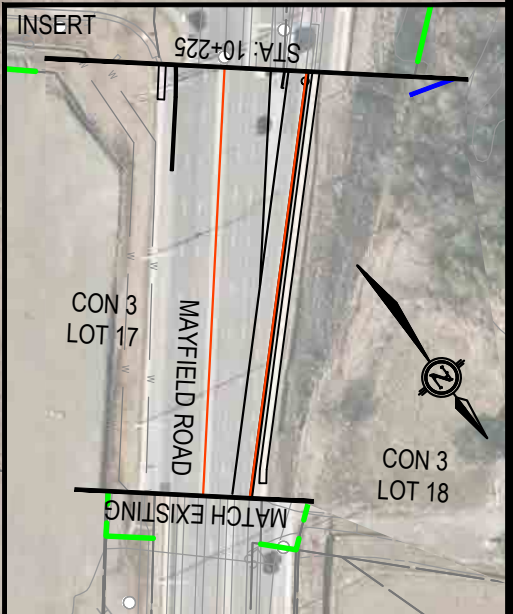
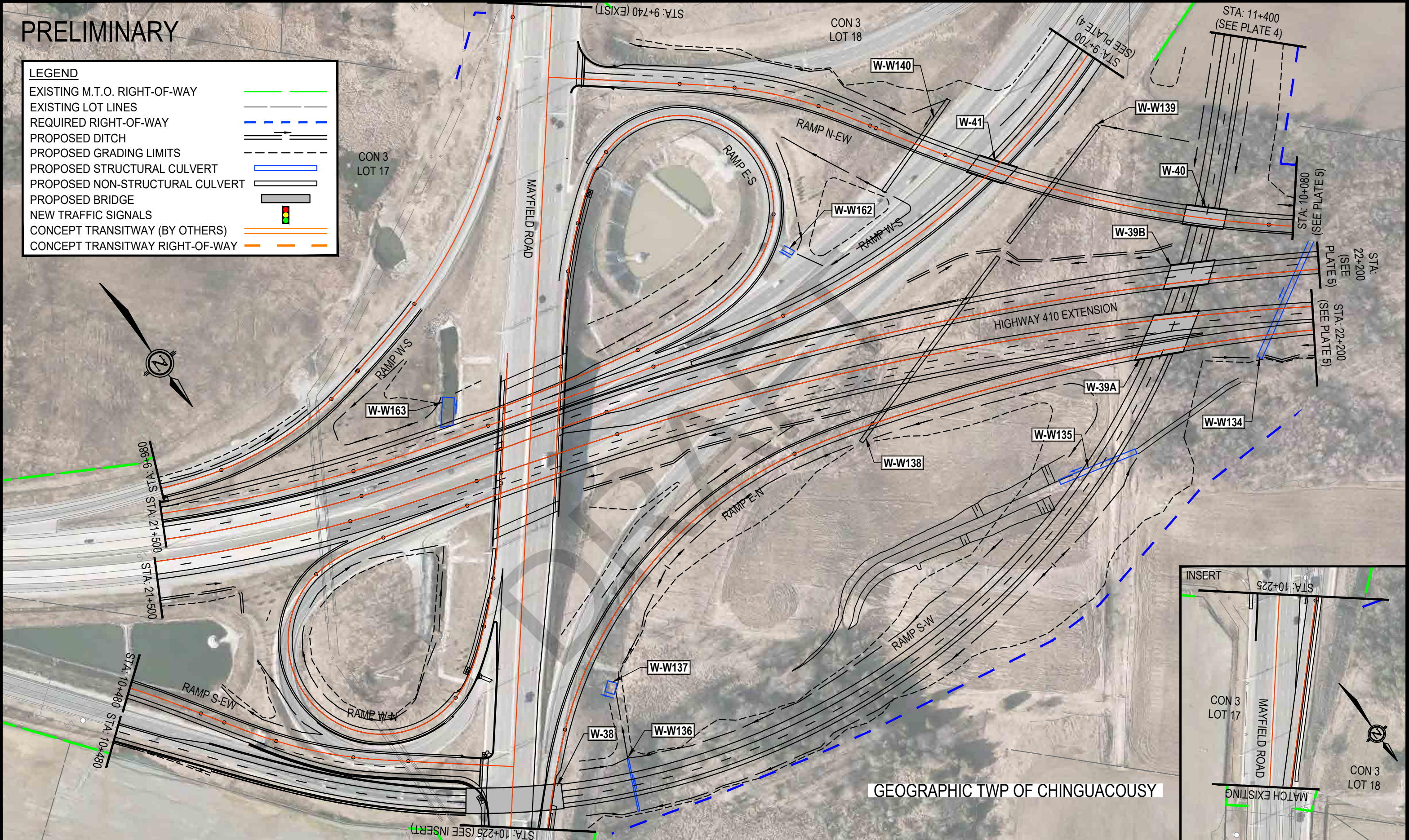
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



GEOGRAPHIC TWP OF CHINGUACOUSY

CON 3
LOT 18

~~RAMP W-S~~

STA: 11+400
(SEE PLATE 3)

STA: 9+700
(SEE PLATE 3)

HEART LAKE ROAD

CONCEPT TRANSITWAY RIGHT-OF-WAY

PLATE D4

SEGMENT 'D'

PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

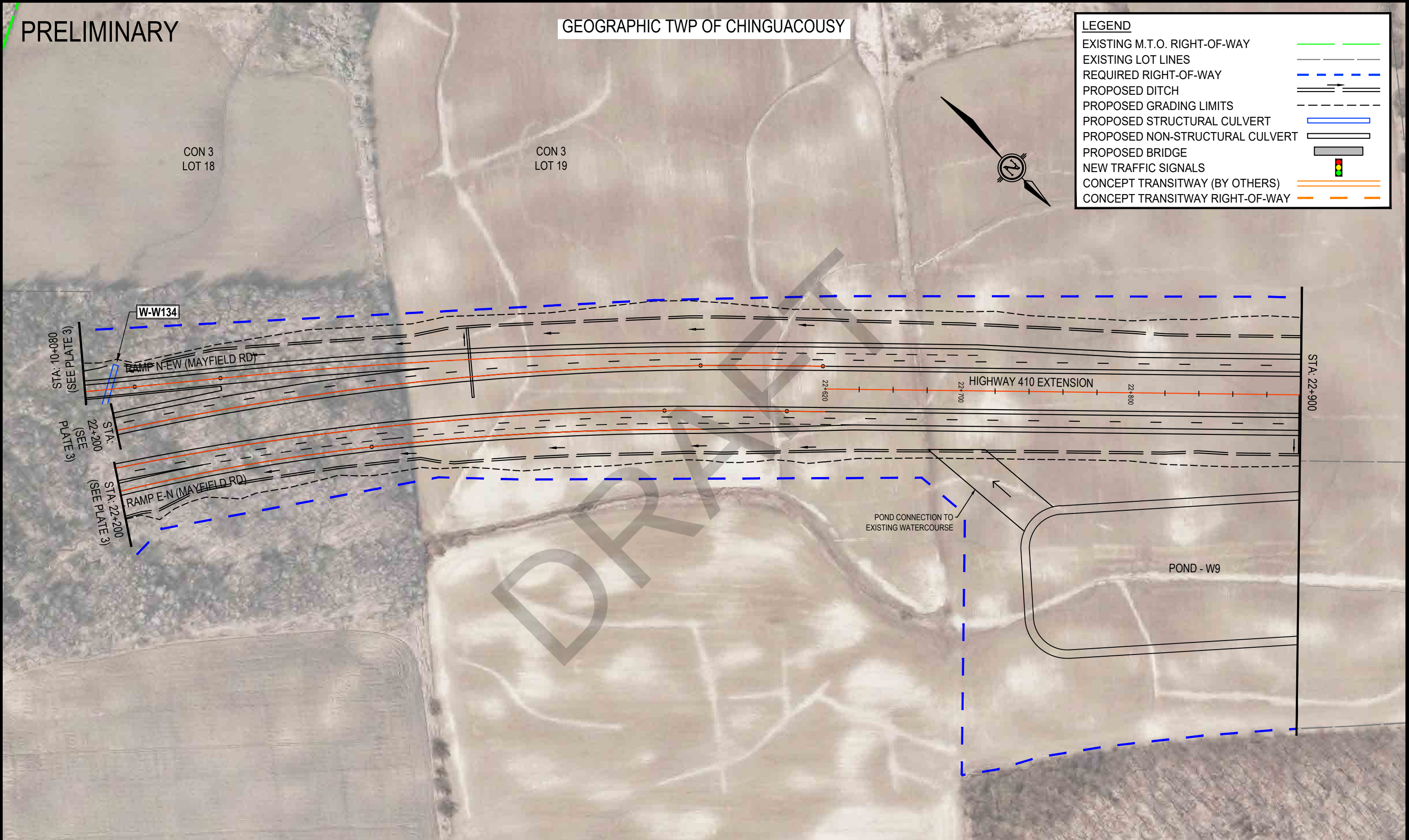
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



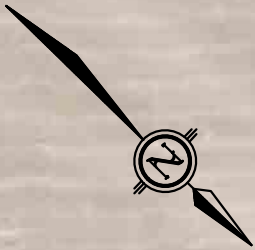
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

CON 3
LOT 19

CON 3
LOT 20

CON 3
LOT 21

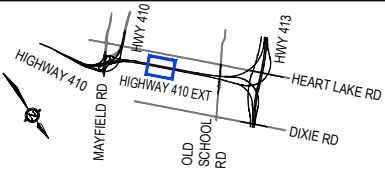


LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



Ministry of
Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'D'

PRELIMINARY DESIGN PLAN
HIGHWAY 410 (EXTENSION)

STATION 22+900 TO STATION 23+600

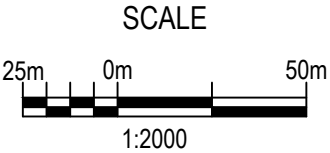


PLATE
D6

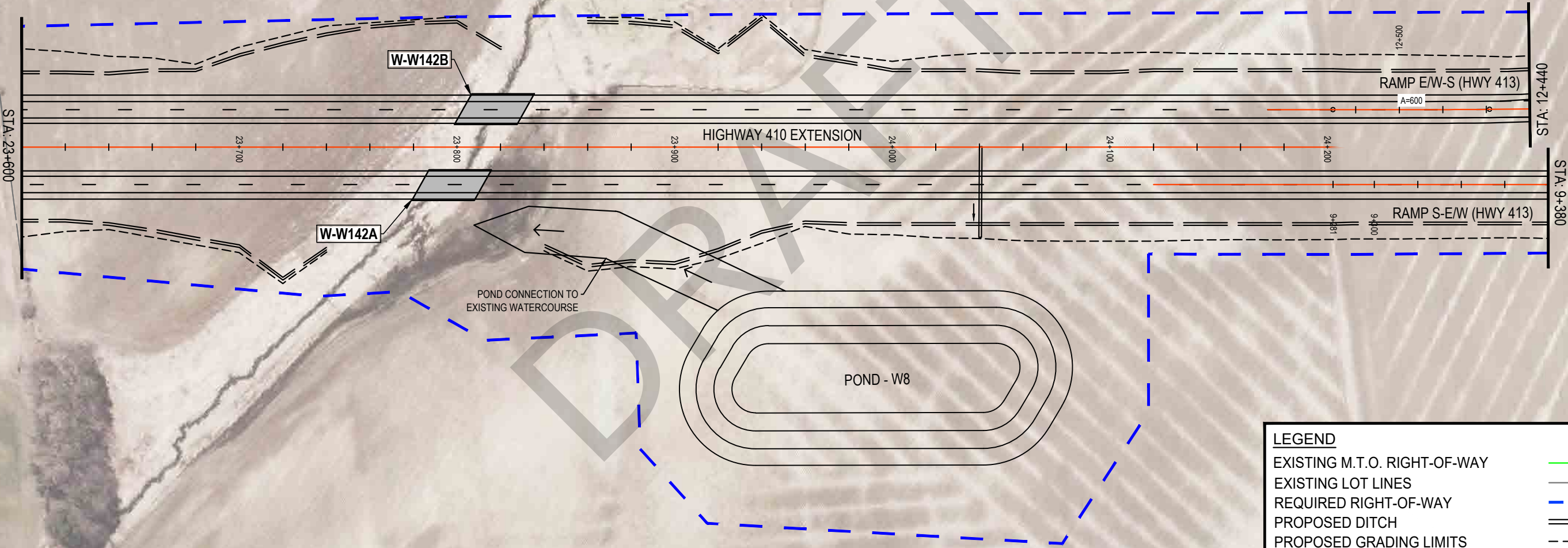
PRELIMINARY

GEOGRAPHIC TWP OF CHINGUACOUSY

CON 3
LOT 21

CON 3
LOT 22

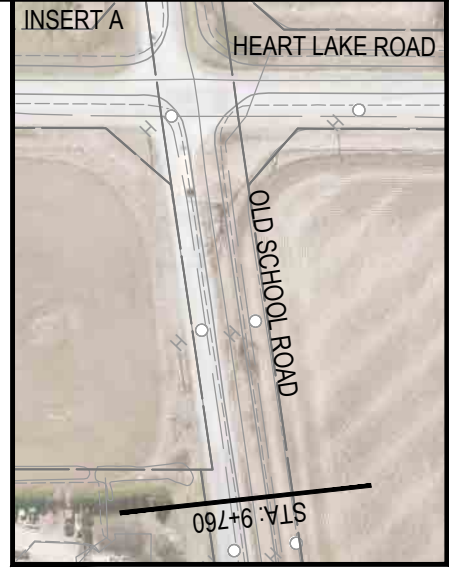
CON 3
LOT 20



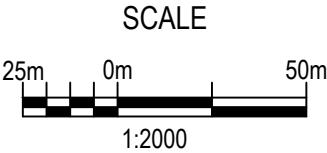
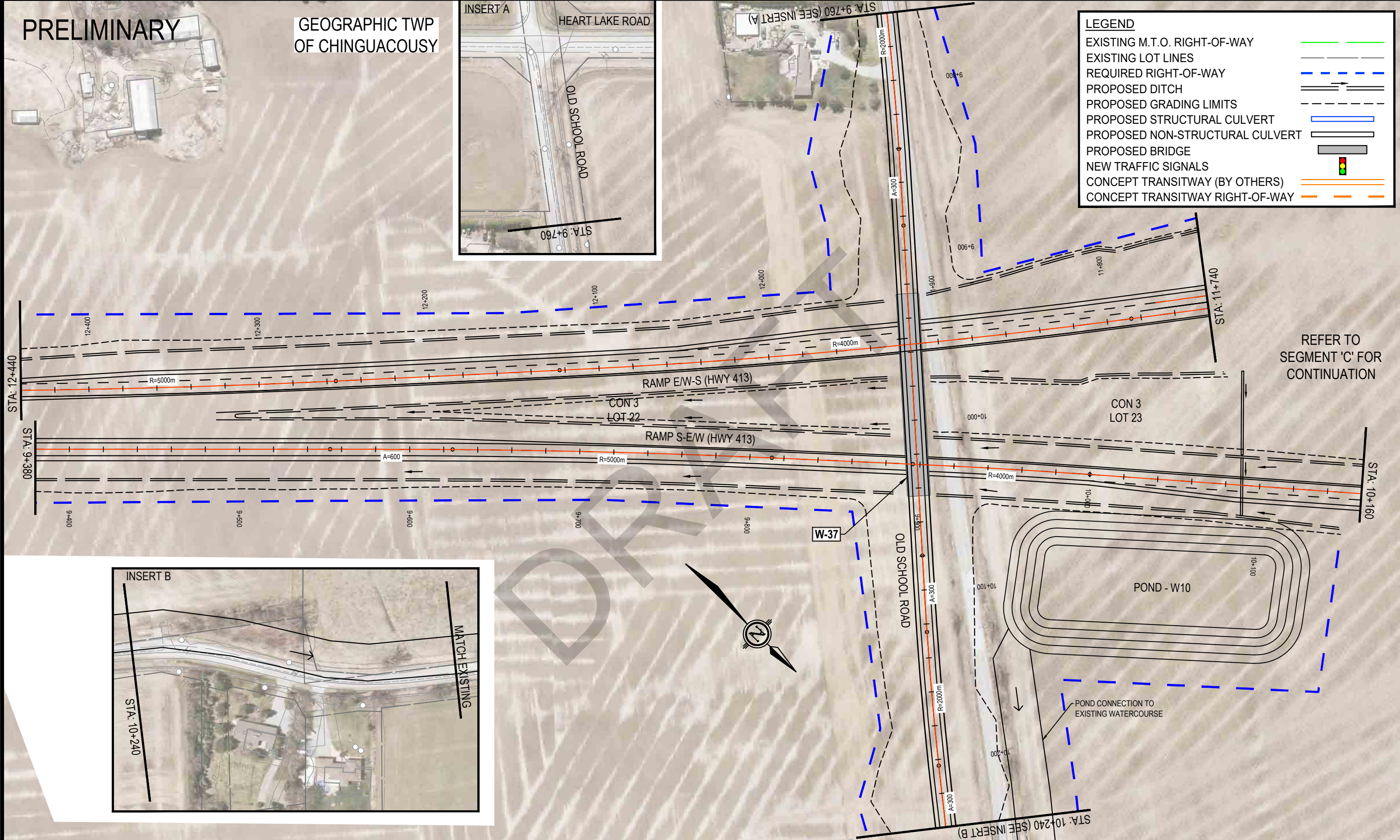
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

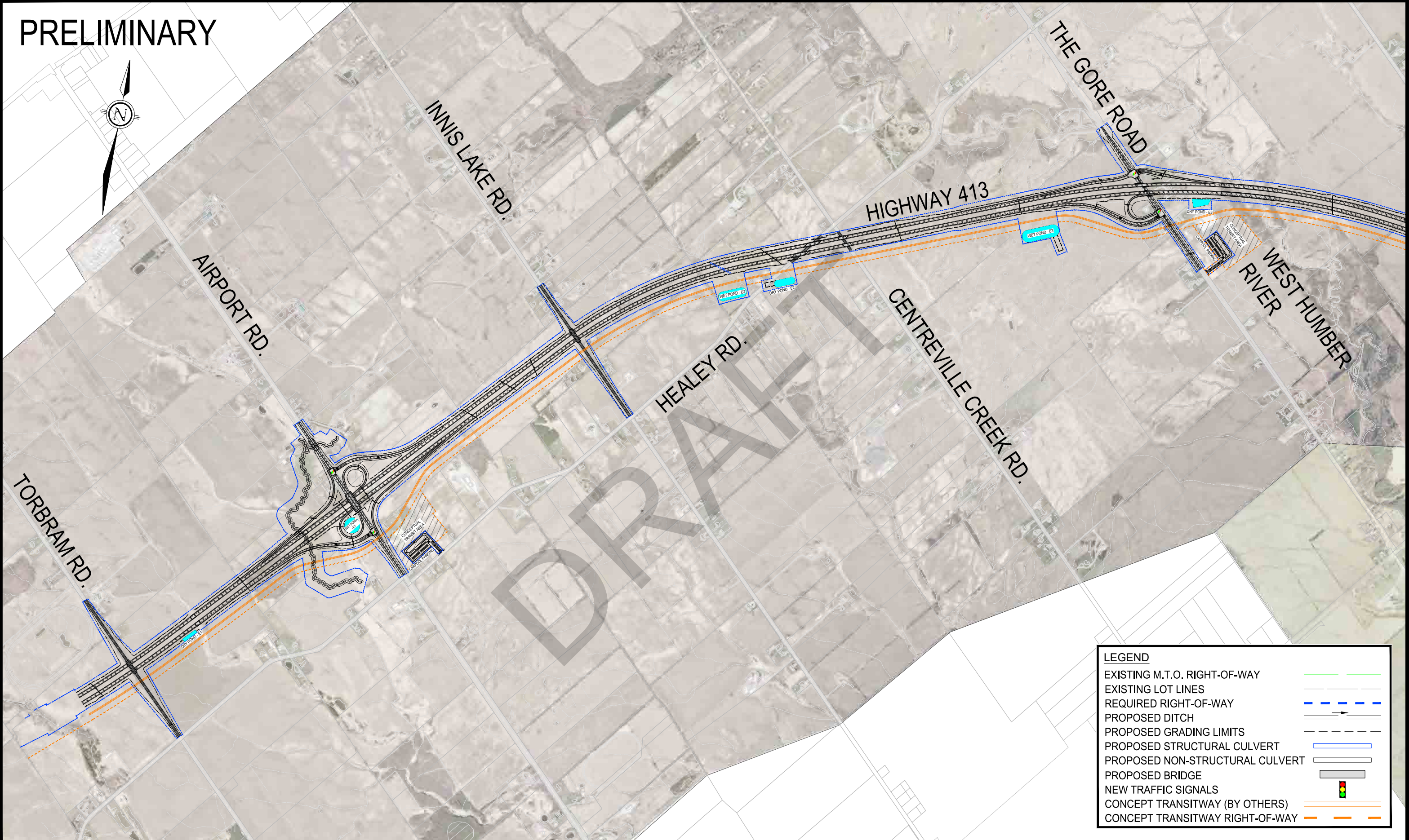
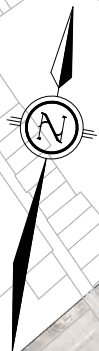
GEOGRAPHIC TWP
OF CHINGUACOUSY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY



LEGEND

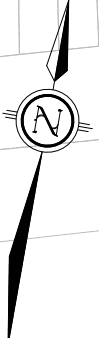
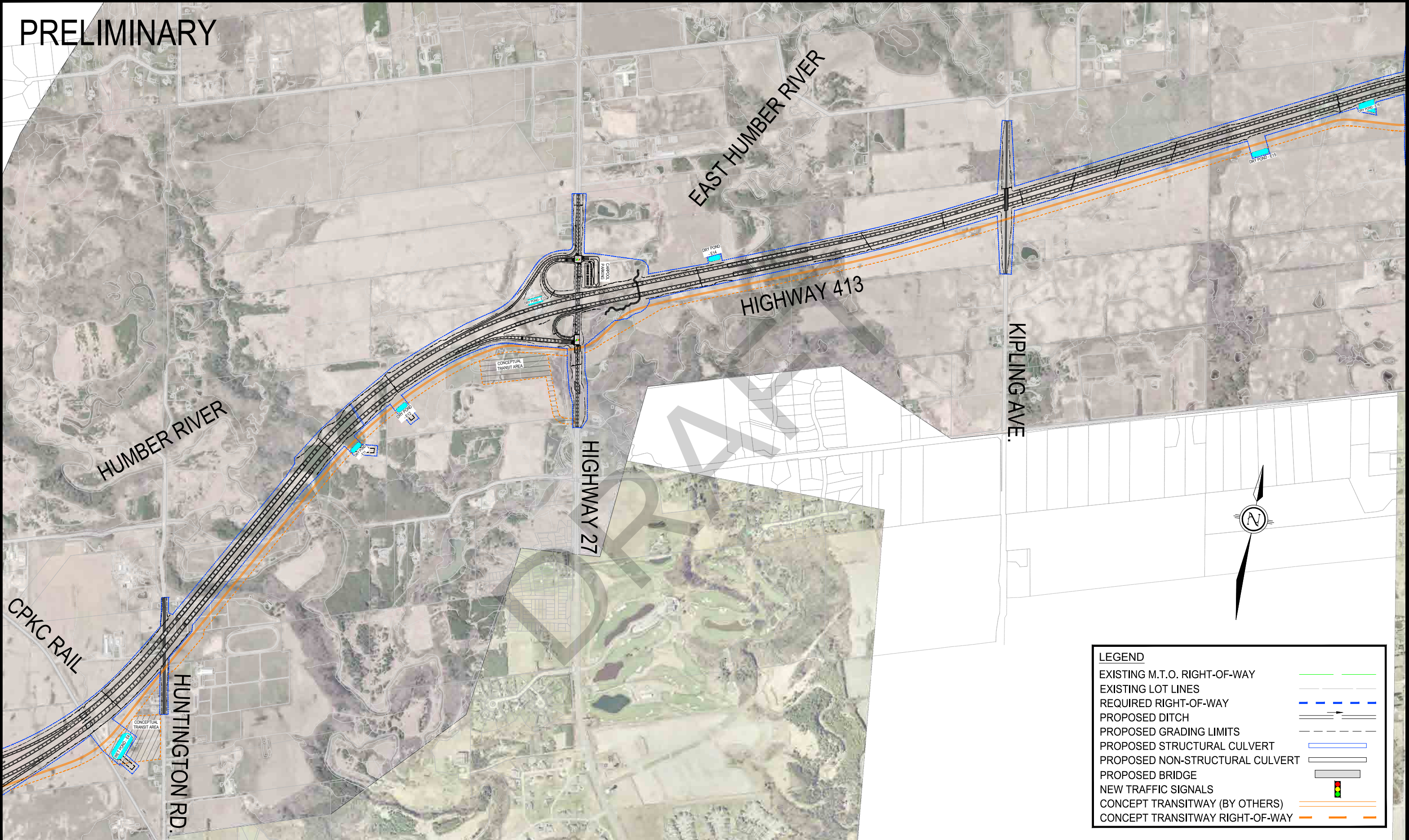
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY



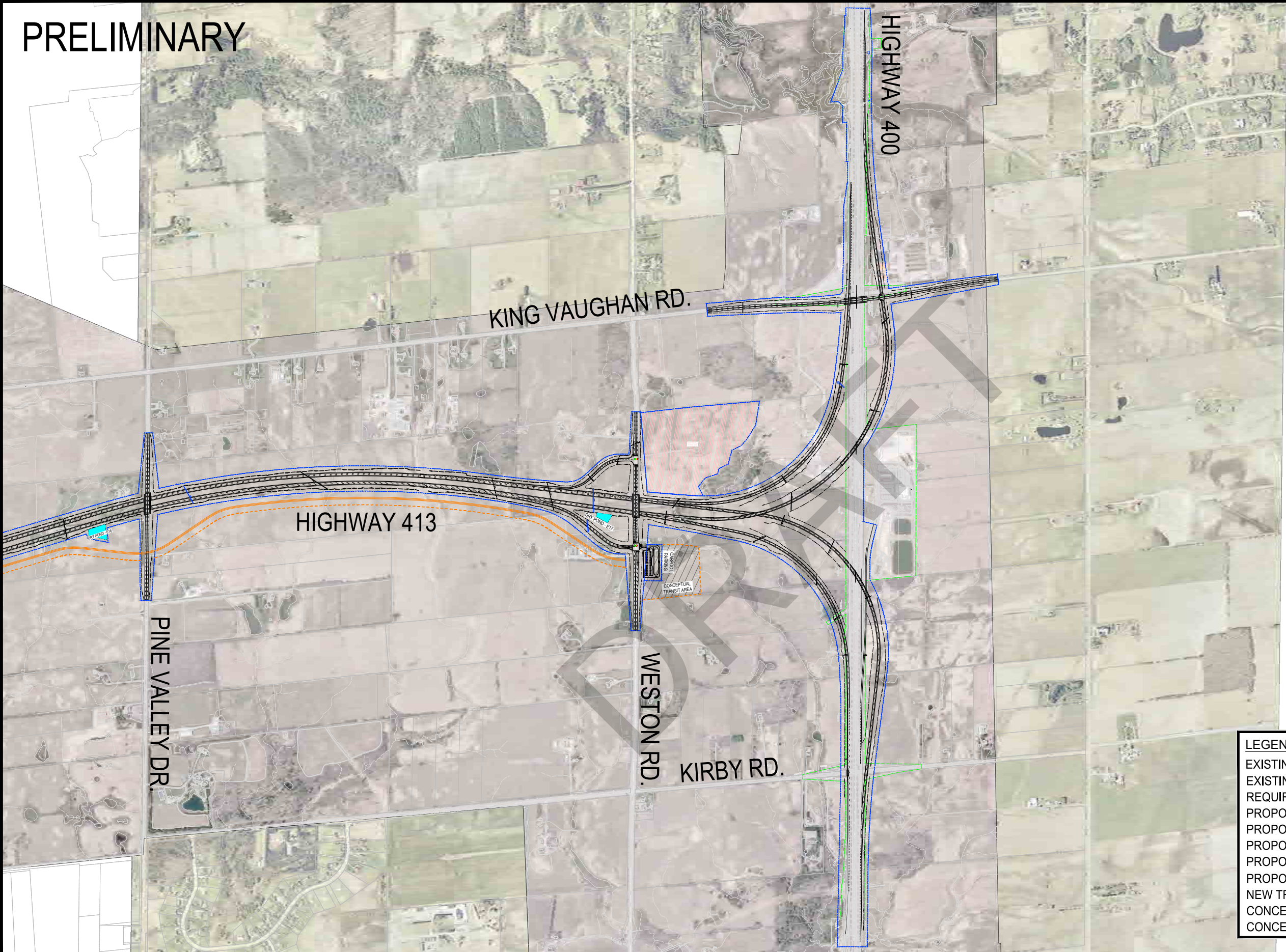
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY



LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

CON 5 EAST OF CENTRE ROAD
LOT 24

CON 6 EAST OF CENTRE ROAD
LOT 24

CON 5 EAST OF CENTRE ROAD
LOT 23

CON 6 EAST OF CENTRE ROAD
LOT 23

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

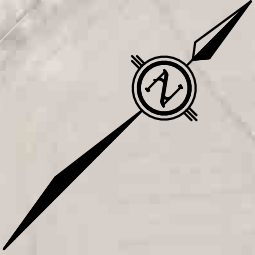
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

