

GEORGE PRICE HIGHWAY REHABILITATION

SECTION 1 STA. 0+000 TO 0+485

100% DESIGN PACKAGE

ROARING CREEK BRIDGE (STRUCTURAL)

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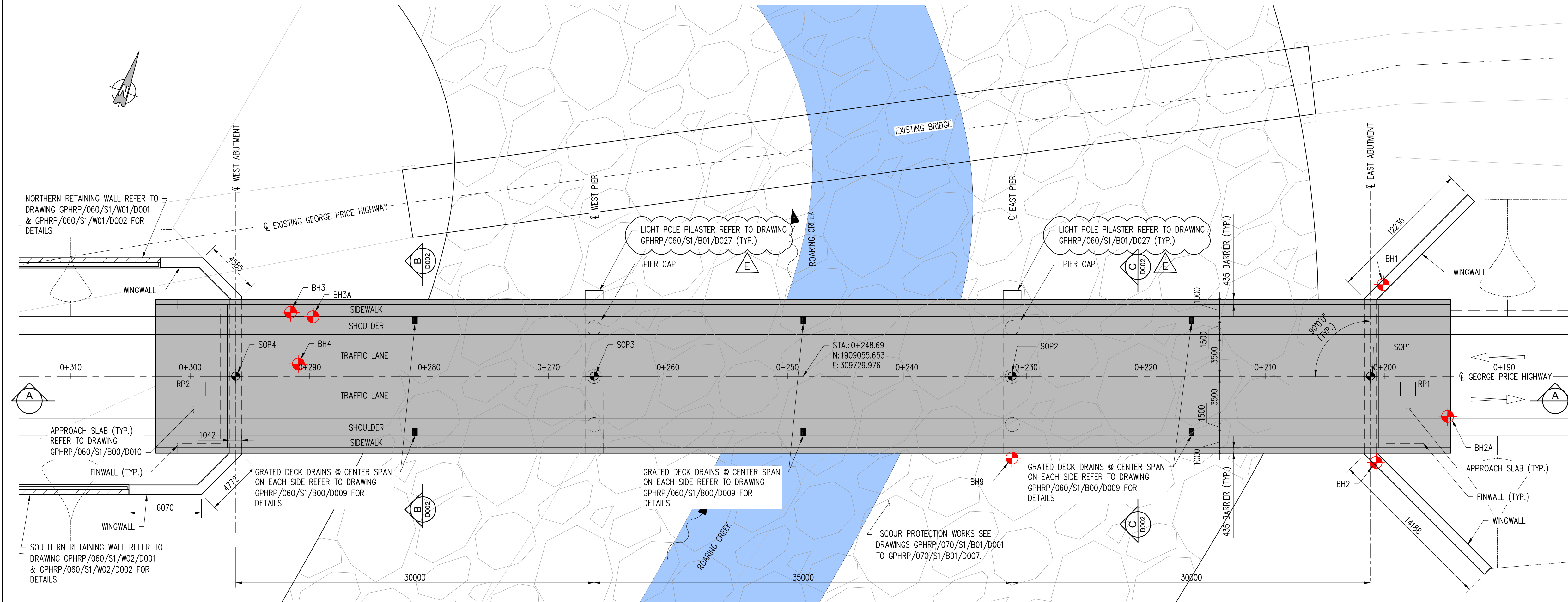
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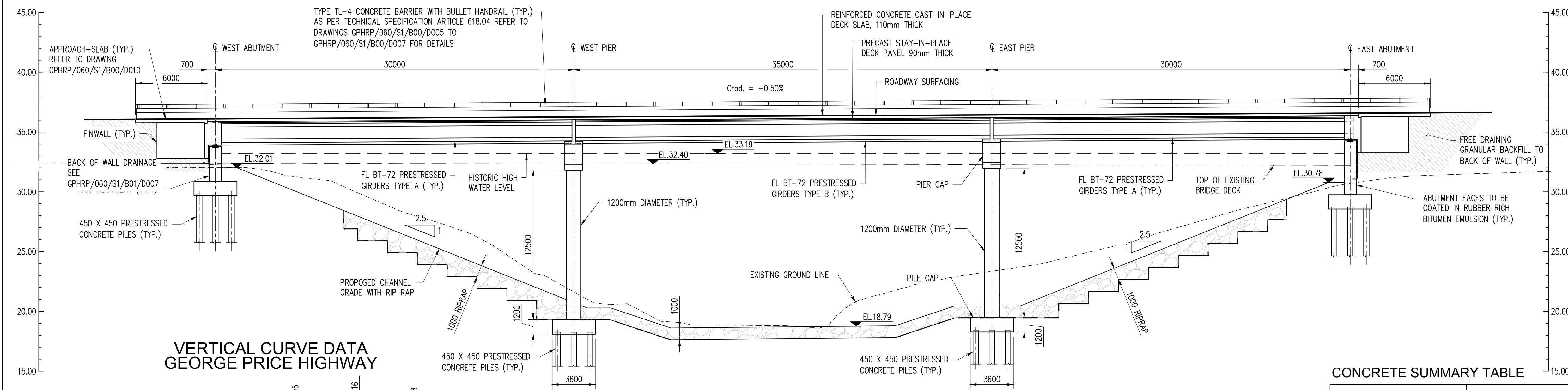
THE GOVERNMENT OF BELIZE
MINISTRY OF WORKS, TRANSPORT
AND NEMO
BELMOPAN,
BELIZE, C. A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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PLAN
SCALE 1:200



SECTION A-A
SCALE 1:200

SETTING OUT TABLE

	NORTHING	EASTING	STATION GEORGE PRICE HIGHWAY	ELEVATION
SOP1	1909069.093	309775.533	0+201.19	36.60
SOP2	1909060.614	309746.159	0+231.19	36.45
SOP3	1909050.701	309713.189	0+266.19	36.28
SOP4	1909042.212	309684.415	0+296.19	36.13

CONCRETE SUMMARY TABLE

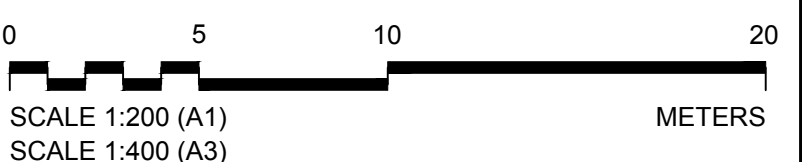
STRUCTURAL MEMBER	MINIMUM f_c (28 DAYS, CYLINDER STRENGTH), MPa
A - APPROACH SLABS, ABUTMENTS, WING WALLS, PIERS, PIER CAPS, BARRIER, PILE CAPS.	30
B - BRIDGE DECK, DIAPHRAGMS, PRECAST PANELS, PRESTRESSED PILES.	35
C - PRESTRESSED GIRDER	50
D - SIDEWALKS	25

Notes:

- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- SETTING OUT INFORMATION IS PROVIDED RELATIVE TO PROJECT GRID.
- DESIGN SEISMIC LOADS: $PGA=0.19$ FOR 7% PROBABILITY OF EXCEEDANCE IN 75 YEARS.
- FOR RIP RAP DETAILS SEE DRAWINGS GPHRP/070/S1/B01/D001 & GPHRP/070/S1/B01/D007.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING GPHRP/060/S1/B01/D002.

LEGEND:

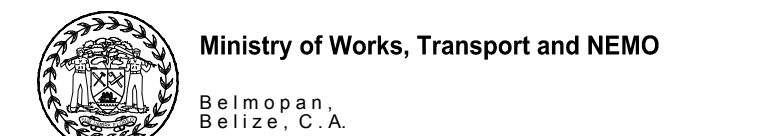
- NEW LANE
- DENOTES SETTING OUT POINT
- BOREHOLE LOCATION
- ROD & PLATE (RP) SETTLEMENT GAUGE LOCATION



100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
E	KMJ	JSP	MS	19.10.16	LIGHT POLE PILASTER ADDED
D	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
C	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
B	KMJ	JSP	MS	12.05.16	60% DESIGN ISSUE
A	KMJ	JSP	MS	15.04.16	DRAFT ISSUE

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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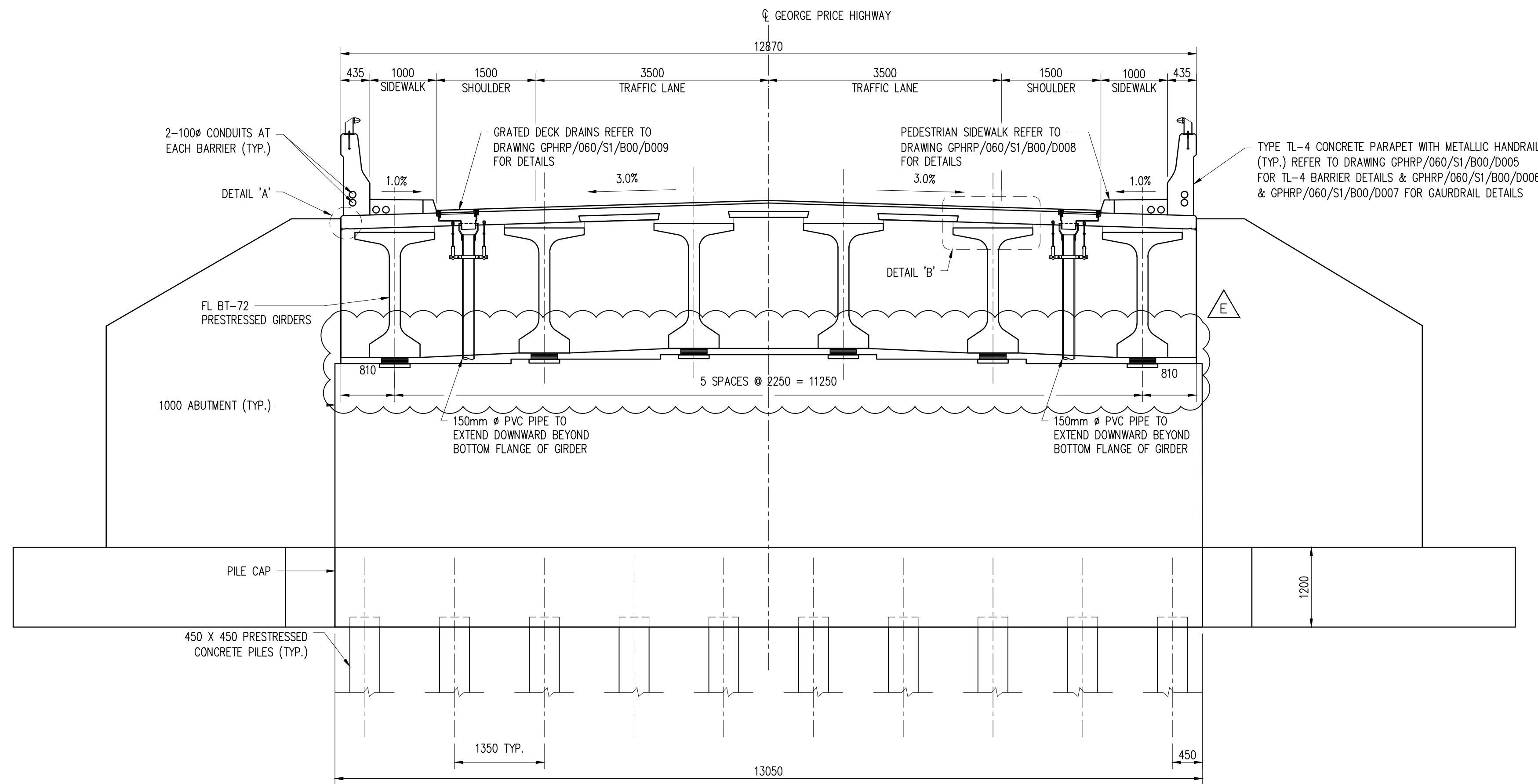
Project
George Price Highway
Rehabilitation Project

Drawing Title
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
GENERAL ARRANGEMENT
SHEET 1 OF 2

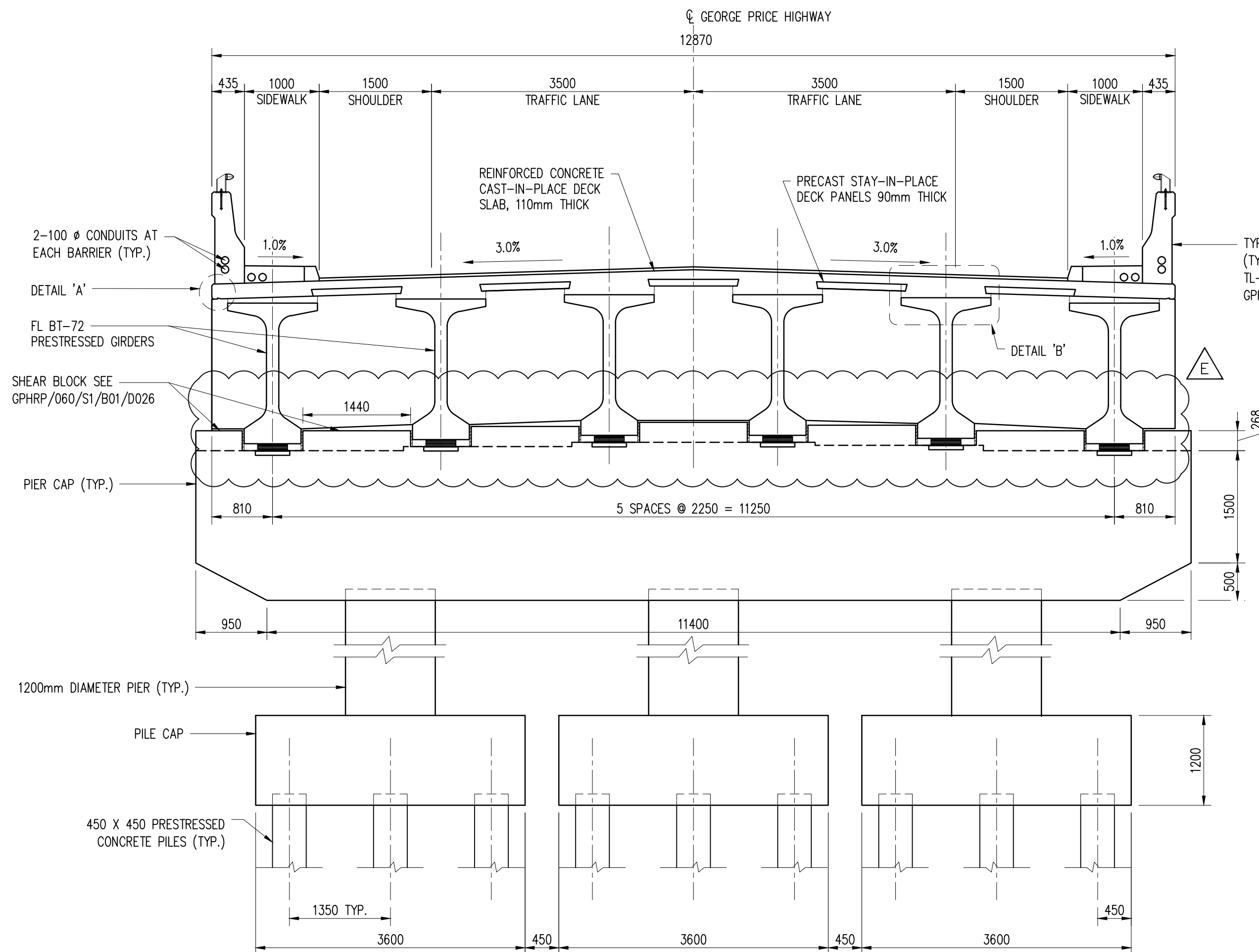
Drawn by: KMJ Date: APRIL 15, 2016
Checked by: JSP Date: APRIL 15, 2016
Authorised by: MS Date: APRIL 15, 2016

Drawing No.
GPHRP/060/S1/B01/D001
Revision
E

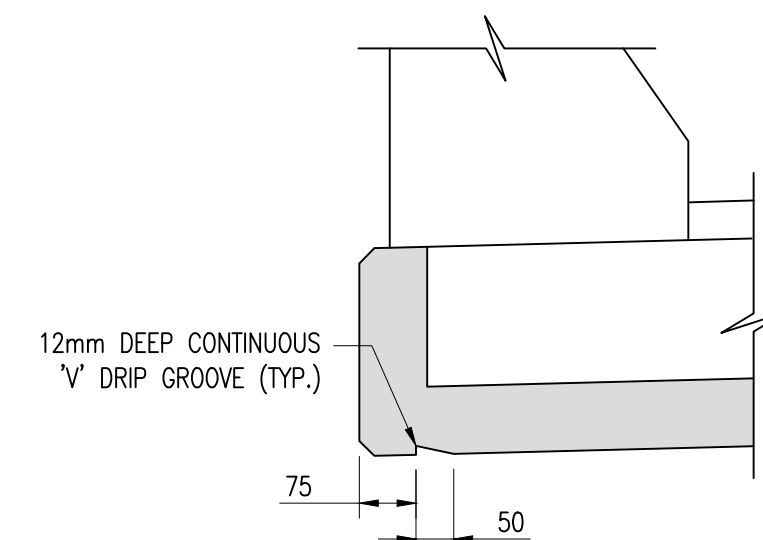
Drawing Scale: As noted on A1
Plot Scale: 1 : 1



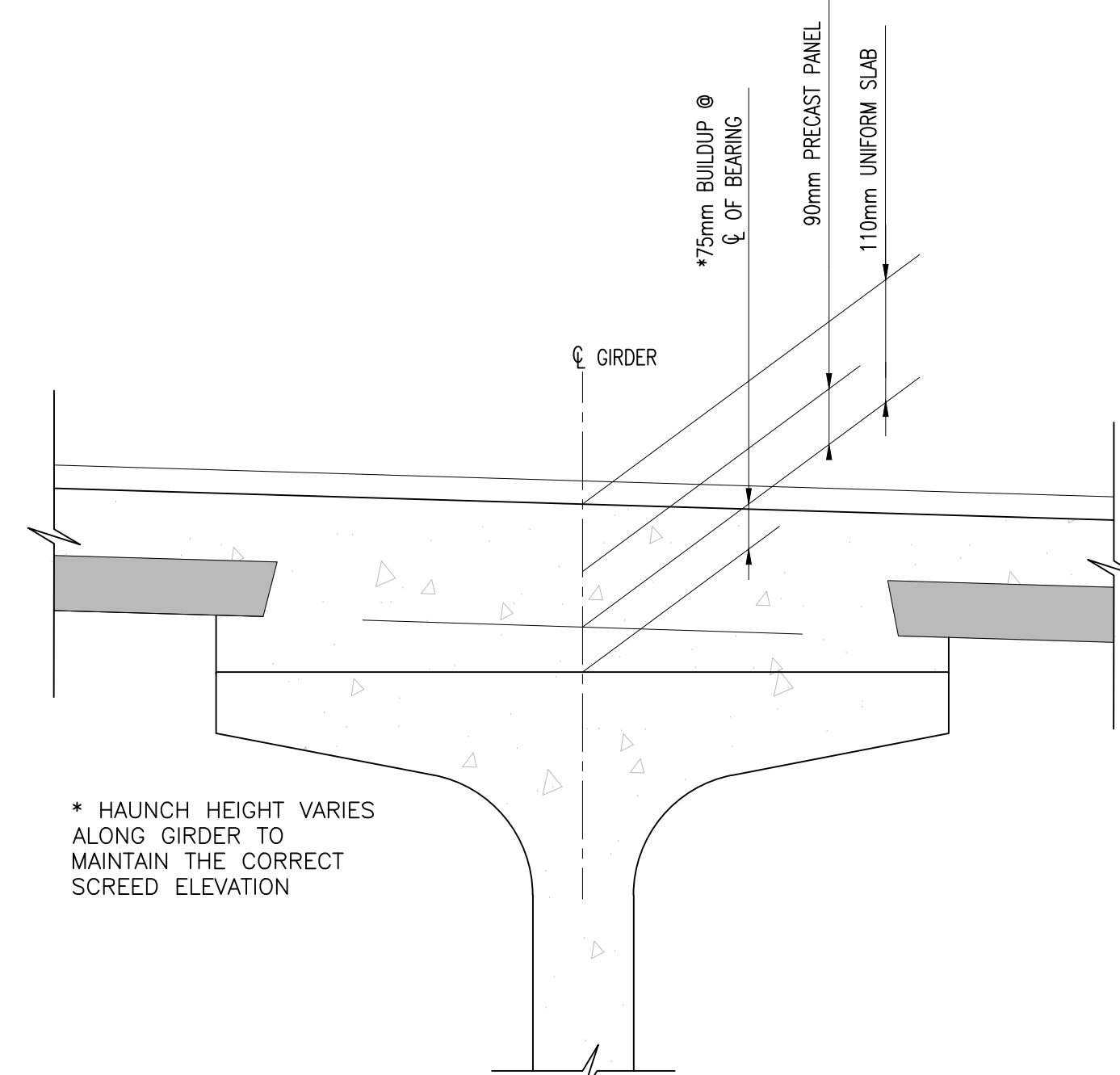
SECTION B-B/D001
SCALE 1:50



SECTION C-C/D001
SCALE 1:50

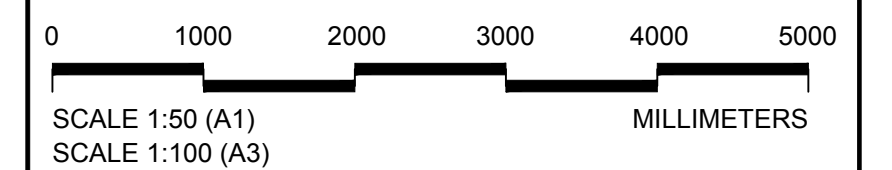
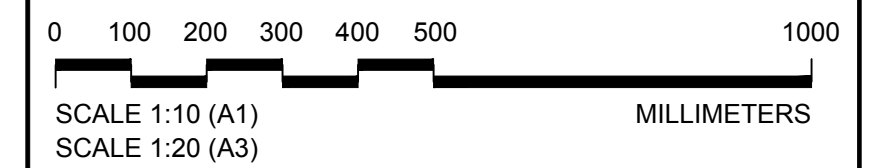
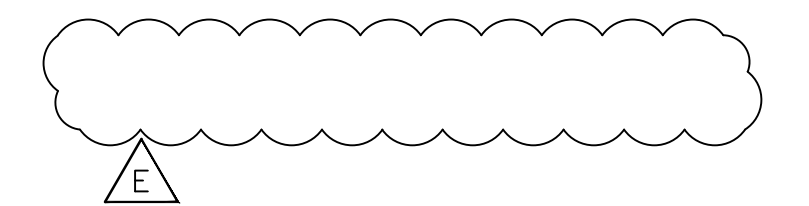


DETAIL A
SCALE 1:10



DETAIL B
SCALE 1:10

- Notes:
- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 - ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 - SETTING OUT INFORMATION IS PROVIDED RELATIVE TO PROJECT GRID.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING GPHRP/060/S1/B01/D001.



100% FINAL DESIGN

E	KMJ	JSP	MS	19.10.16	DIAPHRAGM ADDED
D	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
C	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
B	KMJ	JSP	MS	12.05.16	60% DESIGN ISSUE
A	KMJ	JSP	MS	15.04.16	DRAFT ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project

George Price Highway
Rehabilitation Project

Drawing Title

SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
GENERAL ARRANGEMENT
SHEET 2 OF 2

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

Drawing No. **GPHRP/060/S1/B01/D002** Revision **E**

Drawing Scale: As noted on A1

Plot Scale: 1 : 1

APPENDIX 1												
CLIENT: Ministry of Works & Transport SITE: Roaring Creek Bridge, Caya District, Belmopan Side						DATE: Started: 27/9/14 Completed: 27/9/14 AUGER FROM: 0' 0" to 16' 9" WASHBORING: 16' 9" to 33' 10" CORING: 33' 10" to 61' 6"						
RIG TYPE Aker - Deutz 93DR01												
DATE	METHOD	SAMPLE/TEST			WATER	DEPTH (Ft.)	LEGEND	LEVEL (Ft. AD)				DESCRIPTION
		FROM/TO	TCR	RQD								
			(SCR)	SPT								
14/10/14		33' 10"										AUGER DOWN TO 16' 9" SETTING DOWN TO CORINGS.
26/09/14			32 0	0		35						TCR-32% SCR-0 RQD-0 LIMSTONE PEBBLES-CLAY WASHED OUT
		38' 10"	40 0	0		40						TCR-40% SCR-0 RQD-0 LIMSTONE PEBBLES, VERY POOR RECOVERY
		41' 6"	41 4	0		45						TCR-41% SCR-4% RQD-0 LIMSTONE PEBBLES EMBEDDED IN CLAY
27/9/14		46' 6"										TCR=60 SCR=14 1/2 RQD-0 WEAK MARLSTONE WITH PEBBLES OF WHITE MARL
	27/9	51' 6"				50						TCR-17.5" SCR-0 RQD-0 LIMSTONE PEBBLES HAVING POCKETS OF CLAY
			56' 6"				55					
		61'6"	13 0	0		60						
						65						
						70						
Notes: LOSS WATER CIRCULATION AT 23' 0" / RESUMED CIRCULATION AT 34' 0" DROP OF CORING AT 22' 6" ALMOST 1 FOOT DEEP												BH 1
TCR: Total Core Recovery SCR: Solid Core Recovery RQD: Rock Quality Designation												
Sheet 1 of 1												

APPENDIX 2													
CLIENT: Ministry of Works & Transport SITE: Roaring Creek Bridge, Caya District, Belmopan Side						DATE: Started: 29/9/14 Completed: 03/10/14 AUGER FROM: 0' 0" to 21' 9" WASHBORING: 21' 9" to 40' 7" CORING: 40' 8" to 65' 8"							
RIG TYPE Aker - Deutz 93DR01													
DATE	METHOD	SAMPLE/TEST			WATER		LEGEND	LEVEL (FL. AD)	DEPTH (FL.)				DESCRIPTION
		FROM/TO	TCR	RQD									
			(SCR)	(AFS)									
29/09/14			SPT										RED DRY CLAY
			1										
		5' 4"	5,7,12	N=19			5						VERY STIFF DRY RED CLAY
		6' 10"											
			2										
		10' 4"	3,4,6	N=10			10						FIRM RED CLAY
		11' 10"											SOFT WHITE MARL
		3											
30/09/14		15' 7"	22,35,15	N=50			15						VERY GRAVELLY WHITE AND YELLOWISH BROWN MARL HAVING LARGE PIECES OF MARL STONE.
		17' 1"											GRAVELLY WHITE MARL
		20' 7"	52/3,75				20						
		20' 10 3/4"											NO RECOVERY OF SAMPLE
1/10/2014			5										
		25' 7"	50/4,25				25						
		25' 11 1/4"											
		30' 7"	6,12,0,5				30						GRAVELLY WHITE MARL WITH LARGE PIECES OF LIMSTONE
		31' 7 1/2"											
		7											
		35' 7"					35						LIMSTONE PEBBLES
		36' 0"	52/5"				40						
NOTES: 1.) 20' 7" - 20' 10 3/4" - 52 BLOWS FOR 3.75 2.) 25' 7" - 25' 11/4" - 50 BLOWS FOR 4 1/4" 3.) 30' 7" - 31' 1/2" - 50 BLOWS FOR 1/2" 4.) 35' 7" - 36' 0" - 52 BLOWS FOR 5' OF SEATING													BH 2
TCR: Total Core Recovery SCR: Solid Core Recovery RQD: Rock Quality Designation													
Sheet 1 of 2													

APPENDIX 2

CLIENT: Ministry of Works & Transport
SITE: Roaring Creek Bridge, Caya District, Roaring Creek Side

DATE: Started: 06/10/14 Completed: 10/10/14
AUGER FROM: 0' 0" to 22' 3"
WASHBORING: 22' 3" to 48' 9"
CORING: 49' 4" to 67' 4"

RIG TYPE Aker - Deutz 93DR01

DATE	METHOD	SAMPLE/TEST			WATER	DEPTH (Ft.)	LEGEND	LEVEL (Ft. AD)			DESCRIPTION
		FROM/TO	TCR	RQD							
			(SCR)	SPT							
6/10/2014			1								SOFT RED CLAY
7/10/2014		5' 3"	2,1,4	N=5		5					
		6' 9"									
			2								FIRM RED CLAY
		10' 6"	3,7,7	N=10		10					
		12' 0"									FIRM RED CLAY
		15' 7"	4,7,10	N=17		15					
		17' 1"									
		20' 7"	4,4,4	N=8		20					SOFT RED CLAY
		22' 1"	5								
		25' 8"	4,5,7	N=12		25					COURSE SAND WITH RED CLAY
		27' 2"									
		30' 7"	6			30					SANDY YELLOW BROWN CLAY
		32' 1"	7,8,9	N=17							FIRM YELLOW BROWN CLAY
		35' 1"	7			35					
		36' 7"	9,6,5	N=39							
		40' 6"	8			40					VERY STIFF YELLOW BROWN CLAY WITH LARGE PIECES OF GRAVEL

NOTES: LOSS OF WATER CIRCULATION AT 38' 0"

PHOTOGRAPHS:

