MINISTRY OF TRANSPORTATION, ONTARIO PH-D-302 89-10

CONTRACT DRAWINGS

CONTRACT NO. DB 2018-2013

BOOK 1 OF 1

QUEEN ELIZABETH WAY
WELLAND RIVER BRIDGES RECONSTRUCTION & CULVERT REHABILITATIONS
SITE NOs. 34-312/C, 34-313/C, 34-315/C, 34-65-1/2
DESIGN BUILD READY SUBMISSION

CENTRAL REGION

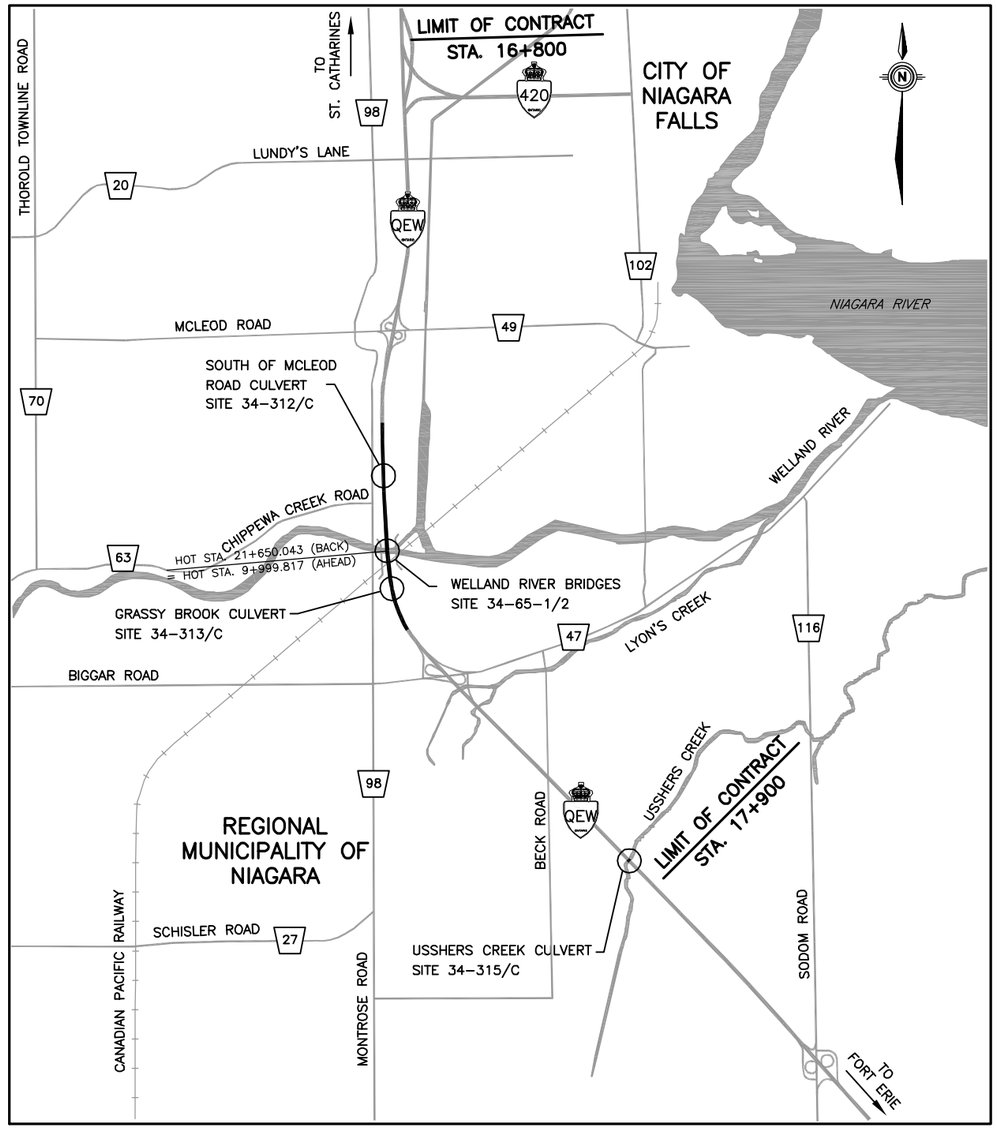
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PLEASE BE ADVISED THAT FINAL DETAIL DESIGN DRAWINGS WILL BE PREPARED BY OTHERS.

FILE LOCATION= I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700G01.DWG REVISED BY= G. DEAN
DRAWN BY: M.D. MODIFIED: 18/06/26 15:50:05 Revised

Ministry of Transportation

Ontario



Key Plan

1km 0 2km

GWP No 2430-15-00 Contract No DB 2018-2013

Work of GRADING, GRANULAR BASE, DRAINAGE, HOT MIX PAVING, ELECTRICAL AND STRUCTURAL REPLACEMENT/REHABILITATION

Hwy No QEW Region CENTRAL

Location FROM 0.1Km NORTH OF HIGHWAY 420 TO 4.2Km SOUTH OF BECK ROAD.

Length 12.8 km.

Reference Plans N/A

Ministry of Transportation

Ontario

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION-S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700G02.DWG MODIFIED: 18/10/19 REVISED BY-B.J.M. 10:01:18 Revised
DRAWN BY: R.MANINANG

QEW

I N D E X

W.P. 2430-15-00
CONT. NO. DB 2018-2013

SHEET No	DESCRIPTION
	BOOK 1 OF 1
	TITLE SHEET
	COVER SHEET
	INDEX
1-4	TYPICAL STAGING SECTIONS
5-82	STAGING DRAWINGS
83-91	REMOVALS
92-100	NEW CONSTRUCTION
101-116	PROFILES
117-119	TYPICAL SECTIONS
120-130	PAVEMENT MARKINGS AND SIGNING
131-135	ELECTRICAL DRAWINGS
136-137	ELECTRICAL RWIS DRAWINGS
138-142	STRUCTURAL DRAWINGS

SHEET No	DESCRIPTION

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DRAWN BY: D. CAMPBELL MODIFIED: 18/10/24 14:51:19 Revised

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

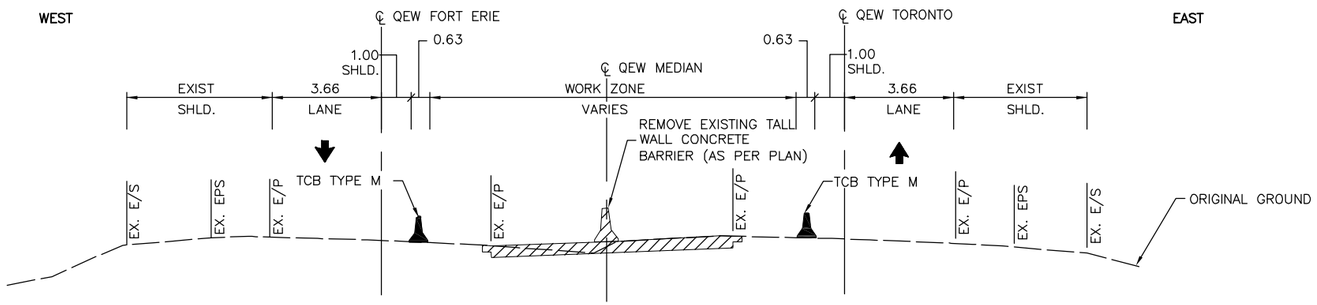
STAGING TYPICALS

SHEET 1

WSP

LEGEND
- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TCB TEMPORARY CONCRETE BARRIER

PRE-STAGE 1A	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON EXISTING. REDUCE TO SINGLE LANE • TRAFFIC ON TORONTO AND FORT ERIE BOUND OUTSIDE LANES	• MEDIAN SHOULDER STRENGTHENING/RECONSTRUCTION/PROFILE MILLING • RUMBLE STRIP REMOVAL • CONSTRUCT TEMPORARY MEDIAN CROSSOVERS



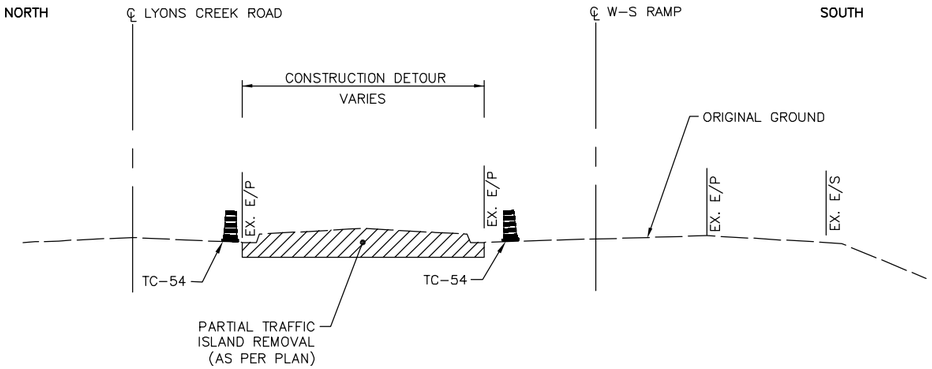
QEW-PRE-STAGE 1A

N.T.S.

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH OTM BOOK 7.
2. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH STAGING PLANS SHOWN ELSEWHERE IN THE CONTRACT.
3. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH DESIGN TEMPLATES AND OPSD 200 SERIES DRAWINGS.
4. DRAINAGE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
5. ACCESS TO SIDEROADS AND COMMERCIAL/PRIVATE ENTRANCES TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

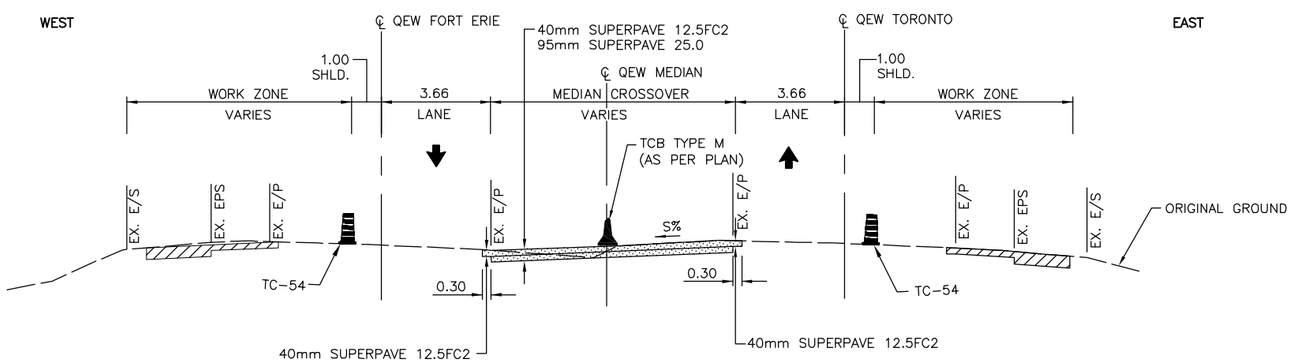
CROSSFALL, %												
Paved driving lane and partially paved shoulder	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
Shoulder	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6



LYONS CREEK ROAD/W-S RAMP PRE-STAGE 1B

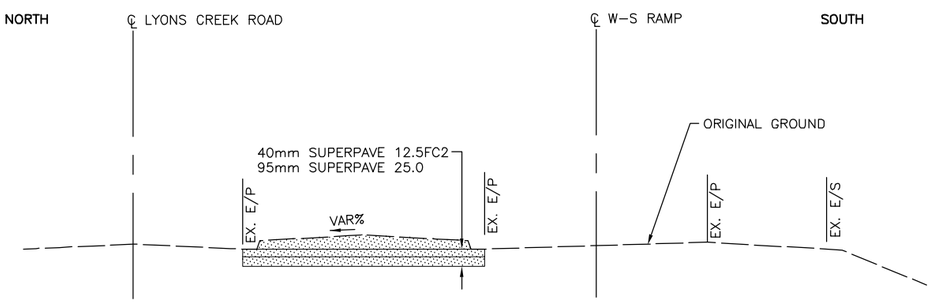
N.T.S.

PRE-STAGE 1B	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON EXISTING. REDUCE TO SINGLE LANE • TRAFFIC ON TORONTO AND FORT ERIE BOUND MEDIAN LANES	• OUTSIDE SHOULDER TEMPORARY EXTENSION • RUMBLE STRIP REMOVAL • CONSTRUCT SOUTH OF MCLEOD ROAD CULVERT TEMPORARY ACCESS • CONSTRUCT LYONS CREEK ROAD/W-S RAMP TEMPORARY CONSTRUCTION DETOUR



QEW-PRE-STAGE 1B

N.T.S.



LYONS CREEK ROAD/W-S RAMP STAGE 1/STAGE 1-WINTER SHUTDOWN

N.T.S.

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DRAWING NAME: H17M-01700ST01.DWG
DRAWN BY: MJDICKS
MODIFIED: 18/10/19 10:04:4 Revised
REVISED BY-B.J.M.

STAGE 1	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON EXISTING • DETOUR TRAFFIC TO TORONTO BOUND LANES. REDUCE TO SINGLE LANE	• FORT ERIE BOUND BRIDGE DEMOLITION AND CONSTRUCTION • GRADE RAISE FORT ERIE BOUND LANES • PLACE CONCRETE CURB AND GUTTER AND CONCRETE GUTTER OUTLETS. PLACE SBGR AND SBEATS • PAVE BRIDGE DECK AND GRADE RAISE LIMITS TO BASE COURSE • REHABILITATE SOUTH OF MCLEOD ROAD, GRASSY BROOK AND USSHERS CREEK CULVERTS • REMOVE SOUTH OF MCLEOD ROAD CULVERT TEMPORARY CROSSING AND REGRADE

STAGE 1–WINTER SHUTDOWN	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON TORONTO BOUND LANES. SINGLE LANE PER DIRECTION OF TRAVEL	• REMOVE TC–54s AND REPLACE PAVEMENT MARKINGS • FORT ERIE BOUND BRIDGE CONSTRUCTION • REHABILITATE SOUTH OF MCLEOD ROAD AND GRASSY BROOK CULVERTS

METRIC

LEGEND

UNDER CONSTRUCTION

COMPLETED CONSTRUCTION

TCB TEMPORARY CONCRETE BARRIER

PLATE No

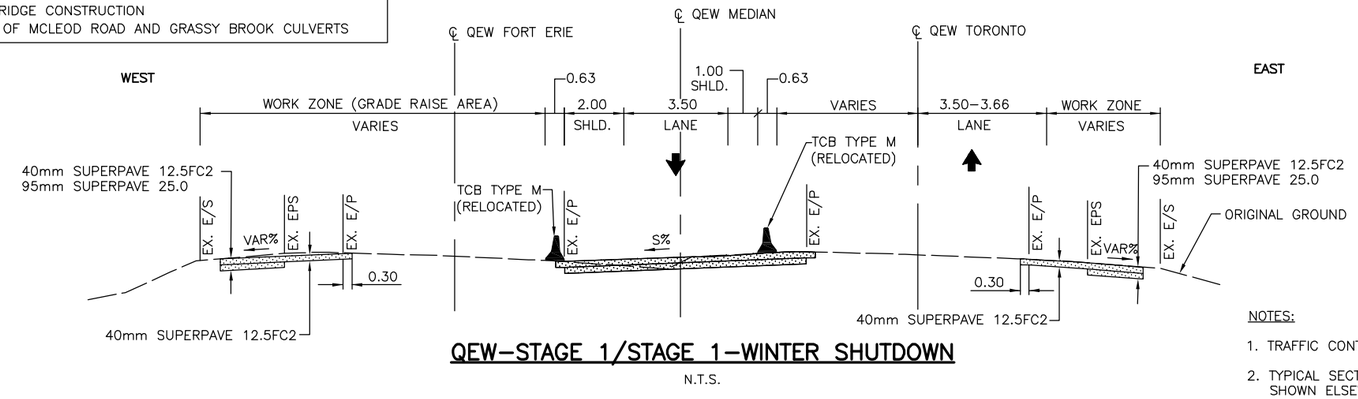
CONT DB 2018–2013

WP 2430–15–00

STAGING TYPICALS

SHEET 2

wsp



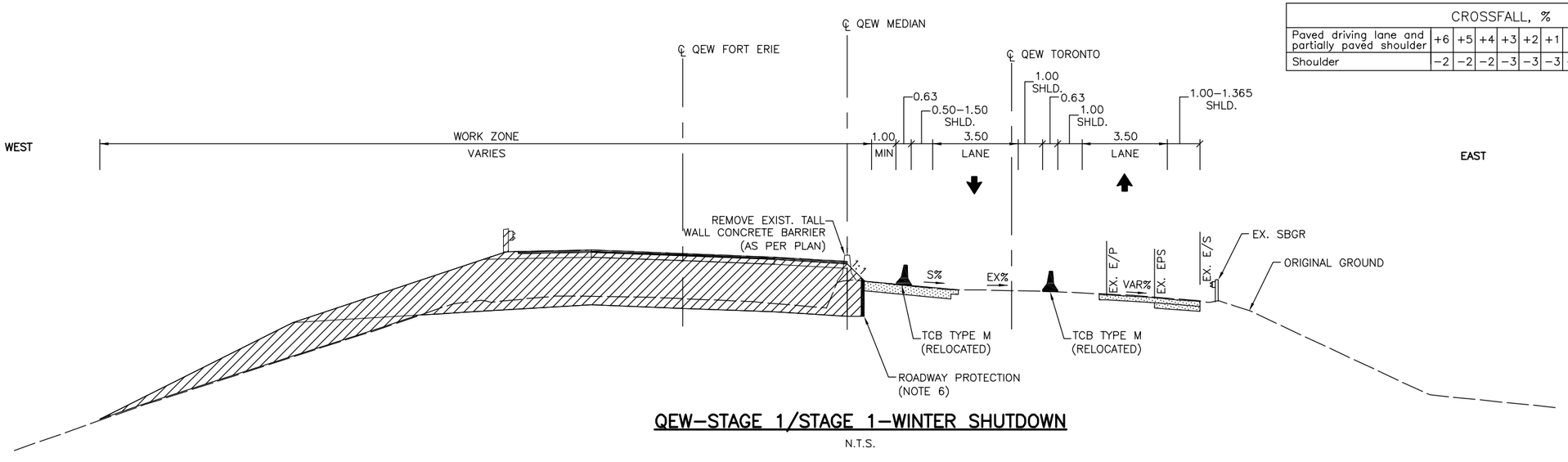
QEW–STAGE 1/STAGE 1–WINTER SHUTDOWN

N.T.S.

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH OTM BOOK 7.
2. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH STAGING PLANS SHOWN ELSEWHERE IN THE CONTRACT.
3. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH DESIGN TEMPLATES AND OPSD 200 SERIES DRAWINGS.
4. DRAINAGE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
5. ACCESS TO SIDEROADS AND COMMERCIAL/PRIVATE ENTRANCES TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
6. ROADWAY PROTECTION AS REQUIRED.

CROSSFALL, %												
Paved driving lane and partially paved shoulder	+6	+5	+4	+3	+2	+1	0	–1	–2	–3	–4	–5	–6
Shoulder	–2	–2	–2	–3	–3	–3	–4	–5	–6	–6	–6	–6	–6



QEW–STAGE 1/STAGE 1–WINTER SHUTDOWN

N.T.S.

MINISTRY OF TRANSPORTATION, ONTARIO PR–D–707 88–05

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DRAWING NAME: H17M–01700ST02.DWG
DRAWN BY: M.DICKS
MODIFIED: 18/10/22 09:39:5 Revised
REVISED BY–B.J.M.

STAGE 2	
TRAFFIC	CONSTRUCTION
• DETOUR TRAFFIC TO FORT ERIE BOUND LANES. REDUCE TO SINGLE LANE	• TORONTO BOUND BRIDGE DEMOLITION AND CONSTRUCTION • GRADE RAISE TORONTO BOUND LANES. CONSTRUCT TALL WALL • PLACE CONCRETE CURB AND GUTTER AND CONCRETE GUTTER OUTLETS. PLACE SBGR AND SBEATS • PAVE BRIDGE DECK AND GRADE RAISE LIMITS TO BASE COURSE • REHABILITATE SOUTH OF MCLEOD ROAD, GRASSY BROOK AND USSHERS CREEK CULVERTS

STAGE 2–WINTER SHUTDOWN	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON FORT ERIE BOUND LANES. SINGLE LANE PER DIRECTION OF TRAVEL	• REMOVE TC–54s AND REPLACE PAVEMENT MARKINGS • TORONTO BOUND BRIDGE CONSTRUCTION • REHABILITATE SOUTH OF MCLEOD ROAD AND GRASSY BROOK CULVERTS

METRIC

LEGEND

UNDER CONSTRUCTION

COMPLETED CONSTRUCTION

TCB TEMPORARY CONCRETE BARRIER

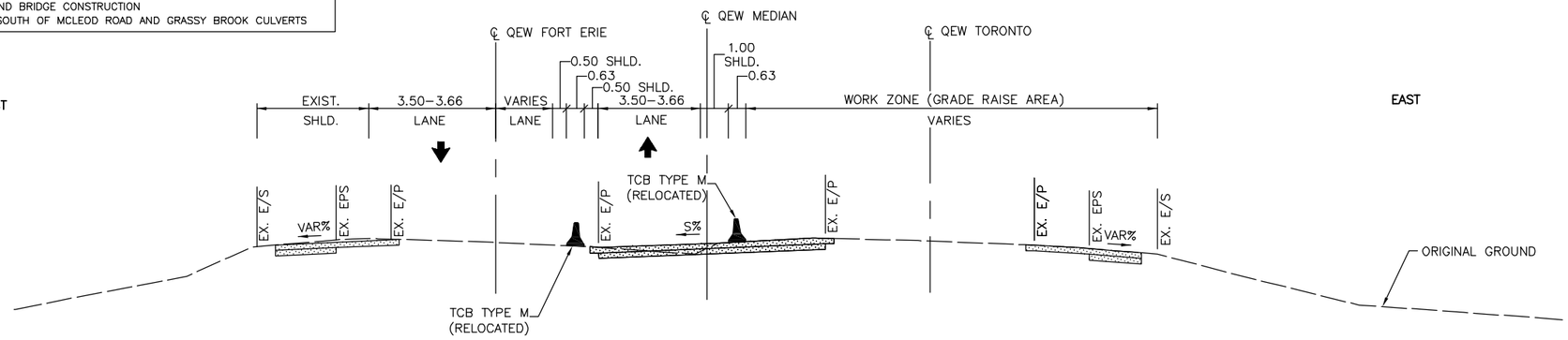
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CONT DB 2018–2013

WP 2430–15–00

STAGING TYPICALS

SHEET 3



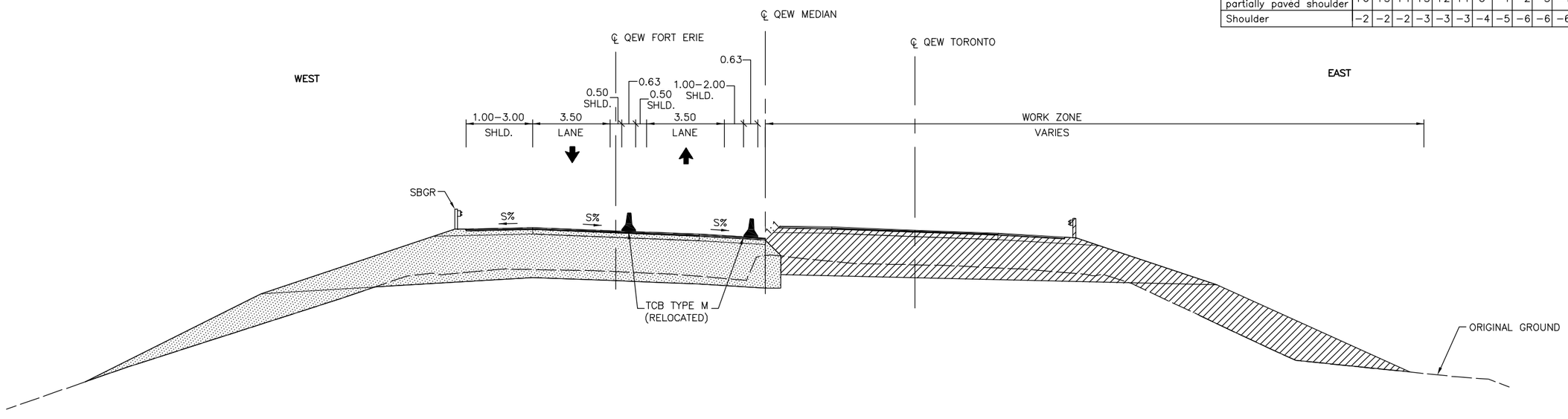
QEW–STAGE 2/STAGE 2–WINTER SHUTDOWN

N.T.S.

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH OTM BOOK 7.
2. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH STAGING PLANS SHOWN ELSEWHERE IN THE CONTRACT.
3. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH DESIGN TEMPLATES AND OPSD 200 SERIES DRAWINGS.
4. DRAINAGE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
5. ACCESS TO SIDEROADS AND COMMERCIAL/PRIVATE ENTRANCES TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

CROSSFALL, %												
Paved driving lane and partially paved shoulder	+6	+5	+4	+3	+2	+1	0	–1	–2	–3	–4	–5	–6
Shoulder	–2	–2	–2	–3	–3	–3	–4	–5	–6	–6	–6	–6	–6



QEW–STAGE 2/STAGE 2–WINTER SHUTDOWN

N.T.S.

MINISTRY OF TRANSPORTATION, ONTARIO PR–D–707 88–05

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DRAWN BY: M.DICKS
MODIFIED: 18/10/22 09:49:36 Revised
REVISED BY–B.J.M.

METRIC

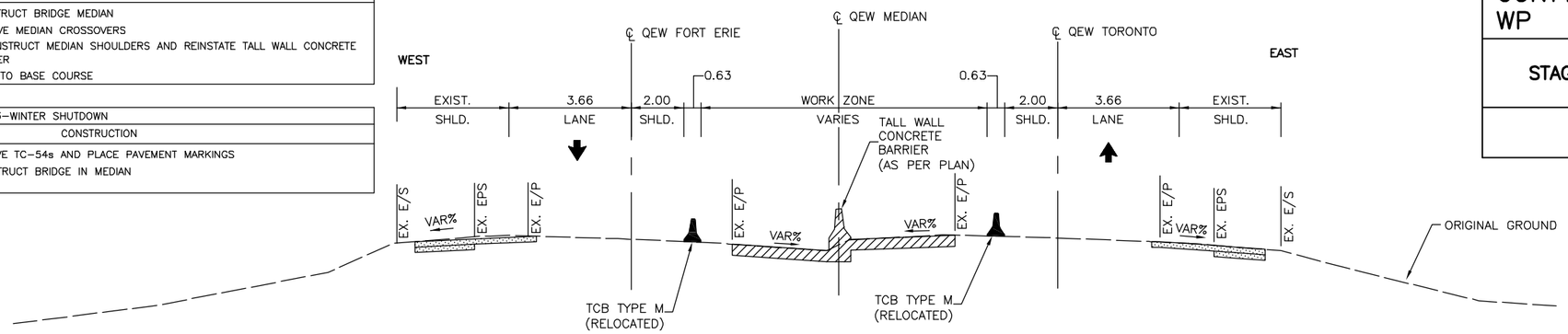
PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING TYPICALS

SHEET 4

STAGE 3	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON TORONTO AND FORT ERIE BOUND OUTSIDE LANES. REDUCE TO SINGLE LANE	• CONSTRUCT BRIDGE MEDIAN • REMOVE MEDIAN CROSSOVERS • RECONSTRUCT MEDIAN SHOULDERS AND REINSTATE TALL WALL CONCRETE BARRIER • PAVE TO BASE COURSE

STAGE 3-WINTER SHUTDOWN	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON TORONTO AND FORT ERIE BOUND OUTSIDE LANES. SINGLE LANE PER DIRECTION OF TRAVEL	• REMOVE TC-54s AND PLACE PAVEMENT MARKINGS • CONSTRUCT BRIDGE IN MEDIAN



QEW-STAGE 3/STAGE 3-WINTER SHUTDOWN

N.T.S.

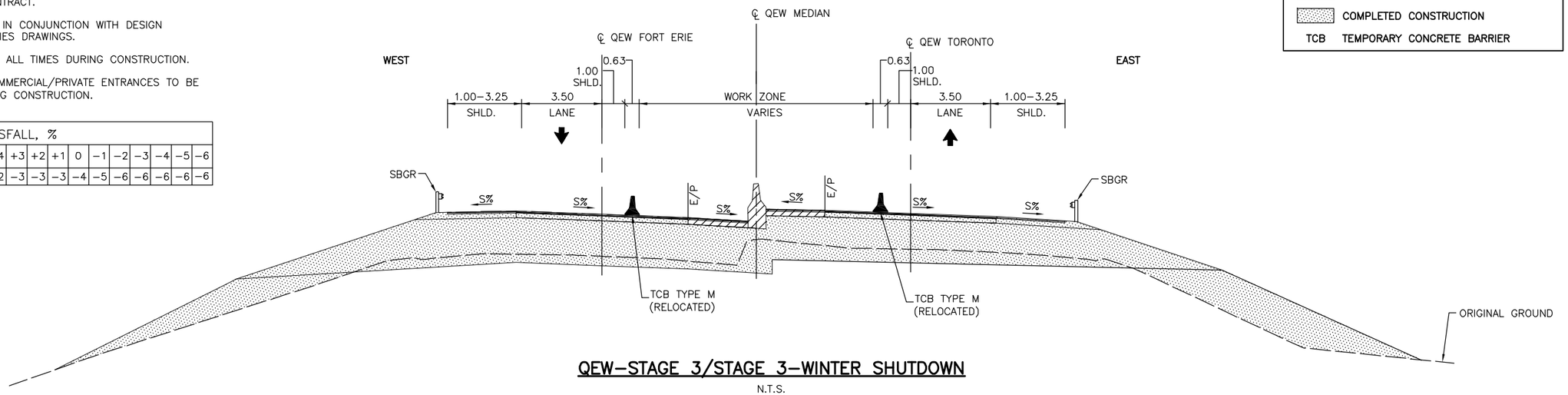
NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH OTM BOOK 7.
2. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH STAGING PLANS SHOWN ELSEWHERE IN THE CONTRACT.
3. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH DESIGN TEMPLATES AND OPSD 200 SERIES DRAWINGS.
4. DRAINAGE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
5. ACCESS TO SIDEROADS AND COMMERCIAL/PRIVATE ENTRANCES TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

CROSSFALL, %													
Paved driving lane and partially paved shoulder	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
Shoulder	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6

LEGEND

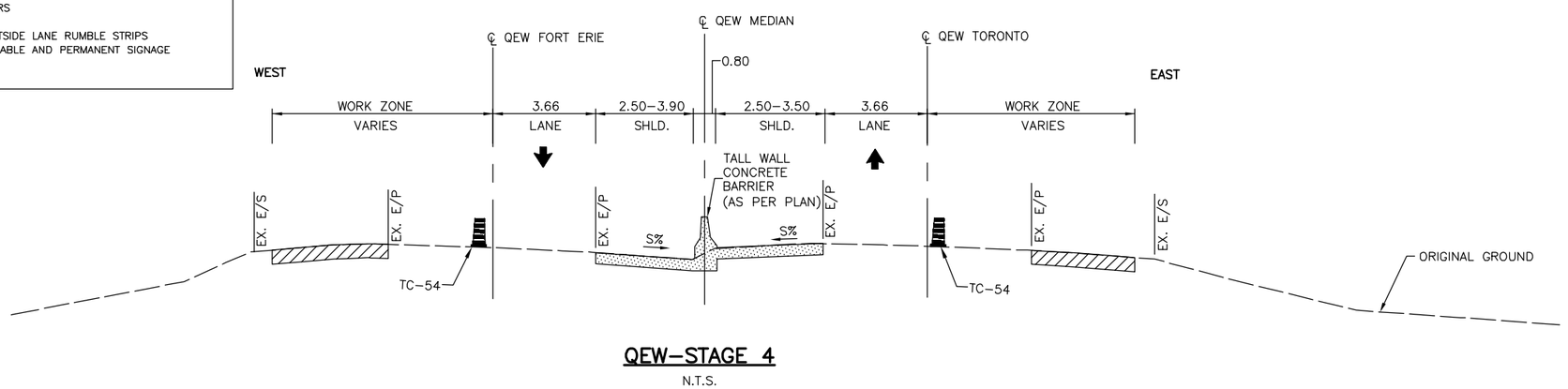
- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TCB TEMPORARY CONCRETE BARRIER



QEW-STAGE 3/STAGE 3-WINTER SHUTDOWN

N.T.S.

STAGE 4	
TRAFFIC	CONSTRUCTION
• TRAFFIC ON TORONTO AND FORT ERIE BOUND MEDIAN LANES. REDUCE TO SINGLE LANE • TRAFFIC ON TORONTO AND FORT ERIE BOUND LANES. REDUCE TO SINGLE LANE AS REQUIRED	• RECONSTRUCT OUTSIDE SHOULDERS • PAVE TO SURFACE COURSE • REINSTATE MEDIAN LANE AND OUTSIDE LANE RUMBLE STRIPS • PLACE PAVEMENT MARKINGS, DURABLE AND PERMANENT SIGNAGE



QEW-STAGE 4

N.T.S.

MINISTRY OF TRANSPORTATION, ONTARIO PR-0-707 88-05

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MODIFIED: 18/10/22 10:01:46 Revised
REVISED BY=B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1A
STA 19+600 TO STA 20+300

SHEET 5

wsp

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. PVMS SHALL BE IN USE DURING CONSTRUCTION PRE-STAGE WORK.
5. CONTRACTOR TO SPECIFY DIRECTION, LANES AND TAPERS.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

ANS (PVMS)
QEW FORT ERIE
LEFT LANE
TO BE CLOSED

ANS (PVMS)
McLEOD RD TO
LYONS CREEK RD
STARTS MMM DD

AWS (PVMS)
QEW FORT ERIE
LEFT LANE
CLOSED

AWS (PVMS)
McLEOD RD TO
LYONS CREEK RD
UNTIL MMM DD

18+800 19+300 19+700 19+800 19+808 19+900

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

STA. 19+950

TC-54

ANS (PVMS)/AWS (PVMS)

ANS	AWS	OR	AWS
QEW Fort Erie	QEW Fort Erie		
Left Lane to be Closed	Left Lane Closed		All Lanes Open
McLeod Rd to Lyons Creek Rd	McLeod Rd to Lyons Creek Rd		
Starts MMM DD	Until MMM DD		

P-1915-210 P-1915-36

N 4 769 500 E 335 500 N 4 769 300 N 4 769 200 E 335 500

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 769 100 E 335 600 N 4 769 000 N 4 768 900 N 4 768 800

OAKWOOD DRIVE

20+000 20+100 20+108 20+141 20+200 19+959

P-1915-210 P-1915-36

TC-54

CONSTRUCTION EGRESS
CONSTRUCTION INGRESS
EAT-RE-U-3
TCB TYPE M
3.00 SHLD.
1.00 SHLD.

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

STA. 19+950 STA. 20+300

SBGR CLF ASPH HdSA

20+068 20+084 20+104 20+108

MONTROSE ROAD

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S24.DWG
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MODIFIED: 18/10/22 10:38:39
REVISED BY-B.J.M. Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1A
STA 20+300 TO STA 21+000

SHEET 6

wsp

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. ADJUST AND WELD CATCHBASIN COVERS IN QEW MEDIAN CROSSOVER AREAS.
5. TCB TO BE PLACED AT END OF PRE-STAGE 1A.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

N 4 768 700 | E 335 600 | 20+300 | 20+400 | 20+420 | 20+500 | 20+516 | 20+600

CONNECT TO EXISTING TALL WALL OPSD 911.340

EXISTING ATMS FVMS

STA. 20+300

1.00 SHLD. | TCB TYPE M | TCB TYPE M (NOTE 5)

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

TC-54

STA. 20+650

SBGR | CLF | P-1915-36

500 m | TC-34 45x90 | TC-31L 90x90

MONTROSE ROAD

N 4 768 700 | N 4 768 600 | N 4 768 500

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 768 400 | N 4 768 300 | N 4 768 200 | N 4 768 100

OAKWOOD DRIVE

E 335 600 | 20+700 | 20+720 | 20+740 | 20+800 | 20+900 | 20+920 | 20+940

TC-31L 90x90

CONSTRUCTION EGRESS | CONSTRUCTION INGRESS | EAT-RE-U-3

STA. 20+650

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 21+000

P-1915-36

MONTROSE ROAD

E 335 500

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S25.DWG
DRAWN BY: G. DEAN
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REVISED BY-B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1A
STA 21+000 TO STA 10+050

SHEET 7

wsp

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND DURING WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

21+100 | 21+200 | 21+300

TC-31L 90x90 | 500 m | TC-31A 45x90

21+220 | 21+294 | 21+326

SBGR | CLF | P-1915-210 | E 335 600

STA. 21+100

1.00 SHLD. | TCB TYPE M | TORONTO BOUND LANES | TCB. TYPE M | 1.00 SHLD.

℄ QUEEN ELIZABETH WAY MEDIAN

1.00 SHLD. | TCB TYPE M | FORT ERIE BOUND LANES | 1.00 SHLD. | TCB TYPE M

CONSTRUCTION EGRESS

STA. 21+350

SBGRWC | CLF | P-1915-36 | N 4 768 000 | N 4 767 900 | N 4 767 800

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

OAKWOOD DRIVE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

21+400 | 21+500 | 21+526 | 21+550 | 21+580 | 21+594 | 21+600 | 21+610 | 10+000 | 10+035

WELLAND RIVER

SBGRWC | CLF | P-1915-210 | N 4 767 700 | N 4 767 600 | N 4 767 500 | N 4 767 400

STA. 21+350

1.00 SHLD. | TCB TYPE M | TORONTO BOUND LANES | 1.00 SHLD. | TCB TYPE M | EAT-RE-U-3 | TC-54

℄ QUEEN ELIZABETH WAY MEDIAN

CONSTRUCTION INGRESS

FORT ERIE BOUND LANES

EXISTING RWIS (NOTE 4)

EXISTING FAST PUMP HOUSE (NOTE 4)

HOT STA. 21+650.043 (BACK)
= HOT STA. 9+999.817 (AHEAD)

STA. 10+050

E 335 600

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

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DRAWN BY: G. DEAN MODIFIED: 18/10/22 17:01:30 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1A
STA 10+050 TO STA 10+750

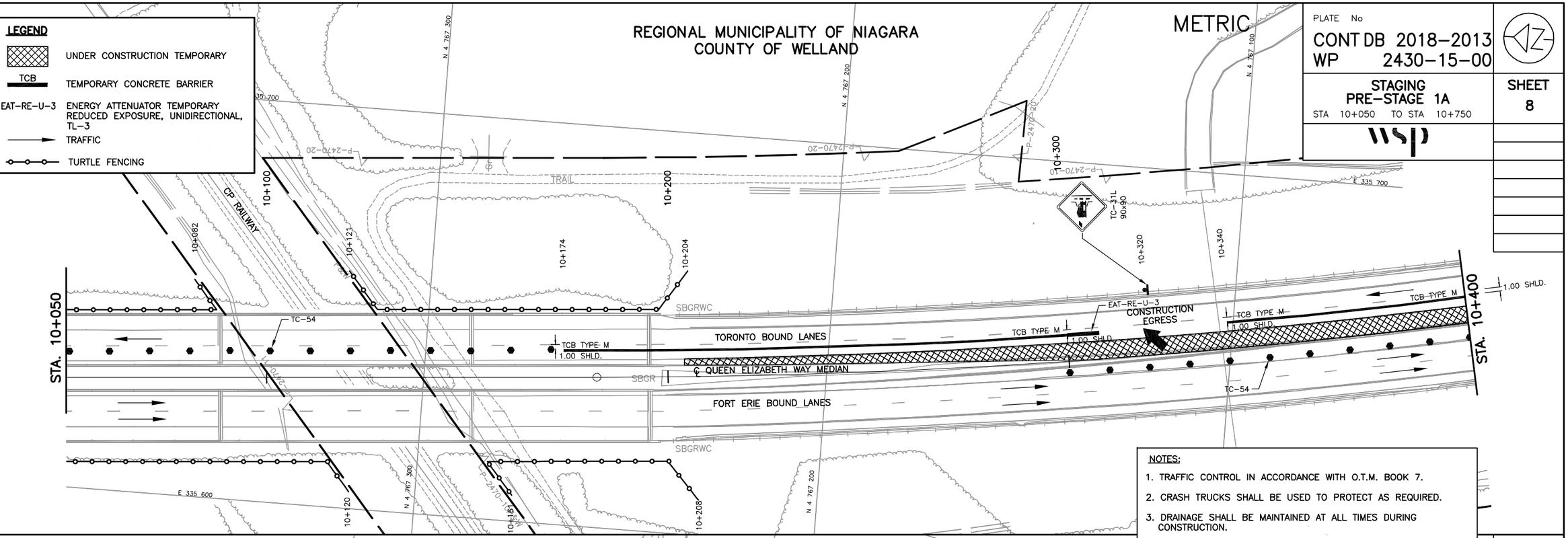
SHEET 8

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

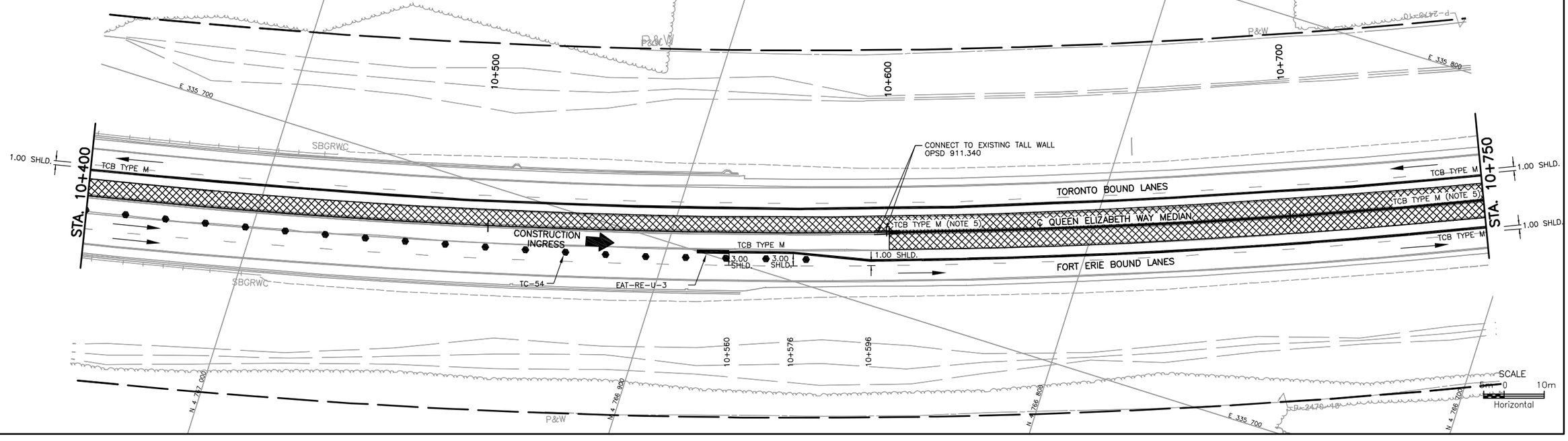
- UNDER CONSTRUCTION TEMPORARY
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC
- TURTLE FENCING



NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. ADJUST AND WELD CATCHBASIN COVERS IN QEW MEDIAN FROM STA. 20+300 TO STA. 20+550 AND FROM STA. 10+600 TO STA. 10+850.
5. TCB TO BE PLACED AT END OF PRE-STAGE 1A.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



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REVISED BY=G. DEAN
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1A
STA 10+750 TO STA 11+450

SHEET
9

wsp

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. PVMS SHALL BE IN USE DURING CONSTRUCTION PRE-WORK STAGING.
5. ADJUST AND WELD CATCHBASIN COVERS IN QEW MEDIAN FROM STA. 20+300 TO STA. 20+550 AND FROM STA. 10+600 TO STA. 10+850.
6. TCB TO BE PLACED AT END OF PRE-STAGE 1A.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 10+750

1.00 SHLD.
TCB TYPE M
TCB TYPE M (NOTE 6)
1.00 SHLD.
TCB TYPE M

10+800
10+820
10+854
10+900
10+943
10+963
10+979
11+000

TC-31L 90x90
TC-31A 45x90
500 m

CONNECT TO EXISTING TALL WALL OPSD 911.340

TORONTO BOUND LANES
3.00 SHLD.
1.00 SHLD.
TCB TYPE M
℄ QUEEN ELIZABETH WAY MEDIAN
CONSTRUCTION EGRESS
1.00 SHLD.
TCB TYPE M
FORT ERIE BOUND LANES

EAT-RE-U-3
TC-54
CONSTRUCTION INGRESS
TC-54

STA. 11+100

SBGR
P&W
E 335 800
N 4 766 600
N 4 766 500
E 335 900
E 336 100
N 4 766 300
N 4 766 400
E 336 000
N 4 766 200
E 336 100

10+897
10+927
11+079

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

REIXINGER ROAD

STA. 11+100

11+200
11+300
11+400
STA. 11+450

TC-54
TORONTO BOUND LANES
R=1750
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES
N-E/W RAMP

SCALE
5m 0 10m
Horizontal

P-2470-10

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

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REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1A
STA 11+450 TO STA 12+150

SHEET
10

wsp

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. PVMS SHALL BE IN USE DURING CONSTRUCTION PRE-WORK STAGING.
5. ADJUST AND WELD CATCHBASIN COVERS IN QEW MEDIAN FROM STA. 20+300 TO STA. 20+550 AND FROM STA. 10+600 TO STA. 10+850.
6. TCB TO BE PLACED AT END OF PRE-STAGE 1A.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

Q.E.W EBL
ASPH

E-N RAMP

E-W RAMP

E-S RAMP

W-S RAMP

W-N RAMP

S-E/W RAMP

LYONS CREEK ROAD

LYONS CREEK

TC-54

11+500 11+600 11+700 11+775 11+800 11+900 12+000 12+075 12+100 12+600 13+100

P&W P-2470-61 P-2470-10

P-2470-60 P-2470-03 P-2470-138

550 CSP

BM PAINTED DOT ON NE CORN BRIDGE OVER LYONS CREEK WP 714-93-00

E 336 200 E 336 300 E 336 400 E 336 500 E 336 600 E 336 700 E 336 800 E 336 900

N 4 766 100 N 4 766 000 N 4 765 900 N 4 765 800 N 4 765 700

ANS
QEW Toronto
Left Lane to be Closed
McLeod Rd to Lyons Creek Rd
Starts MMM DD

AWS
QEW Toronto
Left Lane Closed
McLeod Rd to Lyons Creek Rd
Until MMM DD

OR

AWS
All Lanes Open

ANS (PVMS)
QEW TORONTO
LEFT LANE
TO BE CLOSED

ANS (PVMS)
McLEOD RD TO
LYONS CREEK RD
STARTS MMM DD

AWS (PVMS)
QEW TORONTO
LEFT LANE
CLOSED

AWS (PVMS)
McLEOD RD TO
LYONS CREEK RD
UNTIL MMM DD

ANS (PVMS)/AWS (PVMS)

ANS AWS

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

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METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1B
STA 20+300 TO STA 21+000

SHEET 11

wsp

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC

ANS (PVMS)
QEW FORT ERIE
RIGHT LANE
TO BE CLOSED

ANS (PVMS)
McLEOD RD TO
LYONS CREEK RD
STARTS MMM DD

AWS (PVMS)
QEW FORT ERIE
RIGHT LANE
CLOSED

AWS (PVMS)
McLEOD RD TO
LYONS CREEK RD
UNTIL MMM DD

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. PVMS SHALL BE IN USE DURING CONSTRUCTION PRE-WORK STAGING.
5. RUMBLE STRIP REMOVAL.
6. SHOULDER ASPHALT WIDENING AND RUMBLE STRIP REMOVAL.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

TC-31R 90x90

20+300 | 19+300 | 18+800 | 20+379 | 20+400 | 20+475 | 20+500 | 20+529 | 20+600 | 20+601

CONSTRUCTION EGRESS

TC-54

NOTE 6

EXISTING ATMS FVMS

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

TCB TYPE M (PRE-STAGE 1A)

FORT ERIE BOUND LANES

CONSTRUCTION INGRESS

NOTE 5

STA. 20+650

ANS (PVMS)/AWS (PVMS)

ANS	AWS	AWS
QEW Fort Erie	QEW Fort Erie	
Right Lane to be Closed	Right Lane Closed	OR All Lanes Open
McLeod Rd to Lyons Creek Rd	McLeod Rd to Lyons Creek Rd	
Starts MMM DD	Until MMM DD	

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

20+700 | 20+800 | 20+900

TC-31R 90x90 | 500 m | TC-34A 45x90 | 20+975

NOTE 6

TC-54

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

NOTE 5

TC-54

20+820

TC-34A 45x90 | 500 m | TC-31L 90x90

MONTROSE ROAD

STA. 20+650 | STA. 21+000

SCALE
5m 0 10m
Horizontal

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MODIFIED: 18/10/23 12:12:21
REVISED BY-G. DEAN Revised