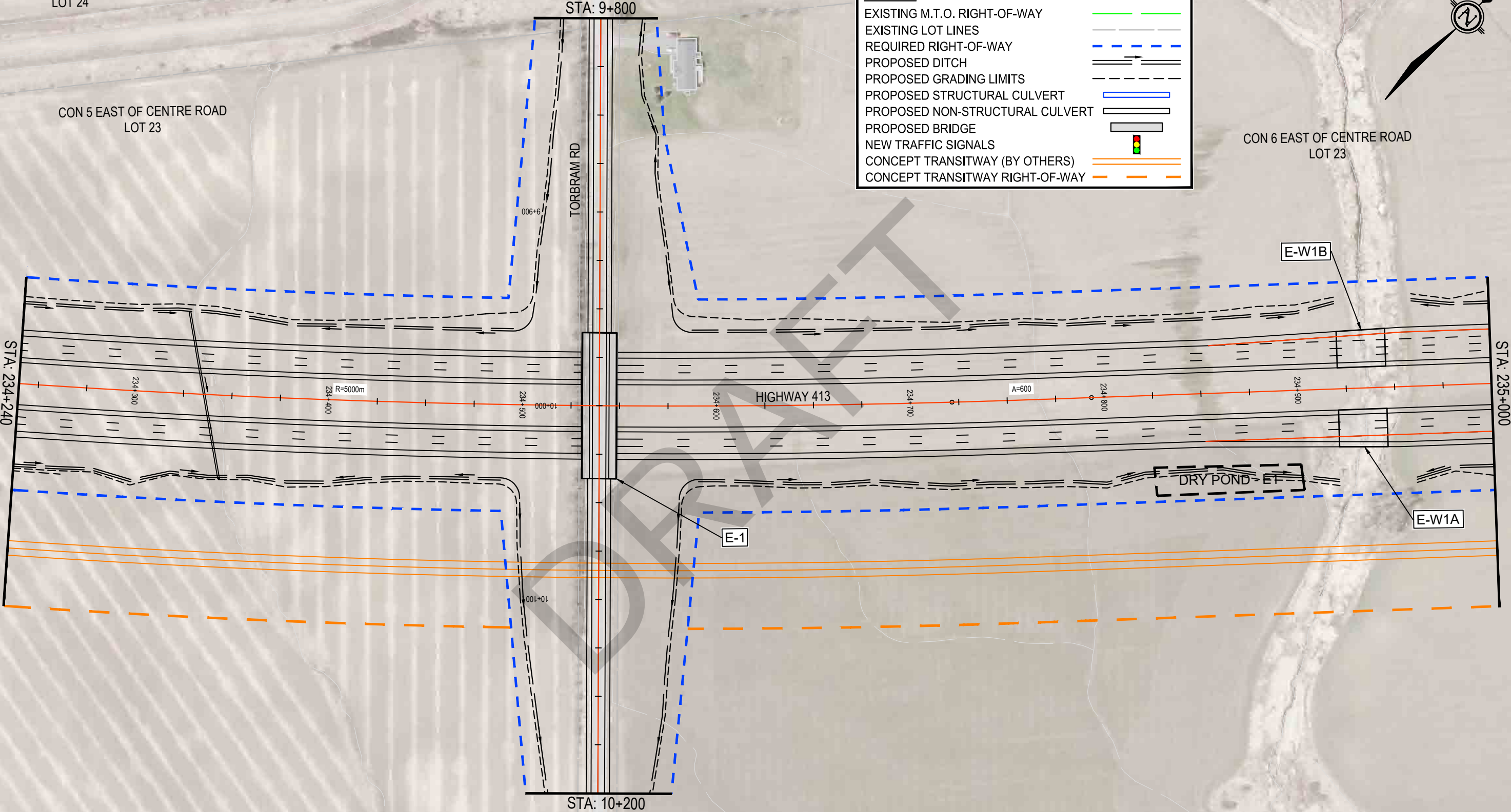
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

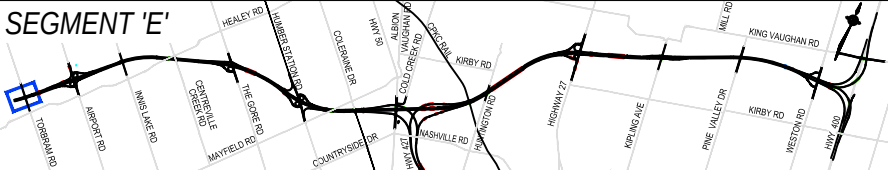
CONCEPT TRANSITWAY RIGHT-OF-WAY



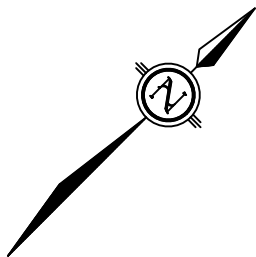
REFER TO SEGMENT 'C' FOR CONTINUATION



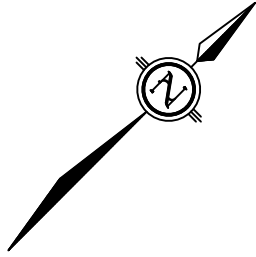
GEOGRAPHIC TWP OF CHINGUACOUSY



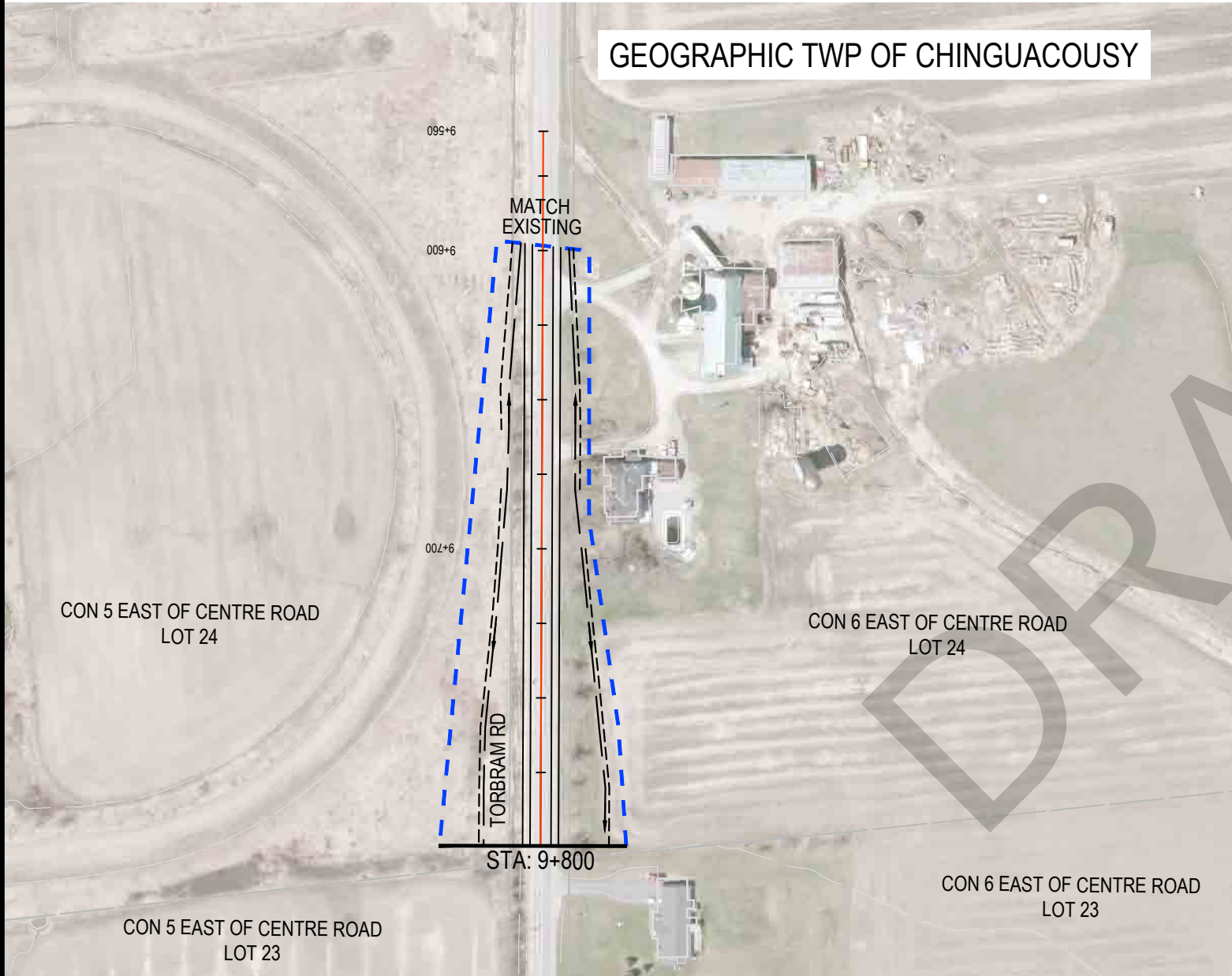
PRELIMINARY



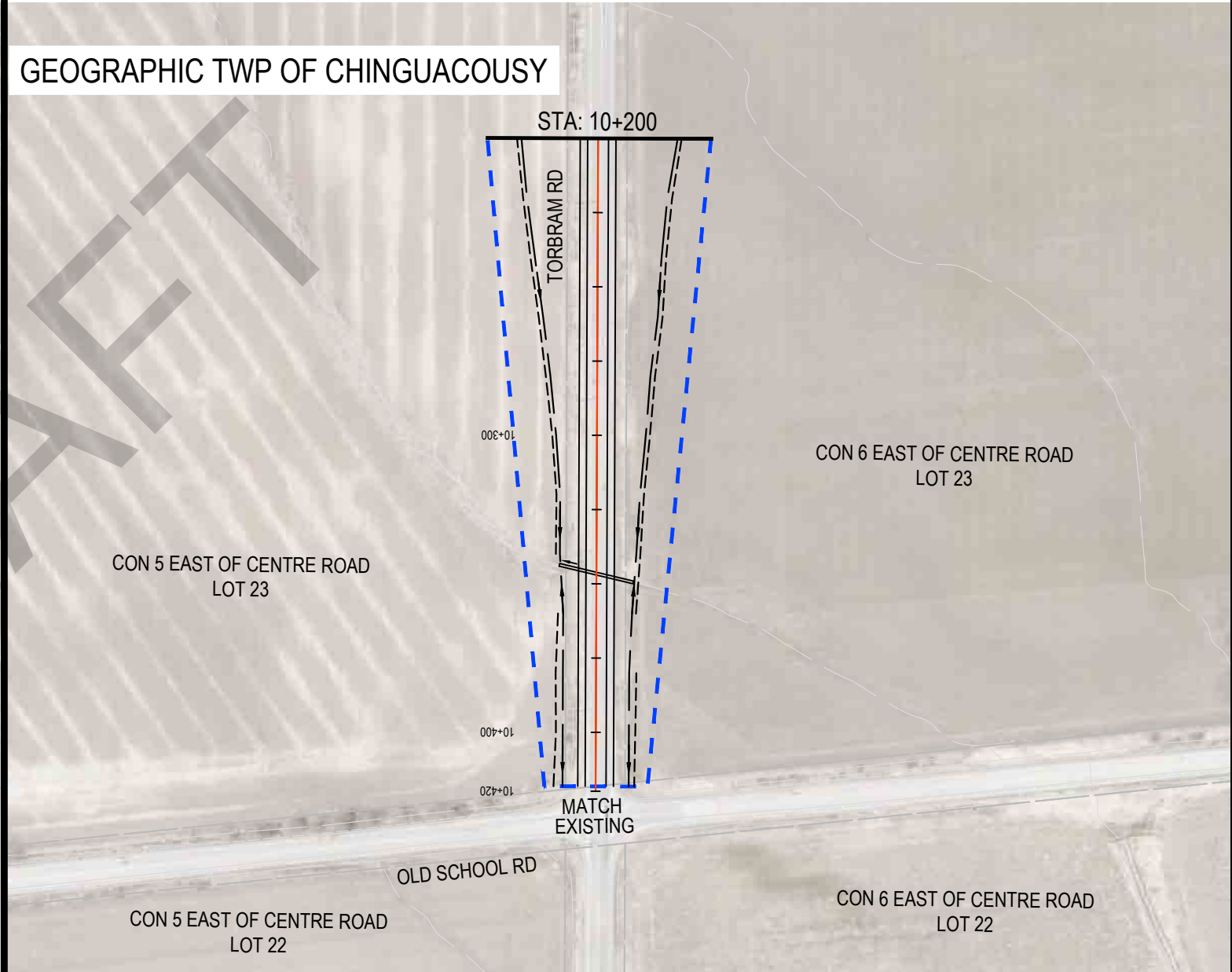
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



GEOGRAPHIC TWP OF CHINGUACOUSY



GEOGRAPHIC TWP OF CHINGUACOUSY



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
TORBRAM ROAD
STATION 9+560 TO STATION 9+800
STATION 10+200 TO STATION 10+420

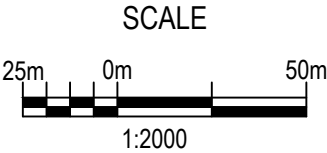
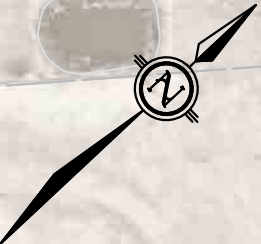


PLATE
E1A

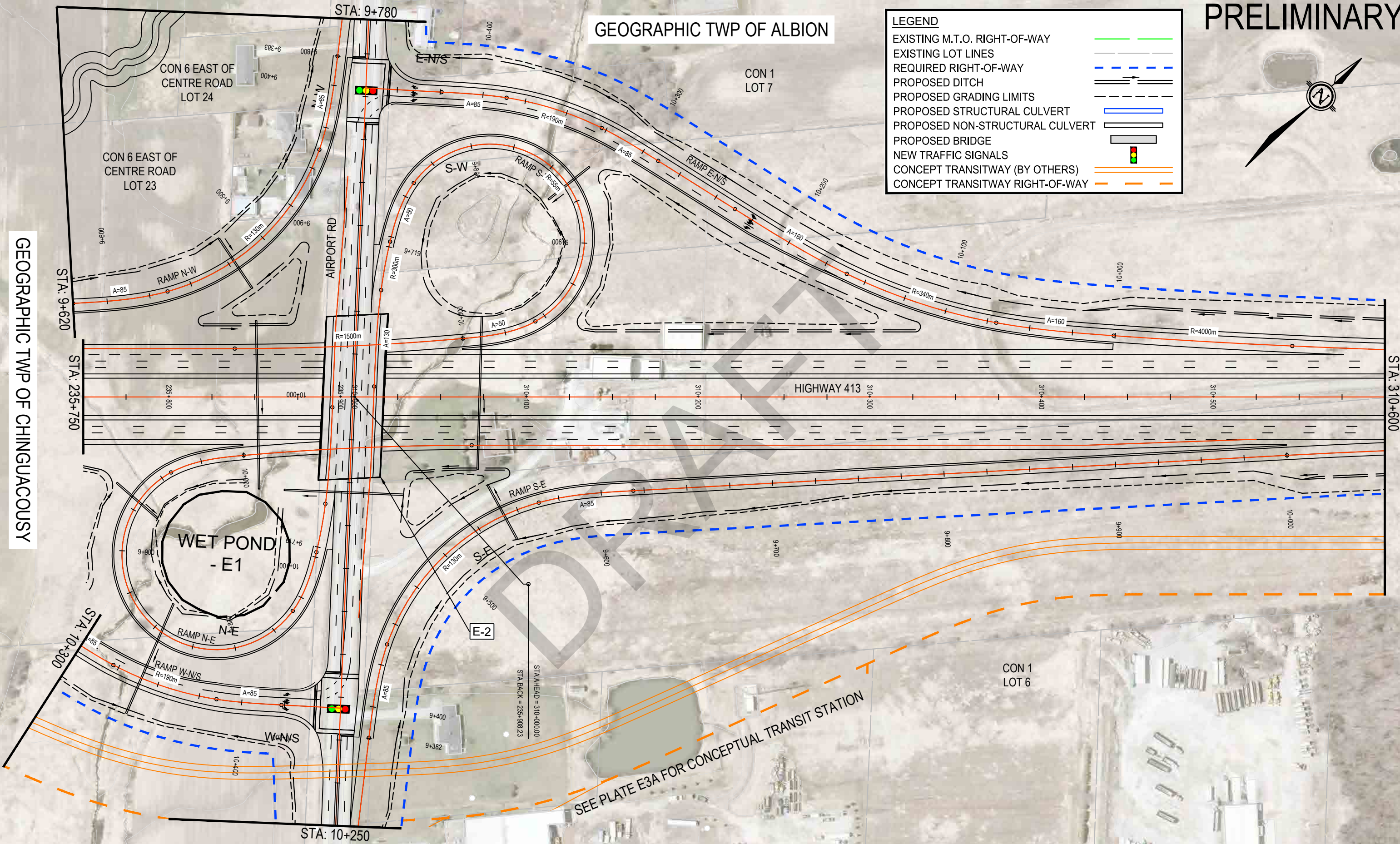
GEOGRAPHIC TWP OF ALBION

LEGEND

- EXISTING M.T.O. RIGHT-OF-WAY
- EXISTING LOT LINES
- REQUIRED RIGHT-OF-WAY
- PROPOSED DITCH
- PROPOSED GRADING LIMITS
- PROPOSED STRUCTURAL CULVERT
- PROPOSED NON-STRUCTURAL CULVERT
- PROPOSED BRIDGE
- NEW TRAFFIC SIGNALS
- CONCEPT TRANSITWAY (BY OTHERS)
- CONCEPT TRANSITWAY RIGHT-OF-WAY



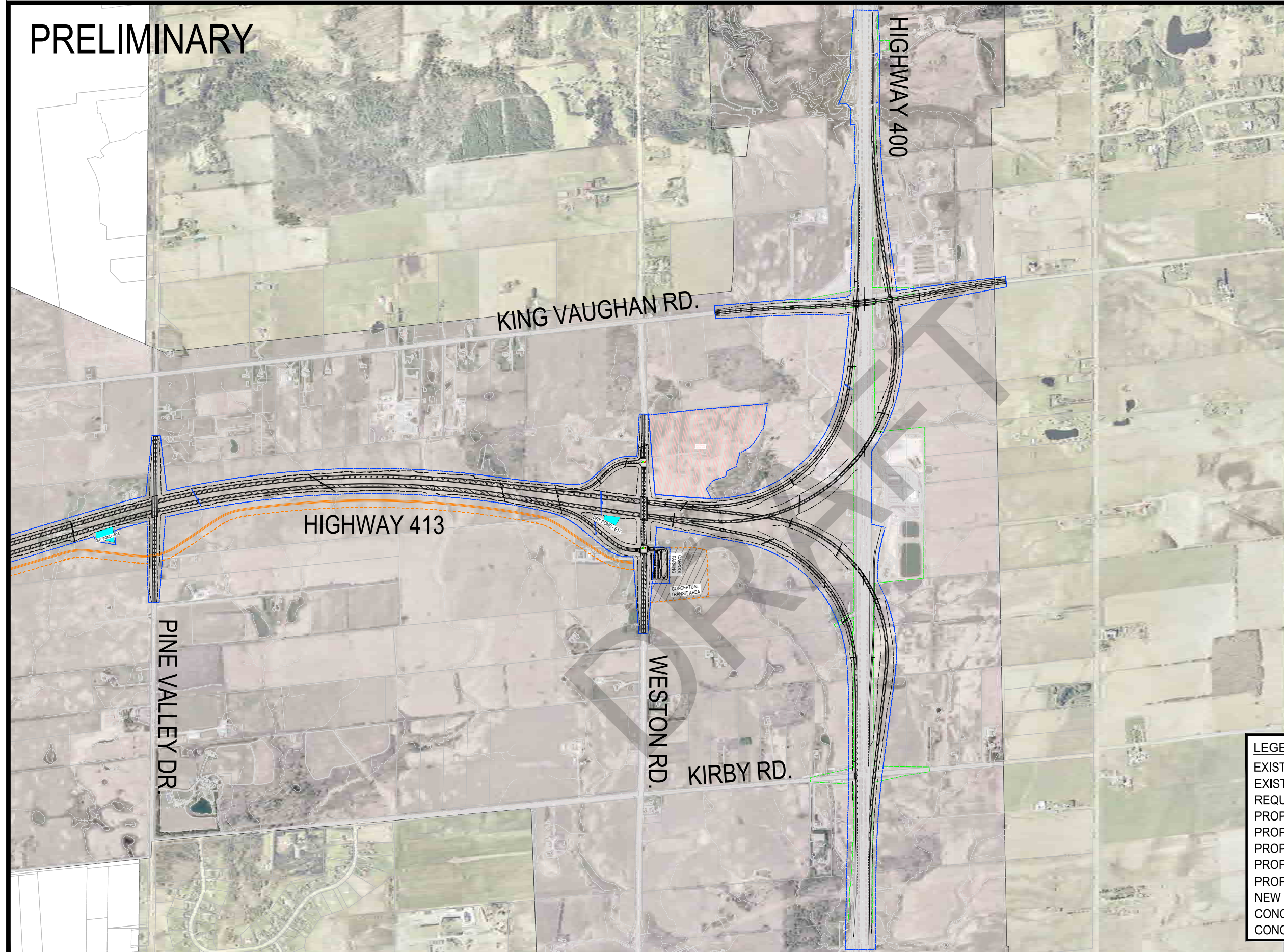
GEOGRAPHIC TWP OF CHINGUACOUSY



SEE PLATE E3A FOR CONCEPTUAL TRANSIT STATION



PRELIMINARY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

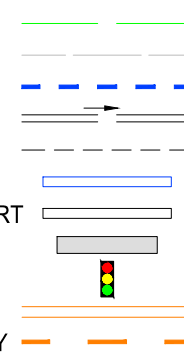
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

**AECOM**

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HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

Preliminary Design
Segment 'E' & 'G' - Pine Valley
Drive to Highway 400

N.T.S

PLATE

RF-E04

CON 6 EAST OF CENTRE ROAD
LOT 24

CON 1
LOT 7

MATCH FUTURE 4 LANE
SECTION (BY OTHERS)

AIRPORT RD

E-W3

STA: 9+780

STA: 10+250

AIRPORT RD

CON 6 EAST OF
CENTRE ROAD
LOT 23

CON 6 EAST OF
CENTRE ROAD
LOT 22

GEOGRAPHIC
TWP OF
ALBION

CONCEPTUAL
TRANSIT STATION
AREA

CON 1
LOT 6

CON 1
LOT 5

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

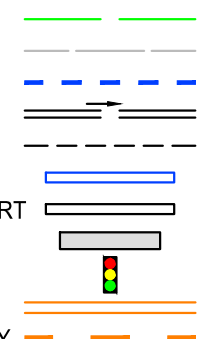
PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STF

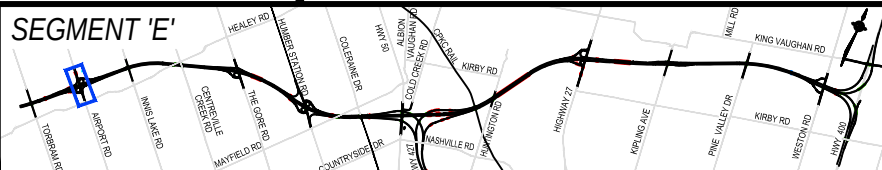
PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS) =
CONCEPT TRANSITWAY RIGHT OF WAY



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN

AIRPORT ROAD

STATION 9+400 TO STATION 9+780

STATION 10+250 TO STATION 10+600

SCALE

25m 0m 50m

1:2000

PLATE
E3A

PRELIMINARY

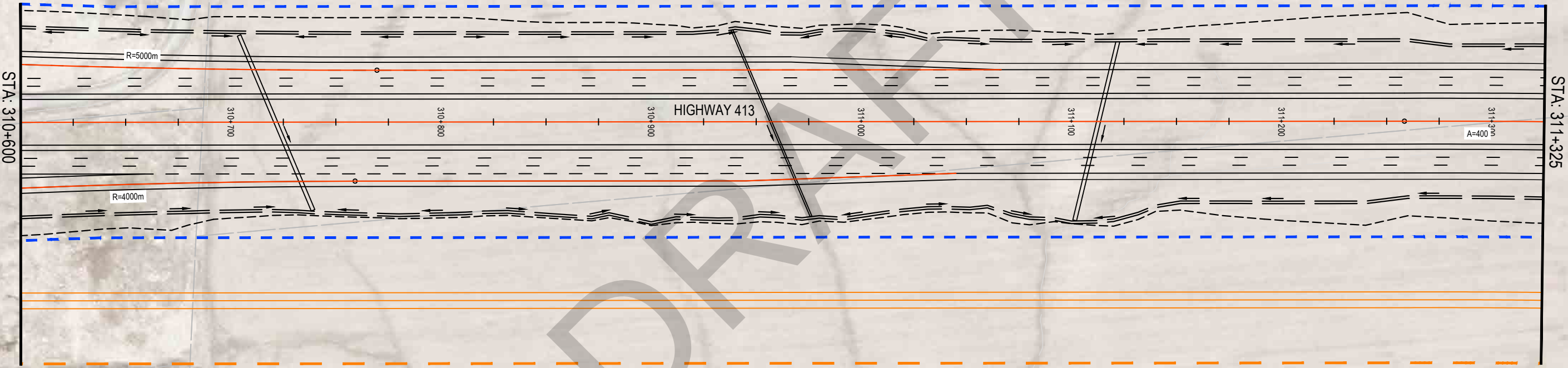
LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

GEOGRAPHIC TWP OF ALBION

CON 1
LOT 7

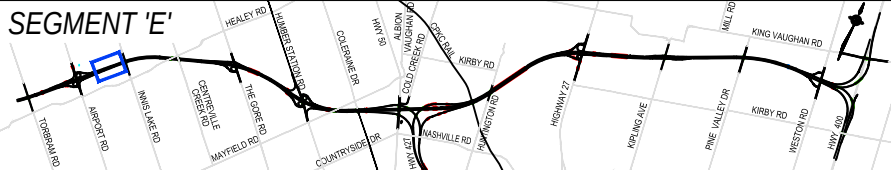
INNIS LAKE RD



CON 1
LOT 6

Ministry of
Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 310+600 TO STATION 311+325

SCALE

1:2000

PLATE
E4

PRELIMINARY

GEOGRAPHIC TWP OF ALBION

STA: 9+840
(SEE INSERT A)

CON 2
LOT 7

CON 2
LOT 6

E-3

STA: 311+325

STA: 312+100

HIGHWAY 413

R=2300m

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

CON 1
LOT 6

STA: 10+240
(SEE INSERT B)

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 311+325 TO STATION 312+100

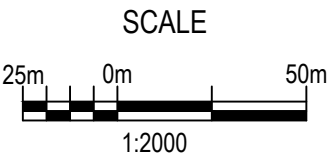
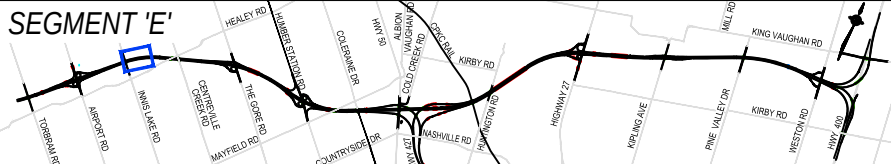
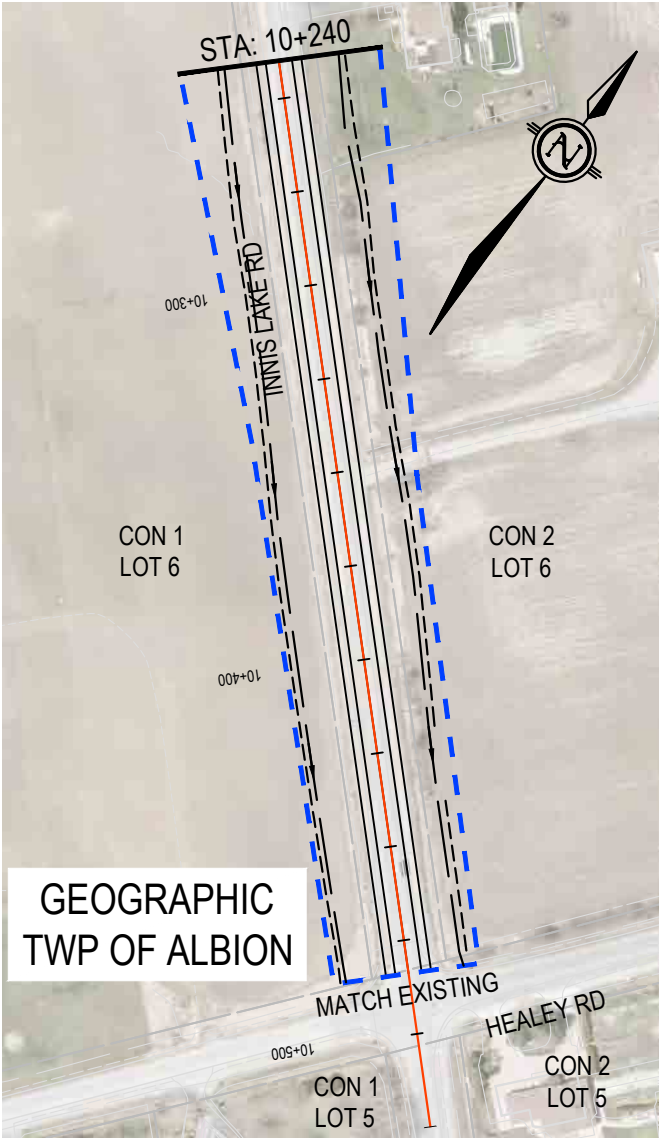
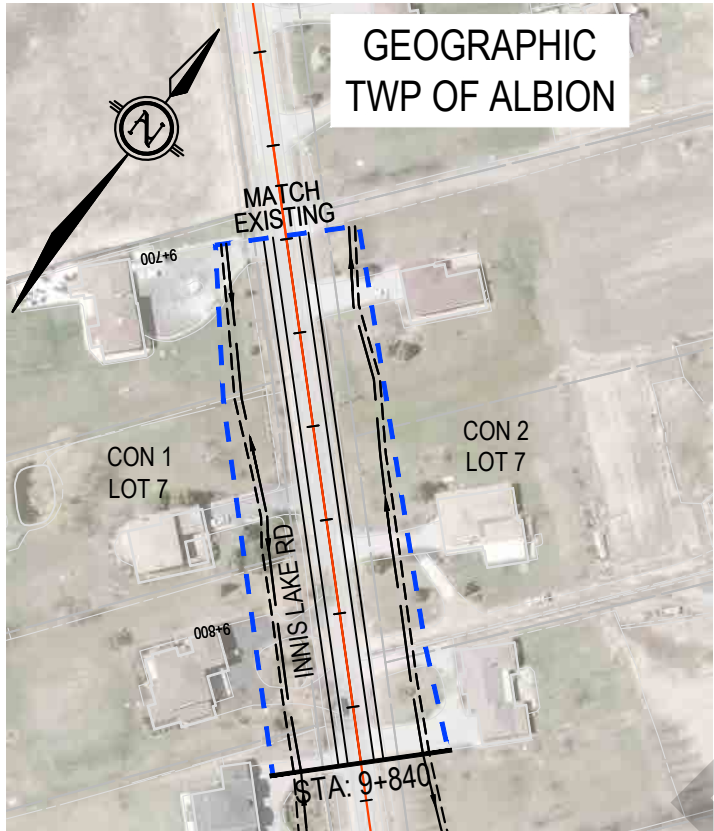