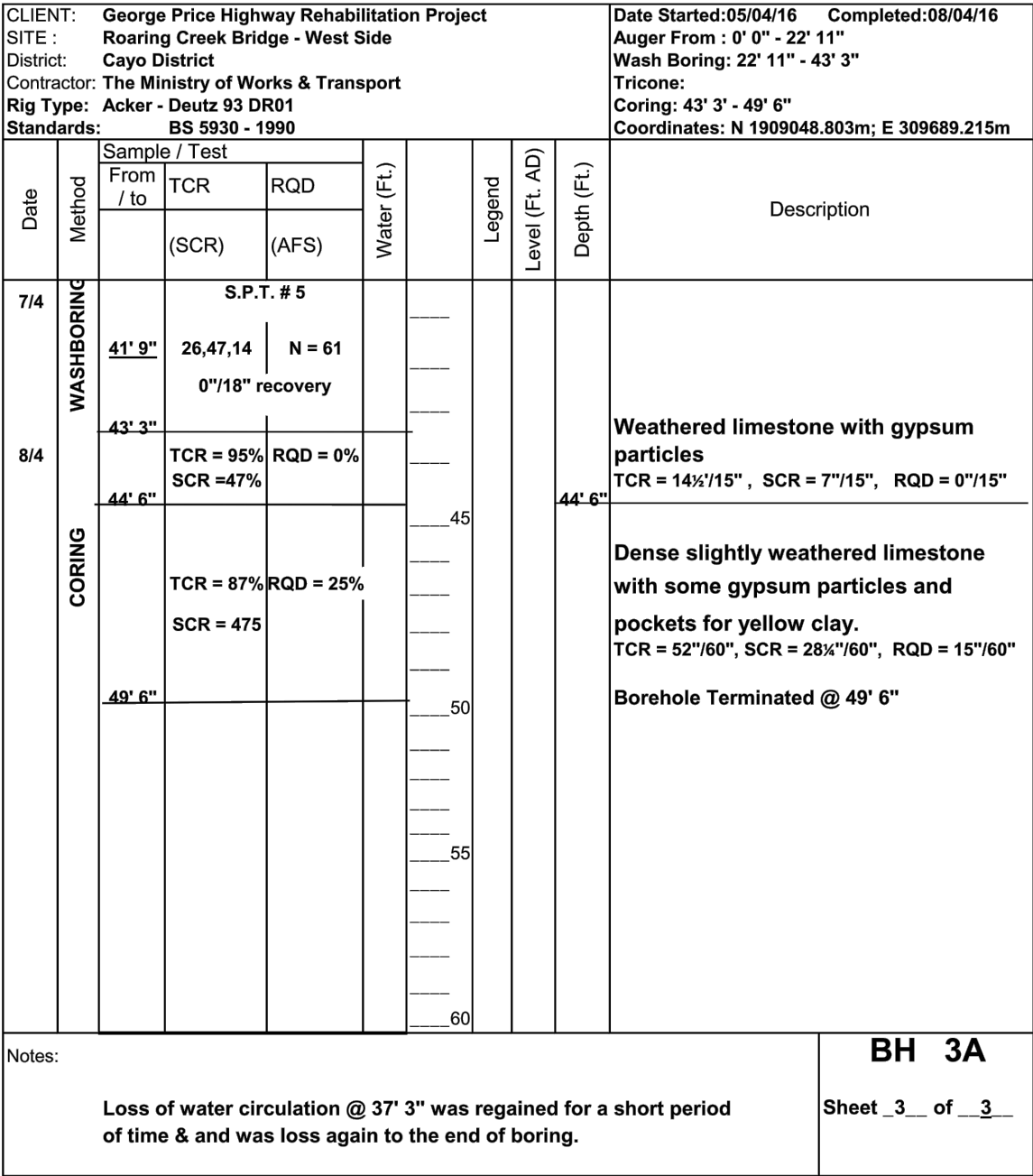
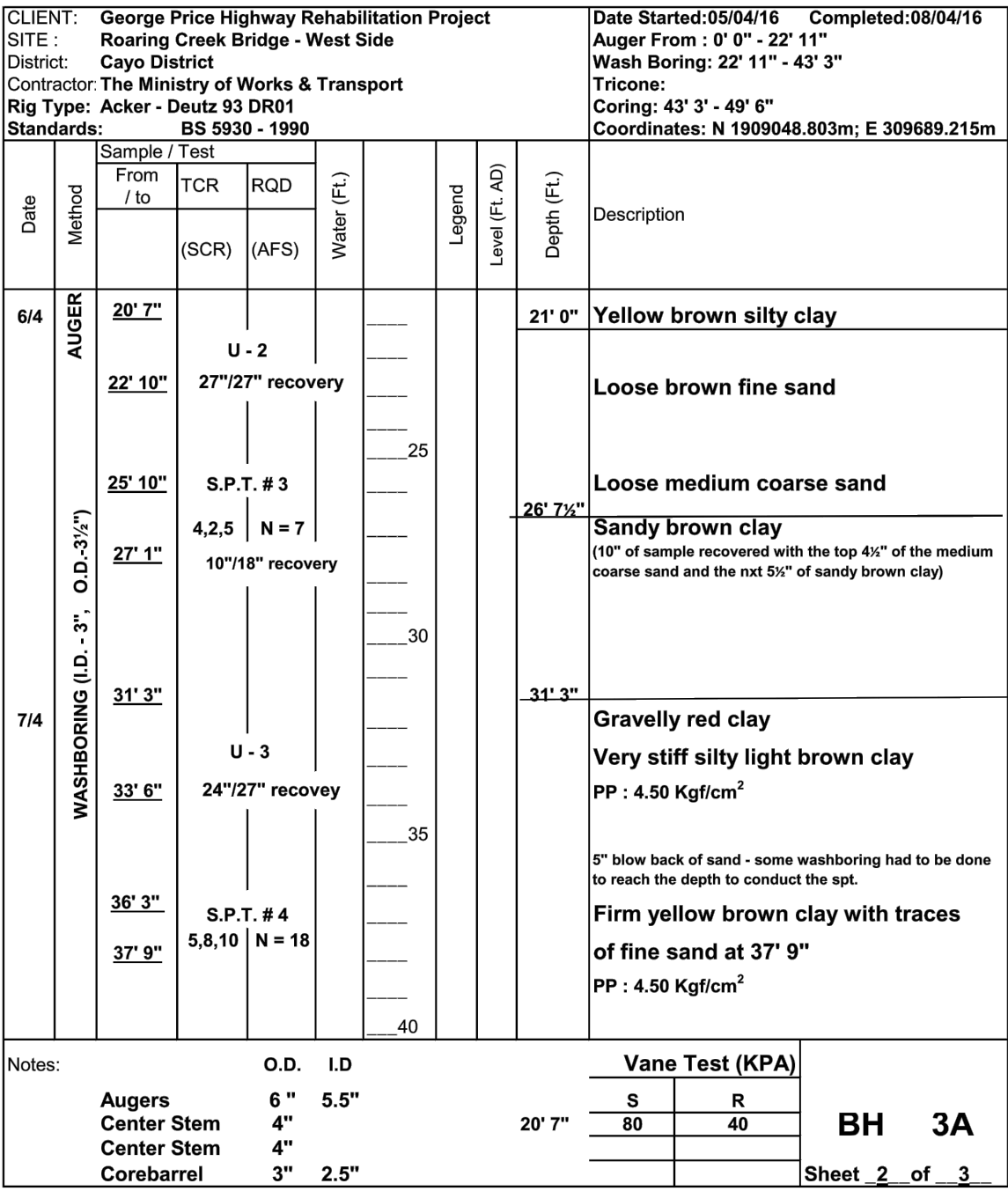
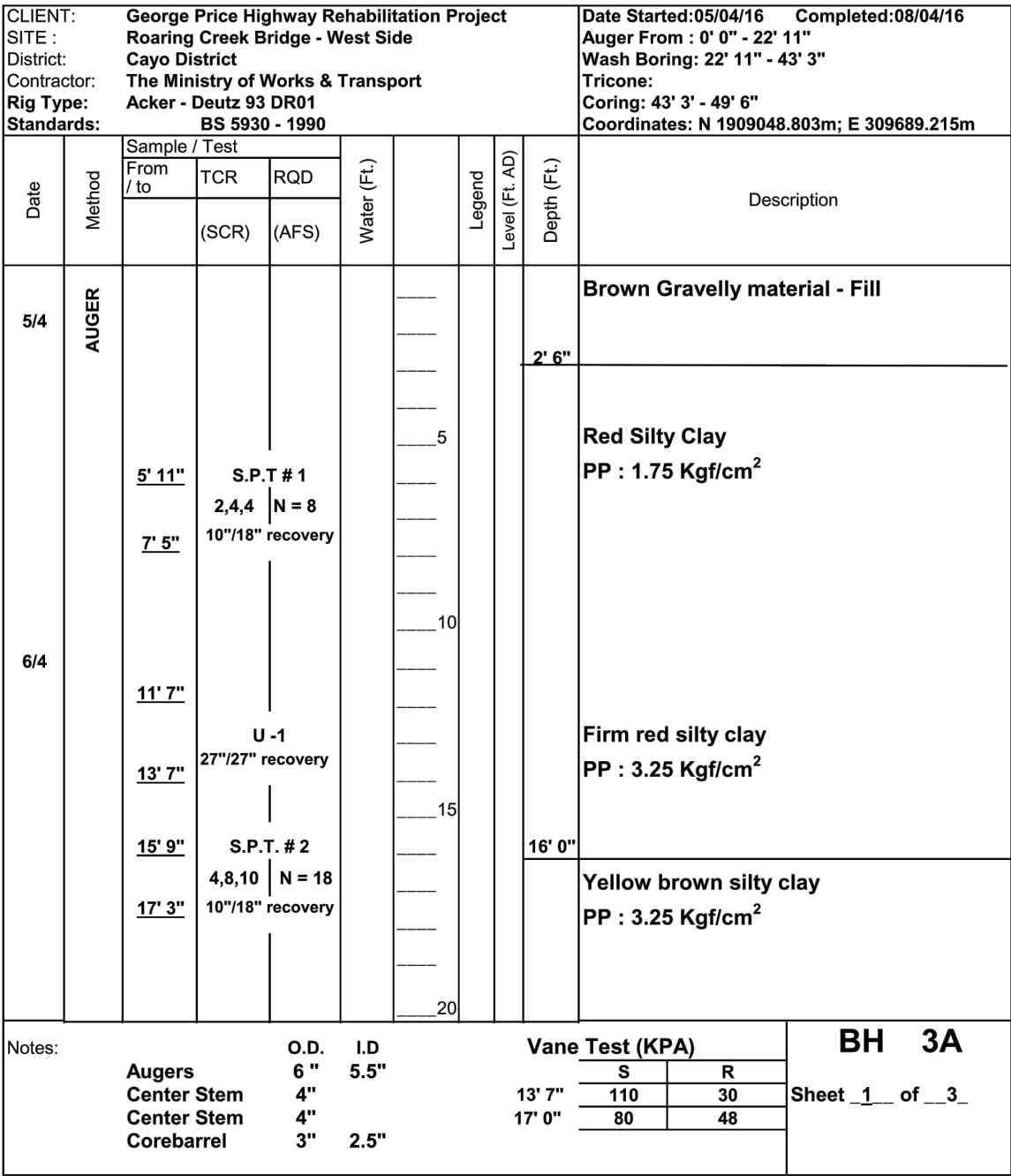
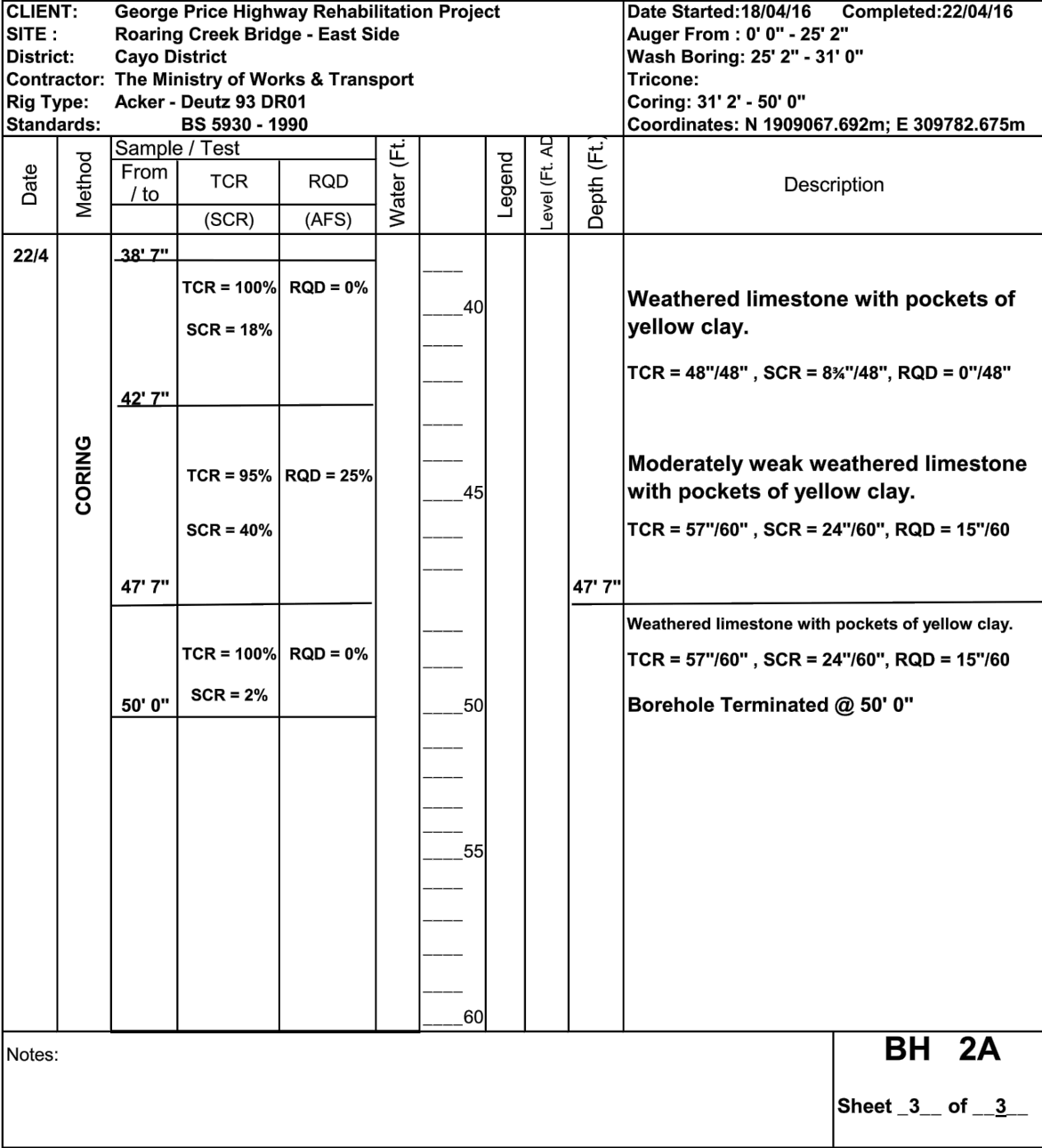
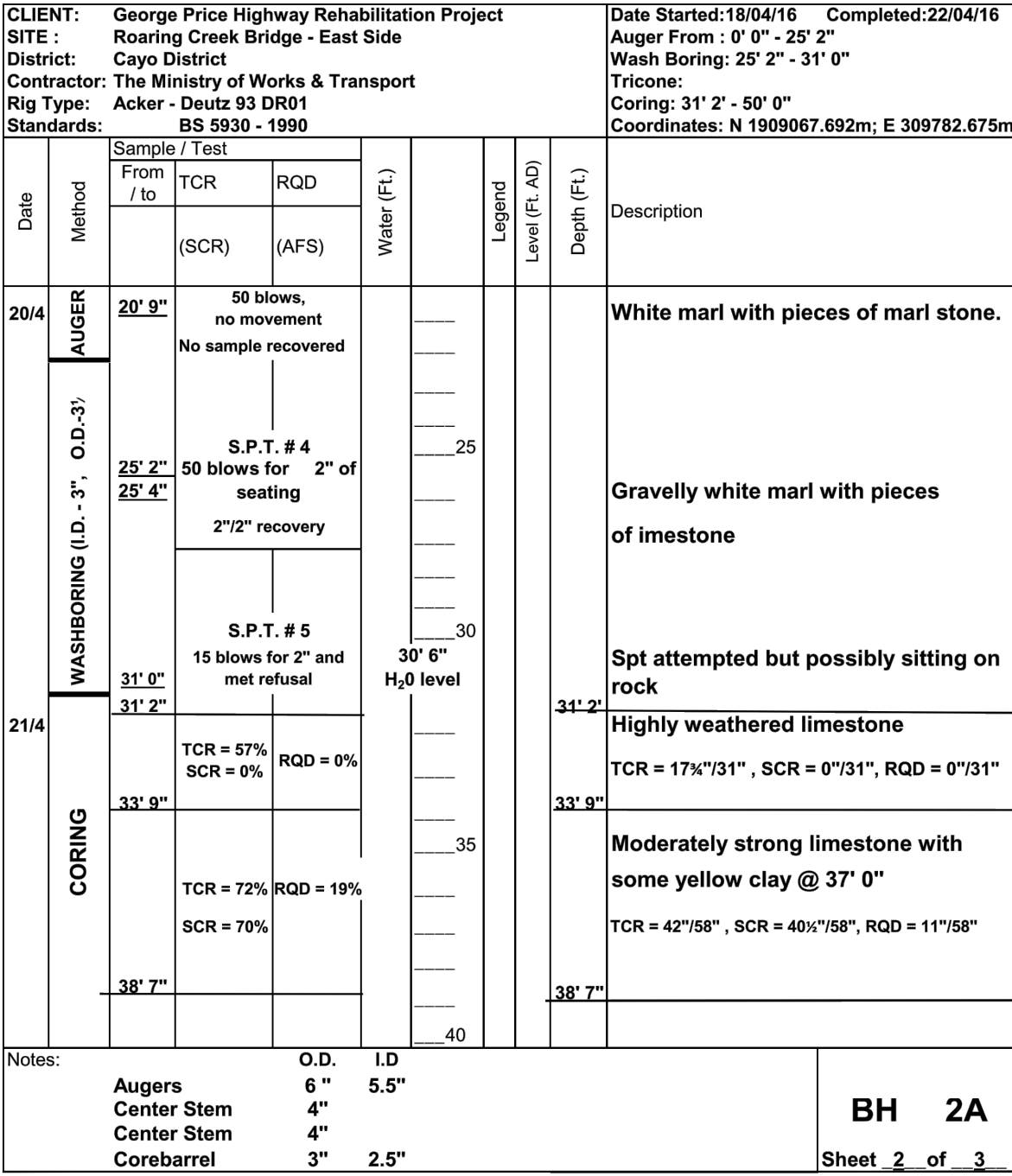
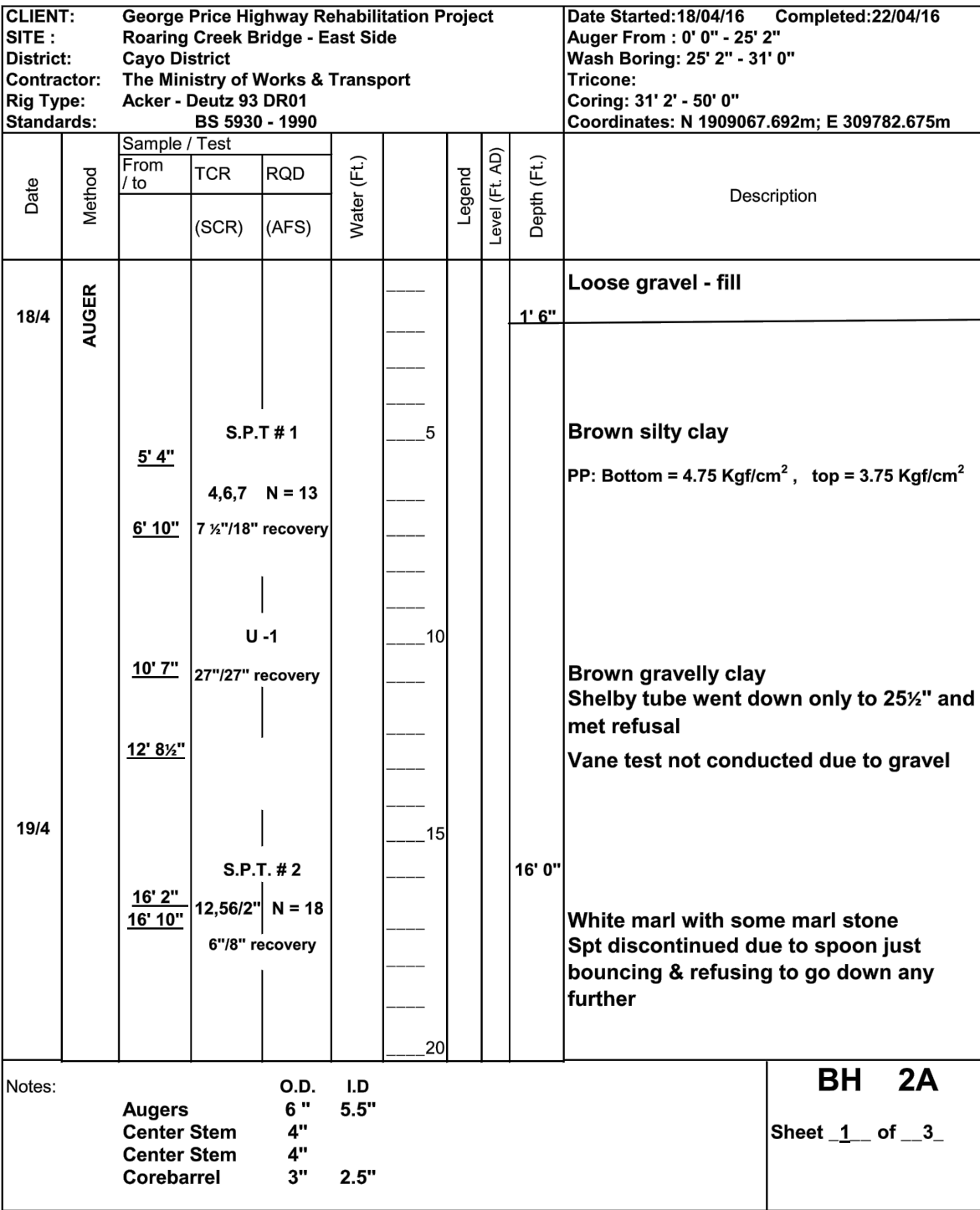
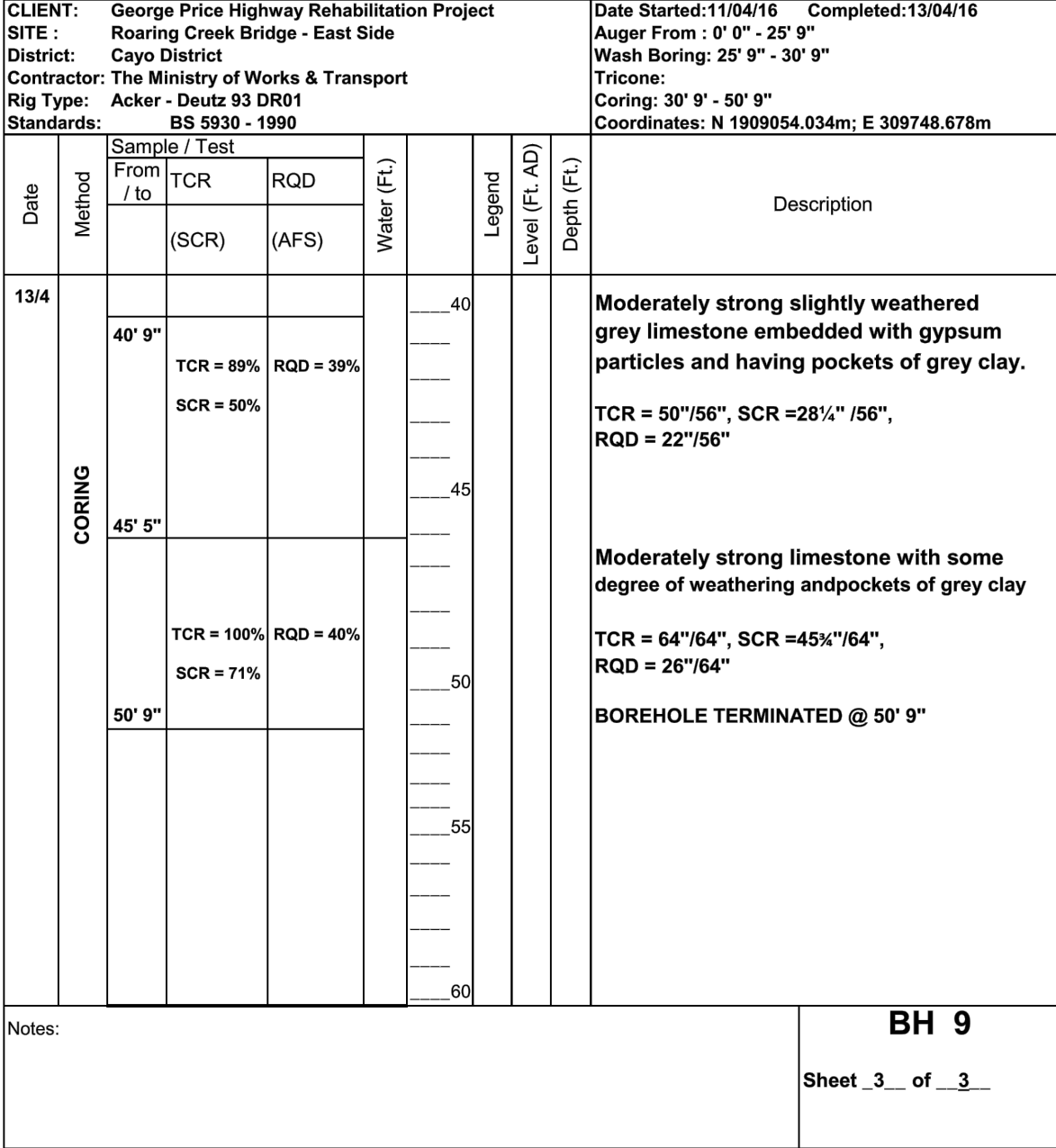
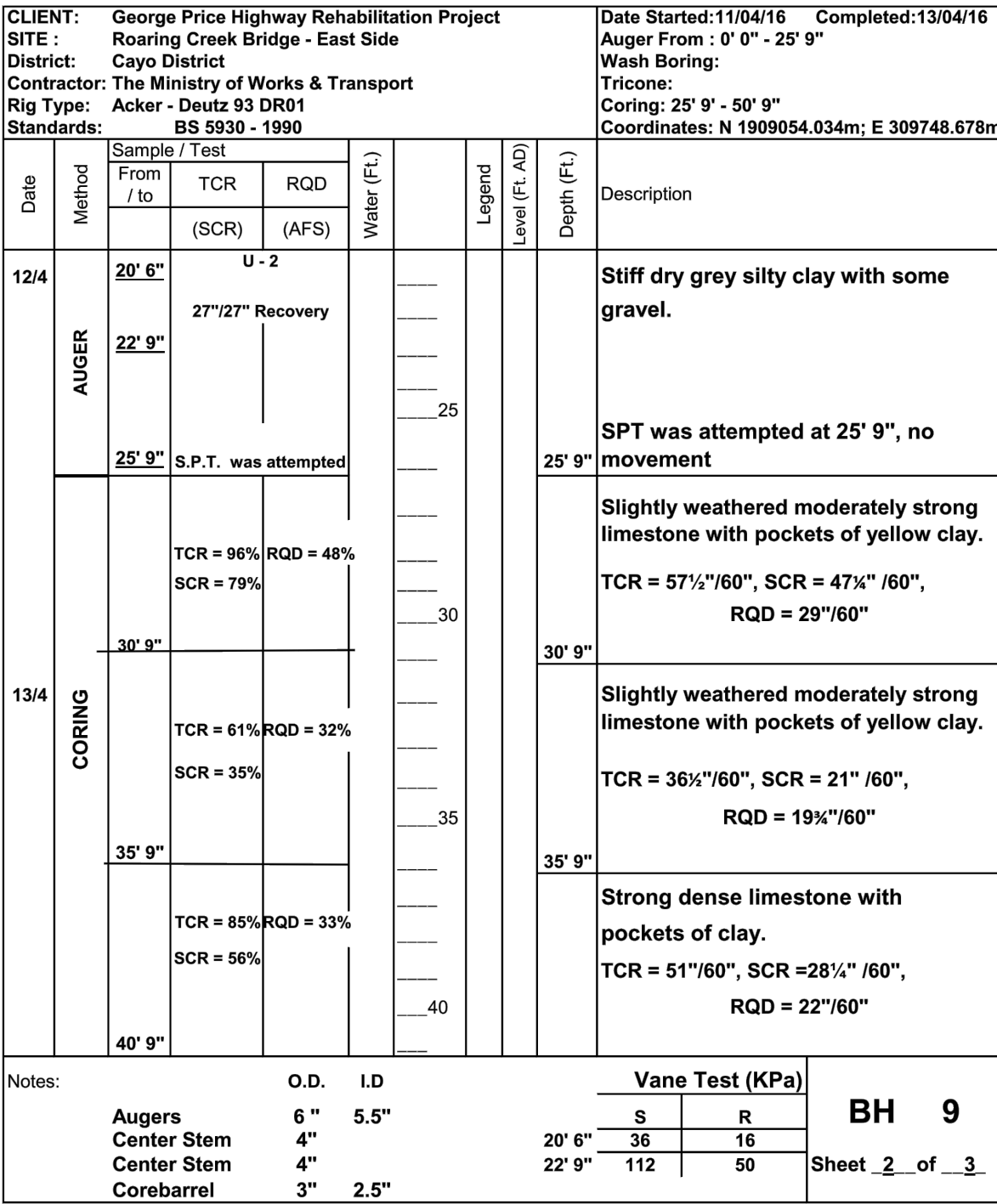
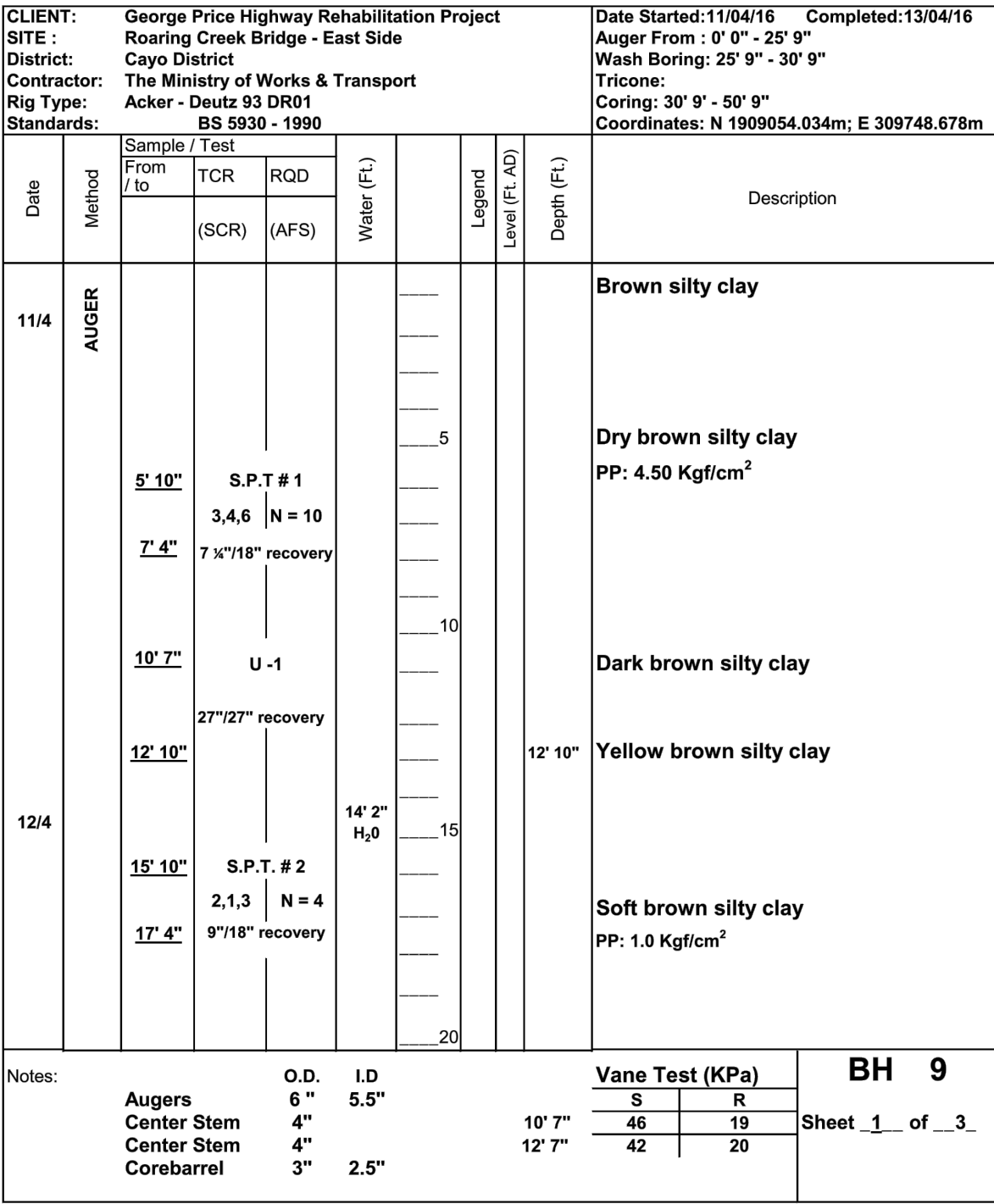
BH 3

Sheet 1 of 2

APPENDIX 2													
CLIENT: Ministry of Works & Transport SITE: Roaring Creek Bridge, Caya District, Roaring Creek Side						DATE: Started: 16/9/14 Completed: 19/9/14 AUGER FROM: 0' 0" to 22' 0" WASHBORING: 22' 0" to 46' 0" CORING: 46' 11" to 68' 8"							
RIG TYPE Aker - Deutz 93DR01													
DATE	METHOD	SAMPLE/TEST			WATER	DEPTH (Ft.)	LEGEND	LEVEL (Ft. AD)					DESCRIPTION
		FROM/TO	TCR	RQD									
			(SCR)	SPT									
18/09/14			SPT										NO SPT TO BE DONE ON THIS BOREHOLE DRILL UNTIL ROCK IS ENCOUNTERED.
													WASHBORING STARTED AT 22' 0" LOSS OF WATER CIRCULATION AT 32' 0".
													MEETING SOLID MATERIALS AT 35' 9".
													LOSS OF WATER CIRCULATION AGAIN AT 42' 11". TRICONE DOWN TO 46' 6".
													WATER LEVEL AT 6.30 CM - 37' 0".
		46' 11"	84			45							CORING AT 46' 11", 46' 11" - 48' 8" - 19".
		48' 8"	180	0		50							FIRM LIMESTONE FORMING, WEAK BRITTLE.
		53' 8"	SCR=68 27	0		55							WEATHERED LIMESTONE WITH POCKETS OF CLAY.
		58' 8"	76			60							WEATHERED LIMESTONE WITH POCKETS OF GREY AND YELLOW CLAY, HAVING GYPSUM PARTICLES.
		63' 8"	91	40		65							MODERATLEY STRONG LIMESTONE WITH SOME WEATHERING AND POCKETS OF GREY CLAY.
		68' 8"	59			70							WEATHERED LIMESTONE WITH POCKETS OF GREY AND YELLOW CLAY. BOREHOLE TERMINATED AT 68' 8".
			75	13									
NOTES:												BH 4	
TCR: Total Core Recovery SCR: Solid Core Recovery RQD: Rock Quality Designation													
Sheet 1 of 1													

APPENDIX 2												
CLIENT: Ministry of Works & Transport SITE: Roaring Creek Bridge, Caya District, Belmopan Side						DATE: Started: 29/9/14 Completed: 3/10/14 AUGER FROM: 0' 0" to 21' 9" WASHBORING: 21' 9" to 40' 7" CORING: 40' 8" to 65' 8"						
RIG TYPE Aker - Deutz 93DR01												
DATE	METHOD	SAMPLE/TEST			WATER	DEPTH (Ft.)	LEGEND	LEVEL (Ft. AD)				DESCRIPTION
		FROM/TO	TCR (SCR)	RQD								
2/10/2014		40' 8"	5,50/5"									TCR = 60% SCR = 30.75% RQD = 18% MODERATELY STRONG LIMESTONE WITH SOME DEGREE OF WEATHERING. 42' 6" - LIMESTONE CONGLOMERATE 45' 3" - WEAK LIMESTONE. POCKETS OF YELLOW-BROWN CLAY.
3/10/2014		45' 8"	100	30		45						TCR = 60% SCR = 26.5% RQD = 4.5% SLIGHTLY WEATHERED LIMESTONE WITH CONGLOMERATE OF WEAK LIMESTONE.
		50' 8"	100	8		50						TCR = 57% SCR = 9.75% RQD = 0% WEEK TO MODERATE LIMESTONE WITH SOFT YELLOW BROWN MARL STONE
		55' 8"	44	0		55						TCR = 60% SCR = 14% RQD = 0% MODERATELY WEAK LIMESTONE WITH SOME CLAY.
		60' 8"	16	0		60						TCR = 60' SCR = 33 RQD = 10.75 MODERATELY STRONG LIMESTONE EMBEDDED WITH YELLO CLAY
		65' 8"	100	18		65						BOREHOLE TERMINATED AT 65' 8"
						70						
						75						
						80						
NOTES:										BH 2		
TCR: Total Core Recovery SCR: Solid Core Recovery RQD: Rock Quality Designation										Sheet 2 of 2		

APPENDIX 2									
CLIENT: Ministry of Works & Transport SITE: Roaring Creek Bridge, Caya District, Roaring Creek Side					DATE: Started: 06/10/14 Completed: 10/10/14 AUGER FROM: 0' 0" to 22' 3" WASHBORING: 22' 3" to 48' 9" CORING: 49' 4" to 67' 4"				
RIG TYPE Aker - Deutz 93DR01									
DATE	METHOD	SAMPLE/TEST			WATER	LEGEND	LEVEL (Ft. AD)	DEPTH (Ft.)	DESCRIPTION
		FROM/TO	TCR (SCR)	RQD (AFS)					
9/10/2014		SPT							
	42' 0"	9,14,25	N=39						
	45' 7"	21,10,7	N=17				45		GRAVELLY, MINIMAL SAMPLE, STIFF YELLOW, BROWN CLAY (SPT RECOVERY), PIECES OF CREAM LIMESTONE.
	48' 8"	50/3 .5							
		95%	35%				50		TRC = 38% SCR = 27.5% RQD = 14% MODERATELY STRONG, CREAM LIMESTONE, 48' 8" - YELLOW BROWN WEATHERED STRONG LIMESTONE.
	52' 4"	69%							
		48%	18%				55		TCR = 29% SCR = 14.25% RQD = 10.75% MINIMAL RECOVERY, YELLOW BROWN - WEATHERED MODERATELY STRON LIMESTONE. CREAM STRON LIMESTONE HAVING GREY CLAY.
10/10/2014	57' 4"	24%							
		10%	18%				60		TCR = 60% SCR = 43.75% RQD = 29.5% MODERATELY STRONG YELLOW BROWN LIMESTONE WITH SOME DEGREE OF WEATHERING AND POCKETS OF CLAY.
	62' 4"	70%							
		95%	45%				65		TCR=57% SCR=37.5% RQD=26% STRONG CREAM LIMESTONE WITH POCKETS OF GREY CLAY.
	67' 4"	63%							
							70		WEAK LIMESTONE WITH GREY CLAY. BOREHOLE TERMINATED AT 67' 4"
							75		
							80		



Notes:

1. DETAILS OF THE SOIL BORINGS AND LABORATORY DATA CAN BE FOUND WITHIN THE GEOTECHNICAL DESIGN NOTE.
2. FOR BOREHOLE LOCATIONS REFER TO DRAWING GPHRP/060/S1/B01/D001.
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS GPHRP/060/S1/B01/D001 AND GPHRP/060/S1/B01/D003.

100% FINAL DESIGN

C	KMU	SAM	MS	15.0.16	STAMP UPDATED – NO CHANGE FROM 100% DESIGN
B	KMU	SAM	MS	05.02.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMU	SAM	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

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Project

George Price Highway
Rehabilitation Project

Drawing Title

SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
RECORD OF BOREHOLES
SHEET 2 OF 2

Drawn by KMJ Date: SEPT 16, 2016

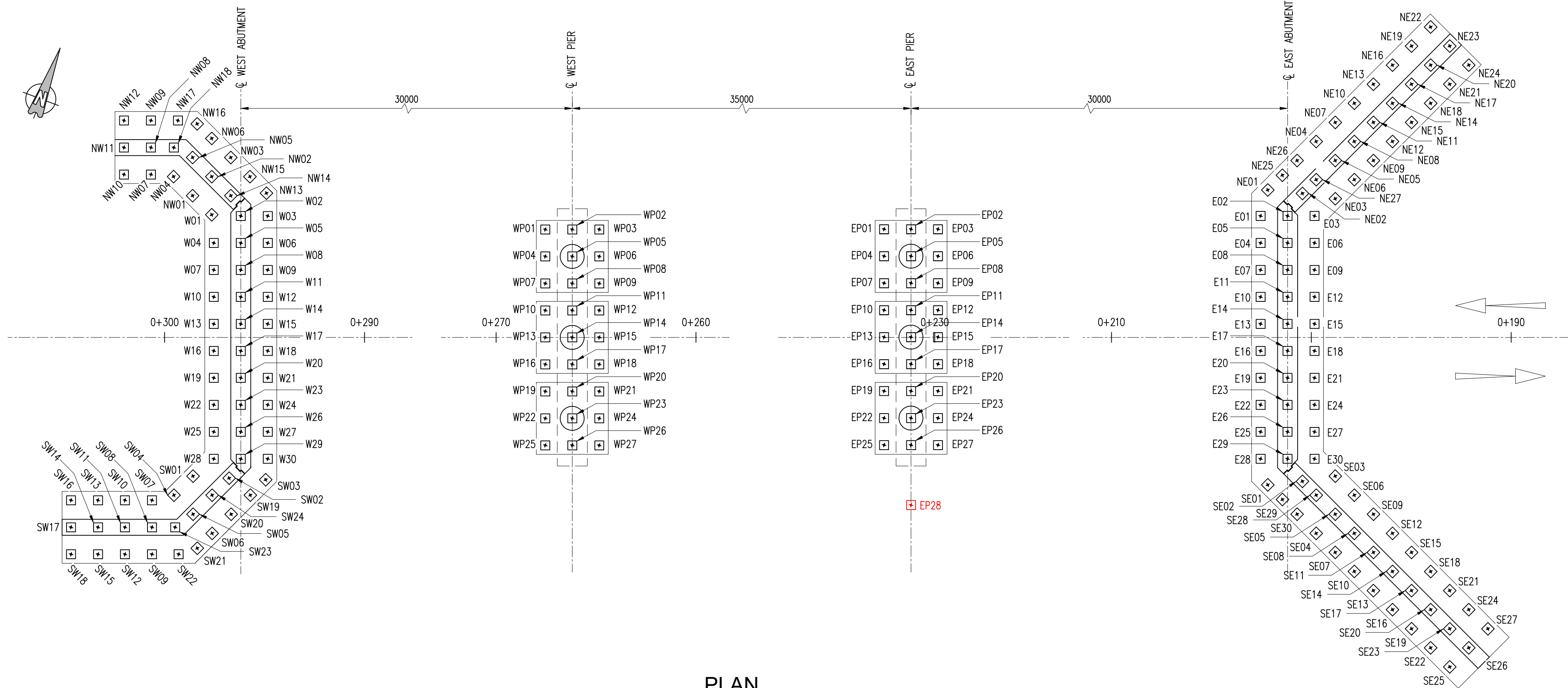
Checked by SAM Date: SEPT 16, 2016

Authorised by MS Date: SEPT 16, 2016

Drawing No. GPHRP/060/S1/B01/D004 Revision C

Drawing Scale: As noted on A1

Plot Scale: 1 : 1



PLAN
SCALE 1:150

SETTING OUT POINTS

NAME	SOP [EASTING, NORTHING]
W01	309681.403, 1909047.657
W02	309682.698, 1909048.039
W03	309683.993, 1909048.421
W04	309681.785, 1909046.363
W05	309683.080, 1909046.745
W06	309684.375, 1909047.127
W07	309682.167, 1909045.068
W08	309683.462, 1909045.450
W09	309684.757, 1909045.832
W10	309682.549, 1909043.773
W11	309683.844, 1909044.155
W12	309685.139, 1909044.537
W13	309682.931, 1909042.478
W14	309684.226, 1909042.860
W15	309685.521, 1909043.242
W16	309683.313, 1909041.183
W17	309684.608, 1909041.565
W18	309685.902, 1909041.947
W19	309683.695, 1909039.888
W20	309684.990, 1909040.270
W21	309686.284, 1909040.652
W22	309684.077, 1909038.594
W23	309685.372, 1909038.976
W24	309686.666, 1909039.358
W25	309684.459, 1909037.299
W26	309685.754, 1909037.681
W27	309687.048, 1909038.063
W28	309684.841, 1909036.004
W29	309686.136, 1909036.386
W30	309687.430, 1909036.768

NAME	SOP [EASTING, NORTHING]
NW01	309680.101, 1909048.333
NW02	309680.747, 1909049.518
NW03	309681.393, 1909050.703
NW04	309678.916, 1909048.979
NW05	309679.561, 1909050.164
NW06	309680.207, 1909051.349
NW07	309677.800, 1909048.758
NW08	309677.418, 1909050.053
NW09	309677.036, 1909051.348
NW10	309676.505, 1909048.376
NW11	309676.123, 1909049.671
NW12	309675.741, 1909050.966
NW13	309683.606, 1909049.498
NW14	309681.932, 1909048.872
NW15	309682.578, 1909050.057
NW16	309679.301, 1909051.843
NW17	309678.331, 1909051.730
NW18	309678.519, 1909050.378

NAME	SOP [EASTING, NORTHING]
SW01	309684.089, 1909034.882
SW02	309685.851, 1909035.296
SW03	309687.627, 1909035.735
SW04	309683.444, 1909033.696
SW05	309684.630, 1909033.051
SW06	309685.816, 1909032.406
SW07	309682.460, 1909033.138
SW08	309682.842, 1909031.844
SW09	309683.224, 1909030.549
SW10	309681.165, 1909032.756
SW11	309681.547, 1909031.462
SW12	309681.929, 1909030.167
SW13	309679.871, 1909032.374
SW14	309680.253, 1909031.080
SW15	309680.635, 1909029.785
SW16	309678.576, 1909031.992
SW17	309678.958, 1909030.698
SW18	309679.340, 1909029.403
SW19	309687.106, 1909034.778
SW20	309713.955, 1909048.112
SW21	309685.312, 1909031.480
SW22	309684.505, 1909030.926
SW23	309683.955, 1909032.172
SW24	309685.275, 1909034.237

NAME	SOP [EASTING, NORTHING]
WP01	309710.368, 1909055.499
WP02	309711.663, 1909055.881
WP03	309712.957, 1909056.263
WP04	309710.750, 1909054.204
WP05	309712.045, 1909054.586
WP06	309713.339, 1909054.968
WP07	309711.132, 1909052.909
WP08	309712.427, 1909053.291
WP09	309713.721, 1909053.673
WP10	309711.514, 1909051.615
WP11	309712.809, 1909051.996
WP12	309714.103, 1909052.378
WP13	309711.896, 1909050.320
WP14	309713.191, 1909050.702
WP15	309714.485, 1909051.084
WP16	309712.278, 1909049.025
WP17	309713.573, 1909049.407
WP18	309714.867, 1909049.789
WP19	309712.660, 1909047.730
WP20	309713.955, 1909058.028
WP21	309715.249, 1909048.494
WP22	309713.042, 1909046.435
WP23	309714.336, 1909046.817
WP24	309715.631, 1909047.199
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WP26	309714.718, 1909045.522
WP27	309716.013, 1909045.904

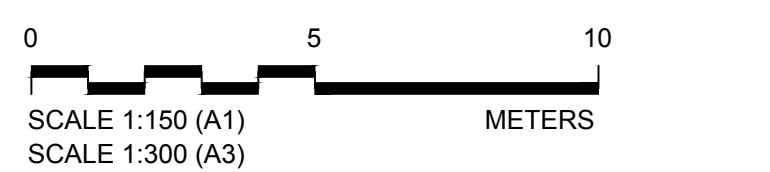
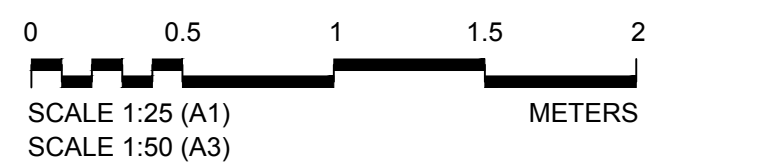
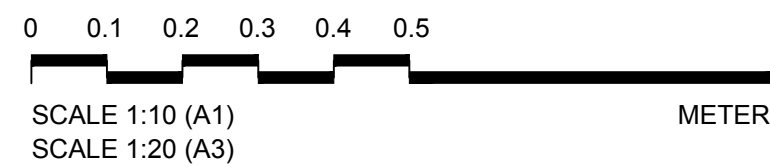
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EP01	309743.934, 1909065.415
EP02	309745.228, 1909065.797
EP03	309746.523, 1909066.179
EP04	309744.316, 1909064.121
EP05	309745.610, 1909064.503
EP06	309746.905, 1909064.885
EP07	309744.698, 1909062.826
EP08	309745.992, 1909063.208
EP09	309747.287, 1909063.590
EP10	309745.080, 1909061.531
EP11	309746.374, 1909061.913
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EP19	309746.226, 1909057.646
EP20	309747.520, 1909058.028
EP21	309748.815, 1909058.410
EP22	309746.607, 1909056.352
EP23	309747.902, 1909056.734
EP24	309749.197, 1909057.116
EP25	309746.989, 1909055.057
EP26	309748.284, 1909055.439
EP27	309749.579, 1909055.821
EP28	309749.133, 1909052.561

NAME	SOP [EASTING, NORTHING]
E01	309772.521, 1909074.538
E02	309773.816, 1909074.920
E03	309775.110, 1909075.302
E04	309772.903, 1909073.243
E05	309774.198, 1909073.625
E06	309775.492, 1909074.007
E07	309773.285, 1909071.948
E08	309774.580, 1909072.330
E09	309775.874, 1909072.712
E10	309773.667, 1909070.653
E11	309774.961, 1909071.035
E12	309776.256, 1909071.417
E13	309774.049, 1909069.358
E14	309775.343, 1909069.740
E15	309776.638, 1909070.122
E16	309774.431, 1909068.063
E17	309775.725, 1909068.445
E18	309777.020, 1909068.827
E19	309774.813, 1909066.769
E20	309776.546, 1909084.184
E21	309777.402, 1909067.533
E22	309775.195, 1909065.474
E23	309776.489, 1909065.856
E24	309777.784, 1909066.238
E25	309775.577, 1909064.179
E26	309776.871, 1909064.561
E27	309778.166, 1909064.943
E28	309775.959, 1909062.884
E29	309777.253, 1909063.266
E30	309778.548, 1909063.648

NAME	SOP [EASTING, NORTHING]
NE01	309772.497, 1909075.887
NE02	309774.210, 1909076.211
NE03	309775.862, 1909076.423
NE04	309774.135, 1909078.899
NE05	309775.321, 1909078.254
NE06	309776.507, 1909077.609
NE07	309774.780, 1909080.085
NE08	309775.966, 1909079.440
NE09	309777.152, 1909078.795
NE10	309775.425, 1909081.271
NE11	309776.611, 1909080.626
NE12	309777.797, 1909079.981
NE13	309776.070, 1909082.457
NE14	309777.256, 1909081.812
NE15	309778.442, 1909081.167
NE16	309776.715, 1909083.643
NE17	309777.901, 1909082.998
NE18	309779.087, 1909082.352
NE19	309777.361, 1909084.829
NE20	309778.546, 1909084.184
NE21	309779.732, 1909083.538
NE22	309778.006, 1909086.015
NE23	309779.192, 1909085.369
NE24	309780.378, 1909084.724
NE25	309772.991, 1909076.802
NE26	309773.490, 1909077.713
NE27	309774.676, 1909077.068

NAME	SOP [EASTING, NORTHING]
SE01	309776.671, 1909061.737
SE02	309778.285, 1909062.395
SE03	309779.788, 1909063.114
SE04	309779.682, 1909060.097
SE05	309780.328, 1909061.283
SE06	309780.974, 1909062.468
SE07	309780.867, 1909059.451
SE08	309781.513, 1909060.637
SE09	309782.159, 1909061.822
SE10	309782.053, 1909058.805
SE11	309782.699, 1909059.991
SE12	309783.344, 1909061.176
SE13	309783.238, 1909058.159
SE14	309783.884, 1909059.345
SE15	309784.530, 1909060.530
SE16	309784.424, 1909057.514
SE17	309785.070, 1909058.699
SE18	309785.715, 1909059.885
SE19	309785.609, 1909056.868
SE20	309786.255, 1909058.053
SE21	309786.901, 1909059.239
SE22	309786.795, 1909056.222
SE23	309787.441, 1909057.407
SE24	309788.086, 1909058.593
SE25	309787.980, 1909055.576
SE26	309788.626, 1909056.762
SE27	309789.272, 1909057.947
SE28	309779.142, 1909061.928
SE29	309777.584, 1909061.240
SE30	309778.496, 1909060.743

- Notes:
- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - ALL ELEVATIONS ARE IN METERS AND RELATE TO PROJECT DATUM.
 - FOR PILE INSTALLATION SEE SPECIFICATIONS.
 - CONTRACTOR SHALL, BEFORE COMMENCING PILE INSTALLATION, CONFIRM ALL WORK POINTS WITH THE ENGINEER.
 - REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414 \text{ MPa}$).
 - CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 35 MPa .
 - COVER TO REINFORCEMENT SHALL BE 75 mm EXCEPT WHERE STATED OTHERWISE.
 - PRESTRESSING STEEL SHALL BE LOW-RELAXATION SEVEN WIRE STRANDS, SIZE DESIGNATION 12.7, GRADE 1860.
 - THE STRANDS SHALL BE LOCATED AS FOLLOWS: PLACE ONE STRAND AT EACH CORNER AND PLACE THE REMAINING STRANDS EQUALLY SPACED BETWEEN THE CORNER STRANDS; THE TOTAL STRAND PATTERN SHALL BE CONCENTRIC WITH THE NOMINAL CONCRETE SECTION OF THE PILE.
 - PILE EP28 TO BE LOAD TESTED PRIOR TO PRODUCTION INSTALLATION.