MINISTRY OF TRANSPORTATION, ONTARIO
88-05
PR-D-707

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1B
STA 21+000 TO STA 10+050

SHEET
12

wsp

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND DURING WINTER SHUTDOWN.
5. RUMBLE STRIP REMOVAL.
6. SHOULDER ASPHALT WIDENING AND RUMBLE STRIP REMOVAL.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 21+000

STA. 21+350

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

NOTE 6

NOTE 5

TC-54

CONSTRUCTION EGRESS

TC-31R 90x90

SBGRWC

CONSTRUCTION INGRESS

EXISTING FAST PUMP HOUSE (NOTE 4)

EXISTING RWIS (NOTE 4)

WELLAND RIVER

HOT STA. 21+650.043 (BACK)
= HOT STA. 9+999.817 (AHEAD)

STA. 10+050

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

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REVISED BY=G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1B
STA 10+050 TO STA 10+750

SHEET
13

wsp

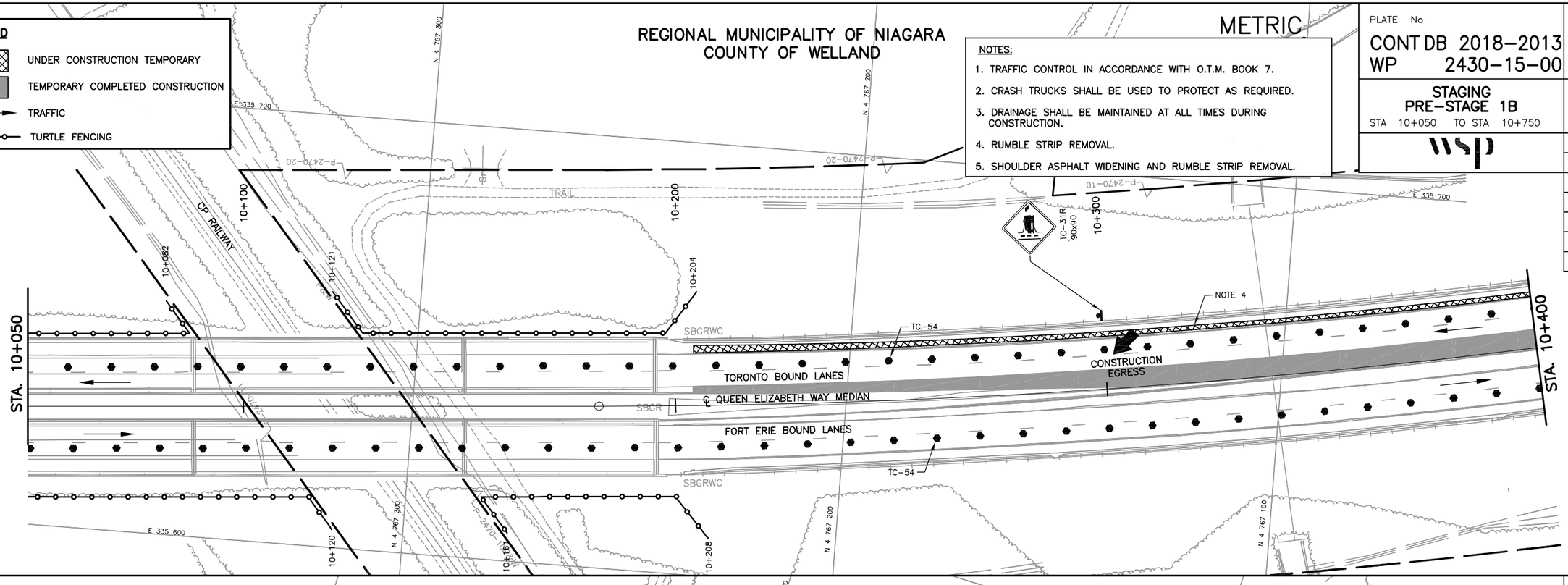
LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC
- TURTLE FENCING

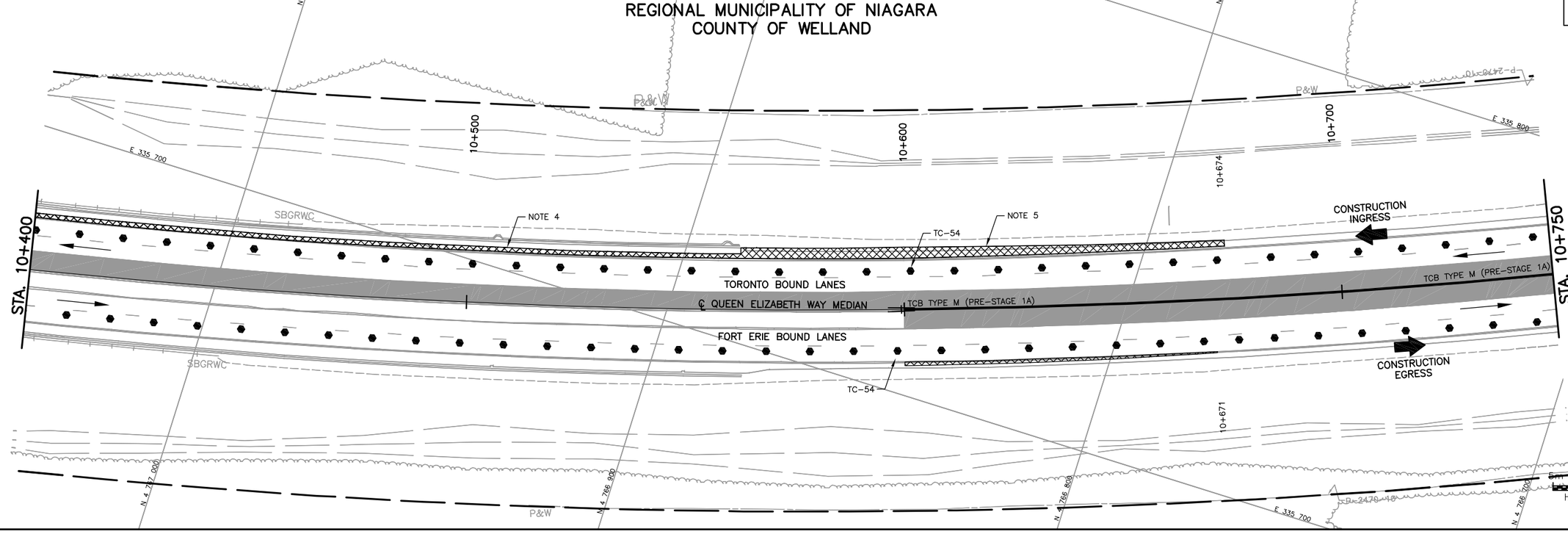
NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. RUMBLE STRIP REMOVAL.
5. SHOULDER ASPHALT WIDENING AND RUMBLE STRIP REMOVAL.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



SCALE
5m 0 10m
Horizontal

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MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
PRE-STAGE 1B
STA 10+750 TO STA 11+100

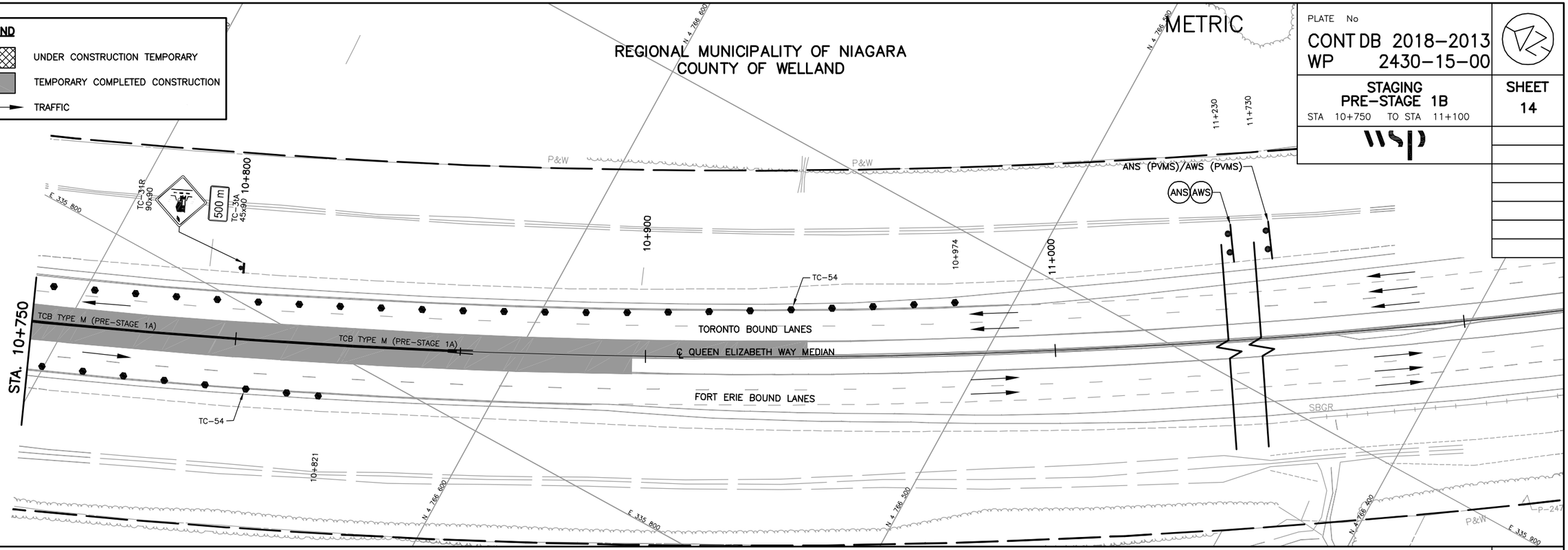
SHEET
14

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- UNDER CONSTRUCTION TEMPORARY
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC



ANS (PVMS)

QEW TORONTO
RIGHT LANE
TO BE CLOSED

ANS (PVMS)

McLEOD RD TO
LYONS CREEK RD
STARTS MMM DD

AWS (PVMS)

QEW TORONTO
RIGHT LANE
CLOSED

AWS (PVMS)

McLEOD RD TO
LYONS CREEK RD
UNTIL MMM DD

ANS

QEW Toronto
Right Lane to be Closed
McLeod Rd to Lyons Creek Rd
Starts MMM DD

→

AWS

QEW Toronto
Right Lane Closed
McLeod Rd to Lyons Creek Rd
Until MMM DD

OR →

AWS

All Lanes Open

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. PVMS SHALL BE IN USE DURING CONSTRUCTION PRE-STAGE WORK.

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 18+200 TO STA 18+900

SHEET
15

wsp

LEGEND

- UNDER CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 770 800
N 4 770 700
E 335 800
18+200
18+300
18+400
18+500
18+511
E-N RAMP
TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES
N-E/W RAMP
STA. 18+550
MATCH EXISTING
3.66
3.66
VARIES
11
9

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 770 600
N 4 770 700
N 4 770 800
18+600
18+700
18+800
18+811
E-N RAMP
TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES
N-E/W RAMP
TC-54
STA. 18+550
STA. 18+900
3.66
VARIES
3.66
3.66
11
9
MATCH EXISTING
E 335 700
N 4 770 500
N 4 770 400
N 4 770 300
N 4 770 200

SCALE
5m 0 10m
Horizontal

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MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 18+900 TO STA 19+600

SHEET
16

wsp

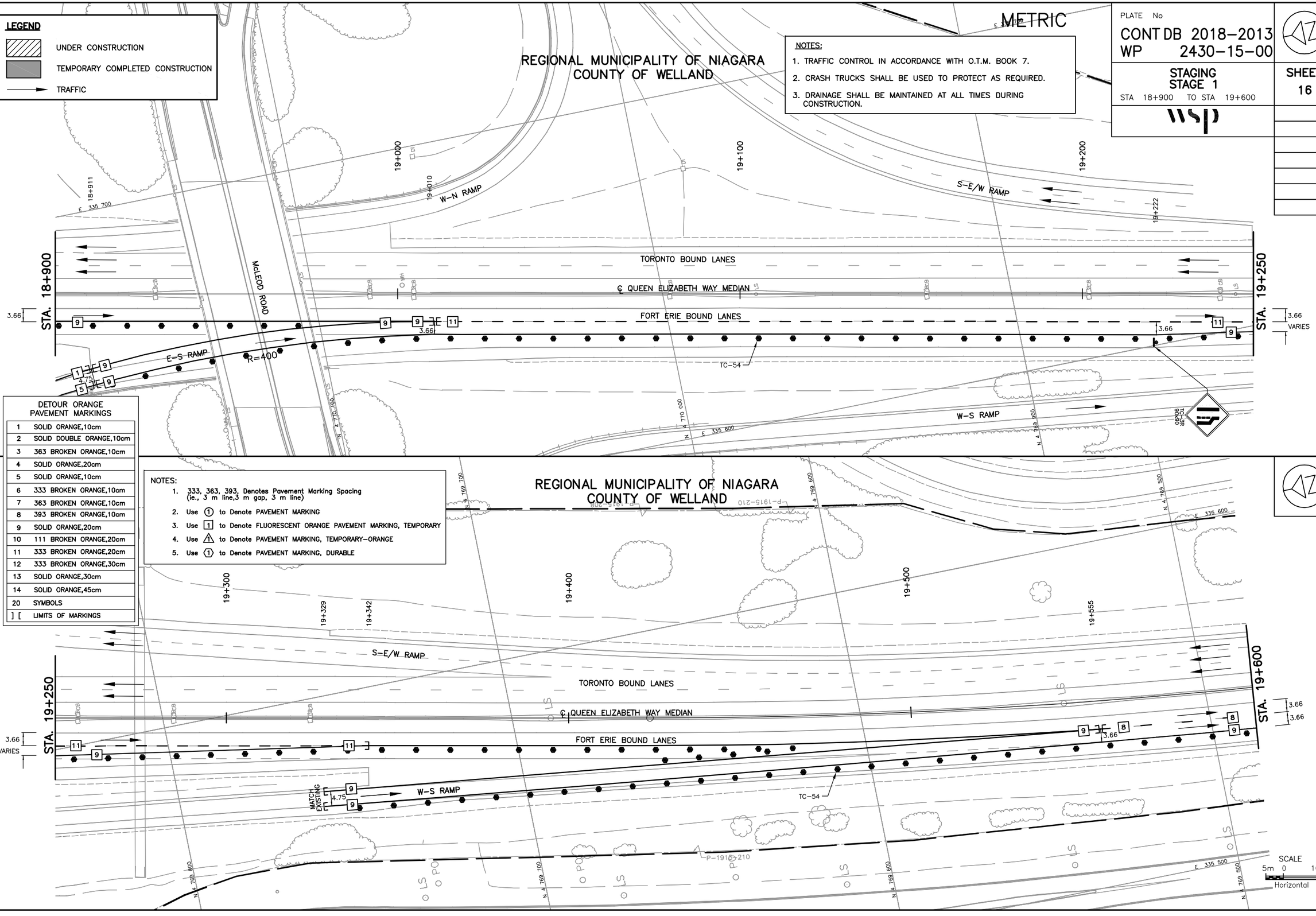
LEGEND

- UNDER CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use ① to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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DRAWN BY: G. DEAN REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 19+600 TO STA 20+200

SHEET
17

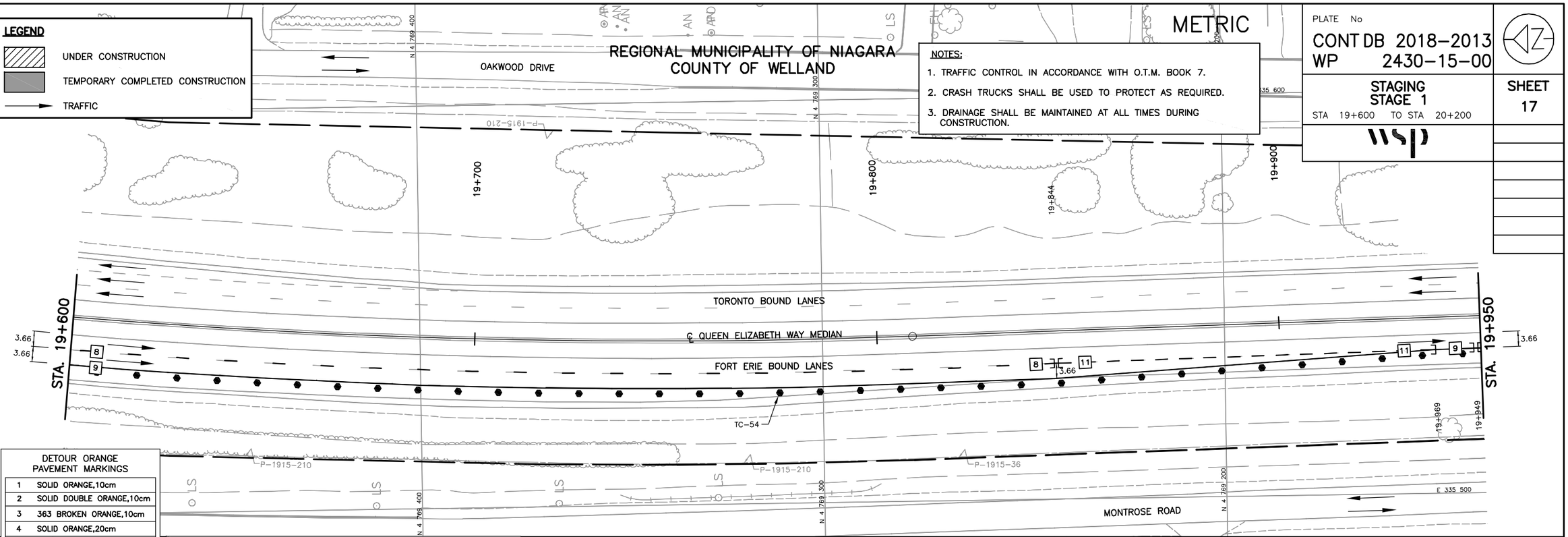
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LEGEND

- UNDER CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC

NOTES:

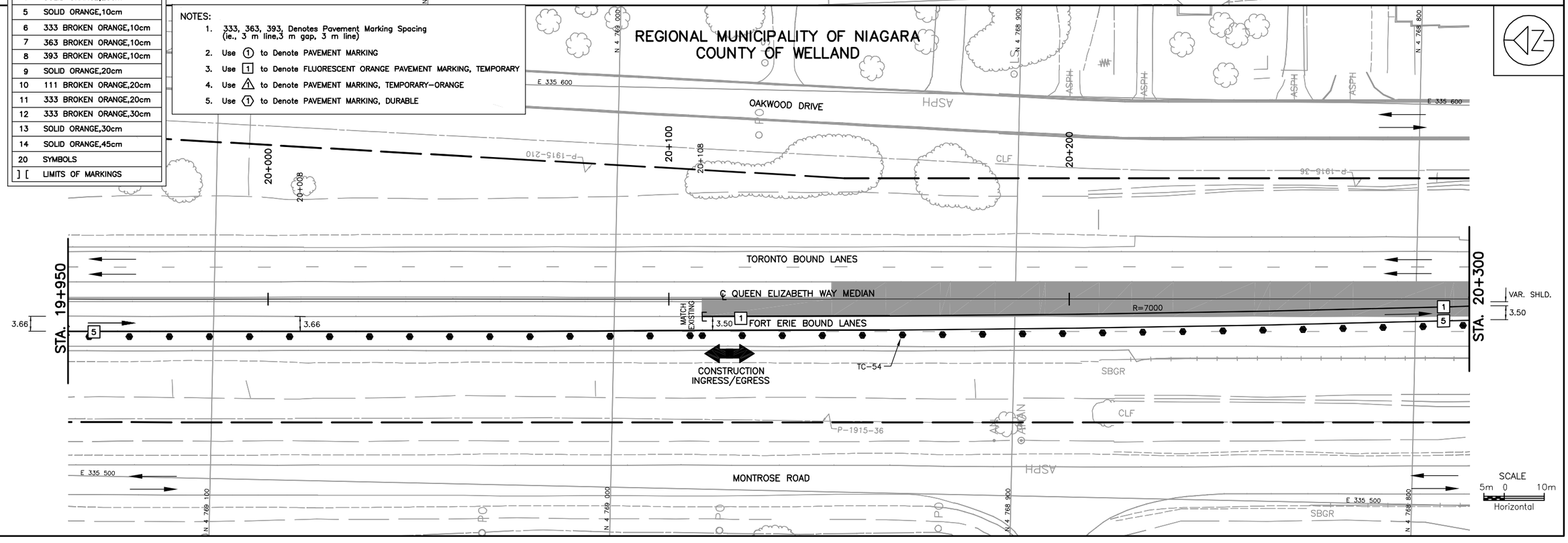
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.



DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700S03.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/23 15:12:50 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 20+300 TO STA 21+000

SHEET
18

wsp

LEGEND

- UNDER CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATED REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 20+300

CONNECT TO EXISTING TALL WALL OPSD 911.340

TCB TYPE M (RELOCATED)

VAR. SHLD 3.50

1.00 SHLD.

R=7000

TC-53B (2)

TC-54

CLOSED

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

EAR-RE-U-3

CONNECT TO EXISTING TALL WALL

EXISTING ATMS FVMS

TCB TYPE M (RELOCATED)

STA. 20+650

1.00 SHLD. 3.50 1.00 SHLD. 1.00 SHLD. 3.50

Rb-92 900x1200

ROAD CLOSED

MONTROSE ROAD

P-1915-36

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 20+650

OPSD 912.330

TCB TYPE M

TCB TYPE M (RELOCATED)

1.00 SHLD. 3.50 1.00 SHLD. 1.00 SHLD. 3.50

TORONTO BOUND LANES

FORT ERIE BOUND LANES

MATCH EXISTING

CONSTRUCTION INGRESS/EGRESS

2.00

5.00

P-1915-36

MONTROSE ROAD

STA. 21+000

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700SD4.DWG MODIFIED: 18/10/23 15:20:20 Revised
DRAWN BY: G. DEAN REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 21+000 TO STA 10+050

SHEET
19

wsp

LEGEND

- UNDER CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND WINTER SHUTDOWN.
5. RWIS STATION TO BE RELOCATED PRIOR TO STAGE 1 WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 21+100 — STA. 21+350

1.00 SHLD. | 3.50 | 1.00 SHLD. | 1.00 SHLD. | 3.50

TCB TYPE M (RELOCATED)

TORONTO BOUND LANES

FORT ERIE BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

CONNECT TO EXISTING TALL WALL OPSD 911.340

1.50 SHLD.

1.00 SHLD. | 3.50 | 1.00 SHLD. | 1.00 SHLD. | 3.50 | 1.50 SHLD.

STA. 21+350 — STA. 10+050

1.00 SHLD. | 3.50 | 1.00 SHLD. | 1.00 SHLD. | 3.50 | 1.365 SHLD.

R=7000

0.50 SHLD.

1.365 SHLD.

TCB TYPE M

EXISTING RWIS (NOTE 4) (NOTE 5)

EXISTING FAST PUMP HOUSE (NOTE 4)

WELLAND RIVER

HOT STA. 21+650.043 (BACK) = HOT STA. 9+999.817 (AHEAD)

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S05.DWG MODIFIED: 18/10/23 15:31:45 Revised
DRAWN BY: G. DEAN REVISED BY: G. DEAN

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 10+050 TO STA 10+750

SHEET
20

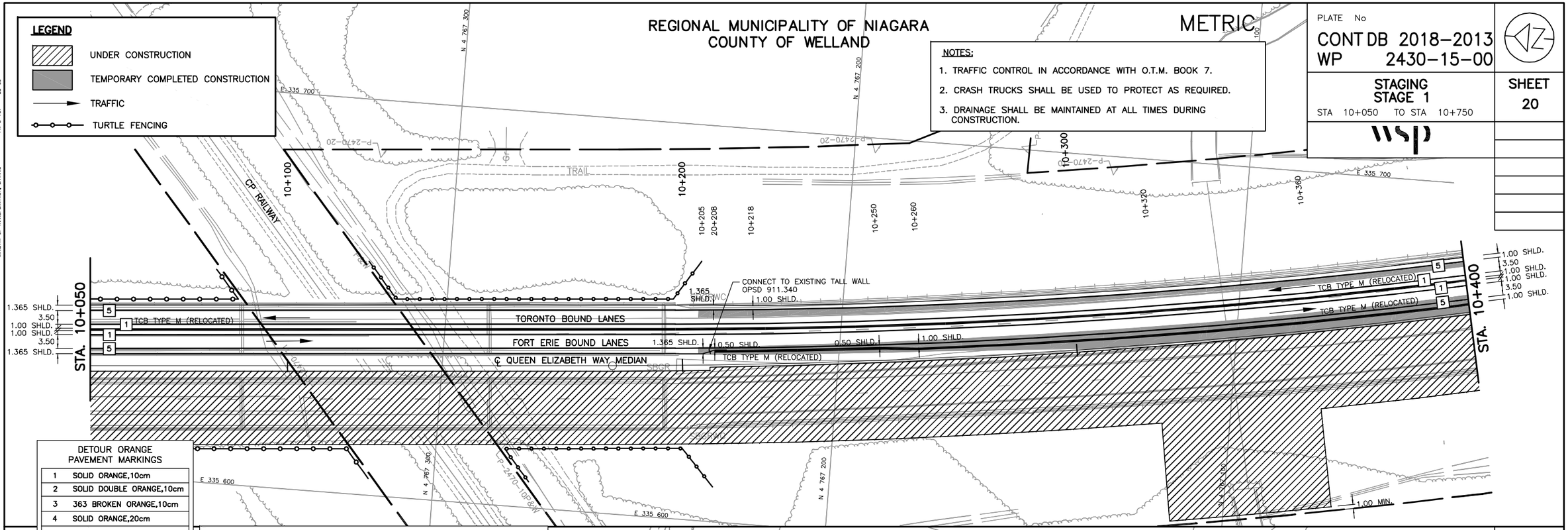
wsp

LEGEND

- UNDER CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.



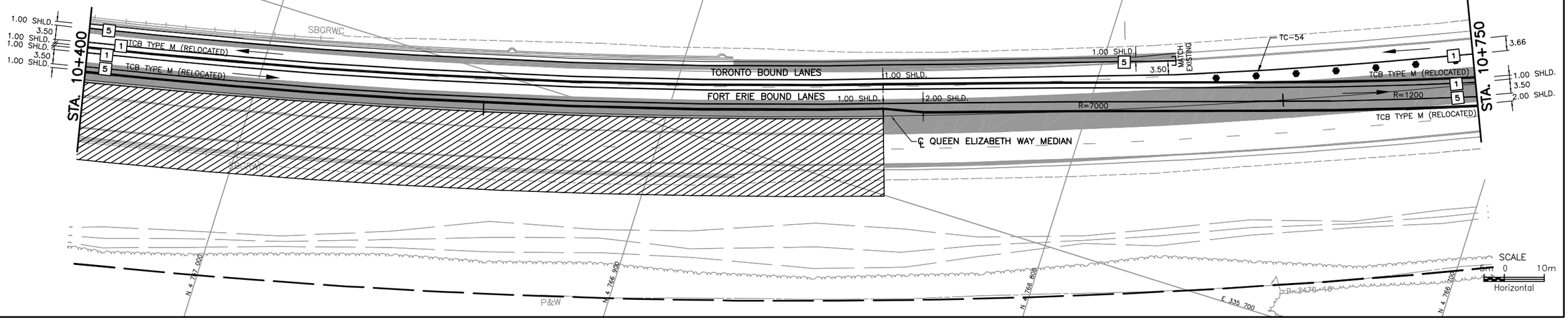
DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700506.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/23 15:49:07 Revised
REVISED BY=G. DEAN

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 10+750 TO STA 11+450

SHEET
21

wsp

LEGEND

- UNDER CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. ALL CONSTRUCTION TRAFFIC SHALL EXIT QEW VIA LYONS CREEK I/C N-E/W RAMP ONLY FROM THIS EGRESS LOCATION. CONSTRUCTION TRAFFIC SHALL RE-ENTER QEW FORT ERIE BOUND LANES VIA N-E DETOUR AND W-S RAMPS.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 10+750
STA. 11+100
STA. 11+450
STA. 11+325

10+784
10+800
10+806
10+854
10+900
10+925
11+000
11+052
11+145
11+200
11+228
11+285
11+300
11+400

3.66
1.00 SHLD.
3.50
2.00 SHLD.

TCB TYPE M (RELOCATED)
CONNECT TO EXISTING TALL WALL OPSD 911.340
TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES
MATCH EXISTING
TC-54
CONSTRUCTION EGRESS (NOTE 4)
SBGR
N-E/W RAMP
R=1750
R=245
P&W
P-2470-10

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700507.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/23 15:55:09 Revised
REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 11+450 TO STA 12+150

SHEET
22

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

TC-54

E-N RAMP

E-S RAMP

LYONS CREEK ROAD

CONSTRUCTION EGRESS

ASPH

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+800

STA. 12+150

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

TC-54

W-N RAMP

W-S RAMP

S-E/W RAMP

LYONS CREEK

BM PAINTED DOT ON NE CORN BRIDGE OVER LYONS CREEK WF 714-93-00

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700SDB.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/23 15:58:57 Revised
REVISED BY=G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 12+150 TO STA 12+850

SHEET
23

wsp

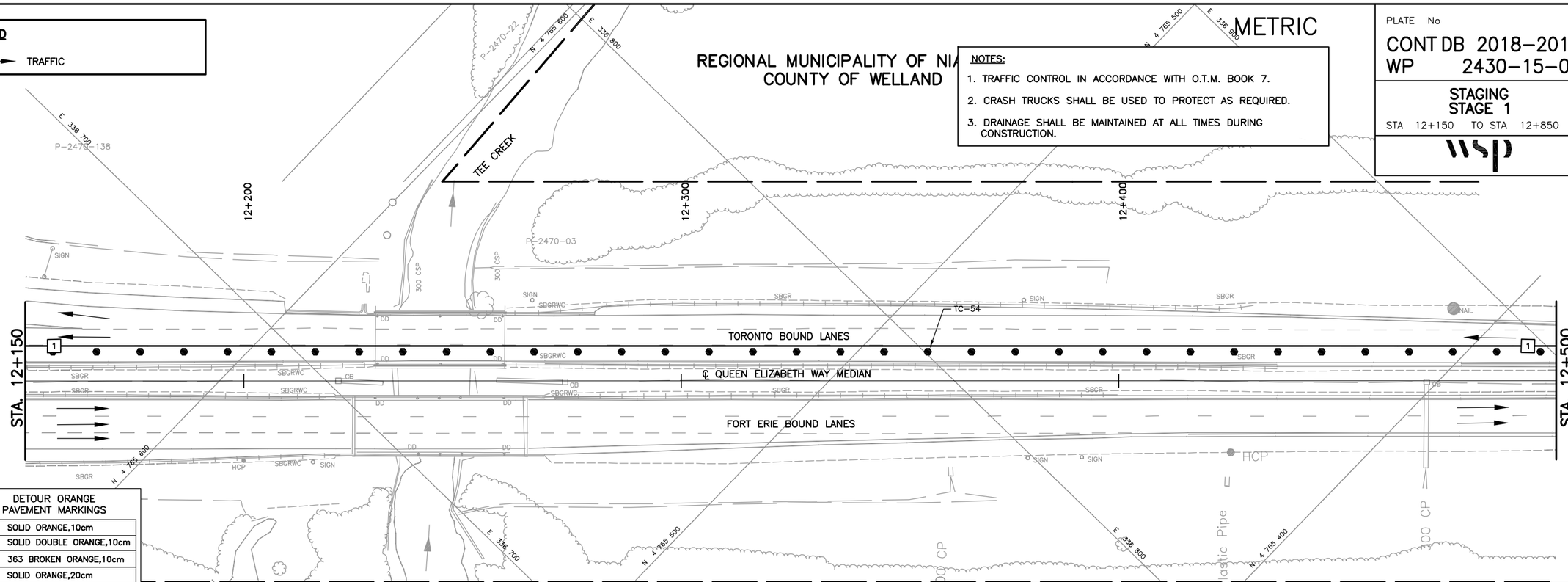
LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



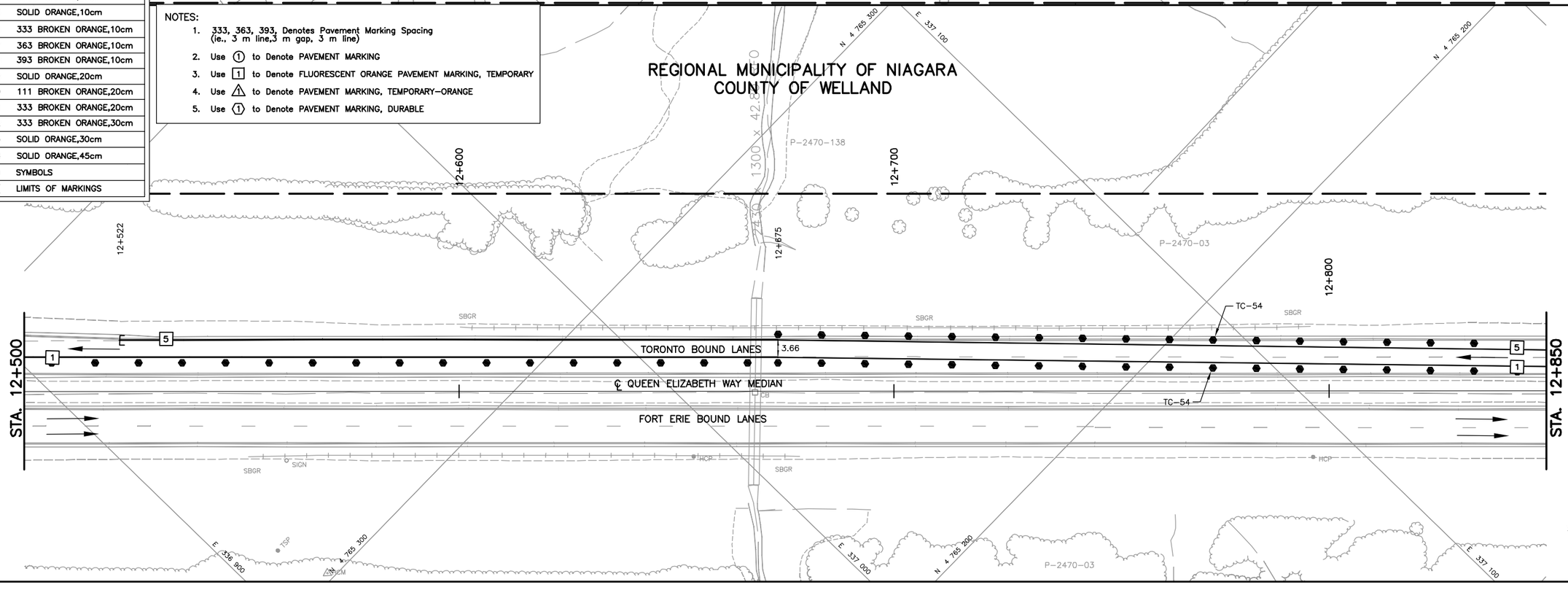
DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



SCALE
5m 0 10m
Horizontal

FILE LOCATION=..\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700SD9.DWG REVISED BY:-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/23 16:01:38 Revised

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA 12+850 TO STA 13+572

SHEET
24

wsp

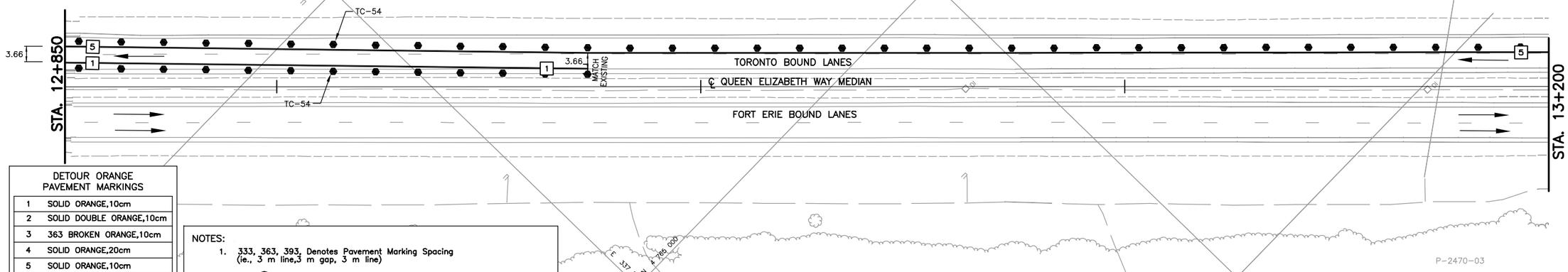
LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



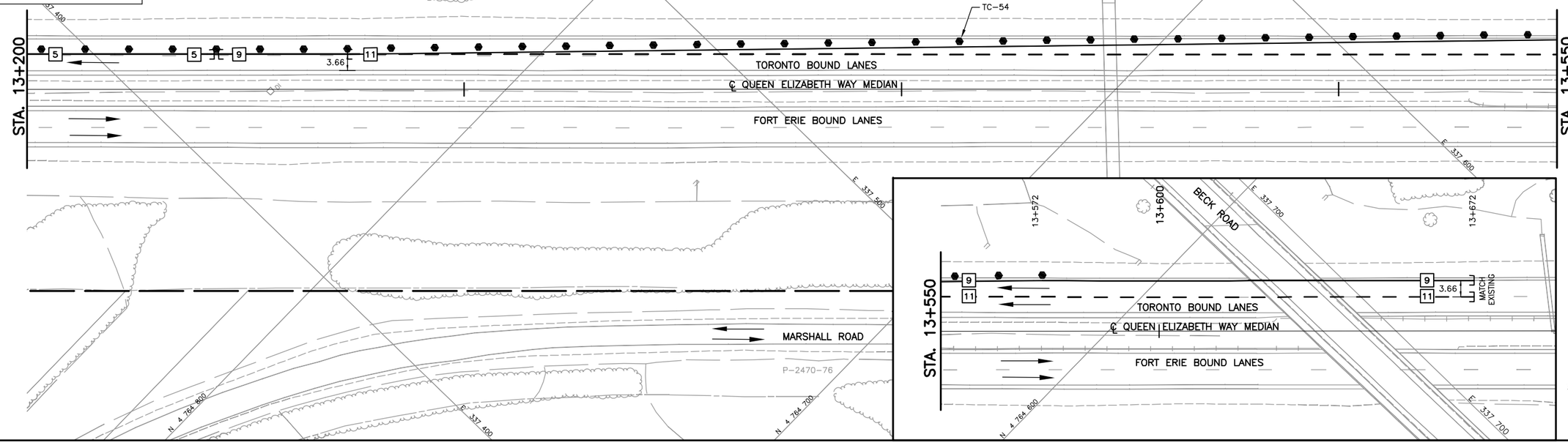
DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700S10.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/23 16:04:10 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 1
STA TO STA

SHEET
25

wsp

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+325

11+382

MATCH EXISTING

E 336 100
N 4 766 100
E 336 000
N 4 766 000
E 336 200

ASPH

P&W

LS

A-2470-60

N-E/W RAMP

E-S RAMP

N-E RAMP

N-W RAMP

CONSTRUCTION EGRESS

11+570
11+576
11+581
11+602

LYONS CREEK ROAD

W-S RAMP

CONSTRUCTION TRAFFIC ONLY

TC-CUSTOM

TC-7

TC-31L
90x90

SCALE
5m 0 10m
Horizontal

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

LEGEND

TEMPORARY COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION--\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S77.DWG REVISED BY:-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/23 16:42:54 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

SHEET 26

STAGING
WINTER SHUTDOWN-STAGE 1
STA 18+200 TO STA 18+900

wsp

LEGEND

TRAFFIC

ANS (PVMS)
QEW FORT ERIE
REDUCED
TO 1 LANE

AWS (PVMS)
McLEOD RD TO
LYONS CREEK RD
UNTIL MMM DD

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

NOTES:
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

18+000 18+200 18+300 18+400 18+500 18+511

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

STA. 18+550

MATCH EXISTING 3.66 11 3.66 9

3.66 VARIES

E 335 800

N 4 770 800

N 4 770 700

N 4 770 600

ANS (PVMS)/AWS (PVMS)

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

18+600 18+700 18+800 18+811 18+878

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

STA. 18+550 STA. 18+900

3.66 VARIES 11 9 11 9 3.66

MATCH EXISTING 1 5

E 335 800 E 335 700

N 4 770 500 N 4 770 400 N 4 770 300 N 4 770 200

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S47.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/23 16:56:17 Revised
REVISED BY- G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 18+900 TO STA 19+600

SHEET 27

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 18+900

STA. 19+250

STA. 19+600

McLEOD ROAD

W-N RAMP

S-E/W RAMP

E-S RAMP

W-S RAMP

OAKWOOD DRIVE

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

R=400

3.66

4.75

3.66 VARIES

MATCH EXISTING

19+000 | 19+010 | 19+100 | 19+200 | 19+222 | 19+300 | 19+329 | 19+342 | 19+400 | 19+500 | 19+555

E 335 700 | E 335 600 | E 335 500

N 4 770 000 | N 4 769 900 | N 4 769 800 | N 4 769 700 | N 4 769 600 | N 4 769 500

P-1915-208 | P-1915-210 | P-1918-210

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/08/20 08:42:05 Revised
REVISED BY=G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 19+600 TO STA 20+200

SHEET 28

wsp

LEGEND

TEMPORARY COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

E 335 600

N 4 769 400

N 4 769 300

19+700

19+800

19+844

19+900

P-1915-210

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 19+600

STA. 19+950

3.66

3.66

3.66

3.66

19+969

19+949

P-1915-210

P-1915-210

P-1915-36

E 335 500

N 4 769 200

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓓ1 to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

E 335 600

N 4 769 000

N 4 768 900

N 4 768 800

ASPH

20+000

20+008

20+100

20+108

20+200

P-1915-210

P-1915-36

CLF

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

R=7000

VAR. SHLD.

3.50

3.50

3.66

3.66

STA. 19+950

STA. 20+300

CONSTRUCTION
INGRESS/EGRESS

SBGR

MONTROSE ROAD

E 335 500

N 4 769 100

N 4 769 000

N 4 768 900

N 4 768 800

SCALE
5m 0 10m
Horizontal

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/08/20 09:57:07 Revised
REVISED BY: G. DEAN
PR-D-707 88-05
MINISTRY OF TRANSPORTATION, ONTARIO

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 20+300 TO STA 21+000

SHEET 29

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. REMOVE TEMPORARY CROSSING AND REGRADE PRIOR TO WINTER SHUTDOWN.
4. REPLACE CHAIN LINK FENCE AT END OF CULVERT REHABILITATION AND REGRADING WORK.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

N 4 768 700 — 20+400 — 20+500 — 20+516 — 20+520 — 20+526 — 20+529 — 20+542 — 20+600 — E 335 600

CLF — P-1915-36 — 20+304 — 20+316

CONSTRUCTION INGRESS/EGRESS

EXISTING ATMS FVMS

CONNECT TO EXISTING TALL WALL OPSD 911.340 (STAGE 1)

SBGR

MATCH EXISTING

STA. 20+300

VAR. SHLD 3.50

TCB TYPE M (STAGE 1)

1.00 SHLD.

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

R=7000

CLOSED

EAT-RE-U-3 (STAGE 1)
TC-53B (2)

CONNECT TO EXISTING TALL WALL

STA. 20+650

1.00 SHLD. 3.50 1.00 SHLD. 1.00 SHLD. 3.50

TCB TYPE M (STAGE 1)

ROAD CLOSED
Rb-92 90x120

MONTROSE ROAD

N 4 768 700 — N 4 768 600 — N 4 768 500

LEGEND

1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

N 4 768 300 — N 4 768 200 — N 4 768 100

E 335 600 — 20+700 — 20+708 — 20+756 — 20+800 — 20+900

CLF — P-1915-19

1.00 MIN.

OPSD 912.330 — OPSD 912.330

TCB TYPE M

STA. 20+650

1.00 SHLD. 3.50 1.00 SHLD. 1.00 SHLD. 3.50

TCB TYPE M (STAGE 1)

TORONTO BOUND LANES

FORT ERIE BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

STA. 21+000

1.00 SHLD. 3.50 1.00 SHLD. 1.00 SHLD. 3.50

TCB TYPE M (STAGE 1)

NOTE 3

NOTE 4

SBGR

CLF

P-1915-36

20+707 — 20+747

MONTROSE ROAD

E 335 500

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S50.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/23 17:04:43 Revised
REVISED BY=G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 21+000 TO STA 10+050

SHEET 30

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND DURING WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 21+100

1.00 SHLD. | 3.50 | 1.00 SHLD. | 1.00 SHLD. | 3.50

TCB TYPE M (STAGE 1)

TORONTO BOUND LANES

FORT ERIE BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

CONNECT TO EXISTING TALL WALL OPSD 911.340

1.50 SHLD.

TCB TYPE M (STAGE 1)

STA. 21+350

1.00 SHLD. | 3.50 | 1.00 SHLD. | 1.00 SHLD. | 3.50 | 1.50 SHLD.

STEEL BEAM ENERGY ATTENUATING TERMINAL (PERMANENT)

SBGR (PERMANENT)

21+100 | 21+200 | 21+287 | 21+294 | 21+300 | 21+340

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

OAKWOOD DRIVE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

WELLAND RIVER

21+400 | 21+427 | 21+442 | 21+500 | 21+540 | 21+550 | 21+582 | 21+544 | 21+600 | 10+000

CONNECT TO EXISTING TALL WALL OPSD 911.340

STA. 21+350

1.00 SHLD. | 3.50 | 1.00 SHLD. | 1.00 SHLD. | 3.50 | 1.50 SHLD.

R=7000 | 1.50 SHLD. | 0.50 SHLD. | R=7000 | 0.50 SHLD. | 1.00 SHLD. | 1.365 SHLD.

