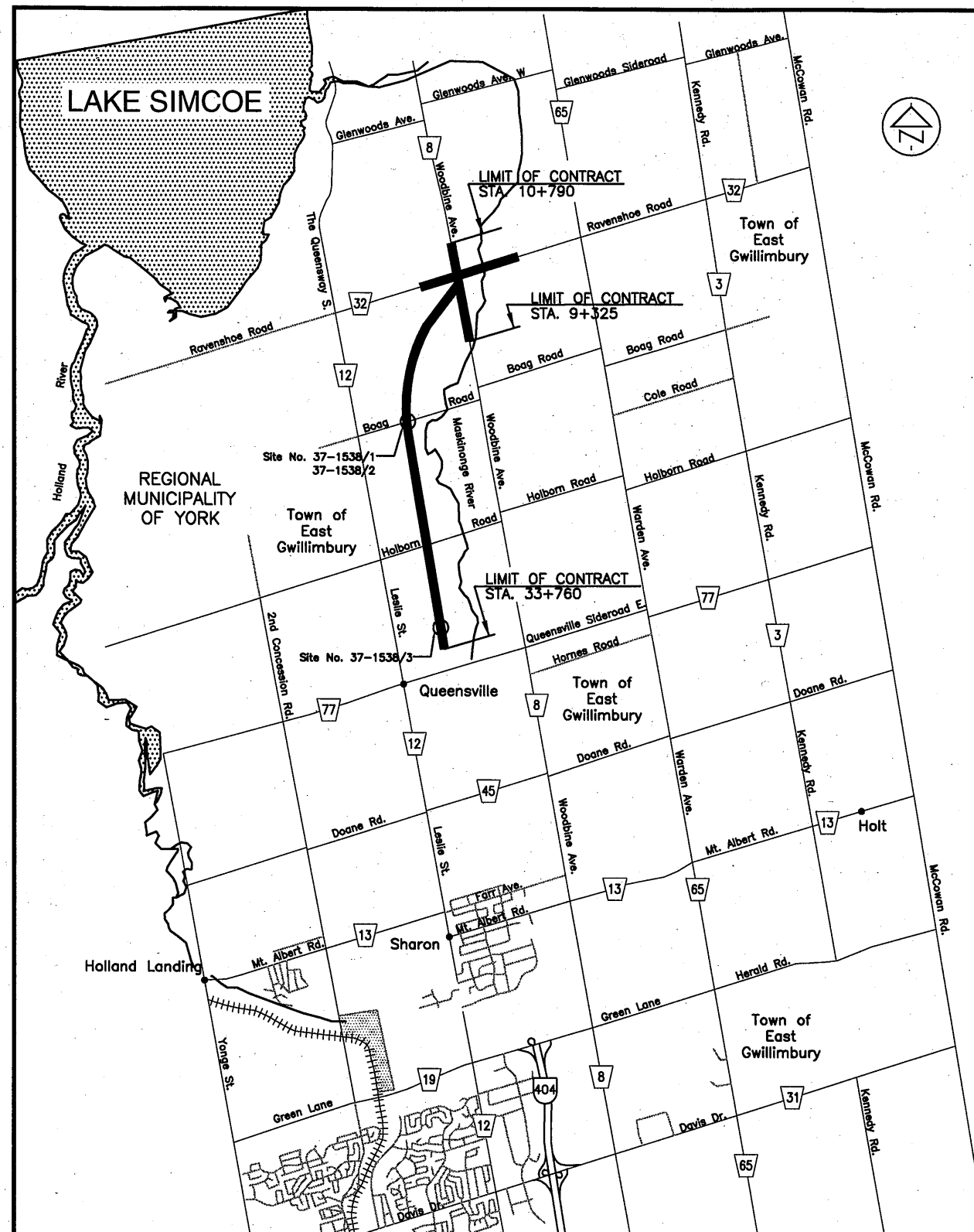


CONTRACT DRAWINGS
CONTRACT NO. XXXX—XXXX
BOOK 1 OF 3

CENTRAL REGION
(90% COMPLETION RE—SUBMISSION)
OCTOBER 1, 2010

Ministry of Transportation





Key Plan
N.T.S

WP No GWP 2005-07-00 Contract No 2005-07-00
 Work of GRADING, DRAINAGE, GRANULAR BASE, HOT MIX PAVING
ELECTRICAL, STRUCTURAL

Hwy No 404 Region CENTRAL
 Location FROM NORTH OF QUEENSVILLE SIDEROAD TO WOODBINE
AVENUE-RAVENSHOE ROAD, TOWN OF EAST GWILLIMBURY,
REGION OF YORK.

Length 5.4 km.

Reference Plans 2002-768-08 TO 2002-768-14

Date _____ P. Eng
 Manager, Engineering

Date _____ P. Eng
 Regional Director

Ministry of Transportation



INDEX

W.P. No. _____
Contract No. _____

2005-07-00

[illegible][illegible]

DRAWING NAME:	DWGNAME	MODIFIED:	MODDATE	MODTIME
CREATED:	CREATED			

PRIMARY HORIZONTAL CONTROL			
POINT ID	NORTHING	EASTING	DESCRIPTION
404	4890739.347	310458.026	00819760194
405	4892629.315	310119.538	00819701675
406	4892947.052	308507.946	00819760195
409	4894265.231	309843.757	00819701676
410	4895285.437	309232.823	00819790316
411	4895400.999	309612.020	00819760425

PRIMARY VERTICAL CONTROL		
BM No.	DESCRIPTION	ELEVATION
3350 (G.S.C.)	ONE STOREY BUILDING (TEXACO SERVICE STATION) AT THE SOUTHWEST CORNER OF THE INTERSECTION OF LESLIE STREET (YORK REGIONAL ROAD #12) AND RAVENSHOE ROAD (YORK REGIONAL ROAD #32). TABLET SET HORIZONTALLY IN EAST FACE OF CONCRETE WALL, 30cm NORTH OF THE SOUTHEAST CORNER OF BUILDING, 30cm ABOVE PAVEMENT.	241.724
41-232 (R.M.Y.)	TABLET SET VERTICALLY IN CONCRETE MONUMENT AT THE SOUTHEAST CORNER OF THE INTERSECTION OF WOODBINE AVENUE (YORK REGIONAL ROAD #32), 46.5m EAST OF EXISTING CENTRELINE OF WOODBINE AVENUE, 13.4m SOUTH OF EXISTING CENTRELINE OF RAVENSHOE ROAD, 40cm NORTH OF POST AND WIRE FENCE.	229.13
523	TOP OF 0.02x2.0 RIB 523/620 W0227213A	244.604
634	WOODBINE AVENUE TOP OF 0.02x2.0 RIB 634 W0227213A	227.708
528	WOODBINE AVENUE ±9+184 9.4m RT TOP OF 0.02x2.0 RIB 528/617 W0227213A	230.803
450	QUEENSVILLE SIDEROAD N4888976.216 E309494.828 TOP OF 0.02x2.0 RIB	282.663
526	BOAG ROAD ±10+699.6 8.9m RT TOP OF 0.02x2.0 RIB 526/621 W0227213A	232.69
522	HOLBORN ROAD ±10+435.5 10.6m LT TOP OF 0.02x2.0 RIB 522/624 W0227213A	240.320
519	HOLBORN ROAD ±9+625.9 6.6m LT TOP OF 0.02x2.0 RIB 519/623 W0227213A	250.694

METRIC

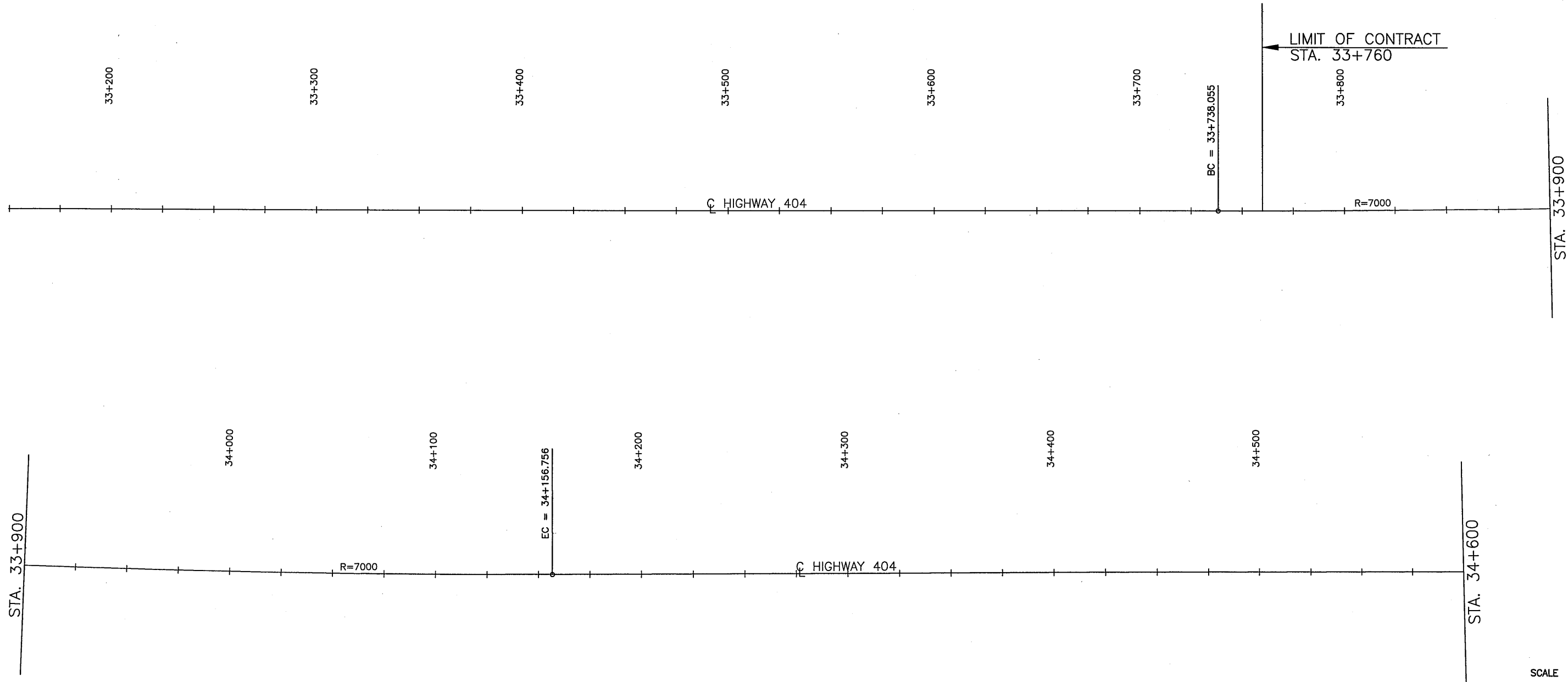
PLATE No
CONT
WP 2005-07-00



ALIGNMENT
STA. 33+760 TO STA. 34+600
Survey _____ Revised _____

SHEET
A-1

AECOM



SCALE
5m 0 10m
Horizontal

METRIC

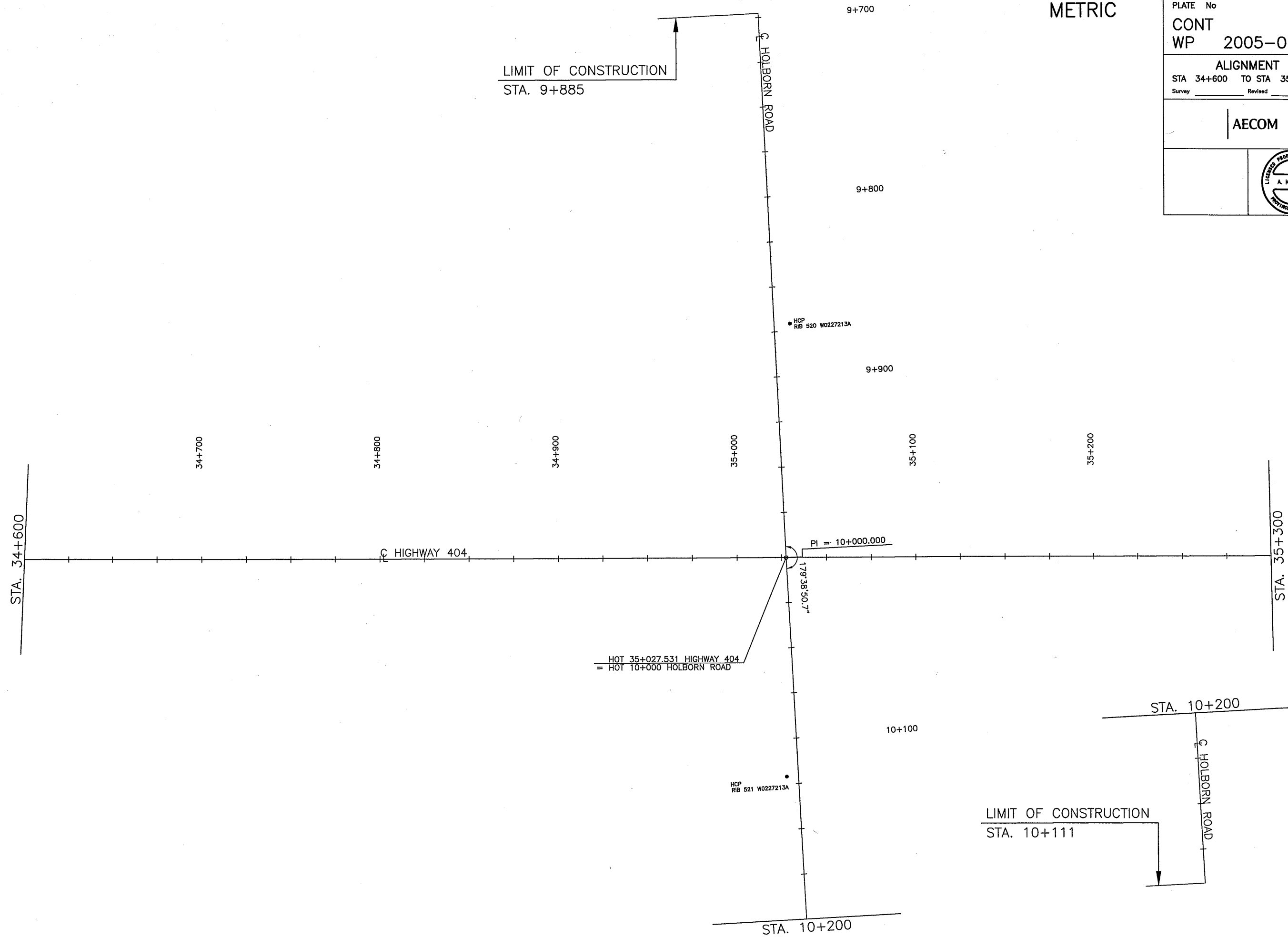
PLATE No
CONT
WP 2005-07-00



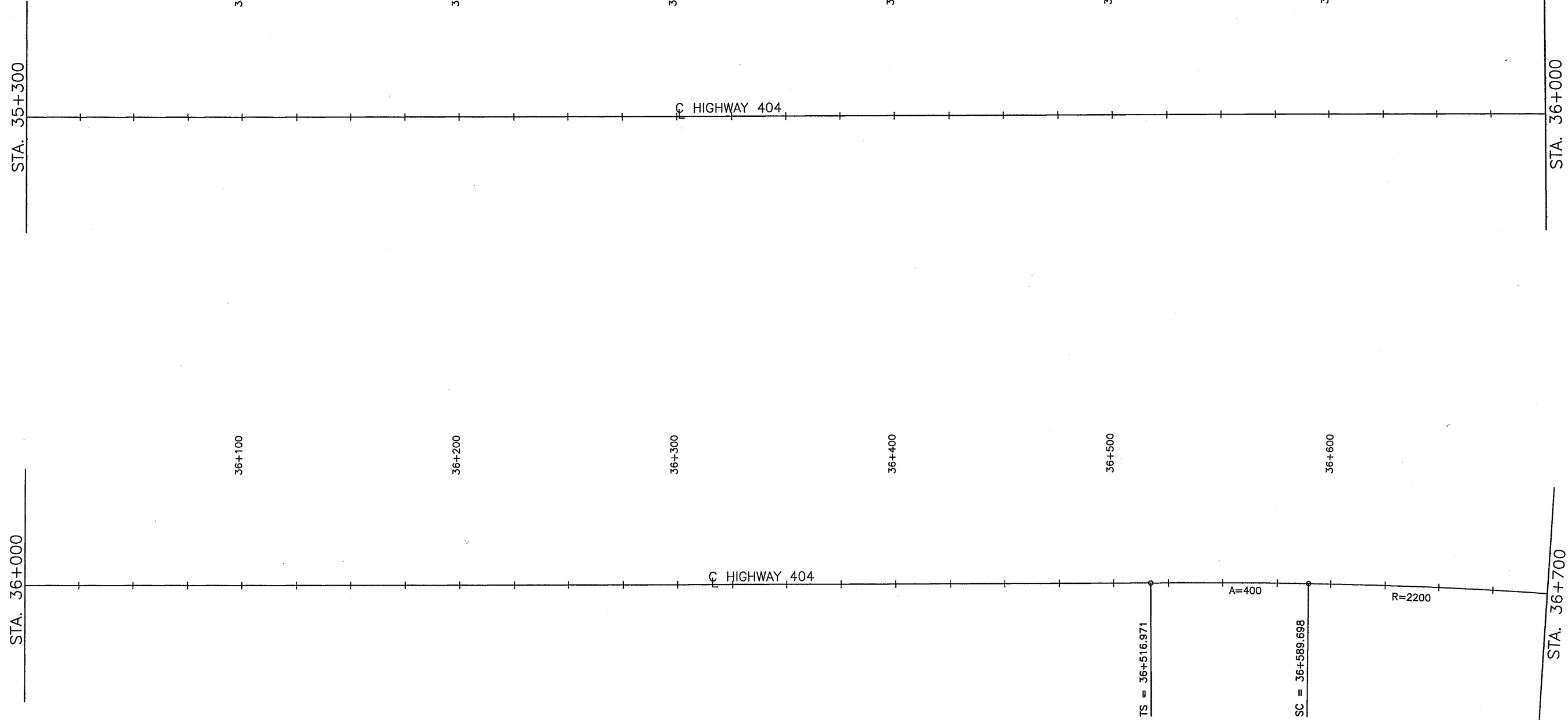
ALIGNMENT
STA 34+600 TO STA 35+300
Survey _____ Revised _____

SHEET
A-2

AECOM



SCALE
5m 0 10m
Horizontal



METRIC

PLATE No
CONT
WP 2005-07-00



ALIGNMENT
STA 35+300 TO STA 36+700
Survey _____ Revised _____


SHEET
A-3

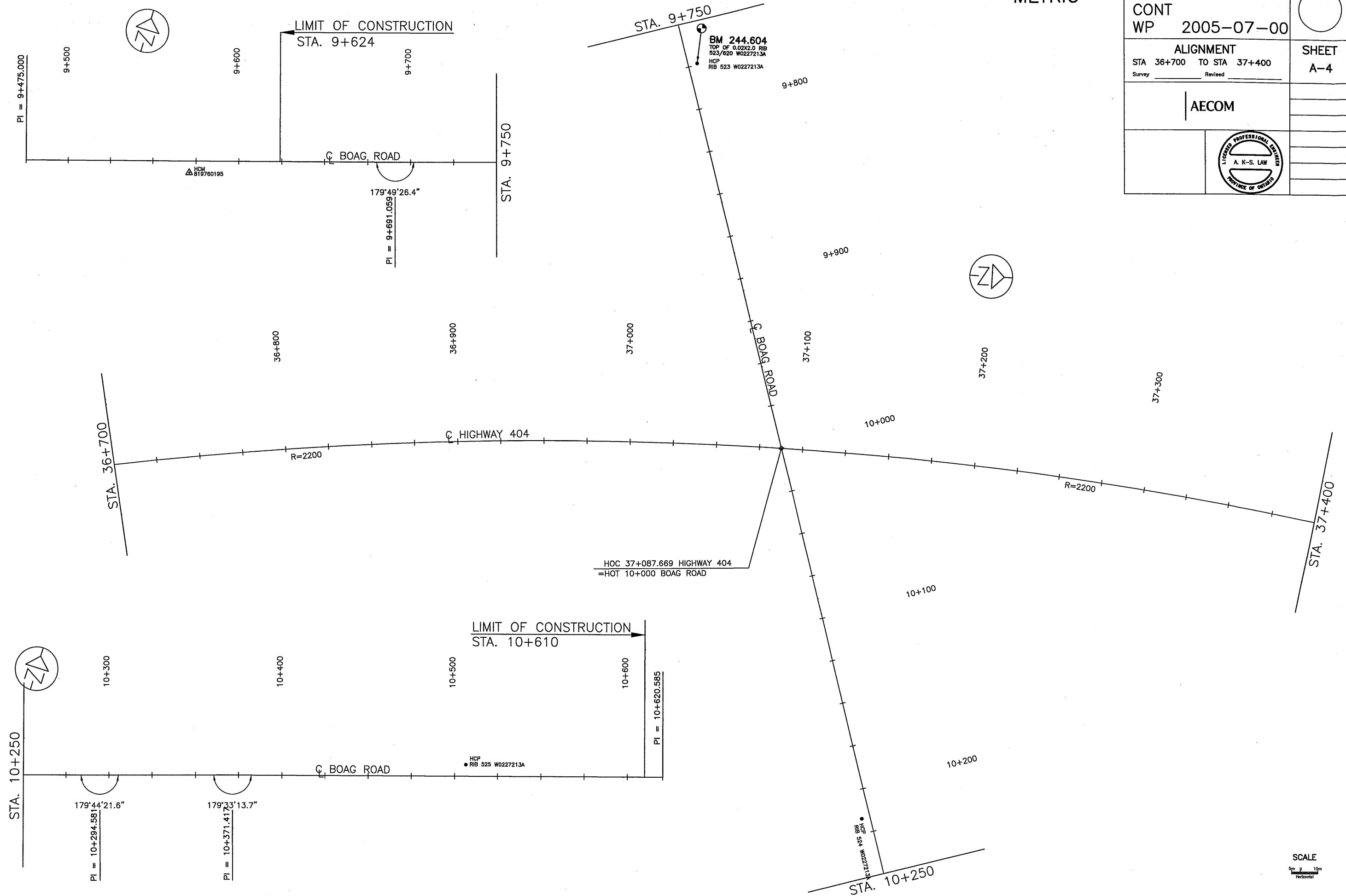
AECOM



SCALE
5m 0 10m
Horizontal

METRIC

PLATE No		SHEET A-4
CONT WP 2005-07-00		
ALIGNMENT STA 36+700 TO STA 37+400 Survey _____ Revised _____		
AECOM		
		



SCALE
5m 0 10m
Horizontal

METRIC

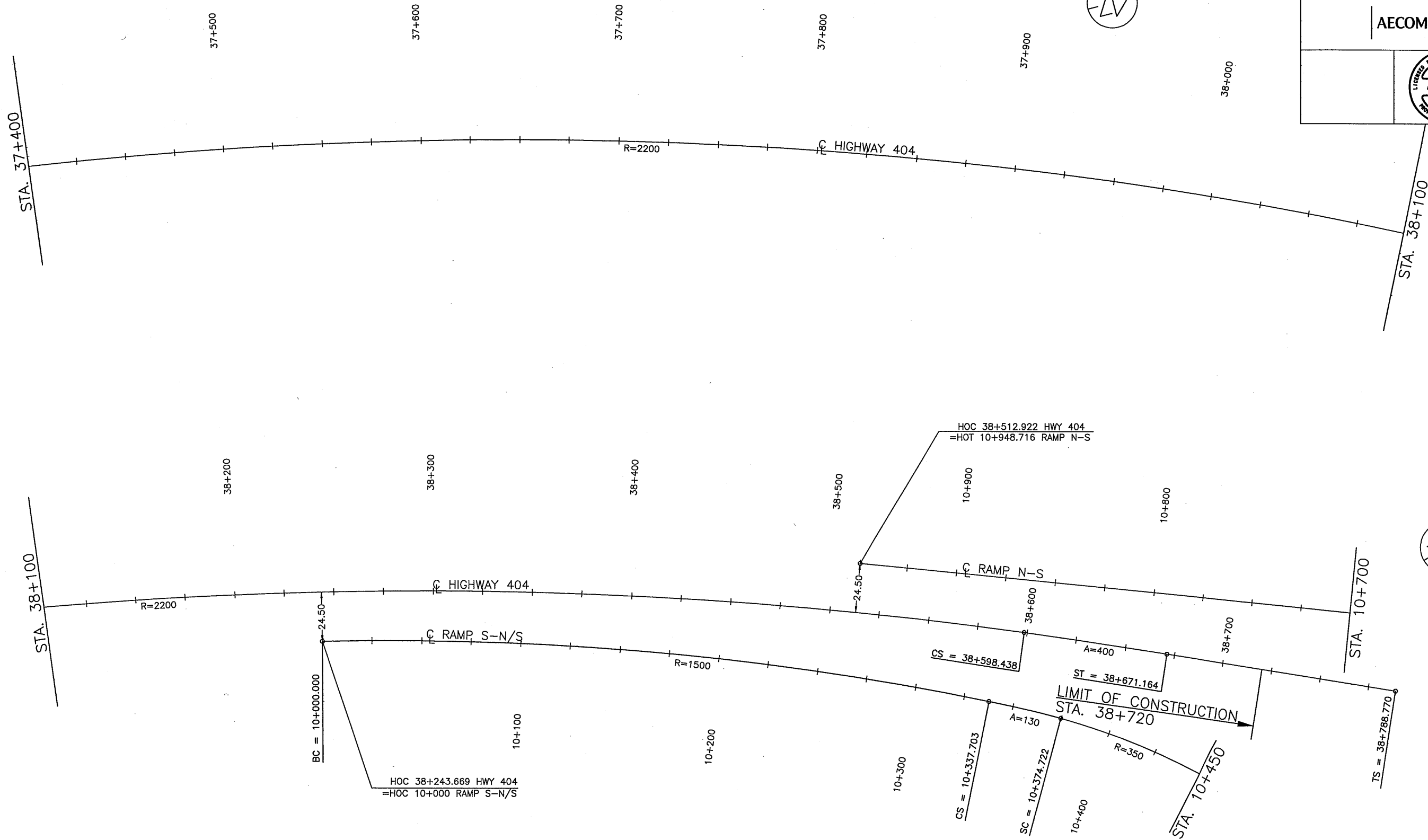
PLATE No
CONT
WP 2005-07-00

ALIGNMENT
STA 37+400 TO STA 38+720
Survey _____ Revised _____

AECOM



SHEET
A-5



SCALE
5m 0 10m
Horizontal

METRIC

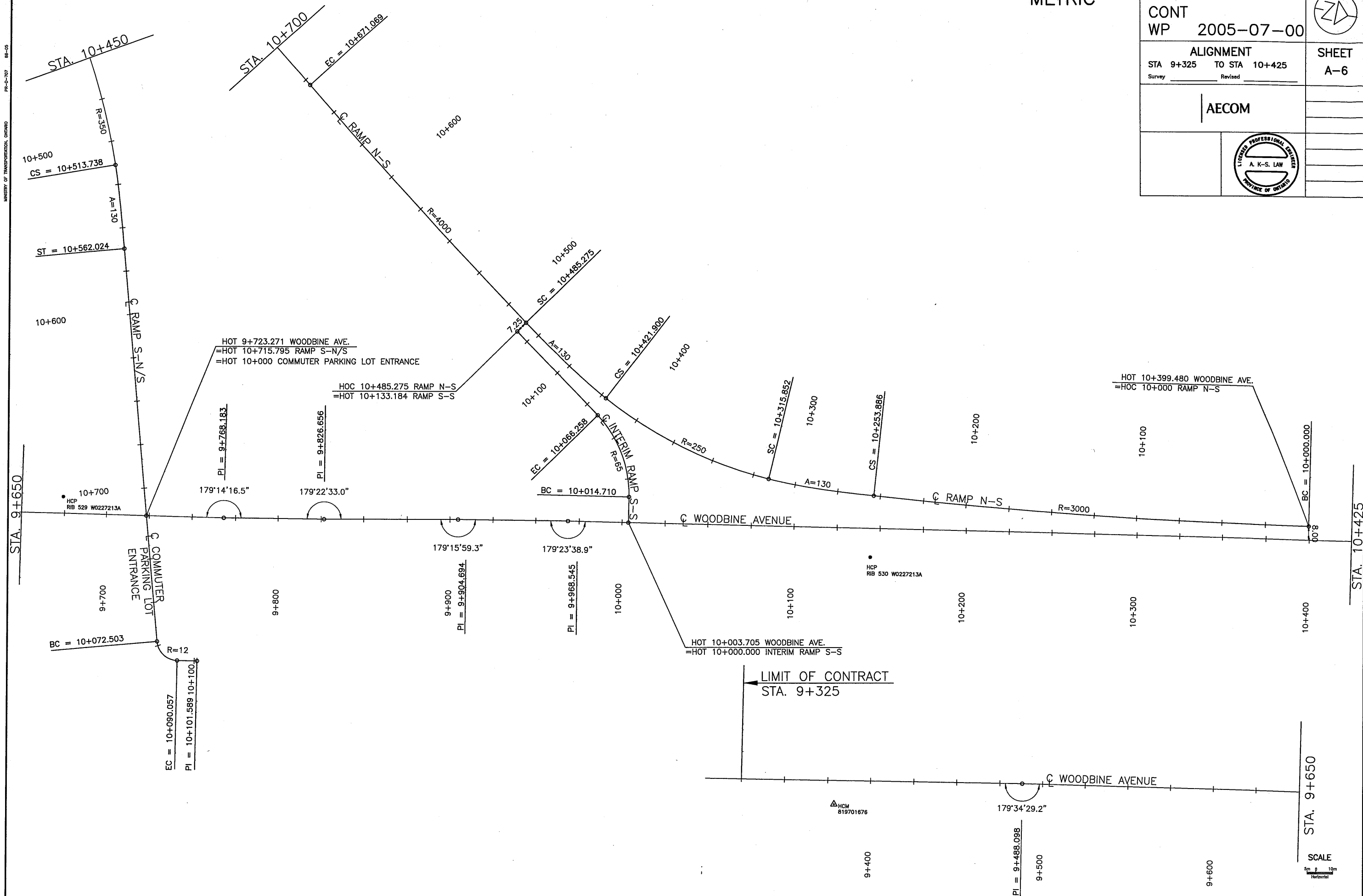
PLATE No
CONT
WP 2005-07-00



ALIGNMENT
STA 9+325 TO STA 10+425
Survey _____ Revised _____

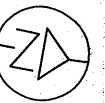
SHEET
A-6

AECOM



METRIC

PLATE No
CONT
WP 2005-07-00



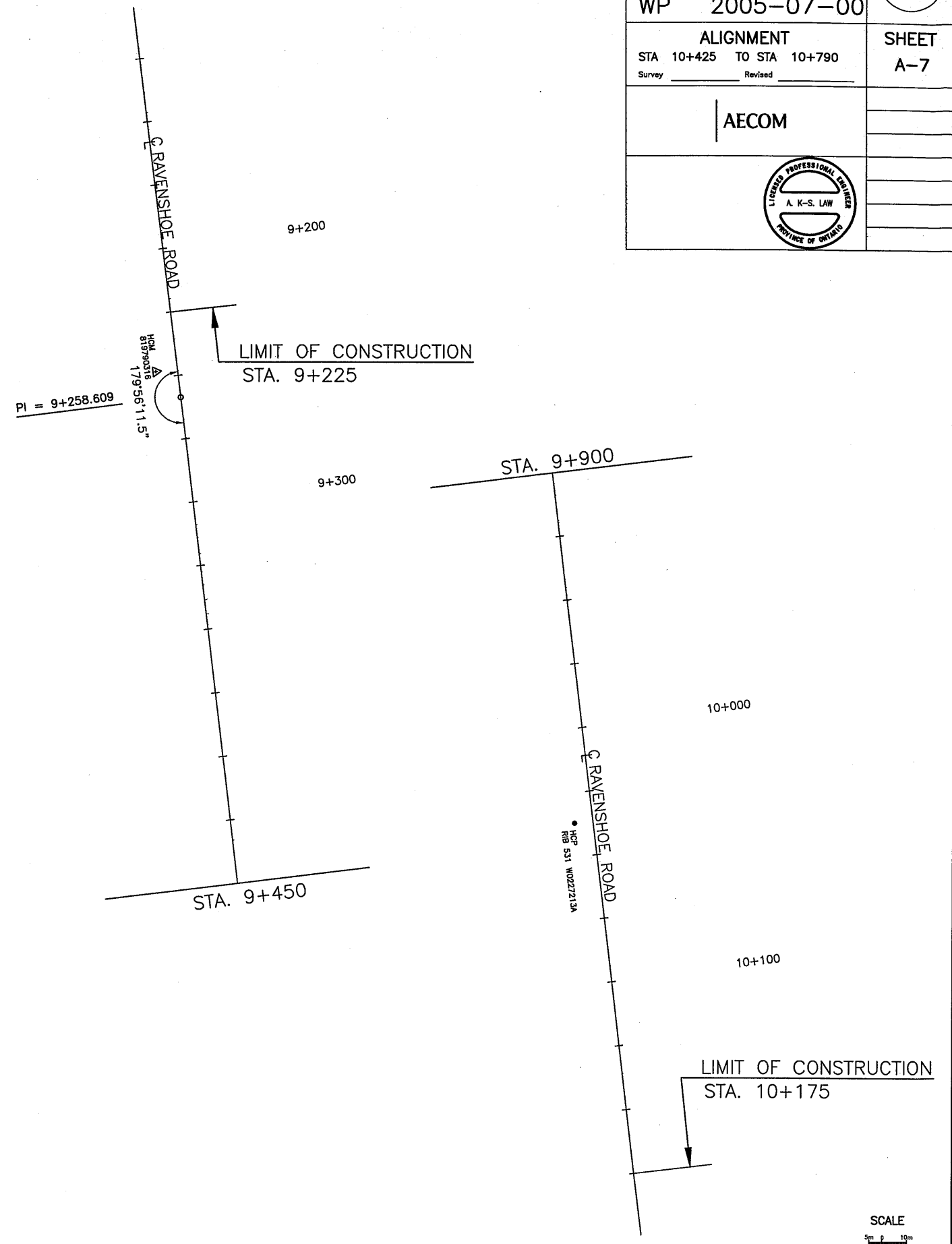
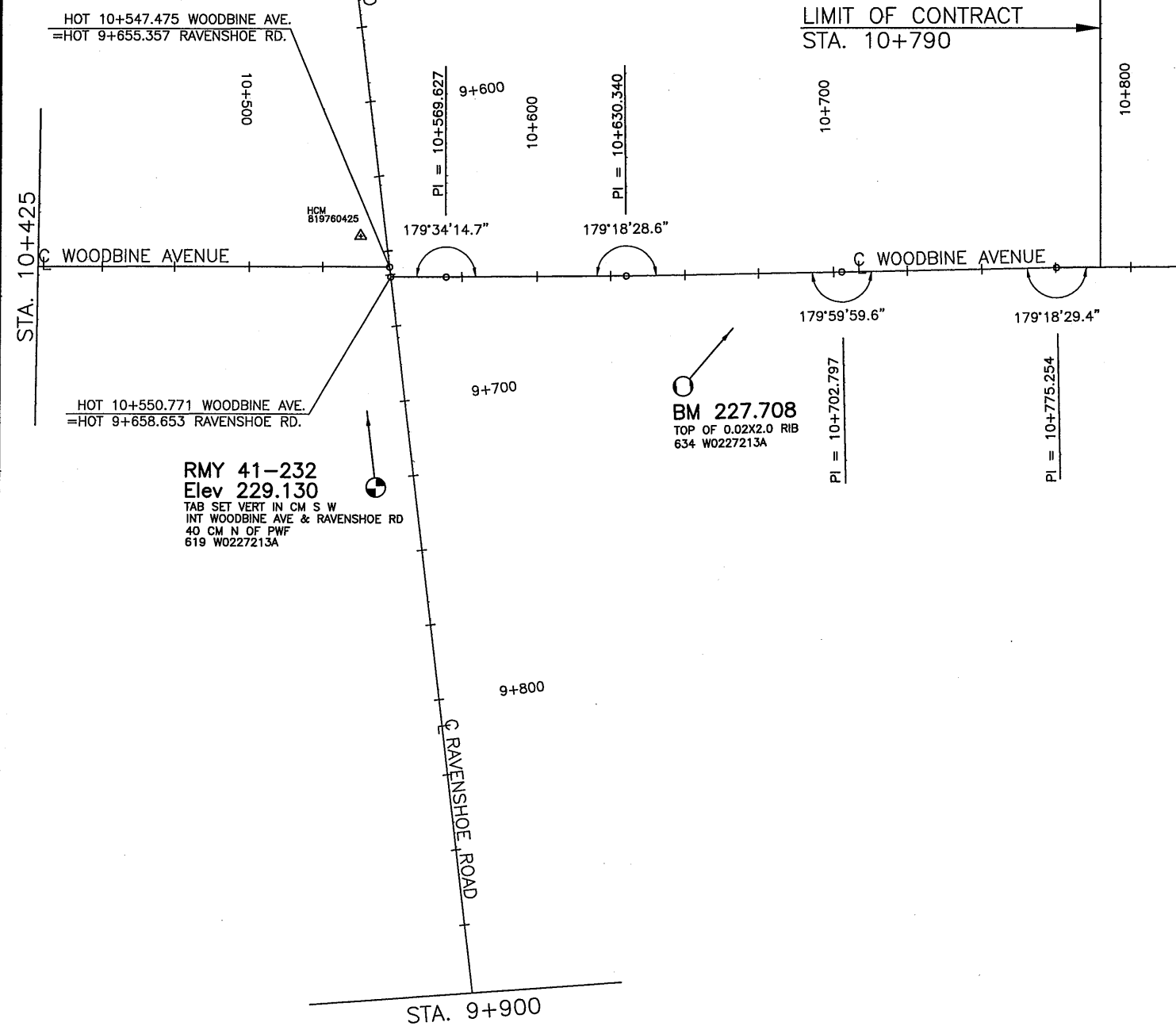
ALIGNMENT
STA 10+425 TO STA 10+790
Survey _____ Revised _____

SHEET
A-7

AECOM



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



DRAWING NAME: 2538-199-00-CT-AUCN-07.dwg
SAVED BY: mazzaferrari
DATE: 9/28/2010 9:09 AM
PLOT DATE: 9/28/2010 3:16 PM

SCALE
5m 0 10m
Horizontal

HIGHWAY 404

	STATION	NORTHING	EASTING
Element: Linear			
PI =	33+190.000	4889278.3797	309748.7409
BC =	33+738.055	4889817.1677	309648.3828
Tangent Direction:	N 10°33'04.9" W		
Tangent Length:	749.196		
Element: Circular			
BC =	33+738.055	4889817.1677	309648.3828
PI =	33+947.468	4890023.0399	309610.0357
CC =	34+156.756	4888535.3493	302766.7448
EC =	34+156.756	4890226.2515	309559.4504
Radius:	7000.000		
Delta:	3°25'37.6" Left		
Degree of Curvature(Arc):	0°49'06.6"		
Length:	418.701		
Tangent:	209.413		
Chord:	418.639		
Middle Ordinate:	3.130		
External:	3.132		
Tangent Direction:	N 10°33'04.9" W		
Radial Direction:	N 79°26'55.1" E		
Chord Direction:	N 12°15'53.7" W		
Radial Direction:	N 76°01'17.5" E		
Tangent Direction:	N 13°58'42.5" W		
Element: Linear			
EC =	34+156.756	4890226.2515	309559.4504
TS =	36+516.971	4892516.5721	308989.3230
Tangent Direction:	N 13°58'42.5" W		
Tangent Length:	2360.215		
Element: Clothoid			
TS =	36+516.971	4892516.5721	308989.3230
SPI =	36+565.456	4892563.6214	308977.6110
SC =	36+589.698	4892587.2399	308972.1446
Entrance Radius:	0.000		
Exit Radius:	2200.000		
Length:	72.727		
Angle:	0°56'49.3" Right		
Constant:	399.998		
Long Tangent:	48.485		
Short Tangent:	24.243		
Long Chord:	72.726		
Xs:	72.725		
Ys:	0.401		
P:	0.100		
K:	36.363		
Tangent Direction:	N 13°58'42.5" W		
Radial Direction:	N 76°01'17.5" E		
Chord Direction:	N 13°39'46.1" W		
Radial Direction:	N 76°58'06.8" E		
Tangent Direction:	N 13°01'53.2" W		
Element: Circular			
SC =	36+589.698	4892587.2399	308972.1446
PI =	37+670.198	4893639.9137	308728.5070
CC =	38+598.438	4894476.2487	309412.6308
CS =	38+598.438	4894476.2487	309412.6308
Radius:	2200.000		
Delta:	52°18'52.9" Right		
Degree of Curvature(Arc):	2°36'15.7"		
Length:	2008.740		
Tangent:	1080.501		
Chord:	1939.686		
Middle Ordinate:	225.309		
External:	251.016		
Tangent Direction:	N 13°01'53.2" W		
Radial Direction:	N 76°58'06.8" E		
Chord Direction:	N 13°07'33.2" E		
Radial Direction:	S 50°43'00.3" E		
Tangent Direction:	N 39°16'59.7" E		
Element: Clothoid			
CS =	38+598.438	4894476.2487	309412.6308
SPI =	38+622.680	4894495.0132	309427.9802
ST =	38+671.164	4894532.0293	309459.2947
Entrance Radius:	2200.000		
Exit Radius:	0.000		
Length:	72.726		
Angle:	0°56'49.3" Right		
Constant:	399.998		
Long Tangent:	48.485		
Short Tangent:	24.243		
Long Chord:	72.725		
Xs:	72.724		
Ys:	0.401		
P:	0.100		
K:	36.363		
Tangent Direction:	N 39°16'59.7" E		
Radial Direction:	S 50°43'00.3" E		
Chord Direction:	N 39°54'52.5" E		
Radial Direction:	S 49°46'11.0" E		
Tangent Direction:	N 40°13'49.0" E		
Element: Linear			
ST =	38+671.164	4894532.0293	309459.2947
TS =	38+788.770	4894621.8160	309535.2517
Tangent Direction:	N 40°13'49.0" E		
Tangent Length:	117.606		

BOAG ROAD

	STATION	NORTHING	EASTING
Element: Linear			
PI =	9+475.000	4892924.9921	308414.1752
BC =	9+691.059	4892988.7850	308620.6020
Tangent Direction:	N 72°49'37.5" E		
Tangent Length:	216.059		
Element: Linear			
PI =	9+691.059	4892988.7850	308620.6020
PI =	10+294.581	4893168.7490	309196.6676
Tangent Direction:	N 72°39'03.9" E		
Tangent Length:	603.522		
Element: Linear			
PI =	10+294.581	4893168.7490	309196.6676
PI =	10+371.417	4893191.9942	309269.9030
Tangent Direction:	N 72°23'25.6" E		
Tangent Length:	76.836		
Element: Linear			
PI =	10+371.417	4893191.9942	309269.9030
PI =	10+620.585	4893265.5230	309507.9750
Tangent Direction:	N 72°50'11.9" E		
Tangent Length:	249.168		

RAVENSHOE ROAD

	STATION	NORTHING	EASTING
Element: Linear			
PI =	9+093.423	4895248.4675	309082.9704
BC =	9+258.609	4895296.7798	309240.9338
Tangent Direction:	N 72°59'38.4" E		
Tangent Length:	165.186		
Element: Linear			
PI =	9+258.609	4895296.7798	309240.9338
PI =	9+655.357	4895412.3971	309620.4619
Tangent Direction:	N 73°03'26.9" E		
Tangent Length:	396.748		
Element: Linear			
PI =	9+655.357	4895412.3971	309620.4619
PI =	9+658.653	4895413.3577	309623.6150
Tangent Direction:	N 73°03'23.3" E		
Tangent Length:	3.296		
Element: Linear			
PI =	9+658.653	4895413.3577	309623.6150
PI =	10+324.347	4895607.3490	310260.4155
Tangent Direction:	N 73°03'26.9" E		
Tangent Length:	665.693		

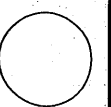
COMMUTER PARKING LOT ENTRANCE

	STATION	NORTHING	EASTING
Element: Linear			
PI =	10+000.000	4894601.7282	309769.0872
BC =	10+072.503	4894622.4539	309838.5647
Tangent Direction:	N 73°23'23.0" E		
Tangent Length:	72.503		
Element: Circular			
BC =	10+072.503	4894622.4539	309838.5647
PI =	10+083.272	4894625.5324	309848.8845
CC =	10+090.057	4894636.1239	309846.9364
EC =	10+090.057	4894636.1239	309846.9364
Radius:	12.000		
Delta:	83°48'42.5" Left		
Degree of Curvature(Arc):	477°27'53.4"		
Length:	17.554		
Tangent:	10.769		
Chord:	16.030		
Middle Ordinate:	3.089		
External:	4.124		
Tangent Direction:	N 73°23'23.0" E		
Radial Direction:	S 16°36'37.0" E		
Chord Direction:	N 31°29'01.8" E		
Radial Direction:	N 79°34'40.5" E		
Tangent Direction:	N 10°25'19.5" W		
Element: Linear			
EC =	10+090.057	4894636.1239	309846.9364
PI =	10+101.589	4894647.4664	309844.8502
Tangent Direction:	N 10°25'19.5" W		
Tangent Length:	11.533		

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00



ALIGNMENT DATA

SHEET
A-8

AECOM



HOLBORN ROAD

	STATION	NORTHING	EASTING
Element: Linear			
PI =	9+697.656	4890984.7455	309059.4003
BC =	10+000.000	4891071.2391	309349.1084
Tangent Direction:	N 73°22'36.4" E		
Tangent Length:	302.344		
Element: Linear			
PI =	10+000.000	4891071.2391	309349.1084
PI =	10+293.853	4891157.0347	309630.1578
Tangent Direction:	N 73°01'27.1" E		
Tangent Length:	293.853		

RAMP S-N/S

	STATION	NORTHING	EASTING
Element: Circular			
BC =	10+000.000	4894172.4994	309232.2809
PI =	10+169.568	4894319.2849	309317.1773
CC =		4893421.5061	310530.7451
CS =	10+337.703	4894443.4140	309432.6994
Radius:		1500.000	
Delta:		12°53'57.5" Right	
Degree of Curvature(Arc):	3°49'11.0"		
Length:		337.703	
Tangent:		169.568	
Chord:		336.990	
Middle Ordinate:		9.494	
External:		9.554	
Tangent Direction:	N 30°02'37.7" E		
Radial Direction:	S 59°57'22.3" E		
Chord Direction:	N 36°29'36.5" E		
Radial Direction:	S 47°03'24.8" E		
Tangent Direction:	N 42°56'35.2" E		
Element: Compound Clothoid			
CS =	10+337.703	4894443.4140	309432.6994
SPI =	10+360.054	4894459.7756	309447.9265
SC =	10+374.722	4894469.8472	309458.6088
Entrance Radius:		1500.000	
Exit Radius:		350.000	
Length:		37.019	
Angle:		3°44'13.4" Right	
Constant:		130.000	
Long Tangent:		22.351	
Short Tangent:		14.680	
Long Chord:		37.012	
Xs:		37.000	
Ys:		0.957	
P:		0.125	
K:		14.188	
Tangent Direction:	N 42°56'35.2" E		
Radial Direction:	S 47°03'24.8" E		
Chord Direction:	N 44°25'28.0" E		
Radial Direction:	S 43°19'11.4" E		
Tangent Direction:	N 46°40'48.6" E		
Element: Circular			
SC =	10+374.722	4894469.8472	309458.6088
PI =	10+445.158	4894518.1717	309509.8520
CC =		4894215.2098	309698.7313
CS =	10+513.738	4894542.9111	309575.8012
Radius:		350.000	
Delta:		22°45'26.3" Right	
Degree of Curvature(Arc):	16°22'12.8"		
Length:		139.017	
Tangent:		70.437	
Chord:		138.105	
Middle Ordinate:		6.879	
External:		7.017	
Tangent Direction:	N 46°40'48.6" E		
Radial Direction:	S 43°19'11.4" E		
Chord Direction:	N 58°03'31.8" E		
Radial Direction:	S 20°33'45.0" E		
Tangent Direction:	N 69°26'15.0" E		
Element: Clothoid			
CS =	10+513.738	4894542.9111	309575.8012
SPI =	10+529.841	4894548.5668	309590.8778
ST =	10+562.024	4894557.7711	309621.7326
Entrance Radius:		350.000	
Exit Radius:		0.000	
Length:		48.286	
Angle:		3°57'08.0" Right	
Constant:		130.000	
Long Tangent:		32.198	
Short Tangent:		16.102	
Long Chord:		48.275	
Xs:		48.263	
Ys:		1.110	
P:		0.278	
K:		24.139	
Tangent Direction:	N 69°26'15.0" E		
Radial Direction:	S 20°33'45.0" E		
Chord Direction:	N 72°04'20.5" E		
Radial Direction:	S 16°36'37.0" E		
Tangent Direction:	N 73°23'23.0" E		
Element: Linear			
ST =	10+562.024	4894557.7711	309621.7326
PI =	10+715.795	4894601.7282	309769.0878
Tangent Direction:	N 73°23'23.0" E		
Tangent Length:		153.771	

RAMP N-S

	STATION	NORTHING	EASTING
Element: Circular			
BC =	10+000.000	4895265.3143	309638.7115
PI =	10+127.019	4895140.2902	309661.1327
CC =		4894735.7552	306685.8201
CS =	10+253.886	4895013.8183	309672.9058
Radius:	3000.000		
Delta:	4°50'55.9" Right		
Degree of Curvature(Arc):	1°54'35.5"		
Length:	253.886		
Tangent:	127.019		
Chord:	253.810		
Middle Ordinate:	2.685		
External:	2.688		
Tangent Direction:	S 10°10'01.6" E		
Radial Direction:	S 79°49'58.4" W		
Chord Direction:	S 7°44'33.6" E		
Radial Direction:	S 84°40'54.3" W		
Tangent Direction:	S 5°19'05.7" E		
Element: Compound Clothoid			
CS =	10+253.886	4895013.8183	309672.9058
SPI =	10+293.650	4894974.2255	309676.5915
SC =	10+315.852	4894951.9621	309675.6683
Entrance Radius:	3000.000		
Exit Radius:	250.000		
Length:	61.967		
Angle:	7°41'33.3" Right		
Constant:	130.000		
Long Tangent:	39.764		
Short Tangent:	22.283		
Long Chord:	61.918		
Xs:	61.848		
Ys:	2.983		
P:	0.586		
K:	28.382		
Tangent Direction:	S 5°19'05.7" E		
Radial Direction:	S 84°40'54.3" W		
Chord Direction:	S 2°33'25.7" E		
Radial Direction:	N 87°37'32.3" W		
Tangent Direction:	S 2°22'27.7" W		
Element: Circular			
SC =	10+315.852	4894951.9621	309675.6683
PI =	10+369.686	4894898.1748	309673.4381
CC =		4894962.3191	309425.8830
CS =	10+421.900	4894850.0725	309649.2676
Radius:	250.000		
Delta:	24°18'15.6" Right		
Degree of Curvature(Arc):	22°55'05.9"		
Length:	106.048		
Tangent:	53.833		
Chord:	105.254		
Middle Ordinate:	5.602		
External:	5.730		
Tangent Direction:	S 2°22'27.6" W		
Radial Direction:	N 87°37'32.4" W		
Chord Direction:	S 14°31'35.5" W		
Radial Direction:	N 63°19'16.7" W		
Tangent Direction:	S 26°40'43.3" W		
Element: Compound Clothoid			
CS =	10+421.900	4894850.0725	309649.2676
SPI =	10+444.306	4894830.0517	309639.2075
SC =	10+485.275	4894796.1788	309616.0188
Entrance Radius:	250.000		
Exit Radius:	4000.000		
Length:	63.375		
Angle:	7°42'58.1" Right		
Constant:	130.000		
Long Tangent:	41.050		
Short Tangent:	22.406		
Long Chord:	63.325		
Xs:	63.253		
Ys:	3.008		
P:	0.627		
K:	29.687		
Tangent Direction:	S 26°40'43.2" W		
Radial Direction:	N 63°19'16.8" W		
Chord Direction:	S 31°40'18.5" W		
Radial Direction:	N 55°36'18.7" W		
Tangent Direction:	S 34°23'41.3" W		
Element: Circular			
SC =	10+485.275	4894796.1788	309616.0188
PI =	10+578.189	4894719.5098	309563.5326
CC =		4897055.7480	306315.3602
EC =	10+671.069	4894645.3605	309507.5432
Radius:	4000.000		
Delta:	2°39'40.7" Right		
Degree of Curvature(Arc):	1°25'56.6"		
Length:	185.794		
Tangent:	92.914		
Chord:	185.777		
Middle Ordinate:	1.079		
External:	1.079		
Tangent Direction:	S 34°23'41.3" W		
Radial Direction:	N 55°36'18.7" W		
Chord Direction:	S 35°43'31.7" W		
Radial Direction:	N 52°56'38.0" W		
Tangent Direction:	S 37°03'22.0" W		
Element: Linear			
EC =	10+671.069	4894645.3605	309507.5432
PI =	10+948.716	4894423.7856	309340.2340
Tangent Direction:	S 37°03'22.0" W		
Tangent Length:	277.647		

WOODBINE AVE.

	STATION	NORTHING	EASTING
Element: Linear			
PI =	9+279.788	4894165.4030	309848.5380
PI =	9+488.098	4894370.2147	309810.4103
Tangent Direction:	N 10°32'43.6" W		
Tangent Length:	208.330		
Element: Linear			
PI =	9+488.098	4894370.2147	309810.4103
PI =	9+768.183	4894645.9413	309761.1955
Tangent Direction:	N 10°07'12.8" W		
Tangent Length:	280.084		
Element: Linear			
PI =	9+768.183	4894645.9413	309761.1955
PI =	9+826.656	4894703.3634	309750.1561
Tangent Direction:	N 10°52'56.4" W		
Tangent Length:	58.474		
Element: Linear			
PI =	9+826.656	4894703.3634	309750.1561
PI =	9+904.694	4894779.8331	309734.5892
Tangent Direction:	N 11°30'23.4" W		
Tangent Length:	78.038		
Element: Linear			
PI =	9+904.694	4894779.8331	309734.5892
PI =	9+968.545	4894842.5584	309722.6543
Tangent Direction:	N 10°46'22.7" W		
Tangent Length:	63.851		
Element: Linear			
PI =	9+968.545	4894842.5584	309722.6543
PI =	10+547.475	4895412.3971	309620.4619
Tangent Direction:	N 10°10'01.6" W		
Tangent Length:	578.930		
Element: Linear			
PI =	10+547.475	4895412.3971	309620.4619
PI =	10+550.771	4895413.3577	309623.6150
Tangent Direction:	N 73°03'26.2" E		
Tangent Length:	3.296		
Element: Linear			
PI =	10+550.771	4895413.3577	309623.6150
PI =	10+569.627	4895431.9173	309620.2866
Tangent Direction:	N 10°10'01.4" W		
Tangent Length:	18.856		
Element: Linear			
PI =	10+569.627	4895431.9173	309620.2866
PI =	10+630.340	4895491.5956	309609.1221
Tangent Direction:	N 10°35'46.7" W		
Tangent Length:	60.714		
Element: Linear			
PI =	10+630.340	4895491.5956	309609.1221
PI =	10+702.797	4895562.6505	309594.9389
Tangent Direction:	N 11°17'18.1" W		
Tangent Length:	72.457		
Element: Linear			
PI =	10+702.797	4895562.6505	309594.9389
PI =	10+775.254	4895633.7060	309580.7558
Tangent Direction:	N 11°17'17.7" W		
Tangent Length:	72.457		
Element: Linear			
PI =	10+775.254	4895633.7060	309580.7558
PI =	10+910.954	4895767.0921	309555.8019
Tangent Direction:	N 10°35'47.0" W		
Tangent Length:	135.700		

INTERIM RAMP S-S

	STATION	NORTHING	EASTING
Element: Linear			
PI =	10+000.000	4894877.1661	309716.4479
BC =	10+014.710	4894874.5695	309701.9690
Tangent Direction:	S 79°49'58.4" W		
Tangent Length:	14.710		
Element: Circular			
BC =	10+014.710	4894874.5695	309701.9690
PI =	10+041.925	4894869.7655	309675.1809
CC =		4894810.5902	309713.4428
EC =	10+066.258	4894847.3082	309659.8071
Radius:	65.000		
Delta:	45°26'17.1" Left		
Degree of Curvature(Arc):	88°08'50.5"		
Length:	51.548		
Tangent:	27.215		
Chord:	50.208		
Middle Ordinate:	5.043		
External:	5.468		
Tangent Direction:	S 79°49'58.4" W		
Radial Direction:	N 10°10'01.6" W		
Chord Direction:	S 57°06'49.9" W		
Radial Direction:	N 55°36'18.7" W		
Tangent Direction:	S 34°23'41.3" W		
Element: Linear			
EC =	10+066.258	4894847.3082	309659.8071
PI =	10+133.184	4894792.0834	309622.0012
Tangent Direction:	S 34°23'41.3" W		
Tangent Length:	66.926		

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00

ALIGNMENT DATA

AECOM



SHEET
A-9

N.T.S.

NOTES

1) ADVANCE NOTIFICATION SIGNS ARE TO BE PLACED A MINIMUM OF 7 DAYS PRIOR TO ROAD CLOSURE.

METRIC

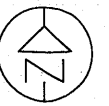
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT

WP 2005-07-00

ADVANCE NOTIFICATION/
WARNING AND DETOUR
SIGNING

AECOM



SHEET
ANS-01

LAKE
SIMCOE

Glenwoods Ave.

Glenwoods Ave. W

Glenwoods Sideroad

65

Warden Ave.

32

Kennedy Rd.

Town of
East
Gwillimbury

3

Boag Road

Cole Road

Warden Ave.

Boag Road

Ravenshoe Road

Woodbine Ave.

Woodbine Ave.

The Queensway S.

ADVANCE NOTIFICATION SIGN
Woodbine Avenue SOUTH
1 Lane Closed Daily
Starts: Month, Day

ADVANCE WARNING SIGN
Woodbine Avenue SOUTH
1 Lane Closed Daily
From XXAM To XXPM

OR

From XXAM To XXPM
TAB

ADVANCE NOTIFICATION SIGN
Ravenshoe Road WEST
1 Lane Closed Daily
Starts: Month, Day

ADVANCE WARNING SIGN
Ravenshoe Road WEST
1 Lane Closed Daily
From XXAM To XXPM

OR

From XXAM To XXPM
TAB

ADVANCE NOTIFICATION SIGN
Ravenshoe Road WEST
1 Lane Closed Daily
Starts: Month, Day

ADVANCE WARNING SIGN
Ravenshoe Road WEST
1 Lane Closed Daily
From XXAM To XXPM

OR

From XXAM To XXPM
TAB

ADVANCE NOTIFICATION SIGN
Woodbine Avenue NORTH
1 Lane Closed Daily
Starts: Month, Day

ADVANCE WARNING SIGN
Woodbine Avenue NORTH
1 Lane Closed Daily
From XXAM To XXPM

OR

From XXAM To XXPM
TAB

ADVANCE NOTIFICATION SIGN
Ravenshoe Road EAST
1 Lane Closed Daily
Starts: Month, Day

ADVANCE WARNING SIGN
Ravenshoe Road EAST
1 Lane Closed Daily
From XXAM To XXPM

OR

From XXAM To XXPM
TAB

ADVANCE NOTIFICATION SIGN
Ravenshoe Road EAST
1 Lane Closed Daily
Starts: Month, Day

ADVANCE WARNING SIGN
Ravenshoe Road EAST
1 Lane Closed Daily
From XXAM To XXPM

OR

From XXAM To XXPM
TAB

Town of
East
Gwillimbury

LANE CLOSURE ON WOODBINE AVENUE AND RAVENSHOE ROAD

N.T.S.

CONT
WP 2005-07-00

ADVANCE NOTIFICATION/
WARNING AND DETOUR
SIGNING

AECOM

LICENSED PROFESSIONAL ENGINEER
A. K-S. LAW
PROVINCE OF ONTARIO

SHEET
ANS-02

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

- NOTES
- 1) ADVANCE NOTIFICATION SIGNS ARE TO BE PLACED TWO WEEKS PRIOR TO ROAD CLOSURE.
 - 2) ALL DETOUR SIGNS AND SIGN OFFSETS ARE TO BE INSTALLED AS PER OTM BOOK 7.

ADVANCE NOTIFICATION SIGN (ANS-1)

BOAG ROAD
TO BE CLOSED
STARTS: Month, Day

ADVANCE WARNING SIGN (AWS-1)

BOAG ROAD
Closed

+
FOLLOW TC-10

OR

FOLLOW TC-10

ADVANCE NOTIFICATION SIGN (ANS-2)

BOAG ROAD
TO BE CLOSED
EAST OF LESLIE
+ STARTS: Month, Day

TAB

ADVANCE WARNING SIGN (AWS-2)

BOAG ROAD
Closed
EAST OF LESLIE

+
FOLLOW TC-10

ADVANCE NOTIFICATION SIGN (ANS-3)

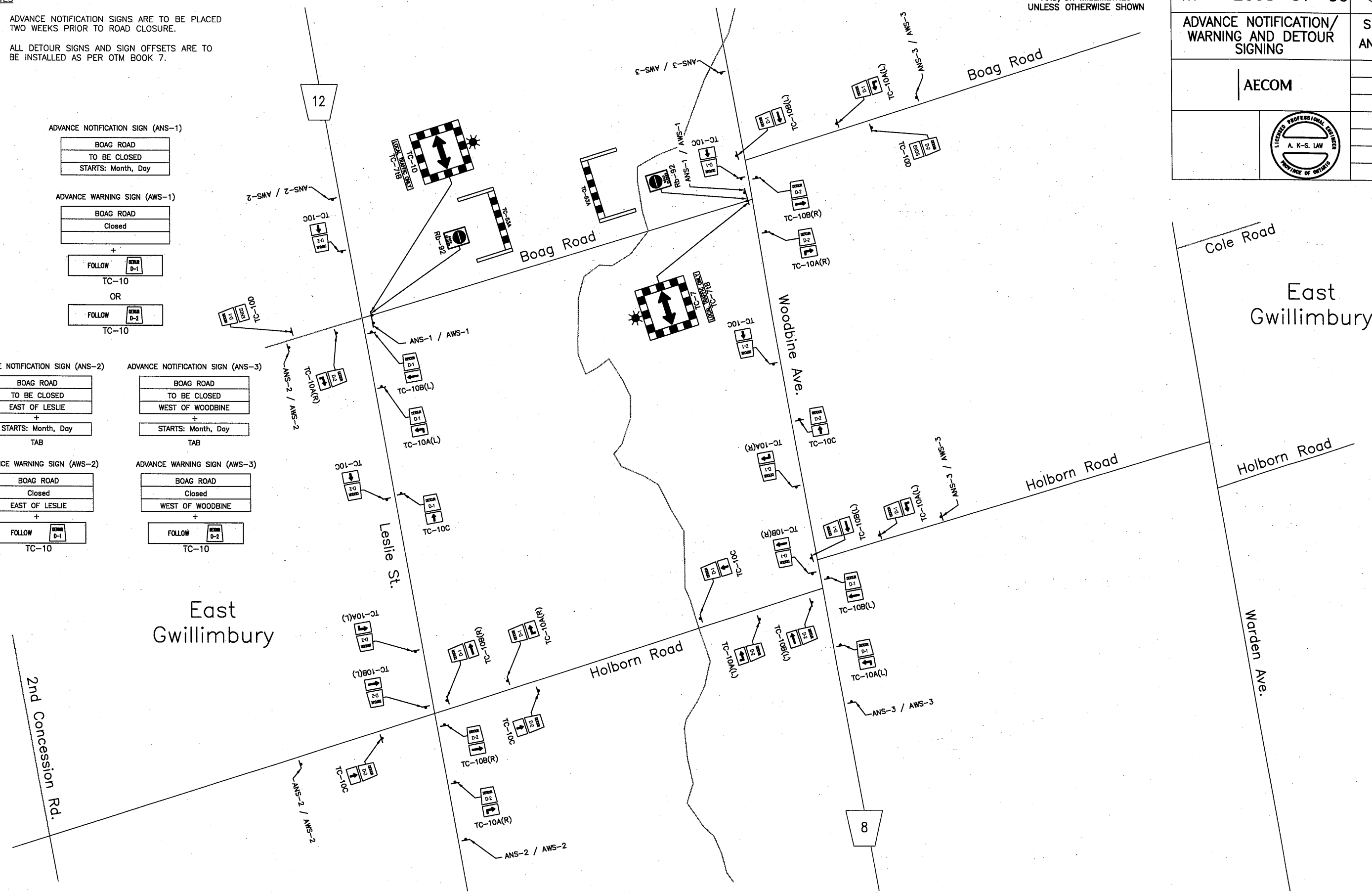
BOAG ROAD
TO BE CLOSED
WEST OF WOODBINE
+ STARTS: Month, Day

TAB

ADVANCE WARNING SIGN (AWS-3)

BOAG ROAD
Closed
WEST OF WOODBINE

+
FOLLOW TC-10



BOAG ROAD TEMPORARY CLOSURE
(FOR STRUCTURES AND ROAD RECONSTRUCTION)

N.T.S.

NOTES

- 1) ADVANCE NOTIFICATION SIGNS ARE TO BE PLACED TWO WEEKS PRIOR TO ROAD CLOSURE.
- 2) ALL DETOUR SIGNS AND SIGN OFFSETS ARE TO BE INSTALLED AS PER OTM BOOK 7.

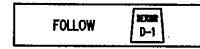
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HOLBORN ROAD
TO BE CLOSED
STARTS: Month, Day

ADVANCE WARNING SIGN (AWS-1)

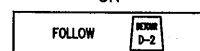
HOLBORN ROAD
Closed

+



TC-10

OR



TC-10

ADVANCE NOTIFICATION SIGN (ANS-2)

HOLBORN ROAD
TO BE CLOSED
EAST OF LESLIE

+

STARTS: Month, Day

TAB

ADVANCE NOTIFICATION SIGN (ANS-3)

HOLBORN ROAD
TO BE CLOSED
WEST OF WOODBINE

+

STARTS: Month, Day

TAB

ADVANCE WARNING SIGN (AWS-2)

HOLBORN ROAD
Closed
EAST OF LESLIE

+

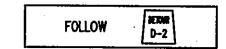


TC-10

ADVANCE WARNING SIGN (AWS-3)

HOLBORN ROAD
Closed
WEST OF WOODBINE

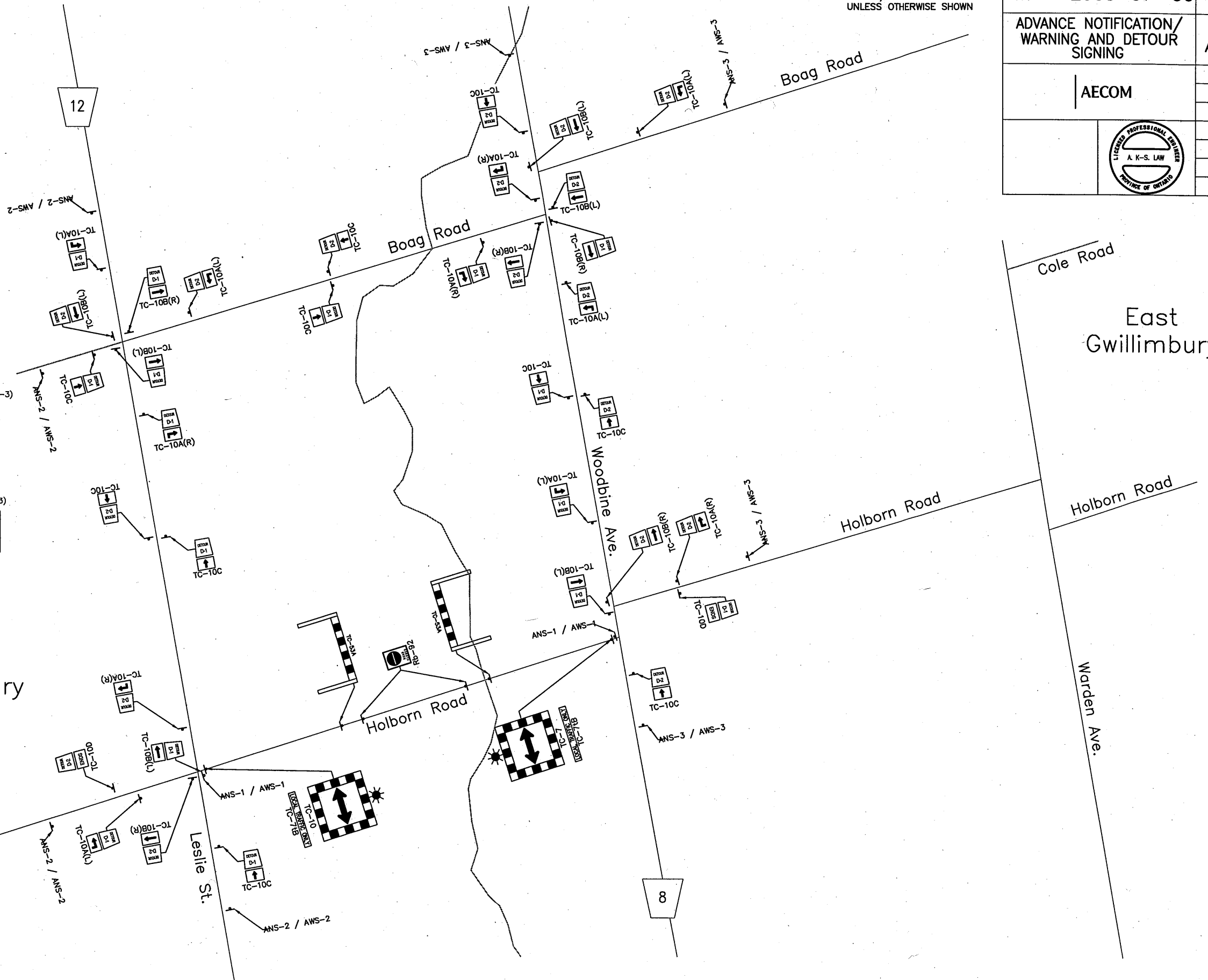
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TC-10

East Gwillimbury

2nd Concession Rd.



HOLBORN ROAD CLOSURE

N.T.S.