100% FINAL DESIGN

D	KMJ	SAM	MS	15/10/16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
C	KMJ	SAM	MS	05/10/16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
B	KMJ	SAM	MS	11/07/16	90% DESIGN ISSUE
A	KMJ	USP	MS	12/05/16	60% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project
George Price Highway Rehabilitation Project

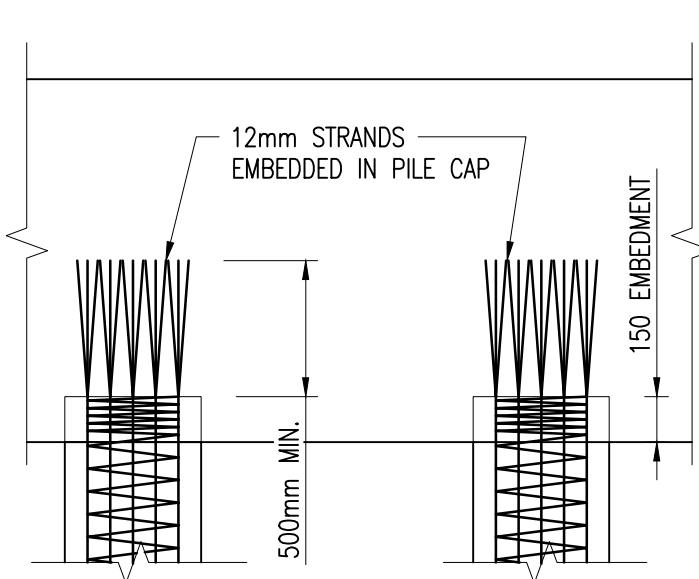
Drawing Title
SECTION 1
ROARING CREEK BRIDGE
PILE LAYOUT & DETAILS

Drawn by: KMJ Date: MAY 12, 2016
Checked by: SAM Date: MAY 12, 2016
Authorised by: MS Date: MAY 12, 2016

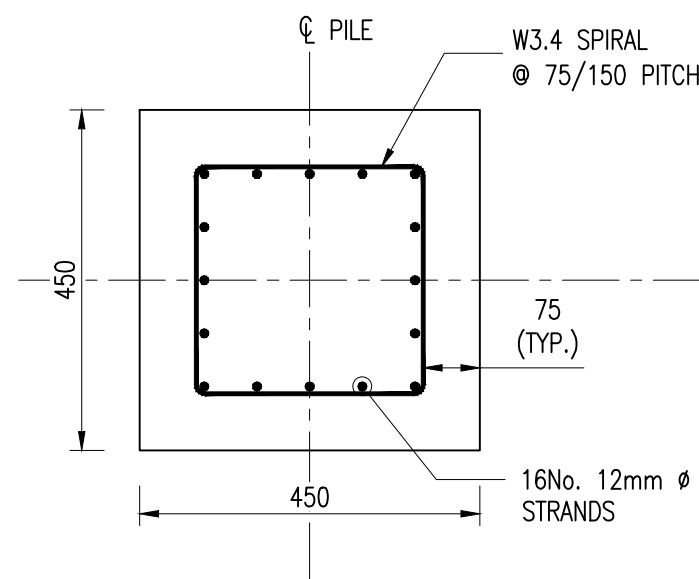
Drawing No. GPHRP/060/S1/B01/D005
Revision D

Drawing Scale: As noted on A1
Plot Scale: 1 : 1

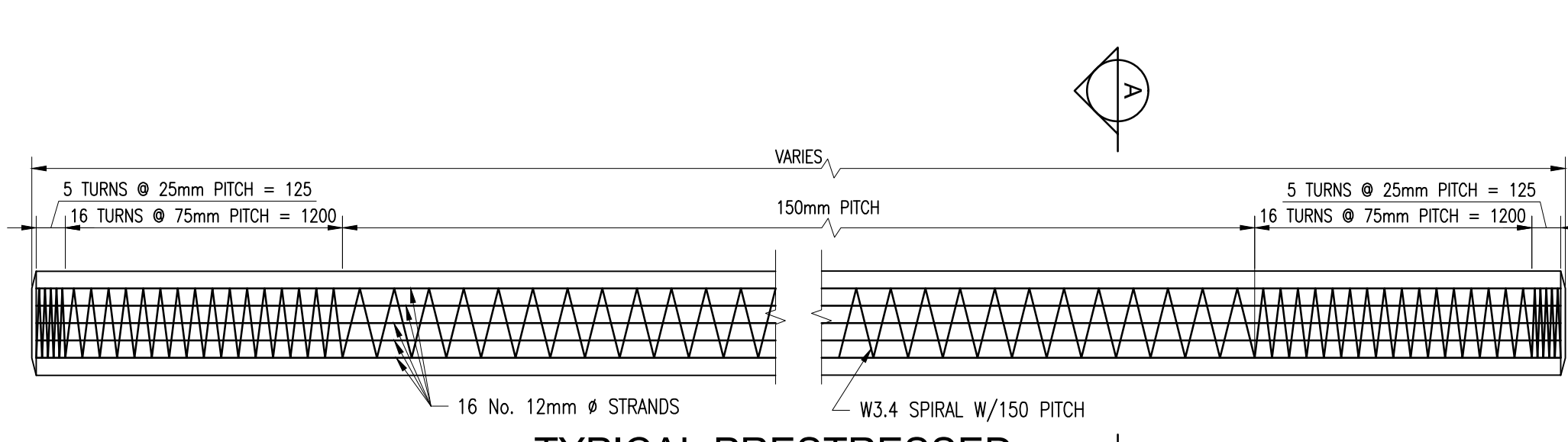
PILES	CUTOFF ELEVATION (m)	FINAL TIP ELEVATION (m)	PILE LENGTH (m)	FACTORED RESISTANCE IN COMPRESSION (kN)	
				STRENGTH	EXTREME EVENT
WEST ABUTMENT	29.830	14.830	15.00	2228	7341
WEST WINGWALLS	29.830	14.830	15.00	2228	7341
EAST ABUTMENT	28.707	16.707	12.00	1571	6870
EAST WINGWALLS	28.707	16.707	12.00	1571	6870
WEST PIER	18.245	11.245	7.00	984	3280
EAST PIER	18.420	11.420	7.00	984	3280



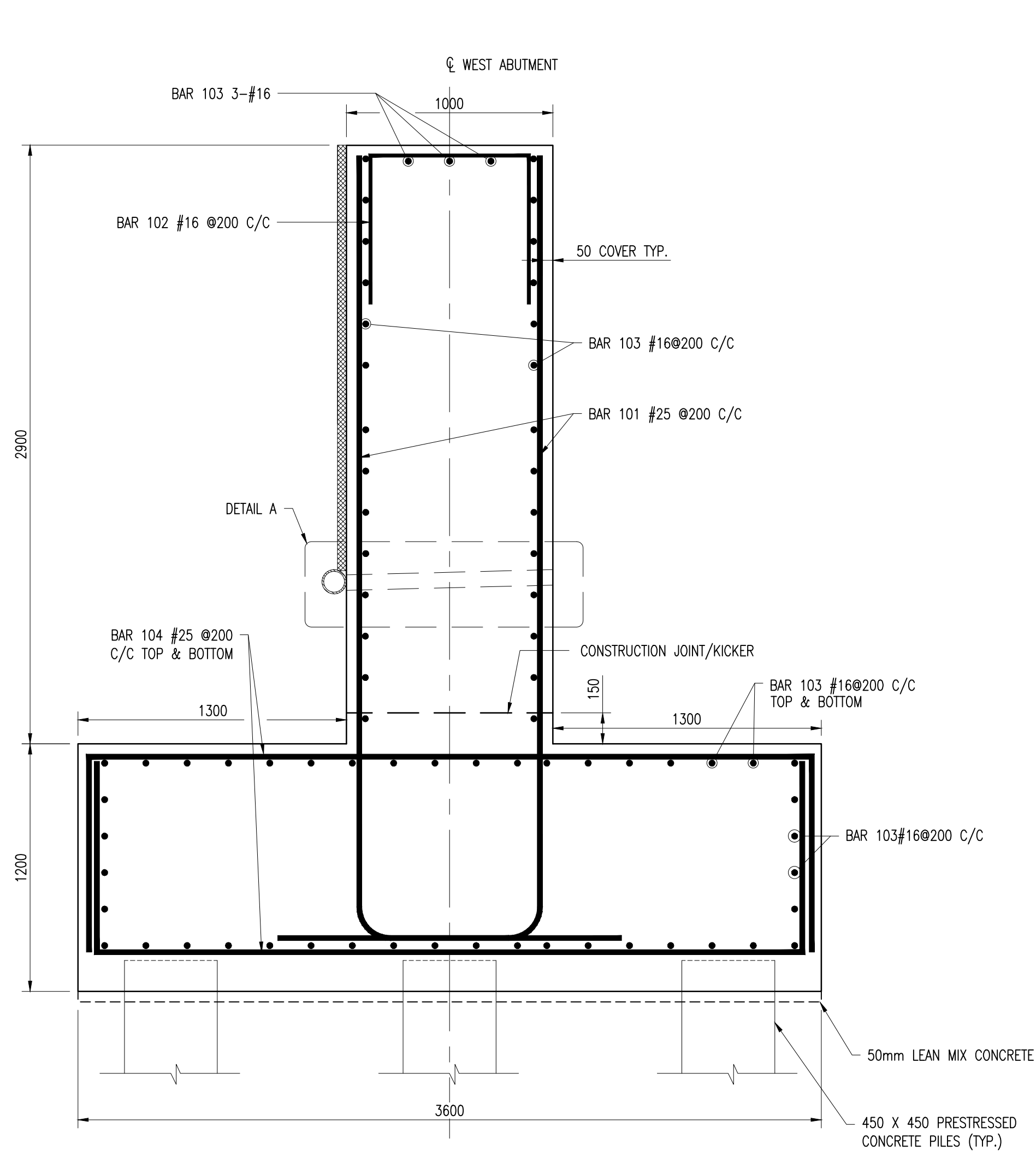
PILE CUT-OFF DETAIL
SCALE 1:25



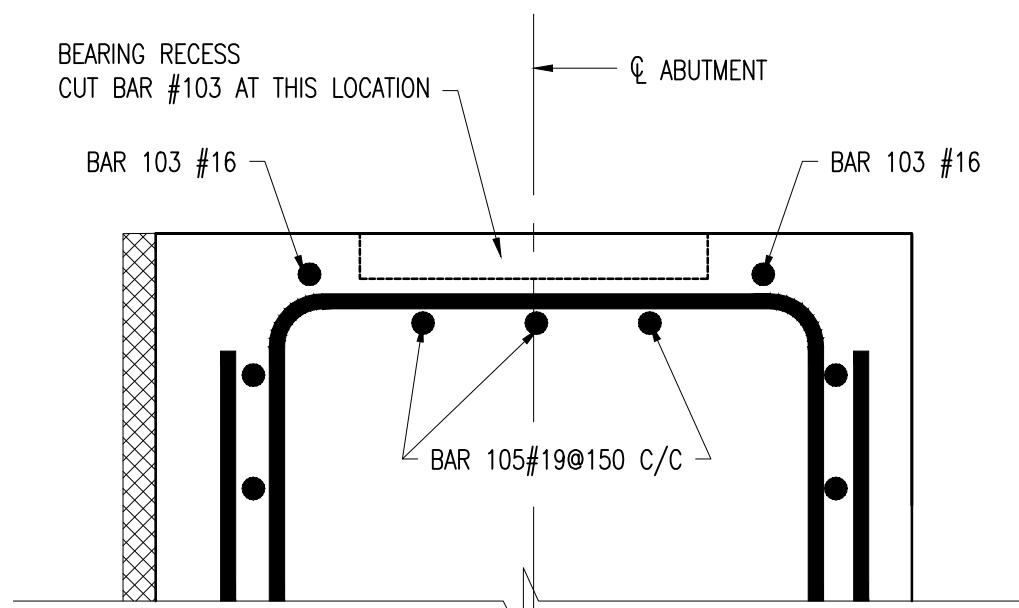
SECTION A-A
SCALE 1:10



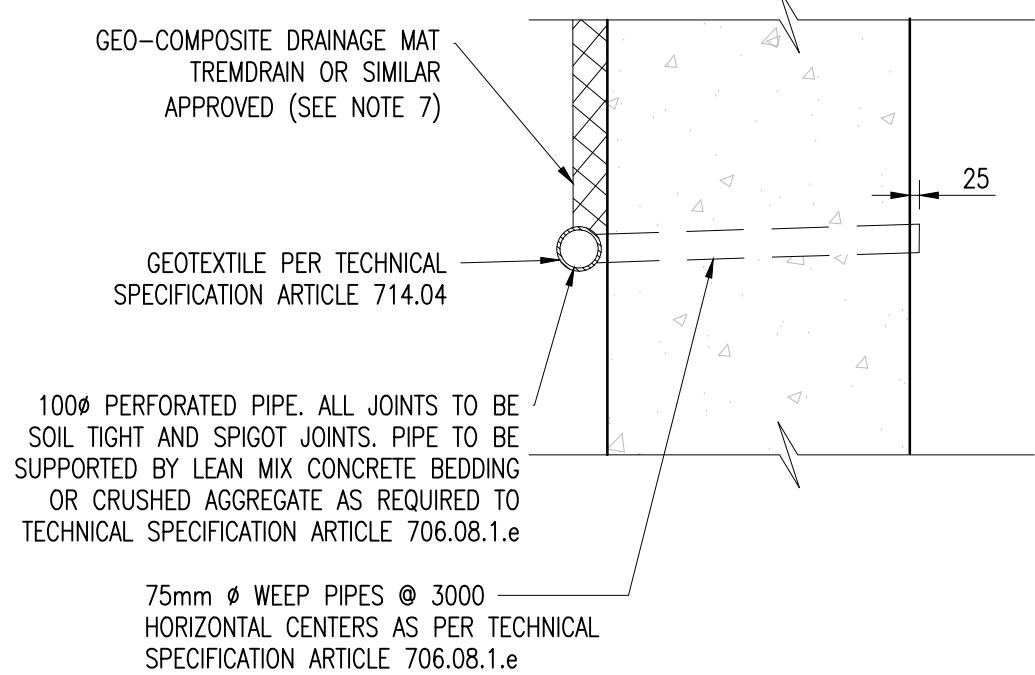
TYPICAL PRESTRESSED
PILE ELEVATION
SCALE 1:25



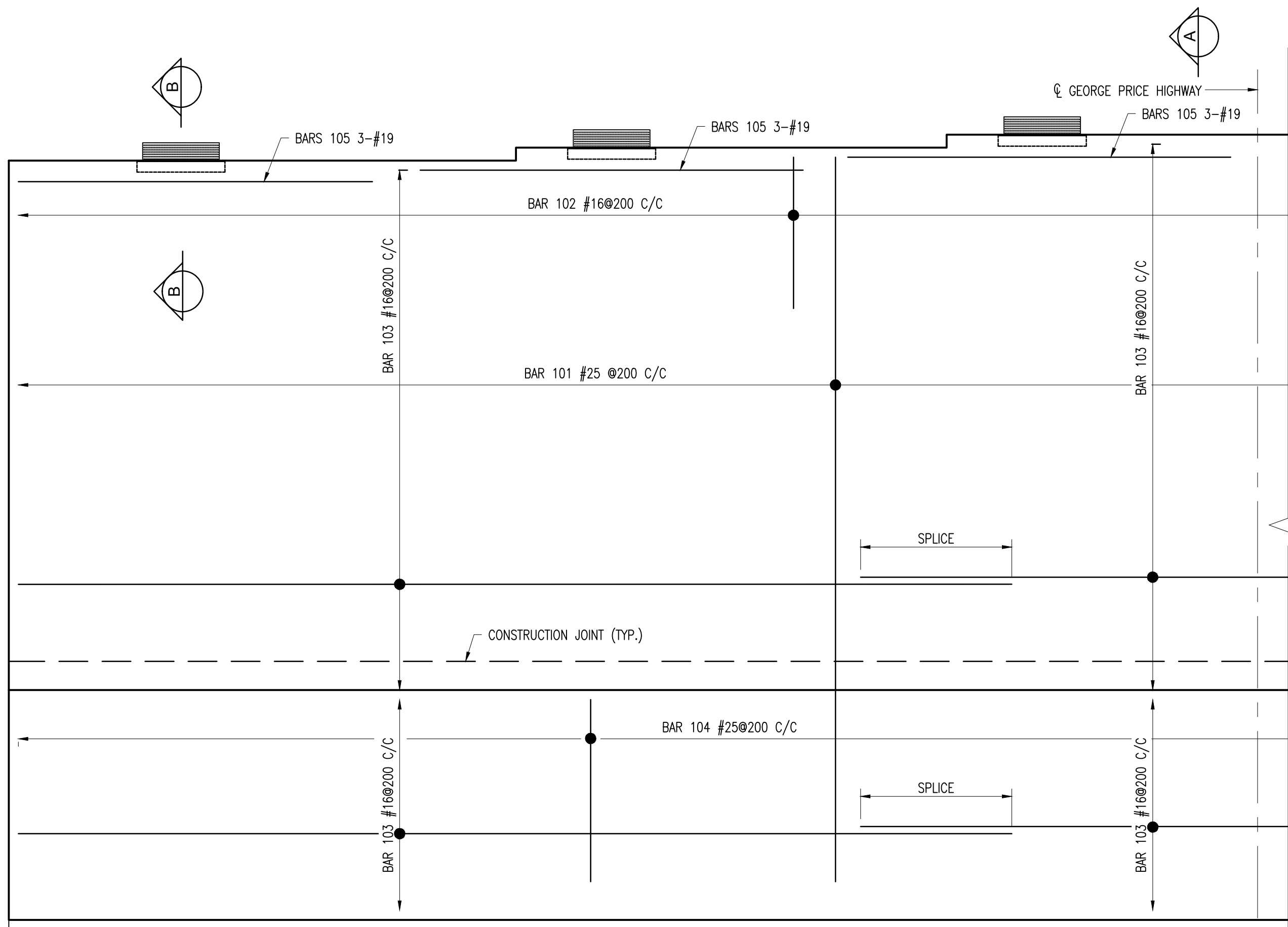
SECTION A-A
SCALE 1:20



SECTION B-B AT BEARING LOCATION
SCALE 1:10



DETAIL A
SCALE 1:20



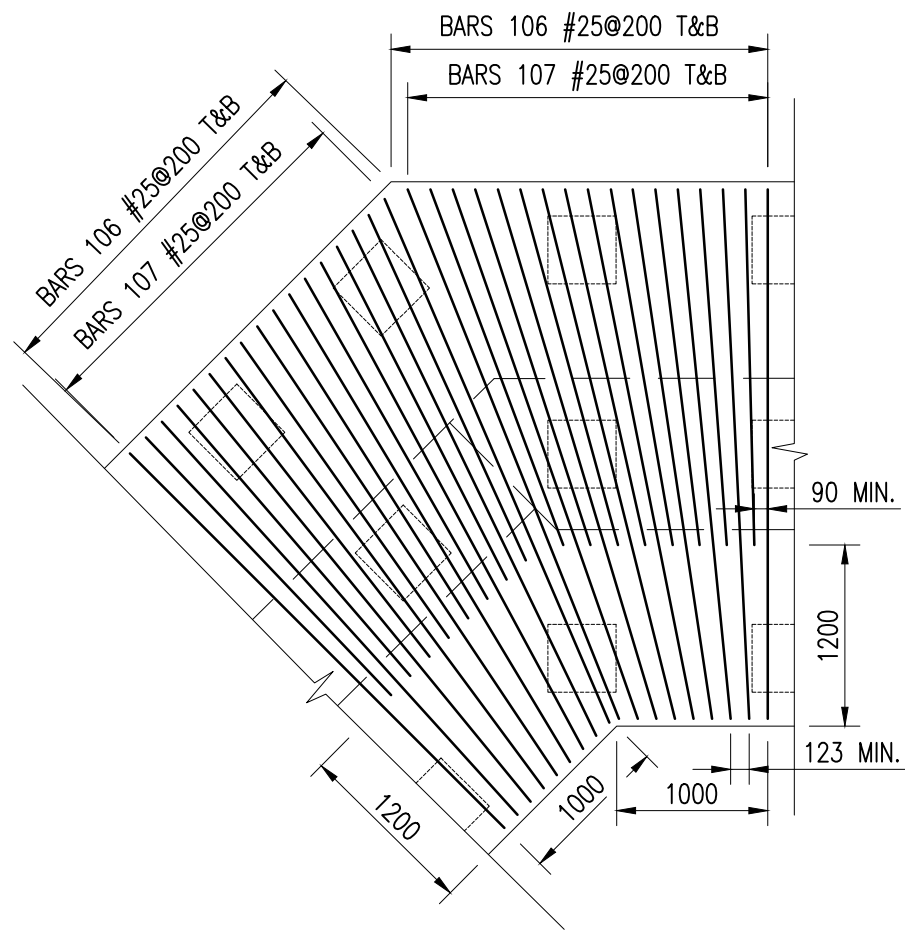
WEST ABUTMENT WALL
SCALE 1:20
SYMMETRICAL ALONG CL GEORGE PRICE HIGHWAY

REINFORCING SCHEDULE

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "I" [mm]	Dim "N" [mm]
101	25	10	200		VARIES 3750 - 3850	1270				
102	16	11	200		810	720	720			
103	16	1	200		12000					
104	25	11	200		3500	925	925			
105	19	1			2000					
106	25	11			VARIES	925	925			
107	25	10	150		VARIES	925				

NOTES:

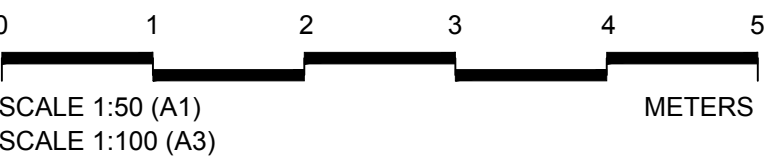
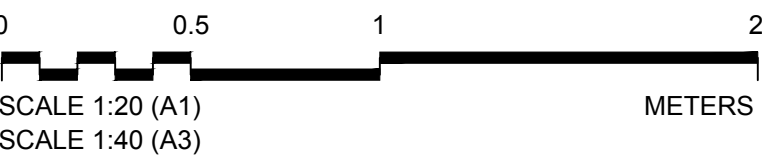
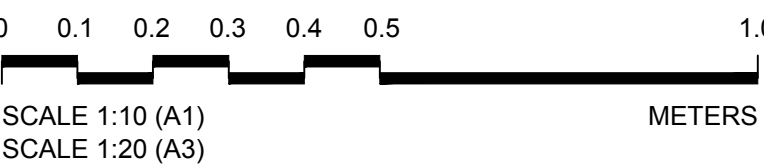
- FOR FOUNDATION WALLS WHERE A DRAIN PIPE WILL BE USED, POSITION LOWER END OF CORE HORIZONTALLY ON GROUND. PEEL BACK FABRIC TO ALLOW DRAINAGE PIPE TO REST ON CORE. TUCK FABRIC AROUND DRAINAGE PIPE AND UNDER CORE. PLACE SMALL AMOUNT OF SELECT BACKFILL MATERIAL ON FABRIC TO HOLD IN PLACE UNTIL BACKFILL IS COMPLETED.
- THE NON-WOVEN FABRIC IS BONDED TO THE CORE ON THE FLANGE SIDE WITH PERMANENT GLUE (WILL NOT ADHERE IF PULLED FROM CORE) AND ON THE FLUSH SIDE AWAY FROM THE FLANGE WITH PRESSURE SENSITIVE GLUE (WILL RE-ADHERE IF PRESSURE IS APPLIED). THE PRESSURE SENSITIVE GLUE PERMITS THE FABRIC TO BE PEELED BACK EASILY TO BE PLACED AROUND PIPES. WOVEN FABRIC IS ATTACHED WITH ALL PRESSURE SENSITIVE GLUE. PERMANENT GLUE CAN BE SOFTENED, IF NECESSARY, WITH A BLOW DRIER. DO NOT USE NEAR OPEN FLAME TO AVOID DAMAGING THE FABRIC.



TYPICAL PILE CAP CORNER
DETAIL (MAIN BARS)
SCALE 1:50

Notes:

- FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D006.
- BACKFILLING OF THE STRUCTURE SHALL NOT COMMENCE UNTIL THE WALL HAS ACHIEVED ITS 28 DAY CYLINDER COMPRESSIVE STRENGTH. BACKFILLING OF THE STRUCTURE SHALL BE CARRIED OUT IN STEPS OF UP TO 300mm THICK.
- ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROOF 30HL OR SIMILAR APPROVED.
- GEO-COMPOSITE DRAINAGE MAT, WEEPHOLES AND PERFORATED PIPES ARE TO BE FITTED AS PER THE SUPPLIERS RECOMMENDATIONS.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 30MPa.
- REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 (fy = 414 MPa).
- COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

George Price Highway Rehabilitation Project

Drawing Title

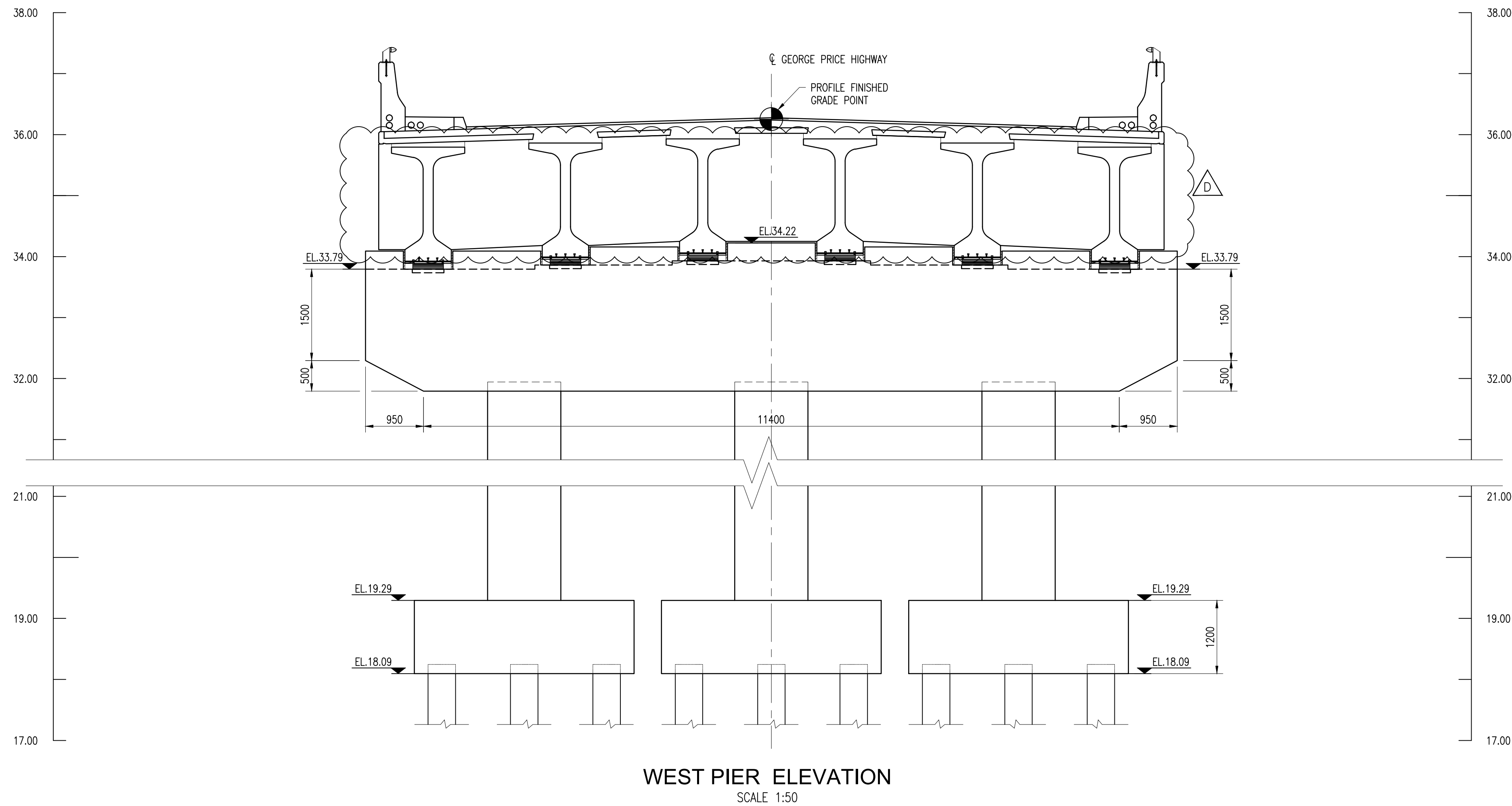
SECTION 1
ROARING CREEK BRIDGE
WEST ABUTMENT OUTLINES &
REINFORCEMENT DETAILS
SHEET 2 OF 2

Drawn by KMJ	Date: JULY 11, 2016
Checked by JSP	Date: JULY 11, 2016
Authorised by MS	Date: JULY 11, 2016

Drawing No. **GPHRP/060/S1/B01/D007** Revision **C**

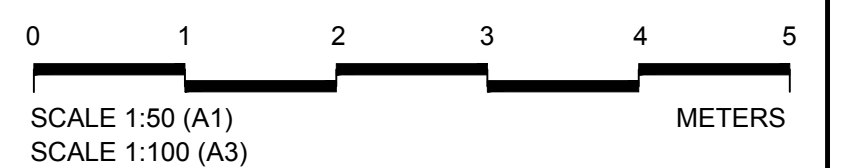
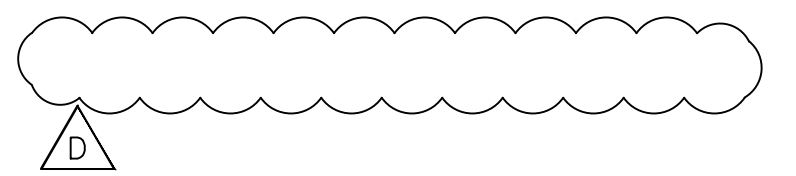
Drawing Scale: As noted on A1

Plot Scale: 1 : 1



Girder #	Elevation
Girder 1	33.78
Girder 2	33.86
Girder 3	33.93
Girder 4	33.93
Girder 5	33.86
Girder 6	33.78

- Notes:
1. FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 3. ALL ELEVATIONS ARE IN METERS AND RELATE TO PROJECT DATUM.
 4. FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D006.



100% FINAL DESIGN

D	KMJ	JSP	MS	19.10.16	DIAPHRAGM ADDED
C	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
B	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
A	KMJ	JSP	MS	12.05.16	60% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel. +1 868 222 7290 Fax +1 868 221 8683
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Project

George Price Highway Rehabilitation
Project

Drawing Title

SECTION 1
ROARING CREEK BRIDGE
WEST PIER OUTLINES &
REINFORCEMENT DETAILS
SHEET 1 OF 2

Drawn by KMJ Date: MAY 12, 2016

Checked by JSP Date: MAY 12, 2016

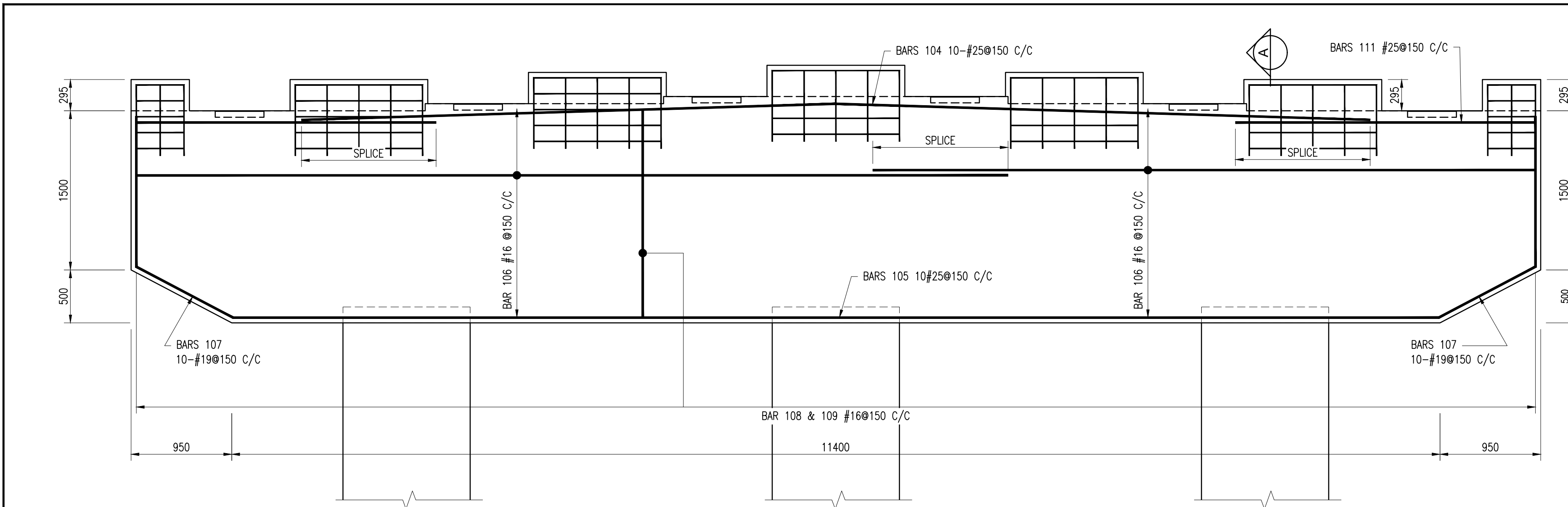
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Drawing No.	Revision
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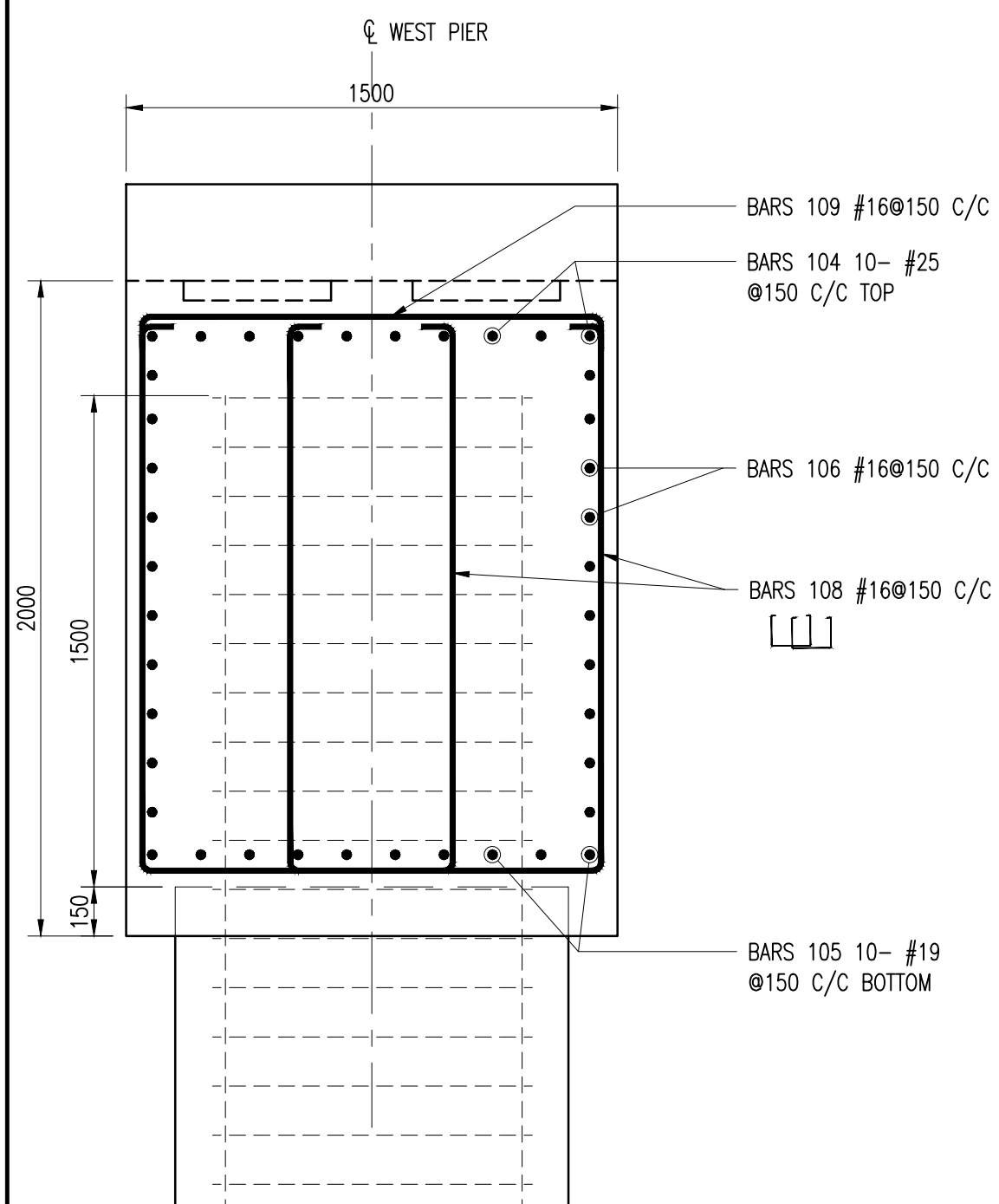
GPHRP/060/S1/B01/D008	D
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Drawing Scale: As noted on A1

