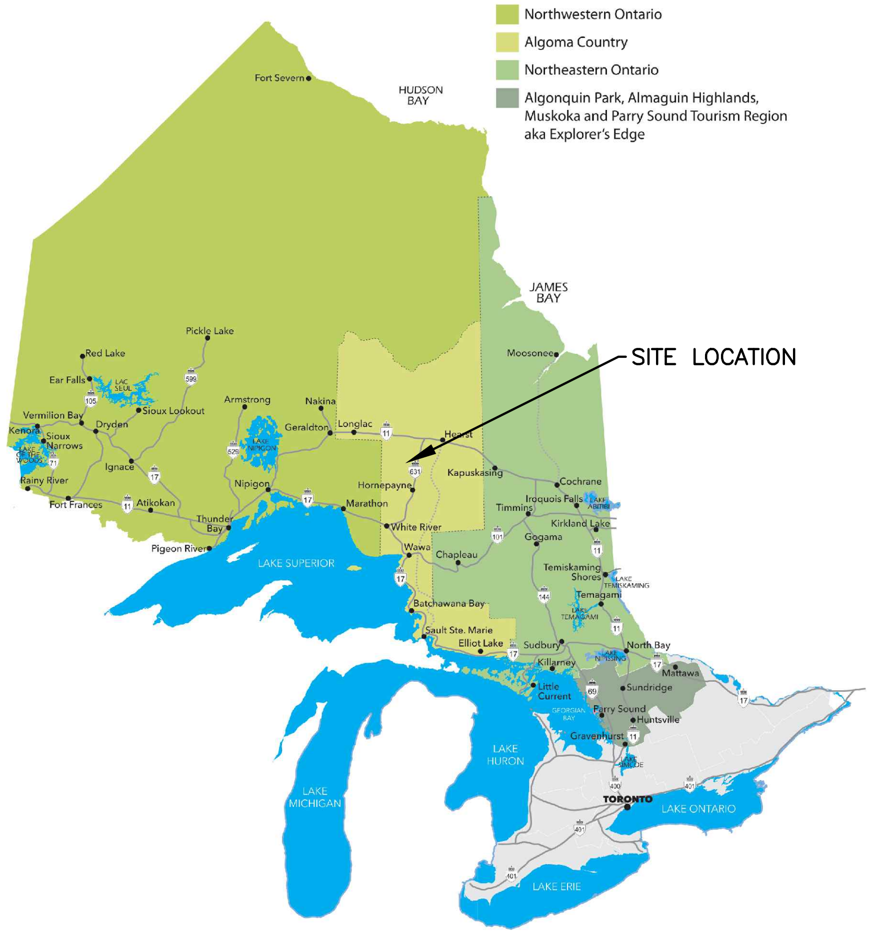
THIRD AVENUE RECONSTRUCTION
HORNEPAYNE, ONTARIO

CONSTRUCTION DRAWINGS

RFP-NO.2025-04-14



N.T.S.
This drawing may not be drawn to any particular scale.

KEYPLAN
ONTARIO, CANADA

N.T.S.
This drawing may not be drawn to any particular scale.

SITE LOCATION PLAN
HORNEPAYNE, ONTARIO, CANADA

9+940

CONTRACT LIMITS
RFP-NO.2025-04-14

11+087

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

NORTH ROCK ENGINEERING

70 Second St.
Thunder Bay, ON, P7B 3C9
Tel: 807-620-8431
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CLIENT
TOWNSHIP OF HORNEPAYNE

PROJECT
THIRD AVENUE RECONSTRUCTION
RFP-NO.2025-04-14

TITLE
KEY PLAN

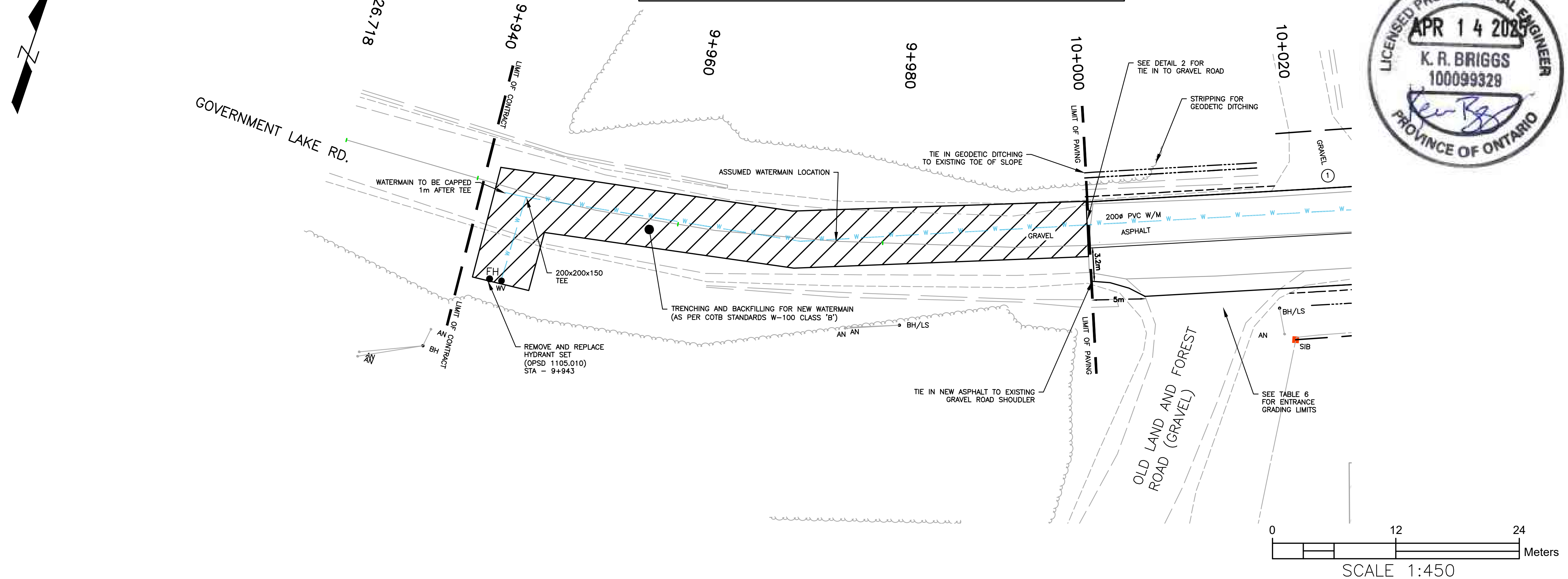
PROJECT NO.
E23-089-01

DATE
14.04.2025

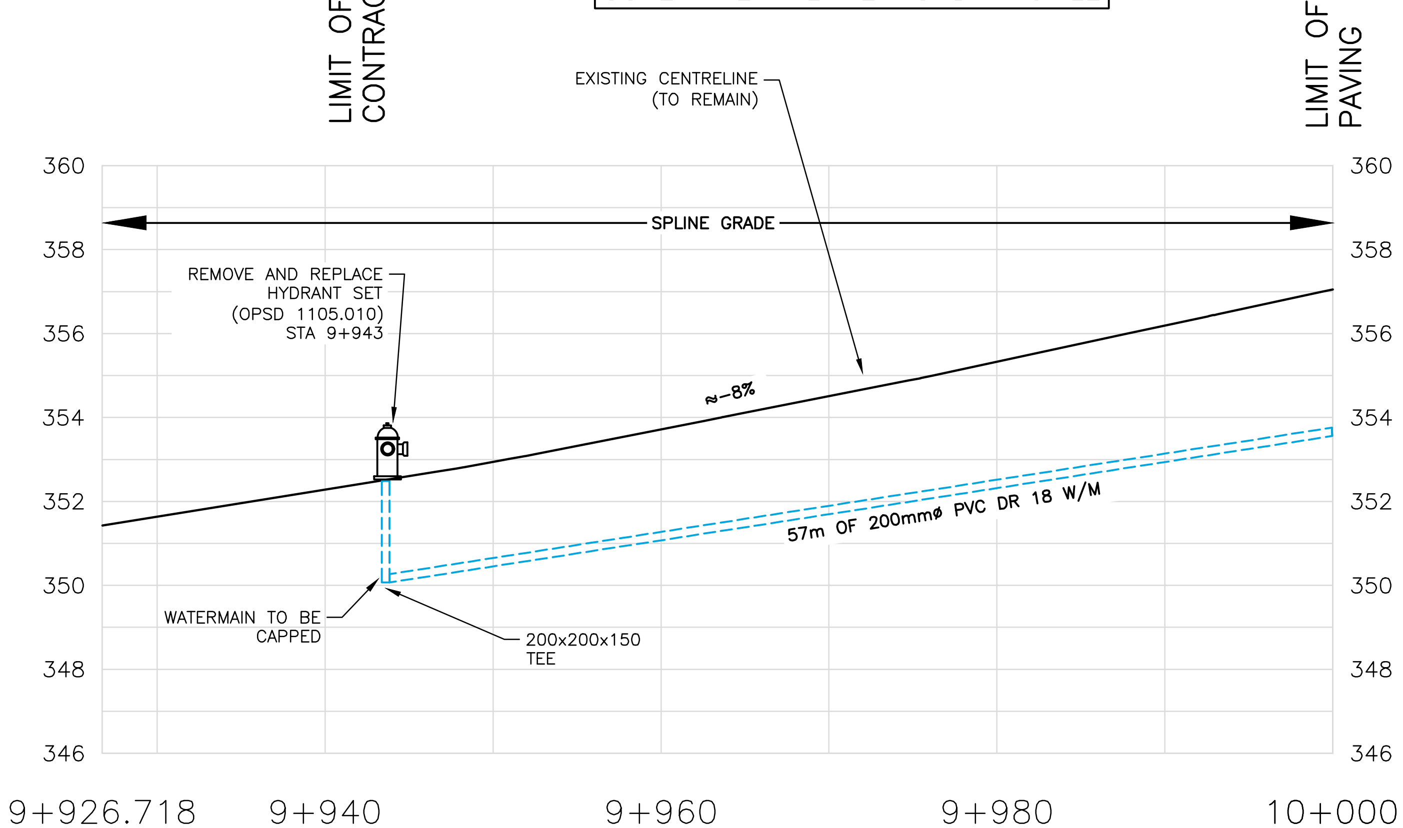
REV NO.
0

FIGURE NO.

GOVERNMENT LAKE ROAD / THIRD AVENUE SURFACE



GOVERNMENT LAKE ROAD PROFILE



NOTES

1. WATER MAIN DEPTH ASSUMED TO BE BETWEEN 2m–3m AND LOCATIONS ARE ASSUMED.
2. ALL WATER COMPONENTS TO BE REPLACED IN EXISTING LOCATION UNLESS OTHERWISE NOTED.
3. WATERMAIN ONLY TO BE REPLACED, GRAVEL ROADWAY TO BE RESTORED AFTER INSTALL.

LEGEND

EXISTING / NEW

- GRAVEL SHOULDER
- VEGETATED AREA
- ASPHALT EDGE
- AN ANCHOR
- WV WATER VALVE
- FH FIRE HYDRANT
- MH MAINTENANCE HOLE
- FENCE LINE
- BH BELL/HYDRO POLE
- CULVERT
- DRAINAGE DITCH
- CS CURB STOP VALVE
- SAN MAIN LINE
- SAN PVT CONNECT.
- WATERMAIN
- WATER PVT CONNECT.
- BENCHMARK
- PROPERTY MONUMENT
- EXISTING STRUCTURE
- DRIVEWAY/CULVERT NUMBER

NOTES

1. PROPERTY LINES ARE APPROXIMATE
2. PRIVATE SEWER AND WATER CONNECTIONS ARE ASSUMED AND APPROXIMATE AND TO BE REPLACED TO CURB STOP OR PROPERTY LINE
3. ALL DRIVEWAYS TO BE REINSTATED IN EQUAL OR BETTER CONDITION.
4. REFER TO DETAIL 4 FOR GEODETIC DITCH ELEVATIONS.
5. ALL DRIVEWAY, SIDE ROAD AND CENTRELINE CULVERT DETAILS TO BE FOUND IN TABLES 1 AND 2.
6. ALL OFFSETS ARE GIVEN FROM THE NEW THIRD AVENUE ALIGNMENT.
7. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.

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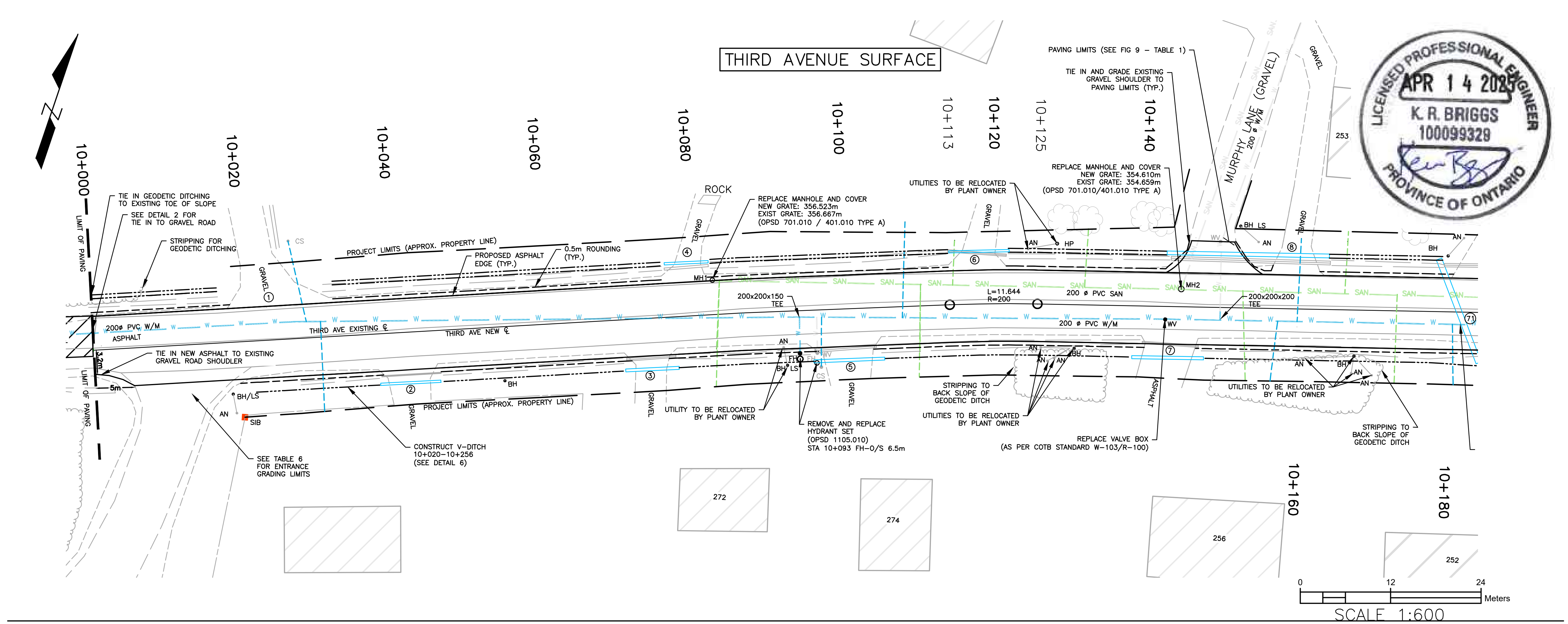
TITLE
THIRD AVENUE CONSTRUCTION DRAWINGS

PROJECT NO. 23–089–01
DATE 14.04.2025
REV NO. 0
FIGURE NO. 01

THIRD AVENUE SURFACE



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APR 1 4 2025
K. R. BRIGGS
100099329
PROVINCE OF ONTARIO

LEGEND

EXISTING		NEW
	GRAVEL SHOULDER	
	VEGETATED AREA	
	ASPHALT EDGE	
AN	ANCHOR	AN
WV	WATER VALVE	WV
FH	FIRE HYDRANT	FH
MH	MAINTENANCE HOLE	MH
	FENCE LINE	
BH	BELL/HYDRO POLE	BH
	CULVERT	
	DRAINAGE DITCH	
CS	CURB STOP VALVE	
SAN	SAN MAIN LINE	SAN
	SAN PVT CONNECT.	
W	WATERMAIN	W
	WATER PVT CONNECT.	
	BENCHMARK	
	PROPERTY MONUMENT	
	EXISTING STRUCTURE	
	DRIVEWAY/CULVERT NUMBER	

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SUBMISSION	DRN	CHK	DES	DD.MM.YY
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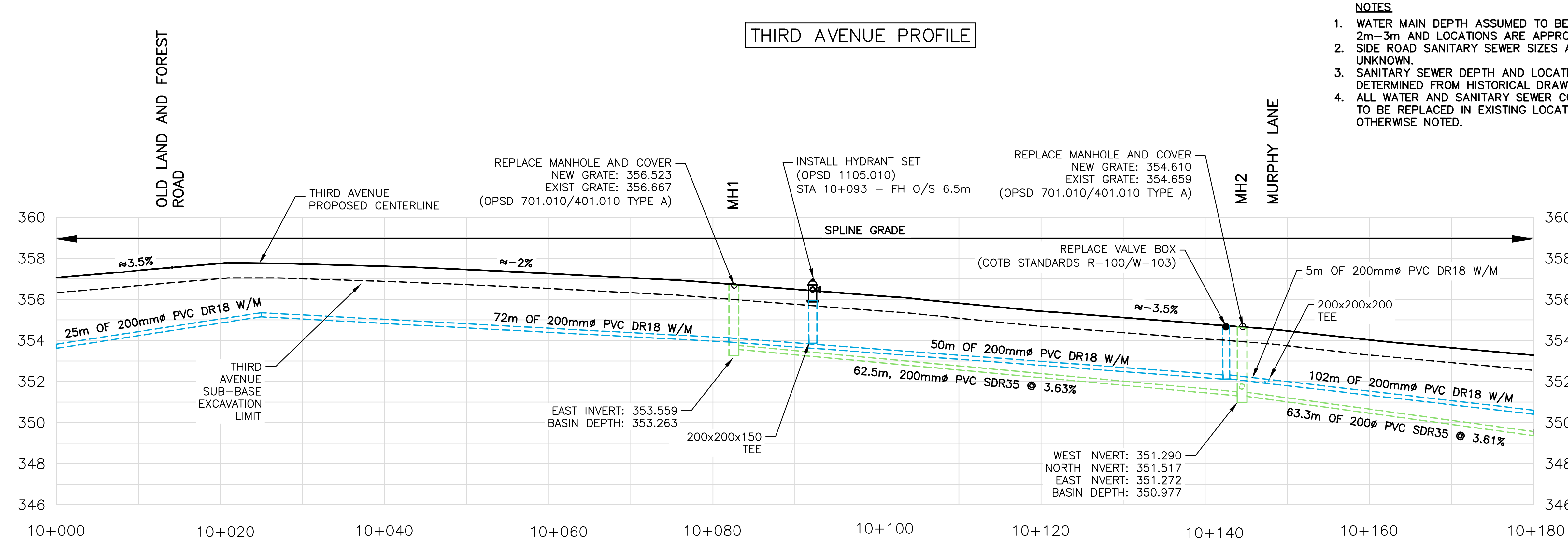
THIRD AVENUE PROFILE

NOTES

1. WATER MAIN DEPTH ASSUMED TO BE BETWEEN 2m–3m AND LOCATIONS ARE APPROXIMATE.
2. SIDE ROAD SANITARY SEWER SIZES AND TYPES UNKNOWN.
3. SANITARY SEWER DEPTH AND LOCATION DETERMINED FROM HISTORICAL DRAWINGS.
4. ALL WATER AND SANITARY SEWER COMPONENTS TO BE REPLACED IN EXISTING LOCATION UNLESS OTHERWISE NOTED.