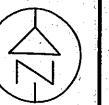
METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

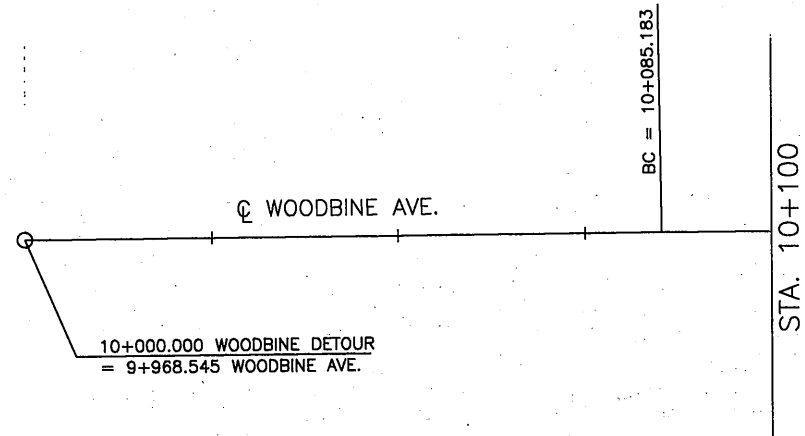
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WP 2005-07-00

ADVANCE NOTIFICATION/
WARNING AND DETOUR
SIGNING

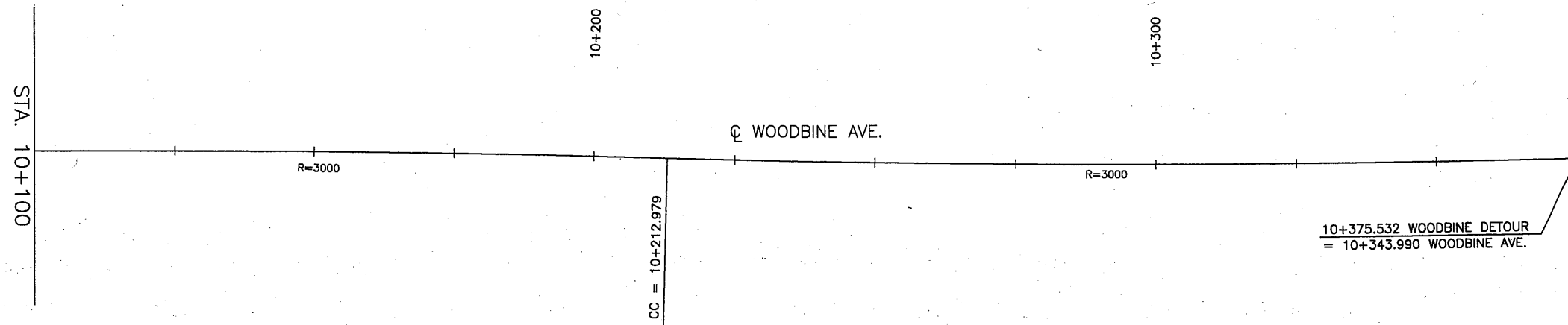
AECOM



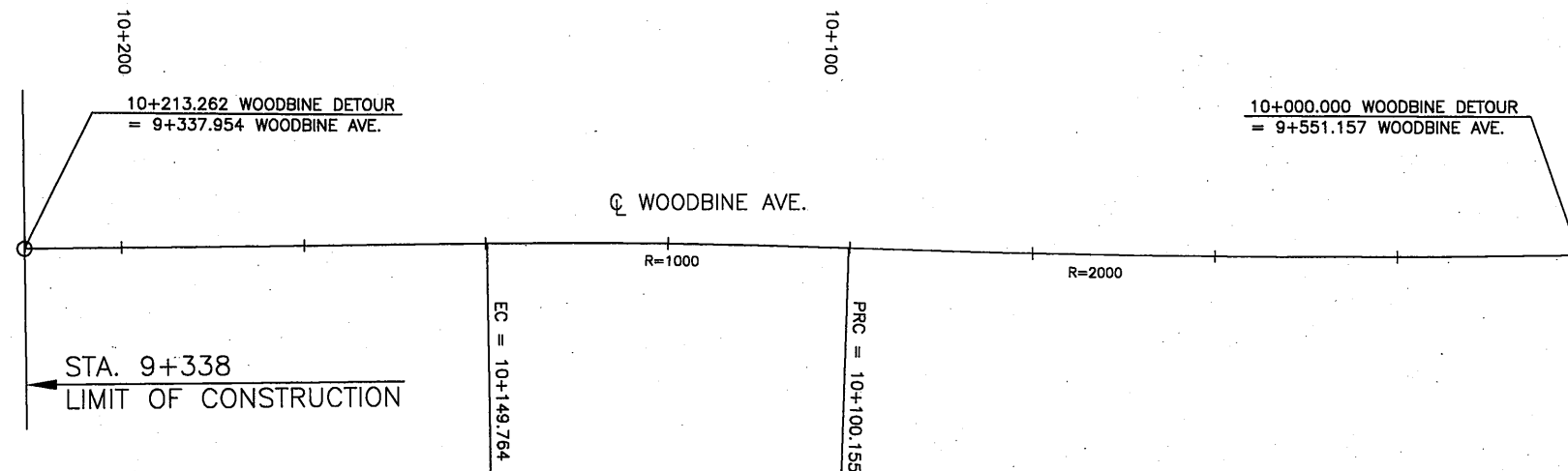
SHEET
ANS-03



STAGE 2 - WOODBINE AVE. ALIGNMENT



STAGE 2 - WOODBINE AVE. ALIGNMENT



STAGE 3 - WOODBINE AVE. ALIGNMENT

Point Type	Station / Distance	Direction	Northing	Easting
PI =	10+000.000		4894841.764	309718.225
BC =	85.183	N 10°10'01.7" W	4894925.610	309703.188
	10+085.183			
	Radius: 3000.000			
	Delta: 2°26'26.6" Right			
	Length: 127.796			
	DOC (Arc): 1°54'35.5"			
	Chord: 127.786			
	Tangent: 63.908			
CC =		Direction: N 8°56'48.4" W		
		Direction: N 10°10'01.7" W		
PRC =	10+212.979	N 79°49'58.3" E = Radial In	4895455.170	312656.080
	Radius: 3000.000	N 82°16'24.9" E = Radial Out	4895051.841	309683.316
	Delta: 3°06'16.3" Left			
	Length: 162.552			
	DOC (Arc): 1°54'35.5"			
	Chord: 162.532			
	Tangent: 81.296			
CC =		Direction: N 9°16'43.2" W		
		Direction: N 7°43'35.1" W		
EC =	10+375.532	N 82°16'24.9" E = Radial In	4894648.513	306710.551
		N 79°10'08.7" E = Radial Out	4895212.247	309657.109

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00

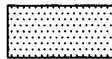

STAGING ALIGNMENT

SHEET
STG-01

AECOM



SCALE
2.5M 0 5M
Horizontal

 UNDER CONSTRUCTION
 COMPLETE CONSTRUCTION IN PREVIOUS STAGE

METRIC

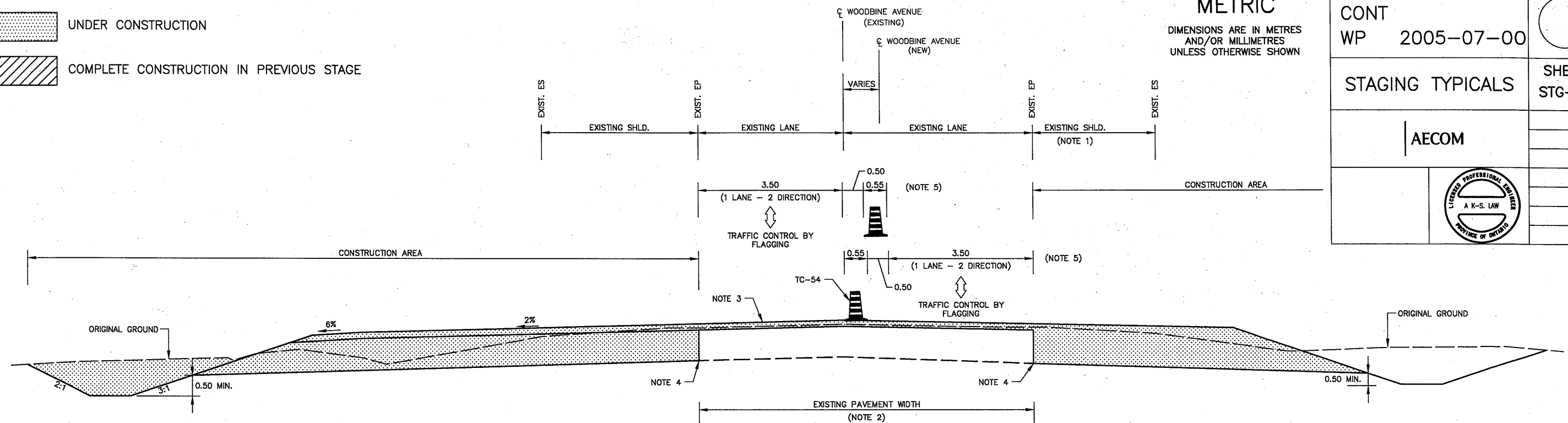
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00

STAGING TYPICALS

SHEET
STG-02

AECOM

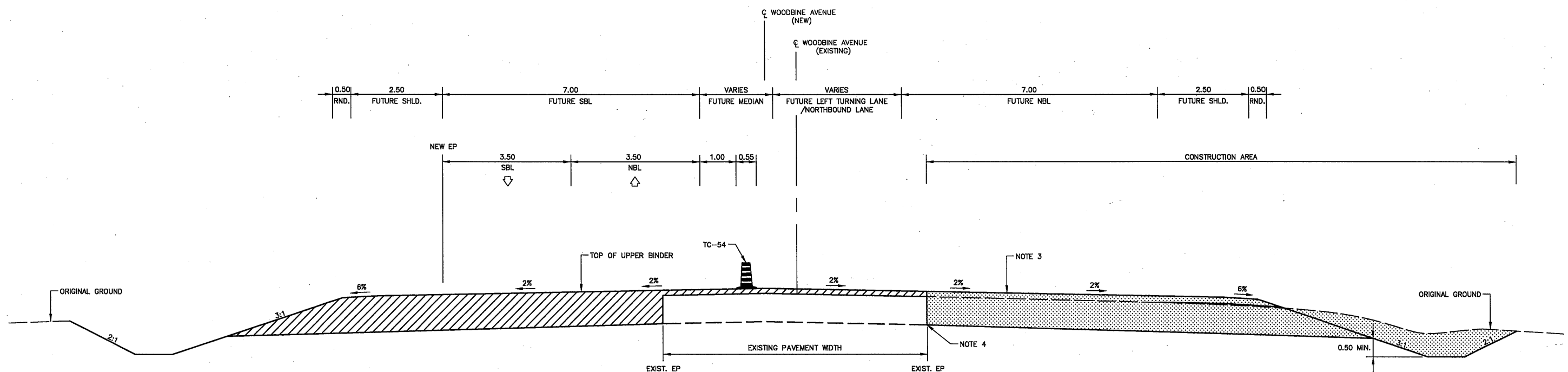


STAGE 1 - WOODBINE AVENUE

STA. 9+338 TO STA. 9+488 RT (WOODBINE AVENUE)
STA. 9+338 TO STA. 10+250 LT (WOODBINE AVENUE)

NOTES

- EXISTING PAVED SHOULDERS WHERE INDICATED ON PLAN.
- MILL 40mm OF EXISTING PAVEMENT, FULL WIDTH.
- COMPLETE TO TOP OF UPPER BINDER COURSE.
- BOTTOM OF NEW GRANULAR TO MATCH EXISTING SUBGRADE TO PROVIDE POSITIVE DRAINAGE.
- RIGHT SIDE AND LEFT SIDE WIDENING ARE CONSTRUCTED UNSIMULTANEOUSLY.



STAGE 2 - WOODBINE AVENUE (SOUTH OF RAVENSHOE ROAD)

STA. 9+488 TO STA. 10+128

N.T.S.

UNDER CONSTRUCTION
COMPLETE CONSTRUCTION IN PREVIOUS STAGE

METRIC

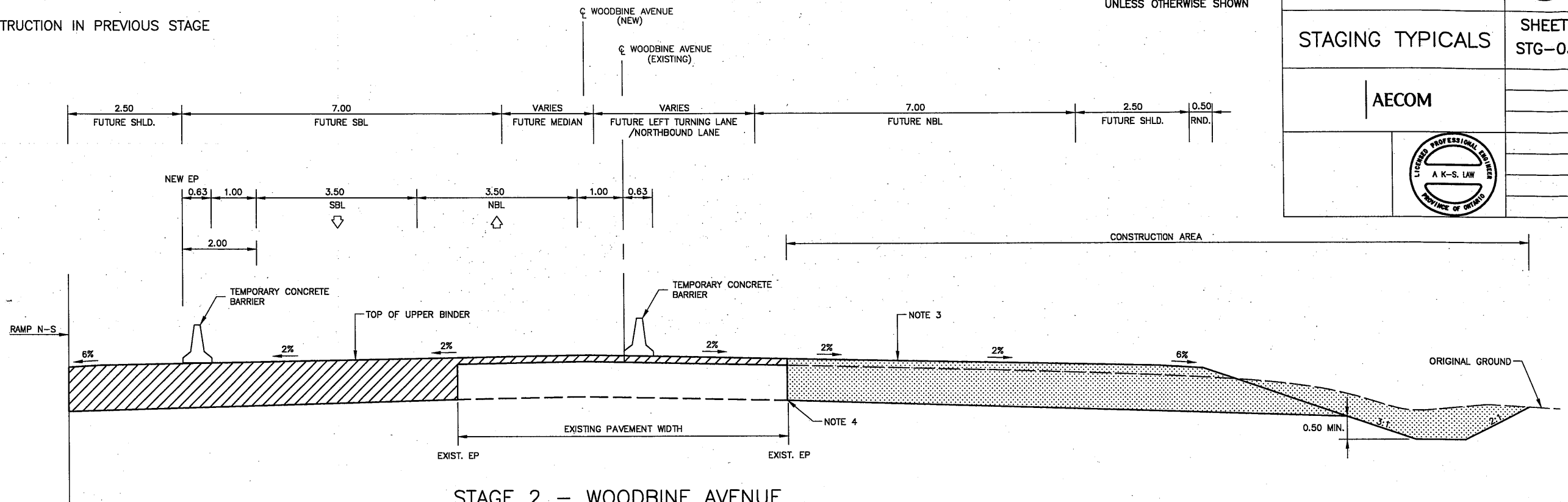
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00

STAGING TYPICALS

SHEET
STG-03

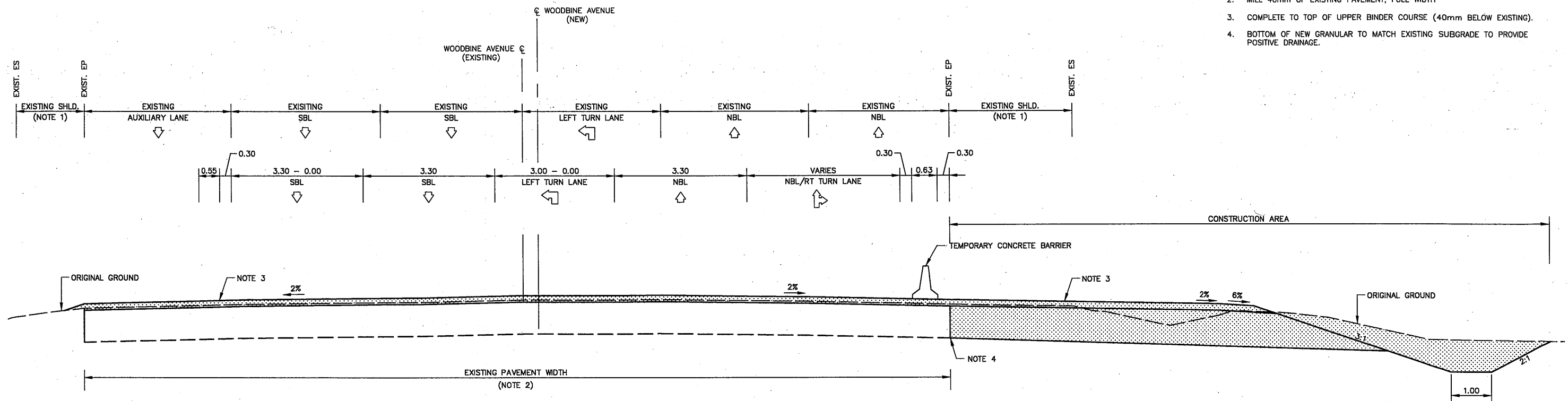
AECOM



STAGE 2 - WOODBINE AVENUE
(SOUTH OF RAVENSHOE ROAD)
STA. 10+128 TO STA. 10+250

NOTES

1. EXISTING PAVED SHOULDER WHERE INDICATED ON PLAN.
2. MILL 40mm OF EXISTING PAVEMENT, FULL WIDTH
3. COMPLETE TO TOP OF UPPER BINDER COURSE (40mm BELOW EXISTING).
4. BOTTOM OF NEW GRANULAR TO MATCH EXISTING SUBGRADE TO PROVIDE POSITIVE DRAINAGE.



STAGE 2 - WOODBINE AVENUE
(SOUTH OF RAVENSHOE ROAD)
STA. 10+250 TO STA. 10+547

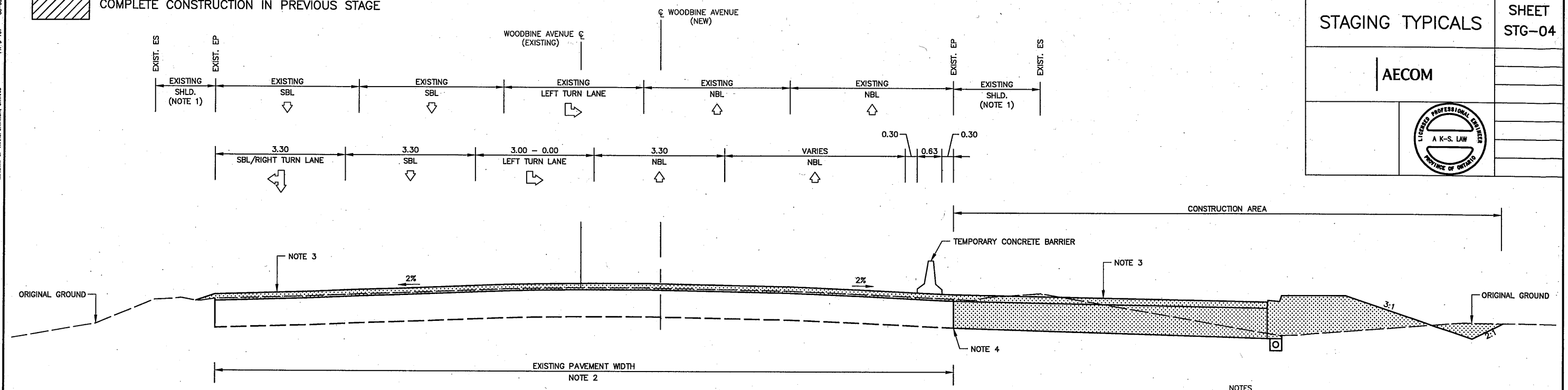
N.T.S.

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

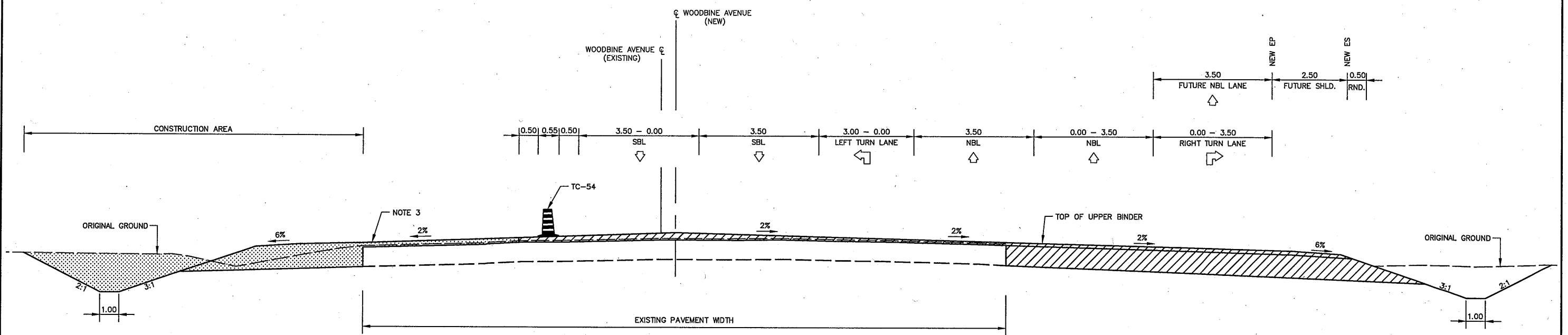
METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT WP 2005-07-00	
STAGING TYPICALS	
AECOM	SHEET STG-04

UNDER CONSTRUCTION
 COMPLETE CONSTRUCTION IN PREVIOUS STAGE



- NOTES
- EXISTING PAVED SHOULDERS WHERE INDICATED ON PLAN.
 - MILL 40mm OF EXISTING PAVEMENT, FULL WIDTH. NO MILLING REQUIRED BETWEEN STA. 10+605 AND 10+675 ON WOODBINE AVENUE.
 - COMPLETE TO TOP OF UPPER BINDER (40mm BELOW FINAL GRADE).
 - BOTTOM OF NEW GRANULAR TO MATCH EXISTING SUBGRADE TO PROVIDE POSITIVE DRAINAGE.



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SAVE DATE: 9/15/2010 4:32 PM
PLOT DATE: 9/28/2010 4:20 PM
SAVE BY: mazzaferron

N.T.S.

UNDER CONSTRUCTION
COMPLETE CONSTRUCTION IN PREVIOUS STAGE

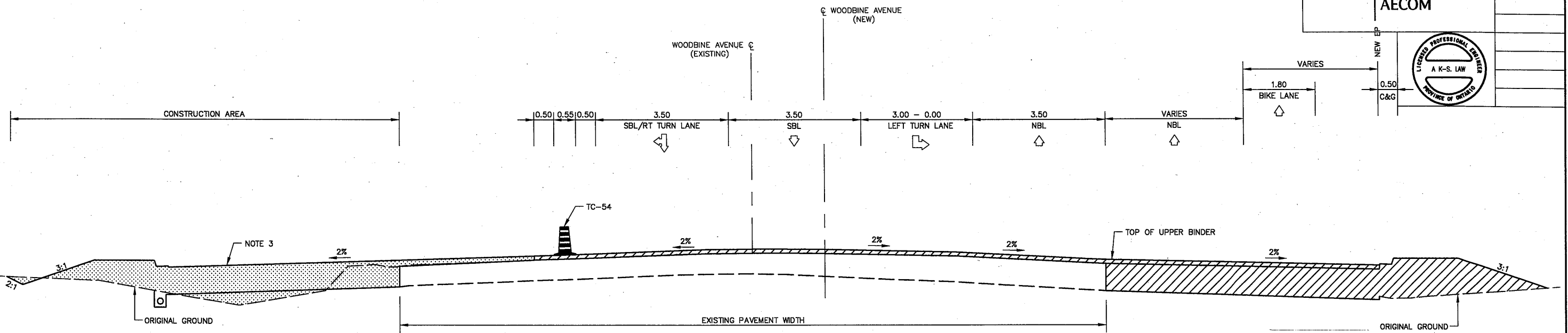
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AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00

STAGING TYPICALS

SHEET
STG-05

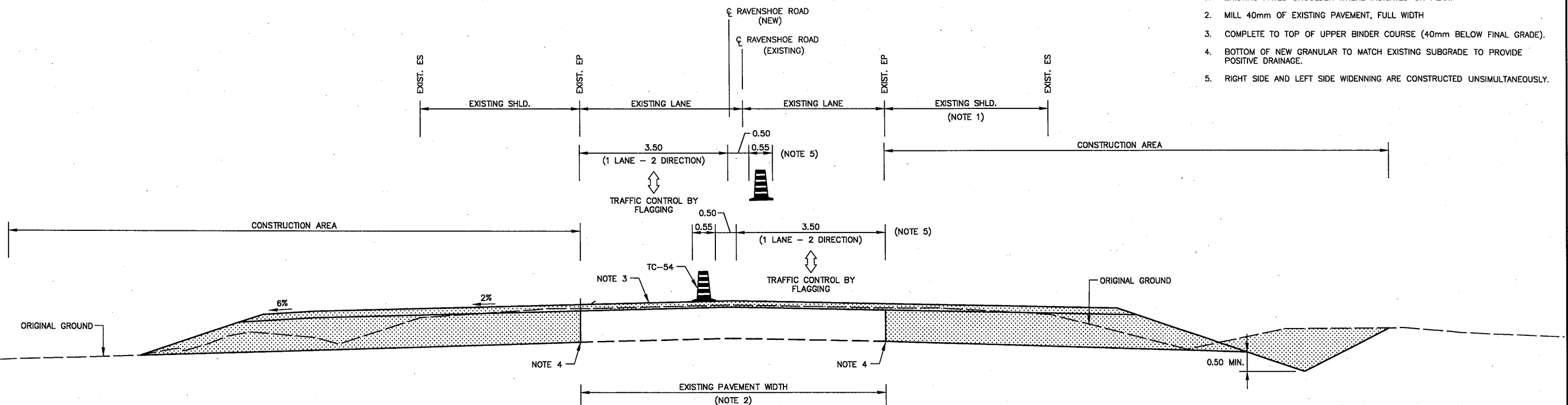
AECOM



STAGE 3 - WOODBINE AVENUE
(NORTH OF RAVENSHOE ROAD)
STA. 10+551 TO STA. 10+790

NOTES

1. EXISTING PAVED SHOULDER WHERE INDICATED ON PLAN.
2. MILL 40mm OF EXISTING PAVEMENT, FULL WIDTH
3. COMPLETE TO TOP OF UPPER BINDER COURSE (40mm BELOW FINAL GRADE).
4. BOTTOM OF NEW GRANULAR TO MATCH EXISTING SUBGRADE TO PROVIDE POSITIVE DRAINAGE.
5. RIGHT SIDE AND LEFT SIDE WIDENING ARE CONSTRUCTED UNSIMULTANEOUSLY.





STAGE 1 - RAVENSHOE ROAD

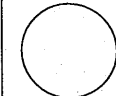

STA. 9+251 TO STA. 9+445 LT (RAVENSHOE ROAD)
STA. 9+251 TO STA. 9+515 RT (RAVENSHOE ROAD)

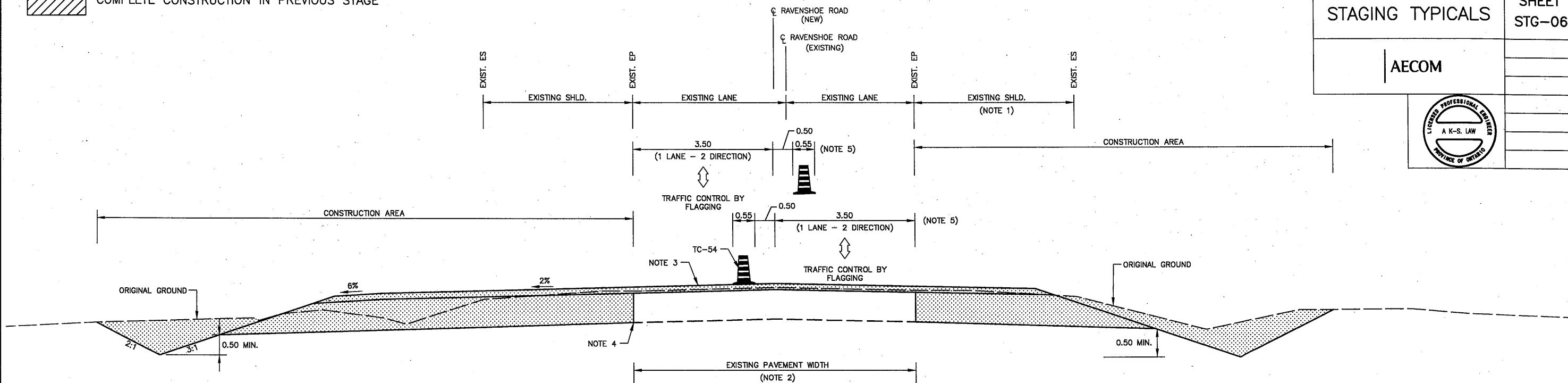
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PLOT DATE: 10/1/2010 11:41 AM
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707
88-05

 UNDER CONSTRUCTION
 COMPLETE CONSTRUCTION IN PREVIOUS STAGE

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT WP 2005-07-00	
STAGING TYPICALS	SHEET STG-06
AECOM	
	



STAGE 1 – RAVENSHOE ROAD
STA. 9+863 TO STA. 10+115 LT/RT (RAVENSHOE ROAD)

- NOTES
- EXISTING PAVED SHOULDER WHERE INDICATED ON PLAN.
 - MILL 40mm OF EXISTING PAVEMENT, FULL WIDTH
 - COMPLETE TO TOP OF UPPER BINDER COURSE (40mm BELOW FINAL GRADE).
 - BOTTOM OF NEW GRANULAR TO MATCH EXISTING SUBGRADE TO PROVIDE POSITIVE DRAINAGE.
 - RIGHT SIDE AND LEFT SIDE WIDENNING ARE CONSTRUCTED UNSIMULTANEOUSLY.

N.T.S.

UNDER CONSTRUCTION

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

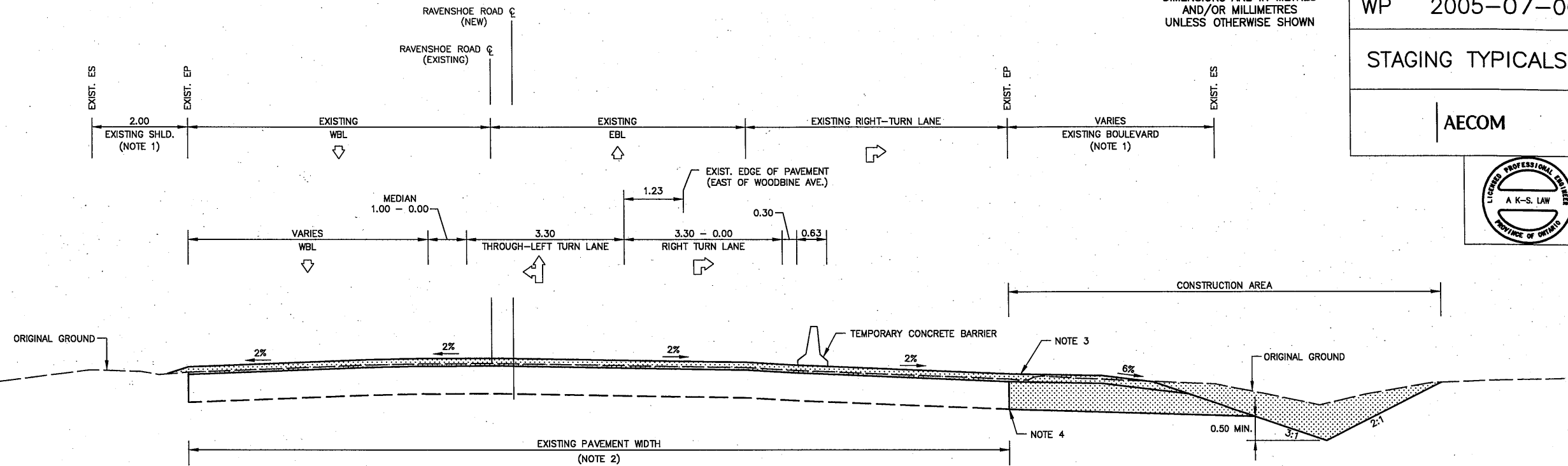
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WP 2005-07-00

STAGING TYPICALS

AECOM



SHEET
STG-07

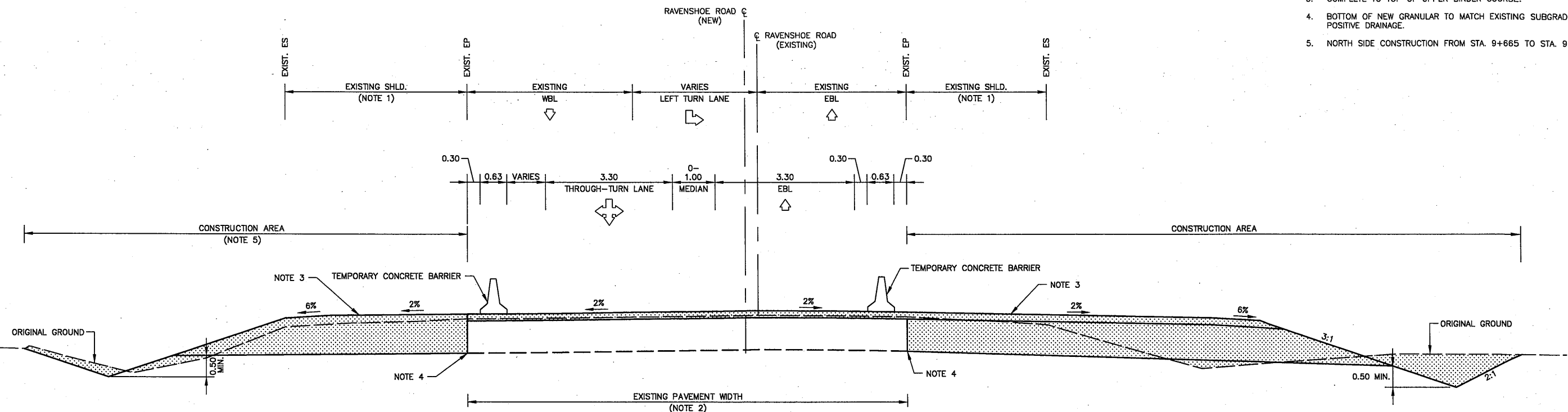


**STAGE 2 - RAVENSHOE ROAD
(WEST OF WOODBINE AVENUE)**

STA. 9+515 TO STA. 9+634

NOTES

1. EXISTING PAVED SHOULDERS WHERE INDICATED ON PLAN.
2. MILL 40mm OF EXISTING PAVEMENT, FULL WIDTH
3. COMPLETE TO TOP OF UPPER BINDER COURSE.
4. BOTTOM OF NEW GRANULAR TO MATCH EXISTING SUBGRADE TO PROVIDE POSITIVE DRAINAGE.
5. NORTH SIDE CONSTRUCTION FROM STA. 9+665 TO STA. 9+755.



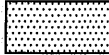

**STAGE 2 - RAVENSHOE ROAD
(EAST OF WOODBINE AVENUE)**

STA. 9+680 TO STA. 9+863

N.T.S.

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 8B-05

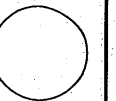
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PLOT DATE: 9/28/2010 4:21 PM
SAVE DATE: 9/15/2010 4:31 PM

 UNDER CONSTRUCTION
 COMPLETE CONSTRUCTION IN PREVIOUS STAGE

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

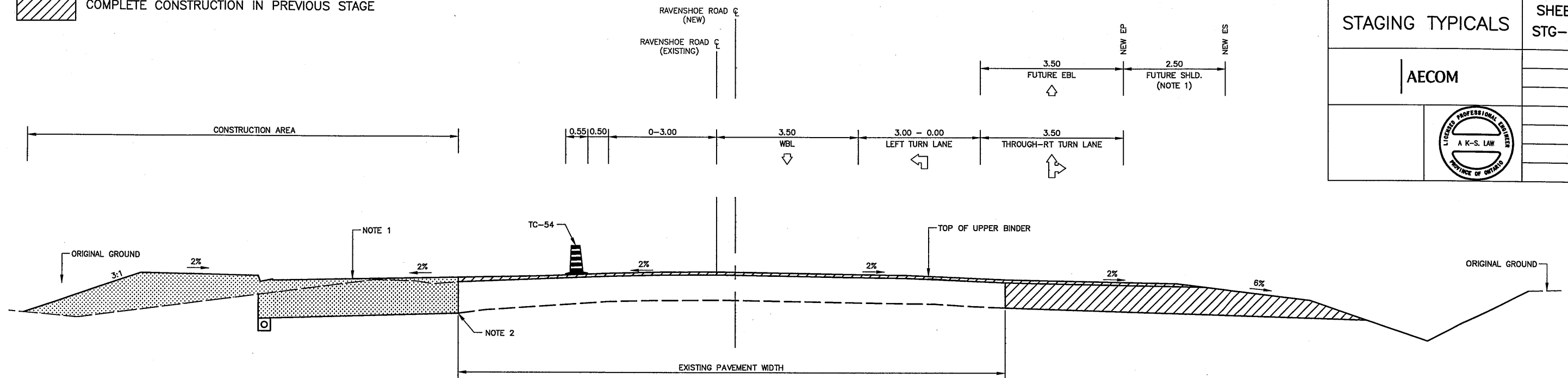
CONT
WP 2005-07-00



STAGING TYPICALS

SHEET
STG-08

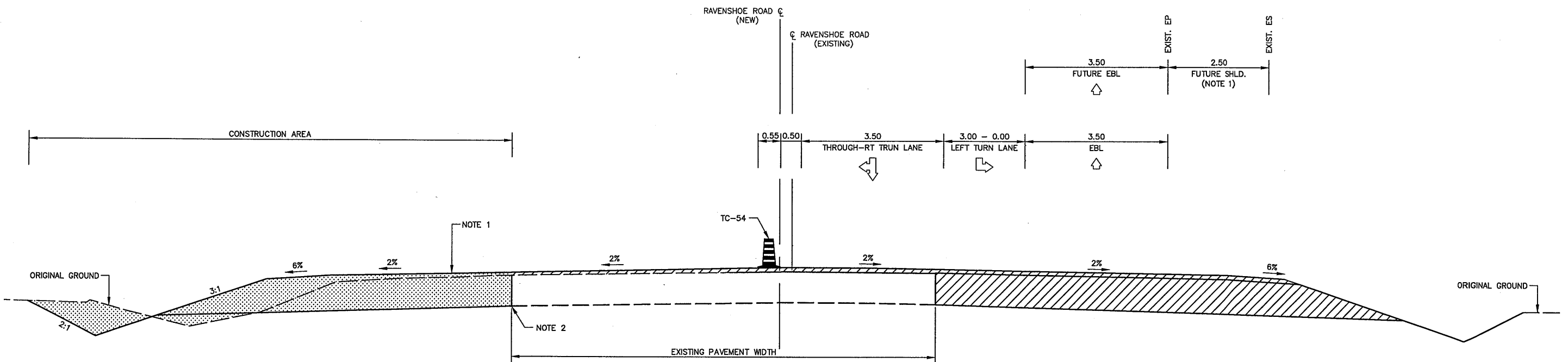
AECOM



**STAGE 3 - RAVENSHOE ROAD
(WEST OF WOODBINE AVENUE)**
STA. 9+445 TO STA. 9+655

NOTES

1. COMPLETE TO TOP OF UPPER BINDER COURSE.
2. BOTTOM OF NEW GRANULAR TO MATCH EXISTING SUBGRADE TO PROVIDE POSITIVE DRAINAGE.



**STAGE 3 - RAVENSHOE ROAD
(EAST OF WOODBINE AVENUE)**
STA. 9+755 TO STA. 9+864

N.T.S.

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 DRAWING	Date	1994 04 01	Rev
LEGEND PAVEMENT MARKINGS	Issue Date	WP	
	Issued By	MTOD - 101.070	

GENERAL NOTES: (APPLY TO ALL STAGES)

- A. ALL TRAFFIC CONTROL AND SIGNS SHALL BE IN CONFORMANCE WITH CURRENT OTM BOOK 7 TEMPORARY CONDITIONS.
- B. ALL CULVERTS SHOWN ON STAGING DRAWINGS ARE PROPOSED.

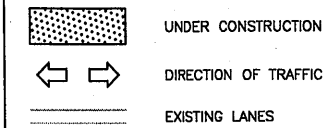
SUGGESTED CONSTRUCTION SEQUENCE

STAGE	CONSTRUCTION	TRAFFIC
STAGE 1	<p>COMPLETE ROADWAY WIDENING AND PAVEMENT REHABILITATION ON WOODBINE AVENUE AND RAVENSHOE ROAD (SEE PLANS) TO TOP OF UPPER BINDER COURSE. INSTALL ALL PROPOSED CULVERT CROSSINGS ON WOODBINE AVENUE AT THE BEGINNING OF STAGE 1 FOR POSITIVE DRAINAGE.</p> <p>REMOVE EXISTING W-S CHANNELIZED ISLAND ON RAVENSHOE ROAD/WOODBINE AVENUE. REINSTATE WITH TEMPORARY ASPHALT.</p> <p>INSTALL AND OPERATE TEMPORARY TRAFFIC SIGNAL CONTROL AT RAVENSHOE ROAD INTERSECTION.</p>	<p>TRAFFIC ON EXISTING LANES.</p> <p>REDUCE WOODBINE AVENUE AND RAVENSHOE ROAD TO A SINGLE LANE, IN EACH DIRECTION WITH TRAFFIC CONTROL FLAGGING IN OFF PEAK HOURS.</p> <p>IMPLEMENT TEMPORARY LANE REDUCTIONS ON WOODBINE AVENUE AND RAVENSHOE ROAD, IN OFF PEAK HOURS.</p> <p>REINSTATE TRAFFIC ON EXISTING LANE CONFIGURATION AT THE END OF EACH WORKING DAY.</p> <p>PLACE TRAFFIC ON STAGE 2 LANE CONFIGURATION.</p>
STAGE 2	<p>COMPLETE ROADWAY WIDENING AND PAVEMENT REHABILITATION ON BOTH SIDES OF WOODBINE AVENUE AND RAVENSHOE ROAD TO TOP OF UPPER BINDER.</p> <p>CONSTRUCT COMMUTER PARKING LOT TO SUBGRADE LEVEL ONLY.</p>	<p>INSTALL AND OPERATE TEMPORARY TRAFFIC SIGNAL CONTROL AT RAVENSHOE ROAD INTERSECTION PRIOR TO TRAFFIC SHIFT TO STAGE 2 LANE CONFIGURATION.</p>

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

LEGEND

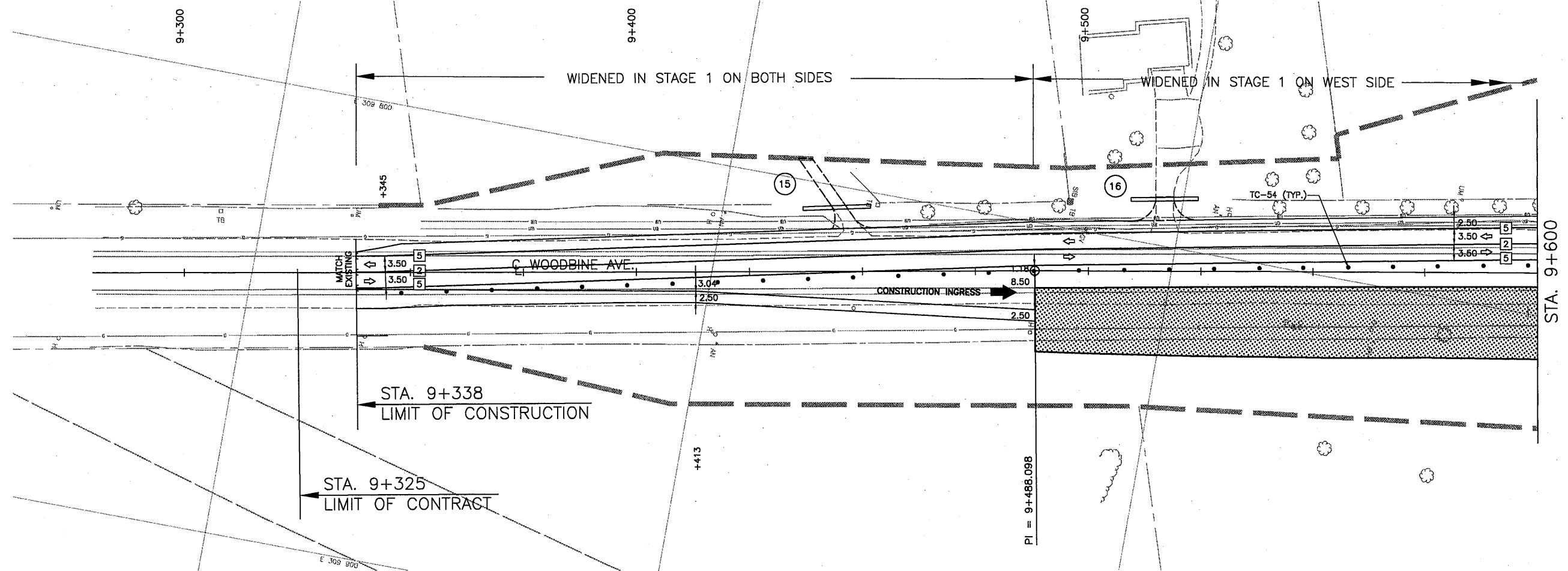


CONT
WP 2005-07-00

STAGE 2
WOODBINE AVENUE

SHEET
STG-09

AECOM

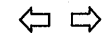


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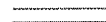
LEGEND



UNDER CONSTRUCTION



DIRECTION OF TRAFFIC



EXISTING LANES

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT

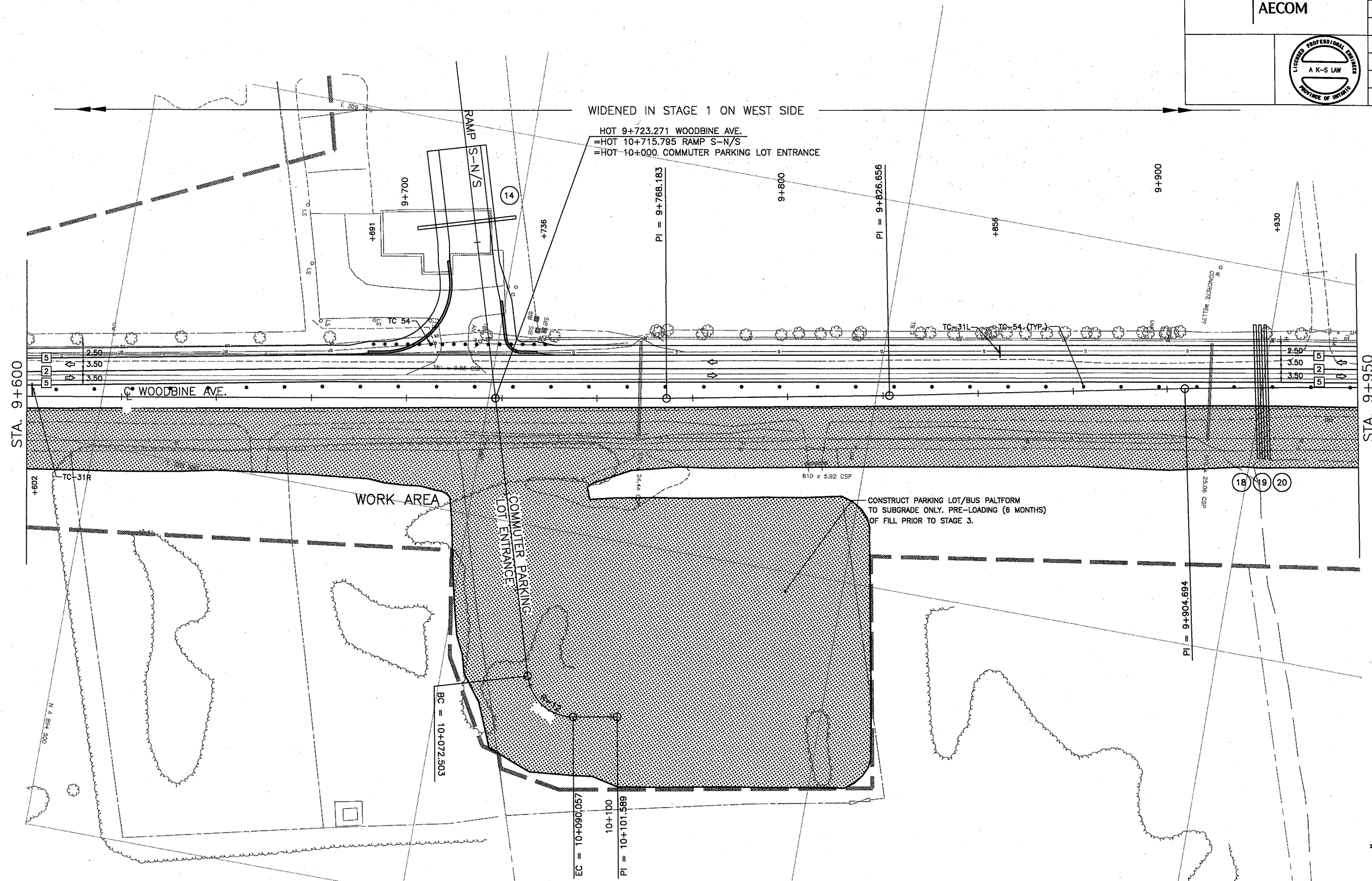
WP 2005-07-00

STAGE 2
WOODBINE AVENUE

AECOM



SHEET
STG-10



LEGEND

- UNDER CONSTRUCTION
- DIRECTION OF TRAFFIC
- EXISTING LANES

NOTES:

- WOODBINE AVE. DETOUR ALIGNMENT DATA IS ON SHEET XX.

METRIC

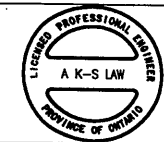
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AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

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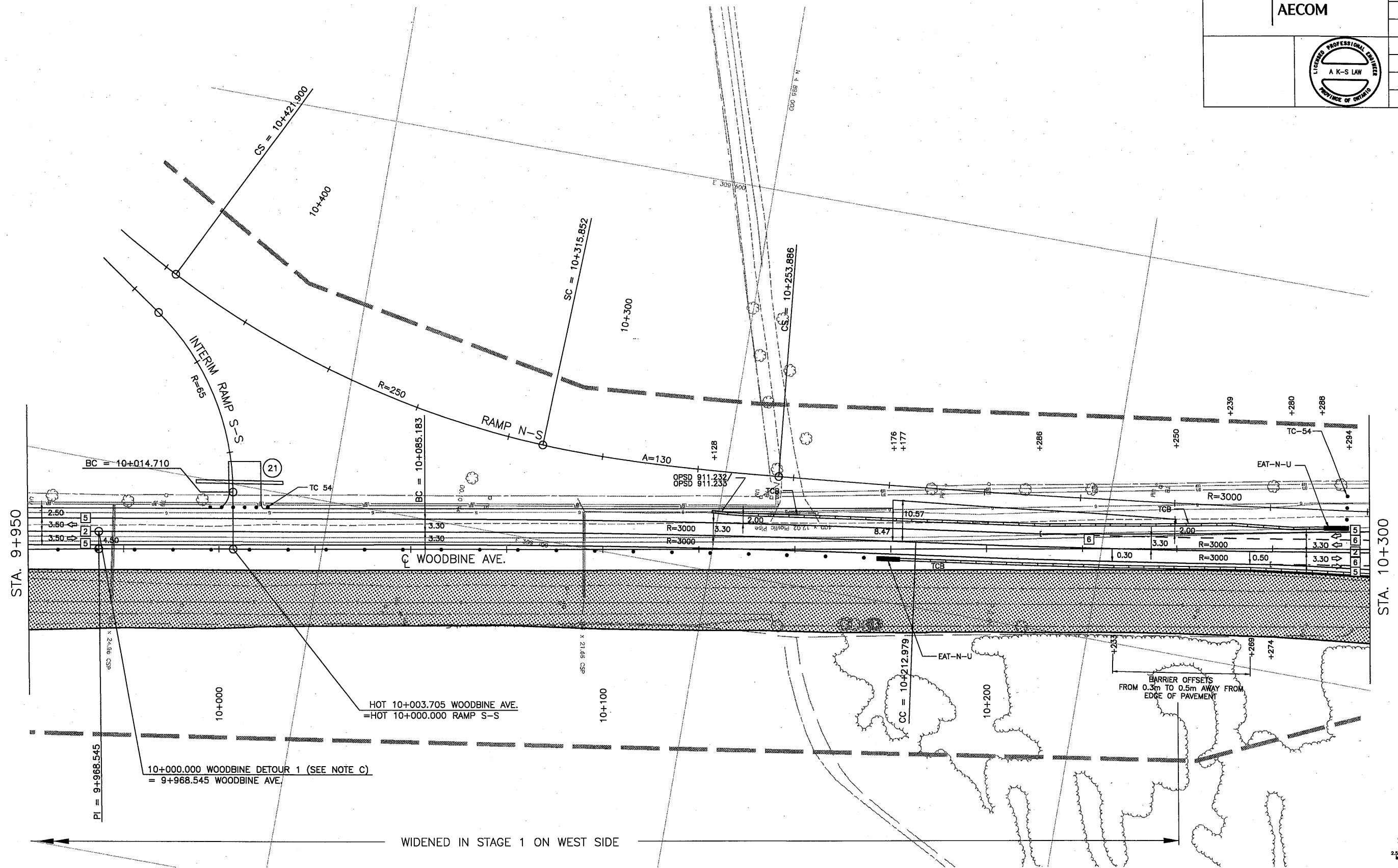
WP 2005-07-00

STAGE 2
WOODBINE AVENUE

AECOM

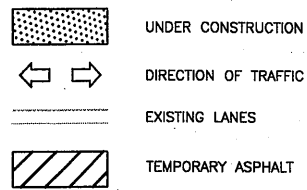


SHEET
STG-11



SCALE
2.5m 0 5m
Horizontal

LEGEND



NOTES:

1. FOR WIDENING WORK AREA AT THE NE, SW AND SE CORNERS OF THE INTERSECTION NOT PROTECTED BY TCB, NEW ROAD GRADE MUST BE BROUGHT UP TO MATCH THE ADJACENT PAVEMENT AT END OF EACH DAYS WORK TO PREVENT POTENTIAL PAVEMENT DROP OFF AFTER HOURS.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT

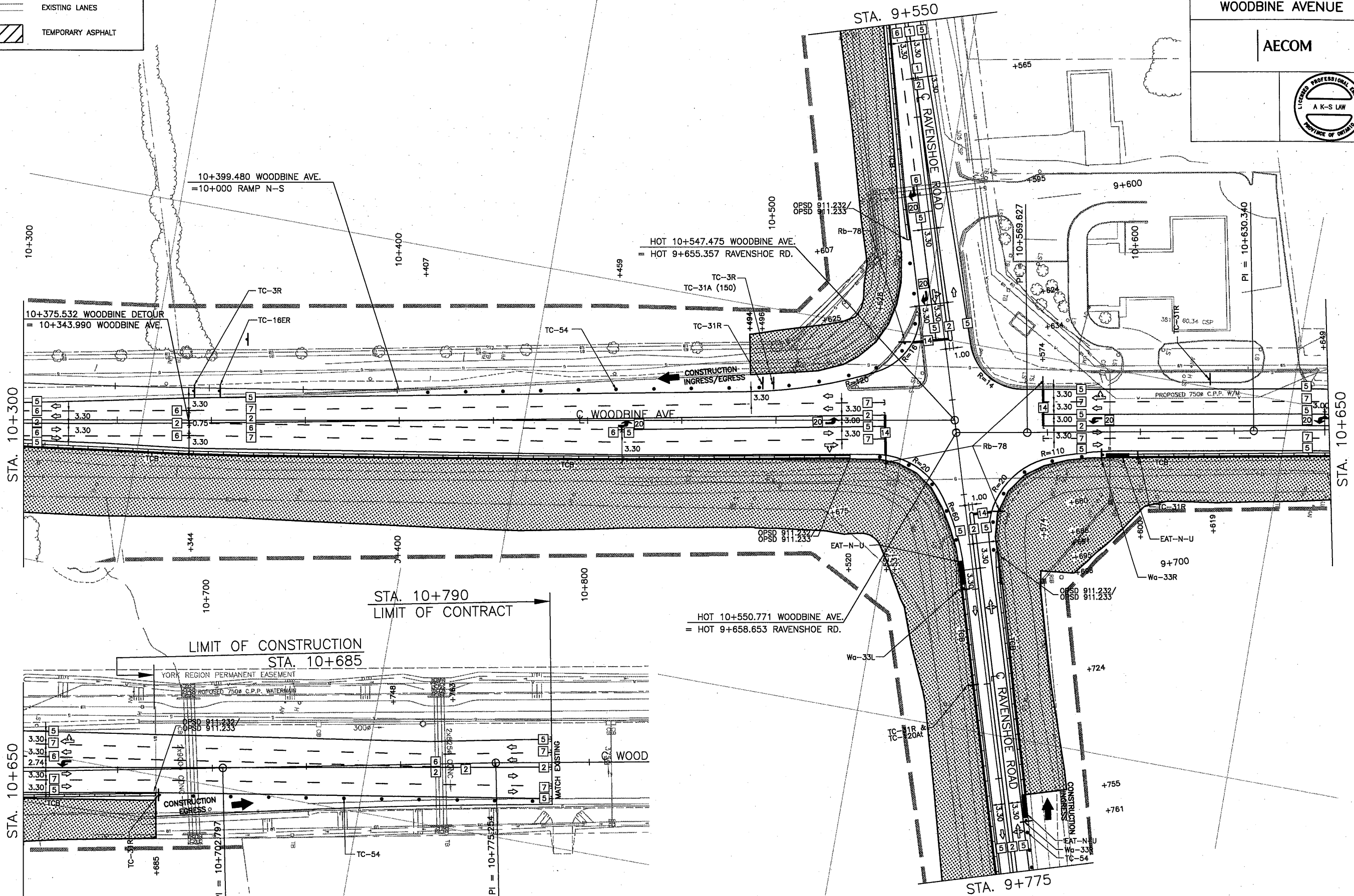
WP 2005-07-00

STAGE 2
WOODBINE AVENUE

AECOM

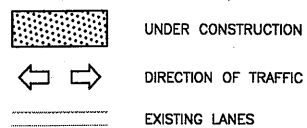


SHEET
STG-12



SCALE
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Horizontal

LEGEND



NOTES:

1. RAVENSHOE ROAD DETOUR ALIGNMENT DATA IS ON SHEET XX.

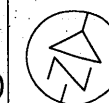
METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00

STAGE 2
RAVENSHOE ROAD

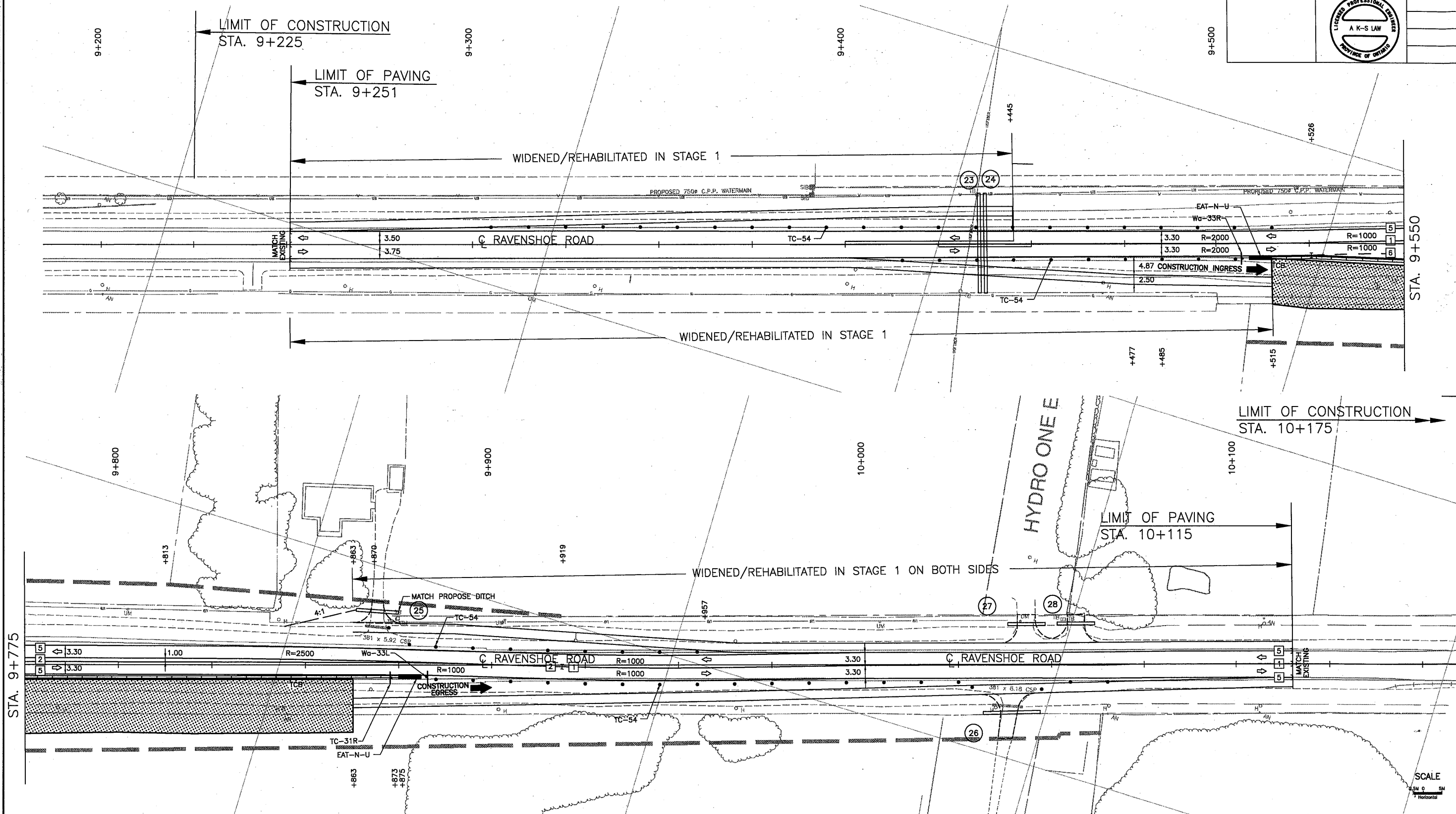
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SHEET
STG-13

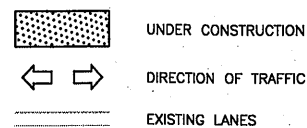
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

DRAWING NAME: 2538-189-00-CT-STAGING-13.dwg
PLOT DATE: 9/28/2010 4:28 PM
SAVE DATE: 8/16/2010 3:29 PM
PLOT BY: mazzaferron



SCALE
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Horizontal

LEGEND



GENERAL NOTES: (APPLY TO ALL STAGES)

- ALL TRAFFIC CONTROL AND SIGNS SHALL BE IN CONFORMANCE WITH CURRENT OTM BOOK 7 TEMPORARY CONDITIONS.
- ALL CULVERTS SHOWN ON STAGING DRAWINGS ARE PROPOSED.

NOTES:

- WOODBINE AVE. DETOUR ALIGNMENT DATA IS ON SHEET XX.

SUGGESTED CONSTRUCTION SEQUENCE

STAGE	CONSTRUCTION	TRAFFIC
STAGE 3	<p>RELOCATE TEMPORARY TRAFFIC SIGNAL CONTROLS AS REQUIRED TO STAGE 3 CONFIGURATION.</p> <p>COMPLETE ROADWAY WIDENING TO TOP OF UPPER BINDER ON WEST SIDE OF WOODBINE AVENUE AND NORTH SIDE OF RAVENSHOE ROAD.</p> <p>AFTER MINIMUM 3 MONTHS PRE-LOADING IN COMMUTER PARKING LOT, INSTALL SEWER PIPES AND DRAINAGE STRUCTURES.</p> <p>INSTALL BUS SHELTER, ILLUMINATION, CONCRETE AND ASPHALT PAVEMENT TO PARKING LOT AND ENTRANCE DRIVEWAY. INSTALL GO TRANSIT PYLON SIGN.</p>	<p>TRAFFIC ON STAGE 2 LANE CONFIGURATION.</p> <p>IMPLEMENT TEMPORARY LANE REDUCTIONS ON WOODBINE AVENUE AND RAVENSHOE ROAD, AND FLAGGING IN OFF PEAK HOURS.</p> <p>PLACE TRAFFIC ON STAGE 3 LANE CONFIGURATION.</p>

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT

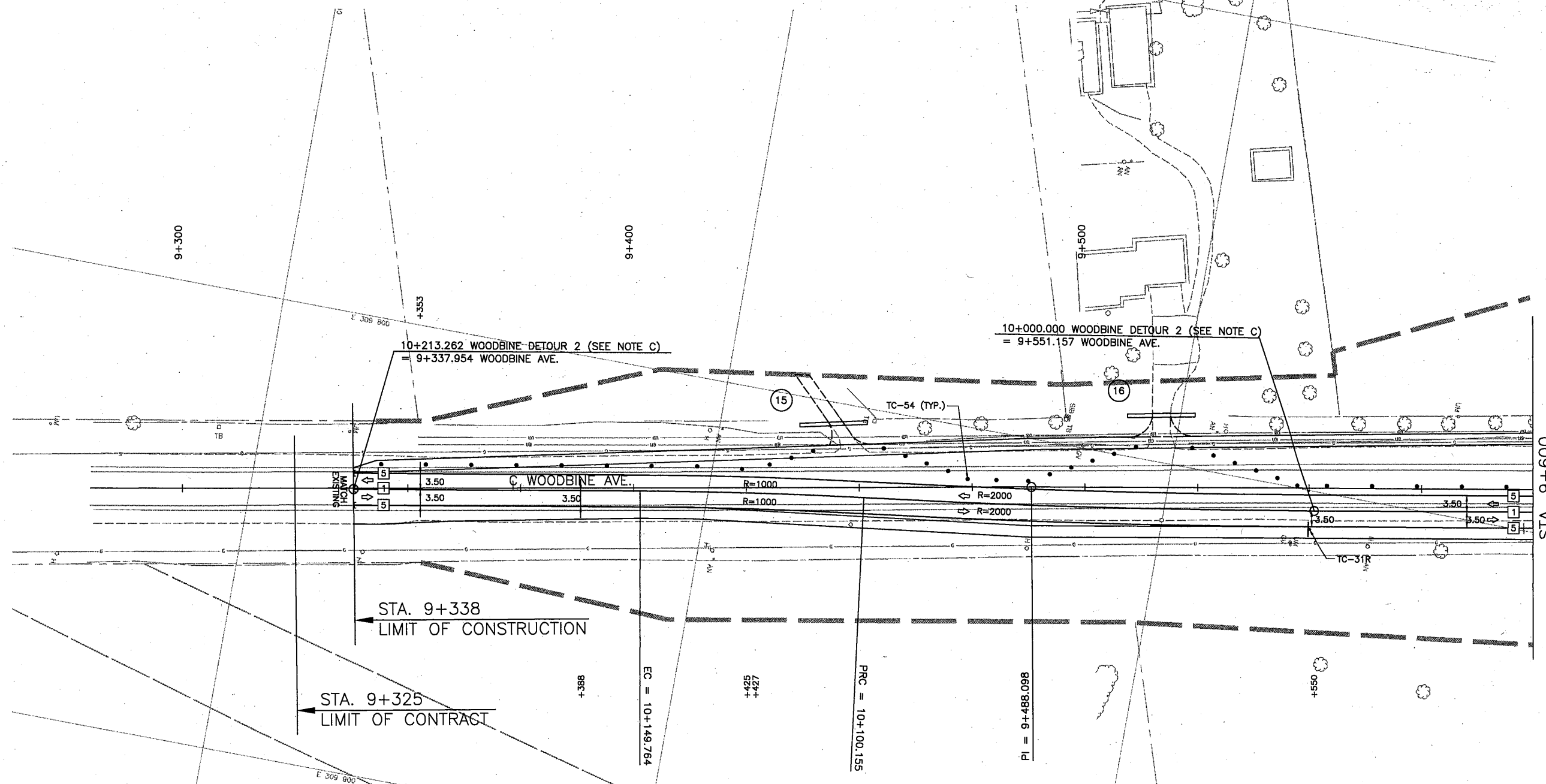
WP 2005-07-00

STAGE 3
WOODBINE AVENUE

AECOM



SHEET
STG-14






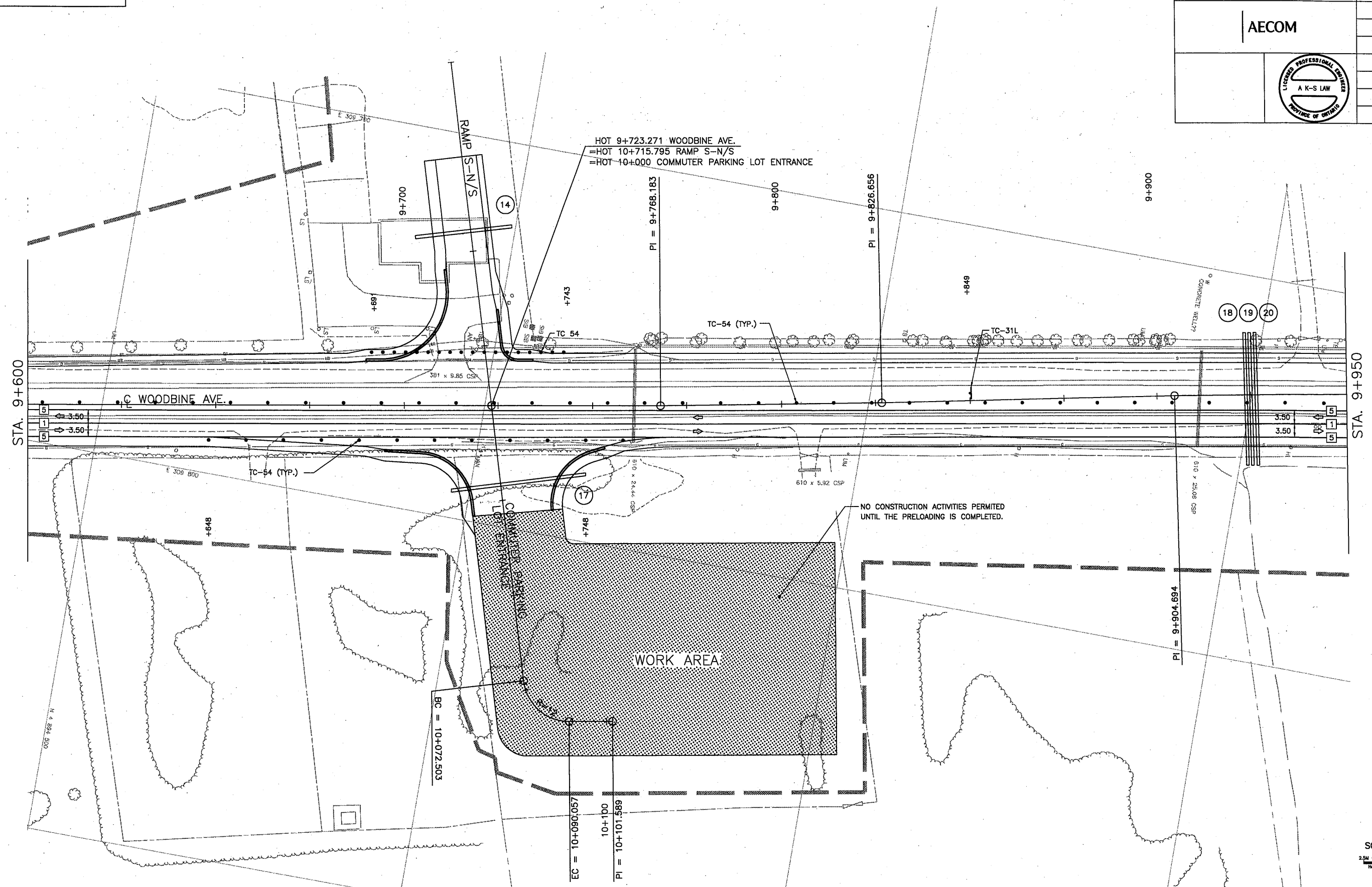
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DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

SHEET
STG-15

Legend:

-  UNDER CONSTRUCTION
-  DIRECTION OF TRAFFIC
-  EXISTING LANES



SCALE

0 5M

horizontal

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DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

WP 2005-07-00

SHEET
STG-16

SCALE
0 5M
Horizontal

← →

10. 11. 2017

EXISTING LANES

STA. 9+950

$$\underline{BC = 10+014.710}$$

INTERIM RAMP S-S
R=65

$$CS = 10 + 421.900$$
 $10+400$
$$\underline{SC = 10 + 315.852}$$
 $10+300$

RAMP N-2

A=130

HOT 10+003.705 WOODBINE AVE.
=HOT 10+000.000 RAMP S-S

$$PI = 9 + 968.545$$

10+000

10+100

10+200

+214

+242

TO

TC-31R &
TC-120At

 $R=3000$

R-3000

 $R=3000$

STA. 10+300

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

EXISTING LANES

1. EXISTING COMMERCIAL ENTRANCES ON WOODBINE AVE. AND RAVENSHOE RD. CANNOT BE CLOSED AT THE SAME TIME. MINIMUM ONE (1) ENTRANCE ON WOODBINE AVENUE AND PARTIAL ACCESS/EGRESS ON RAVENSHOE ROAD ENTRANCE MUST BE MAINTAINED AT ALL TIME. ALL ENTRANCES MUST BE OPEN AT THE END OF EACH DAYS WORK.
2. FOR WIDENING WORK AREA AT THE NW CORNER OF THE INTERSECTION NOT PROTECTED BY TCB, NEW ROAD GRADE MUST BE BROUGHT UP TO MATCH THE ADJACENT PAVEMENT AT END OF EACH DAYS WORK TO PREVENT POTENTIAL PAVEMENT DROP OFF AFTER HOURS.

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

STAGE 3
WOODBINE AVENUE

AECOM

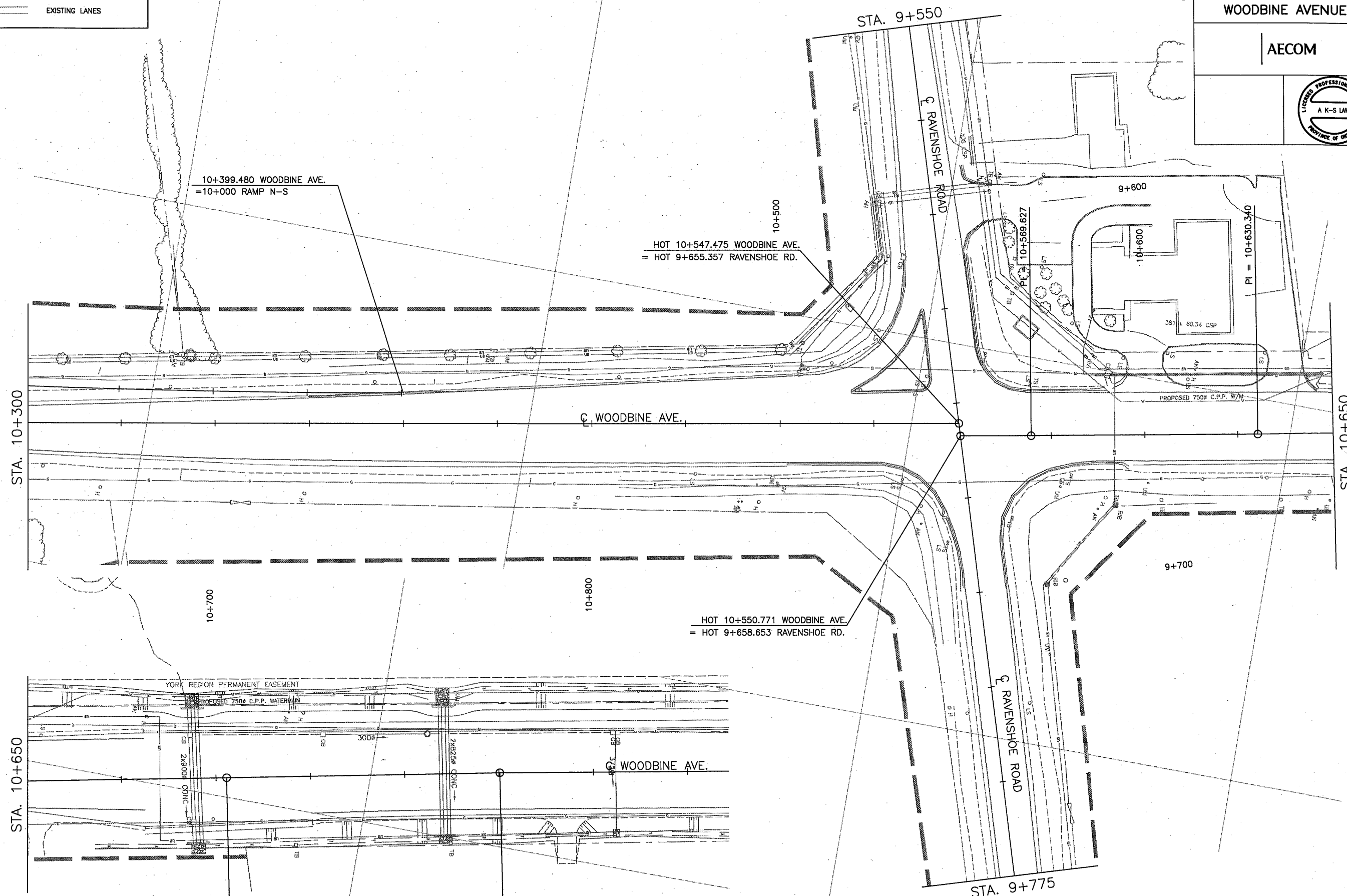


SHEET
STG-17

SCALE

2.5M 0 5M

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MINISTRY OF TRANSPORTATION, ONTARIO

88-D-707 88-05

LEGEND



UNDER CONSTRUCTION



DIRECTION OF TRAFFIC



EXISTING LANES

NOTES:

1. PRIVATE ENTRANCE AT STATION 9+870 LT. MUST BE MAINTAINED AND ACCESSIBLE AT ALL TIMES.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

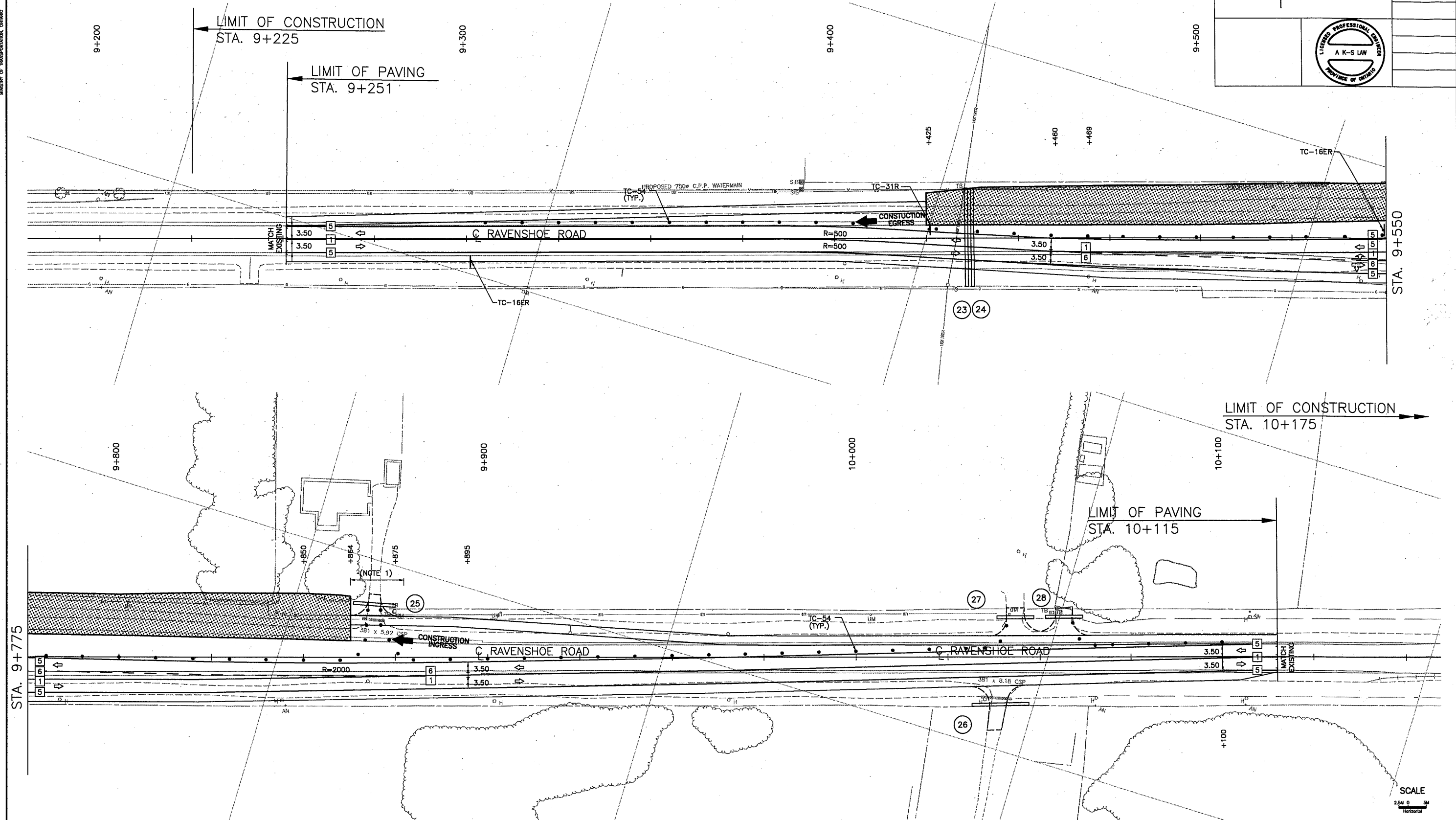
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WP 2005-07-00

STAGE 3
RAVENSHOE ROAD

SHEET
STG-18

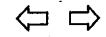
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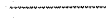
LEGEND



UNDER CONSTRUCTION



DIRECTION OF TRAFFIC



EXISTING LANES

GENERAL NOTES: (APPLY TO ALL STAGES)

- ALL TRAFFIC CONTROL AND SIGNS SHALL BE IN CONFORMANCE WITH CURRENT OTM BOOK 7 TEMPORARY CONDITIONS.
- ALL CULVERTS SHOWN ON STAGING DRAWINGS ARE PROPOSED.