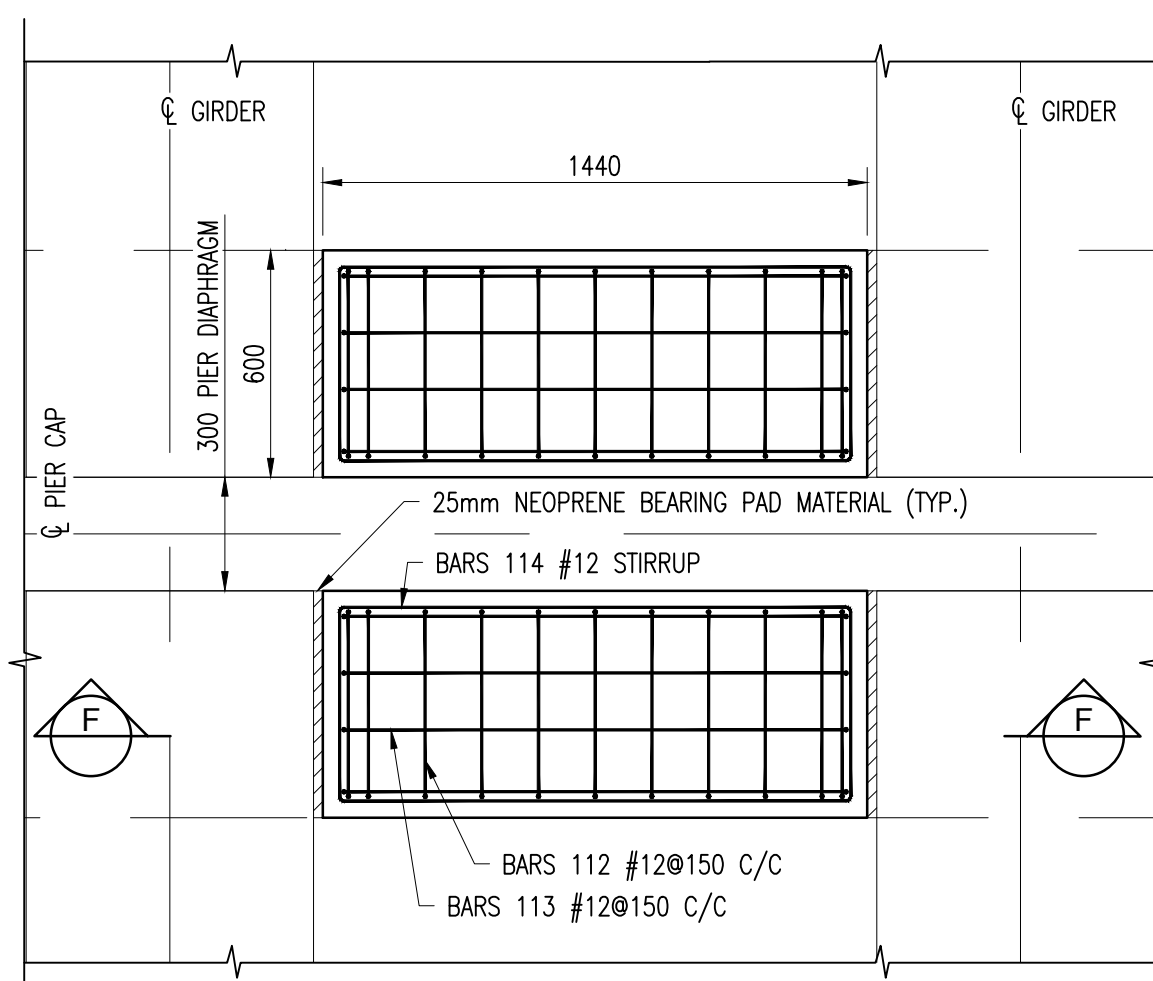
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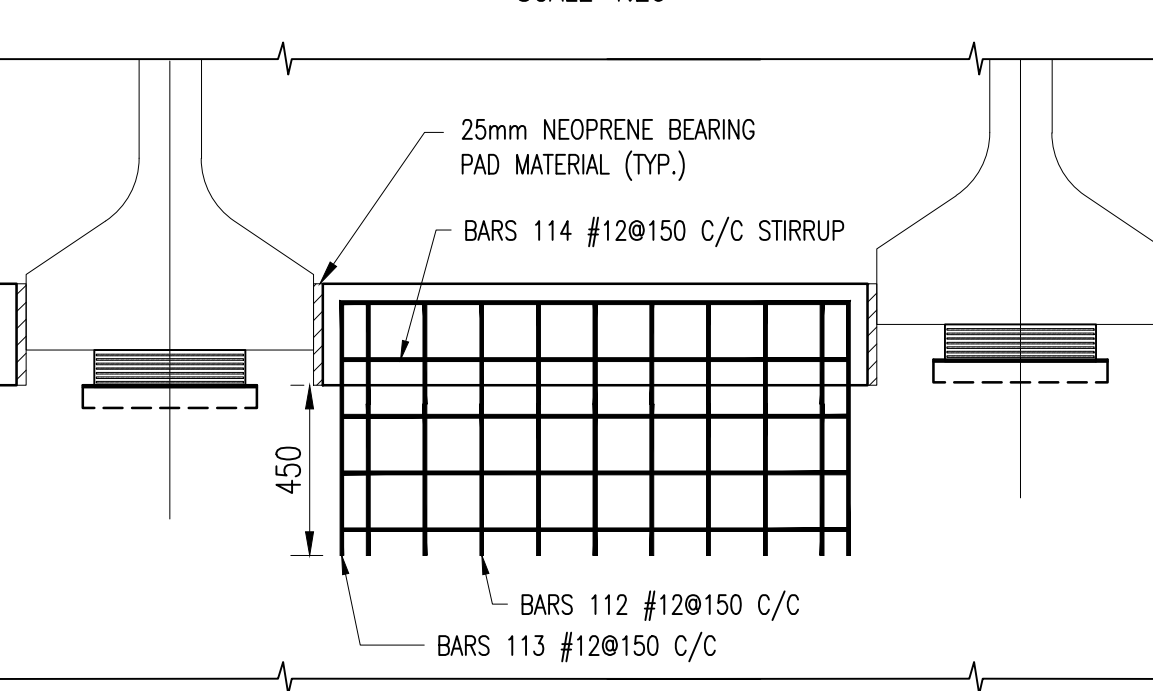
ELEVATION OF WEST PIER CAP
SCALE 1:50
(SHEAR BLOCK / PIER REINFORCEMENT NOT SHOWN FOR CLARITY)



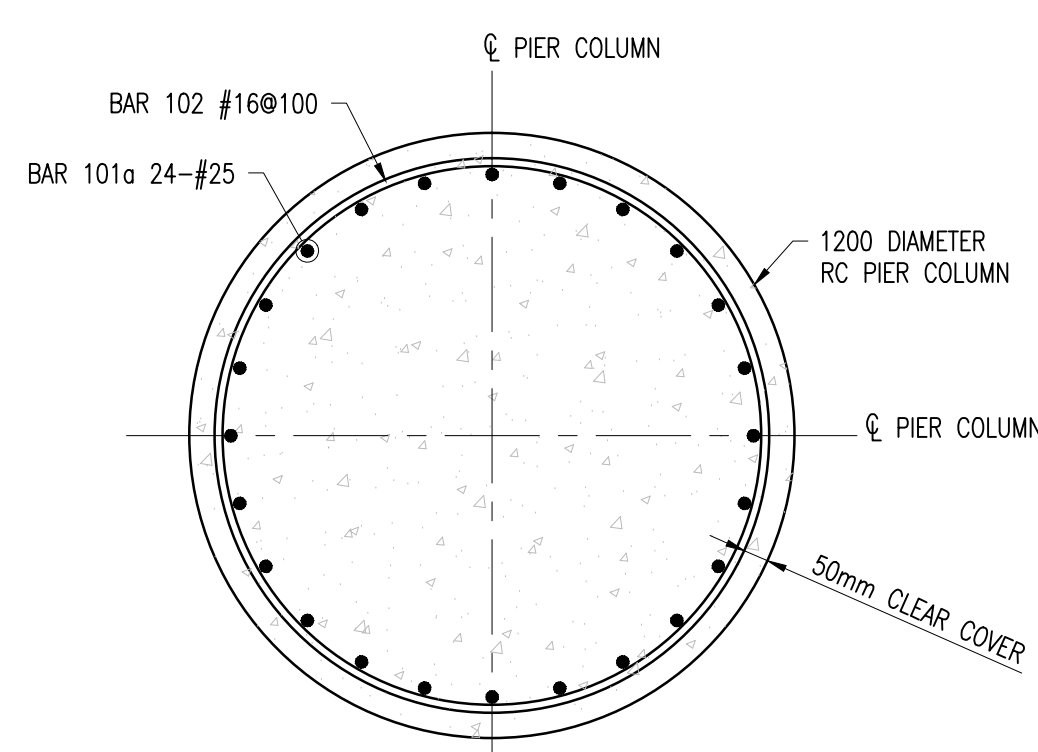
SECTION A-A
SCALE 1:20



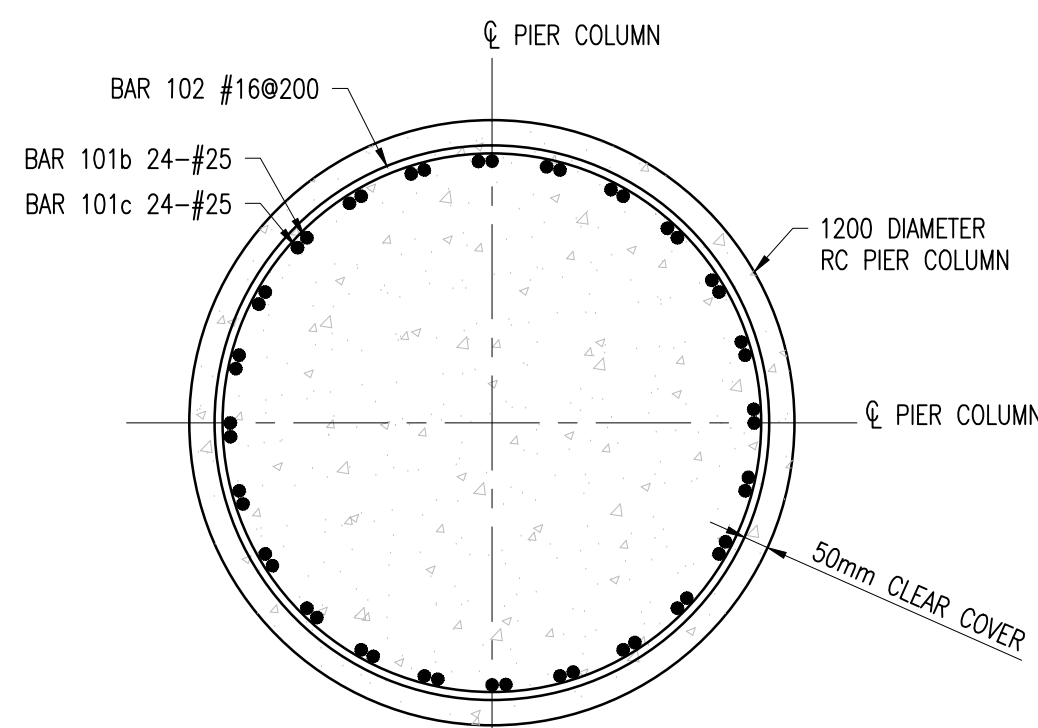
PLAN ON SHEAR BLOCK
SCALE 1:20



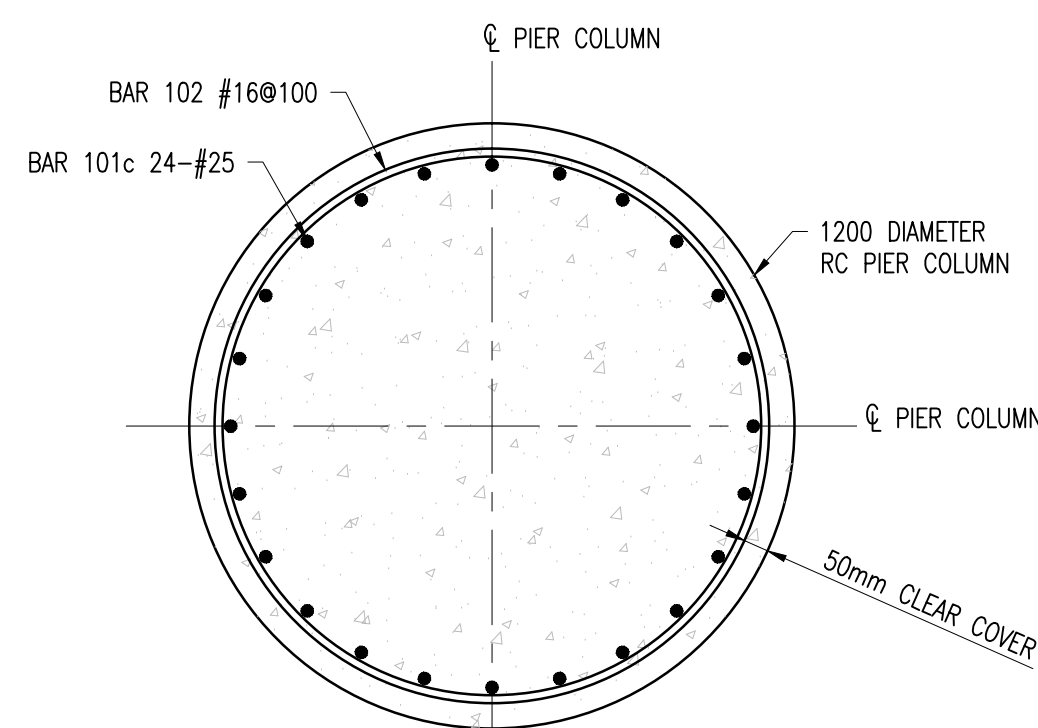
SECTION F-F
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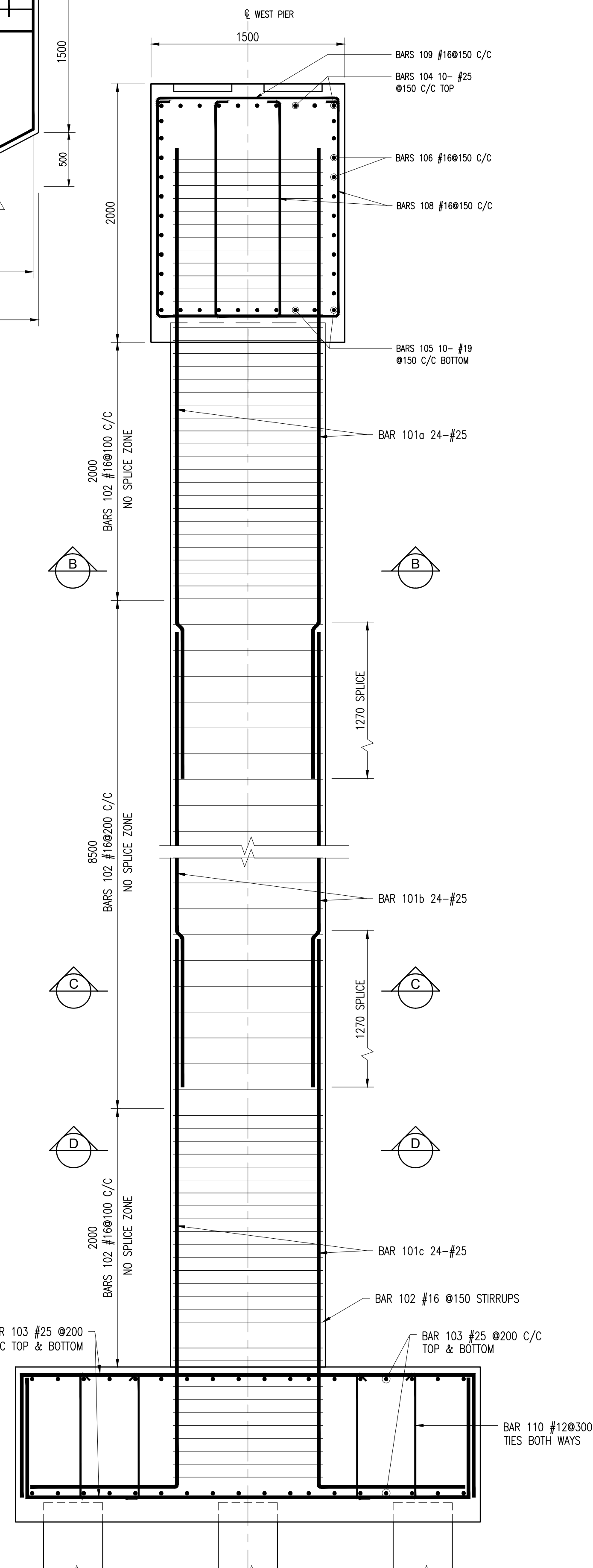
SECTION B-B
SCALE 1:15



SECTION C-C
SCALE 1:15



SECTION D-D
SCALE 1:15



SECTION E-E / D008
SCALE 1:20

REINFORCING SCHEDULE

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "F" [mm]	Dim "I" [mm]	Dim "N" [mm]
101a	25	1			VARIES 4770 - 5870						
101b	25	1			VARIES 6300 - 8500						
101c	25	10			VARIES 4270 - 5370	1270					
102	16	24			720	542					
103	25	11	200		3500	925	925				
104	25	1			VARIES 3000 - 5000						
105	19	1			11350						
106	16	1	150		12000						
107	19	13			1450	790	790			62	28
108	16	5	150		1690	1400	95	95			
109	19	15			1400	95	95			45	90
110	16	15	150		950	95	95			45	90
111	25	10			2830	1270					
112	12	11	150		500	668	668				
113	12	11	150		1340	668	668				
114	12	4	150	200	1340	500					

Notes:

- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D005.
- GEO-COMPOSITE DRAINAGE MAT, WEEPHOLES AND PERFORATED PIPES ARE TO BE FITTED AS PER THE SUPPLIERS RECOMMENDATIONS.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 30MPa FOR PIERS, PIER CAPS AND PILE CAPS.
- REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414 \text{ MPa}$).
- COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.
- CUT BARS SO THAT ADJACENT BARS IN ALL MEMBERS ARE STAGGERED BY AT LEAST THE SPLICE LENGTH SHOWN ON SHEET GPHRP/060/S1/B00/D003, UNLESS OTHERWISE NOTED. SEE TECHNICAL SPECIFICATIONS ARTICLE 554.09 FOR FURTHER SPLICING DETAILS.

0 0.5 1
SCALE 1:15 (A1)
SCALE 1:30 (A3)
METERS

0 0.5 1 2
SCALE 1:20 (A1)
SCALE 1:40 (A3)
METERS

0 1 2 3 4 5
SCALE 1:50 (A1)
SCALE 1:100 (A3)
METERS

100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com

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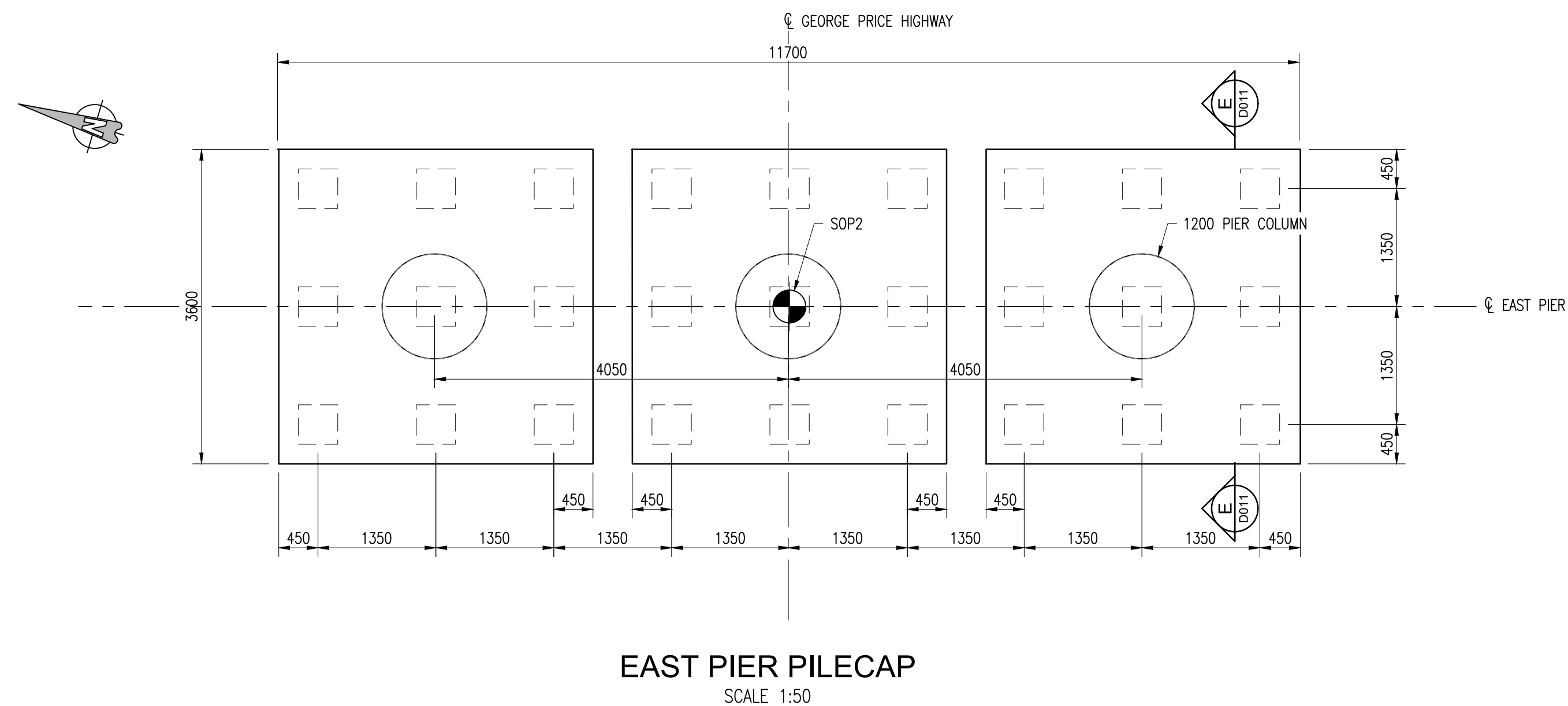
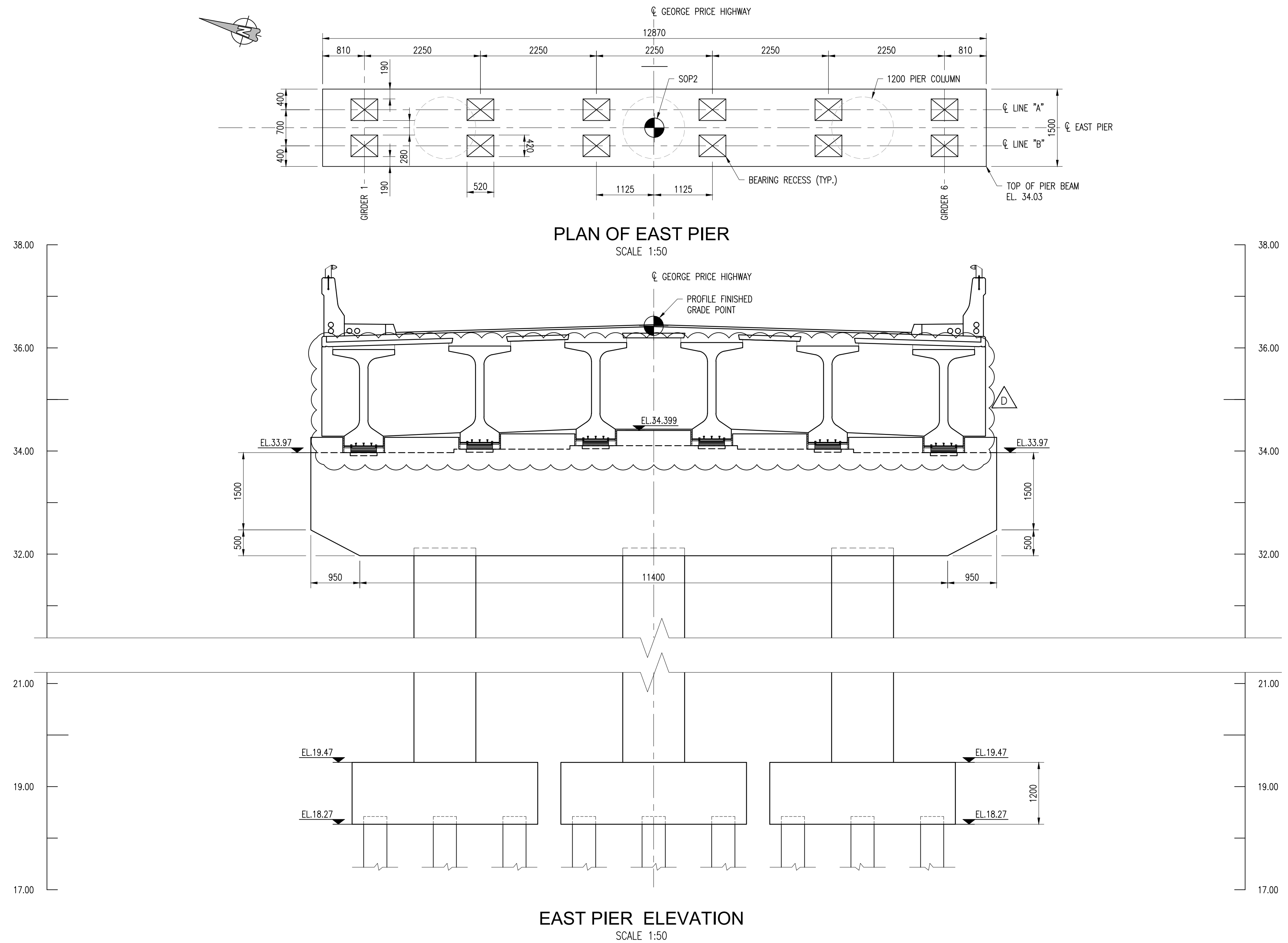
Project
George Price Highway Rehabilitation Project

Drawing Title
SECTION 1
ROARING CREEK BRIDGE
WEST PIER OUTLINES &
REINFORCEMENT DETAILS
SHEET 2 OF 2

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

Drawing No.
GPHRP/060/S1/B01/D009 C

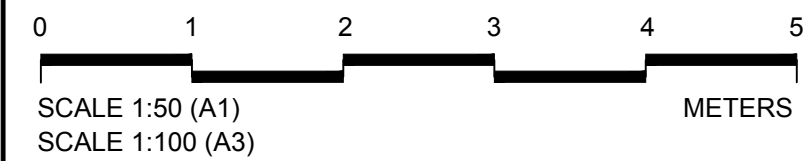
Drawing Scale: As noted on A1
Plot Scale: 1 : 1



BRIDGE SEAT ELEVATION

Girder #	Elevation
Girder 1	33.97
Girder 2	34.04
Girder 3	34.10
Girder 4	34.10
Girder 5	34.04
Girder 6	33.97

- Notes:
- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - ALL ELEVATIONS ARE IN METERS AND RELATE TO PROJECT DATUM.
 - FOR BEARING RECESS DETAIL SEE DRAWING GPHRP/060/S1/B01/D006.



100% FINAL DESIGN

D	KMJ	JSP	MS	05.10.16	19.10.16	DIAPHRAGM ADDED
C	KMJ	JSP	MS	05.10.16	19.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
B	KMJ	JSP	MS	11.07.16	19.10.16	90% DESIGN ISSUE
A	KMJ	JSP	MS	12.06.16	19.10.16	60% DESIGN ISSUE
Revision	By	Checked	Approved	Date		Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

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Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

George Price Highway Rehabilitation Project

Drawing Title

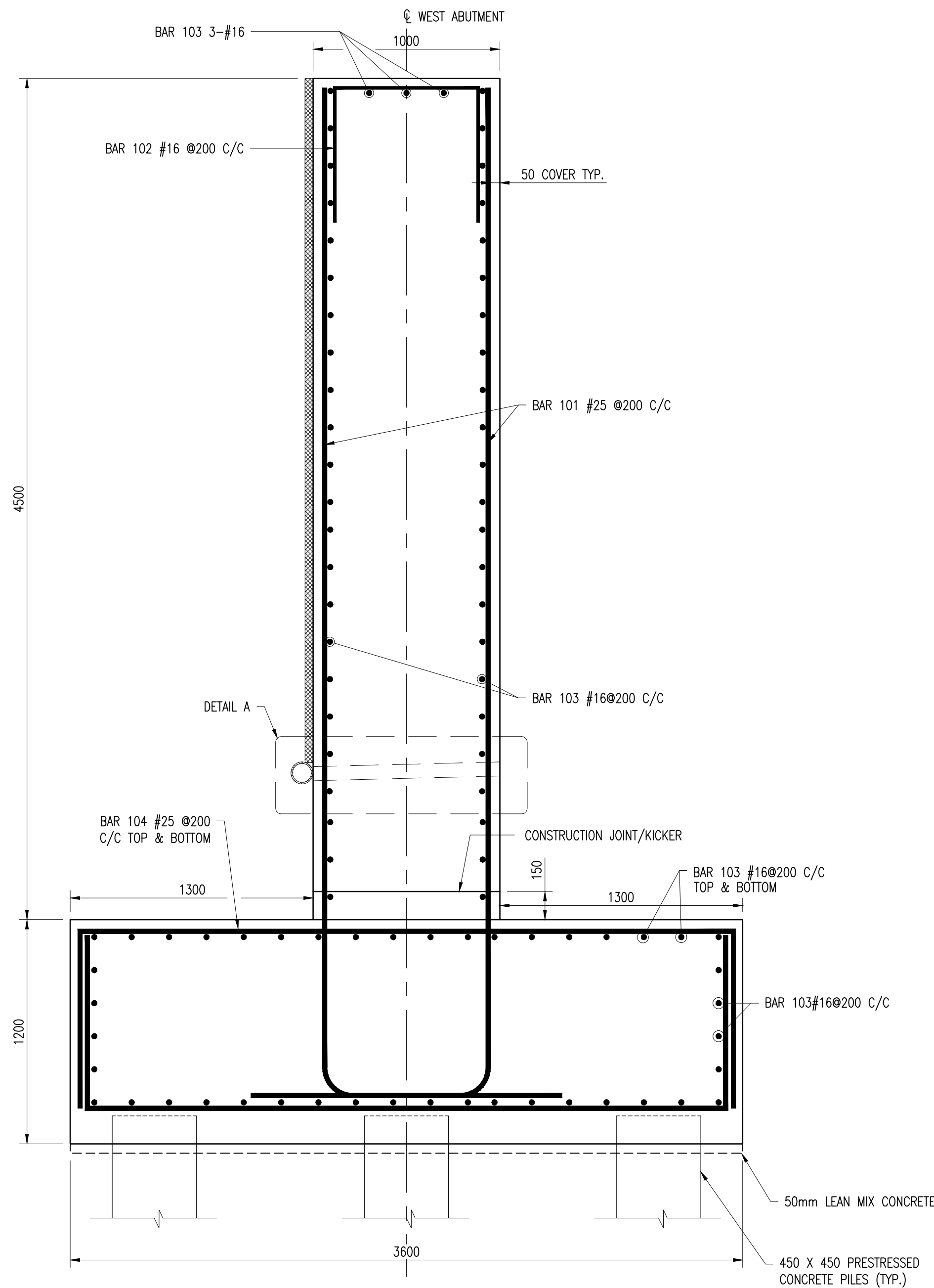
SECTION 1
ROARING CREEK BRIDGE
EAST PIER OUTLINES &
REINFORCEMENT DETAILS
SHEET 1 OF 2

Drawn by KMJ Date: MAY 12, 2016
Checked by JSP Date: MAY 12, 2016
Authorised by MS Date: MAY 12, 2016

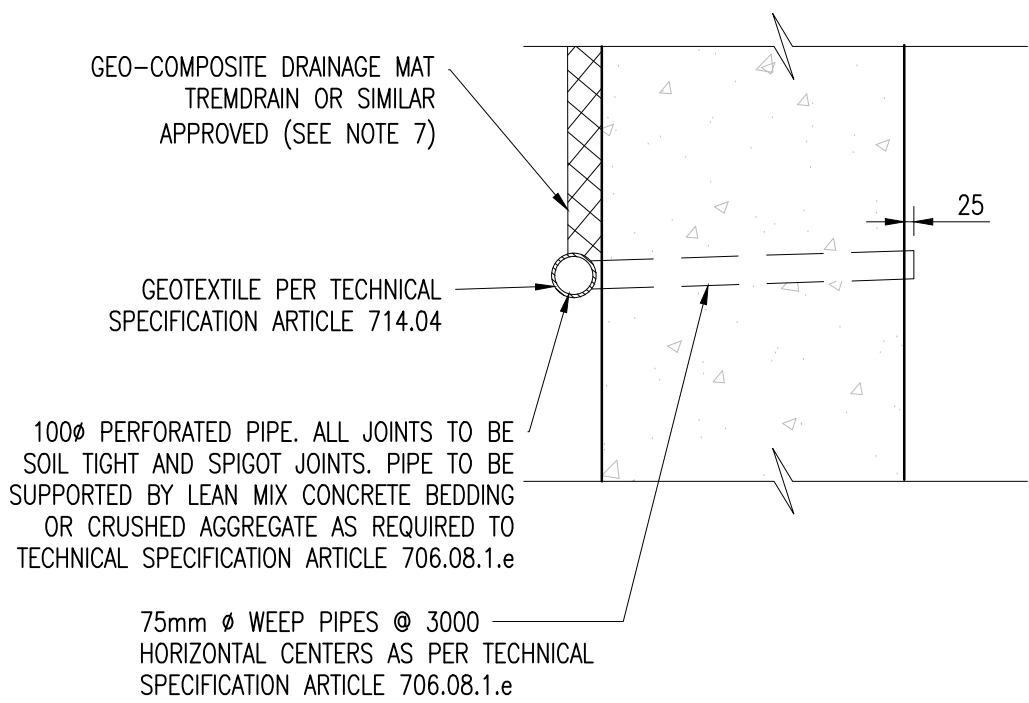
Drawing No. Revision
GPHRP/060/S1/B01/D010 D

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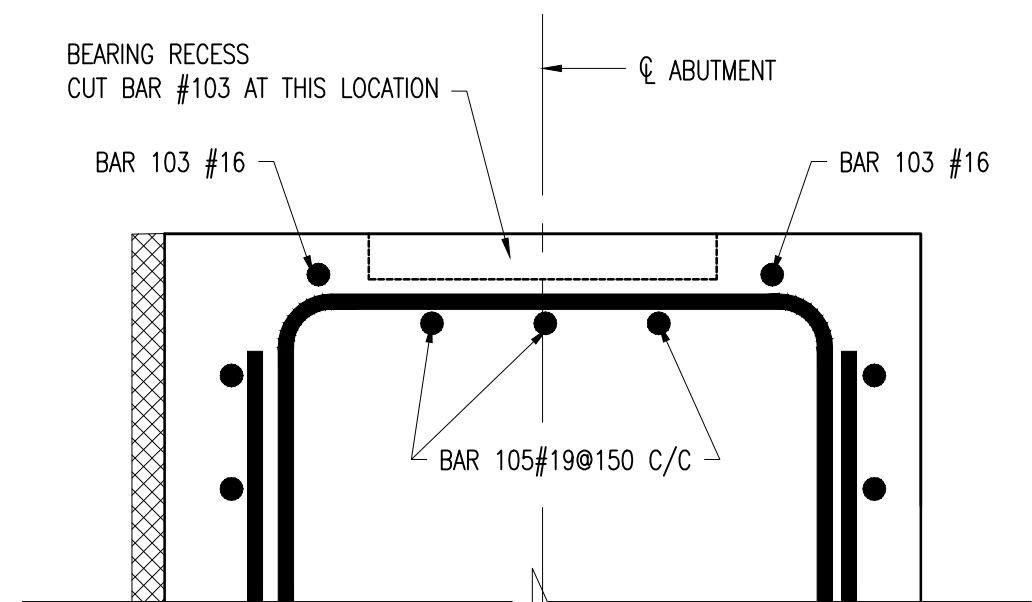
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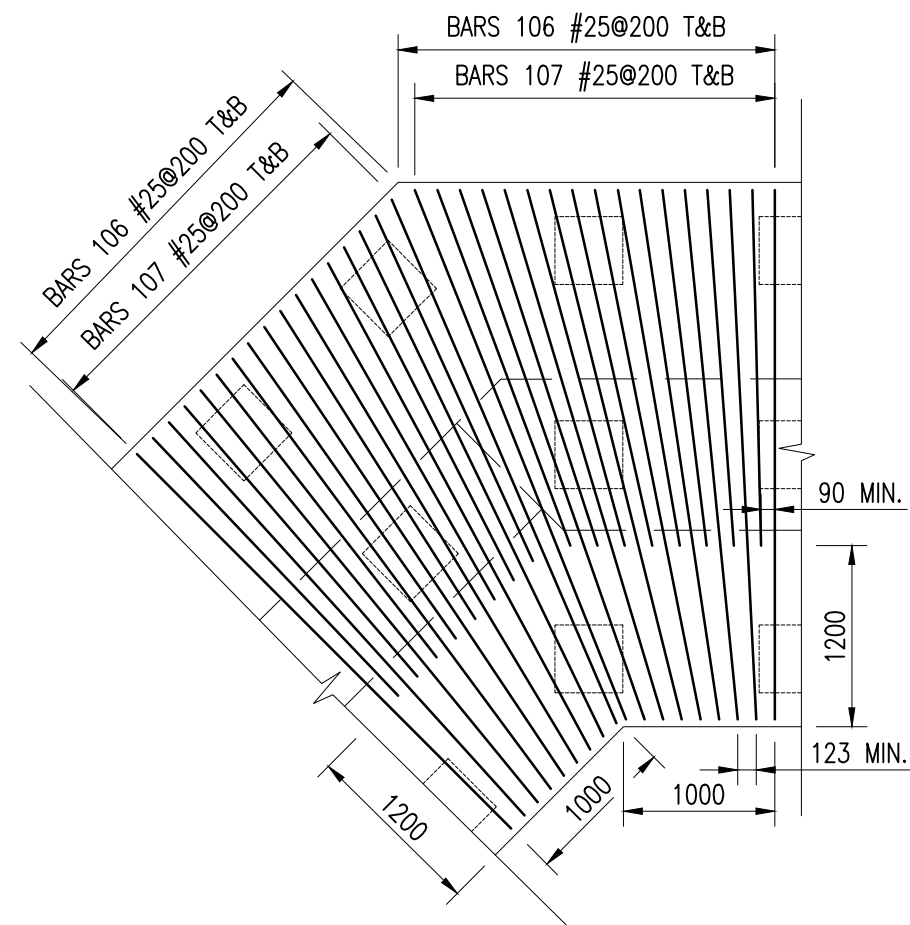
SECTION A-A
SCALE 1:20



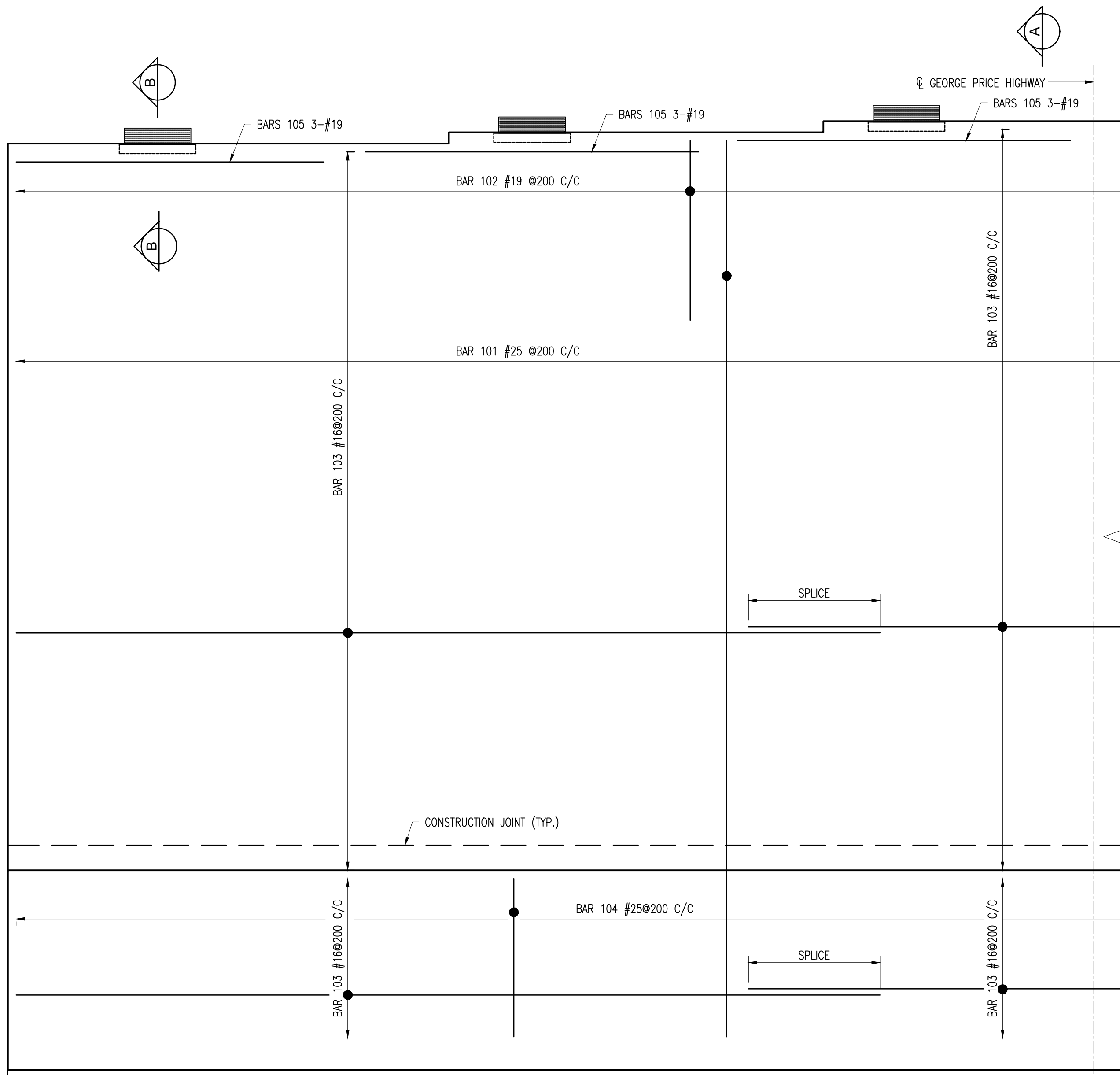
DETAIL A
SCALE 1:20



SECTION B-B AT BEARING LOCATION
SCALE 1:10



TYPICAL PILE CAP CORNER
DETAIL (MAIN BARS)
SCALE 1:50



WEST ABUTMENT WALL
SCALE 1:20
SYMMETRICAL ALONG CL GEORGE PRICE HIGHWAY

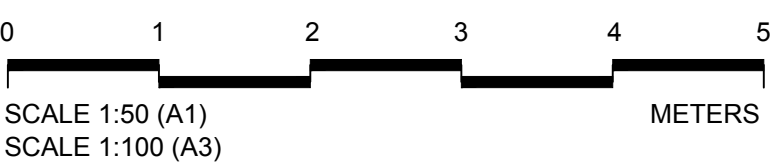
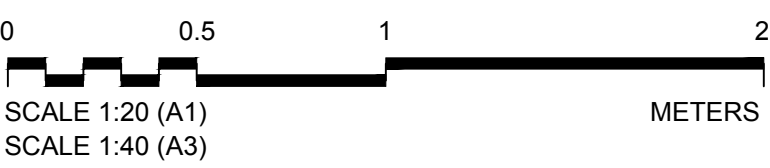
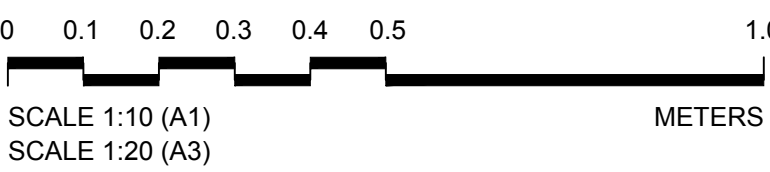
NOTES:

- FOR FOUNDATION WALLS WHERE A DRAIN PIPE WILL BE USED, POSITION LOWER END OF CORE HORIZONTALLY ON GROUND. PEEL BACK FABRIC TO ALLOW DRAINAGE PIPE TO REST ON CORE. TUCK FABRIC AROUND DRAINAGE PIPE AND UNDER CORE. PLACE SMALL AMOUNT OF SELECT BACKFILL MATERIAL ON FABRIC TO HOLD IN PLACE UNTIL BACKFILL IS COMPLETED.
- THE NON-WOVEN FABRIC IS BONDED TO THE CORE ON THE FLANGE SIDE WITH PERMANENT GLUE (WILL NOT ADHERE IF PULLED FROM CORE) AND ON THE FLUSH SIDE AWAY FROM THE FLANGE WITH PRESSURE SENSITIVE GLUE (WILL RE-ADHERE IF PRESSURE IS APPLIED). THE PRESSURE SENSITIVE GLUE PERMITS THE FABRIC TO BE PEELED BACK EASILY TO BE PLACED AROUND PILES. WOVEN FABRIC IS ATTACHED WITH ALL PRESSURE SENSITIVE GLUE. PERMANENT GLUE CAN BE SOFTENED, IF NECESSARY, WITH A BLOW DRIER. DO NOT USE NEAR OPEN FLAME TO AVOID DAMAGING THE FABRIC.