PLATE
E5

PRELIMINARY

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP OF ALBION

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

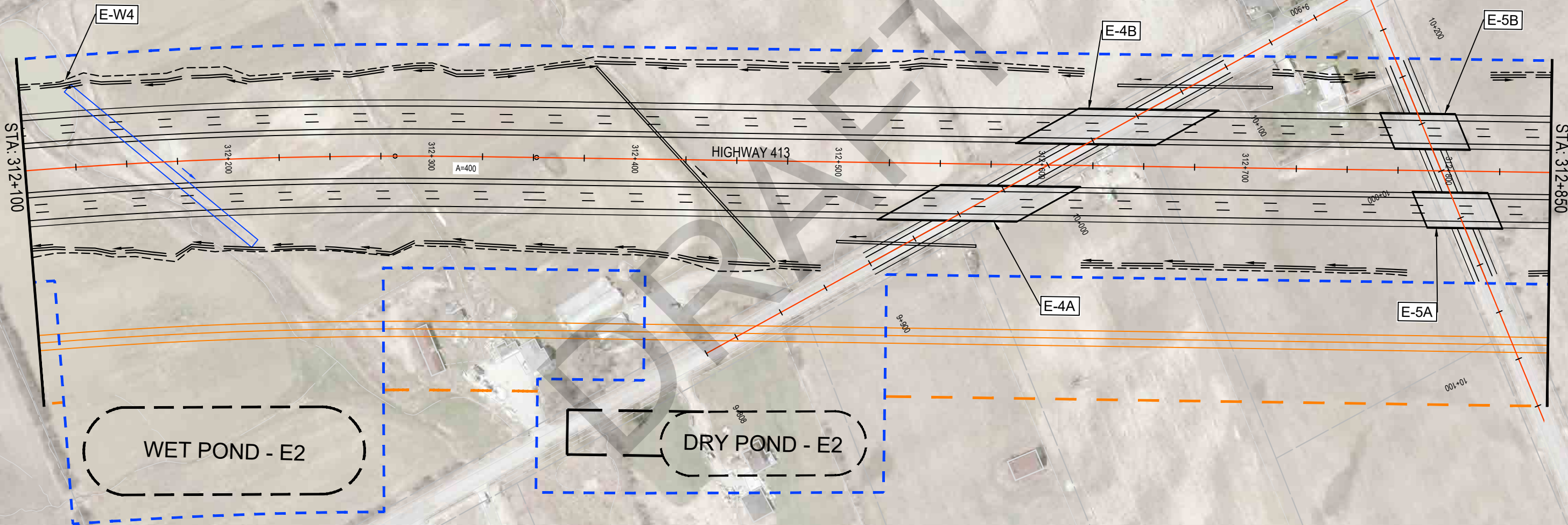
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

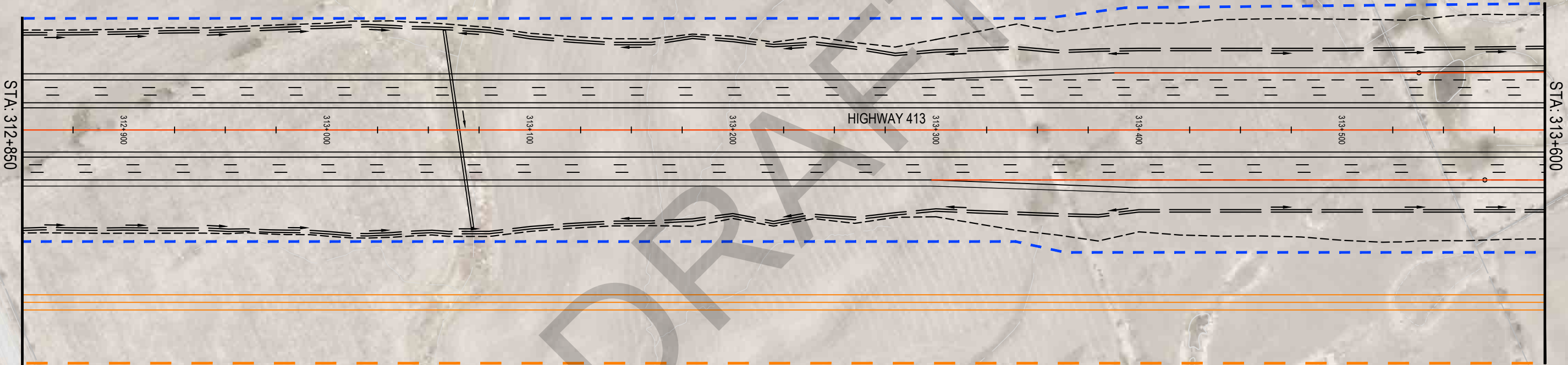
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



GEOGRAPHIC TWP OF ALBION



PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

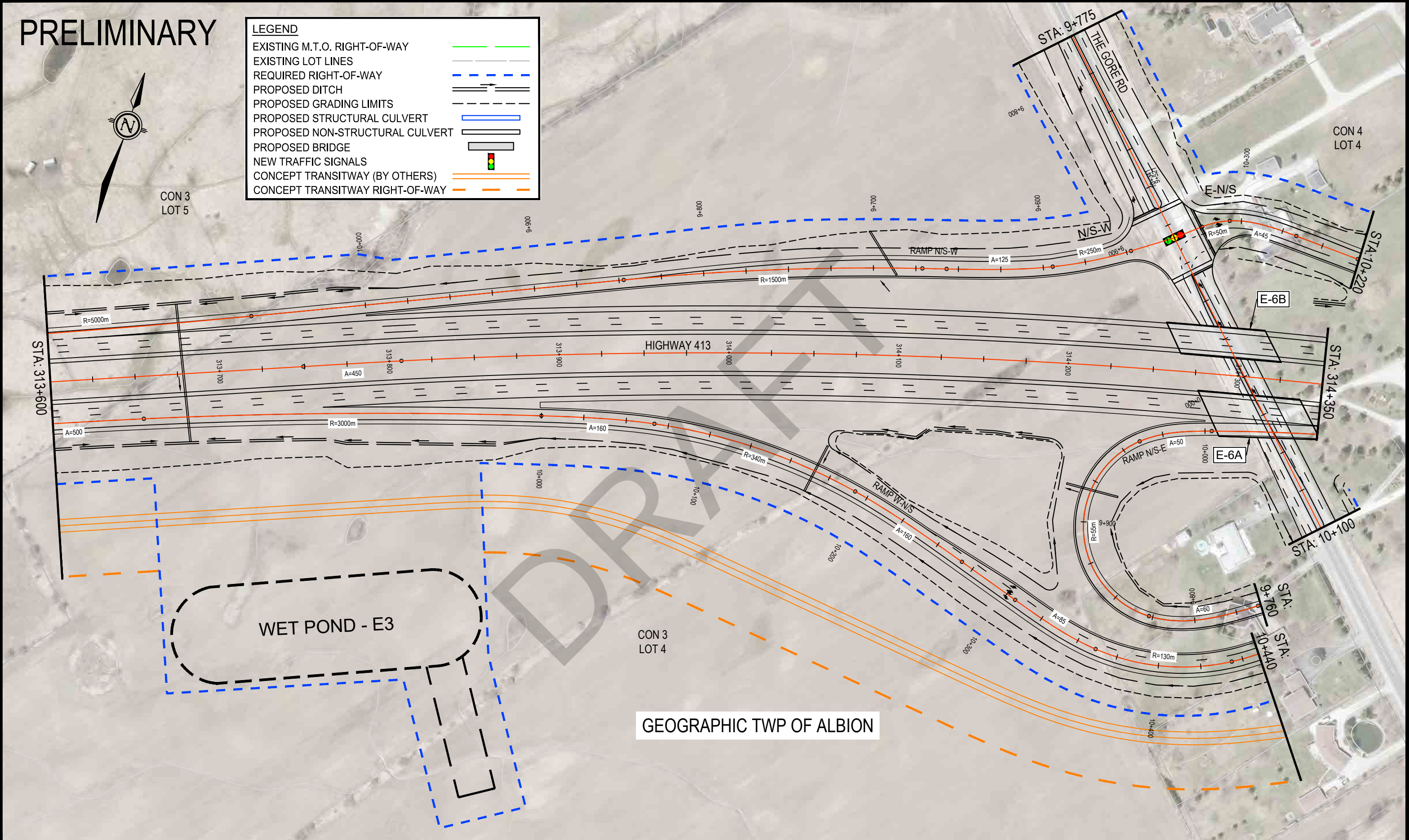
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

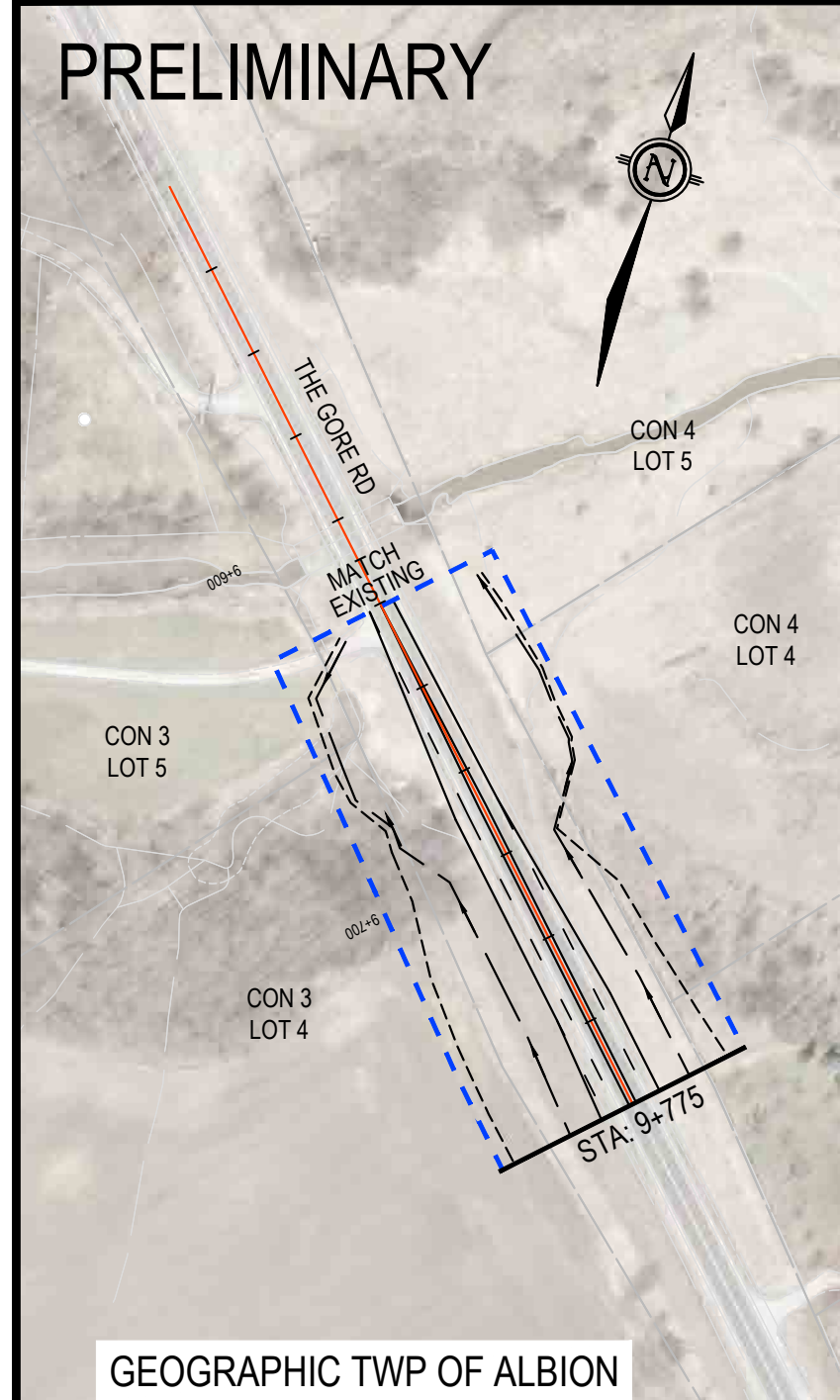
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



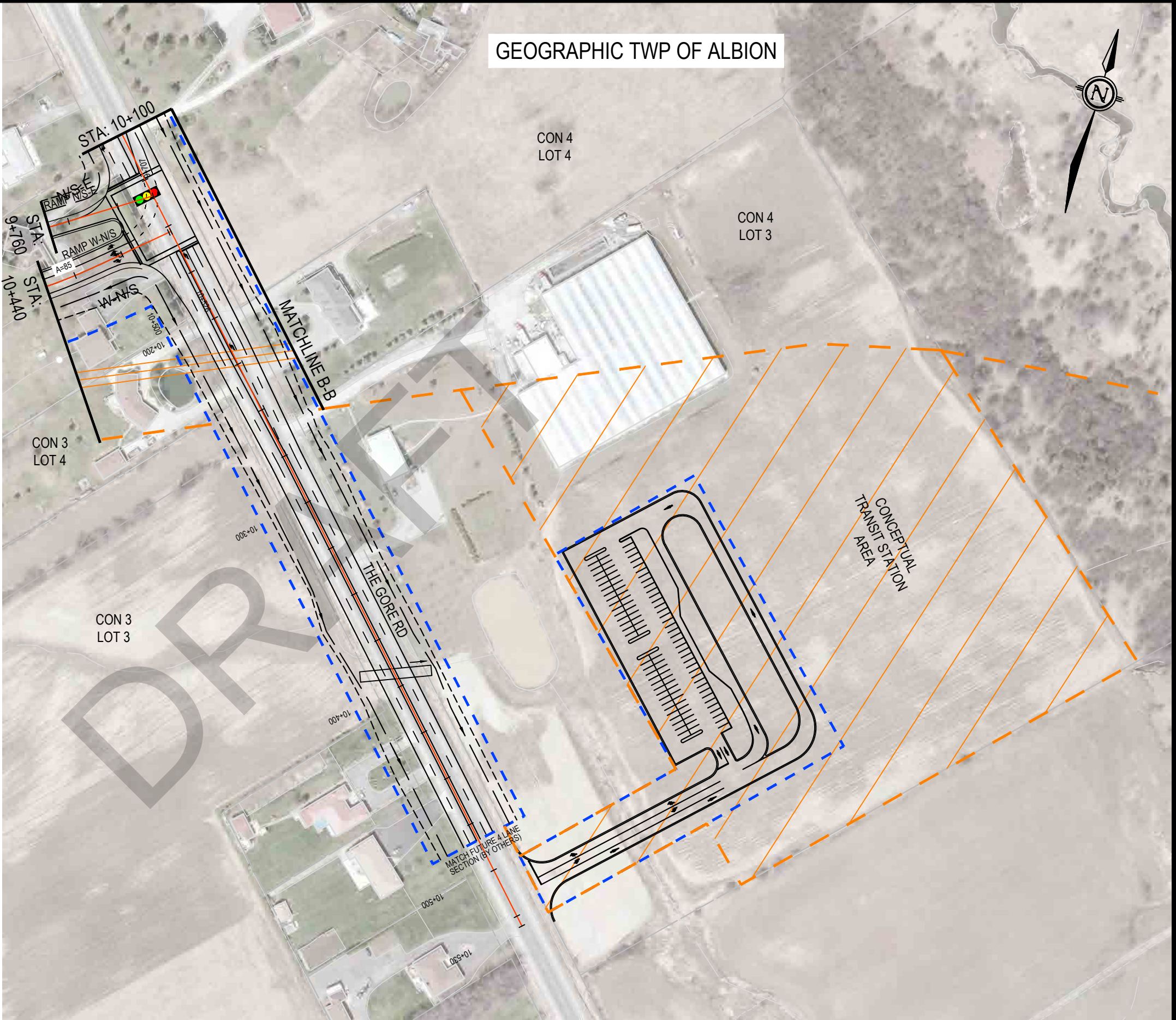
PRELIMINARY



GEOGRAPHIC TWP OF ALBION

LEGEND

- EXISTING M.T.O. RIGHT-OF-WAY
- EXISTING LOT LINES
- REQUIRED RIGHT-OF-WAY
- PROPOSED DITCH
- PROPOSED GRADING LIMITS
- PROPOSED STRUCTURAL CULVERT
- PROPOSED NON-STRUCTURAL CULVERT
- PROPOSED BRIDGE
- NEW TRAFFIC SIGNALS
- CONCEPT TRANSITWAY (BY OTHERS)
- CONCEPT TRANSITWAY RIGHT-OF-WAY



GEOGRAPHIC TWP OF ALBION

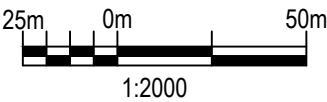
SEGMENT 'E'



PRELIMINARY DESIGN PLAN

GORE ROAD
STATION 9+500 TO STATION 9+775
STATION 10+100 TO STATION 10+530

SCALE



PLATE

E8A

PRELIMINARY

CON 4
LOT 4

 $10+220$

RAMP E-N/S

 $R=2500\text{m}$

R=3528m

HIGHWAY 41

R=3500

STA: 314+350

STA: 315+100

 $P=1100n$

DRY POND

E-W7A

SEE PLATE E8A FOR CONCEPTUAL TRANSIT STATION

MATCHLINE B-B

CON 4
LOT 3

GEOGRAPHIC TWP OF ALBION

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

SEGMENT 'E'

PRELIMINARY DESIGN PLAN

HIGHWAY 413

STATION 314+350 TO STATION 315+100

SCALE

25m 0m 50m

1:2000

PLATE

E9

PRELIMINARY

GEOGRAPHIC TWP OF ALBION



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

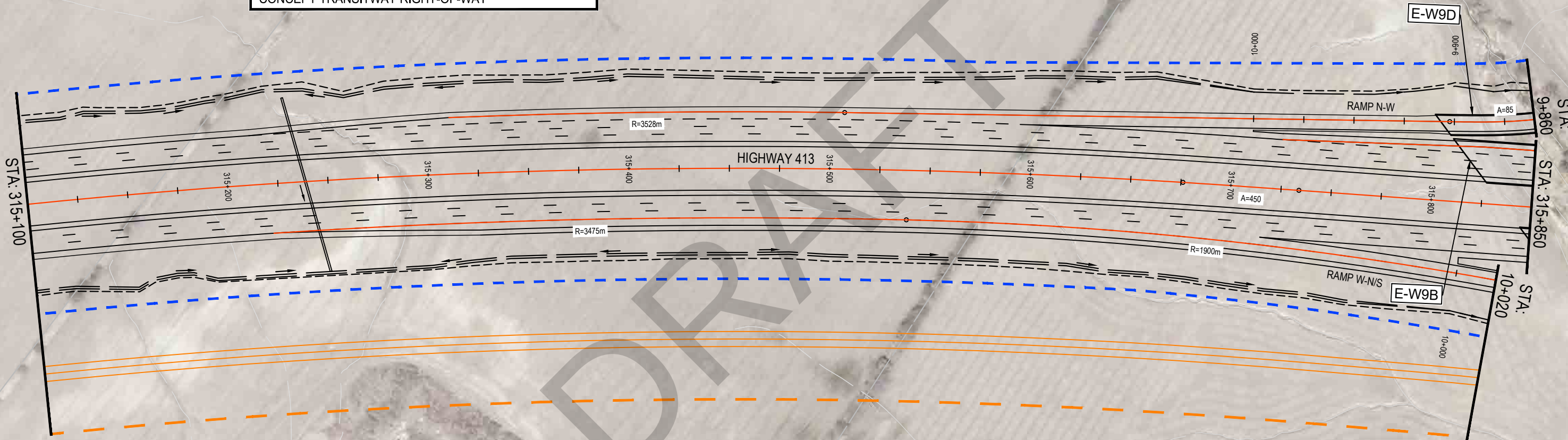
CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

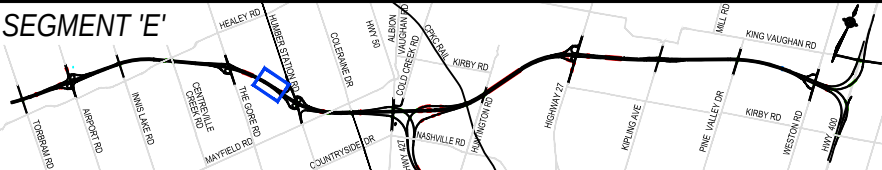
CON 4
LOT 3

CON 4
LOT 2

CON 4
LOT 2



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



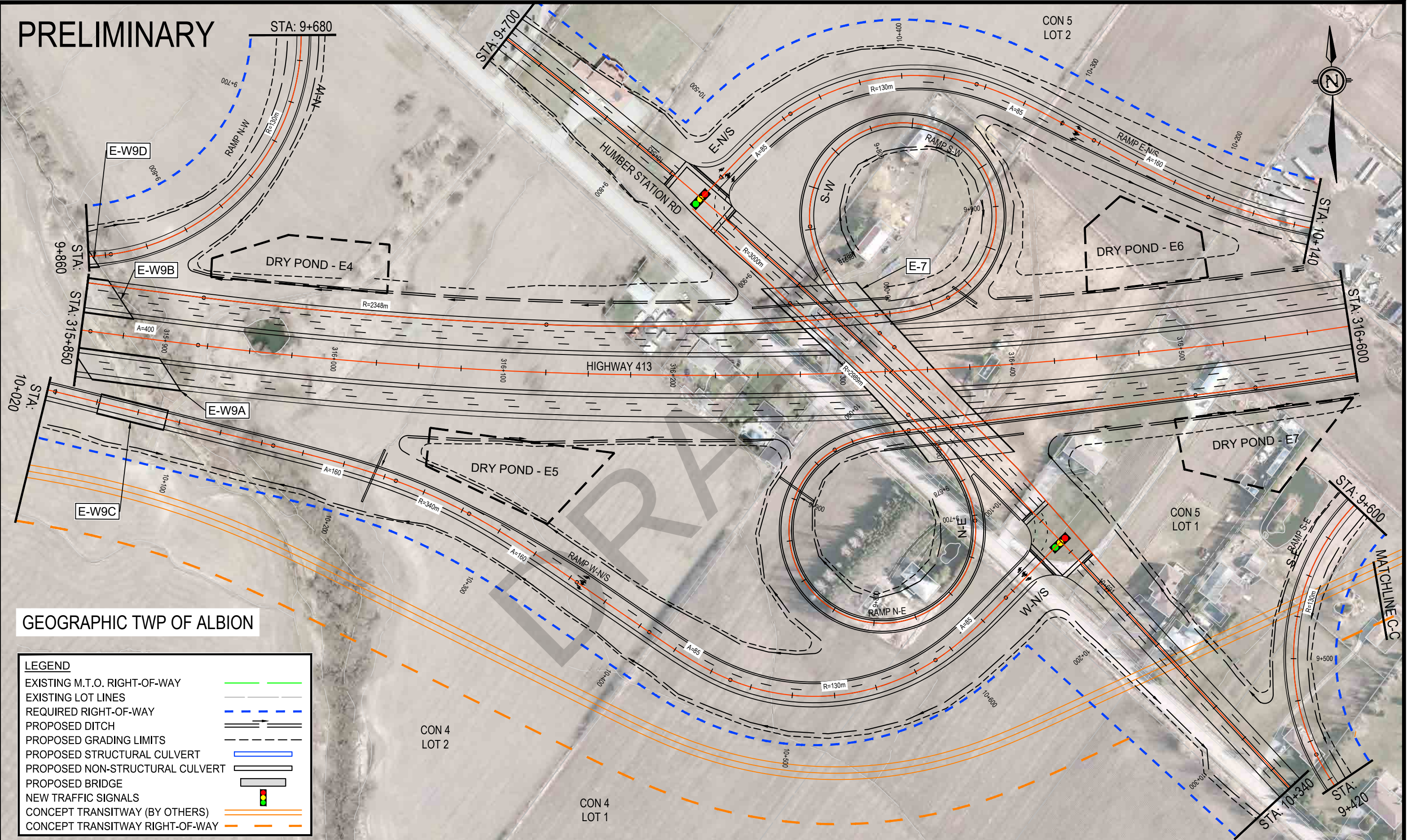
PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 315+100 TO STATION 315+850

SCALE

1:2000

PLATE
E10

PRELIMINARY

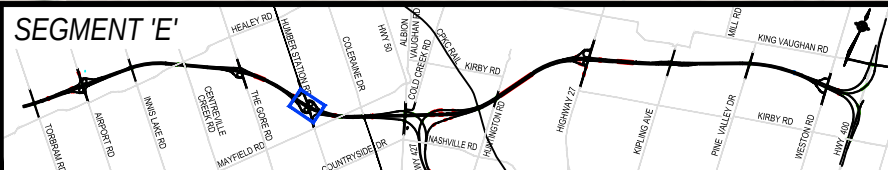


LEGEND

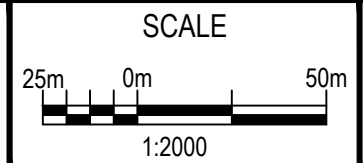
EXISTING M.T.O. RIGHT-OF-WAY	—
EXISTING LOT LINES	—
REQUIRED RIGHT-OF-WAY	—
PROPOSED DITCH	—
PROPOSED GRADING LIMITS	—
PROPOSED STRUCTURAL CULVERT	—
PROPOSED NON-STRUCTURAL CULVERT	—
PROPOSED BRIDGE	—
NEW TRAFFIC SIGNALS	—
CONCEPT TRANSITWAY (BY OTHERS)	—
CONCEPT TRANSITWAY RIGHT-OF-WAY	—



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 315+850 TO STATION 316+600



PLATE

E11

PRELIMINARY

CON 4
LOT 3

CON 5
LOT 3

GEOGRAPHIC TWP
OF ALBION

CON 5
LOT 2

STA: 9+700

GEOGRAPHIC TWP
OF ALBION

CON 4
LOT 1

CONCEPT
TRANSIT STATION
AREA

CON 5
LOT 1

MAYFIELD RD

MATCH FUTURE 4 LANE
SECTION (BY OTHERS)

CON 11 NORTHERN DIVISION
LOT 17

CON 10
NORTHERN DIVISION
LOT 17

CLARKWAY DR

GEOGRAPHIC TWP
OF TORONTO GORE

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



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HIGHWAY 413
PRELIMINARY DESIGN
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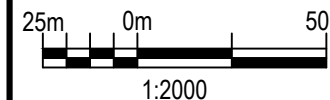
SEGMENT 'E'