SUGGESTED CONSTRUCTION SEQUENCE

STAGE	CONSTRUCTION	TRAFFIC
STAGE 4	<p>RELOCATE TEMPORARY TRAFFIC SIGNAL CONTROLS AS REQUIRED TO STAGE 4 CONFIGURATION.</p> <p>REMOVE PAVEMENT ON WOODBINE AVENUE AND RAVENSHOE ROAD TO CONSTRUCT MEDIAN ISLANDS.</p> <p>COMPLETE ANY OUTSTANDING WORK IN COMMUTER PARKING LOT.</p> <p>INSTALL PERMANENT TRAFFIC SIGNAL CONTROLS AT WOODBINE AVENUE / RAVENSHOE ROAD INTERSECTION. DECOMMISSION TEMPORARY TRAFFIC SIGNAL CONTROLS.</p> <p>PLACING SURFACE COURSE TO WOODBINE AVENUE, RAVENSHOE ROAD, COMMUTER PARKING LOT ENTRANCE DRIVEWAY AND HIGHWAY 404.</p>	<p>TRAFFIC ON STAGE 3 LANE CONFIGURATION.</p> <p>IMPLEMENT TEMPORARY LANE REDUCTIONS ON WOODBINE AVENUE AND RAVENSHOE ROAD, AND FLAGGING IN OFF PEAK HOURS.</p> <p>PLACE TRAFFIC ON STAGE 4 LANE CONFIGURATION.</p>

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT

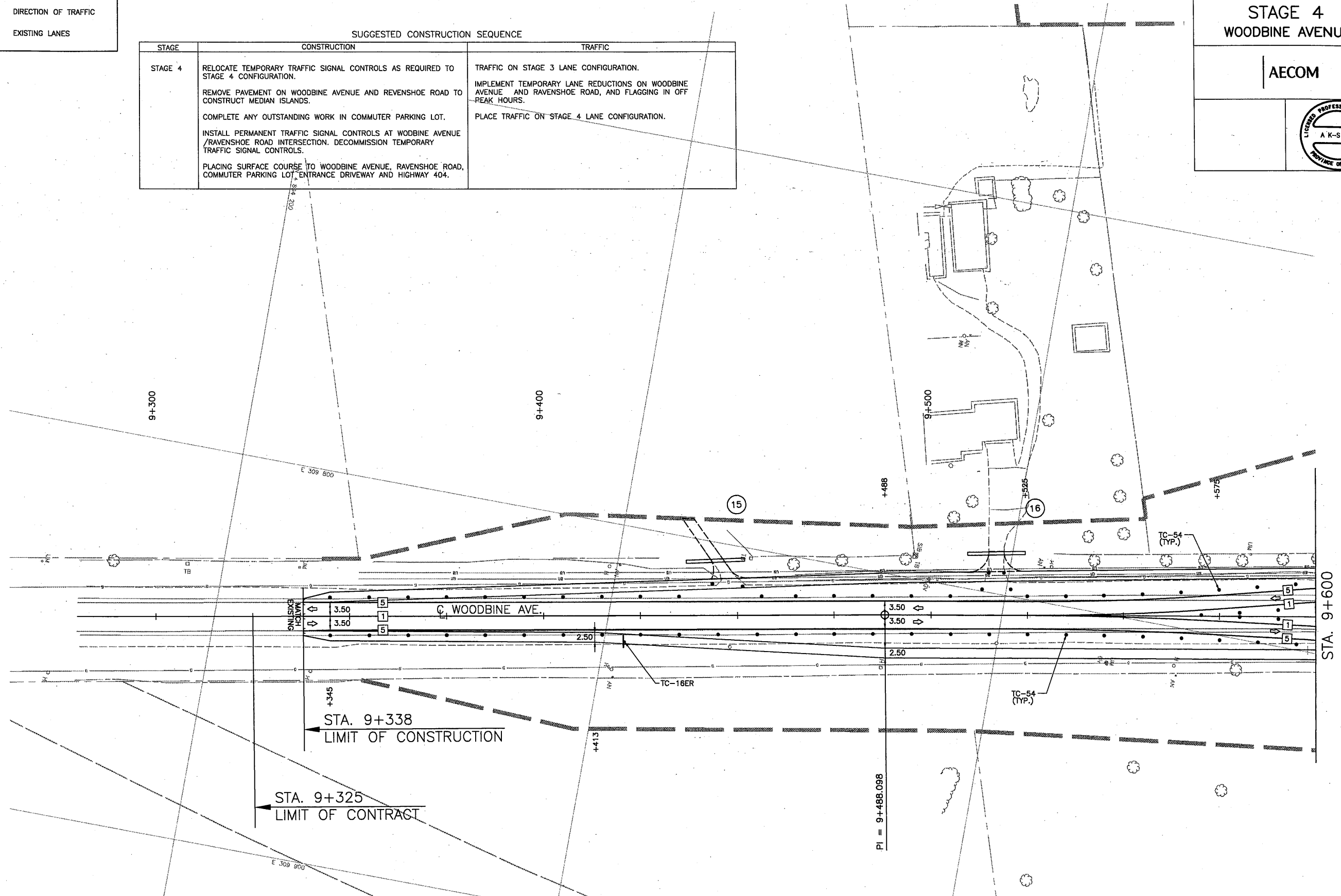
WP 2005-07-00

STAGE 4
WOODBINE AVENUE

AECOM




SHEET
STG-19

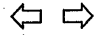


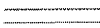
SCALE

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Horizontal

LEGEND

 UNDER CONSTRUCTION

 DIRECTION OF TRAFFIC

 EXISTING LANES

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

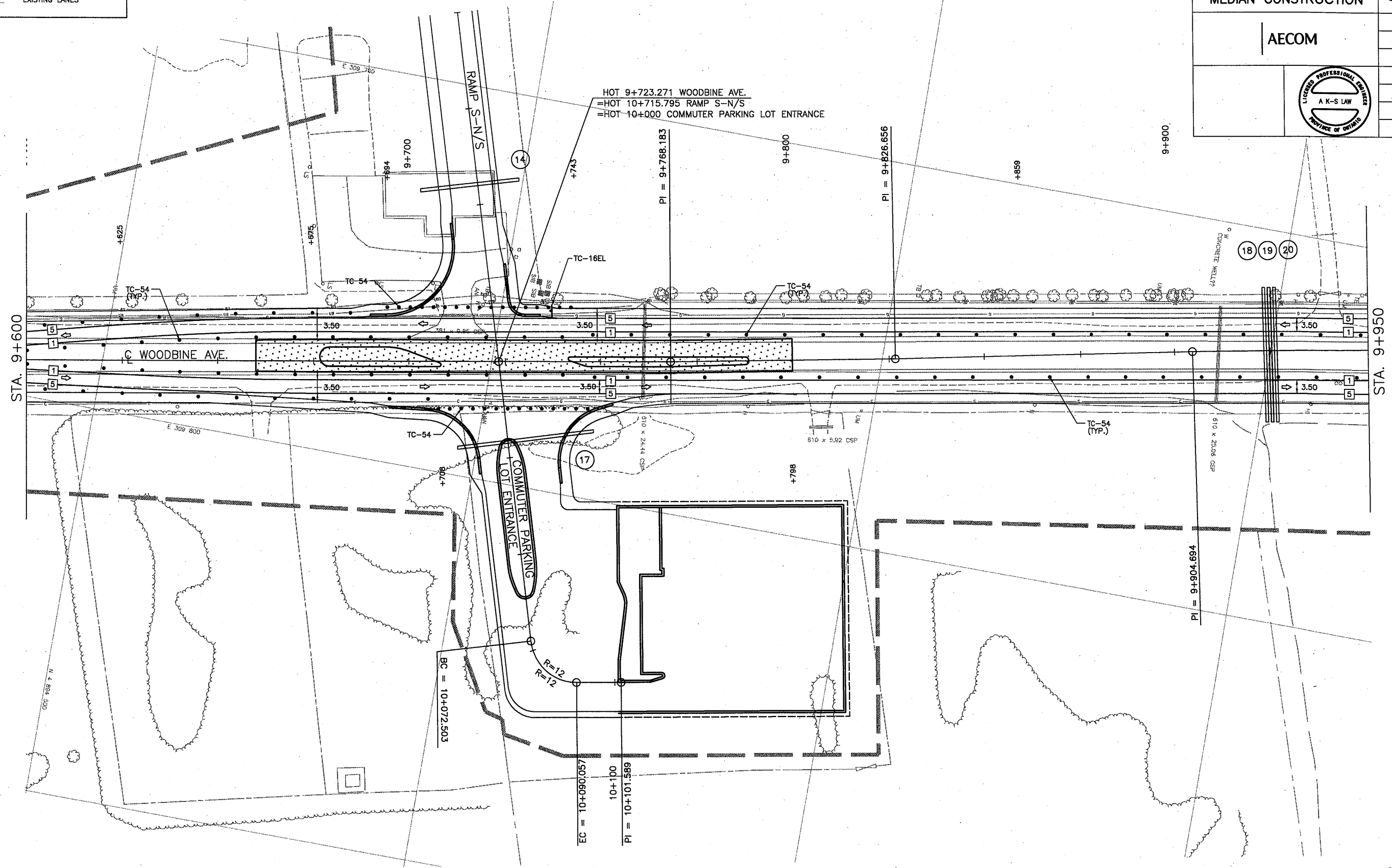
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WP 2005-07-00

STAGE 4
MEDIAN CONSTRUCTION

AECOM






SHEET
STG-20



SCALE
2.5m 0 5m
Horizontal

LEGEND

-  UNDER CONSTRUCTION
-  DIRECTION OF TRAFFIC
-  EXISTING LANES

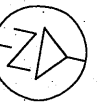
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AND/OR MILLIMETRES
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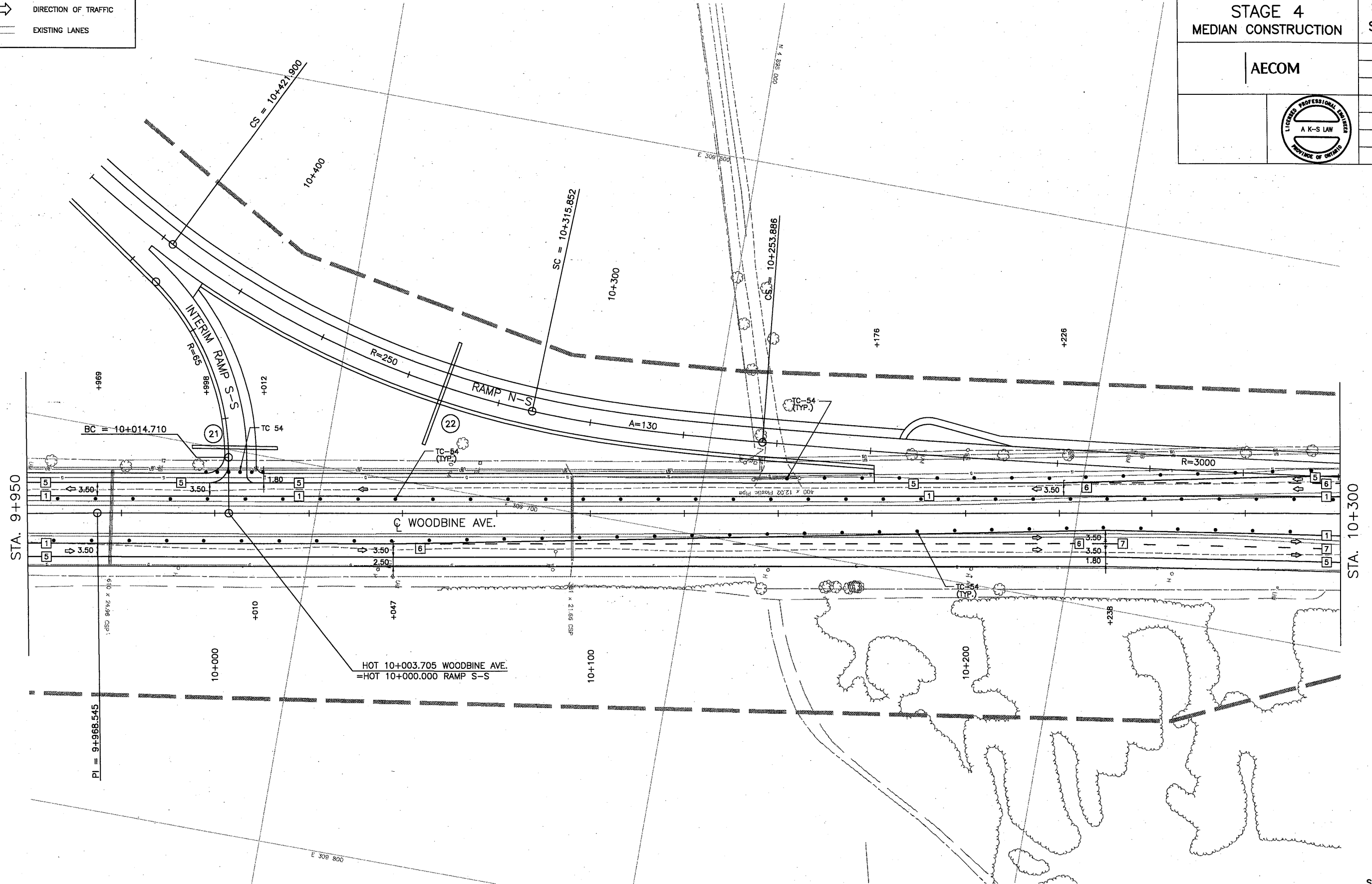
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WP 2005-07-00

STAGE 4
MEDIAN CONSTRUCTION

AECOM




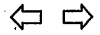
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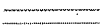


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LEGEND

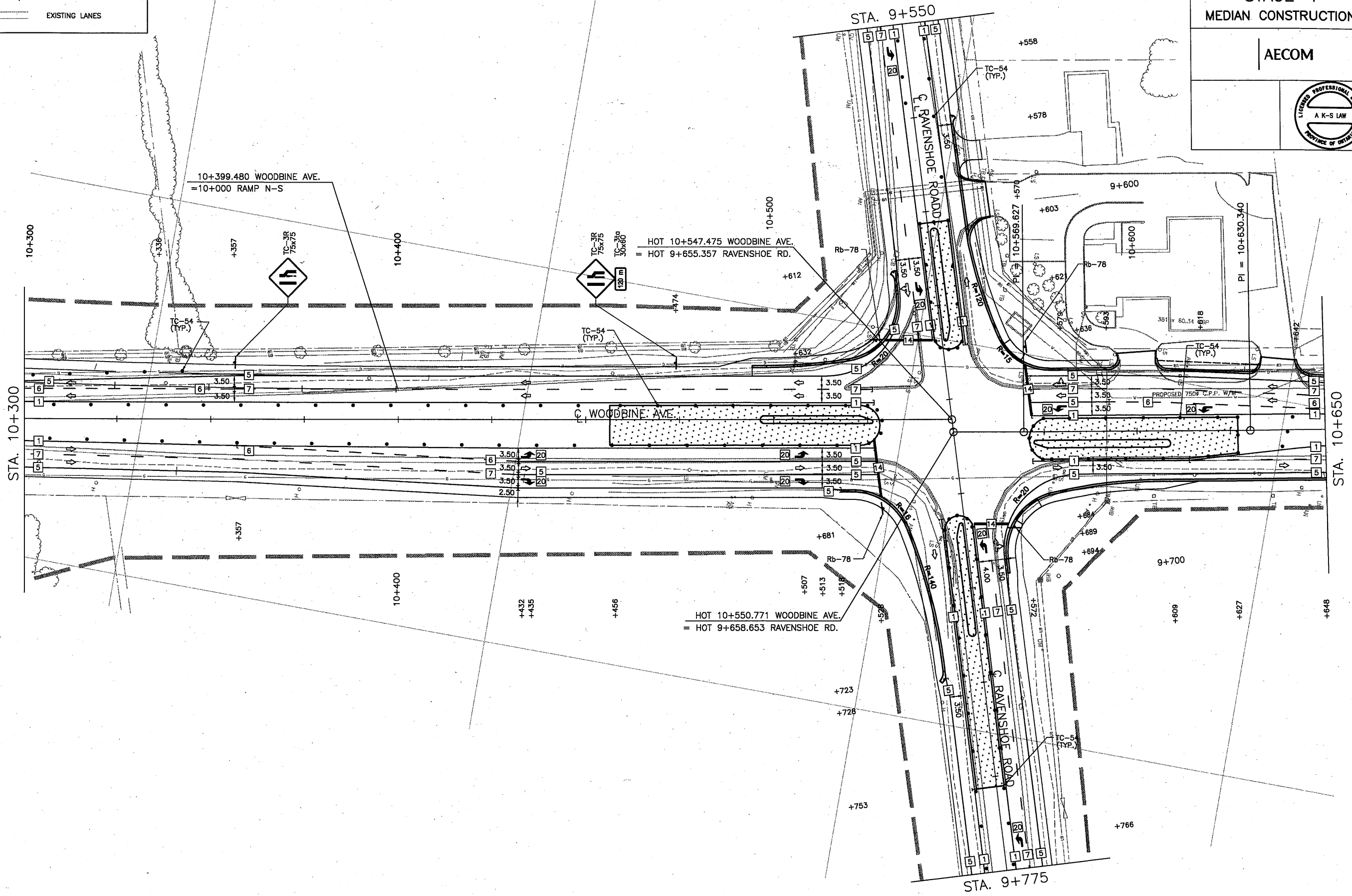
 UNDER CONSTRUCTION

 DIRECTION OF TRAFFIC

 EXISTING LANES

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT WP 2005-07-00			
STAGE 4 MEDIAN CONSTRUCTION			SHEET STG-22
AECOM			
			



SCALE
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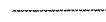
LEGEND



UNDER CONSTRUCTION



DIRECTION OF TRAFFIC



EXISTING LANES

METRIC

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AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

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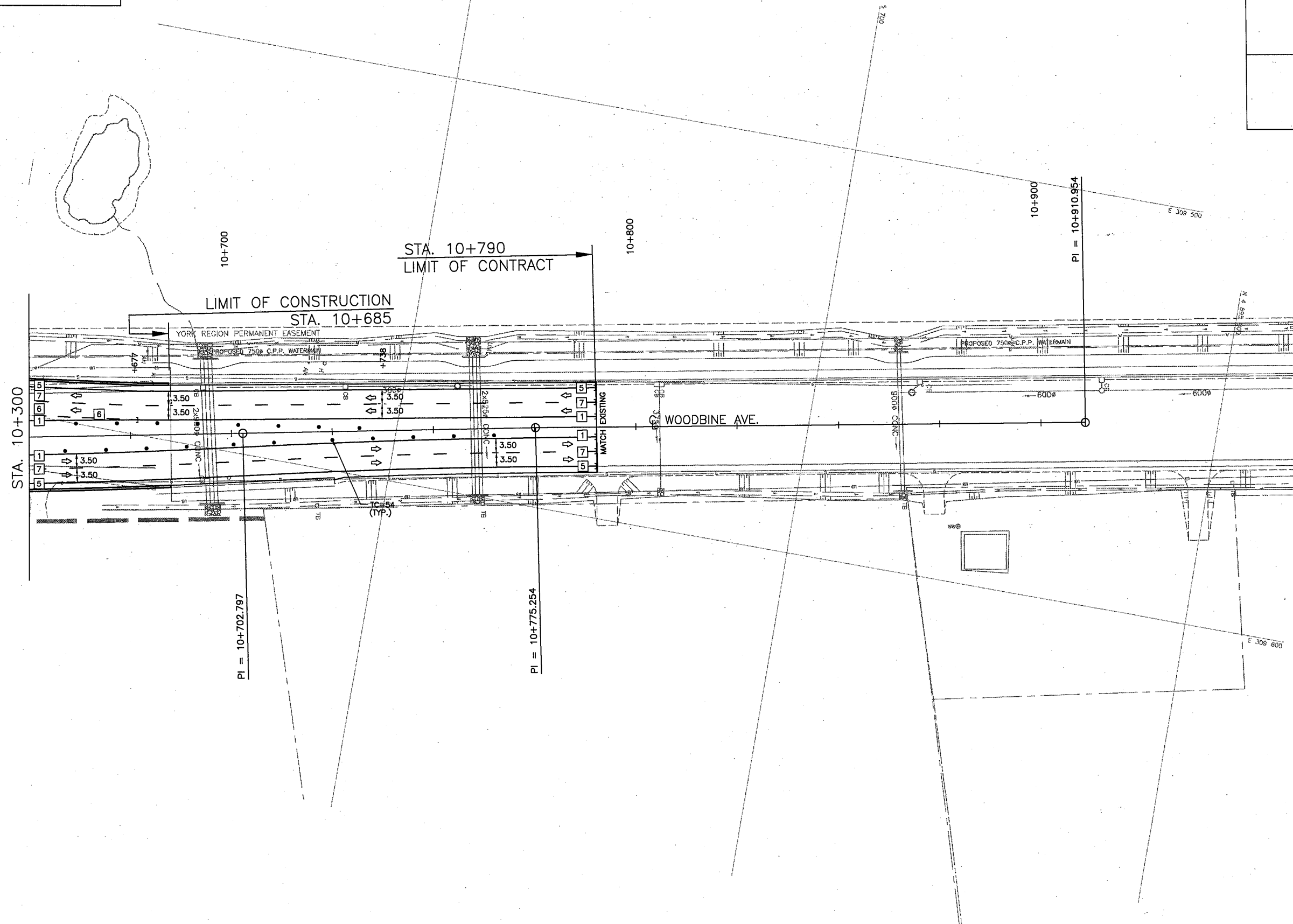
WP 2005-07-00



STAGE 4
MEDIAN CONSTRUCTION

SHEET
STG-23

AECOM



SCALE
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Horizontal

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

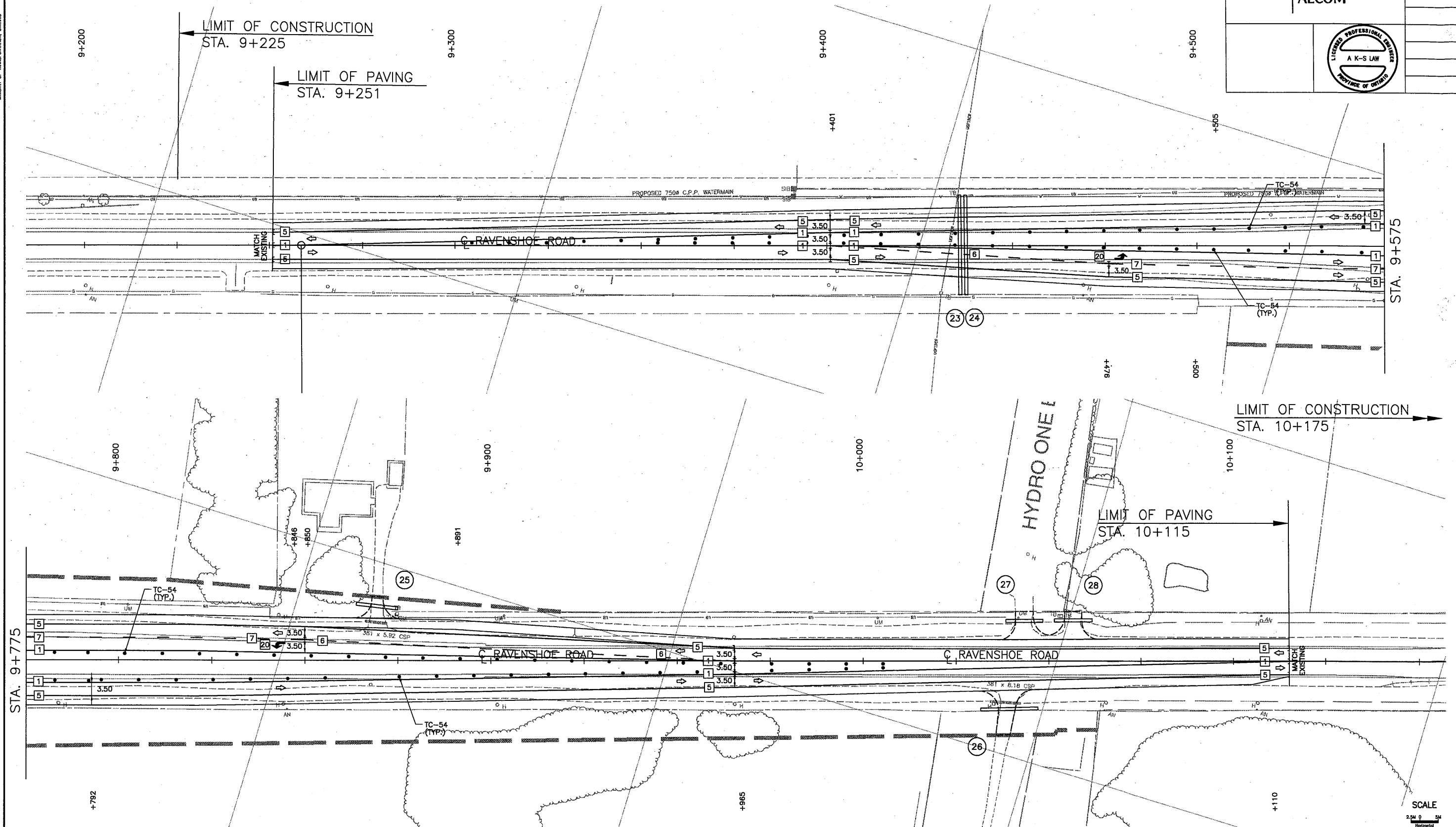
SHEET
STG-24



UNDER CONSTRUCTION

DIRECTION OF TRAFFIC

EXISTING LANES



SCALE
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horizontal

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LEGEND

- NC-## NEW CONSTRUCTION
R-## REMOVALS
PMS-## PAVING MARKING & SIGNING

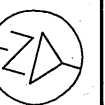
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PLATE No
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WP 2005-07-00

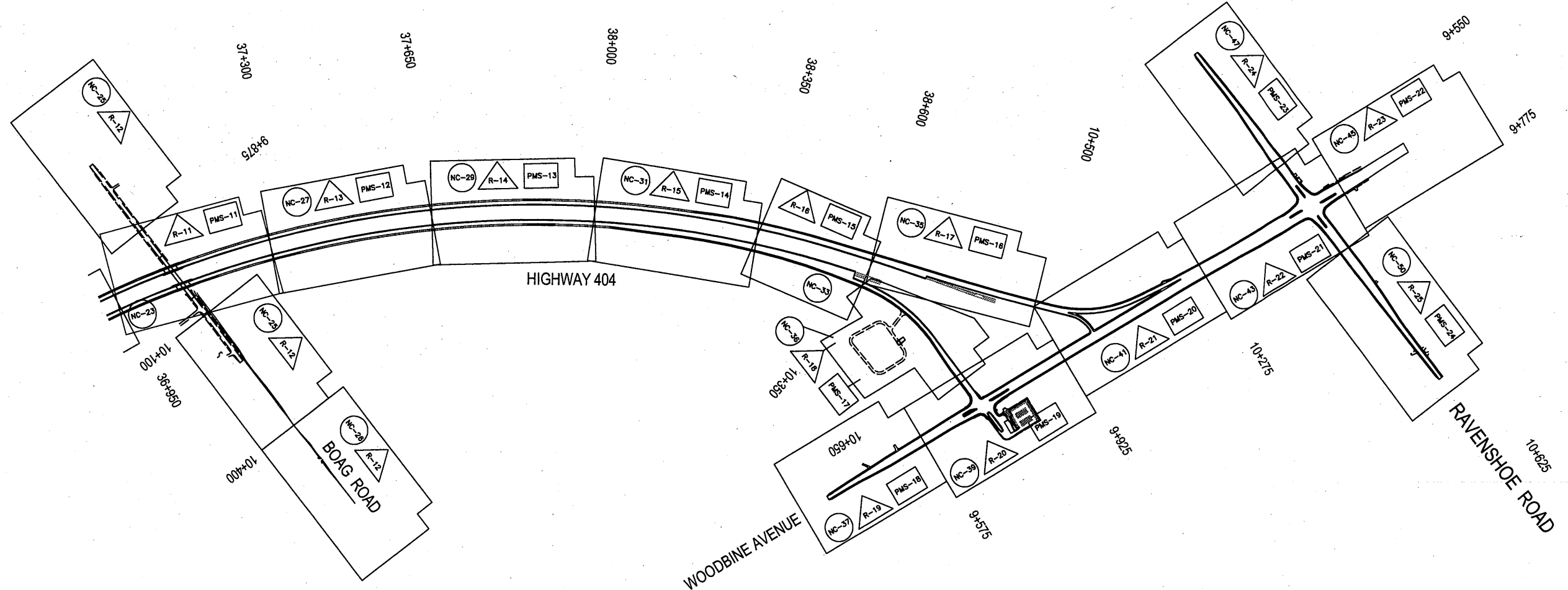
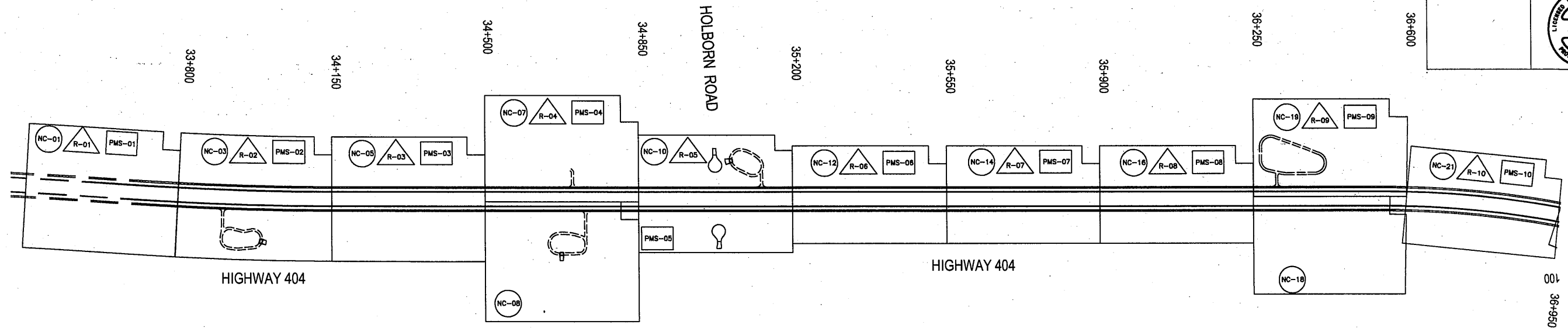
INDEX SHEET

Survey Revised

AECOM



SHEET
IND-01



SCALE
N.T.S.

METRIC

PLATE No
CONT
WP 2005-07-00



REMOVALS
STA 33+450 TO STA 33+800
Survey _____ Revised _____

SHEET
R-01

AECOM

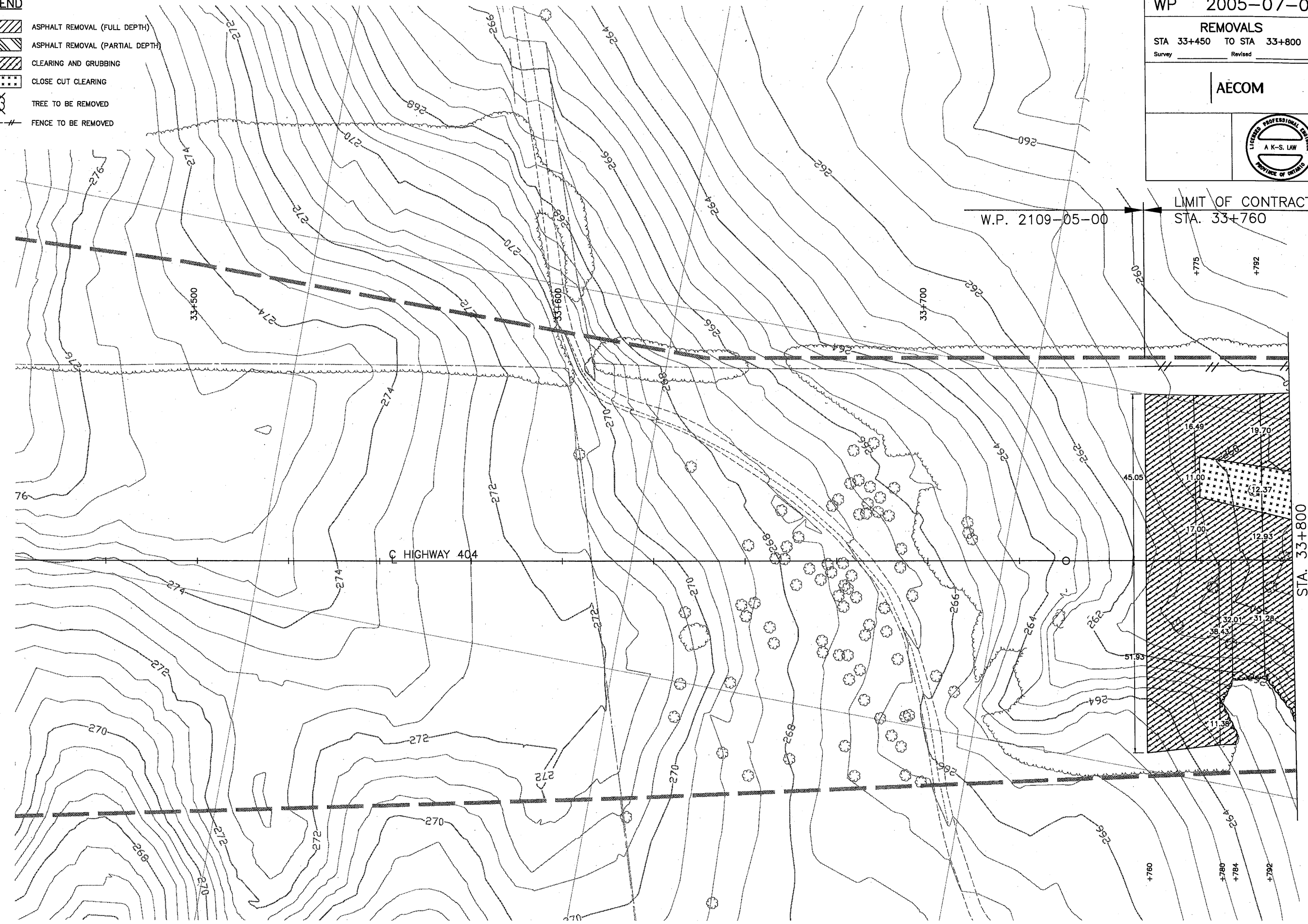


LIMIT OF CONTRACT
STA. 33+760

W.P. 2109-05-00

LEGEND

- ASPHALT REMOVAL (FULL DEPTH)
- ASPHALT REMOVAL (PARTIAL DEPTH)
- CLEARING AND GRUBBING
- CLOSE CUT CLEARING
- TREE TO BE REMOVED
- FENCE TO BE REMOVED



SCALE
2.5m 0 5m
Horizontal

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SAVED BY: mazzaferron
SAVE DATE: 7/7/2010 3:45 PM
PLOT DATE: 9/28/2010 3:47 PM

MINISTRY OF TRANSPORTATION, ONTARIO

PR-D-707 BR-05

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MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707

BB-35

METRIC

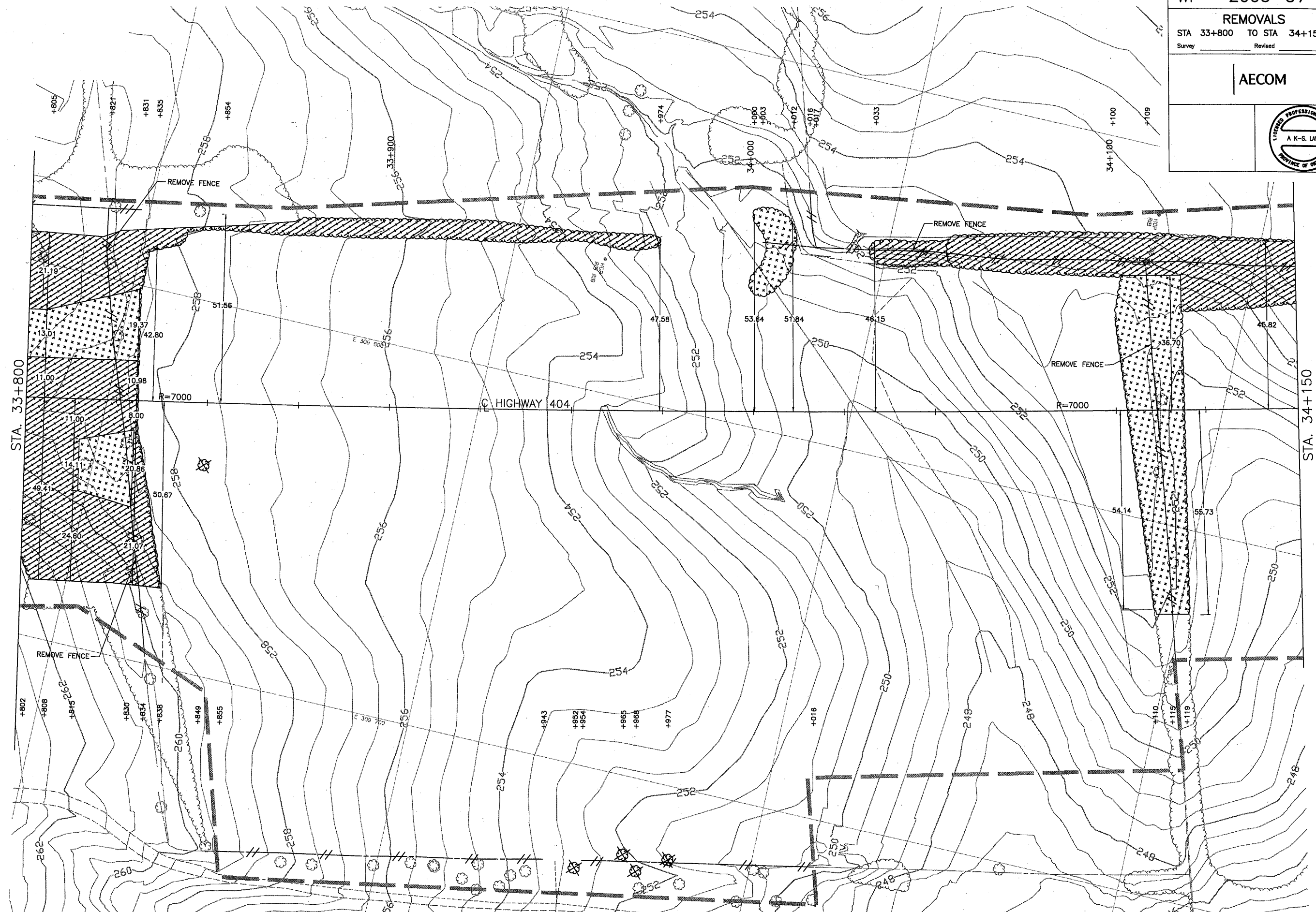
PLATE No
CONT
WP 2005-07-00

REMOVALS
STA 33+800 TO STA 34+150
Survey _____ Revised _____

AECOM



SHEET
R-02

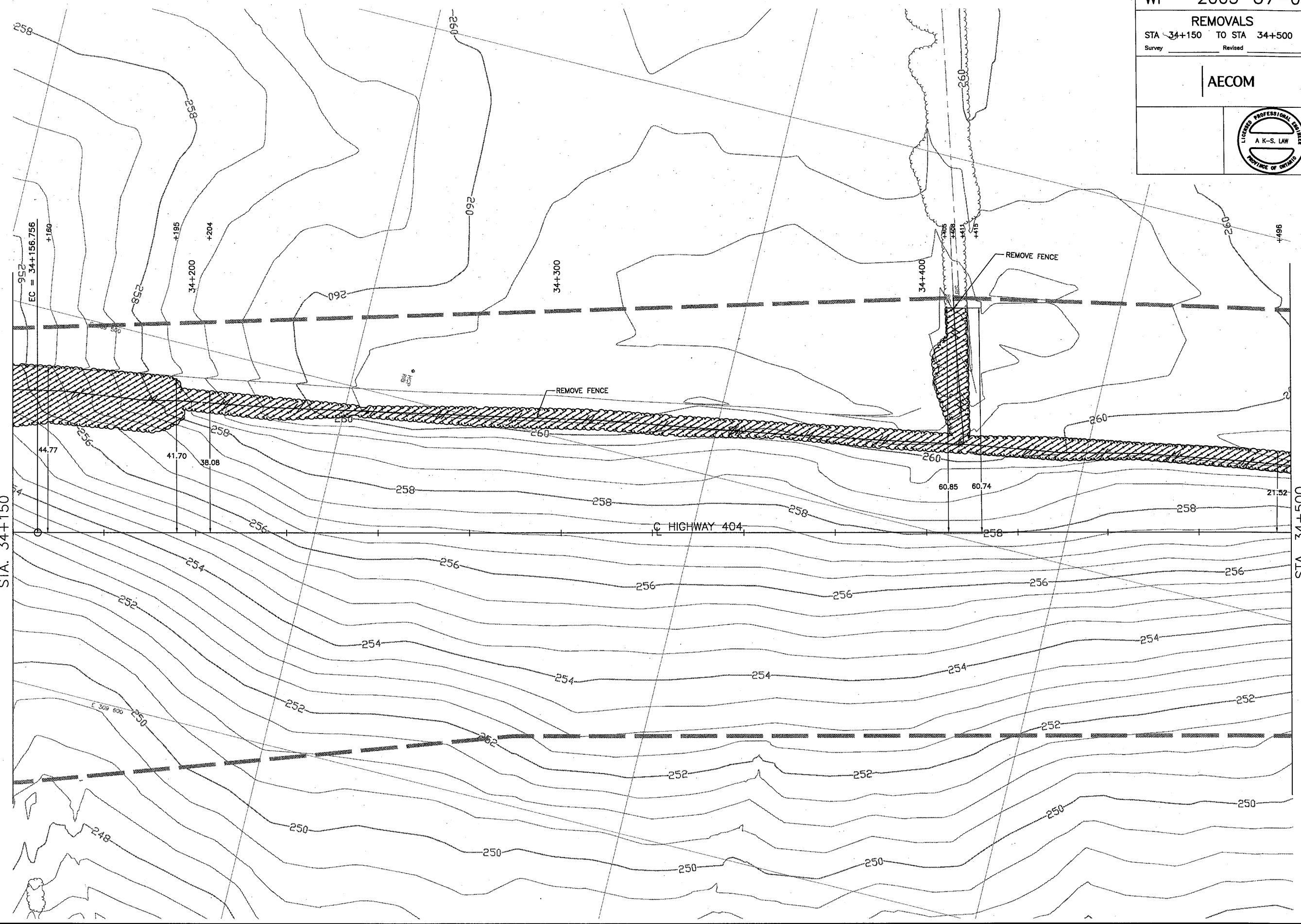


SCALE
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Horizontal

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PLOT DATE: 9/28/2010 3:47 PM
SAVE DATE: 5/7/2010 3:39 PM


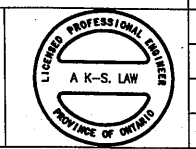
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

STA. 34+150



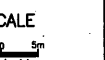
STA. 34+500

METRIC

PLATE No		
CONT		
WP 2005-07-00		
REMOVALS		SHEET R-03
STA 34+150 TO STA 34+500		
Survey _____ Revised _____		
AECOM		
		

SCALE
2.5m p 5m
Horizontal

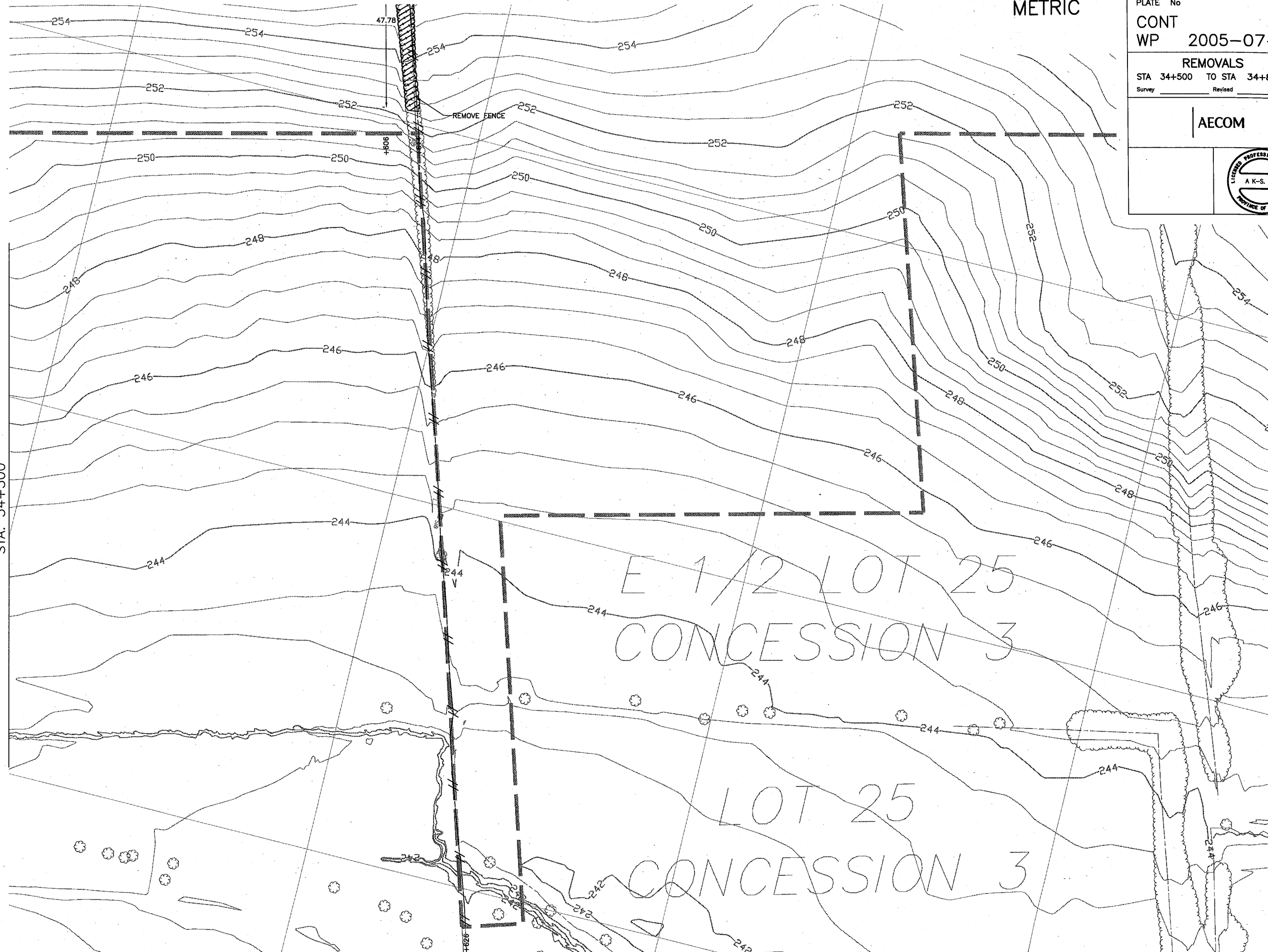
SHEET
R-04

[illegible]

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PLOT DATE: 9/28/2010 3:48 PM
SAVED BY: mazzaferron

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

STA. 34+500



METRIC

PLATE No
CONT
WP 2005-07-00
REMOVALS
STA 34+500 TO STA 34+850
Survey Revised

SHEET
R-05

AECOM

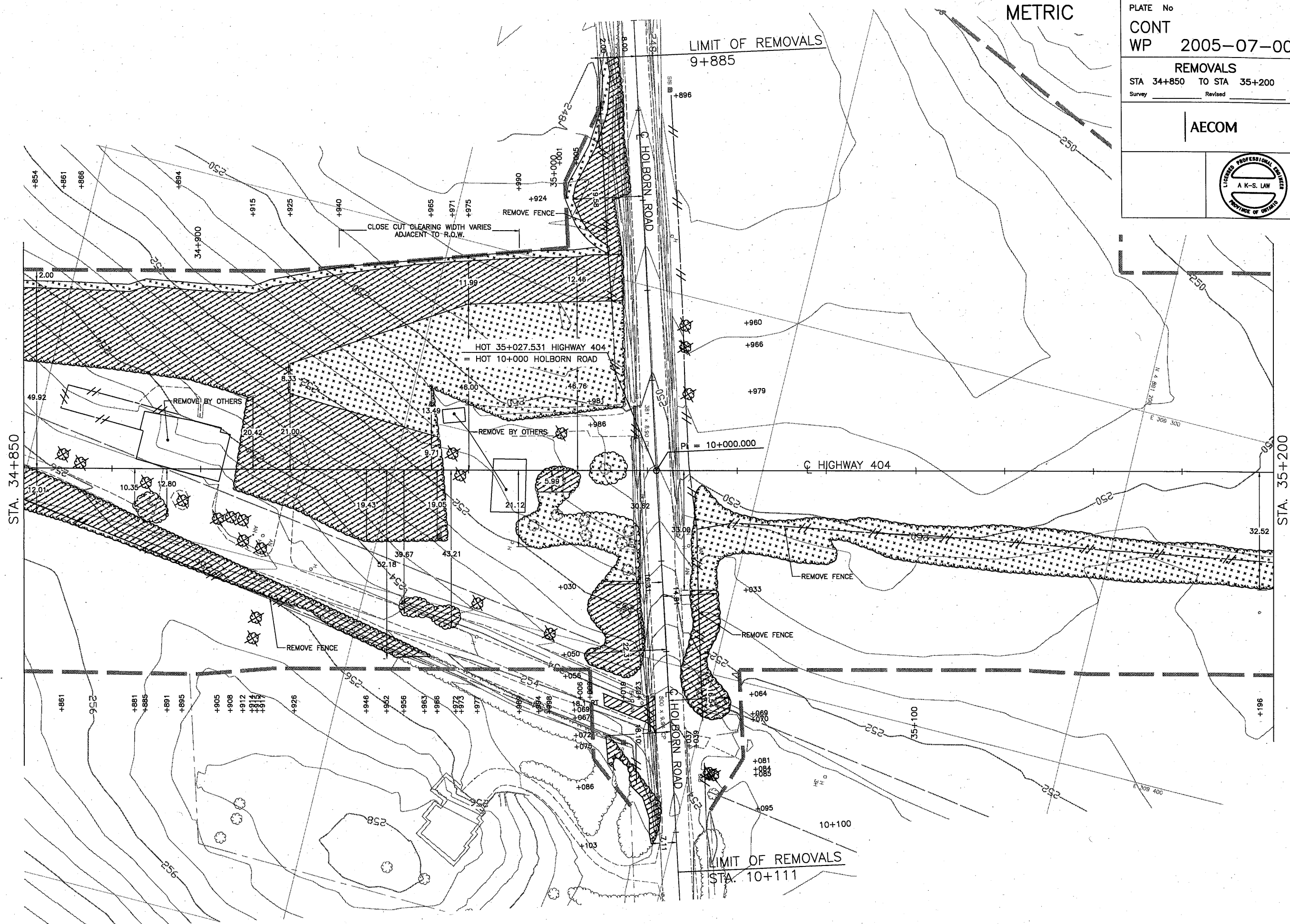


STA. 34+850

SCALE
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Horizontal

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SAVE DATE: 5/18/2010 1:14 PM
PLOT DATE: 9/29/2010 3:48 PM

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



METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS
STA 34+850 TO STA 35+200
Survey Revised

AECOM

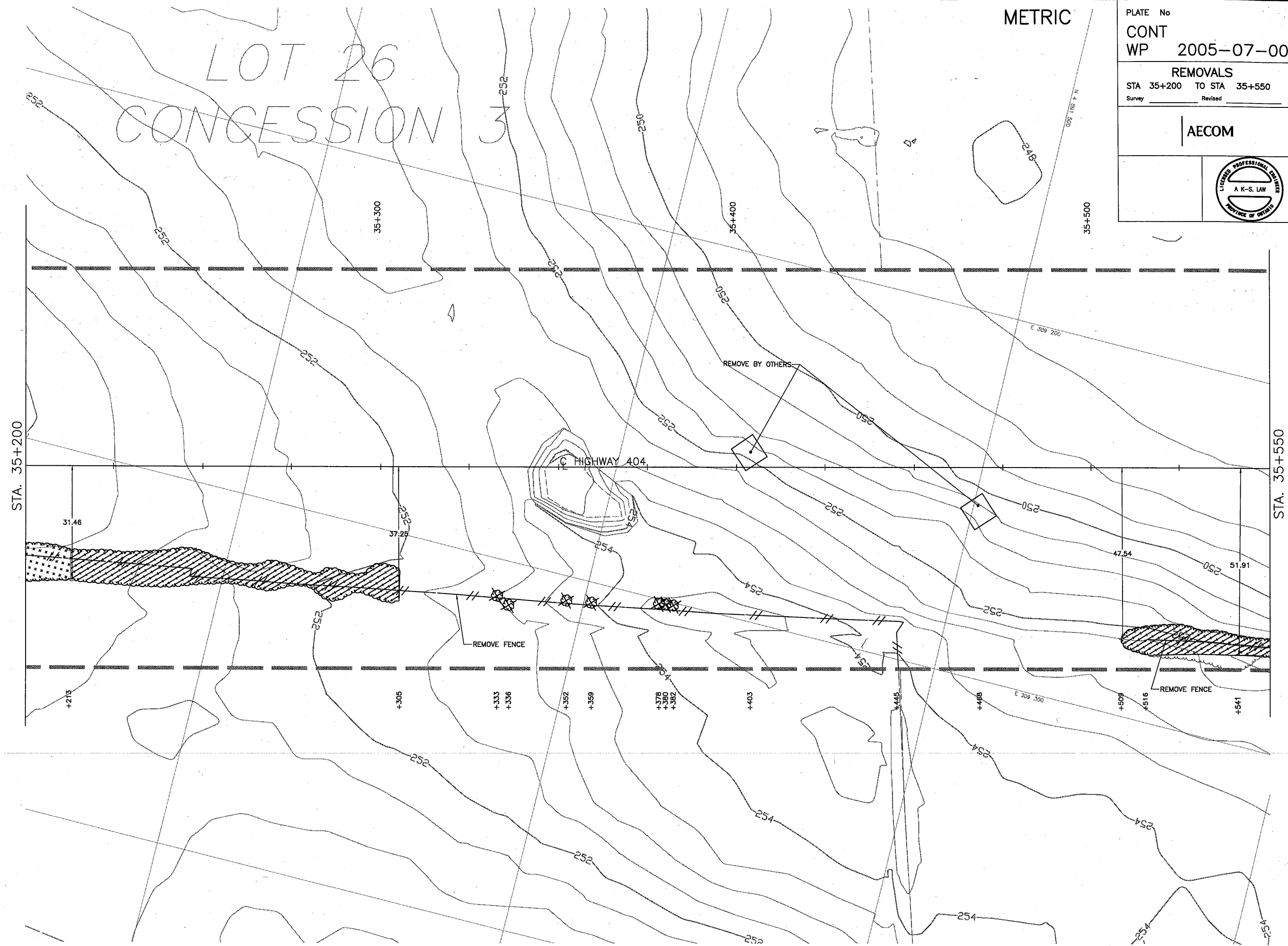


SHEET
R-06

SCALE
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PLOT DATE: 9/28/2010 3:49 PM
SAVE DATE: 5/7/2010 3:43 PM

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



METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS
STA 35+200 TO STA 35+550
Survey Revised

AECOM



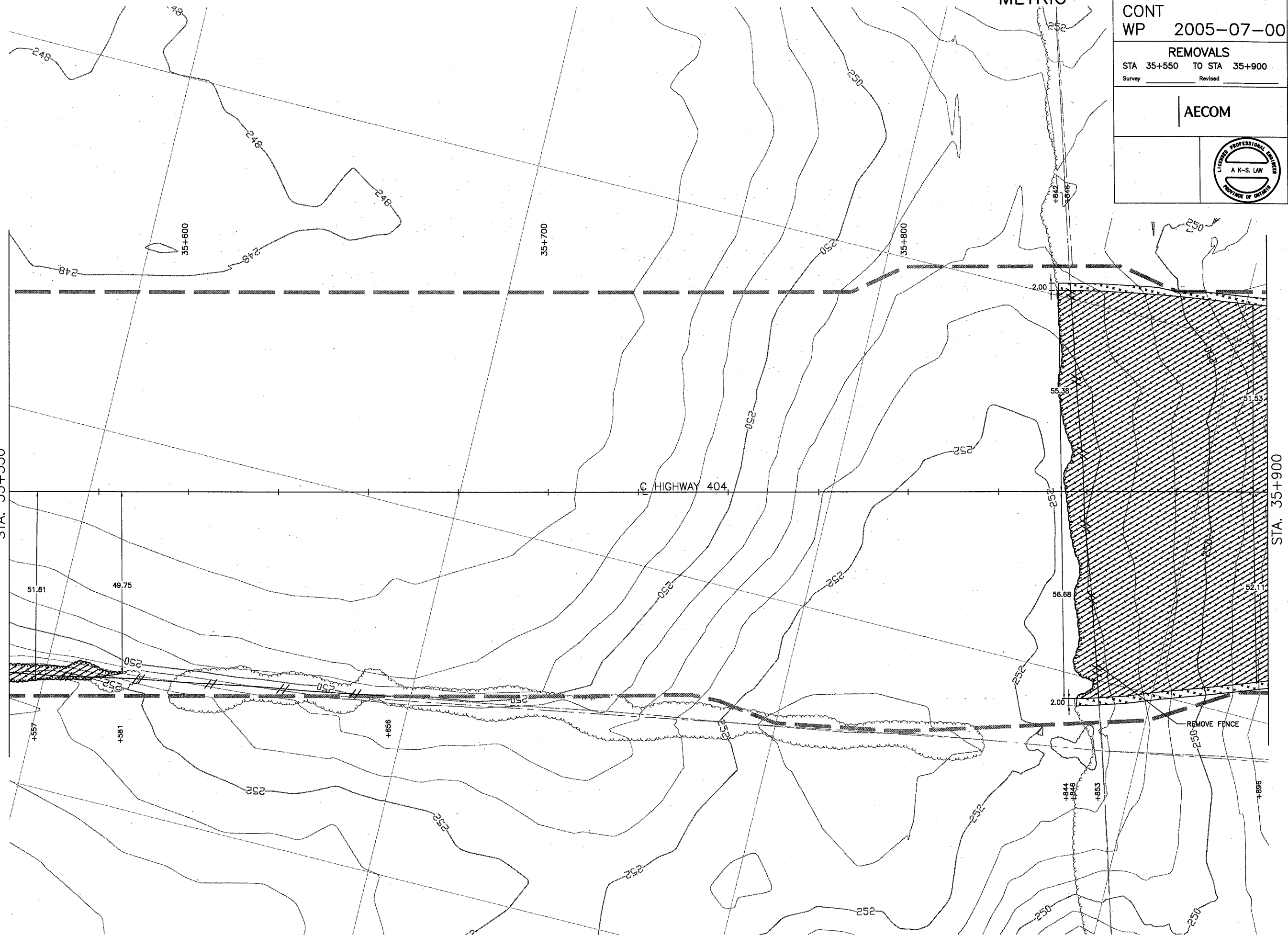
SHEET
R-07

SCALE
2.5m 0 5m
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PLOT DATE: 9/28/2010 3:43 PM
PLOT DATE: 9/28/2010 3:49 PM

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

STA. 35+550



STA. 35+900

METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS
STA 35+550 TO STA 35+900
Survey Revised

AECOM



SHEET
R-08

SCALE
2.5m 0 5m
Horizontal

METRIC

PLATE No

CONT

WP 2005-07-00

REMOVALS

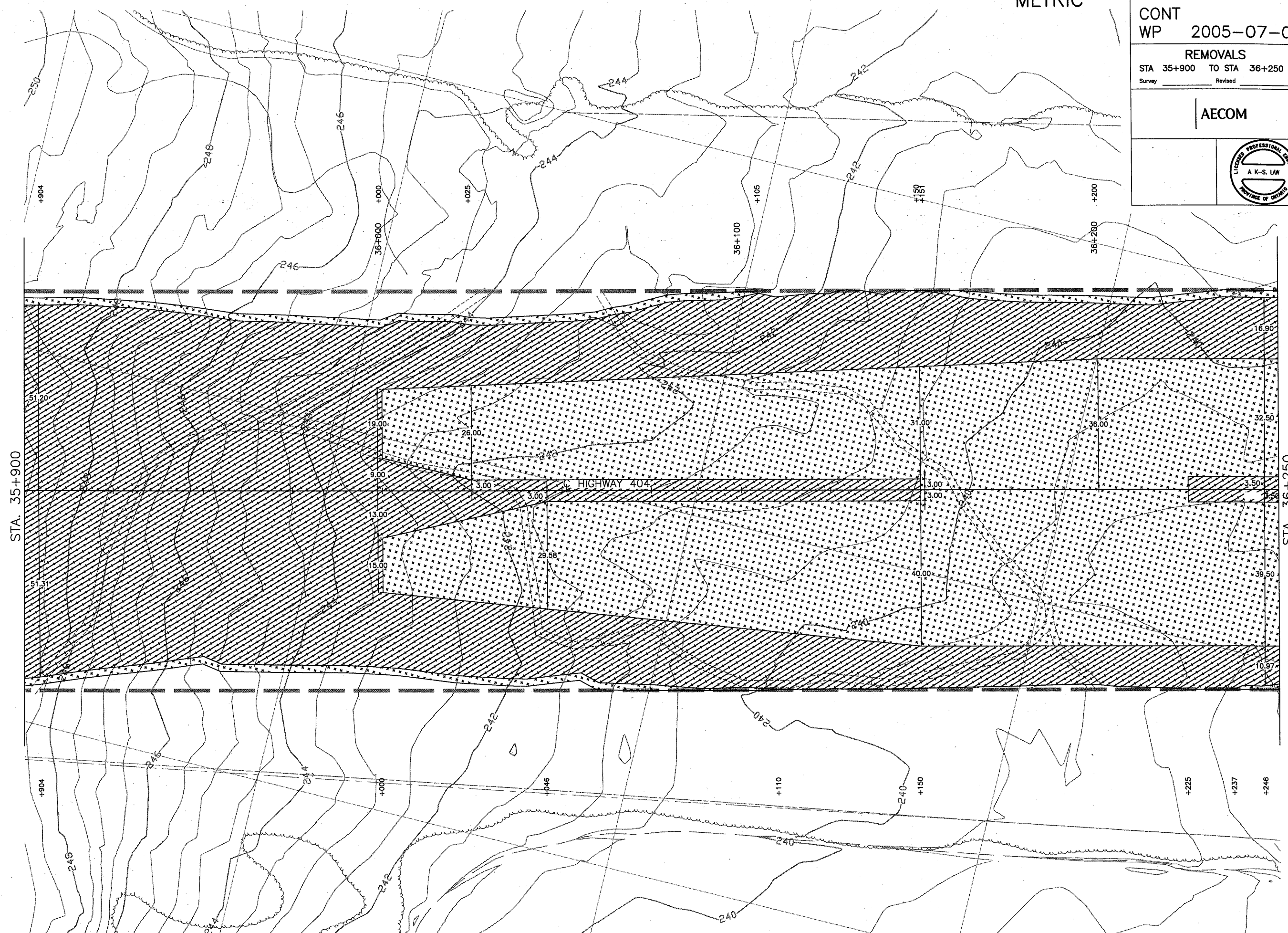
STA 35+900 TO STA 36+250

Survey	Revised
--------	---------

AECOM



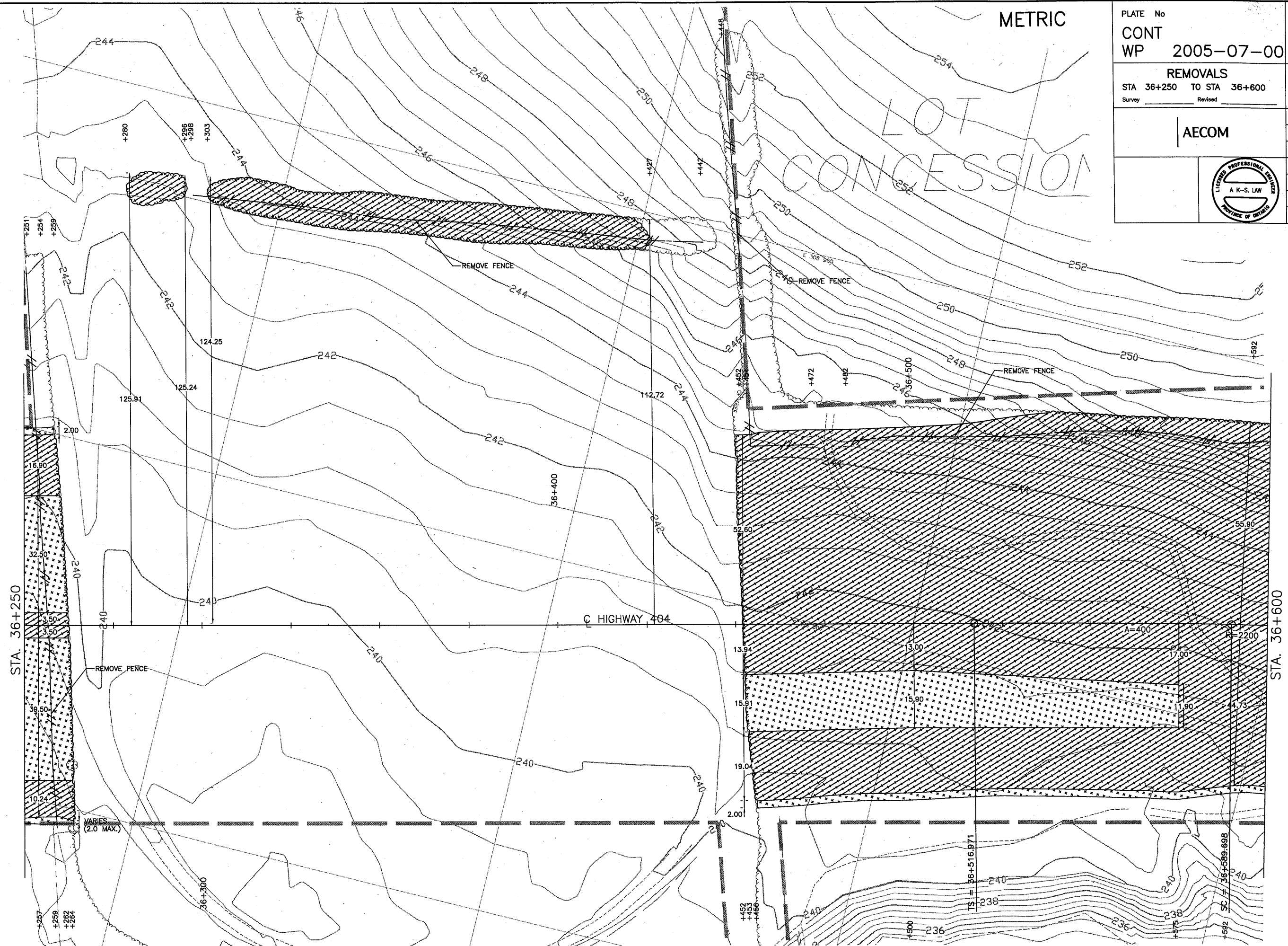
SHEET
R-09



SCALE

2.5m 0 5m

Horizontal



METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS

STA 36+250 TO STA 36+600

Survey _____ Revised _____

SHEET
R-10

AECOM



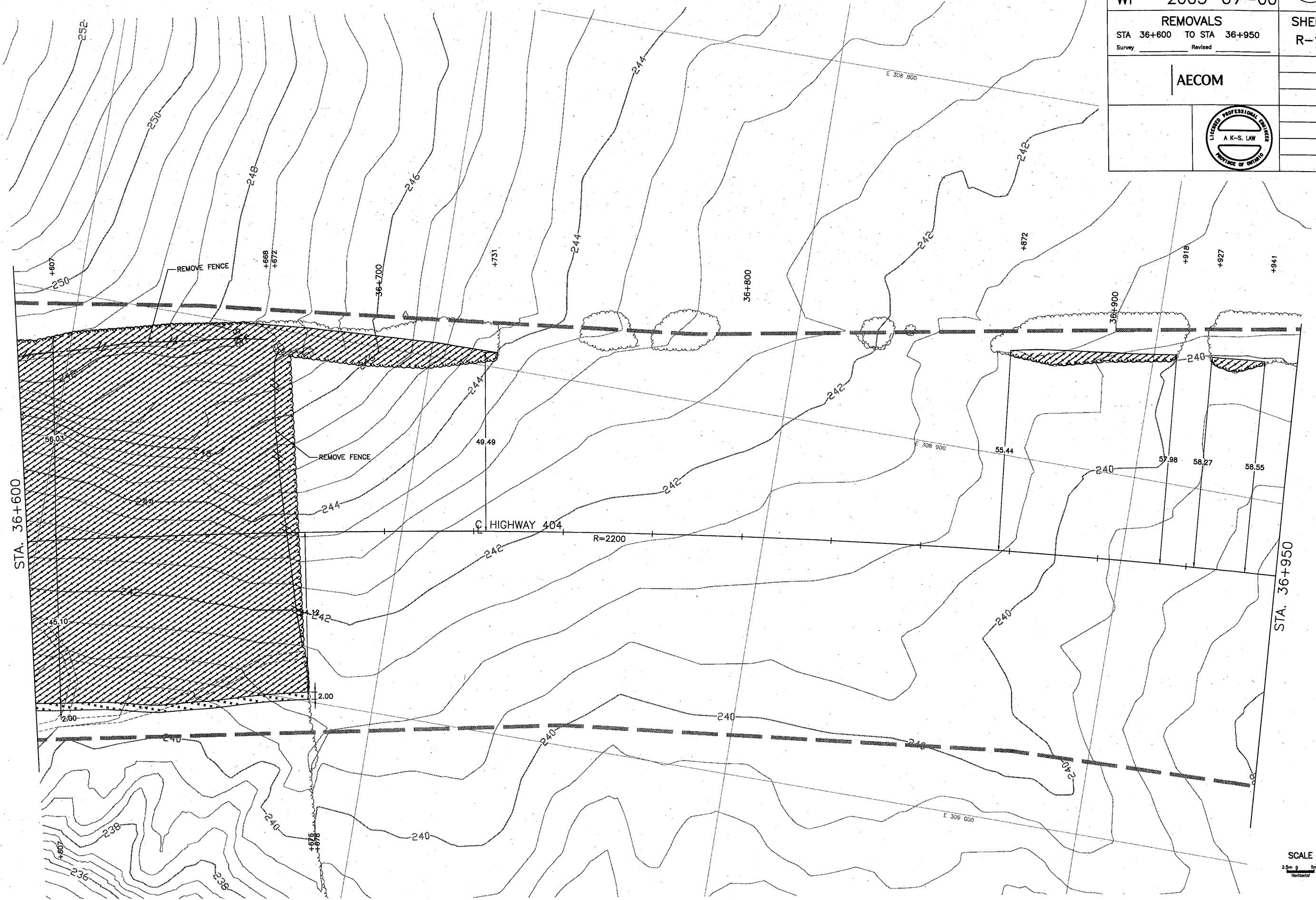
SCALE

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Horizontal

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SAVE DATE: 5/7/2010 3:48 PM
PLOT DATE: 9/28/2010 3:50 PM

MINISTRY OF TRANSPORTATION, ONTARIO
PR-9-707 88-95



METRIC

PLATE No
CONT
WP 2005-07-00

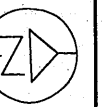
REMOVALS
STA 36+600 TO STA 36+950
Survey Revised

AECOM



SHEET
R-11

SCALE
2.5m 5m
Horizontal



SHEET
R-12

REMOVALS

STA 36+950 TO STA 37+300

Survey _____ Revised _____

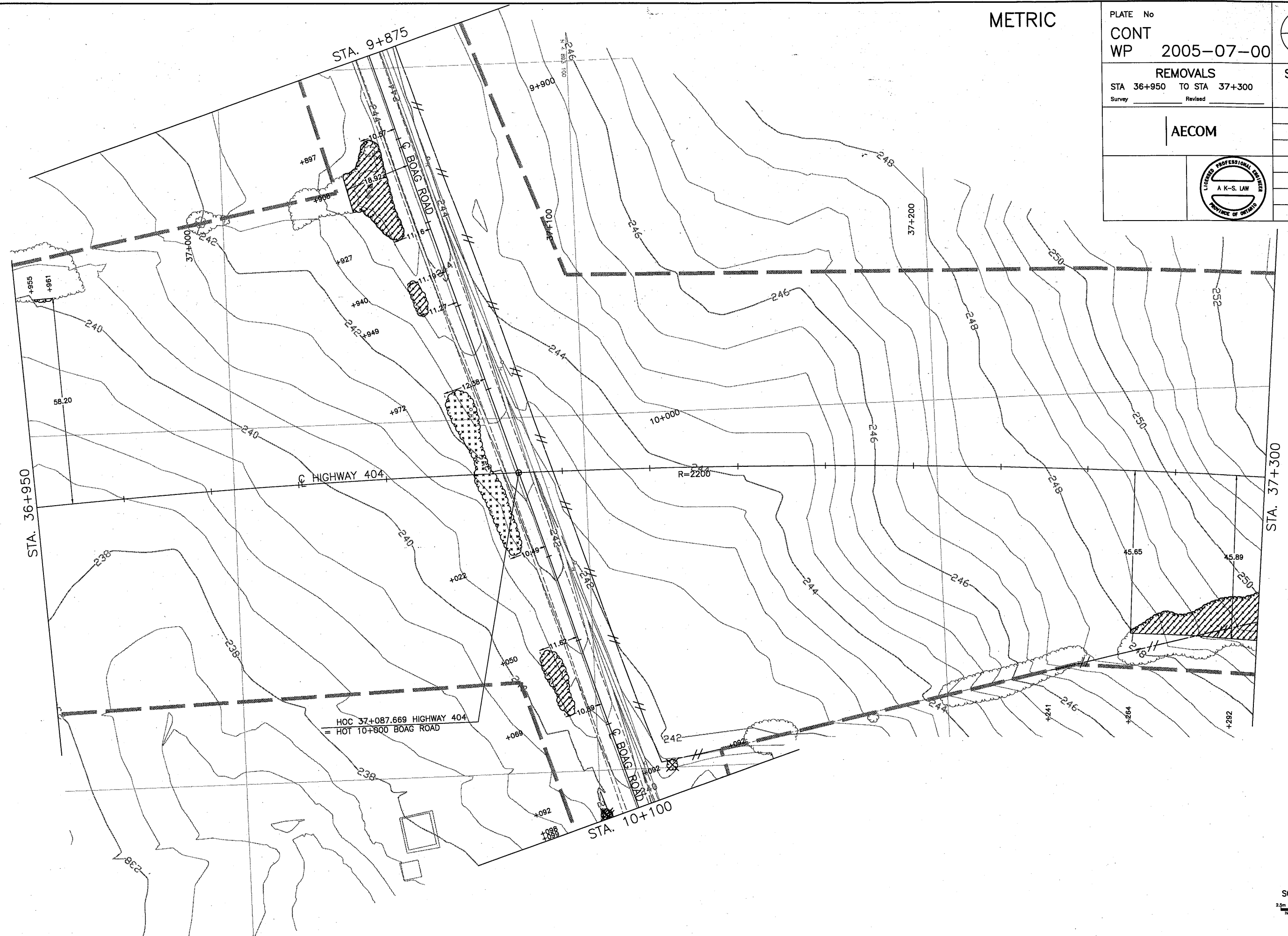
AECOM



SCALE

0 5m

horizontal



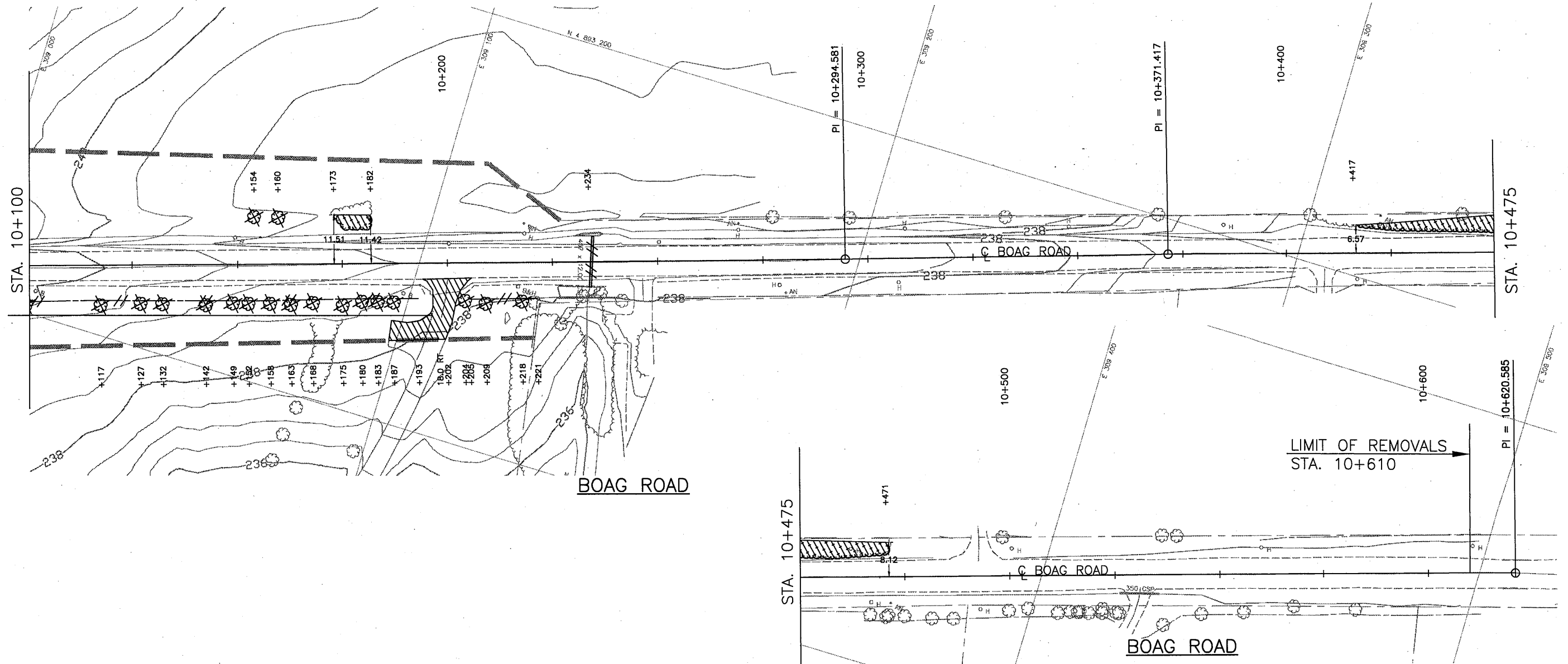
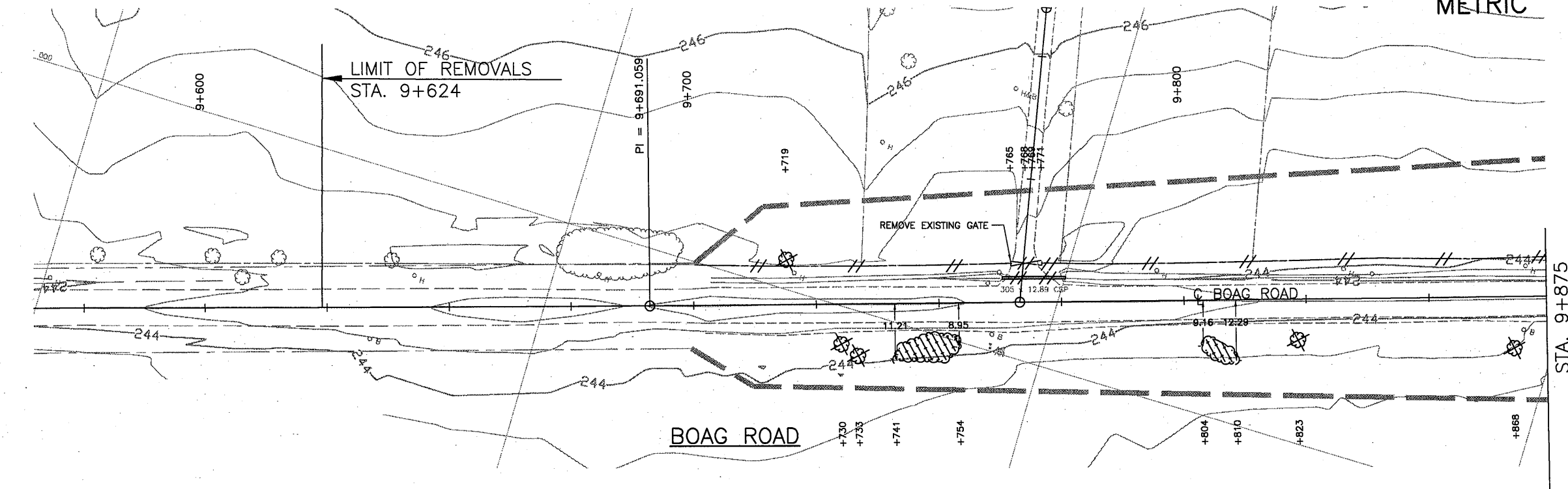
METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS
STA 9+624 TO STA 10+610
Survey Revised

SHEET
R-13

AECOM



SCALE
2.5m 0 5m
Horizontal

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SAVED BY: mozzaferron
SAVE DATE: 5/26/2010 12:51 PM
PLOT DATE: 9/28/2010 3:59 PM

MINISTRY OF TRANSPORTATION, ONTARIO

PR-5-707 88-05



METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS
STA 37+300 TO STA 37+650
Survey Revised

AECOM



SHEET
R-14

SCALE
2.5m 5m
Horizontal



SHEET
R-15.