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "I" [mm]	Dim "N" [mm]
101	25	10	200		VARIES 5315 - 5450	1270				
102	16	11	200		810	790	790			
103	16	1	200		12000					
104	25	11	200		3500	925	925			
105	19	1			2000					
106	25	10			VARIES	925	925			
107	25	1	150		VARIES	925				

Notes:

- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D006.
- BACKFILLING OF THE STRUCTURE SHALL NOT COMMENCE UNTIL THE WALL HAS ACHIEVED ITS 28 DAY CYLINDER COMPRESSIVE STRENGTH. BACKFILLING OF THE STRUCTURE SHALL BE CARRIED OUT IN STEPS OF UP TO 300mm THICK.
- ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROOF 30HL OR SIMILAR APPROVED.
- GEO-COMPOSITE DRAINAGE MAT, WEEPHOLES AND PERFORATED PIPES ARE TO BE FITTED AS PER THE SUPPLIERS RECOMMENDATIONS.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 30MPa.
- REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414 \text{ MPa}$).
- COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.



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C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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www.ch2m.com

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Project

George Price Highway Rehabilitation
Project

Drawing Title

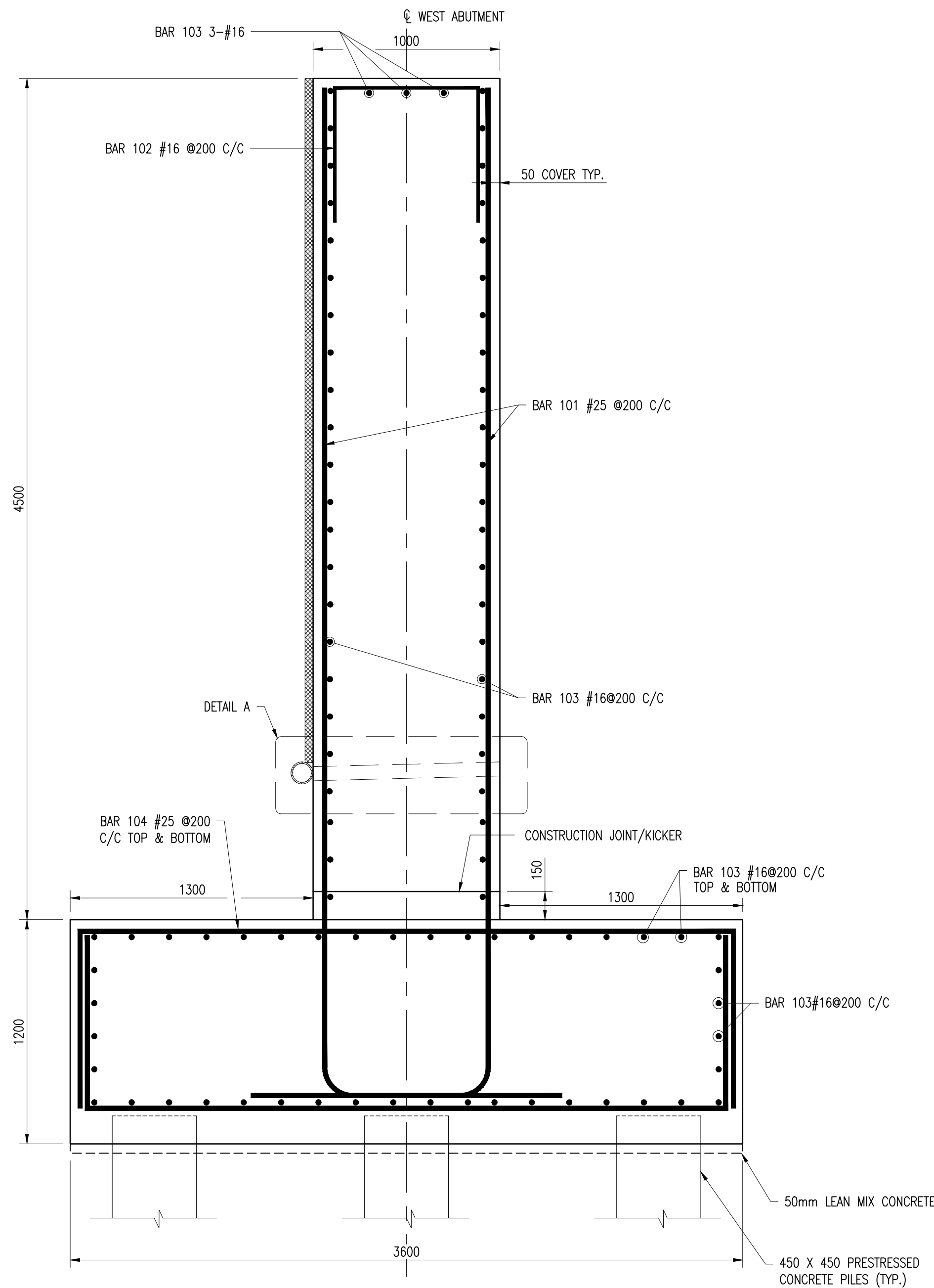
SECTION 1
ROARING CREEK BRIDGE
EAST ABUTMENT OUTLINES &
REINFORCEMENT DETAILS
SHEET 2 OF 2

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

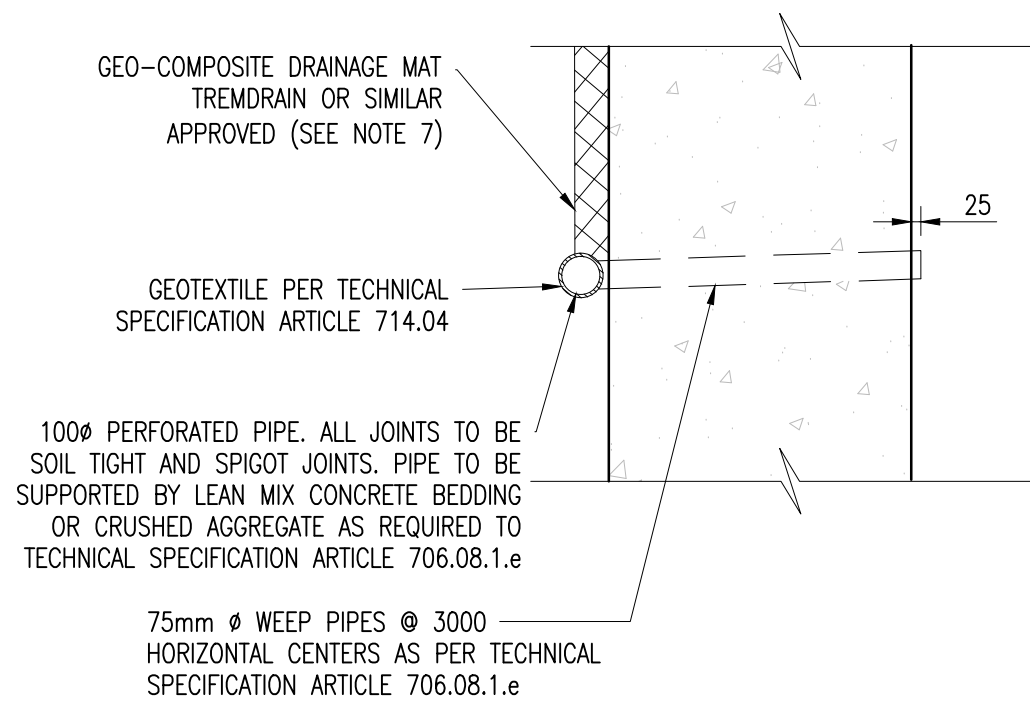
Drawing No. GPHRP/060/S1/B01/D013 Revision C

Drawing Scale: As noted on A1

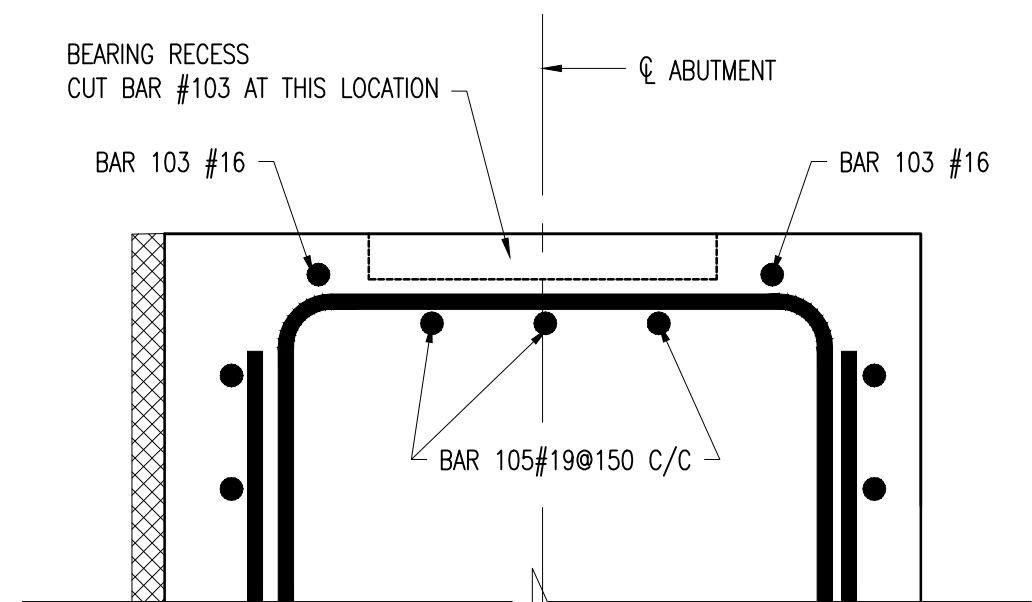
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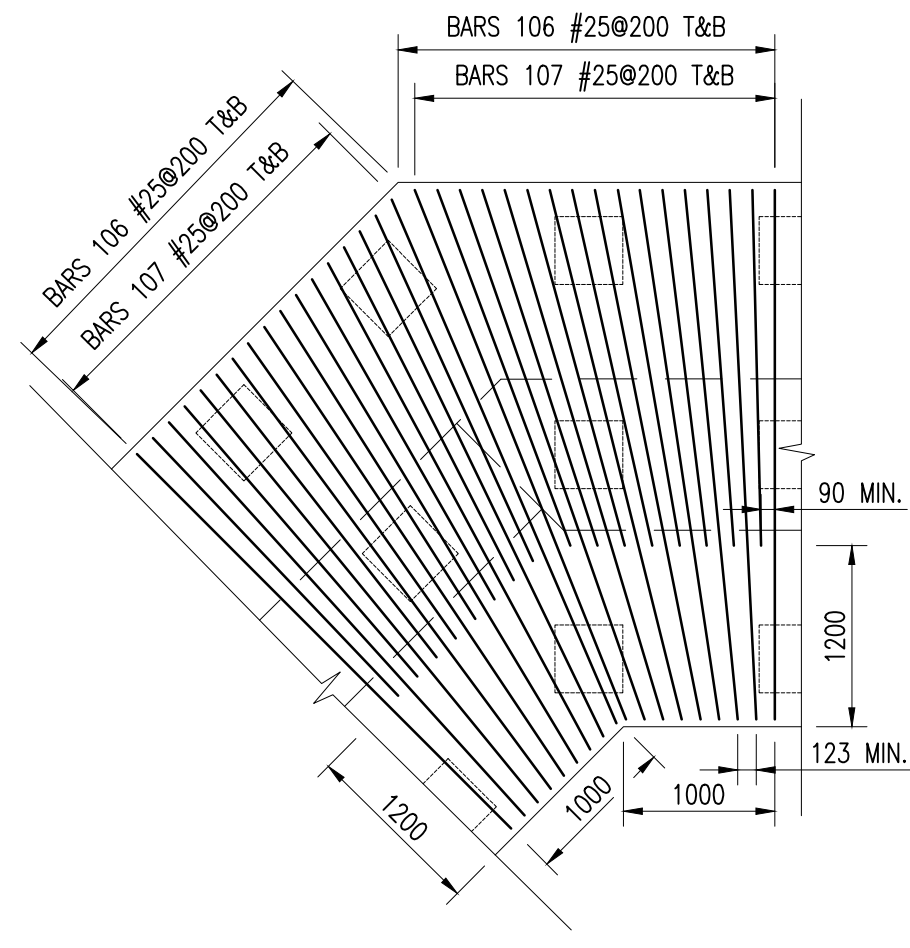
SECTION A-A
SCALE 1:20



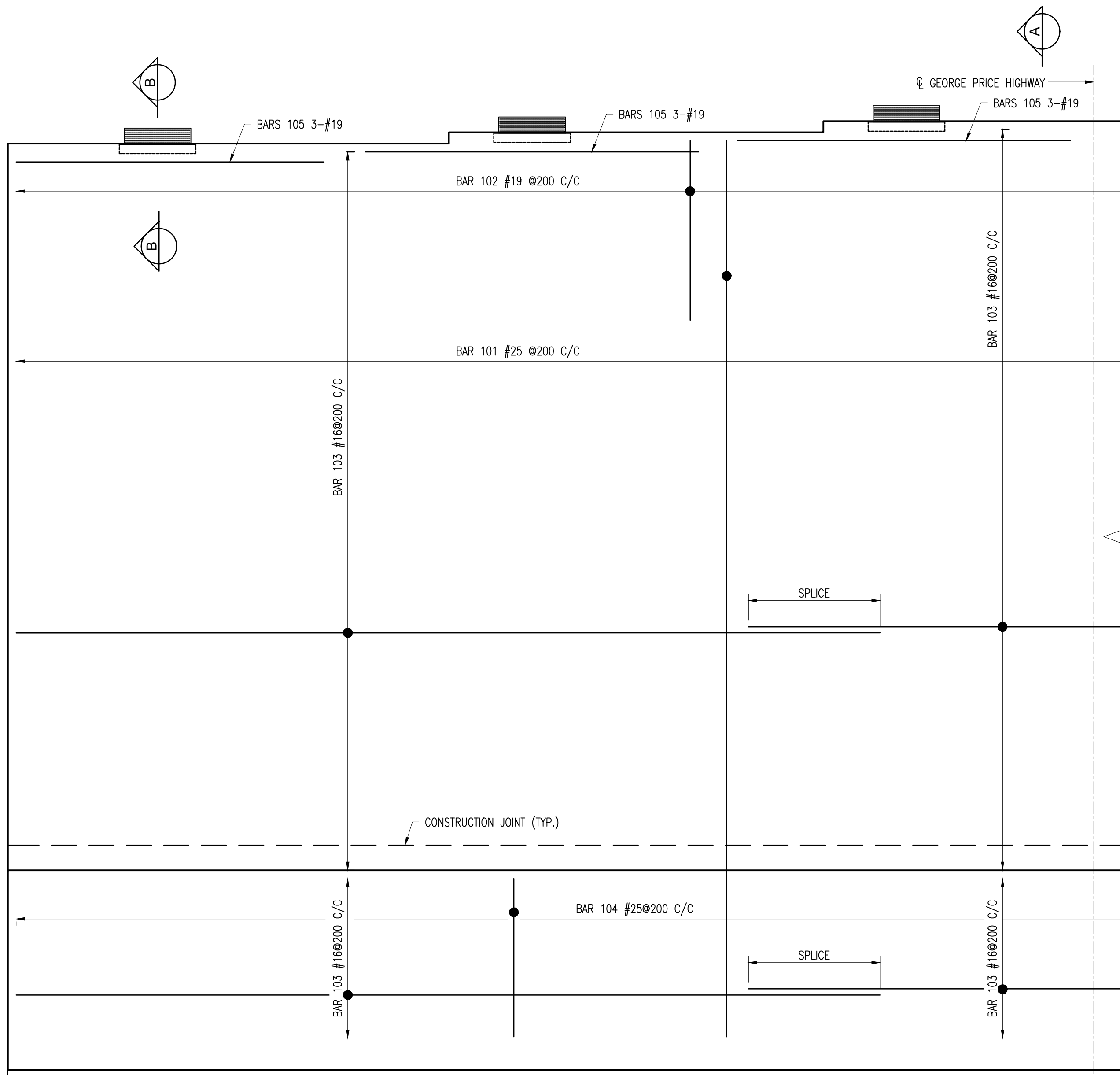
DETAIL A
SCALE 1:20



SECTION B-B AT BEARING LOCATION
SCALE 1:10



TYPICAL PILE CAP CORNER
DETAIL (MAIN BARS)
SCALE 1:50



WEST ABUTMENT WALL
SCALE 1:20
SYMMETRICAL ALONG CL GEORGE PRICE HIGHWAY

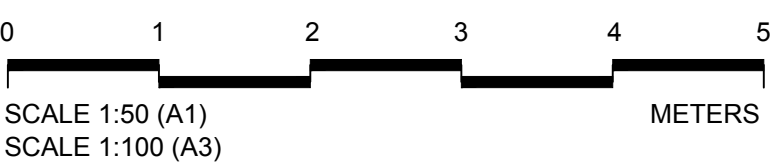
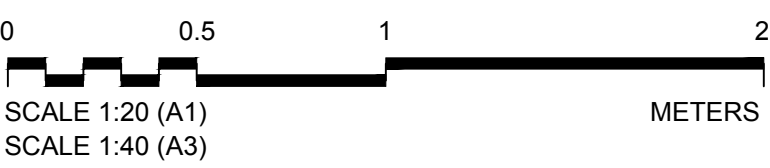
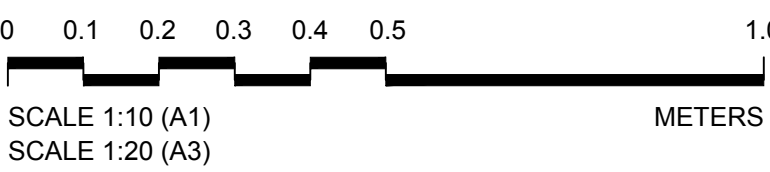
NOTES:

- FOR FOUNDATION WALLS WHERE A DRAIN PIPE WILL BE USED, POSITION LOWER END OF CORE HORIZONTALLY ON GROUND. PEEL BACK FABRIC TO ALLOW DRAINAGE PIPE TO REST ON CORE. TUCK FABRIC AROUND DRAINAGE PIPE AND UNDER CORE. PLACE SMALL AMOUNT OF SELECT BACKFILL MATERIAL ON FABRIC TO HOLD IN PLACE UNTIL BACKFILL IS COMPLETED.
- THE NON-WOVEN FABRIC IS BONDED TO THE CORE ON THE FLANGE SIDE WITH PERMANENT GLUE (WILL NOT ADHERE IF PULLED FROM CORE) AND ON THE FLUSH SIDE AWAY FROM THE FLANGE WITH PRESSURE SENSITIVE GLUE (WILL RE-ADHERE IF PRESSURE IS APPLIED). THE PRESSURE SENSITIVE GLUE PERMITS THE FABRIC TO BE PEELED BACK EASILY TO BE PLACED AROUND PILES. WOVEN FABRIC IS ATTACHED WITH ALL PRESSURE SENSITIVE GLUE. PERMANENT GLUE CAN BE SOFTENED, IF NECESSARY, WITH A BLOW DRIER. DO NOT USE NEAR OPEN FLAME TO AVOID DAMAGING THE FABRIC.

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "I" [mm]	Dim "N" [mm]
101	25	10	200		VARIES 5315 - 5450	1270				
102	16	11	200		810	790	790			
103	16	1	200		12000					
104	25	11	200		3500	925	925			
105	19	1			2000					
106	25	10			VARIES	925	925			
107	25	1	150		VARIES	925				

Notes:

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- FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D006.
- BACKFILLING OF THE STRUCTURE SHALL NOT COMMENCE UNTIL THE WALL HAS ACHIEVED ITS 28 DAY CYLINDER COMPRESSIVE STRENGTH. BACKFILLING OF THE STRUCTURE SHALL BE CARRIED OUT IN STEPS OF UP TO 300mm THICK.
- ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROOF 30HL OR SIMILAR APPROVED.
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- REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414 \text{ MPa}$).
- COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Belize, C.A.

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www.ch2m.com

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Project

George Price Highway Rehabilitation
Project

Drawing Title

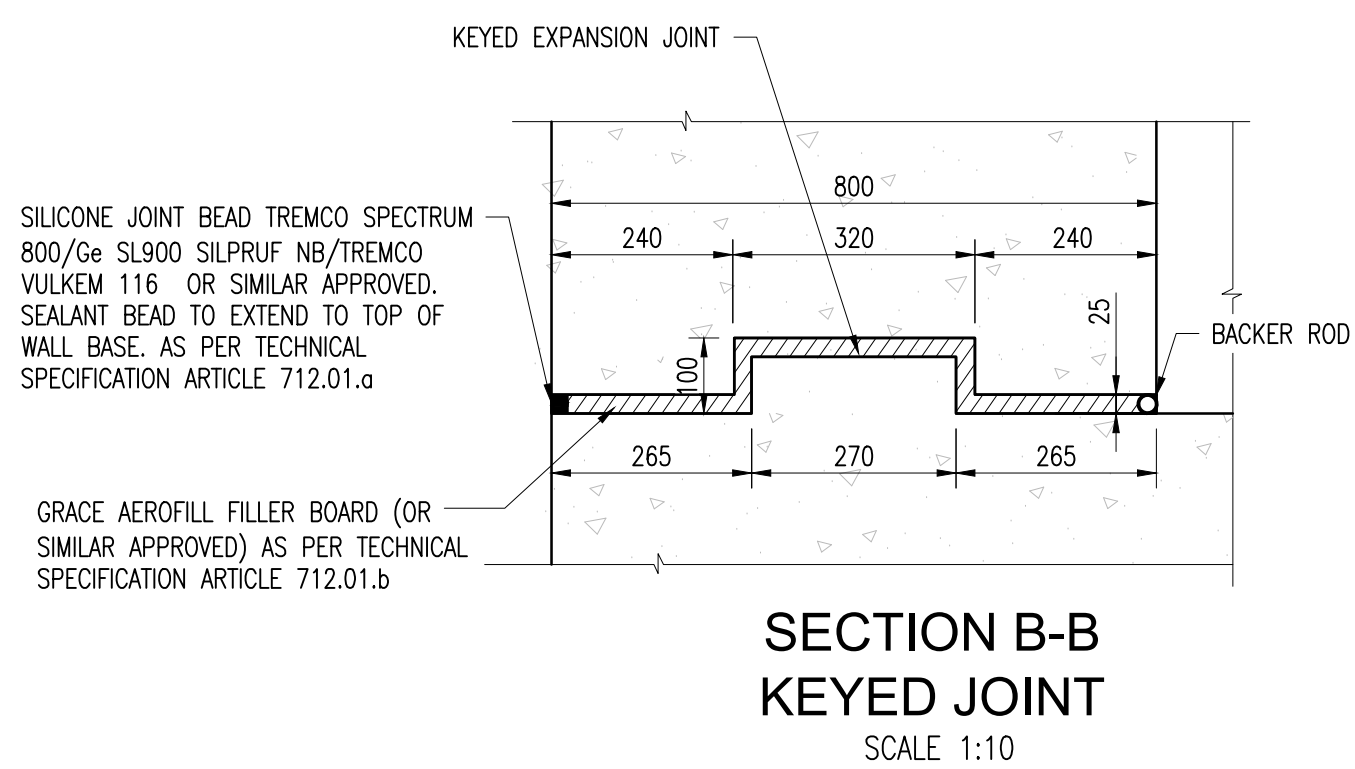
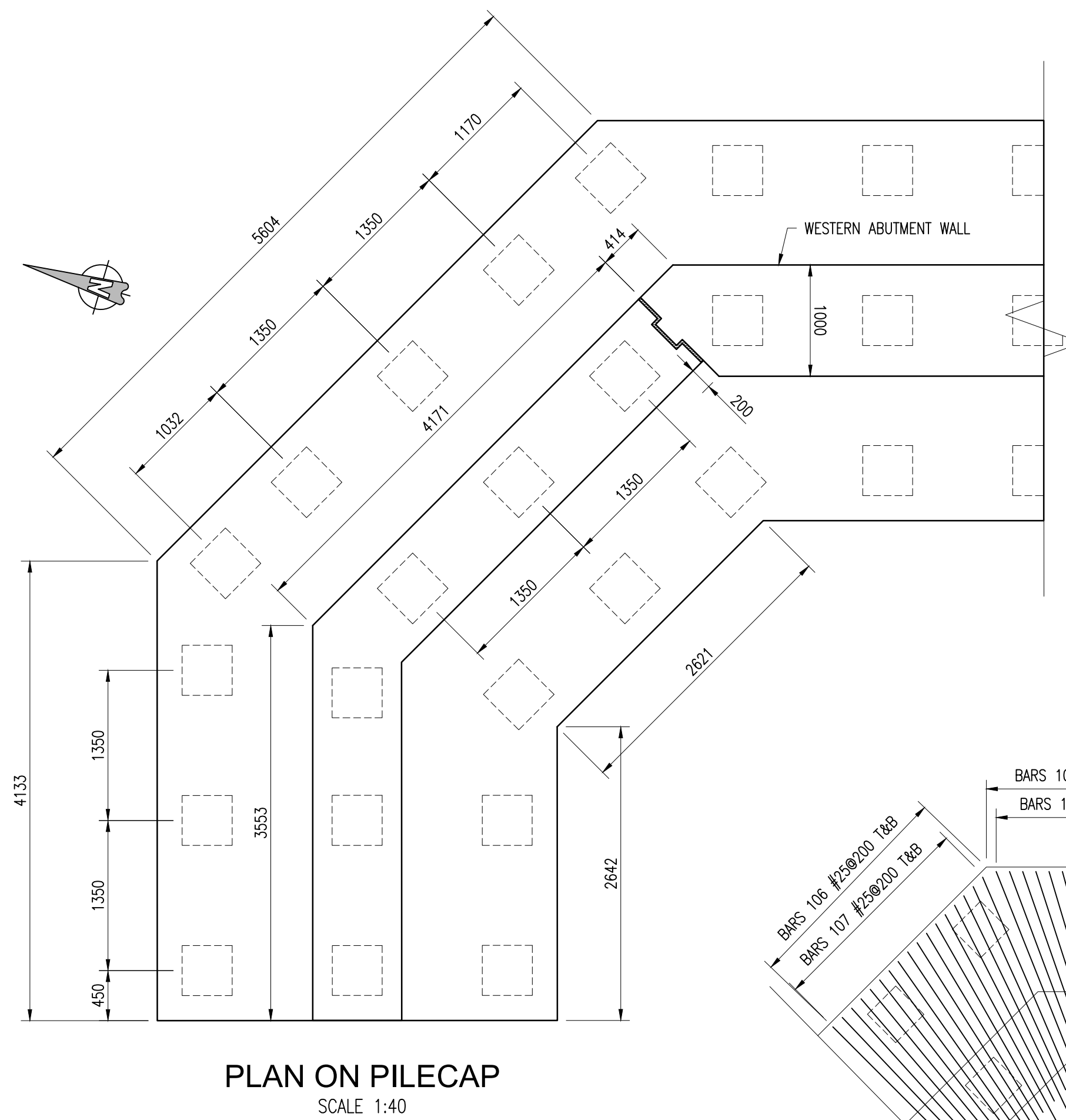
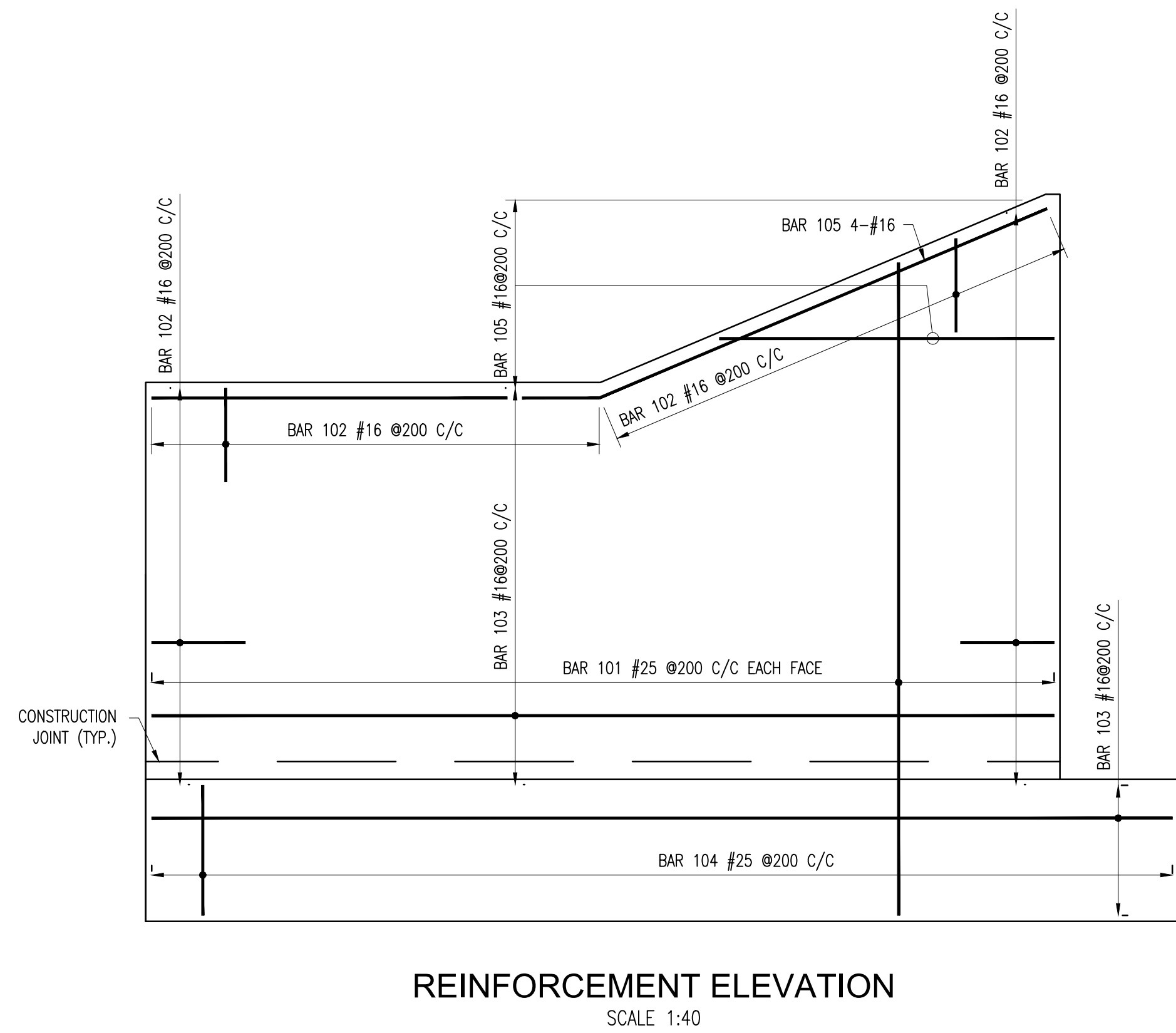
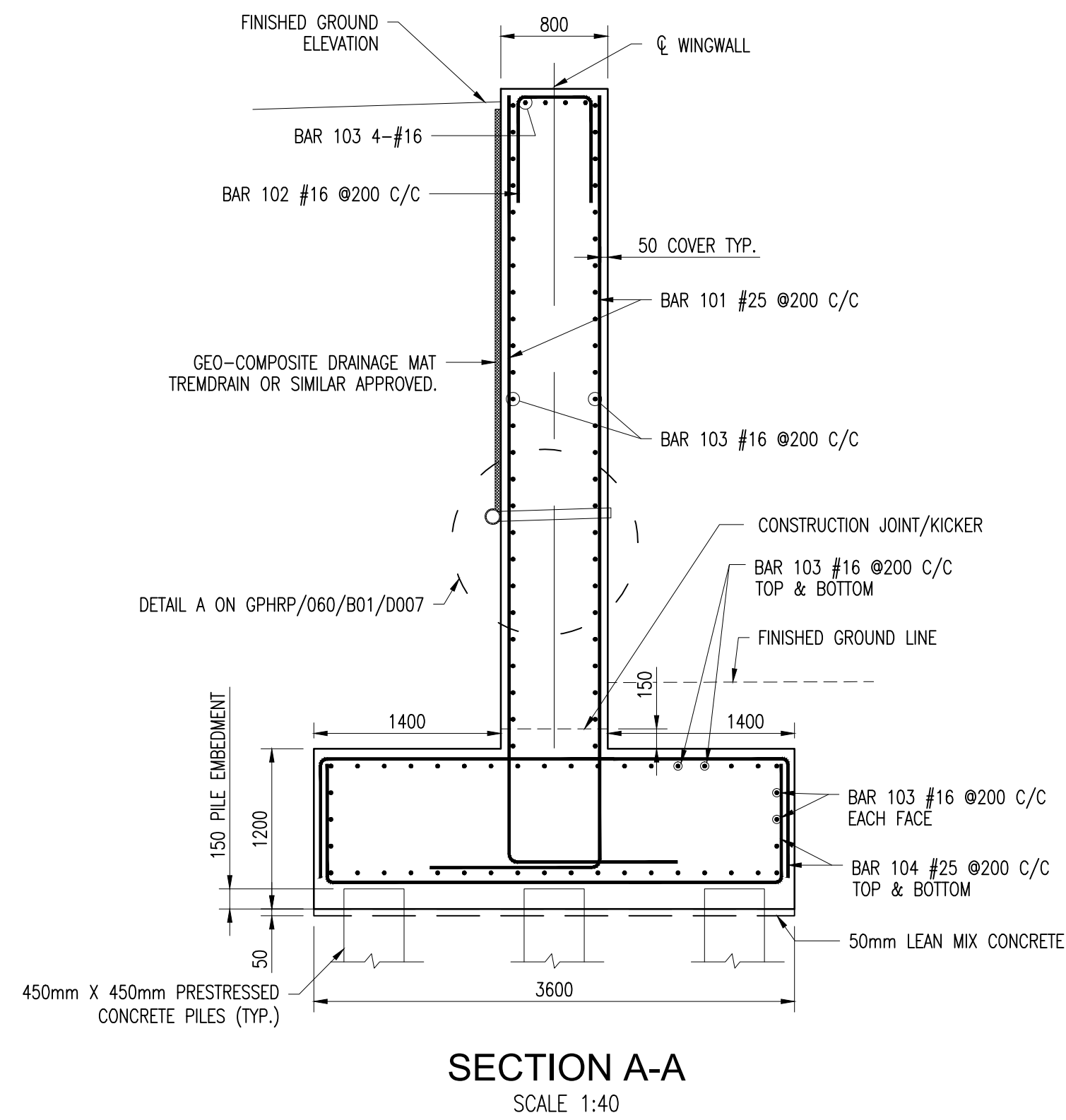
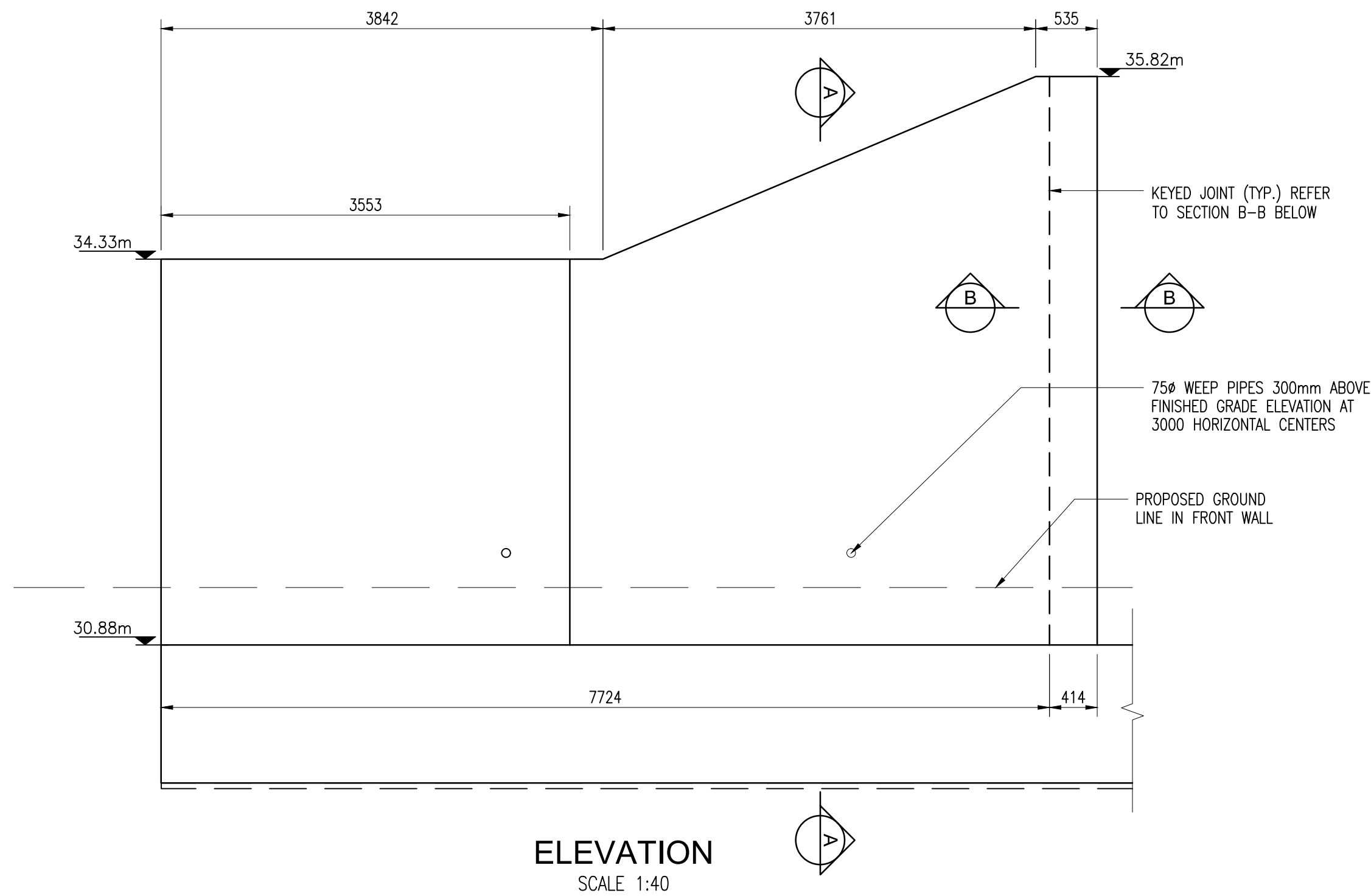
SECTION 1
ROARING CREEK BRIDGE
EAST ABUTMENT OUTLINES &
REINFORCEMENT DETAILS
SHEET 2 OF 2