PRELIMINARY DESIGN PLAN

HUMBER STATION
STATION 9+232 TO STATION 9+700
STATION 10+340 TO STATION 10+596

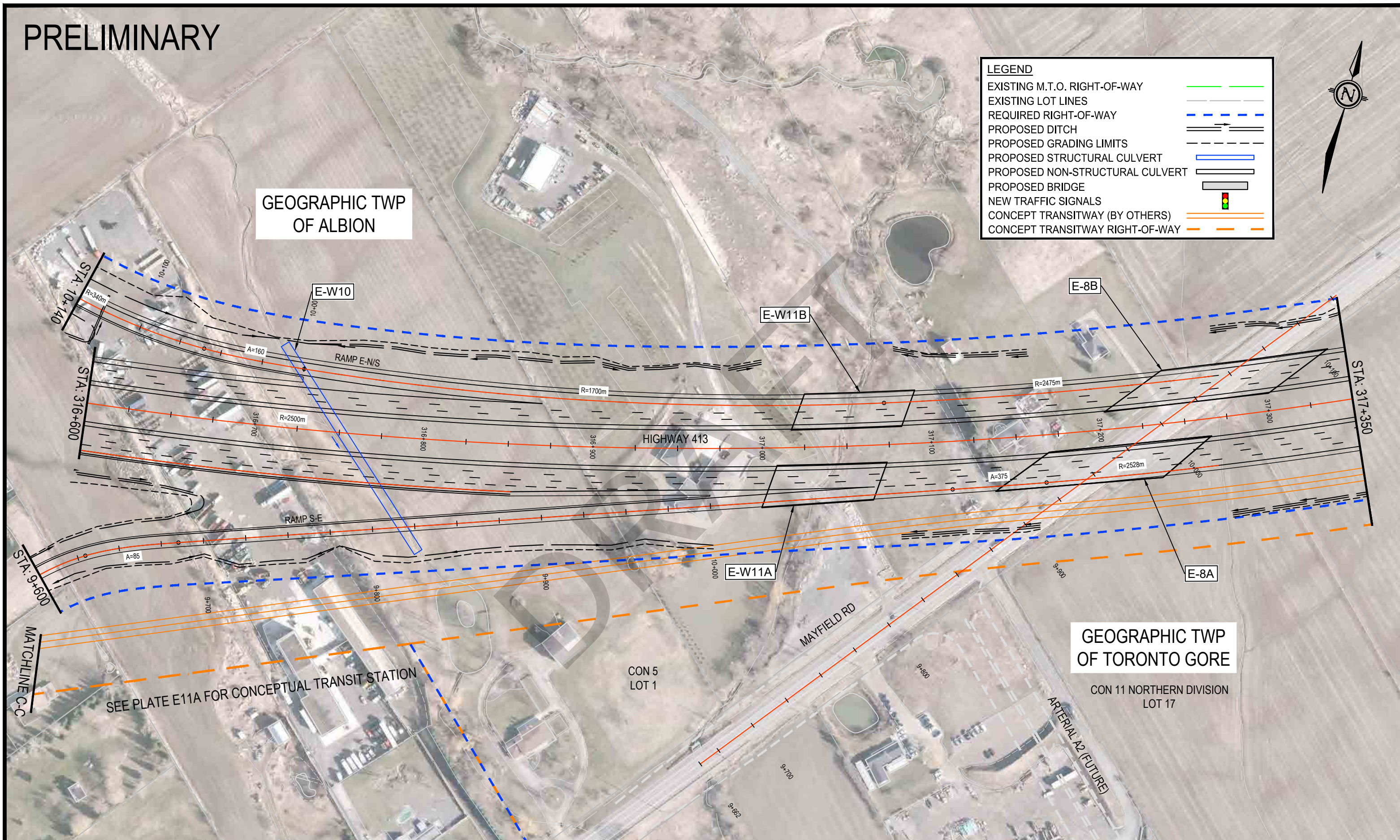
SCALE



PLATE

E11A

PRELIMINARY

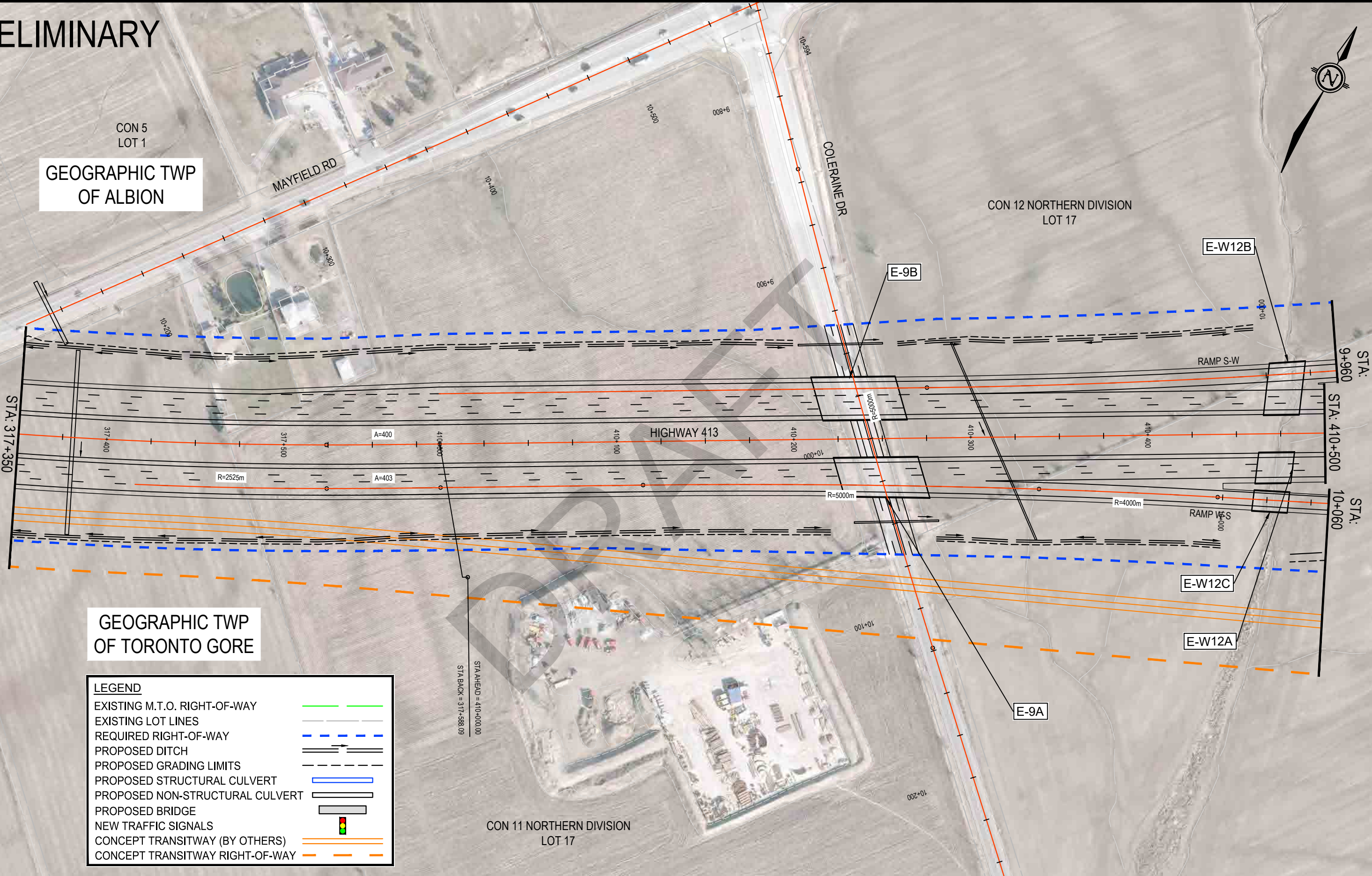


PRELIMINARY



GEOGRAPHIC TWP
OF ALBION

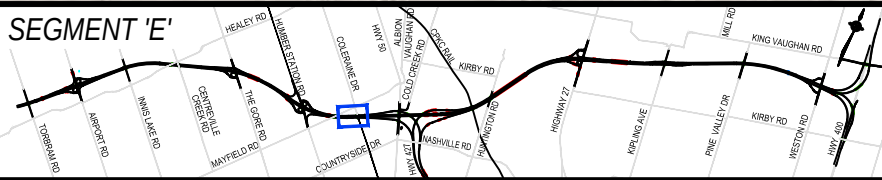
CON 12 NORTHERN DIVISION
LOT 17



GEOGRAPHIC TWP
OF TORONTO GORE

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

CON 11 NORTHERN DIVISION
LOT 17



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001

PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 317+350 TO STATION 410+500

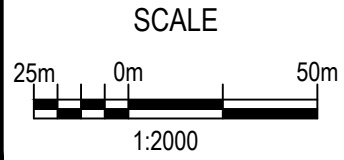


PLATE
E13

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

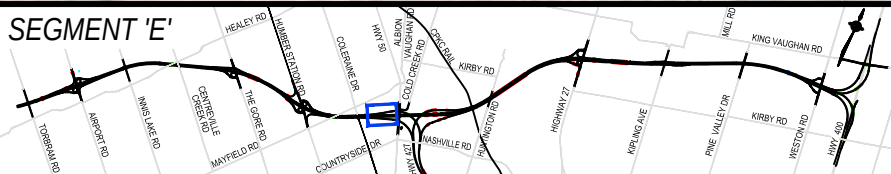
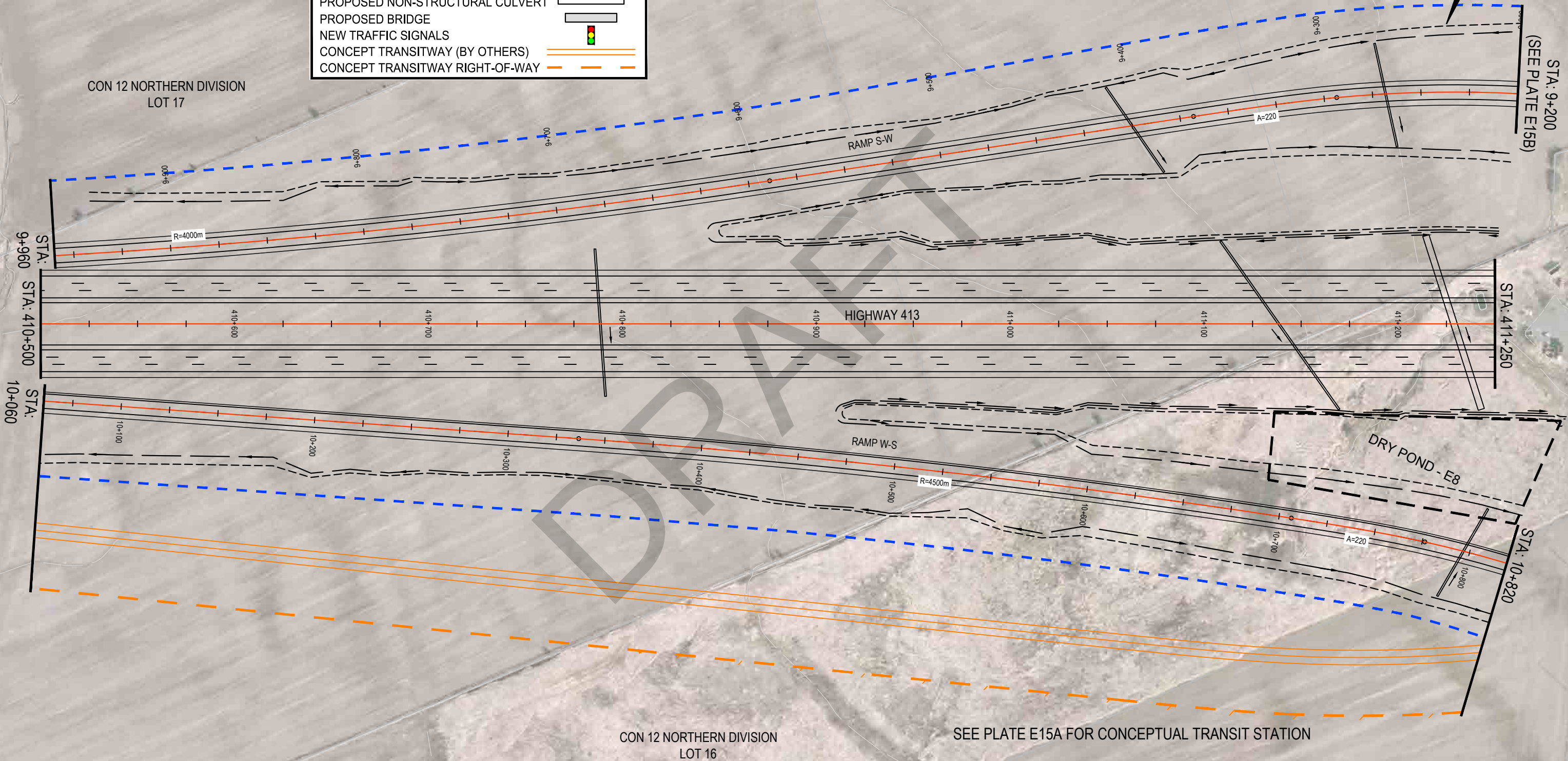
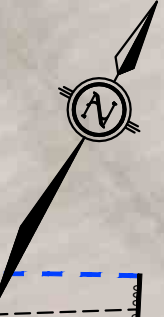
PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

GEOGRAPHIC TWP
OF TORONTO GORE



PRELIMINARY

CON 12
NORTHERN DIVISION
LOT 17

CON 10
LOT 28



GEOGRAPHIC TWP OF TORONTO GORE

GEOGRAPHIC TWP OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

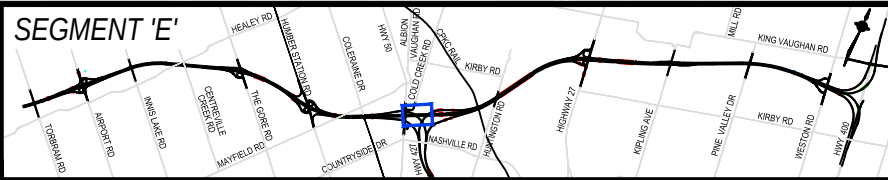
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

CON 12
NORTHERN DIVISION
LOT 16

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 411+250 TO STATION 510+700

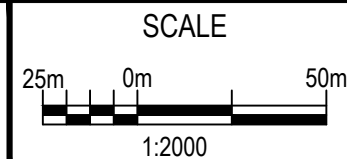
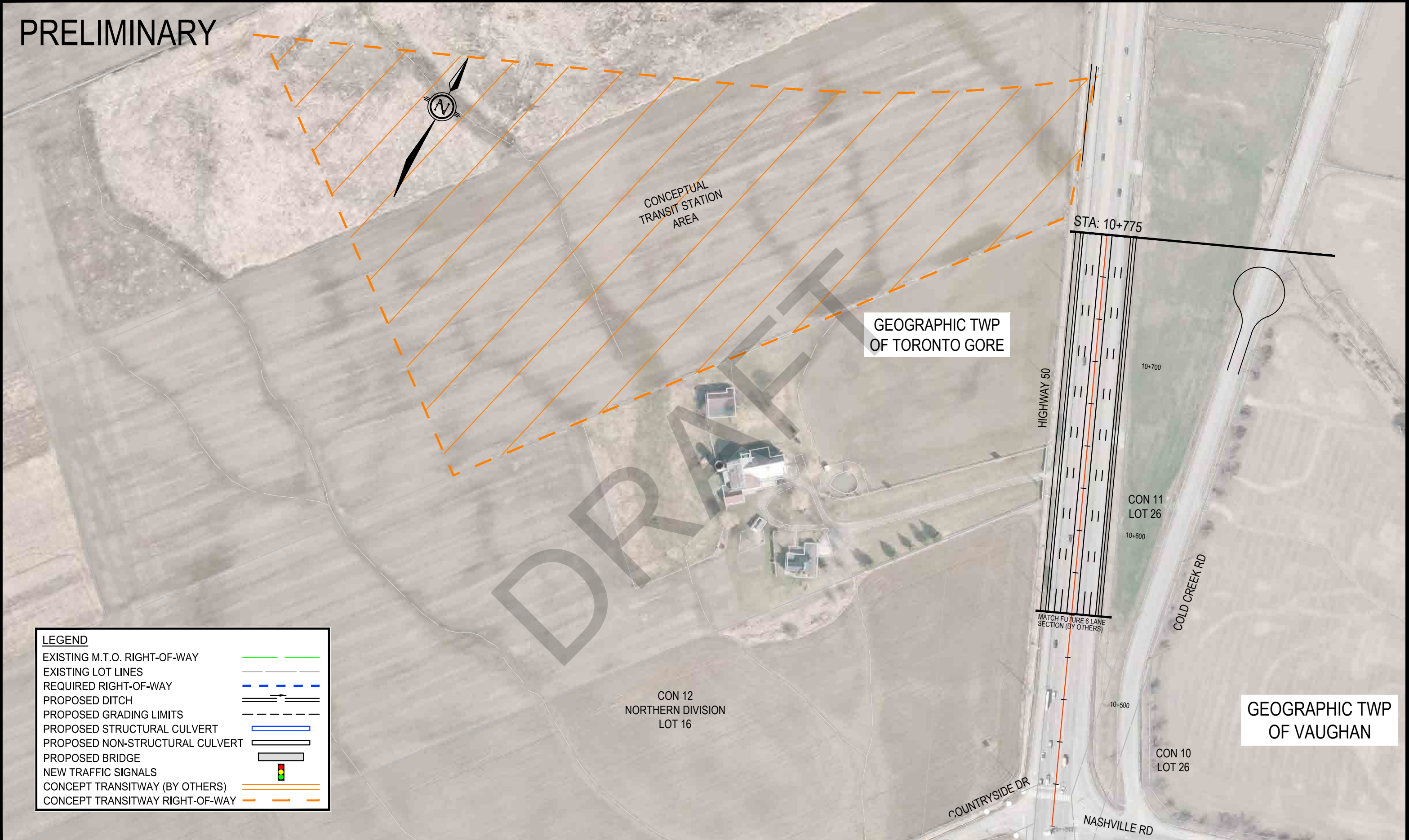


PLATE
E15

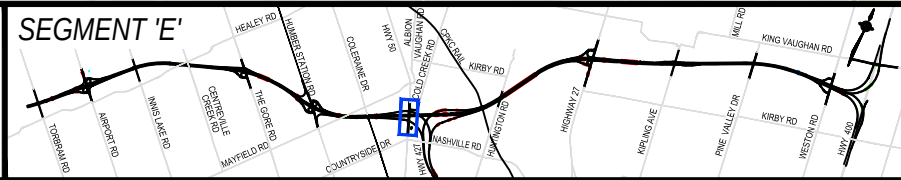
PRELIMINARY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 50
STATION 10+425 TO STATION 10+775

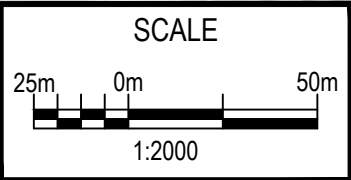


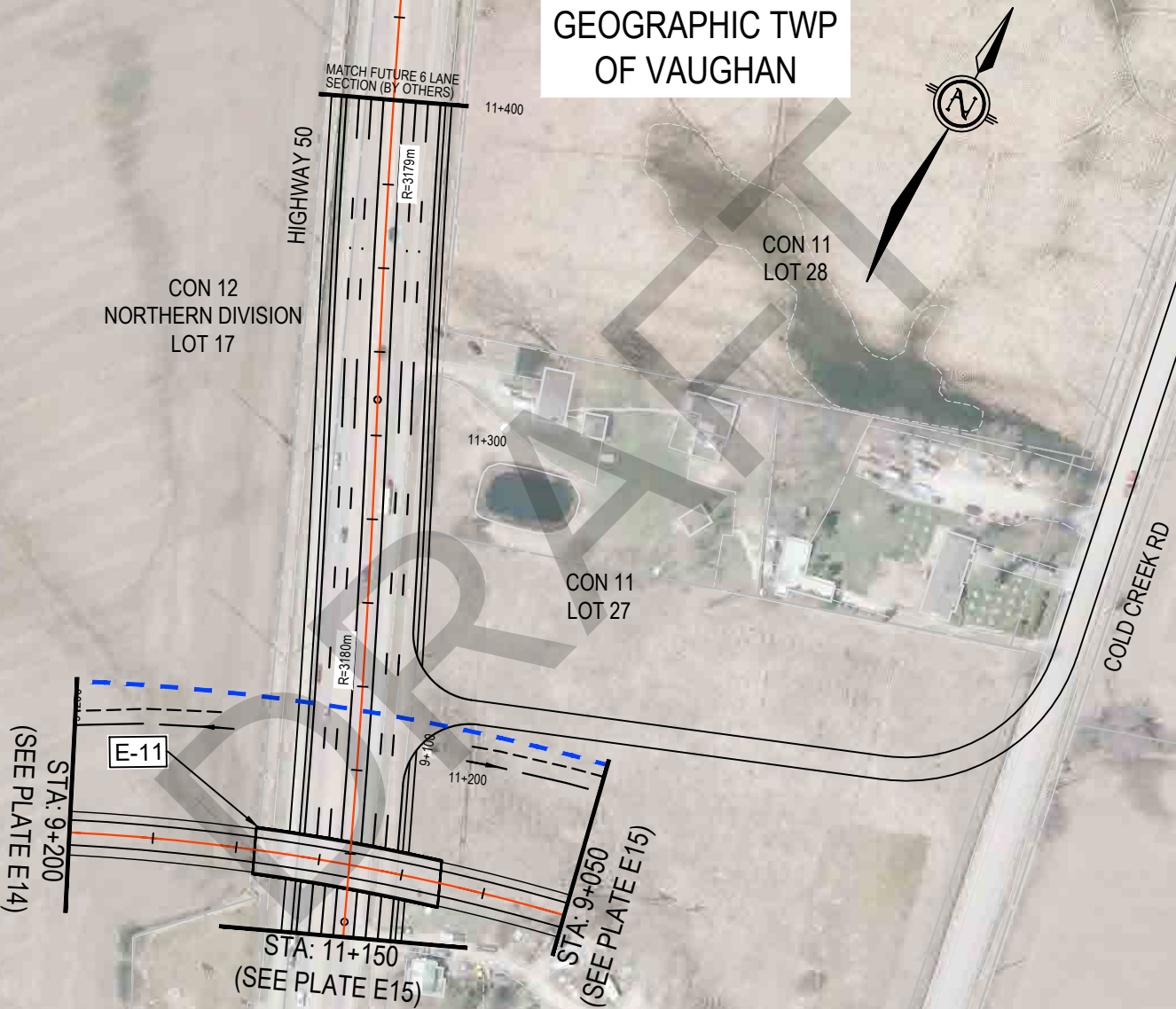
PLATE
E15A

PRELIMINARY

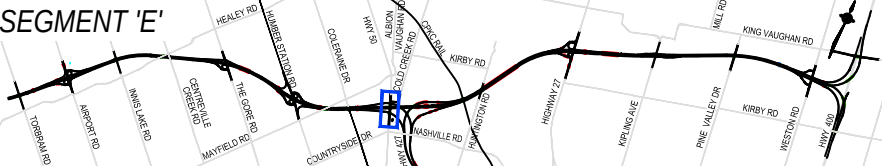
LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

GEOGRAPHIC
TWP OF
TORONTO
GORE

GEOGRAPHIC TWP
OF VAUGHAN



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 50
STATION 11+150 TO STATION 11+450

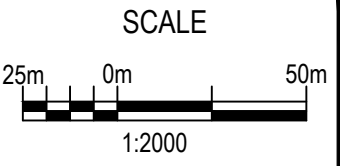
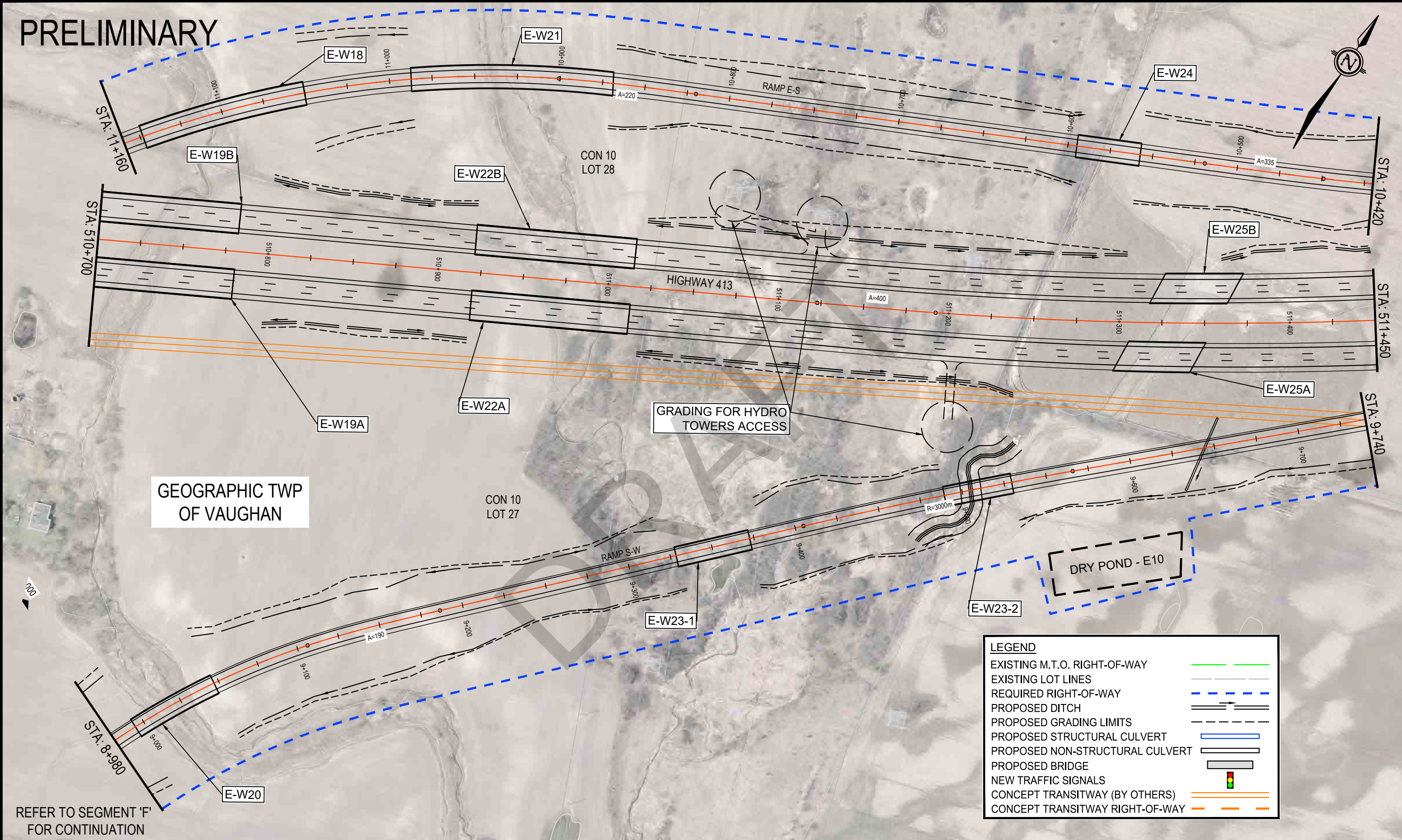


PLATE
E15B

PRELIMINARY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

REFER TO SEGMENT 'F' FOR CONTINUATION

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

GEOGRAPHIC TWP
OF VAUGHAN



CON 10
LOT 29

CON 10
LOT 28

CPKC RAIL

E-16B

HIGHWAY 413

E-16A

SEE PLATE E18A FOR CONCEPTUAL TRANSIT STATION

CON 10
LOT 27

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

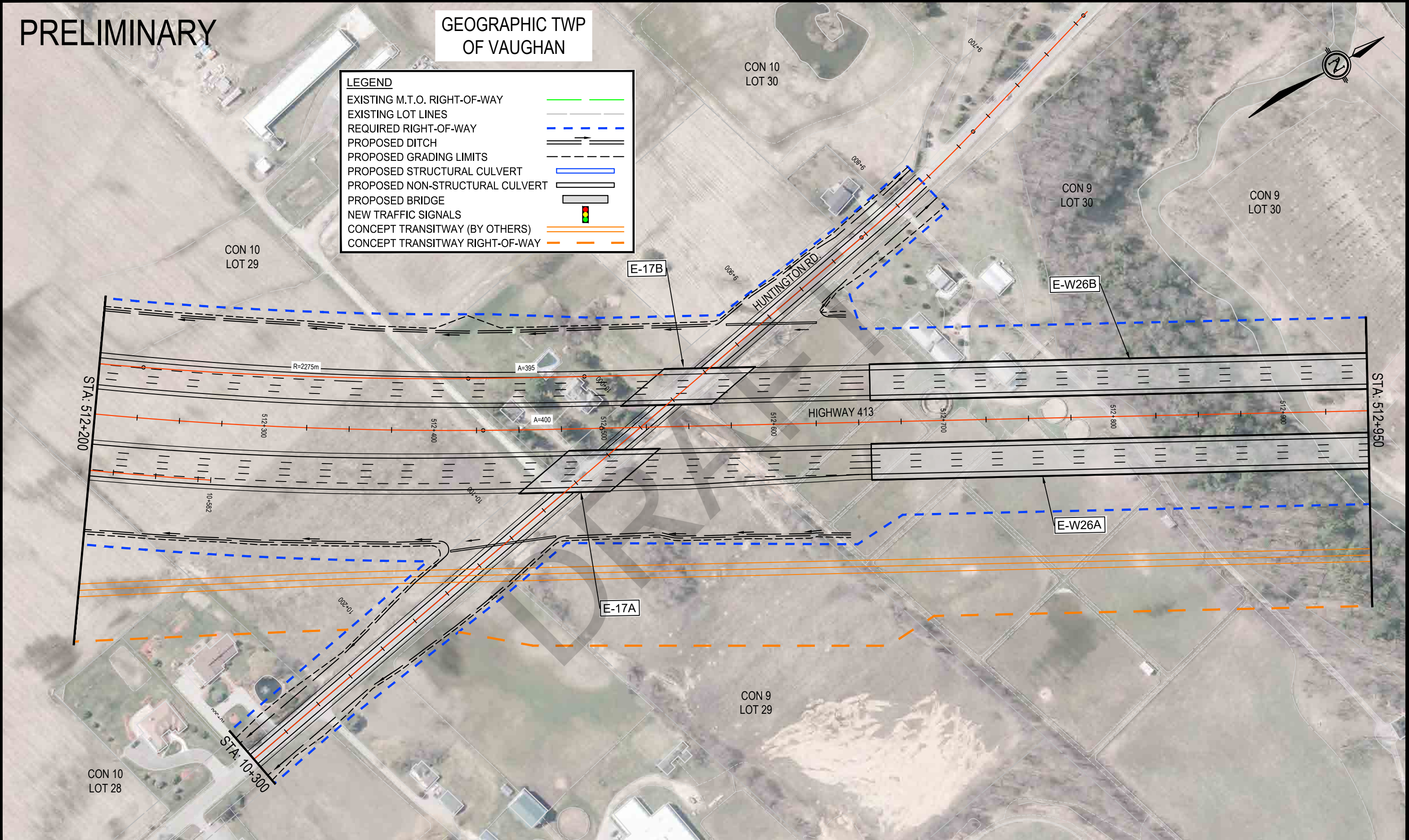
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