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THIRD AVENUE RECONSTRUCTION RFP–NO.2025–04–14

TITLE
THIRD AVENUE CONSTRUCTION DRAWINGS

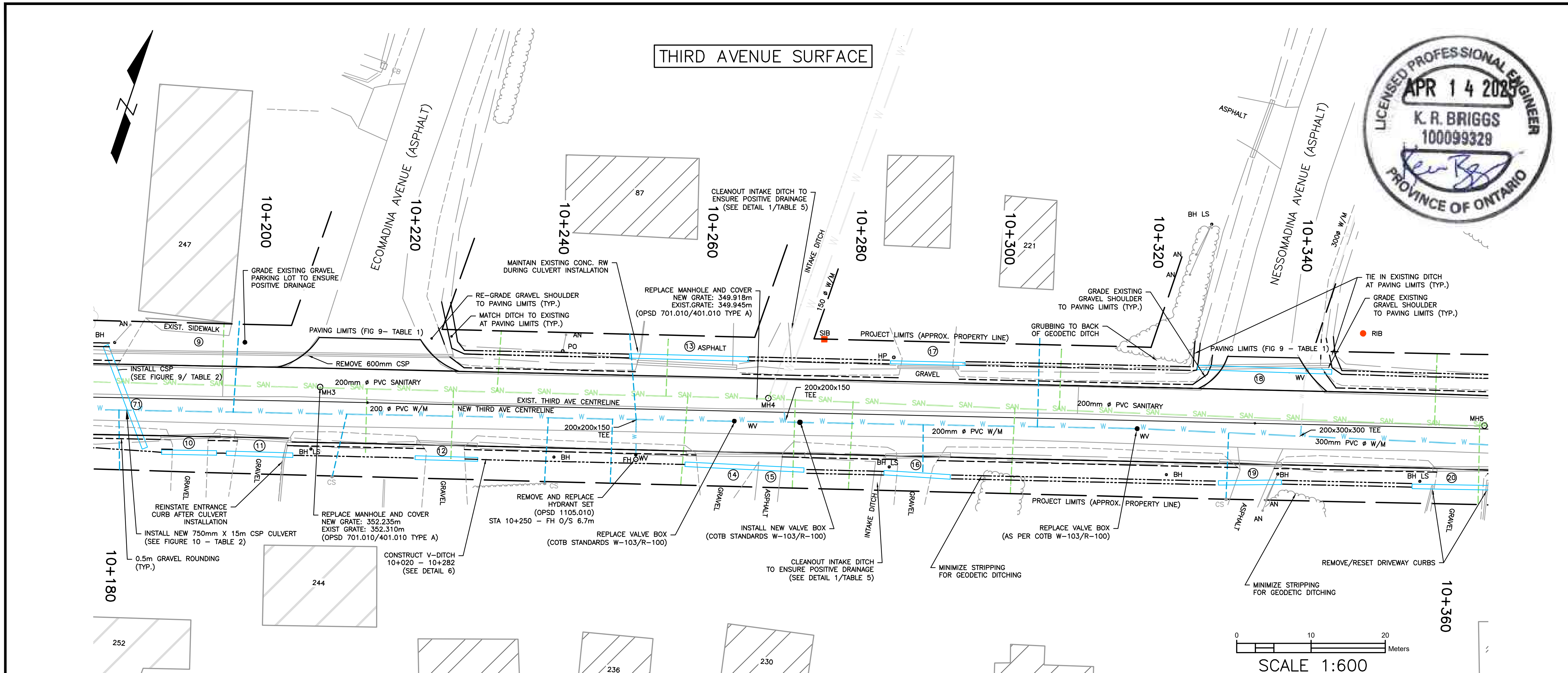
PROJECT NO.
23–089–01

DATE
14.04.2025

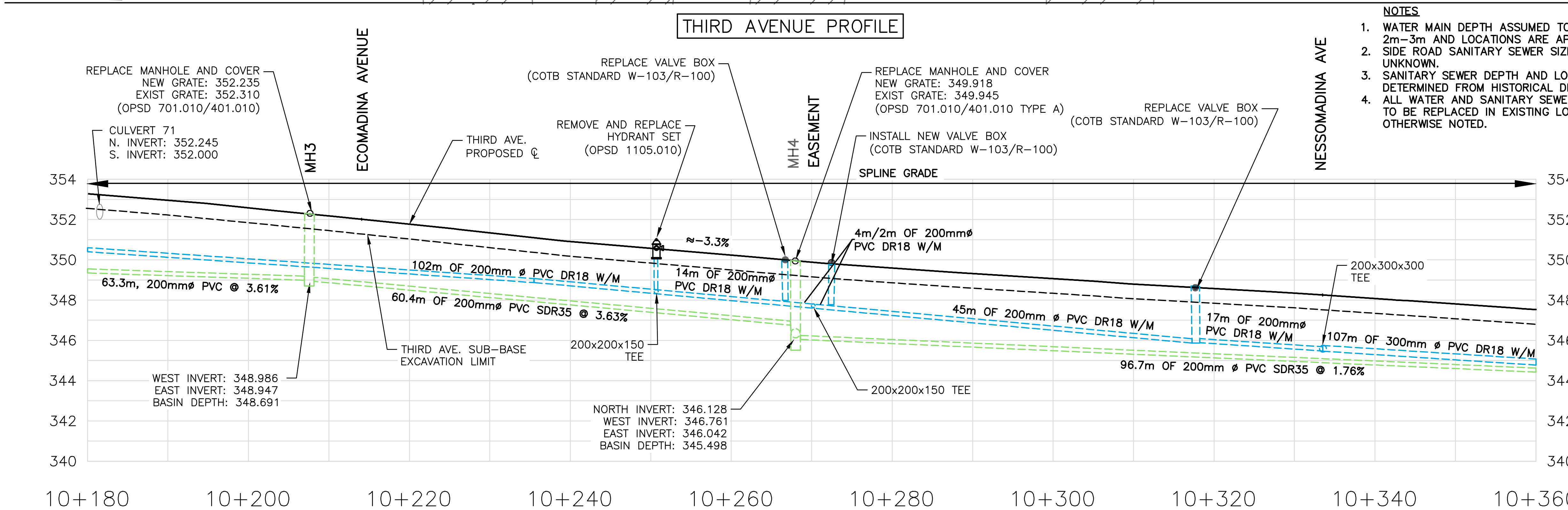
REV NO.
0

FIGURE NO.
02

THIRD AVENUE SURFACE



THIRD AVENUE PROFILE



NOTES

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LEGEND

EXISTING		NEW
	GRAVEL SHOULDER	
	VEGETATED AREA	
	ASPHALT EDGE	
AN	ANCHOR	AN
WV	WATER VALVE	WV
FH	FIRE HYDRANT	FH
MH	MAINTENANCE HOLE	MH
	FENCE LINE	
BH	BELL/HYDRO POLE	BH
	CULVERT	
	DRAINAGE DITCH	
CS	CURB STOP VALVE	
SAN	SAN MAIN LINE	SAN
	SAN PVT CONNECT.	
W	WATERMAIN	W
	WATER PVT CONNECT.	
	BENCHMARK	
	PROPERTY MONUMENT	
	EXISTING STRUCTURE	
	DRIVEWAY/CULVERT NUMBER	

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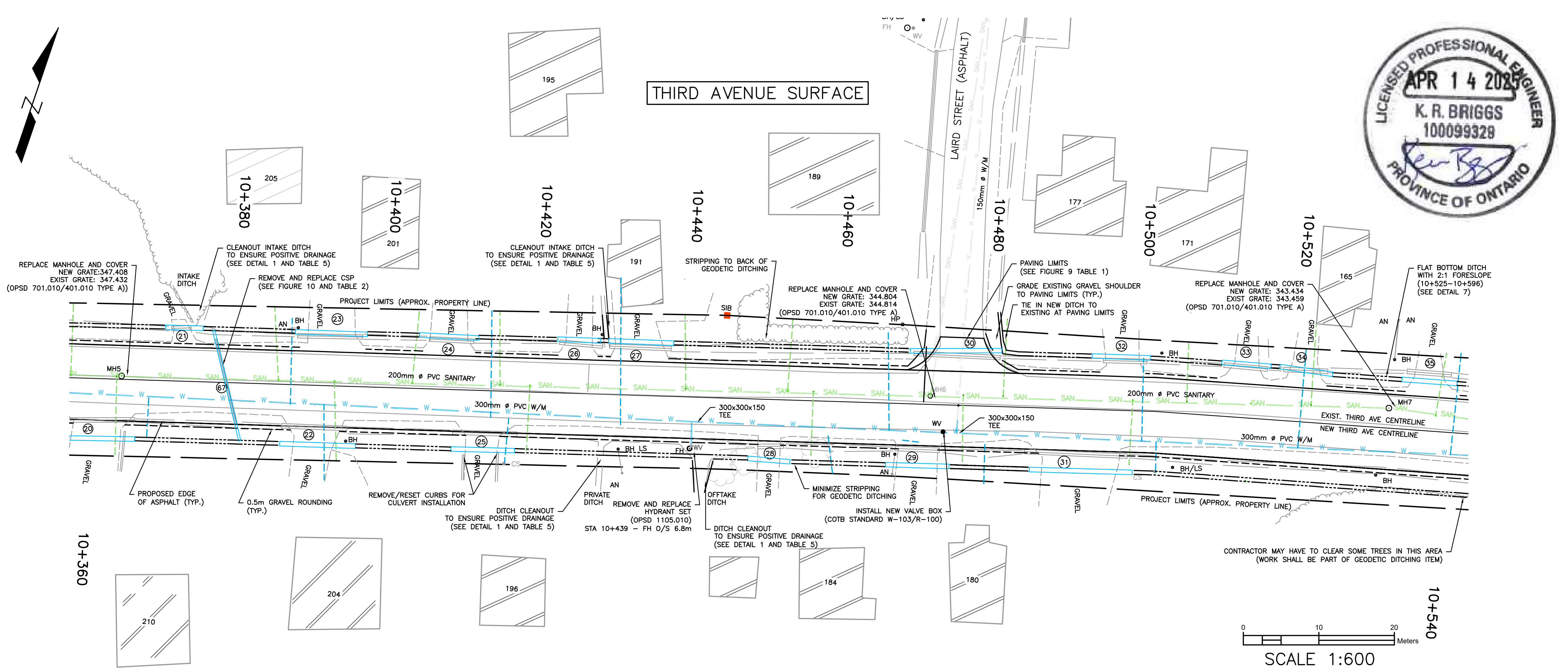
THIRD AVENUE CONSTRUCTION DRAWINGS

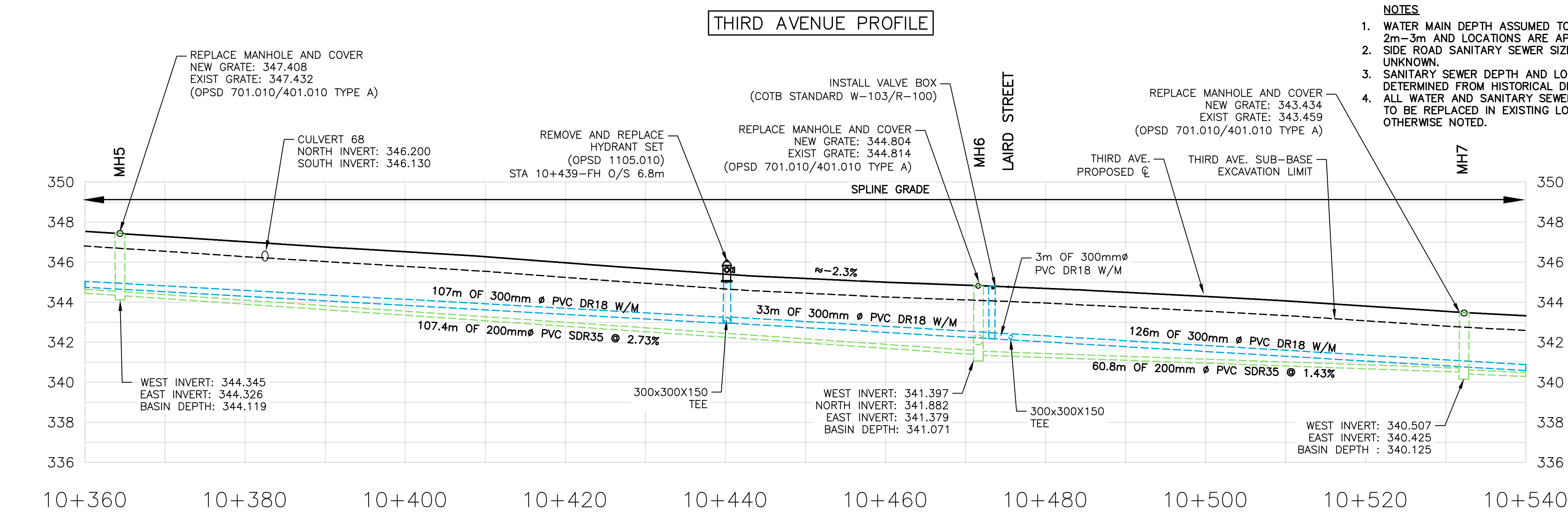
PROJECT NO.
23–089–01

DATE
14.04.2025

REV NO.
0

FIGURE NO.
03





NOTES

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LEGEND

EXISTING		NEW
	GRAVEL SHOULDER	
	VEGETATED AREA	
	ASPHALT EDGE	
AN	ANCHOR	AN
WV	WATER VALVE	WV
FH	FIRE HYDRANT	FH
MH	MAINTENANCE HOLE	MH
	FENCE LINE	
BH	BELL/HYDRO POLE	BH
	CULVERT	
	DRAINAGE DITCH	
CS	CURB STOP VALVE	
SAN	SAN MAIN LINE	SAN
	SAN PVT CONNECT.	
W	WATERMAIN	W
	WATER PVT CONNECT.	
	BENCHMARK	
	PROPERTY MONUMENT	
	EXISTING STRUCTURE	
#	DRIVEWAY/CULVERT NUMBER	

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K. R. BRIGGS
100099329
PROVINCE OF ONTARIO

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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PROJECT
THIRD AVENUE RECONSTRUCTION RFP–NO.2025–04–14