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

Drawing No. GPHRP/060/S1/B01/D013 Revision C

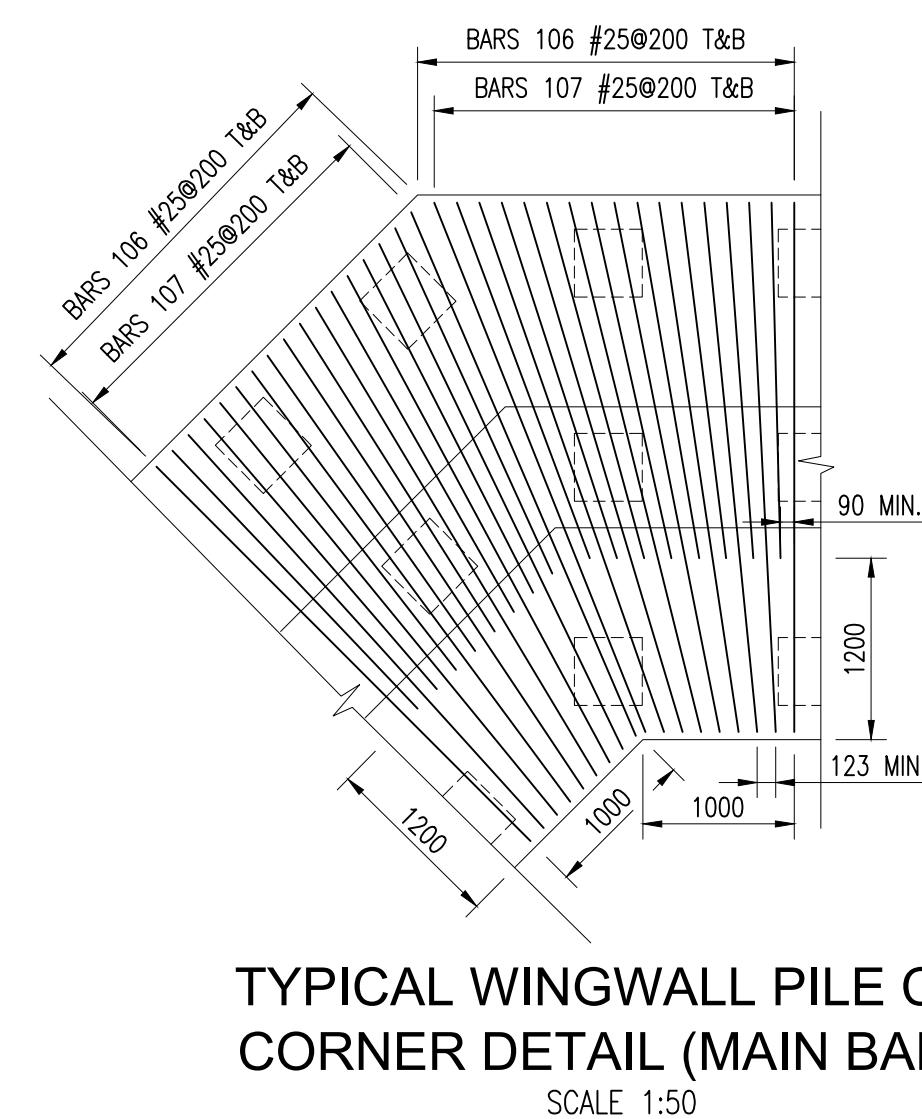
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Plot Scale: 1 : 1



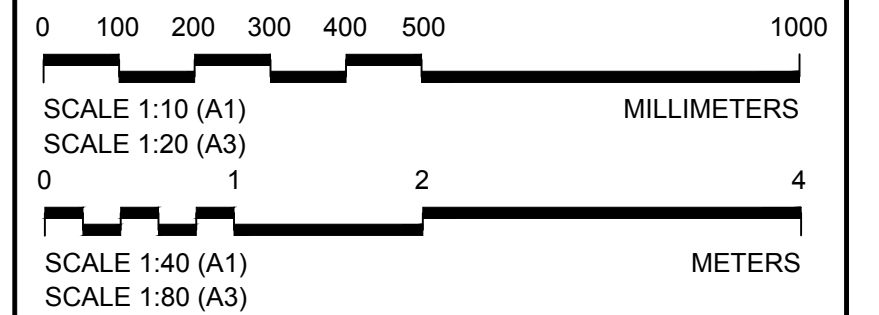
REINFORCING SCHEDULE

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "I" [°]	Dim "N" [°]
101	25	10	200		VARIES 4300-6045	1270				
102	16	11	200		700	720	720			
103	16	12	200		VARIES 2660-4110	VARIES 2640-5580			45	
104	25	11	200		3500	925	925			
105	16	1	200		VARIES 200-4105					
106	25	10			VARIES	925	925			
107	25	1	150		VARIES	925				



Notes:

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- ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROOF 30HL OR SIMILAR APPROVED.
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- COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.



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B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
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Revision	By	Checked	Approved	Date	Description

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Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com

ch2m

Project

George Price Highway
Rehabilitation Project

Drawing Title

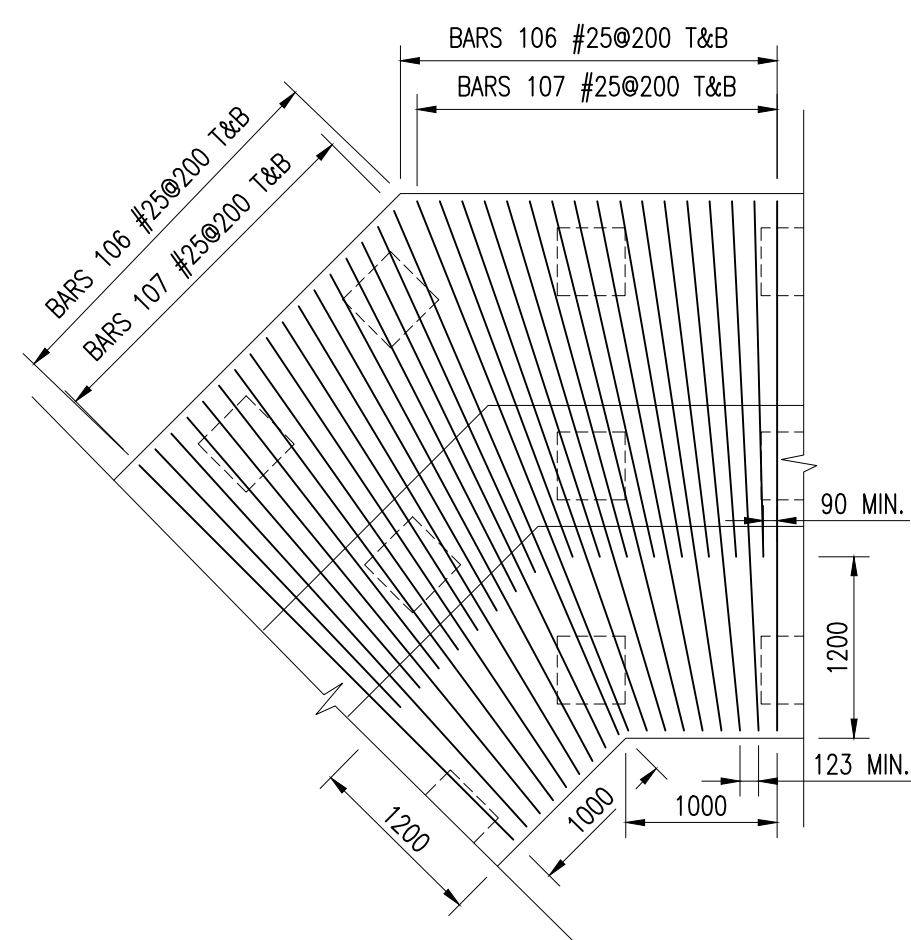
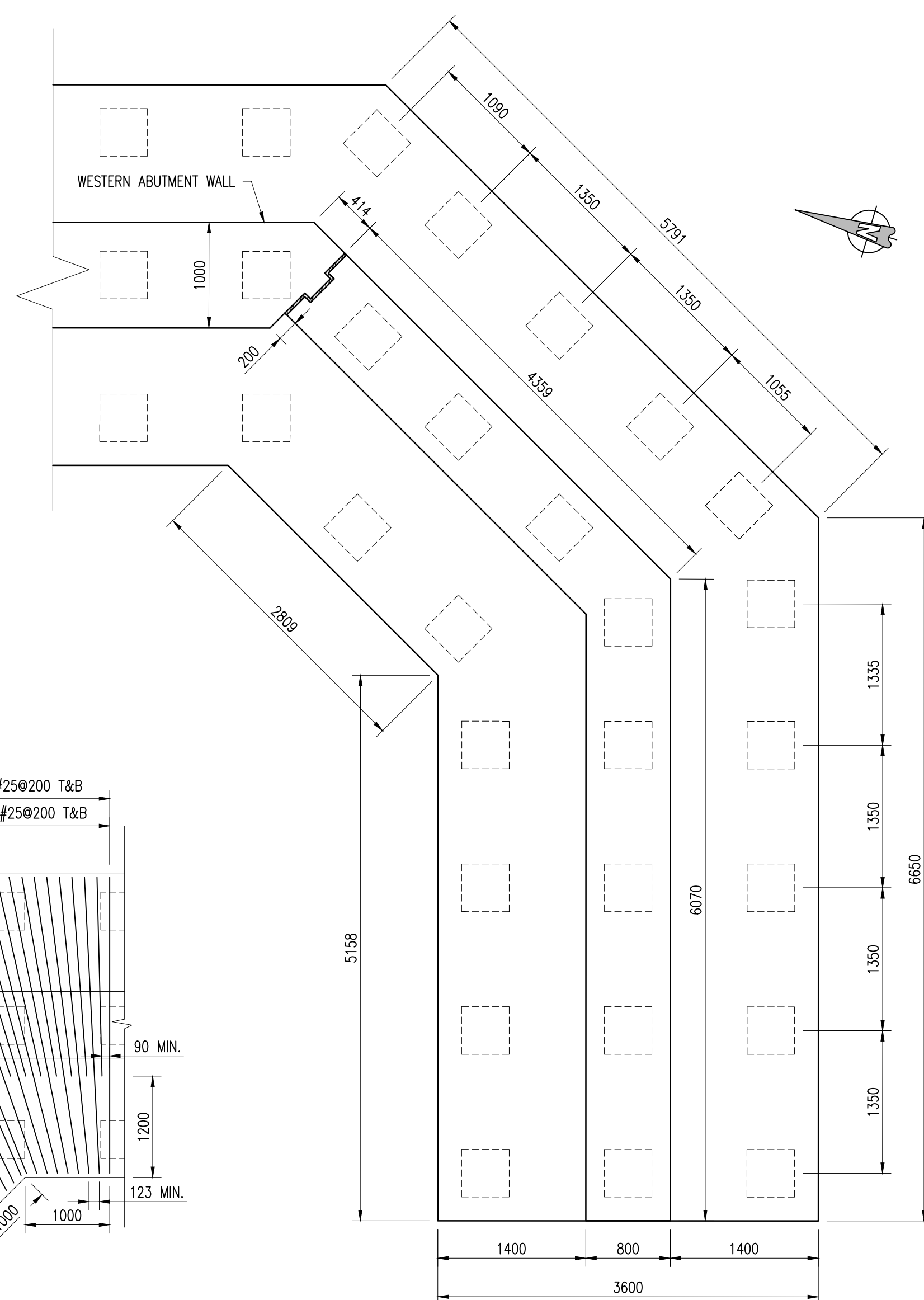
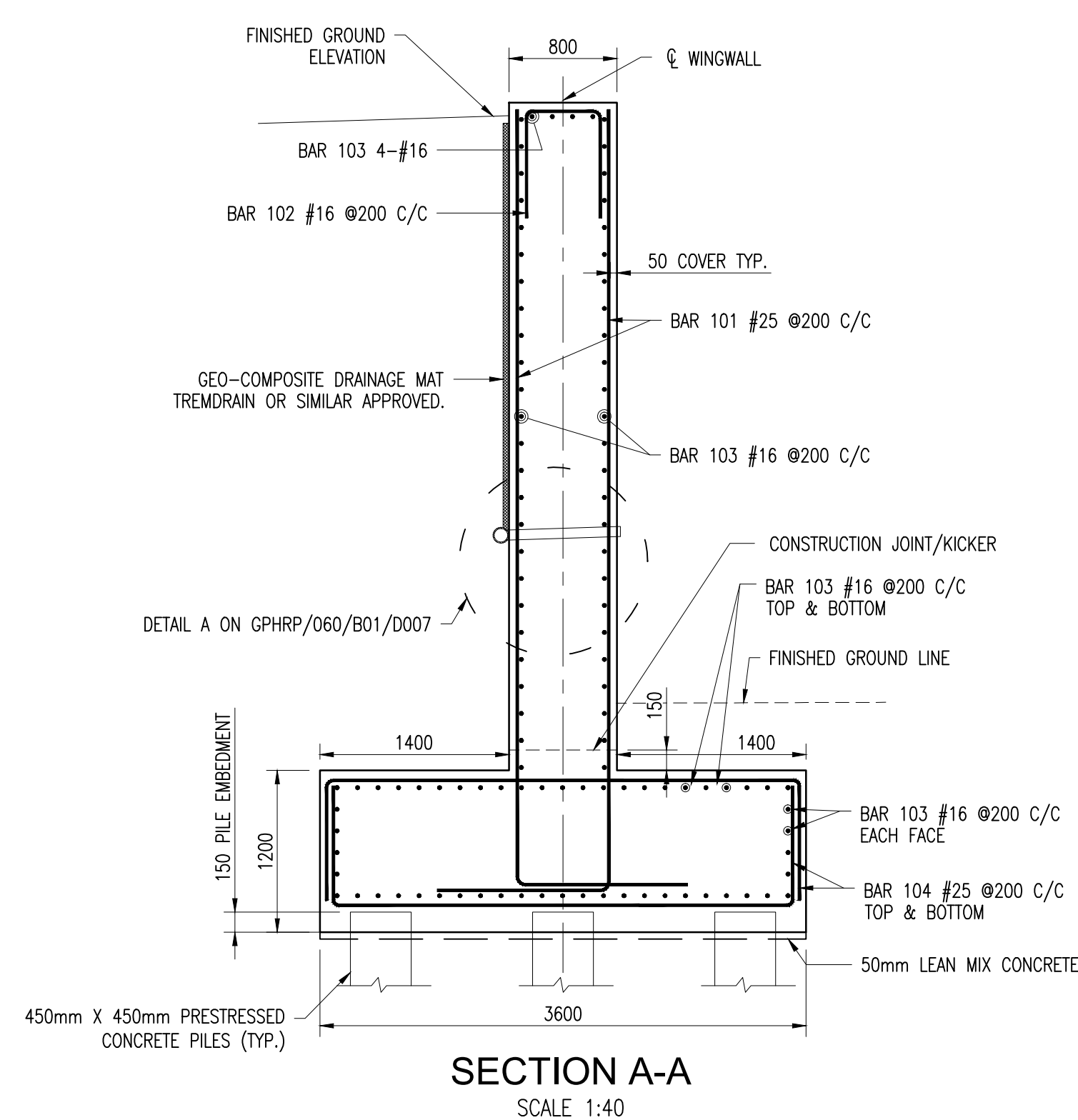
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
NORTH WEST WINGWALL DETAILS

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

Drawing No. **GPHRP/060/S1/B01/D014** Revision **C**

Drawing Scale: As noted on A1

Plot Scale: 1 : 1



Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "F" ["]	Dim "N" ["]
101	25	10	200		VARIES 4690–6045	1270				
102	16	11	200		700	720	720			
103	16	12	200		VARIES 5180–6630	VARIES 2830–5770			45	
104	16	1	200		3500	925	925			
105	16	1	200		VARIES 200–3180					
106	25	10			VARIES	925	925			
107	25	1	150		VARIES	925				

1. FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
3. ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D006.
5. BACKFILLING OF THE STRUCTURE SHALL NOT COMMENCE UNTIL THE WALL HAS ACHIEVED ITS 28 DAY CYLINDER COMPRESSIVE STRENGTH. BACKFILLING OF THE STRUCTURE SHALL BE CARRIED OUT IN STEPS OF UP TO 300mm THICK.
6. ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROF 30HL OR SIMILAR APPROVED.
7. GEO-COMPOSITE DRAINAGE MAT, WEEPHOLES AND PERFORATED PIPES ARE TO BE FITTED AS PER THE SUPPLIERS RECOMMENDATIONS.
8. CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 30MPa.
9. REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414 \text{ MPa}$).
10. COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.



Employer: GOVERNMENT OF BELIZE

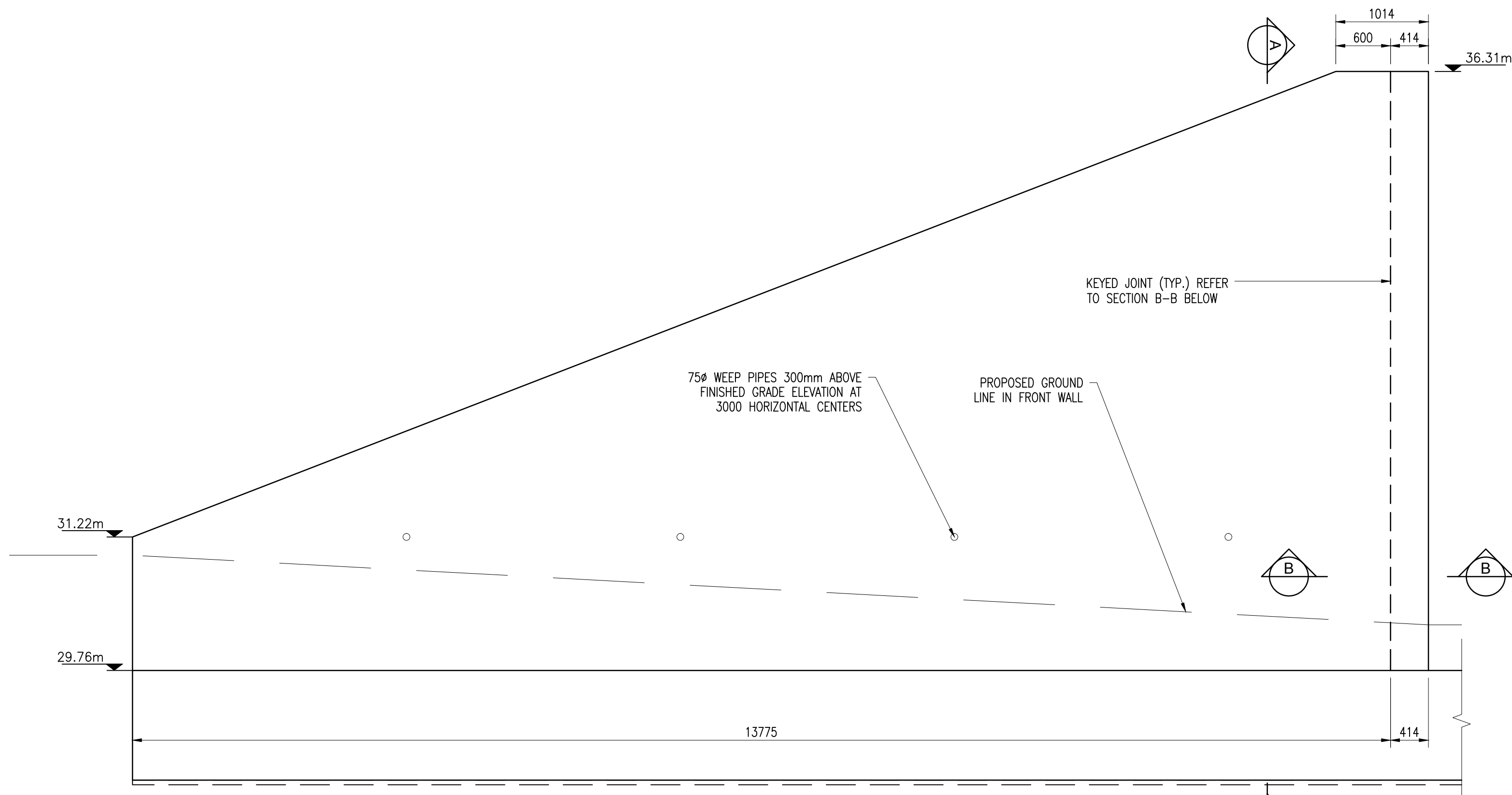
George Price Highway
Rehabilitation Project

SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
SOUTH WEST WINGWALL DETAILS

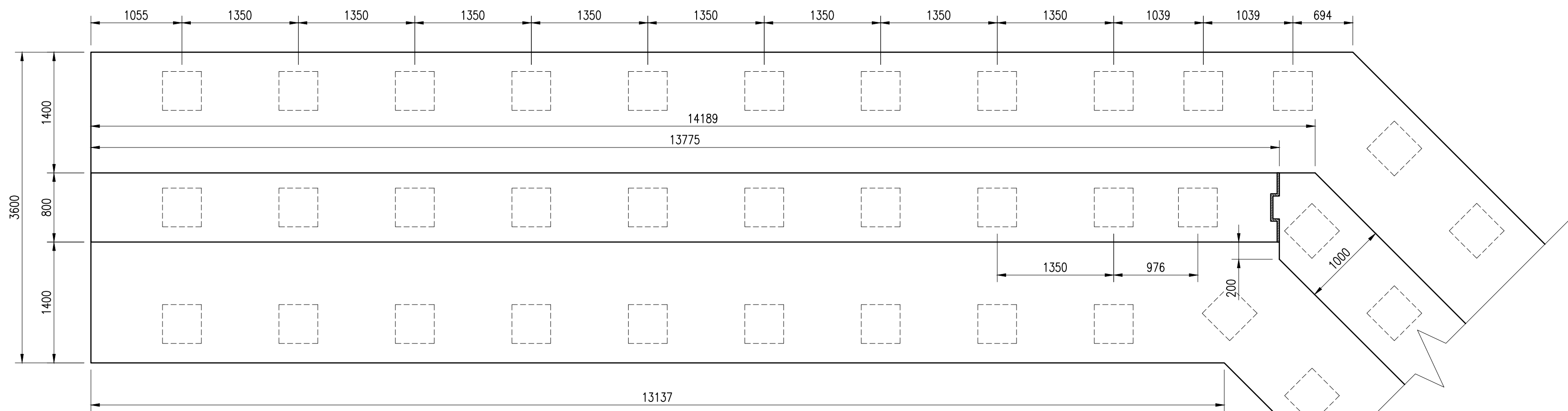
Drawing No.	Revision
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Drawing Scale: As noted on A1

Plot Scale: 1 : 1



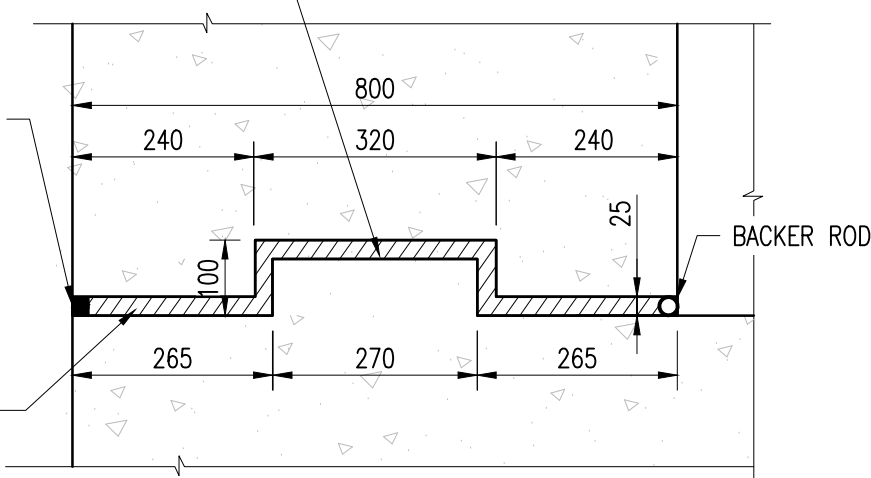
ELEVATION
SCALE 1:40



PLAN ON PILECAP
SCALE 1:40

SILICONE JOINT BEAD TREMCO SPECTRUM 800/Ge SL900 SILPRUF NB/TREMCO VULKEM 116 OR SIMILAR APPROVED. SEALANT BEAD TO EXTEND TO TOP OF WALL BASE. AS PER TECHNICAL SPECIFICATION ARTICLE 712.01.a

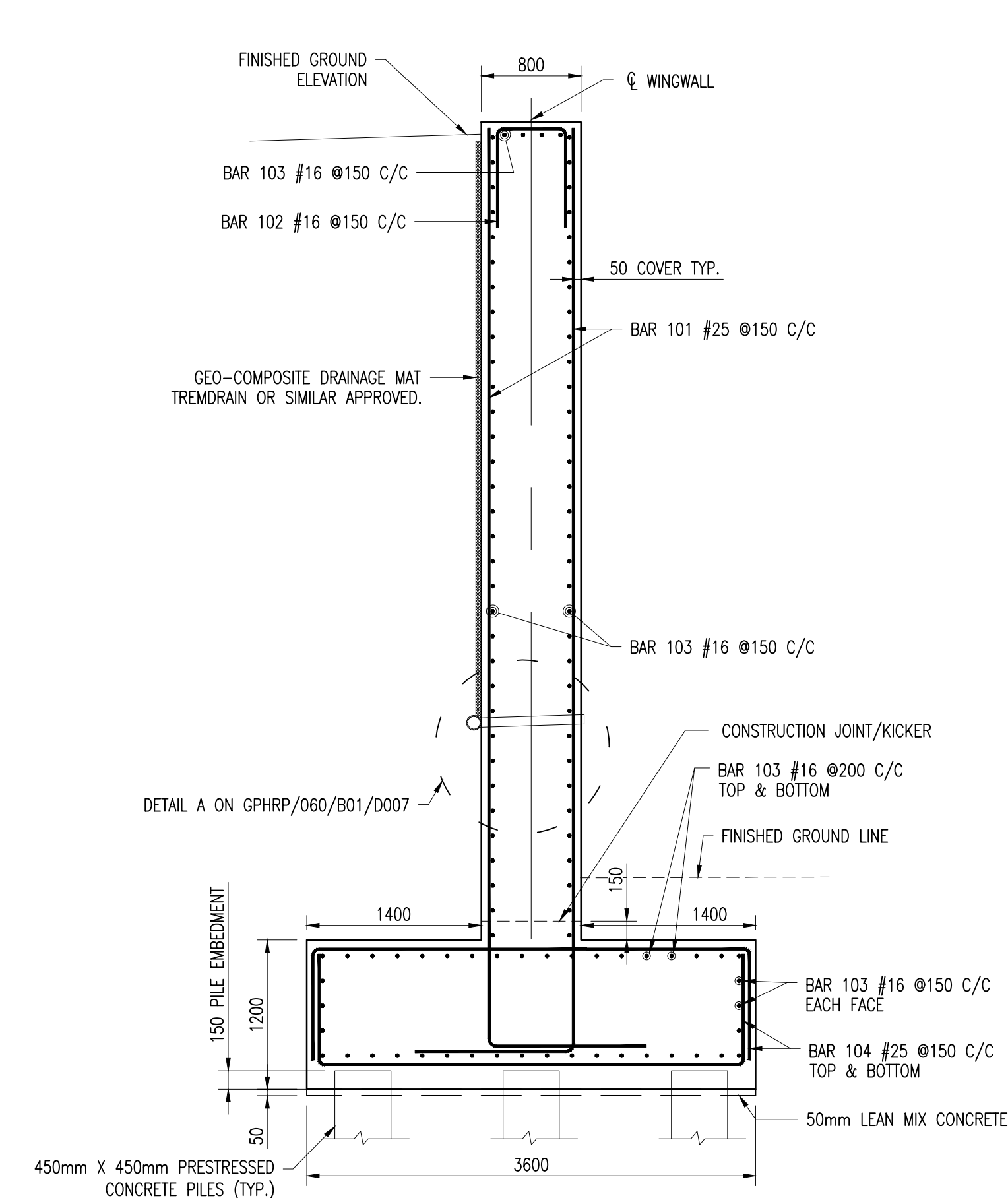
GRACE AEROFILL FILLER BOARD (OR SIMILAR APPROVED) AS PER TECHNICAL SPECIFICATION ARTICLE 712.01.b



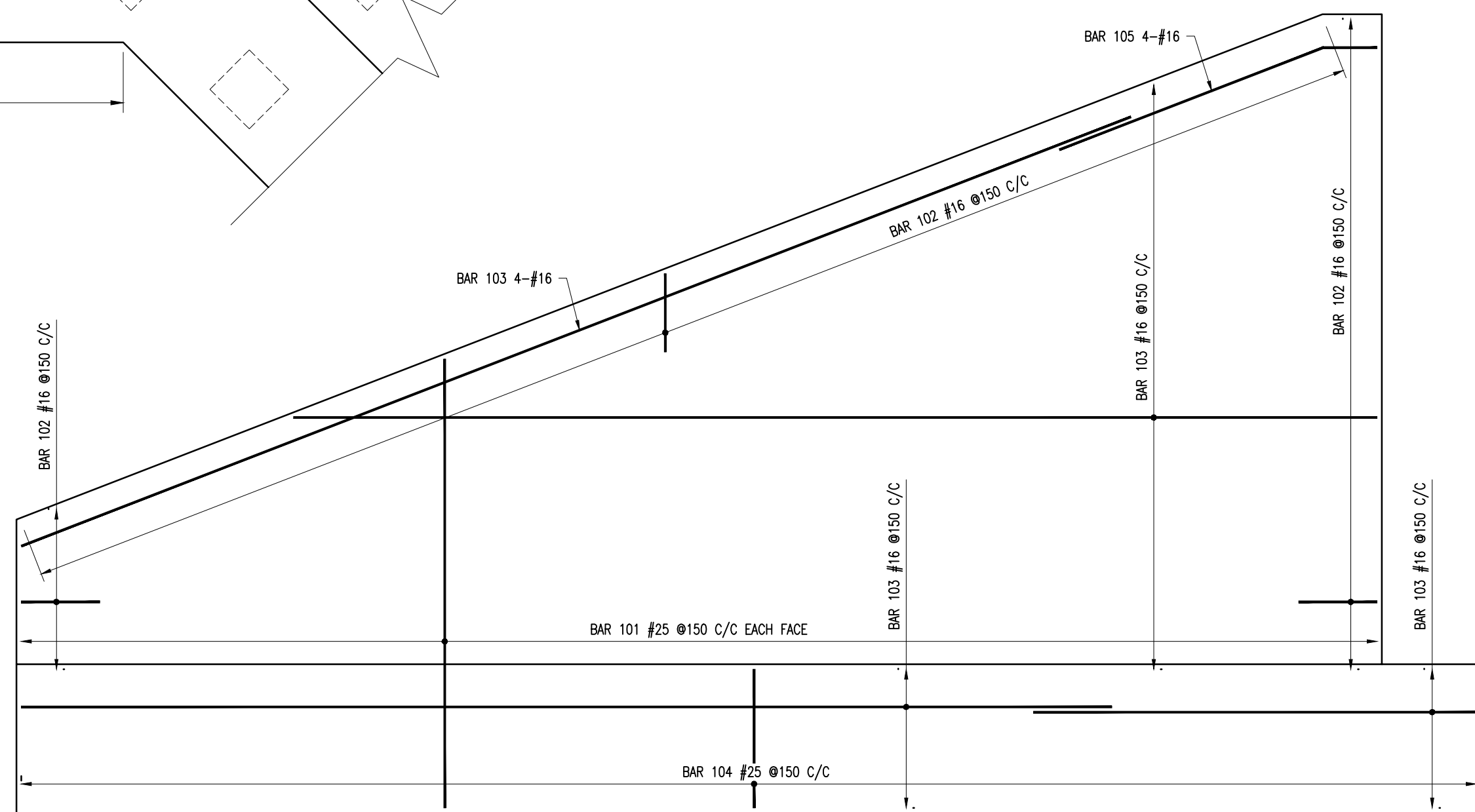
SECTION B-B
KEYED JOINT
SCALE 1:10

REINFORCING SCHEDULE

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "I" [mm]	Dim "N" [mm]
101	25	10	150		VARIES 2410-7510	1270				
102	16	11	150		700	720	720			
103	16	1	150		Varies 400-12000					
104	25	11	150		3500	925	925			
105	16	12	150		2855	540			21	

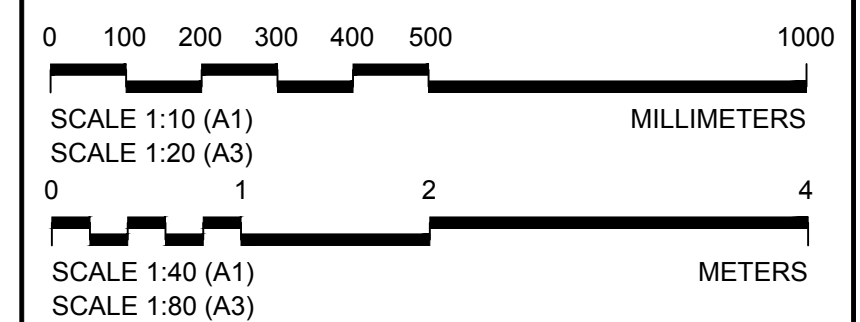


SECTION A-A
SCALE 1:40



REINFORCEMENT ELEVATION
SCALE 1:40

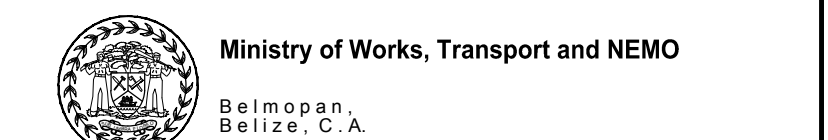
- Notes:
- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 - ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 - FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D006.
 - BACKFILLING OF THE STRUCTURE SHALL NOT COMMENCE UNTIL THE WALL HAS ACHIEVED ITS 28 DAY CYLINDER COMPRESSIVE STRENGTH. BACKFILLING OF THE STRUCTURE SHALL BE CARRIED OUT IN STEPS OF UP TO 300mm THICK.
 - ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROOF 30HL OR SIMILAR APPROVED.
 - GEO-COMPOSITE DRAINAGE MAT, WEEPHOLES AND PERFORATED PIPES ARE TO BE FITTED AS PER THE SUPPLIERS RECOMMENDATIONS.
 - CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 30MPa.
 - REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414$ MPa).
 - COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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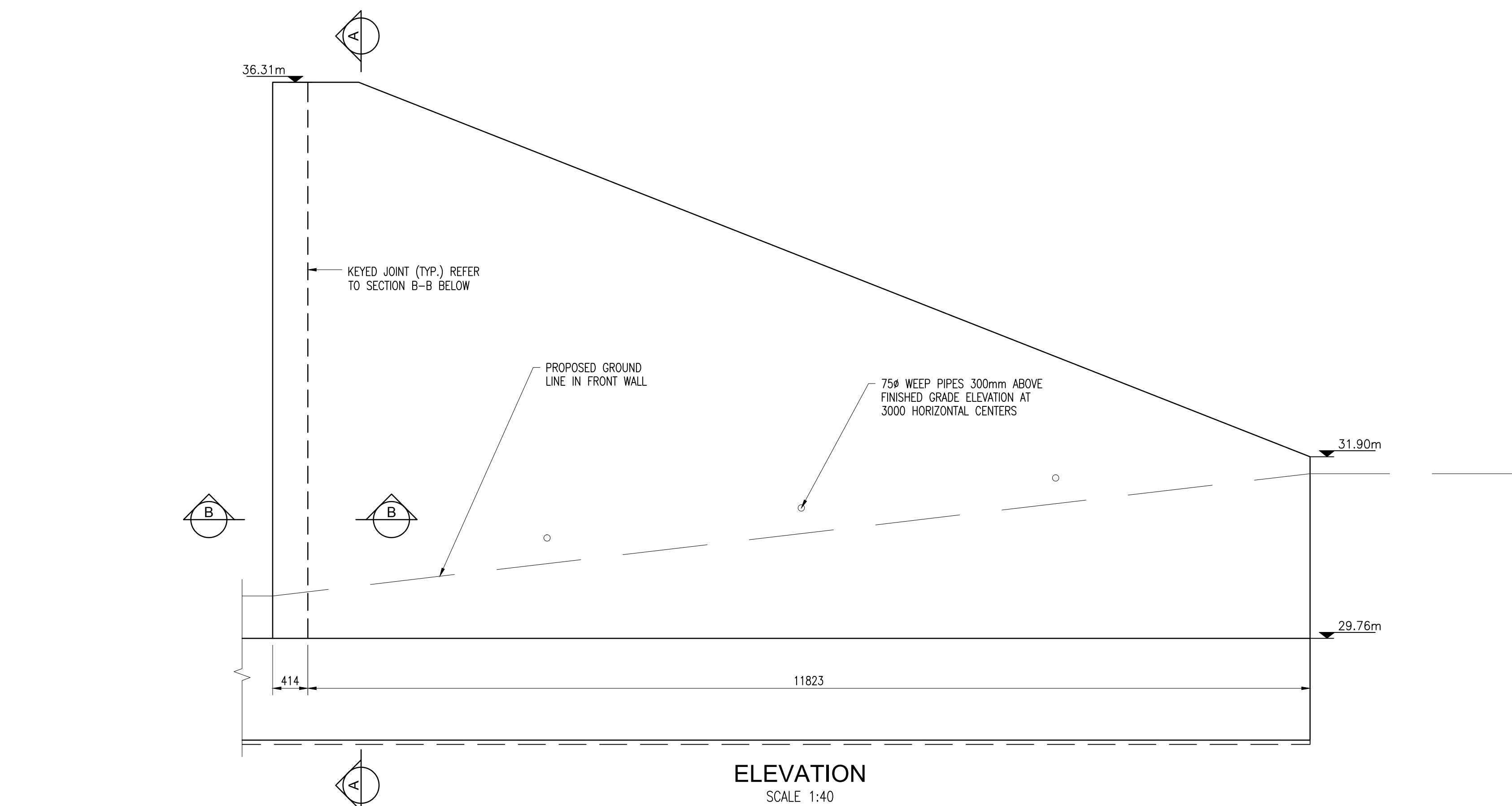
Project
George Price Highway
Rehabilitation Project

Drawing Title
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
SOUTH EAST WINGWALL DETAILS