TCB TYPE M (STAGE 1)

TORONTO BOUND LANES

FORT ERIE BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

STA. 10+050

1.365 SHLD. | 3.50 | 1.00 SHLD. | 1.00 SHLD. | 3.50 | 1.365 SHLD.

SBGR (PERMANENT)

RWIS (RELOCATED) (NOTE 3)

EXISTING FAST PUMP HOUSE (NOTE 3)

HOT STA. 21+650.043 (BACK) = HOT STA. 9+999.817 (AHEAD)

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/10/23 17:20:50
REVISED BY: G. DEAN
Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 10+050 TO STA 10+750

SHEET 31

wsp

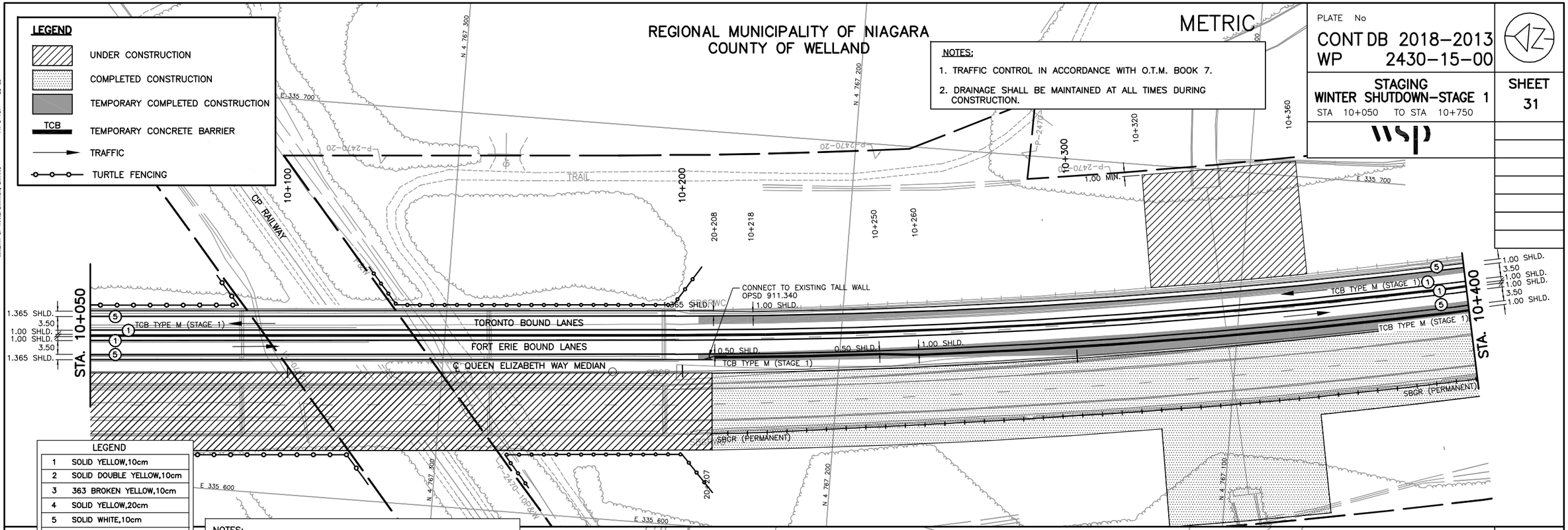
REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN MODIFIED: 18/09/11 14:04:11 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 10+750 TO STA 11+450

SHEET 32

wsp

LEGEND

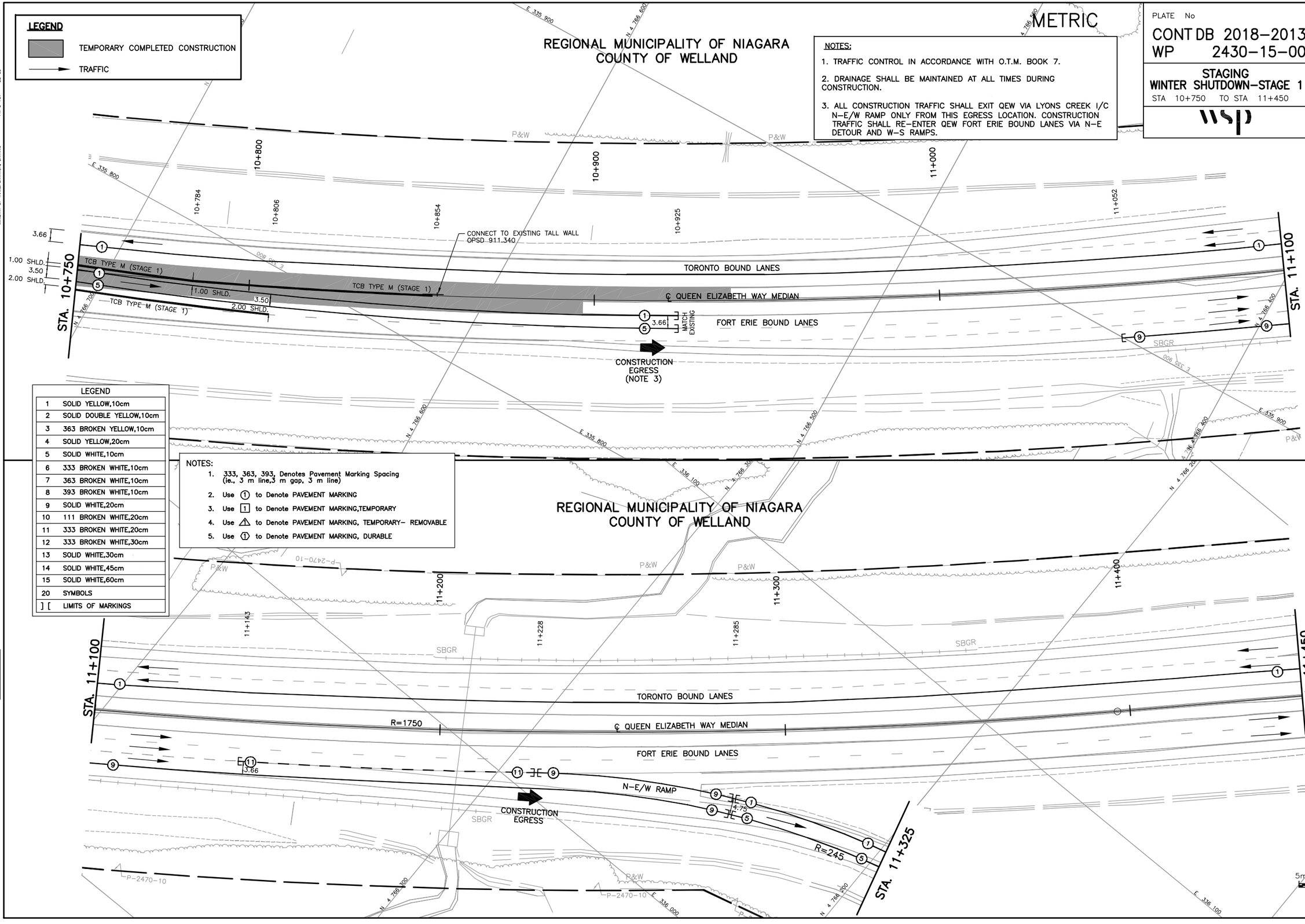
TEMPORARY COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. ALL CONSTRUCTION TRAFFIC SHALL EXIT QEW VIA LYONS CREEK I/C N-E/W RAMP ONLY FROM THIS EGRESS LOCATION. CONSTRUCTION TRAFFIC SHALL RE-ENTER QEW FORT ERIE BOUND LANES VIA N-E DETOUR AND W-S RAMPS.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700553.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/07/17 08:51:10 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 11+450 TO STA 12+150

SHEET 33

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

E-N RAMP

E-S RAMP

W-S RAMP

W-N RAMP

S-E/W RAMP

LYONS CREEK ROAD

LYONS CREEK

CONSTRUCTION EGRESS

ASPH

P&W

P-2470-10

P-2470-61

P-2470-60

P-2470-03

11+500

11+600

11+700

11+800

11+900

12+000

12+100

12+150

E 336 200

E 336 300

E 336 400

E 336 500

E 336 600

N 4 766 100

N 4 766 000

N 4 765 900

N 4 765 800

N 4 765 700

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S54.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/06/15 09:35:34 Revised
REVISED BY=G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 12+150 TO STA 12+850

SHEET 34

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

TEE CREEK

P-2470-22
P-2470-138
P-2470-03

12+200 12+300 12+400

300 CSP

STA. 12+150

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 12+500

SIGN SBGR SBGRWC DD CB HCP

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

1300 x 42.80 CSP
1200 CP
300 CP

12+522 12+600 12+675 12+700 12+800

STA. 12+500

TORONTO BOUND LANES 3.66

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 12+850

3.66

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S55.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/11 14:59:43 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA 12+850 TO STA 13+572

SHEET 35

wsp

LEGEND

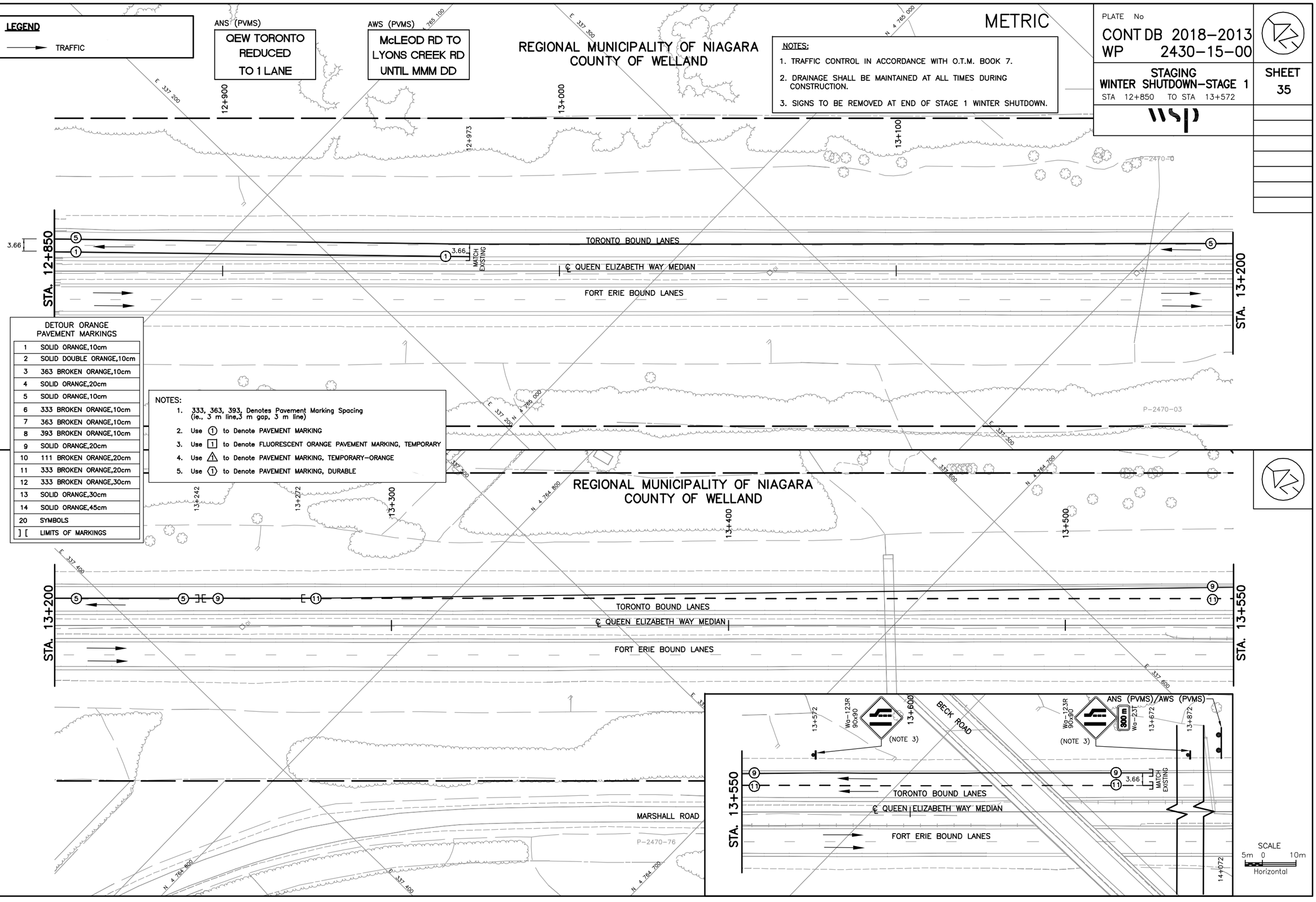
→ TRAFFIC

ANS (PVMS)
QEW TORONTO REDUCED TO 1 LANE

AWS (PVMS)
McLEOD RD TO LYONS CREEK RD UNTIL MMM DD

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

NOTES:
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. SIGNS TO BE REMOVED AT END OF STAGE 1 WINTER SHUTDOWN.



DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION-I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700556.DWG REVISED BY:-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/23 17:38:22 Revised

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 1
STA TO STA

SHEET
36

wsp

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. TC-53B BARRICADES WITH SANDBAGS SHALL BE PLACED ACROSS DETOUR AT START OF STAGE 2.
5. TC-CUSTOM AND TC-31L SHALL BE REMOVED AT THE END OF STAGE 1 WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+325

11+382

MATCH EXISTING

E 336 100
N 4 766 100
E 336 000
N 4 766 000
E 336 200

ASPH

N-E/W RAMP
E-S RAMP
N-E RAMP
N-W RAMP
W-S RAMP

LYONS CREEK ROAD

11+570
11+576
11+581
11+602

O LS
P&W
P-2470-60

NOTE 4

TC-CUSTOM (NOTE 5)
CONSTRUCTION TRAFFIC ONLY
TC-7
TC-31L 80x90 (NOTE 5)

SCALE
5m 0 10m
Horizontal

LEGEND

1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

LEGEND

TEMPORARY COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700STB.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 10:43:13 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 18+200 TO STA 18+900

SHEET
37

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

18+200 18+300 18+400 18+500 18+511

E 335 800

N 4 770 800 N 4 770 700 N 4 770 600

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

MATCH EXISTING

STA. 18+550

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

18+600 18+700 18+800 18+811

N 4 770 300 N 4 770 200

E-N RAMP

E 335 700

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 18+550 STA. 18+900

TC-54

N-E/W RAMP

N 4 770 500 N 4 770 400 N 4 770 300 N 4 770 200

E 335 700

MATCH EXISTING

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S33.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 09:32:13 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 18+900 TO STA 19+600

SHEET
38

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 18+900

STA. 19+250

STA. 19+600

McLEOD ROAD

E-S RAMP

R=400

W-N RAMP

S-E/W RAMP

W-S RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

19+000 19+010 19+100 19+200 19+222 19+300 19+329 19+342 19+400 19+500 19+555

E 335 700 E 335 600 E 335 500

N 4 770 000 N 4 769 800 N 4 769 700 N 4 769 600 N 4 769 500

P-1915-208 P-1915-210 P-1918-210

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use ① to Denote PAVEMENT MARKING
3. Use 1 to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700534.DWG MODIFIED: 18/10/24 09:35:57 Revised
DRAWN BY: G. DEAN REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 19+600 TO STA 20+300

SHEET
39

wsp

LEGEND

TEMPORARY COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 19+600

STA. 19+950

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use ① to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

CONSTRUCTION INGRESS/EGRESS

TC-54

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MONTROSE ROAD

SBGR

STA. 19+950

STA. 20+300

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05
FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/10/24 09:39:01 Revised
REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 20+300 TO STA 21+000

SHEET
40

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

N 4 768 700 | E 335 600 | 20+400 | 20+500 | 20+600 | CLF | P-1915-36 | 20+304 | 20+334 | 20+508 | 20+516 | 20+576

CONSTRUCTION INGRESS/EGRESS

EXISTING ATMS FVMS

CONNECT TO EXISTING TALL WALL OPSD 911.340

TC-54

SBGR

STA. 20+300

3.50 | 3.66

0.50 SHLD.

TCB TYPE M (RELOCATED)

℄ QUEEN ELIZABETH WAY MEDIAN

1.25 SHLD.

TORONTO BOUND LANES

FORT ERIE BOUND LANES

R=7000

0.50 SHLD.

3.66

STA. 20+650

3.50
0.50 SHLD.
0.50 SHLD.
VARIES

MONTROSE ROAD

N 4 768 700 | N 4 768 600 | N 4 768 500

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use ① to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 768 300 | N 4 768 200 | N 4 768 100

OAKWOOD DRIVE

E 335 600 | 20+700 | 20+707 | 20+747 | 20+800 | 20+900 | P-1915-19

20+674

1.00 MIN.

STA. 20+650

3.50
0.50 SHLD.
0.50 SHLD.
VARIES

TCB TYPE M (RELOCATED)

℄ QUEEN ELIZABETH WAY MEDIAN

TORONTO BOUND LANES

FORT ERIE BOUND LANES

3.50

STA. 21+000

3.50
0.50 SHLD.
0.50 SHLD.
3.50

MONTROSE ROAD

E 335 500

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

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DRAWN BY: G. DEAN
MODIFIED: 18/10/24 09:41:23 Revised
REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 21+000 TO STA 10+050

SHEET
41

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

21+100 21+200 21+300

21+287 21+394

STA. 21+100

3.50
0.50 SHLD.
0.50 SHLD.
3.50

5 — 1 — 1 — 5

TCB TYPE M (RELOCATED)

℄ QUEEN ELIZABETH WAY MEDIAN

TORONTO BOUND LANES

FORT ERIE BOUND LANES

OPSD 911.330

TCB TYPE M (RELOCATED)
2.00 SHLD.
3.00 SHLD.

STA. 21+350

2.00 SHLD.
3.50
0.50 SHLD.
0.50 SHLD.
3.50
3.00 SHLD.

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

OAKWOOD DRIVE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

WELLAND RIVER

21+400 21+500 21+600 10+000

21+434 21+442 21+527 21+543

OPSD 911.340

STA. 21+350

2.00 SHLD.
3.50
0.50 SHLD.
0.50 SHLD.
3.50
3.00 SHLD.

TCB TYPE M (RELOCATED)
2.00 SHLD.
1.00 SHLD.
TCB TYPE M (RELOCATED)
3.00 SHLD.
1.00 SHLD.

℄ QUEEN ELIZABETH WAY MEDIAN

TCB TYPE X
TCB TYPE X

TORONTO BOUND LANES
FORT ERIE BOUND LANES

TCB TYPE M (RELOCATED)

STA. 10+050

1.00 SHLD.
3.50
0.50 SHLD.
0.50 SHLD.
3.50
1.00 SHLD.

EXISTING FAST PUMP HOUSE (NOTE 4)

RWIS (RELOCATED) (NOTE 4)

HOT STA. 21+650.043 (BACK)
= HOT STA. 9+999.817 (AHEAD)

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700S13.DWG MODIFIED: 18/07/17 10:58:27 Revised
DRAWN BY: G. DEAN REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 10+050 TO STA 10+750

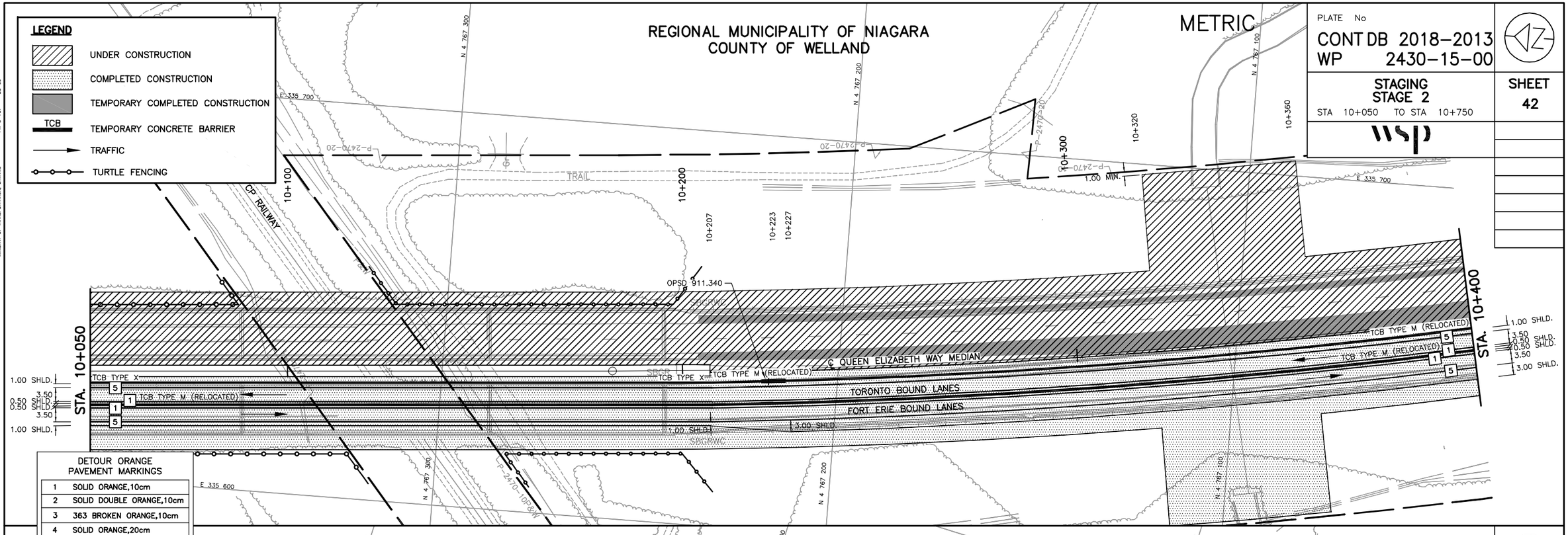
SHEET
42

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC
- TURTLE FENCING



DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

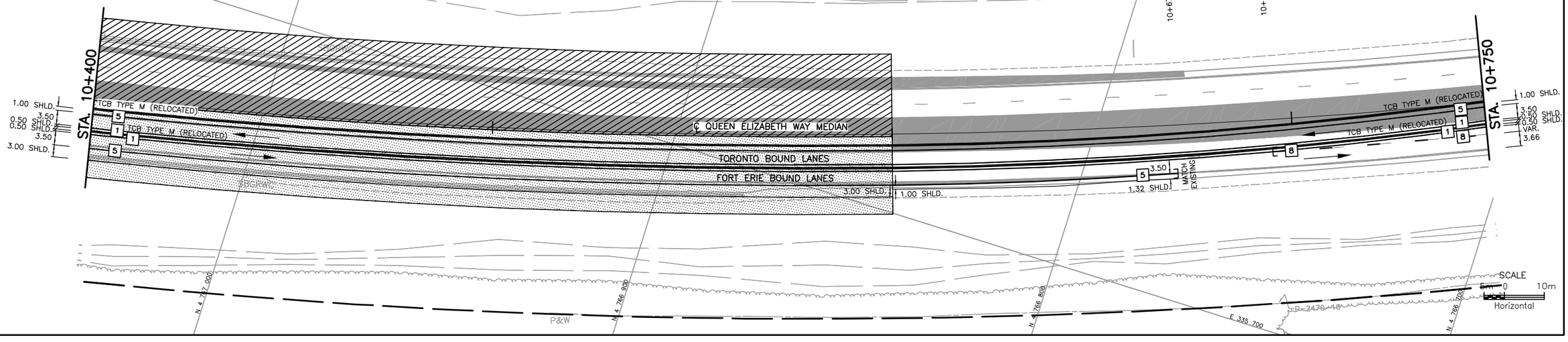
NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY–ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



SCALE
5m 0 10m
Horizontal

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S14.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 08:42:43 Revised
REVISED BY: G. DEAN

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 10+750 TO STA 11+450

SHEET
43

wsp

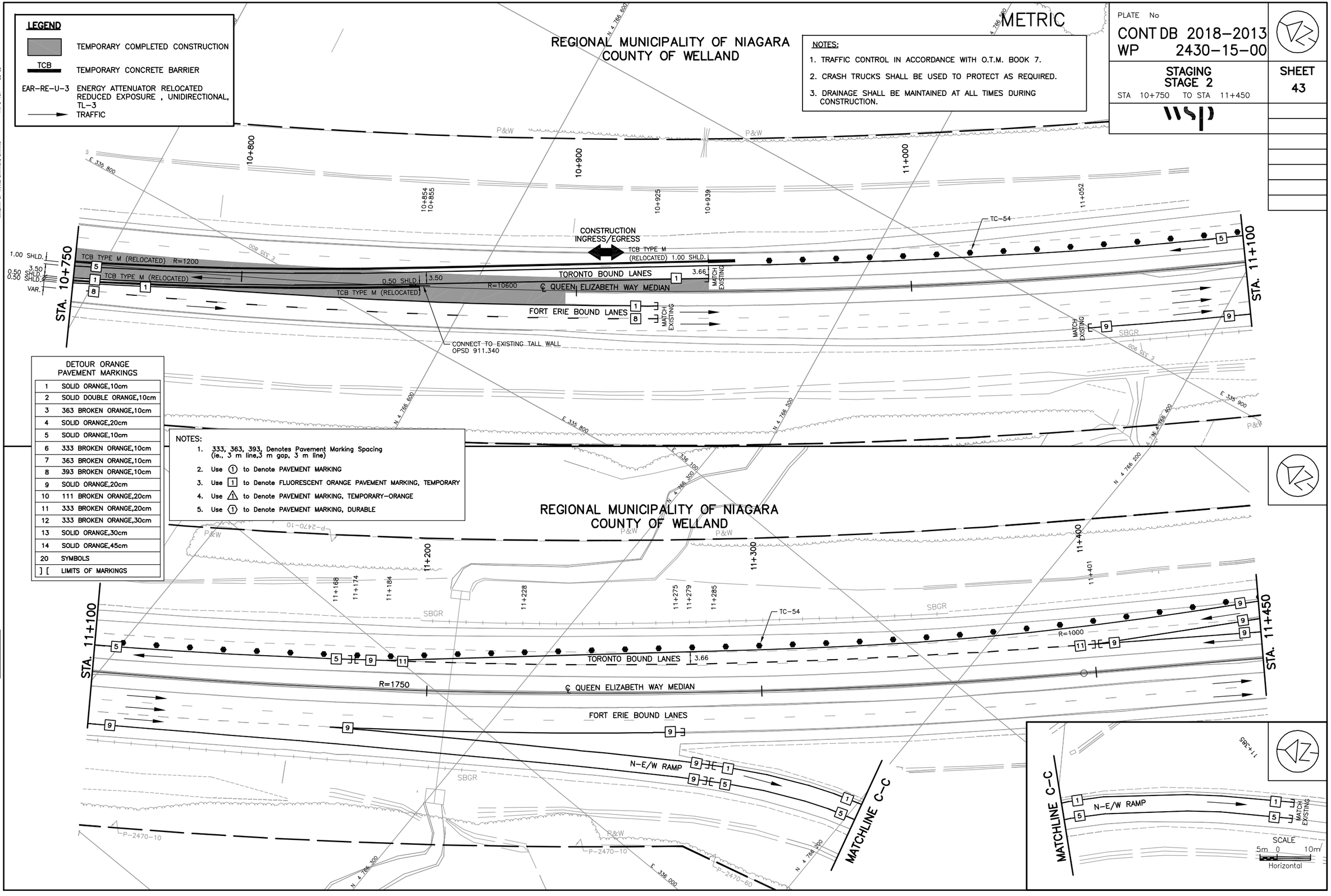
LEGEND

- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATED REDUCED EXPOSURE , UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700515.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 09:47:17 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 11+450 TO STA 12+150

SHEET
44

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

E-N RAMP

E-S RAMP

LYONS CREEK ROAD

MATCH EXISTING

TC-54

ASPH

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+800

STA. 12+150

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

W-N RAMP

W-S RAMP

S-E/W RAMP

LYONS CREEK

BM PAINTED DOT ON NE CORN BRIDGE OVER LYONS CREEK WF 714-93-00

TC-54

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S16.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 09:53:45 Revised
REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 12+150 TO STA 12+850

SHEET
45

wsp

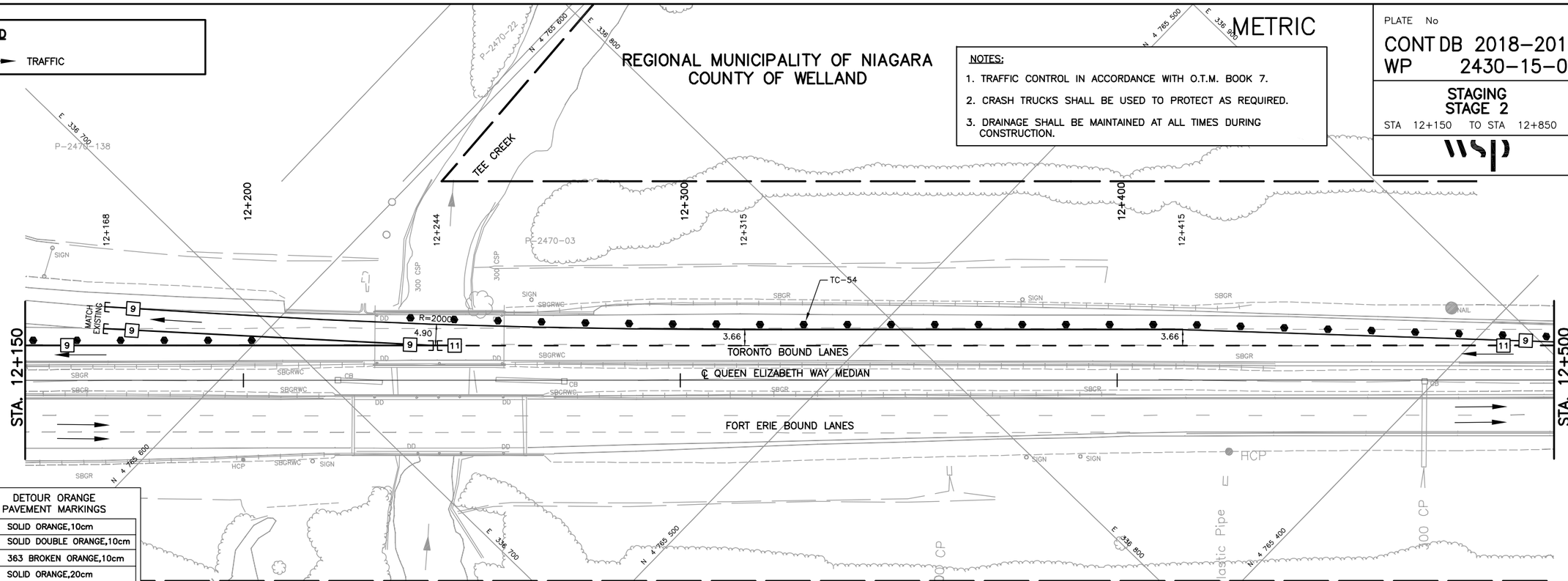
LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

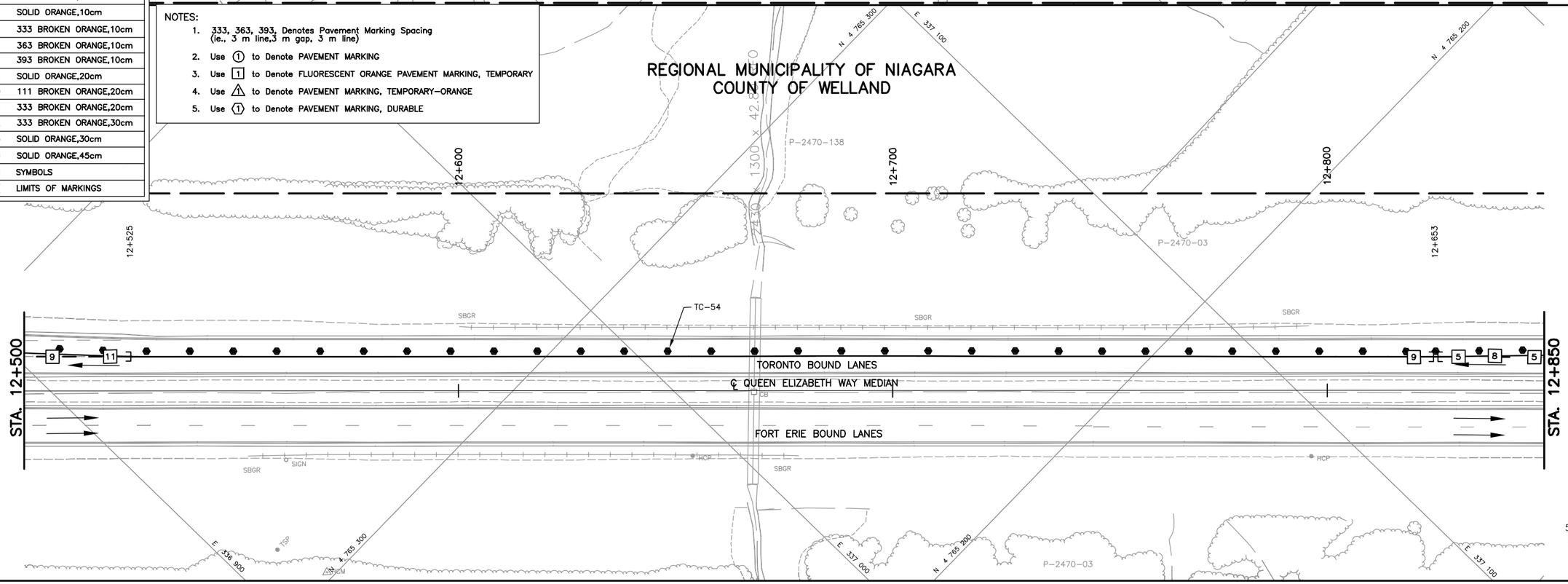


DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



SCALE
5m 0 10m
Horizontal

FILE LOCATION=..\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S17.DWG REVISED BY:-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 09:55:22 Revised
MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 2
STA 12+850 TO STA 13+572

SHEET
46

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 12+850

STA. 13+200

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

P-2470-0

P-2470-03

P-2470-76

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 13+200

STA. 13+550

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MARSHALL ROAD

BECK ROAD

STA. 13+550

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

3.66

MATCH EXISTING

SCALE
5m 0 10m
Horizontal

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S18.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/07/17 13:51:42 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

SHEET 47

STAGING
WINTER SHUTDOWN-STAGE 2
STA 18+200 TO STA 18+900

wsp

LEGEND

TRAFFIC

ANS (PVMS)
QEW FORT ERIE
REDUCED
TO 1 LANE

AWS (PVMS)
McLEOD RD TO
LYONS CREEK RD
UNTIL MMM DD

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

NOTES:
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

18+000 18+200 18+300 18+400 18+500 18+511

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

N-E/W RAMP

STA. 18+550

E 335 800

ANS (PVMS)/AWS (PVMS)

N 4 770 800 N 4 770 700 N 4 770 600

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

18+600 18+700 18+800 18+811

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

STA. 18+550 STA. 18+900

E 335 700 E 335 800

N 4 770 500 N 4 770 400 N 4 770 300 N 4 770 200

MATCH EXISTING

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S67.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 10:00:13 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 18+900 TO STA 19+600

SHEET
48

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 18+900

STA. 19+250

STA. 19+600

McLEOD ROAD

W-N RAMP

S-E/W RAMP

E-S RAMP

R=400

W-S RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

18+911

19+000

19+010

19+100

19+200

19+300

19+329

19+342

19+400

19+500

19+555

E 335 700

E 335 600

E 335 500

N 4 770 000

N 4 769 900

N 4 769 800

N 4 769 700

N 4 769 600

N 4 769 500

P-1915-208

P-1915-210

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use ① to Denote PAVEMENT MARKING
3. Use 1 to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓣ to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S68.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/07/23 14:14:53 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 19+600 TO STA 20+200

SHEET 49

wsp

LEGEND

TEMPORARY COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

E 335 600

N 4 769 400

N 4 769 300

19+687

19+697

19+700

19+800

19+644

19+900

P-1915-210

STA. 19+600

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

3.66

STA. 19+950

19+969

19+949

P-1915-210

P-1915-210

P-1915-36

E 335 500

N 4 769 200

N 4 769 400

N 4 769 300

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 769 000

N 4 768 900

N 4 768 800

E 335 600

OAKWOOD DRIVE

ASPH

CLF

19+991

20+000

20+100

20+200

20+108

20+141

20+144

P-1915-210

P-1915-36

CONSTRUCTION
INGRESS/EGRESS

MATCH EXISTING

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

3.50

3.66

R=7000

STA. 19+950

STA. 20+300

SBGR

P-1915-36

MONTROSE ROAD

E 335 500

N 4 769 100

N 4 769 000

N 4 768 900

N 4 768 800

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

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DRAWN BY: G. DEAN
MODIFIED: 18/07/23 14:19:13 Revised
REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 20+300 TO STA 21+000

SHEET 50

wsp

LEGEND

- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 20+300

CONNECT TO EXISTING TALL WALL OPSD 911.340

TCB TYPE M (STAGE 2)

3.50 | 0.50 SHLD. | ℄ QUEEN ELIZABETH WAY MEDIAN | 1.25 SHLD.

3.66 | TORONTO BOUND LANES

FORT ERIE BOUND LANES

CONSTRUCTION INGRESS/EGRESS

EXISTING ATMS FVMS

R=7000

0.50 SHLD. | TCB TYPE M (STAGE 2) | 3.66

STA. 20+650

3.50 | 0.50 SHLD. | 0.50 SHLD. | VARIES

SBGR

CLF

P-1915-36

MONTROSE ROAD

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

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2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 20+650

℄ QUEEN ELIZABETH WAY MEDIAN

TORONTO BOUND LANES

FORT ERIE BOUND LANES

TCB TYPE M (STAGE 2)

STA. 21+000

SBGR

CLF

P-1915-36

MONTROSE ROAD

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05
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DRAWN BY: G. DEAN
MODIFIED: 18/10/24 10:04:11 Revised
REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 21+000 TO STA 10+050

SHEET 51

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

21+100 21+200 21+300 21+287 21+394

STA. 21+100

3.50
0.50 SHLD.
0.50 SHLD.
3.50

TCB TYPE M (STAGE 2)

℄ QUEEN ELIZABETH WAY MEDIAN

TORONTO BOUND LANES

FORT ERIE BOUND LANES

OPSD 911.330

TCB TYPE M (STAGE 2) TCB TYPE M (STAGE 2)
2.00 SHLD.
TCB TYPE M (STAGE 2)
3.00 SHLD.

STA. 21+350

2.00 SHLD.
3.50
0.50 SHLD.
0.50 SHLD.
3.50
3.00 SHLD.

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
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2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

OAKWOOD DRIVE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

WELLAND RIVER

21+400 21+500 21+600 10+000

21+434 21+442 21+527 21+543 21+544

OPSD 911.340

SBGR (PERMANENT) SBGR (PERMANENT)

STA. 21+350

2.00 SHLD.
3.50
0.50 SHLD.
0.50 SHLD.
3.50
3.00 SHLD.

TCB TYPE M (STAGE 2)
2.00 SHLD.
1.00 SHLD.
TCB TYPE M (STAGE 2) TCB TYPE X (STAGE 2)
TCB TYPE M (STAGE 2)
3.00 SHLD.
1.00 SHLD.

℄ QUEEN ELIZABETH WAY MEDIAN

TORONTO BOUND LANES

FORT ERIE BOUND LANES

TCB TYPE X (STAGE 2)

STA. 10+050

1.00 SHLD.
3.50
0.50 SHLD.
0.50 SHLD.
3.50
1.00 SHLD.

EXISTING RWIS (NOTE 3)

EXISTING FAST PUMP HOUSE (NOTE 3)

21+528 21+556 21+544 21+548

HOT STA. 21+650.043 (BACK)
= HOT STA. 9+999.817 (AHEAD)

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/08/20 10:47:20 Revised
REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 10+050 TO STA 10+750

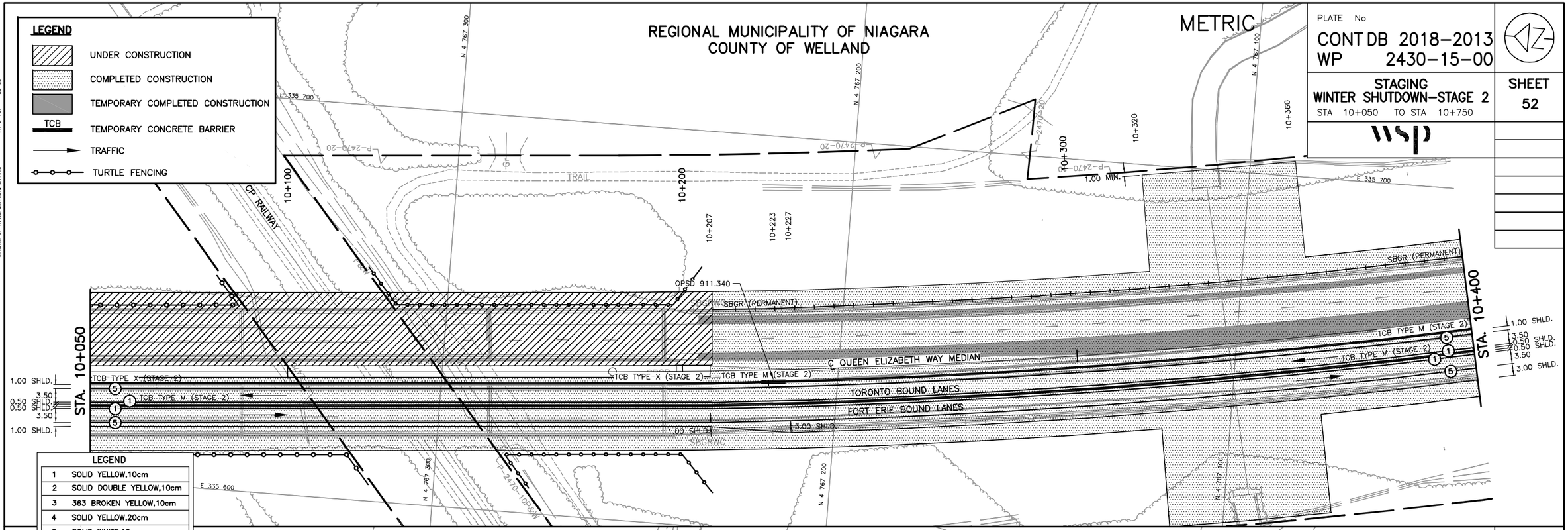
SHEET
52

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- TRAFFIC
- TURTLE FENCING



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

NOTES:
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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DRAWN BY: G. DEAN MODIFIED: 18/08/20 10:58:44 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 10+750 TO STA 11+450

SHEET 53

wsp

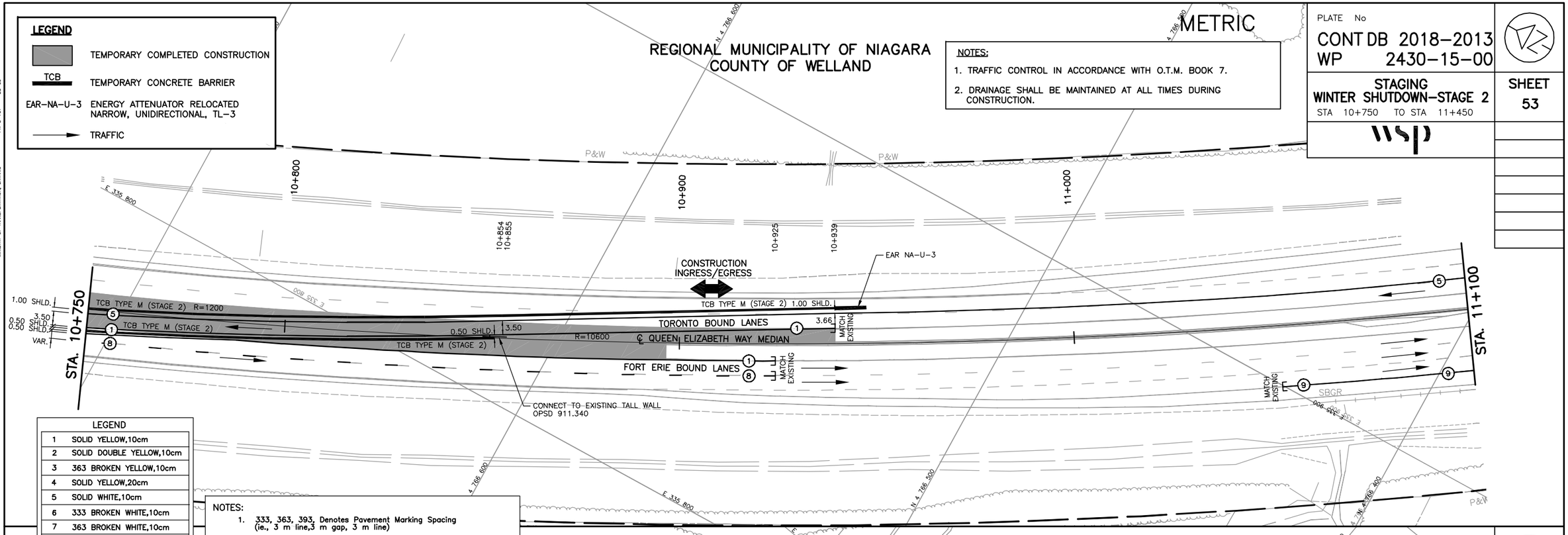
LEGEND

- TEMPORARY COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-NA-U-3 — ENERGY ATTENUATOR RELOCATED NARROW, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION-I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S73.DWG REVISED BY:-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 10:28:55 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 11+450 TO STA 12+150

SHEET 54

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

E-N RAMP

E-S RAMP

LYONS CREEK ROAD

MATCH EXISTING

ASPH

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+800

STA. 12+150

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

W-N RAMP

W-S RAMP

S-E/W RAMP

LYONS CREEK

BM PAINTED DOT ON NE CORN BRIDGE OVER LYONS CREEK WP 714-93-00

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S74.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 10:33:08 Revised
REVISED BY=G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 2
STA 12+150 TO STA 12+850

SHEET
55

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

TEE CREEK

STA. 12+150

STA. 12+500

MATCH EXISTING

R=2000

4.90

3.66

3.66

3.66

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 12+500

STA. 12+850

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S75.DWG REVISED BY:- G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/07/17 14:46:17 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

SHEET 56

STAGING
WINTER SHUTDOWN-STAGE 2
STA 12+850 TO STA 13+572

wsp

LEGEND

→ TRAFFIC

ANS (PVMS)
QEW TORONTO REDUCED TO 1 LANE

AWS (PVMS)
McLEOD RD TO LYONS CREEK RD UNTIL MMM DD

NOTES:
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 12+850

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

MATCH EXISTING

STA. 13+200

P-2470-03

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 13+200

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

STA. 13+550

MARSHALL ROAD

P-2470-76

ANS (PVMS)/AWS (PVMS)

STA. 13+550

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

3.66 MATCH EXISTING

BECK ROAD

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700576.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 10:36:48 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 18+200 TO STA 18+900

SHEET
57

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 770 800
N 4 770 700
N 4 770 600
E 335 800

18+200
18+300
18+400
18+500
18+511

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 18+550

MATCH EXISTING
3.66
11
9
3.66
VAR.

N-E/W RAMP

TC-54

DETOUR ORANGE
PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 770 300
N 4 770 200

18+600
18+700
18+800
18+811
18+841

E-N RAMP

E 335 700

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 18+550
STA. 18+900

3.66
VAR.
11
9
11
9
5
5
3.66

TC-54

N-E/W RAMP

N 4 770 500
N 4 770 400
N 4 770 300

MATCH EXISTING
1
5

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700519.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 08:05:24
REVISED BY=B.J.M. Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 18+900 TO STA 19+600

SHEET
58

wsp

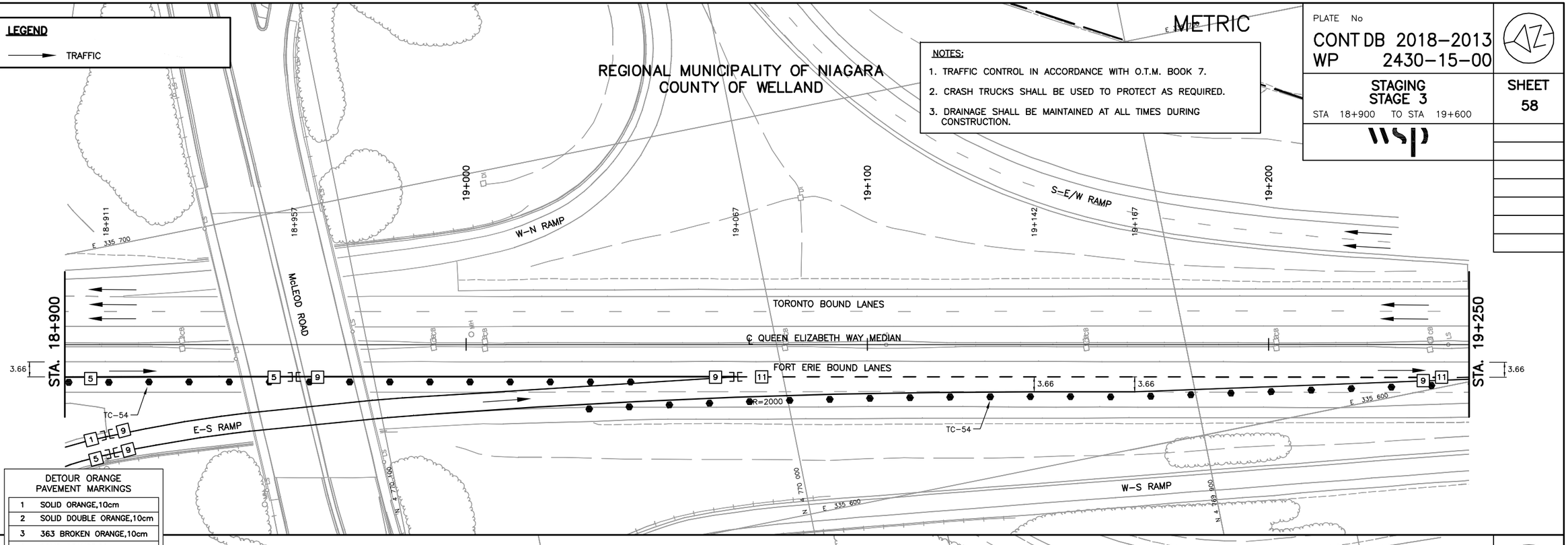
LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



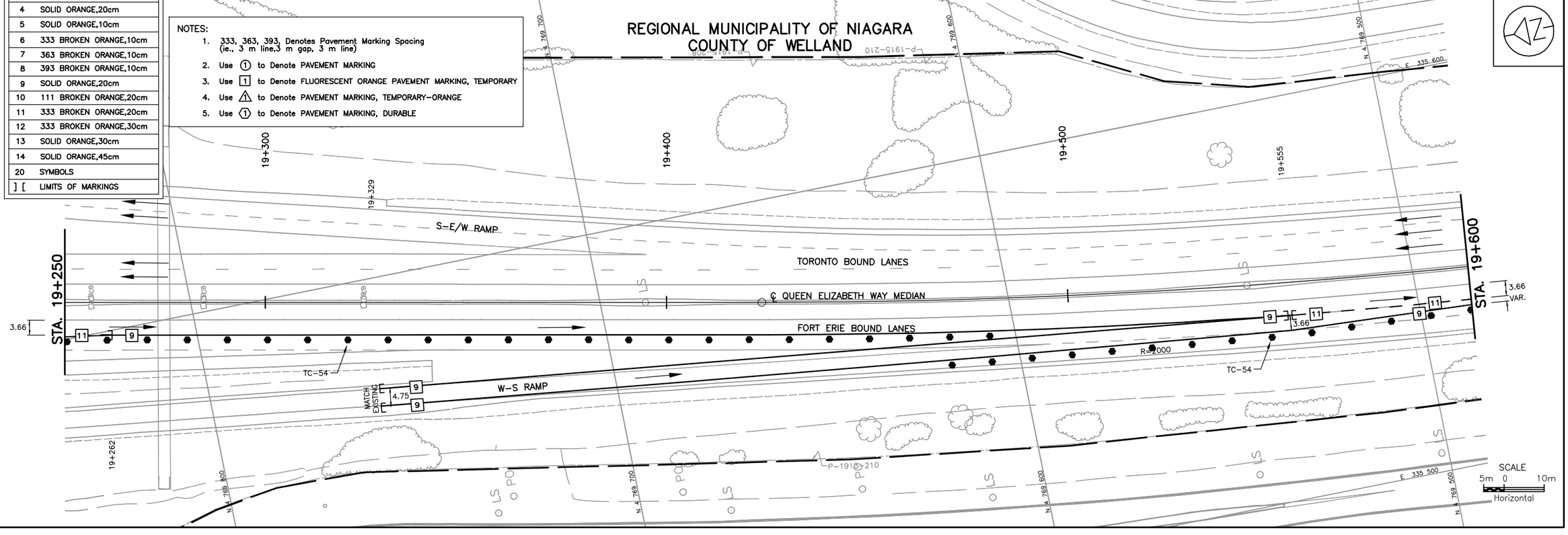
DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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DRAWN BY: G. DEAN
MODIFIED: 18/10/24 08:08:11
REVISED BY-B.J.M. Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 19+600 TO STA 20+300

SHEET
59

wsp

LEGEND

- UNDER CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATED REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

N 4 769 400 | N 4 769 300 | N 4 769 200

E 335 600 | E 335 500

19+649 | 19+659 | 19+700 | 19+800 | 19+809 | 19+900

STA. 19+600

STA. 19+950

3.66 VAR.

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

3.66

TC-54

P-1915-210 | P-1915-36

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 769 000 | N 4 768 900 | N 4 768 800

E 335 600 | E 335 500

OAKWOOD DRIVE

19+991 | 20+000 | 20+071 | 20+087 | 20+100 | 20+105 | 20+108 | 20+111 | 20+120 | 20+141 | 20+200

P-1915-210 | P-1915-36

STA. 19+950

STA. 20+300

MATCH EXISTING

TC-54

EAR-RE-U-3 CONSTRUCTION EGRESS

CONSTRUCTION INGRESS

TCB TYPE M (RELOCATED)

2.50 SHLD. | 1.00 SHLD.

3.66 TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

3.66 | 1.00 SHLD.