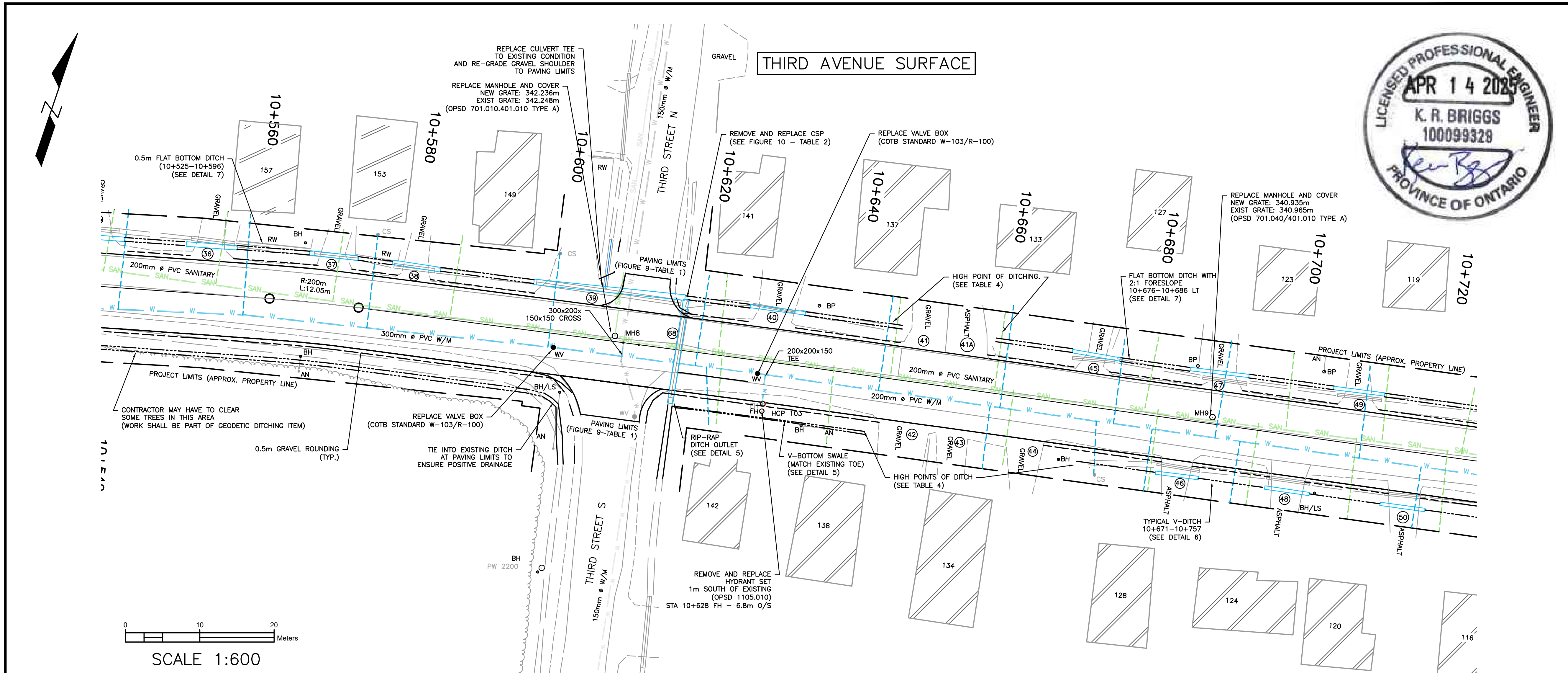
TITLE
THIRD AVE. CONSTRUCTION DRAWINGS

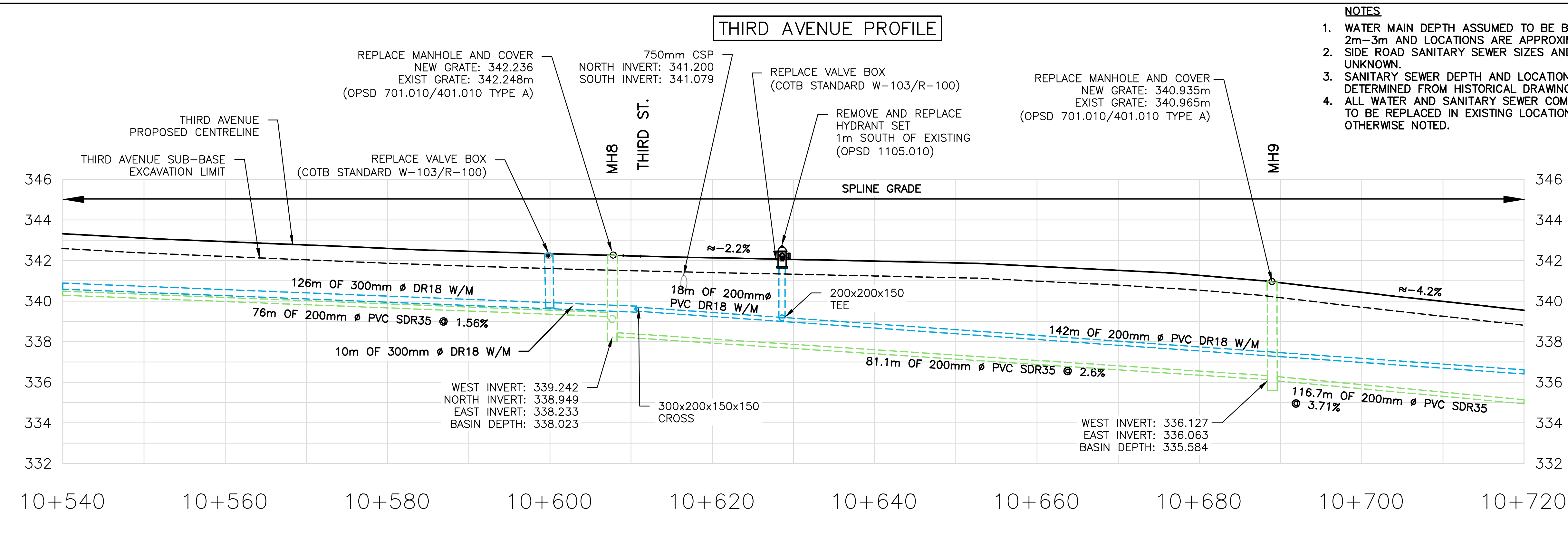
PROJECT NO.
23–089–01

DATE
14.04.2025

REV NO.
0

FIGURE NO.
04





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PROVINCE OF ONTARIO

LEGEND

EXISTING		NEW
	GRAVEL SHOULDER	
	VEGETATED AREA	
	ASPHALT EDGE	
AN	ANCHOR	AN
WV	WATER VALVE	WV
FH	FIRE HYDRANT	FH
MH	MAINTENANCE HOLE	MH
	FENCE LINE	
BH	BELL/HYDRO POLE	BH
	CULVERT	
	DRAINAGE DITCH	
CS	CURB STOP VALVE	
SAN	SAN MAIN LINE	SAN
	SAN PVT CONNECT.	
W	WATERMAIN	W
	WATER PVT CONNECT.	
	BENCHMARK	
	PROPERTY MONUMENT	
	EXISTING STRUCTURE	
	DRIVEWAY/CULVERT NUMBER	

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SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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TITLE
THIRD AVE. CONSTRUCTION DRAWINGS

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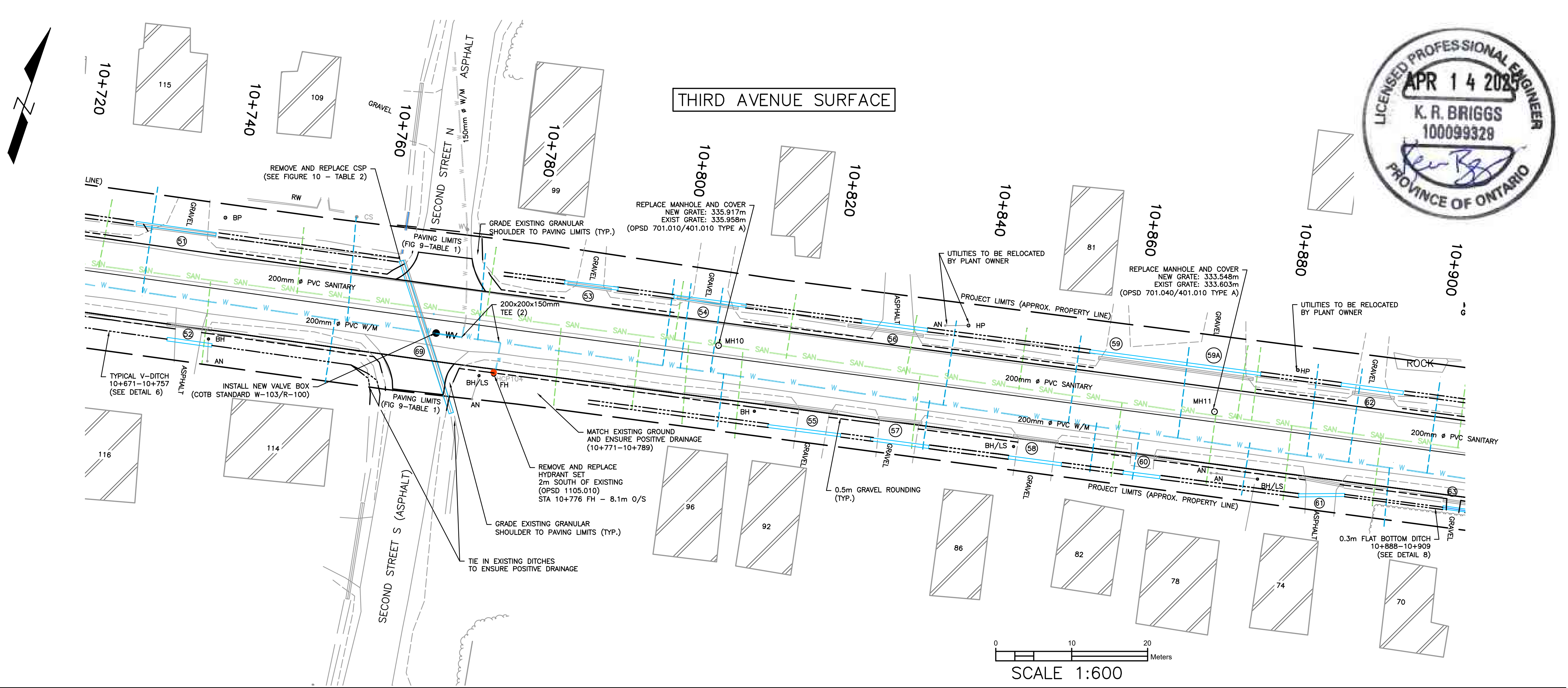
DATE 14.04.2025

REV NO. 0

FIGURE NO. 05



LEGEND

EXISTING		NEW
	GRAVEL SHOULDER	
	VEGETATED AREA	
	ASPHALT EDGE	
AN	ANCHOR	AN
WV	WATER VALVE	WV
FH	FIRE HYDRANT	FH
MH	MAINTENANCE HOLE	MH
	FENCE LINE	
BH	BELL/HYDRO POLE	BH
	CULVERT	
	DRAINAGE DITCH	
CS	CURB STOP VALVE	
SAN	SAN MAIN LINE	SAN
	SAN PVT CONNECT.	
W	WATERMAIN	W
	WATER PVT CONNECT.	
	BENCHMARK	
	PROPERTY MONUMENT	
	EXISTING STRUCTURE	
	DRIVEWAY/CULVERT NUMBER	

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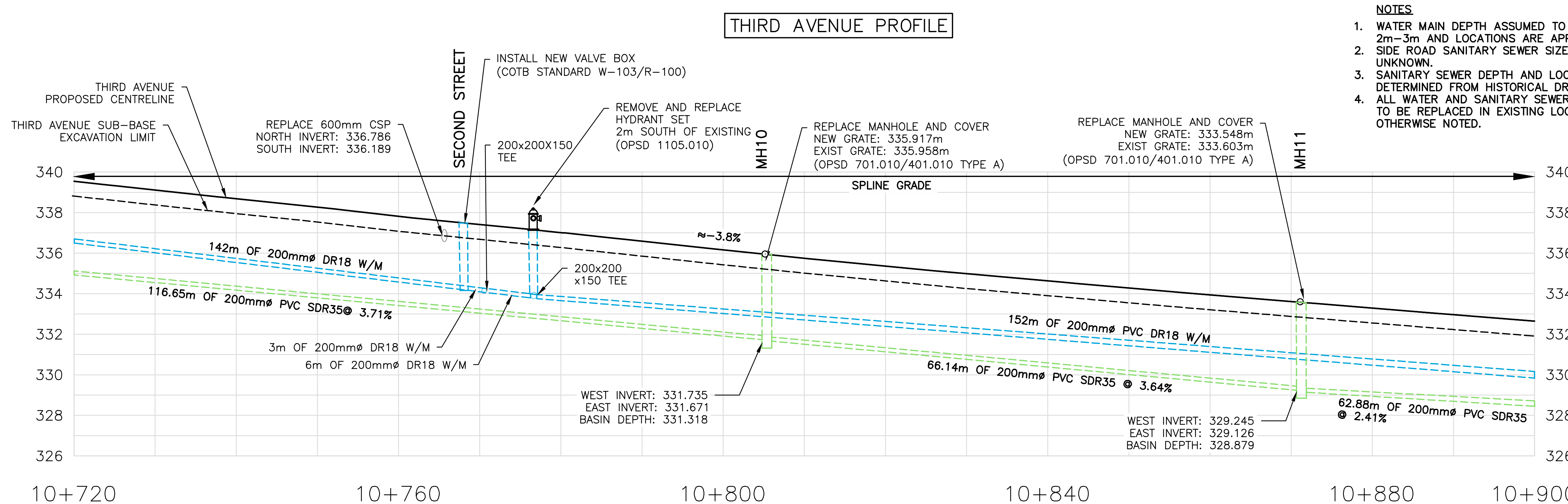
ISSUE FOR TENDER	EO	KB	KM	14.04.25



NOTES

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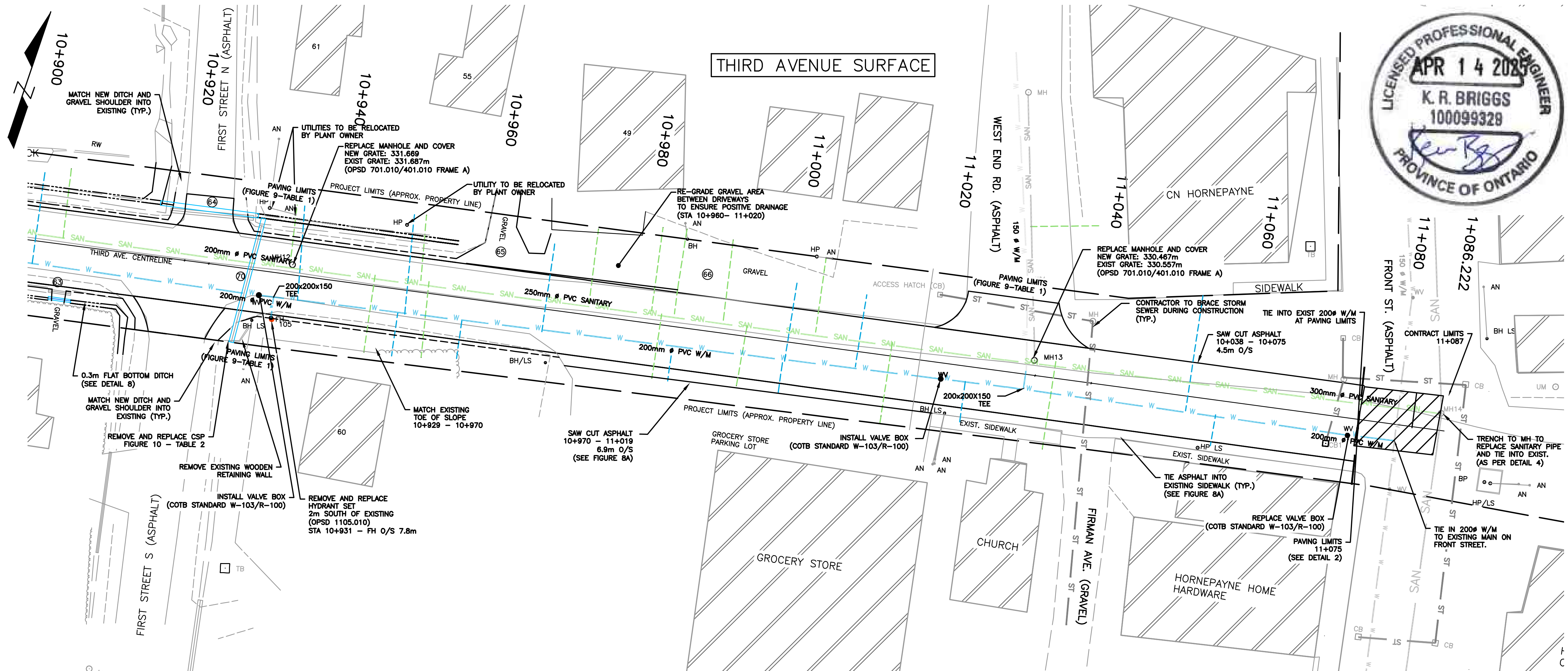
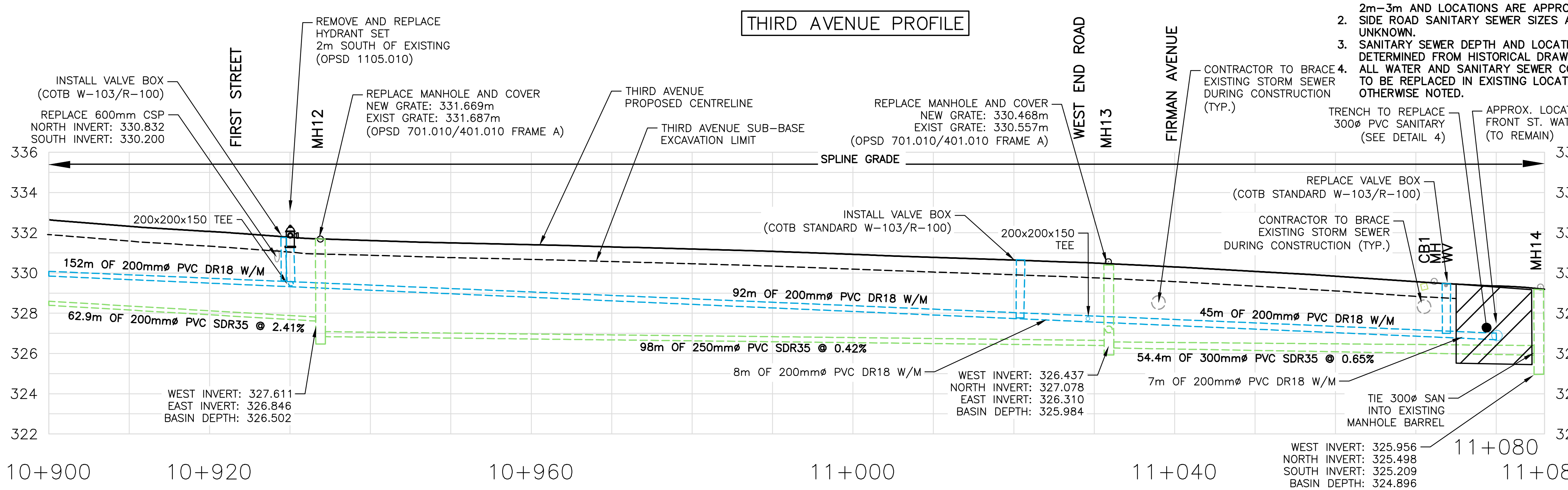
FIGURE NO. 06