REMOVALS

STA 37+650 TO STA 38+000

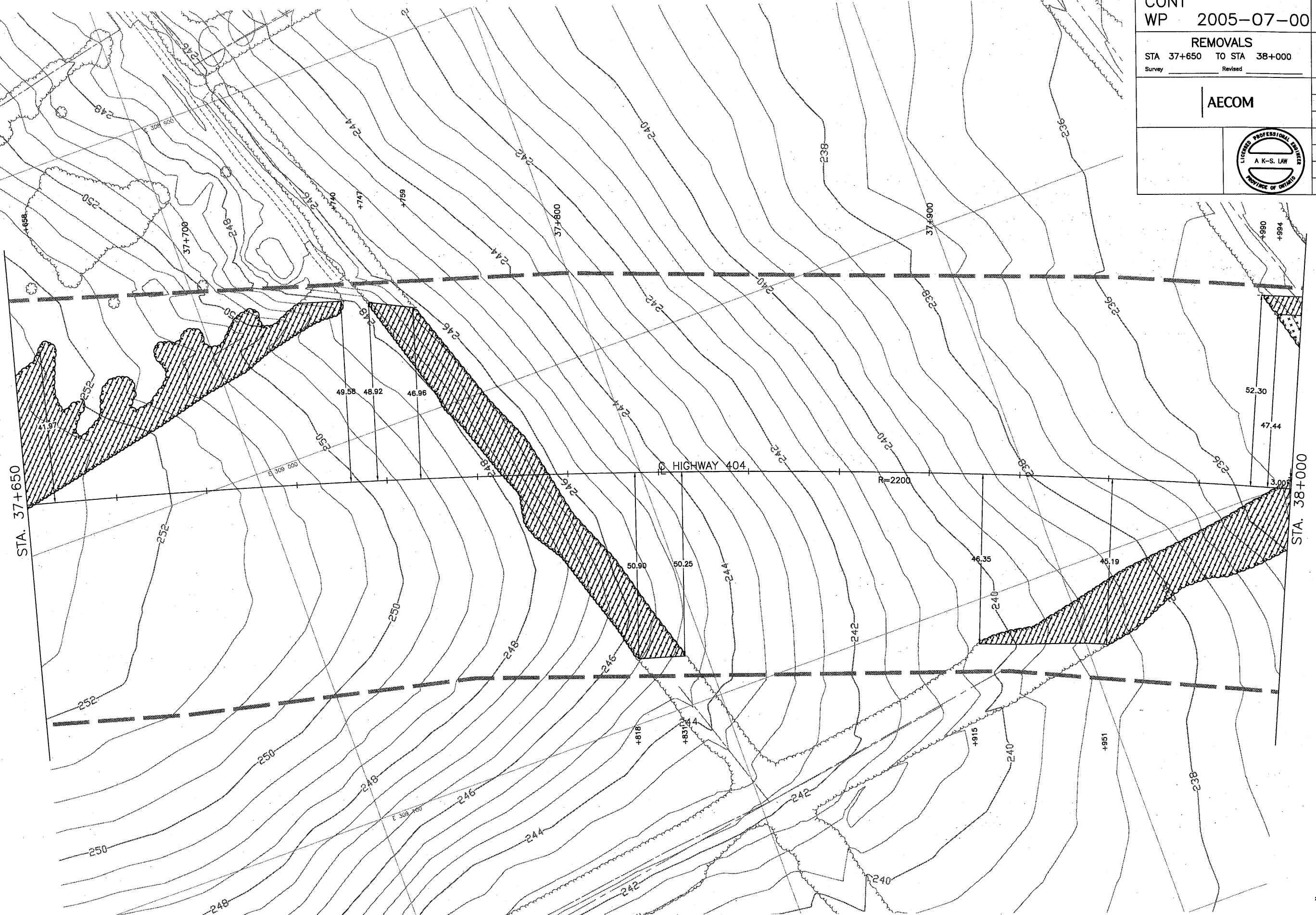
Survey _____ Revised _____

AECOM



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 SAVED BY: mazzoferrom SAVE DATE: 5/7/2010 3:49 PM
 PLOT DATE: 9/28/2010 3:52 PM

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



SCALE
0 5m
horizontal

DRAWING NAME: 253B-199-00-CT-REM-16.dwg
SAVED BY: mazzaferron
PLOT DATE: 9/28/2010 3:50 PM
PLOT DATE: 9/28/2010 3:52 PM

MINISTRY OF TRANSPORTATION, ONTARIO
PR-9-707 88-05

METRIC

PLATE No
CONT
WP 2005-07-00

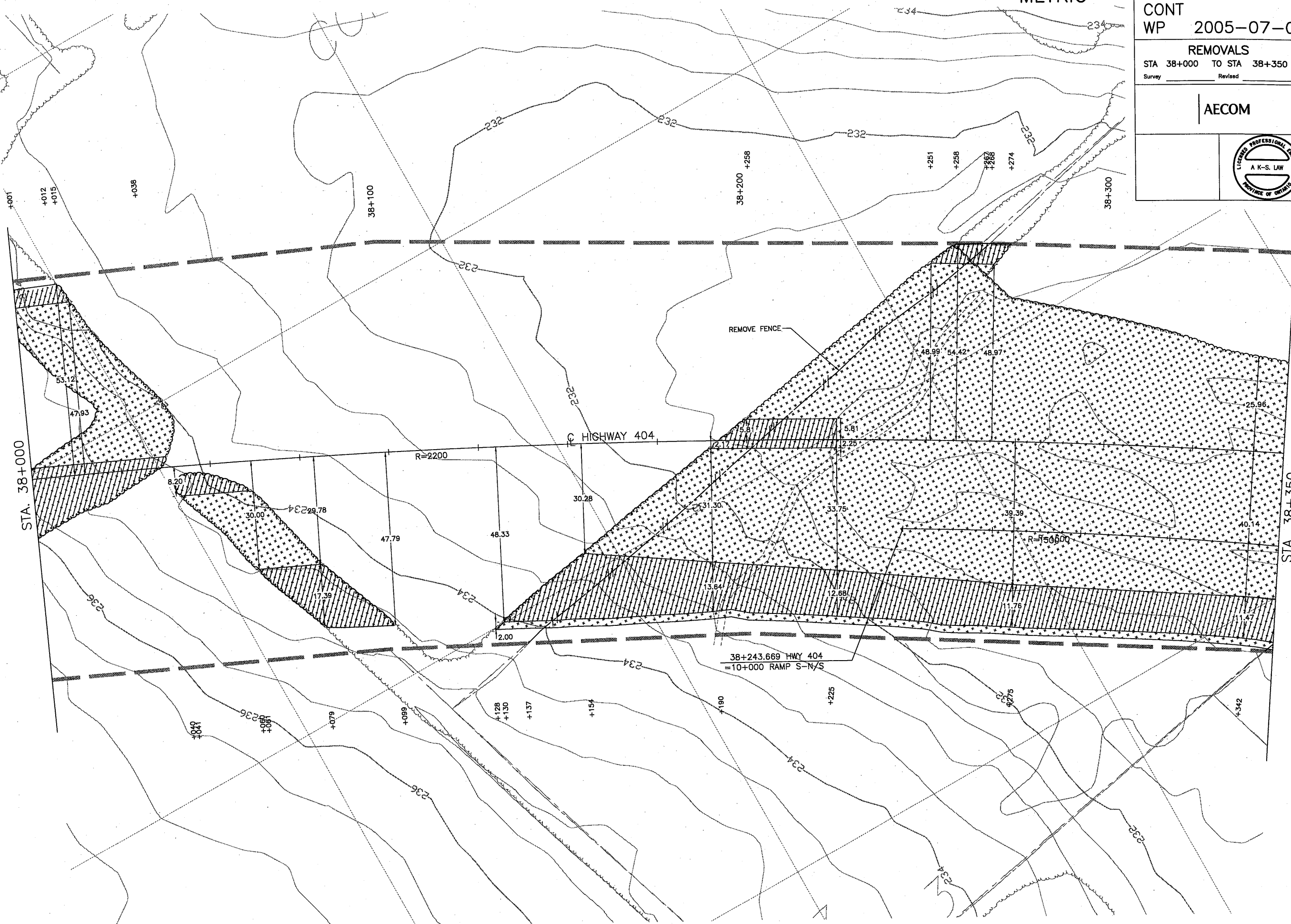
REMOVALS
STA 38+000 TO STA 38+350
Survey Revised

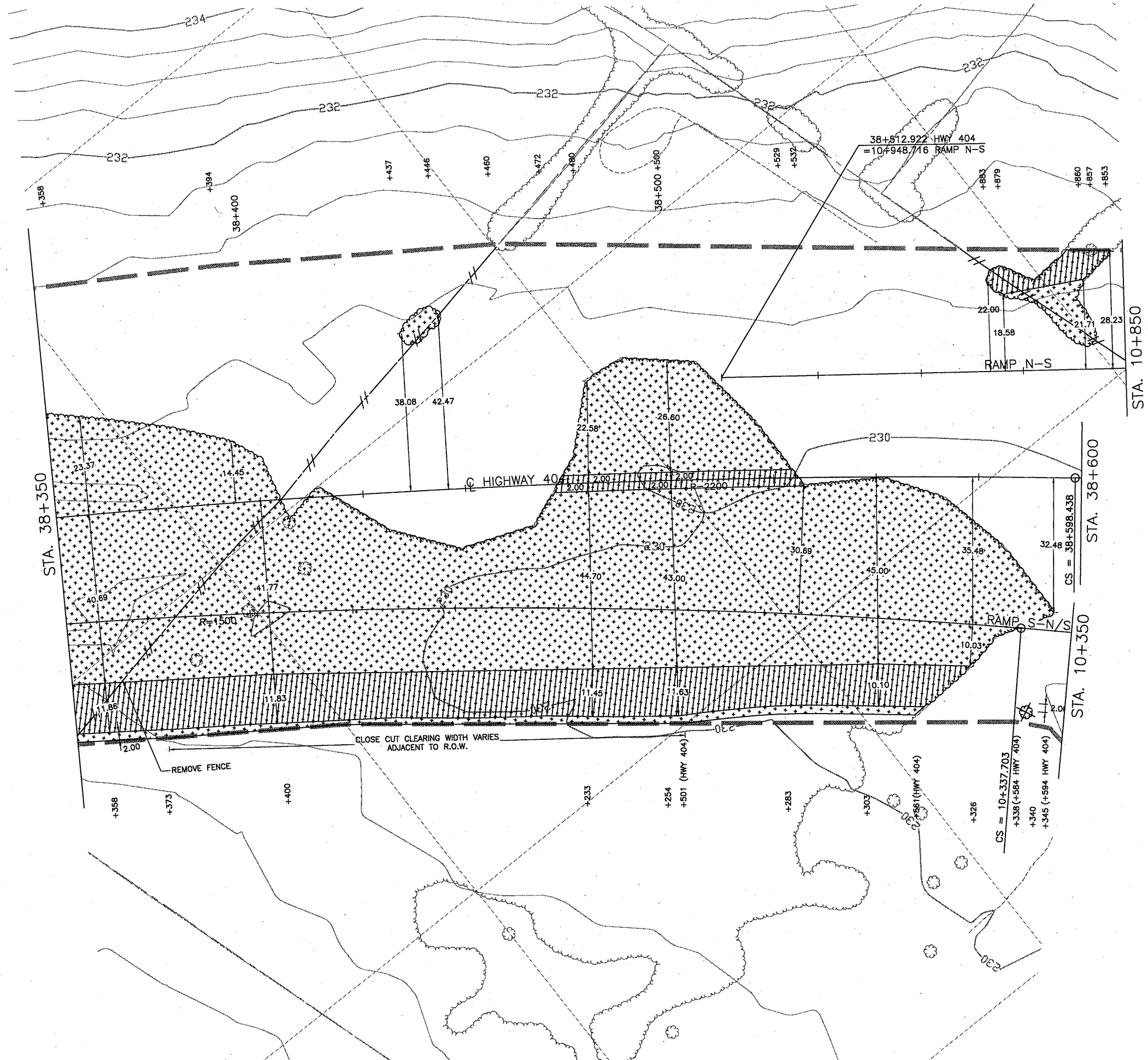
AECOM



SHEET
R-16

SCALE
2.5m 0 5m
Horizontal





METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS
 STA 38+350 TO STA 38+600
 Survey Revised

AECOM



SHEET
R-17

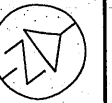
SCALE

2.5m 0 5m

Horizontal

METRIC

PLATE No
CONT
WP 2005-07-00



REMOVALS
STA 10+850 TO STA 10+500
Survey _____ Revised _____

SHEET
R-18


AECOM



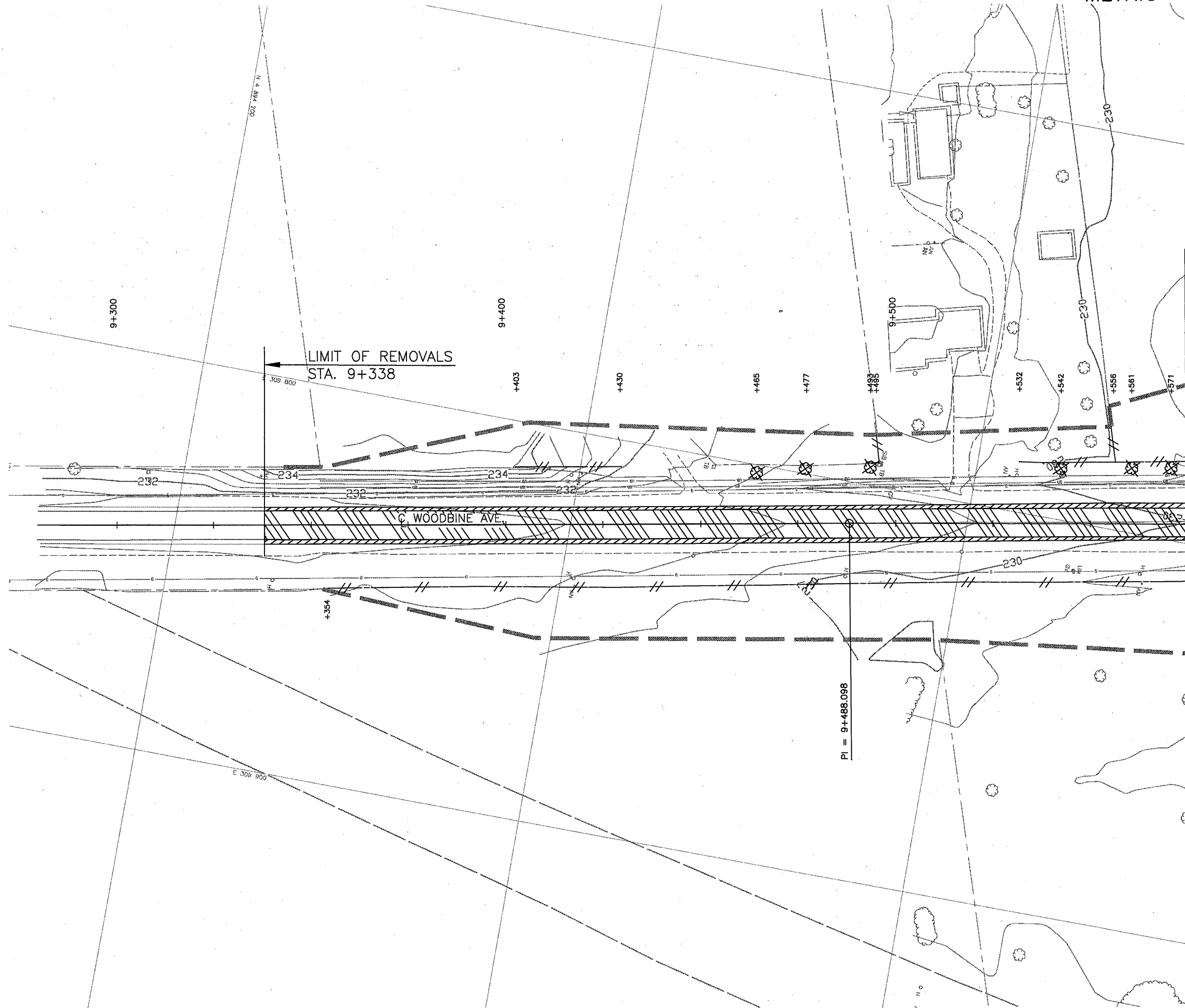
SCALE
2.5m 5m
Horizontal





METRIC

PLATE	No		
CONT			
WP	2005-07-00		
REMOVALS			
STA	10+350	TO STA	10+650
Survey	Revised		
AECOM			
			

SCALE
2.5m p 5m
Horizontal



METRIC

PLATE No	CONT WP	2005-07-00	
REMOVALS	STA 9+338	TO STA 9+575	SHEET R-20
Survey	Revised		
AECOM			
			

SCALE
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Horizontal

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PLOT DATE: 9/28/2010 3:55 PM
SAVE DATE: 5/7/2010 3:55 PM

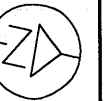
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

PLATE No
CONT
WP 2005-07-00

REMOVALS
STA 9+925 TO STA 10+275
Survey Revised

AECOM



SHEET
R-22

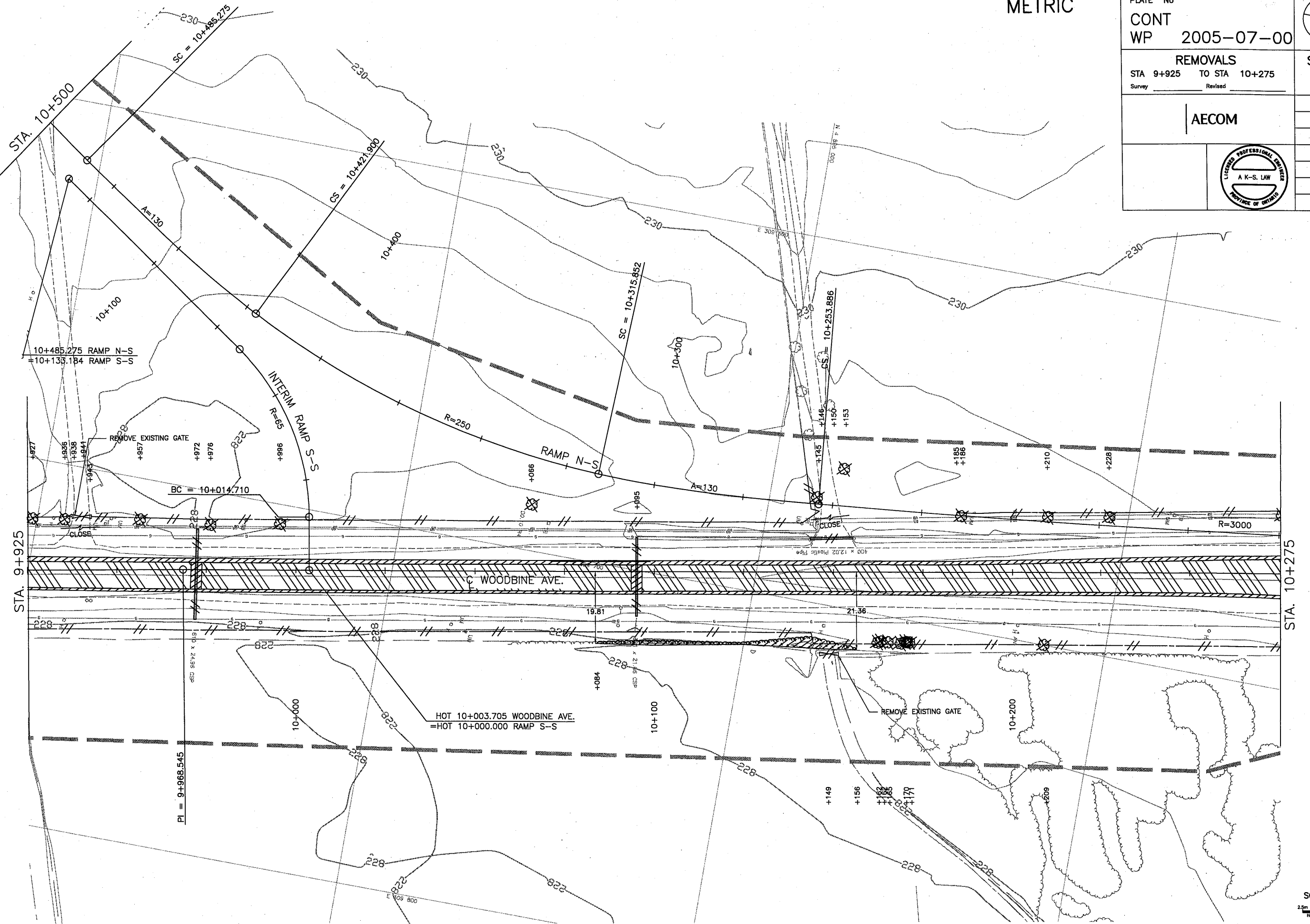


PLATE No
CONT
WP 2005-07-00

SHEET
R-23

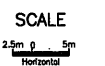


PLATE No
CONT
WP 2005-07-00



REMOVALS

STA 10+625 TO STA 10+790

Survey _____ Revised _____

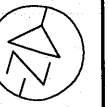
A circular seal for a Licensed Professional Engineer in the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the name "A K-S. LAW" is written.



DRAWING NAME: 2538-199-00_CT-REM-24.dwg
SAVED BY: mazzafferro
SAVE DATE: 5/7/2010 3:58 PM
PLOT DATE: 9/28/2010 3:55 PM

MINISTRY OF TRANSPORTATION, ONTARIO

PLATE No
CONT
WP 2005-07-00



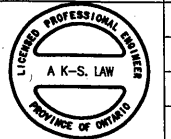
REMOVALS

STA 9+251 TO STA 9+550

Survey _____ Revised _____

SHEET
R-25

AECOM



9+200

 $9+300$

9+400

9+500

LIMIT OF REMOVALS
STA. 9+251

+251

$$PI = 9 + 258.609$$

SIA. 9+550

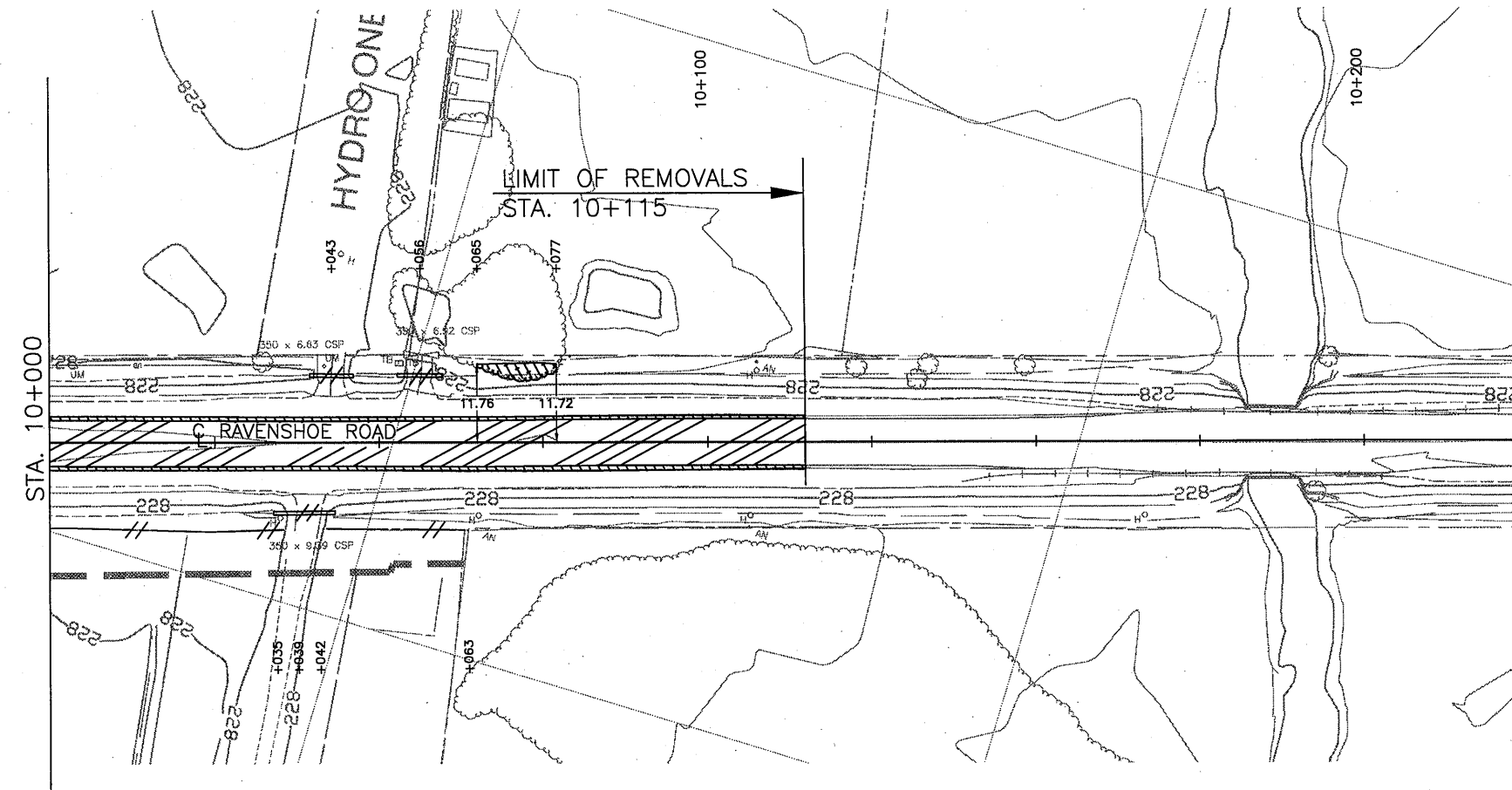
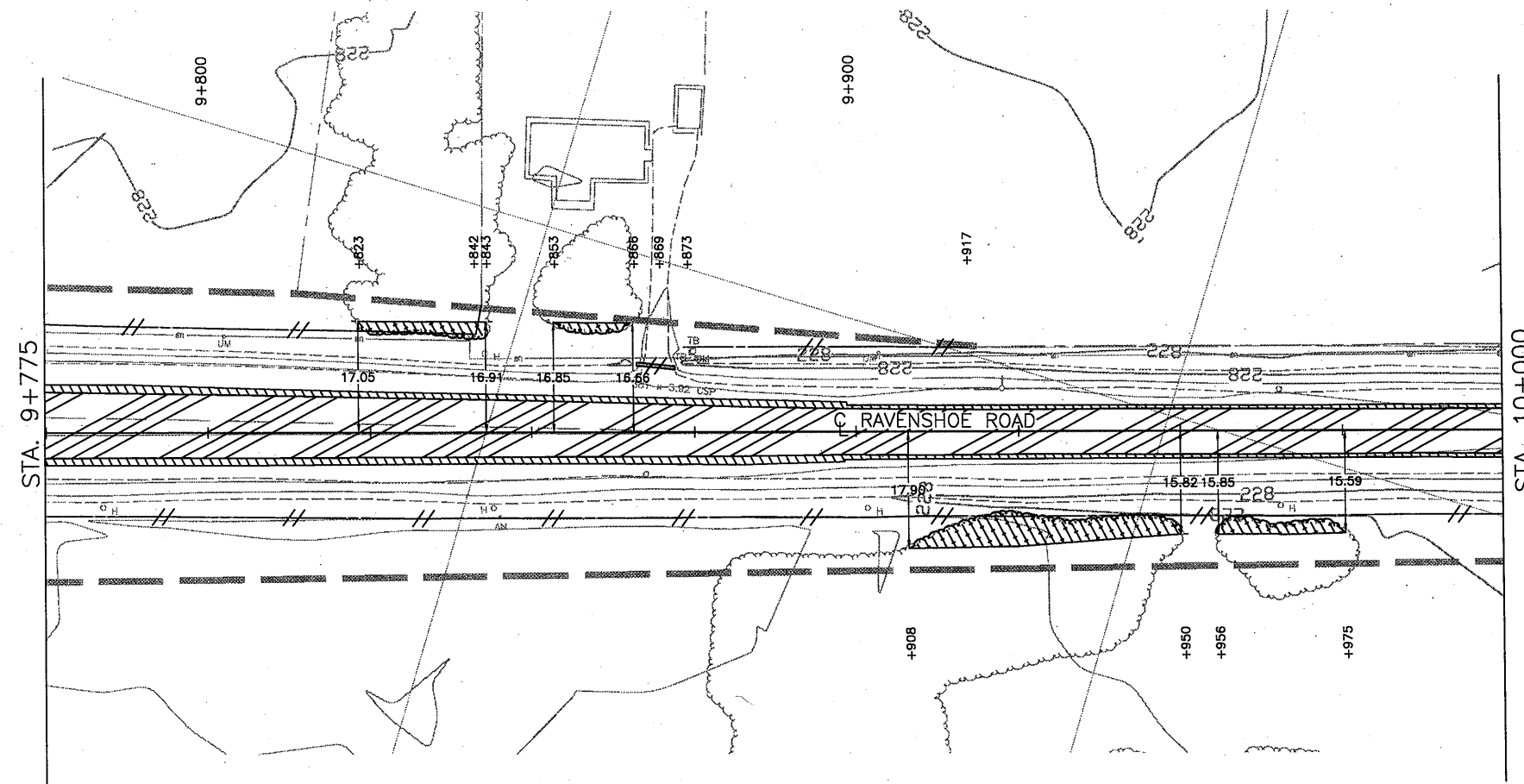
SCALE

0 5m












Horizontal

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 SAVED BY: mazzafarrom
 SAVE DATE: 5/7/2010 3:58 PM
 PLOT DATE: 9/28/2010 3:56 PM

MINISTRY OF TRANSPORTATION ONTARIO
99-0-707 98-05



LEGEND

-  MISCELLANEOUS PAVING
-  TOPSOIL AND SODDING
-  RIPRAP
-  RIPRAP - (OPSD 810.020)
-  CONCRETE
-  INTERLOCKING CONCRETE PAVERS
-  ROCK FLOW CHECK DAM - (OPSD 219.210)
-  STRAW BALE - (OPSD 219.180)
-  BARRIER FOR TREE PROTECTION (OPSD 220.01)
-  HEAVY DUTY SILT FENCE (OPSD 219.130)
-  SNOW FENCE

NOTE

1. CHAIN LINK FENCE TO BE INSTALLED AT 25m - 5m GAP - 25m CONFIGURATION. SEE MISCELLANEOUS DETAIL SHEET.

METRIC

PLATE No

CONT

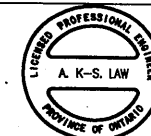
WP 2005-07-00

NEW CONSTRUCTION

STA 33+450 TO STA 33+800

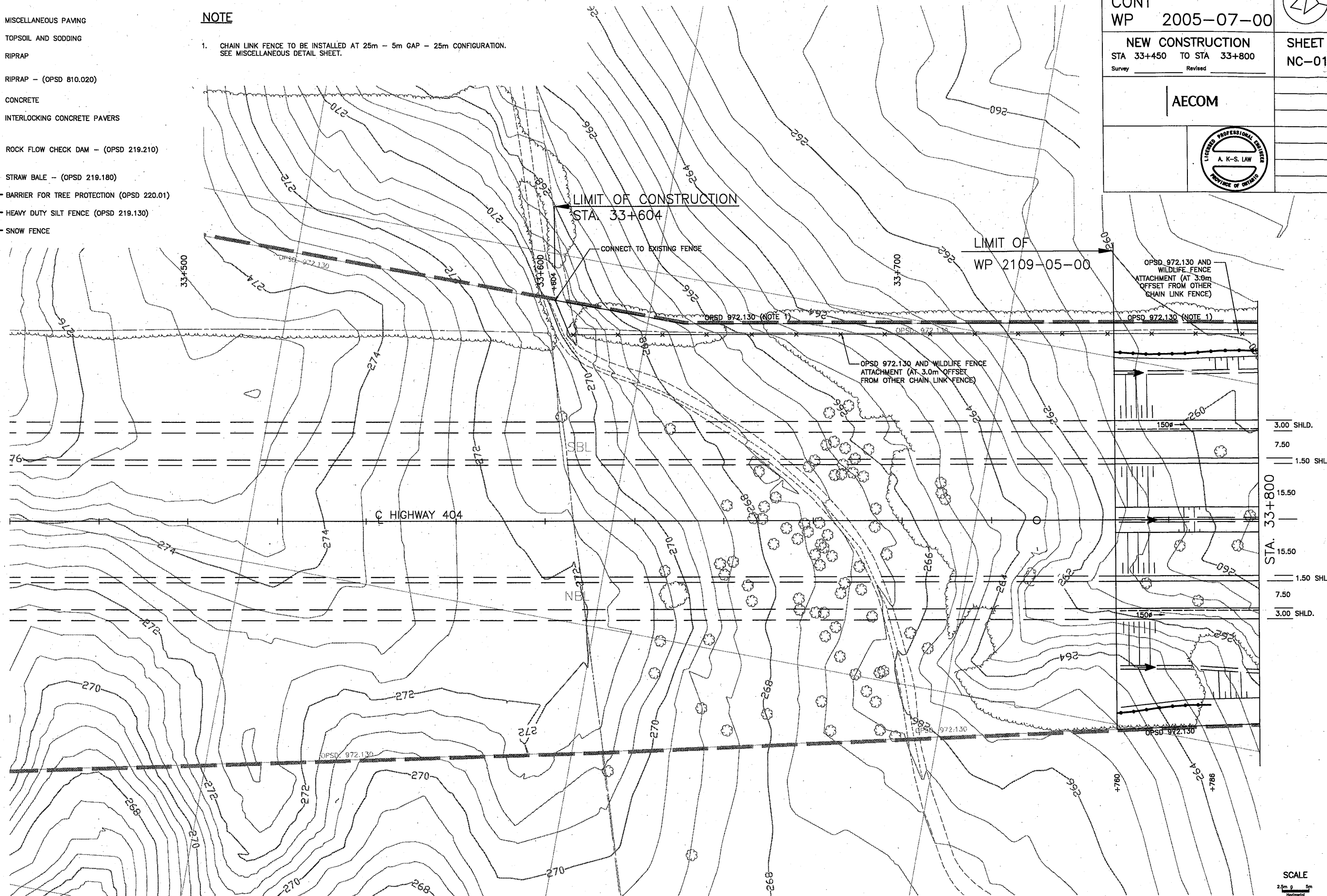
Survey Revised

AECOM



SHEET

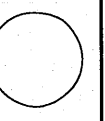
NC-01



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 SAVE DATE: 7/28/2010 10:57 AM
 PLOT DATE: 9/29/2010 8:42 AM
 PR-D-797 88-05
 MINISTRY OF TRANSPORTATION, ONTARIO

METRIC

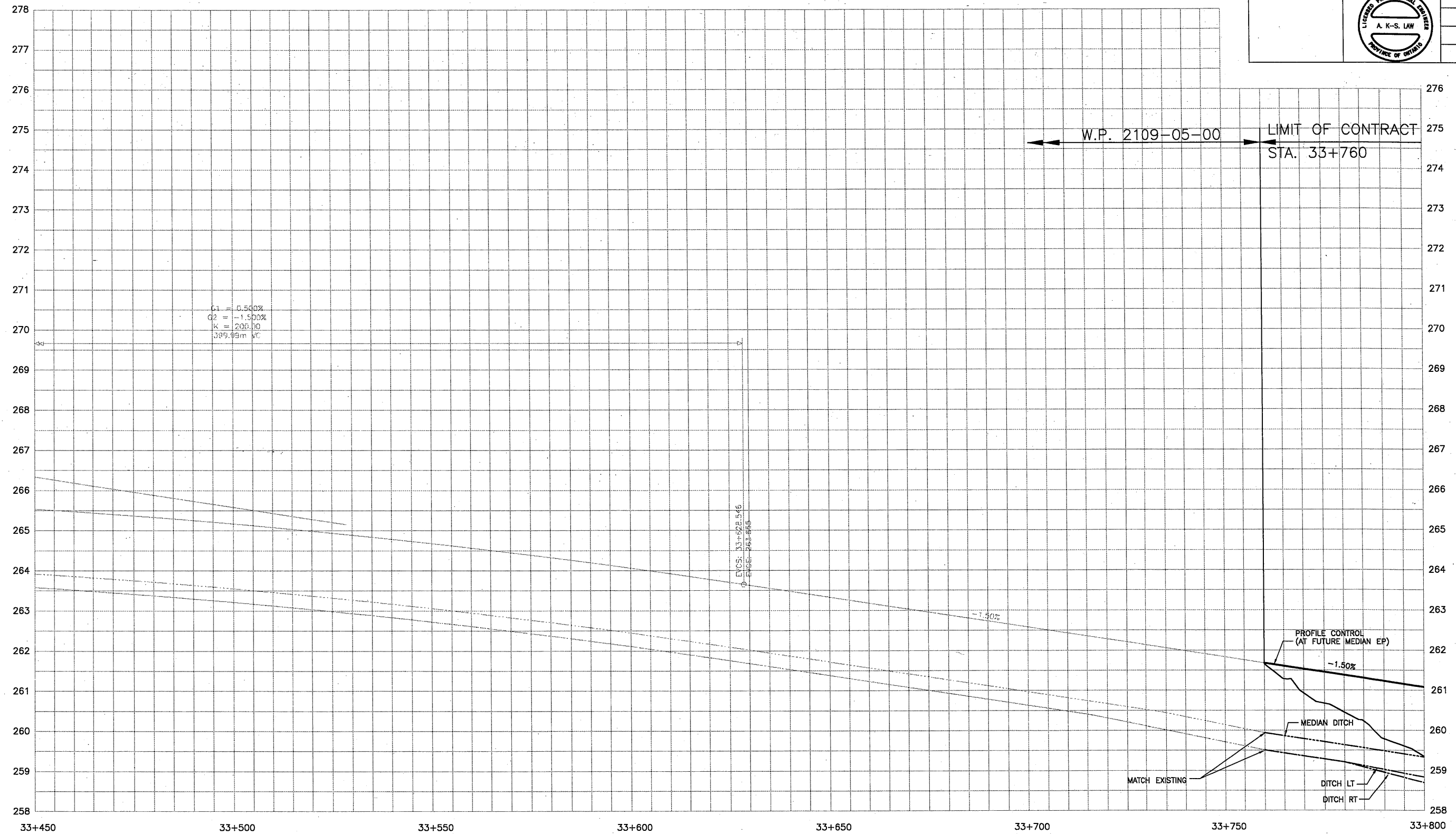
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 33+450 TO STA 33+800
Survey Revised

SHEET
NC-02

AECOM



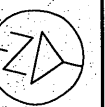
SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

METRIC

PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 33+800 TO STA 34+150
Survey _____ Revised _____

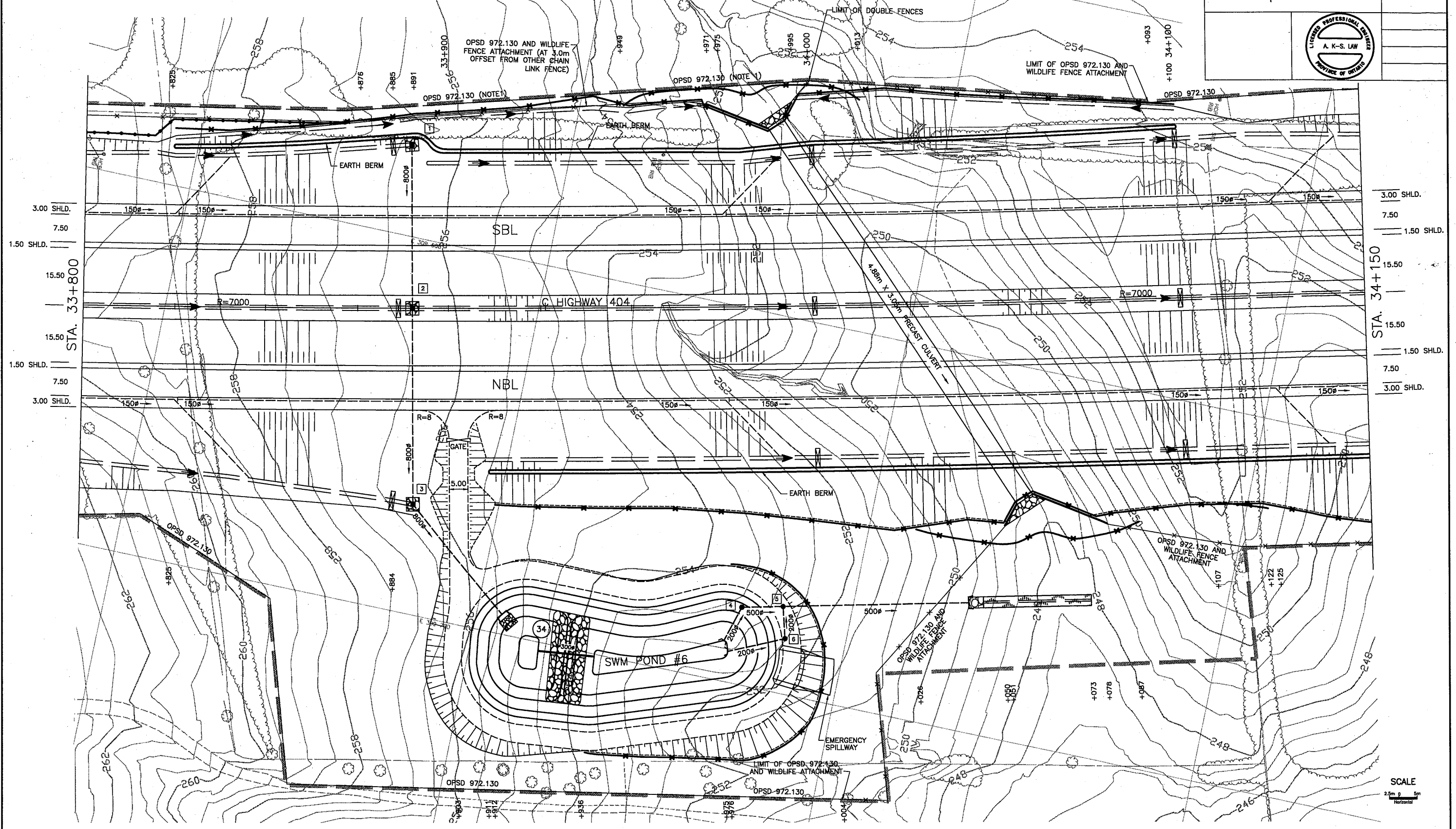
AECOM




SHEET
NC-03

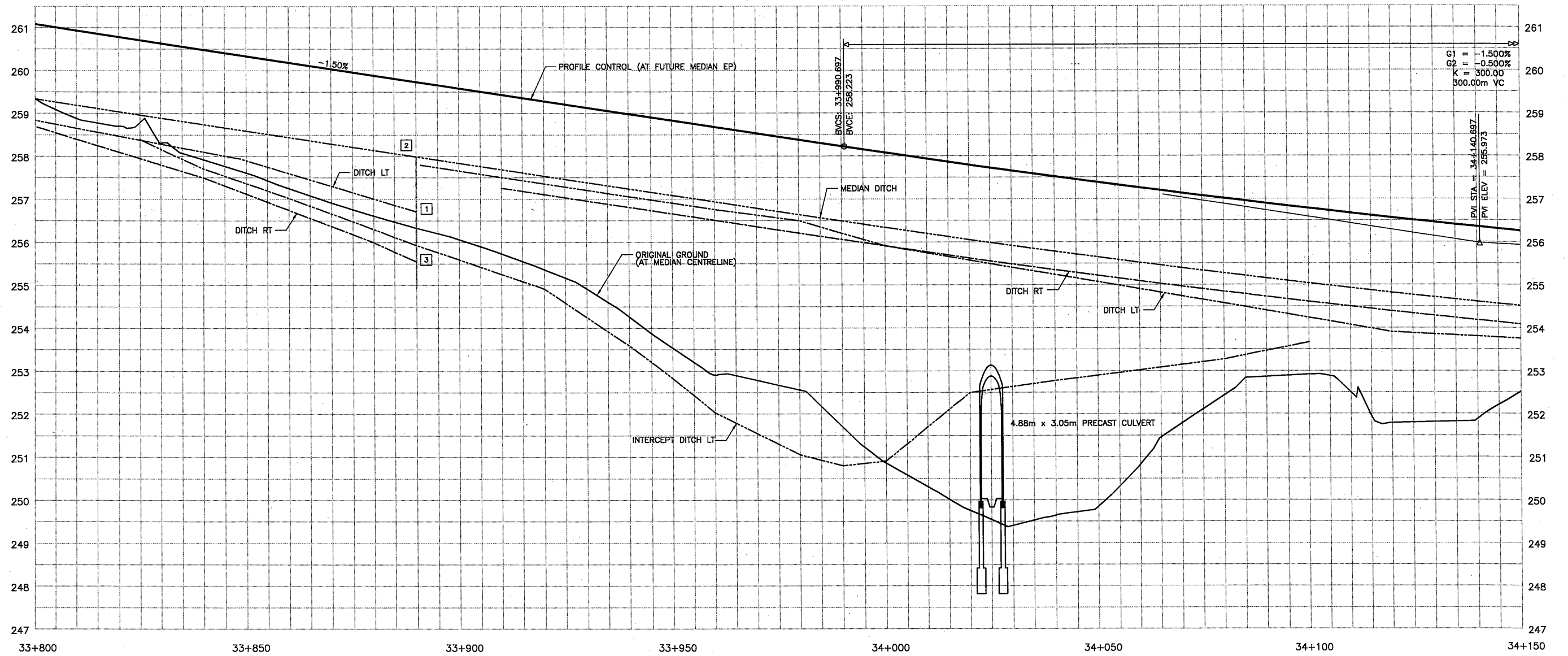
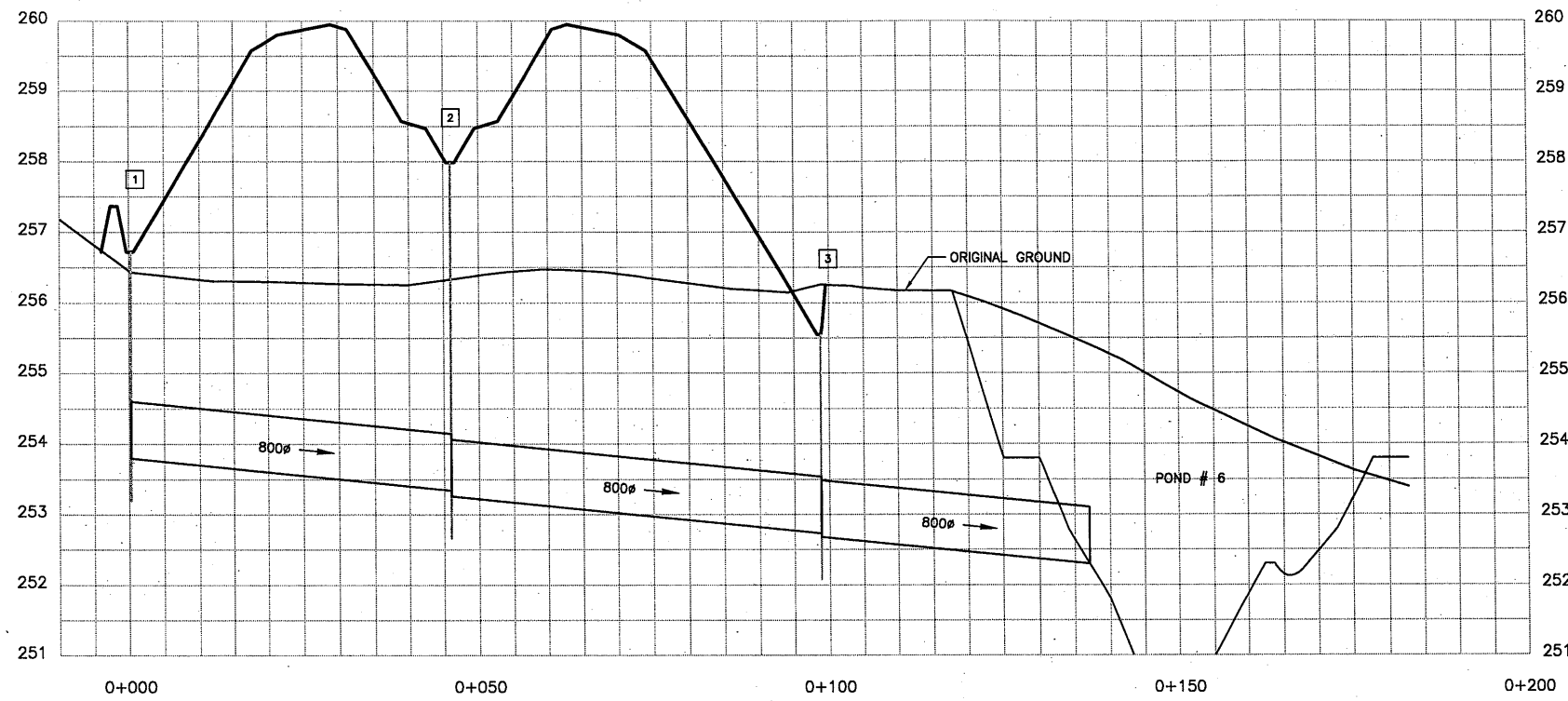
NOTE

1. CHAIN LINK FENCE TO BE INSTALLED AT 25m - 5m GAP - 25m CONFIGURATION.
SEE MISCELLANEOUS DETAIL SHEET.



METRIC

PLATE No		SHEET NC-04
CONT WP 2005-07-00		
PROFILES		
STA 33+800	TO STA 34+150	
Survey	Revised	
AECOM		
		



SCALE
 2.5m 5m
 Horizontal
 0.25m 0.5m
 Vertical

DRAWING NAME: 2538-199-00-CT-NC-05.dwg
SAVED BY: mazzaferron
PLOT DATE: 9/29/2010 11:55 AM
PLOT DATE: 9/29/2010 8:45 AM

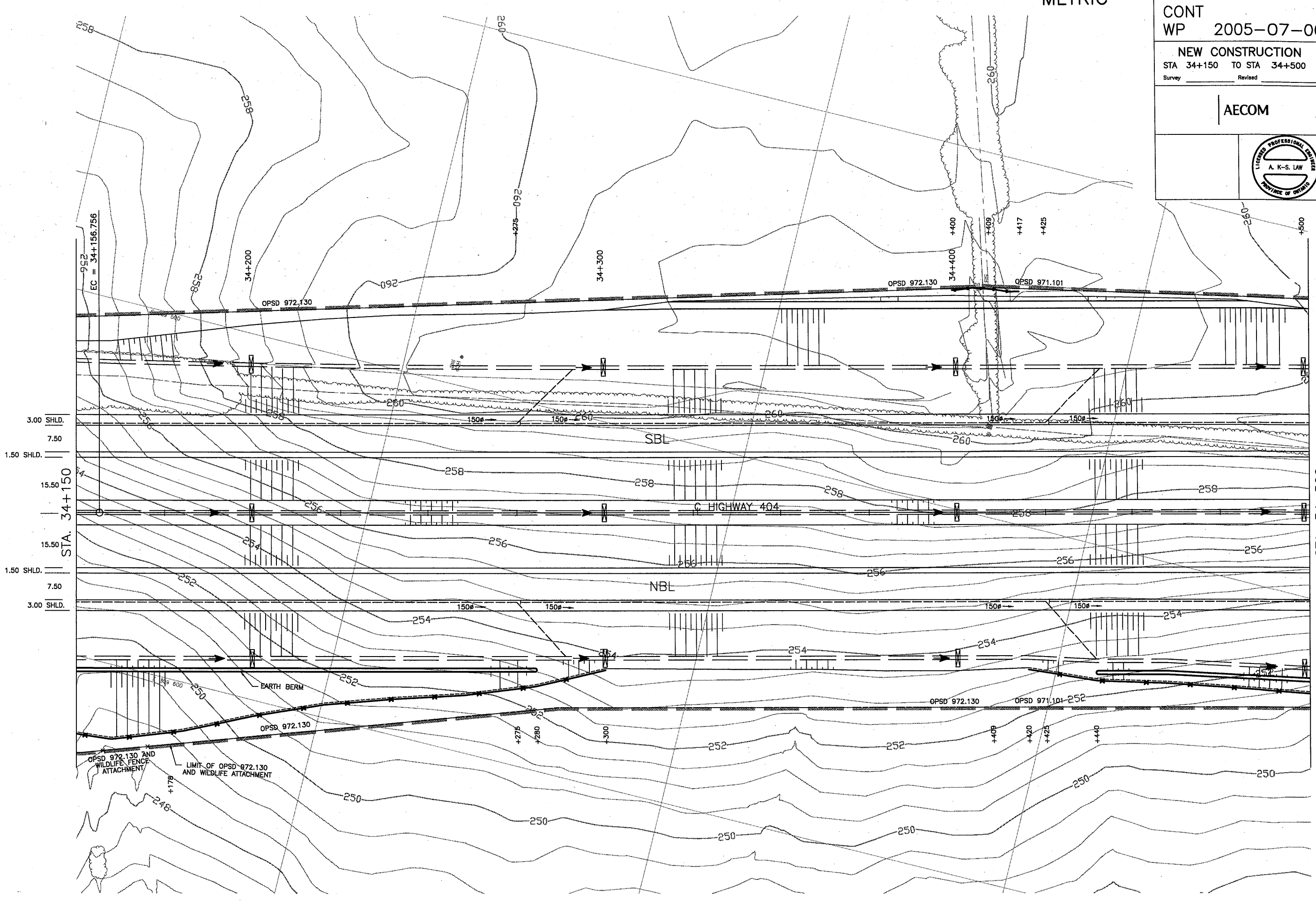
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

PLATE No
CONT
WP 2005-07-00
NEW CONSTRUCTION
STA 34+150 TO STA 34+500
Survey _____ Revised _____

SHEET
NC-05

AECOM



3.00 SHLD.
7.50
1.50 SHLD.
15.50
15.50
1.50 SHLD.
7.50
3.00 SHLD.

STA. 34+500

SCALE
2.5m 0 5m
Horizontal

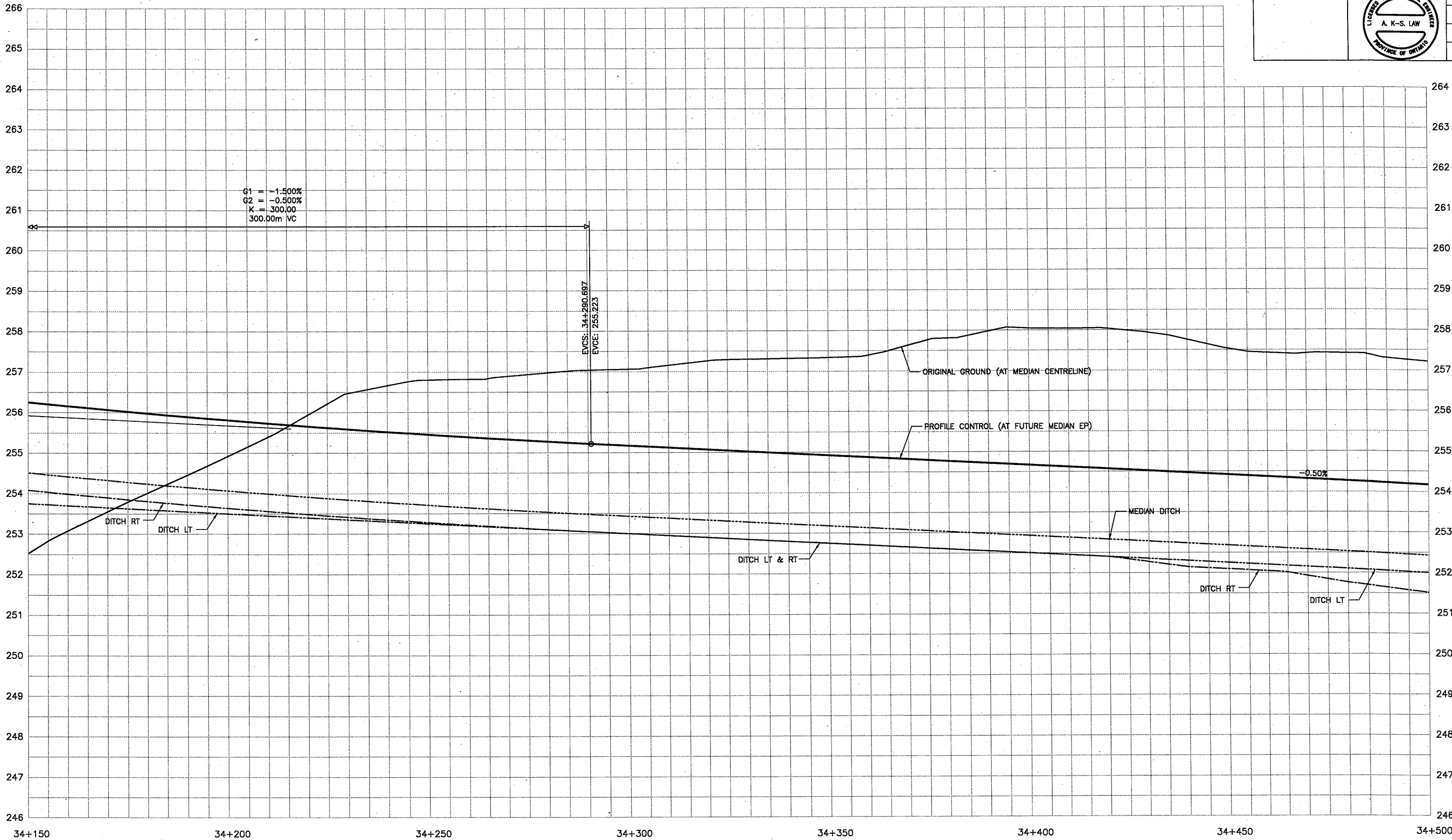
METRIC

PLATE No
CONT
WP 2005-07-00

SHEET
NC-06

PROFILES
STA 34+150 TO STA 34+500
Survey Revised

AECOM



SCALE
2.5m 5m
Horizontal
0.25m 0.5m
Vertical

METRIC

PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 34+500 TO STA 34+850
Survey _____ Revised _____

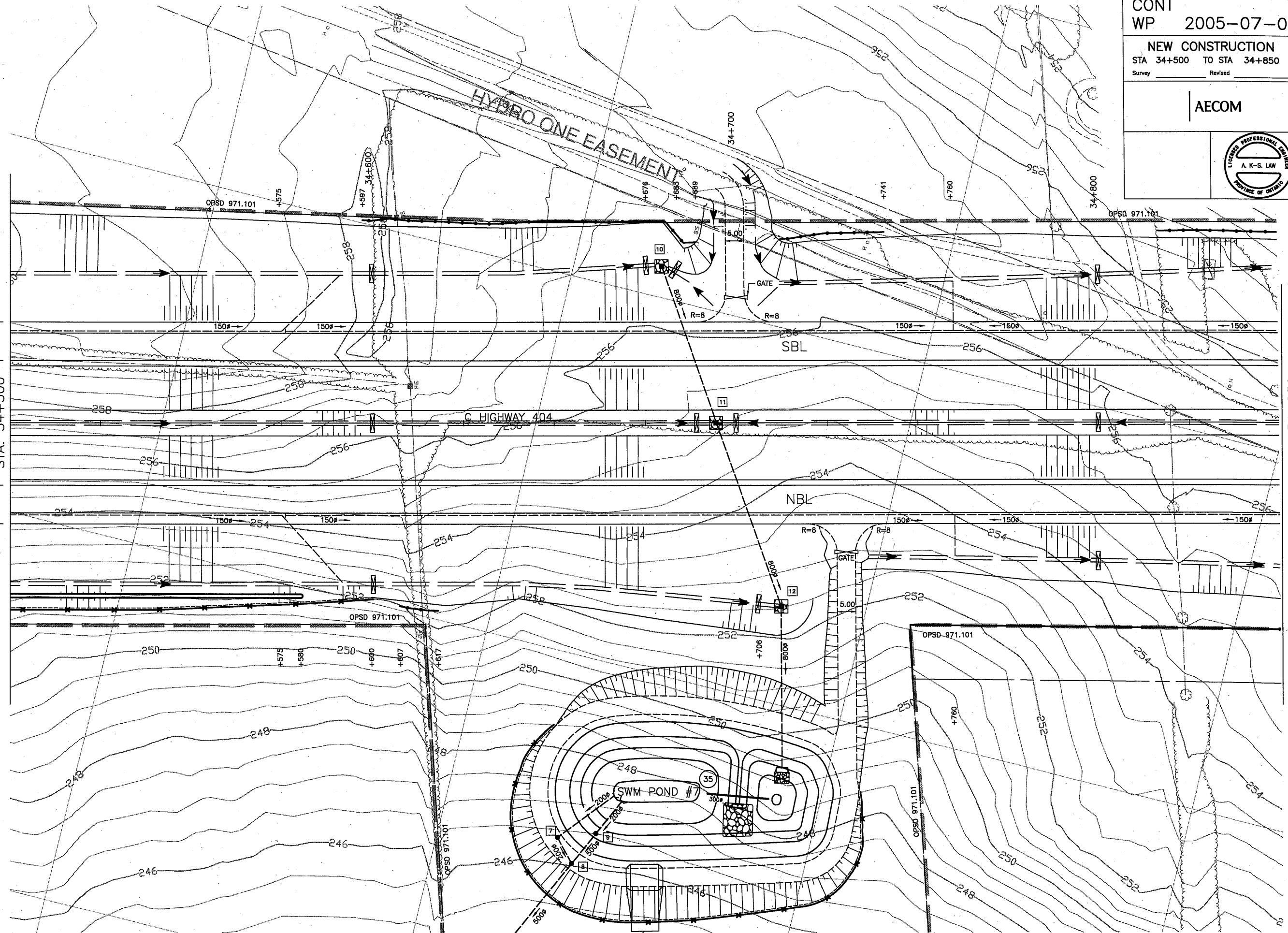
AECOM



SHEET
NC-07

3.00 SHLD.
7.50
1.50 SHLD.
15.50
STA. 34+500
15.50
1.50 SHLD.
7.50
3.00 SHLD.

3.00 SHLD.
7.50
1.50 SHLD.
15.50
STA. 34+850
15.50
1.50 SHLD.
7.50
3.00 SHLD.



SCALE
2.5m 5m
Horizontal

STA. 34+500

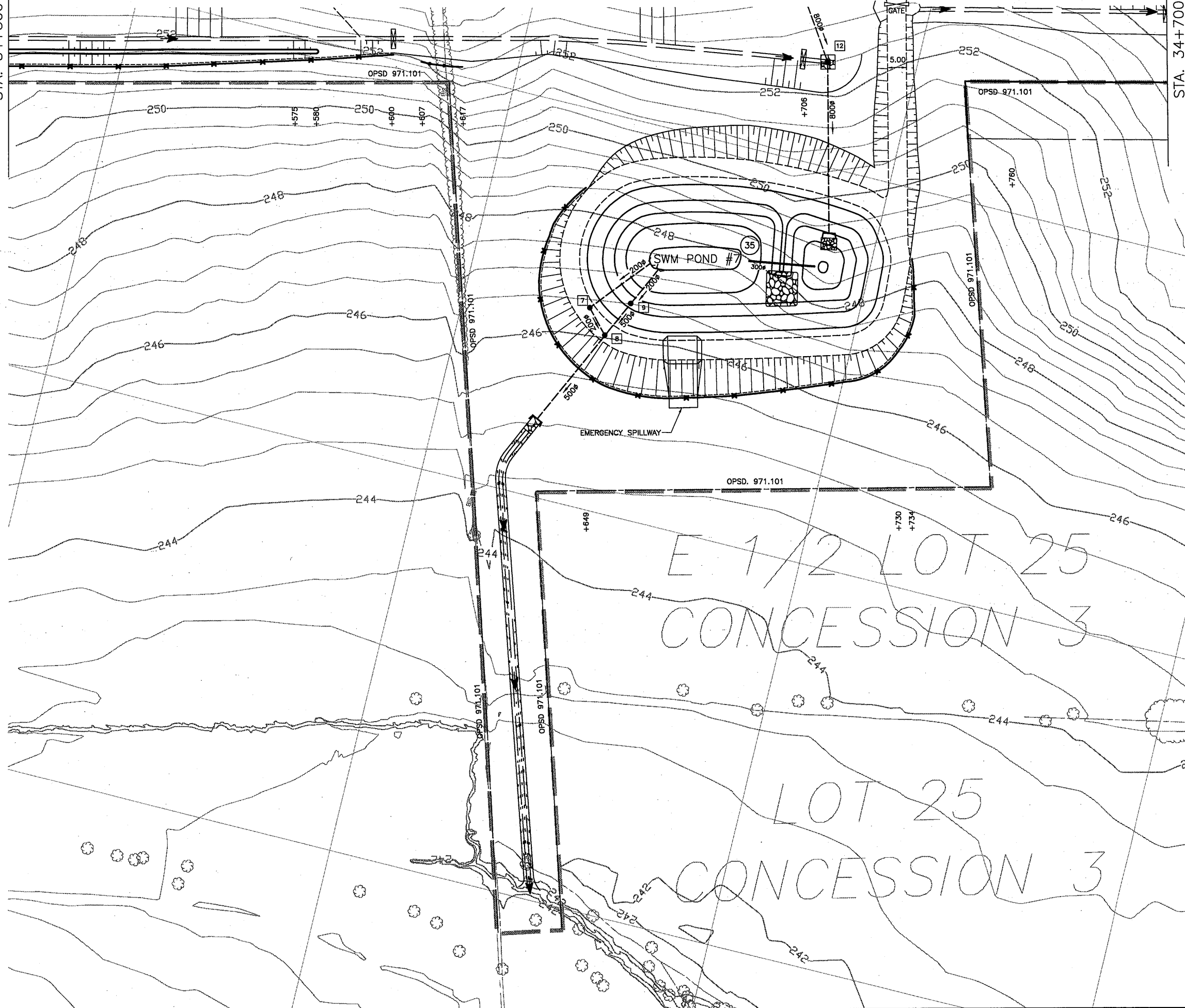


PLATE No		SHEET NC-08
CONT WP 2005-07-00		
NEW CONSTRUCTION STA 34+500 TO STA 34+700 Survey _____ Revised _____		
AECOM		

SCALE
2.5m 0 5m
Horizontal

METRIC

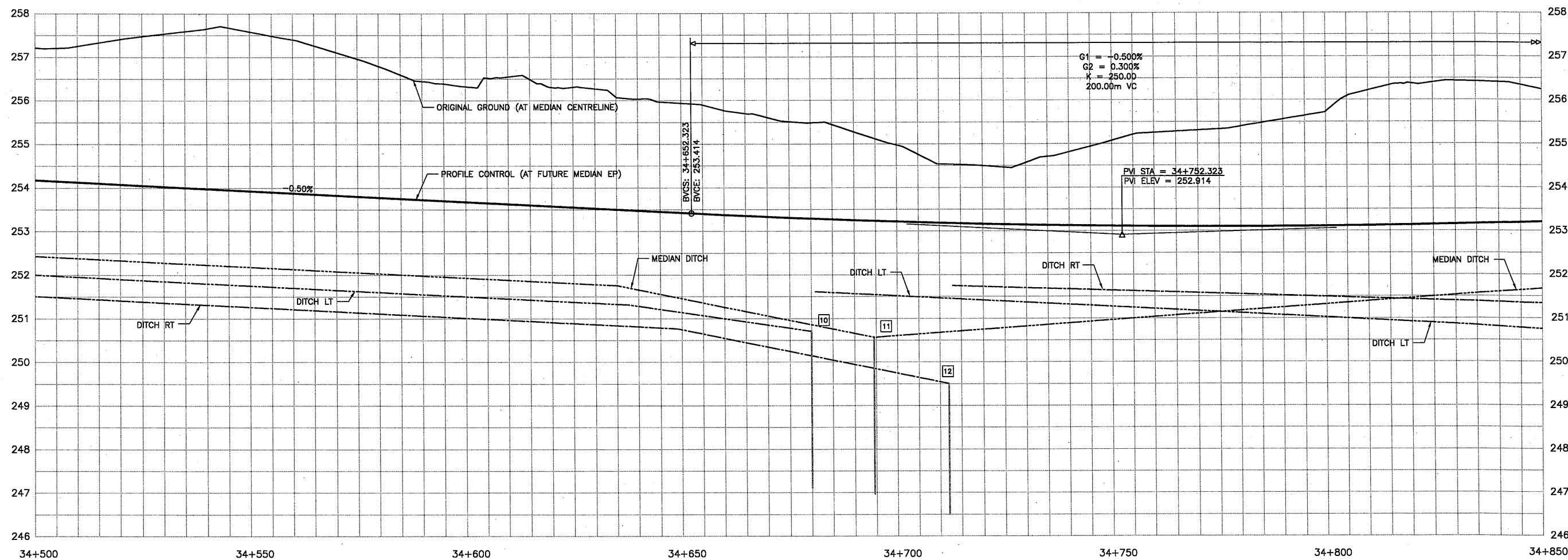
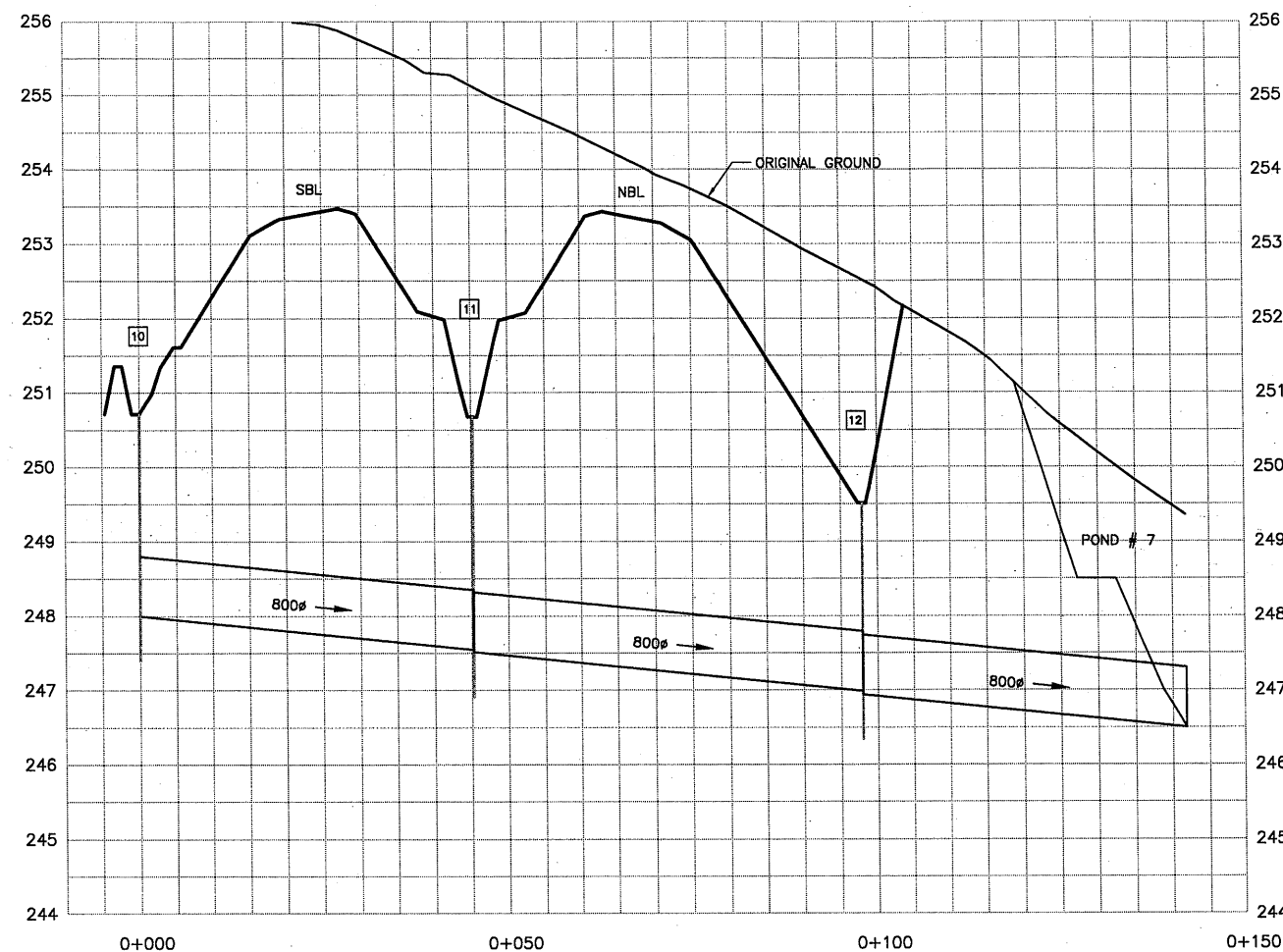
PLATE No
CONT
WP 2005-07-00