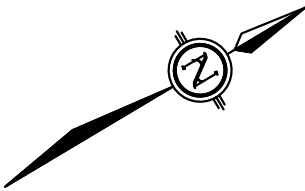
CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

WET POND - E4

CONCEPTUAL
TRANSIT STATION
AREA

STA: 10+300

EXISTING

CON 10
LOT 28

CON 10
LOT 27

CON 9
LOT 29

CON 9
LOT 28

wsp

AECOM

Ontario

Ministry of
Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HUNTINGTON
STATION 10+300 TO STATION 10+700

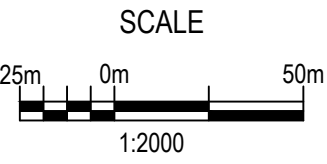


PLATE
E18A

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

CON 9
LOT 31

CON 9
LOT 31

CON 9
LOT 32

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

E-W26B

STA: 512+950

STA: 513+700

HIGHWAY 413

E-W26A

CON 9
LOT 30

CON 9
LOT 30

CON 9
LOT 31

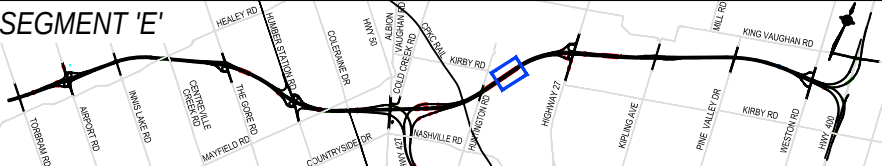
wsp

AECOM

Ontario

Ministry of
Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 512+950 TO STATION 513+700

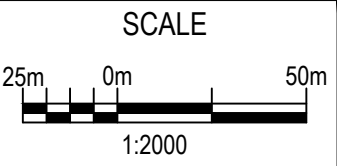


PLATE
E19

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

CON 9
LOT 32

CON 9
LOT 33

GEOGRAPHIC TWP
OF VAUGHAN

E-W27

HIGHWAY 413

STA: 513+700

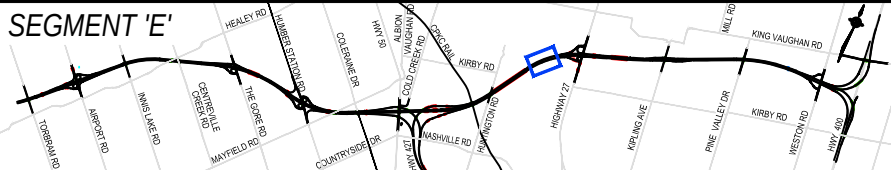
STA: 514+450

DRY POND
- E11

DRY POND
- E12

CON 9
LOT 31

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 513+700 TO STATION 514+450

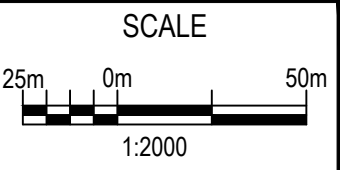


PLATE
E20

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

CON 9
LOT 33

CON 9
LOT 33

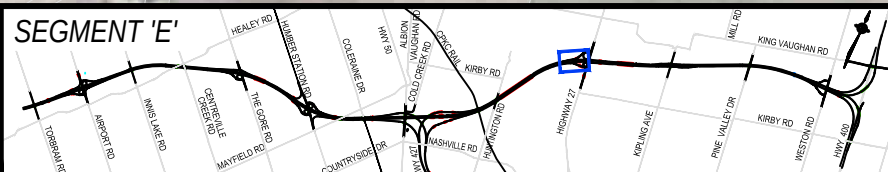
CON 9
LOT 32

SEE PLATE E22A FOR CONCEPTUAL TRANSIT STATION

CON 8
LOT 32



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 514+450 TO STATION 515+200

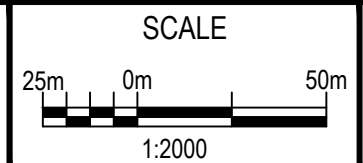
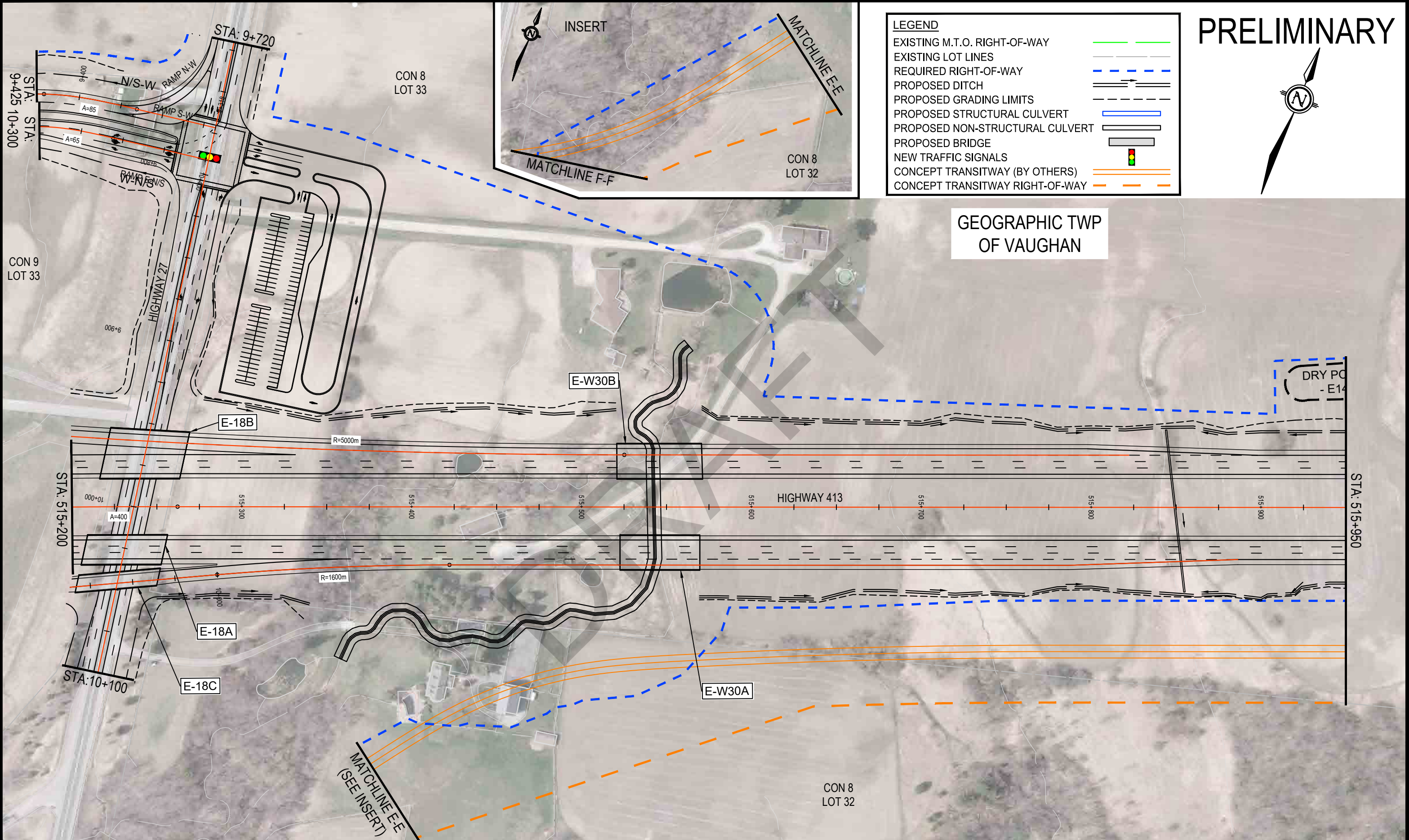


PLATE
E21



LEGEND

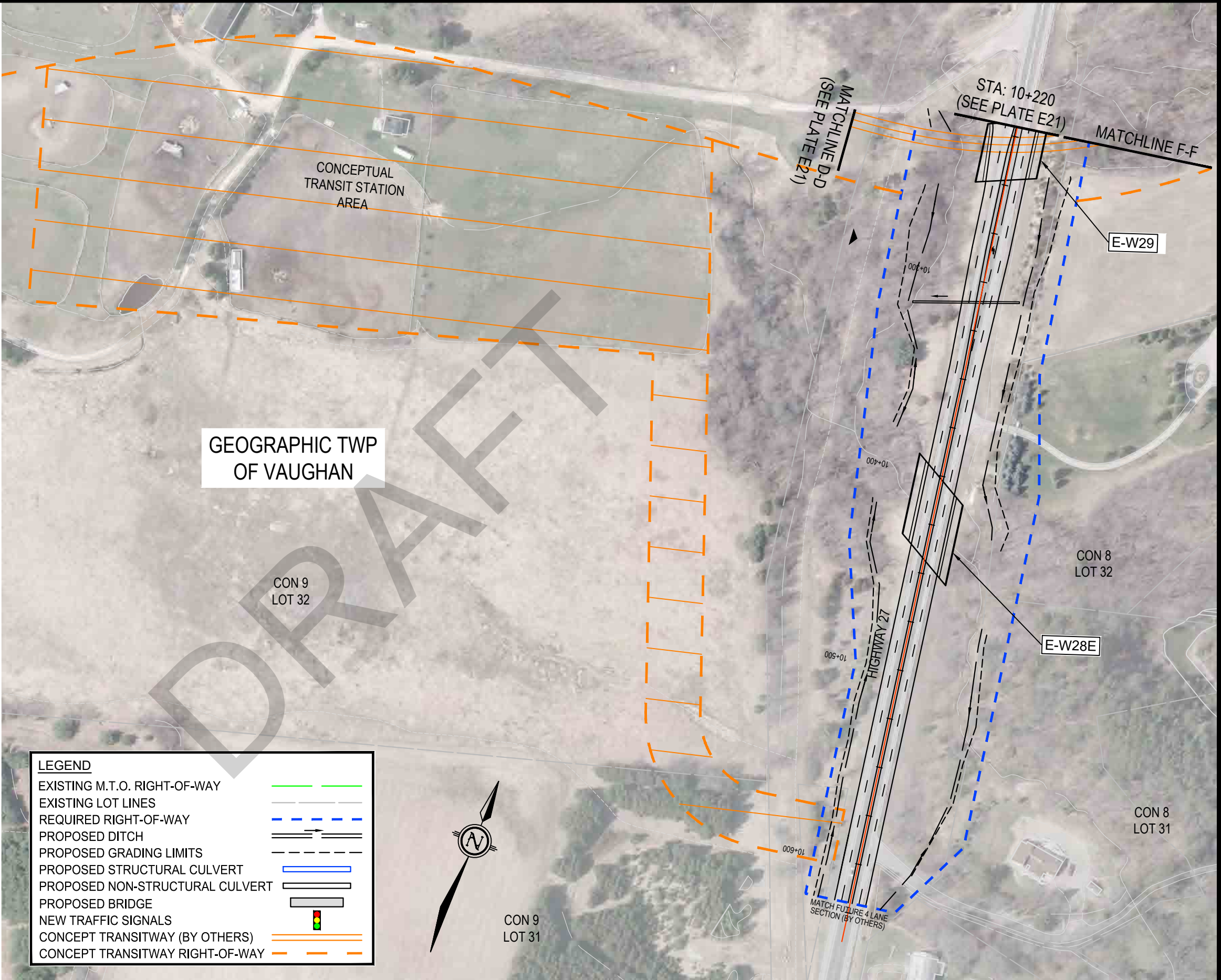
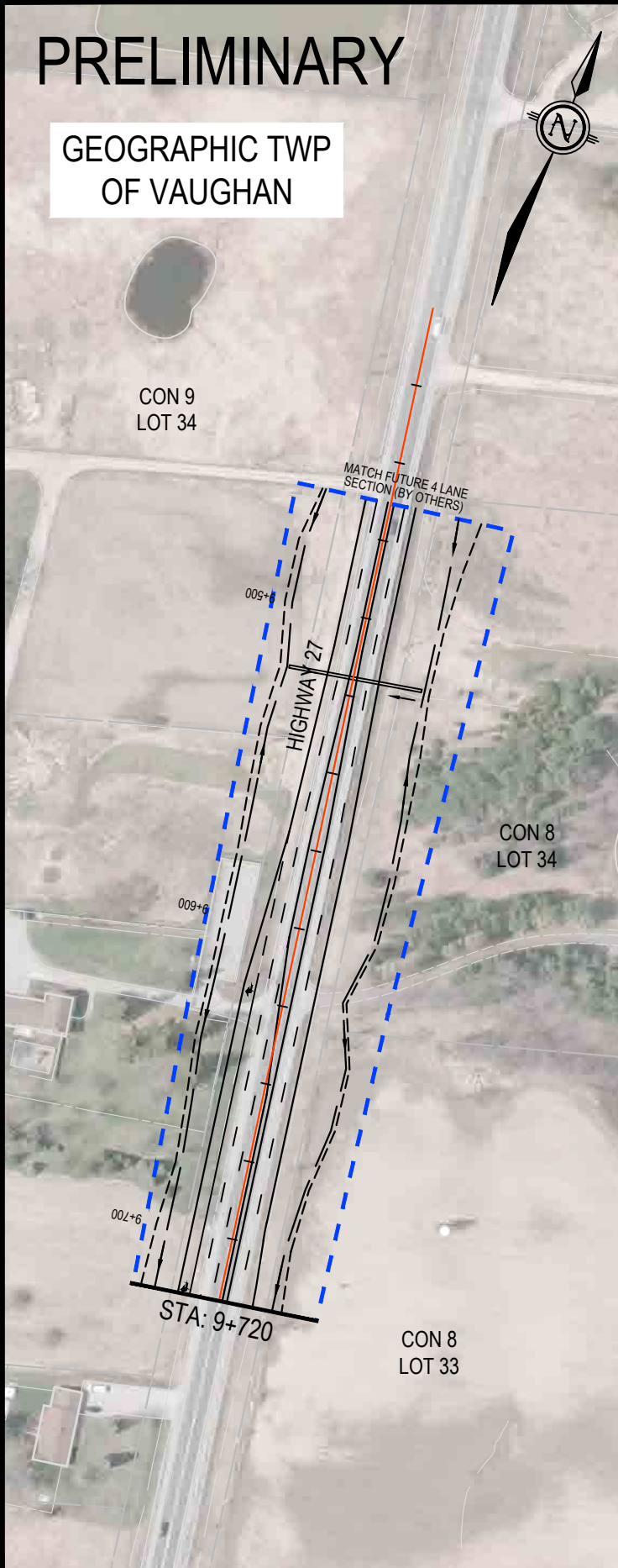
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

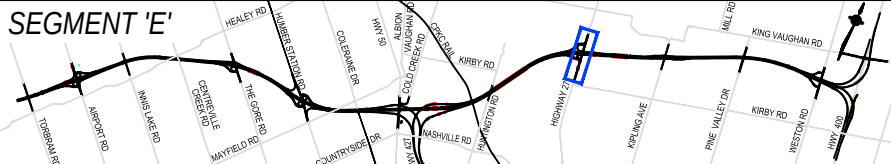
PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

CON 8
LOT 33

EAST HUMBER RIVER

E-W31B

HIGHWAY 413

E-W31A

CON 8
LOT 32

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

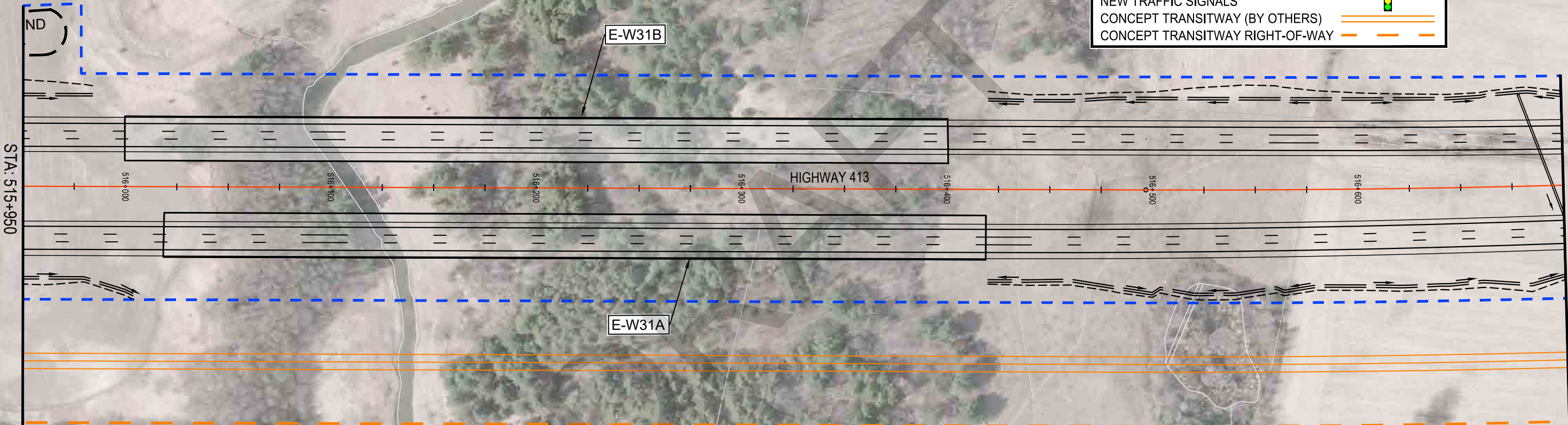
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

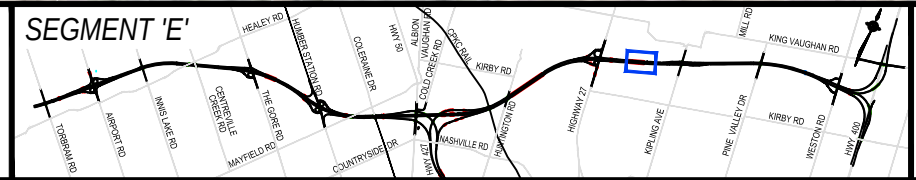
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 515+950 TO STATION 516+700

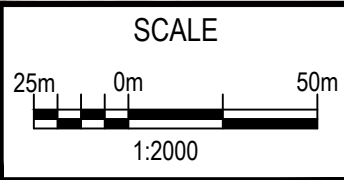


PLATE
E23

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

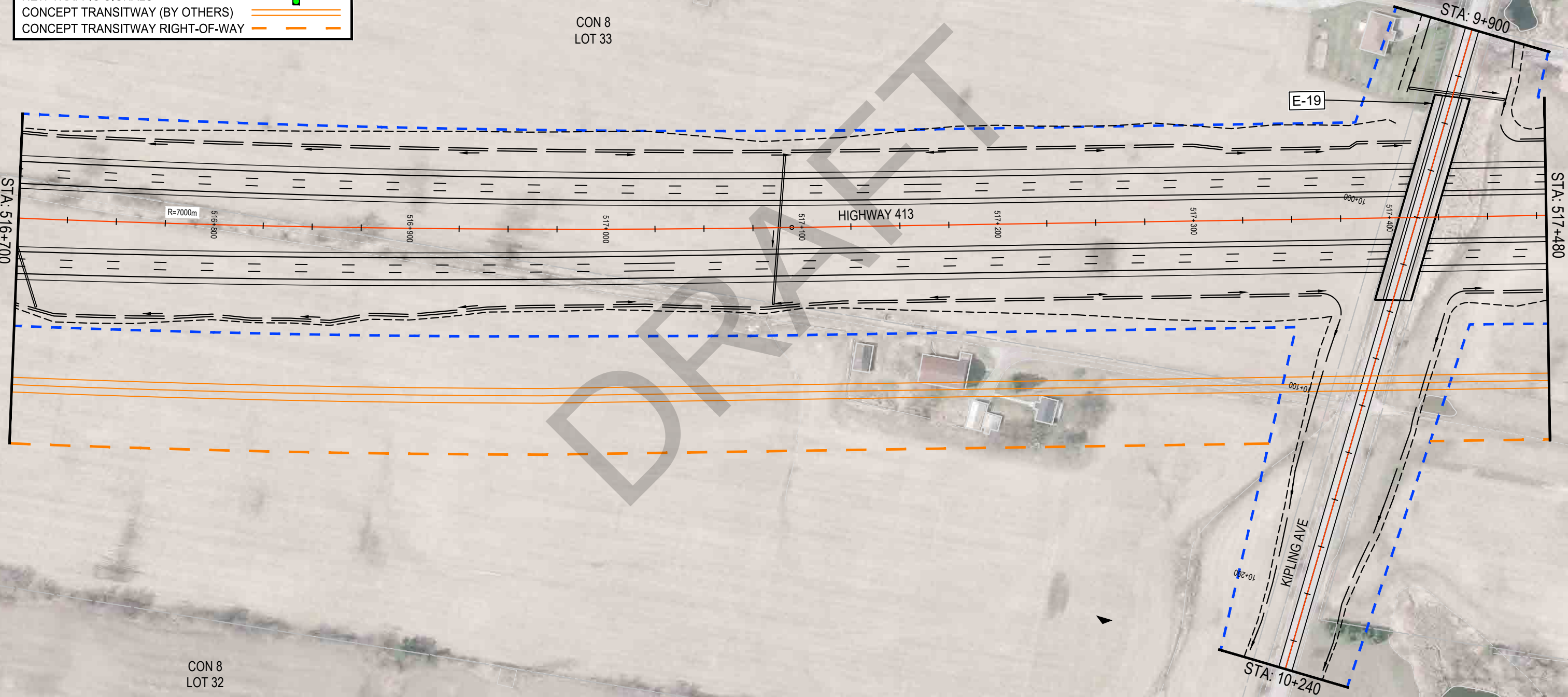
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



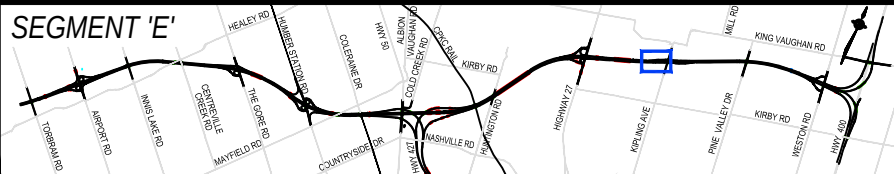
wsp

AECOM

Ontario

Ministry of Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 516+700 TO STATION 517+480

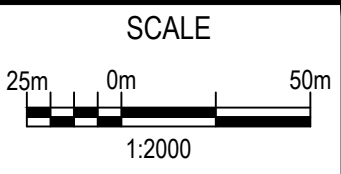
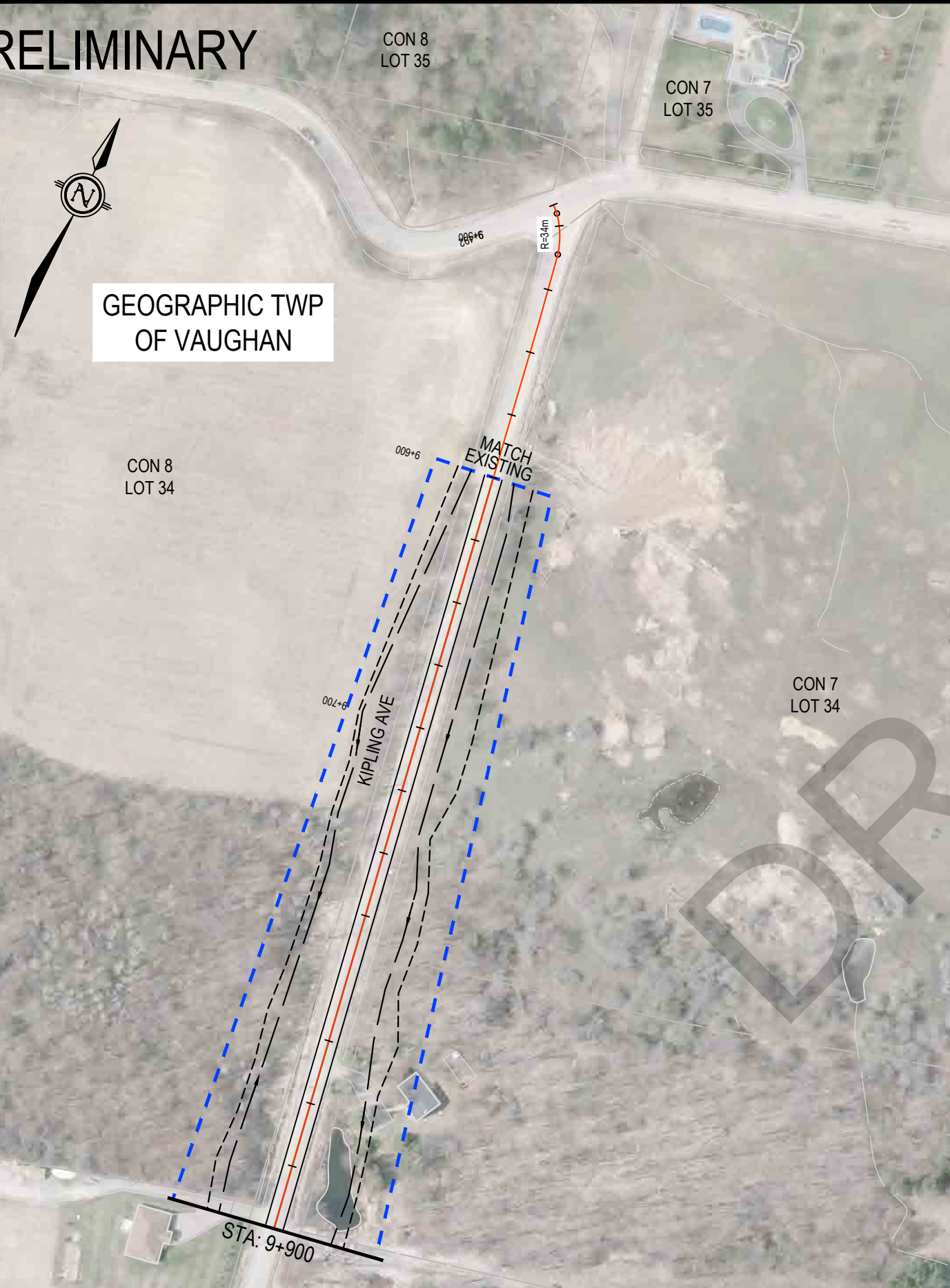


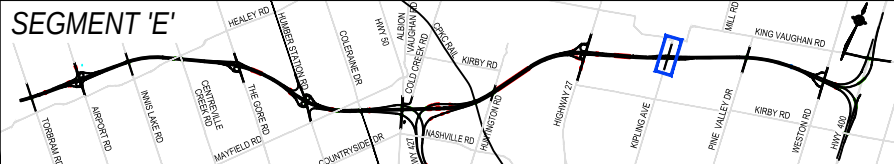
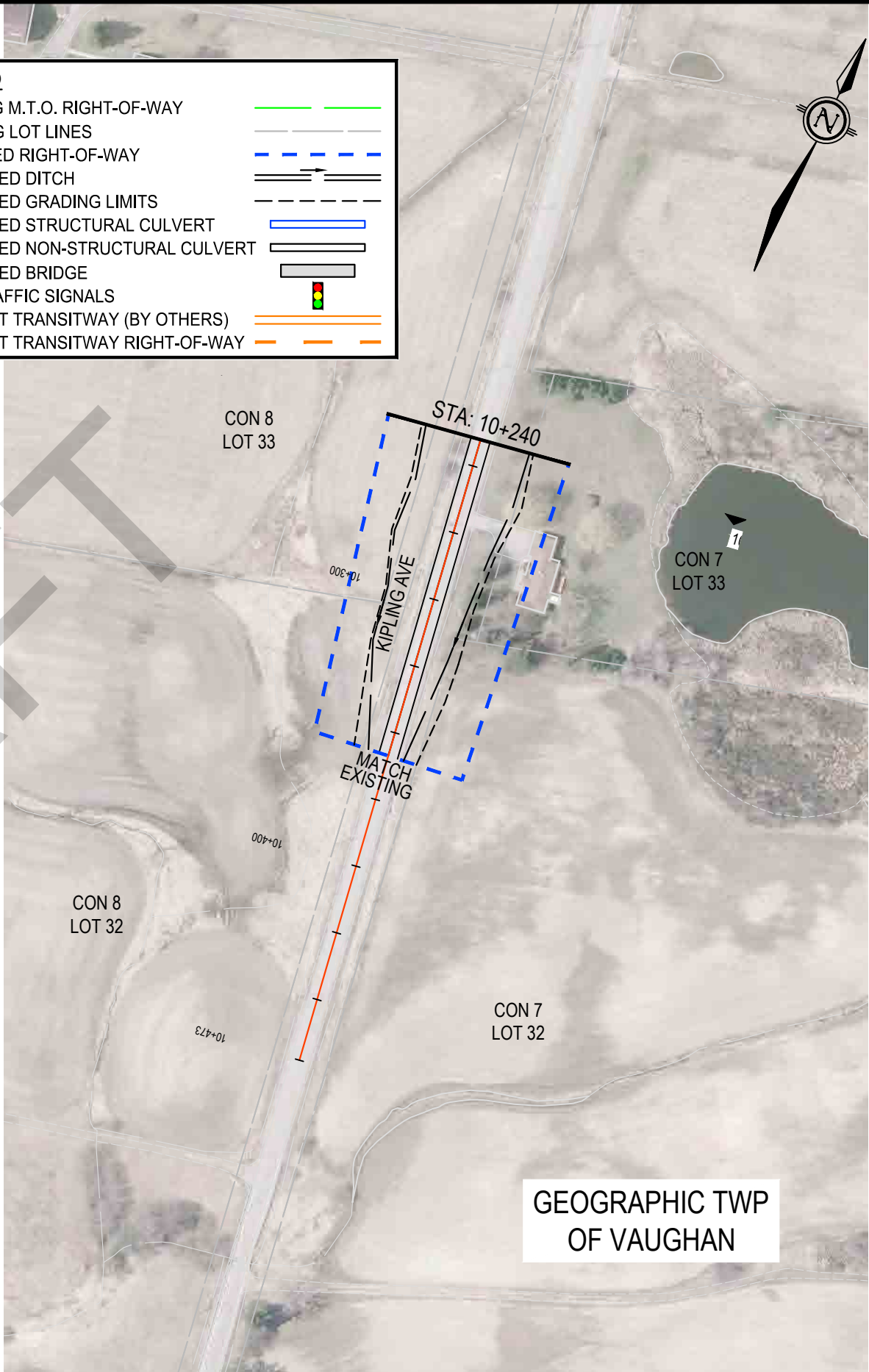
PLATE
E24