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LEGEND

EXISTING		NEW
	GRAVEL SHOULDER	
	VEGETATED AREA	
	ASPHALT EDGE	
AN	ANCHOR	AN
WV	WATER VALVE	WV
FH	FIRE HYDRANT	FH
MH	MAINTENANCE HOLE	MH
	FENCE LINE	
BH	BELL/HYDRO POLE	BH
	CULVERT	
	DRAINAGE DITCH	
CS	CURB STOP VALVE	
SAN	SAN MAIN LINE	SAN
	SAN PVT CONNECT.	
W	WATERMAIN	W
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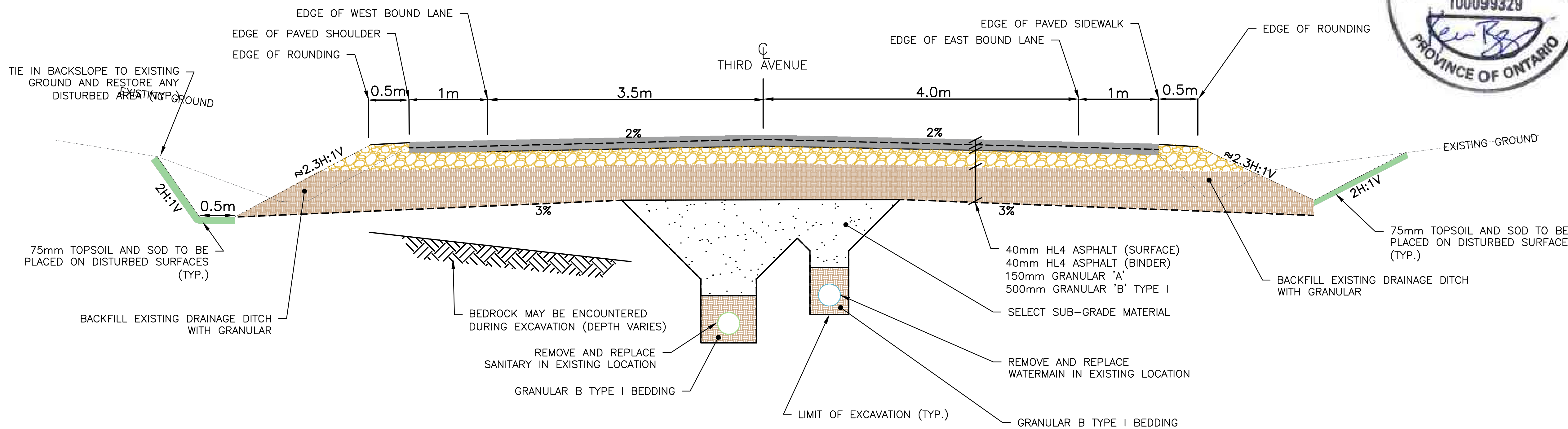
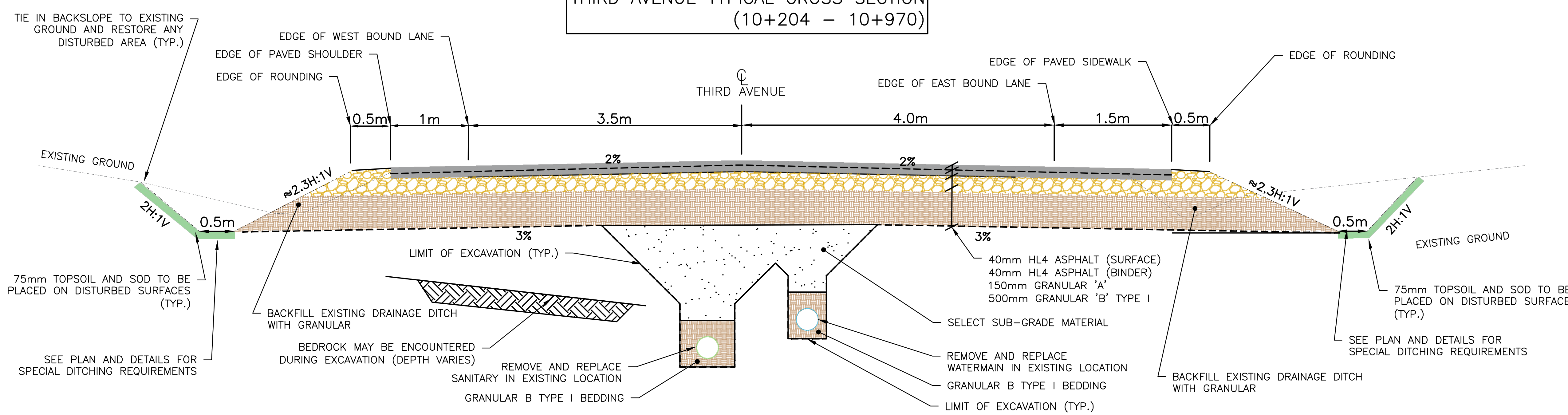
FIGURE NO. 07

THIRD AVENUE TYPICAL CROSS SECTION (10+000 – 10+204)



THIRD AVENUE TYPICAL CROSS SECTION (10+204 – 10+970)



1. DRAWING TO BE CONSTRUCTED IN CONJUNCTION WITH CITY OF THUNDER BAY STANDARDS S-100 AND W-100 CLASS "B" BEDDING.
2. REMOVE AND DISPOSE OF EXISTING ASPHALT, GRANULAR BASE AND SUB-BASE TO REQUIRED DEPTH AND REPLACE WITH REQUIRED ROAD STRUCTURE.
3. BEDDING FOR WATER MAINS AND SANITARY SEWER SHALL COMPLY WITH OPSD 802.010 OR 802.013 FOR EXCAVATIONS IN SOIL AND ROCK, RESPECTIVELY.
4. PIPE BEDDING MATERIAL SHALL BE PLACED IN MAXIMUM LIFT THICKNESS OF 200mm AND COMPACTED TO A MINIMUM OF 98% OF THE MATERIALS SPMDD.
5. SUB-GRADE MATERIAL SHALL BE PLACED IN A MAXIMUM 300mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE MATERIALS SPMDD.
6. THE SUB-GRADE MUST NOT BE ALLOWED TO FREEZE DURING CONSTRUCTION AND THERE SHOULD BE NO FROST PRESENT IN THE SUBGRADE SOILS PRIOR TO THE PLACEMENT OF PAVEMENT AND BACKFILL MATERIALS

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LEGEND

ASPHALT
GRANULAR A
GRANULAR B TYPE I
SELECT SUBGRADE
TOPSOIL/SOD
SANITARY SEWER
WATER MAIN

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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TITLE
THIRD AVENUE TYPICAL CROSS-SECTION

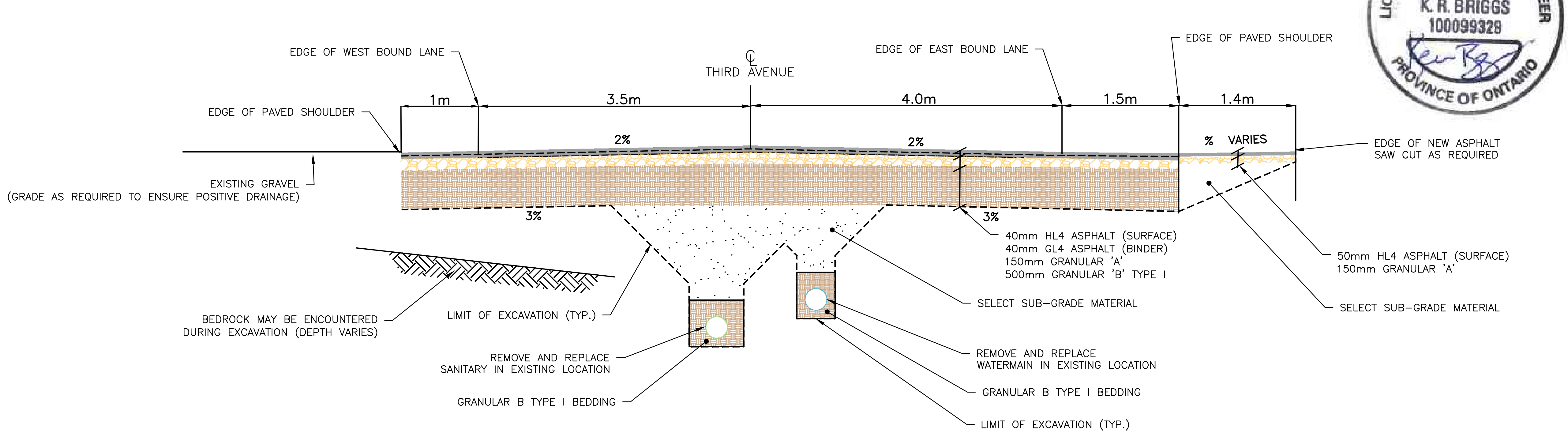
PROJECT NO.
23-089-01

DATE
14.04.2025

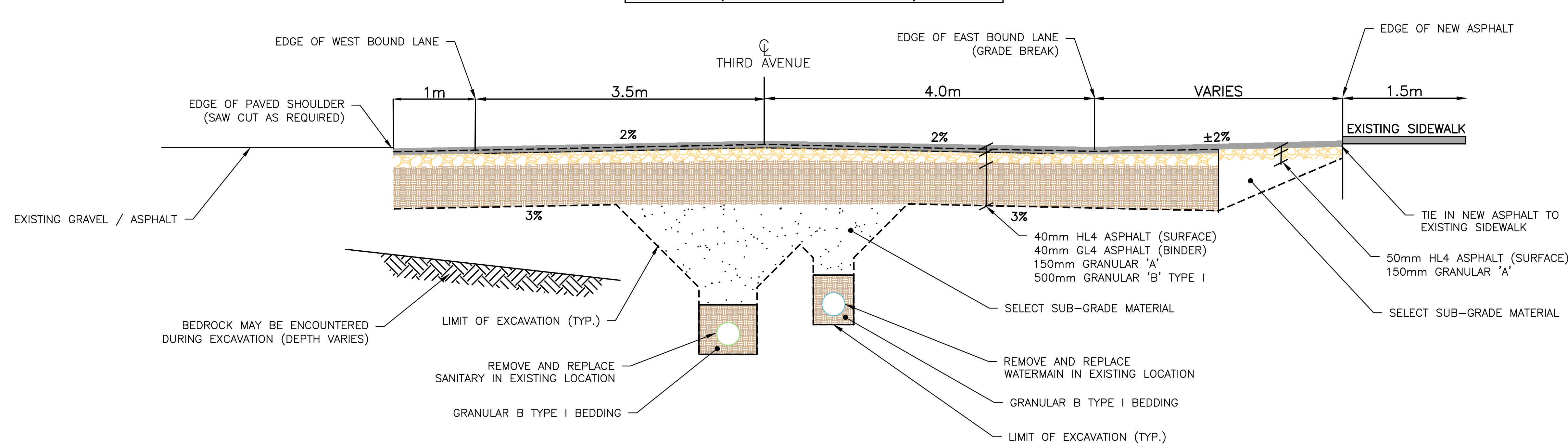
REV NO.
0

FIGURE NO.
08

THIRD AVENUE TYPICAL CROSS SECTION (10+970 – 11+018)



THIRD AVENUE TYPICAL CROSS SECTION (11+018 – 11+075)



NOTES:

1. DRAWING TO BE CONSTRUCTED IN CONJUNCTION WITH CITY OF THUNDER BAY STANDARDS S-100 AND W-100 CLASS "B" BEDDING
2. REMOVE AND DISPOSE OF EXISTING ASPHALT, GRANULAR BADE AND SUB-BASE TO REQUIRED DEPTH AND REPLACE WITH REQUIRED ROAD STRUCTURE.
3. BEDDING FOR WATER MAINS AND SANITARY SEWER SHALL COMPLY WITH OPSD 802.010 OR 802.013 FOR EXCAVATIONS IN SOILS AND ROCK, RESPECTIVELY.
4. PIPE BEDDING MATERIAL SHALL BE PLACED IN MAXIMUM LIFT THICKNESS OF 200mm AND COMPACTED TO A MINIMUM OF 98% OF THE MATERIALS SPMDD.
5. SUB-GRADE MATERIAL SHALL BE PLACED IN A MAXIMUM 300mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE MATERIALS SPMDD.
6. THE SUB-GRADE MUST NOT BE ALLOWED TO FREEZE DURING CONSTRUCTION AND THERE SHOULD BE NO FROST PRESENT IN THE SUBGRADE SOILS PRIOR TO THE PLACEMENT OF PAVEMENT AND BACKFILL MATERIALS

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LEGEND

	ASPHALT
	GRANULAR A
	GRANULAR B TYPE I
	SELECT SUBGRADE
	SANITARY SEWER
	WATER MAIN

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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CLIENT
TOWNSHIP OF HORNEPAYNE

PROJECT
THIRD AVENUE RECONSTRUCTION RFP-NO.2025-04-14

TITLE
THIRD AVENUE TYPICAL CROSS-SECTION

PROJECT NO. 23-089-01

DATE 14.04.2025

REV NO. 0

FIGURE NO. 08A

PLAN VIEW

N.T.S

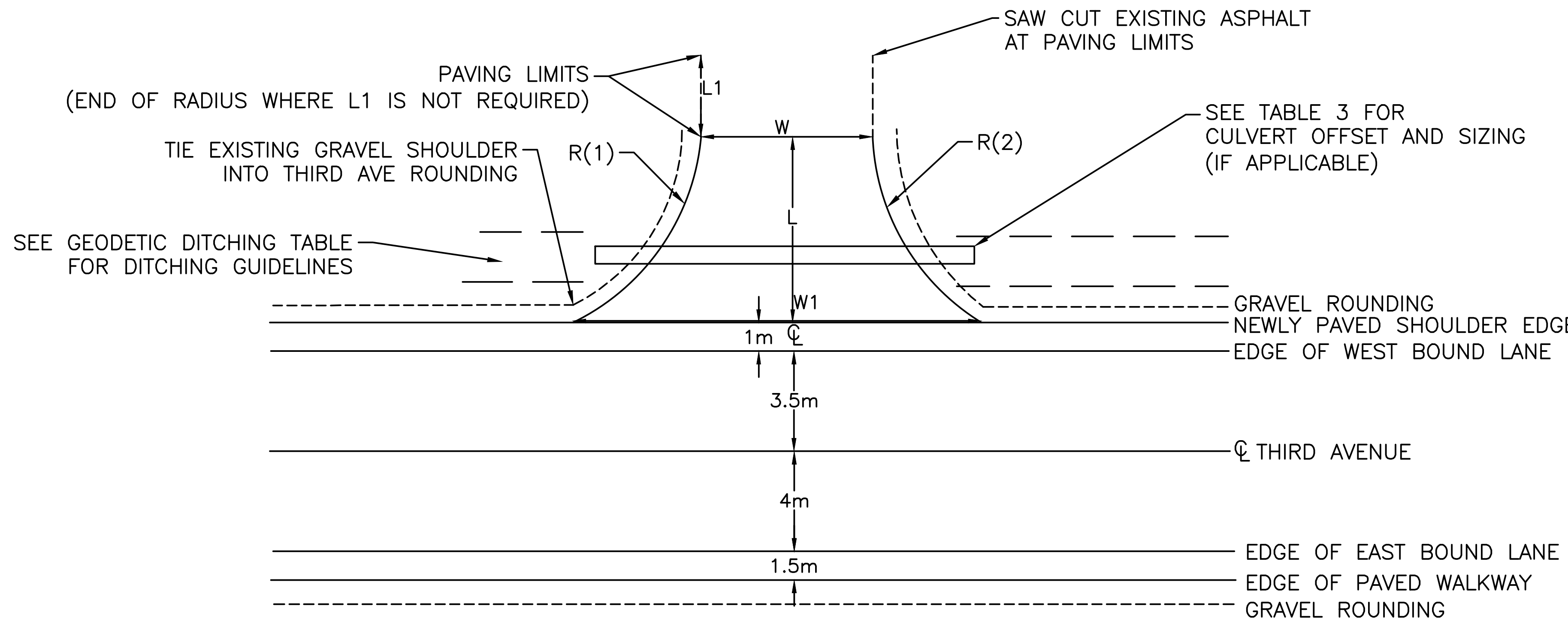

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TABLE 1 – PAVED SIDEROADS (50mm HL4 ASPHALT)

STATION(℄)	ROAD	LENGTH (L)	LENGTH (L1)	WIDTH (W)	WIDTH (W1)	RADIUS (R1)	RADIUS (R2)	AREA (m^2)
10+148.769 LT	MUPRHY LANE (PAVED APRON)	4.1m	–	5.7m	12.8m	6.6m	10.2m	36
10+214 LT	ECOMADINA AVE	4.1m	–	13.6m	24.3m	9m	9.5m	73
10+334.3 LT	NESSOMADINA AVE	4.3m	–	9.6m	17.2m	7m	15m	56
10+475 LT	LAIRD ST.	4.5m	–	5.8m	14.5m	6.5m	6.3m	39
10+611 LT	THIRD ST. NORTH	3.6m	1.2m	6.1	12.6m	3.5m	4.2m	36
10+608 RT	THIRD ST. SOUTH	4.8m	-	8m	13.8m	4.5m	9.5m	48
10+767 LT	SECOND ST. NORTH	4m	–	7.1m	12m	5.2m	9m	36
10+767 RT	SECOND ST. SOUTH	4.3m	1m	6.8m	9.7m	4.3m	7.6m	33
10+922 RT	FIRST ST SOUTH	4.3m	-	7.5m	12.2m	13.5m	10m	41
10+922 LT	FIRST ST NORTH	4.2m	2m	6.2m	8.2m	2.8m	4.4m	29
11+030 LT	WEST END RD.	5.3m	–	12m	20m	5.5m	8m	77

NOTE:
1. LENGTH (L) IS MEASURED FROM EDGE OF ASPHALT (PAVED SHOULDER LT/PAVED WALKWAY RT).
2. WIDTH (W) IS MEASURED BETWEEN ASPHALT EDGES AT THE END OF RADIUS.
3. WIDTH (W1) IS THE TOTAL WIDTH OF ENTRANCE AT THE EDGE OF PAVED SHOULDER
4. GRANULAR SHOULDERS TO BE GRADED AND MATCHED INTO EXISTING AT PAVING LIMITS.
5. SAW CUT IS TO BE MADE AT THE DISTANCE OF (L) OR (L1), IF APPLICABLE.