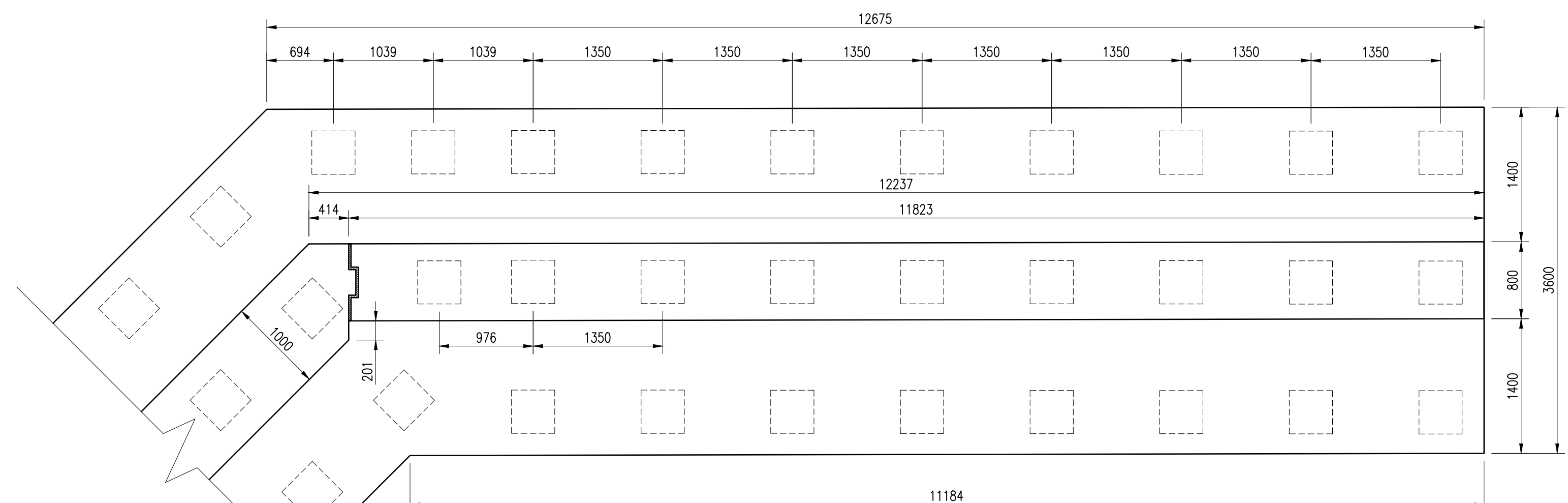
Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

Drawing No. GPHRP/060/S1/B01/D016 Revision C

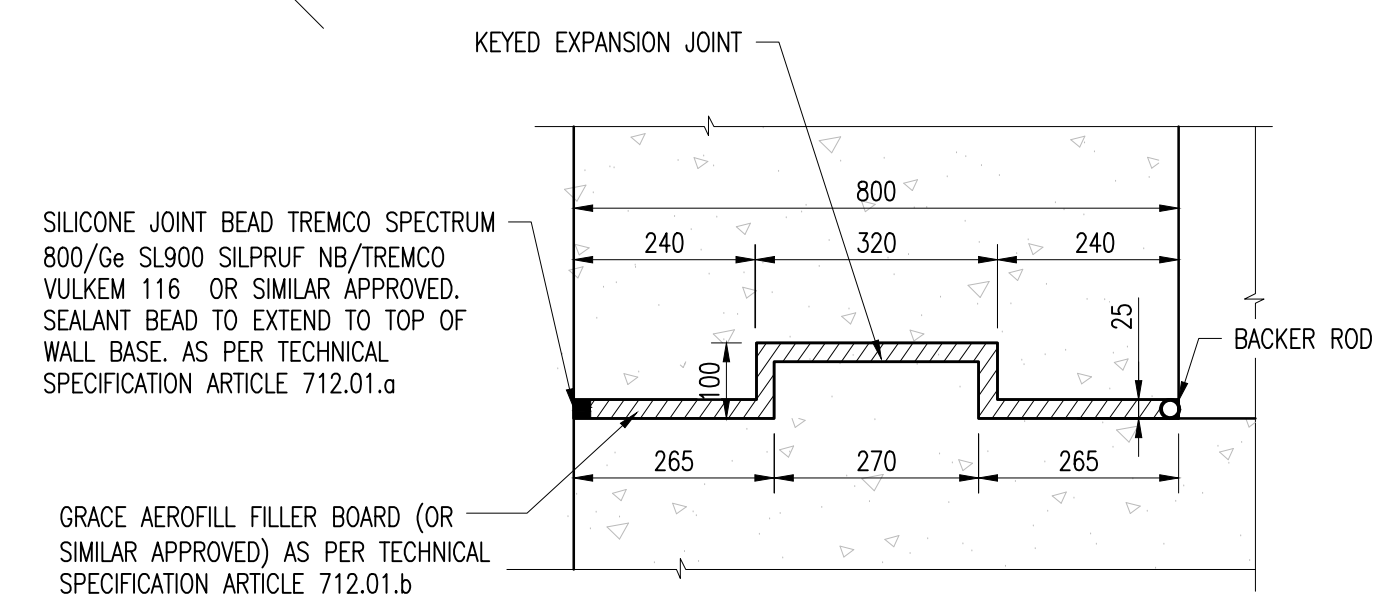
Drawing Scale: As noted on A1
Plot Scale: 1 : 1



ELEVATION
SCALE 1:40



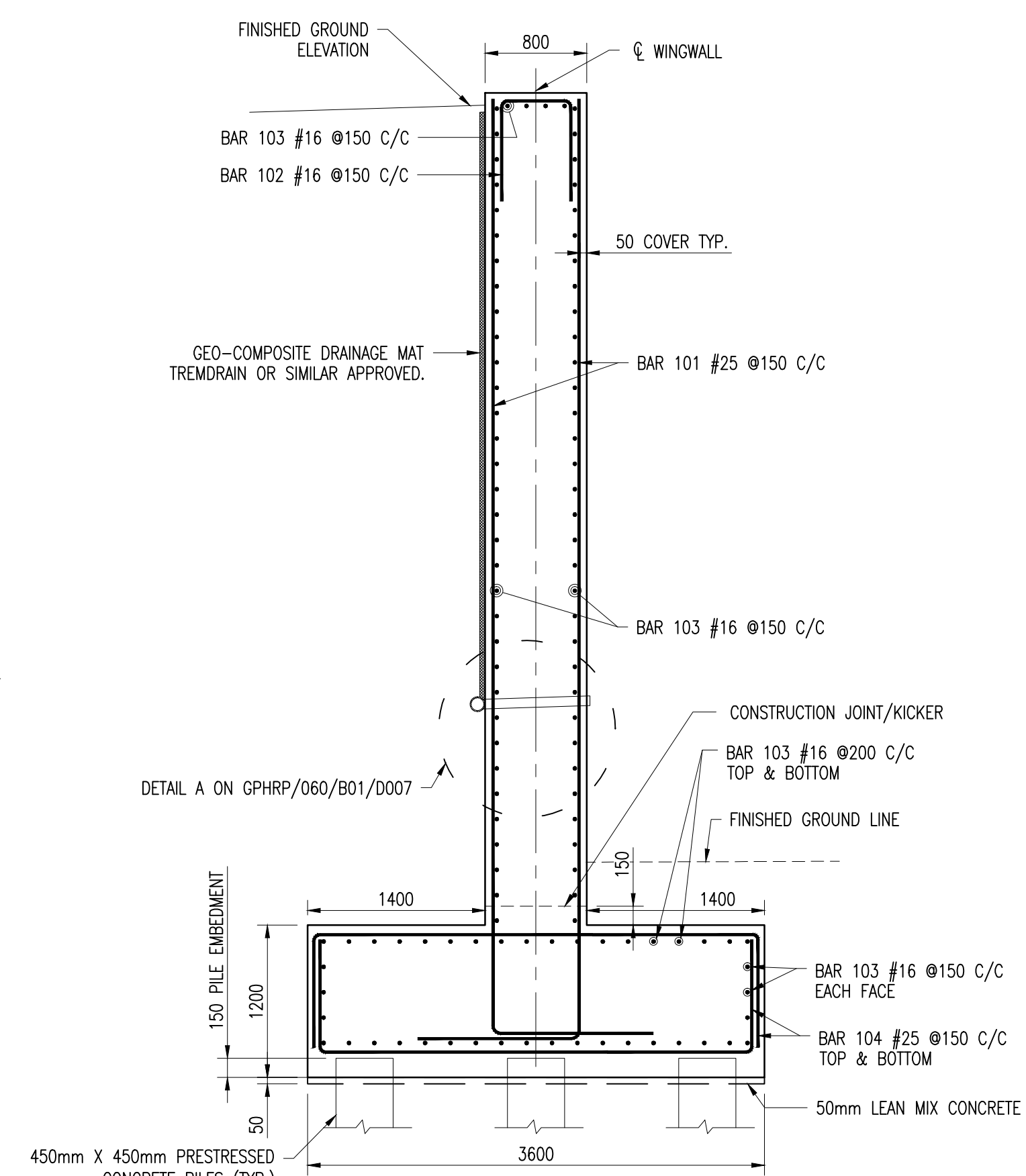
PLAN ON PILECAP
SCALE 1:40



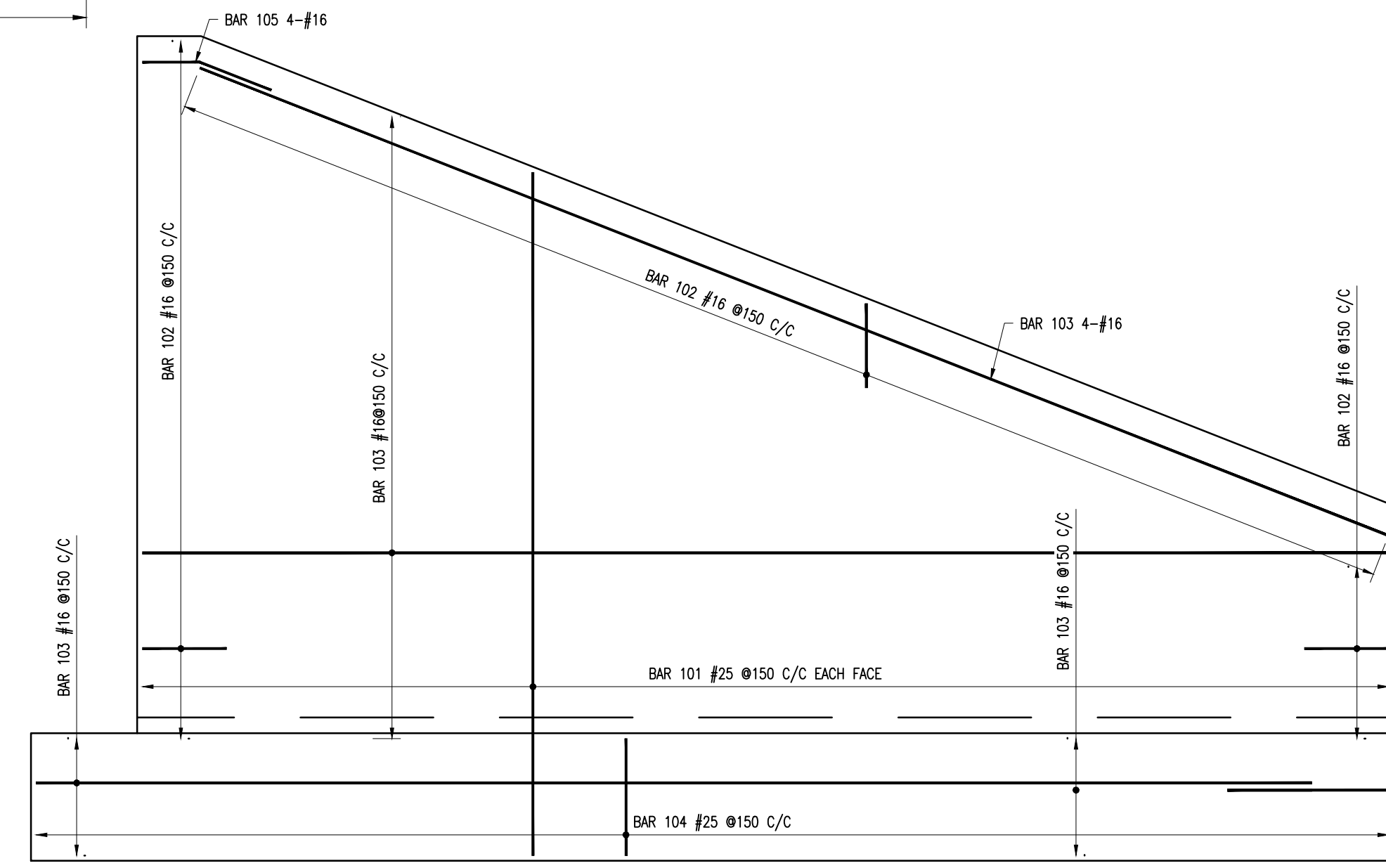
SECTION B-B
KEYED JOINT
SCALE 1:10

REINFORCING SCHEDULE

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "F" [mm]	Dim "N" [mm]
101	25	10	150		VARIES 3090-7510	1270				
102	16	11	150		700	720	720			
103	16	1	150		VARIES 400-12000					
104	25	11	150		3500	925	925			
105	16	12			540	720		21		

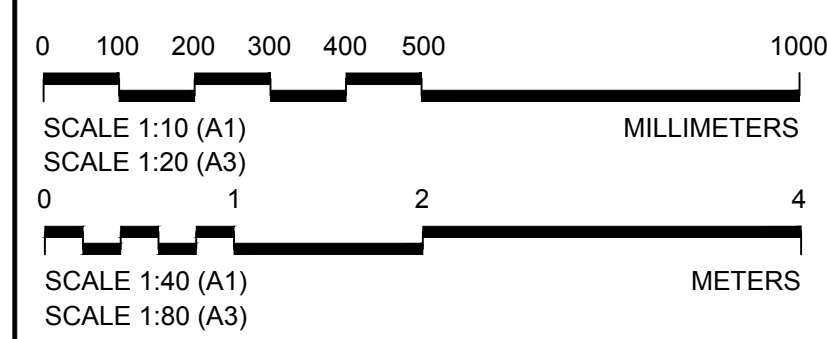


SECTION A-A
SCALE 1:40



REINFORCING SCHEDULE
SCALE: 1:50

- Notes:
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 - ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
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100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works, Transport and NEMO

Belmopan, Belize, C.A.

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www.ch2m.com

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Project: George Price Highway Rehabilitation Project

Drawing Title: SECTION 1 ROARING CREEK BRIDGE AT STATION 0+248.69 NORTH EAST WINGWALL DETAILS

Drawn by: KMJ Date: JULY 11, 2016

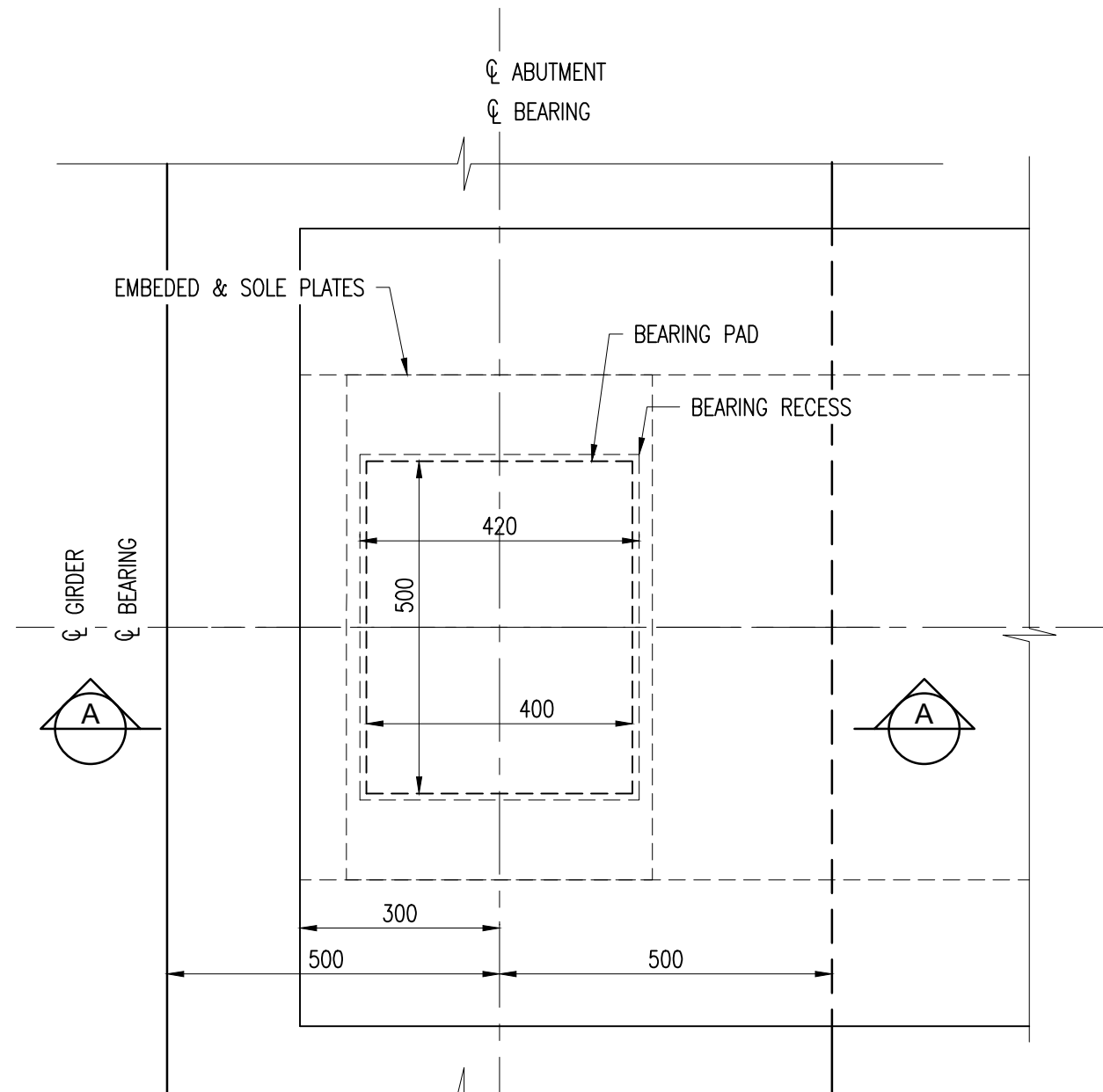
Checked by: JSP Date: JULY 11, 2016

Authorised by: MS Date: JULY 11, 2016

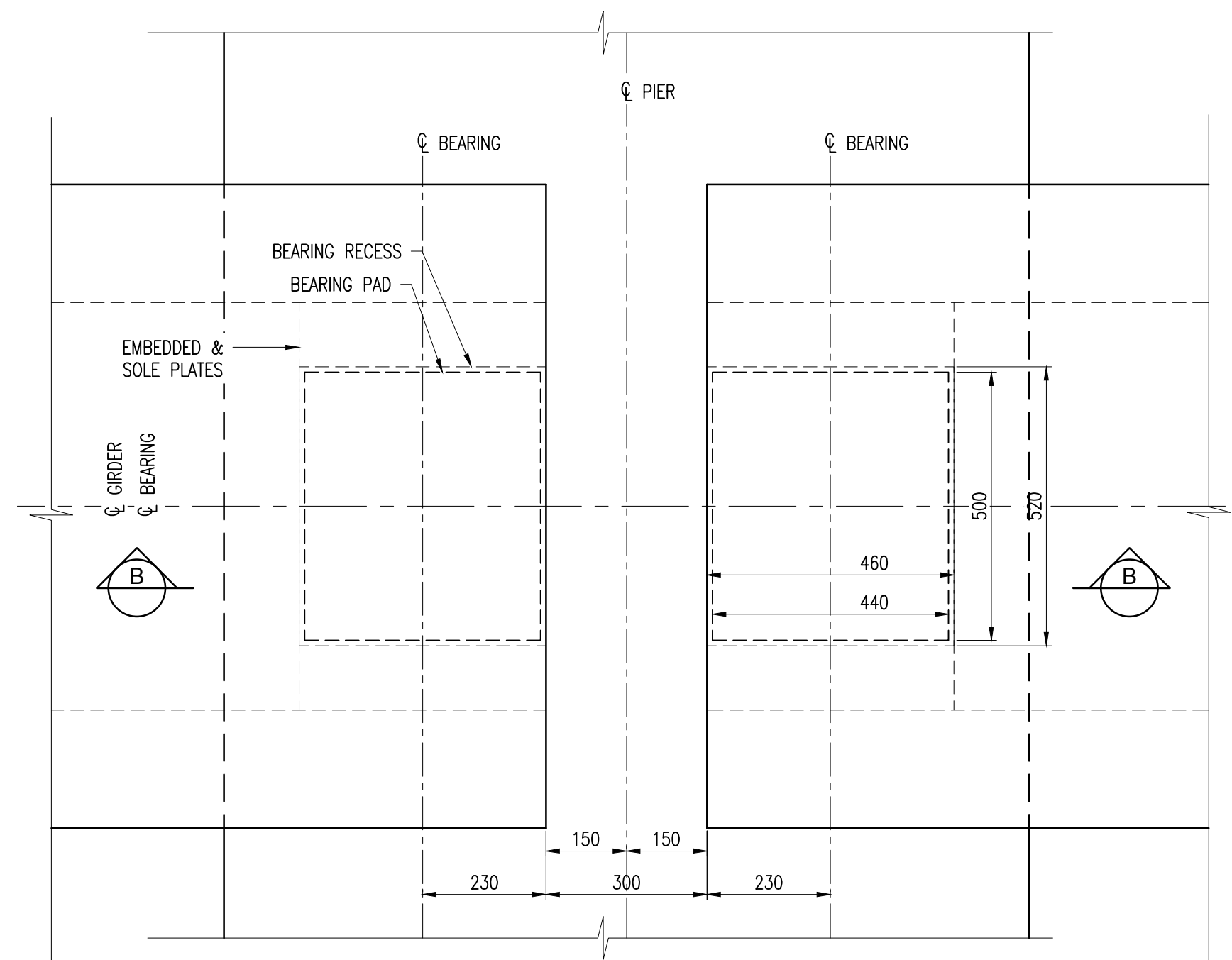
Drawing No.: GPHRP/060/S1/B01/D017 Revision: C

Drawing Scale: As noted on A1

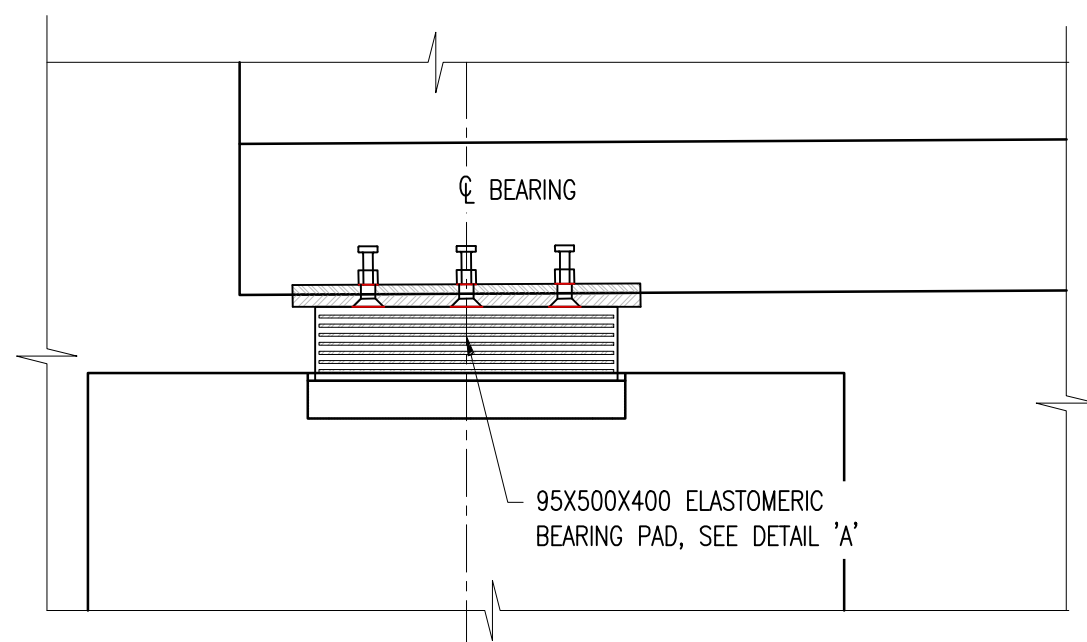
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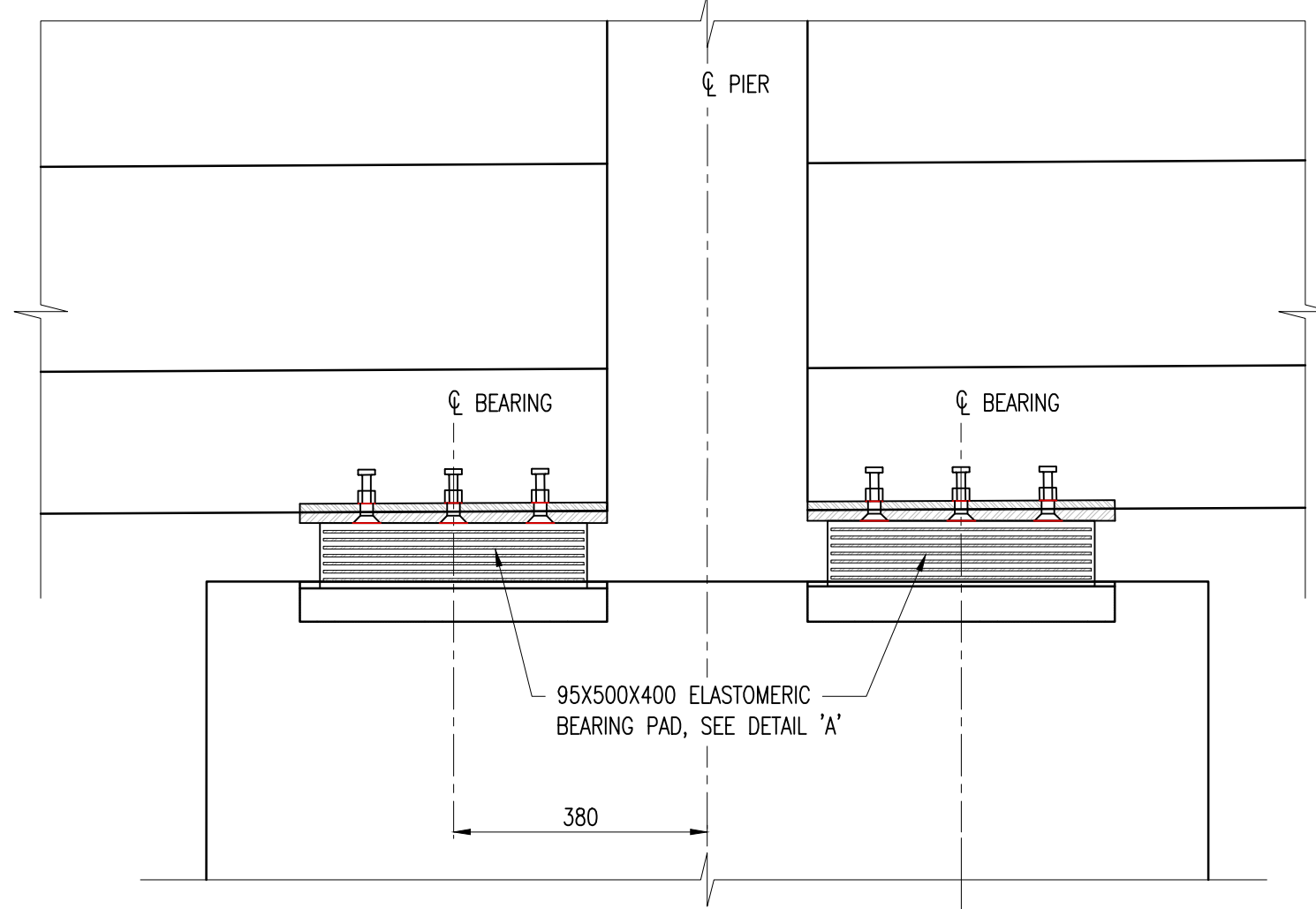
PLAN AT ABUTMENT
SCALE 1:10



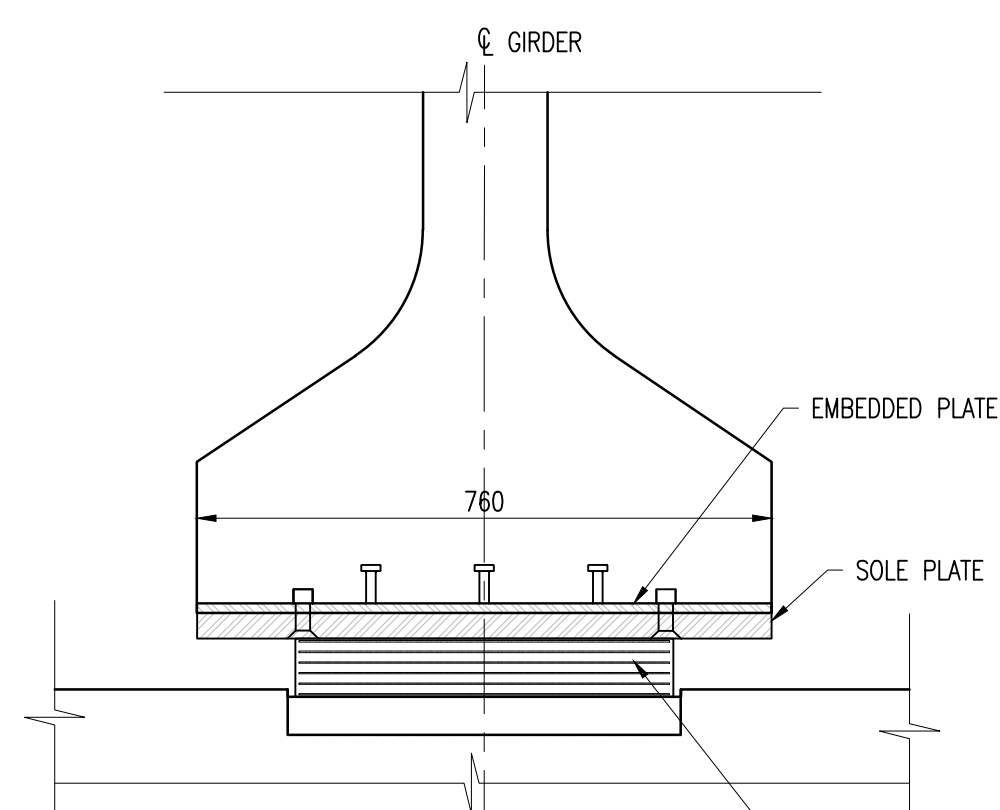
PLAN AT PIER
SCALE 1:10



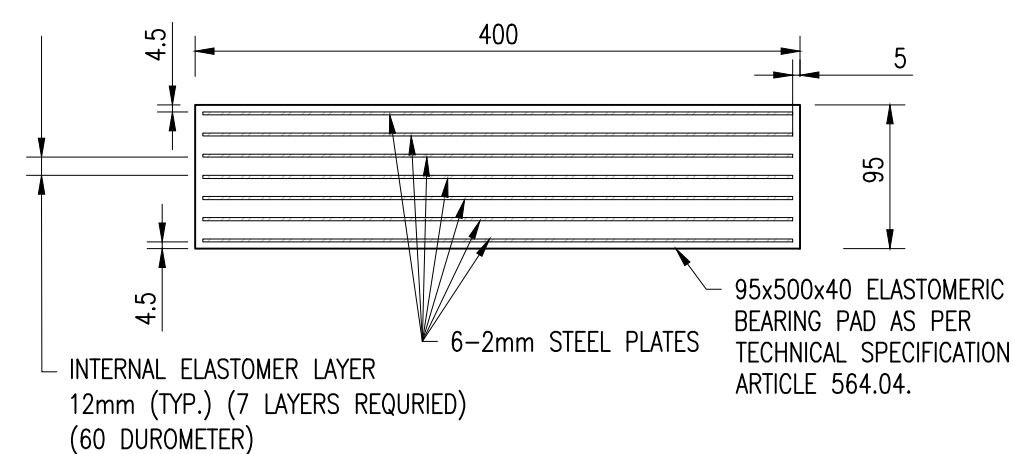
SECTION A-A
SCALE 1:10
BEARING AT ABUTMENT



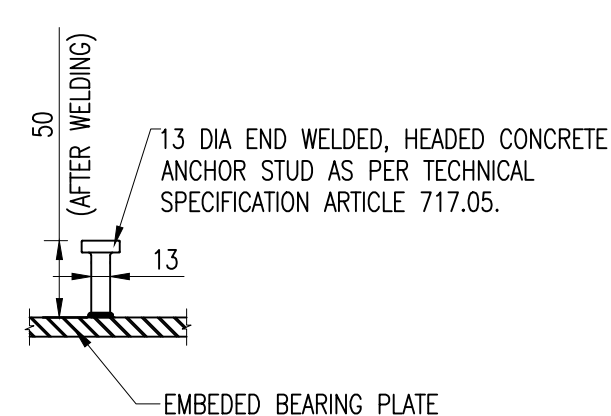
SECTION B-B
SCALE 1:10
BEARING AT PIER



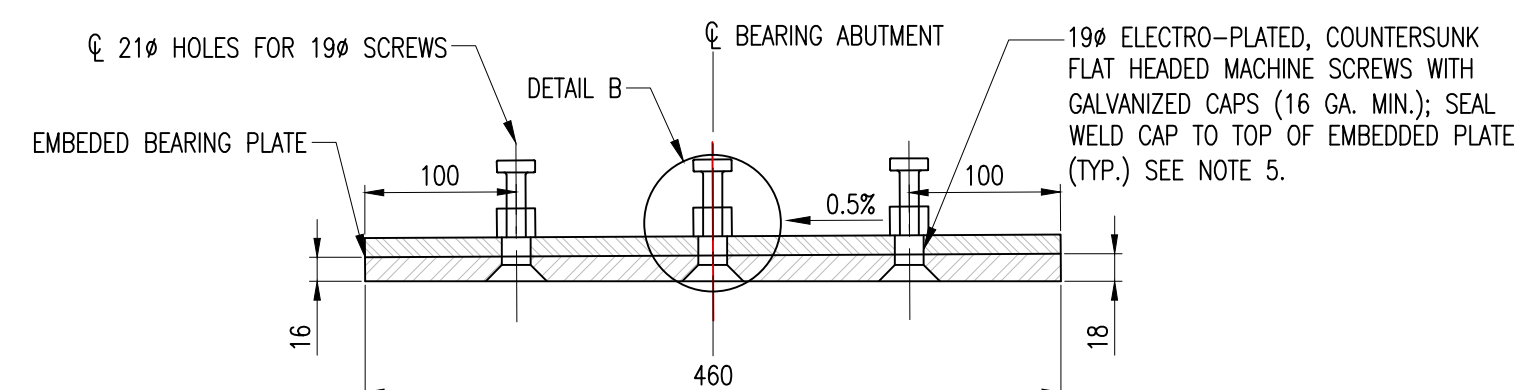
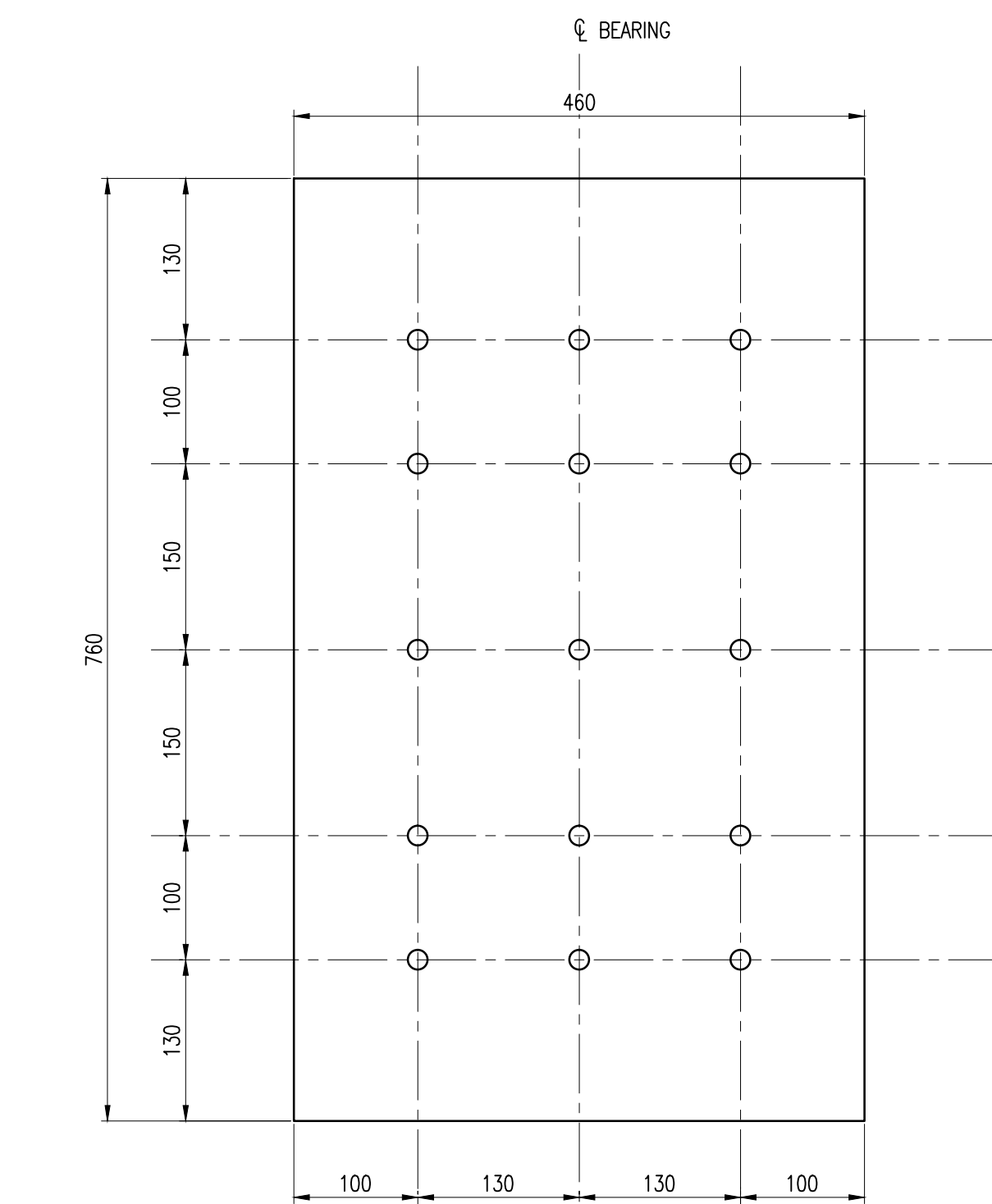
SECTION B-B
SCALE 1:10



ELASTOMERIC BEARING
DETAIL A
SCALE 1:5



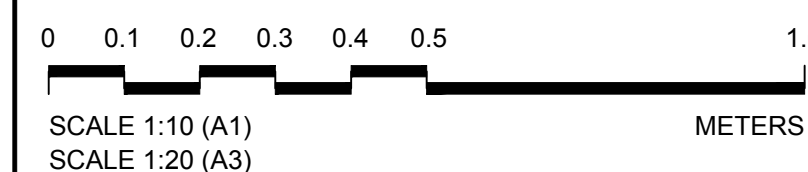
DETAIL B
SCALE 1:5



SOLE PLATE DETAILS
SCALE 1:5

Notes:

- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- FOR BEARING RECESS DETAILS SEE DRAWING GPHRP/060/S1/B01/D006.
- HOT-DIP GALVANIZED BEARING PLATES AFTER FABRICATION EXCEPT THAT GALVANIZED CAPS MAY BE WELDED IN PLACE AFTER HOT-DIP GALVANIZING. DRILL BEARING PLATES AS AN ASSEMBLED UNIT. THREAD EMBEDDED BEARING PLATE ONLY. DRILL AND THREAD HOLES PERPENDICULAR TO THE BOTTOM OF SOLE PLATE AND PRIOR TO PLATES BEING GALVANIZED (ASTM A 123).
- PROVIDE ELECTROPLATED, FLAT COUNTERSUNK HEAD CAP SCREWS IN ACCORDANCE WITH ASTM F 835. ELECTROPLATING SHALL BE ASTM B 633, SC 2, TYPE 1. PROVIDE SCREWS LONG ENOUGH TO MAINTAIN A 19 MINIMUM EMBEDMENT INTO EMBEDDED BEARING PLATE A AND GALVANIZED CAP. PROVIDE STEEL GALVANIZED CAPS WITH 13 MIN. TO 38 MAX. HEIGHT AND NOMINAL 25 INSIDE DIAMETER.