SBGR

CLF

ASPH

P-1915-36

TC-314 | 500 m | TC-310

MONTROSE ROAD

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S35.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 08:14:24
REVISED BY-B.J.M. Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 20+300 TO STA 21+000

SHEET
60

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATED REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

20+304 20+400 20+420 20+440 20+500 20+516 20+600 20+620 20+640

TC-31L 90x90

E 335 600

N 4 768 700 N 4 768 600 N 4 768 500

CLF P-1915-36 SBGR ASPH CONC GATE WF

EXISTING ATMS FVMS

CONSTRUCTION EGRESS

CONSTRUCTION INGRESS

EAR-RE-U-3

STA. 20+300

STA. 20+650

3.66
1.00 SHLD.

TCB TYPE M (RELOCATED)

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MONTROSE ROAD

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

20+700 20+800 20+900 20+920

TC-31L 90x90 500 m TC-30A 45x90

TC-34 45x90 TC-31L 90x90 500 m

E 335 600 E 335 500

N 4 768 400 N 4 768 300 N 4 768 200 N 4 768 100

CLF P-1915-19 SBGR ASPH CONC GRND GATE

STA. 20+650

STA. 21+000

3.66
1.00 SHLD.

TCB TYPE M (RELOCATED)

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MONTROSE ROAD

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S21.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 08:41:59
REVISED BY-B.J.M.
Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 21+000 TO STA 10+050

SHEET
61

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATED REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 21+000

CONSTRUCTION EGRESS

CONSTRUCTION INGRESS

EAR-RE-U-3

TC-31L 90x90

TORONTO BOUND LANES

FORT ERIE BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

TCB TYPE M (RELOCATED)

1.00 SHLD.

3.66

3.50

MATCH EXISTING

STA. 21+350

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

WELLAND RIVER

TC-31L 90x90

500 m

TC-31A 45x90

2.00 SHLD.

2.25 SHLD.

EXISTING FAST PUMP HOUSE (NOTE 4)

RWIS (RELOCATED) (NOTE 4)

HOT STA. 21+650.043 (BACK) = HOT STA. 9+999.817 (AHEAD)

STA. 10+050

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO 88-05 PR-D-707

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S22.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 09:15:47 Revised
REVISED BY-B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 10+050 TO STA 10+750

SHEET
62

wsp

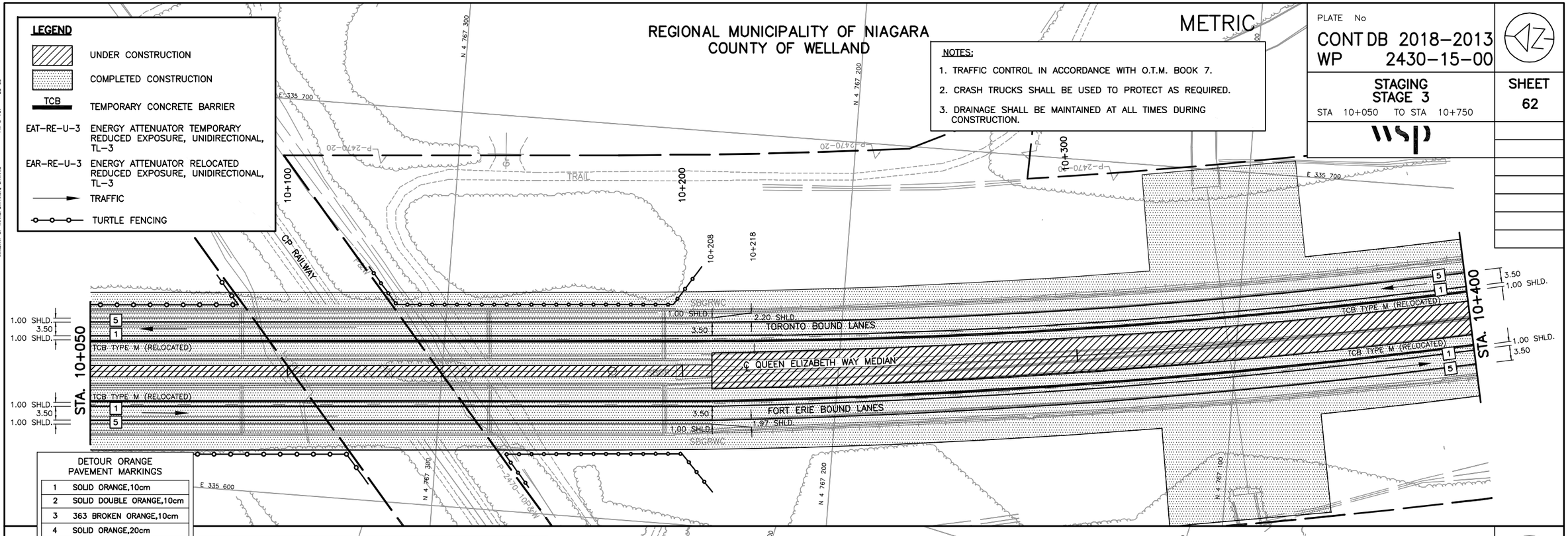
REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATED REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

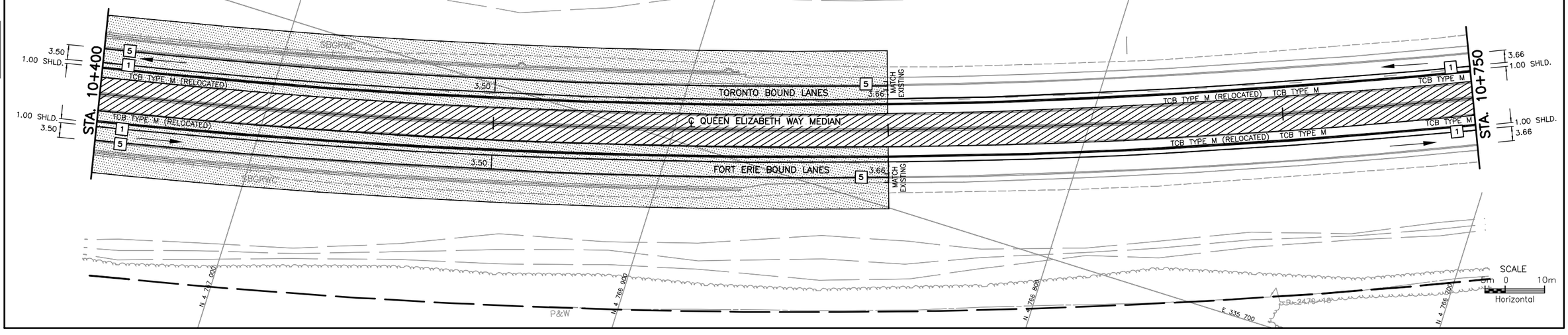


DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S23.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 09:22:46 Revised
REVISED BY=B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 10+750 TO STA 11+450

SHEET
63

wsp

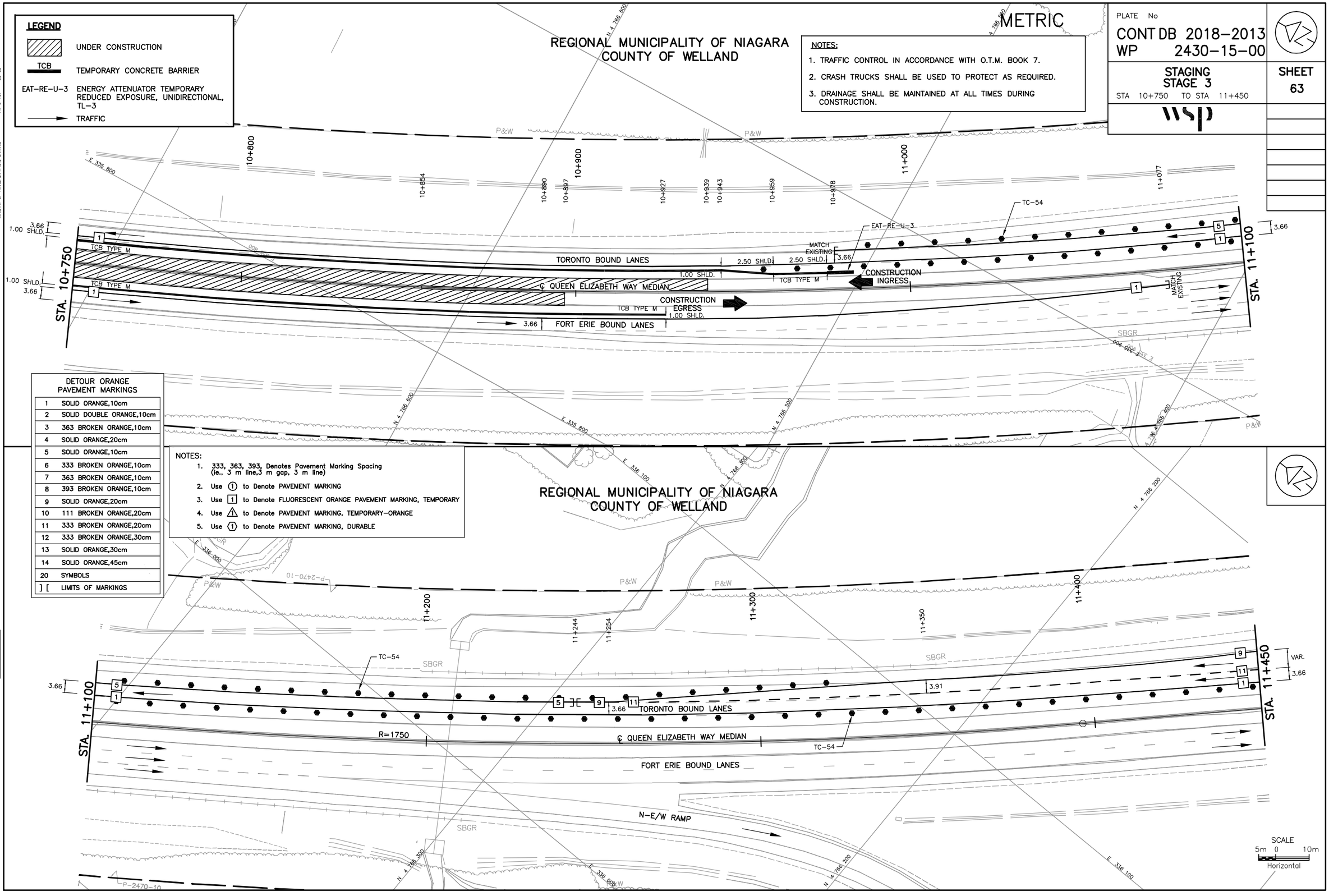
LEGEND

- UNDER CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAT-RE-U-3 — ENERGY ATTENUATOR TEMPORARY REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-017005S6.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 09:45:10 Revised
REVISED BY-B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 11+450 TO STA 12+150

SHEET
64

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

STA. 12+150

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

E-N RAMP

E-S RAMP

W-N RAMP

W-S RAMP

S-E/W RAMP

LYONS CREEK ROAD

LYONS CREEK

VAR.
3.66

MATCH EXISTING

4.75

TC-54

ASPH

550 CSP

P&W

P-2470-10

P-2470-61

P-2470-60

P-2470-03

BM PAINTED DOT ON NE CORN BRIDGE OVER LYONS CREEK WF 714-93-00

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S37.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 09:56:35
REVISED BY-B.J.M.
Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 12+150 TO STA 12+850

SHEET
65

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

TEE CREEK

STA. 12+150

STA. 12+500

MATCH EXISTING

4.75

R=2000

4.90

3.82

3.82

3.66

3.66

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

TC-54

12+168 12+200 12+242 12+300 12+315 12+400 12+415 12+448

P-2470-22 P-2470-138 P-2470-03

300 CSP

SBGR SBGRWC CB DD SIGN HCP

N 4 765 800 N 4 765 500 N 4 765 400 N 4 765 300 N 4 765 200

E 336 700 E 336 800 E 337 100

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

1300 x 42.80 CO

24.30

P-2470-138 P-2470-03

12+525 12+600 12+635 12+700 12+800 12+825

STA. 12+500

STA. 12+850

VAR.

3.66

3.66

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

TC-54

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S38.DWG MODIFIED: 18/10/24 10:01:40 Revised
DRAWN BY: G. DEAN REVISED BY: B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 3
STA 12+850 TO STA 13+572

SHEET
66

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 12+850

STA. 13+200

VAR.
3.66

TC-54

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

MATCH EXISTING

P-2470-0

P-2470-03

P-2470-135

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S39.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/07/05 14:27:34 Revised
REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

SHEET 67

STAGING
WINTER SHUTDOWN-STAGE 3
STA 18+200 TO STA 18+900

wsp

LEGEND

TRAFFIC

ANS (PVMS)
QEW FORT ERIE
REDUCED
TO 1 LANE

AWS (PVMS)
McLEOD RD TO
LYONS CREEK RD
UNTIL MMM DD

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

NOTES:
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

18+000 18+200 18+300 18+400 18+500 18+511

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

STA. 18+550

MATCH EXISTING

3.66
3.66

E 335 800

ANS (PVMS)/AWS (PVMS)

N 4 770 800 N 4 770 700 N 4 770 600

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

18+600 18+700 18+800

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

STA. 18+550 STA. 18+900

3.66
3.66

E 335 800 E 335 700

N 4 770 500 N 4 770 400 N 4 770 300 N 4 770 200

MATCH EXISTING

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S57.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 10:27:26 Revised
REVISED BY=B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 18+900 TO STA 19+600

SHEET 68

wsp

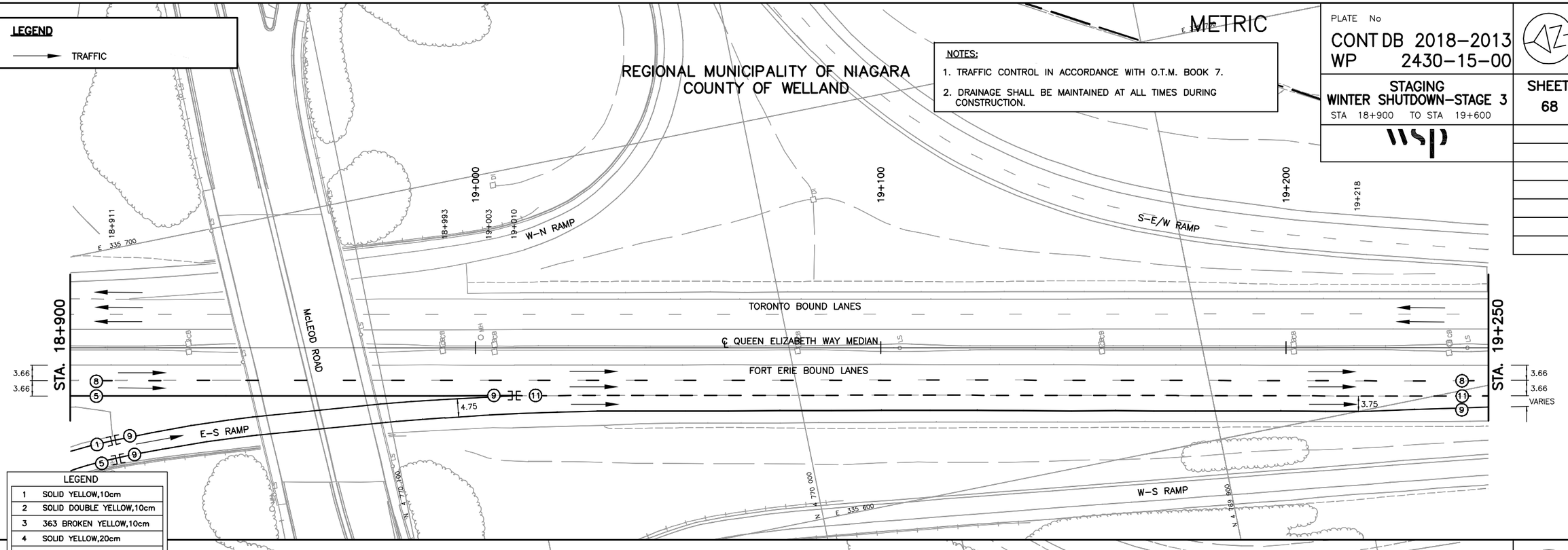
LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

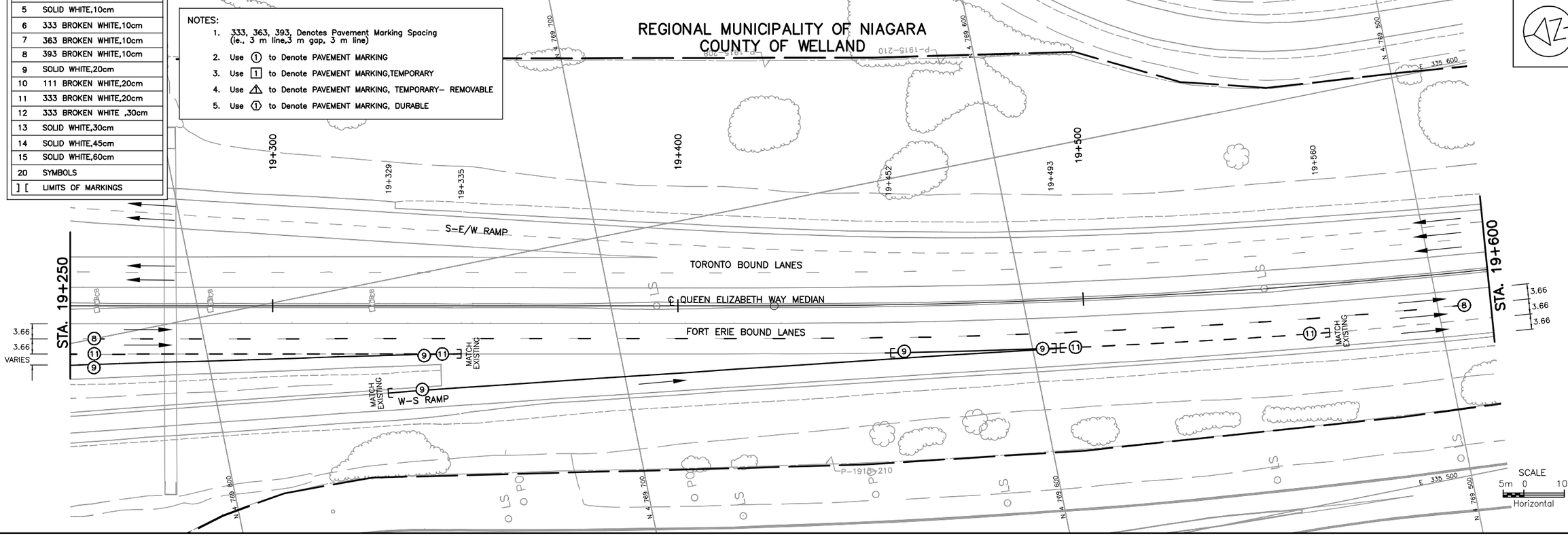


LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/10/24 10:41:02 Revised
REVISED BY-B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 19+600 TO STA 20+200

SHEET 69

wsp

LEGEND

COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

N 4 769 400 | N 4 769 300 | N 4 769 200

E 335 600 | E 335 500

P-1915-210 | P-1915-36

19+700 | 19+800 | 19+809 | 19+900

STA. 19+600

STA. 19+950

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

3.66
3.66
3.66

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use ① to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓓ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

N 4 769 000 | N 4 768 900 | N 4 768 800

E 335 600 | E 335 500

P-1915-210 | P-1915-36

20+000 | 20+100 | 20+105 | 20+141 | 20+200

STA. 19+950

STA. 20+300

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

3.66
3.66
3.66
3.66

MONTROSE ROAD

SBGR

CLF

ASPH

HdSV

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/07/05 16:13:18 Revised
REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 20+300 TO STA 21+000

SHEET 70

wsp

LEGEND

COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

E 335 600

20+354 20+400 20+500 20+600

CLF P-1915-36

EXISTING ATMS FVMS

20+644

SBGR

STA. 20+300

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 20+650

3.66

MONTROSE ROAD

N 4 768 700 N 4 768 600 N 4 768 500

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

E 335 600

20+674 20+700 20+800 20+900

CLF P-1915-19

20+944

STA. 20+650

FORT ERIE BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

TORONTO BOUND LANES

STA. 21+000

3.66

20+707 20+747

MONTROSE ROAD

N 4 768 400 N 4 768 300 N 4 768 200 N 4 768 100

E 335 500

SCALE
5m 0 10m
Horizontal

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S60.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/07/05 16:21:22 Revised
REVISED BY: G. DEAN
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 21+000 TO STA 10+050

SHEET 71

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATION REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND WINTER SHUTDOWN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 21+000

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 21+350

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

WELLAND RIVER

CONSTRUCTION EGRESS

CONSTRUCTION INGRESS

TCB TYPE M (RELOCATED)

EAR-RE-U-3

RWIS (RELOCATED) (NOTE 3)

EXISTING FAST PUMP HOUSE (NOTE 3)

HOT STA. 21+650.043 (BACK) = HOT STA. 9+999.817 (AHEAD)

STA. 10+050

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S61.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/07/06 10:46:03 Revised
REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 10+050 TO STA 10+750

SHEET 72

wsp

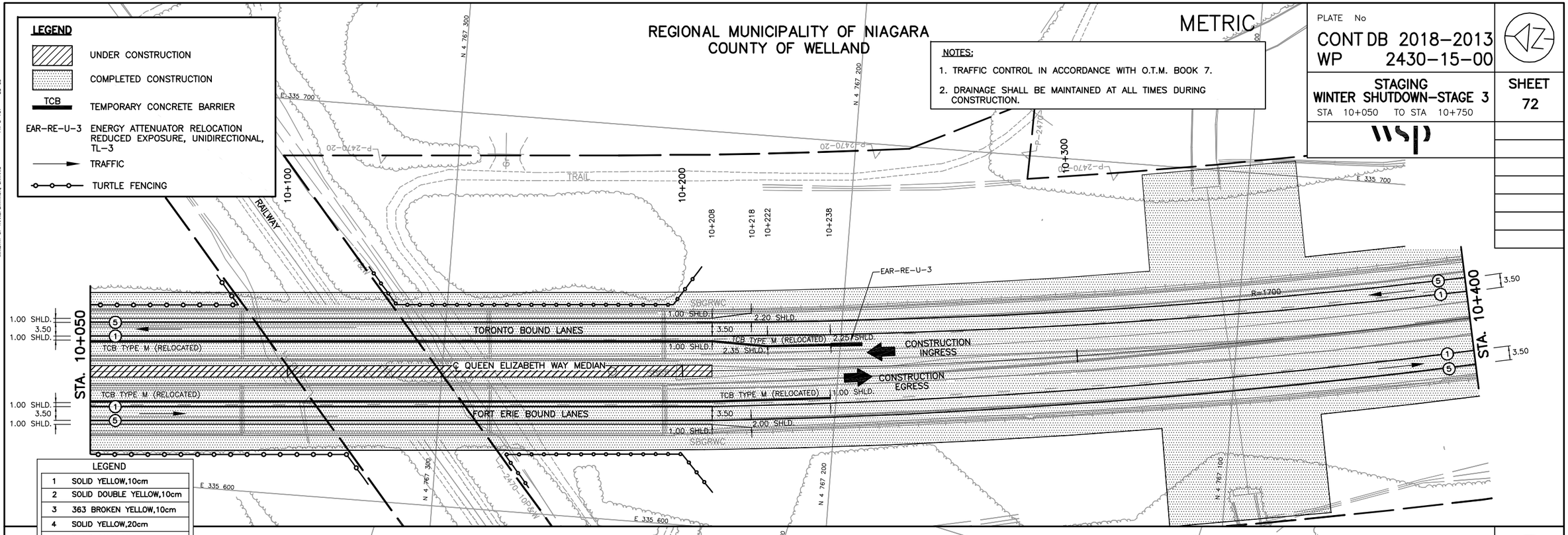
LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TCB — TEMPORARY CONCRETE BARRIER
- EAR-RE-U-3 — ENERGY ATTENUATOR RELOCATION REDUCED EXPOSURE, UNIDIRECTIONAL, TL-3
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700562.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/07/06 11:54:49 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 10+750 TO STA 11+450

SHEET 73

wsp

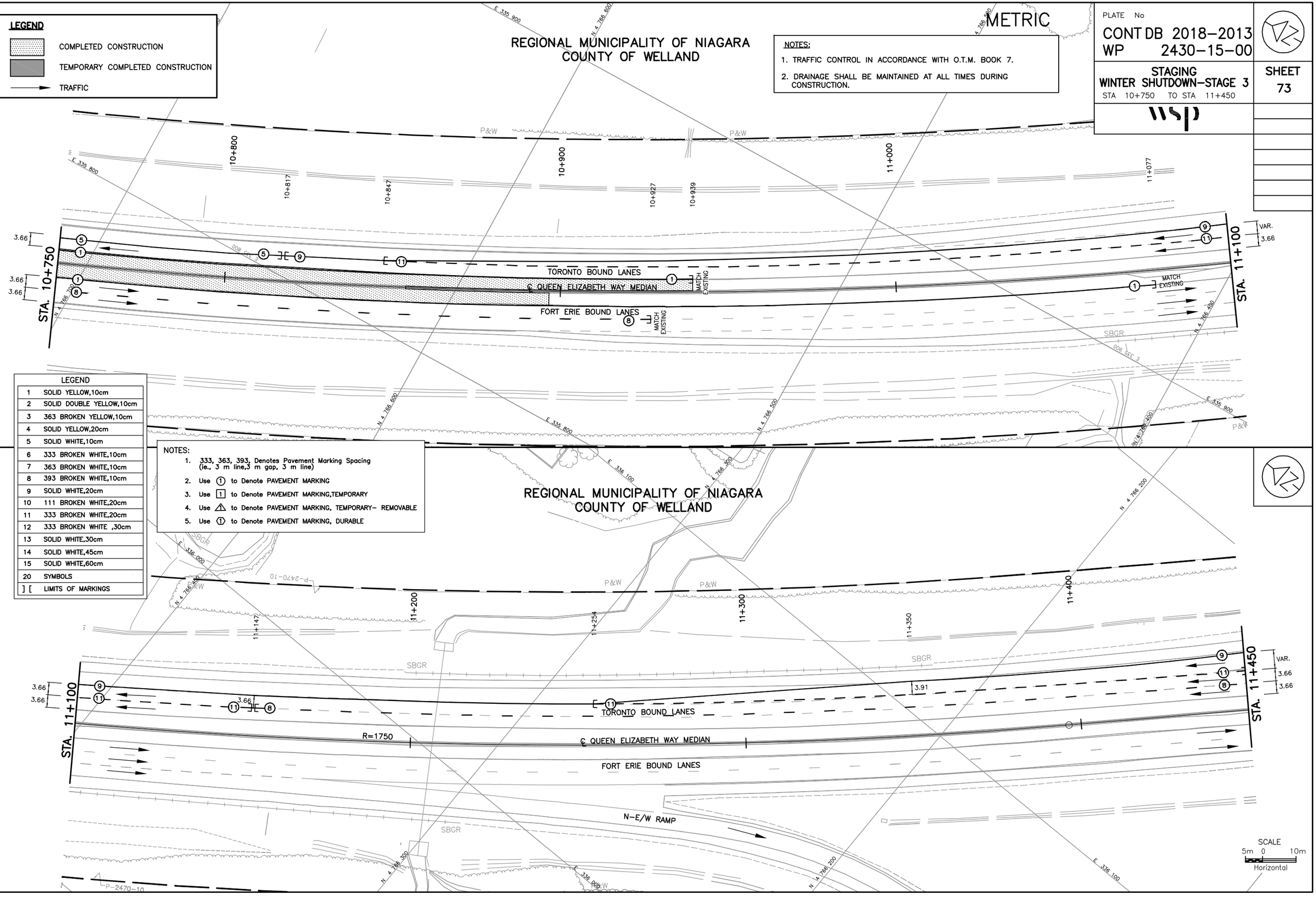
LEGEND

- COMPLETED CONSTRUCTION
- TEMPORARY COMPLETED CONSTRUCTION
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY- REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700563.DWG REVISED BY:-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/07/06 12:24:57 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 11+450 TO STA 12+150

SHEET 74

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

E-N RAMP

E-S RAMP

LYONS CREEK ROAD

11+451 11+465 11+500 11+573 11+600 11+700 11+720 11+747 11+756

3.66 3.66 4.75

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+800

STA. 12+150

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

W-N RAMP

W-S RAMP

S-E/W RAMP

LYONS CREEK

BM PAINTED DOT ON NE CORN BRIDGE OVER LYONS CREEK WF 714-93-00

11+900 12+000 12+100

3.66 3.66

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S64.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/07/06 12:34:23 Revised
REVISED BY: G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 12+150 TO STA 12+850

SHEET 75

wsp

LEGEND

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

TEE CREEK

P-2470-22, P-2470-138, P-2470-03

12+200, 12+168, 12+179, 12+210, 12+300, 12+400

300 CSP

SIGN

MATCH EXISTING

STA. 12+150

3.66
3.66

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 12+500

SBGR, SBGRWC, DD, CB, HCP, SIGN, RAIL

N 4 765 800, E 336 800, N 4 765 500, E 336 700, N 4 765 400, E 336 600

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

1300 x 42.80 CO

P-2470-138, P-2470-03

12+525, 12+600, 12+700, 12+800

STA. 12+500

3.66
3.66

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 12+850

SBGR, SIGN, HCP, TSP, ⚠1, CB

N 4 765 300, E 337 100, N 4 765 200, E 337 000, N 4 765 000, E 336 900

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=..\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S65.DWG REVISED BY:- G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/07/17 15:46:34 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
WINTER SHUTDOWN-STAGE 3
STA 12+850 TO STA 13+572

SHEET 76

wsp

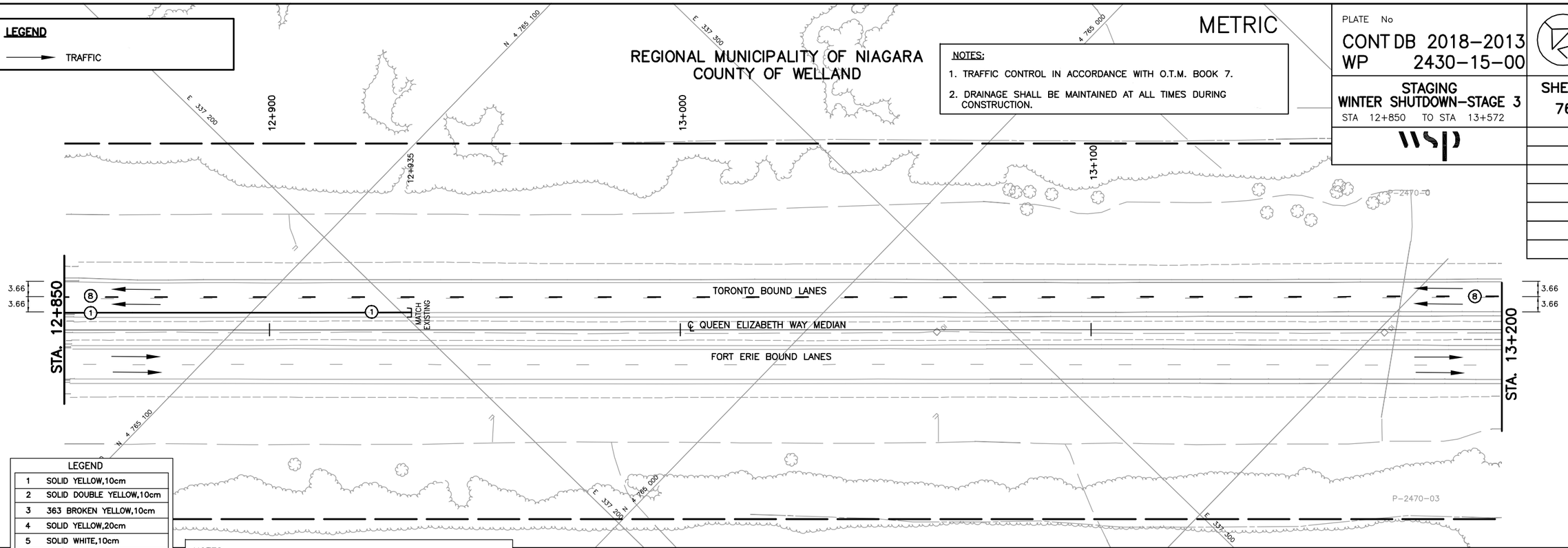
LEGEND

TRAFFIC

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

NOTES:

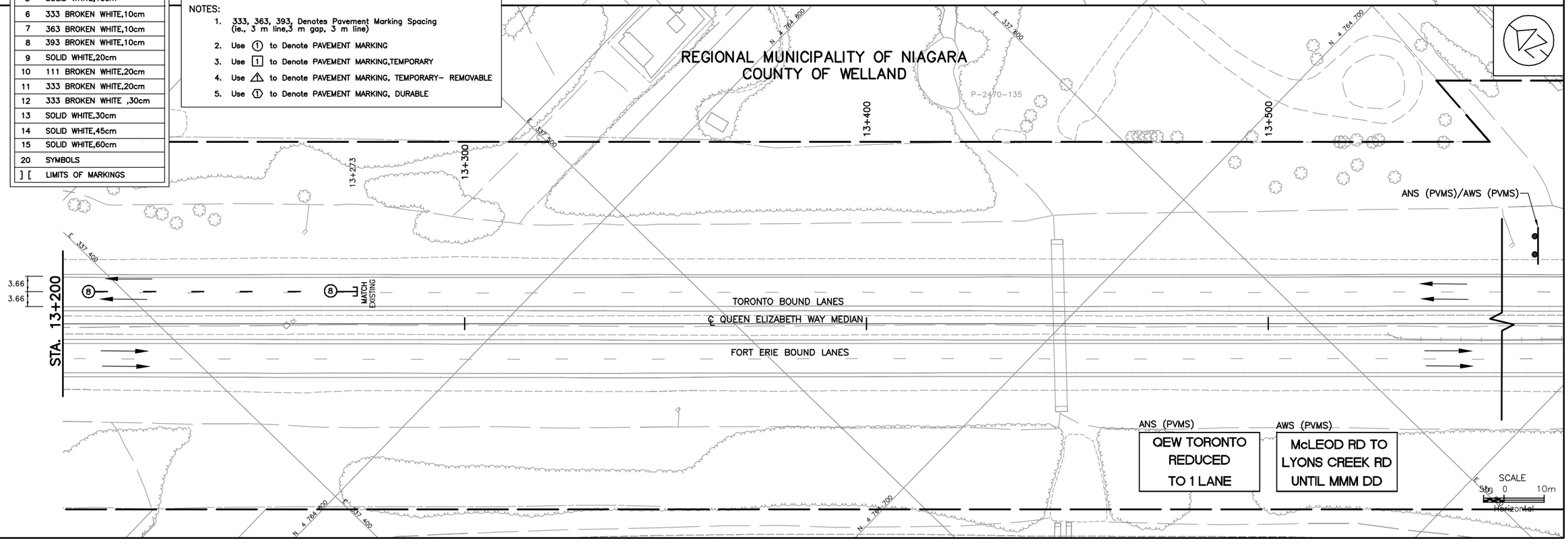
1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=S:\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN
MODIFIED: 18/10/24 11:18:15 Revised
REVISED BY-B.J.M.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 4
STA 20+286 TO STA 21+000

SHEET
77

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. REINSTATE SHOULDER AND RUMBLE STRIP.
5. MILL 40mm, PAD AND PAVE 40mm SUPERPAVE 12.5 FC2 FULL WIDTH AT END OF STAGE 4 AS PER TYPICAL SECTION DETAILS.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

20+400 20+500 20+529 20+600

E 335 600

CLF P-1915-36

NOTE 5 SBGR

CONSTRUCTION EGRESS

TC-54

NOTE 4 EXISTING ATMS FVMS

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

CONSTRUCTION INGRESS

FORT ERIE BOUND LANES

8

STA. 20+650

20+301 20+354 20+601

N 4 768 700 N 4 768 600 N 4 768 500

MONTROSE ROAD

DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

20+700 20+707 20+747 20+800 20+900

E 335 600

CLF P-1915-19

NOTE 5 SBGR

TC-54

NOTE 4

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 20+650

STA. 21+000

20+944

N 4 768 400 N 4 768 300 N 4 768 200 N 4 768 100

MONTROSE ROAD

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700541.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 11:29:43 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 4
STA 21+000 TO STA 10+050

SHEET
78

wsp

LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT RWIS STATION AND FAST PUMP HOUSE AT ALL TIMES DURING CONSTRUCTION AND WINTER SHUTDOWN.
5. REINSTATE SHOULDER AND RUMBLE STRIP.
6. MILL 40mm, PAD AND PAVE 40mm SUPERPAVE 12.5 FC2 FULL WIDTH AT END OF STAGE 4 AS PER TYPICAL SECTION DETAILS.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 21+000

STA. 21+350

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

NOTE 5 — NOTE 6 — TC-54

3.66 — 3.50

DETOUR ORANGE PAVEMENT MARKINGS	
1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

WELLAND RIVER

STA. 21+350

STA. 10+050

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

TC-54

RWIS (RELOCATED) (NOTE 4)

EXISTING FAST PUMP HOUSE (NOTE 4)

HOT STA. 21+650.043 (BACK) = HOT STA. 9+999.817 (AHEAD)

SCALE
5m 0 10m
Horizontal

PR-D-707 88-05
MINISTRY OF TRANSPORTATION, ONTARIO

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700542.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/09 14:11:35 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 4
STA 10+050 TO STA 10+750

SHEET
79

wsp

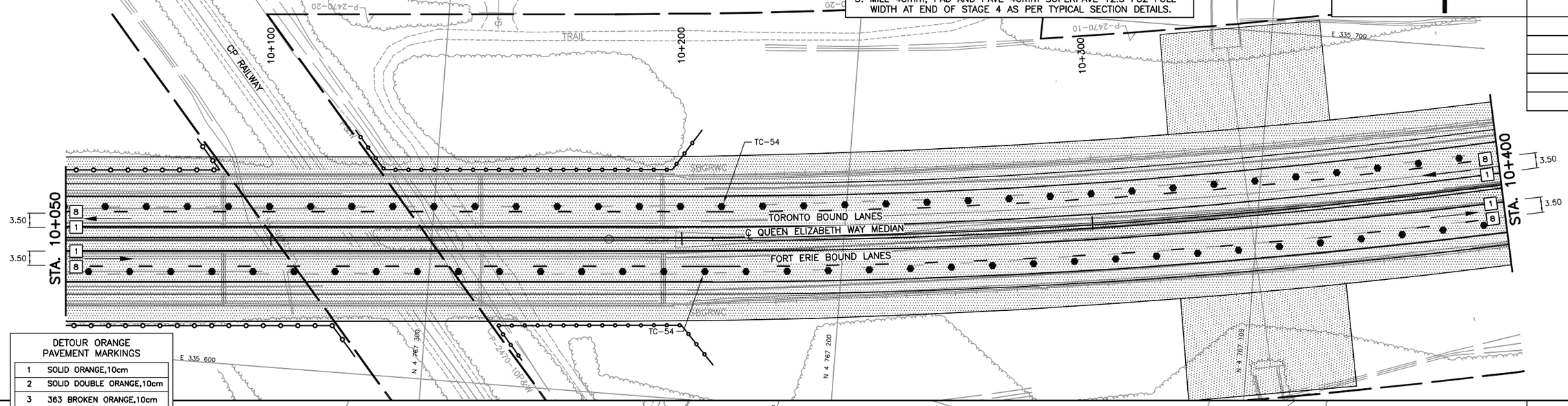
LEGEND

- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. REINSTATE SHOULDER AND RUMBLE STRIP.
5. MILL 40mm, PAD AND PAVE 40mm SUPERPAVE 12.5 FC2 FULL WIDTH AT END OF STAGE 4 AS PER TYPICAL SECTION DETAILS.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



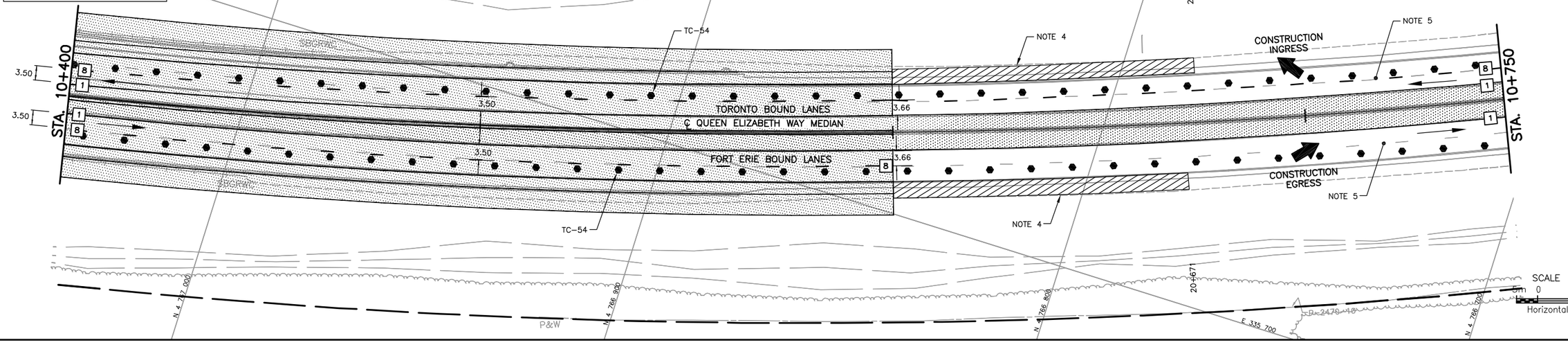
DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY–ORANGE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05
FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700543.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/09 14:17:28 Revised
REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

STAGING
STAGE 4
STA 10+750 TO STA 11+450

SHEET
80

LEGEND

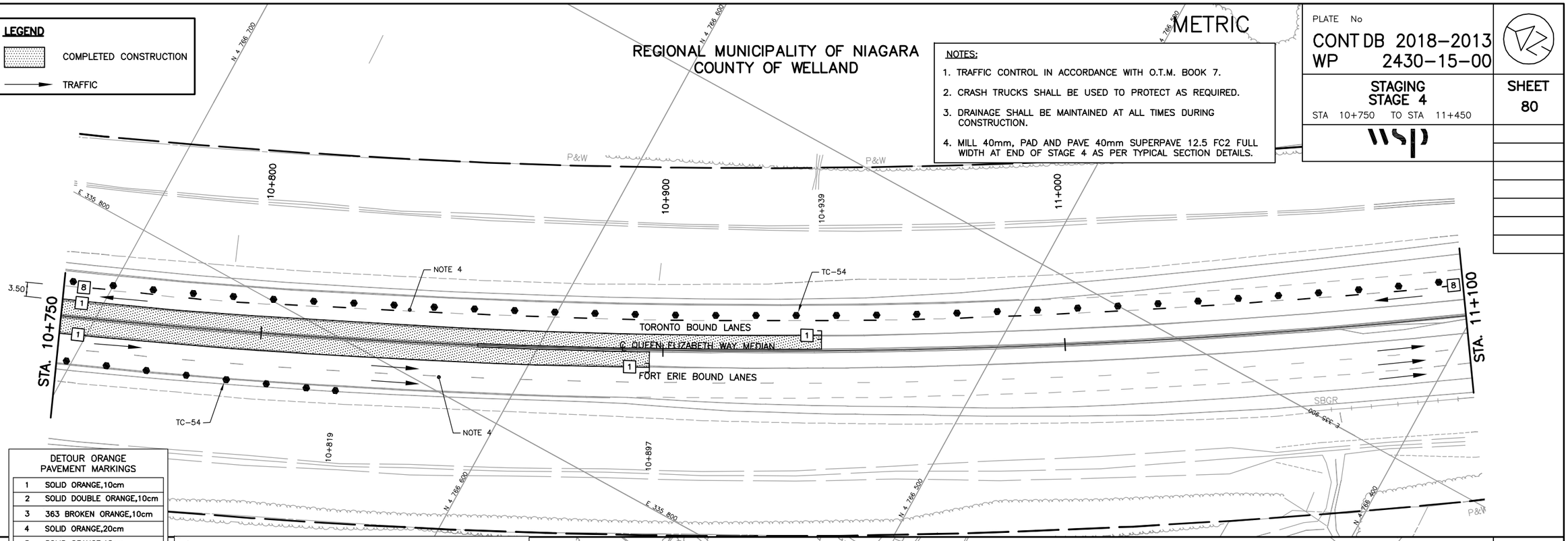
COMPLETED CONSTRUCTION

TRAFFIC

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. MILL 40mm, PAD AND PAVE 40mm SUPERPAVE 12.5 FC2 FULL WIDTH AT END OF STAGE 4 AS PER TYPICAL SECTION DETAILS.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



DETOUR ORANGE PAVEMENT MARKINGS

1	SOLID ORANGE,10cm
2	SOLID DOUBLE ORANGE,10cm
3	363 BROKEN ORANGE,10cm
4	SOLID ORANGE,20cm
5	SOLID ORANGE,10cm
6	333 BROKEN ORANGE,10cm
7	363 BROKEN ORANGE,10cm
8	393 BROKEN ORANGE,10cm
9	SOLID ORANGE,20cm
10	111 BROKEN ORANGE,20cm
11	333 BROKEN ORANGE,20cm
12	333 BROKEN ORANGE,30cm
13	SOLID ORANGE,30cm
14	SOLID ORANGE,45cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote FLUORESCENT ORANGE PAVEMENT MARKING, TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY-ORANGE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 5 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S44.DWG MODIFIED: 18/10/24 11:33:52 Revised
DRAWN BY: G. DEAN REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

USSHERS CREEK CULVERT STAGING
STA 13+388 TO STA 14+950

SHEET 81

LEGEND

- UNDER CONSTRUCTION
- TRAFFIC
- TURTLE FENCING

NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
4. TURTLE FENCING SHALL BE RETAINED AT END OF CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

P-2470-0003

N 4 764 100
E 338 300
N 4 764 000
E 338 500
N 4 763 900
E 338 300
N 4 763 800
E 338 500
E 338 600
N 4 763 700
E 338 400
N 4 763 600
E 338 500

13+888
14+300
14+400
14+500
14+388
14+600
14+700
14+708
14+800
14+843
14+858
14+875
14+881
14+898
14+900
14+913
14+688
14+950

STA. 14+600

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

ASPH
SBGR
P&W
TC-54
ANS AWS

USSHERS CREEK

CONSTRUCTION INGRESS/EGRESS

STA. 14+950

ANS	AWS	AWS
QEW Fort Erie	QEW Fort Erie	
Right Lane to be Closed	Right Lane Closed	OR All Lanes Open
At Usshers Ck	At Usshers Ck	
Starts MMM DD	Until MMM DD	

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700S45.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/24 11:54:57
REVISED BY: G. DEAN
Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

USSHERS CREEK CULVERT STAGING
STA 14+950 TO STA 15+650

SHEET 82

wsp

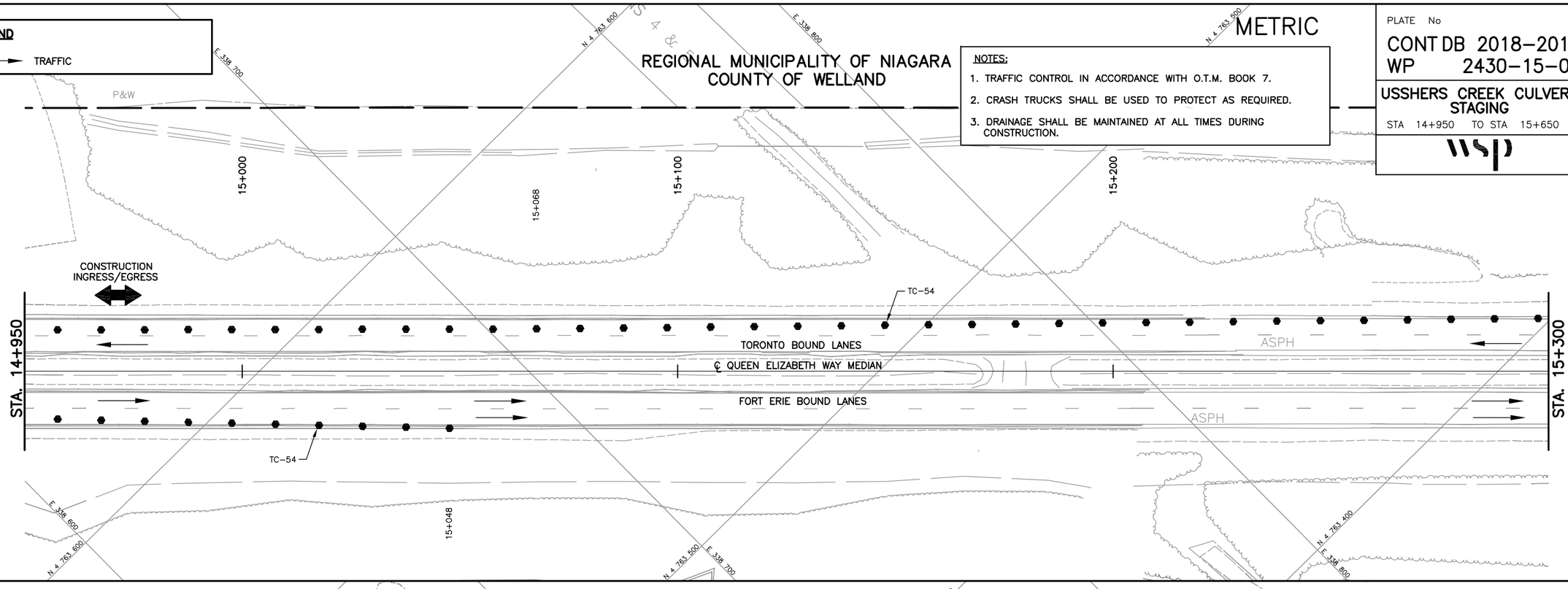
LEGEND

→ TRAFFIC

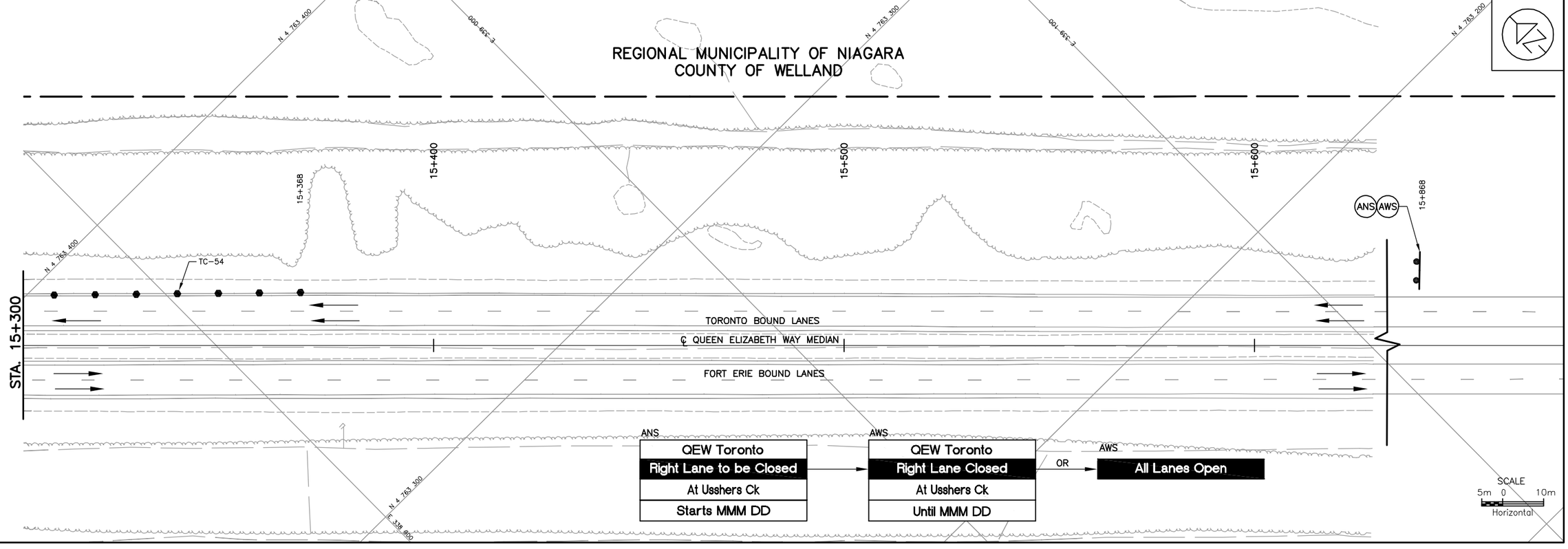
NOTES:

1. TRAFFIC CONTROL IN ACCORDANCE WITH O.T.M. BOOK 7.
2. CRASH TRUCKS SHALL BE USED TO PROTECT AS REQUIRED.
3. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



ANS		AWS		AWS
QEW Toronto	→	QEW Toronto	OR	All Lanes Open
Right Lane to be Closed		Right Lane Closed		
At Usshers Ck		At Usshers Ck		
Starts MMM DD		Until MMM DD		

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION--\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700S46.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/24 11:50/03 Revised

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

REMOVALS
STA 19+950 TO STA 20+300
Survey _____ Revised _____

SHEET 83

wsp

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LIMIT OF CONTRACT
STA. 16+800

LIMIT OF REMOVALS
STA. 20+108

OAKWOOD DRIVE

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 20+300

MONTROSE ROAD

20+000
20+100
20+141
20+200
20+250

N 4 769 100
N 4 769 000
N 4 768 900
N 4 768 800

E 335 600
E 335 500

P-1915-210
P-1915-36

CLF
SBGR
ASPH
WF
P&W
HYD
PO

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700R01.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/04 10:33:55 Revised

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

REMOVALS
STA 20+300 TO STA 20+650
Survey Revised

SHEET 84

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

NOTES:
1. INCLUDES TEMPORARY MEDIAN CROSSOVER REMOVAL.