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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PROJECT
THIRD AVENUE RECONSTRUCTION RFP–NO.2025–04–14

TITLE
ASPHALT SIDE ROAD CONSTRUCTION DETAILS

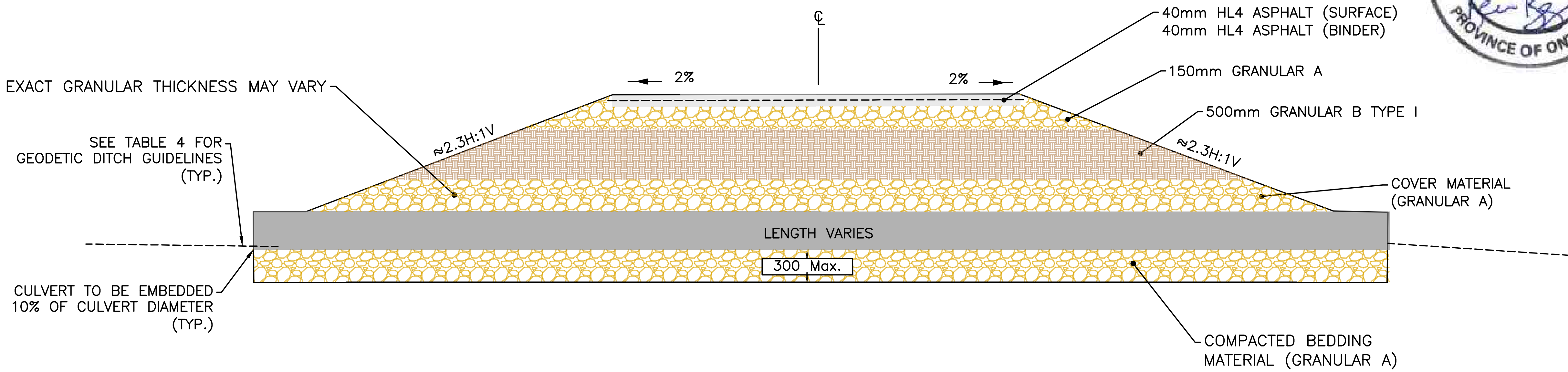
PROJECT NO.
23–089–01

DATE
14.04.2025

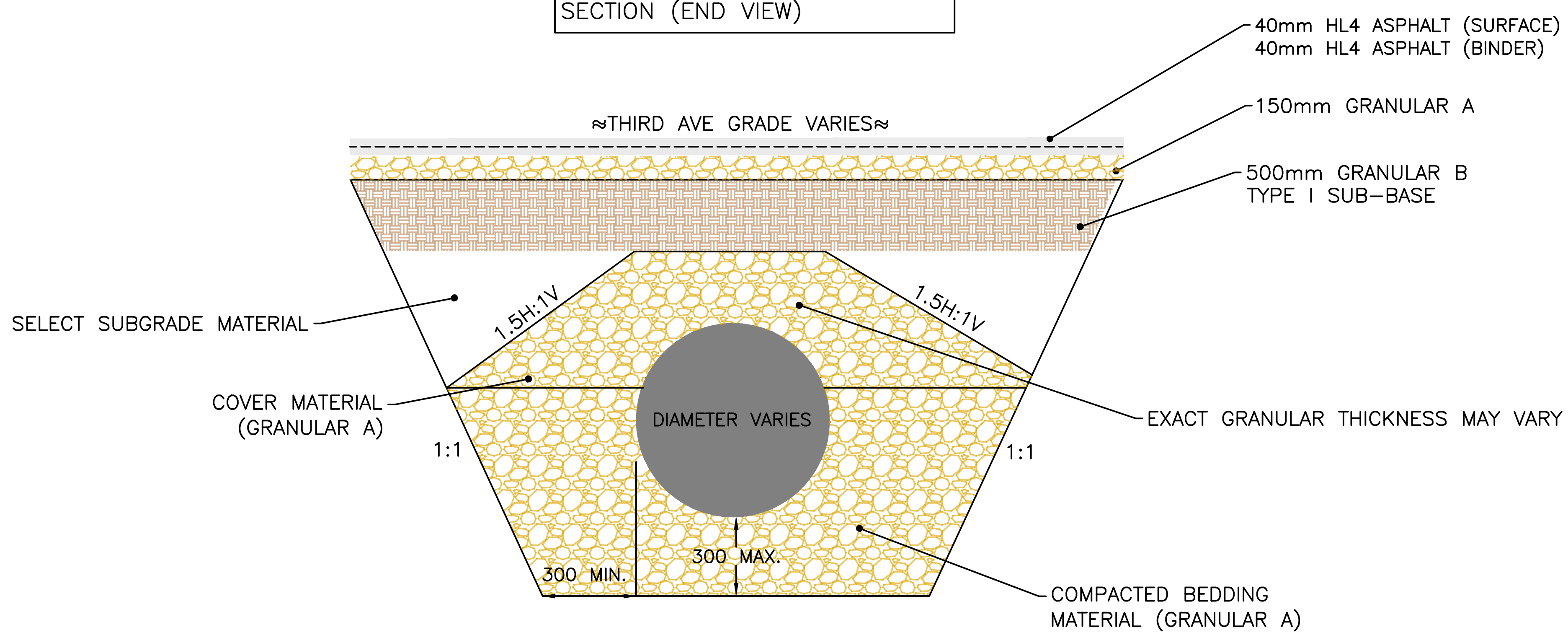
REV NO.
0

FIGURE NO.
09

CENTERLINE
CULVERT CROSS SECTION



CENTRELINE CULVERT CROSS SECTION (END VIEW)



NOTE:
1. SEE TABLE 2 FOR APPLICABLE CENTRELINE CULVERT DETAILS
2. DETAILS TO BE READ IN CONJUNCTION WITH OPSD 802.010.

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LEGEND

ASPHALT
GRANULAR A
GRANULAR B TYPE I

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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PROJECT
THIRD AVENUE RECONSTRUCTION RFP-NO.2025-04-14

TITLE
TYPICAL CENTRELINE CULVERT CONSTRUCTION

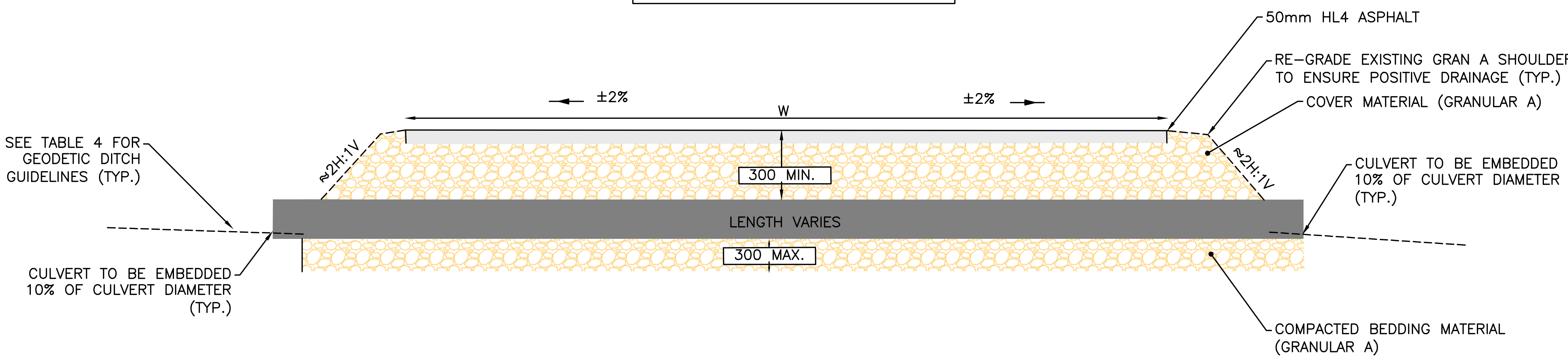
PROJECT NO.
23-089-01

DATE
14.04.2025

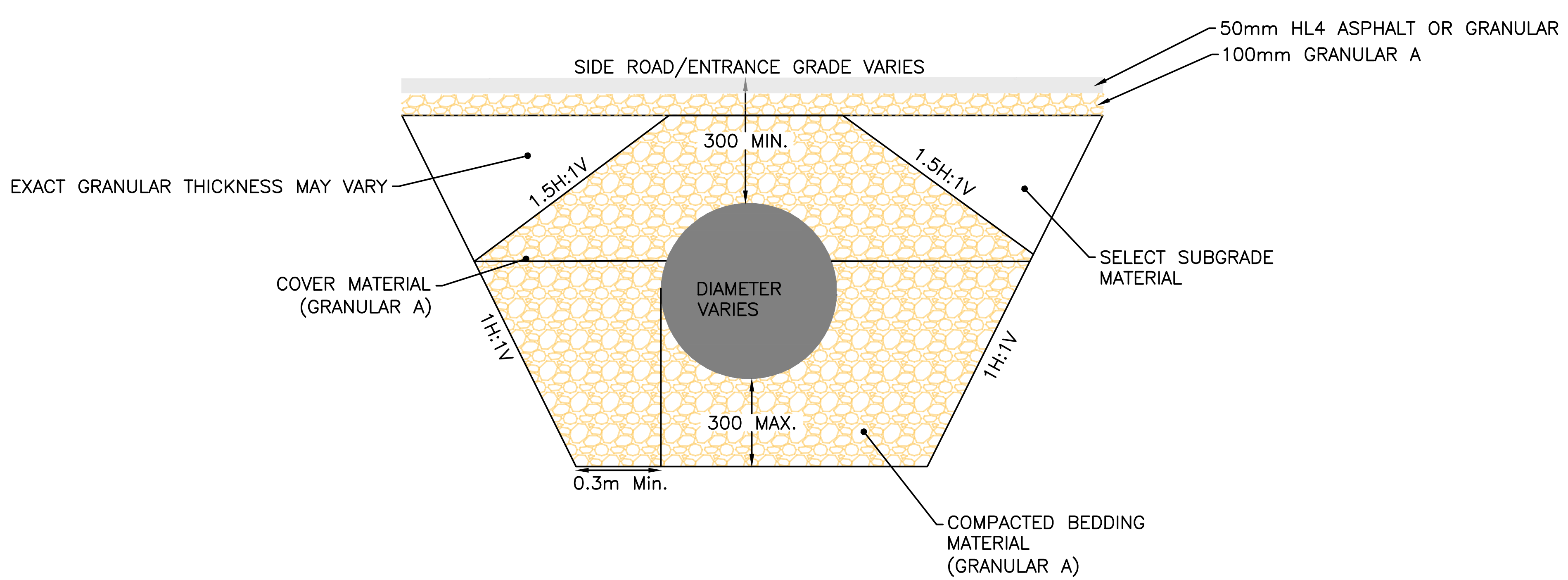
REV NO.
0

FIGURE NO.
10

SIDEROAD / ENTRANCE CULVERT CROSS SECTION



SIDEROAD / ENTRANCE CULVERT CROSS SECTION (END VIEW)



NOTE:
1. SEE TABLE 3 FOR APPLICABLE ENTRANCE CULVERT DETAILS.
2. DETAILS TO BE READ IN CONJUNCTION WITH OPSD 802.010.
3. FOR EXISTING GRANULAR SIDEROADS AND ENTRANCES, OMIT 50mm ASPHALT AND RE–GRADE WITH GRANULAR A

LEGEND

ASPHALT
GRANULAR A
GRANULAR B TYPE I

NOTE:

SEE TABLE 3 FOR APPLICABLE SIDE ROAD AND ENTRANCE CULVERT DETAILS

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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PROJECT
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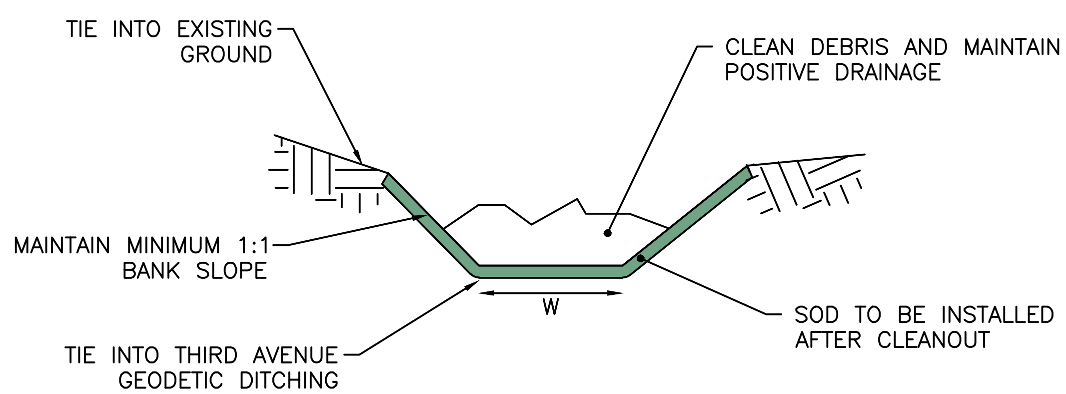
TITLE
TYPICAL PRIVATE ENTRANCE CULVERT CONSTRUCTION

PROJECT NO. 23–089–01
DATE 14.04.2025
REV NO. 0
FIGURE NO. 10A

DETAIL 1

INTAKE/OFFTAKE DITCH CLEANOUT
N.T.S

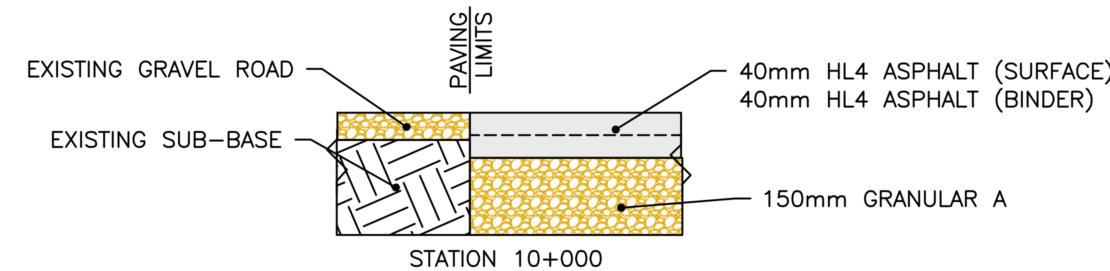


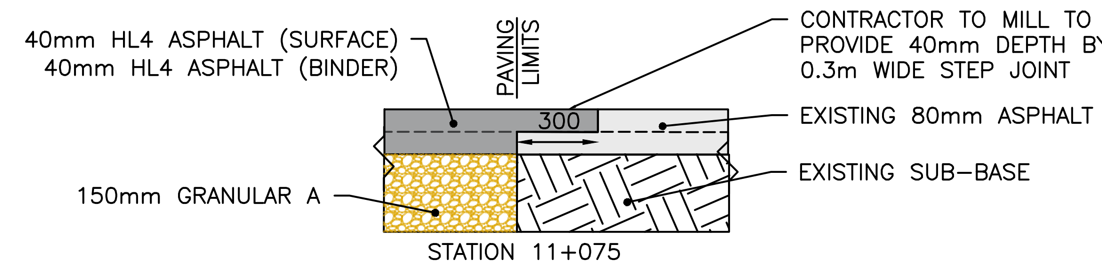
NOTES:

1. ALL DITCHING REQUIRES POSITIVE DRAINAGE AND TO RE REINSTATED TO EQUAL OR BETTER CONDITION THAN PRE CONSTRUCTION.
2. REFER TO TABLE 3/4 FOR GEODETIC DITCHING ELEVATIONS AT INTAKE/OFFTAKE DITCH.
3. REFER TO TABLE 5 FOR CLEAN OUT DISTANCES.

DETAIL 2

THIRD AVENUE TIE IN DETAILS
N.T.S



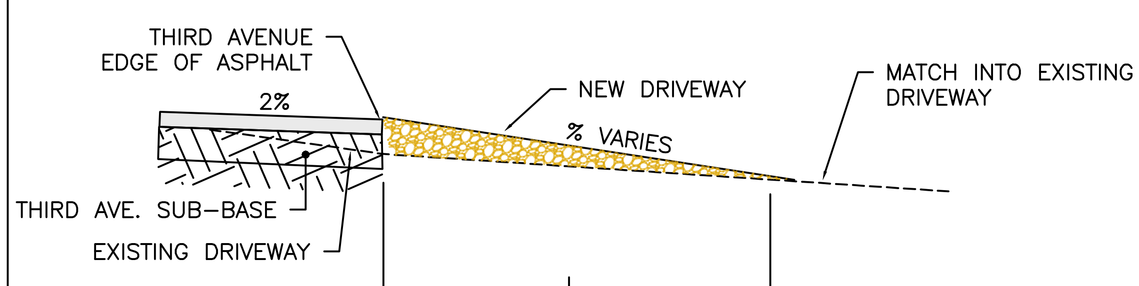


NOTES:

1. STEP JOINT IS NOT REQUIRED FOR PAVED SIDE ROADS AND ENTRANCES, SAW CUT AND BUTT JOINT NEW ASPHALT TO EXISTING AT PAVING LIMITS.

DETAIL 3

GRANULAR ENTRANCES
N.T.S

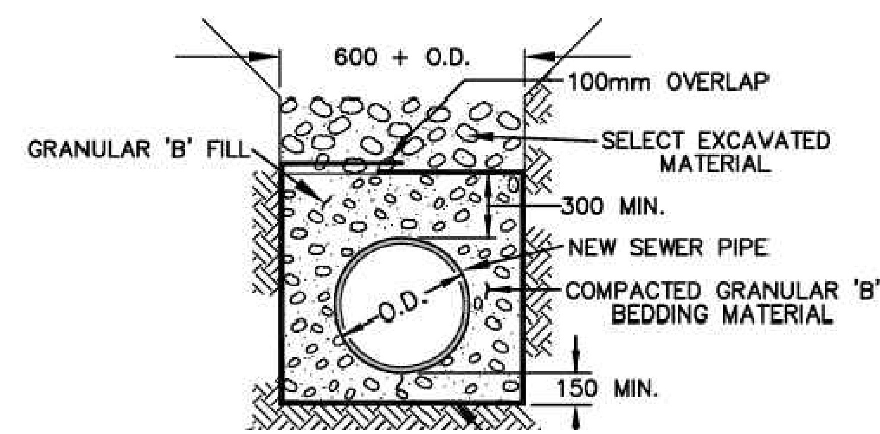


NOTES:

1. SEE TABLE 6 FOR SPECIFIC ENTRANCES THAT REQUIRE ADDITIONAL GRANULAR TO MINIMIZE GRADE CHANGE.
2. L = DISTANCE OF GRADING FROM EDGE OF THIRD AVENUE NEW ASPHALT EDGE.
3. 50mm ASPHALT REQUIRED FOR EXISTING ASPHALT DRIVEWAYS (TABLE 6A)

DETAIL 4

TRENCHING DETAILS (STA 10+075 – 10+086)
N.T.S



NOTES:

1. REPLACE EXISTING 300ø SANITARY SEWER LINE IN EXISTING LOCATION AND TIE INTO EXISTING MH14 BARREL.
2. SEE FIGURE 7 PLAN AND PROFILE FOR LOCATION AND ELEVATION DETAILS.
3. FRONT STREET WATER MAIN TO BE BRACED DURING TRENCHING OPERATIONS.
4. REFER TO FIGURE 8 – TYPICAL PAVING STRUCTURE FOR PAVEMENT AND SUB–BASE STRUCTURE.
5. REFER TO DETAIL 2 FOR STEP JOINT ASPHALT TIE IN.