PROFILES
STA 34+500 TO STA 34+850
Survey _____ Revised _____

AECOM



SHEET
NC-09



SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

DRAWING NAME: 2538-198-00 CT-NC-10.dwg
SAVED BY: mrazdewicz
DATE: 5/19/2010 5:32 PM
PLOT DATE: 9/29/2010 8:46 AM

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

POINT	STATIONING	OFFSET	ELEVATION
1	9+900	3.75 RT	248.94
2	9+900	0.0	249.02
3	9+900	3.75 LT	248.94
4	9+909	7.08 RT	249.00
5	9+909	0.0	249.14
6	9+909	7.08 LT	249.00
7	9+917	13.43 RT	249.04
8	9+917	0.0	249.24
9	9+917	13.43 LT	249.04
10	9+927	14.65 RT	249.14
11	9+927	0.0	249.36
12	9+927	14.65 LT	249.14
13	9+939	0.0	249.18

METRIC

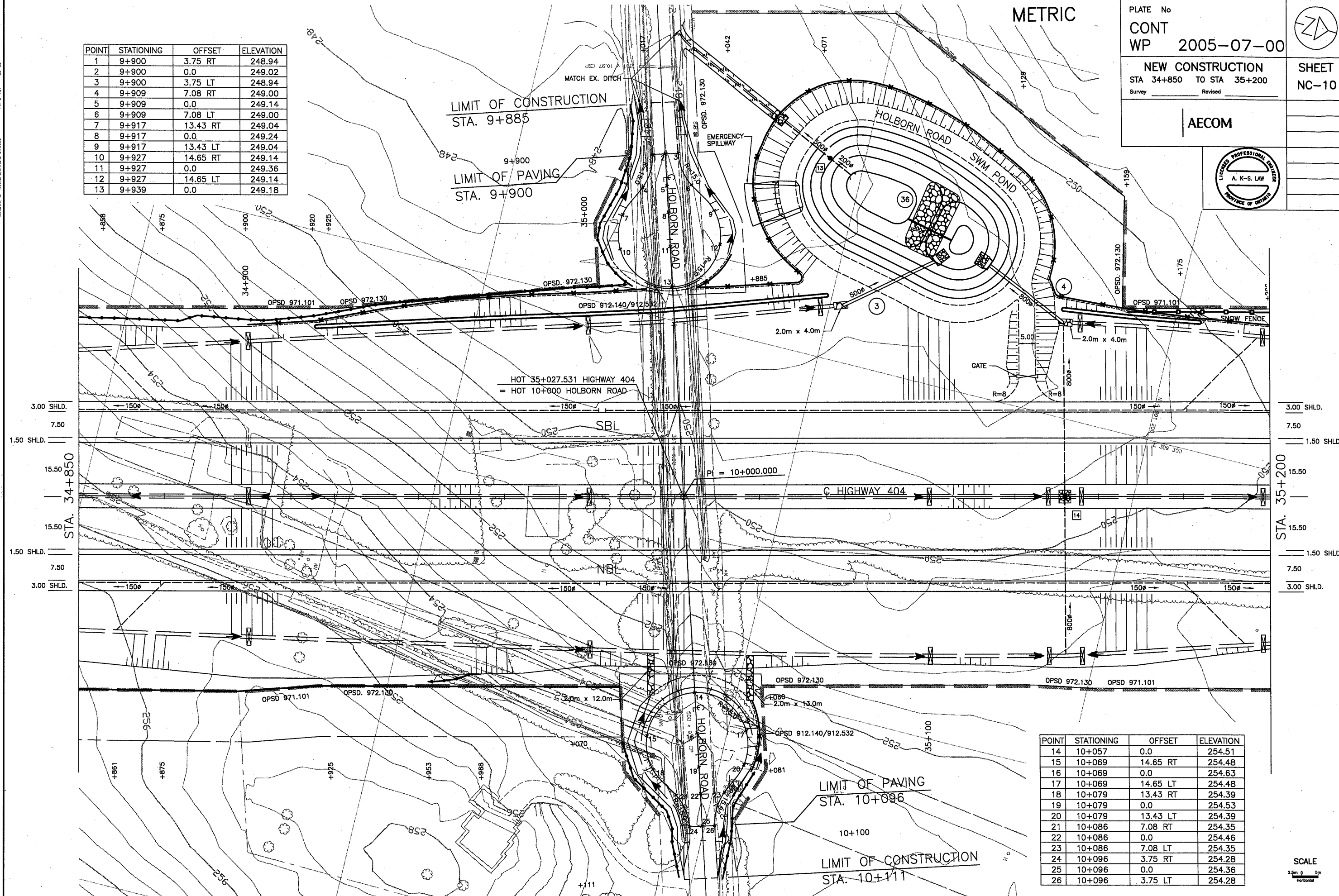
PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 34+850 TO STA 35+200
Survey _____ Revised _____

AECOM



SHEET
NC-10

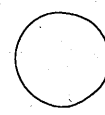


POINT	STATIONING	OFFSET	ELEVATION
14	10+057	0.0	254.51
15	10+069	14.65 RT	254.48
16	10+069	0.0	254.63
17	10+069	14.65 LT	254.48
18	10+079	13.43 RT	254.39
19	10+079	0.0	254.53
20	10+079	13.43 LT	254.39
21	10+086	7.08 RT	254.35
22	10+086	0.0	254.46
23	10+086	7.08 LT	254.35
24	10+096	3.75 RT	254.28
25	10+096	0.0	254.36
26	10+096	3.75 LT	254.28

SCALE
2.5m 0 5m
Horizontal

METRIC

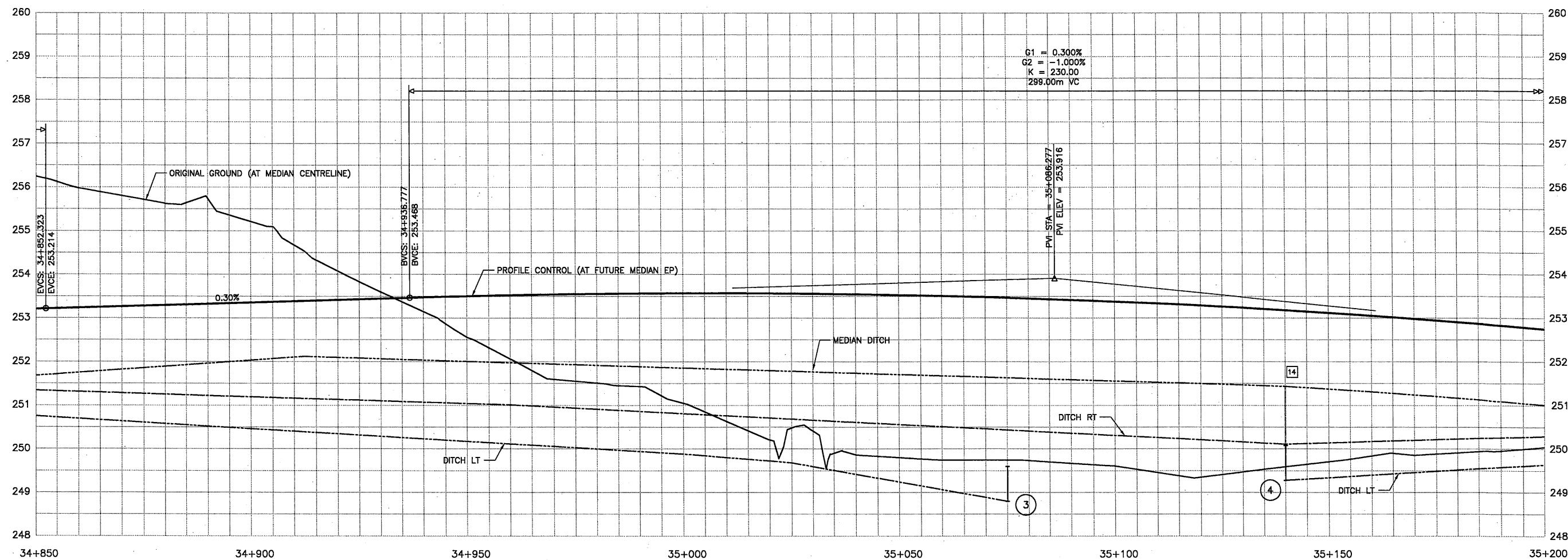
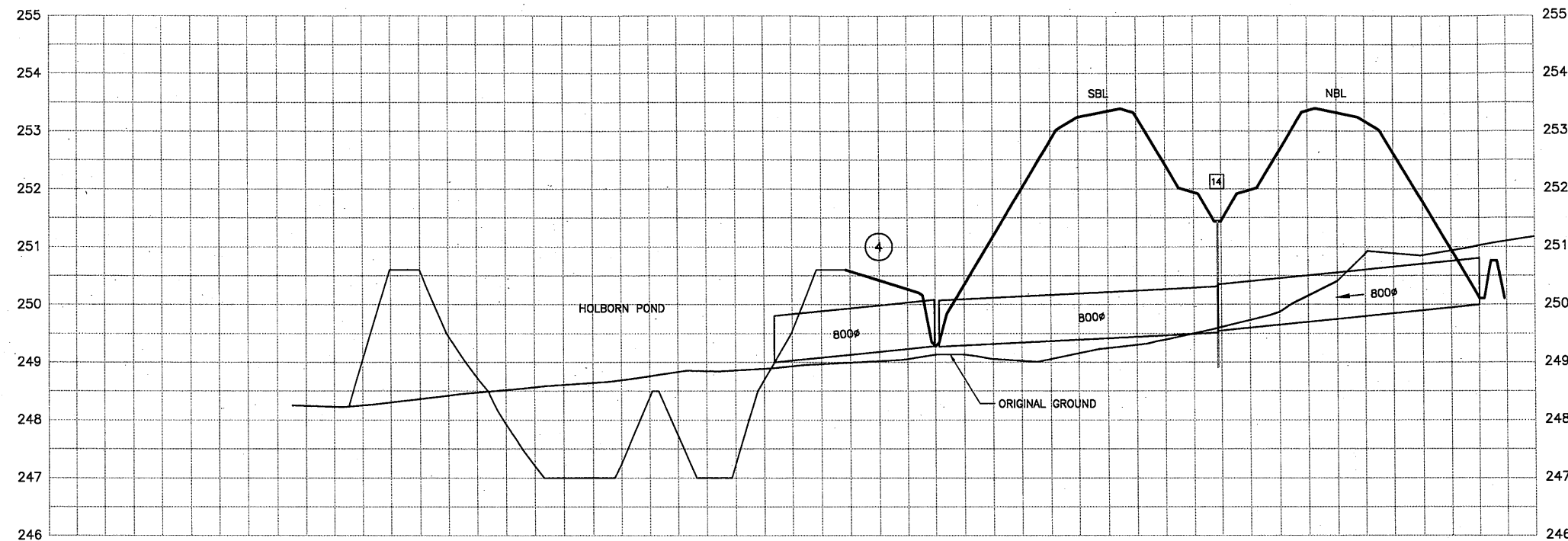
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 34+850 TO STA 35+200
Survey _____ Revised _____

SHEET
NC-11

AECOM



SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

DRAWING NAME: 253B-195-00-07-NC-12.dwg
SAVED BY: mazzferrom
PLOT DATE: 9/29/2010 10:47 AM
PLOT DATE: 9/29/2010 9:06 AM

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

METRIC

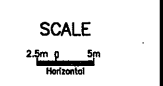
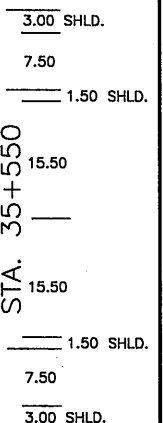
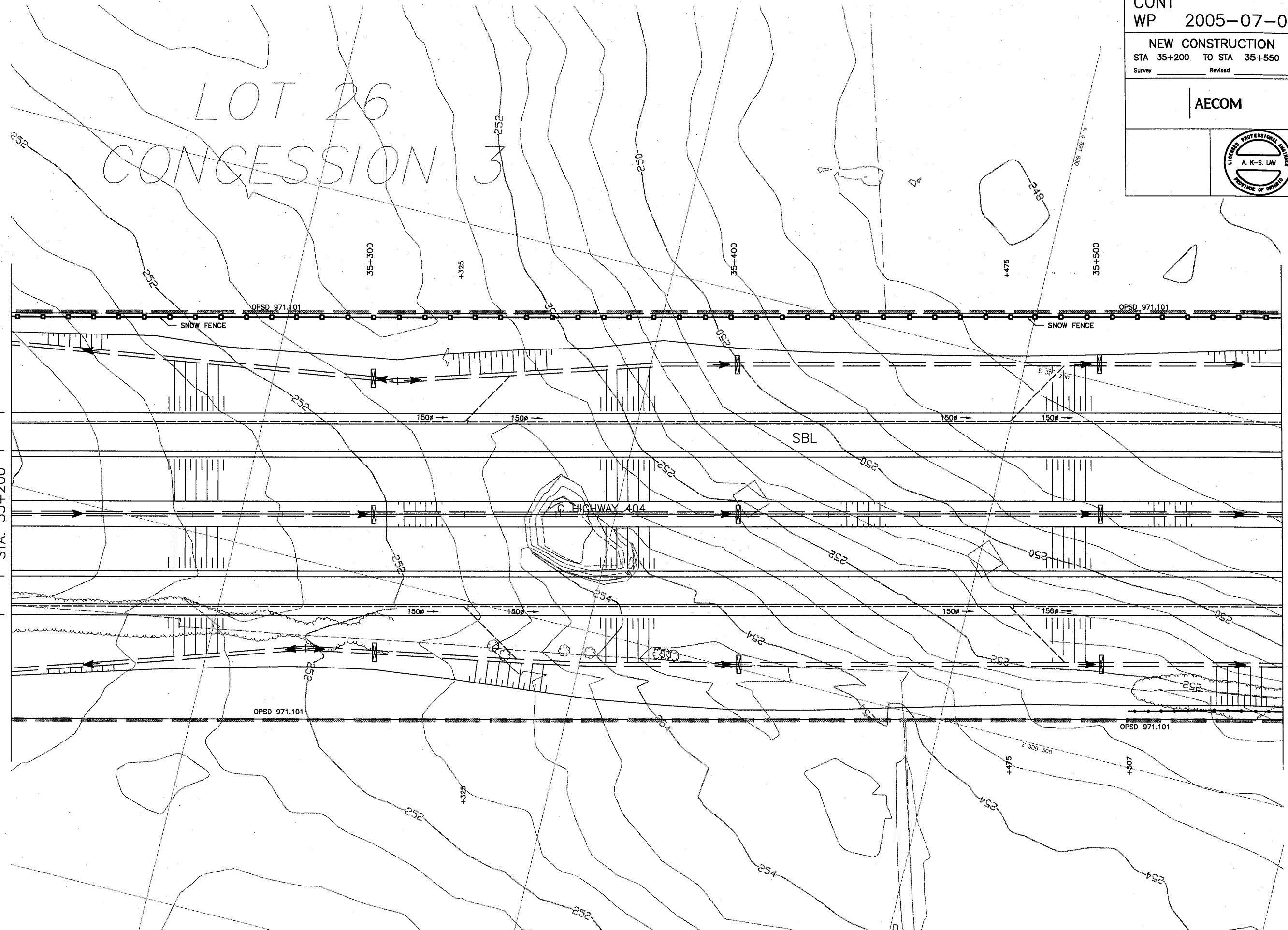
PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 35+200 TO STA 35+550
Survey Revised

AECOM



SHEET
NC-12



METRIC

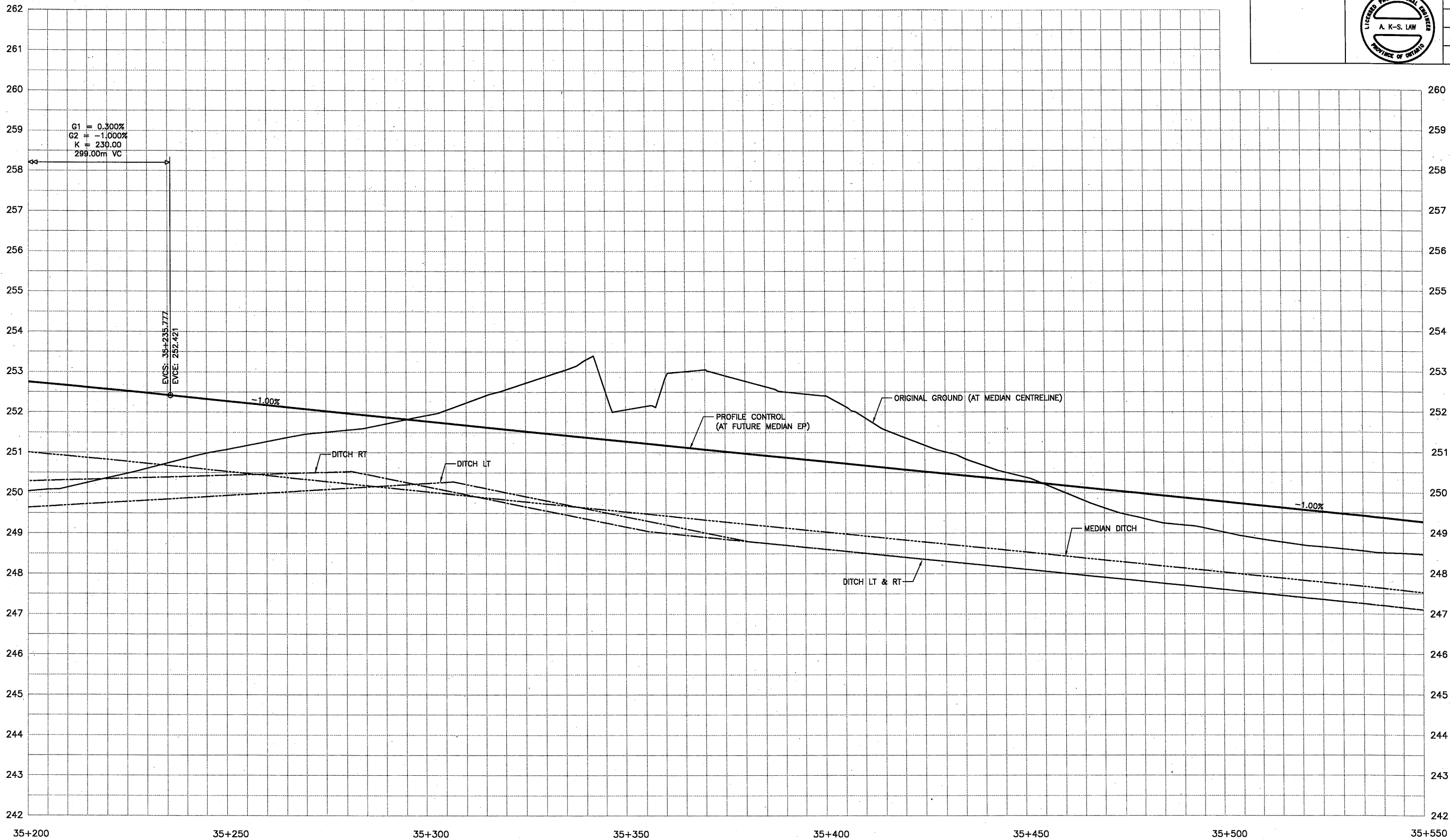
PLATE No
CONT
WP 2005-07-00

PROFILES
STA 35+200 TO STA 35+550
Survey _____ Revised _____

AECOM



SHEET
NC-13



SCALE
2.5m 0 5m
Horizontal
0.25m 0 0.5m
Vertical

DRAWING NAME: 2538-198-00-CT-NC-14.dwg
SAVED BY: mazzaferron
PLOT DATE: 9/29/2010 2:07 PM
PLOT DATE: 9/29/2010 8:47 AM

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

METRIC

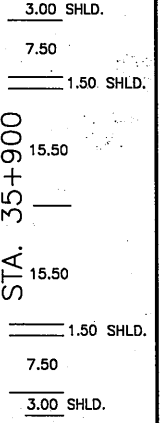
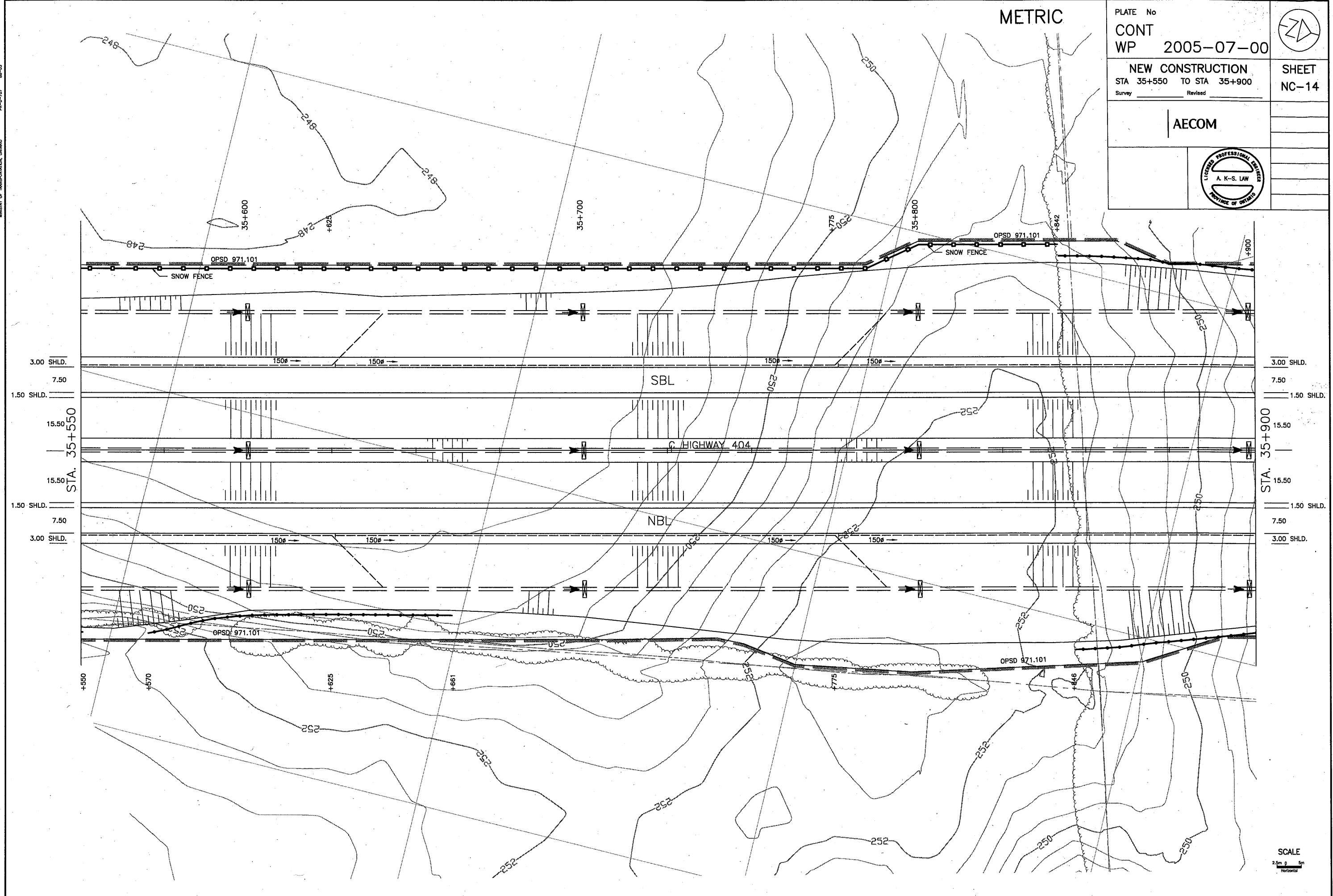
PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 35+550 TO STA 35+900
Survey _____ Revised _____

AECOM



SHEET
NC-14



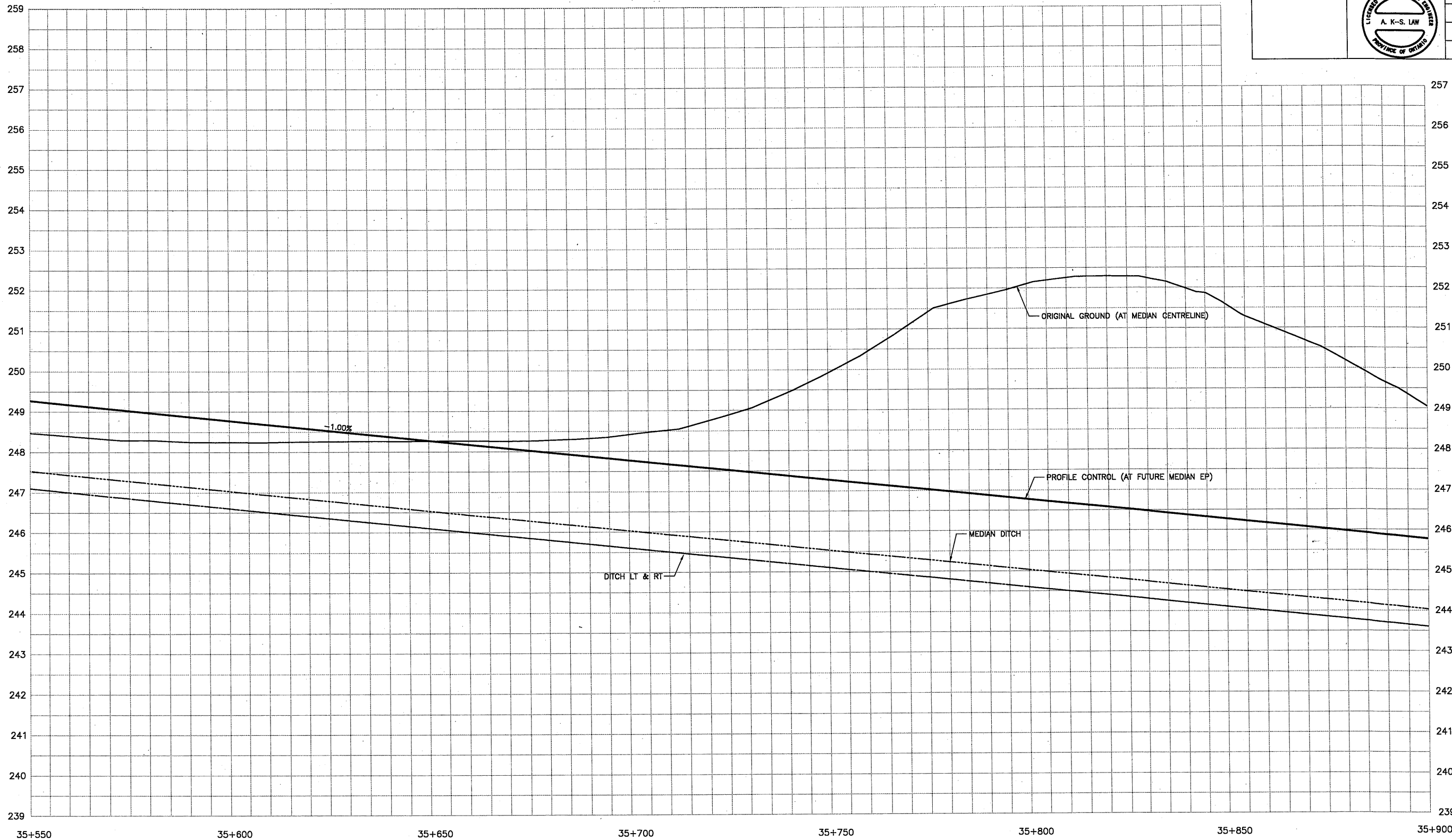
METRIC

PLATE No
CONT
WP 2005-07-00

SHEET
NC-15

PROFILES
STA 35+550 TO STA 35+900
Survey Revised

AECOM



SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

DRAWING NAME: 2538-199-00-CT-NC-16.dwg
SAVED BY: mazzaferron
DATE: 1/23/2010 11:02 AM
PLOT DATE: 9/29/2010 8:47 AM

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

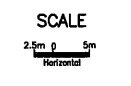
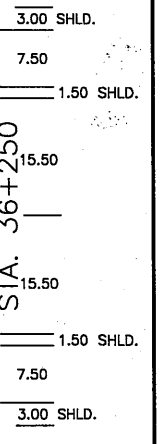
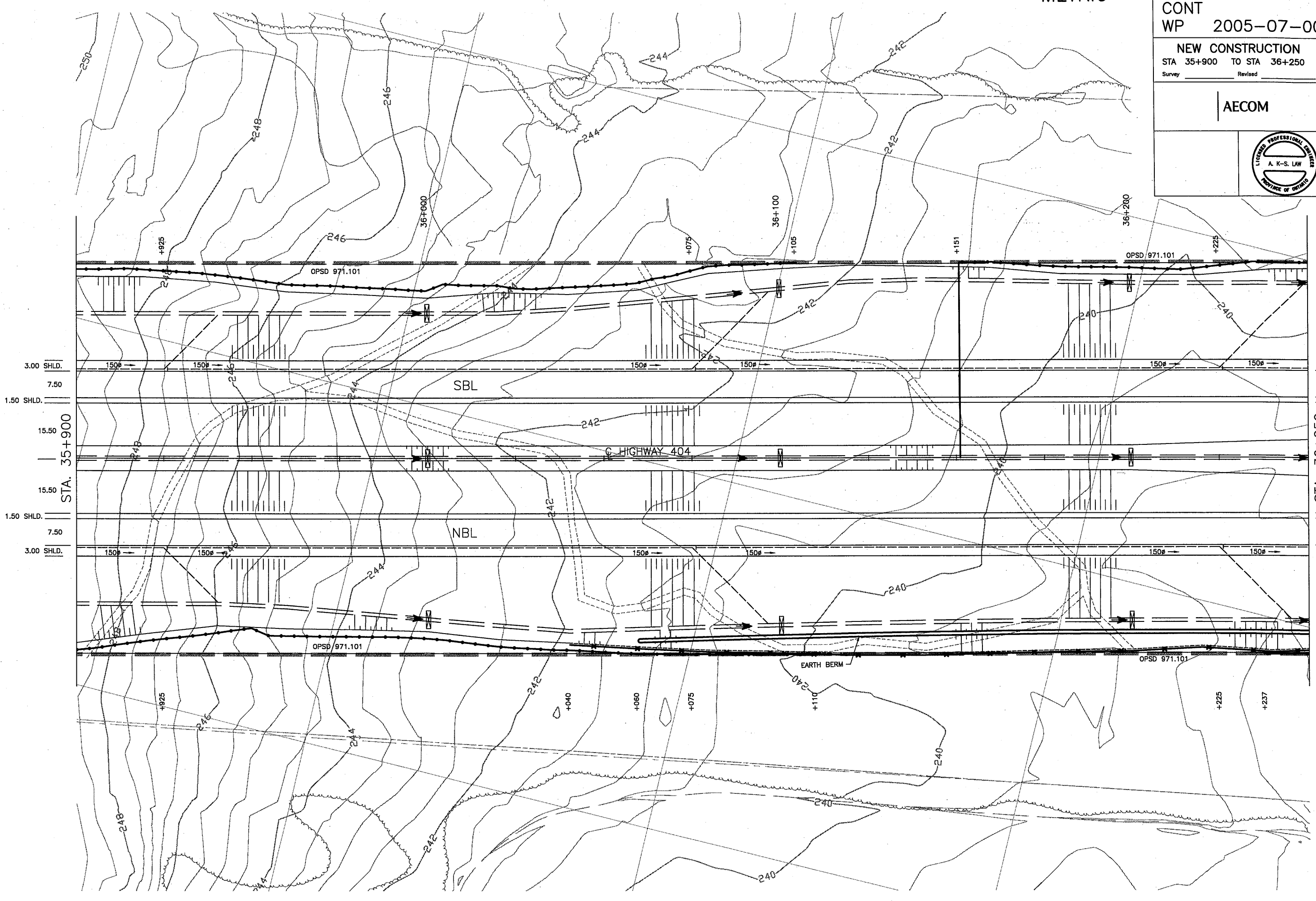
METRIC

PLATE No
CONT
WP 2005-07-00
NEW CONSTRUCTION
STA 35+900 TO STA 36+250
Survey _____ Revised _____



SHEET
NC-16

AECOM



METRIC

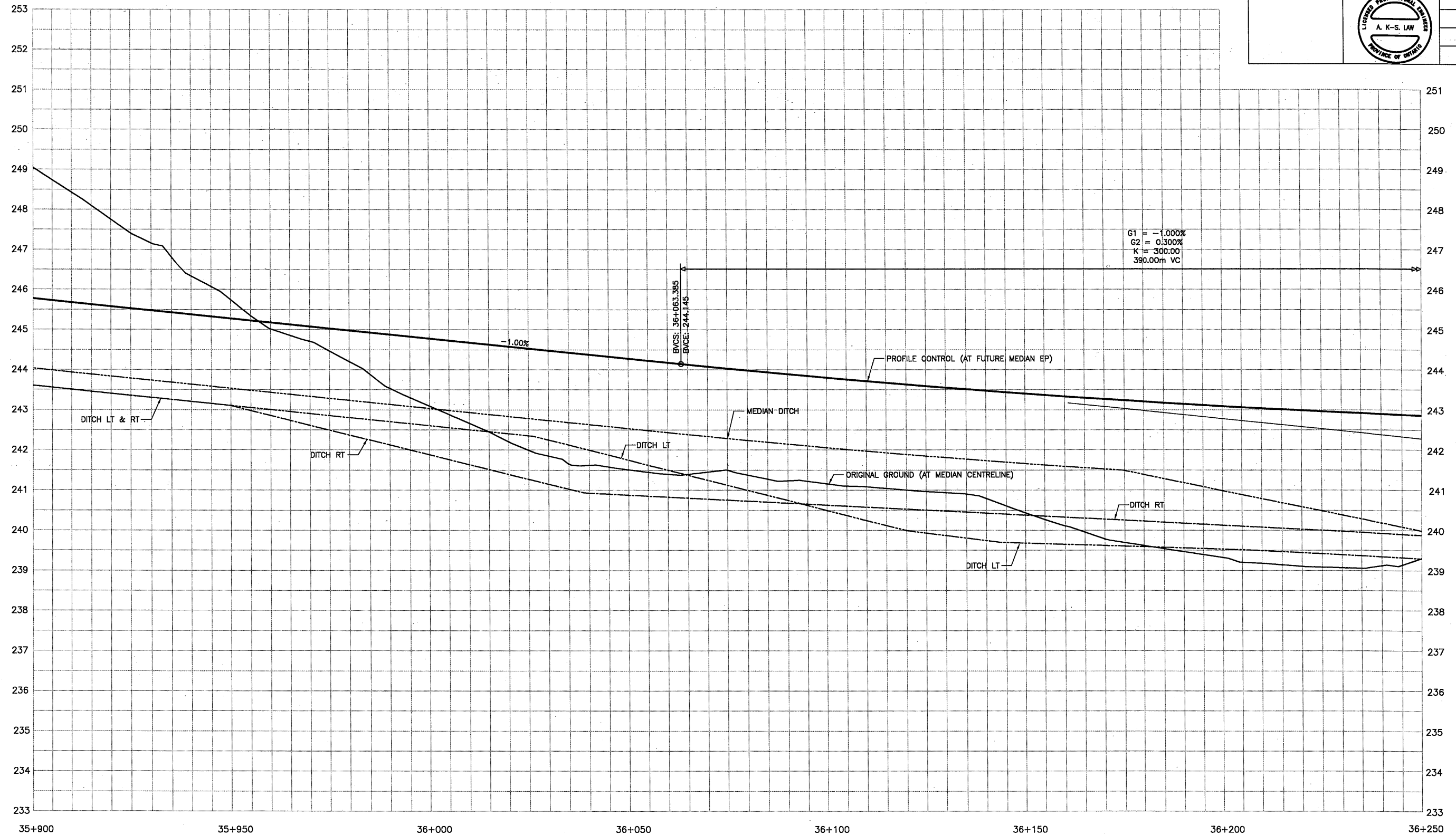
PLATE No
CONT
WP 2005-07-00

PROFILES
STA 35+900 TO STA 36+250
Survey Revised

AECOM



SHEET
NC-17



SCALE

2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

METRIC

PLATE No
CONT
WP 2005-07-00

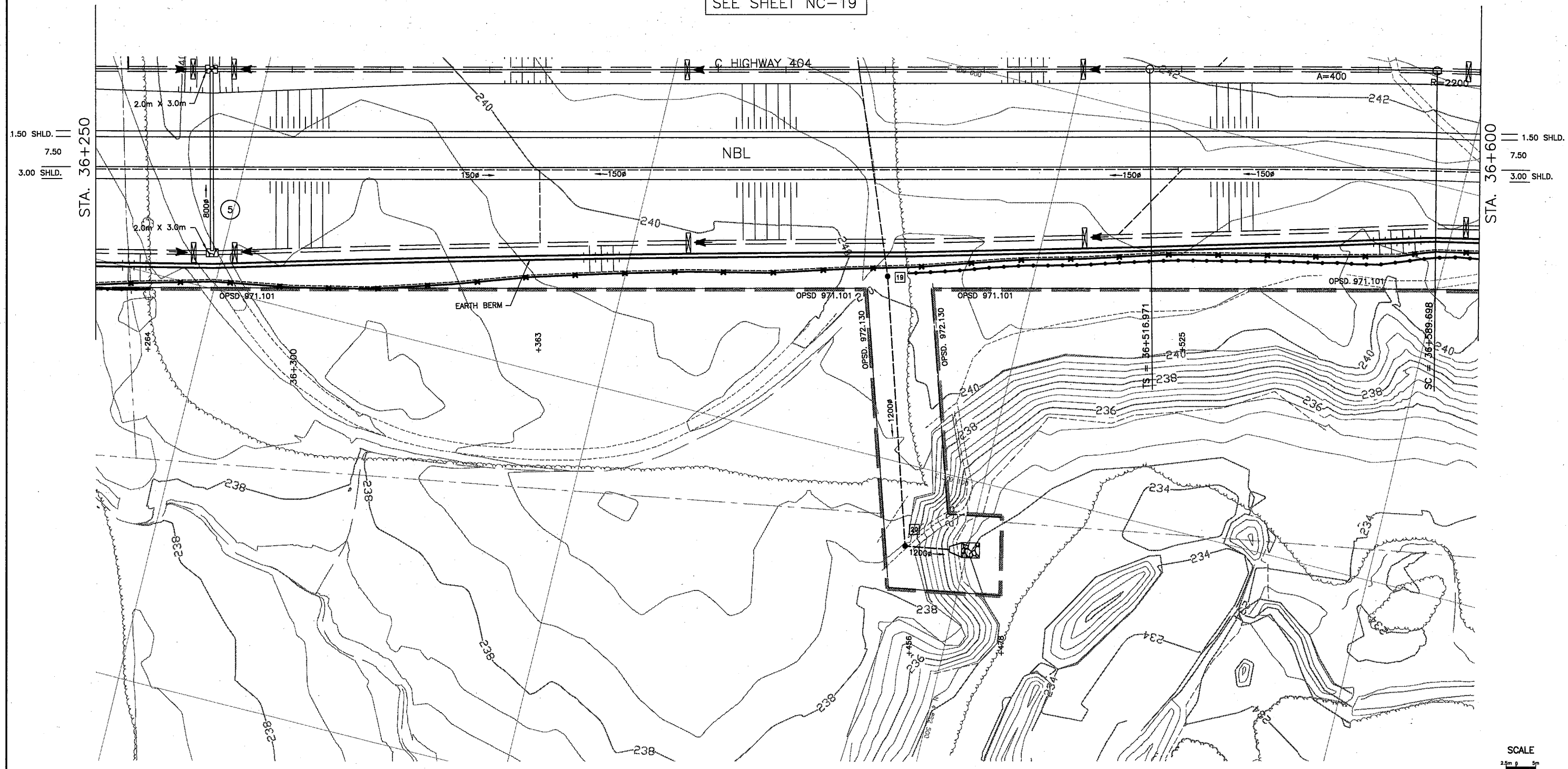
NEW CONSTRUCTION
STA 36+250 TO STA 36+600
Survey Revised

AECOM



SHEET
NC-18

SEE SHEET NC-19



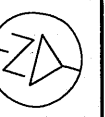
SCALE
2.5m 5m
Horizontal

METRIC

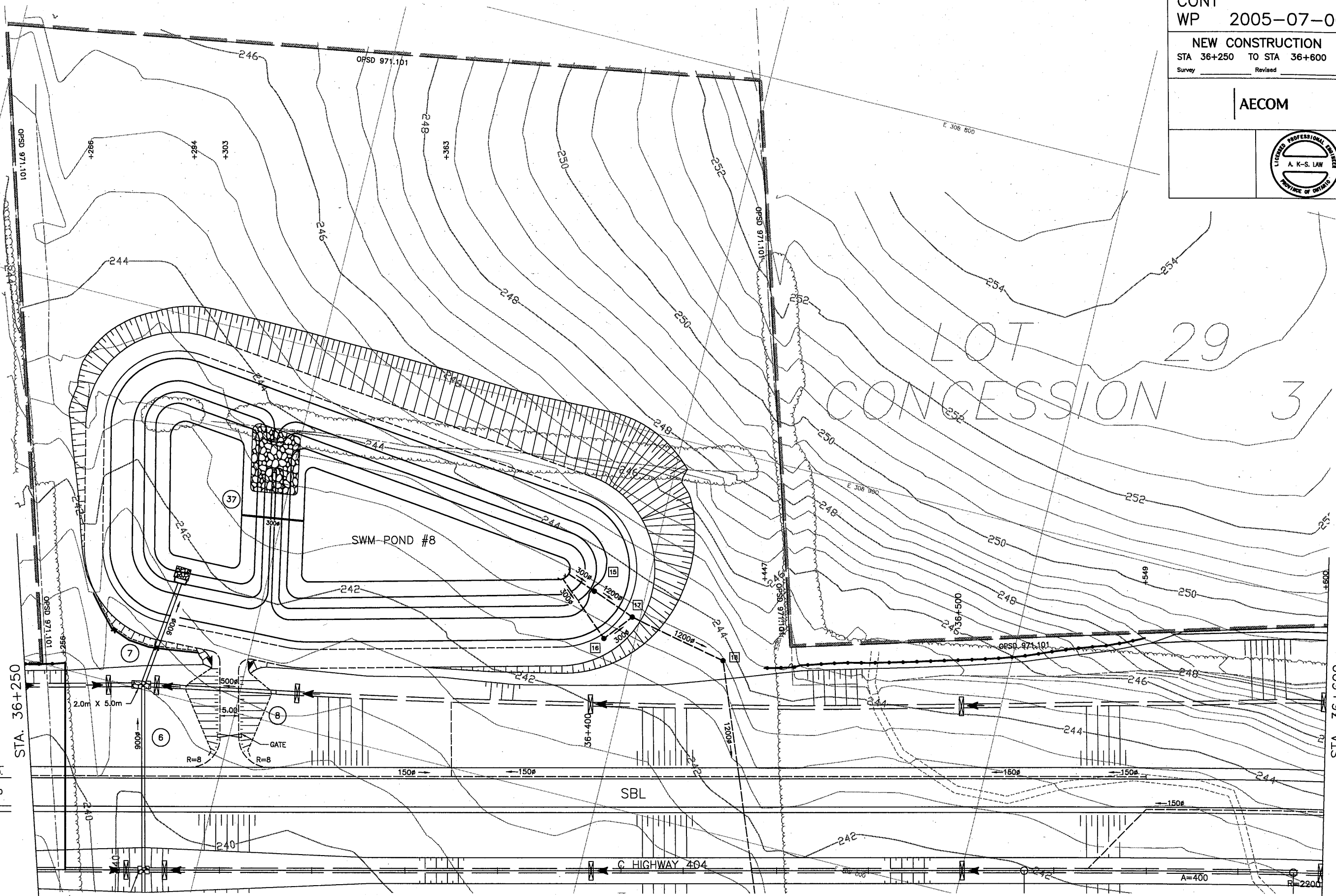
PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 36+250 TO STA 36+600
Survey Revised

AECOM



SHEET
NC-19



SEE SHEET NC-18

STA. 36+600

3.00 SHLD.
7.50
1.50 SHLD.

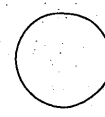
SCALE
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Horizontal

DRAWING NAME: 2538-189-00_QT-NC-19.dwg
SAVED BY: mezzaferron
PLOT DATE: 9/28/2010 1:59 PM
PLOT DATE: 4/22/2010 8:48 AM

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

METRIC

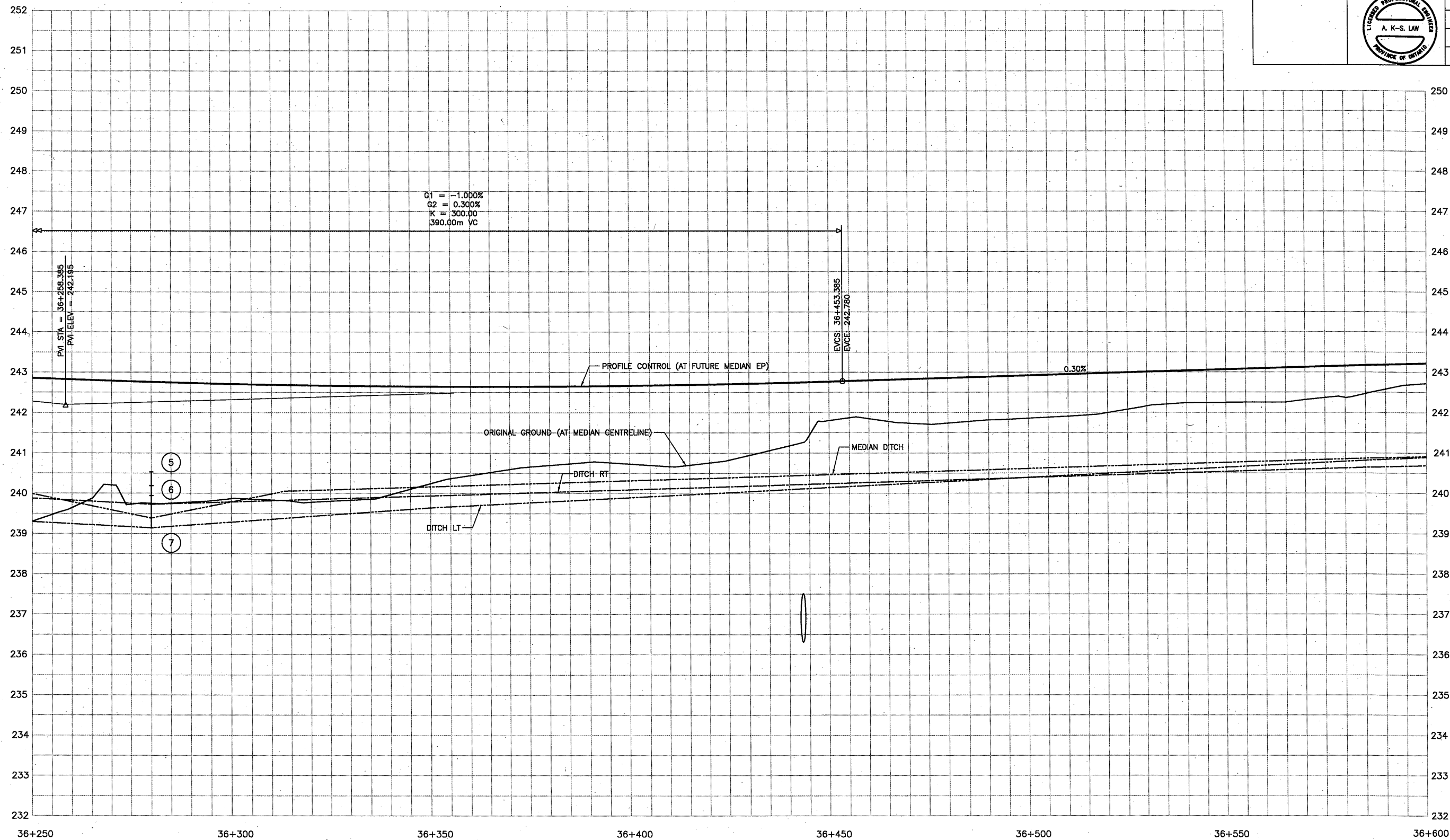
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 36+250 TO STA 36+600
Survey Revised

SHEET
NC-20

AECOM



SCALE
2.5m 0 5m
Horizontal
0.25m 0 0.5m
Vertical

METRIC

PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 36+600 TO STA 36+950
Survey Revised

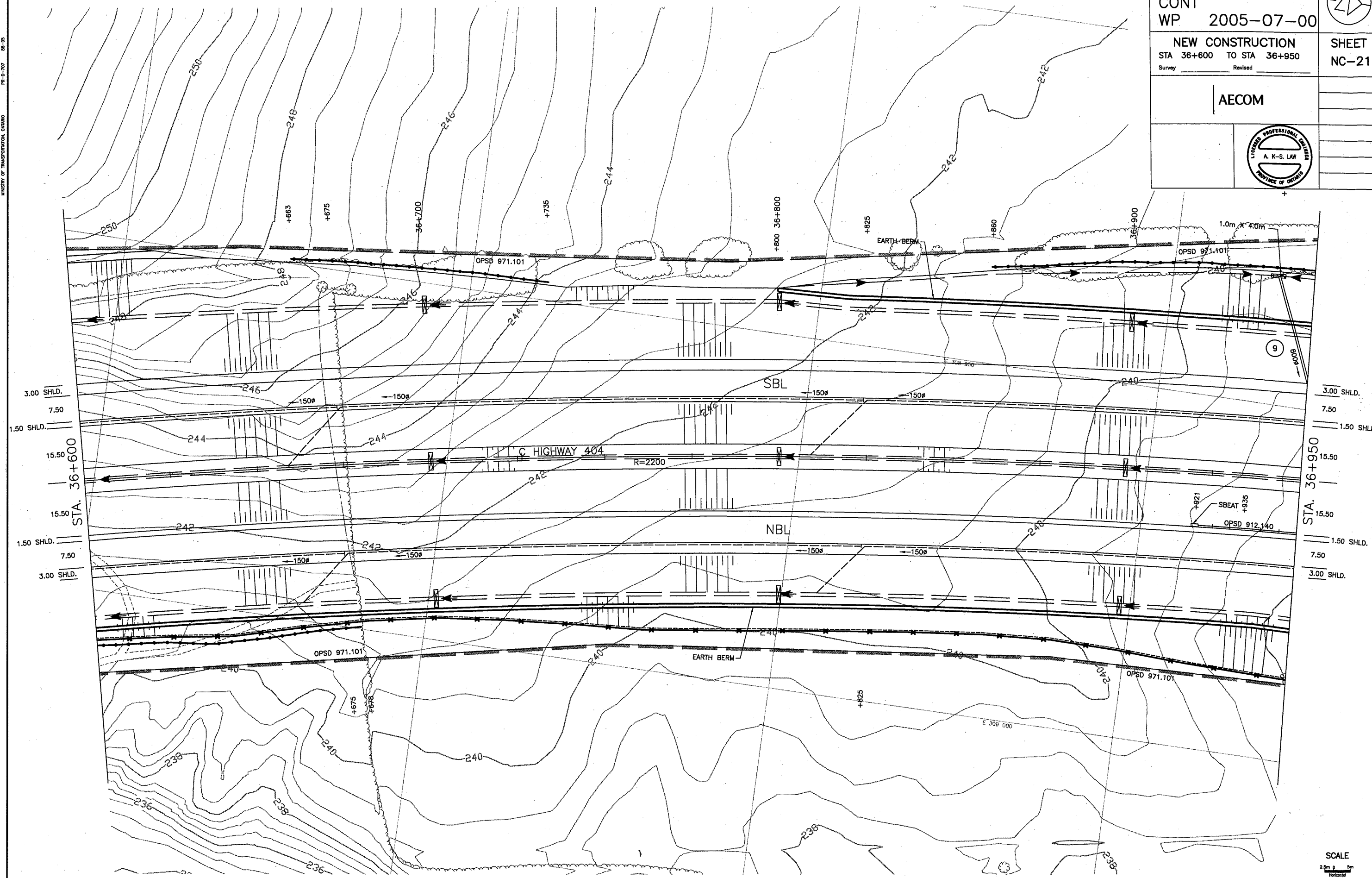
AECOM



SHEET
NC-21

PR-D-307 88-05
MINISTRY OF TRANSPORTATION, ONTARIO

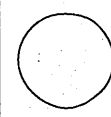
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SAVE DATE: 4/22/2010 1:53 PM
PLOT DATE: 9/29/2010 8:48 AM
SAVE BY: mazzaferrm



SCALE
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Horizontal

METRIC

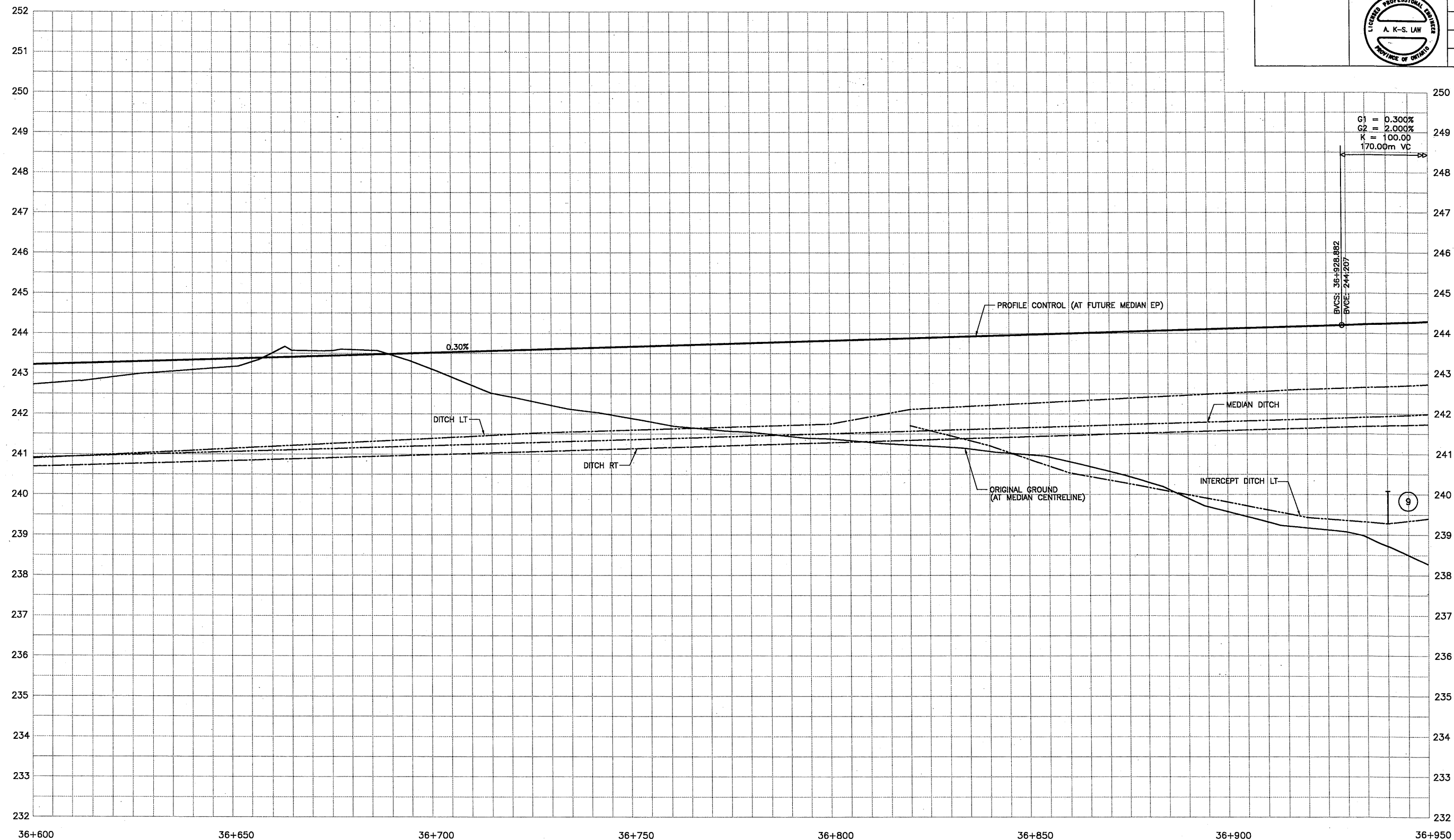
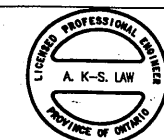
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 36+600 TO STA 36+950
Survey Revised

SHEET
NC-22

AECOM



SCALE
2.5m 5m
0.25m 0.5m
Horizontal
Vertical

PLATE No
CONT
WP 2005-07-00

SHEET
NC-23

A circular seal for a Licensed Professional Engineer in the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the name "A. K-S. LAW" is written.



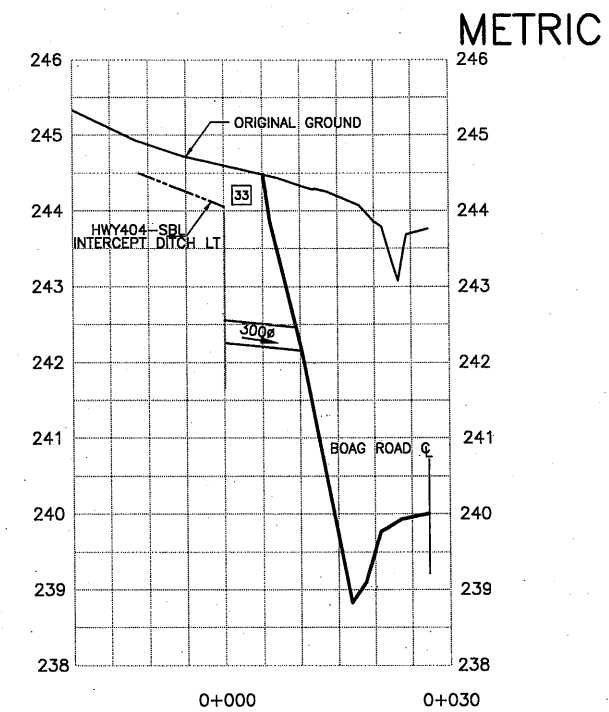
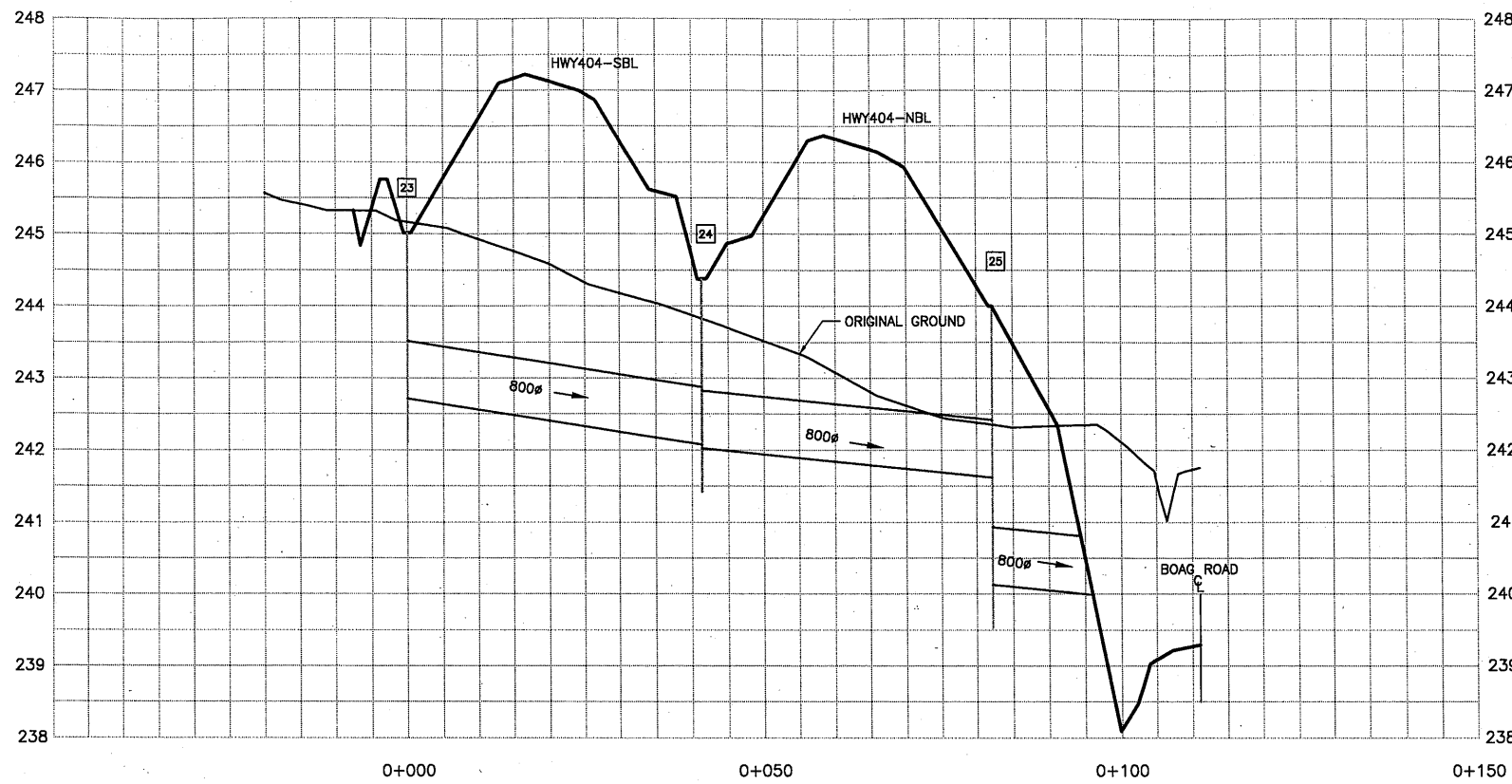
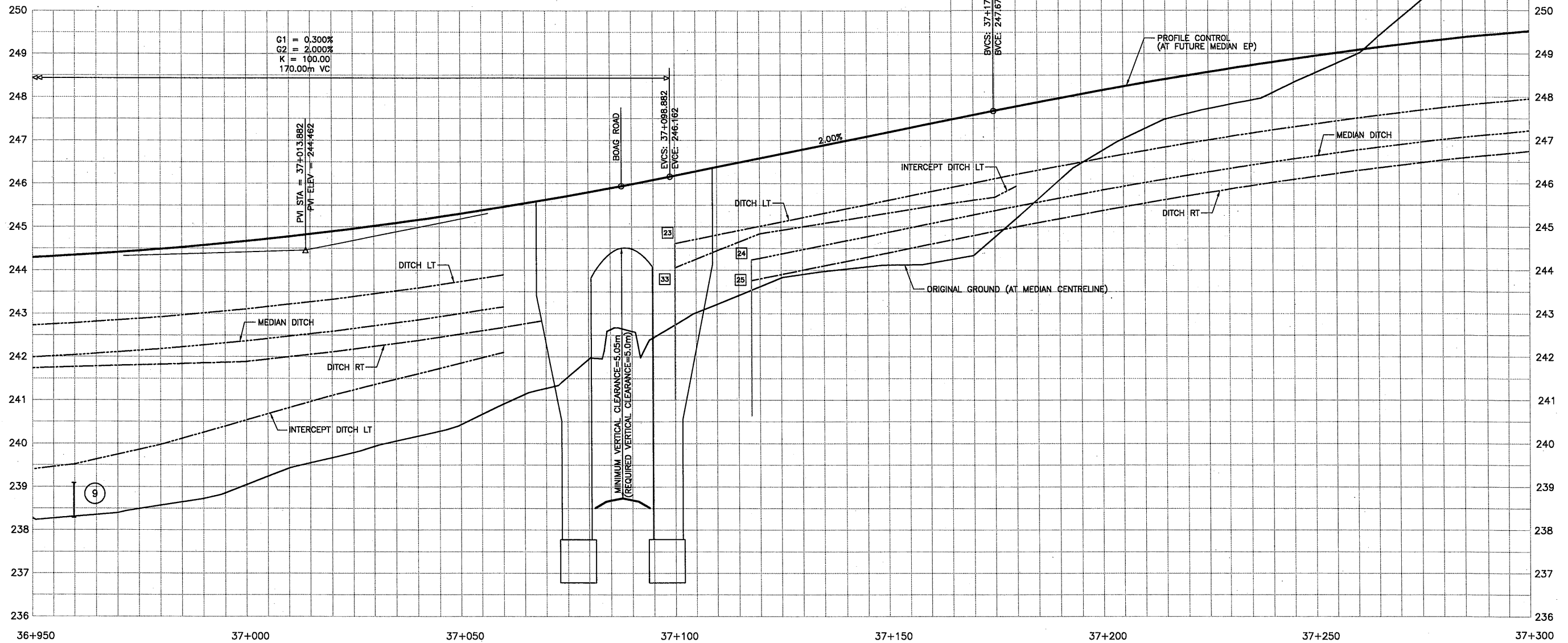


PLATE No		SHEET NC-24
CONT WP 2005-07-00		
PROFILES STA 36+950 TO STA 37+300 Survey _____ Revised _____		
AECOM		





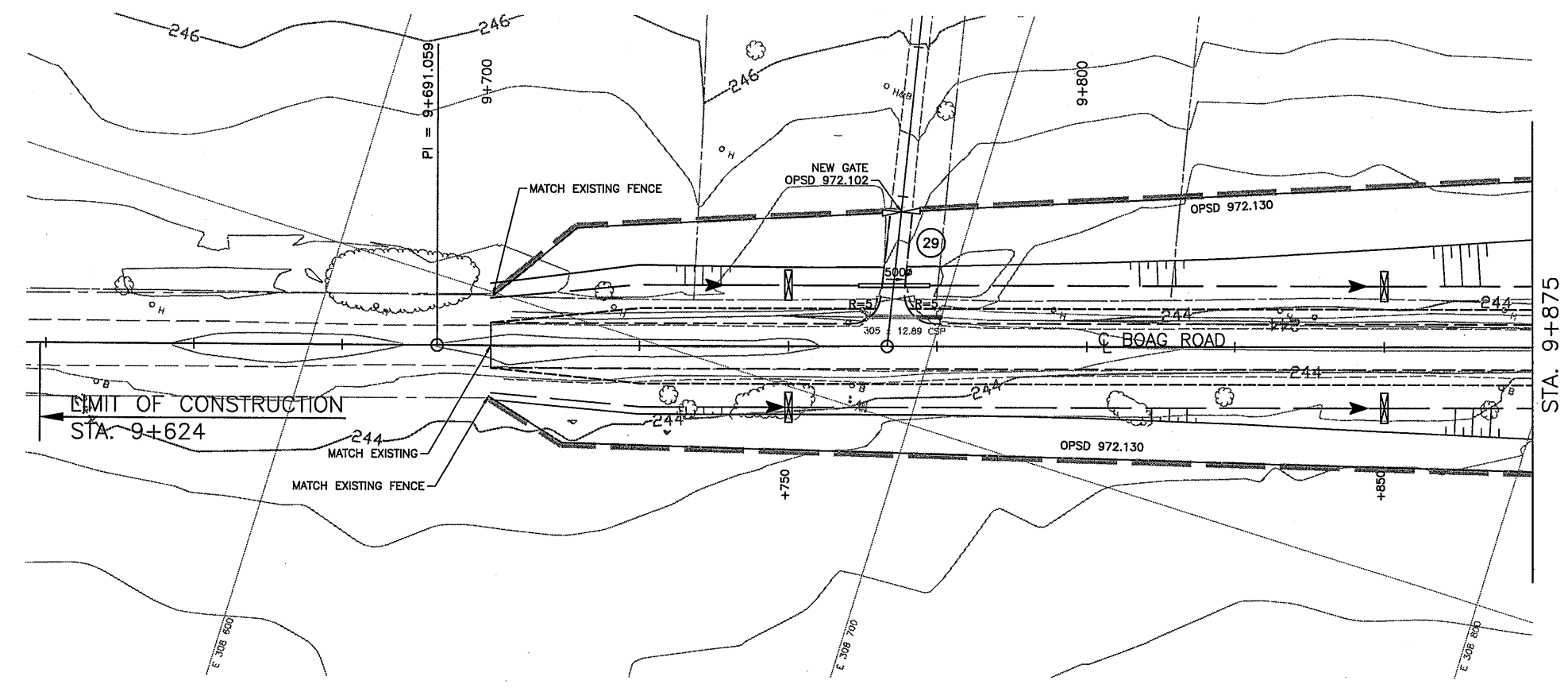
SCALE
2.5m = 1" Horizontal
0.25m = 1" Vertical

DRAWING NAME: 2538-199-00-CT-NC-25.dwg
SAVED BY: mazzaferron
PLOT DATE: 9/30/2010 10:41 AM
PLOT DATE: 9/30/2010 11:39 AM

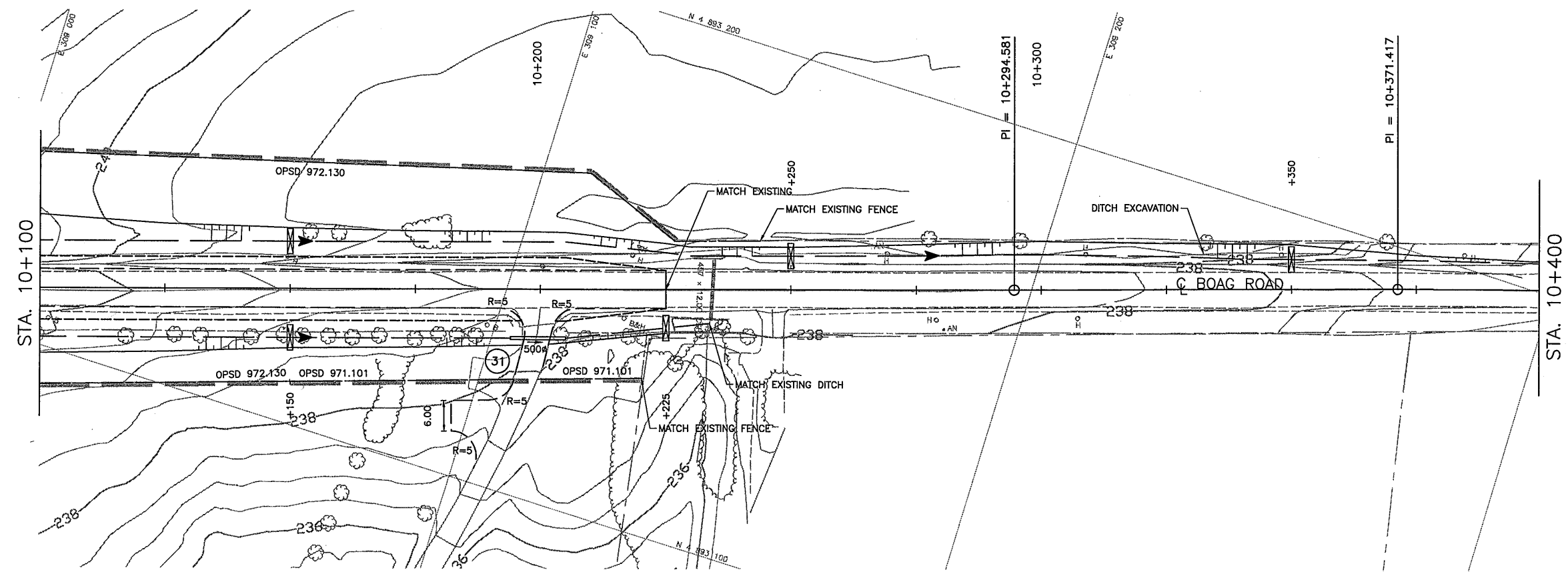
MINISTRY OF TRANSPORTATION, ONTARIO
PR-1-707 88-05

METRIC

PLATE No		
CONT WP 2005-07-00		
NEW CONSTRUCTION STA 9+624 TO STA 10+290		SHEET NC-25
Survey _____ Revised _____		
AECOM		
		



2.50 SHLD.
3.75
3.75
2.50 SHLD.



2.50 SHLD.
3.75
3.75
2.50 SHLD.

SCALE
2.5m p 5m
Horizontal

METRIC

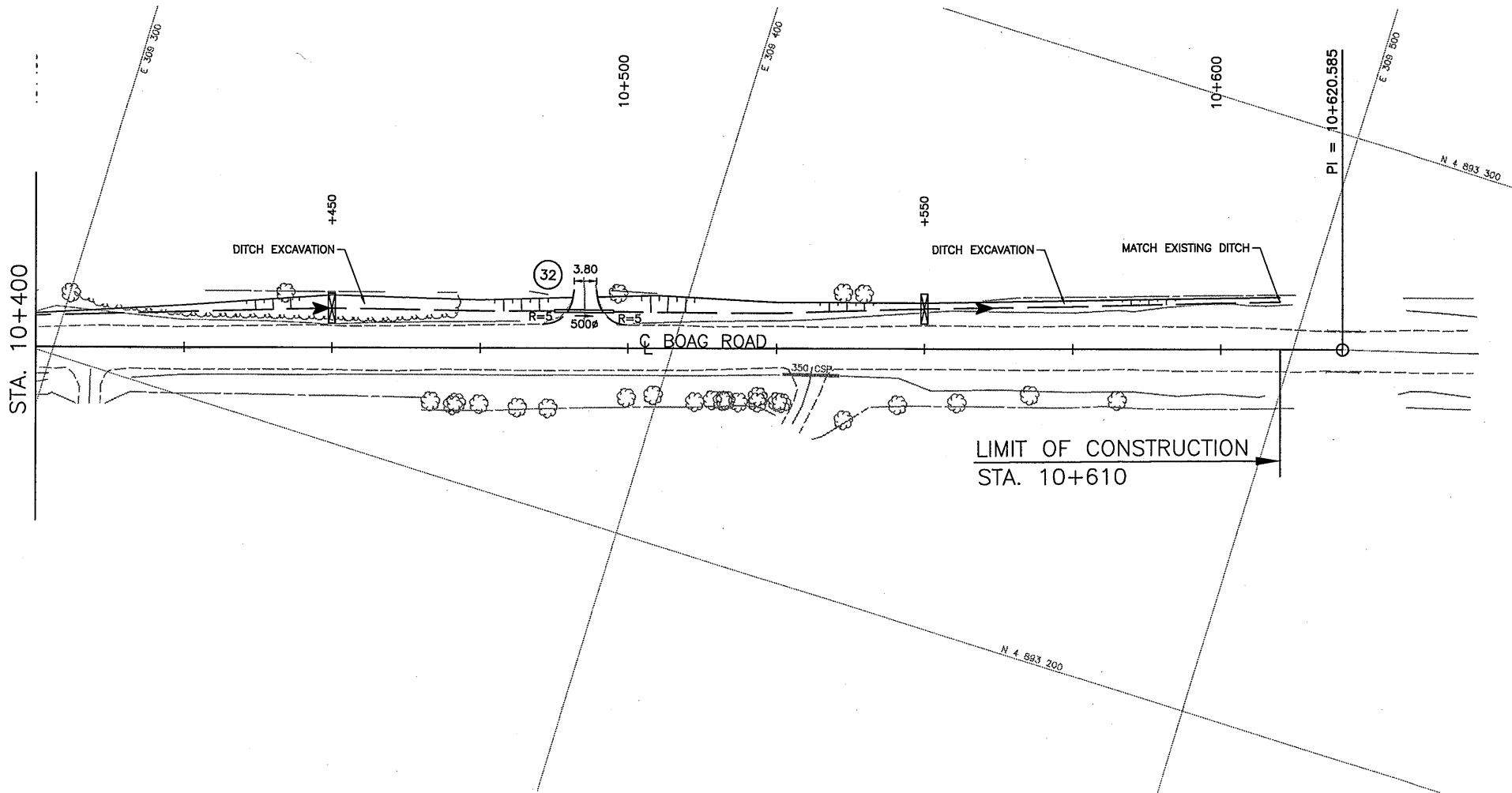
PLATE No
CONT
WP 2005-07-00



NEW CONSTRUCTION
STA 9+624 TO STA 10+610
Survey _____ Revised _____

SHEET
NC-26

AECOM



SCALE

2.5m 5m
Horizontal

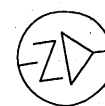
PR-0-302 88-05

MINISTRY OF TRANSPORTATION, ONTARIO

DRAWING NAME: 253B-199-00-CT-NC-27.dwg
SAVED BY: mazzefrom
PLOT DATE: 9/29/2010 10:51 AM
PLOT DATE: 9/29/2010 8:50 AM