OAKWOOD DRIVE

MONTROSE ROAD

STA. 20+300

STA. 20+650

20+303

20+400

20+500

20+516

20+550

20+600

NOTE 1

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

CONC. TALL WALL

CONC. TALL WALL

N 4 768 800

N 4 768 700

N 4 768 600

N 4 768 500

E 335 600

E 335 500

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700RD2.DWG MODIFIED: 18/10/04 10:35:24 Revised
DRAWN BY: G. DEAN REVISED BY=G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

REMOVALS
STA 20+650 TO STA 21+000
Survey _____ Revised _____

SHEET
85

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

OAKWOOD DRIVE

MONTROSE ROAD

BLACKBURN PARKWAY

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 20+650

STA. 21+000

20+700 20+800 20+900 20+950

20+722 20+723 20+731 20+733

N 4 768 400 N 4 768 300 N 4 768 200 N 4 768 100

E 335 600 E 335 500

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700R03.DWG MODIFIED: 18/10/04 10:36:01 Revised
DRAWN BY: G. DEAN REVISED BY: G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

REMOVALS
STA 21+000 TO STA 21+350
Survey _____ Revised _____

wsp

SHEET
86

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

MONTROSE ROAD

CHIPPAWA CREEK ROAD

STA. 21+000

STA. 21+350

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

CONC. TALL WALL

21+100
21+200
21+300
21+194
21+294
21+335

N 4 768 100
N 4 768 000
N 4 767 900
N 4 767 800

E 335 700
E 335 600
E 335 500

P-1915-210
P-1915-36

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700R04.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/09 14:24:17 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

REMOVALS
STA 21+350 TO STA 10+050
Survey _____ Revised _____

SHEET 87

wsp

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

NOTE:
1. SEWER LOCATIONS TO BE VERIFIED DURING DETAIL DESIGN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LOT 211

OAKWOOD DRIVE

STA. 21+350

STA. 10+050

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

CONC. TALL WALL

EXISTING BRIDGE TO BE REMOVED (SEE STRUCTURAL DRAWINGS)

WELLAND RIVER

REMOVAL OF CONCRETE

HOT STA. 21+650.043 (BACK) = HOT STA. 9+999.817 (AHEAD)

MONTROSE ROAD

21+387 21+400 21+475 21+500 21+520 21+540 21+550 21+552 21+600 10+000 21+363 21+370 21+426 21+542

28.30 30.90 36.66 39.70 21.36 30.60 33.00 45.00 46.00 55.00

N 4 767 700 N 4 767 608 N 4 767 500 N 4 767 400 N 4 767 300 N 4 767 600 N 4 767 500

E 335 700 E 335 600 E 335 500

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700R05.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/04 11:11:32 Revised
REVISED BY=G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

REMOVALS
STA 10+050 TO STA 10+400
Survey _____ Revised _____

SHEET 88

wsp

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

NOTE:
1. SEWER LOCATIONS TO BE VERIFIED DURING DETAIL DESIGN.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 10+050

STA. 10+400

10+100

10+103

10+200

10+300

10+168

10+220

CP RAILWAY

50.00

40.00

EXISTING BRIDGE TO BE REMOVED (SEE STRUCTURAL DRAWINGS)

EXISTING BRIDGE TO BE REMOVED (SEE STRUCTURAL DRAWINGS)

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

CONC. TALL WALL

SBGR

CC&G

CB

STM

SIGN

TRAIL

P-2470-20

P-2470-10

P-2470-11

P&W

E 335 700

E 335 600

E 335 500

N 4 767 400

N 4 767 300

N 4 767 200

N 4 767 100

ASPH

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
RR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700R06.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/10/04 11:20:19 REVISED BY=G. DEAN Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

REMOVALS
STA 10+400 TO STA 10+750
Survey _____ Revised _____

SHEET 89

wsp

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

NOTE:
1. SEWER LOCATIONS TO BE VERIFIED DURING DETAIL DESIGN.
2. INCLUDES TEMPORARY MEDIAN CROSSOVER REMOVAL.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LOT 10
CONCESSION BROKEN FRONT ON CHIPPEWA CREEK

STA. 10+400
STA. 10+750
10+500
10+530
10+560
10+600
10+700

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

CONC. TALL WALL
SBGR
SBGR SIGN
CC&G
CB
STM
P&W
NOTE 1

E 335 700
E 335 800
E 335 600
N 4 766 800
N 4 766 700
N 4 767 000

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700R07.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/04 11:22:38 Revised

METRIC

PLATE No

CONT DB 2018-2013

WP 2430-15-00

REMOVALS

STA 10+750 TO STA 11+100

Survey _____ Revised _____

SHEET 90

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

NOTES:

1. INCLUDES TEMPORARY MEDIAN CROSSOVER REMOVAL.
2. SIGN REMOVAL ONLY.

STA. 10+750

NOTE 1

CONC. TALL WALL

CONC. TALL WALL

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 11+100

10+800

10+900

11+000

10+854

10+897

10+939

P&W

SBGR

REIXINGER ROAD

GRAVEL

N 4 766 700

N 4 766 600

N 4 766 500

N 4 766 400

E 335 800

E 335 900

E 336 000

E 336 100

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700R08.DWG REVISED BY: B.J.M.
DRAWN BY: G. DEAN MODIFIED: 18/10/24 13:41:56 Revised

METRIC

PLATE No
CONT DB 2018–2013
WP 2430–15–00

REMOVALS
STA 11+567 TO STA 11+576
Survey _____ Revised _____

wsp

SHEET
91

LEGEND

- REMOVAL OF ASPHALT PAVEMENT – FULL DEPTH
- REMOVAL OF ASPHALT PAVEMENT – PARTIAL DEPTH
- REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES ON STRUCTURES
- CLEARING AND GRUBBING

℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES
ASPH
E-S RAMP
11+500
11+600
N 4 766 100
E 336 200
N 4 765 000
E 336 100
BCU
LIMIT OF CONTRACT
STA. 17+900
LIMIT OF REMOVALS
STA. 11+576
N 4 765 900
E 338 200
E 338 100
N 4 765 800
E 336 000
N 4 766 000
N 4 766 100
E 336 000
N-E/W RAMP
E-S RAMP
N-E RAMP
N-W RAMP
LYONS CREEK ROAD
W-S RAMP
11+570
11+576
CCATC
P-2470-60
REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700R09.DWG REVISED BY- B.J.M.
DRAWN BY: G. DEAN MODIFIED: 18/10/24 13:52:08 Revised

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 19+950 TO STA 20+300
Survey _____ Revised _____

SHEET 92

wsp

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LIMIT OF CONTRACT
STA. 16+800

LIMIT OF CONSTRUCTION
STA. 20+108

OAKWOOD DRIVE

MONTROSE ROAD

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MATCH EXISTING

3.70 SHLD. | 3.66 | 3.66 | 1.00 FPS. | 1.00 FPS. | 3.00 FPS. | 3.90 SHLD. | 3.66 | 3.66 | 3.00 FPS. | VAR. SHLD. | 3.66 | 3.66 | 3.00 FPS. | VAR. SHLD.

1 2 3 4 5

STA. 20+300

20+000 | 20+100 | 20+141 | 20+200 | 20+216 | 20+102 | 20+208

E 335 600 | E 335 500

N 4 769 100 | N 4 769 000 | N 4 768 900 | N 4 768 800

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700N01.DWG MODIFIED: 18/10/05 09:35:51 Revised
DRAWN BY: G. DEAN REVISED BY=G. DEAN

METRIC

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

PLATE No
CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 20+300 TO STA 20+650
Survey _____ Revised _____

wsp

SHEET
93

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

N 4 768 900 N 4 768 700 N 4 768 600 N 4 768 500

E 335 600 E 335 500

OAKWOOD DRIVE

MONTROSE ROAD

STA. 20+300 STA. 20+650

20+303 20+400 20+470 20+482 20+500 20+572 20+584 20+600 20+603 20+615 20+335 20+347

3.00 FPS. 3.66 3.66 VAR. SHLD. 3.60 SHLD. 3.90 SHLD. 3.66 3.66 3.00 FPS.

1.50 PPS.

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN MTOD 911.132 (TYPE TW-1)

FORT ERIE BOUND LANES

3.70 SHLD.

CLF SBGR ASPH GT WF P&W M&D P-1915-36

6 7 8 9 10 11 12 13 14

SCALE
5m 0 10m
Horizontal

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N02.DWG MODIFIED: 18/10/05 09:46:45 Revised
DRAWN BY: G. DEAN REVISED BY-G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 20+650 TO STA 21+000
Survey _____ Revised _____

wsp

SHEET 94

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

NOTES:

1. ATTACH OPSD 972.130 TO EXISTING CHAIN-LINK FENCE.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

MONTROSE ROAD

BLACKBURN PARKWAY

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 20+650

STA. 21+000

3.00 FPS.
3.66
3.66
3.70 SHLD.
3.90 SHLD.
3.66
3.66
3.00 FPS.
VAR. FPS.

1.50 PPS.

SBGR

OPSD 972.130

NOTE 1

20+700
20+722
20+723
20+731
20+733
20+770
20+782
20+800
20+846
20+858
20+867
20+879
20+900
20+976
20+988
20+990

E 335 600
E 335 500
N 4 768 400
N 4 768 300
N 4 768 200
N 4 768 100

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION-I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N03.DWG MODIFIED: 18/10/05 09:52:43 Revised
DRAWN BY: G. DEAN REVISED BY-G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 21+000 TO STA 21+350
Survey _____ Revised _____

SHEET
95A

REVISION 1
19/02/19

wsp

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

MONTROSE ROAD

CHIPPAWA CREEK ROAD

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 21+000

3.00 FPS.
1.50 PPS.
3.66
3.66
3.70 SHLD.
3.90 SHLD.
3.66
3.66
VAR. FPS.
SBGR
CLF
21
22
23
24
25
26
27
28
500
3.66
3.66
3.70 SHLD.
3.80 SHLD.
3.66
3.66
3.75
3.75
3.75
2.50 SHLD.
2.50 SHLD.
MTOD 911.132 (TYPE TW-1)
1.50 PPS.
3.00 FPS.
5.60 SHLD.
MATCH EXISTING
BREAK INTO EXISTING CATCH BASIN
RIP RAP 2.0x18.2m
RIP RAP 2.0x3.0m
STEEL BEAM ENERGY ATTENUATING TERMINAL
SBGRWC

STA. 21+350

21+002
21+100
21+110
21+122
21+194
21+200
21+294
21+300
21+313
21+325
21+338
21+340

P-1915-36
P-1915-210

E 335 700
E 335 600
E 335 500
N 4 768 100
N 4 768 000
N 4 767 900
N 4 767 800

P&W
ASPH
CLF
WF
PP
OHL
LS
AN
TH

SCALE
5m 0 10m
Horizontal

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N04.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 19/02/19 14:57:37 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 21+350 TO STA 10+050
Survey _____ Revised _____

wsp

SHEET 96A

REVISION 1
19/02/19

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- CHAIN-LINK FENCE OPSD 972.130
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

NOTE:
1. ATTACH OPSD 972.130 TO EXISTING CHAIN-LINK FENCE.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LOT 211

OAKWOOD DRIVE

MONTROSE ROAD

WELLAND RIVER

TORONTO BOUND LANES

QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 21+350

STA. 10+050

21+400

21+500

21+600

10+000

21+528

21+532

21+544

21+558

21+570

21+413

21+548

RIP RAP 2.0x18.2m

RIP RAP 2.0x3.0m

RIP RAP 2.0x3.0m

RIP RAP 2.0x27.0m

OPSD 912.235

OPSD 605.040

OPSD 605.030

OPSD 912.430

OPSD 600.030

SBGR WITH CHANNEL

2.00 BENCH

NOTE 1

MTOD 911.132 (TYPE TW-1)

29 30 31 32

300

41.50

52.50

33.90

27.10

3.00 FPS.
3.75
3.75
2.50 SHLD.
2.50 SHLD.
3.75
3.75
3.00 FPS.

HOT STA. 21+650.043 (BACK) = HOT STA. 9+999.817 (AHEAD)

P-1915-210

ASPH

SBGR

SBGRWC

N 4 767 700
N 4 767 608
N 4 767 500
N 4 767 400
N 4 767 300
N 4 767 200
N 4 767 100
N 4 767 000
N 4 766 900
N 4 766 800
N 4 766 700
N 4 766 603
N 4 766 500

E 335 700
E 335 600
E 335 500

SCALE
5m 0 10m
Horizontal

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N05.DWG
DRAWN BY: G. DEAN
MODIFIED: 19/02/19 14:56:08 Revised
REVISED BY-G. DEAN

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 10+050 TO STA 10+400
Survey Revised

wsp

SHEET
97A

REVISION 1
19/02/19

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- HIGHWAY FENCE MTOD 971.101
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

NOTE:
1. ATTACH HIGHWAY FENCE TO EXISTING POST AND WIRE FENCE.

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

E 335 700
N 4 767 400
N 4 767 300
N 4 767 200
N 4 767 100
E 335 600
E 335 500
N 4 767 000

CP RAILWAY
TRAIL
P&W
ASPH
GRAVEL

10+100
10+150
10+163
10+200
10+207
10+219
10+222
10+292
10+294
10+300
10+327
10+346
10+170
10+178
10+186
10+332

NOTE 1

0.30

P-2470-20
P-2470-19
P-2470-10
P-2470-11
P-2470-10BSW

OPSD 605.040
OPSD 605.030
OPSD 912.430
OPSD 600.030
SBGR
SBGR WITH CHANNEL
RIP RAP 2.0x13.8m
RIP RAP 2.0x3.0m
RIP RAP 2.0x24.6m

STA. 10+050
STA. 10+400

3.00 FPS.
3.75
3.75
2.50 SHLD.
2.50 SHLD.
3.75
3.75
3.00 FPS.

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

A=313.75
R=1750
MTOD 911.132 (TYPE TW-1)

33
34
300

SCALE
5m 0 10m
Horizontal

FILE LOCATION=L:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N06.DWG
DRAWN BY: G. DEAN
MODIFIED: 19/02/19 14:59:32 Revised
REVISED BY=G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 10+400 TO STA 10+750
Survey _____ Revised _____

wsp

SHEET 98A

REVISION 1 19/02/19

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- HIGHWAY FENCE MTOD 971.101
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

NOTE:
1. ATTACH HIGHWAY FENCE TO EXISTING POST AND WIRE FENCE.

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

CONCESSION BROKEN FRONT ON CHIPPEWA CREEK

LOT 10

STA. 10+400

STA. 10+750

10+408 0.30

10+500

10+540 NOTE 1 0.30

10+560 10+575 10+583 10+600 10+613

10+700

RIP RAP 2.0x3.0m

SBGR SBGRWG

3.00 FPS. 3.75 3.75 2.50 SHLD. 2.50 SHLD. 3.75 3.75 3.00 FPS.

MTOD 911.132 (TYPE TW-1)

35 36 37 38 39 40 41 42 43 44

300 300 300 500 500

STEEL BEAM ENERGY ATTENUATING TERMINAL

MATCH EXISTING

TORONTO BOUND LANES

R=1750

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

3.00 FPS. 2.00 PPS. 1.50 PPS.

3.75 3.75 2.50 SHLD. 2.50 SHLD. 3.75 3.75

3.66 3.66 3.76 SHLD. 3.94 SHLD. 3.66 3.66

2.00 PPS. 3.66 3.66 VAR. SHLD. VAR. SHLD. 3.66 3.66 1.50 PPS.

10+580 OPSD 912.235

10+520 10+550 10+562

P&W

E 335 600 E 335 700 E 335 800

N 4 767 000 N 4 766 900 N 4 766 800 N 4 766 700

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N07.DWG
DRAWN BY: G. DEAN
MODIFIED: 19/02/19 15:00:55 Revised
REVISED BY: G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 10+750 TO STA 11+100
Survey _____ Revised _____

wsp

SHEET
99

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 10+750

10+800 10+900 11+000

10+854 10+897 10+939

2.00 PPS.
3.66
3.66
VAR. SHLD.
VAR. SHLD.
3.66
3.66
1.50 PPS.

MTOD 911.132 (TYPE TW-1)
MTOD 911.132 (TYPE TW-1)
45
46
R=1750

2.00 PPS.
3.66
3.66
3.36 SHLD.
MATCH EXISTING

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

3.77 SHLD.
3.66
3.66
1.50 PPS.
MATCH EXISTING

P&W
SBGR
GRAVEL
REMINGER ROAD
PO

N 4 766 700
N 4 766 600
N 4 766 500
N 4 766 400
E 335 800
E 335 900

SCALE
5m 0 10m
Horizontal

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N08.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/10/05 11:25:14 Revised

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

NEW CONSTRUCTION
STA 10+750 TO STA 11+100
Survey _____ Revised _____

wsp

SHEET
100

LEGEND

- LIGHT DUTY SILT FENCE BARRIER OPSD 219.110
- STRAWBALE FLOW CHECK DAM OPSD 219.180
- NEW CB
- CB TO BE ADJUSTED AND/OR CLEANED OUT
- PPS. PARTIALLY PAVED SHOULDER
- FPS. FULLY PAVED SHOULDER
- HOT MIX MISCELLANEOUS

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

ASPH

E-S RAMP

11+500

11+600

N 4 766 100

E 336 100

E 336 200

N 4 765 000

LIMIT OF CONTRACT
STA. 17+900

LIMIT OF CONSTRUCTION
STA. 11+602

N 4 765 600

E 336 000

N 4 766 100

N-E/W RAMP

E-S RAMP

N-E RAMP

N-W RAMP

P 2470-60

LYONS CREEK ROAD

11+602

MATCH EXISTING

W-S RAMP

SEED AND COVER

OPSD 600.030

11+576

11+570

11+581

E 336 200

N 4 765 800

E 336 100

N 4 765 800

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION-I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700N09.DWG REVISED BY-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/20 11:46:33 Revised

METRIC

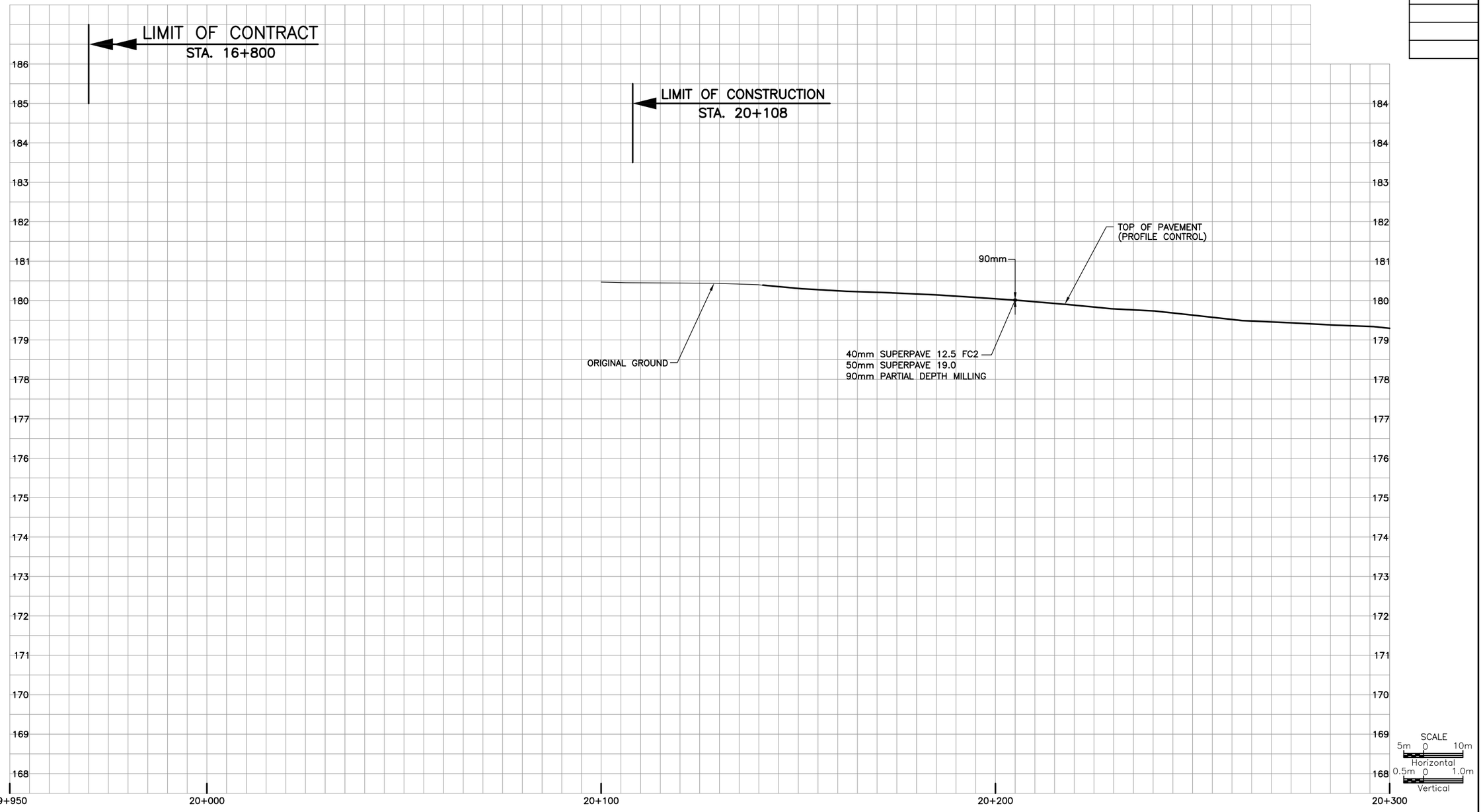
PLATE No
CONT DB 2018-2013
WP 2430-15-00

PROFILES
STA 19+950 TO STA 20+300
Survey _____ Revised _____

SHEET
101

wsp

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P09.DWG REVISED BY=G. DEAN
DRAWN BY: G.DEAN MODIFIED: 18/10/04 16:21:19 Revised

METRIC

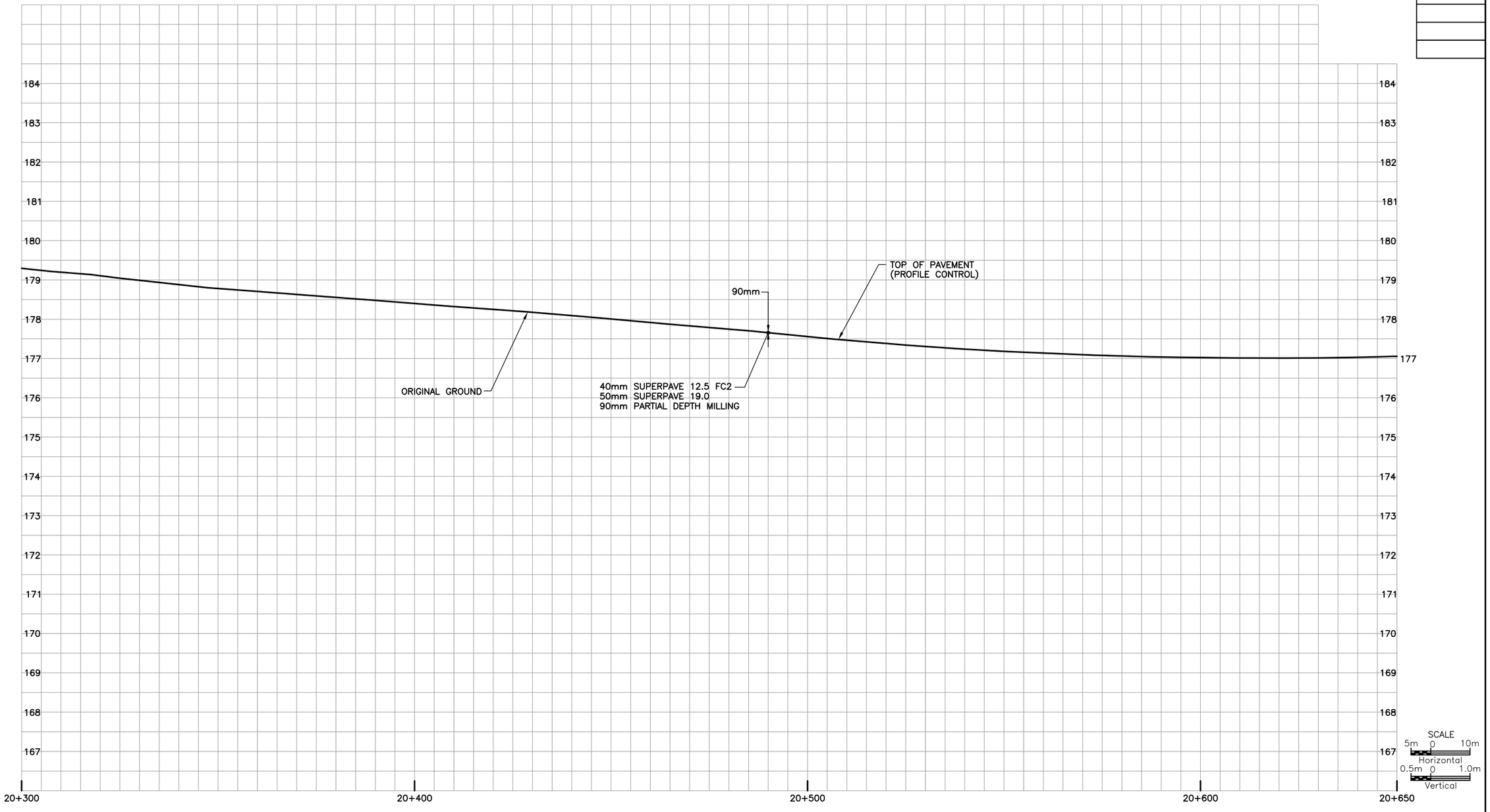
PLATE No
CONT DB 2018–2013
WP 2430–15–00

PROFILES
STA 20+300 TO STA 20+650
Survey _____ Revised _____

SHEET
102

wsp

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P10.DWG REVISED BY=G. DEAN
DRAWN BY: R.M. MODIFIED: 18/10/04 16:09:59 Revised

METRIC

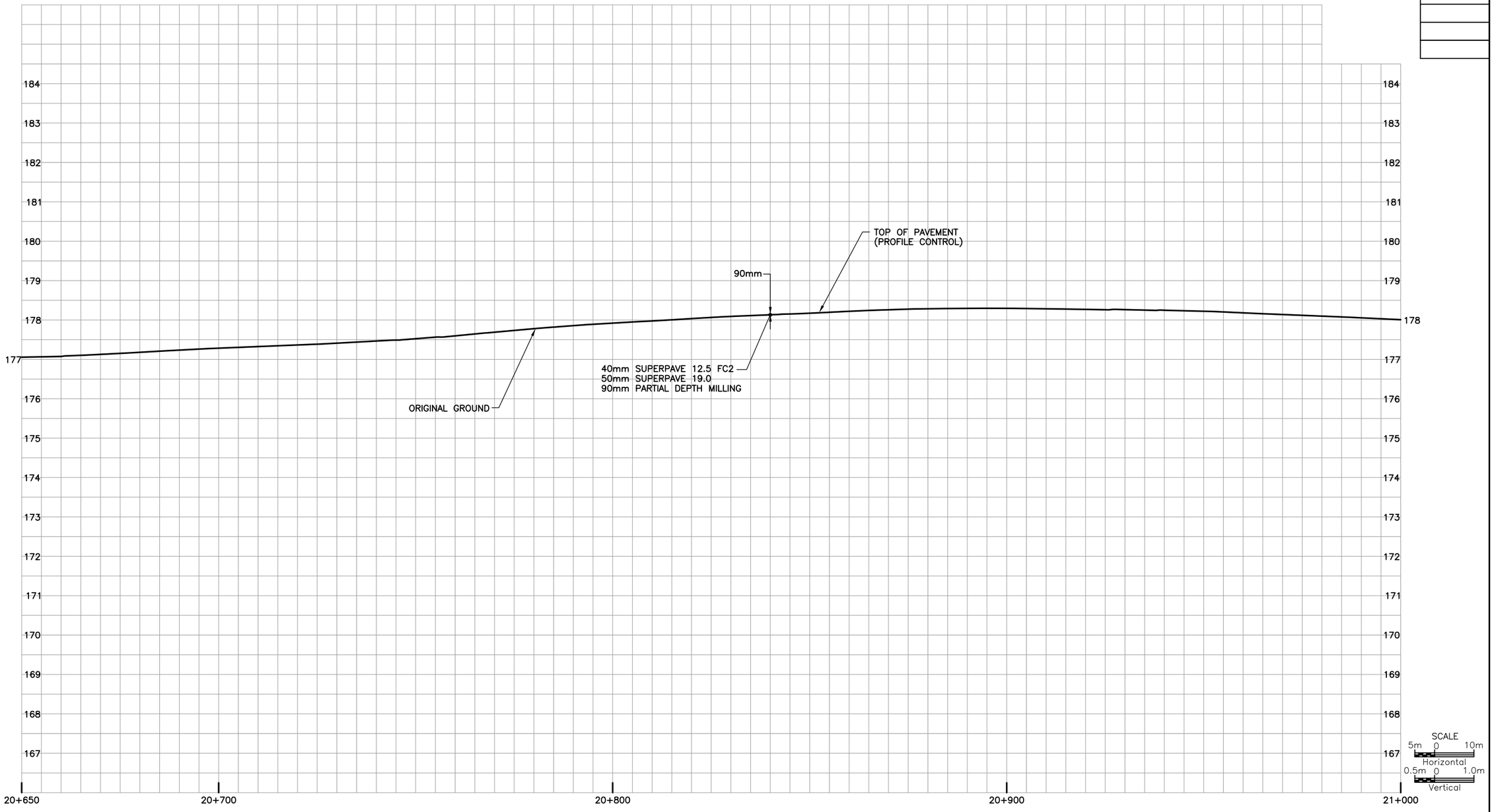
PLATE No
CONT DB 2018-2013
WP 2430-15-00

PROFILES
STA 20+650 TO STA 21+000
Survey _____ Revised _____

SHEET
103

wsp

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P11.DWG REVISED BY=G. DEAN
DRAWN BY: R.M. MODIFIED: 18/10/04 16:05:05 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

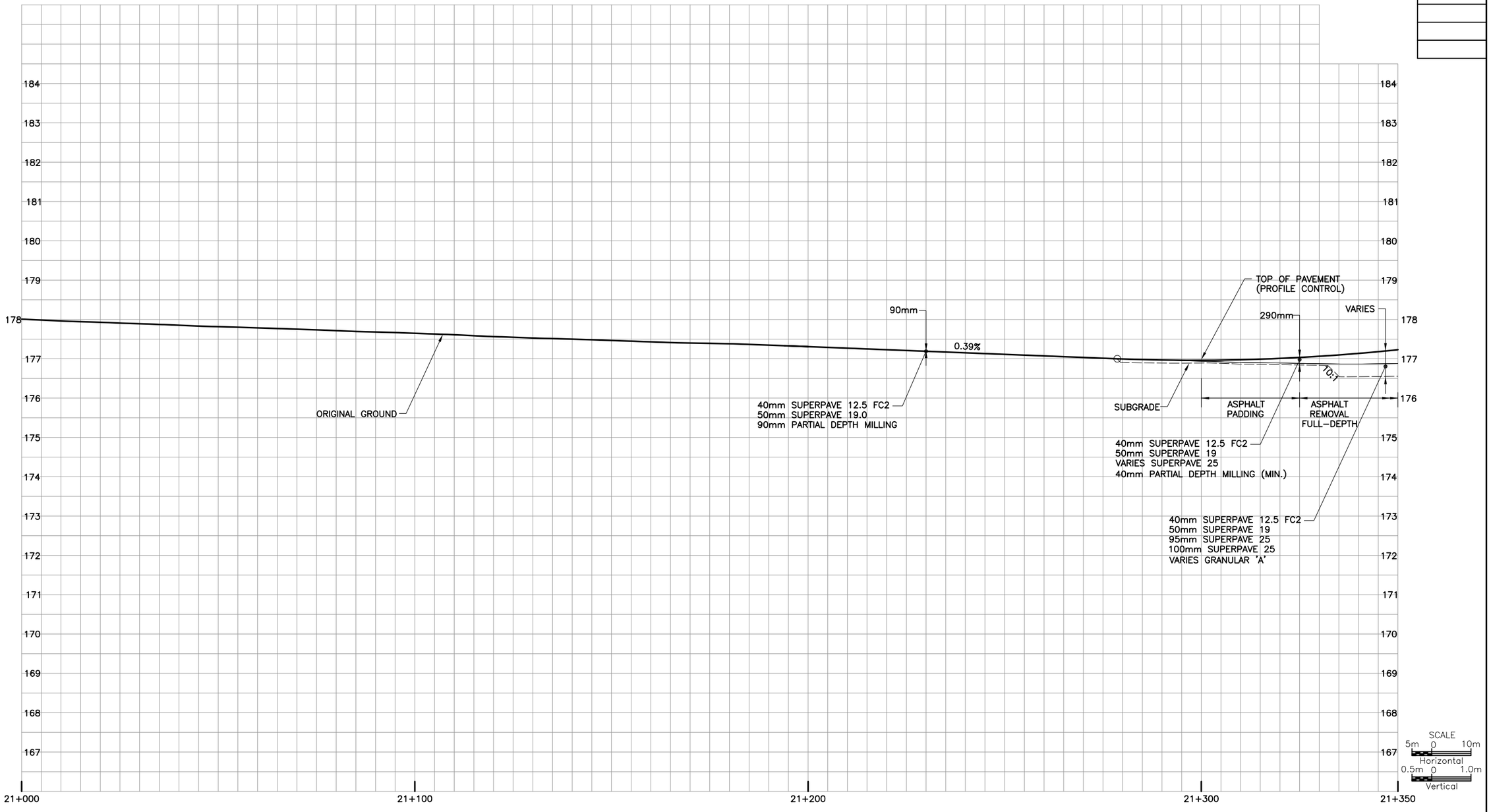
PROFILES
STA 21+000 TO STA 21+350
Survey _____ Revised _____

wsp

SHEET
104B

REVISION 1
19/02/19
REVISION 2
19/03/06

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P01.DWG REVISED BY=G. DEAN
DRAWN BY: R.M. MODIFIED: 19/02/19 12:21:48 Revised

NOTE:

1. EPS EMBANKMENT INCLUDING EXACATION, CONCRETE SLAB, BACKFILL AND GRANULAR BEDDING TO BE DETERMINED DURING DETAIL DESIGN.
2. ASPHALT REMOVAL NOT REQUIRED IN AREAS WHERE GRADE RAISE EXCEEDS 750mm.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

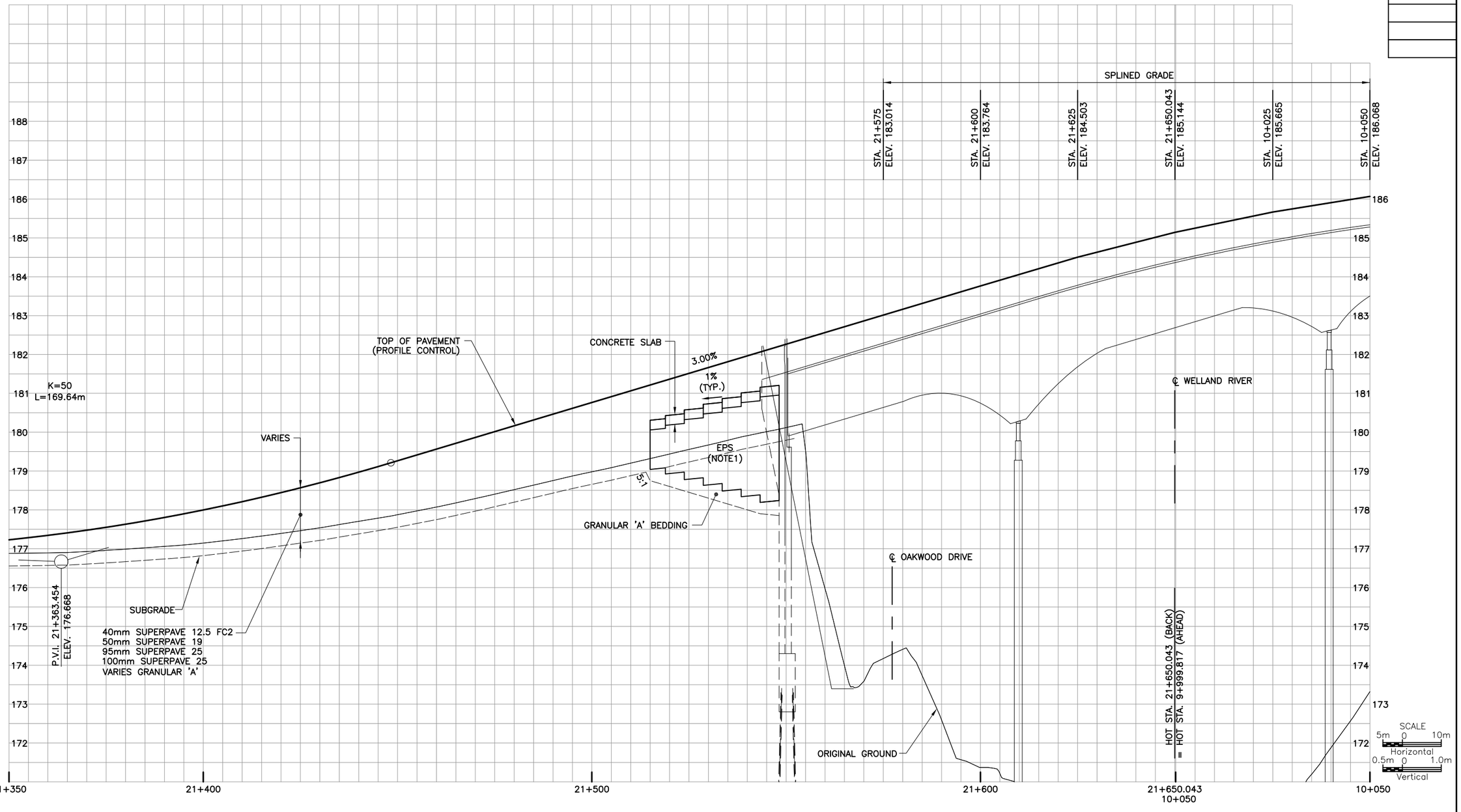
PROFILES
STA 21+350 TO STA 10+050
Survey _____ Revised _____

wsp

SHEET
105B

REVISION 1
19/02/19
REVISION 2
19/03/06

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P02.DWG REVISED BY=G. DEAN
DRAWN BY: R.M. MODIFIED: 19/02/19 12:24:02 Revised

NOTE:

1. EPS EMBANKMENT INCLUDING EXACATION, CONCRETE SLAB, BACKFILL AND GRANULAR BEDDING TO BE DETERMINED DURING DETAIL DESIGN.
2. ASPHALT REMOVAL NOT REQUIRED IN AREAS WHERE GRADE RAISE EXCEEDS 750mm.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

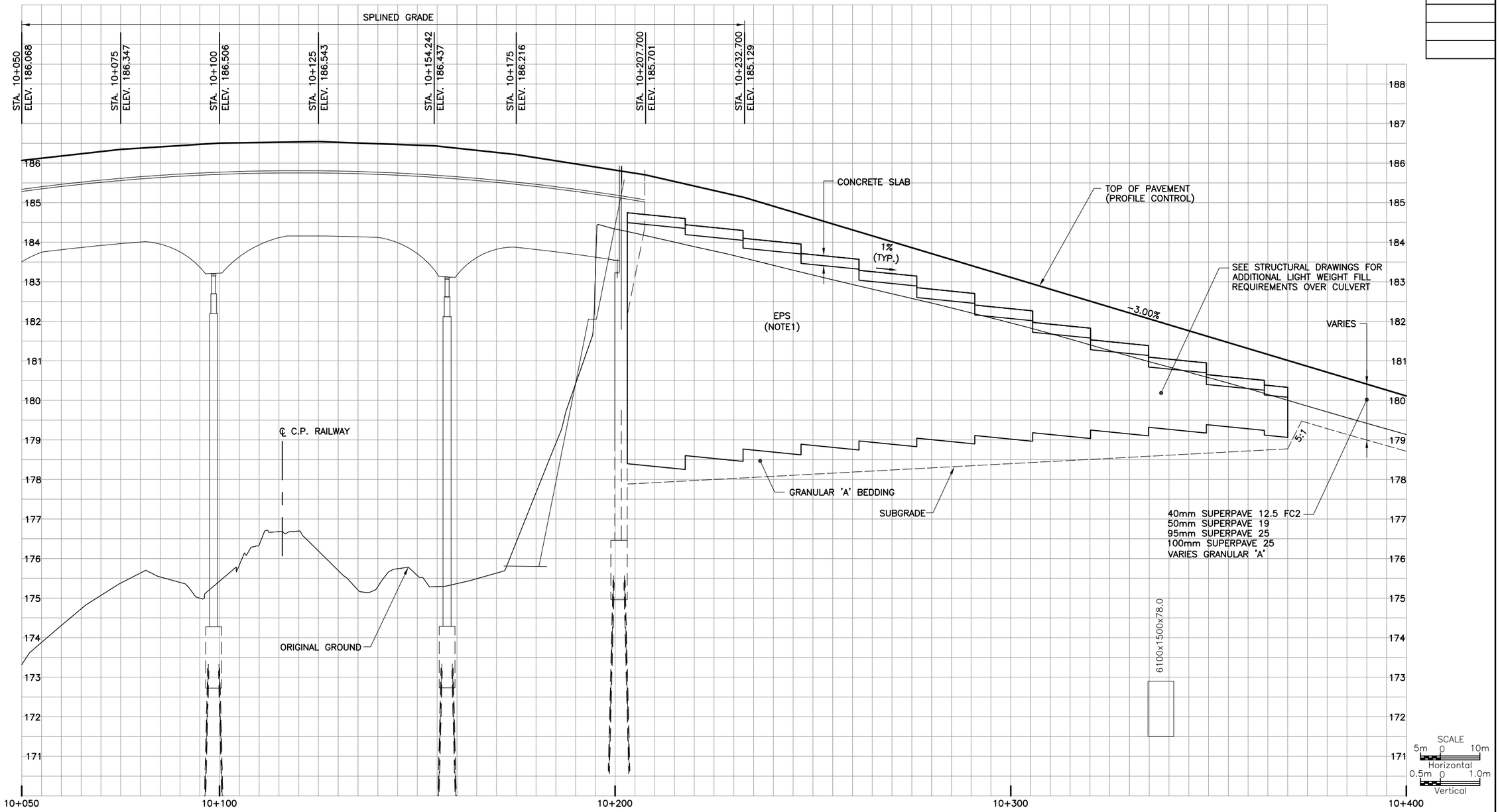
PROFILES
STA 10+050 TO STA 10+400
Survey _____ Revised _____

wsp

SHEET
106B

REVISION 1 19/02/19
REVISION 2 19/03/06

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P03.DWG REVISED BY=G. DEAN
DRAWN BY: R.M. MODIFIED: 19/02/19 12:28:57 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