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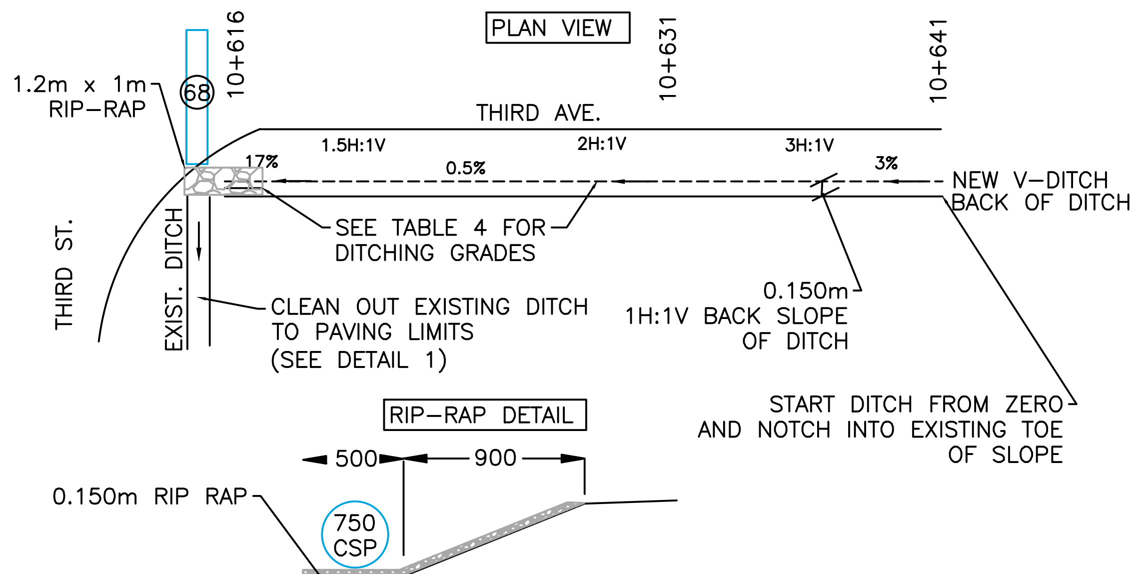
PROJECT
THIRD AVENUE RECONSTRUCTION RFP–NO.2025–04–14

TITLE
CONSTRUCTION DETAILS

PROJECT NO. 23–089–01
DATE 14.04.2025
REV NO. 0
FIGURE NO. 11

DETAIL 5

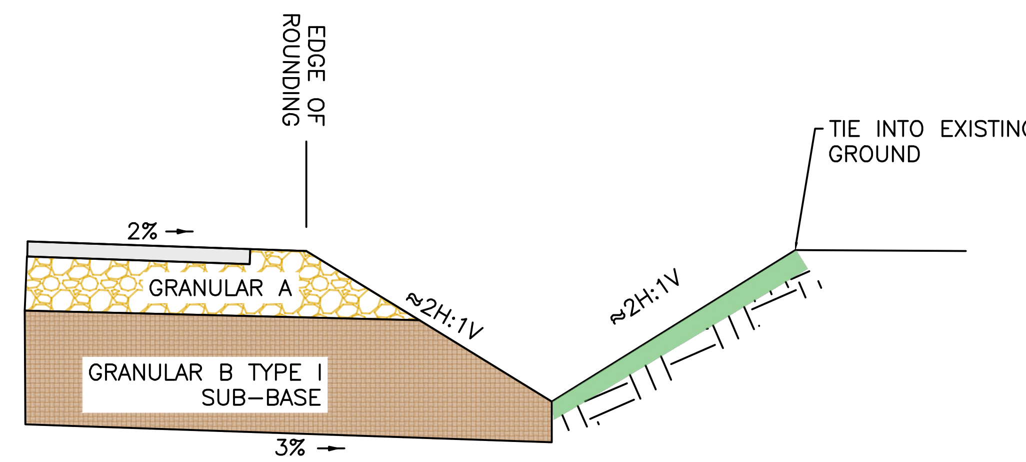
RIP-RAP OUTLET AND DITCHING (10+615-10+641 RT)
N.T.S



NOTES:
1. V-DITCH TO BE CONSTRUCTED TO ENSURE POSITIVE DRAINAGE TO RIP-RAP OUTLET.
2. BACK SLOPE TO BE CONSTRUCTED TO INTERCEPT WATER FROM OVERFLOWING ONTO PRIVATE PROPERTY.
3. SOD TO BE PLACED ON DISTURBED AREAS.

DETAIL 6

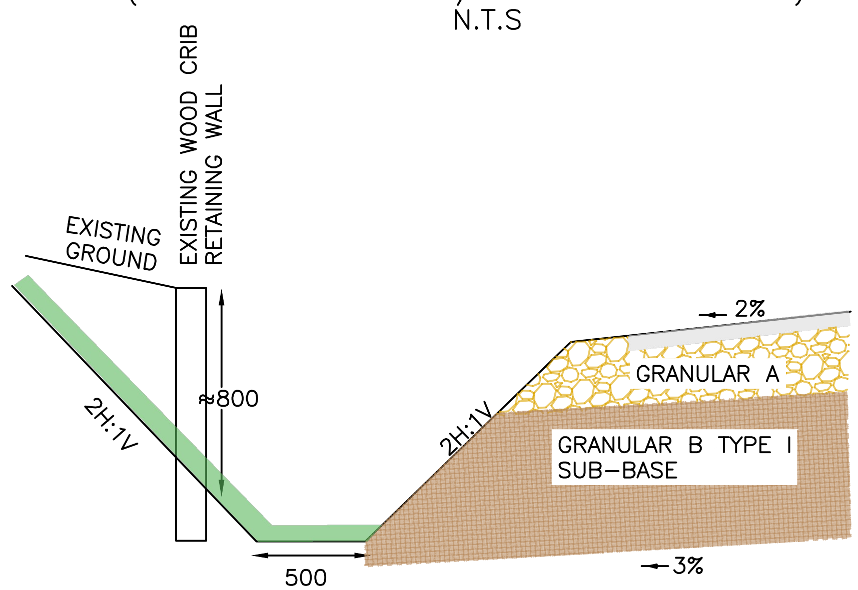
TYPICAL V-DITCH
(10+000-10+256 RT/10+671-10+757 RT)
N.T.S



NOTES:
1. SEE TABLE 4 - RT DITCHING FOR DITCHING GRADES.
2. SEE FIGURE 7 FOR PAVING AND SUB-BASE STRUCTURE.
3. 75mm TOPSOIL AND SOD TO BE LAID ON DISTURBED AREAS.

DETAIL 7

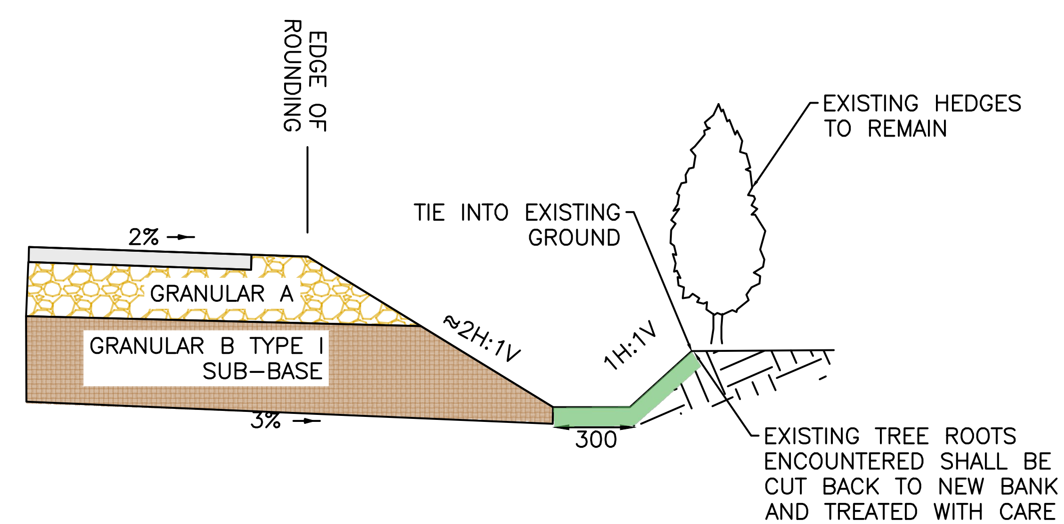
FLAT BOTTOM DITCH WITH 2:1 FORESLOPE
(10+525-10+596 LT / 10+676-10+686 LT)
N.T.S



NOTES:
1. SEE TABLE 4 - LT DITCHING FOR DITCHING GRADES.
2. SEE FIGURE 8 FOR PAVING AND SUB-BASE STRUCTURE.
3. REMOVE EXISTING RETAINING WALL.
4. 75mm TOPSOIL AND SOD TO BE LAID ON DISTURBED AREAS.

DETAIL 8

0.3m FLAT BOTTOM DITCH (10+888-10+909 RT)
N.T.S



NOTES:
1. SEE TABLE 4 - RT DITCHING FOR DITCHING GRADES
2. SEE FIGURE 8 FOR PAVING AND SUB-BASE STRUCTURE
3. 75mm TOPSOIL AND SOD TO BE LAID ON DISTURBED AREAS.

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PROJECT
THIRD AVENUE RECONSTRUCTION RFP-NO.2025-04-14

TITLE
CONSTRUCTION DETAILS

PROJECT NO. 23-089-01
DATE 14.04.2025
REV NO. 0
FIGURE NO. 11A

TABLE 2 – THIRD AVENUE CENTRELINE CULVERTS						
EXISTING CENTRELINE CULVERT				NEW REPLACEMENT		
NUMBER	STATION	TYPE	LENGTH	STATION	TYPE	LENGTH
71	-	-	–	10+181	750mm CSP	15m
67	10+378	300mm CSP	11.55m	10+378	450mm CSP	15m
68	10+616	750mm CSP	12.06m	10+616	750mm CSP	14m
69	10+765	600mm CSP	21.07m	10+765	600mm CSP	21.5m
70	10+928	600mm CSP	15.77m	10+928	600mm CSP	17m

TABLE 3 – PRIVATE ENTRANCE CULVERTS						
EXISTING ENTRANCE CULVERT				NEW REPLACEMENT		
NUMBER	STATION	TYPE	LENGTH	STATION/OFFSET	TYPE	LENGTH
1	10+010 RT	N/A		N/A	N/A	N/A
2	10+041 RT 5.6m O/S	150mm CSP	7.89m	10+041 RT 6.8m O/S	300mm CSP	8m
3	10+074 RT 5.2m O/S	400mm CSP	6.55m	10+074 RT 6.8m O/S	400mm CSP	7m
4	10+079 LT 6.5m O/S	300mm CSP	5.88m	10+079 LT 7.1m O/S	300mm CSP	6m
5	10+100 RT 5.4m O/S	450mm CSP	9.7m	10+100 RT 6.8m O/S	450mm CSP	9.5m
6	10+117 LT 6.7m O/S	300mm CSP	7.78m	10+117 LT 8m O/S	300mm CSP	8m
7	10+143 RT 5m O/S	300mm CSP	7.47m	10+143 RT 6.8m O/S	300mm CSP	9.5m
8	10+160 LT 6.3m O/S	500mm CSP	21.14m	10+160 LT 7.1m O/S	500mm CSP	21.5m
9	10+195 LT 6.2m O/S	450mm CSP	45.95m	REMOVE	REMOVE	REMOVE
10	10+190 RT 5.1m O/S	600mm CSP	8m	10+190 RT 7.1m O/S	600mm CSP	8m
11	10+198 RT 5m O/S	600mm CSP	7.62m	10+198 RT 7.1m O/S	600mm CSP	9m
12	10+224 RT 5.2m O/S	500mm HDPE	8.15m	10+224 RT 7.2m O/S	500mm CSP	8.5m
13	10+255 LT 6m O/S	600mm CSP	13.39m	10+255 LT 7.1m O/S	600mm CSP	16m
14/15	10+262 RT 5.8m O/S	600mm CSP	16m	10+262 RT 7.4m O/S	600mm CSP	16m
16	10+288 RT 5.3m O/S	600mm CSP	8.75m	10+288 RT 7.7m O/S	600mm CSP	8.5m
17	10+288 LT 6.4m O/S	400mm CSP	8.24m	10+288 LT 7.1m O/S	400mm CSP	10m
18	10+334 LT 7.5m O/S	600mm CSP	17.74m	10+334 LT 7.5m O/S	600mm CSP	18m
19	10+334 RT 5.3m O/S	600mm CSP	8.35m	10+334 RT 7.9m O/S	600mm CSP	8.5m
20	10+361 RT 5.3m O/S	600mm CSP	8.70m	10+361 RT 7.8m O/S	600mm CSP	11.5m
21	10+372 LT 7m O/S	600mm CSP	2.55m	10+372 LT 7m O/S	600mm CSP	5m
22	10+390 RT 5.4m O/S	600mm CSP	8.65m	10+372 LT 7.8m O/S	600mm CSP	10m
23	10+391 LT 6.5m O/S	600mm CSP	8.66m	10+391 LT 7.2m O/S	600mm CSP	9.5m
24	10+407 LT 6.5m O/S	600mm CSP	5.92m	10+407 LT 7.1m O/S	600mm CSP	8m
25	10+412 RT 5.5m O/S	600mm CSP	8.59m	10+412 RT 7.8m O/S	600mm CSP	8.5m
26	10+425 LT 6.5m O/S	600mm CSP	5.73m	10+425 LT 7.1m O/S	600mm CSP	5.5m
27	10+431 LT 6.3m O/S	600mm CSP	8.14m	10+431 LT 7m O/S	600mm CSP	8.5m
28	10+450 RT 6.1m O/S	600mm CSP	3.43m	10+450 RT 7.9m O/S	600mm CSP	5.5m
29	10+470 RT 6m O/S	600mm CSP	5.88m	10+470 RT 8.1m O/S	600mm CSP	8.5m
30	10+475 LT 6.5m O/S	600mm CSP	11.46m	10+475 LT 7.2m O/S	600mm CSP	12m
31	10+492 RT 5.9m O/S	600mm CSP	13.65m	10+492 RT 8.1m O/S	600mm CSP	13.5m
32	10+497 LT 6.5m O/S	600mm CSP	5.80m	10+497 LT 7.1m O/S	600mm CSP	7.5m
33	10+512 LT 6.5m O/S	600mm CSP	5.79m	10+512 LT 7.1m O/S	600mm CSP	6.5m
34	10+520 LT 6.1m O/S	600mm CSP	5.86m	10+520 LT 7.1m O/S	600mm CSP	7m
35	10+536 LT 7.6m O/S	600mm CSP	5.91m	10+536 LT 6.5m O/S	600mm CSP	7m
36	10+552 LT 7.2m O/S	600mm CSP	5.89m	10+552 LT 6.5m O/S	600mm CSP	7m
37	10+571 LT 6.5m O/S	600mm CSP	5.78m	10+571 LT 6.5m O/S	600mm CSP	6.5m
38	10+580 LT 6.2m O/S	600mm CSP	5.52m	10+580 LT 6.5m O/S	600mm CSP	6.5m
39	10+600 LT 6.4m O/S	750mm CSP	19.6m	10+600 LT 6.7m O/S	750mm CSP	20m
40	10+628 LT 7.2m O/S	300mm CSP	5.75m	10+628 LT 7.2m O/S	450mm CSP	7.5m
41	10+649 LT	N/A	–	N/A	–	–
41A	10+654 LT	N/A	–	N/A	–	–
42	10+648 RT	N/A	–	N/A	–	–
43	10+654 RT	N/A	–	N/A	–	–
44	10+664 RT	N/A	–	N/A	–	–
45	10+672 LT 6.3m O/S	450mm CSP	5.72m	10+672 LT 7.1m O/S	450mm CSP	6.5m
46	10+685 RT 6.3m O/S	450mm CSP	5.81m	10+685 RT 7.5m O/S	450mm CSP	6m
47	10+689 LT 6m O/S	450mm CSP	6m	10+689 LT 7.1m O/S	450mm CSP	8m
48	10+700 RT 6.1m O/S	450mm CSP	5.86m	10+700 RT 7.5m O/s	450mm CSP	6.5m
49	10+707 LT 6.2m O/S	450mm CSP	5.95m	10+707 LT 7.1m O/S	450mm CSP	7m
50	10+716 RT 5.9m O/S	450mm CSP	4.46m	10+716 RT 7.5m O/S	450mm CSP	6m
51	10+734 LT 6.8m O/S	450mm CSP	10.6m	10+734 LT 7.1m O/S	450mm CSP	10.5m
52	10+735 RT 5.5m O/S	450mm CSP	5.94m	10+735 RT 7.5m O/S	450mm CSP	6m
53	10+787 LT 6.9m O/S	400mm CSP	5.77m	10+787 LT 7.1m O/S	400mm CSP	7m
54	10+803 LT 6.7m O/S	400mm CSP	8.16m	10+803 LT 7m O/S	400mm CSP	9.5m
55	10+818 RT 5.1m O/S	400mm CSP	9.63m	10+818 RT 8.1m O/S	400mm CSP	9.5m
56	10+828 LT 6.2m O/S	400mm CSP	10.84m	10+828 LT 7.1m O/S	400mm CSP	9m
57	10+829 RT 5.5m O/S	400mm CSP	5.83m	10+829 RT 8.1m O/S	400mm CSP	8m
58	10+848 RT 5.3m O/S	400mm CSP	5.99m	10+848 RT 8.1m O/S	400mm CSP	7m
59/59A	10+866 LT 6.2m O/S	400mm CSP	20.57m	10+866 RT 8.1m O/S	400mm CSP	23m
60	10+862 RT 5.5m O/S	400mm CSP	3.48m	10+862 RT 8.1m O/S	400mm CSP	5m
61	10+866 RT 5.9m O/S	400mm CSP	6.02m	10+866 RT 7.8m O/S	400mm CSP	6m
62	10+891 LT 6.1m O/S	450mm CSP	5.57m	10+891 LT 7m O/S	450mm CSP	8.5m
63	10+903 RT 6.2m O/S	400mm CSP	2.94m	10+903 RT 7.1m O/S	400mm CSP	3m
64	10+922 LT 6.3m O/S	600mm CSP	10.92m	10+922 LT 7m O/S	600mm CSP	13m