METRIC

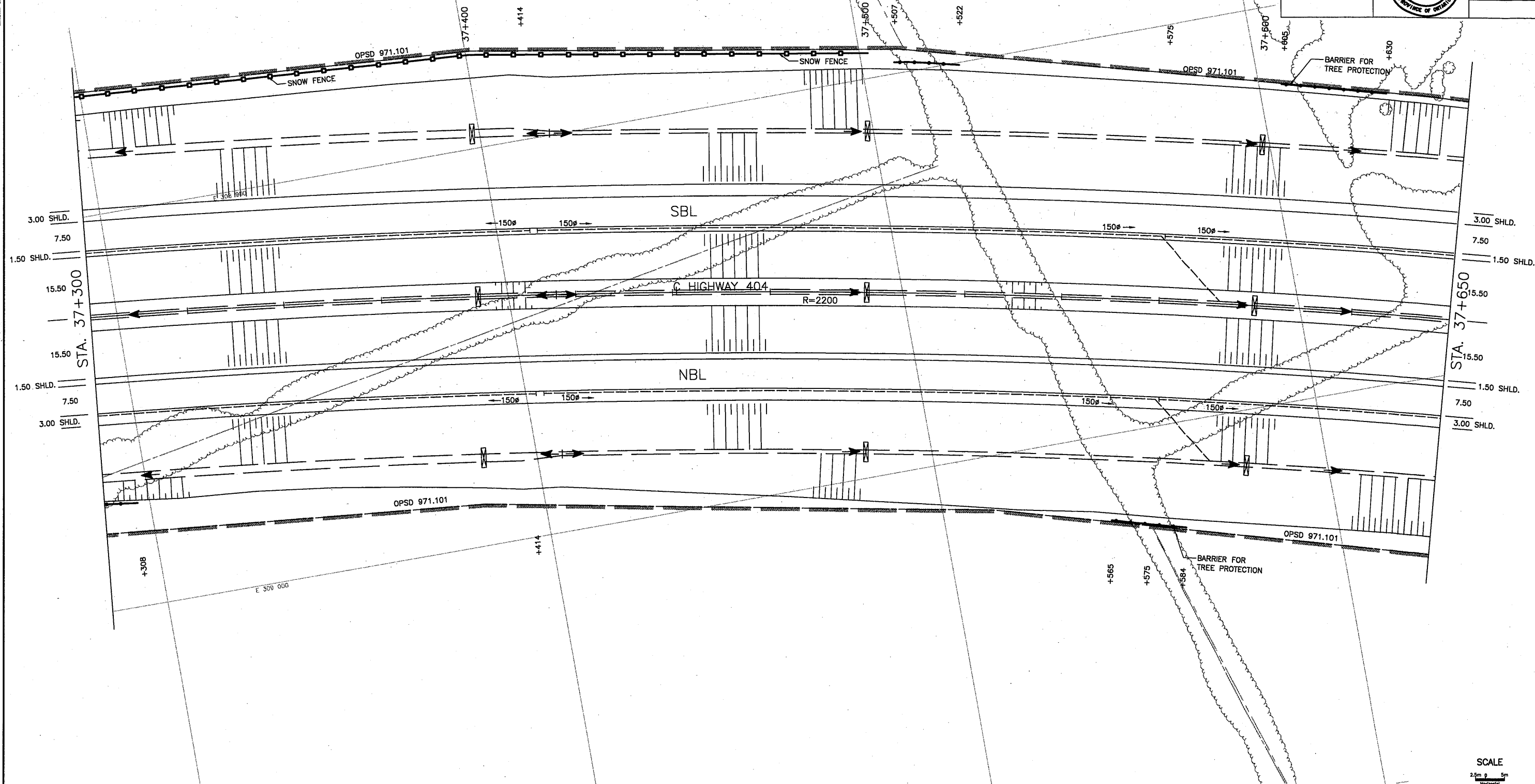
PLATE No
CONT
WP 2005-07-00



NEW CONSTRUCTION
STA 37+300 TO STA 37+650
Survey Revised

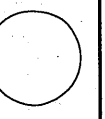
SHEET
NC-27

AECOM



METRIC

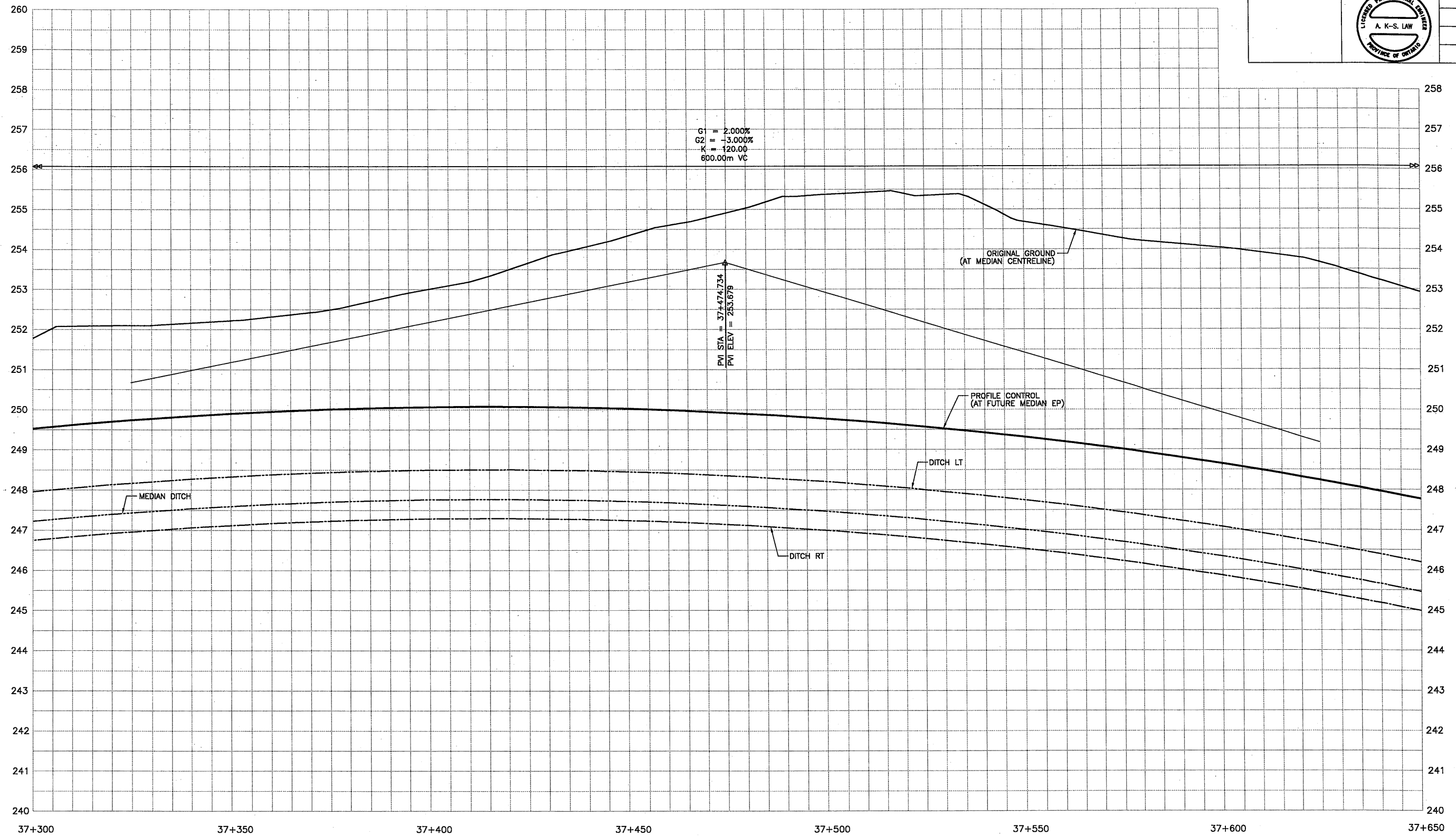
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 37+300 TO STA 37+650
Survey Revised

SHEET
NC-28

AECOM



SCALE
2.5m 0 5m
Horizontal
0.25m 0 0.5m
Vertical

SHEET
NC-29

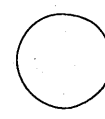
A circular seal for a Licensed Professional Engineer in the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the name "A. K-S. LAW" is printed.



DRAWING NAME: 2538-199-00_CIT-NO-29.dwg
 SAVED BY: mazzoferrom SAVE DATE: 5/10/2010 10:52 AM PLOT DATE: 9/29/2010 8:50 AM

METRIC

PLATE No
CONT
WP 2005-07-00



PROFILES
STA 37+650 TO STA 38+000
Survey Revised

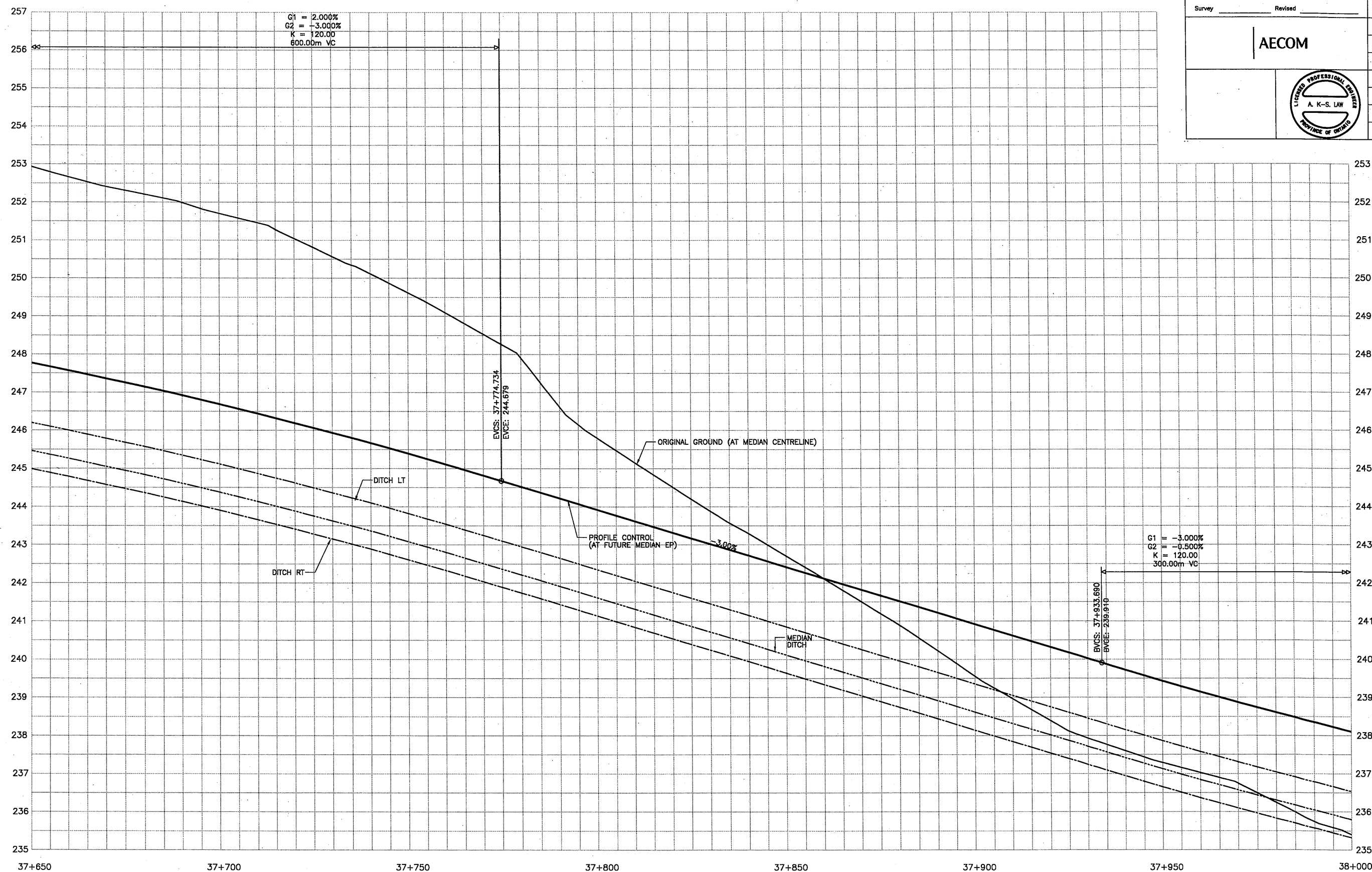
SHEET
NC-30

AECOM



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

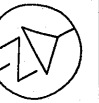
DRAWING NAME: 2538-199-00_CT-NC-30.dwg
SAVED BY: mazzolenom
PLOT DATE: 9/29/2010 10:52 AM
SAVE DATE: 5/10/2010 8:50 AM



SCALE
2.5m 0 5m
Horizontal
0.25m 0 0.5m
Vertical

METRIC

PLATE No
CONT
WP 2005-07-00



NEW CONSTRUCTION
STA 38+000 TO STA 38+350
Survey _____ Revised _____

SHEET
NC-31

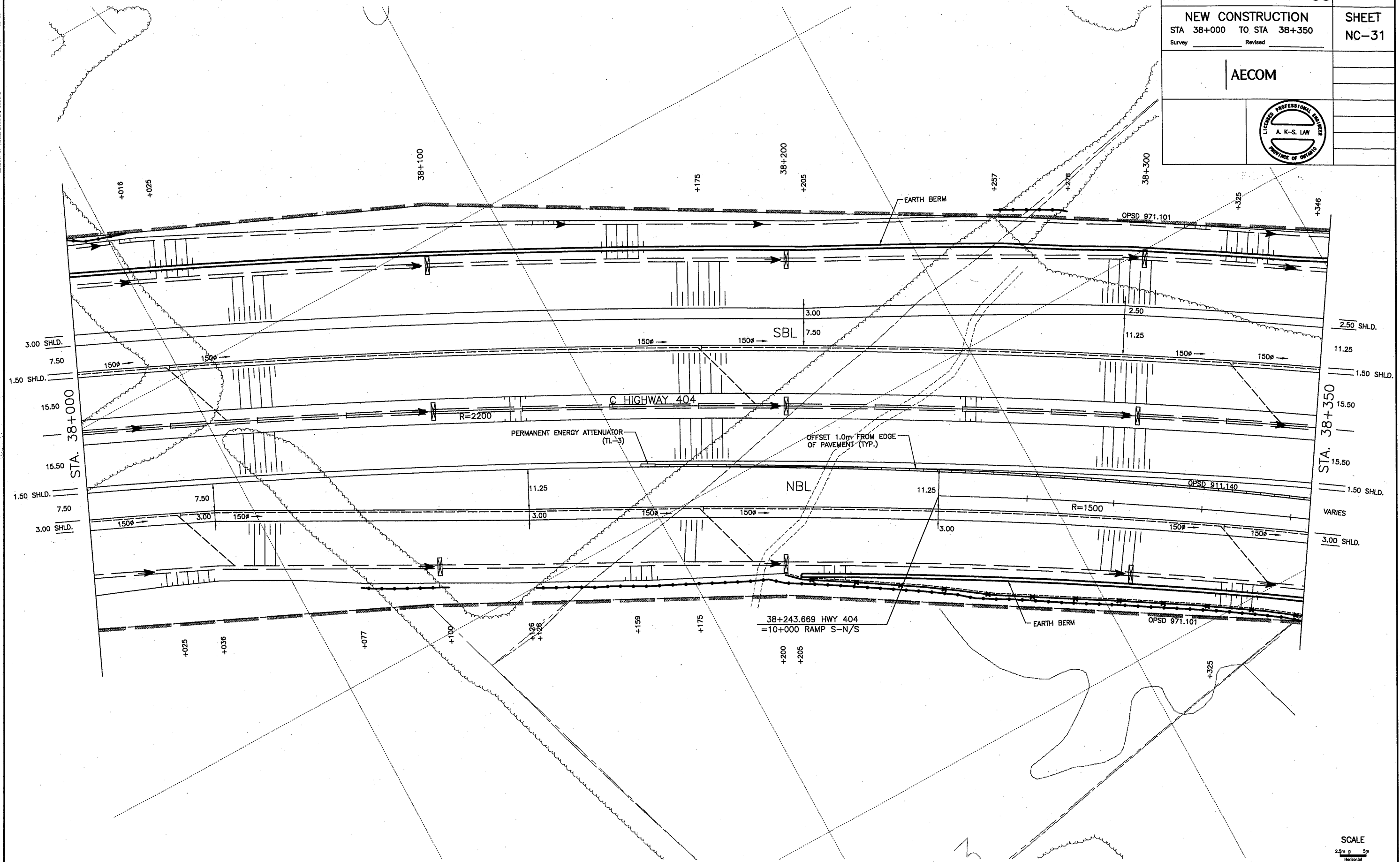
AECOM



PR-D-207 88-05

MINISTRY OF TRANSPORTATION, ONTARIO

DRAWING NAME: 2538-199-00_CT-NC-31.dwg
SAVED BY: mazzferrom
PLOT DATE: 9/29/2010 9:13 PM
PLOT DATE: 5/18/2010 9:13 AM



SCALE
2.5m 5m
Horizontal

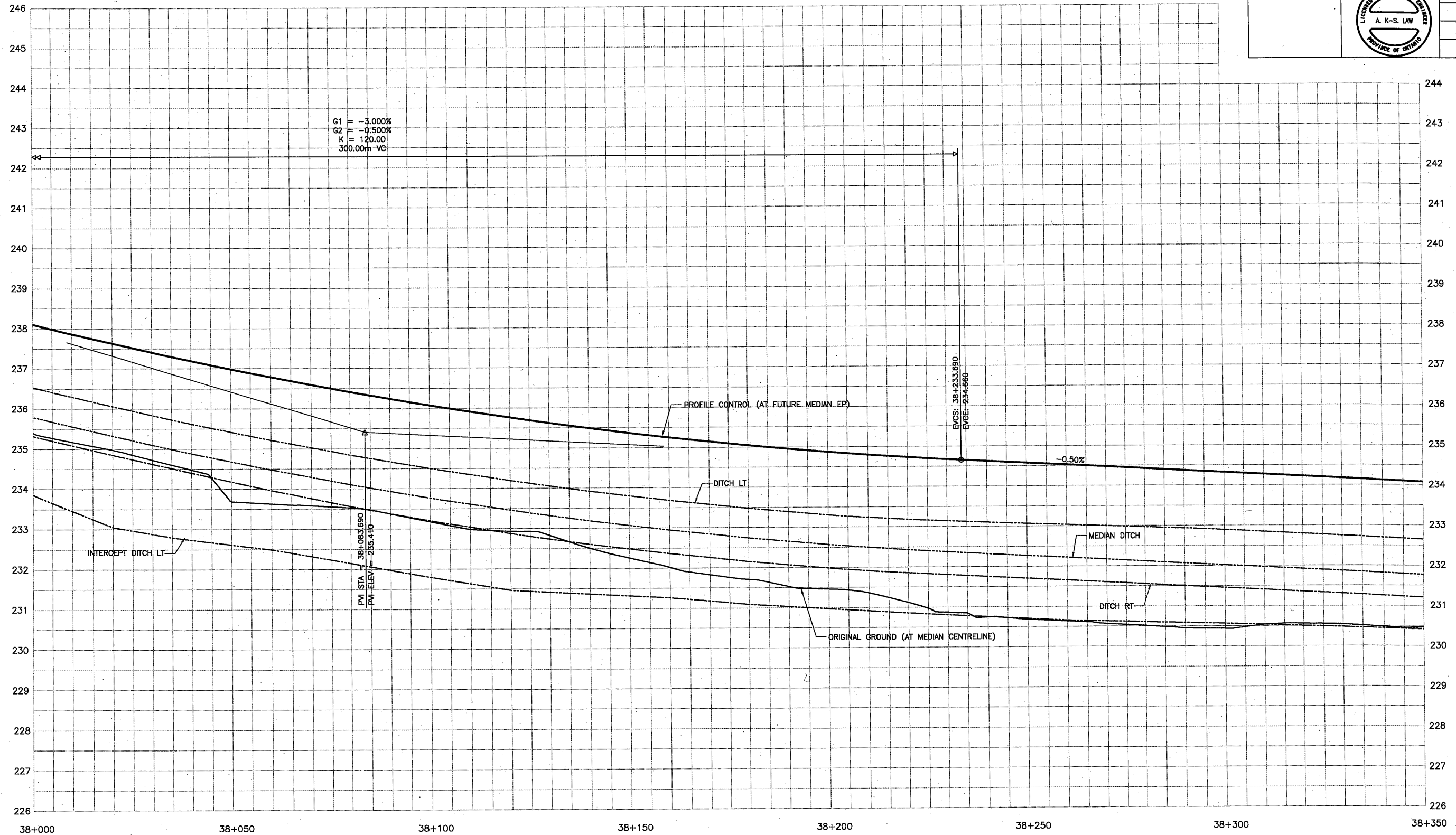
METRIC

PLATE No
CONT
WP 2005-07-00

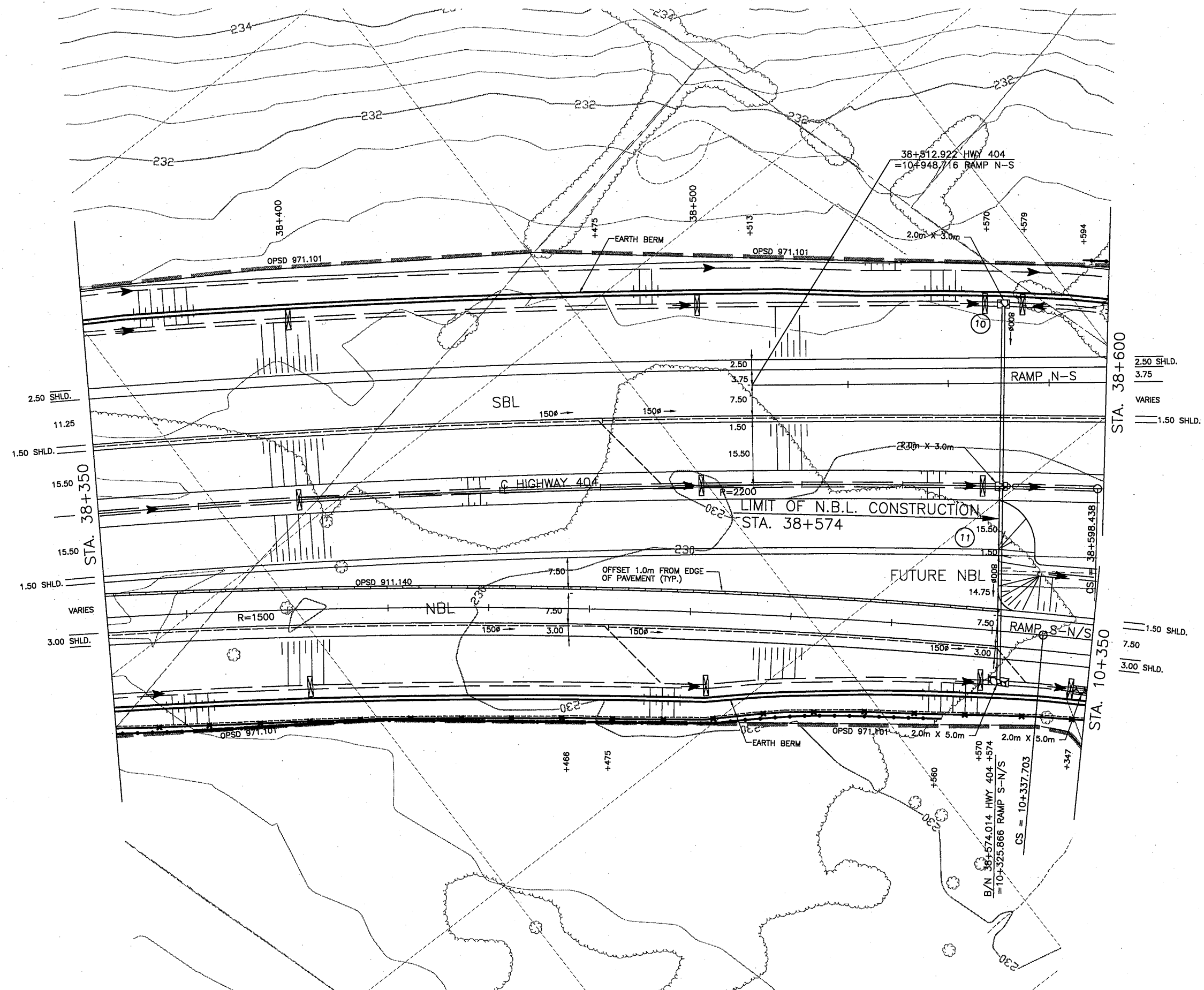
PROFILES
STA 38+000 TO STA 38+350
Survey Revised

SHEET
NC-32

AECOM



SCALE
2.5m 0 5m
Horizontal
0.25m 0 0.5m
Vertical



PR-D-707 88-05
MINISTRY OF TRANSPORTATION, ONTARIO
DRAWING NAME: 253B-199-00-01-NC-34.dwg
SAVED BY: mazzaferron
PLOT DATE: 9/29/2010 9:14 PM
SAVE DATE: 5/18/2010 9:14 PM

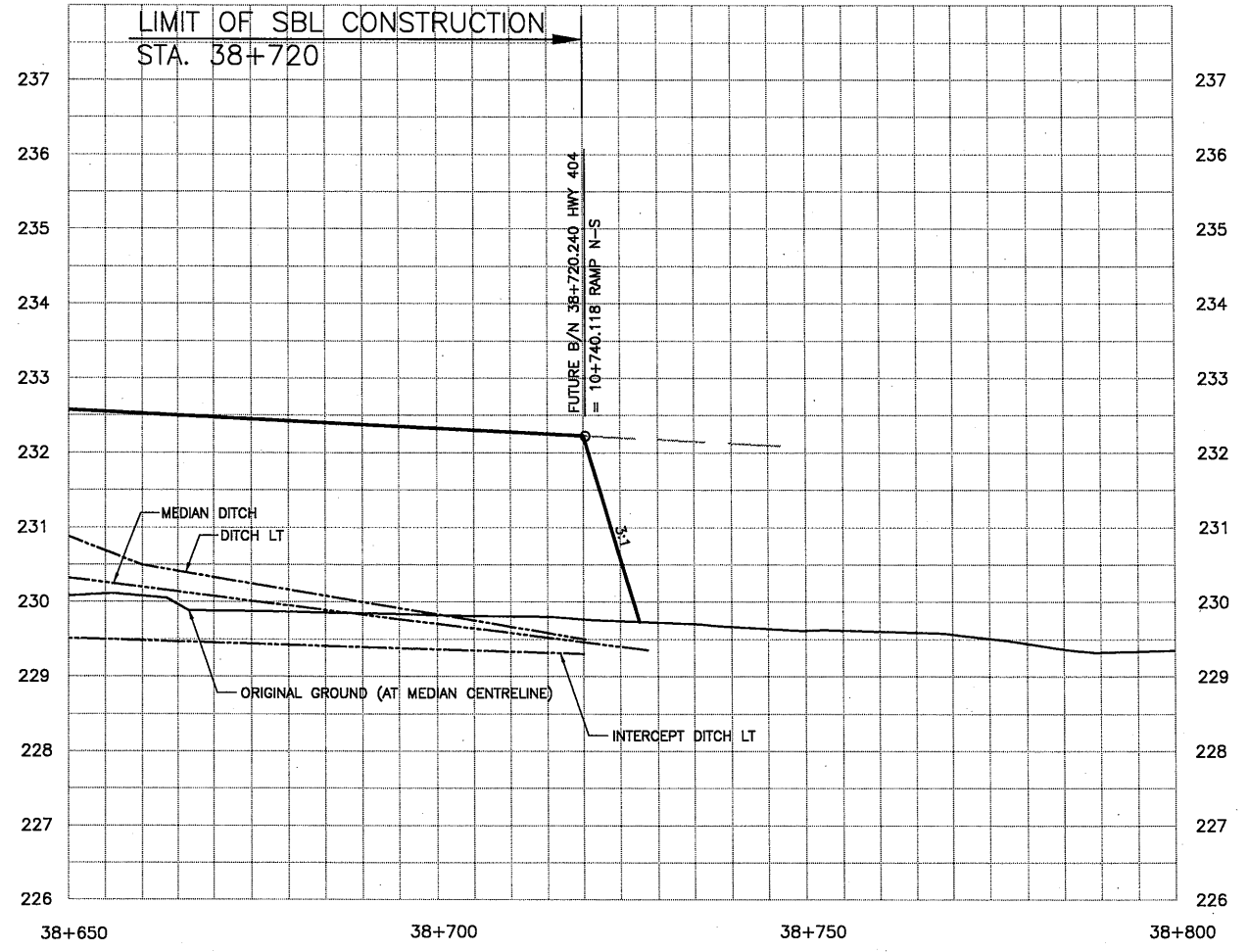
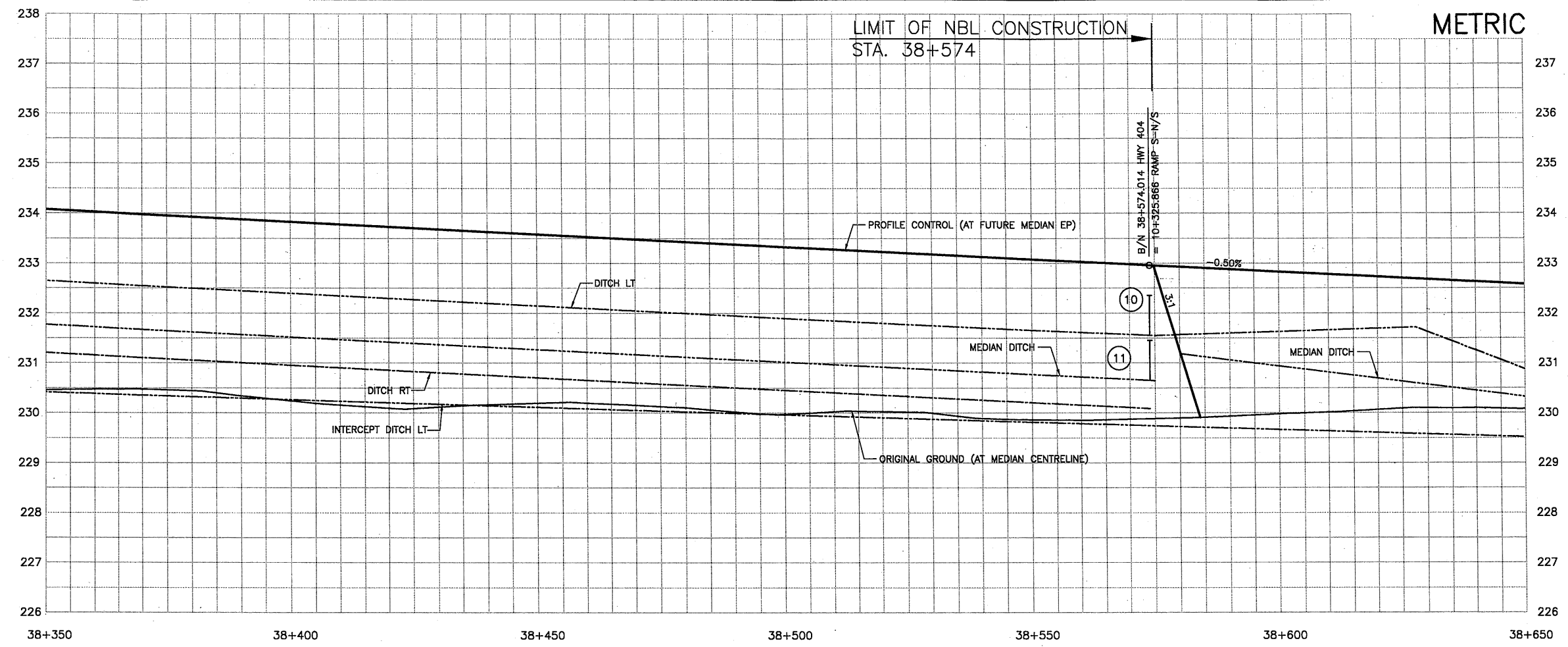
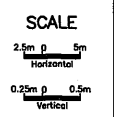


PLATE No		SHEET NC-34
CONT WP 2005-07-00		
PROFILES STA 38+350 TO STA 38+720 Survey Revised		
AECOM		



METRIC

PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 38+600 TO STA 38+775
Survey Revised

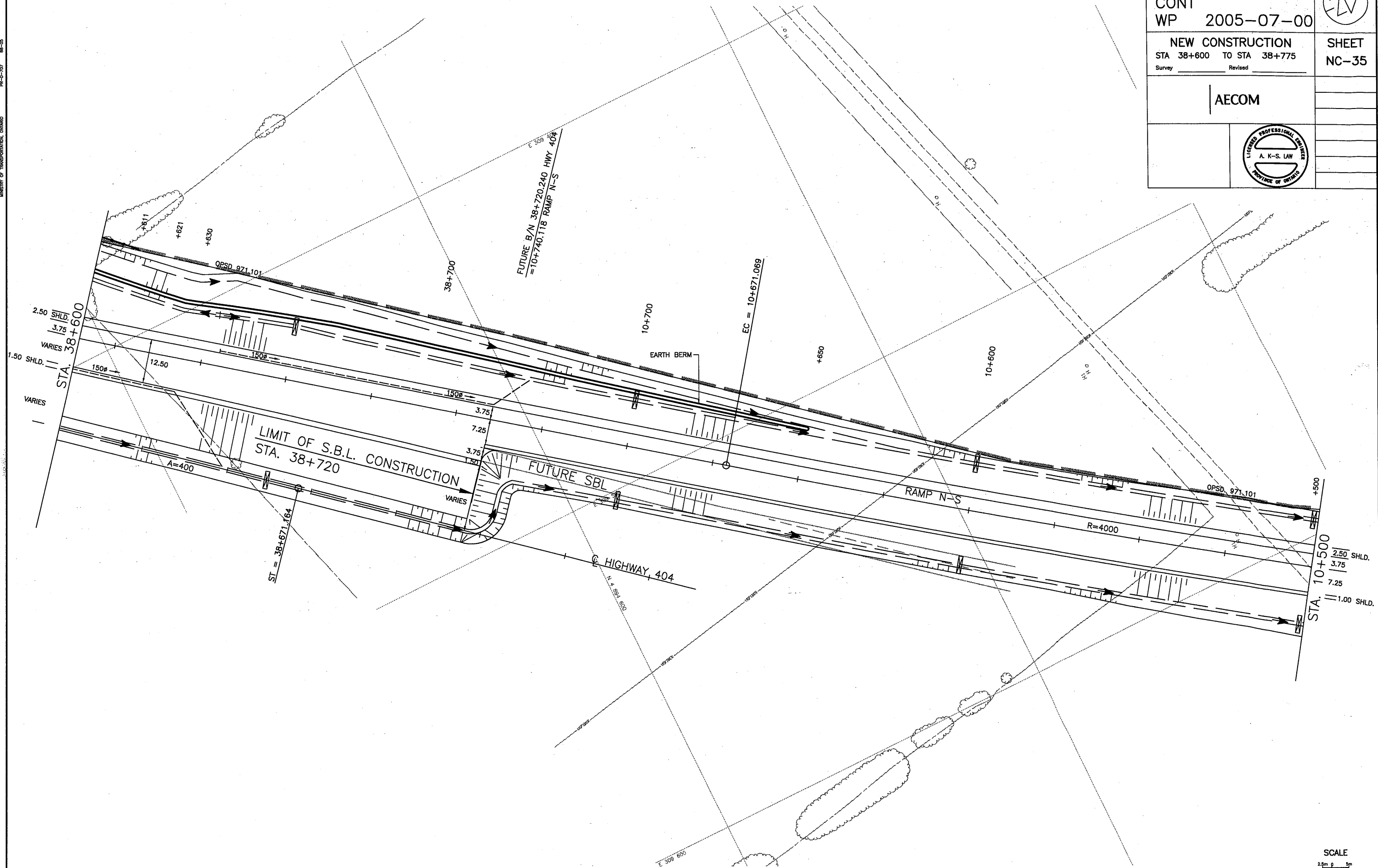
AECOM



SHEET
NC-35

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

DRAWING NAME: 2538-199-00-CT-NC-35.dwg
SAVED BY: mazzaferrari
SAVE DATE: 5/18/2010 9:33 PM
PLOT DATE: 9/29/2010 8:51 AM

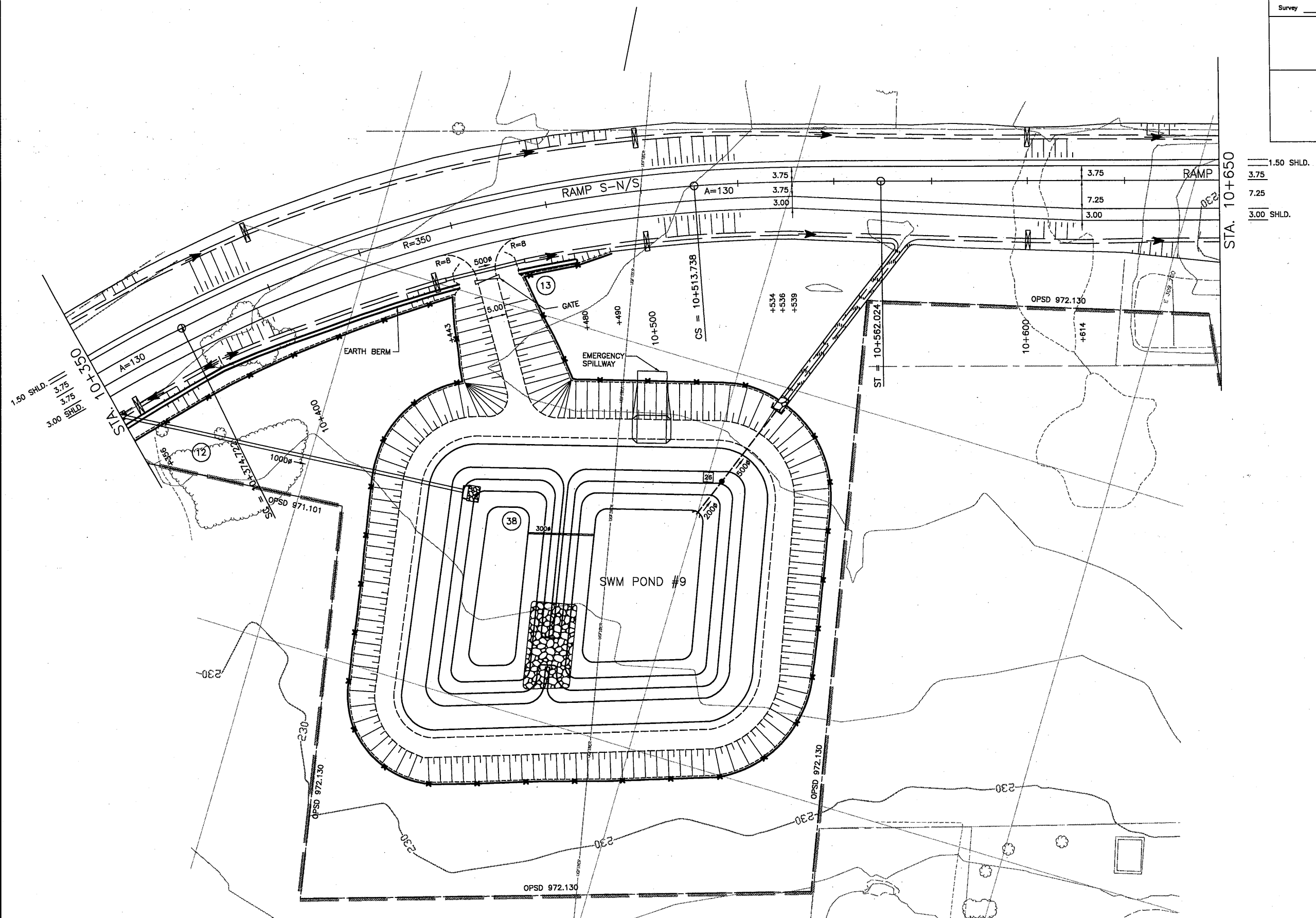


SCALE
2.5m 5m 10m
Horizontal

PLATE No	
CONT WP	2005-07-00
NEW CONSTRUCTION	
STA 10+350	TO STA 10+650
Survey	Revised



SHEET
NC-36



SCALE

0 5m

DRAWING NAME: 2538--199--00_CT--NO--36.dwg
SAVED BY: mazzaferraro SAVE DATE: 5/18/2010 9:56 PM PLOT DATE: 9/29/2010 8:52 AM

MINISTRY OF TRANSPORTATION, ONTARIO

DRAWING NAME: 2538-189-00_CT-NC-37.dwg
SAVED BY: mazzferrom
SAVE DATE: 5/27/2010 8:33 AM
PLOT DATE: 9/29/2010 8:52 AM

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-307 88-05

METRIC

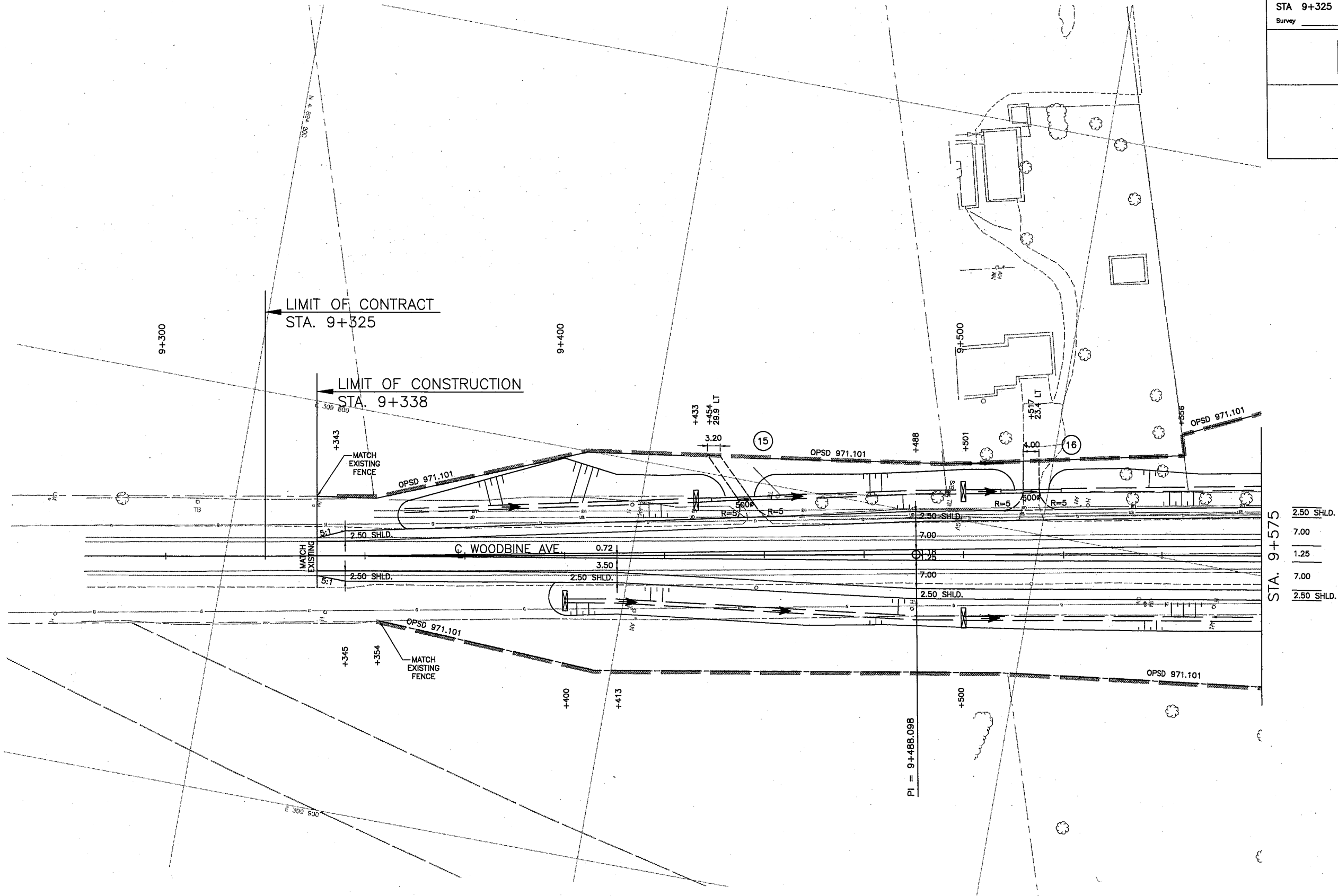
PLATE No
CONT
WP 2005-07-00

NEW CONSTRUCTION
STA 9+325 TO STA 9+575
Survey _____ Revised _____

AECOM



SHEET
NC-37



STA. 9+575
2.50 SHLD.
7.00
1.25
7.00
2.50 SHLD.

SCALE
2.5m 0 5m
Horizontal

METRIC

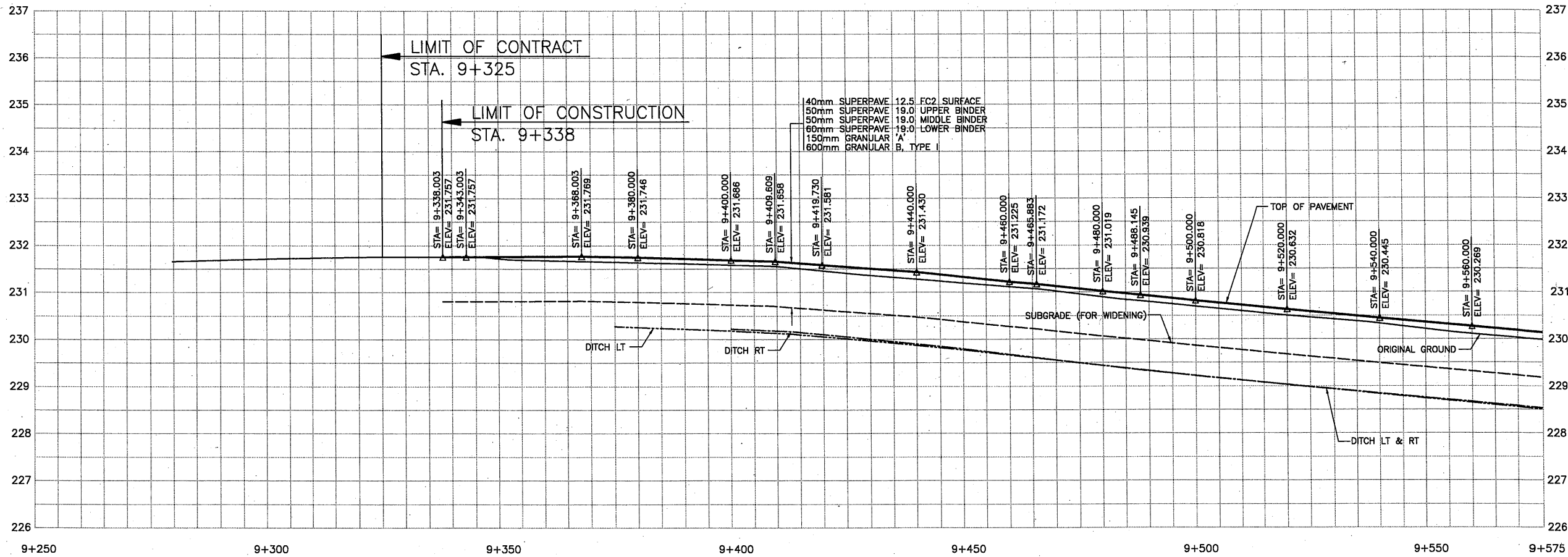
PLATE No
CONT
WP 2005-07-00

PROFILES
STA 9+300 TO STA 9+575
Survey _____ Revised _____

AECOM

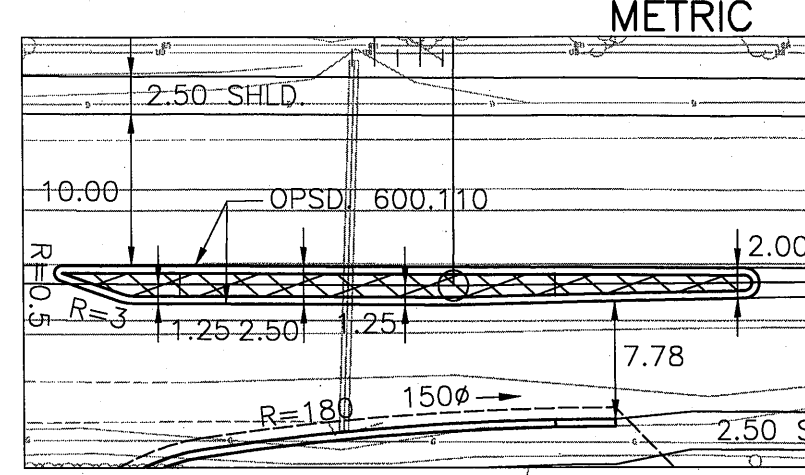


SHEET
NC-38



WOODBINE AVENUE

SCALE
2.5m 5m
Horizontal
0.25m 0.5m
Vertical



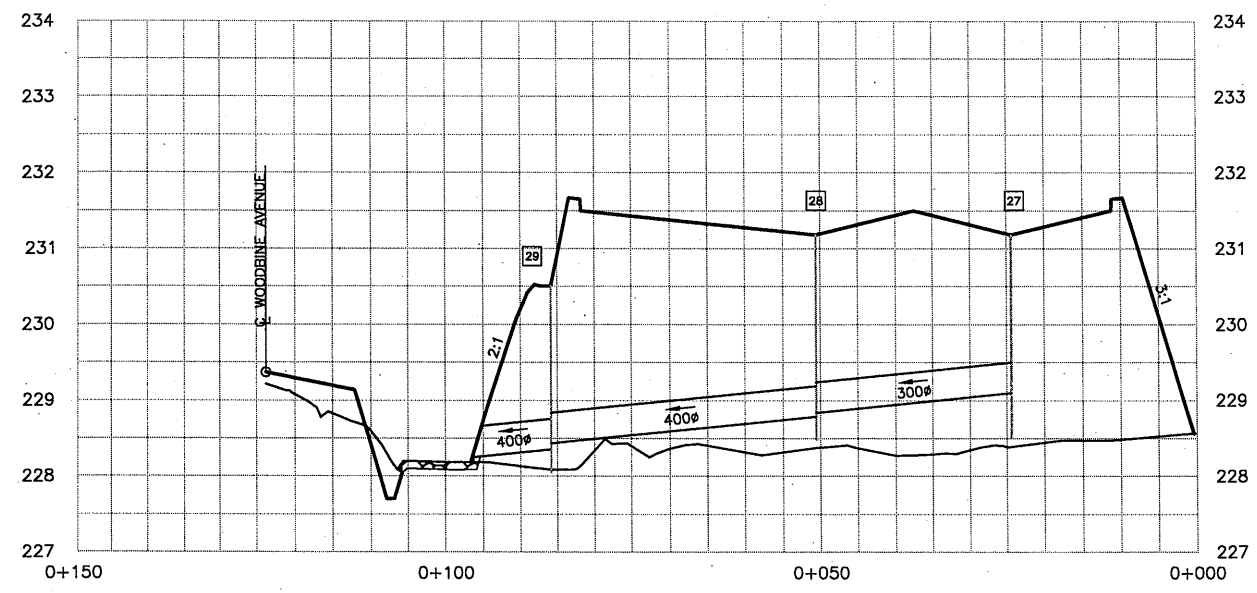
METRIC

AECOM

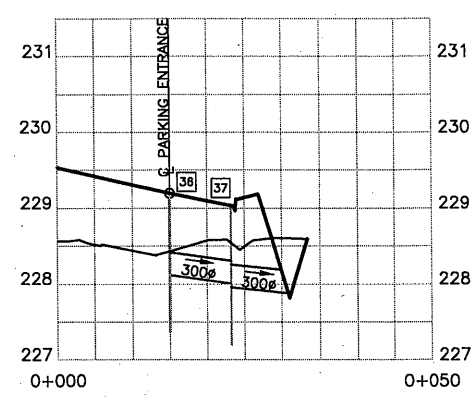
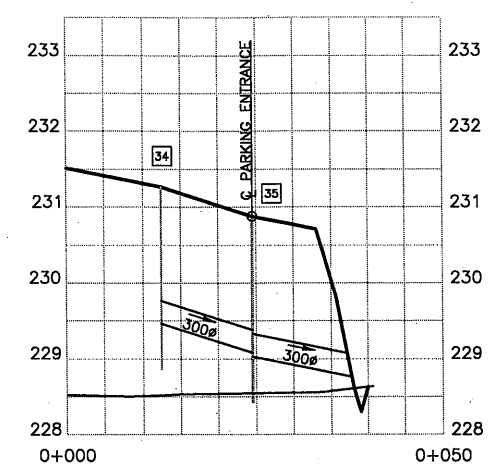


2538-199-00_CT-NC-40.dwg
DRAWING NAME: 2538-199-00_CT-NC-40.dwg
SAVED BY: al-khudayye
PLOT DATE: 9/30/2010 3:36 PM
SAVE DATE: 9/28/2010 2:38 PM
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707
BR-05

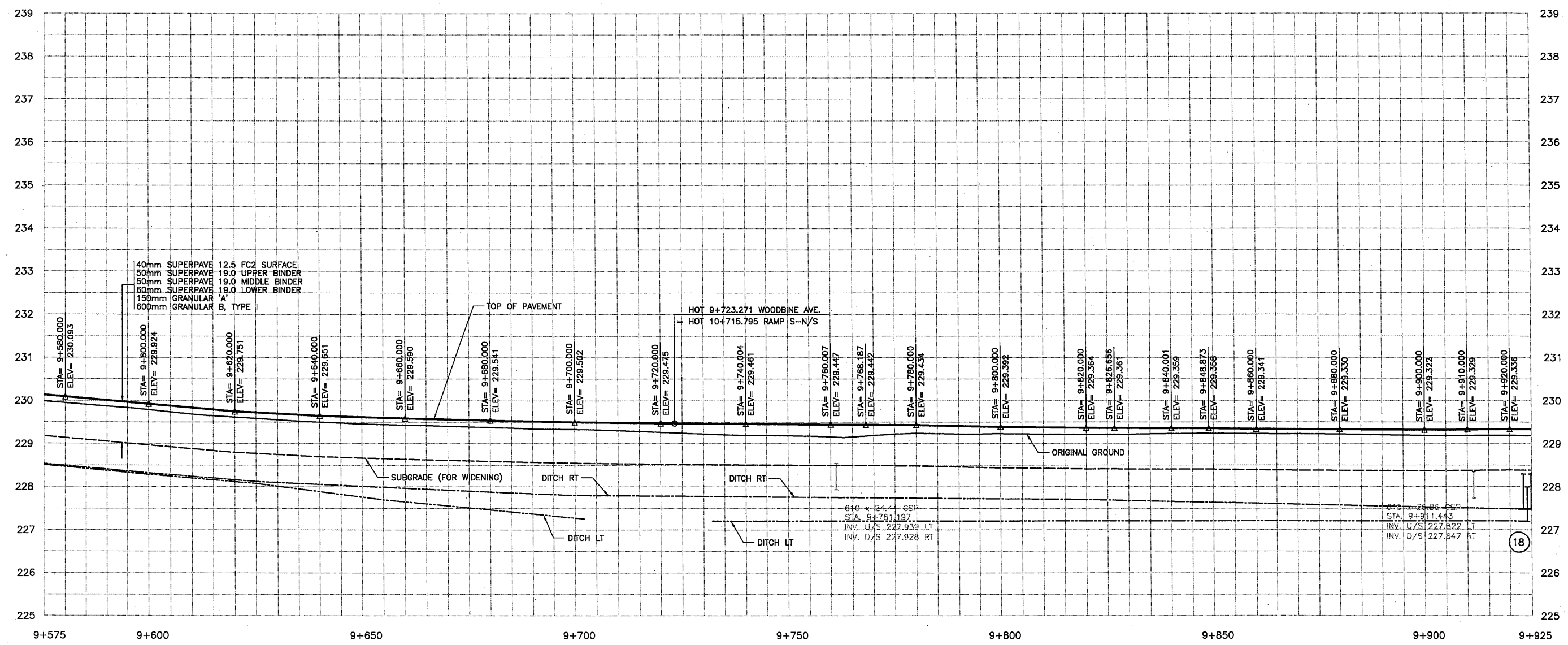
METRIC



COMMUTER'S PARKING LOT - SEWER PROFILE



COMMUTER'S PARKING LOT ENTRANCE - SEWER PROFILES



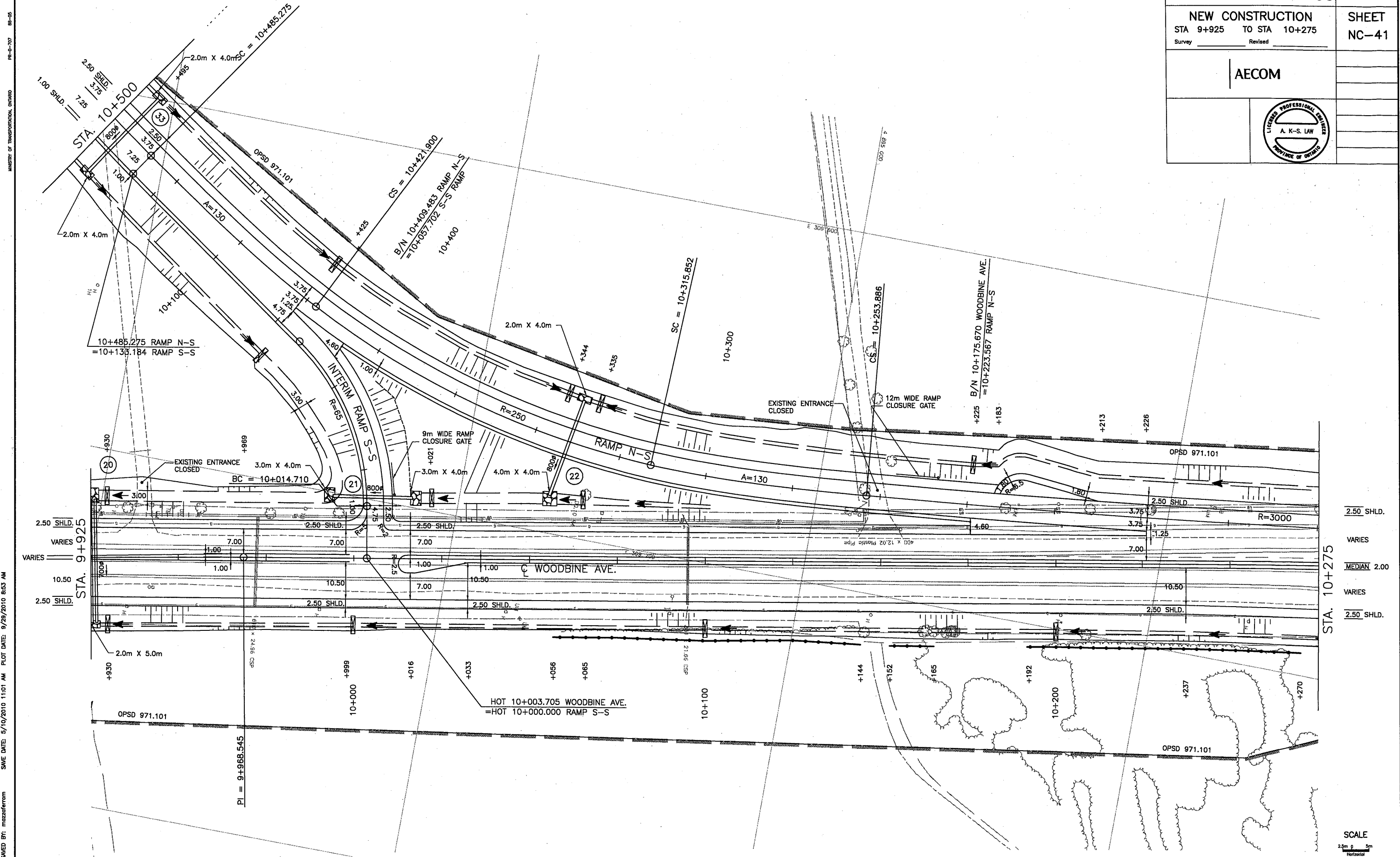
WOODBINE AVENUE

PLATE No		SHEET NC-40
CONT WP 2005-07-00		
PROFILES STA 9+575 TO STA 9+925 Survey _____ Revised _____		
AECOM		

SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

SHEET
NC-41

A circular seal for a Licensed Professional Engineer. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the name "A. K-S. LAW" is printed. The seal is divided horizontally by a thick line.



SCALE
0 5m
horizontal

METRIC

PLATE No
CONT
WP 2005-07-00

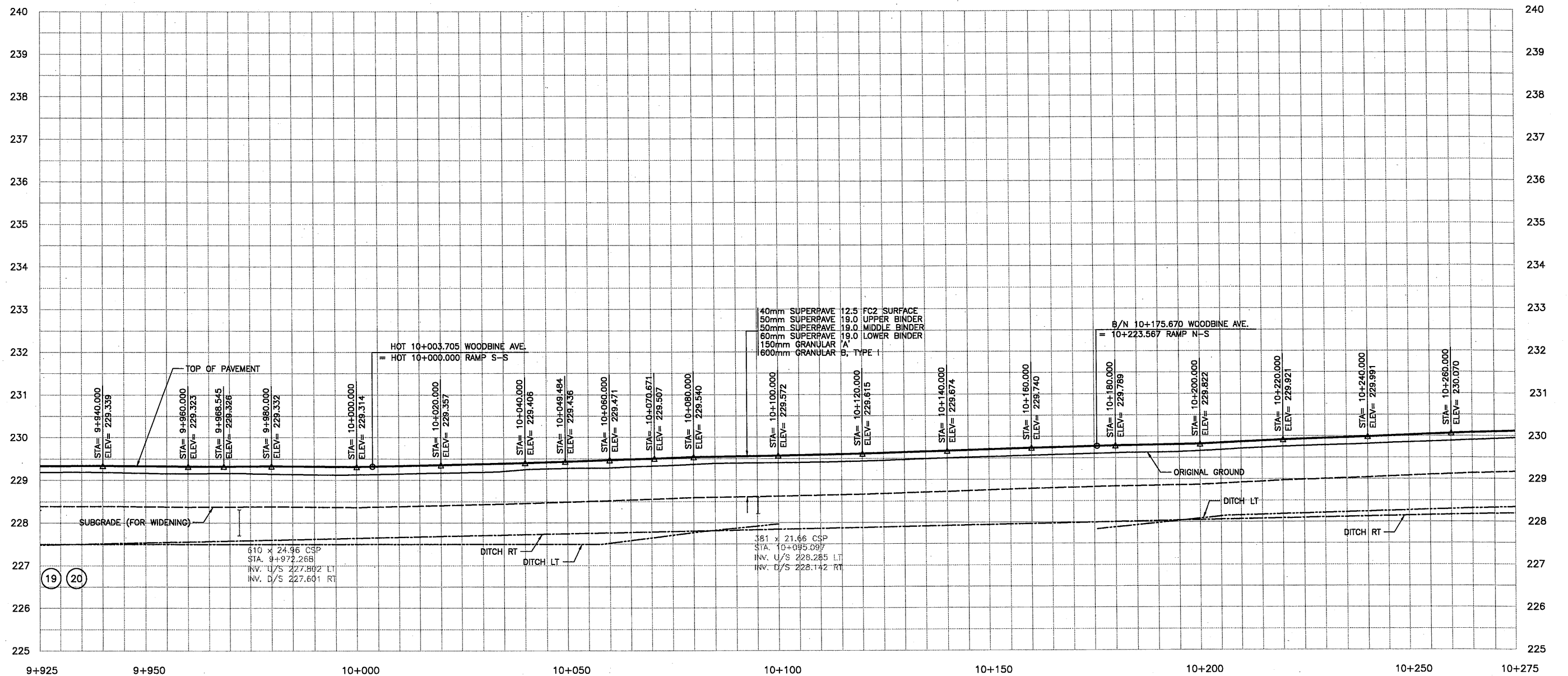
PROFILES
STA 9+925 TO STA 10+275
Survey Revised

SHEET
NC-42

AECOM



DRAWING NAME: 2538-198-00-01-NC-42.dwg
SAVED BY: mazzferrom
PLOT DATE: 9/29/2010 8:53 AM
PLOT DATE: 9/29/2010 11:02 AM



WOODBINE AVENUE

SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

GENERAL NOTES

1. ALL CONCRETE CURB AND GUTTER TERMINATIONS TO BE CONSTRUCTED AS PER OPSD 608.010.
2. ALL CONCRETE CURB RAMPS TO BE CONSTRUCTED AS PER OPSD 310.030.