PRELIMINARY



LEGEND

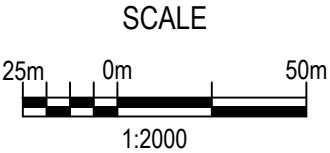
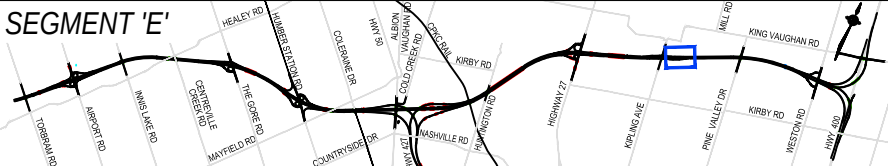
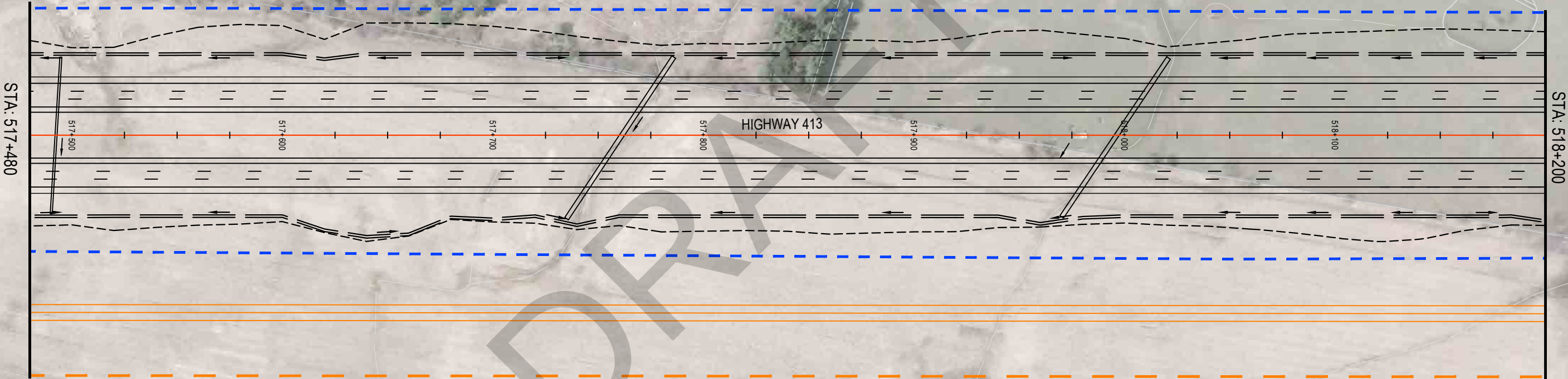
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

LEGEND	
EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

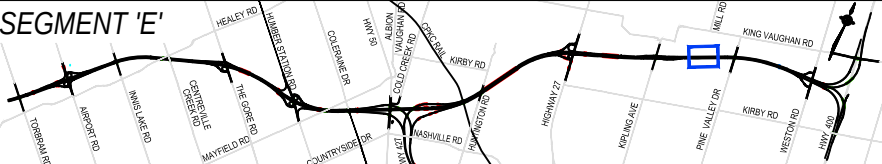
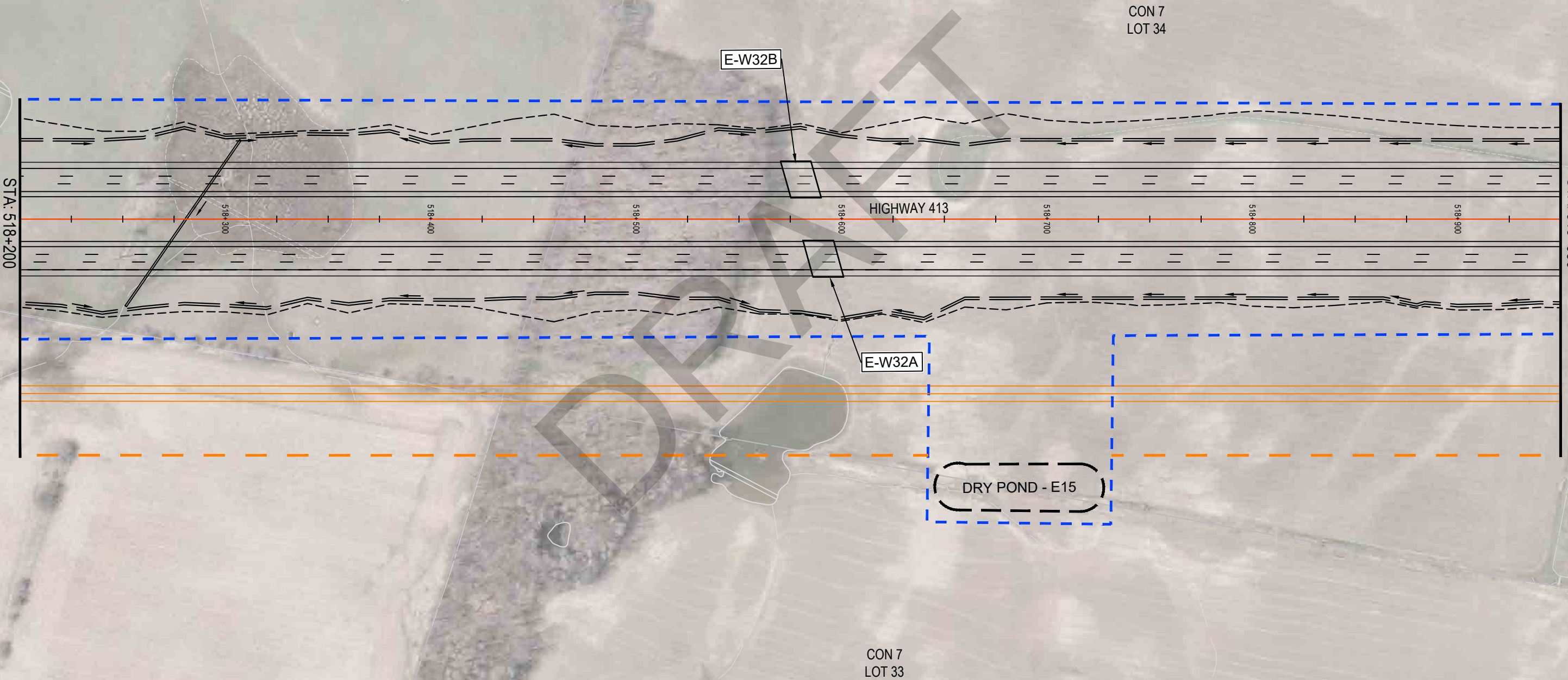
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

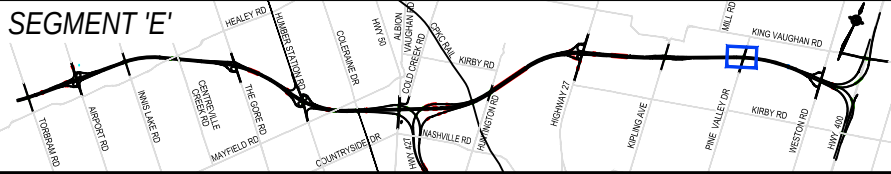
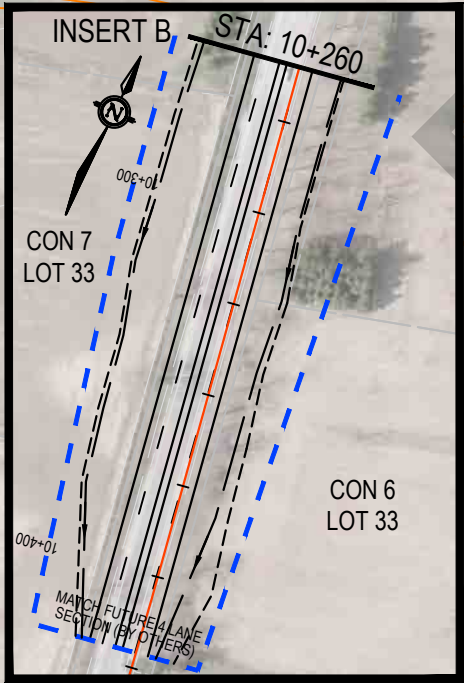
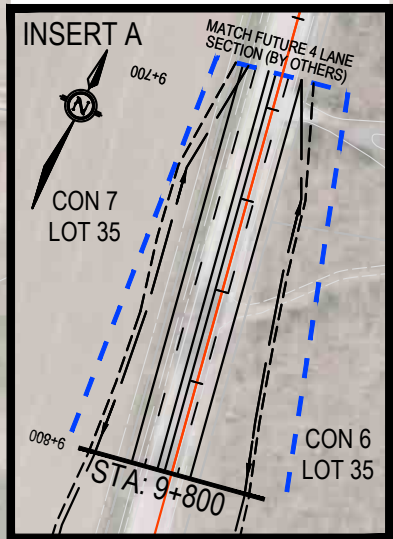
PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

GEOGRAPHIC TWP
OF VAUGHAN



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 518+950 TO STATION 519+700

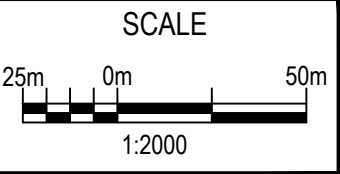


PLATE
E27

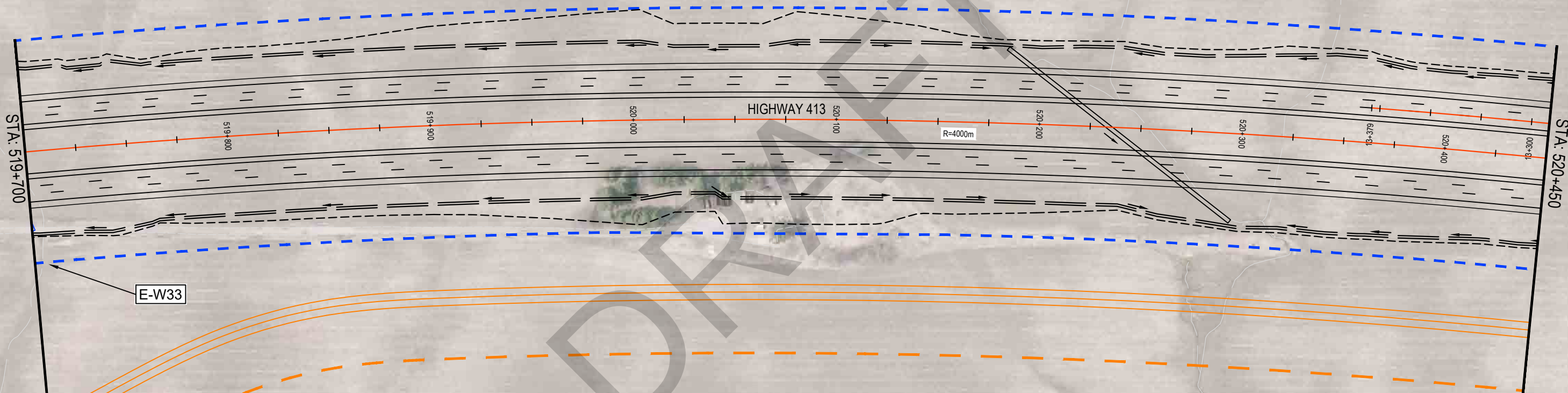
PRELIMINARY



CON 6
LOT 35

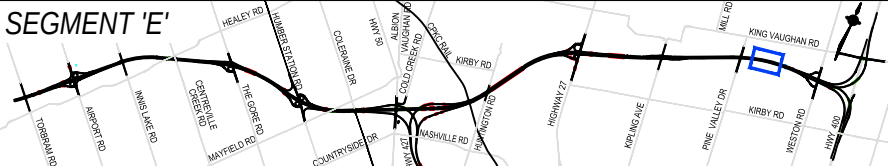
CON 6
LOT 34

GEOGRAPHIC TWP
OF VAUGHAN



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY

CON 6
LOT 35

GEOGRAPHIC TWP
OF VAUGHAN

CON 6
LOT 34

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

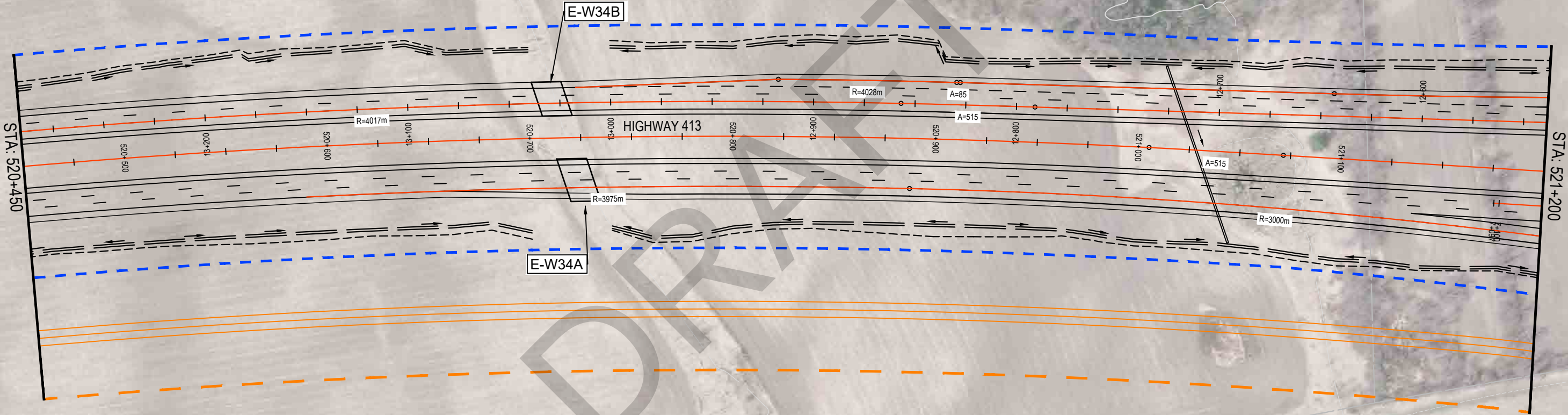
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

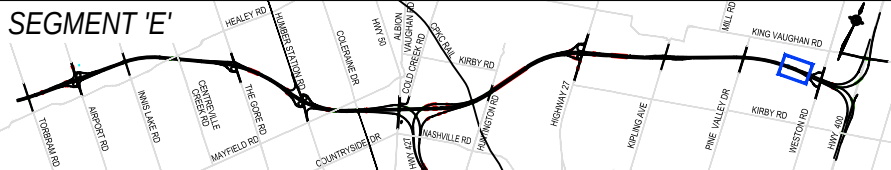
CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



CON 6
LOT 33

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 413
STATION 520+450 TO STATION 521+200

SCALE

25m

0m

50m

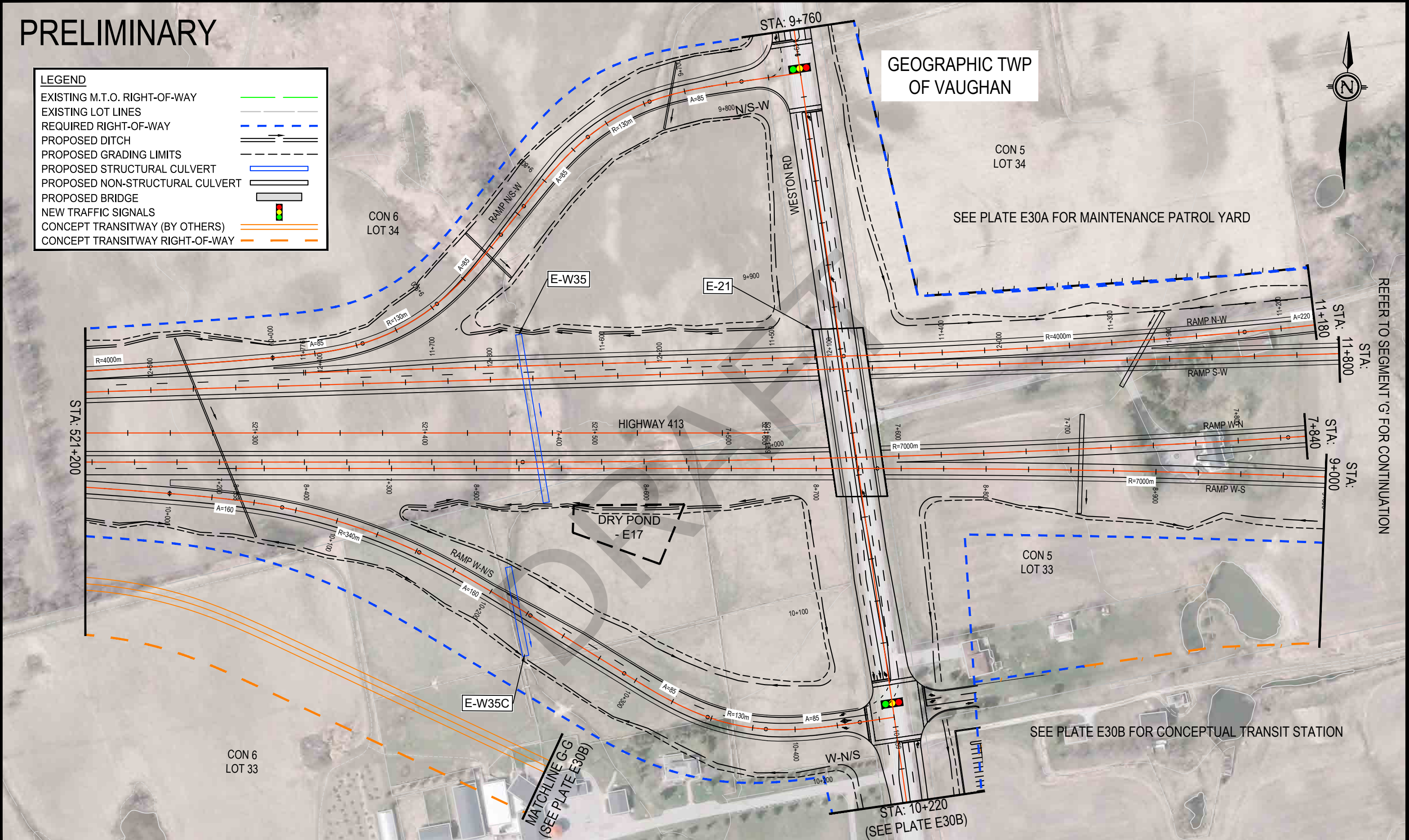
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PLATE
E29

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



GEOGRAPHIC TWP
OF VAUGHAN



REFER TO SEGMENT 'G' FOR CONTINUATION

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN



CON 6
LOT 35

CON 5
LOT 35

CON 6
LOT 34

CON 5
LOT 34

CON 5
LOT 33

MATCH FUTURE 4 LANE
SECTION (BY OTHERS)

WESTON RD

MAINTENANCE
PATROL YARD

STA: 9+760

LEGEND

- EXISTING M.T.O. RIGHT-OF-WAY
- EXISTING LOT LINES
- REQUIRED RIGHT-OF-WAY
- PROPOSED DITCH
- PROPOSED GRADING LIMITS
- PROPOSED STRUCTURAL CULVERT
- PROPOSED NON-STRUCTURAL CULVERT
- PROPOSED BRIDGE
- NEW TRAFFIC SIGNALS
- CONCEPT TRANSITWAY (BY OTHERS)
- CONCEPT TRANSITWAY RIGHT-OF-WAY



HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
WESTON ROAD
STATION 9+580 TO STATION 9+760

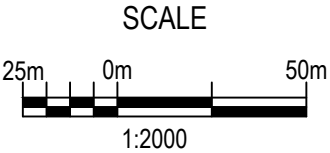
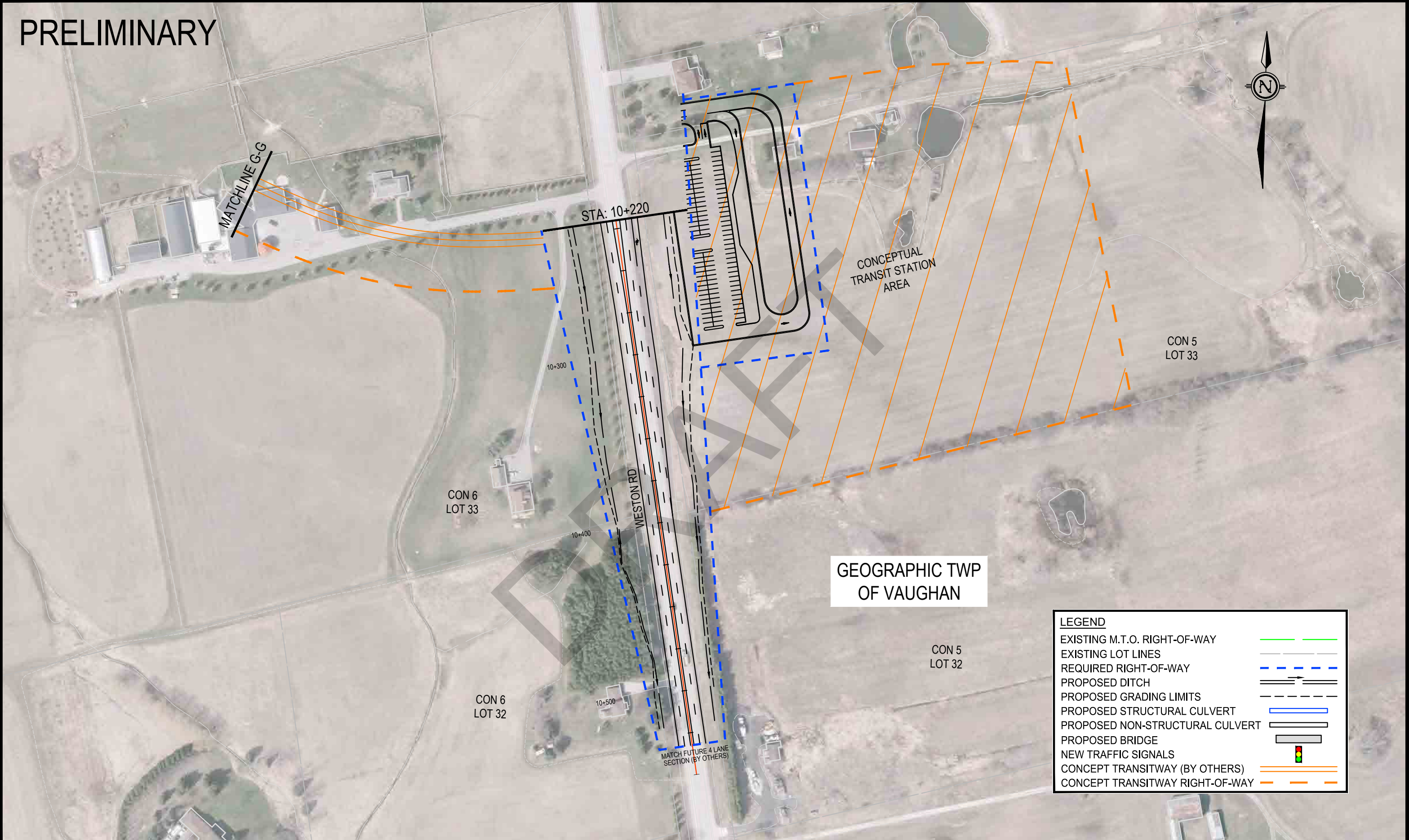


PLATE
E30A

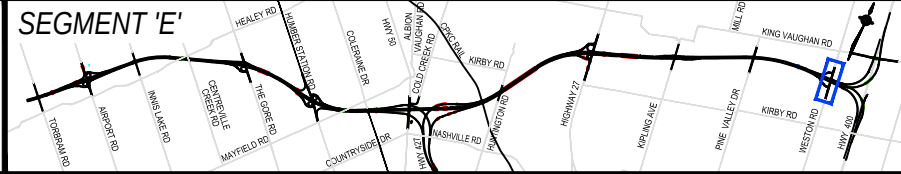
PRELIMINARY



GEOGRAPHIC TWP
OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

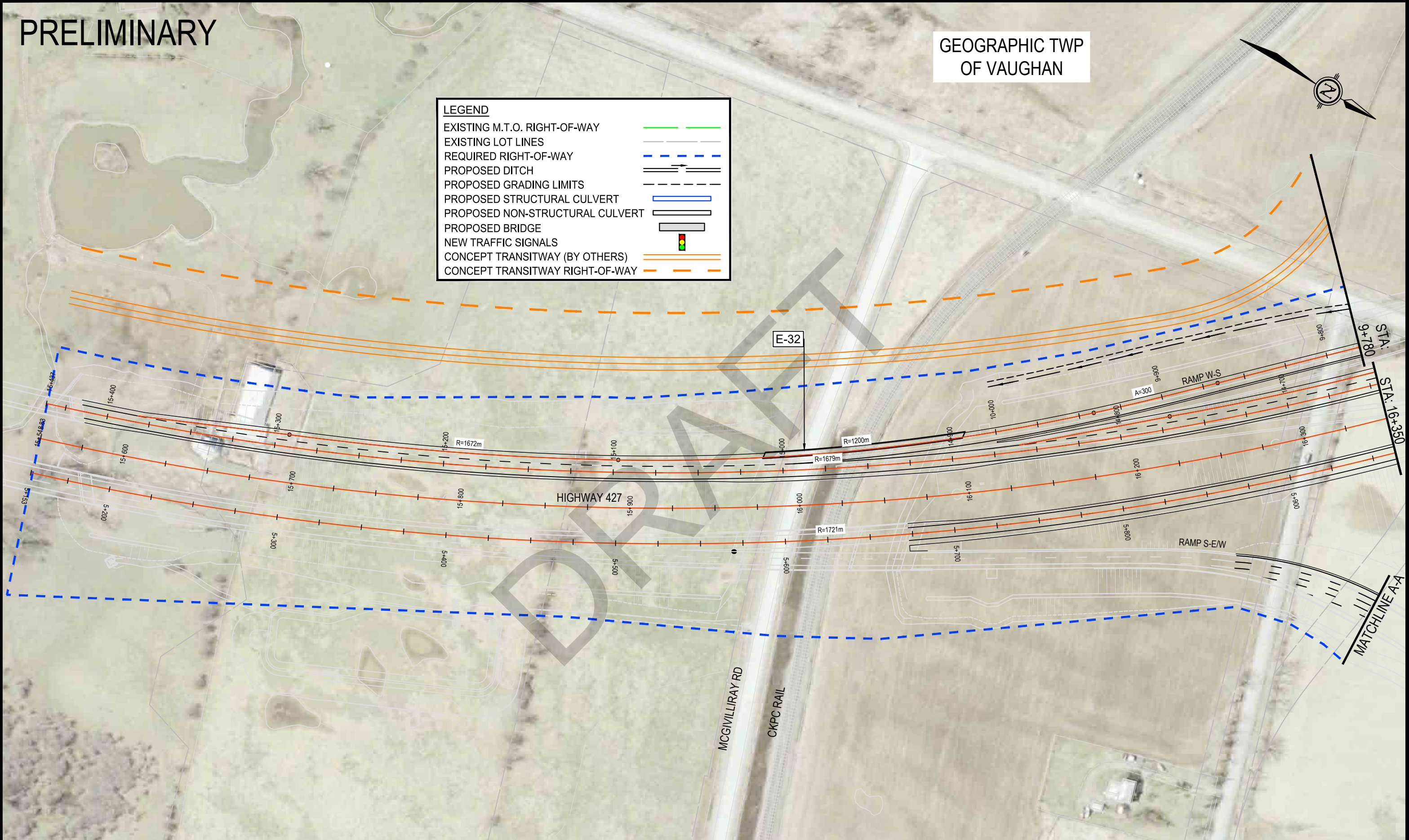


PRELIMINARY

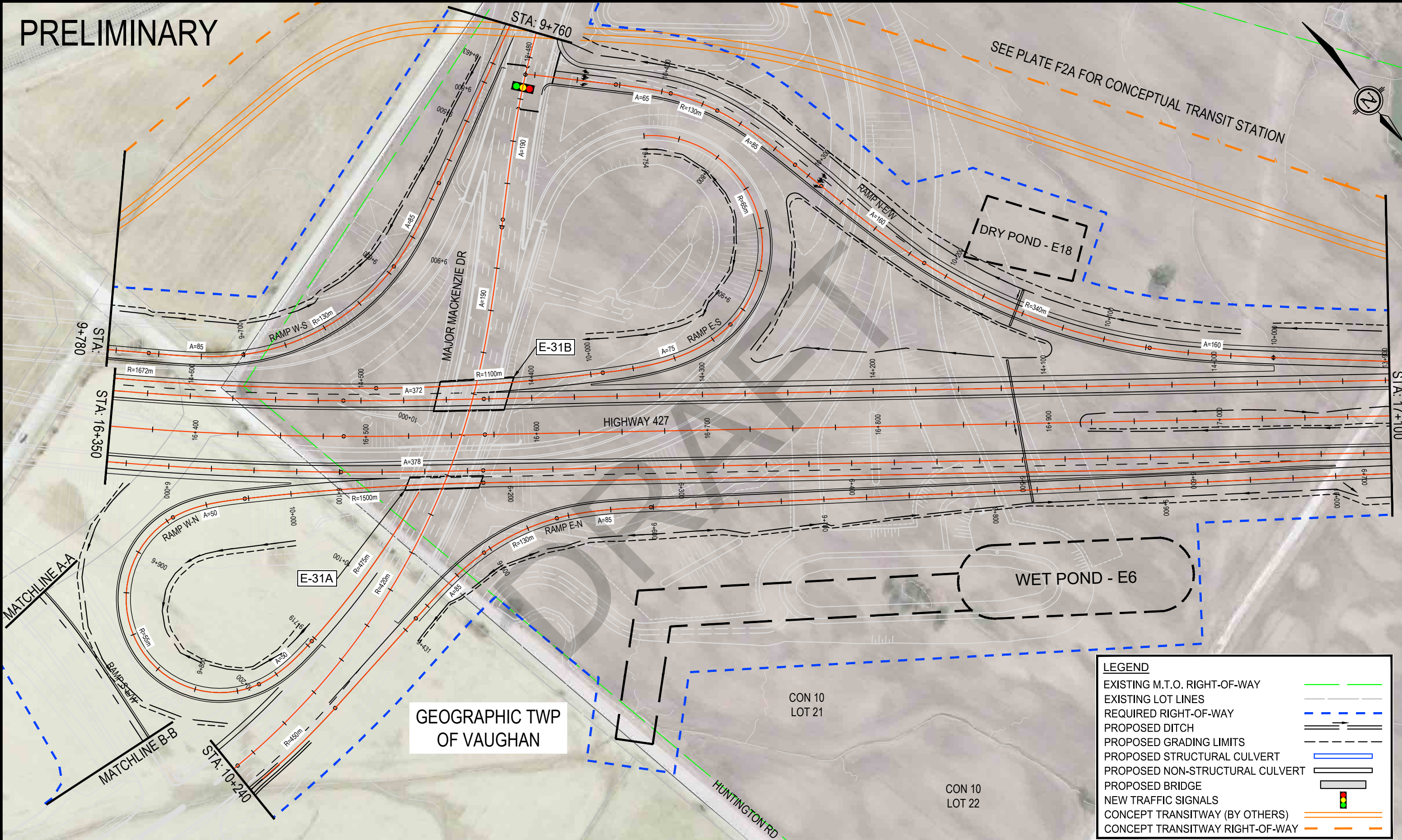
GEOGRAPHIC TWP
OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	