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PROVINCE OF ONTARIO

NOTE:
IF EXISTING CULVERT IS IN GOOD CONDITION AND APPROVED BY CONTRACT ADMINISTRATOR, IT SHALL BECOME THE PROPERTY OF THE TOWNSHIP OF HORNEPAYNE

SUBMISSION	DRN	CHK	DES	DD.MM.YY
ISSUE FOR TENDER	EO	KB	KM	14.04.25

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CLIENT
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PROJECT
THIRD AVENUE RECONSTRUCTION RFP-NO.2025-04-14

TITLE
CULVERT TABLES

PROJECT NO.
23-089-01

DATE
14.04.2025

REV NO.
0

FIGURE NO.
12

TABLE 4 – LEFT DITCHING

GEODETIC DITCHING LT		
STATION	OFFSET	ELEVATION
10+000	7.1m	356.179
10+008	7.1m	356.464
10+016	7.1m	356.768
10+032	7.1m	356.810
10+053	7.1m	356.516
10+075	7.1m	356.065
10+082	7.1m	355.787
10+098	7.1m	355.351
10+114	7.1m	354.717
10+122	7.1m	354.500
10+142	7.1m	353.859
10+164	7.1m	352.978
10+180	7.1m	352.345
10+225	8.1m	350.795
10+227	7.1m	350.535
10+248	7.1m	349.739
10+264	7.1m	349.162
10+269	7.1m	349.032
10+284	7.1m	348.616
10+294	7.1m	348.330
10+310	7.1m	347.938
10+325	7.3m	347.159
10+325	9m	347.187
10+343	7.1m	346.926
10+345	7.1m	346.786
10+370	7.1m	346.391
10+375	7.1m	346.271
10+376	7.1m	346.239
10+387	7.1m	345.965
10+397	7.1m	345.716
10+404	7.1m	345.551
10+411	7.1m	345.361
10+422	7.1m	345.033
10+428	7.1m	344.928
10+429	7.1m	344.889
10+437	7.1m	344.589
10+452	7.1m	344.265
10+468	7.1m	344
10+481	9m	344.456
10+481	7m	344.092
10+492	7.1m	343.564
10+500	7.1m	343.394
10+509	7.1m	343.195
10+516	7.1m	343.033

GEODETIC DITCHING LT		
STATION	OFFSET	ELEVATION
10+517	7.1m	343.009
10+524	6.5m	342.950
10+533	6.5m	342.776
10+541	6.5m	342.605
10+549	6.5m	342.426
10+556	6.5m	342.289
10+565	6.5m	342.133
10+572	6.5m	342.028
10+576	6.5m	341.957
10+583	6.5m	341.849
10+595	6.5m	341.705
10+617	7.1m	341.309
10+626	7.1m	341.233
10+632	7.1m	341.167
10+646	7.1m	341.057
10+659	7.1m	340.879
10+669	7.1m	340.675
10+676	7.1m	340.600
10+685	7.1m	340.314
10+694	7.1m	339.880
10+704	7.1m	339.357
10+712	7.1m	339.045
10+727	7.1m	338.408
10+738	7.1m	337.909
10+750	7.1m	337.413
10+762	7.1m	336.866
10+776	7.1m	336.323
10+783	7.1m	335.998
10+791	7.1m	335.687
10+799	7.1m	335.372
10+808	7.1m	334.890
10+823	7.1m	334.364
10+833	7.1m	334.040
10+844	7.1m	333.845
10+855	7.1m	333.269
10+877	7.1m	332.544
10+887	7.1m	332.195
10+895	7.1m	331.914
10+915	9m	331.677
10+915	7m	331.241
10+929	7.1m	330.950
10+943	7.1m	330.713
10+955	7.1m	330.589

TABLE 4 – RIGHT DITCHING

GEODETIC DITCHING RT		
STATION	OFFSET	ELEVATION
10+021	6.8m	357.071
10+037	6.8m	357.016
10+046	6.8m	356.738
10+069	6.8m	356.354
10+077	6.8m	356.181
10+095	6.8m	355.638
10+104	6.8m	355.325
10+119	6.8m	354.679
10+137	6.8m	354.176
10+147	6.8m	353.850
10+164	6.8m	353.050
10+184	7.2m	352.100
10+186	7.2m	352.000
10+194	7.2m	351.980
10+195	7.2m	351.850
10+203	7.3m	351.697
10+220	7.3m	351.039
10+229	7.3m	350.582
10+256	7.3m	349.627
10+273	7.8m	348.971
10+283	7.8m	348.697
10+292	8.1m	348.340
10+311	8.1m	347.862
10+327	8.1m	347.492
10+337	7.8m	347.332
10+354	7.8m	346.865
10+365	7.8m	346.529
10+384	7.8m	345.063
10+395	7.8m	345.804
10+407	7.8m	345.514
10+416	7.8m	345.173
10+427	7.8m	344.868
10+441	7.8m	344.492
10+447	7.8m	344.460
10+453	8.1m	344.137
10+465	8.1m	344.060
10+474	8.1m	343.869
10+484	8.1m	343.700
10+498	8.1m	343.391
10+522	8.1m	342.826
10+542	8.1m	342.339
10+562	8.1m	341.934
10+582	8.1m	341.615
10+598	8.3m	341.342

GEODETIC DITCHING RT		
STATION	OFFSET	ELEVATION
10+601	9.5m	341.065
10+615	7.5m	341.100
10+616	7.5m	341.220
10+631	7.5m	341.230
10+641	7.5m	341.523
10+670	7.5m	340.709
10+680	7.5m	340.417
10+687	7.5m	340.210
10+695	7.5m	339.796
10+702	7.5m	339.498
10+711	7.5m	339.003
10+717	7.5m	338.820
10+731	7.5m	338.204
10+738	7.5m	337.952
10+756	7.5m	337.311
10+760	9m	336.919
10+788	8.1m	335.724
10+811	8.1m	334.729
10+821	8.1m	334.346
10+826	8.1m	334.200
10+832	8.1m	333.944
10+843	8.1m	333.564
10+851	8.1m	333.305
10+860	8.1m	333.033
10+863	8.1m	332.792
10+882	8.1m	332.191
10+888	6.5m	332.110
10+902	6.5m	331.701
10+904	6.5m	331.597
10+910	6.5m	331.410
10+913	9m	331.194

TABLE 5 – OFFTAKE/INTAKE DITCH LIST

STATION	LENGTH (L)	ACTION
10+270 LT	3.18m	CLEAN OUT EXISTING OFFTAKE
10+283 RT	3.1m	CLEAN OUT EXISTING INTAKE
10+374 LT	2m	CLEAN OUT EXISTING OFFTAKE, REQUIRES MINIMAL GRUBBING
10+428 RT	3.5m	PRIVATE INTAKE, CLEAN OUT TO ENSURE POSITIVE DRAINAGE
10+426 LT	4m	PRIVATE INTAKE, ENSURE POSITIVE DRAINAGE
10+441 RT	3.5m	CLEAN OUT EXISTING OFFTAKE

NOTES:
1. SEE DETAIL 1 FOR DITCH CLEAN OUT GUIDELINES.
2. L= THE APPROXIMATE LENGTH FROM NEW GEODETIC DITCH THAT REQUIRES CLEAN OUT.
3. OFFSET LENGTH IN TABLES 3 AND 4 ARE MEASURED FROM THE NEW THIRD AVENUE ℄ ALIGNMENT.
4. DITCHING TEMPLATES CAN BE PROVIDED TO CONTRACTOR.
5. ALL ELEVATIONS ARE GEODETIC (UTM NAD83 16, CGVD28:78).

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TOWNSHIP OF HORNEPAYNE
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PROJECT
THIRD AVENUE RECONSTRUCTION

TITLE
DITCHING TABLES

PROJECT NO. 23-089-01

DATE 14.04.2025

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TABLE 6 – PRIVATE ENTRANCES (GRAVEL)

NUMBER	STATION	TYPE	LENGTH	AREA
OLD LAND/FOREST RD	10+010 RT	PUBLIC GRAVEL	5m	50m²
1	10+023 LT	PRIVATE GRAVEL	5m	45m²
2	10+041 RT	PRIVATE GRAVEL	4m	23m²
3	10+074 RT	PRIVATE GRAVEL	4m	18m²
4	10+079 LT	PRIVATE GRAVEL	6m	23m²
5	10+100 RT	PRIVATE GRAVEL	4m	27m²
6	10+117 LT	PRIVATE GRAVEL	5m	25m²
8	10+160 LT	PRIVATE GRAVEL	5m	23m²
9	10+195 LT	POST OFFICE	5m	130m²
10	10+190 RT	PRIVATE GRAVEL	5m	20m²
11	10+198 RT	PRIVATE GRAVEL	5m	28m²
12	10+224 RT	PRIVATE GRAVEL	4.5m	24m²
14	10+262 RT	PRIVATE GRAVEL	4.5m	35m²
16	10+288 RT	PRIVATE GRAVEL	4.5m	24m²
17	10+288 LT	PRIVATE GRAVEL	5m	38m²
20	10+361 RT	PRIVATE GRAVEL	5m	22m²
21	10+372 LT	PRIVATE GRAVEL	4m	33m²
22	10+390 RT	PRIVATE GRAVEL	5m	10m²
23	10+391 LT	PRIVATE GRAVEL	5m	26m²
24	10+407 LT	PRIVATE GRAVEL	5m	39m²
25	10+412 RT	PRIVATE GRAVEL	5m	27m²
26	10+425 LT	PRIVATE GRAVEL	5m	21m²
27	10+431 LT	PRIVATE GRAVEL	5m	20m²
28	10+450 RT	PRIVATE GRAVEL	5m	23m²
29	10+470 RT	PRIVATE GRAVEL	5m	27m²
31	10+492 RT	PRIVATE GRAVEL	5m	54m²
32	10+497 LT	PRIVATE GRAVEL	5m	21m²
33	10+512 LT	PRIVATE GRAVEL	5m	20m²
34	10+520 LT	PRIVATE GRAVEL	5m	21m²
35	10+536 LT	PRIVATE GRAVEL	5m	25m²
36	10+552 LT	PRIVATE GRAVEL	5m	21m²
37	10+571 LT	PRIVATE GRAVEL	5m	17m²
38	10+580 LT	PRIVATE GRAVEL	5m	16m²
39	10+600 LT	PRIVATE GRAVEL	5m	51m²
40	10+628 LT	PRIVATE GRAVEL	5m	30m²
41	10+649 LT	PRIVATE GRAVEL	5m	31m²
42	10+648 RT	PRIVATE GRAVEL	5m	37m²
43	10+654 RT	PRIVATE GRAVEL	5m	20m²
44	10+664 RT	PRIVATE GRAVEL	5m	28m²
45	10+672 LT	PRIVATE GRAVEL	5m	16m²
47	10+689 LT	PRIVATE GRAVEL	5m	19m²
49	10+707 LT	PRIVATE GRAVEL	5m	18m²
51	10+734 LT	PRIVATE GRAVEL	5m	35m²
53	10+787 LT	PRIVATE GRAVEL	5m	21m²
54	10+803 LT	PRIVATE GRAVEL	5m	31m²
55	10+818 RT	PRIVATE GRAVEL	5.5m	20m²
57	10+829 RT	PRIVATE GRAVEL	6m	22m²
58	10+848 RT	PRIVATE GRAVEL	6.5m	23m²
59	10+866 LT	PRIVATE GRAVEL	6m	22m²
59A	10+871 LT	PRIVATE GRAVEL	6m	33m²
60	10+862 RT	PRIVATE GRAVEL	2.5m	6m²
62	10+891 LT	PRIVATE GRAVEL	5m	23m²
63	10+903 RT	GRAVEL WALKWAY	2.5m	4m²
65	10+960 LT	PRIVATE GRAVEL	5m	27m²
66	10+984 LT	PRIVATE GRAVEL	5m	200m²
FIRMAN AVE	10+040 RT	PUBLIC GRAVEL	3m	22m²

TABLE 6A – PRIVATE ENTRANCES (ASPHALT)

NUMBER	STATION	TYPE	LENGTH	AREA
7	10+143 RT	PRIVATE ASPHALT	4.5m	30m²
13	10+255 LT	PRIVATE ASPHALT	5m	71m²
15	10+268 RT	PRIVATE ASPHALT	4.5m	15m²
19	10+334 RT	PRIVATE ASPHALT	4m	17m²
41A	10+654 LT	PRIVATE ASPHALT	4m	22m²
46	10+685 RT	PRIVATE ASPHALT	5.5m	21m²
48	10+700 RT	PRIVATE ASPHALT	5m	22m²
50	10+716 RT	PRIVATE ASPHALT	5.5m	23m²
52	10+735 RT	PRIVATE ASPHALT	6m	19m²
56	10+828 LT	PRIVATE ASPHALT	5m	26m²
61	10+866 RT	PRIVATE ASPHALT	6m	24m²

NOTES
1. LENGTH (L) IS THE DISTANCE OF GRADING REQUIRED, MEASURED FROM EDGE OF ASPHALT (PAVED SHOULDER LT/PAVED WALKWAY RT).
2. PRIVATE ENTRANCES TO BE REINSTATED IN EQUAL OR BETTER CONDITION.
3. SEE DETAIL 3 FOR TYPICAL CONSTRUCTION.
4. ENTRANCE AREA IS APPROXIMATE AND GIVEN FOR QUANTITY PURPOSES.
5. 50mm HL4 ASPHALT TO BE PROVIDED FOR ALL PAVED ENTRANCES.
6. ANY PRIVATE ENTRANCES WITH CURBS, RETAINING WALLS, ETC MUST BE REPAIRED OR REPLACED IF DISRUPTED OR DISTURBED.

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PROJECT
THIRD AVENUE RECONSTRUCTION RFP-NO.2025-04-14

TITLE
PRIVATE ENTRANCE TABLES

PROJECT NO. 23-089-01
DATE 14.04.2025
REV NO. 0
FIGURE NO. 14

TABLE 7 – ROADWAY SIGNS

EXISTING SIGN LOCATION			NEW REPLACEMENT	
TYPE	STATION/OFFSET	SIGN CODE	STATION/OFFSET	ACTION
CHILDREN AT PLAY	10+029 RT 5.5m O/S	CUSTOM	10+029 RT 6.5m O/S	RE-INSTALL WITH NEW POST
SNOWMOBILE 20KM/H	10+029 RT 5.5m O/S	CUSTOM	10+029 RT 6.5m O/S	RE-INSTALL WITH NEW POST
MURPHY LN. STOP SIGN	10+145 LT 8.9m O/S	Ra-1	10+145 LT 7.2m O/S	NEW SIGN AND POST
ECOMADINA AVE. STOP SIGN	10+205 LT 7.8m O/S	Ra-1	10+205 LT 7.2m O/S	NEW SIGN AND POST
NESSOMADINA AVE. STOP SIGN	10+328 LT 8.5m O/S	Ra-1	10+328 LT 7.2m O/S	NEW SIGN AND POST
SCHOOL CROSSING	10+419 LT 5.8m O/S	Rb-6	10+419 LT 5.8m O/S	NEW POST
LAIRD ST. STOP SIGN	10+470 LT 6.8m O/S	Ra-1	10+470 LT 7.2m O/S	REPLACE WITH NEW SIGN/POST
THIRD ST. N STOP SIGN	10+607 LT 9.5m O/S	Ra-1	10+607 LT 7.2m O/S	NEW POST
THIRD ST. S STOP SIGN	10+613 RT 7m O/S	Ra-1	10+613 RT 8.2m O/S	REPLACE WITH NEW SIGN/POST
SECOND ST. N STOP SIGN	10+763 LT 10.5m O/S	Ra-1	10+763 LT 7.2m O/S	NEW POST
SECOND ST. S STOP SIGN	10+771 RT 6.5m O/S	Ra-1	10+771 RT 6.5m O/S	REPLACE WITH NEW SIGN/POST
FIRST ST. N STOP SIGN	10+918 LT 9.6m O/S	Ra-1	10+918 LT 7.2m O/S	REPLACE WITH NEW SIGN/POST
FIRST ST. S STOP SIGN	10+926 RT 6.7m O/S	Ra-1	10+926 RT 6.7m O/S	NEW POST
SNOWMOBILE 20KM/H	10+948 LT 5.5m O/S	CUSTOM	10+948 LT 5.5m O/S	RE-INSTALL WITH NEW POST
SPEED LIMIT 40KM/H	10+948 LT 5.5m O/S	Rb-1A	10+948 LT 5.5m O/S	REPLACE WITH NEW SIGN/POST
CHILDREN AT PLAY	10+948 LT 7m O/S	CUSTOM	10+948 LT 7m O/S	RE-INSTALL WITH NEW POST
WEST END RD. STOP SIGN	11+019 LT 9m O/S	Ra-1	11+019 LT 7.2m O/S	NEW POST
FIRMAN AVE. STOP SIGN	11+043 RT 8.7m O/S	Ra-1	11+043 RT 8.7m O/S	NEW POST
THIRD AVE. STOP SIGN	11+072 RT 6.5m O/S	Ra-1	11+072 RT 6.5m O/S	NEW POST

TABLE 8 – PAVEMENT MARKINGS

TYPE	STATION START	STATION END	OFFSET	LINE WIDTH
SOLID YELLOW	10+000	10+075	0	0.1m
SOLID WHITE	10+000	10+142	3.5m LT	0.1m
SOLID WHITE	10+000	10+599	4.5m RT	0.1m
SOLID WHITE	10+155	10+201	3.5m LT	0.1m
SOLID WHITE	10+226	10+325	3.5m LT	0.1m
SOLID WHITE	10+343	10+468	3.5m LT	0.1m
SOLID WHITE	10+483	10+604	3.5m LT	0.1m
SOLID WHITE	10+616	10+760	4.5m RT	0.1m
SOLID WHITE	10+618	10+760	3.5m LT	0.1m
SOLID WHITE	10+773	10+913	4.5m RT	0.1m
SOLID WHITE	10+775	10+917	3.5m LT	0.1m
SOLID WHITE	10+926	11+036	4.5m RT	0.1m
SOLID WHITE	10+927	11+017	3.5m LT	0.1m
SOLID WHITE	11+039	11+075	3.5m LT	0.1m
SOLID WHITE	11+043	11+075	4.5m RT	0.1m