METRIC

PLATE No

CONT

WP 2005-07-00

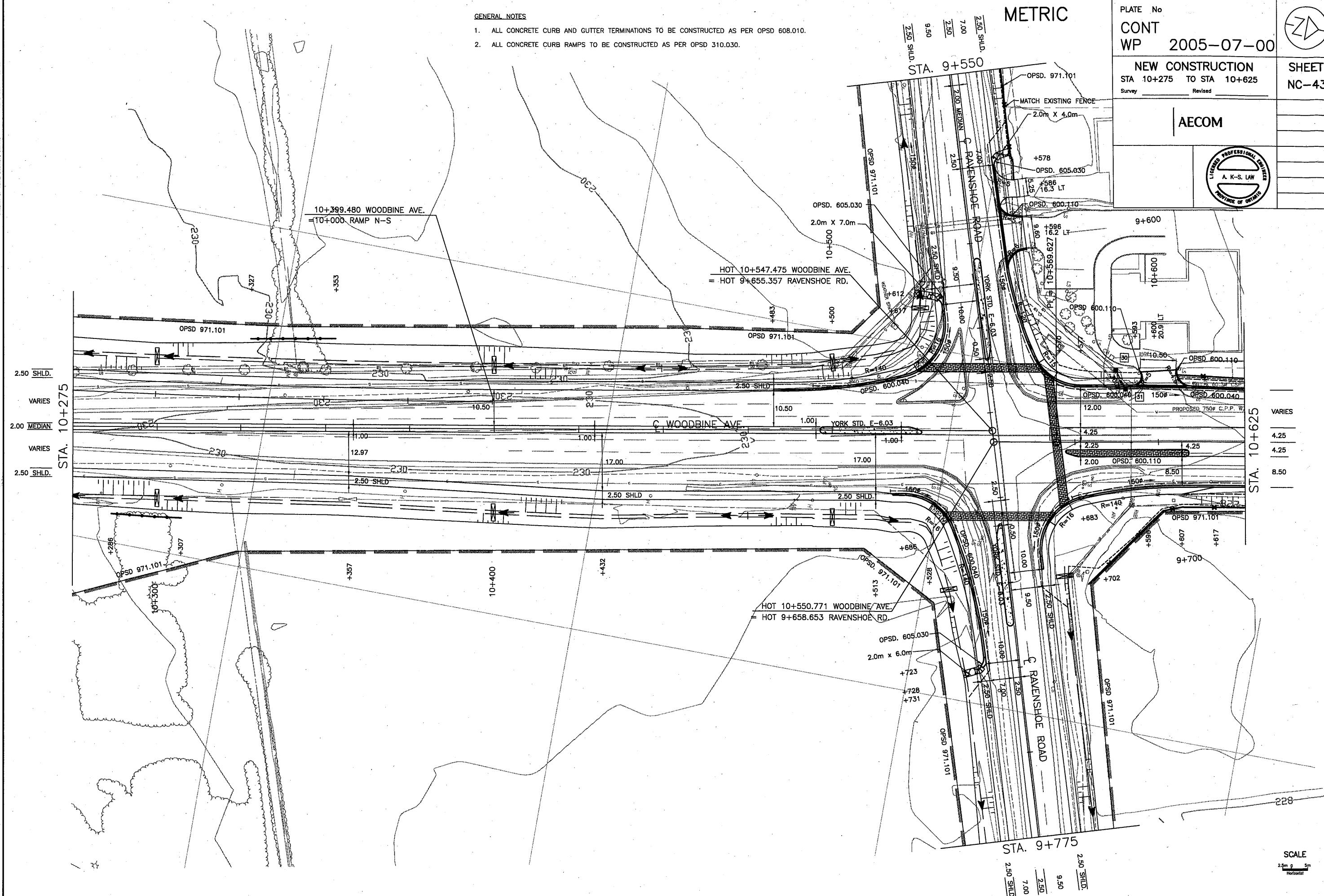
NEW CONSTRUCTION

Survey	Revised
--------	---------

AECOM



SHEET
NC-43



SCALE

2.5m 0 5

Horizontal

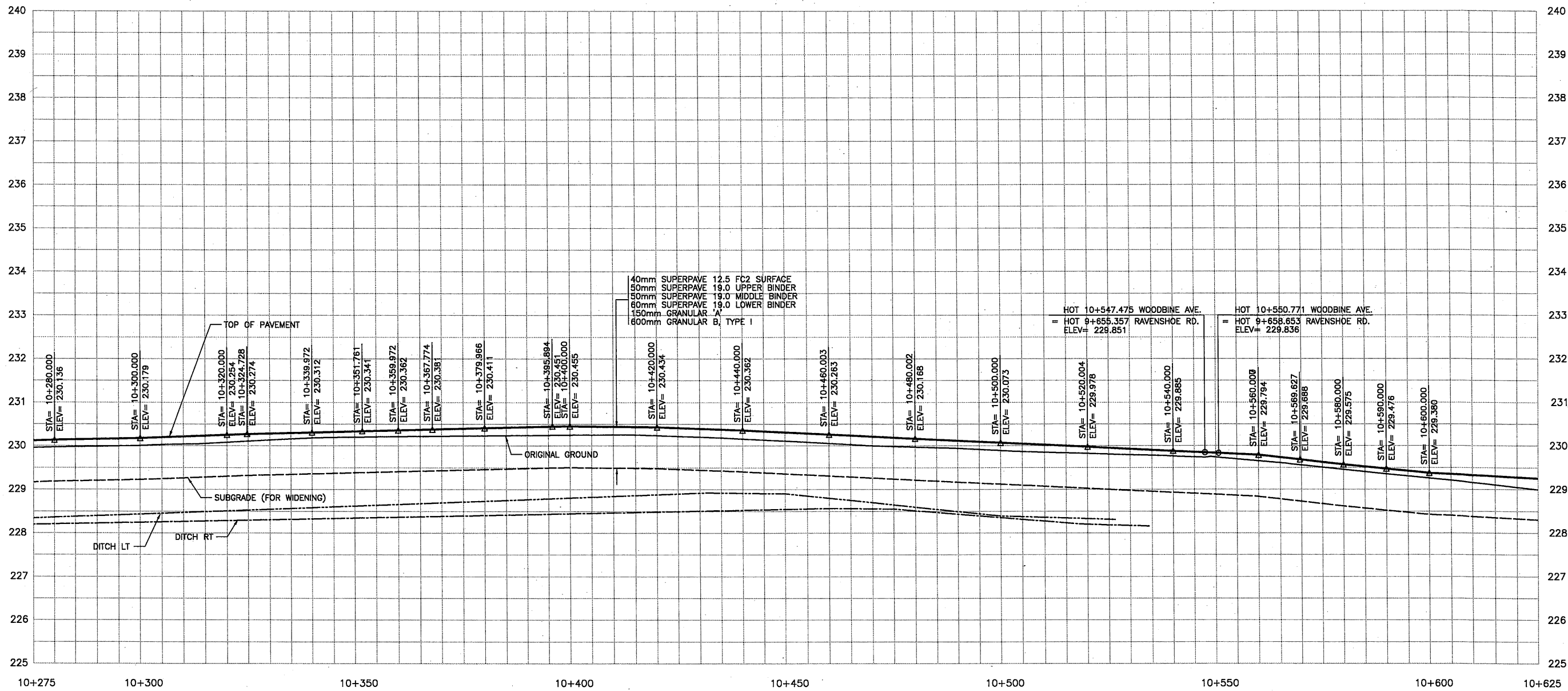
METRIC

PLATE No
CONT
WP 2005-07-00

PROFILES
STA 10+275 TO STA 10+625
Survey _____ Revised _____

SHEET
NC-44

AECOM

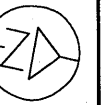


WOODBINE AVENUE

SCALE

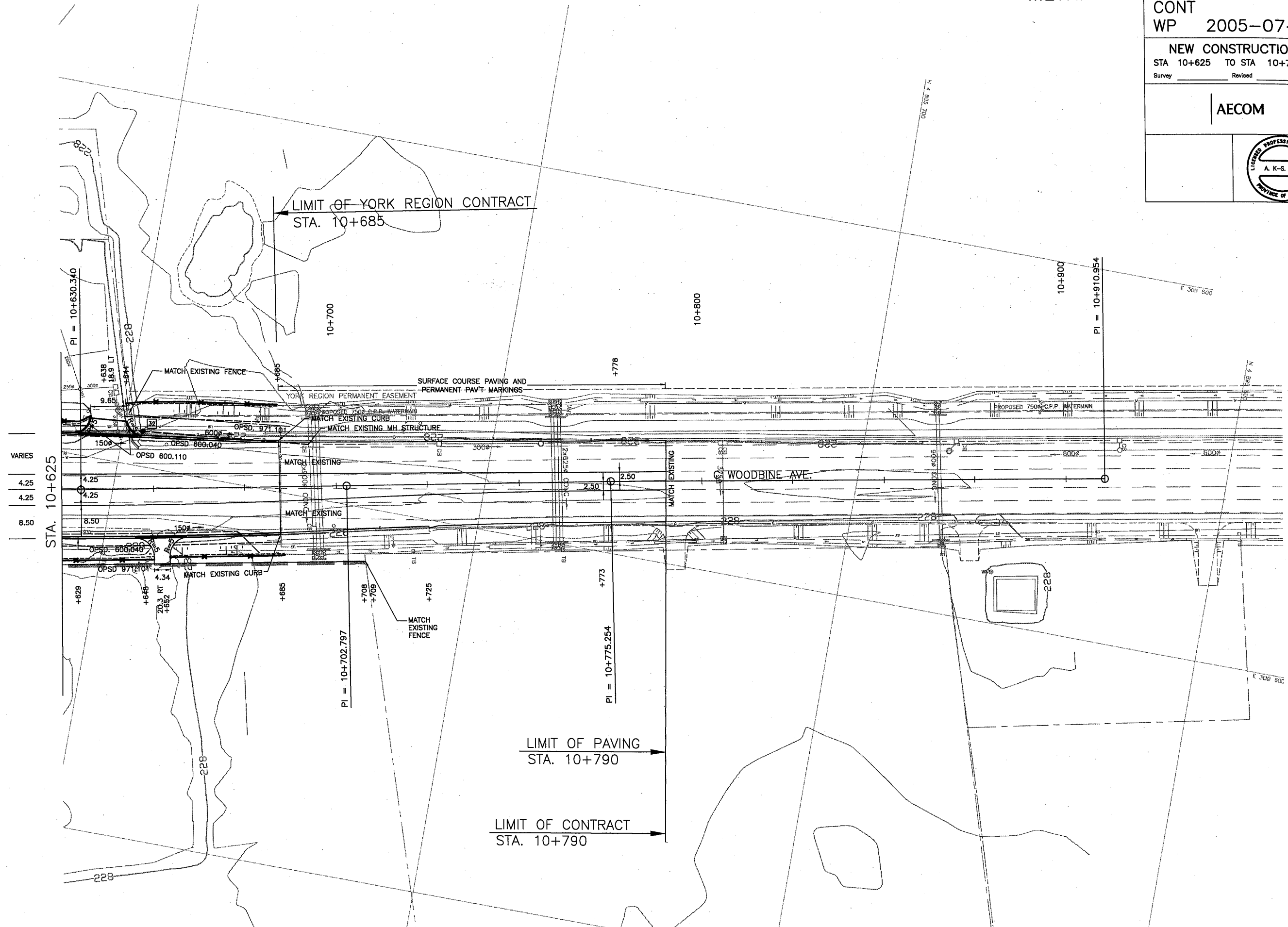


PLATE No	
CONT	
WP	2005-07-00
NEW CONSTRUCTION	
STA 10+625	TO STA 10+790
Survey _____	Revised _____



SHEET
NC-45

AECOM



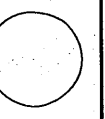
SCALE

0 5m

horizontal

METRIC

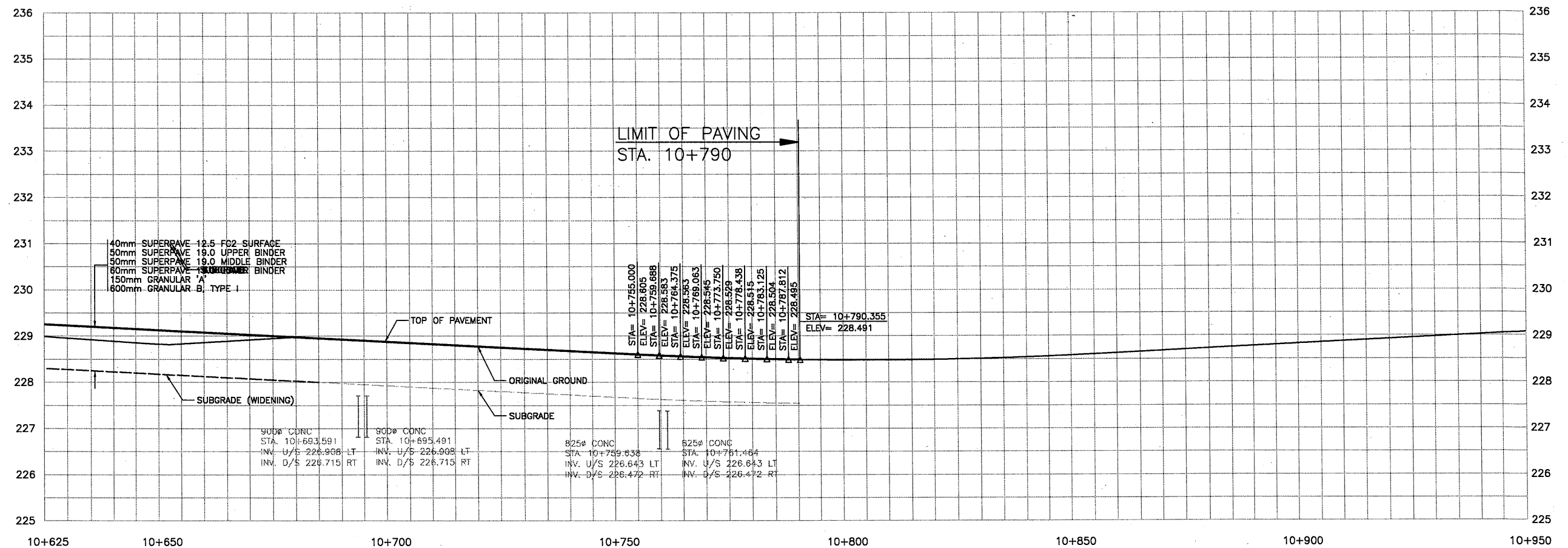
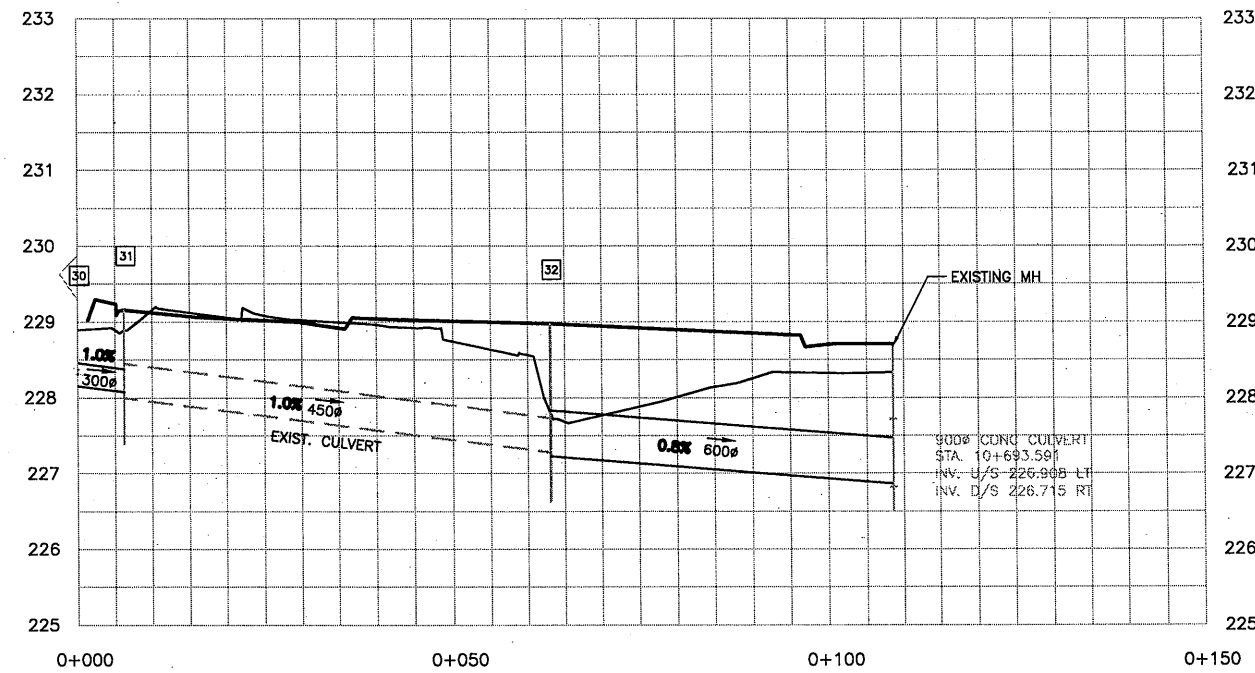
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 10+625 TO STA 10+790
Survey Revised

SHEET
NC-46

AECOM



WOODBINE AVENUE

SCALE

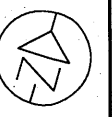


METRIC

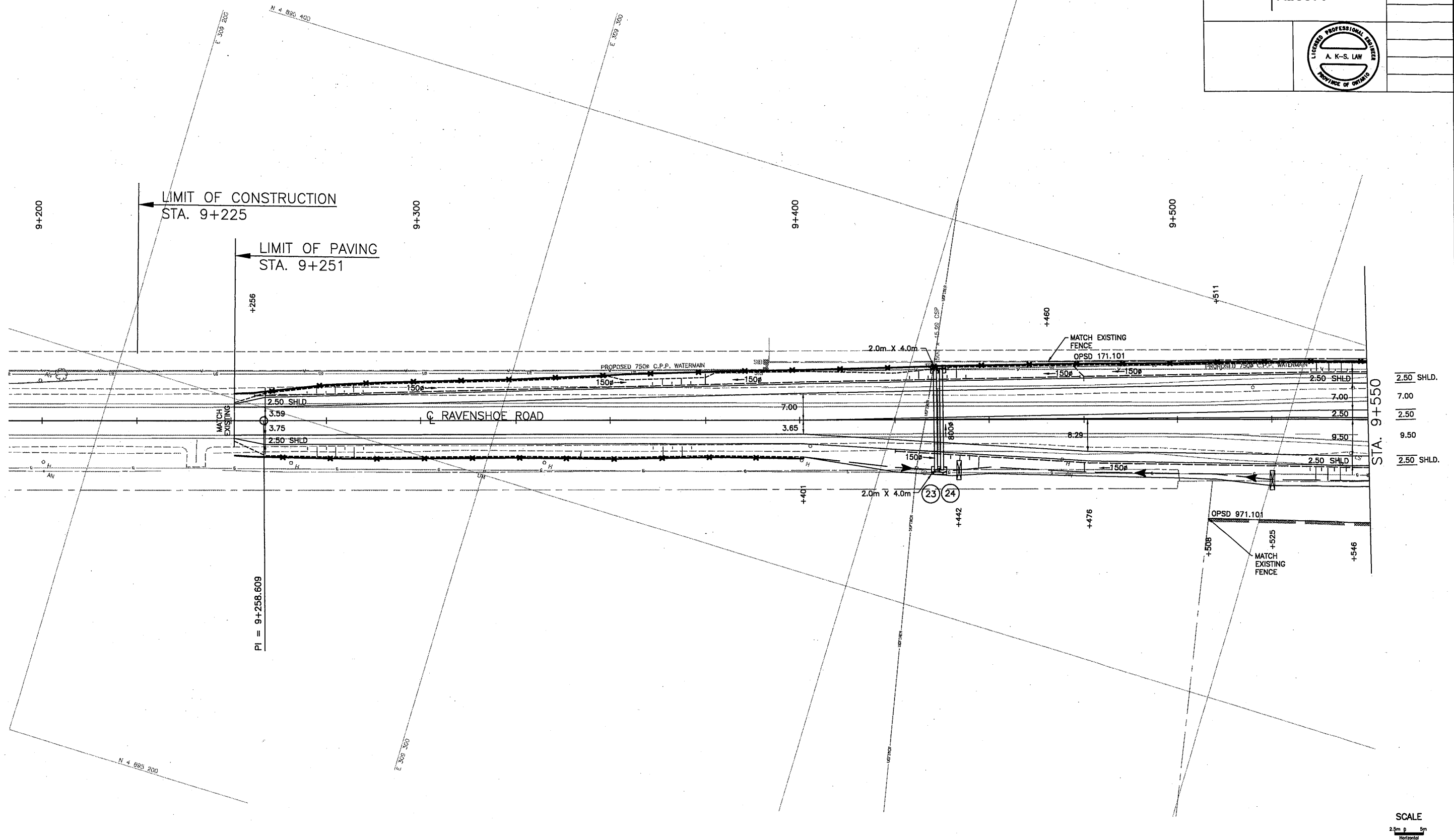
PLATE No
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WP 2005-07-00

NEW CONSTRUCTION
STA 9+256 TO STA 9+550
Survey _____ Revised _____

AECOM

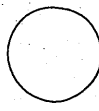


SHEET
NC-47



METRIC

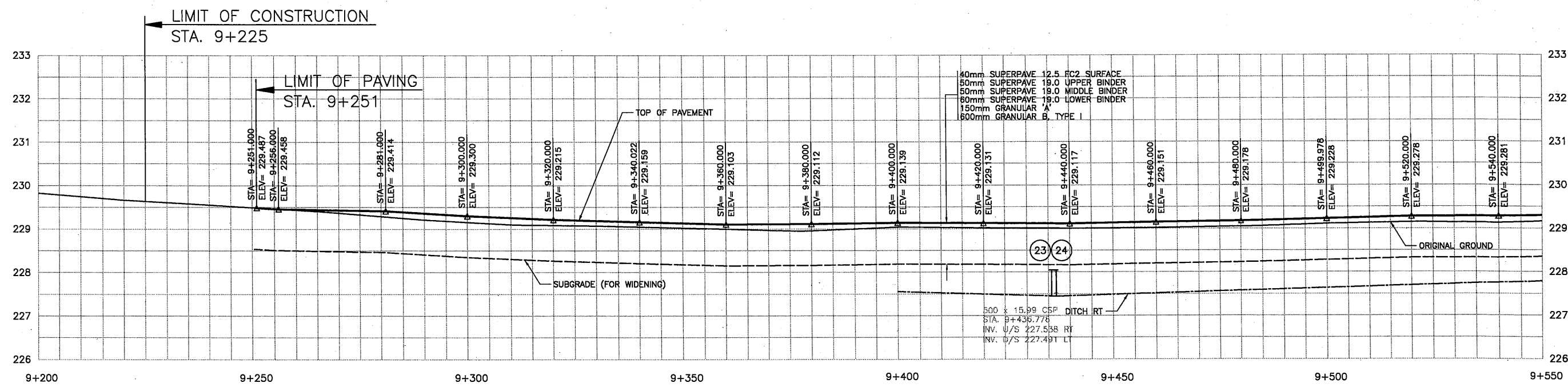
PLATE No
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WP 2005-07-00



PROFILES
STA 9+225 TO STA 9+550
Survey Revised

SHEET
NC-48

AECOM



RAVENSHOE ROAD

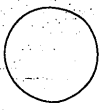
SCALE
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Horizontal
0.25m p 0.5m
Vertical

DRAWING NAME: 2538-199-00_CT-NC-48.dwg
SAVED BY: mazzaferron
SAVE DATE: 5/27/2010 8:50 AM
PLOT DATE: 9/29/2010 8:55 AM

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

METRIC

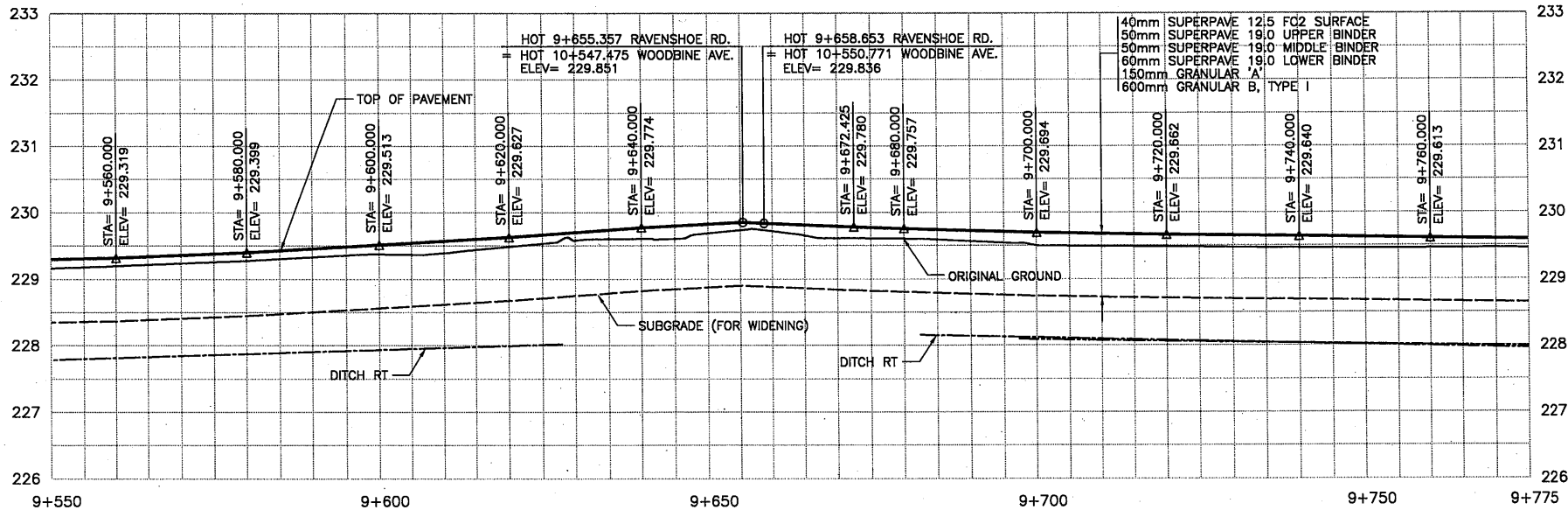
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 9+550 TO STA 9+775
Survey Revised

SHEET
NC-49

AECOM



RAVENSHOE ROAD

SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

METRIC

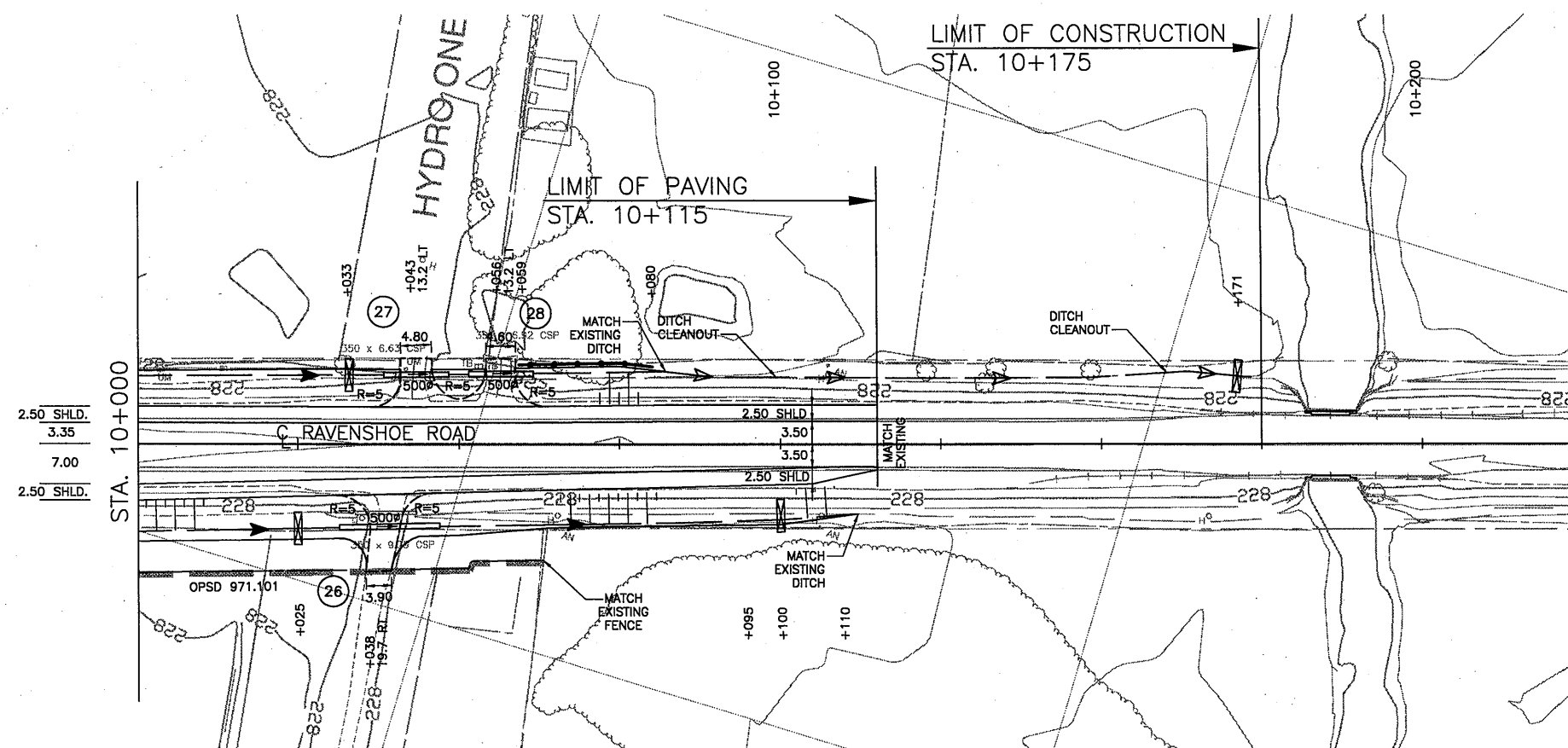
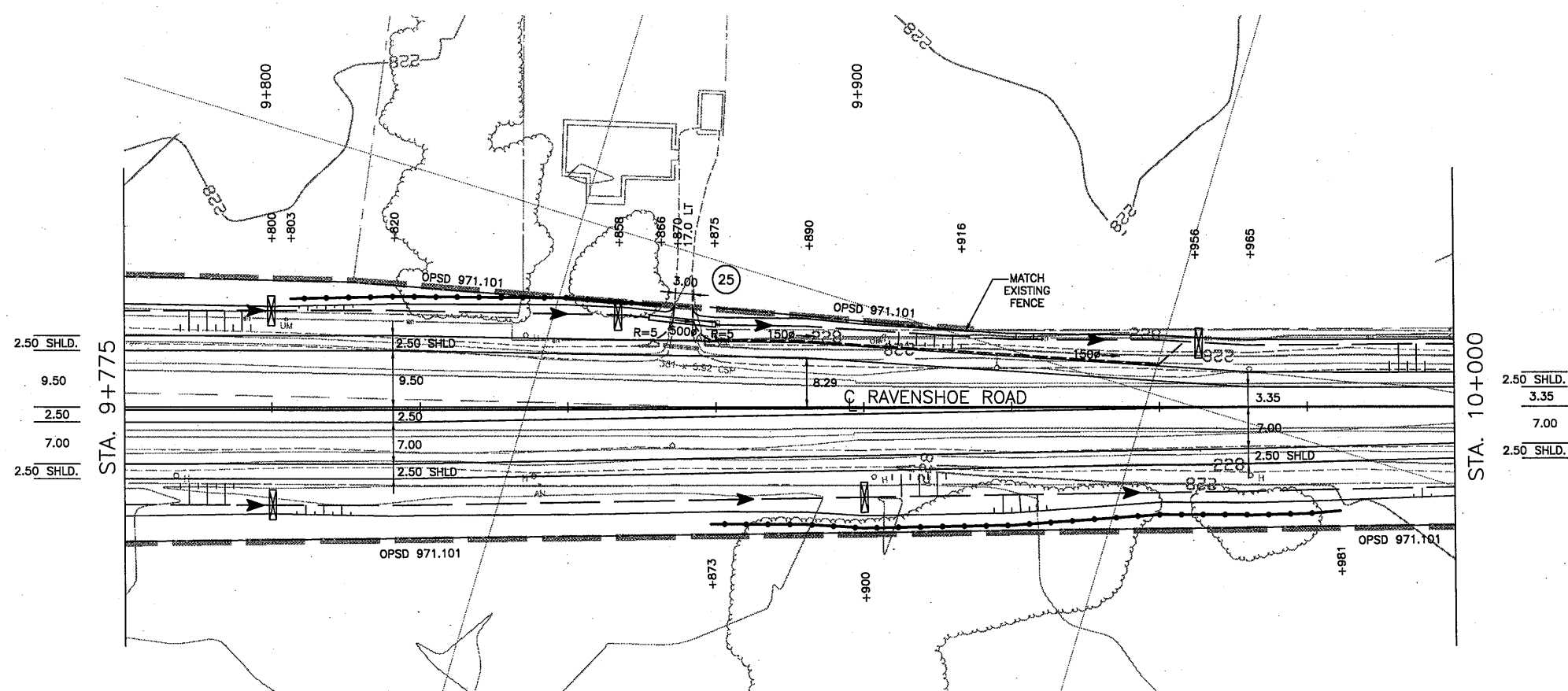
PLATE No
CONT
WP 2005-07-00



NEW CONSTRUCTION
STA 9+775 TO STA 10+110
Survey _____ Revised _____

SHEET
NC-50

AECOM



SCALE
2.5m 5m
Horizontal

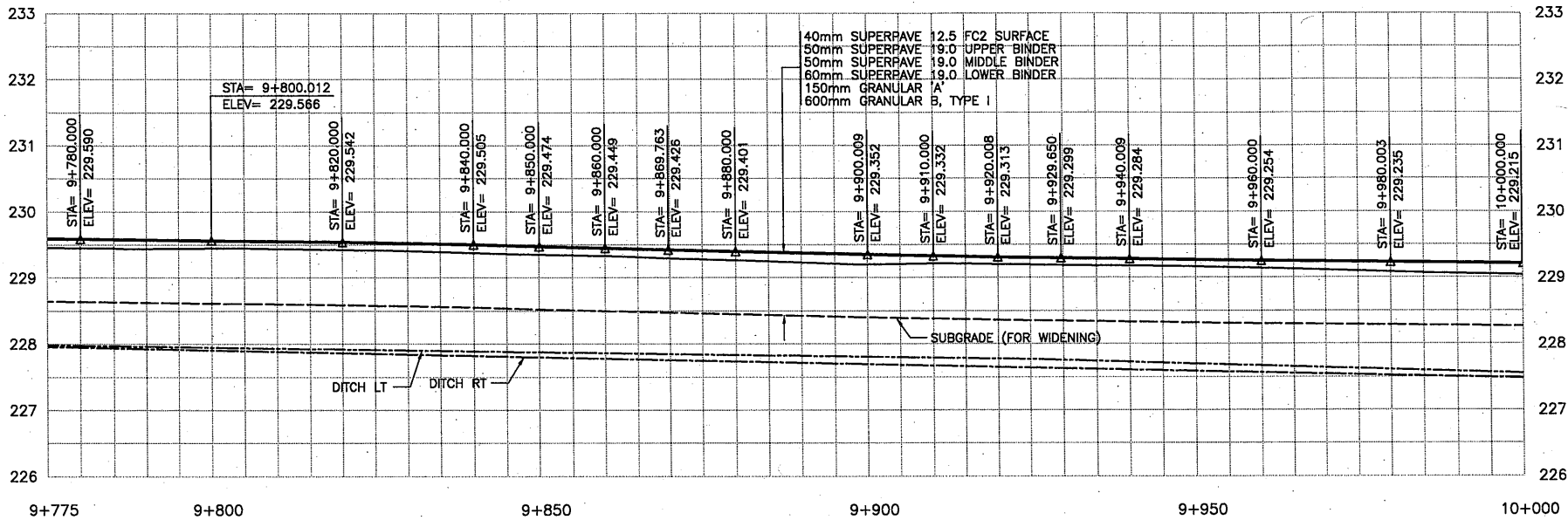
METRIC

PLATE No
CONT
WP 2005-07-00

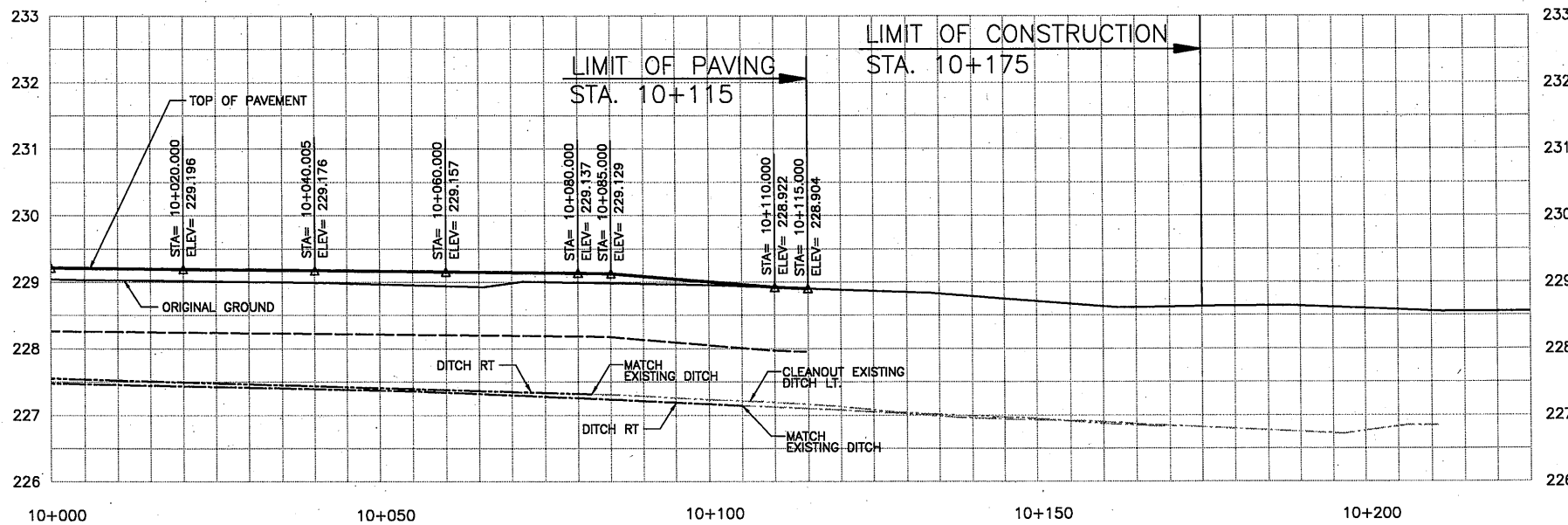
PROFILES
STA 9+775 TO STA 10+175
Survey Revised

SHEET
NC-51

AECOM



RAVENSHOE ROAD



RAVENSHOE ROAD

SCALE



METRIC

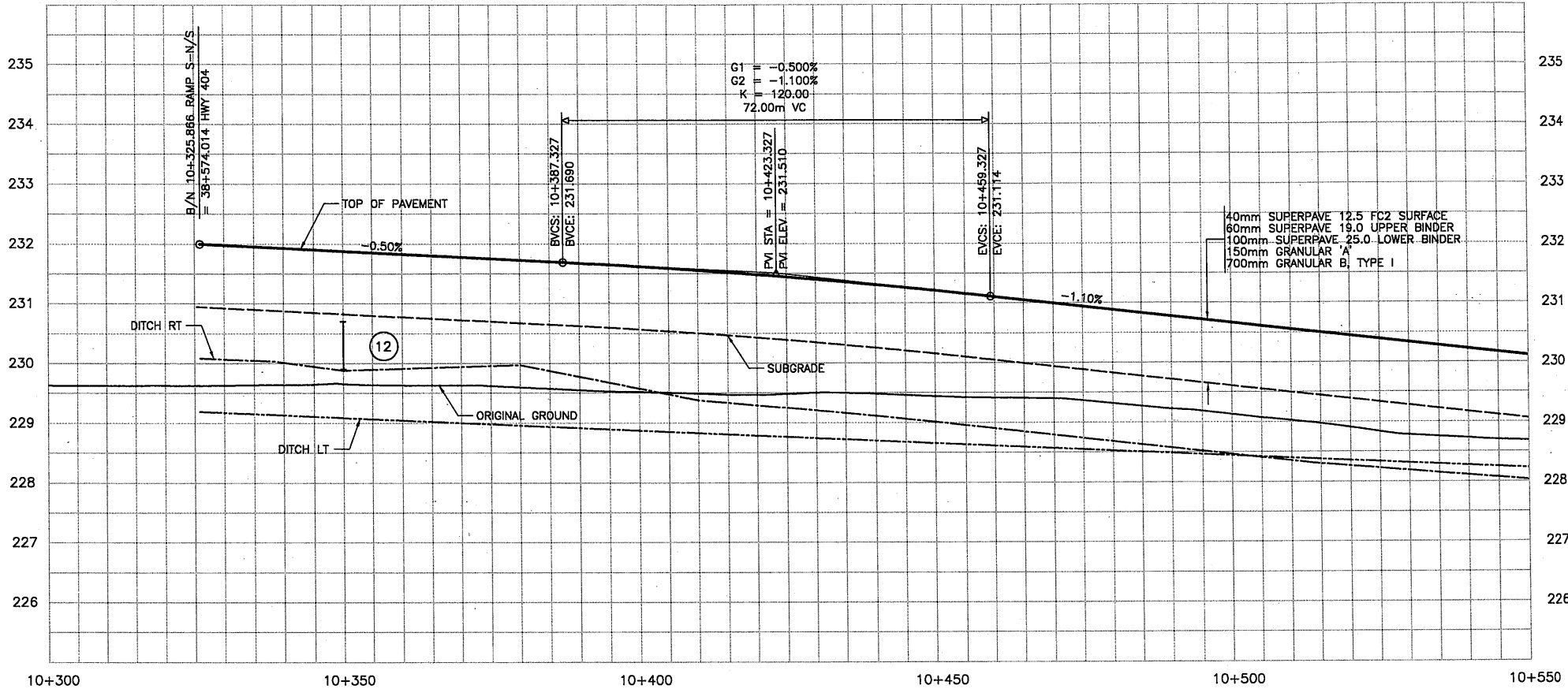
PLATE No
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WP 2005-07-00

S-N/S RAMP PROFILE
STA 10+325 TO STA 10+716
Survey _____ Revised _____

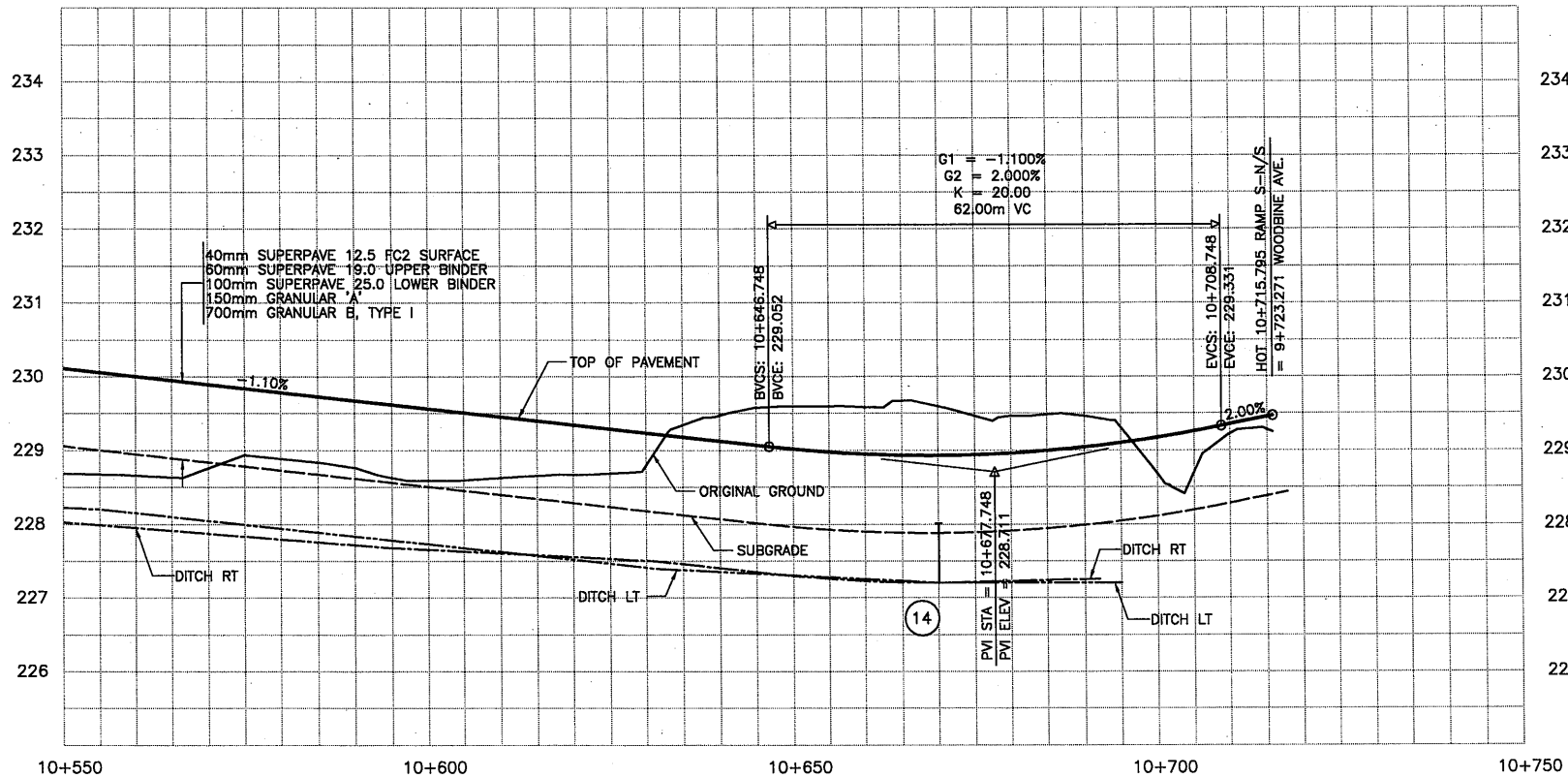
AECOM



SHEET
NC-52



RAMP S-N/S



RAMP S-N/S

SCALE
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Horizontal
0.25m p 0.5m
Vertical

METRIC

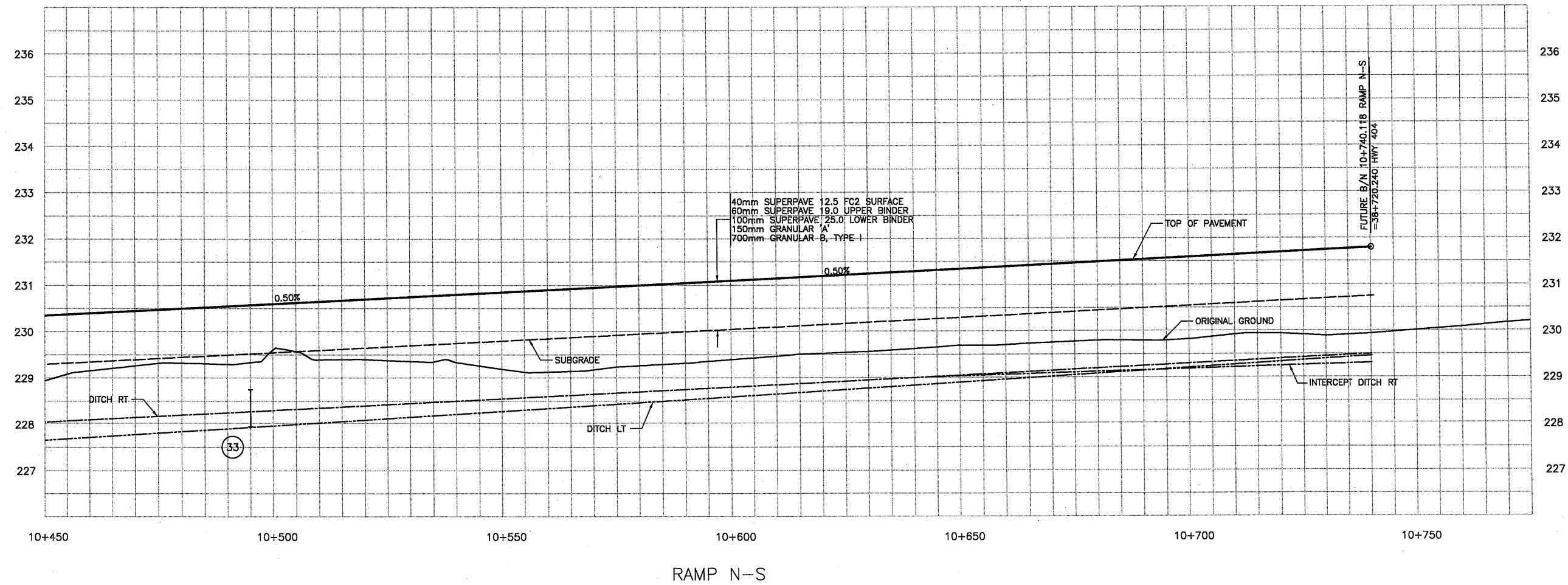
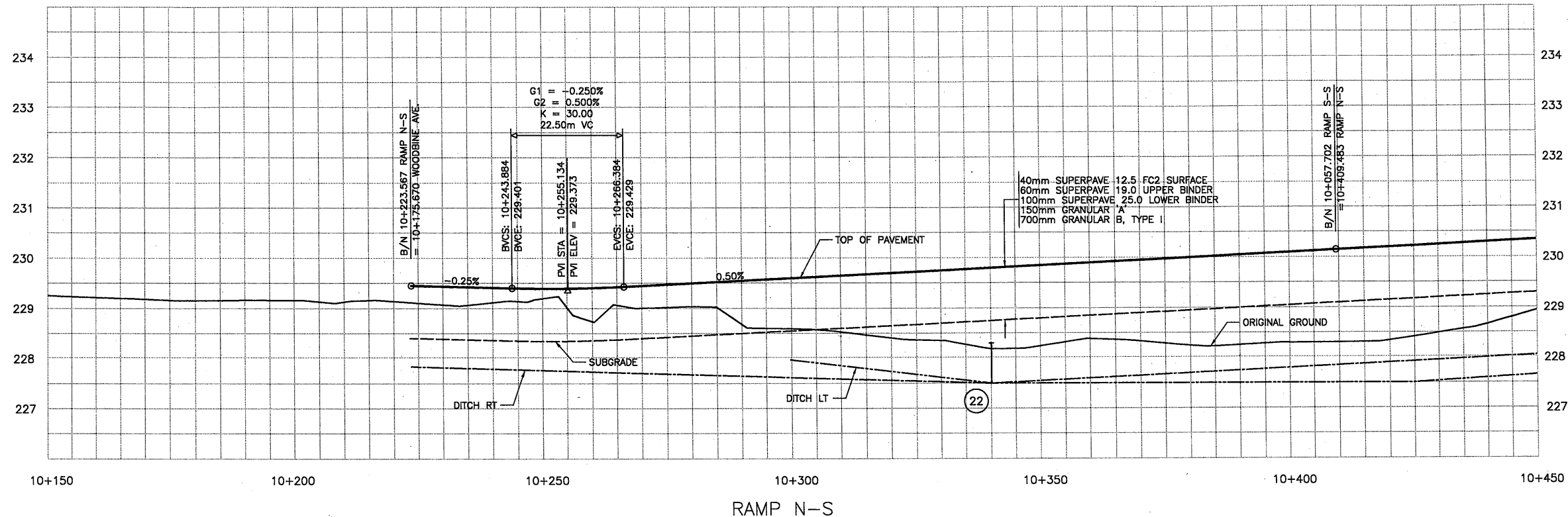
PLATE No
CONT
WP 2005-07-00

SHEET
NC-53

N-S RAMP PROFILE
STA 10+223 TO STA 10+740

Survey Revised

AECOM

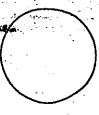


SCALE
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Horizontal
0.25m p 0.5m
Vertical

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 08-05
DRAWING NAME: 2530-199-00-OT-NC-53.dwg
SAVE DATE: 5/10/2010 11:25 AM
PLOT DATE: 9/29/2010 8:56 AM
SAVE BY: mazzaferron

METRIC

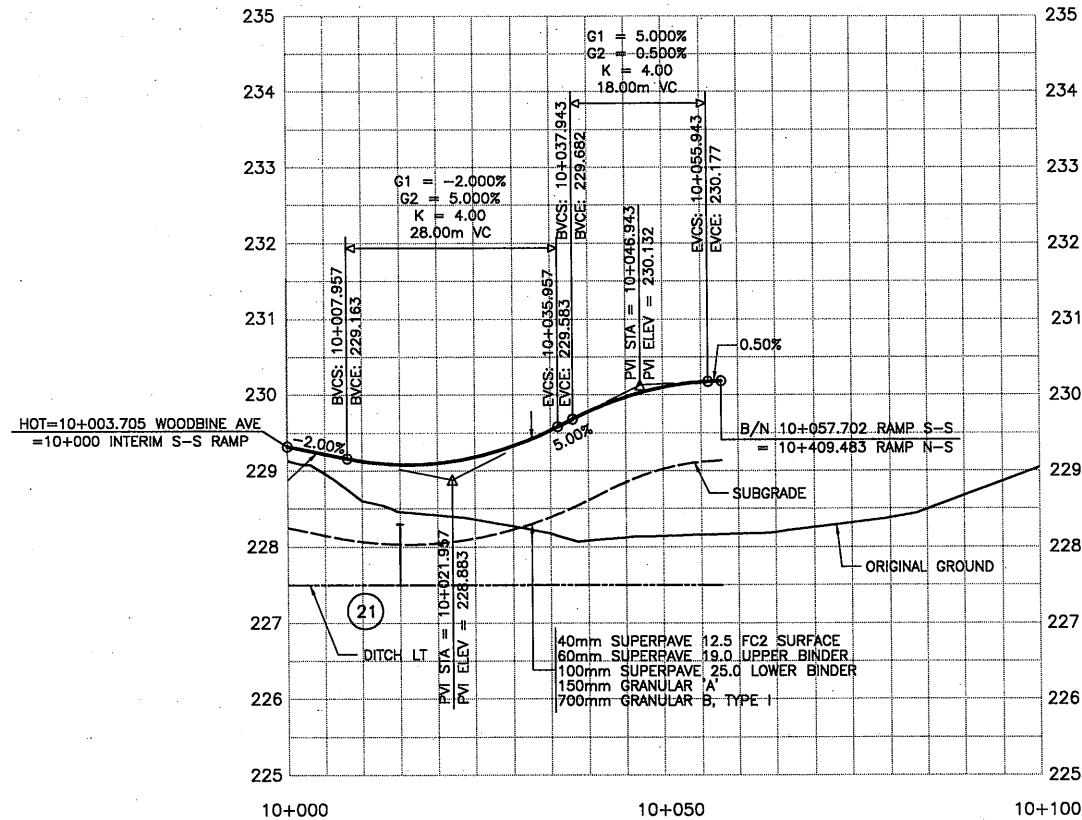
PLATE No
CONT
WP 2005-07-00



PROFILES
STA 10+000 TO STA 10+058
Survey Revised

SHEET
NC-54

AECOM



INTERIM S-S RAMP

SCALE



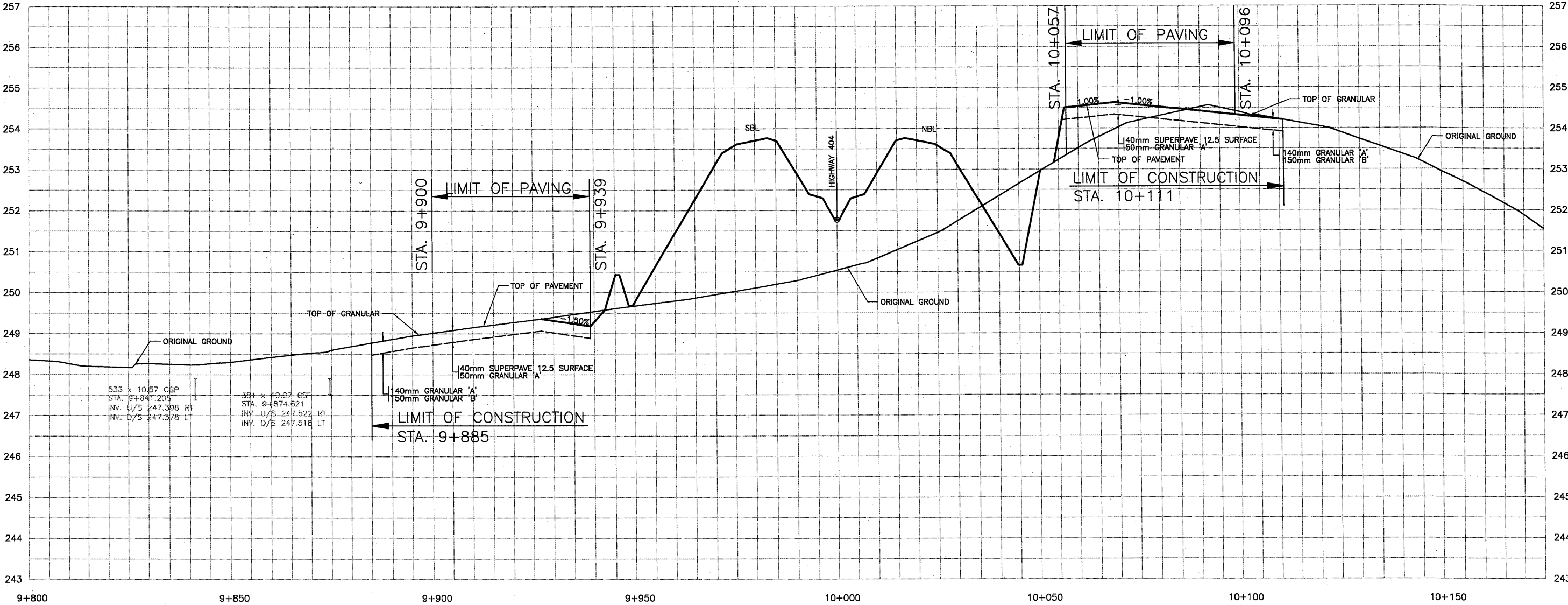
METRIC

PLATE No
CONT
WP 2005-07-00

HOLBORN RD.PROFILE
STA 9+800 TO STA 10+150
Survey Revised

SHEET
NC-55

AECOM



HOLBORN ROAD

SCALE



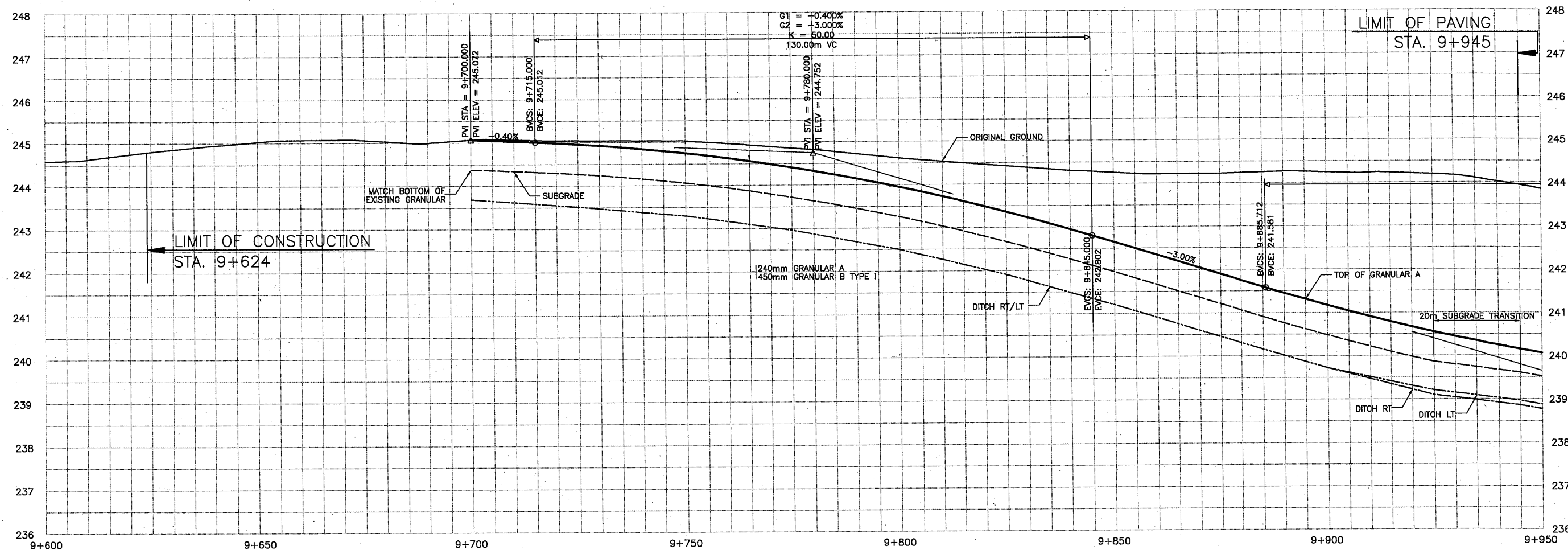
METRIC

PLATE No
CONT
WP 2005-07-00

BOAG RD. PROFILE
STA 9+624 TO STA 9+950
Survey _____ Revised _____

SHEET
NC-56


AECOM

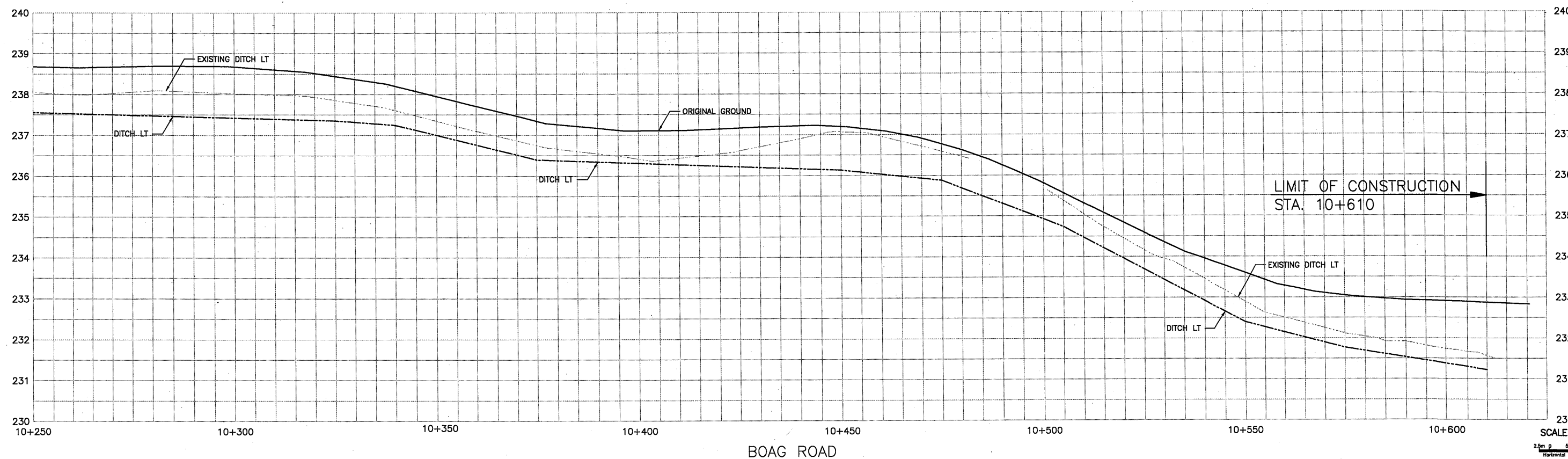
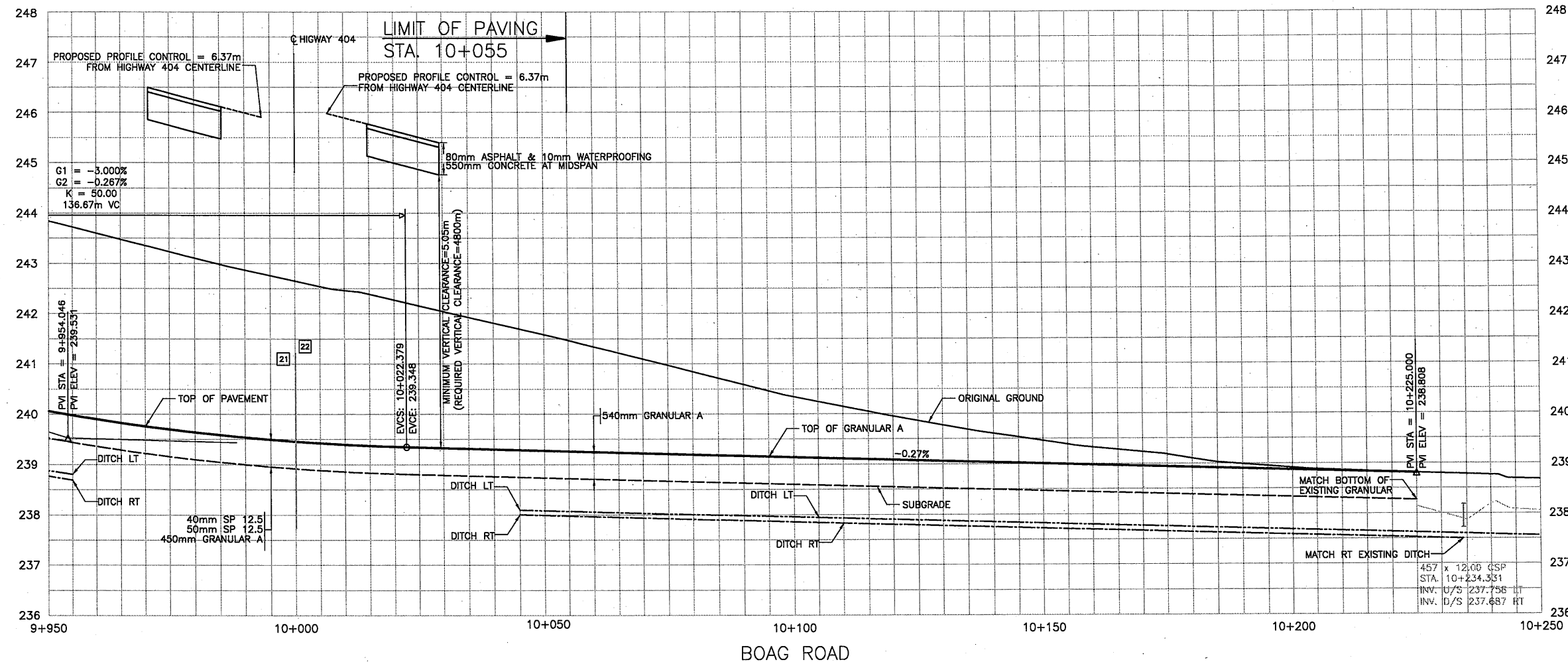


BOAG ROAD

SCALE
0.25m H 0.5m V

METRIC

PLATE No		SHEET NC-57
CONT WP 2005-07-00		
BOAG RD. PROFILE		
STA 9+950	TO STA 10+610	
Survey	Revised	
AECOM		
		

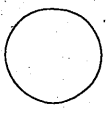


SCALE
2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05
DRAWING NAME: 2538-199-00-01-NC-57.dwg
SAVED BY: mazzolenom
PLOT DATE: 9/29/2010 8:56 AM
SAVE DATE: 5/25/2010 8:47 PM

METRIC

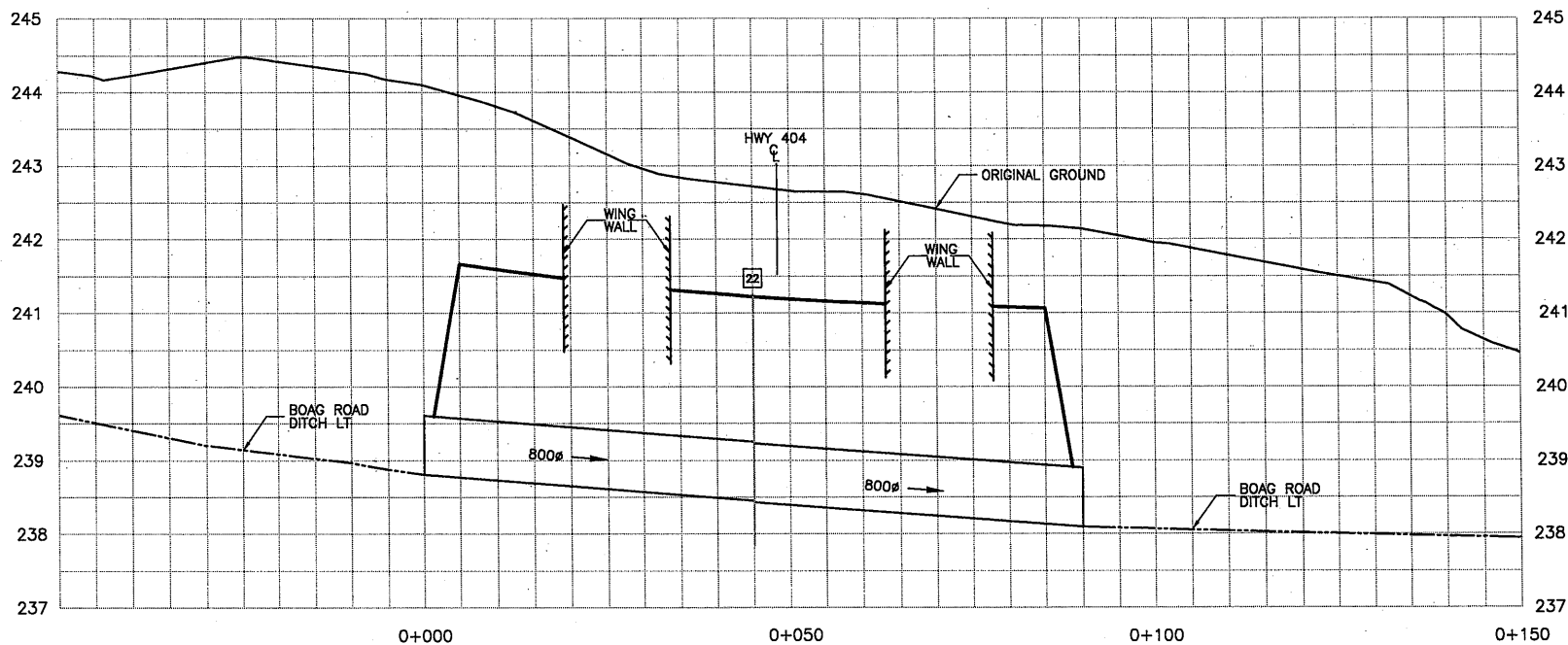
PLATE No
CONT
WP 2005-07-00



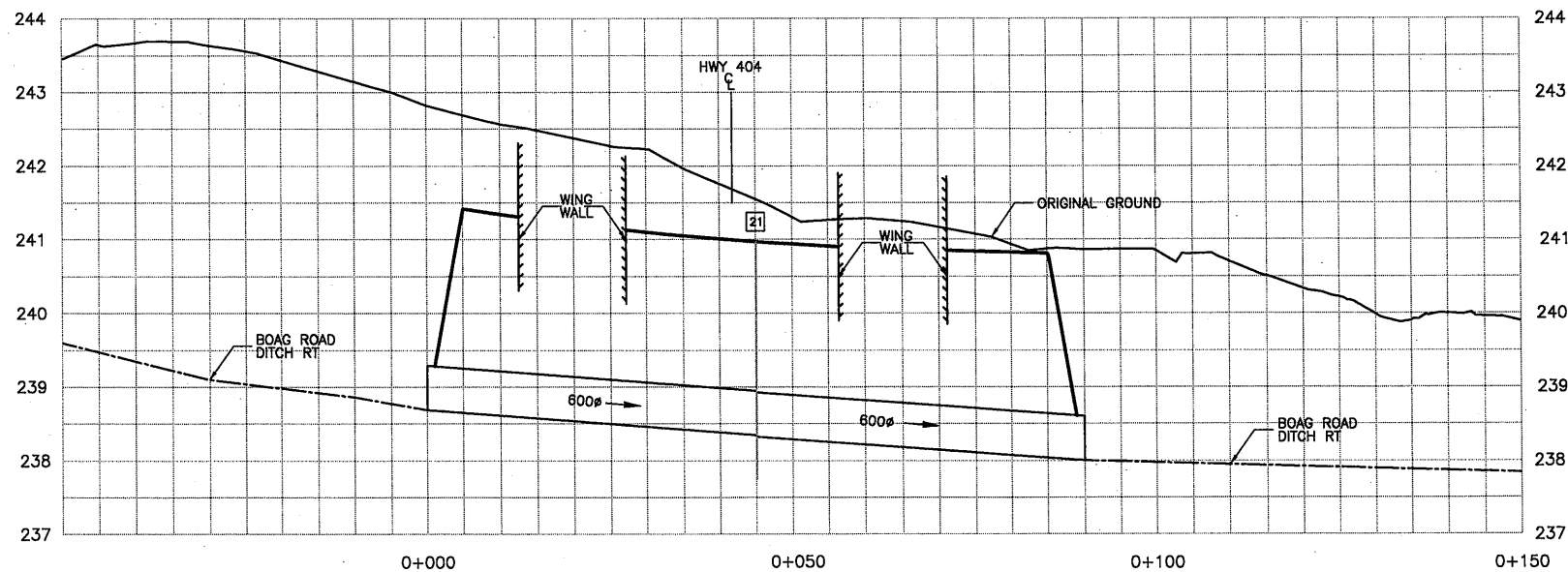
BOAG RD. SEWER PROFILES
STA TO STA
Survey Revised

SHEET
NC-58

AECOM



BOAG ROAD SEWER PROFILE (NORTH SIDE)



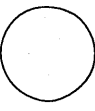
BOAG ROAD SEWER PROFILE (SOUTH SIDE)

SCALE

2.5m p 5m
Horizontal
0.25m p 0.5m
Vertical

METRIC

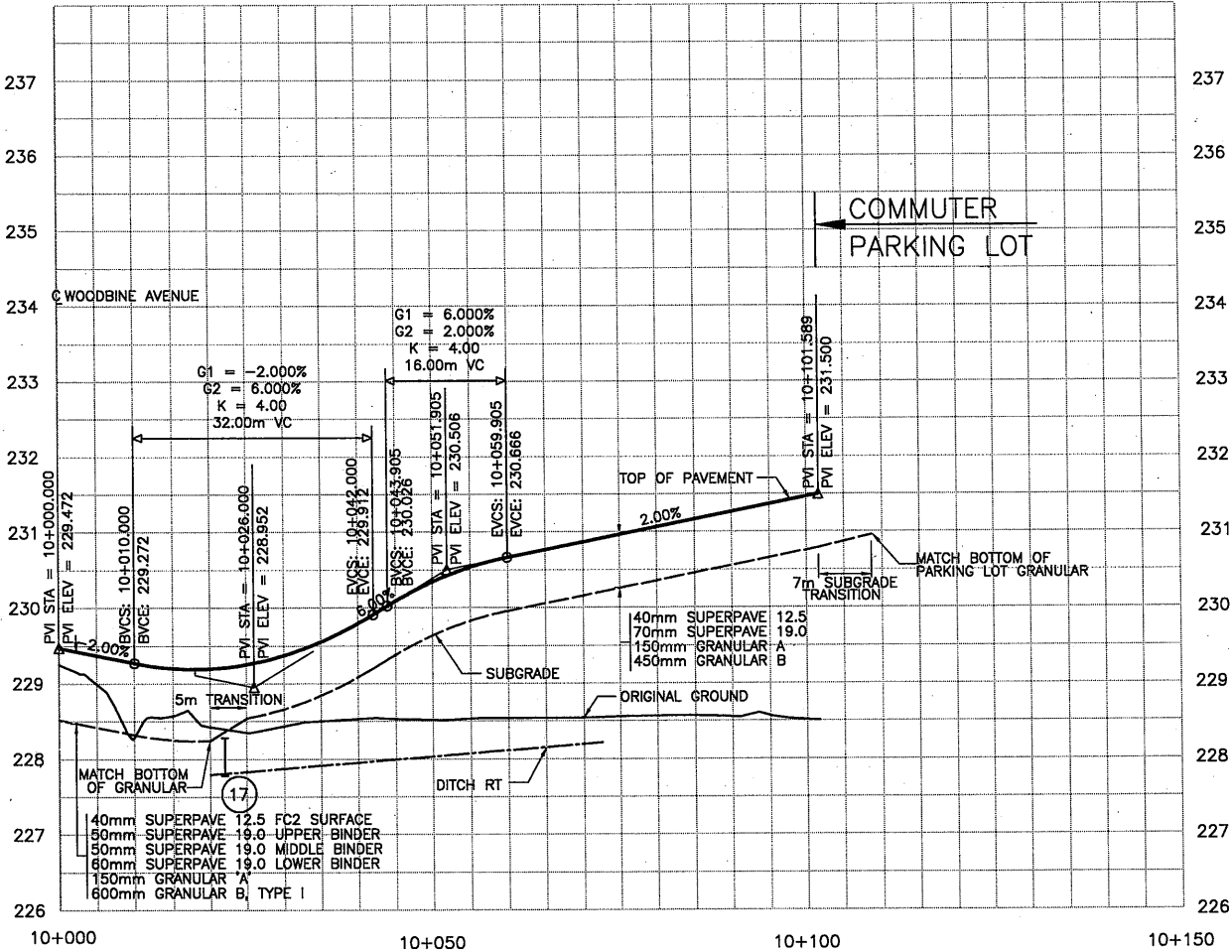
PLATE No
CONT
WP 2005-07-00



PARKING LOT PROFILE
STA 10+000 TO STA 10+150
Survey _____ Revised _____

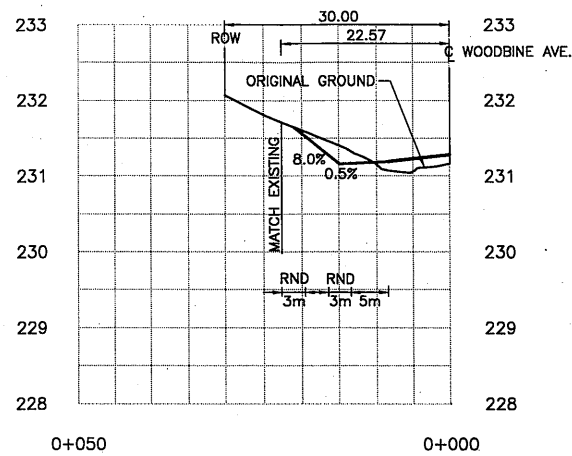
SHEET
NC-59

AECOM

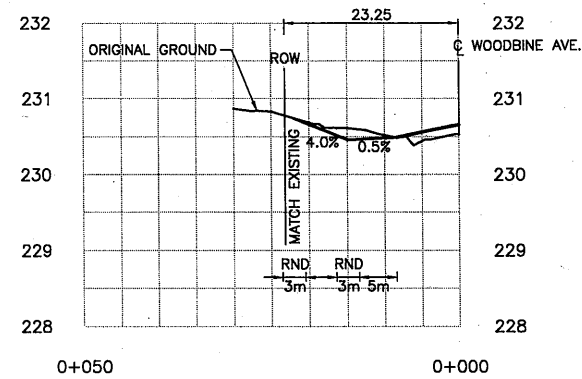


COMMUTER PARKING LOT ENTRANCE

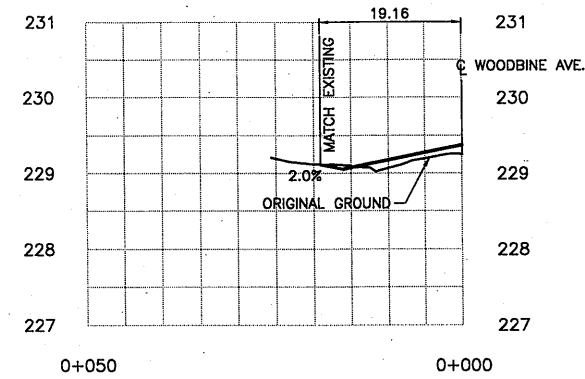
SCALE
2.5m @ 5m
Horizontal
0.25m @ 0.5m
Vertical



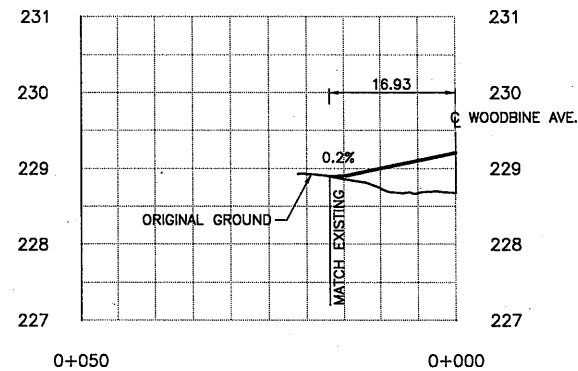
WOODBINE AVENUE
GRANULAR ENTRANCE (STA 9+454 LT)



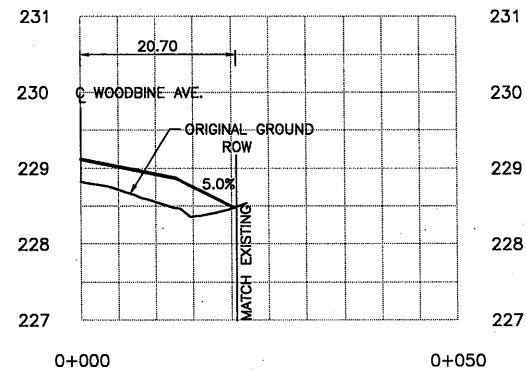
WOODBINE AVENUE
GRANULAR ENTRANCE (STA 9+517 LT)



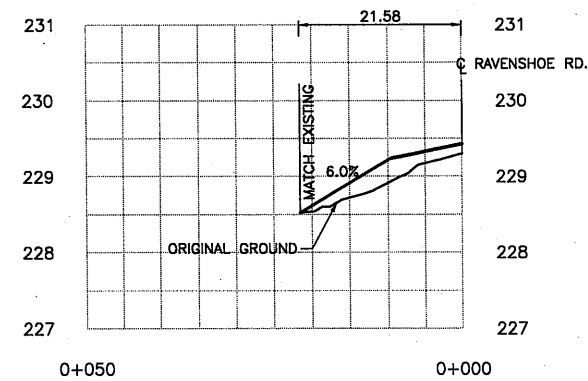
WOODBINE AVENUE
COMMERCIAL ENTRANCE (STA 10+600 LT)
(NOTE: SEE SHEET MISC-03 FOR PAVEMENT DETAILS)



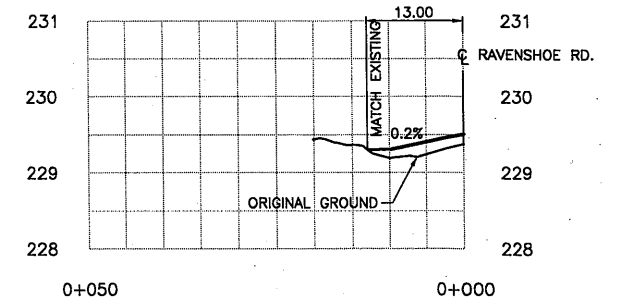
WOODBINE AVENUE
COMMERCIAL ENTRANCE (STA 10+638 LT)
(NOTE: SEE SHEET MISC-03 FOR PAVEMENT DETAILS)