PRELIMINARY



SEE PLATE F2A FOR CONCEPTUAL TRANSIT STATION

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

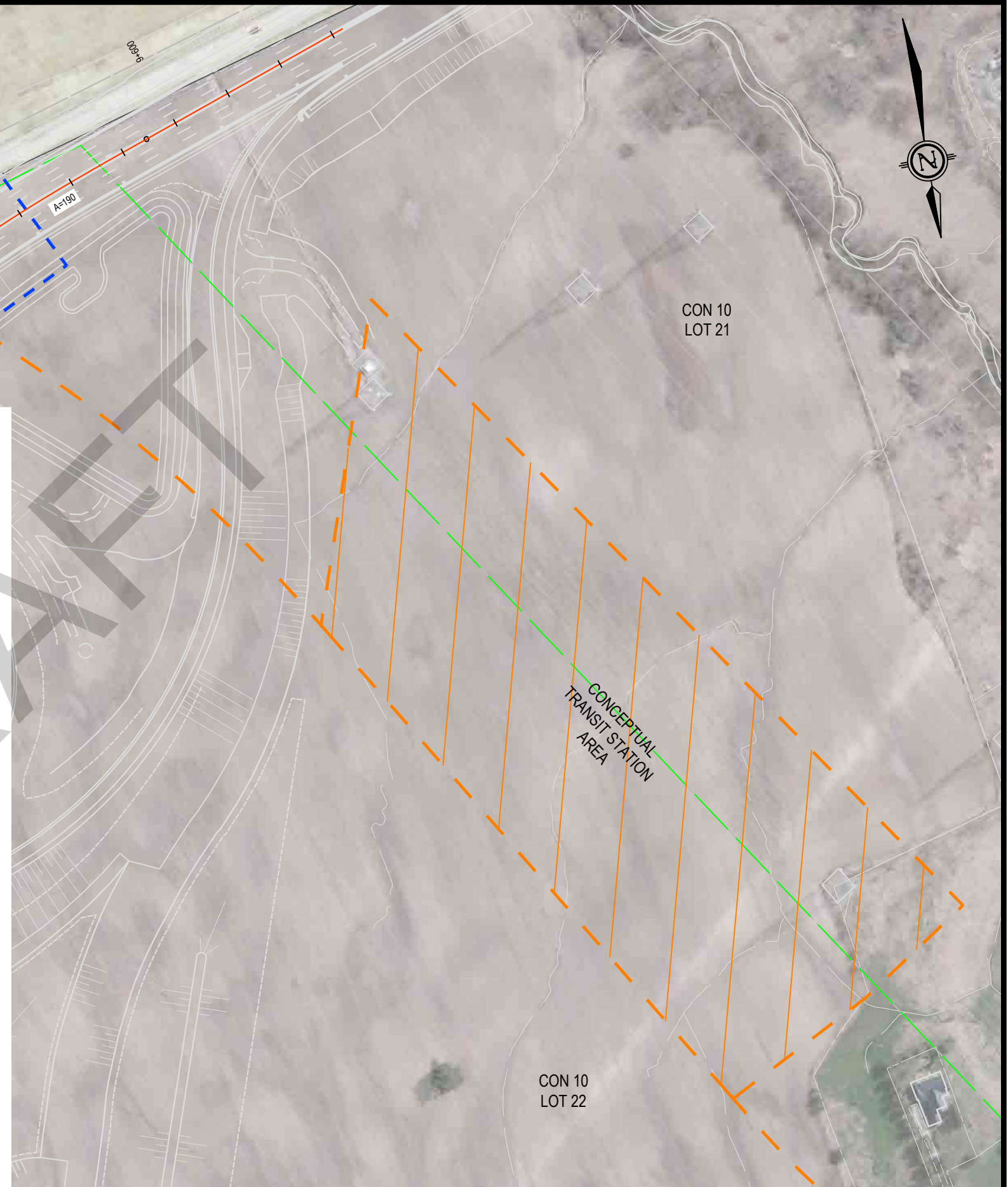
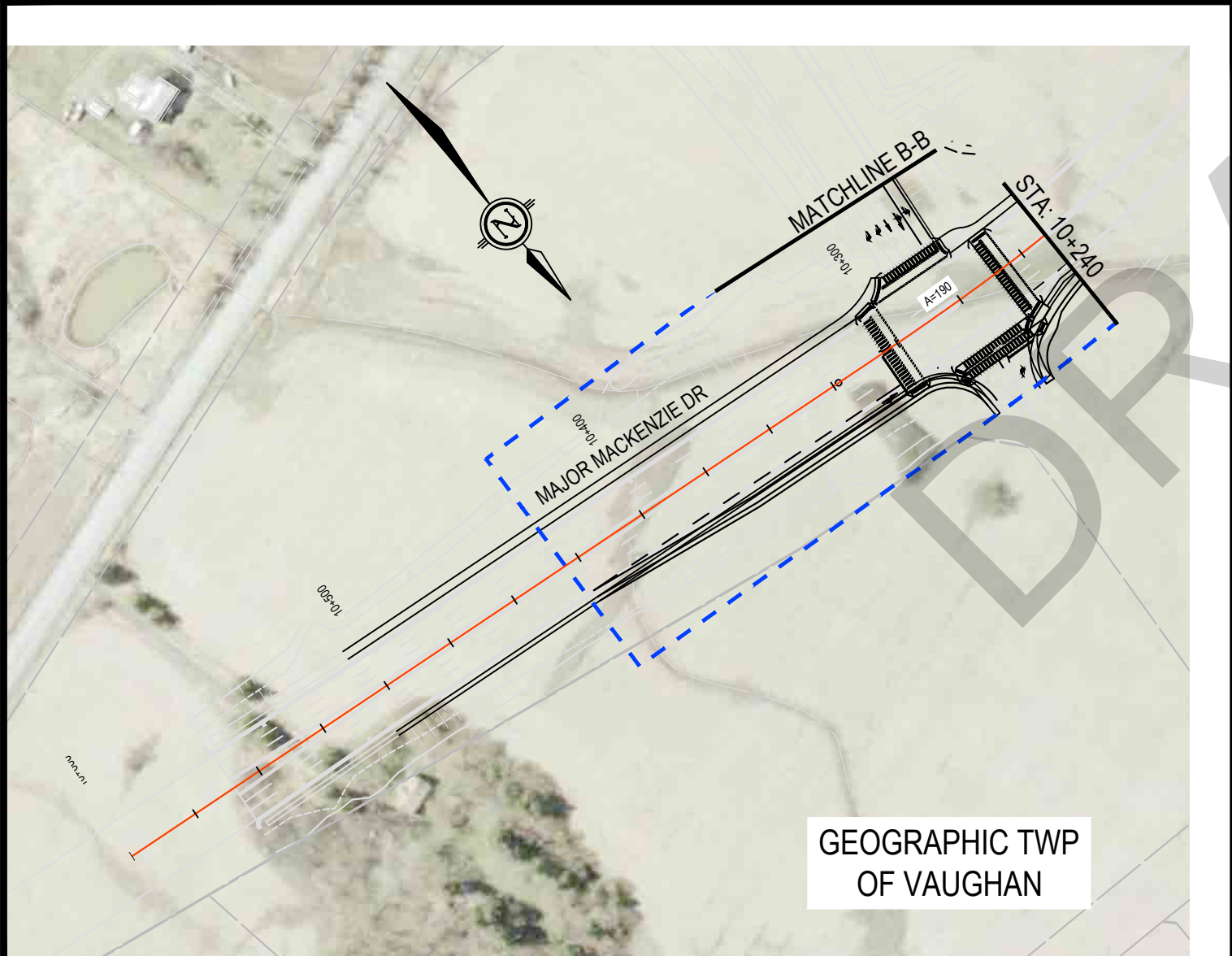
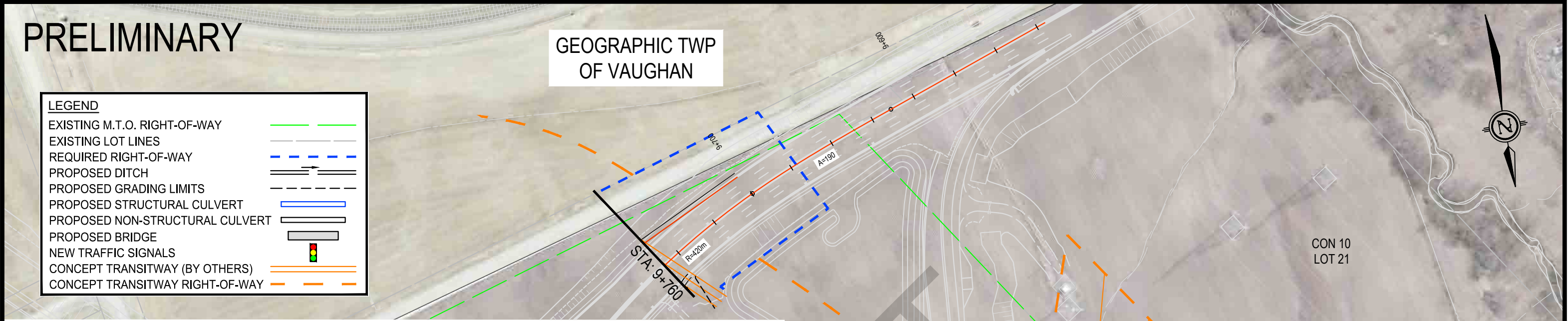
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

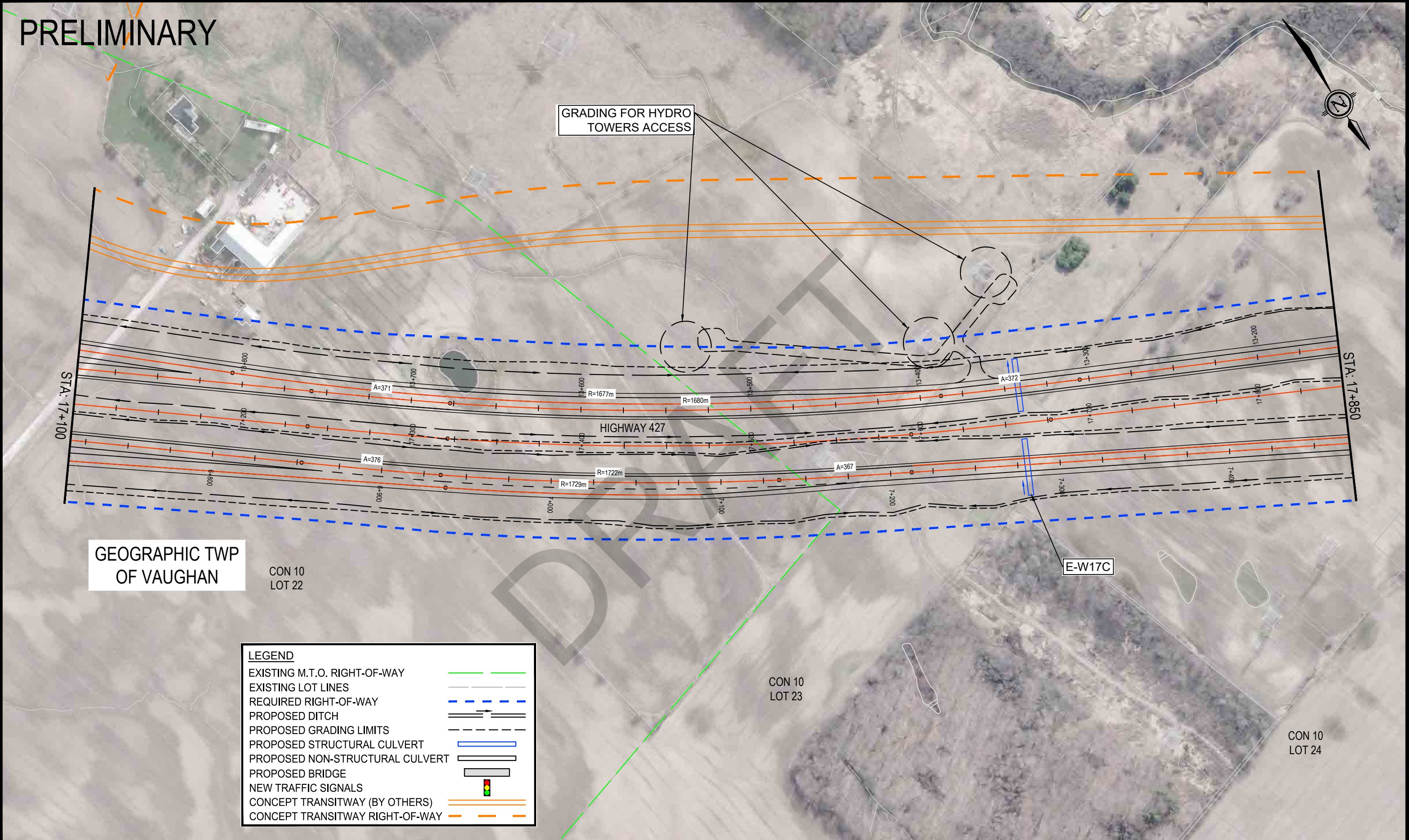
NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



PRELIMINARY



GEOGRAPHIC TWP
OF VAUGHAN

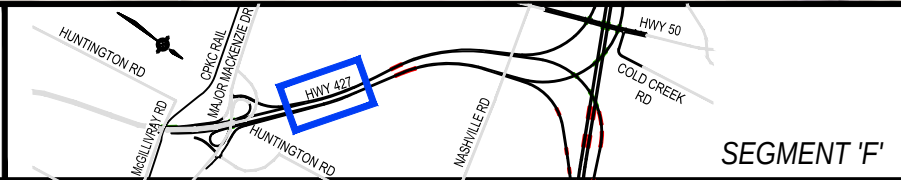
LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	---
EXISTING LOT LINES	---
REQUIRED RIGHT-OF-WAY	---
PROPOSED DITCH	---
PROPOSED GRADING LIMITS	---
PROPOSED STRUCTURAL CULVERT	---
PROPOSED NON-STRUCTURAL CULVERT	---
PROPOSED BRIDGE	---
NEW TRAFFIC SIGNALS	---
CONCEPT TRANSITWAY (BY OTHERS)	---
CONCEPT TRANSITWAY RIGHT-OF-WAY	---





HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 427
STATION 17+100 TO STATION 17+850

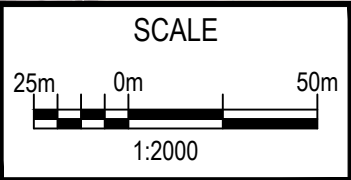
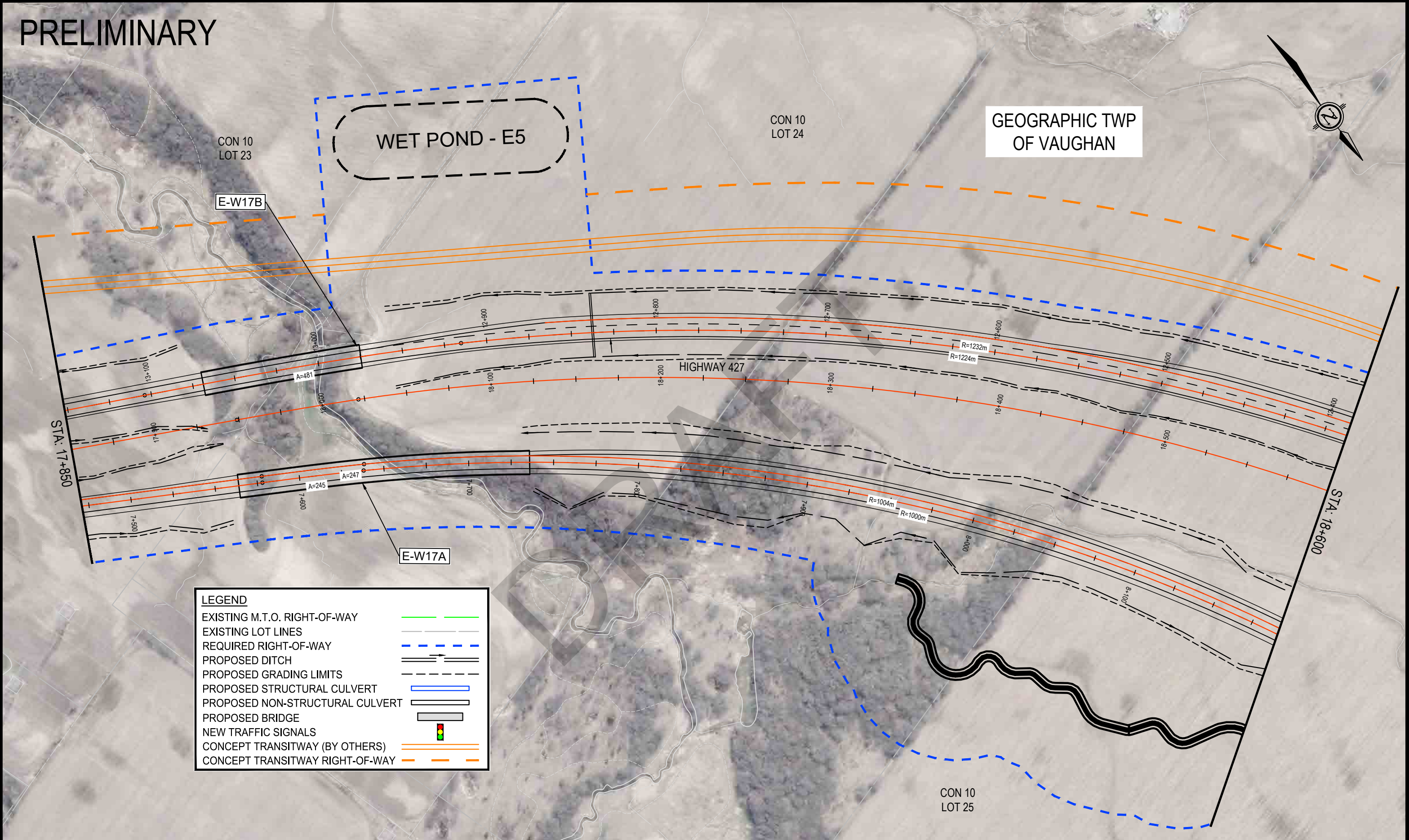


PLATE
F3

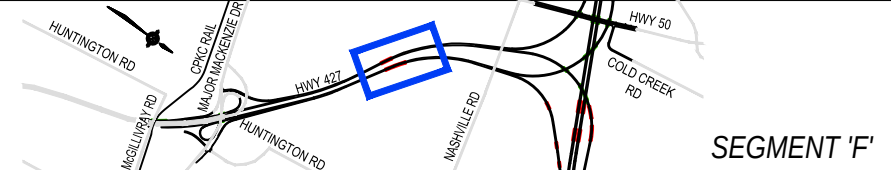
PRELIMINARY



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 427
STATION 17+850 TO STATION 18+600

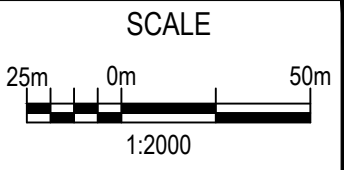


PLATE
F4

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

CON 10
LOT 24

CON 10
LOT 25

CON 10
LOT 26

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

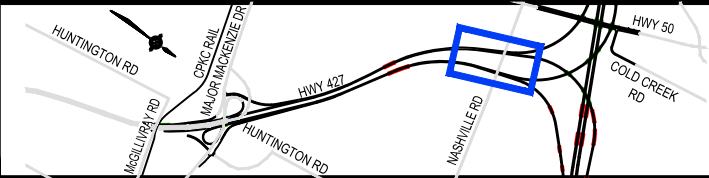
PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'F'

PRELIMINARY DESIGN PLAN
HIGHWAY 427
STATION 18+600 TO STATION 19+060

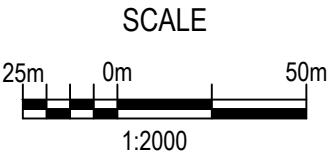
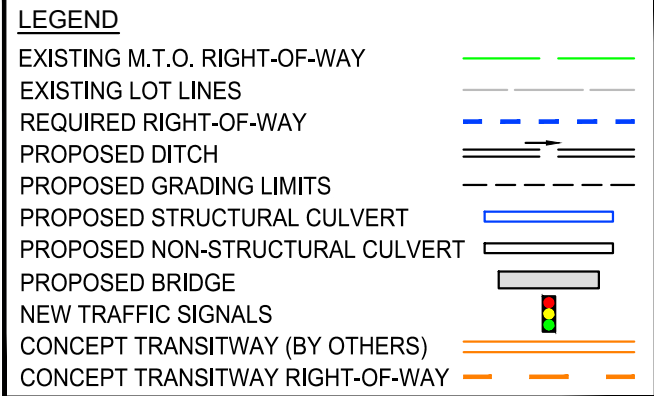


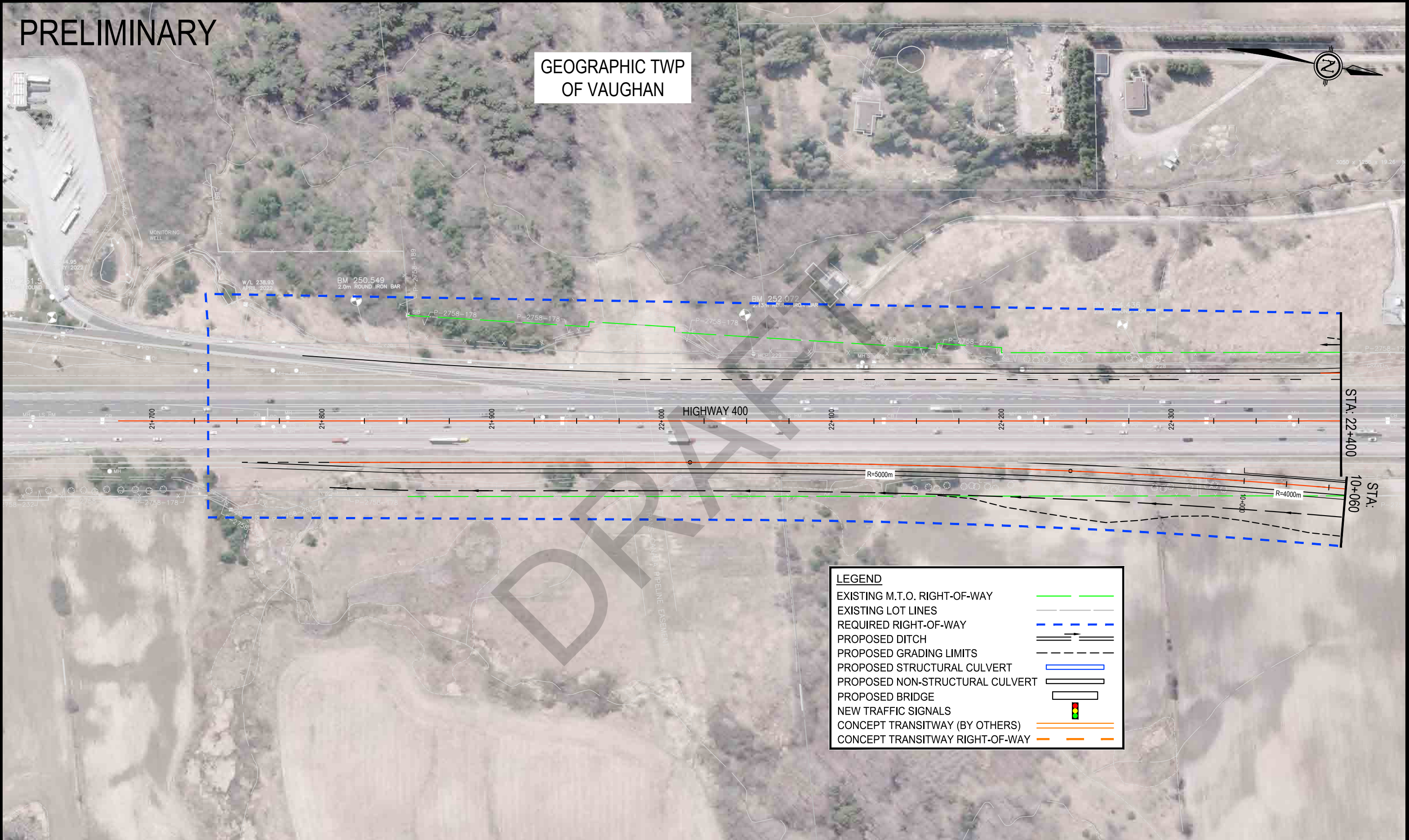
PLATE
F5

REFER TO SEGMENT 'E' FOR CONTINUATION



PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN



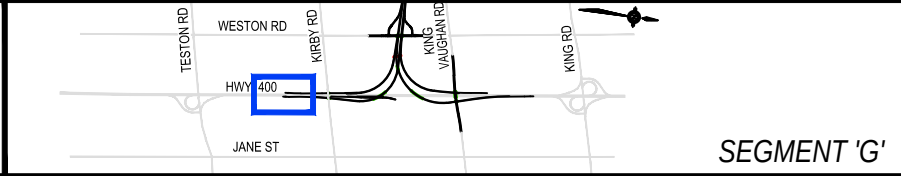
LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	— — — — —
EXISTING LOT LINES	— — — — —
REQUIRED RIGHT-OF-WAY	- - - - -
PROPOSED DITCH	==>==>
PROPOSED GRADING LIMITS	- - - - -
PROPOSED STRUCTURAL CULVERT	▬
PROPOSED NON-STRUCTURAL CULVERT	- - - - -
PROPOSED BRIDGE	▭
NEW TRAFFIC SIGNALS	🚦
CONCEPT TRANSITWAY (BY OTHERS)	— — — — —
CONCEPT TRANSITWAY RIGHT-OF-WAY	- - - - -





HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 400
STATION 21+680 TO STATION 22+400