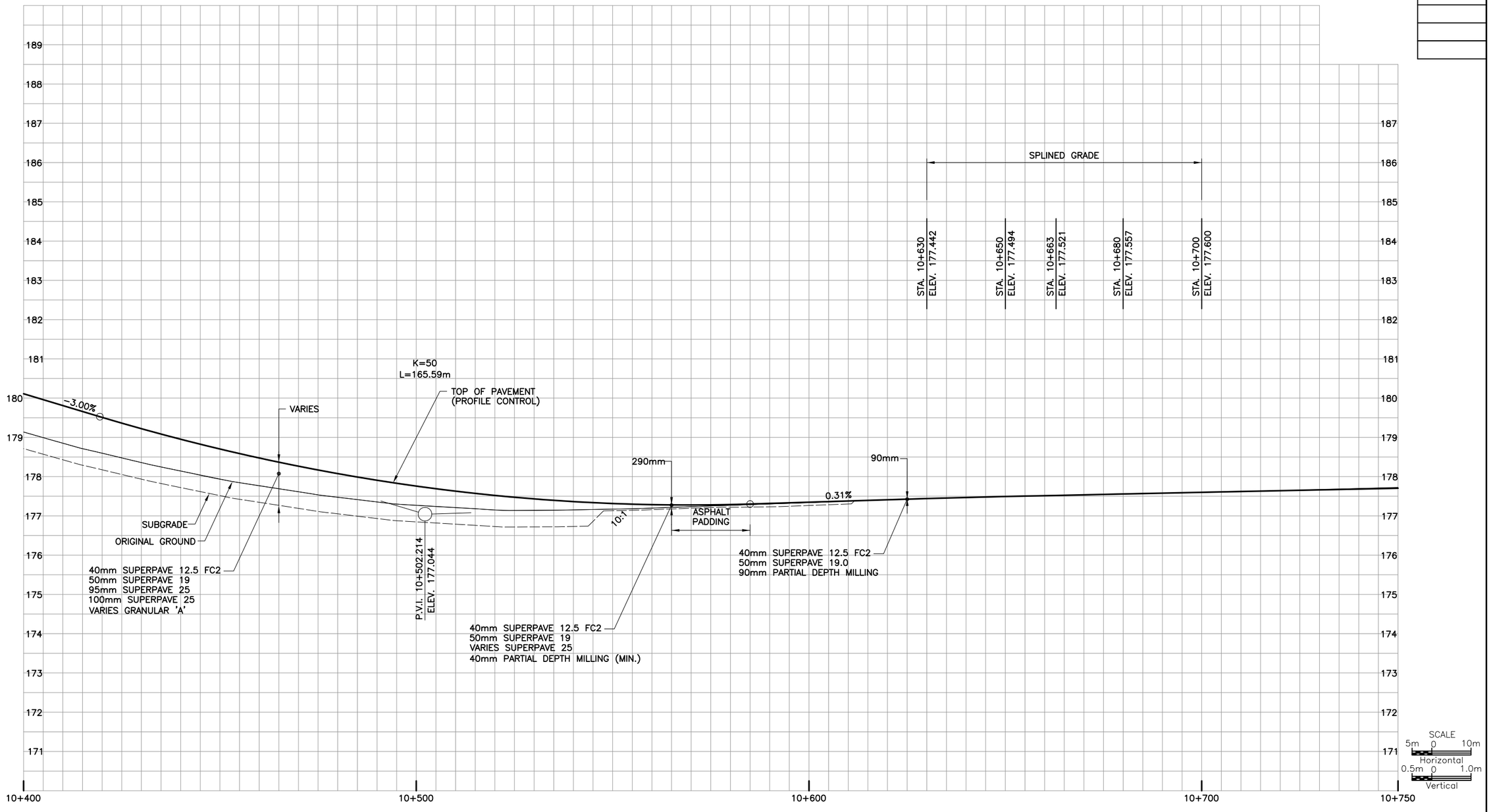
PROFILES
STA 10+400 TO STA 10+750
Survey _____ Revised _____

wsp

SHEET
107B

REVISION 1
19/02/19
REVISION 2
19/03/06

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P04.DWG REVISED BY: G. DEAN
DRAWN BY: R.M. MODIFIED: 19/02/19 12:34:48 Revised

METRIC

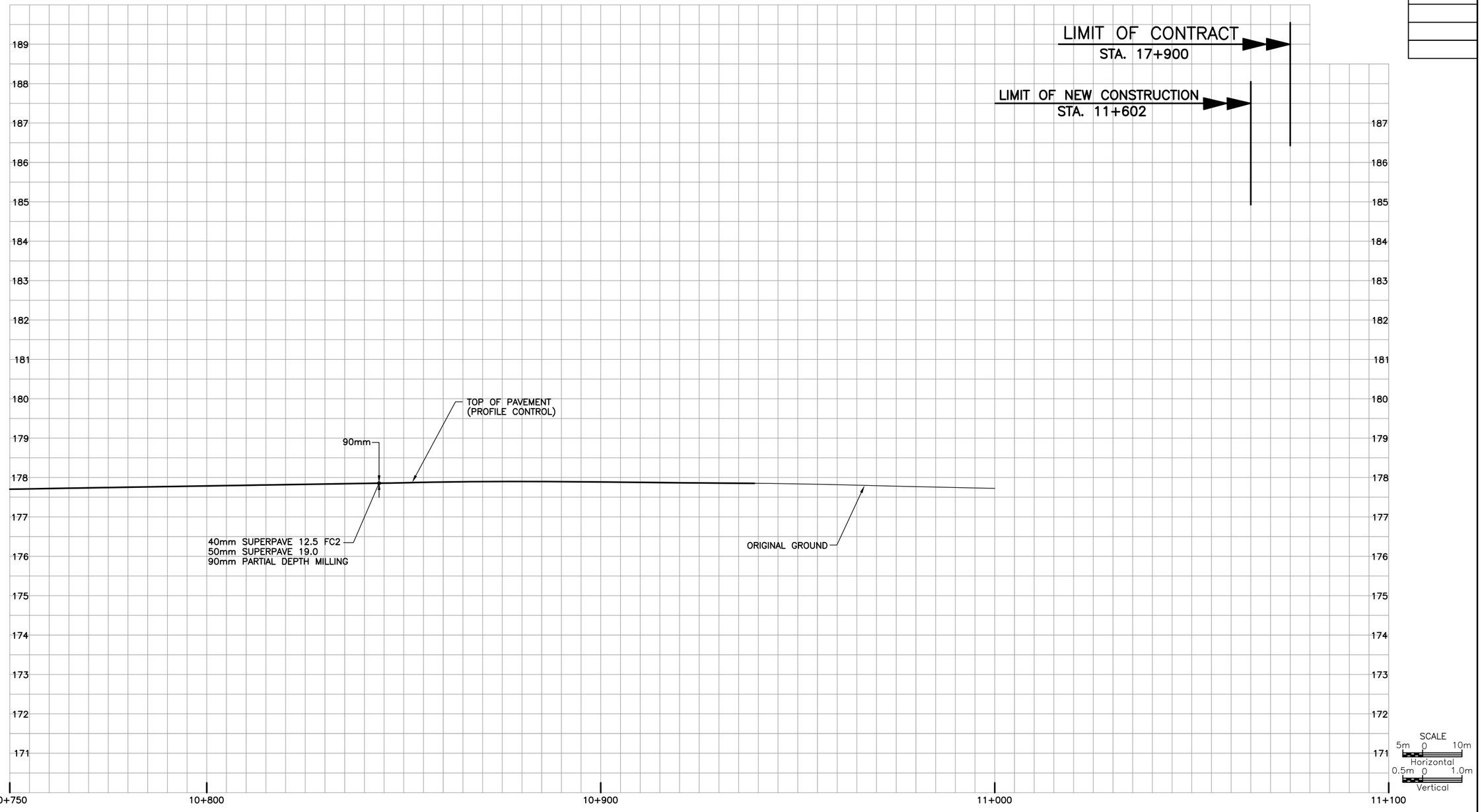
PLATE No
CONT DB 2018-2013
WP 2430-15-00

PROFILES
STA 10+750 TO STA 11+100
Survey _____ Revised _____

SHEET
108

wsp

QEW TORONTO BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P12.DWG REVISED BY-G. DEAN
DRAWN BY: R.M. MODIFIED: 18/10/04 15:52:43 Revised

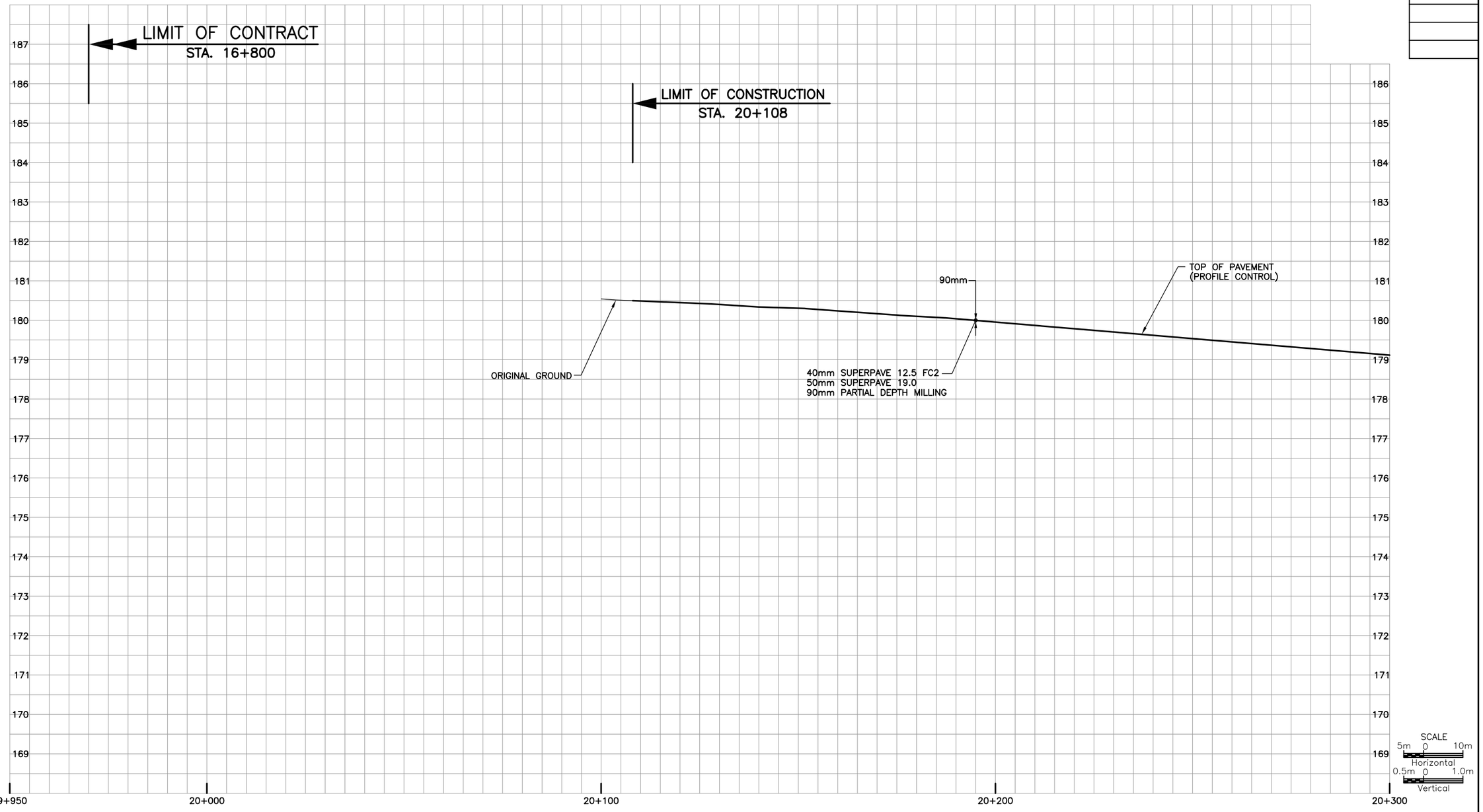
METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PROFILES
STA 19+950 TO STA 20+300
Survey _____ Revised _____

SHEET
109

QEW FORT ERIE BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P13.DWG REVISED BY=G. DEAN
DRAWN BY: G.DEAN MODIFIED: 18/10/04 16:39:49 Revised

METRIC

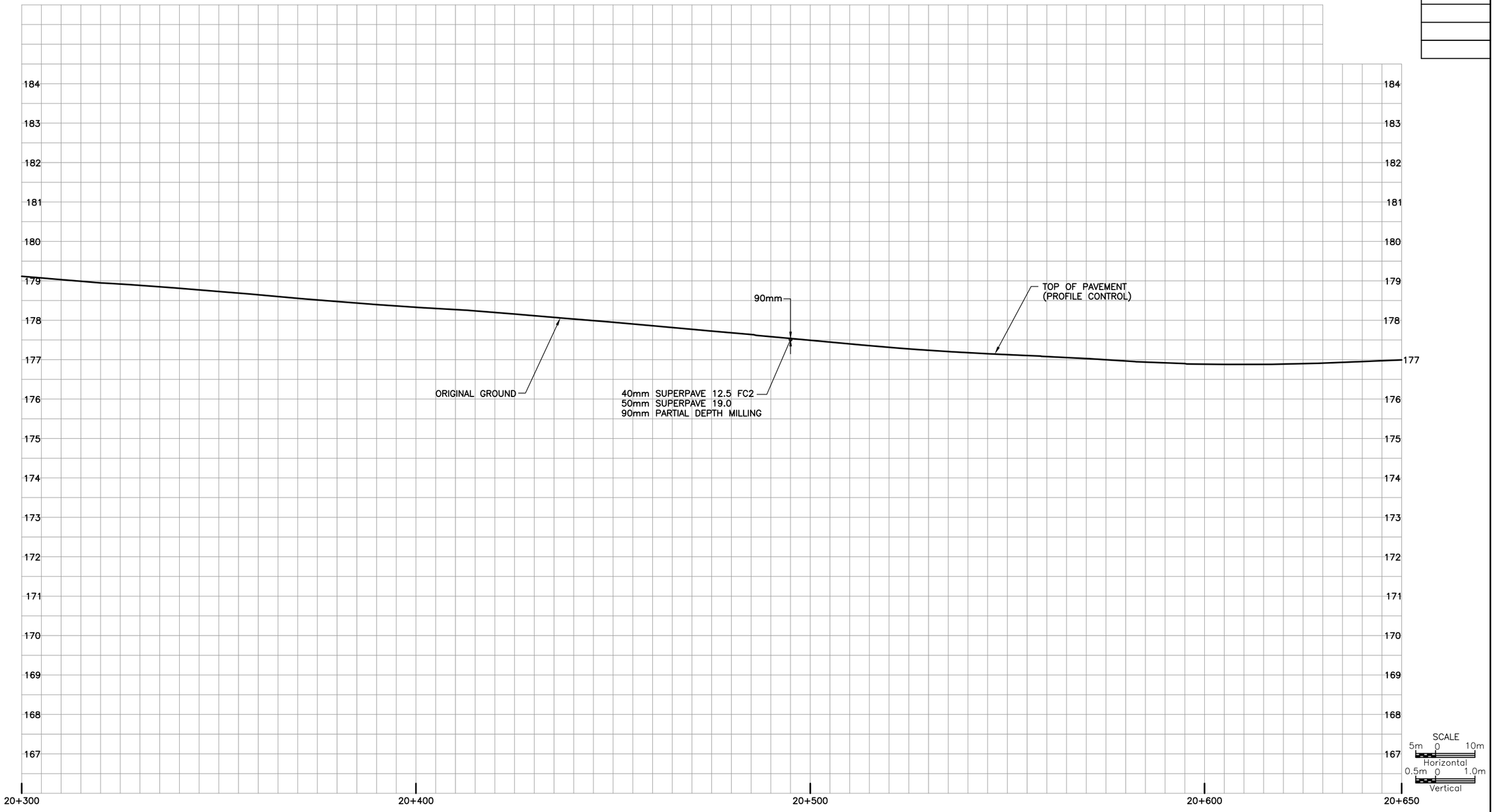
PLATE No
CONT DB 2018-2013
WP 2430-15-00

PROFILES
STA 20+300 TO STA 20+650
Survey _____ Revised _____

SHEET
110

wsp

QEW FORT ERIE BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P14.DWG REVISED BY=G. DEAN
DRAWN BY: G.DEAN MODIFIED: 18/10/04 16:34:29 Revised

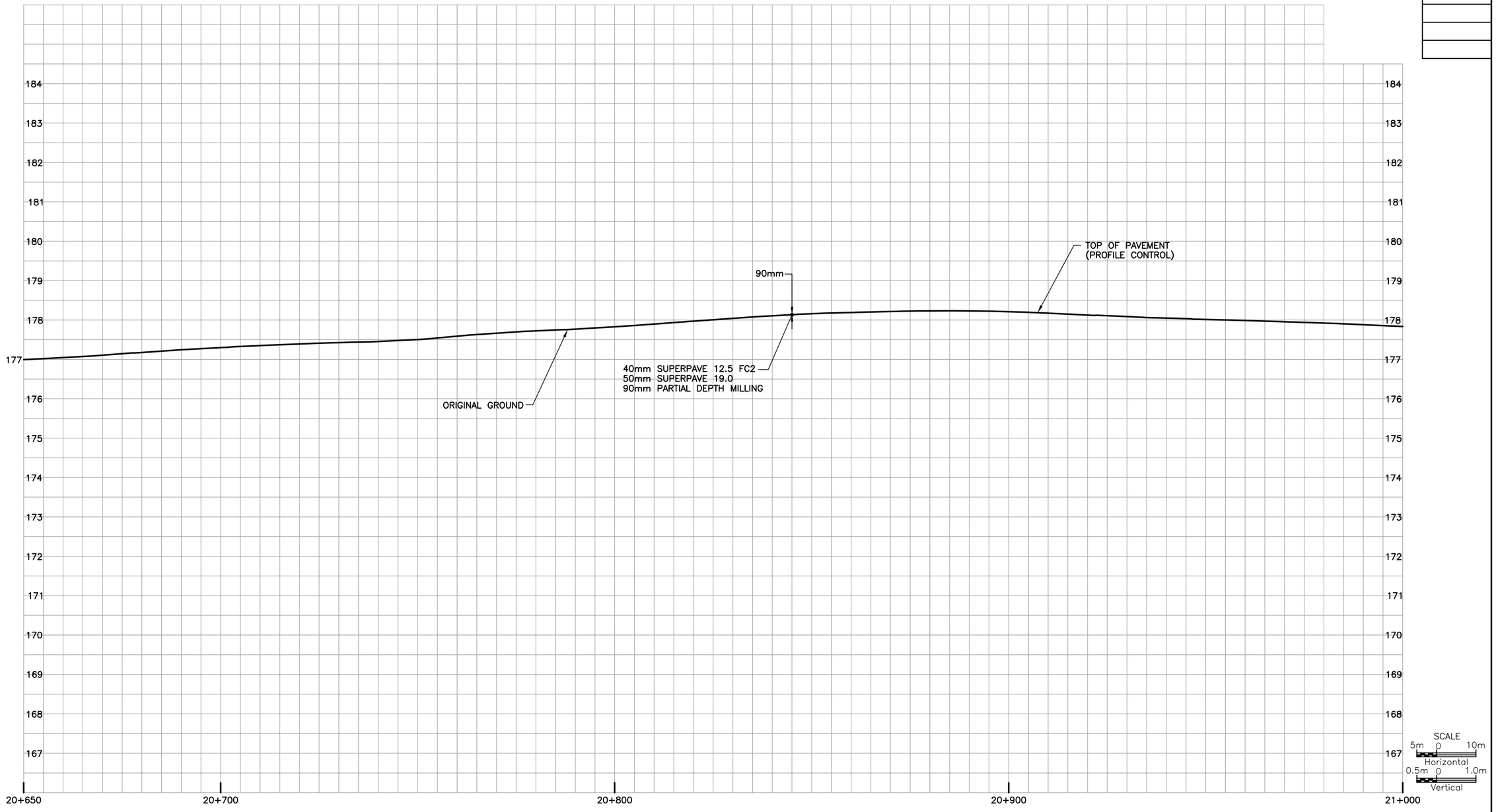
METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PROFILES
STA 20+650 TO STA 21+000
Survey _____ Revised _____

SHEET
111

QEW FORT ERIE BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P15.DWG REVISED BY=G. DEAN
DRAWN BY: G.DEAN MODIFIED: 18/10/04 16:26:26 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

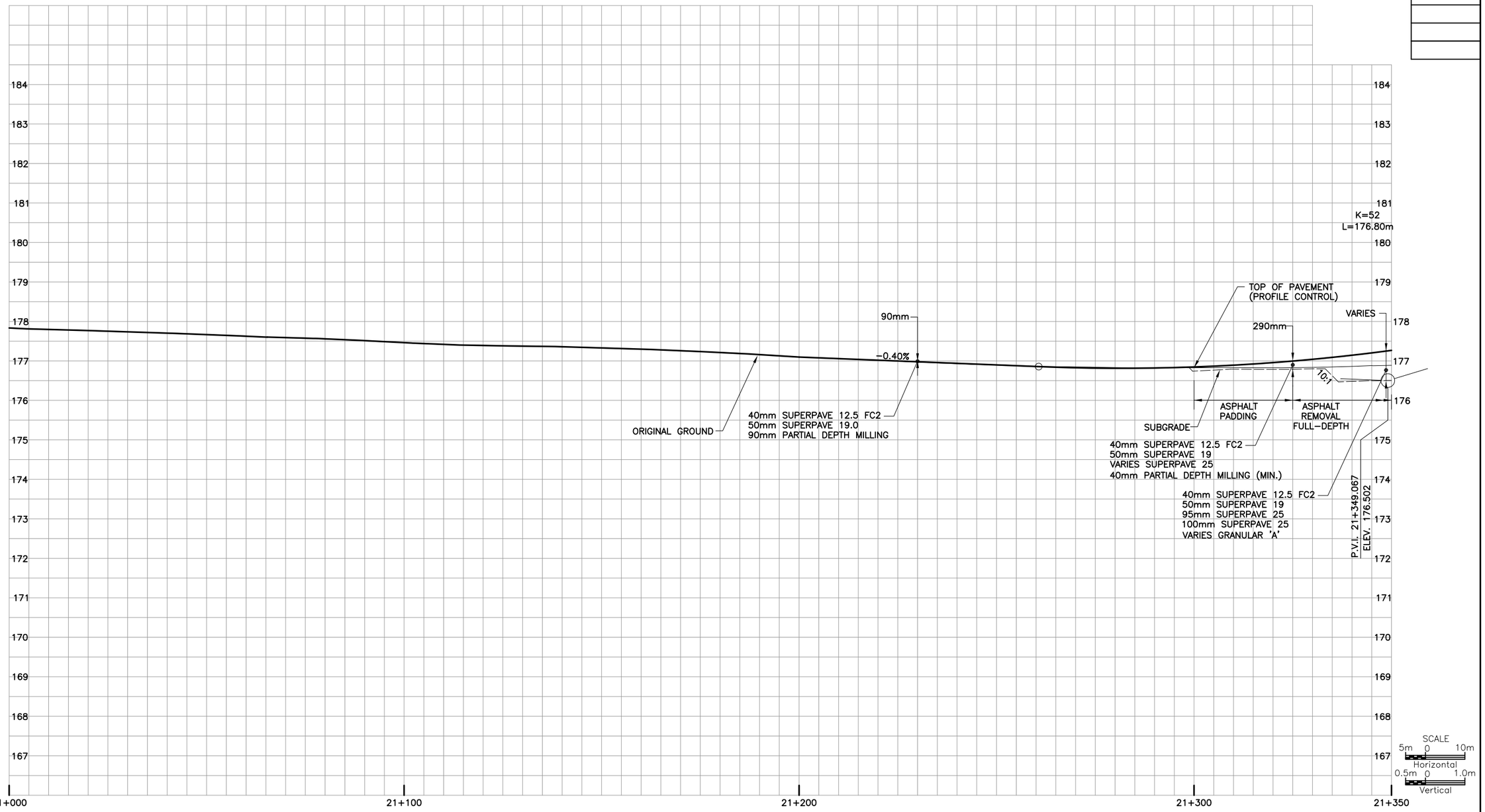
PROFILES
STA 21+000 TO STA 21+350
Survey _____ Revised _____

wsp

SHEET
112B

REVISION 1
19/02/19
REVISION 2
19/03/06

QEW FORT ERIE BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700PE0.DWG REVISED BY-G. DEAN
DRAWN BY: R.M. MODIFIED: 19/02/19 13:04:02 Revised

NOTE:

1. EPS EMBANKMENT INCLUDING EXACATION, CONCRETE SLAB, BACKFILL AND GRANULAR BEDDING TO BE DETERMINED DURING DETAIL DESIGN.
2. ASPHALT REMOVAL NOT REQUIRED IN AREAS WHERE GRADE RAISE EXCEEDS 750mm.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

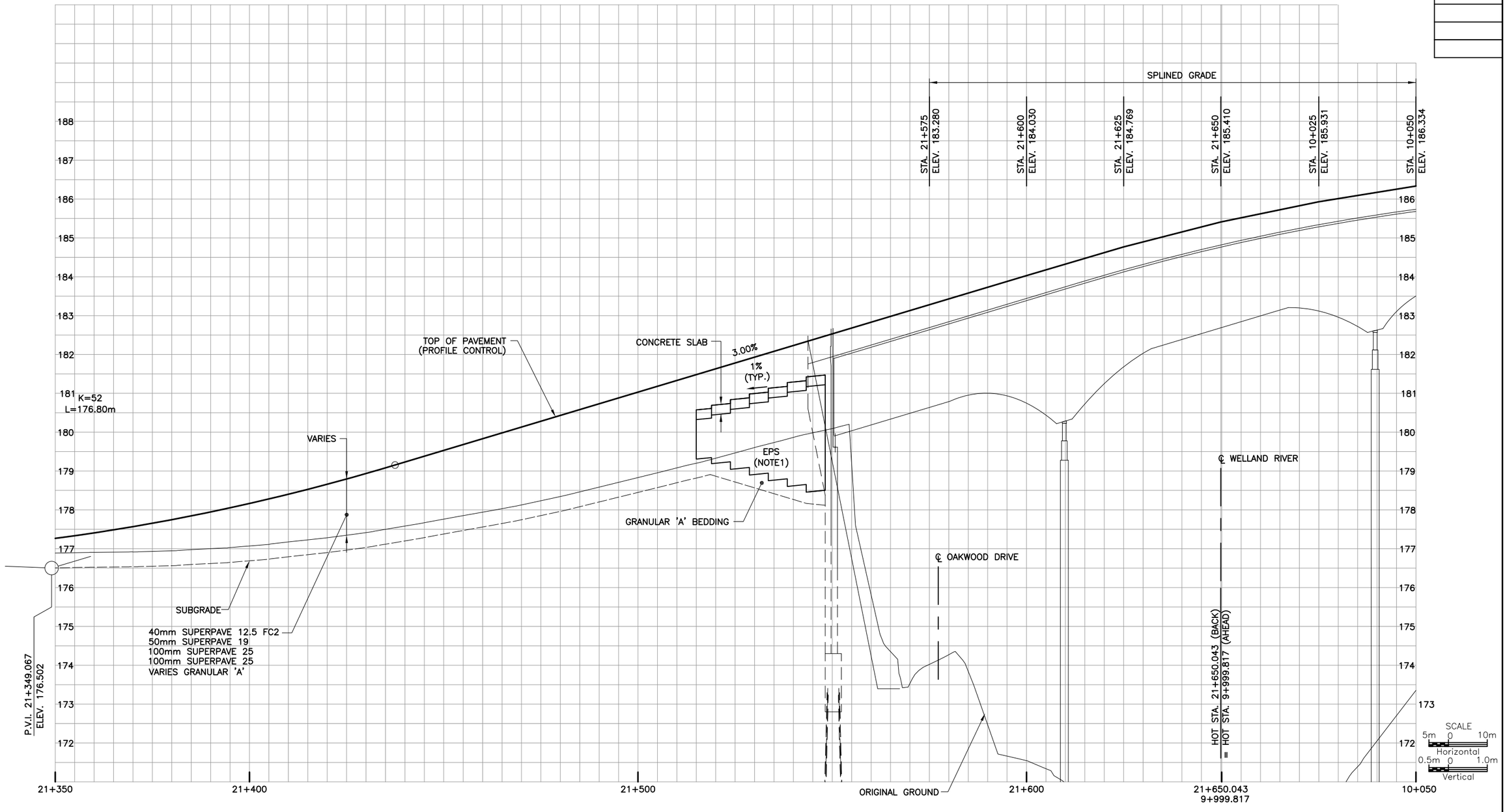
PROFILES
STA 21+350 TO STA 10+050
Survey _____ Revised _____

wsp

SHEET
113B

REVISION 1
19/02/19
REVISION 2
19/03/06

QEW FORT ERIE BOUND



MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P06.DWG REVISED BY=G. DEAN
DRAWN BY: R.M. MODIFIED: 19/02/19 13:11:31 Revised

NOTE:

1. EPS EMBANKMENT INCLUDING EXACATION, CONCRETE SLAB, BACKFILL AND GRANULAR BEDDING TO BE DETERMINED DURING DETAIL DESIGN.
2. ASPHALT REMOVAL NOT REQUIRED IN AREAS WHERE GRADE RAISE EXCEEDS 750mm.

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

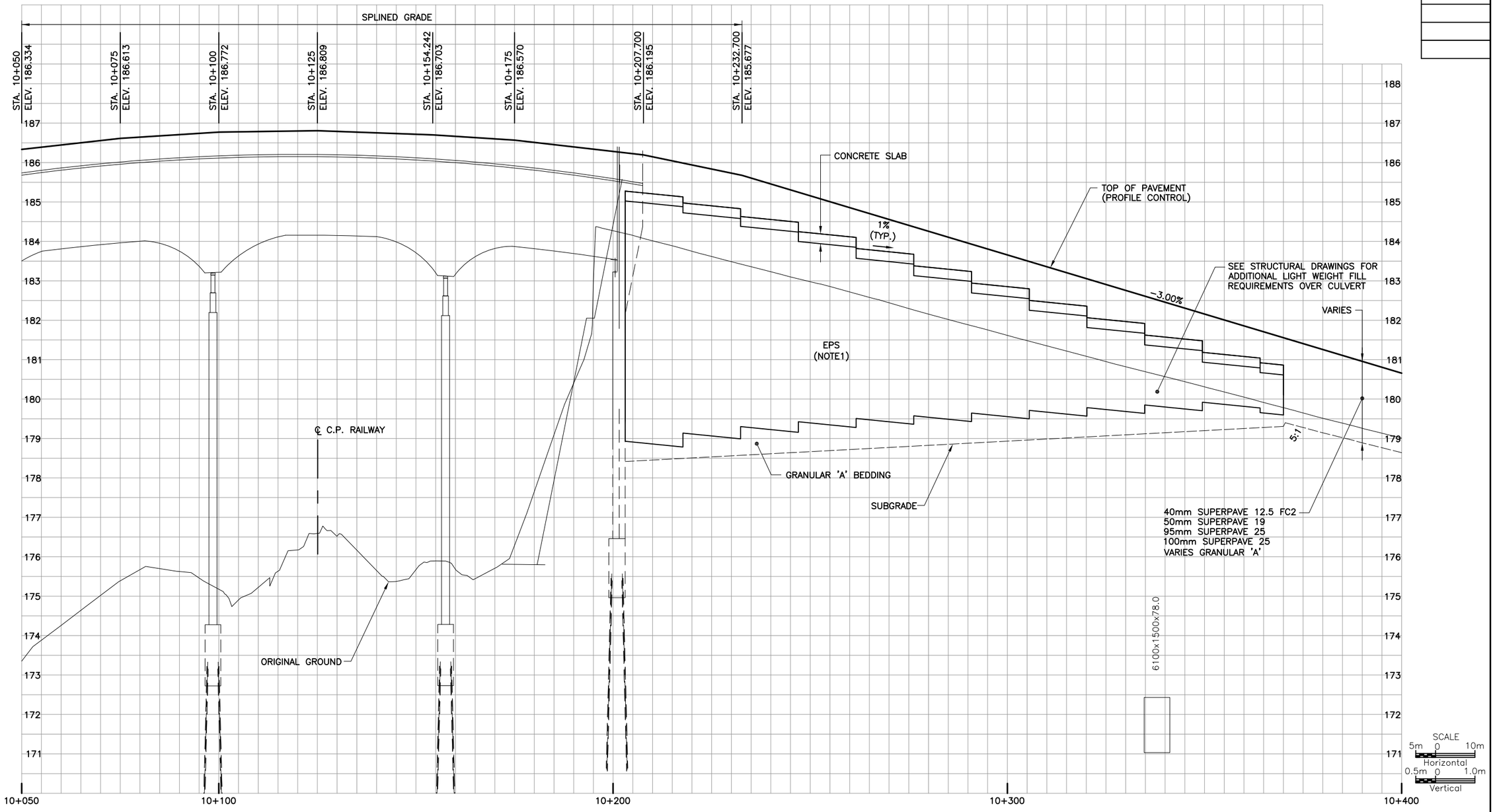
PROFILES
STA 10+050 TO STA 10+400
Survey _____ Revised _____

wsp

SHEET
114B

REVISION 1 19/02/19
REVISION 2 19/03/06

QEW FORT ERIE BOUND



PR-O-707 88-05
MINISTRY OF TRANSPORTATION, ONTARIO
FILE LOCATION=\\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P07.DWG MODIFIED: 19/02/19 13:16:21 Revised
DRAWN BY: R.M. REVISED BY=G. DEAN

METRIC

PLATE No

CONT DB 2018-2013

WP 2430-15-00

PROFILES

STA 10+400 TO STA 10+750

Survey _____ Revised _____

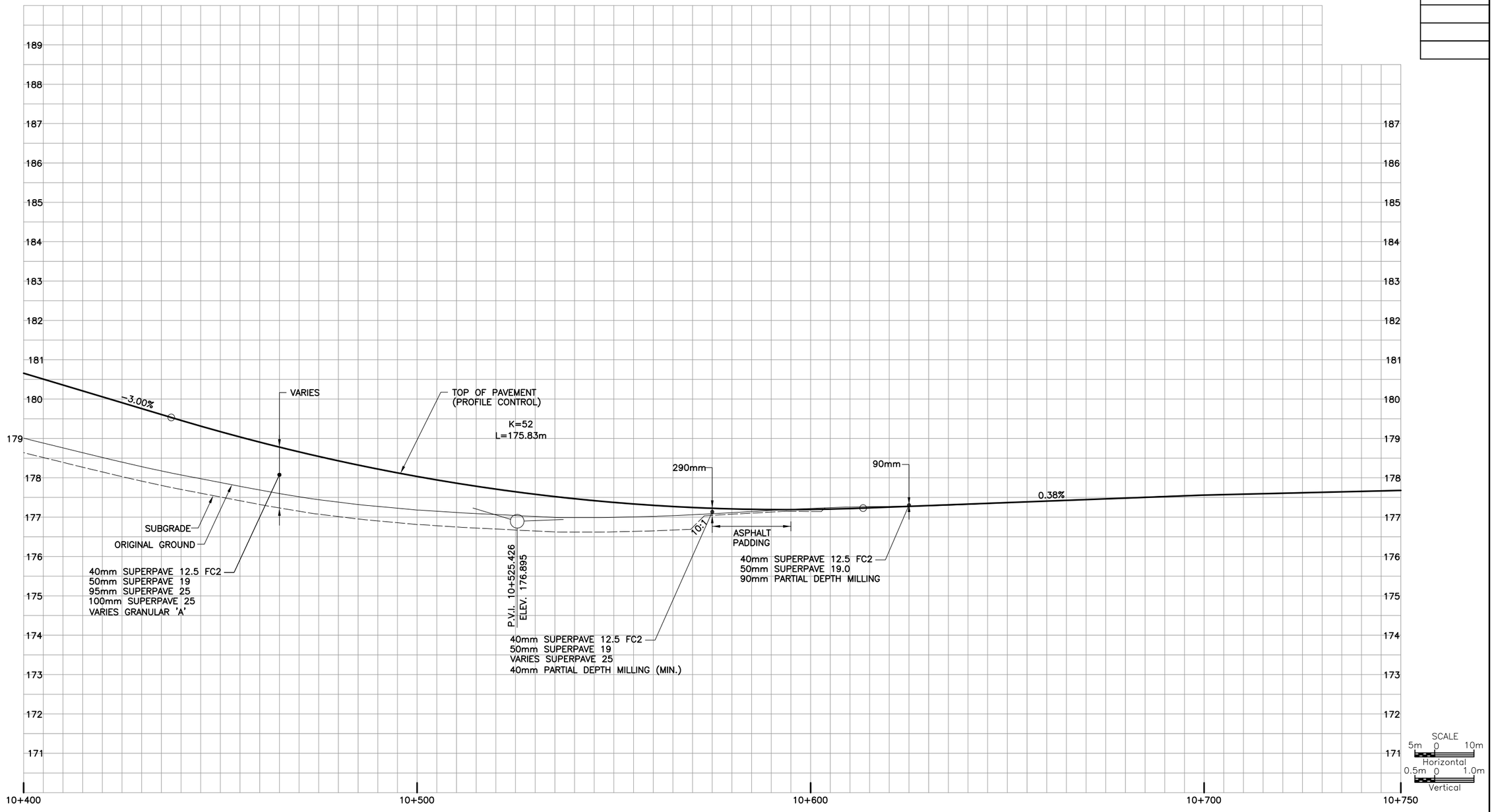
wsp

SHEET 115B

REVISION 1 19/02/19

REVISION 2 19/03/06

QEW FORT ERIE BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: R.M. MODIFIED: 19/02/19 13:23:18 Revised

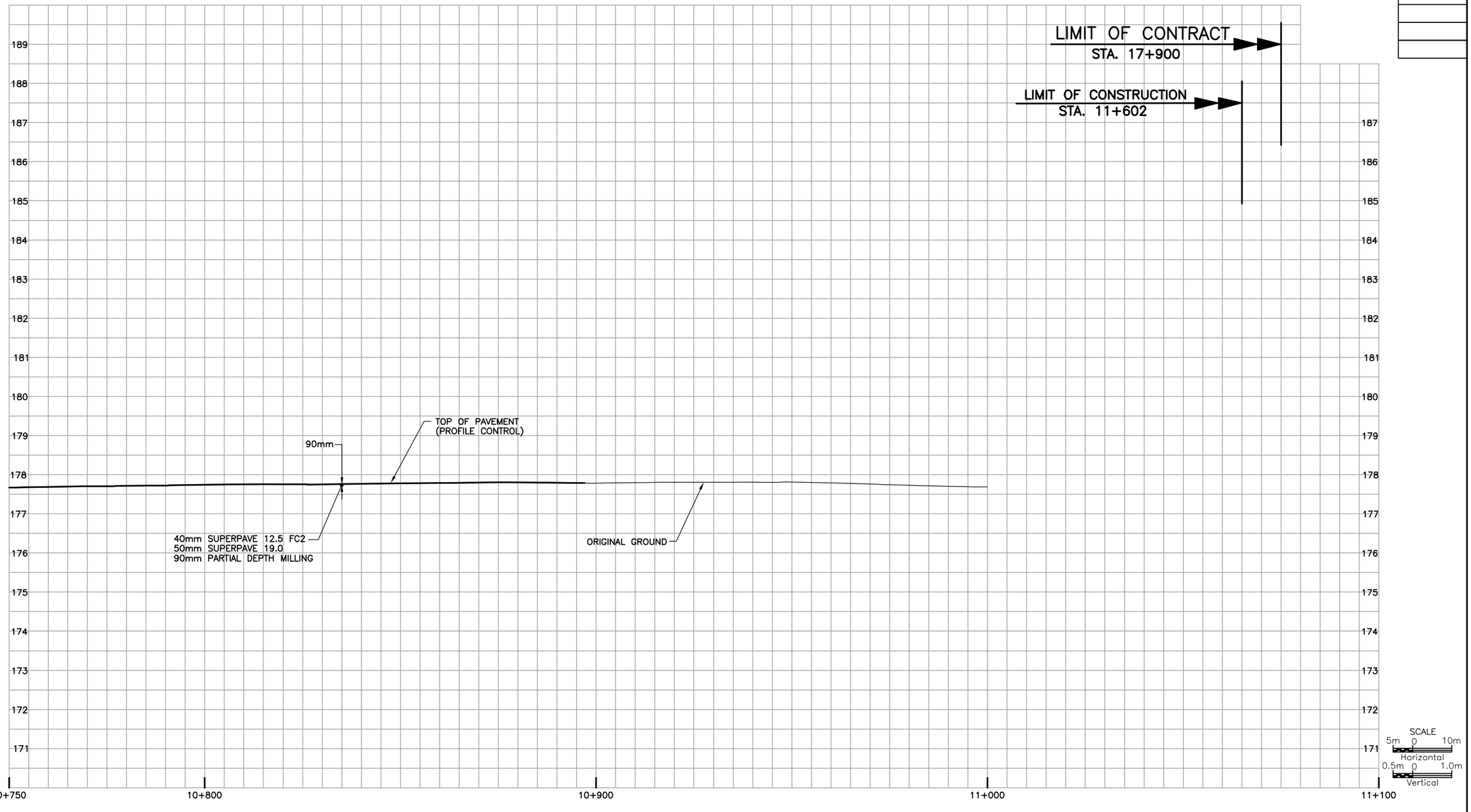
METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PROFILES
STA 10+750 TO STA 11+100
Survey _____ Revised _____

SHEET
116

QEW FORT ERIE BOUND



MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700P16.DWG REVISED BY=G. DEAN
DRAWN BY: R.M. MODIFIED: 18/10/04 17:02:57 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

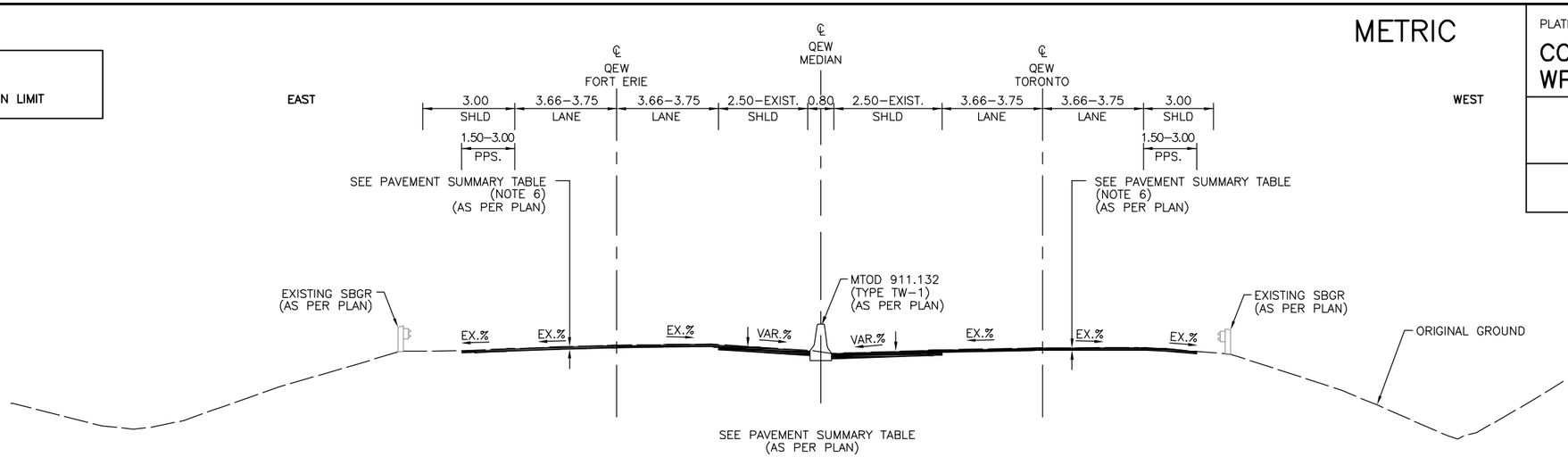
TYPICAL SECTIONS

SHEET 117A

REVISION 1 19/02/19

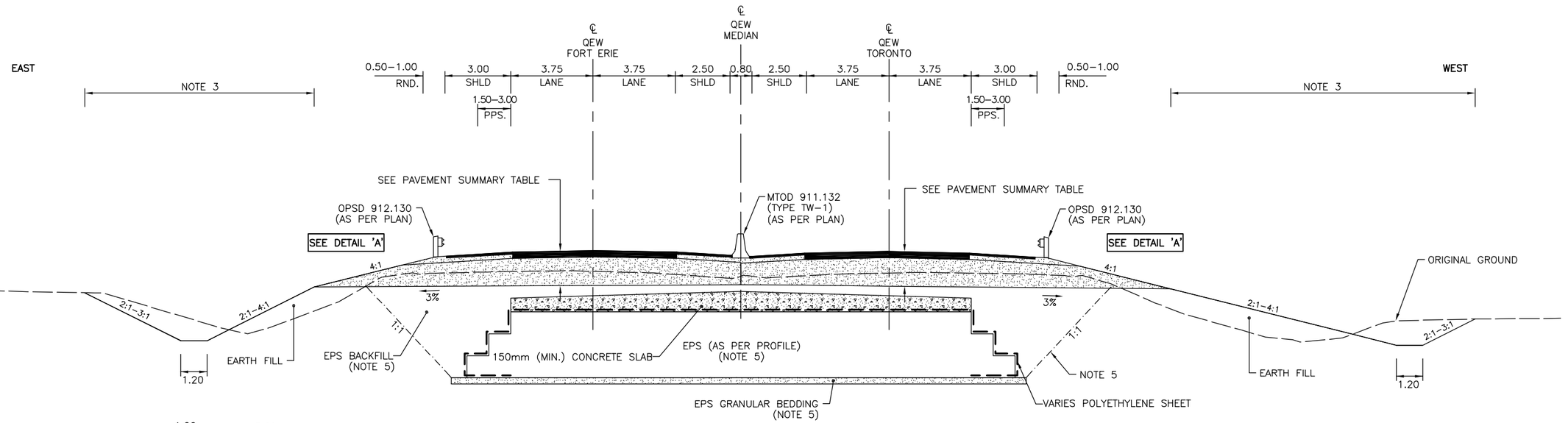
LEGEND

—·—·— EPS EXCAVATION LIMIT



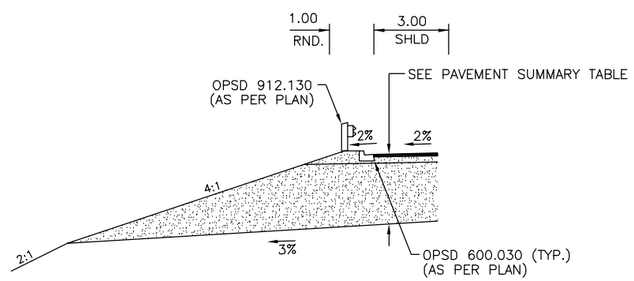
QEW – TANGENT

STA. 20+108 TO STA. 21+309
N.T.S.



QEW – TANGENT

STA. 21+309 TO STA. 21+531
N.T.S.



DETAIL 'A' – CONCRETE CURB AND GUTTER

STA. 21+531 TO STA. 21+544
STA. 10+206 TO STA. 10+219
N.T.S.

PAVEMENT SUMMARY TABLE		
GRADE RAISE	LANE	SHOULDER
NONE	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 90mm PARTIAL DEPTH MILLING	40mm SUPERPAVE 12.5 FC2 40mm PARTIAL DEPTH MILLING
≤ 250mm	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 VARIABLE SUPERPAVE 25.0 VARIABLE PARTIAL DEPTH MILLING (40mm MIN.)	MATCH GRADE RAISE IN LANE
> 250mm	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 95mm SUPERPAVE 25.0 100mm SUPERPAVE 25.0 VARIES GRANULAR 'A' FULL DEPTH ASPHALT REMOVAL	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 VARIES GRANULAR 'A'

NOTES:

1. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH DESIGN TEMPLATES, TYPICAL DETAILS AND OPSD 200 SERIES DRAWINGS.
2. SHOULDER AND MEDIAN RUMBLE STRIPS TO BE REINSTATED AS PER MTOD 503 SERIES DRAWINGS.
3. 50mm TOPSOIL, SEED AND MULCH OR EROSION CONTROL BLANKETS (SLOPE STEEPER THAN 3:1)
4. LANE AND SHOULDER CROSSFALL TO MATCH EXISTING AND APPROACH SLAB AT TIE–IN POINTS.
5. EPS EMBANKMENT INCLUDING EXCAVATION, CONCRETE SLAB, POLYETHYLENE SHEET, BACKFILL AND GRANULAR BEDDING TO BE DETERMINED DURING DETAIL DESIGN.
6. MILL, PAD AND PAVE STA. 20+141 TO STA. 21+294 AND STA. 10+600 TO STA. 10+939 QEW TORONTO BOUND AND STA. 20+108 TO STA. 21+294 AND STA. 10+600 TO STA. 10+897 QEW FORT ERIE BOUND.
7. ROUNDING WIDTH IS 1.0m AT STEEL BEAM GUIDERAIL INSTALLATION.