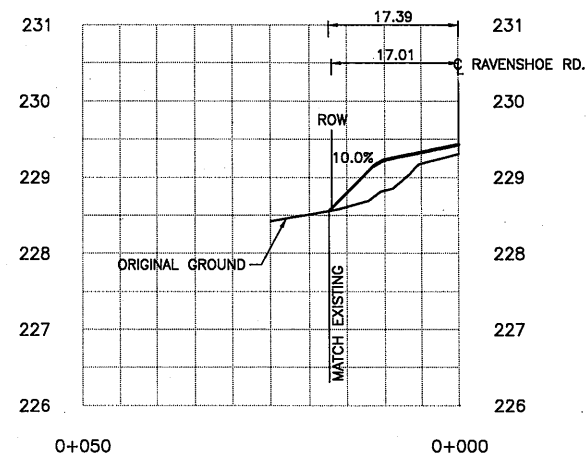
WOODBINE AVENUE
PAVED ENTRANCE (STA 10+652 RT)



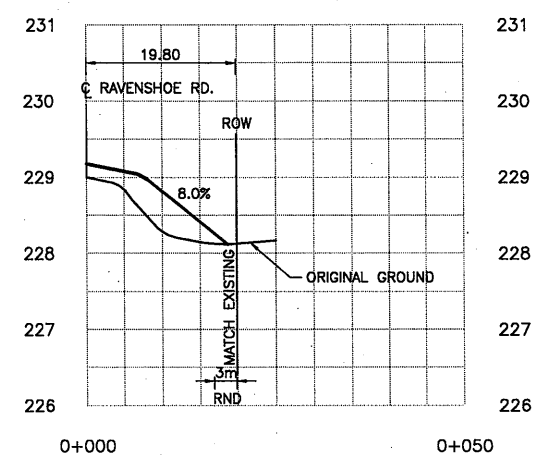
RAVENSHOE ROAD
PAVED ENTRANCE (STA 9+586 LT)
(NOTE: SEE SHEET MISC-03 FOR PAVEMENT DETAILS)



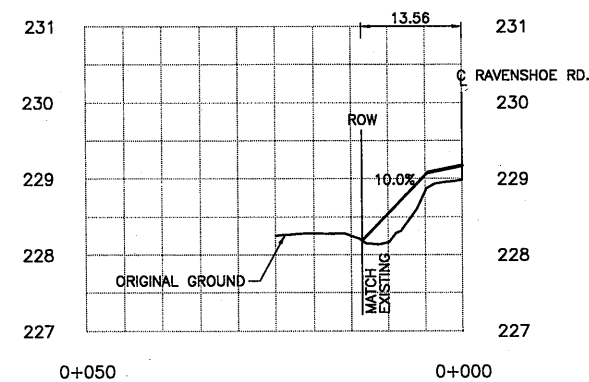
RAVENSHOE ROAD
COMMERCIAL ENTRANCE (STA 9+596 LT)
(NOTE: SEE SHEET MISC-03 FOR PAVEMENT DETAILS)



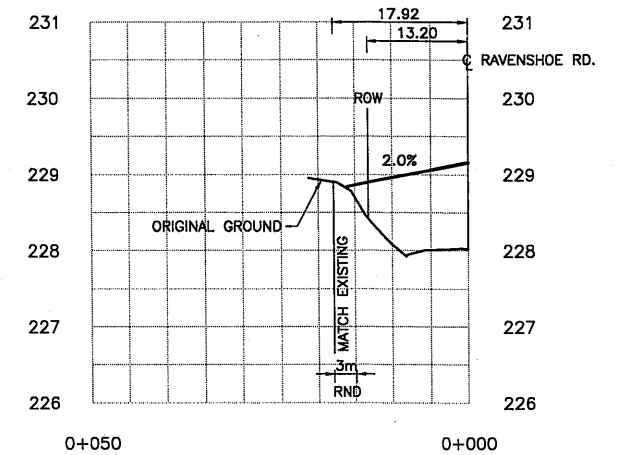
RAVENSHOE ROAD
GRANULAR ENTRANCE (STA 9+870 LT)



RAVENSHOE ROAD
GRANULAR ENTRANCE (STA 10+038 RT)



RAVENSHOE ROAD
GRANULAR ENTRANCE (STA 10+043 LT)



RAVENSHOE ROAD
GRANULAR ENTRANCE (STA 10+056 LT)

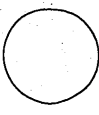
METRIC

PLATE No		SHEET NC-60
CONT WP 2005-07-00		
ENTRANCE PROFILES		
STA	TO STA	
Survey	Revised	
AECOM		

SCALE
2.5m 5m
Vertical

METRIC

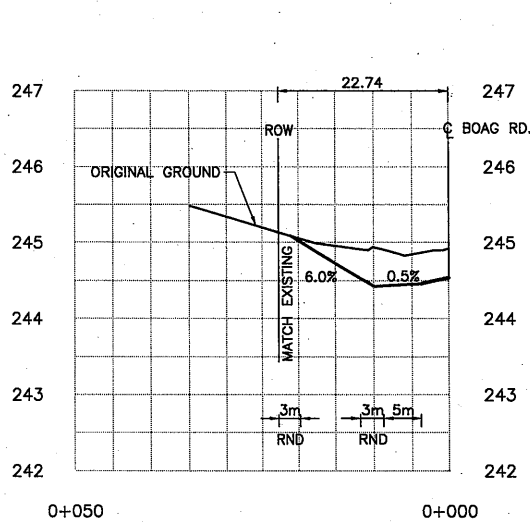
PLATE No
CONT
WP 2005-07-00



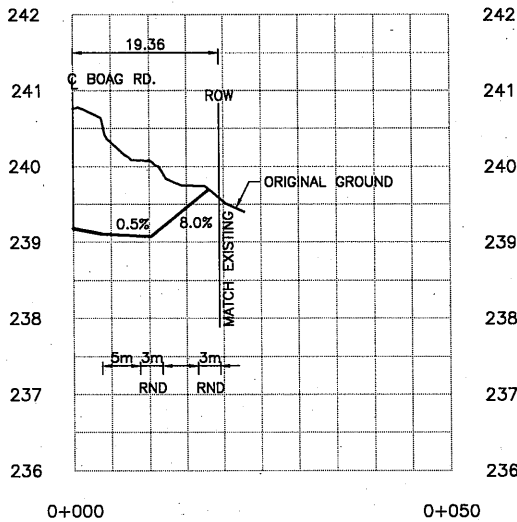
PROFILES
TO STA
Survey Revised

SHEET
NC-61

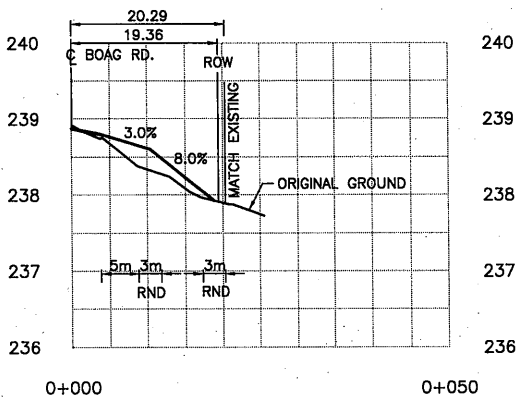
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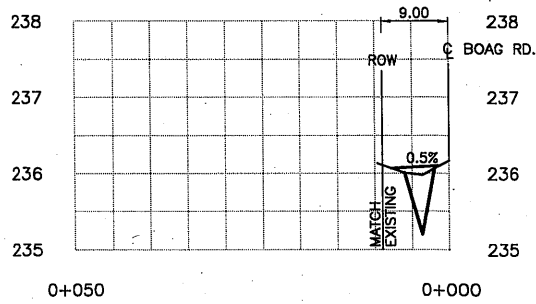
BOAG ROAD
GRANULAR ENTRANCE (STA 9+766 LT)



BOAG ROAD
GRANULAR ENTRANCE (STA 10+083 RT)



BOAG ROAD
GRANULAR ENTRANCE (STA 10+200 RT)



BOAG ROAD
GRANULAR ENTRANCE (STA 10+493 LT)

SCALE
2.5m p 5m
Vertical

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND MULCH/BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

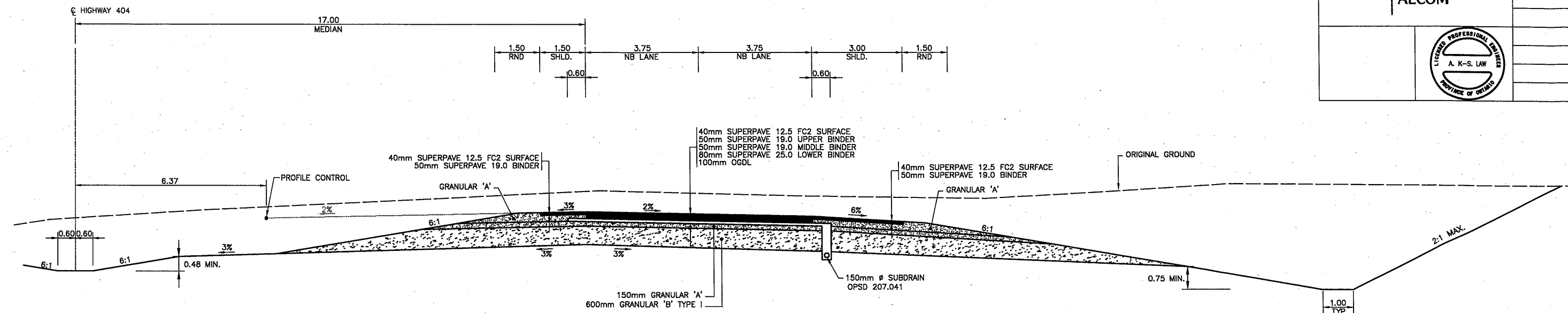
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WP 2005-07-00

TYPICAL SECTIONS

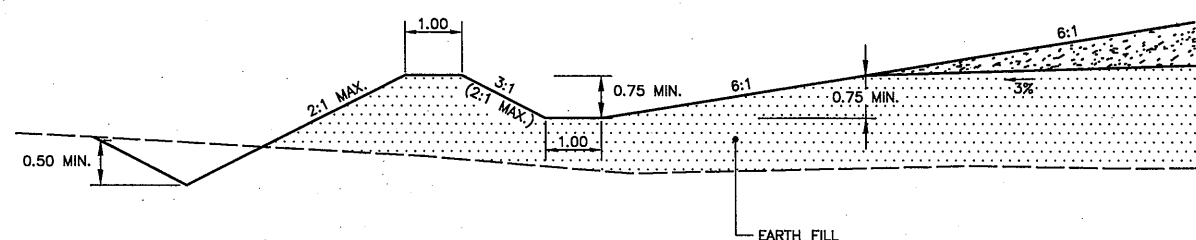
AECOM



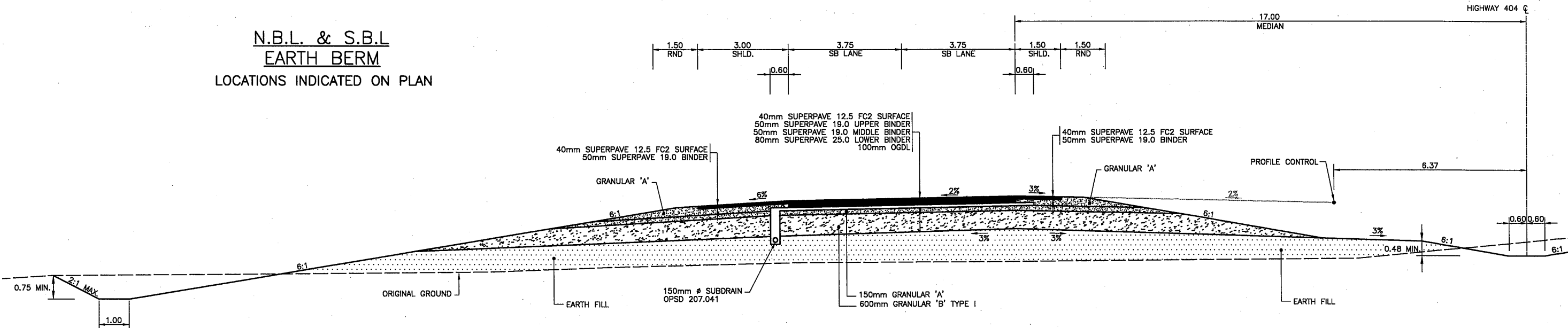
SHEET
TYP-01



HIGHWAY 404 N.B.L. FLEXIBLE PAVEMENT TANGENT



N.B.L. & S.B.L. EARTH BERM LOCATIONS INDICATED ON PLAN



HIGHWAY 404 S.B.L. FLEXIBLE PAVEMENT TANGENT

N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND MULCH/BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

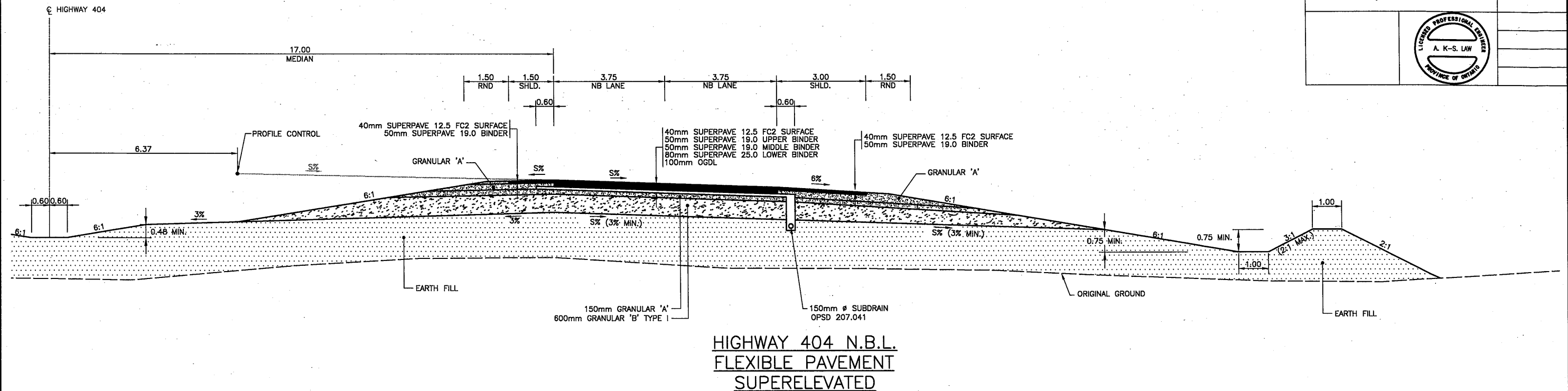
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WP 2005-07-00

TYPICAL SECTIONS

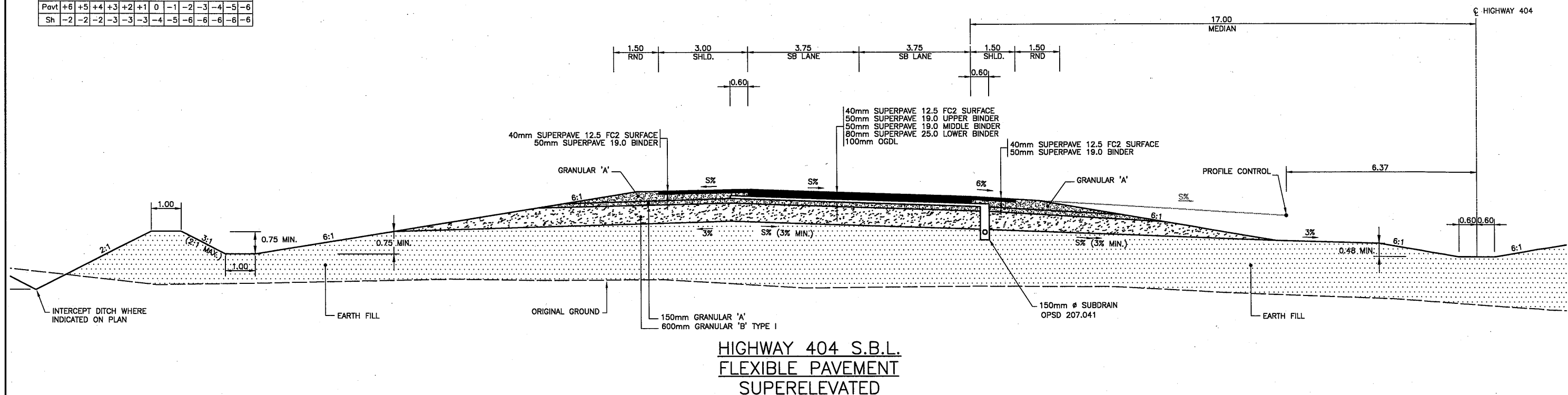
AECOM



SHEET
TYP-02



SUPERELEVATION TABLE												
Pavt	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5
Sh	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6



N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND MULCH/BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

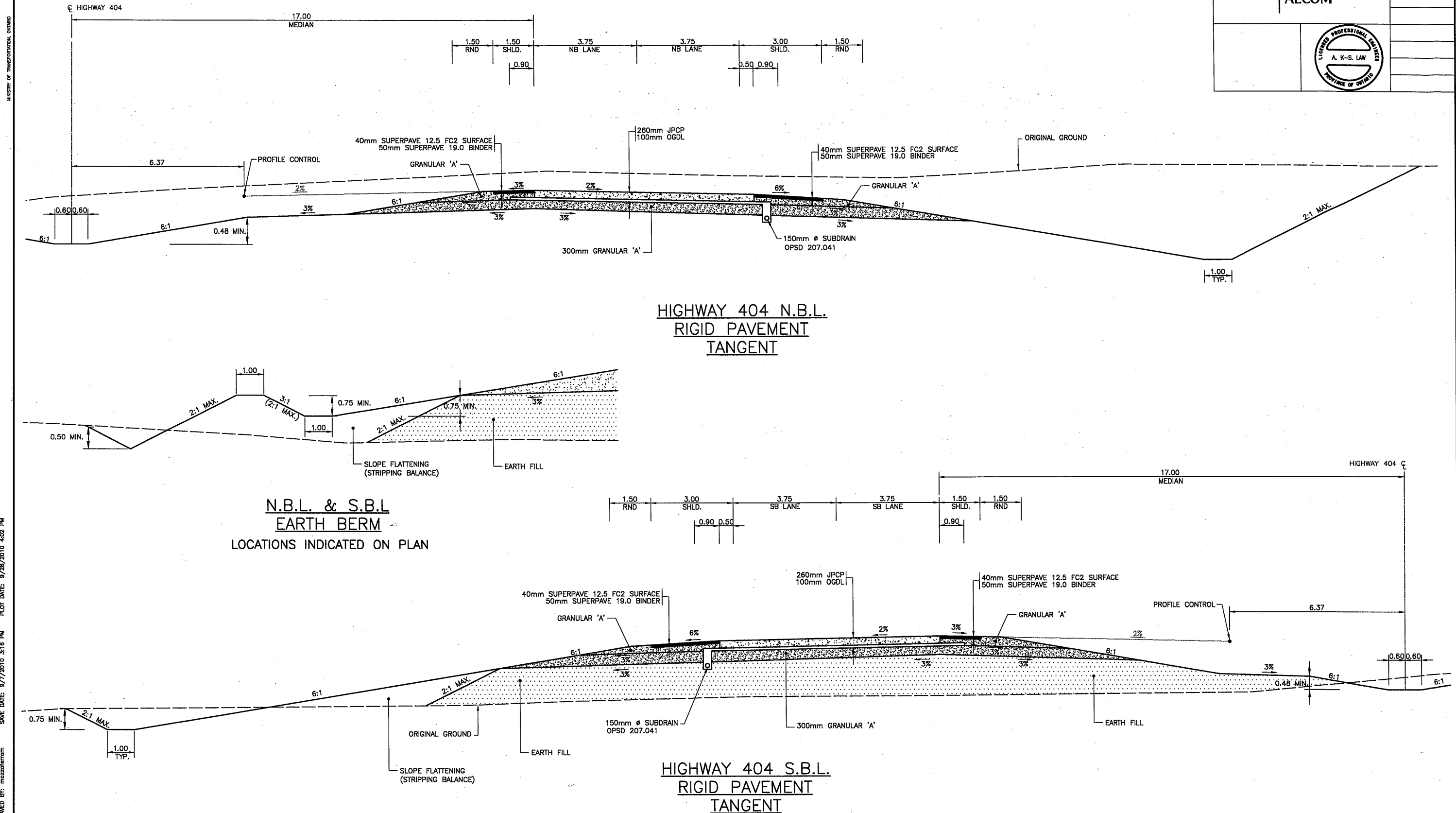
CONT
WP 2005-07-00

TYPICAL SECTIONS

AECOM



SHEET
TYP-03



N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND MULCH/BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT

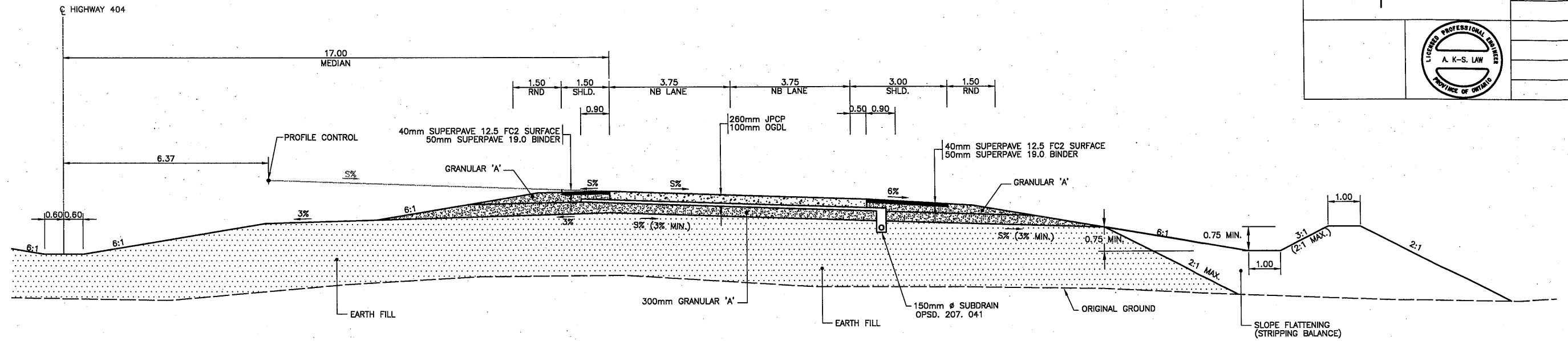
WP 2005-07-00

TYPICAL SECTIONS

AECOM

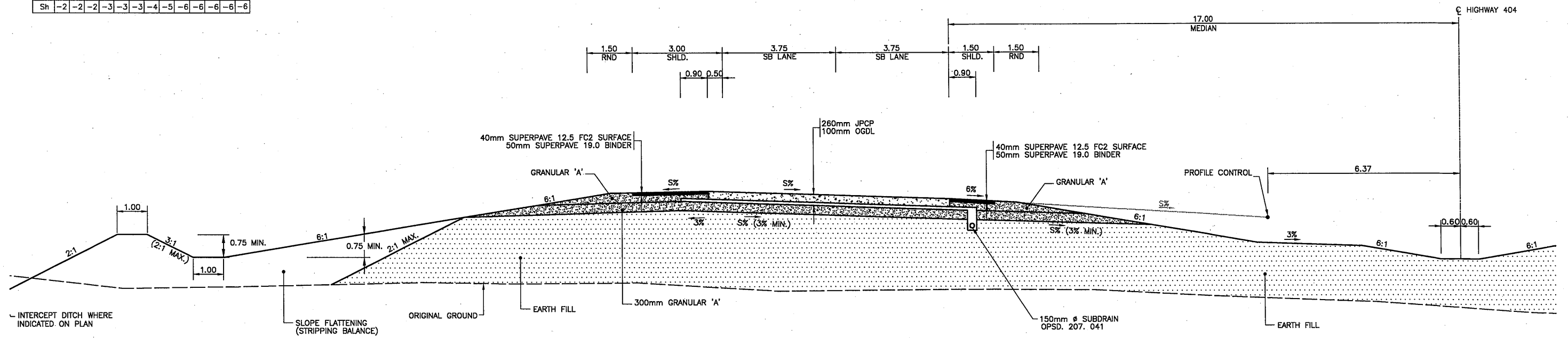


SHEET
TYP-04



HIGHWAY 404 N.B.L. RIGID PAVEMENT SUPERELEVATED

SUPERELEVATION TABLE											
Pavt	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4
Sh	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6



HIGHWAY 404 S.B.L. RIGID PAVEMENT SUPERELEVATED

N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND MULCH/BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.

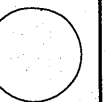
METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

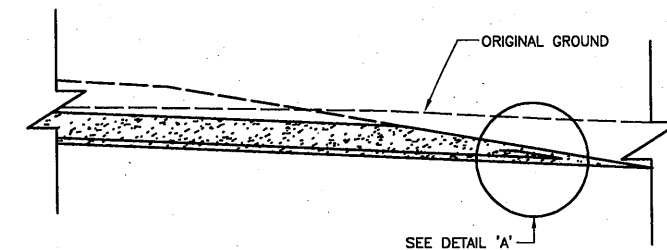
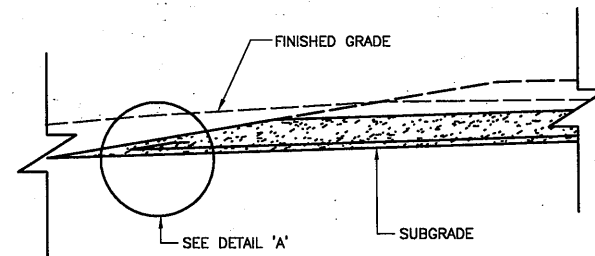
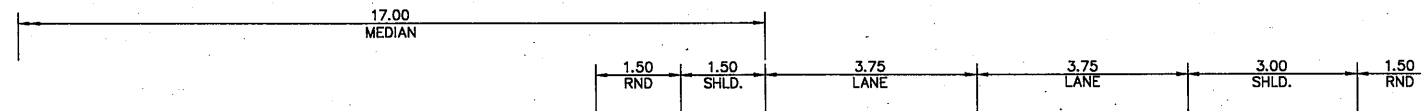
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WP 2005-07-00

TYPICAL SECTIONS

AECOM

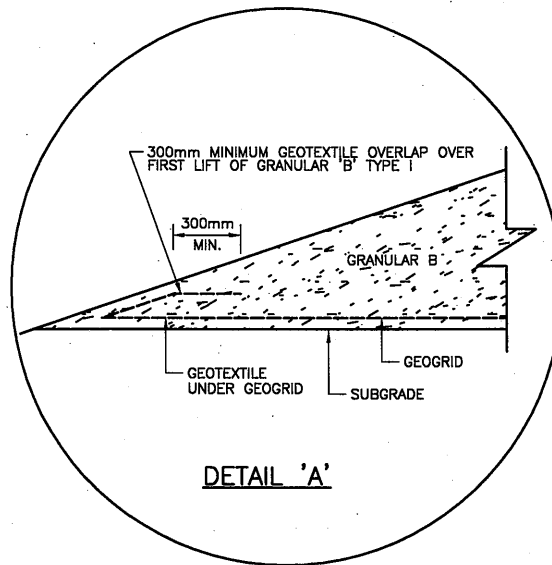


SHEET
TYP-05

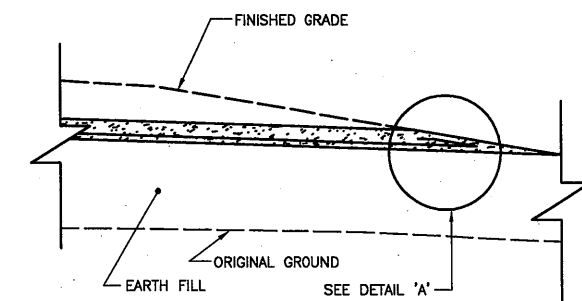
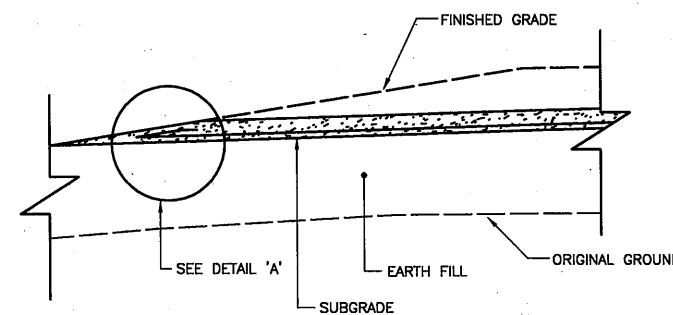
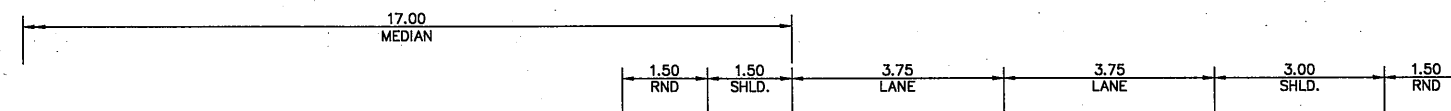


HIGHWAY 404
FLEXIBLE/RIGID PAVEMENT
TANGENT

(NBL: STA. 34+885 - 34+970, 35+525 - 35+615)
(SBL: STA. 34+590 - 34+640, STA. 34+825 - 34+865, STA. 35+310 - 35+400,)



DETAIL 'A'



HIGHWAY 404
FLEXIBLE/RIGID PAVEMENT
SUPERELEVATED

(NBL: STA. 37+700 - 37+840)
(SBL: STA. 37+080 - 37+100, STA. 37+300 - 37+425)

N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

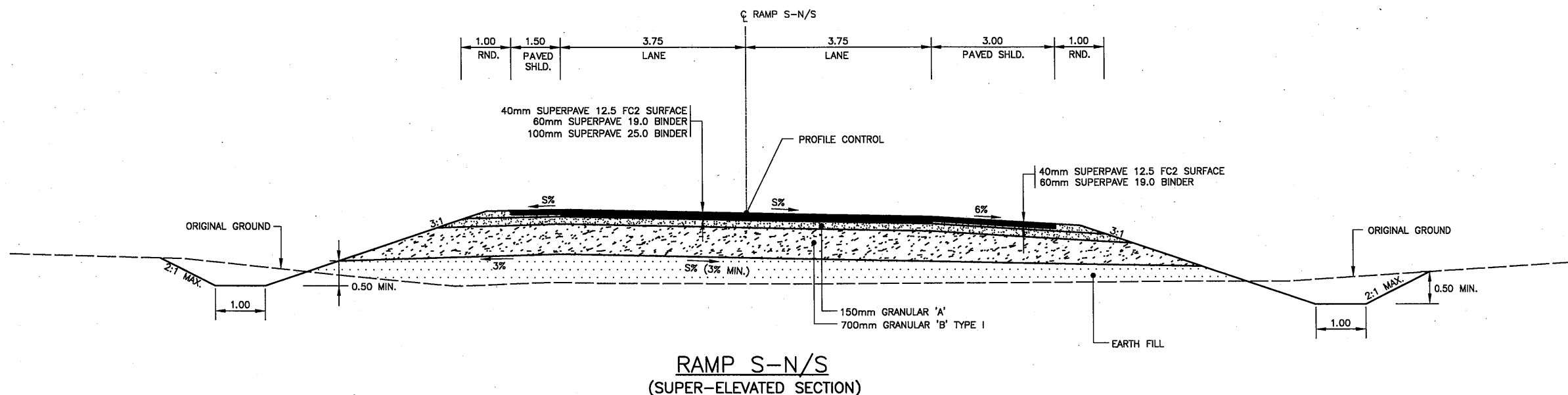
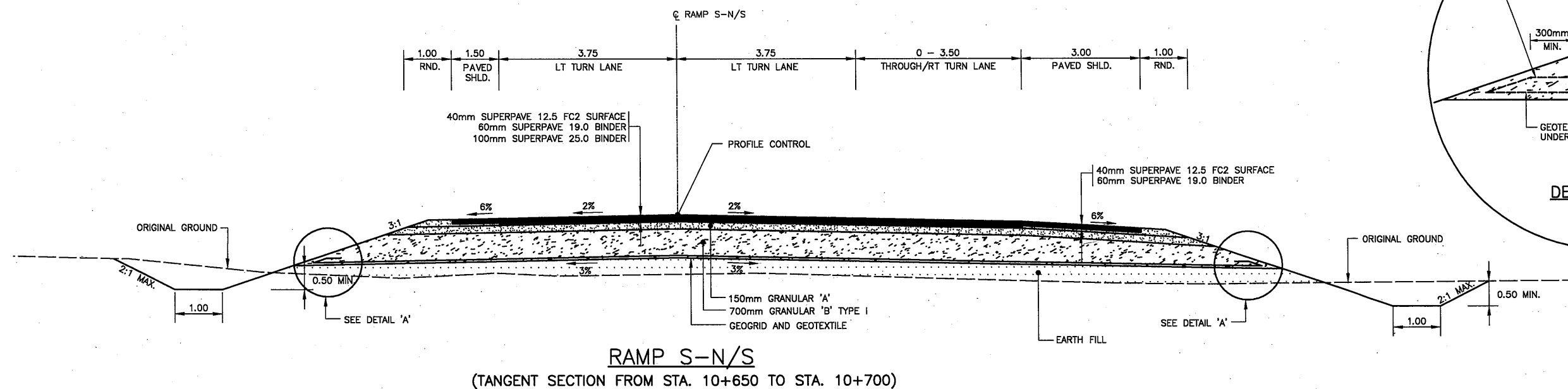
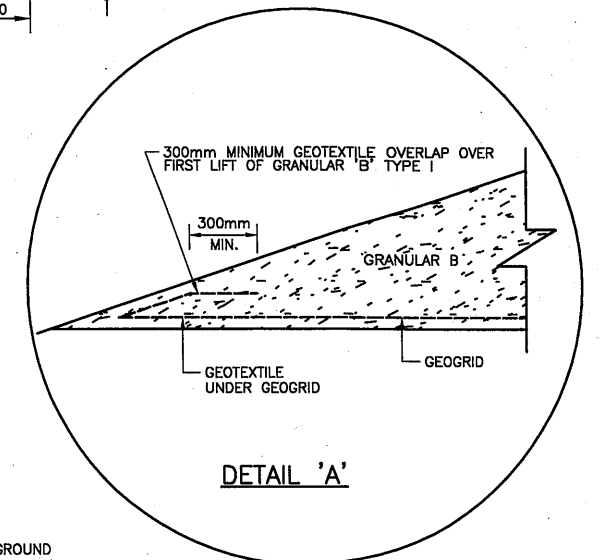
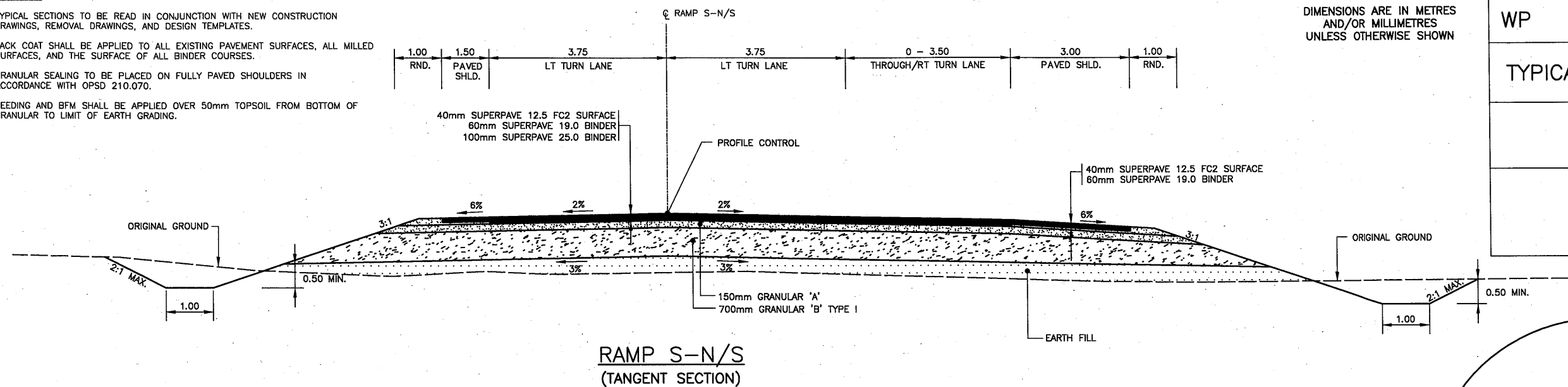
CONT
WP 2005-07-00

TYPICAL SECTIONS

AECOM



SHEET
TYP-06



SUPERELEVATION TABLE												
Pavt	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5
Sh	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6

N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

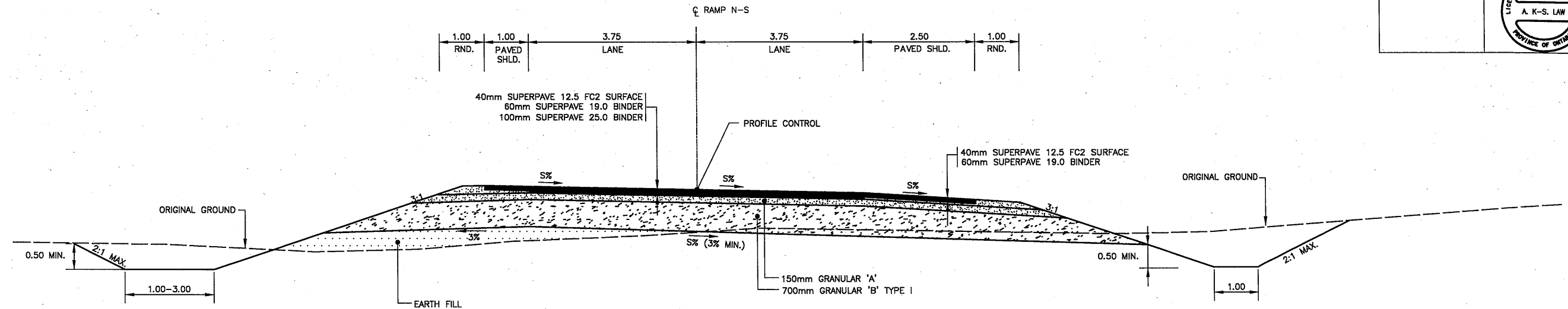
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WP 2005-07-00

TYPICAL SECTIONS

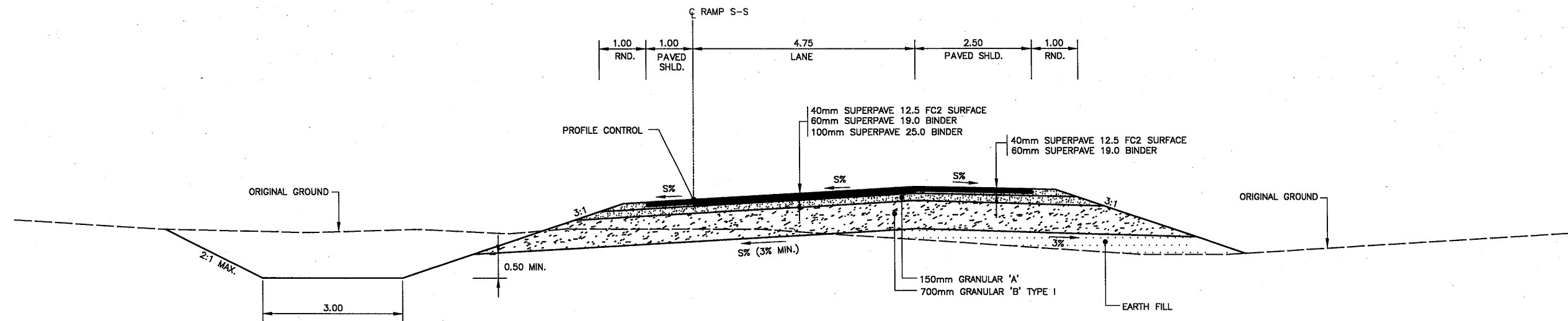
AECOM



SHEET
TYP-07



RAMP N-S
(SUPER-ELEVATED SECTION)



INTERIM RAMP S-S
(SUPER-ELEVATED SECTION)

SUPERELEVATION TABLE												
Pavt	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5
Sh	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6

N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM OUTSIDE EDGE OF GRANULAR TO LIMIT OF EARTH GRADING.
- LOWER THE DEPTH OF GRANULAR 'B', TYPE I, TO MATCH EXISTING GRANULAR BOTTOM AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE TO EXISTING SUBGRADE.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

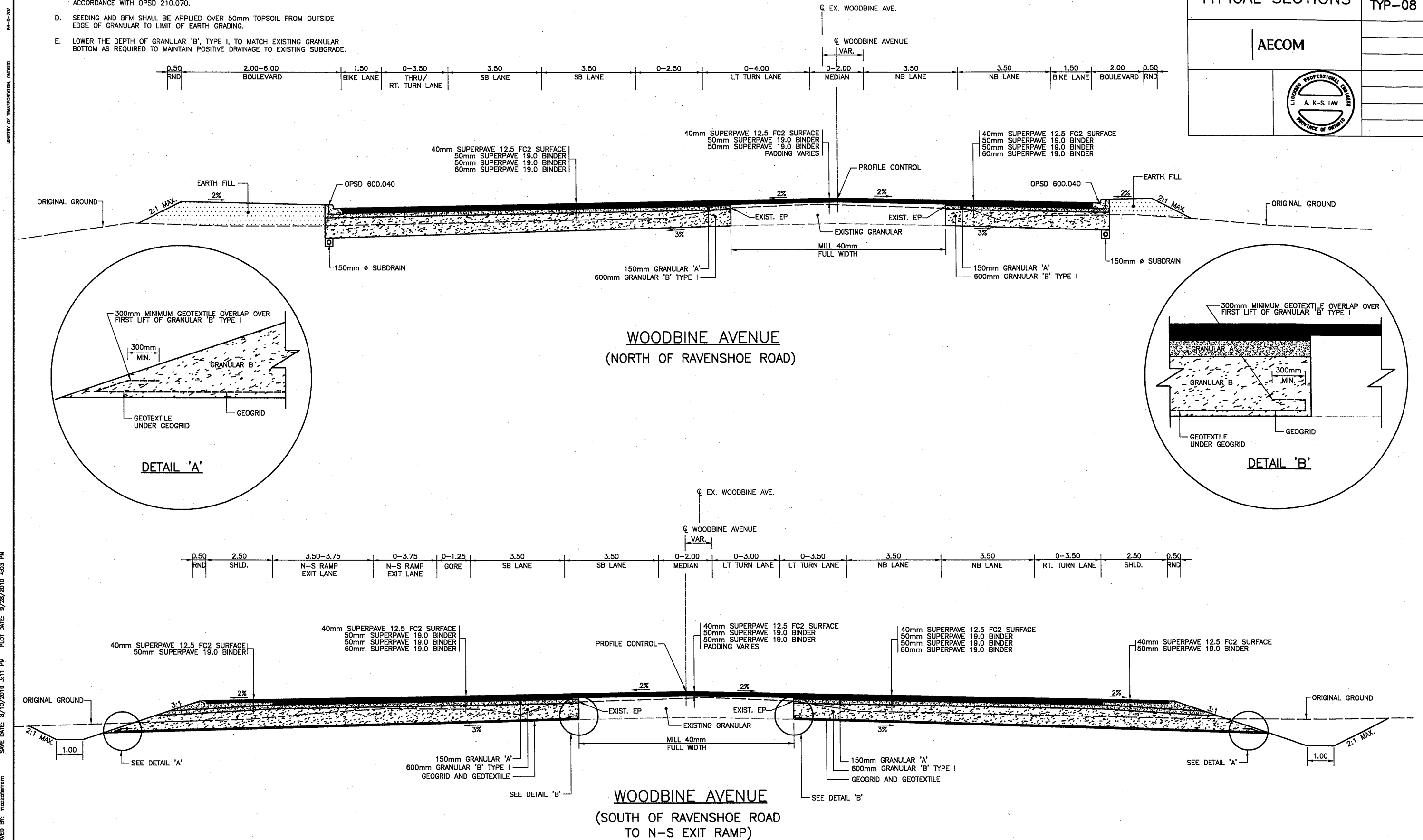
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WP 2005-07-00

TYPICAL SECTIONS

SHEET
TYP-08

AECOM



WOODBINE AVENUE
(NORTH OF RAVENSHOE ROAD)

WOODBINE AVENUE
(SOUTH OF RAVENSHOE ROAD
TO N-S EXIT RAMP)

DETAIL 'A'

DETAIL 'B'

DRAWING NAME: 25335-199-00-CT-TYP-08.dwg
SAVE DATE: 8/10/2010 3:11 PM
PLOT DATE: 8/28/2010 4:03 PM
SHEET: 8/28/2010 4:03 PM

N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
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METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

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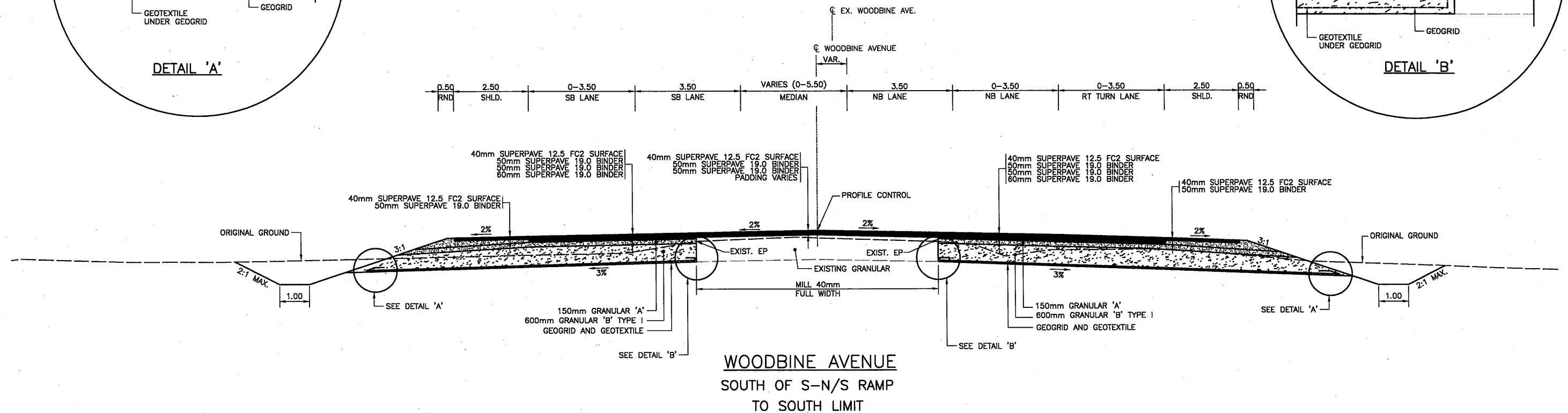
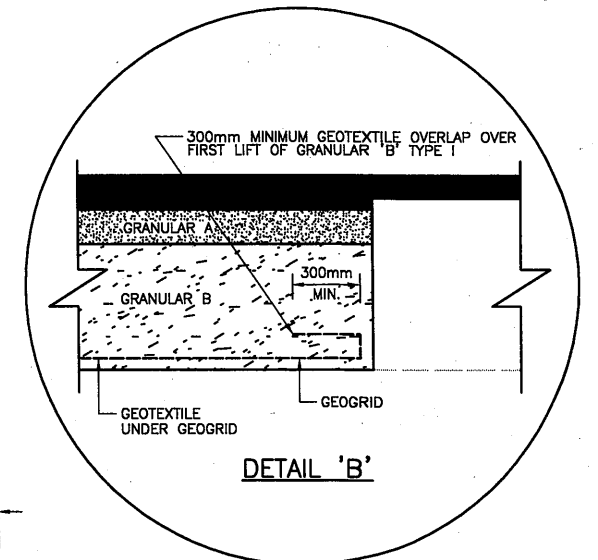
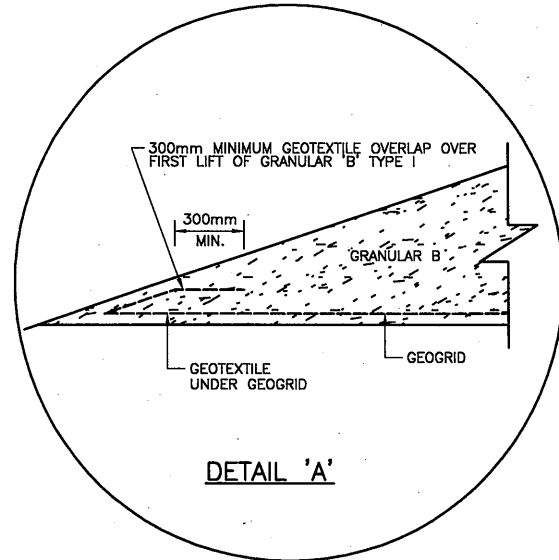
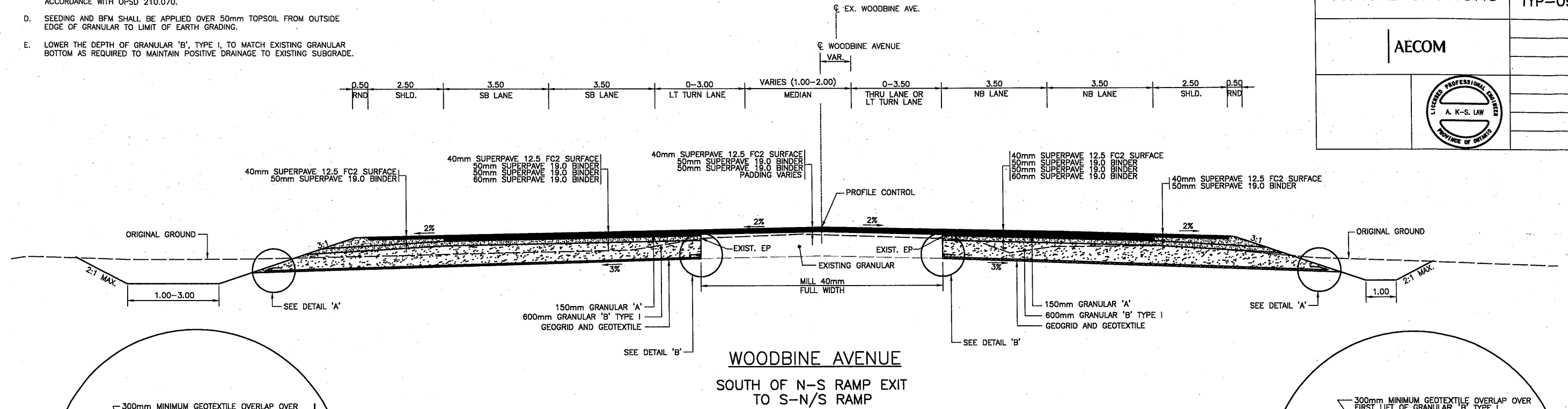
WP 2005-07-00

TYPICAL SECTIONS

AECOM



SHEET
TYP-09



N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
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- LOWER THE DEPTH OF GRANULAR 'B', TYPE I, TO MATCH EXISTING GRANULAR BOTTOM AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE TO EXISTING SUBGRADE.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT

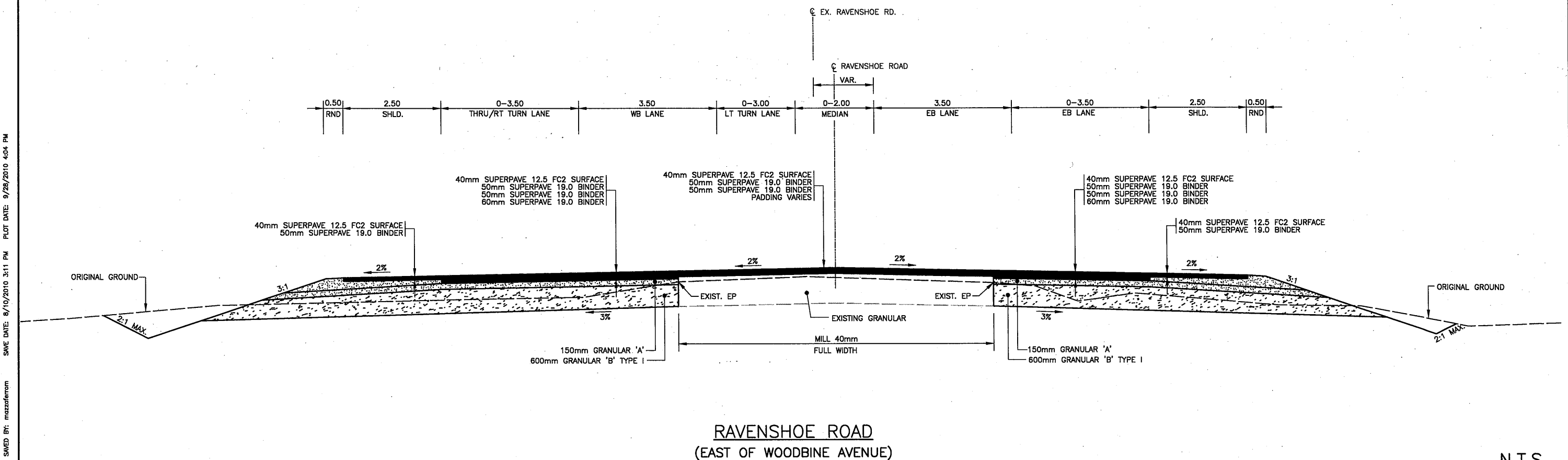
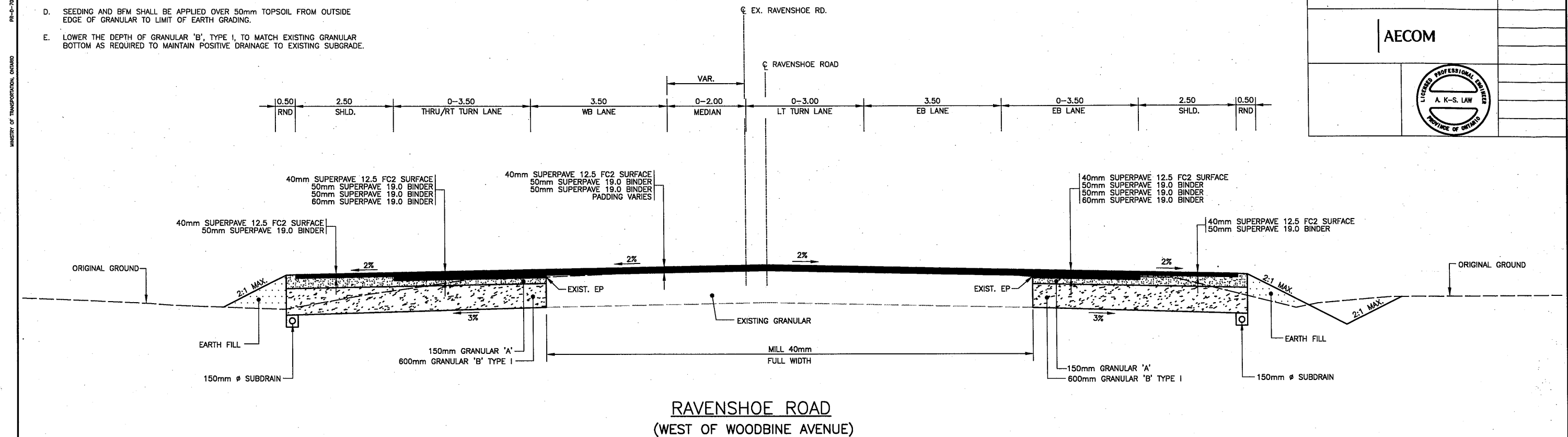
WP 2005-07-00

TYPICAL SECTIONS

AECOM



SHEET
TYP-10



N.T.S.

GENERAL NOTES

- TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
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METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

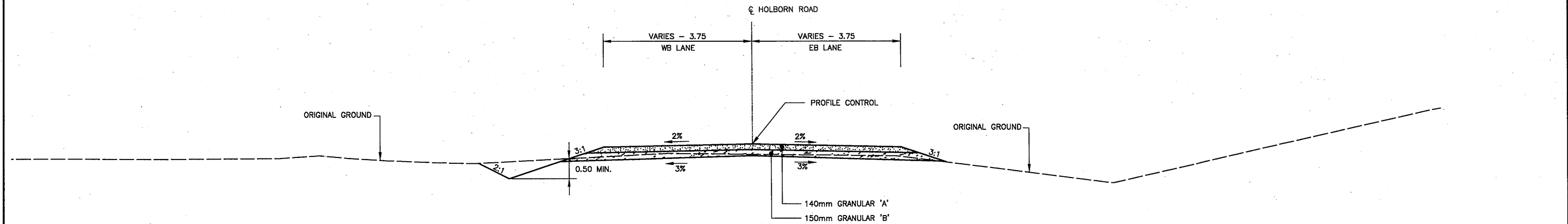
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WP 2005-07-00

TYPICAL SECTIONS

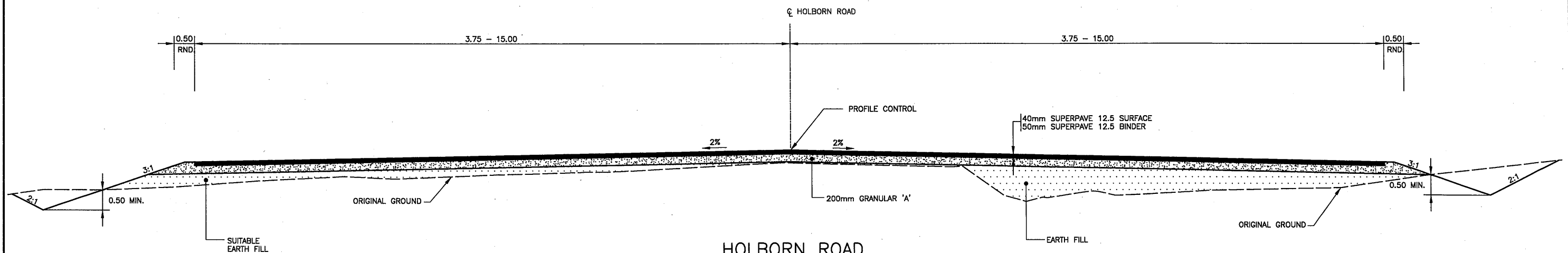
AECOM



SHEET
TYP-11



HOLBORN ROAD
STA. 10+096 TO 10+111
STA. 9+885 TO 9+900



HOLBORN ROAD
STA. 9+900 TO 9+939
STA. 10+057 TO 10+096

N.T.S.

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT
WP 2005-07-00

TYPICAL SECTIONS

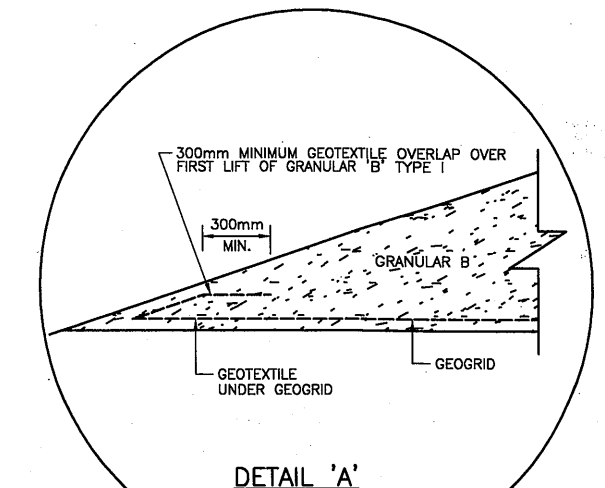
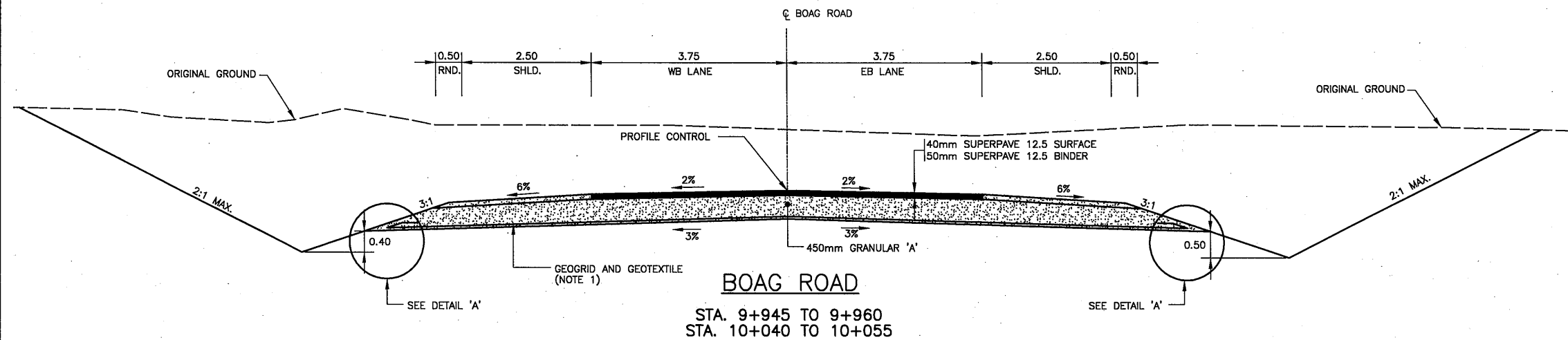
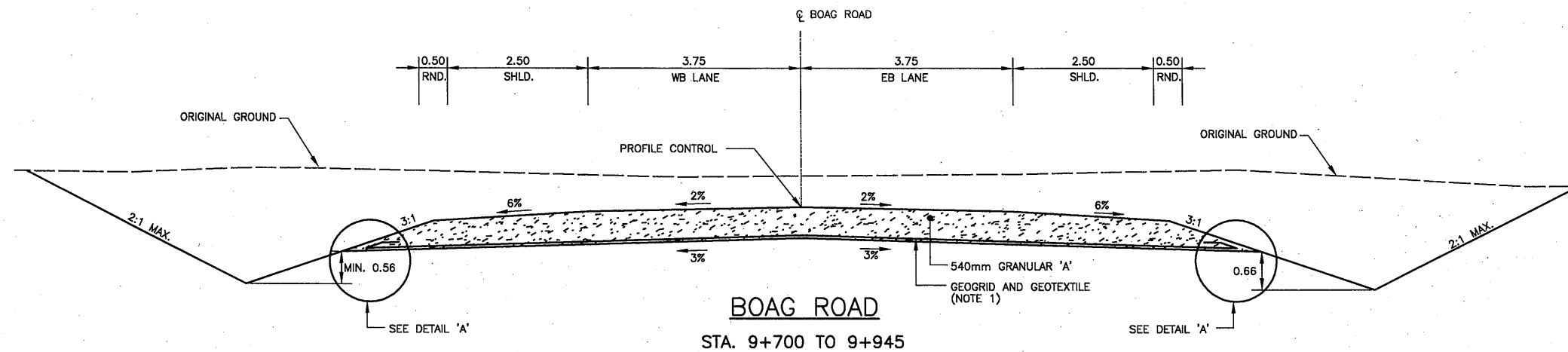
AECOM



SHEET
TYP-12

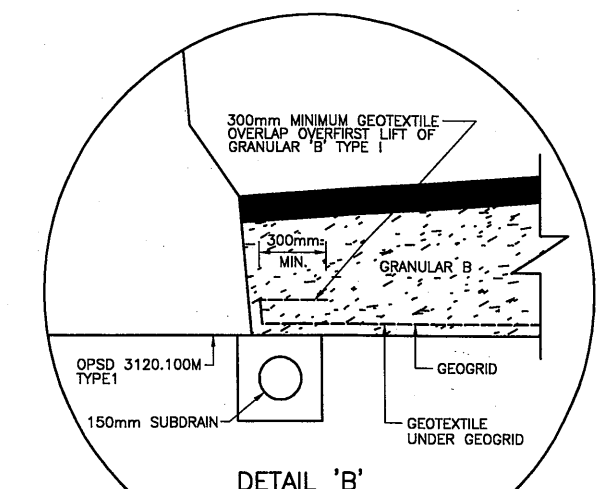
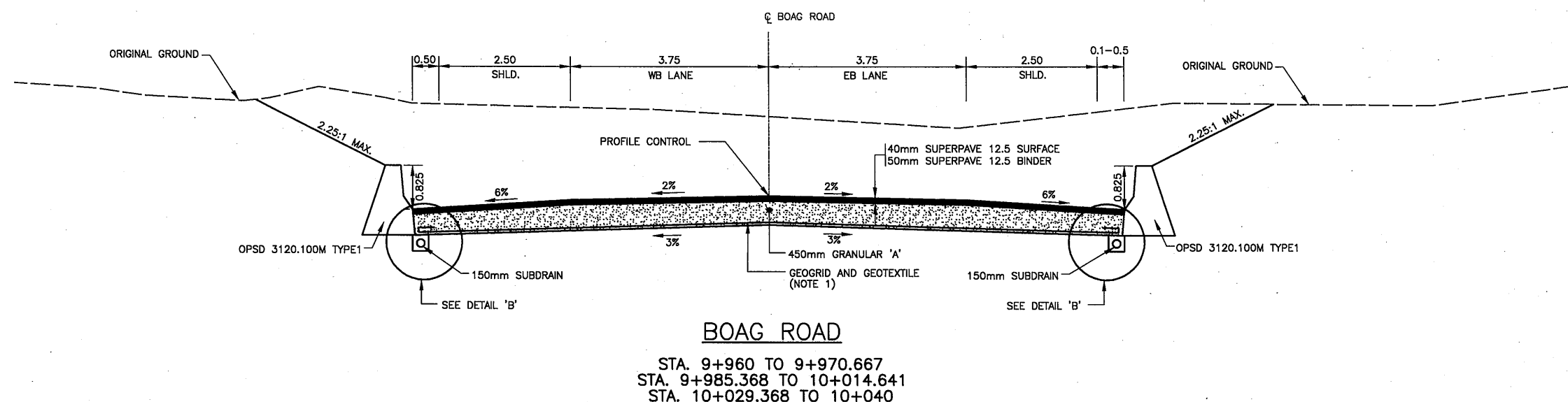
GENERAL NOTES

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- TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
- GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
- SEEDING AND BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.
- 1.0m ROUNDING WHERE STEEL BEAM GUIDE RAIL IS PRESENT.



NOTES

- GEOGRID AND GEOTEXTILE BETWEEN STA. 9+825 AND 9+975.



N.T.S.

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

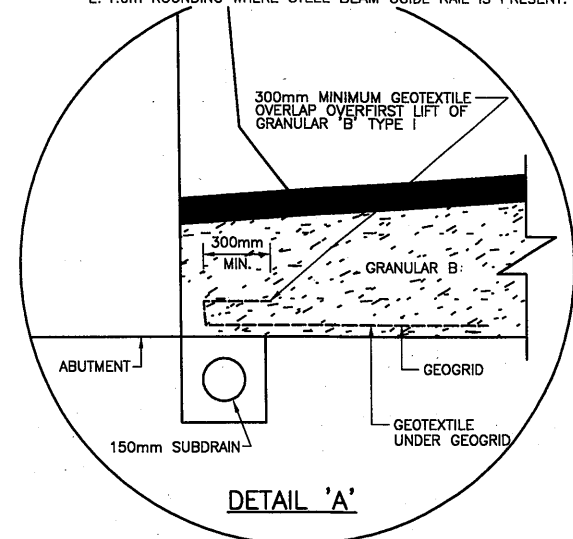
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WP 2005-07-00

TYPICAL SECTIONS
SHEET
TYP-13

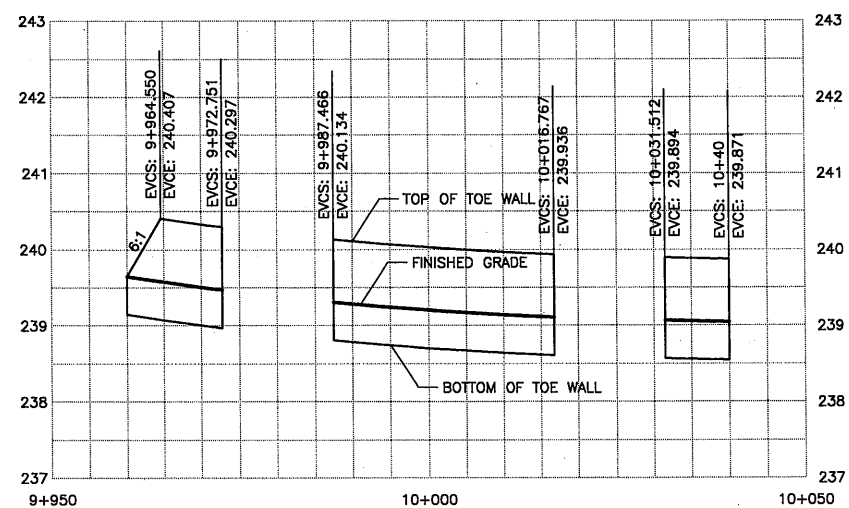
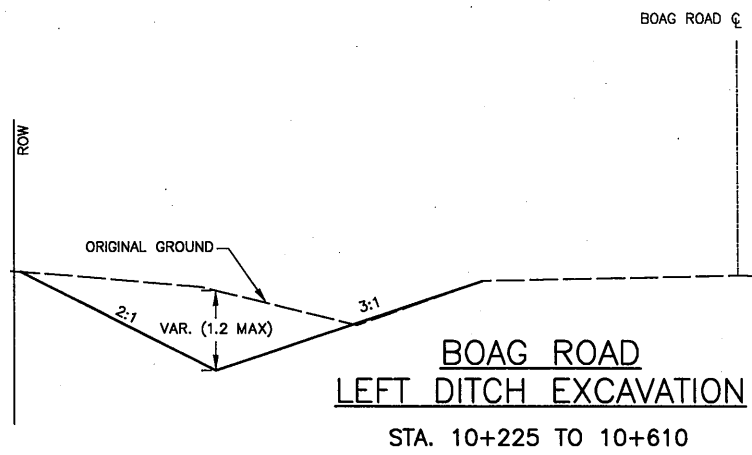
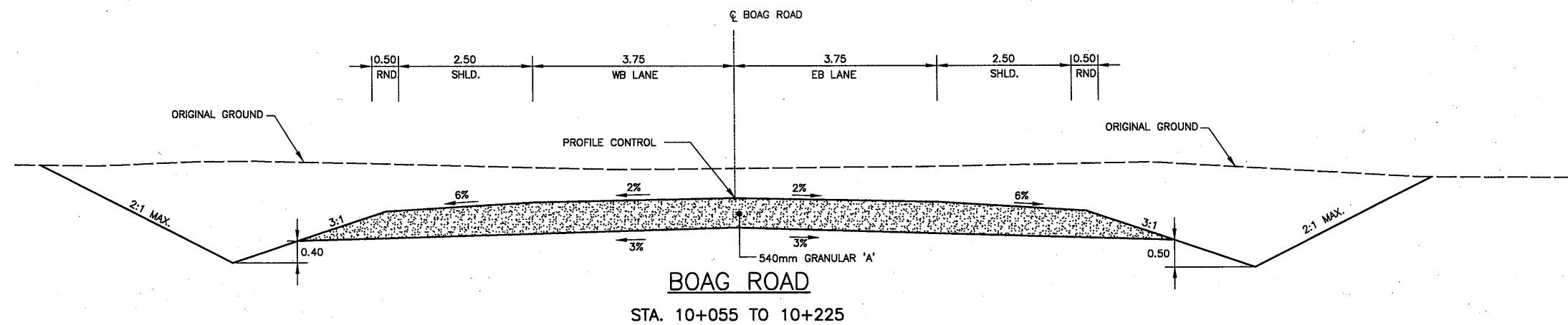
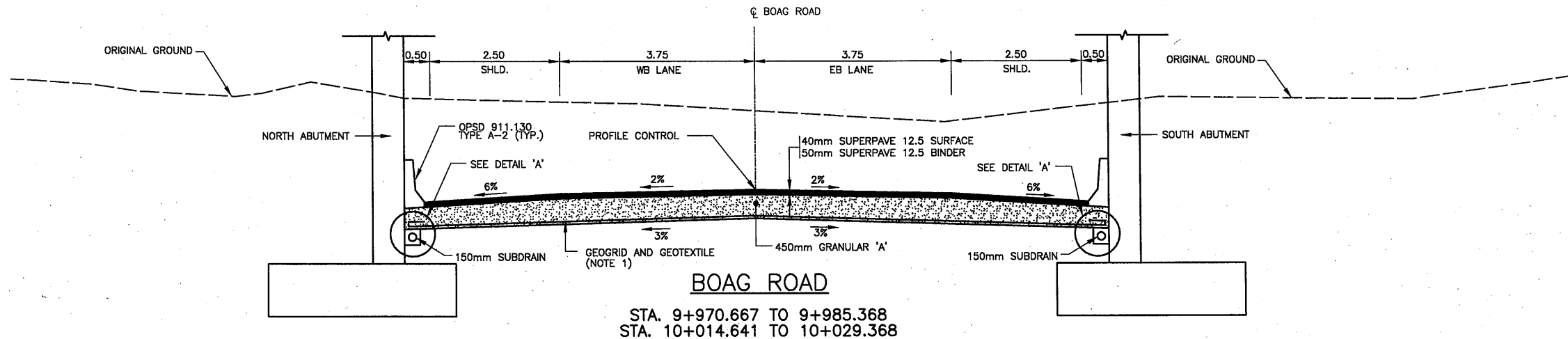
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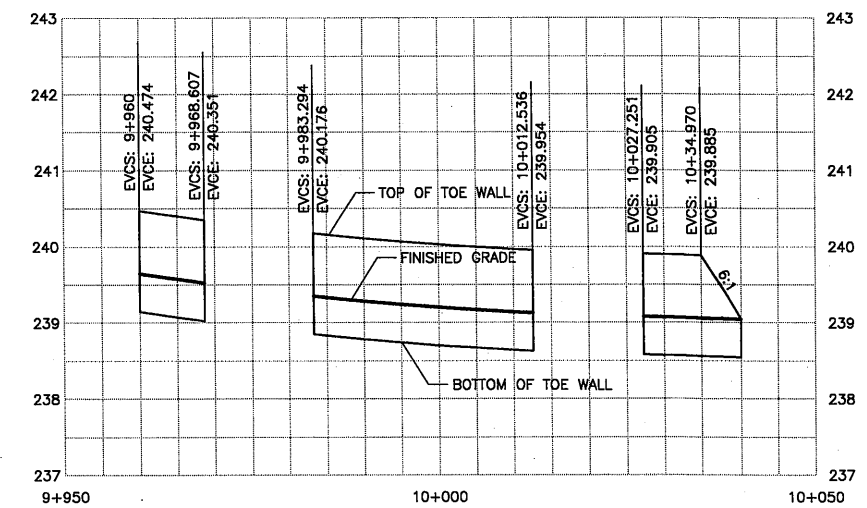
- GENERAL NOTES
- A. TYPICAL SECTIONS TO BE READ IN CONJUNCTION WITH NEW CONSTRUCTION DRAWINGS, REMOVAL DRAWINGS, AND DESIGN TEMPLATES.
 - B. TACK COAT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES, ALL MILLED SURFACES, AND THE SURFACE OF ALL BINDER COURSES.
 - C. GRANULAR SEALING TO BE PLACED ON FULLY PAVED SHOULDERS IN ACCORDANCE WITH OPSD 210.070.
 - D. SEEDING AND BFM SHALL BE APPLIED OVER 50mm TOPSOIL FROM BOTTOM OF GRANULAR TO LIMIT OF EARTH GRADING.
 - E. 1.0m ROUNDING WHERE STEEL BEAM GUIDE RAIL IS PRESENT.



NOTES
1. GEOTEXTILE AND GEOTEXTILE BETWEEN STA. 9+825 AND 9+975.



TOE WALL PROFILE - NORTH SIDE



TOE WALL PROFILE - SOUTH SIDE

N.T.S.

DRAWING NAME: 2538-199-00-OT-TYP-13.dwg
SAVED BY: mazzaferrm
PLOT DATE: 9/28/2010 4:05 PM
PLOT DATE: 9/13/2010 9:56 AM