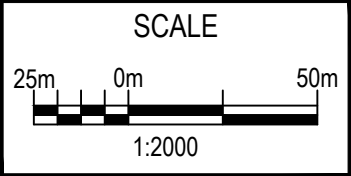
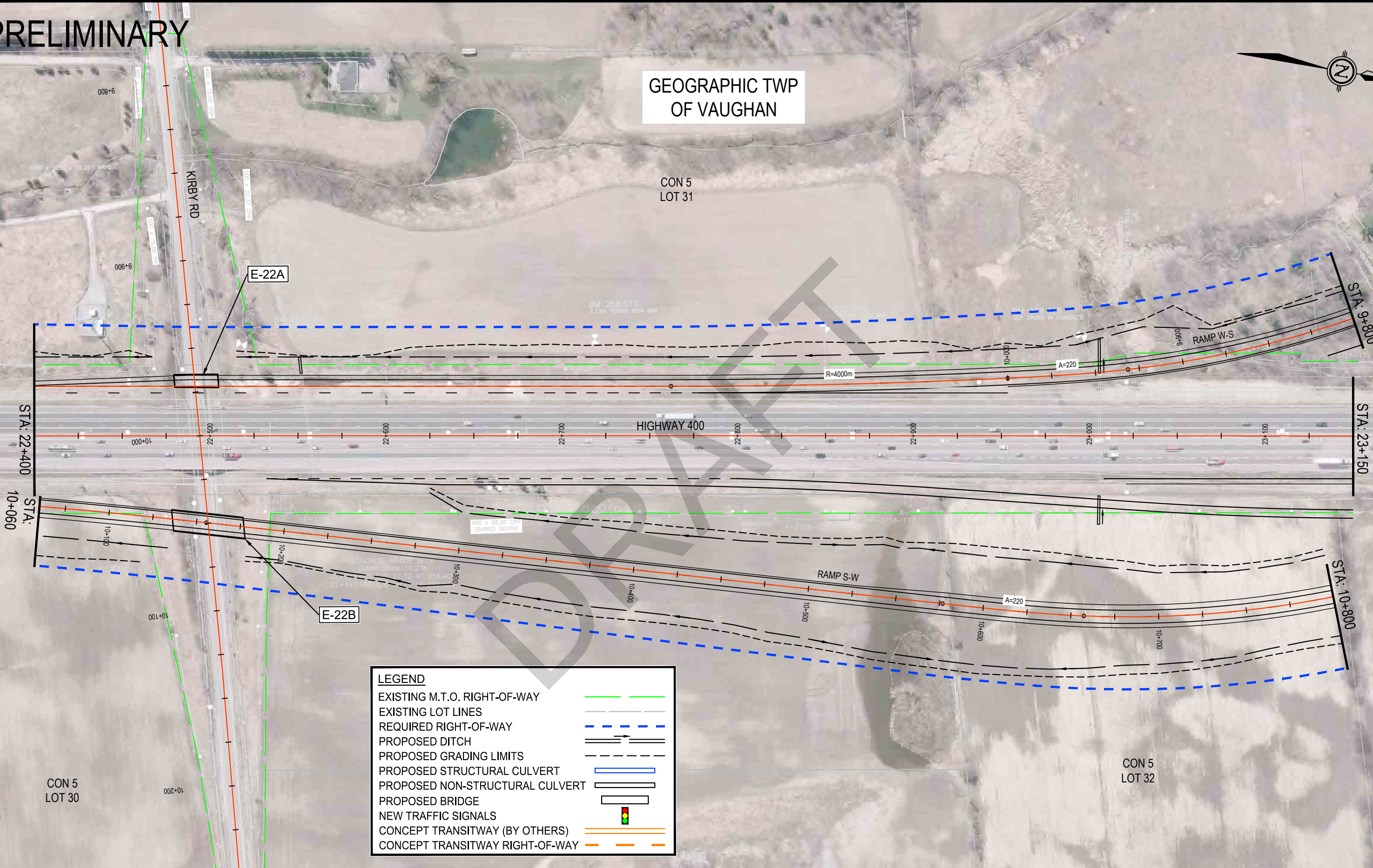


PLATE
G1

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

PRELIMINARY

GEOGRAPHIC TWP
OF VAUGHAN

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

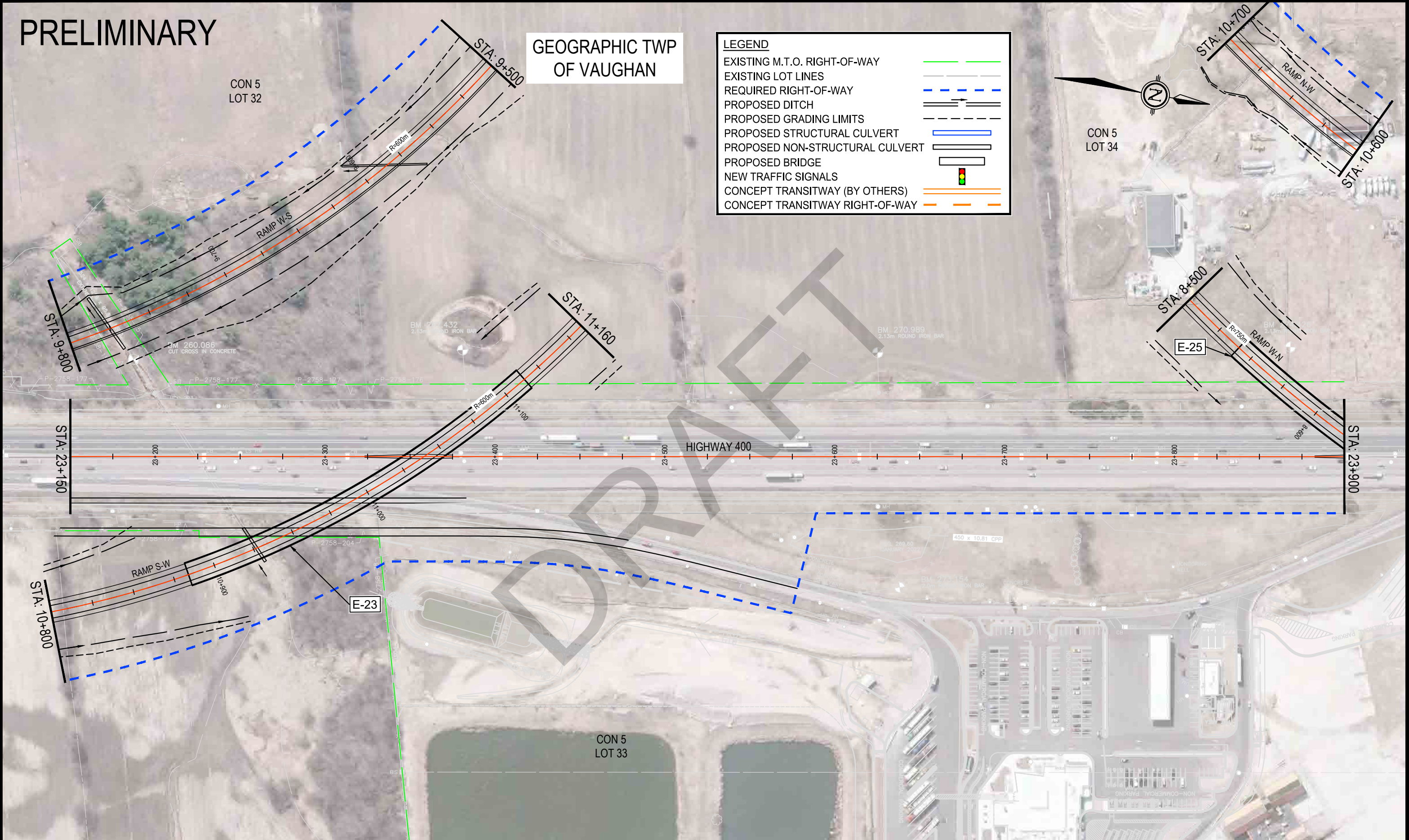
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

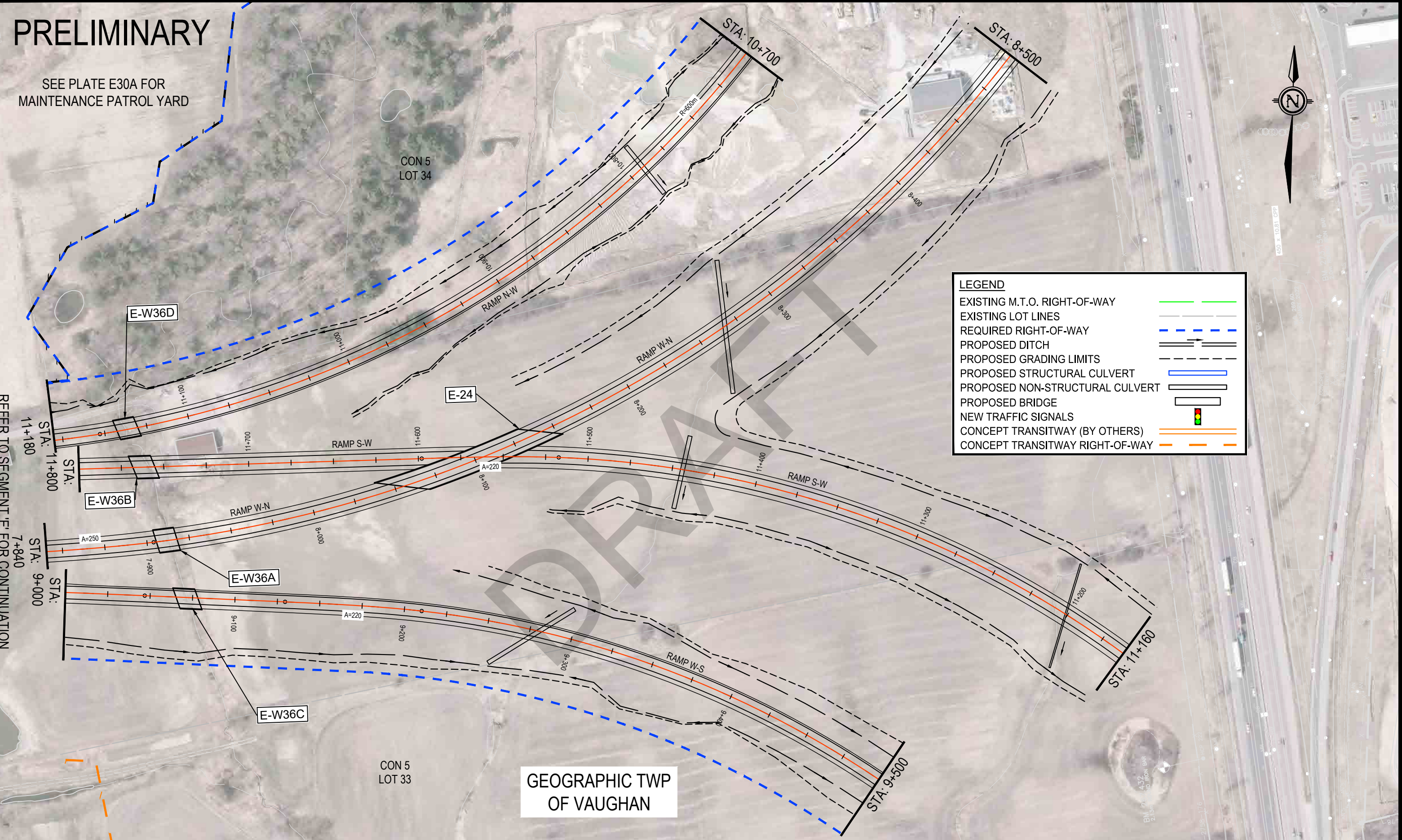
CONCEPT TRANSITWAY RIGHT-OF-WAY



PRELIMINARY

SEE PLATE E30A FOR
MAINTENANCE PATROL YARD

REFER TO SEGMENT 'E' FOR CONTINUATION



LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

GEOGRAPHIC TWP
OF VAUGHAN

PRELIMINARY

CON 5
LOT 34

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

STA: 9+775

KING VAUGHAN RD

CON 5
LOT 1

GEOGRAPHIC TWP
OF KING

STA: 24+650

STA: 9+400

STA: 10+225

GEOGRAPHIC TWP
OF VAUGHAN

CON 5
LOT 35

E-W37

E-28

E-25

E-27

RAMP N-W

RAMP W-N

HIGHWAY 400

STA: 23+900

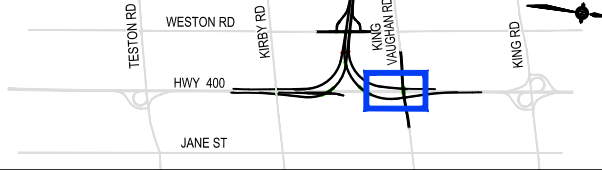
wsp

AECOM

Ontario

Ministry of Transportation

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



SEGMENT 'G'

PRELIMINARY DESIGN PLAN
HIGHWAY 400
STATION 23+900 TO STATION 24+650

SCALE

25m

0m

50m

1:2000

PLATE
G4

PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

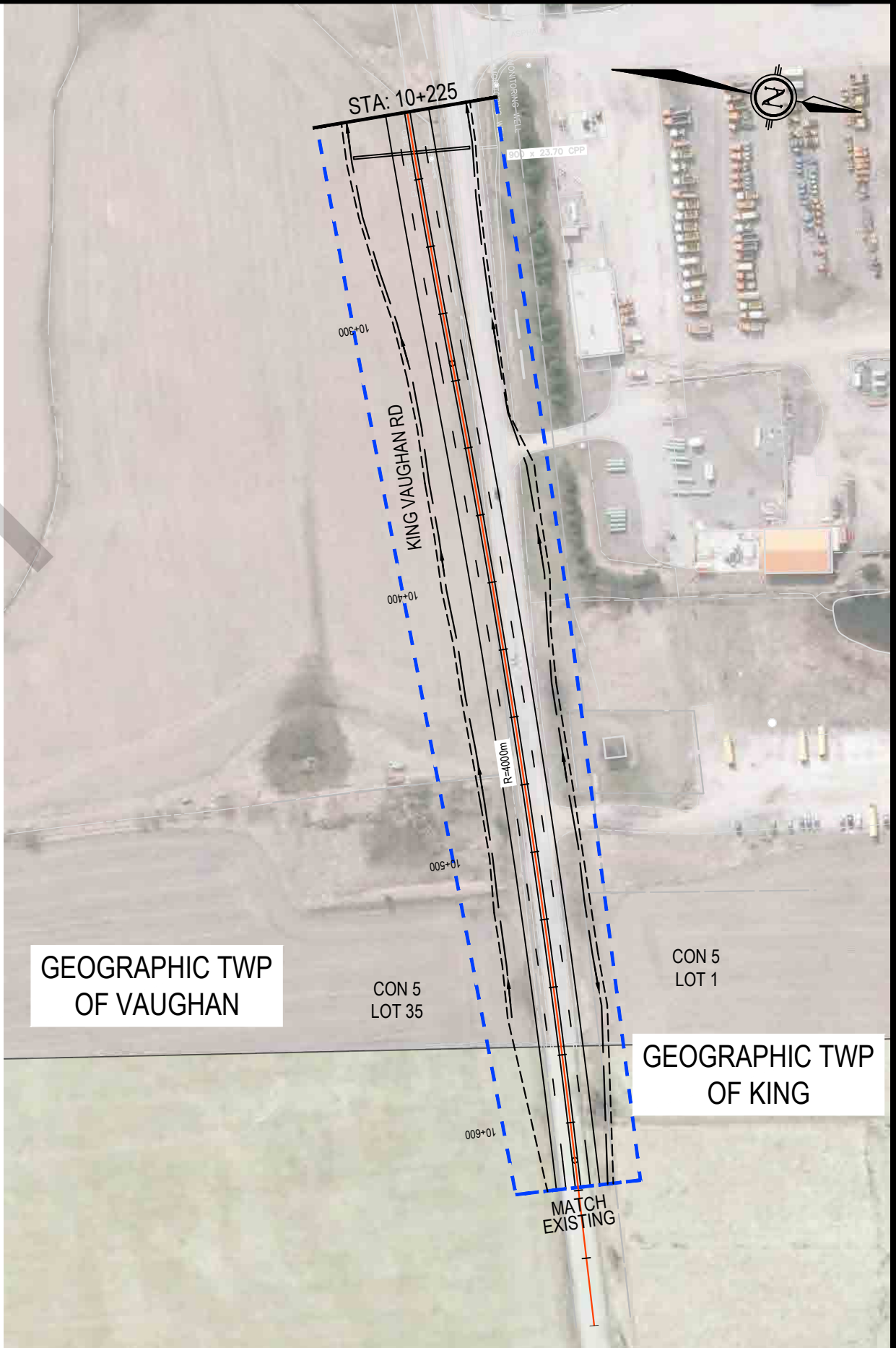
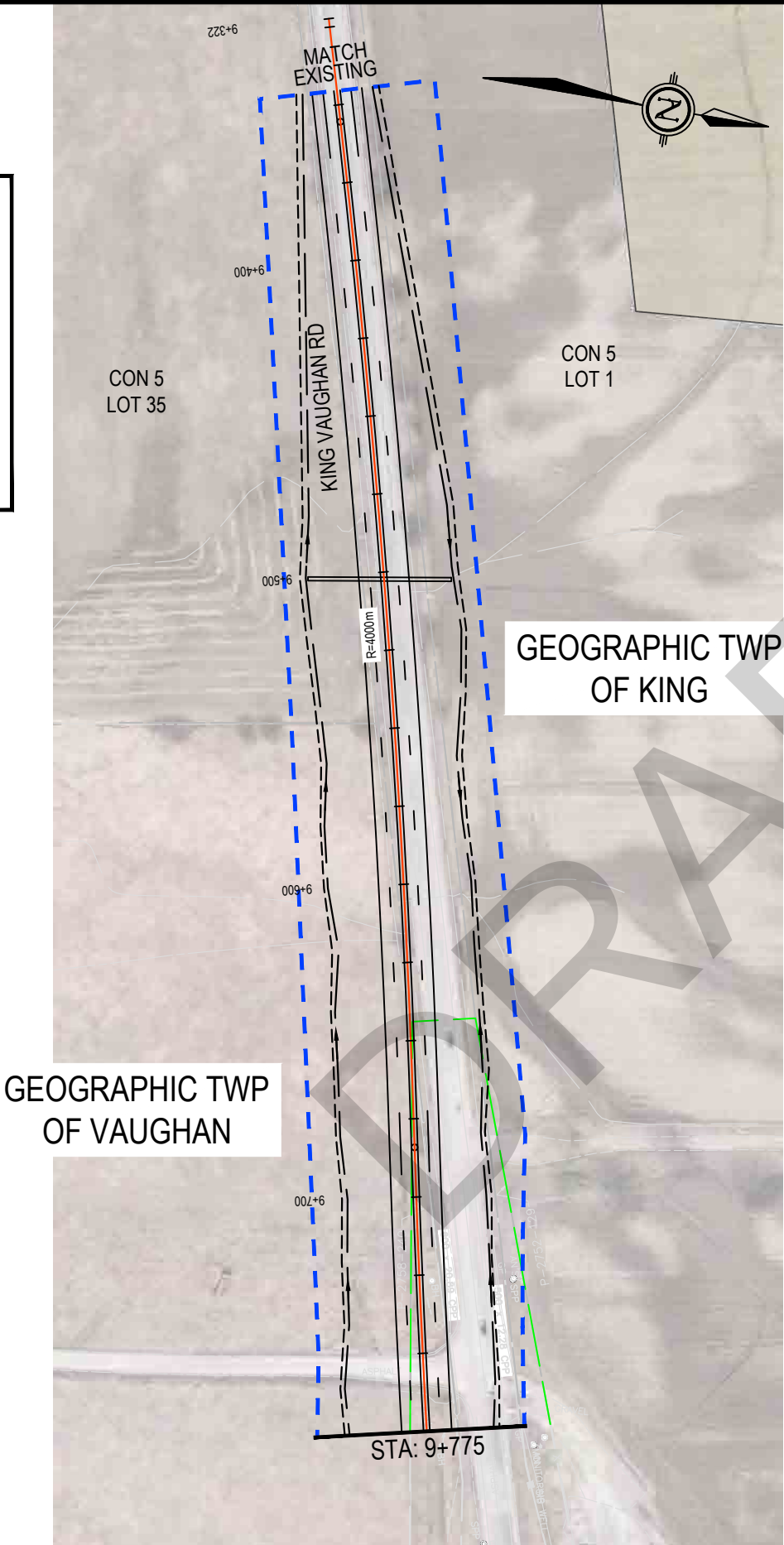
PROPOSED NON-STRUCTURAL CULVERT

PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY



PRELIMINARY

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY

EXISTING LOT LINES

REQUIRED RIGHT-OF-WAY

PROPOSED DITCH

PROPOSED GRADING LIMITS

PROPOSED STRUCTURAL CULVERT

PROPOSED NON-STRUCTURAL CULVERT

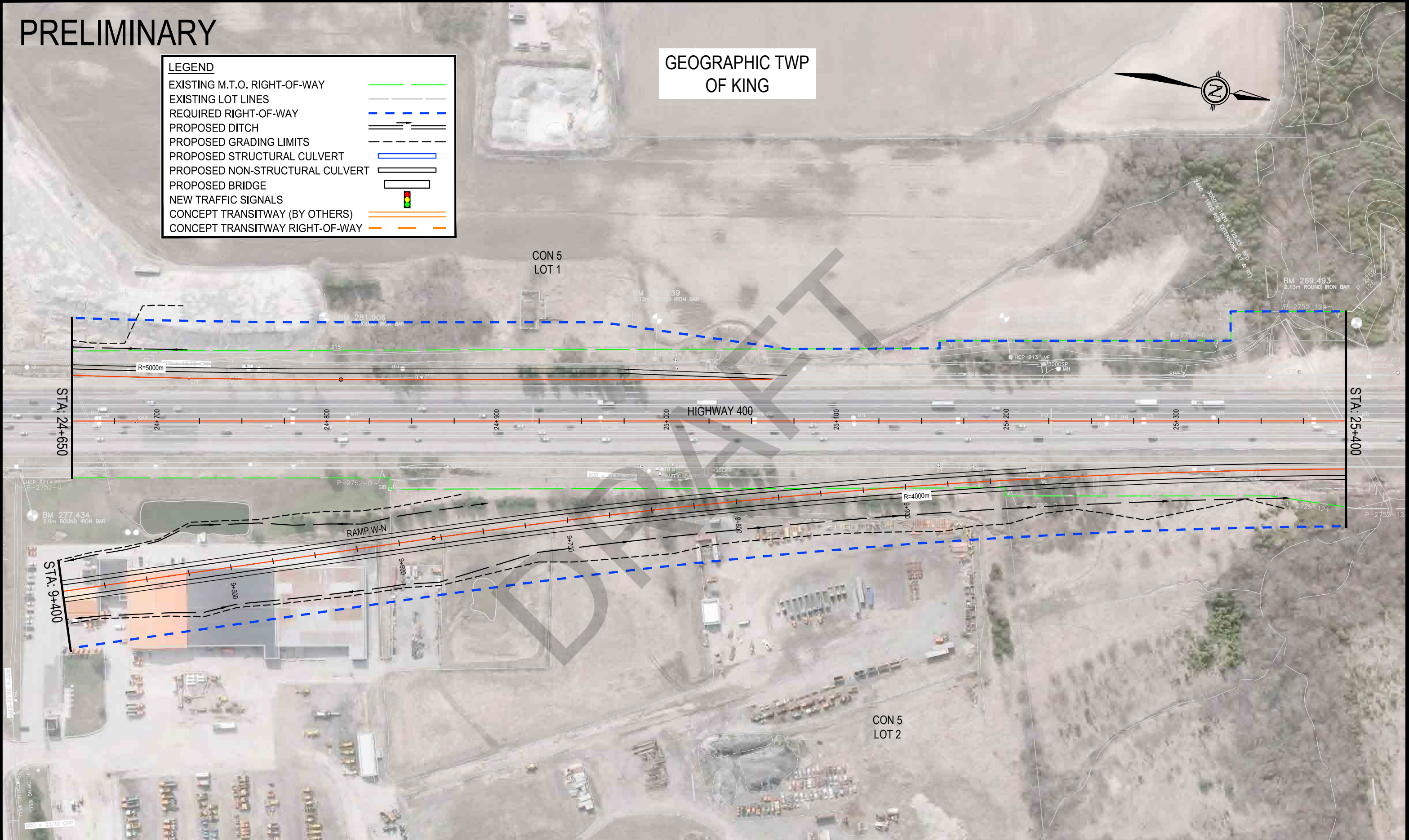
PROPOSED BRIDGE

NEW TRAFFIC SIGNALS

CONCEPT TRANSITWAY (BY OTHERS)

CONCEPT TRANSITWAY RIGHT-OF-WAY

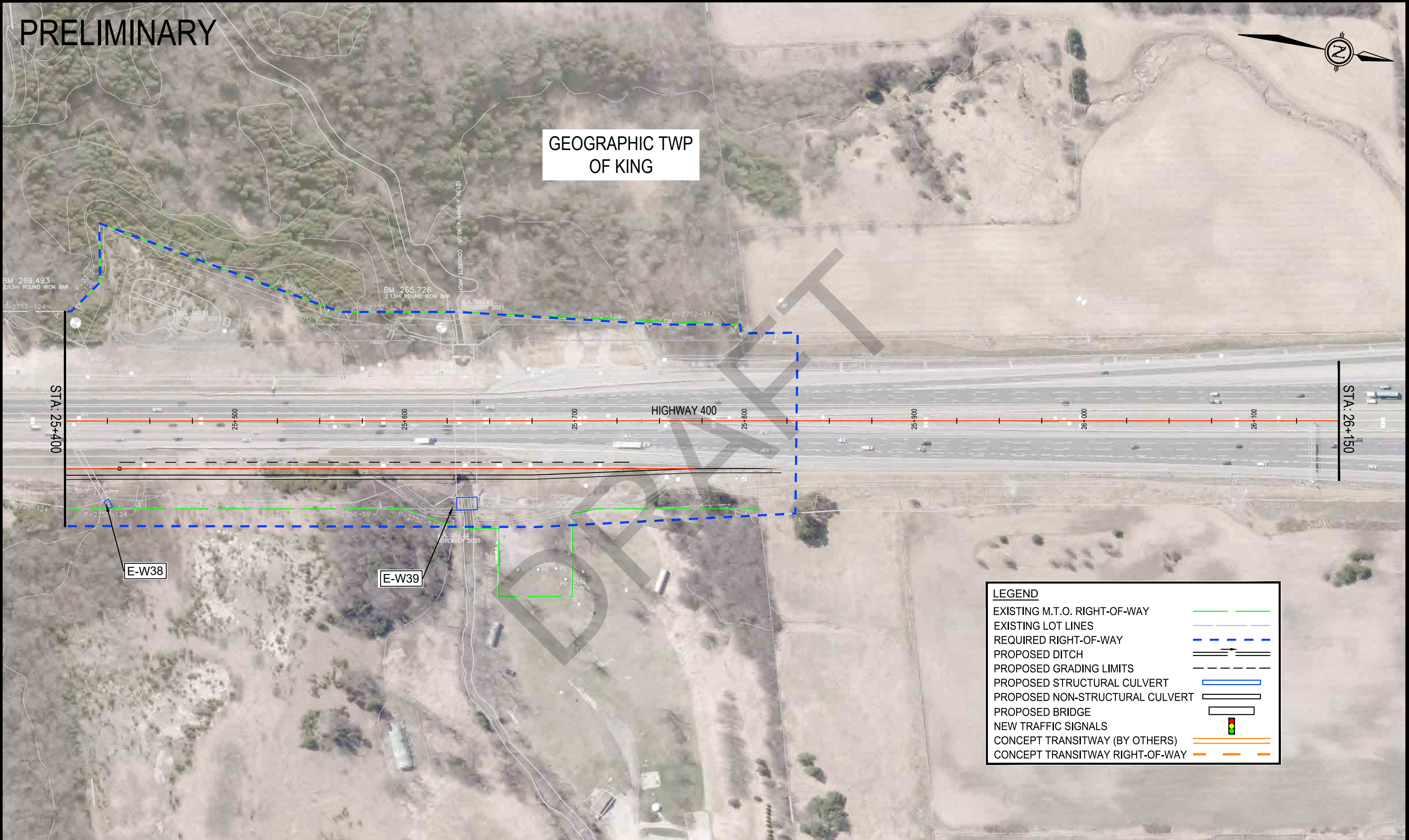
GEOGRAPHIC TWP
OF KING



PRELIMINARY



GEOGRAPHIC TWP
OF KING



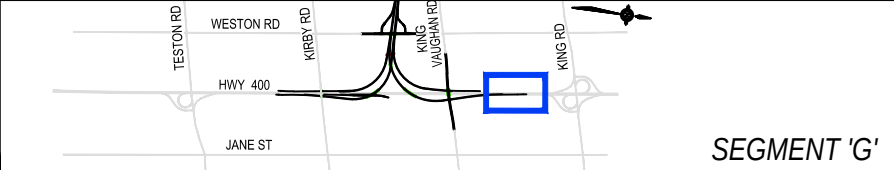
E-W38

E-W39

LEGEND

EXISTING M.T.O. RIGHT-OF-WAY	
EXISTING LOT LINES	
REQUIRED RIGHT-OF-WAY	
PROPOSED DITCH	
PROPOSED GRADING LIMITS	
PROPOSED STRUCTURAL CULVERT	
PROPOSED NON-STRUCTURAL CULVERT	
PROPOSED BRIDGE	
NEW TRAFFIC SIGNALS	
CONCEPT TRANSITWAY (BY OTHERS)	
CONCEPT TRANSITWAY RIGHT-OF-WAY	

HIGHWAY 413
PRELIMINARY DESIGN
G.W.P. 13-20001



PRELIMINARY DESIGN PLAN
HIGHWAY 400
STATION 25+400 TO STATION 26+150

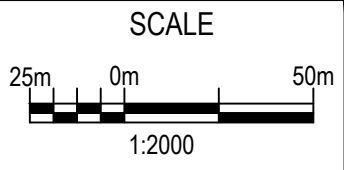


PLATE
G6