TABLE 9 – STOP BAR LOCATIONS

TYPE	ROAD NAME	LINE LENGTH	OFFSET	LINE WIDTH
SOLID WHITE	MURPHY LANE	3.4m	7.5m LT	0.3m
SOLID WHITE	ECOMADINA AVE.	3.4m	7.5m LT	0.3m
SOLID WHITE	NESSOMADINA AVE.	5.5m	7.5m LT	0.3m
SOLID WHITE	LAIRD ST.	3.5m	7.5m LT	0.3m
SOLID WHITE	THIRD ST. N	3.25m	7.5m LT	0.3m
SOLID WHITE	THIRD ST. S	4.5m	8.5m RT	0.3m
SOLID WHITE	SECOND ST. N	3.8m	7.5m LT	0.3m
SOLID WHITE	SECOND ST. S	3.5m	6.8m RT	0.3m
SOLID WHITE	FIRST ST. N	3.1m	7.5m LT	0.3m
SOLID WHITE	FIRST ST. S	5m	7m RT	0.3m
SOLID WHITE	WEST END RD.	7m	7.5m LT	0.3m
SOLID WHITE	THIRD AVE.	4m	10+072 RT	0.3m

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NOTE:
REFER TO ONTARIO TRAFFIC MANUAL (OTM) BOOK 11 AND BOOK 5 FOR SIGN AND LINE PAINTING REQUIREMENTS

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THIRD AVENUE RECONSTRUCTION
RFP-NO.2025-04-14

TITLE
ROAD SIGNS AND LINE PAINTING TABLES

PROJECT NO.
23-089-01

DATE
14.04.2025

REV NO.
0

FIGURE NO.
15

TEMPORARY SITE CONTROL					
POINT	CODE	ELEVATION	NORTHING	EASTING	DESCRIPTION
100	FH	354.335	5453787.947	660924.704	FIRE HYDRANT TOP NUT
102	RIB	347.592	5453945.283	661299.394	ROUND IRON BAR
103	FH	342.462	5454009.406	661573.404	FIRE HYDRANT TOP NUT
104	FH	337.638	5454041.059	661717.476	FIRE HYDRANT TOP NUT
105	FH	332.036	5454075.631	661869.367	FIRE HYDRANT TOP NUT
106	RIB	331.311	5454214.792	661981.899	ROUND IRON BAR

NAD 83 ZONE 16U CSRS CGVD:28

NOTE: CONTRACTOR IS RESPONSIBLE FOR MAINTAINING/INSTALLING NEW TEMPORARY SITE CONTROL THROUGHOUT THE ENTIRETY OF THE PROJECT

THIRD AVE NEW ALIGNMENT						
Type	Parameter	Start Station	End Station	Start Coordinate	Length	End Coordinate
Tangent	N66°17'03"E	10+000.000	10+086.241	N5453811.054 E660978.214	86.241	N5453845.740 E661057.171
Tangent	N67°20'42"E	10+086.241	10+113.873	N5453845.740 E661057.171	27.633	N5453856.384 E661082.672
Arc	R=200.000	10+113.873	10+125.517	N5453856.384 E661082.672	11.644	N5453860.554 E661093.542
Tangent	N70°40'51"E	10+125.517	10+208.857	N5453860.554 E661093.542	83.339	N5453888.125 E661172.189
Tangent	N70°54'40"E	10+208.857	10+357.540	N5453888.125 E661172.189	148.683	N5453936.750 E661312.696
Tangent	N71°21'48"E	10+357.540	10+501.394	N5453936.750 E661312.696	143.854	N5453982.720 E661449.007
Tangent	N73°39'28"E	10+501.394	10+561.058	N5453982.720 E661449.007	59.664	N5453999.508 E661506.261
Arc	R=200.000	10+561.058	10+573.108	N5453999.508 E661506.261	12.050	N5454002.549 E661517.919
Tangent	N77°06'36"E	10+573.108	10+631.696	N5454002.549 E661517.919	58.588	N5454015.619 E661575.031
Tangent	N77°33'28"E	10+631.696	10+767.400	N5454015.619 E661575.031	135.704	N5454044.857 E661707.547
Tangent	N77°05'07"E	10+767.400	10+922.556	N5454044.857 E661707.547	155.156	N5454079.535 E661858.778
Tangent	N77°17'53"E	10+922.556	11+086.222	N5454079.535 E661858.778	163.666	N5454115.522 E662018.438

ELECTRONIC ALIGNMENT FILE WITH GEODETIC ELEVATIONS WILL BE PROVIDED TO CONTRACTOR

LICENSED PROFESSIONAL ENGINEER
APR 14 2025
K. R. BRIGGS
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PROVINCE OF ONTARIO

SUBMISSION	DRN	CHK	DES	DD.MM.YY
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CLIENT
TOWNSHIP OF HORNEPAYNE

PROJECT
THIRD AVENUE RECONSTRUCTION RFP-NO.2025-04-14

TITLE
ALIGNMENT AND SITE CONTROL TABLES

PROJECT NO. 23-089-01

DATE 14.04.2025

REV NO. 0

FIGURE NO. 16

GENERAL NOTES

1. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE, PRIOR TO START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING BUILDINGS, FIXTURES AND SERVICES FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
3. THE CONTRACTOR SHALL LOCATE ALL WATER SERVICE AND SANITARY LATERALS WITHIN THE LIMITS OF CONTRACT, AND SHALL MAKE MODIFICATIONS / EXTENSIONS TO CONNECT THEM TO THE NEW WATER MAIN AND SANITARY SEWER LINES.
4. ANY ADJUSTMENTS TO THE TOWNSHIP OF HORNEPAYNE, HYDRO ONE AND TELECOMMUNICATIONS CABLES, OR POLES ARE TO BE MADE BY THOSE UTILITIES. CONTRACTOR TO CO-OPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION WITH ATTENTION GIVEN TO SCHEDULING OF WORK.
5. ALL CONSTRUCTION WITHIN ONE (1) METER OF EXISTING UNDERGROUND UTILITIES IS TO BE HAND EXCAVATED.
6. THE CONTRACTOR SHALL ADHERE TO ONTARIO REGULATIONS 406-19 FOR THE MANAGEMENT OF EXCESS SOILS. PROVISIONS FOR TEMPORARY STORAGE OF EXCESS MATERIALS SHALL BE DONE UNTIL CHEMICAL PARAMETERS ARE CONFIRMED.
7. DO NOT ALLOW WATER TO ACCUMULATE IN THE EXCAVATION. HAVE PUMPS RUNNING CONTINUOUSLY IF NECESSARY. DEWATERING SHALL BE ACCORDING TO OPSS 517.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REPLACING AND/OR RELOCATING ALL EXISTING TRAFFIC SIGNS REMOVED DURING CONSTRUCTION.
9. ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR ALL CONSTRUCTION PROJECTS.
10. ALL EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE ESA/TSSA GUIDELINE FOR EXCAVATION IN THE VICINITY OF UTILITY LINES.
11. PRIOR TO COMMENCING ANY EXCAVATION THE EXCAVATOR MUST OBTAIN VALID UTILITY LOCATES FOR THE ENTIRE WORK AREA BY CONTACTING ONTARIO ONE CALL. IN SOME CASES THIRD PARTY INSPECTION MAY BE REQUIRED.
12. FOR ANY EXCAVATIONS GREATER THAN 0.45m IN DEPTH WITHIN 5.0m OF HYDRO ONE / BELL COMMUNICATIONS OR GUY WIRES CONTACT HYDRO ONE OR BELL COMMUNICATIONS FOR STRUCTURE SUPPORT REQUIREMENTS, GIVING 72 HOURS ADVANCE NOTICE.

WATER MAIN NOTES

1. EXISTING TO BE REMOVED BEFORE PLACEMENT OF NEW WATER MAIN.]
2. ALL TEMPORARY WATER SERVICES SHALL BE ERECTED AND FUNCTIONING PRIOR TO REMOVAL OF ANY EXISTING WATER MAIN.
3. ALL NEW WATER MAIN SHALL MATCH THE DEPTH OF EXISTING WATER MAIN.
4. NEW TEE'S AND VALVES TO BE INSTALLED AND SECURED AS PER CITY OF THUNDER BAY STANDARD DRAWINGS W-103, W-111, W-112, W-113 AND W-116.
5. ZINC ANODES ARE TO BE INSTALLED ON ALL FITTINGS, SERVICES AND HYDRANT BOOTS AS PER OPSD 1109.011.
6. NEW WATER MAIN SHALL HAVE No. 2 COPPER TRACER WIRE AND CONDUCTIVITY THAW WIRE. THE TRACER WIRE SHALL BE CAD WELDED TO ALL METALLIC FITTINGS AND HYDRANT BOOTS.
7. NEW WATER MAIN TO BE DISINFECTED AND PRESSURE TESTED IN ACCORDANCE WITH CITY OF THUNDER BAY STANDARD DRAWING W-117-1 AND CONFORMING WITH AWWA STANDARD C851 FOR DISINFECTING WATER MAIN. CHLORINATION POINTS SHALL BE PROVIDED TO COINCIDE WITH THE SEGMENTS TO BE TESTED AND REMOVED THEREAFTER. CONTRACTOR IS RESPONSIBLE FOR ANY FLUSHING POINTS WITHIN THE EXISTING WATER DISTRIBUTION SYSTEM TO ENSURE SUITABLE WATER QUALITY AS A RESULT OF ANY ISOLATION ON DEAD ENDS CREATED DURING THE NEW WORK.
8. ALL ABANDONED MAINLINE VALVES AND EXISTING WATER MAIN PIPING SHALL ALSO BE REMOVED, WHEREVER POSSIBLE.
9. ALL ABANDONED WATER MAIN PIPING UNABLE TO BE REMOVED SHALL BE FILLED WITH SAND AND CAPPED AT BOTH ENDS WITH BRICK AND MORTAR.
10. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING A TEMPORARY WATER PLAN TO SERVICE ALL BUILDINGS DURING THE DURATION OF CONSTRUCTION (TO BE APPROVED BY NORTH ROCK ENGINEERING).
11. WHEN CONNECTING NEW WATER MAIN TO AN EXISTING METALLIC WATER MAIN, ALL PIPE INSTALLED FROM THE NEW VALVE TO CONNECTION POINT TO BE DUCTILE IRON (AWWA C151/A21.51-CLASS 52 CEMENT LINED)
12. NEW HYDRANT SETS TO BE INSTALLED AS PER OPSD 1105.010.
13. NEW GATE VALVES TO BE INSTALLED AS PER CITY OF THUNDER BAY STANDARD DRAWINGS W-103.
14. ALL WATER MAIN VALVE BOX EXTENSION AND LID SHALL BE ADJUSTED TO NEW GRADES WHERE AFFECTED BY THE CONTRACTOR.
15. PROVIDE 50mm DIAMETER SERVICE SADDLE AT CHLORINATION POINTS.

SANITARY SEWER NOTES

1. NEW SANITARY SEWER TO BE CONSTRUCTED AS SHOWN ON PLANS AND TYPICAL SECTIONS, AND SHALL HAVE "CLASS B" BEDDING AS PER CITY OF THUNDER BAY STANDARD DRAWING S-100.
2. PROVIDE TEMPORARY BYPASS PUMPING AS REQUIRED TO KEEP SYSTEM IN SERVICE DURING CONSTRUCTION
3. EXISTING 200mm, 250mm, 300mm DIAMETER SANITARY SEWER TO BE REMOVED IN ITS ENTIRETY.
4. SANITARY MANHOLES No.1-13 TO BE REMOVED AND REPLACED WITH NEW MANHOLES AND COVERS, CONSTRUCTED AS PER OPSD 701.010.
5. EXISTING MANHOLE No.14 IS NOT TO BE CHANGED, BUT TRENCHING WILL BE REQUIRED TO TIE IN NEW SANITARY SEWER.
6. NEW MANHOLE FRAMES AND COVERS SHALL BE PROVIDED FOR ALL MANHOLES (EXCEPT No.14) AND CONFORMING TO OPSD 401.010 TYPE A.
7. FROST STRAP INSTALLATION SHALL CONFORM TO OPSD 701.100
8. EXISTING SIDE ROAD SANITARY SERVICE LINES TO BE RECONNECTED TO THE NEW SANITARY SEWER AND AS SHOWN ON OPSD 1006.010 Rev4.

STORM SEWER NOTES

1. EXISTING STORM SEWER TO BE BRACED DURING EXCAVATION AND CONSTRUCTION.
2. ALL ABANDONED STORM PIPING FOUND WITHIN CONSTRUCTION LIMITS TO BE REMOVED.

CONCRETE NOTES

1. MANHOLE CONRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 35 MPa WITHIN 56 DAYS FOR EXPOSURE CLASS A-1 AS PER A23.1-14
2. CONCRETE THRUST BLOCKS FOR TEES, PLUGS, HORIZONTAL AND VERTICAL BENDS AS PER OPSD 1103.010, 1103.020, 1103.021

ROADWAY NOTES

1. NEW ROAD RECONSTRUCTION SHALL BE AS SHOWN ON PLAN VIEWS AND TYPICAL CROSS-SECTIONS ON THE DRAWINGS.
2. NEW ASPHALT ON THIRD AVENUE SHALL BE TWO (2) - 40mm LIFTS OF HL4 ASPHALT. ASPHALT TO CONFORM WITH OPSS 1151. ASPHALT TO BE PLACED IN ACCORDANCE WITH OPSS 310.
3. GRANULAR 'A' BASE MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY. GRANULAR 'B' SUB-BASE MATERIAL SHALL BE COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE NOTED.
4. ASPHALT TIE-INS TO BE SAW CUT OR STEP-JOINTED AS SHOWN ON DRAWINGS.
5. ALL DRIVEWAYS, YARDS, SHRUBS, CURBS, RETAINING WALLS, ETC, SHALL BE REPLACED IN EQUAL TO OR BETTER CONDITION, TO THE SATISFACTION OF THE TOWNSHIP AND CONSULTANT.
6. RESTORE ASPHALT DRIVEWAYS AND SIDE ROADS WITH 50mm HL4 ASPHALT AND 75mm GRANULAR 'A'.
7. LOCATION AND WIDTH OF DRIVEWAY CUTS SHALL BE CONFIRMED IN THE FIELD BY CONSULTANT.
8. RESHAPE ALL BOULEVARDS DISTURBED BY CONSTRUCTION WITH 75mm TOPSOIL AND SOD AS INDICATED.
9. CONTRACTOR TO PROTECT TREES AND SHRUBS AS MUCH AS POSSIBLE AND EXACT STRIPPING LIMITS TO BE DETERMINED IN THE FIELD BY TOWNSHIP AND CONSULTANT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN ISA CERTIFIED ARBORIST TO PRUNE TREE BRANCHES WITHIN CONTRACT LIMITS (IF REQUIRED).

COTB STANDARD DRAWINGS

M-104-4 TREE PROTECTION
R-100 STREET INTERSECTION, LOCAL ROAD
S-100 BEDDING FOR SANITARY AND STORM SEWER PIPE
W-100 BEDDING FOR WATER MAINS
W-103 INSTALLATION OF GATE VALVE
W-104-1 WATER CONNECTION INSTALLATION & SIZING & THAW/TRACER CABLE INSTALLATION FOR P.V.C WATER MAIN
W-111 SECURING FIRE HYDRANT AND VALVE TO WATER MAIN (MECHANICAL JOINT TYPE)
W-112 SECURING FIRE HYDRANT AND VALVE TO WATER MAIN (MECHANICAL JOINT TYPE)
W-113 SECURING WATER MAIN TEES AND 90° BENDS (MECHANICAL JOINT TYPE)
W-116 WATER MAIN RETAINER CHART
W-117-1 DISINFECTING AND FLUSHING WATER MAINS
W-117-2 PHYSICAL SEPARATION REQUIREMENTS OF NEW WATERMAINS
W-118 ALLOWABLE LEAKAGE FOR WATER MAINS
W-124 PROTECTION OF EXISTING CAST IRON WATERMAIN OVER NEW SANITARY OR STORM SEWER
W-125 BONDING & CATHODIC PROTECTION OF METALLIC MAINS & FITTINGS
W-126 BONDING & CATHODIC PROTECTION OF HYDRANT WITH METALLIC LEADS
W-127 CATHODIC PROTECTION FOR COPPER SERVICES
W-130 NON-METALLIC WATER MAIN THAW/TRACER CABLE INSTALLATION

OPSD STANDARD DRAWINGS

OPSD 219.100 LIGHT DUTY STRAW BALE BARRIER
OPSD 219.110 LIGHT DUTY SILT FENCE BARRIER
OPSD 219.180 STRAW BALE FLOW CHECK DAM
OPSD 401.010 Rev#4 CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES
OPSD 701.010 Rev #5 PRECAST CONCRETE MAINTENANCE HOLE, 1200mm DIAMETER
OPSD 701.021 Rev#4 MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES
OPSD 704.010 Rev#3 PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS
OPSD 701.100 FROST STRAP INSTALLATION
OPSD 802.010 FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION
OPSD 802.013 Rev#3 FLEXIBLE PIPE EMBEDMENT AND BACKFILL ROCK EXCAVATION
OPSD 1006.010 Rev#4 SEWER SERVICE CONNECTIONS FOR RIGID MAIN PIPE SEWER
OPSD 1103.010 Rev#3 CONCRETE THRUST BLOCKS FOR TEES, PLUGS, AND HORIZONTAL BENDS
OPSD 1103.020 Rev#4 CONCRETE THRUST BLOCKS FOR VERTICAL BENDS
OPSD 1103.021 Rev#1 DIMENSION TABLES FOR CONCRETE THRUST BLOCKS FOR VERTICAL BENDS
OPSD 1104.010 Rev#4 WATER SERVICE CONNECTION
OPSD 1104.020 Rev#3 WATER SERVICE CONNECTION, 32, 38, 50mm SIZES
OPSD 1105.010 Rev#3 Rev#4 HYDRANT INSTALLATION
OPSD 1109.011 Rev#3 CATHODIC PROTECTION FOR PVC WATER MAIN SYSTEMS
OPSD 1109.025 WATERPROOFING OF SPLICES

OTM BOOK 5 - REGULATORY SIGNS
OTM BOOK 11 - PAVEMENT, HAZARD AND DELINEATION MARKINGS

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