SCALE N.T.S.

MINISTRY OF TRANSPORTATION, ONTARIO PR-0-707 88-06

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700T01.DWG REVISED BY=G. DEAN
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METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

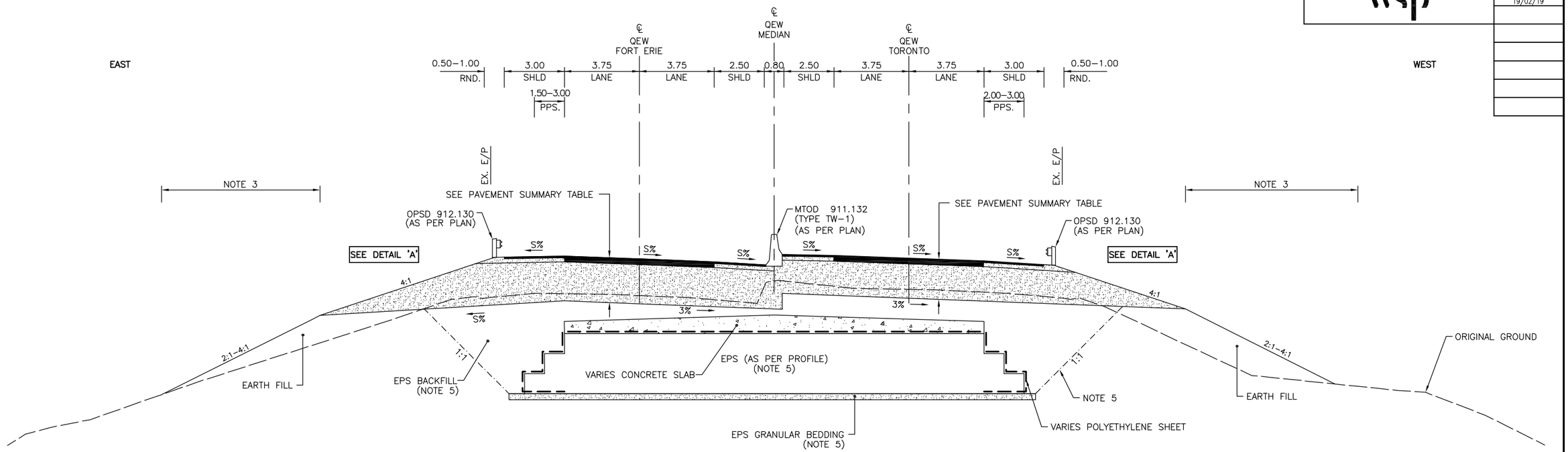
TYPICAL SECTIONS

SHEET 118A

REVISION 1
19/02/19

LEGEND

—·—·— EPS EXCAVATION LIMIT



QEW – SUPERELEVATED

STA. 10+219 TO STA. 10+593
N.T.S.

PAVEMENT SUMMARY TABLE		
GRADE RAISE	LANE	SHOULDER
NONE	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 90mm PARTIAL DEPTH MILLING	40mm SUPERPAVE 12.5 FC2 40mm PARTIAL DEPTH MILLING
≤ 250mm	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 VARIABLE SUPERPAVE 25.0 VARIABLE PARTIAL DEPTH MILLING (40mm MIN.)	MATCH GRADE RAISE IN LANE
> 250mm	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 95mm SUPERPAVE 25.0 100mm SUPERPAVE 25.0 VARIES GRANULAR 'A' FULL DEPTH ASPHALT REMOVAL	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 VARIES GRANULAR 'A'

NOTES:

1. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH DESIGN TEMPLATES, TYPICAL DETAILS AND OPSD 200 SERIES DRAWINGS.
2. SHOULDER AND MEDIAN RUMBLE STRIPS TO BE REINSTATED AS PER MTOD 503 SERIES DRAWINGS.
3. 50mm TOPSOIL, SEED AND MULCH OR EROSION CONTROL BLANKETS (SLOPE STEEPER THAN 3:1)
4. LANE AND SHOULDER CROSSFALL TO MATCH EXISTING AND APPROACH SLAB AT TIE–IN POINTS.
5. EPS EMBANKMENT INCLUDING EXCAVATION, CONCRETE SLAB, POLYETHYLENE SHEET, BACKFILL AND GRANULAR BEDDING TO BE DETERMINED DURING DETAIL DESIGN.
6. ROUNDING WIDTH IS 1.0m AT STEEL BEAM GUIDERAIL INSTALLATION.

SUPERELEVATION RATES													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	–1	–2	–3	–4	–5	–6
SHOULDER	–2	–2	–2	–3	–3	–3	–4	–5	–6	–6	–6	–6	–6

SCALE
N.T.S.

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-06
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DRAWN BY: R.MANIHANG MODIFIED: 19/02/19 10:48:40 Revised

METRIC

PLATE No
CONT DB 2018–2013
WP 2430–15–00

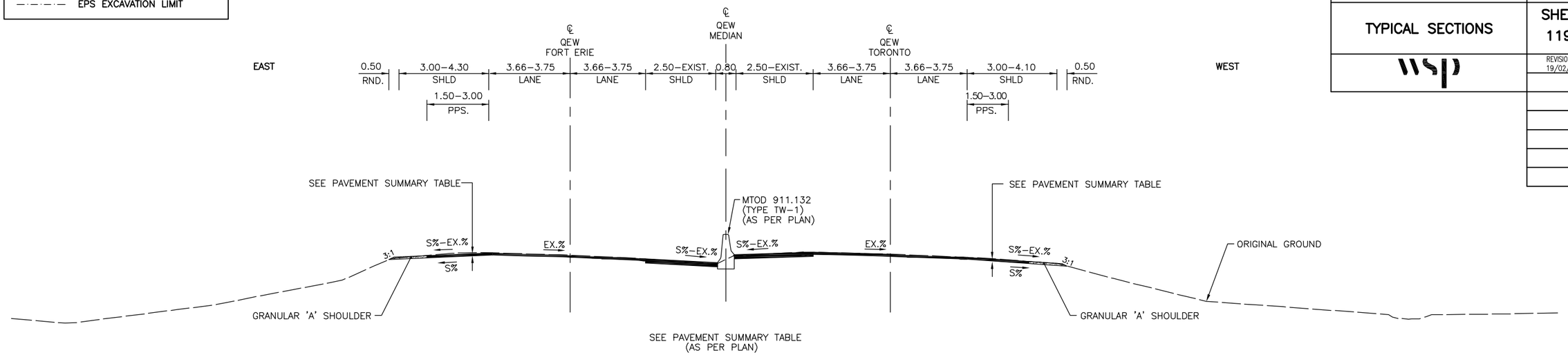
TYPICAL SECTIONS

SHEET 119A

REVISION 1
19/02/19

LEGEND

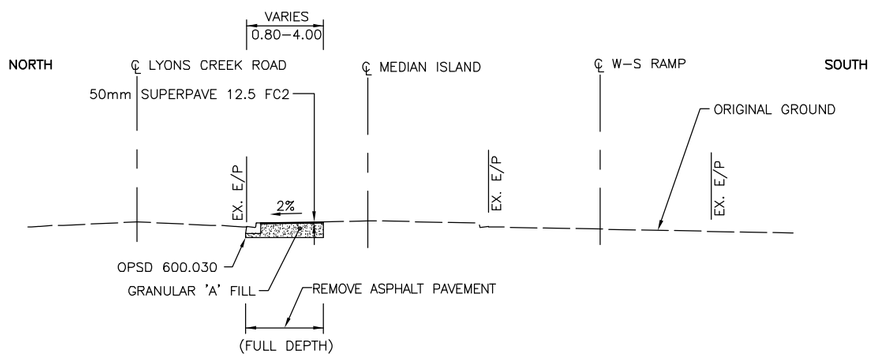
EPS EXCAVATION LIMIT



QEW – SUPERELEVATED

STA. 10+593 TO STA. 10+939
N.T.S.

PAVEMENT SUMMARY TABLE		
GRADE RAISE	LANE	SHOULDER
NONE	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 90mm PARTIAL DEPTH MILLING	40mm SUPERPAVE 12.5 FC2 40mm PARTIAL DEPTH MILLING
≤ 250mm	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 VARIABLE SUPERPAVE 25.0 VARIABLE PARTIAL DEPTH MILLING (40mm MIN.)	MATCH GRADE RAISE IN LANE
> 250mm	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 95mm SUPERPAVE 25.0 100mm SUPERPAVE 25.0 VARIES GRANULAR 'A' FULL DEPTH ASPHALT REMOVAL	40mm SUPERPAVE 12.5 FC2 50mm SUPERPAVE 19.0 VARIES GRANULAR 'A'



LYONS CREEK ROAD/W–S RAMP – TANGENT MEDIAN ISLAND REINSTATEMENT

N.T.S.

NOTES:

1. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH DESIGN TEMPLATES, TYPICAL DETAILS AND OPSD 200 SERIES DRAWINGS.
2. SHOULDER AND MEDIAN RUMBLE STRIPS TO BE REINSTATED AS PER MTOD 503 SERIES DRAWINGS.
3. 50mm TOPSOIL, SEED AND MULCH OR EROSION CONTROL BLANKETS (SLOPE STEEPER THAN 3:1)
4. LANE AND SHOULDER CROSSFALL TO MATCH EXISTING AND APPROACH SLAB AT TIE–IN POINTS.
5. MILL, PAD AND PAVE STA. 20+141 TO STA. 21+294 AND STA. 10+600 TO STA. 10+939 QEW TORONTO BOUND AND STA. 20+108 TO STA. 21+294 AND STA. 10+600 TO STA. 10+897 QEW FORT ERIE BOUND.

SUPERELEVATION RATES													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	–1	–2	–3	–4	–5	–6
SHOULDER	–2	–2	–2	–3	–3	–3	–4	–5	–6	–6	–6	–6	–6

SCALE
N.T.S.

MINISTRY OF TRANSPORTATION, ONTARIO
PR-0-707 88-06

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700T03.DWG REVISED BY=G. DEAN
DRAWN BY: R.MANINANG MODIFIED: 19/02/19 10:49:58 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 18+200 TO STA 18+900

SHEET 120

wsp

LIMIT OF CONTRACT
STA. 16+800

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LIMIT OF PAVEMENT MARKINGS
STA. 18+511

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

STA. 18+550

MATCH EXISTING

3.66

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

E-N RAMP

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

N-E/W RAMP

STA. 18+550

STA. 18+900

MATCH EXISTING

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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DRAWING NAME: H17M-01700M01.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/20 13:28:37 Revised

METRIC

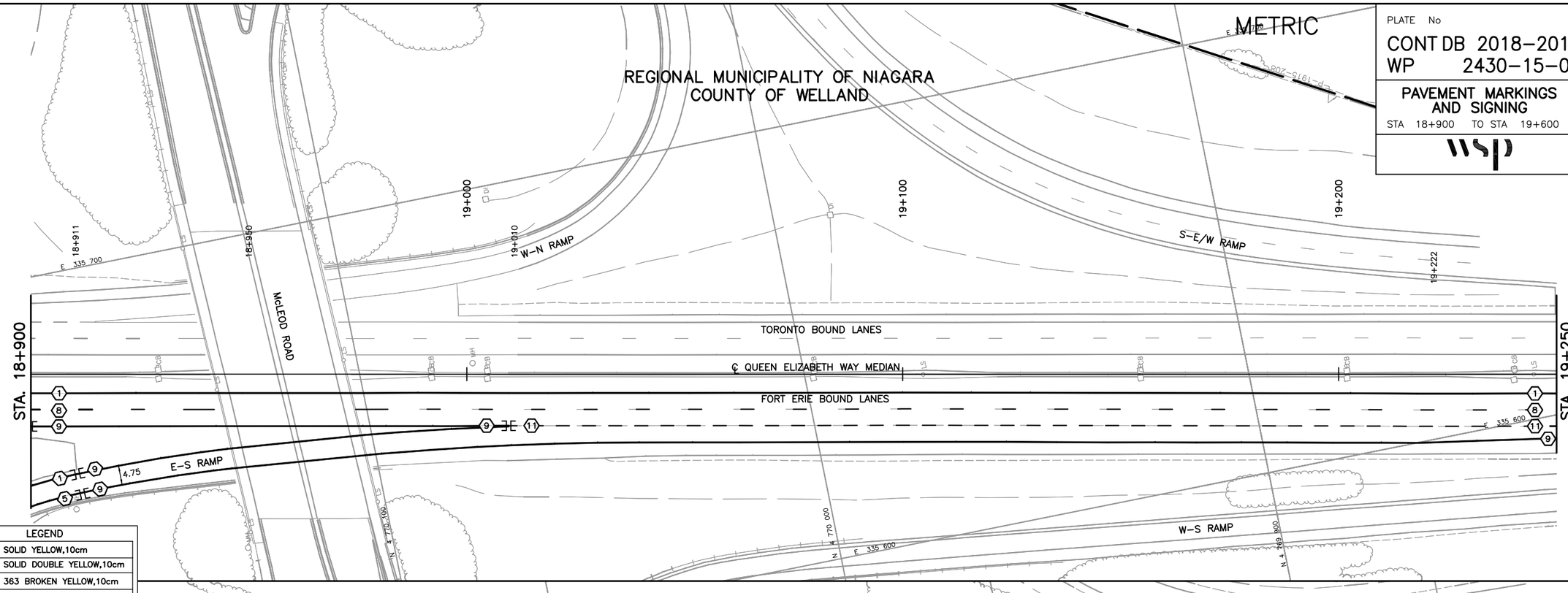
PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 18+900 TO STA 19+600

SHEET 121

wsp

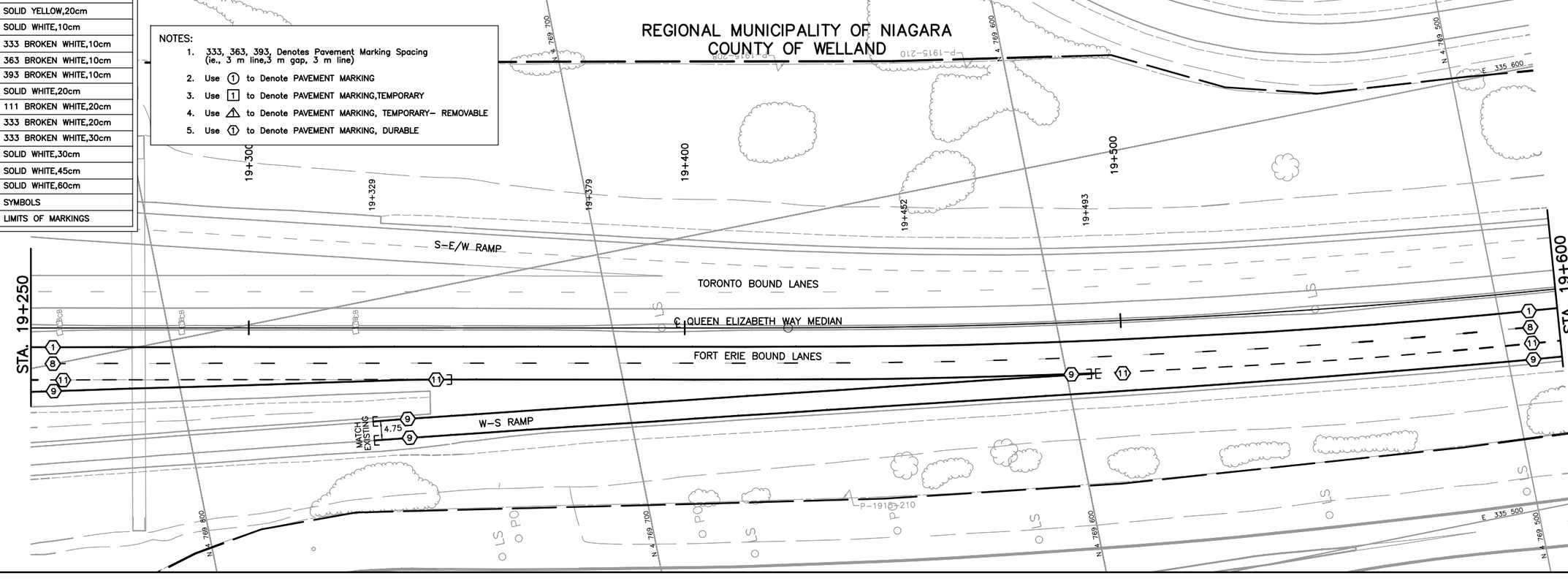
REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓘ1 to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700M02.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/20 13:33:44 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 19+600 TO STA 20+200

SHEET 122

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

E 335 600

N 4 769 400

N 4 769 300

N 4 769 200

19+700

19+800

19+809

19+844

19+854

19+900

P-1915-210

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 19+600

STA. 19+950

P-1915-210

P-1915-210

P-1915-36

E 335 500

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

N 4 769 000

N 4 768 900

N 4 768 800

E 335 600

OAKWOOD DRIVE

ASPH

CLF

19+991

20+000

20+100

20+200

P-1915-210

P-1915-36

MATCH EXISTING

3.66

3.66

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 19+950

STA. 20+300

SBGR

P-1915-36

MONTROSE ROAD

E 335 500

N 4 769 100

N 4 769 000

N 4 768 900

N 4 768 800

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700M03.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/18 14:32:55 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 20+300 TO STA 21+000

SHEET 123

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 20+300

STA. 20+650

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MONTROSE ROAD

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓓ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 20+650

STA. 21+000

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

MONTROSE ROAD

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700M04.DWG REVISED BY: G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/18 14:40:05 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 21+000 TO STA 10+050

SHEET 124

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 21+100 — STA. 21+350

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

3.66 / 3.66 | 3.75 / 3.75 | 3.75 / 3.75

47 Lyons Creek Rd.
Chippawa
Welland
2 km

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE ,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

OAKWOOD DRIVE

STA. 20+350 — STA. 10+050

TORONTO BOUND LANES
℄ QUEEN ELIZABETH WAY MEDIAN
FORT ERIE BOUND LANES

3.75 / 3.75 | 3.75 / 3.75 | 3.75 / 3.75

WELLAND RIVER

HOT STA. 21+650.043 (BACK)
= HOT STA. 9+999.817 (AHEAD)

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00_WELLAND\
DRAWING NAME: H17M-01700M05.DWG
DRAWN BY: G. DEAN
MODIFIED: 18/09/20 13:44:12 Revised
REVISED BY: G. DEAN

METRIC

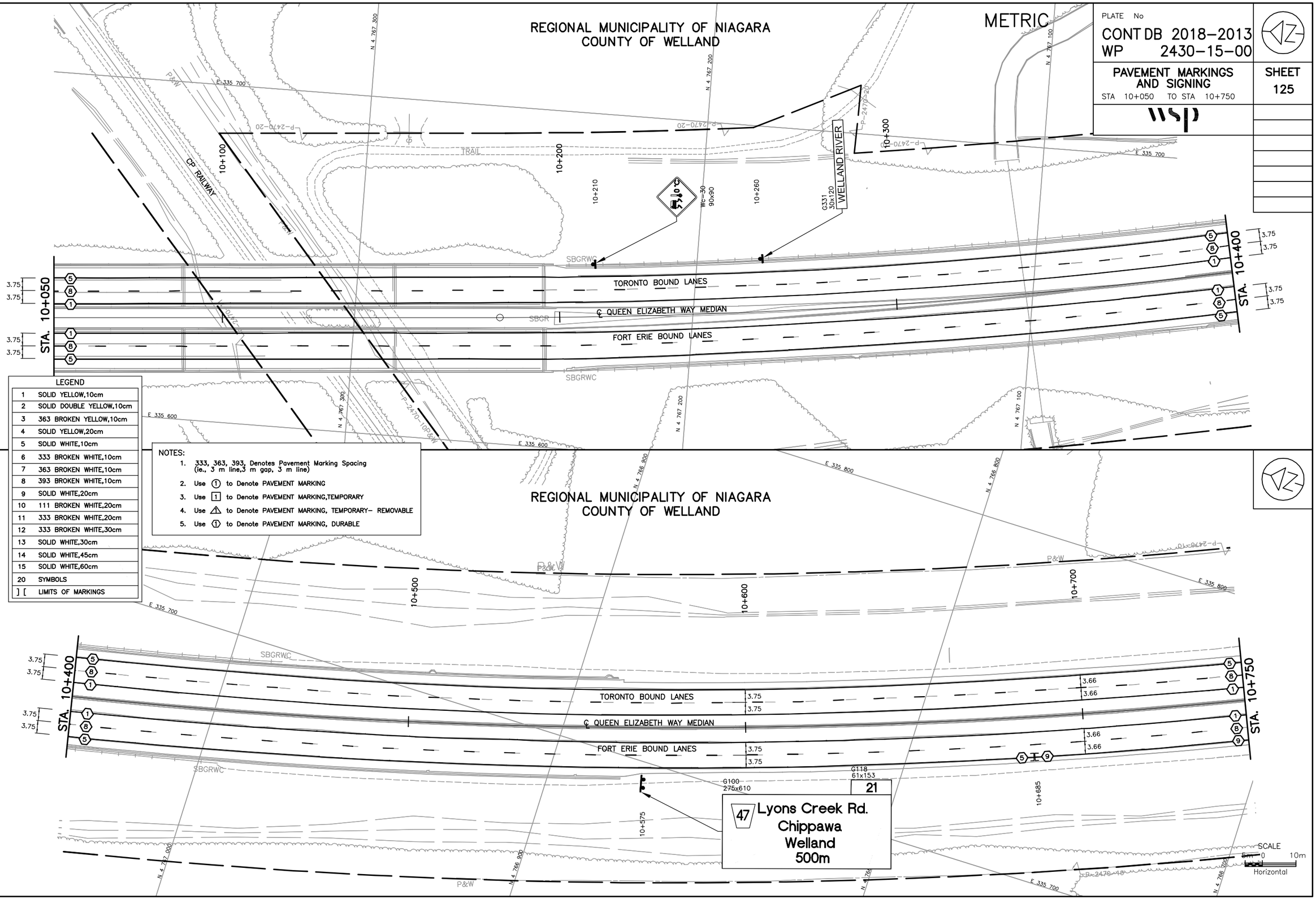
REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 10+050 TO STA 10+750

SHEET 125

wsp



LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700M06.DWG REVISED BY:-G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/20 13:55:50 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 10+750 TO STA 11+450

SHEET 126

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 10+750

STA. 11+100

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

3.50
3.66

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+100

STA. 11+450

TORONTO BOUND LANES

R=1750

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES
MATCH EXISTING

N-E/W RAMP

STA. 11+325

4.75
4.75
VAR.
3.66

G101
275x671

47 Lyons Creek Rd.
Chippawa
Welland

(NOTE 1)

NOTE:
1. INSTALL G101 ON EXISTING SIGN POSTS.

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
DRAWING NAME: H17M-01700M07.DWG REVISED BY=G. DEAN
DRAWN BY: G. DEAN MODIFIED: 18/09/20 14:00:58 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 11+450 TO STA 12+150

SHEET 127

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

STA. 11+450

STA. 11+800

STA. 12+150

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

E-N RAMP

E-S RAMP

W-N RAMP

W-S RAMP

S-E/W RAMP

LYONS CREEK ROAD

LYONS CREEK

4.75 VAR.

4.75 MATCH EXISTING

3.66 MATCH EXISTING

ASPH

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

LEVEL PAINTED DOT ON NE CORN BRIDGE OVER LYONS CREEK WP 714-93-00

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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DRAWN BY: G. DEAN MODIFIED: 18/09/20 14:03:27 Revised

METRIC

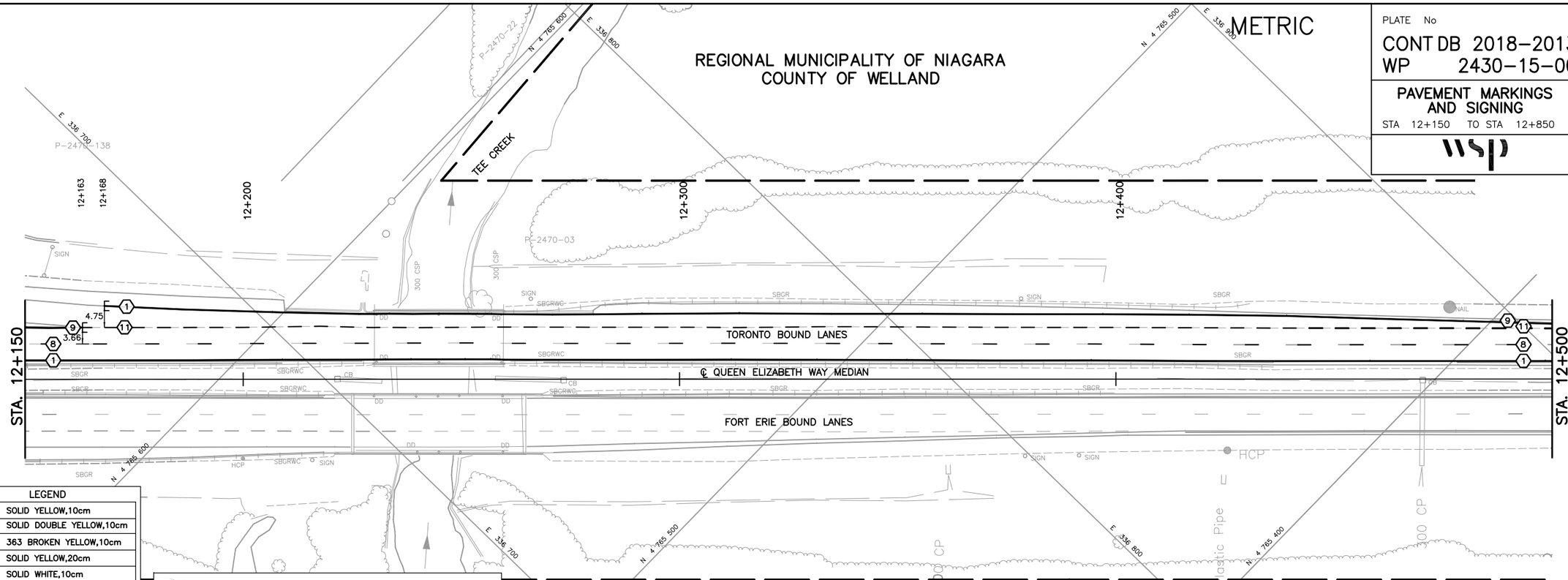
PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 12+150 TO STA 12+850

SHEET 128

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



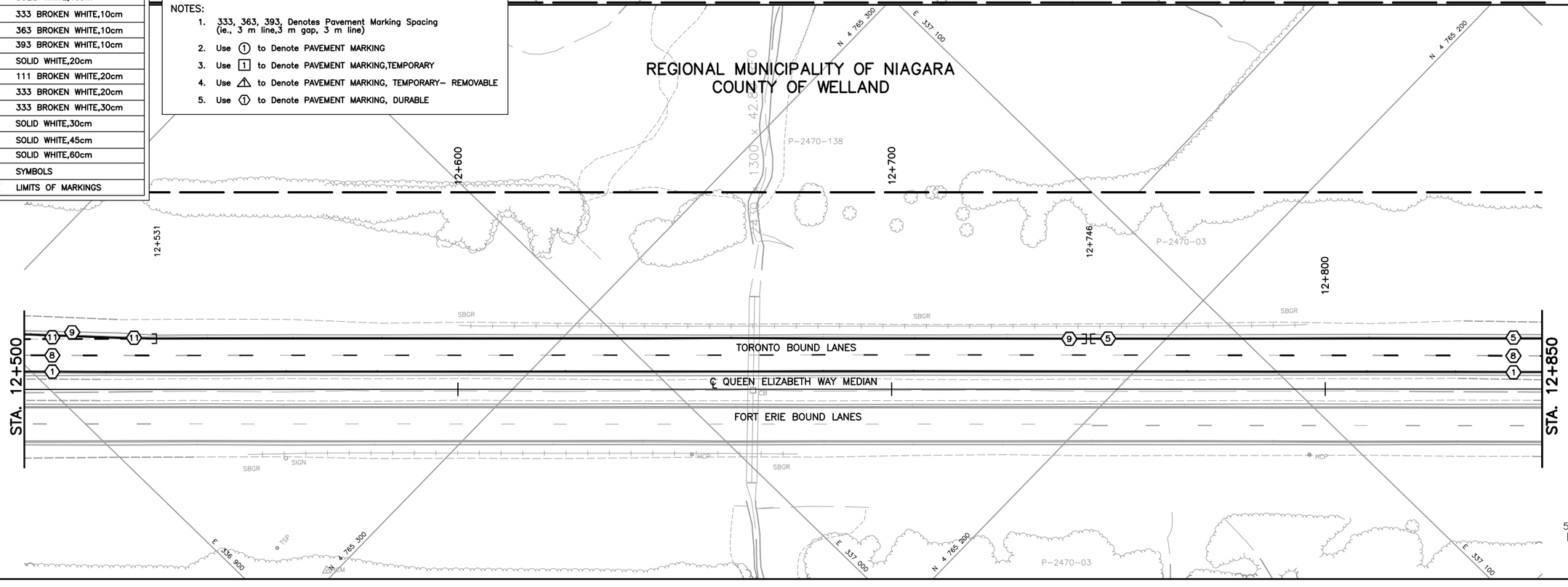
LEGEND

1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⟨1⟩ to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND



SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN MODIFIED: 18/09/20 14:07:28 Revised

METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 12+850 TO STA 13+572

SHEET 129

wsp

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

E 337 200 | 12+900 | 13+000 | 13+100 | 13+125 | N 4 765 100 | N 4 765 000

P-2470-0

STA. 12+850

3.66 (5)
3.66 (8)
(1)

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

(5) 3.66 MATCH EXISTING
(1) 3.66 MATCH EXISTING

STA. 13+200

P-2470-03

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
] [	LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠ to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use (1) to Denote PAVEMENT MARKING, DURABLE

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

E 337 300 | N 4 764 800 | 13+300 | 13+400 | 13+500 | N 4 764 700 | E 337 600

STA. 13+200

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

STA. 13+550

MARSHALL ROAD

P-2470-76

E 337 400 | N 4 764 800 | E 337 500 | N 4 764 700 | E 337 600

13+572 | 13+600 | BECK ROAD | E 337 700

LIMIT OF CONTRACT
STA. 17+900

STA. 13+550

MATCH EXISTING 3.66 (5)
(8)

TORONTO BOUND LANES

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

(5) 3.66 MATCH EXISTING
(8)

LIMIT OF PAVEMENT MARKINGS
STA. 13+672

N 4 764 600 | E 337 700

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

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DRAWING NAME: H17M-01700M10.DWG MODIFIED: 18/09/20 14:09:25 Revised
DRAWN BY: G. DEAN REVISED BY-G. DEAN

METRIC

PLATE No

CONT DB 2018-2013
WP 2430-15-00

PAVEMENT MARKINGS AND SIGNING
STA 11+325 TO STA 11+602

SHEET 130

wsp

℄ QUEEN ELIZABETH WAY MEDIAN

FORT ERIE BOUND LANES

ASPH

STA. 11+325

11+382

11+400

11+500

11+600

E 336 100

N 4 766 100

N 4 766 000

E 336 200

LIMIT OF CONTRACT
STA. 17+900

MATCH EXISTING

E 336 000

N-E/W RAMP

E-S RAMP

N-E RAMP

N-W RAMP

W-S RAMP

LYONS CREEK ROAD

11+570

11+576

11+581

11+602

LP-2470-60

REGIONAL MUNICIPALITY OF NIAGARA
COUNTY OF WELLAND

LEGEND	
1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
][	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line,3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING,TEMPORARY
4. Use ⚠1 to Denote PAVEMENT MARKING, TEMPORARY– REMOVABLE
5. Use ⓣ1 to Denote PAVEMENT MARKING, DURABLE

SCALE
5m 0 10m
Horizontal

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=I:\DRAWINGS\HIGHWAYS\17M-01700-00 WELLAND\
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DRAWN BY: G. DEAN MODIFIED: 18/10/24 14:31:44 Revised

METRIC

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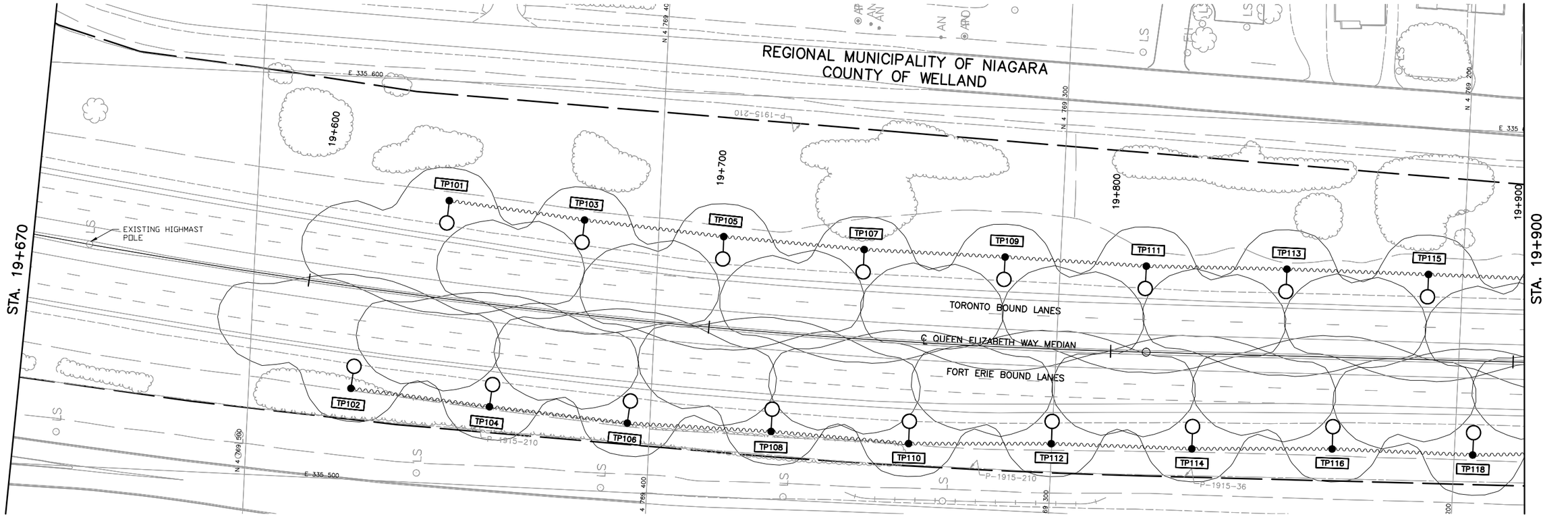
A. LUMINAIRE SPACING AND DESIGN TYPICAL FOR ALL CONSTRUCTION STAGES.

PLATE No
CONT DB 2018-2013
WP 2430-15-00

TEMPORARY LIGHTING
NORTH TRANSITION
STA 19+670 TO STA 19+900

SHEET
131

wsp



SCALE
5m 0 10m

MINISTRY OF TRANSPORTATION, ONTARIO FR-D-707 88-05

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DRAWN BY: G. DEAN MODIFIED: 18/10/09 10:25:40 Revised

METRIC

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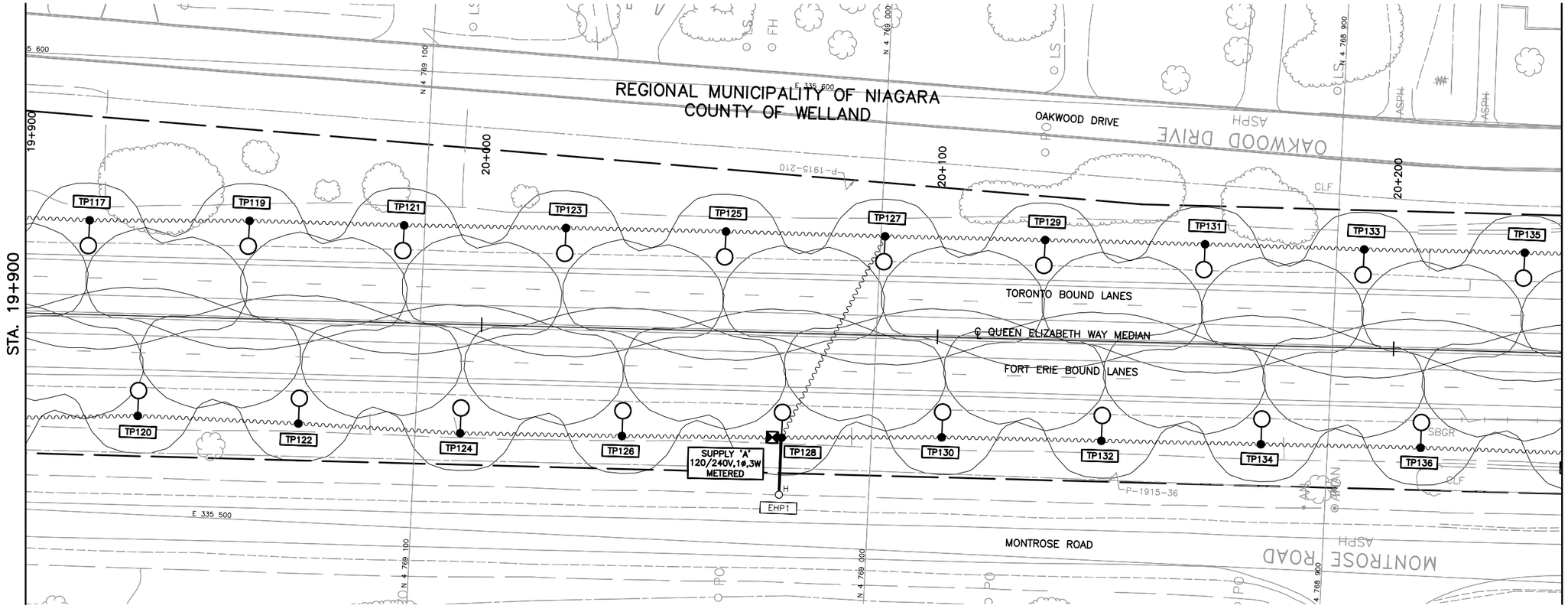
A. LUMINAIRE SPACING AND DESIGN TYPICAL FOR ALL CONSTRUCTION STAGES.

PLATE No
CONT DB 2018–2013
WP 2430–15–00

TEMPORARY LIGHTING
NORTH TRANSITION
STA 19+900 TO STA 20+235

SHEET
132

wsp



SCALE
5m 0 10m

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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METRIC

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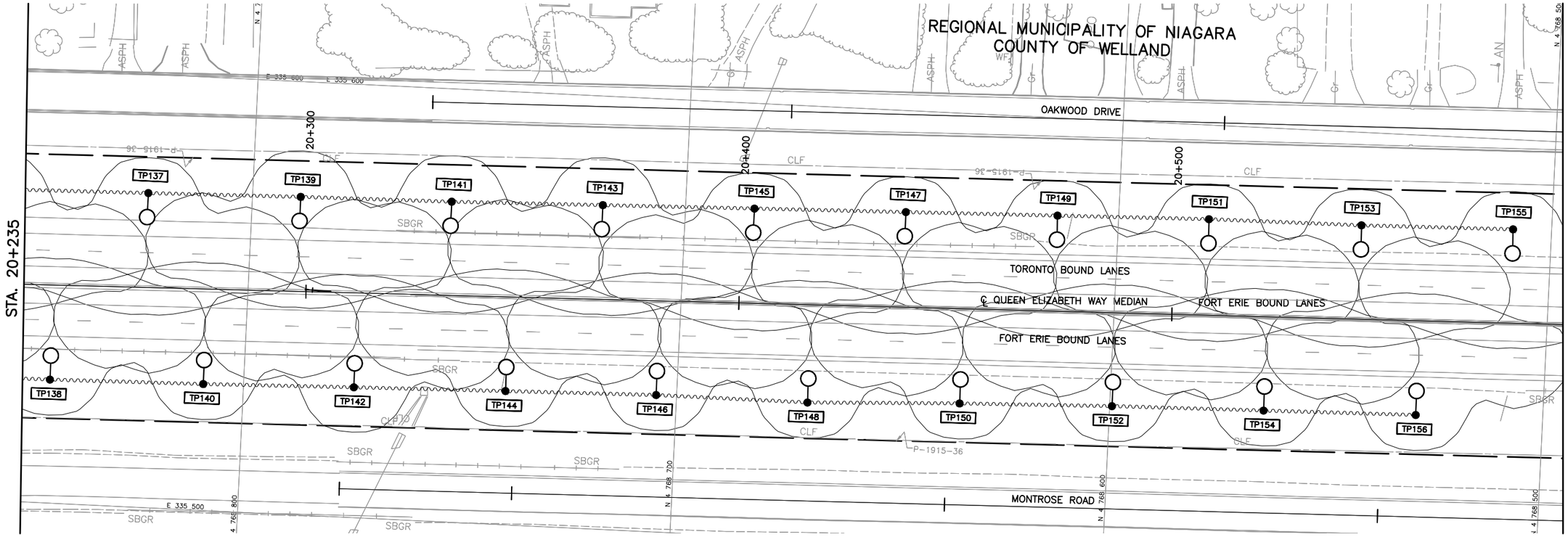
A. LUMINAIRE SPACING AND DESIGN TYPICAL FOR ALL CONSTRUCTION STAGES.

PLATE No
CONT DB 2018-2013
WP 2430-15-00

TEMPORARY LIGHTING
NORTH TRANSITION
STA 20+235 TO STA 20+590

SHEET
133

wsp



SCALE
5m 0 10m

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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METRIC

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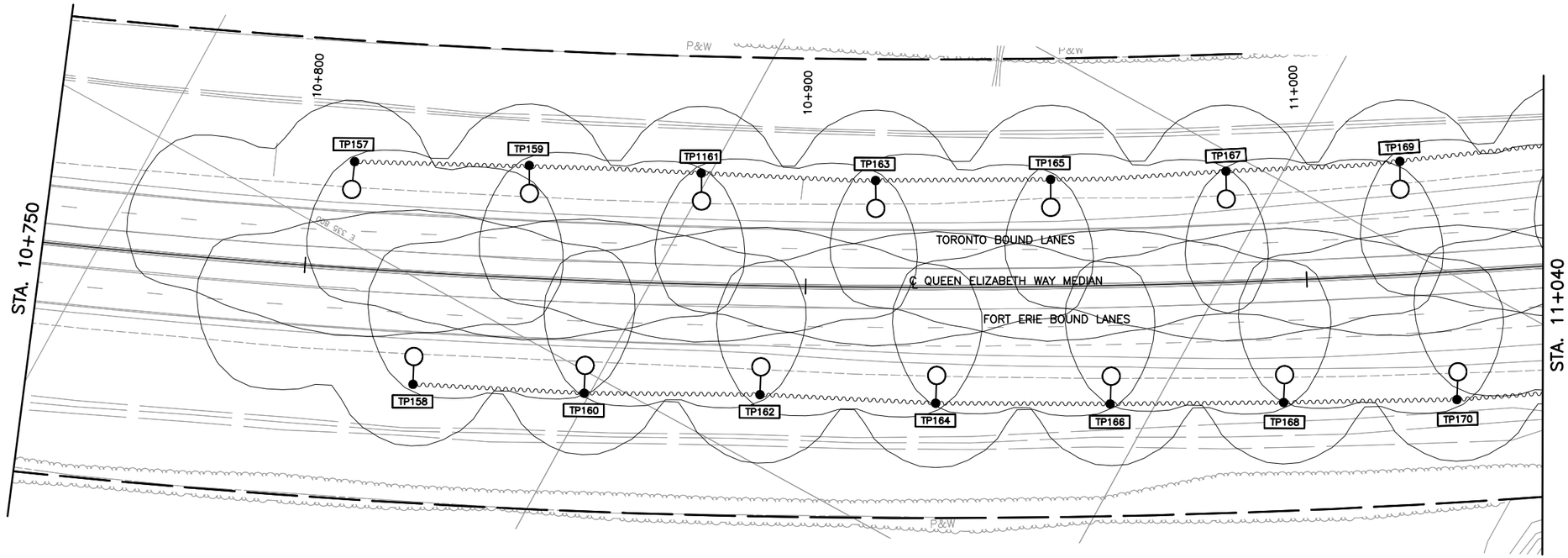
A. LUMINAIRE SPACING AND DESIGN TYPICAL FOR ALL CONSTRUCTION STAGES.

PLATE No
CONT DB 2018-2013
WP 2430-15-00

TEMPORARY LIGHTING
SOUTH TRANSITION
STA 10+750 TO STA 11+040

SHEET
134

wsp



SCALE
5m 0 10m

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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METRIC

GENERAL NOTE:

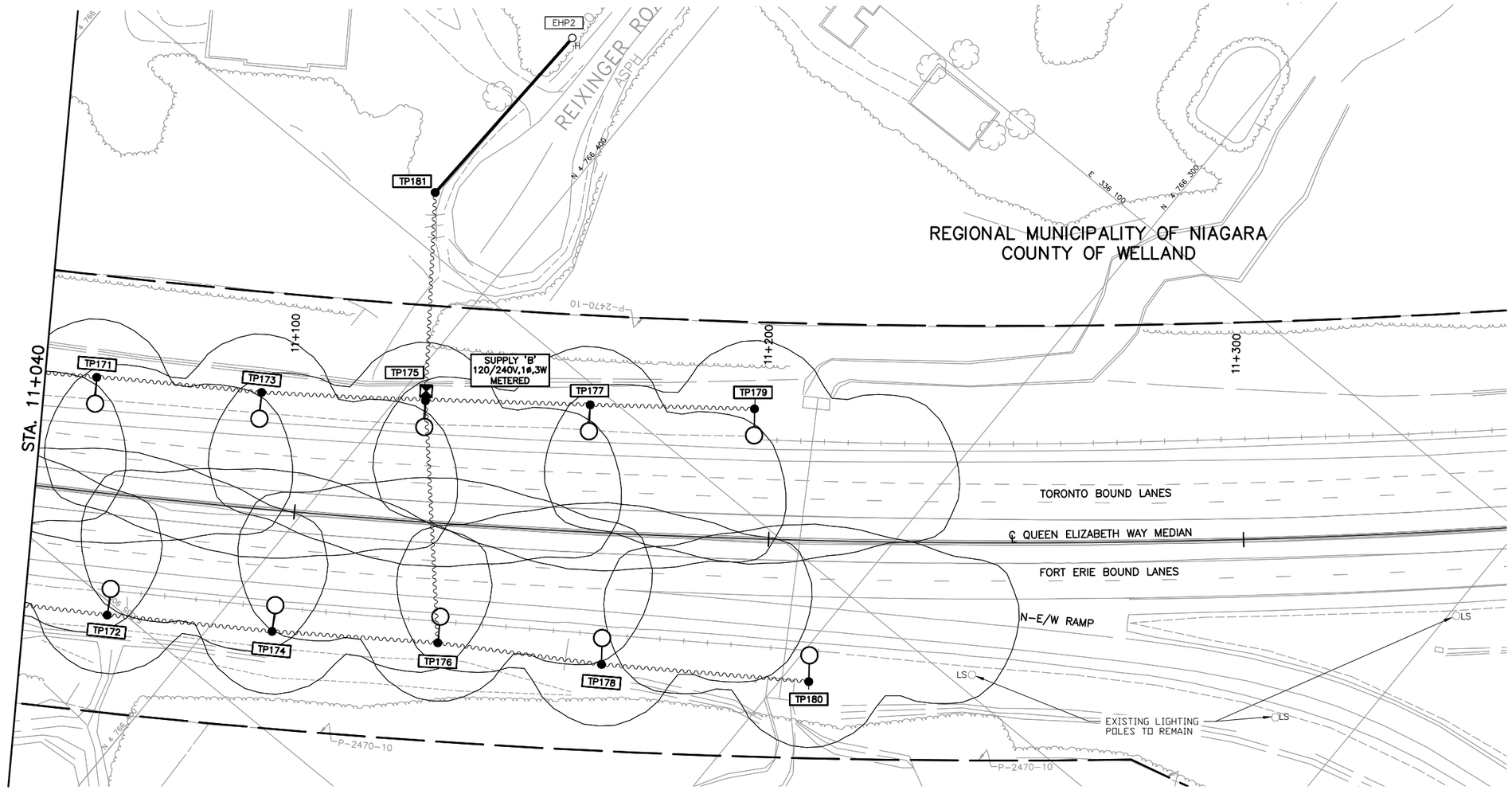
A. LUMINAIRE SPACING AND DESIGN TYPICAL FOR ALL CONSTRUCTION STAGES.

PLATE No
CONT DB 2018–2013
WP 2430–15–00

TEMPORARY LIGHTING
SOUTH TRANSITION
STA 11+040 TO STA 11+350

SHEET
135

wsp



SCALE
5m 0 10m

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

FILE LOCATION=S:\DATA\2017\17M-01700-00.200 - WELLAND\
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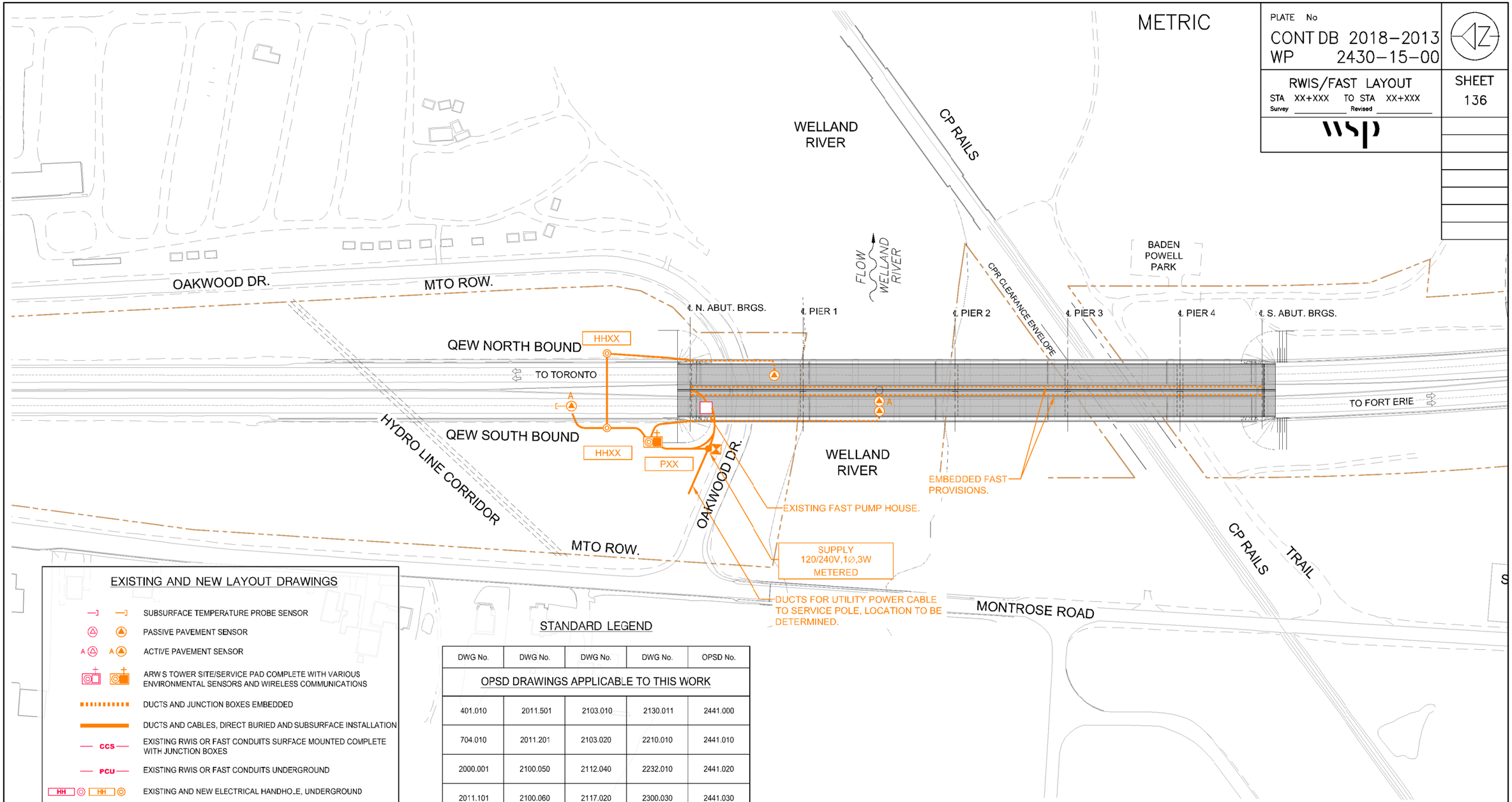
METRIC

PLATE No
CONT DB 2018-2013
WP 2430-15-00

RWIS/FAST LAYOUT
STA XX+XXX TO STA XX+XXX
Survey _____ Revised _____

wsp

SHEET
136



EXISTING AND NEW LAYOUT DRAWINGS

- SUBSURFACE TEMPERATURE PROBE SENSOR
- PASSIVE PAVEMENT SENSOR
- ACTIVE PAVEMENT SENSOR
- ARWS TOWER SITE/SERVICE PAD COMPLETE WITH VARIOUS ENVIRONMENTAL SENSORS AND WIRELESS COMMUNICATIONS
- DUCTS AND JUNCTION BOXES EMBEDDED
- DUCTS AND CABLES, DIRECT BURIED AND SUBSURFACE INSTALLATION
- CCS — EXISTING RWIS OR FAST CONDUITS SURFACE MOUNTED COMPLETE WITH JUNCTION BOXES
- PCU — EXISTING RWIS OR FAST CONDUITS UNDERGROUND
- HH — EXISTING AND NEW ELECTRICAL HANDHOLE, UNDERGROUND
- P — EXISTING AND NEW POLE
- POWER SUPPLY EQUIPMENT, POLE MOUNTED
- SUPPLY 120/240V, 1ø 3W METERED — POWER SUPPLY EQUIPMENT IDENTIFICATION CODE

STANDARD LEGEND

DWG No.	DWG No.	DWG No.	DWG No.	OPSD No.
OPSD DRAWINGS APPLICABLE TO THIS WORK				
401.010	2011.501	2103.010	2130.011	2441.000
704.010	2011.201	2103.020	2210.010	2441.010
2000.001	2100.050	2112.040	2232.010	2441.020
2011.101	2100.060	2117.020	2300.030	2441.030
2011.201	2101.010	2118.020	2302.050	2440.060
2011.401	2102.010	2123.030	2440.061	

SCALE
5m 0 10m
Horizontcl

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

CAD FILE LOCATION AND NAME: S:\data\2017\17M-01700-00.251-Welland River Bridges\17M-01700-00-PDR-N01.dwg
MODIFIED: 10/9/2018 9:53:06 AM BY: GARALDEN
DATE PLOTTED: 10/9/2018 9:53:15 AM BY: GARALDEN

METRIC

PLATE No
CONT DB 2018–2013
WP 2430–15–00

RWIS/FAST REMOVAL LAYOUT
STA XX+XXX TO STA XX+XXX
Survey _____ Revised _____

wsp

SHEET
137

OAKWOOD DR.

MTO ROW.

QEW NORTH BOUND

QEW SOUTH BOUND

HYDRO LINE CORRIDO,

CP RAILS

WELLAND RIVER

OAKWOOD DR.

MTO ROW.

WELLAND RIVER

CP RAILS

TRAIL

MONTROSE ROAD

CHIPPAWA CREEK ROAD

EXISTING RWIS STATION (43.047119, - 79.122017) TO BE REMOVED. IN ROAD SENSORS TO BE SALVAGED AND/OR REMOVED.

UTILITY METER ON WOOD POST TO BE REPLACED WITH NEW POLE MOUNTED POWER SUPPLY.

EXISTING FAST PUMP HOUSE COMPLETE WITH RWIS SUPPLY POWER FROM INSIDE; LOCATED UNDER BRIDGE.

EXISTING SURFACE MOUNT FAST CONDUITS AND JUNCTION BOXES. TO BE REMOVED IN CONJUNCTION WITH THE STRUCTURE REMOVAL WORKS.

EXISTING BRIDGE TO BE REMOVED (TYP).

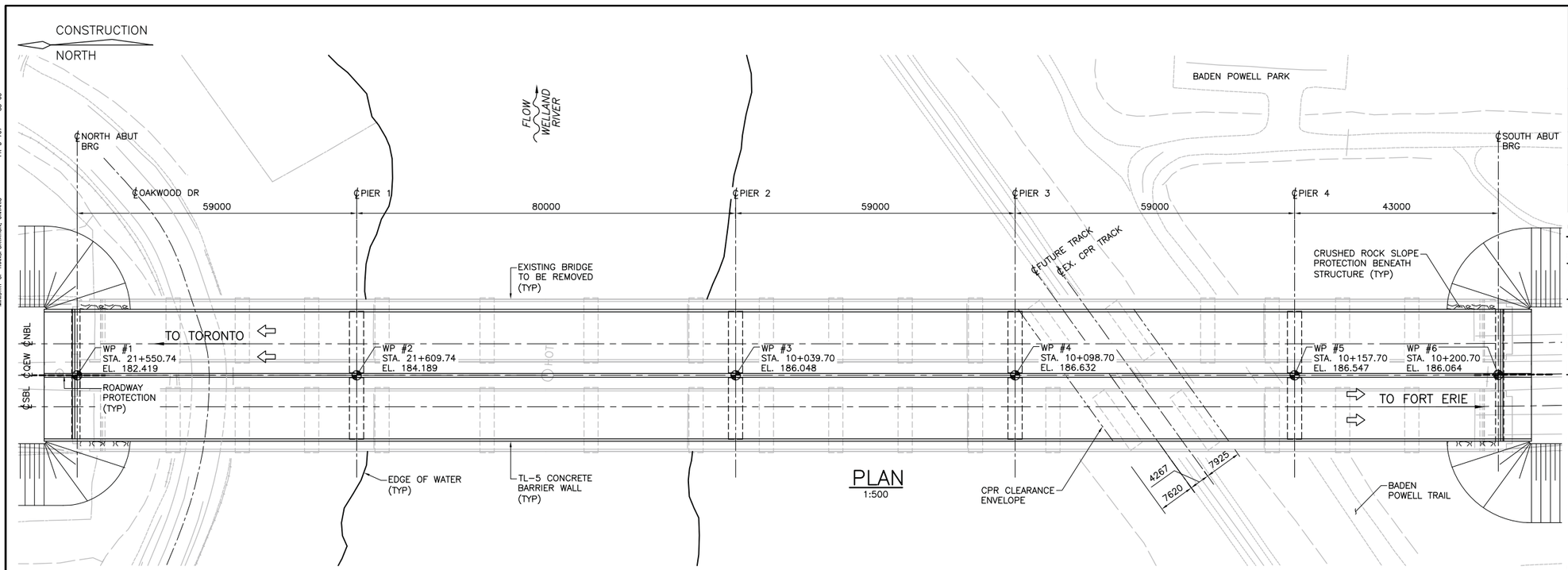
EXISTING AND NEW LAYOUT DRAWINGS

- SUBSURFACE TEMPERATURE PROBE SENSOR
- PASSIVE PAVEMENT SENSOR
- ACTIVE PAVEMENT SENSOR
- ARWIS TOWER SITE/SERVICE PAD COMPLETE WITH VARIOUS ENVIRONMENTAL SENSORS AND WIRELESS COMMUNICATIONS
- DUCTS AND JUNCTION BOXES EMBEDDED
- DUCTS AND CABLES, DIREC™ BURIED AND SUBSURFACE INSTALLATION
- CCS — EXISTING RWIS OR FAST CONDUITS SURFACE MOUNTED COMPLETE WITH JUNCTION BOXES
- PCU — EXISTING RWIS OR FAST CONDUITS UNDERGROUND
- HH — EXISTING AND NEW ELECTR CAL HANDHOLE, UNDERGROUND
- P — EXISTING AND NEW POLE
- POWER SUPPLY EQUIPMENT, POLE MOUNTED
- SUPPLY 120/240V, 1ø 3W METERED — POWER SUPPLY EQUIPMENT IDENTIFICATION CODE

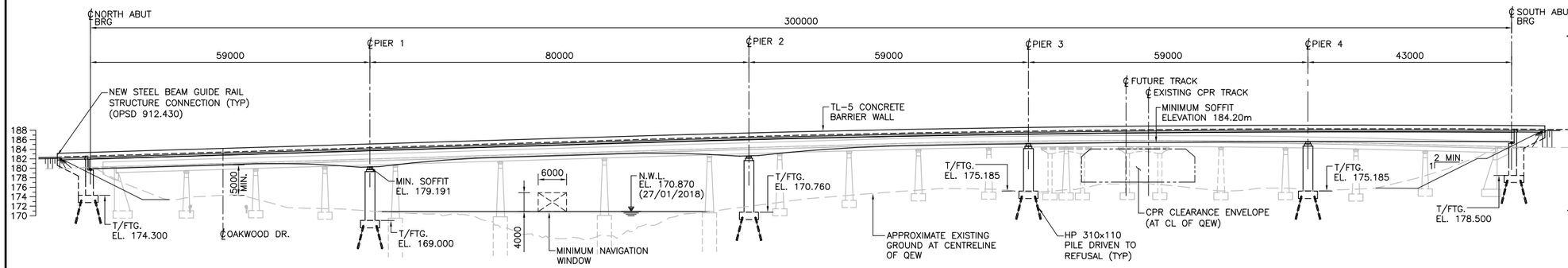
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Horizontcl

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

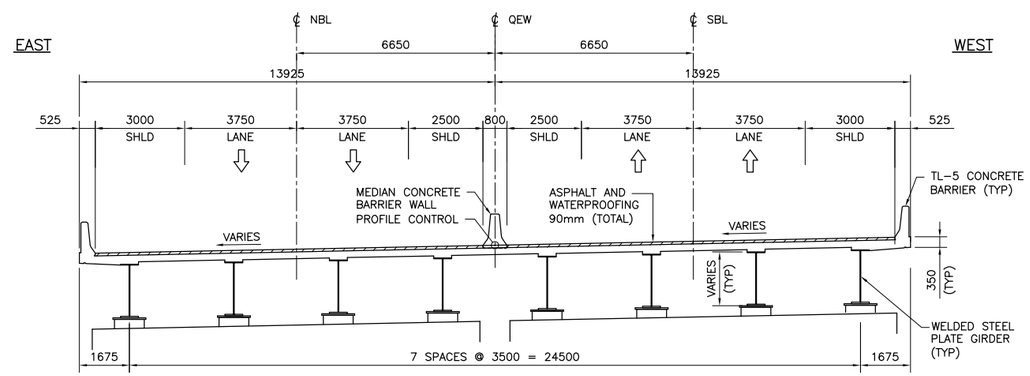
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DATE PLOTTED: 10/9/2018 9:55:19 AM BY: GARALDEN



PLAN
1:500

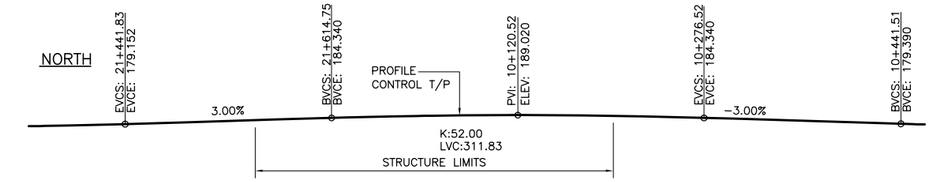


ELEVATION
1:500

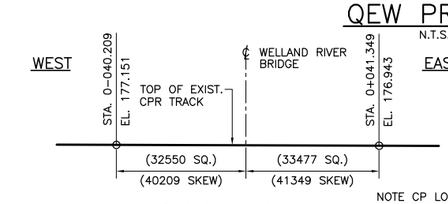


TYPICAL SECTION
1:100

NOTE: BARRIER THICKNESS MAY VARY TO ACCOMMODATE EMBEDDED WORKS (TYPICAL).



QEW PROFILE
N.T.S.



CPR PROFILE
1:750

NOTE CP LOCATION:
MILE 5.90 MONTROSE SUBDIVISION

DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

DISTRICT
CONT. No. 2018-2013
WP No.

REPLACEMENT OF QEW TWIN BRIDGES OVER WELLAND RIVER

PRELIMINARY GENERAL ARRANGEMENT

SHEET 138A

METRIC

GENERAL NOTES:

CLASS OF CONCRETE:

ALL CONCRETE	35 MPa

CLEAR COVER:

DECK	
TOP	70 ± 20mm
BOTTOM	40 ± 10mm
BOTTOM OF FOOTING	100 ± 20mm
REMAINDER	70 ± 20mm

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE GRADE 400W.
2. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS 'B.'
3. STAINLESS REINFORCING STEEL SHALL BE TYPE 316 LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500 MPa, UNLESS OTHERWISE SPECIFIED.
4. BAR MARKS WITH PREFIX 'S' DENOTES STAINLESS STEEL BARS.
5. BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS OTHERWISE INDICATED.
6. GLASS FIBRE REINFORCED POLYMER (GFRP) REINFORCING BARS SHALL BE GRADE III AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE NOMINAL DIAMETER, TENSILE MODULUS OF ELASTICITY AND GUARANTEED MINIMUM TENSILE STRENGTH SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.

CONSTRUCTION NOTES:

7. THE CONTRACTOR SHALL ESTABLISH THE BEARING SEAT ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESSES FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESSES ARE DIFFERENT FROM THOSE GIVEN WITH THE BEARING DESIGN DATA, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
8. PROTECTION SYSTEMS SHALL BE DESIGNED TO PERFORMANCE LEVEL 2 CRITERIA.
9. BARRIER WALLS SHALL INCLUDE LIGHT POLE BASES, FOR FUTURE ILLUMINATION, IN ACCORDANCE WITH OPSD-3360.100. LOCATION AND NUMBER OF BASES AS DETERMINED DURING DETAIL DESIGN.

APPLICABLE STANDARD DRAWINGS

OPSD 3101.150	WALLS – ABUTMENT, BACKFILL MINIMUM GRANULAR REQUIREMENTS
OPSD 3370.100	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD
OPSD 3370.101	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD
OPSD 4601.000	LOCATION OF SITE NUMBER AND DATE
OPSD 0911.382	MEDIAN BARRIER AND DOWEL CONNECTION
OPSD 0912.430	GUIDE RAIL AND CHANNEL ANCHORAGE

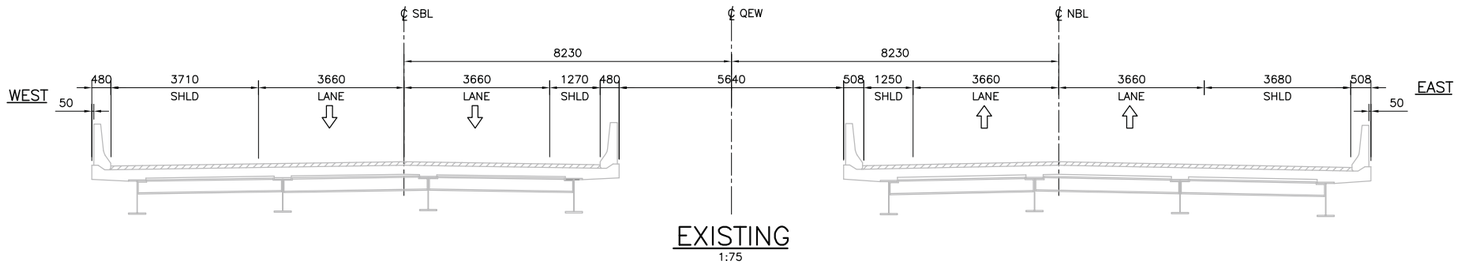
FOR INFORMATION PURPOSES ONLY

REVISIONS			
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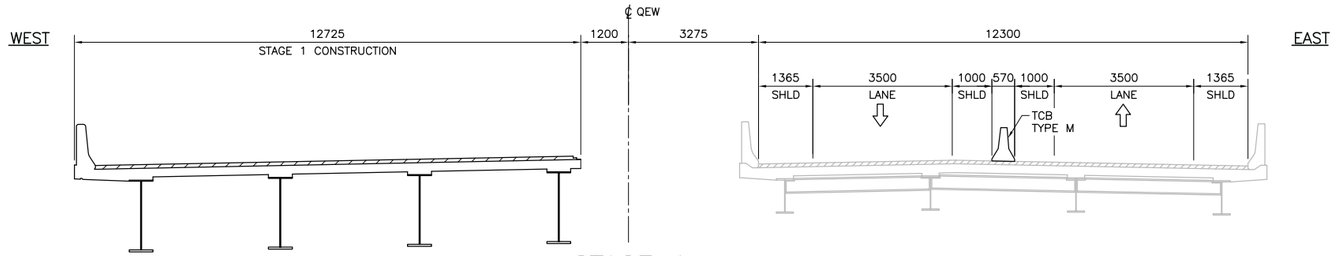
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MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

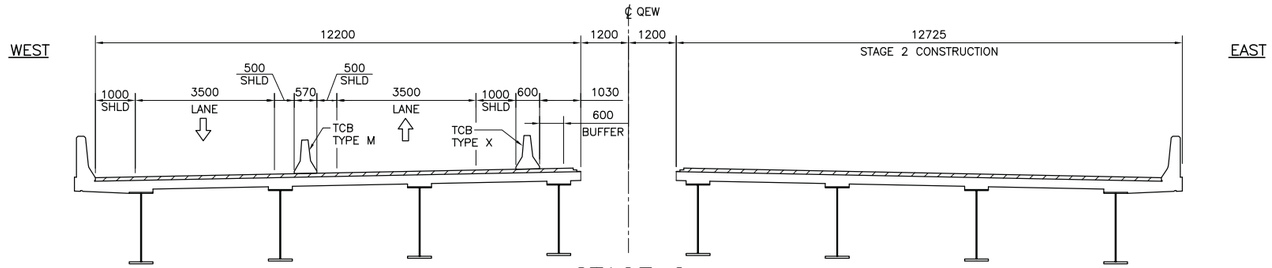
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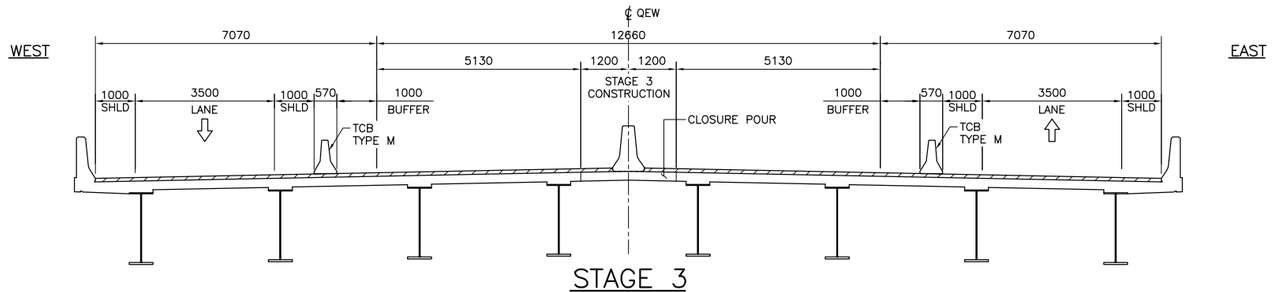
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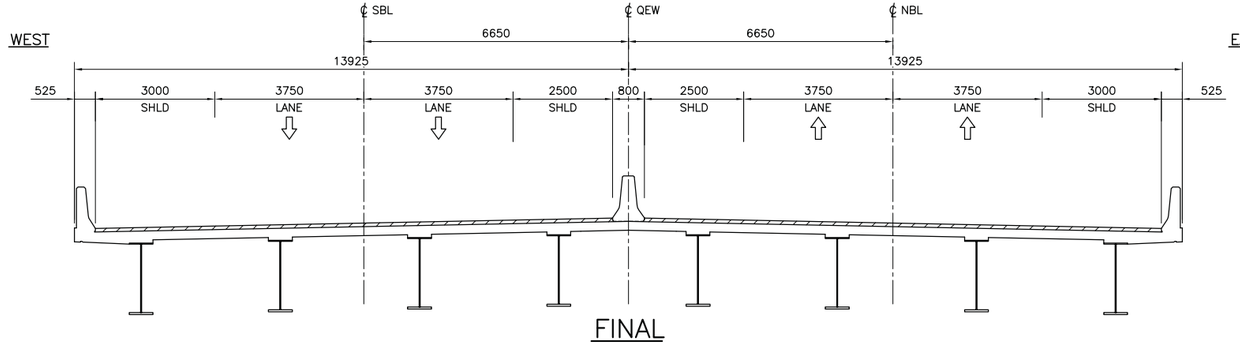
STAGE 1
1:75



STAGE 2
1:75



STAGE 3
1:75



FINAL
1:75

DISTRICT CONT. No. 2018-2013 WP No.	
REPLACEMENT OF QEW TWIN BRIDGES OVER WELLAND RIVER	SHEET 139
CONSTRUCTION STAGING	
wsp	METRIC

PRELIMINARY

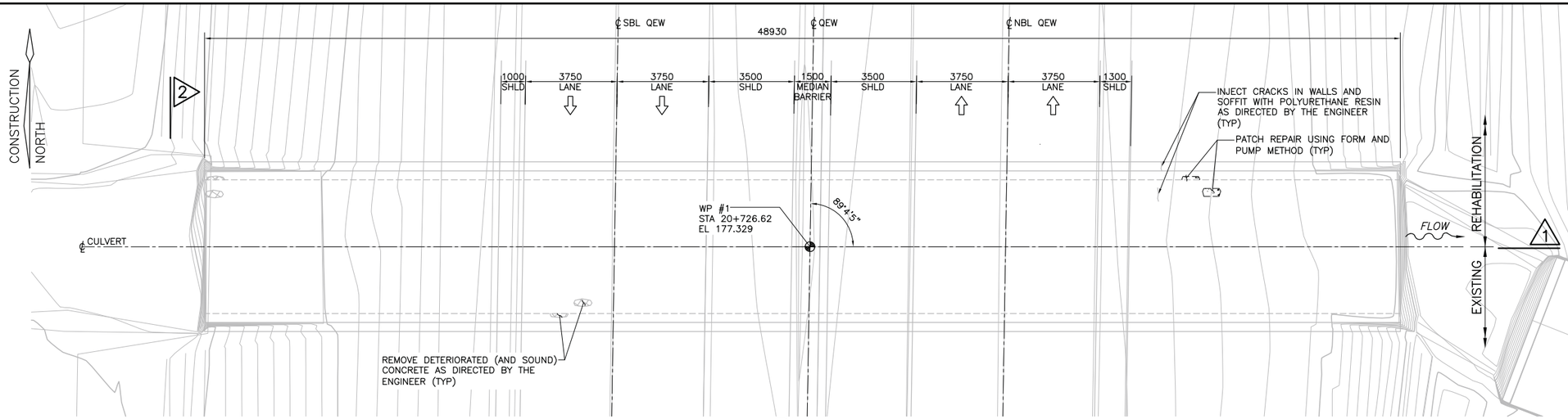
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REVISIONS			
	DATE	BY	DESCRIPTION

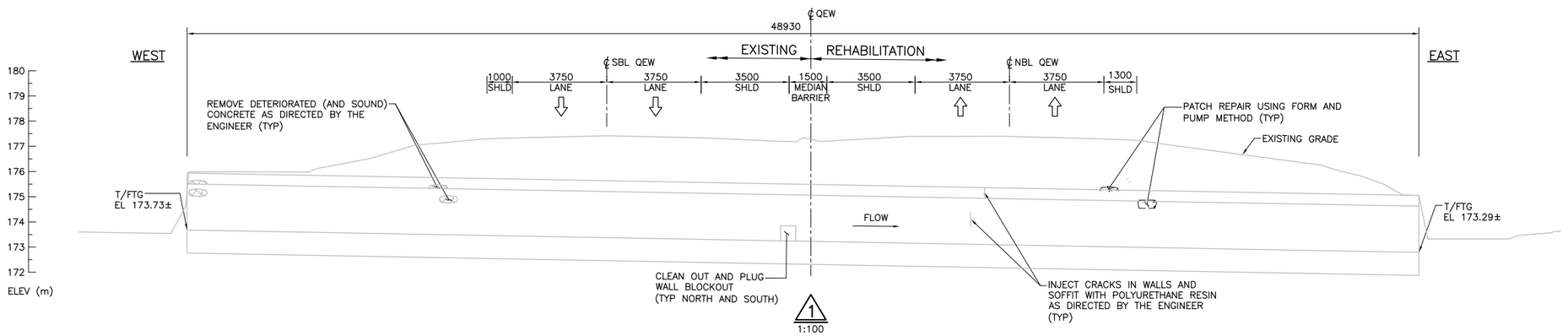
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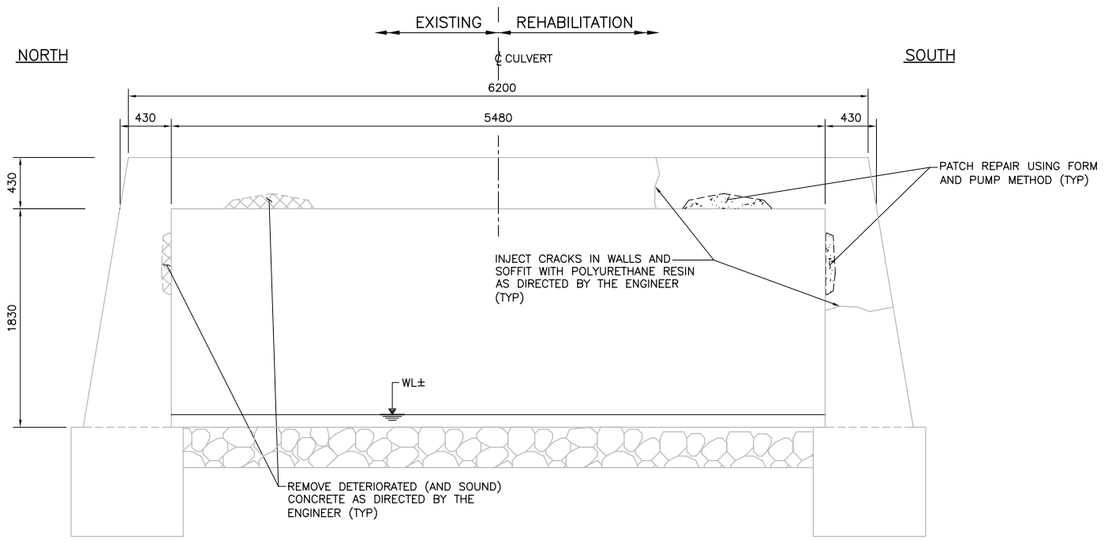
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

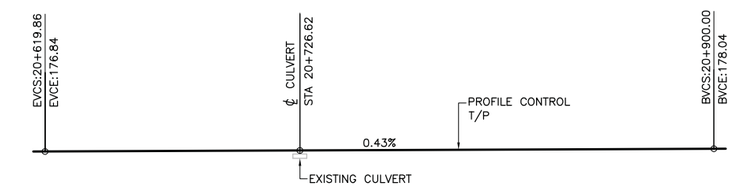
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PLAN
1:100







QEW PROFILE AT NORTH OF WELLAND RIVER CULVERT
1:1250

DISTRICT
CONT. No. 2018-2013
WP No.

QEW WARREN CREEK CULVERT REHABILITATION

GENERAL ARRANGEMENT

wsp

SHEET 140

METRIC

GENERAL NOTES:

CLASS OF CONCRETE:

ALL CONCRETE	30 MPa

CLEAR COVER:

BOTTOM OF TOP SLAB	40 ± 10mm
REMAINDER	MATCH EXISTING

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE GRADE 400W.
2. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS 'B.'
3. BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS OTHERWISE INDICATED.

CONSTRUCTION NOTES:

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS AND ELEVATIONS OF EXISTING STRUCTURE THAT ARE RELEVANT TO THE WORK SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR AND THE PROPOSED ADJUSTMENT OF THE WORK REQUIRED TO MATCH THE EXISTING STRUCTURE SHALL BE SUBMITTED FOR APPROVAL.
5. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ADEQUATE PROTECTION OF UTILITIES, SERVICES, ROADWAYS, ETC. DURING CONSTRUCTION OPERATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, RELOCATION, AND CONTINUOUS MONITORING OF TEMPORARY FLOW PASSAGE AND DEWATERING OPERATIONS. TEMPORARY FLOW PASSAGE AND DEWATERING OPERATIONS SHALL PERMIT THE FLOW OF WATER COURSES THROUGH OR AROUND THE WORK ZONE SUCH THAT THE WORK IS EXECUTED IN THE DRY FOR THE DURATION OF THE WORK.
7. IN ADDITION TO REMOVAL OF DETERIORATED CONCRETE, SOUND CONCRETE REMOVALS MAY ALSO BE REQUIRED TO ACHIEVE MINIMUM REMOVAL LIMITS.
8. AS A MINIMUM, ALL FULL DEPTH LEAKING CRACKS AND CRACKS WIDER THAN 1mm SHALL BE INJECTED.

LEGEND:

REMOVALS

ABBREVIATIONS:

CJ	–	DENOTES CONSTRUCTION JOINT
NBL	–	DENOTES NORTHBOUND LANE
T/FTG	–	DENOTES TOP OF FOOTING
SBL	–	DENOTES SOUTHBOUND LANES
WL	–	DENOTES WATER LEVEL
WP	–	DENOTES WORKING POINT
T/P	–	DENOTES TOP OF PAVEMENT

PRELIMINARY

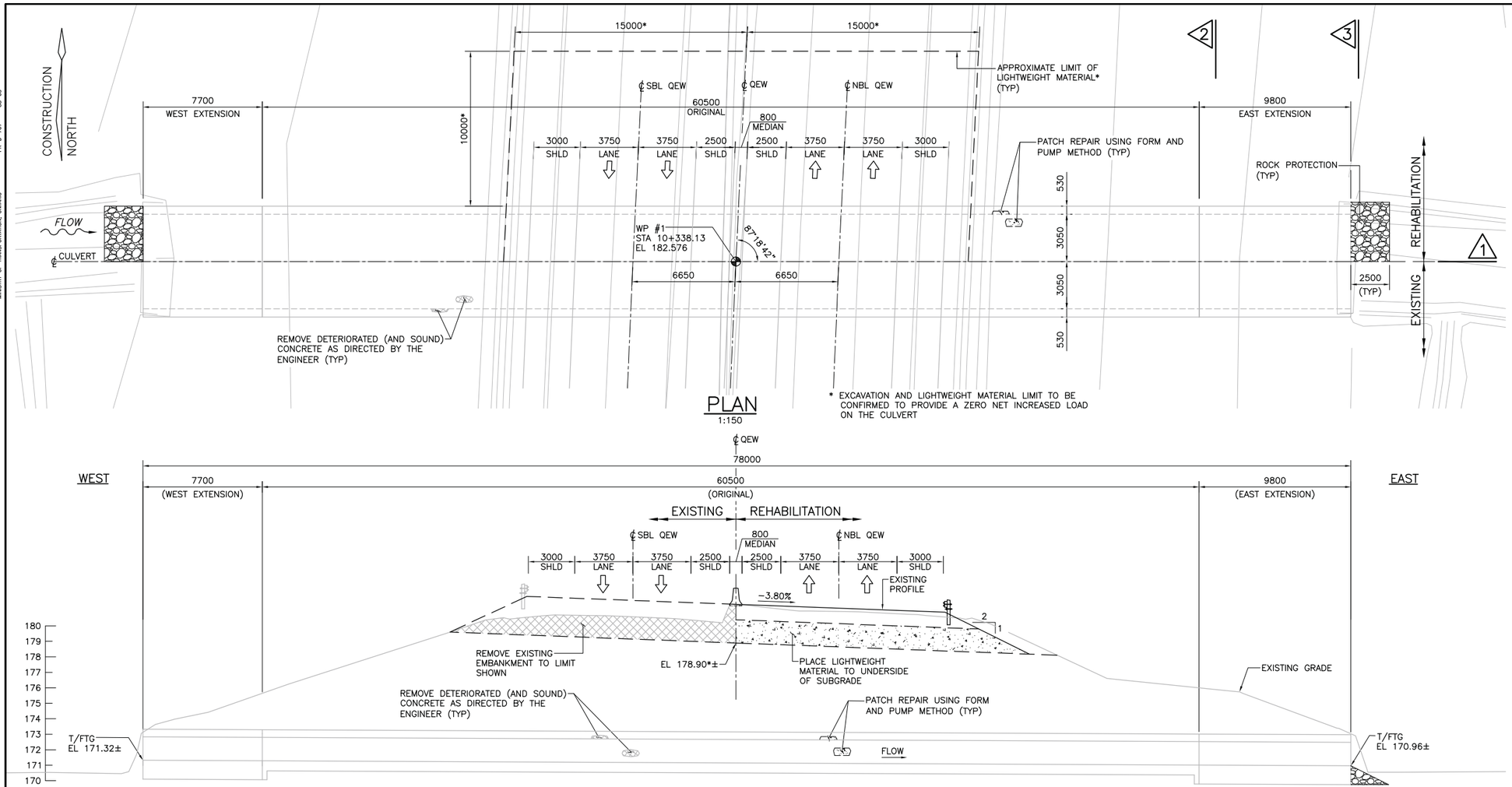
DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

REVISIONS			
	DATE	BY	DESCRIPTION

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MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

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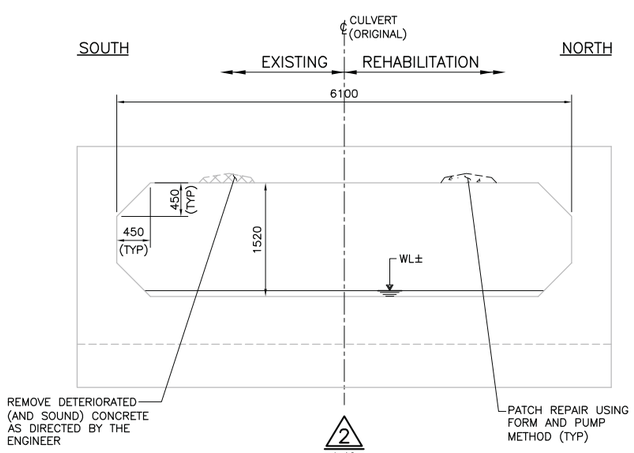


PLAN
1:150

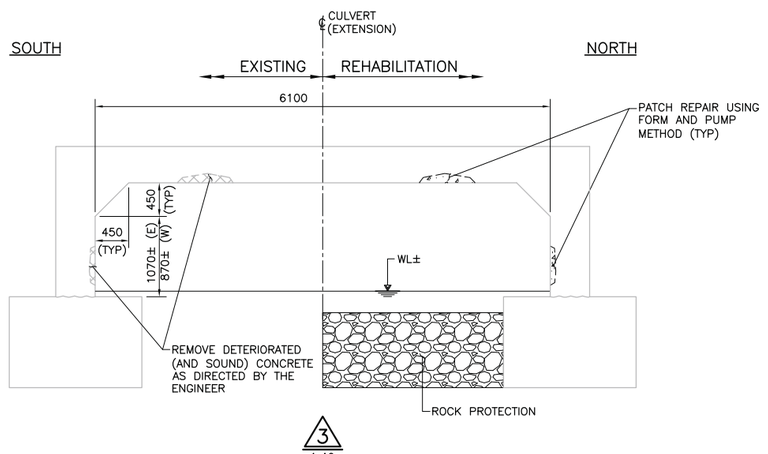
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1
1:150

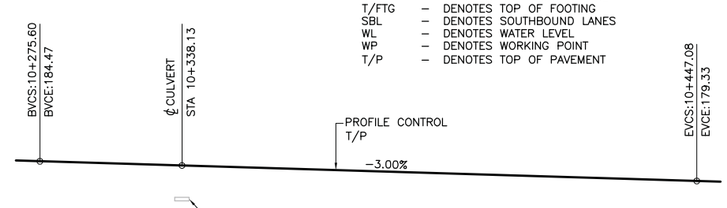
* EXCAVATION AND LIGHTWEIGHT MATERIAL LIMIT TO BE CONFIRMED TO PROVIDE A ZERO NET INCREASED LOAD ON THE CULVERT



2
1:40



3
1:40



QEW PROFILE AT CULVERT
N.T.S.

DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

PRELIMINARY

DISTRICT
CONT. No. 2018-2013
WP No.

QEW GRASSY BROOK CULVERT REHABILITATIONS

GENERAL ARRANGEMENT

SHEET 141

METRIC

GENERAL NOTES:

CLASS OF CONCRETE:

ALL CONCRETE	30 MPa

CLEAR COVER:

BOTTOM OF TOP SLAB	40 ± 10mm
REMAINDER	MATCH EXISTING

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE GRADE 400W.
2. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS 'B.'
3. BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS OTHERWISE INDICATED.

CONSTRUCTION NOTES:

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6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, RELOCATION, AND CONTINUOUS MONITORING OF TEMPORARY FLOW PASSAGE AND DEWATERING OPERATIONS. TEMPORARY FLOW PASSAGE AND DEWATERING OPERATIONS SHALL PERMIT THE FLOW OF WATER COURSES THROUGH OR AROUND THE WORK ZONE SUCH THAT THE WORK IS EXECUTED IN THE DRY FOR THE DURATION OF THE WORK.
7. IN ADDITION TO REMOVAL OF DETERIORATED CONCRETE, SOUND CONCRETE REMOVALS MAY ALSO BE REQUIRED TO ACHIEVE MINIMUM REMOVAL LIMITS.
8. TERMINATION OF LIGHTWEIGHT MATERIAL PERPENDICULAR TO THE QEW SHALL BE TAPERED AT 5H:1V.
9. SEE HIGHWAY DRAWINGS FOR LIGHT MATERIAL REQUIREMENTS BEYOND THE CULVERT.

LEGEND:

REMOVALS

ABBREVIATIONS:

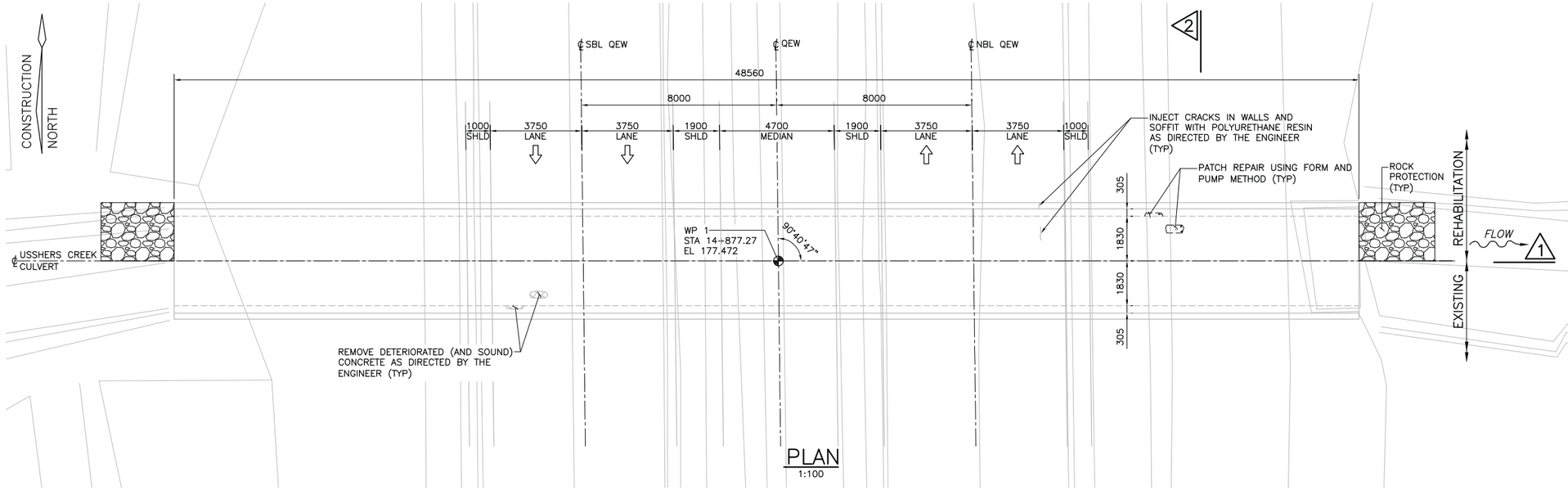
CJ	–	DENOTES CONSTRUCTION JOINT
NBL	–	DENOTES NORTHBOUND LANE
T/FTG	–	DENOTES TOP OF FOOTING
SBL	–	DENOTES SOUTHBOUND LANES
WL	–	DENOTES WATER LEVEL
WP	–	DENOTES WORKING POINT
T/P	–	DENOTES TOP OF PAVEMENT

REVISIONS			
	DATE	BY	DESCRIPTION

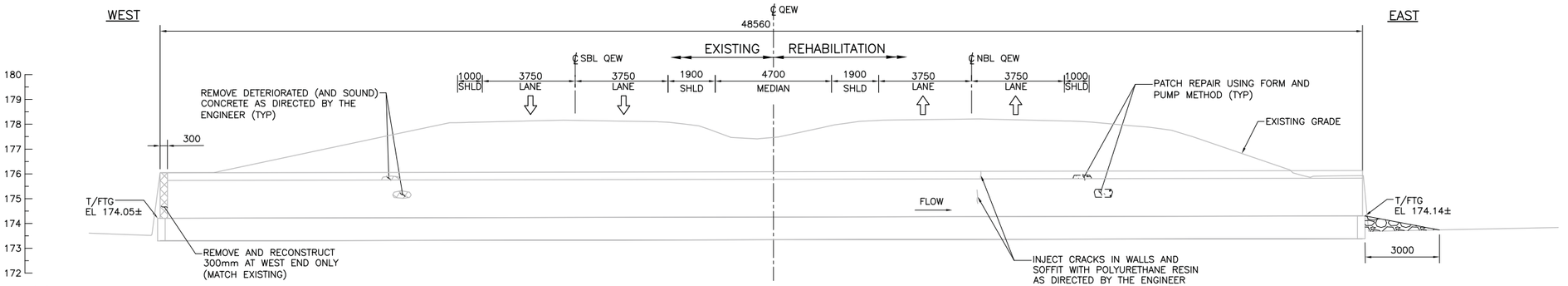
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MINISTRY OF TRANSPORTATION, ONTARIO 88-05 PR-D-707

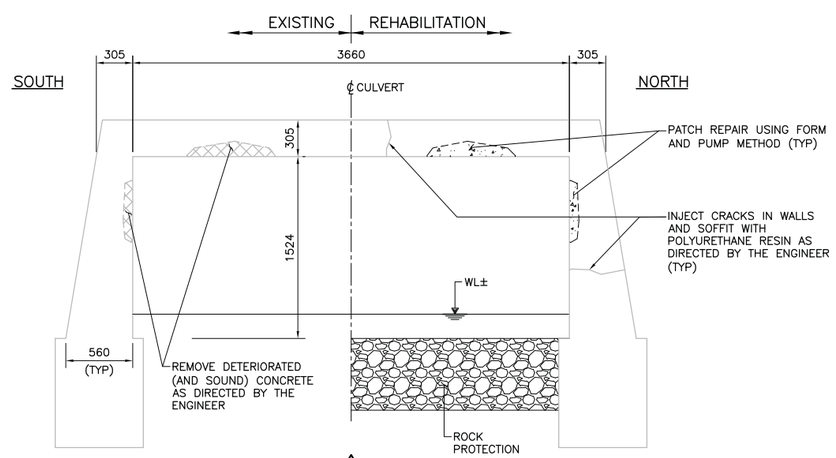
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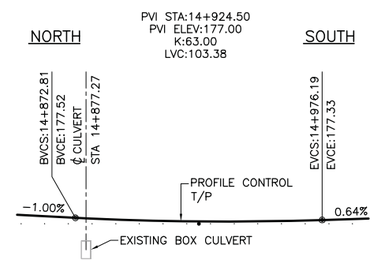
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1:100



1:100



1:25



QEW PROFILE AT USSHER'S CREEK

N.T.S.

DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

DISTRICT
CONT. No. 2018–2013
WP No.

QEW USSHERS CREEK CULVERT REHABILITATION

GENERAL ARRANGEMENT

wsp

SHEET 142

METRIC

GENERAL NOTES:

CLASS OF CONCRETE:

ALL CONCRETE	30 MPa

CLEAR COVER:

BOTTOM OF TOP SLAB	40 ± 10mm
REMAINDER	MATCH EXISTING

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE GRADE 400W.
2. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS 'B.'
3. BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12–1, UNLESS OTHERWISE INDICATED.

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8. AS A MINIMUM ALL, FULL DEPTH LEAKING CRACKS AND CRACKS WIDER THAN 1mm SHALL BE INJECTED.

LEGEND:

REMOVALS

ABBREVIATIONS:

CJ	–	DENOTES CONSTRUCTION JOINT
NBL	–	DENOTES NORTHBOUND LANE
T/FTG	–	DENOTES TOP OF FOOTING
SBL	–	DENOTES SOUTHBOUND LANES
WL	–	DENOTES WATER LEVEL
WP	–	DENOTES WORKING POINT
T/P	–	DENOTES TOP OF PAVEMENT

PRELIMINARY

REVISIONS			
DATE	BY	DESCRIPTION	
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MINISTRY OF TRANSPORTATION, ONTARIO PR–D–707 88–05
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