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan, Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

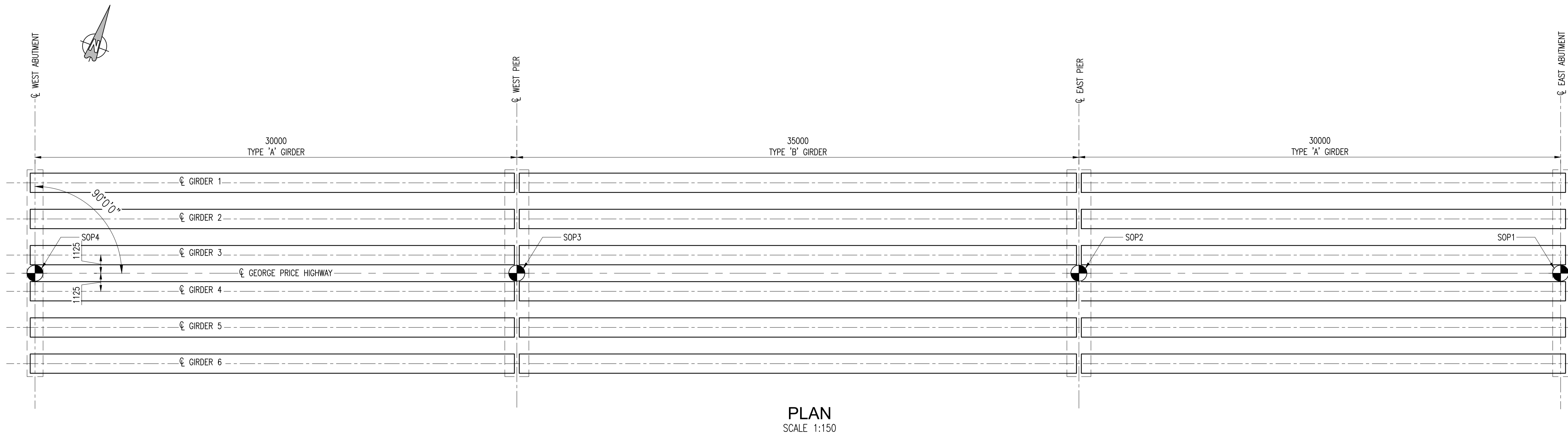
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
BEARING DETAILS

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

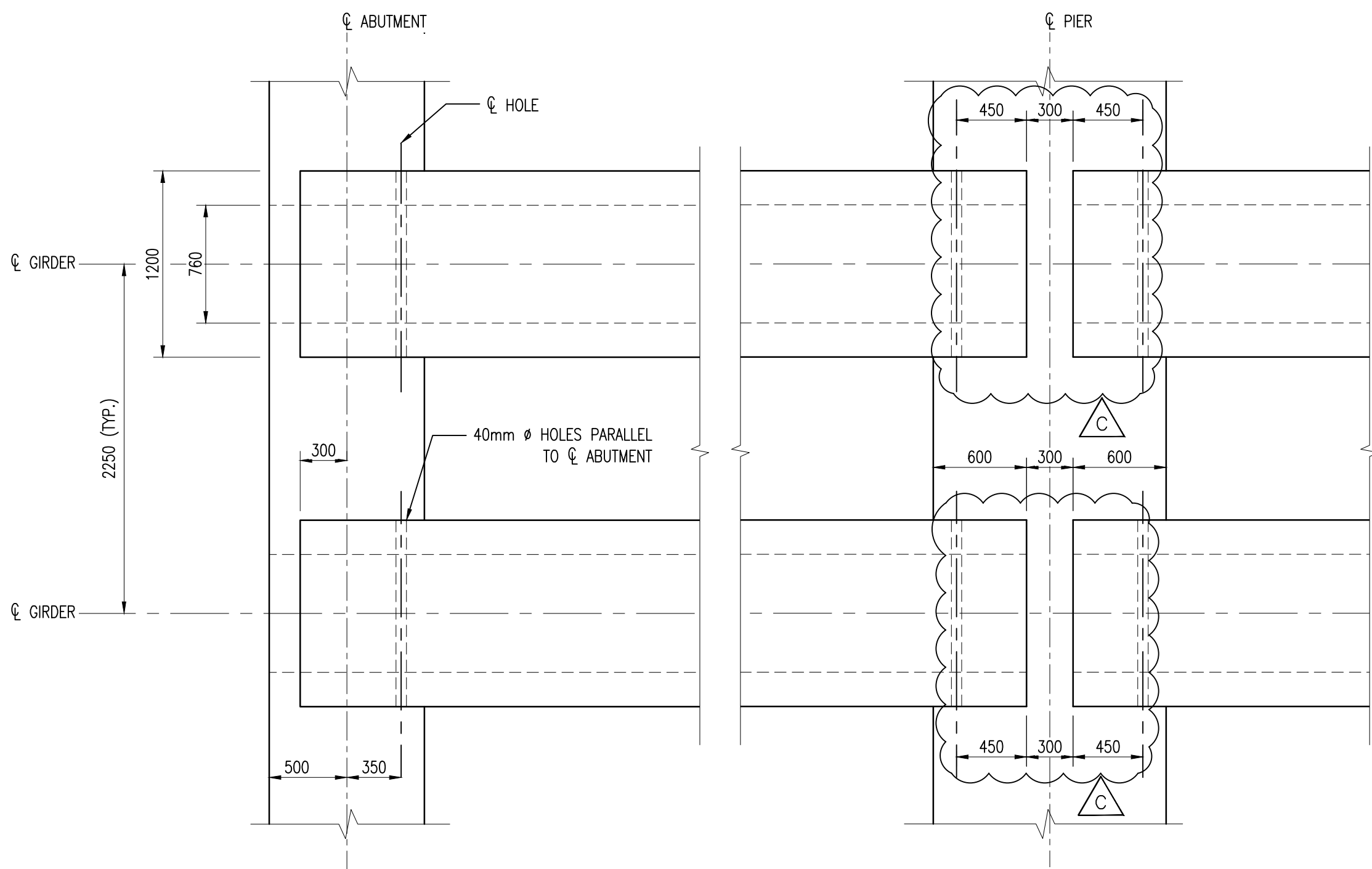
Drawing No. **GPHRP/060/S1/B01/D018** Revision **C**

Drawing Scale: As noted on A1

Plot Scale: 1 : 1

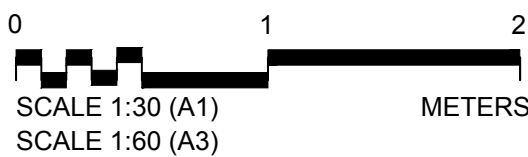


PLAN
SCALE 1:150



PLAN - DIAPHRAGM DETAILS
SCALE 1:30

- Notes:
- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D004.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWINGS GPHRP/060/S1/B01/D020 & GPHRP/060/S1/B01/D021.



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	DIAPHRAGM HOLES ADDED TO GIRDERS
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project

George Price Highway
Rehabilitation Project

Drawing Title

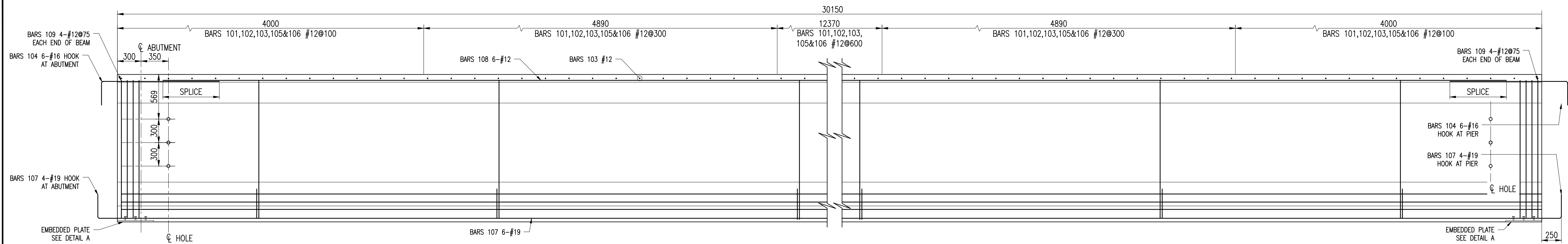
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
GIRDER LAYOUT

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

Drawing No. Revision
GPHRP/060/S1/B01/D019 C

Drawing Scale: As noted on A1

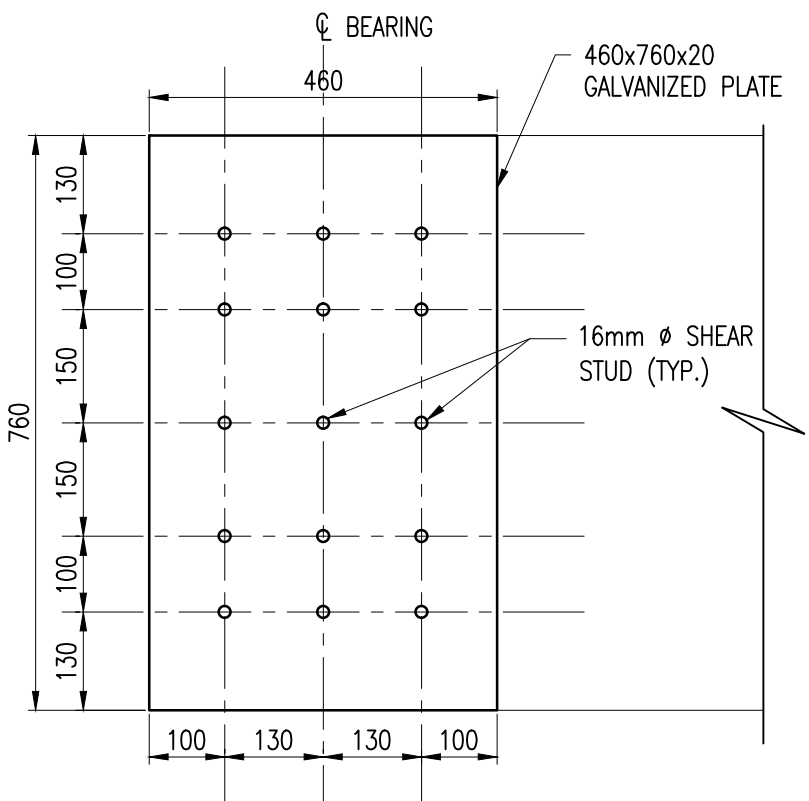
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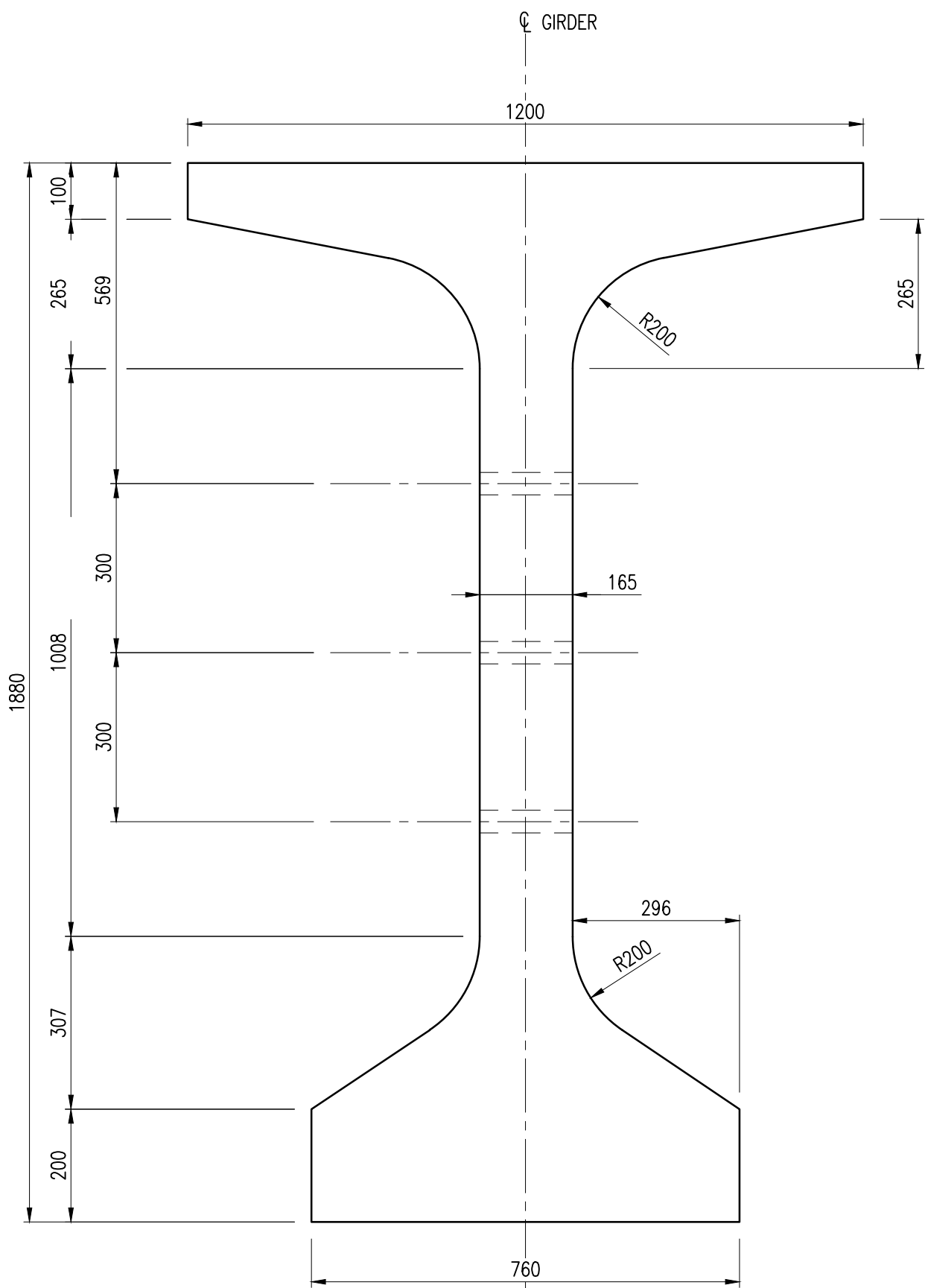
ELEVATION
SCALE 1:30

REINFORCING SCHEDULE

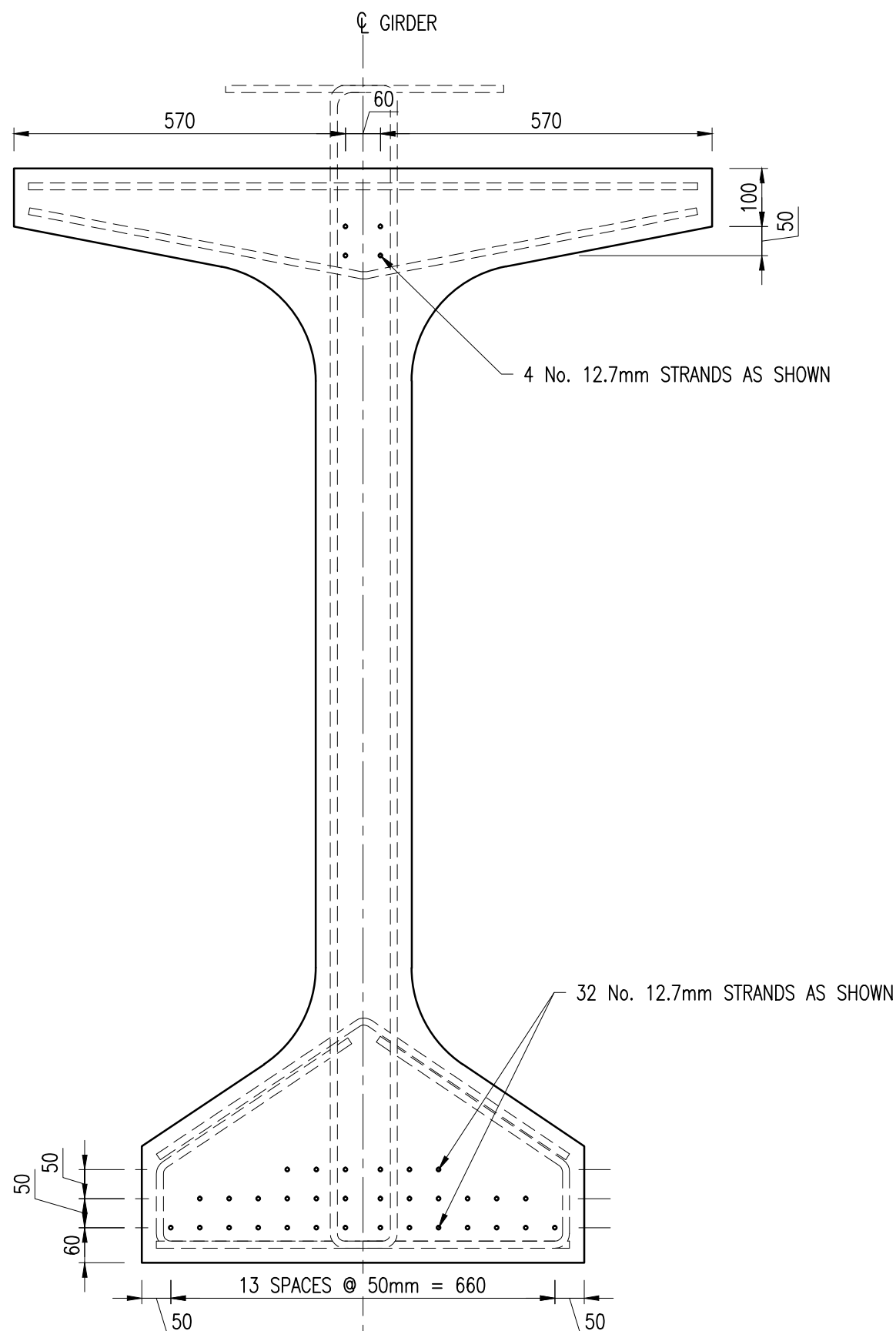
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101	12	5			1980	100	290	290	
102	12	12			585	585			22
103	12	1			1100				
104	16	10			1500	500			
105	12	35			660	125	215	320	
106	12	12			430	430			68
107	19	10			1750	790			
108	12	1			12000				
109	12	11	75		100	1980	1980		



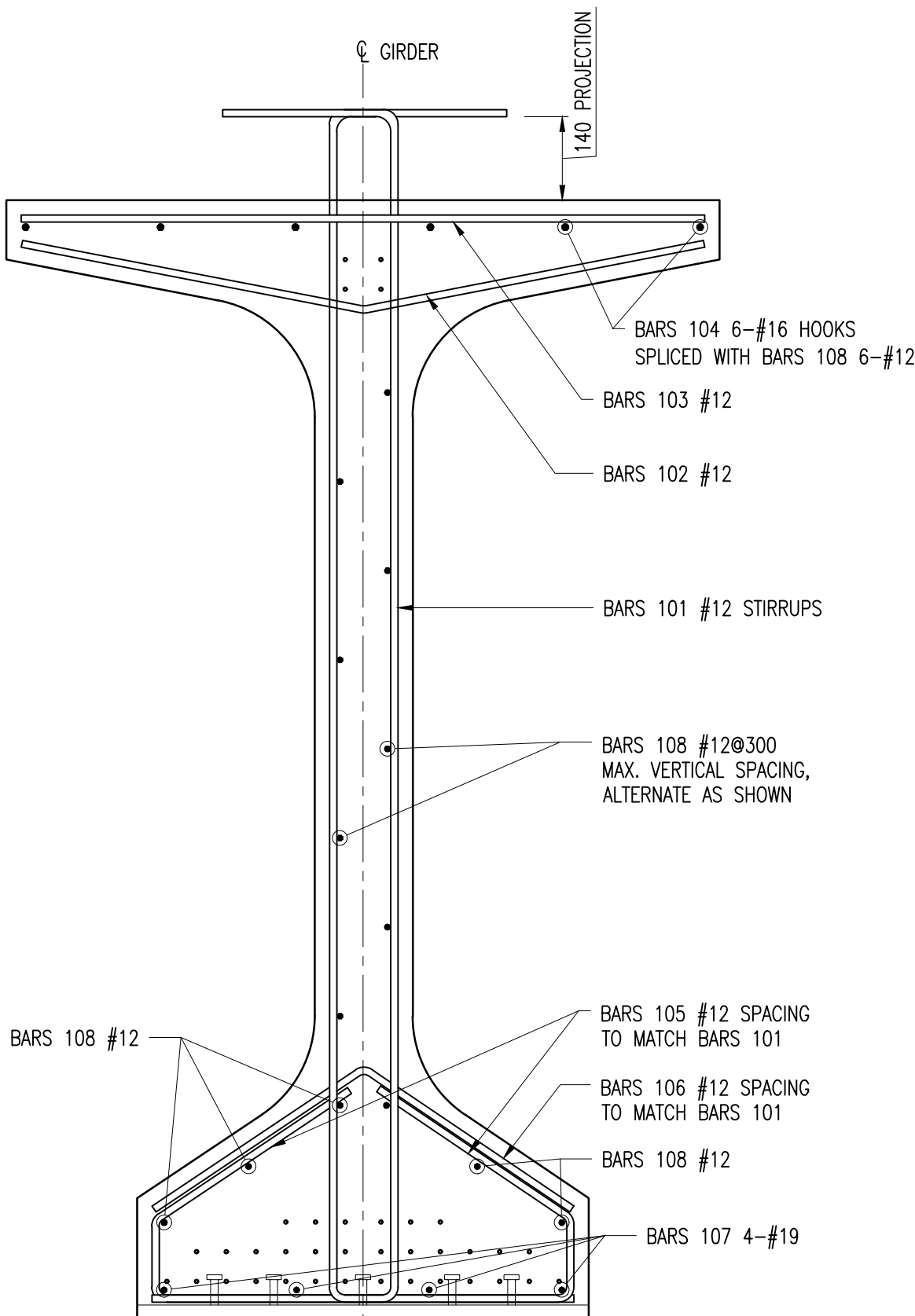
DETAIL "A"
SCALE 1:10



TYPICAL SECTION
SCALE 1:10



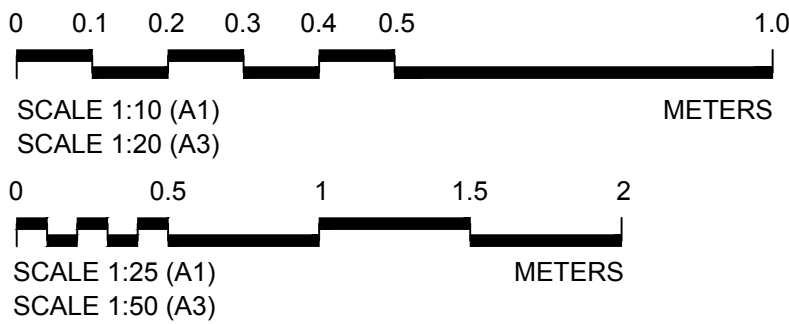
TYPICAL STRAND PATTERN
SCALE 1:10



TYPICAL REINFORCEMENT DETAILS
SCALE 1:10

Notes:

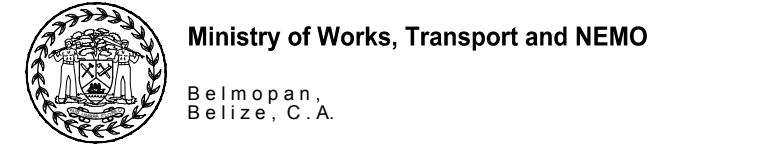
- FOR GENERAL NOTES, SEE DRAWINGS GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D010.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 50MPa FOR PRESTRESSED GIRDERS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE PROPOSED WORK AND ALL DETAILS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH FABRICATION OF THE GIRDERS.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- PRESTRESSING STEEL SHALL BE LOW-RELAXATION SEVEN WIRE STRANDS, SIZE DESIGNATION 12.7, GRADE 1860.
- PRESTRESSING AND REINFORCING DETAILS SHOWN APPLY TO ALL GIRDERS.
- BARS 101 MAY BE SHIFTED TO AVOID END DIAPHRAGM HOLES.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING GPHRP/060/S1/B01/D019.
- CONFORM TO TECHNICAL SPECIFICATIONS ARTICLE 553 FOR PRESTRESSED CONCRETE WORKS.



100% FINAL DESIGN

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B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
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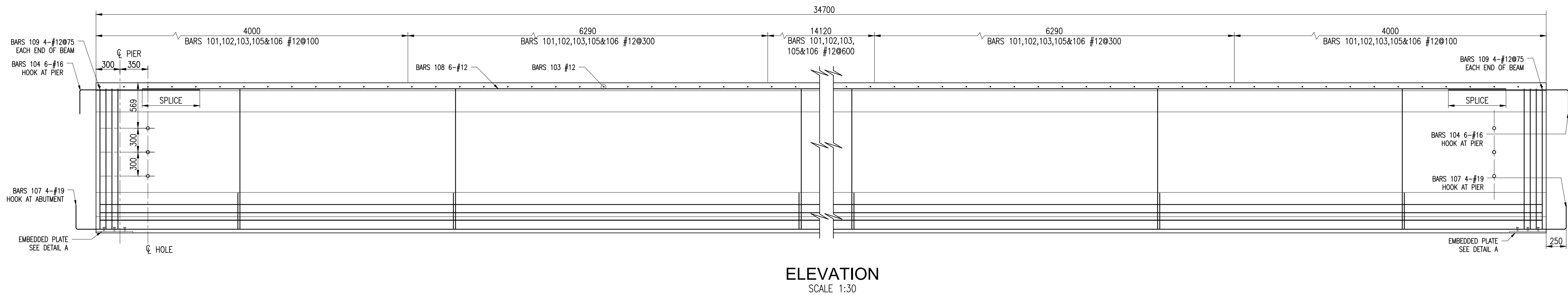
Project
George Price Highway
Rehabilitation Project

Drawing Title
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
PRESTRESSED GIRDER DETAILS
TYPE 'A'

Drawn by KMJ Date: JULY 11, 2016
Checked by JSP Date: JULY 11, 2016
Authorised by MS Date: JULY 11, 2016

Drawing No. Revision
GPHRP/060/S1/B01/D020 C

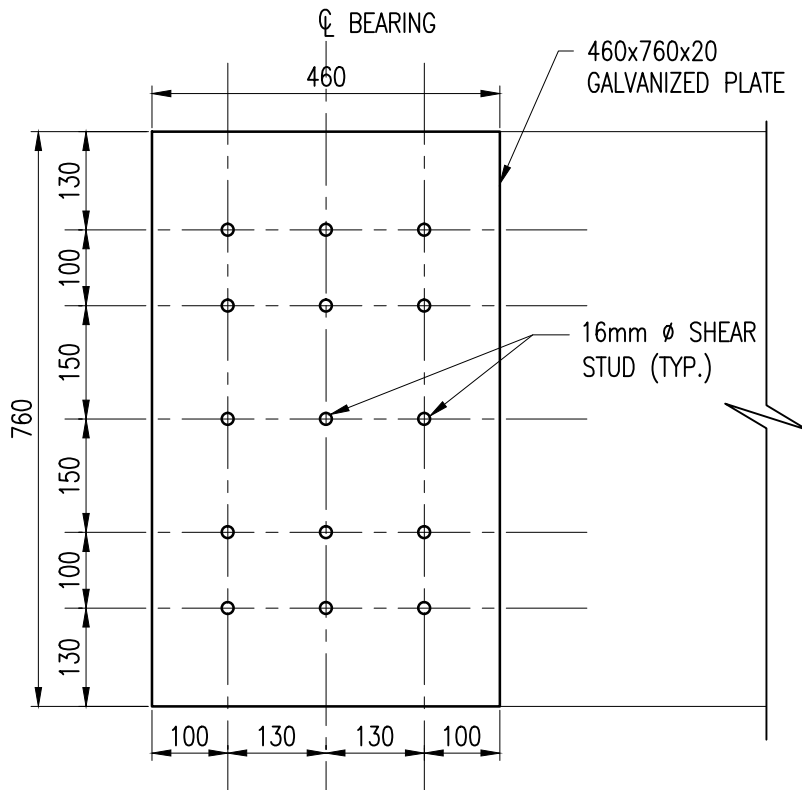
Drawing Scale: As noted on A1
Plot Scale: 1 : 1



ELEVATION
SCALE 1:30

REINFORCING SCHEDULE

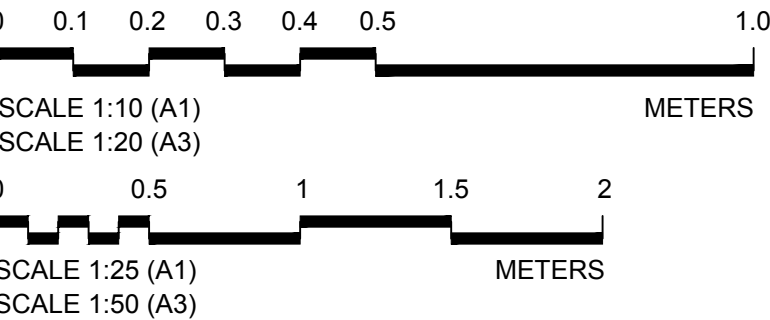
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101	12	5			1980	100	290	290	
102	12	12			585	585			22
103	12	1			1100				
104	16	10			1500	500			
105	12	35			660	125	215	320	
106	12	12			430	430			68
107	19	10			1750	790			
108	12	1			12000				
109	12	11	75		100	1980	1980		



DETAIL "A"
SCALE 1:10

Notes:

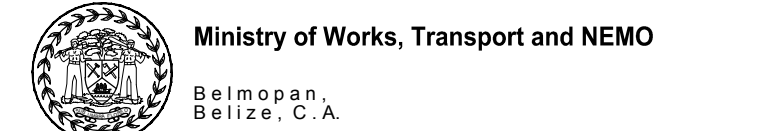
- FOR GENERAL NOTES, SEE DRAWINGS GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D010.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 50MPa FOR PRESTRESSED GIRDERS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE PROPOSED WORK AND ALL DETAILS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH FABRICATION OF THE GIRDERS.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- PRESTRESSING STEEL SHALL BE LOW-RELAXATION SEVEN WIRE STRANDS, SIZE DESIGNATION 12.7, GRADE 1860.
- PRESTRESSING AND REINFORCING DETAILS SHOWN APPLY TO ALL GIRDERS.
- BARS 101 MAY BE SHIFTED TO AVOID END DIAPHRAGM HOLES.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING GPHRP/060/S1/B01/D019.
- CONFORM TO TECHNICAL SPECIFICATIONS ARTICLE 553 FOR PRESTRESSED CONCRETE WORKS.



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
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www.ch2m.com



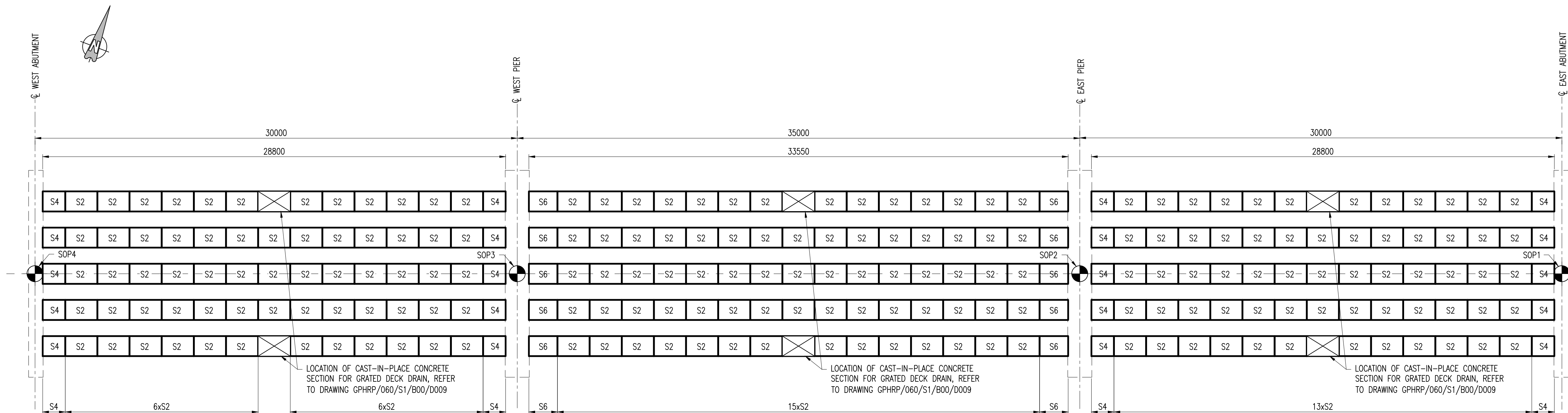
Project
George Price Highway
Rehabilitation Project

Drawing Title
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
PRESTRESSED GIRDER DETAILS
TYPE 'B'

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

Drawing No.
GPHRP/060/S1/B01/D021
Revision
C

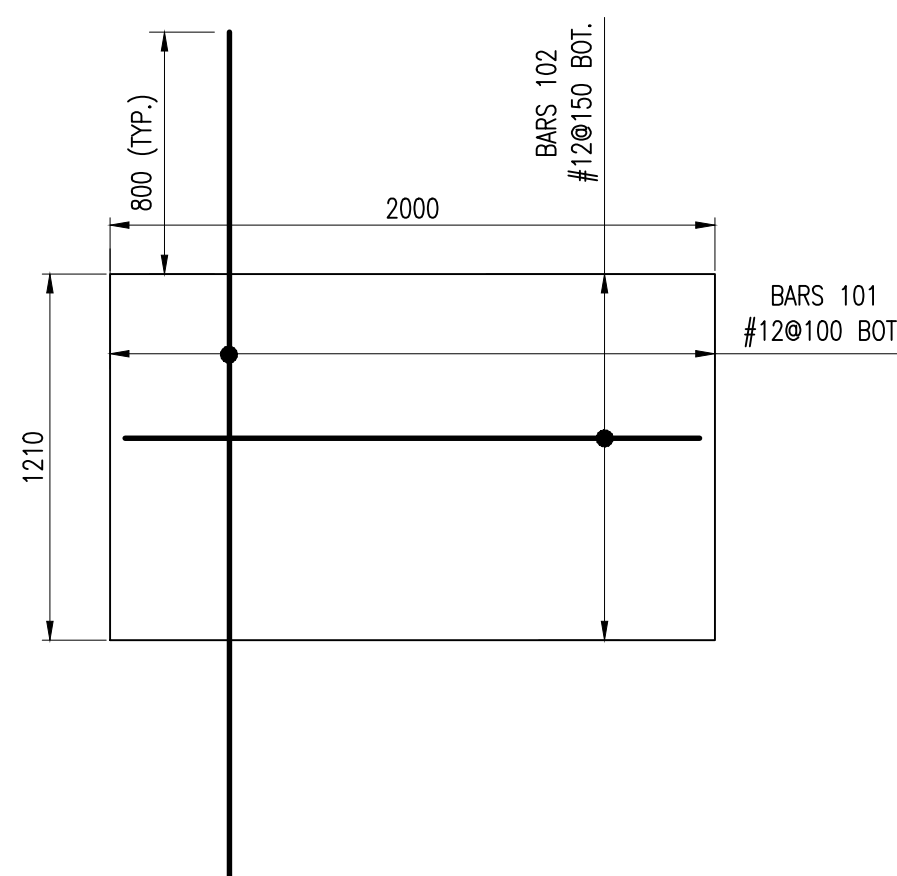
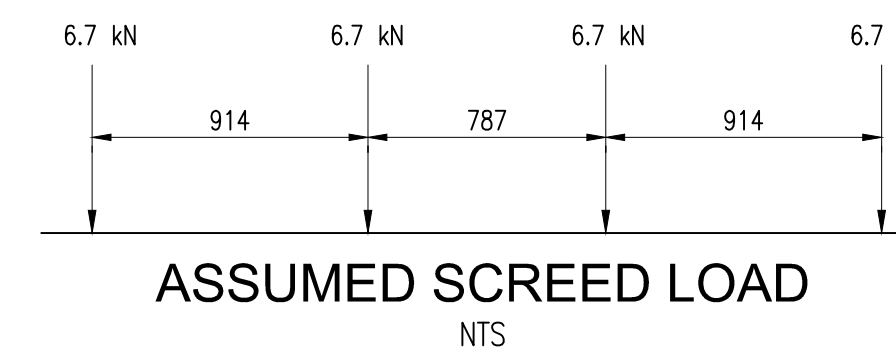
Drawing Scale: As noted on A1
Plot Scale: 1 : 1



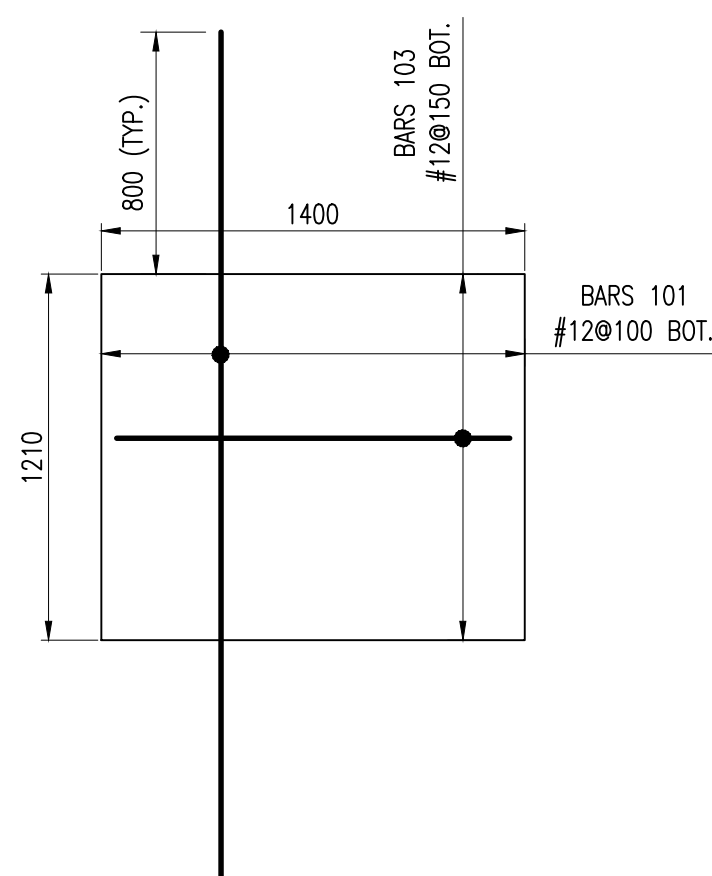
PLAN
SCALE 1:150

REINFORCING SCHEDULE

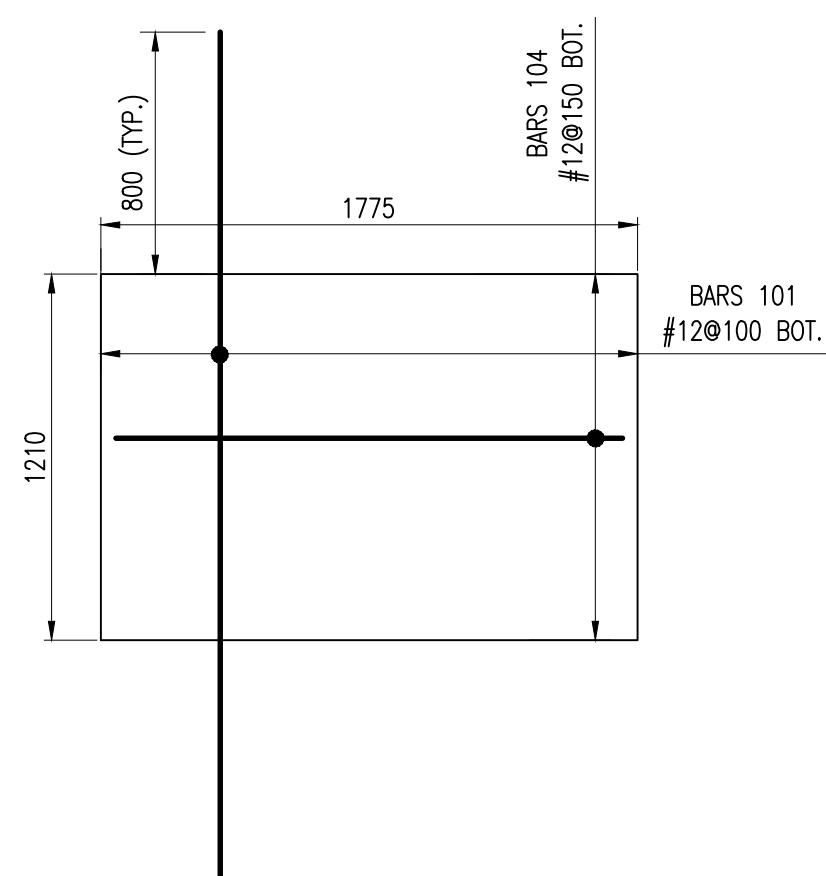
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102	12	1	150	1900
103	12	1	150	1300
104	12	1	150	1675



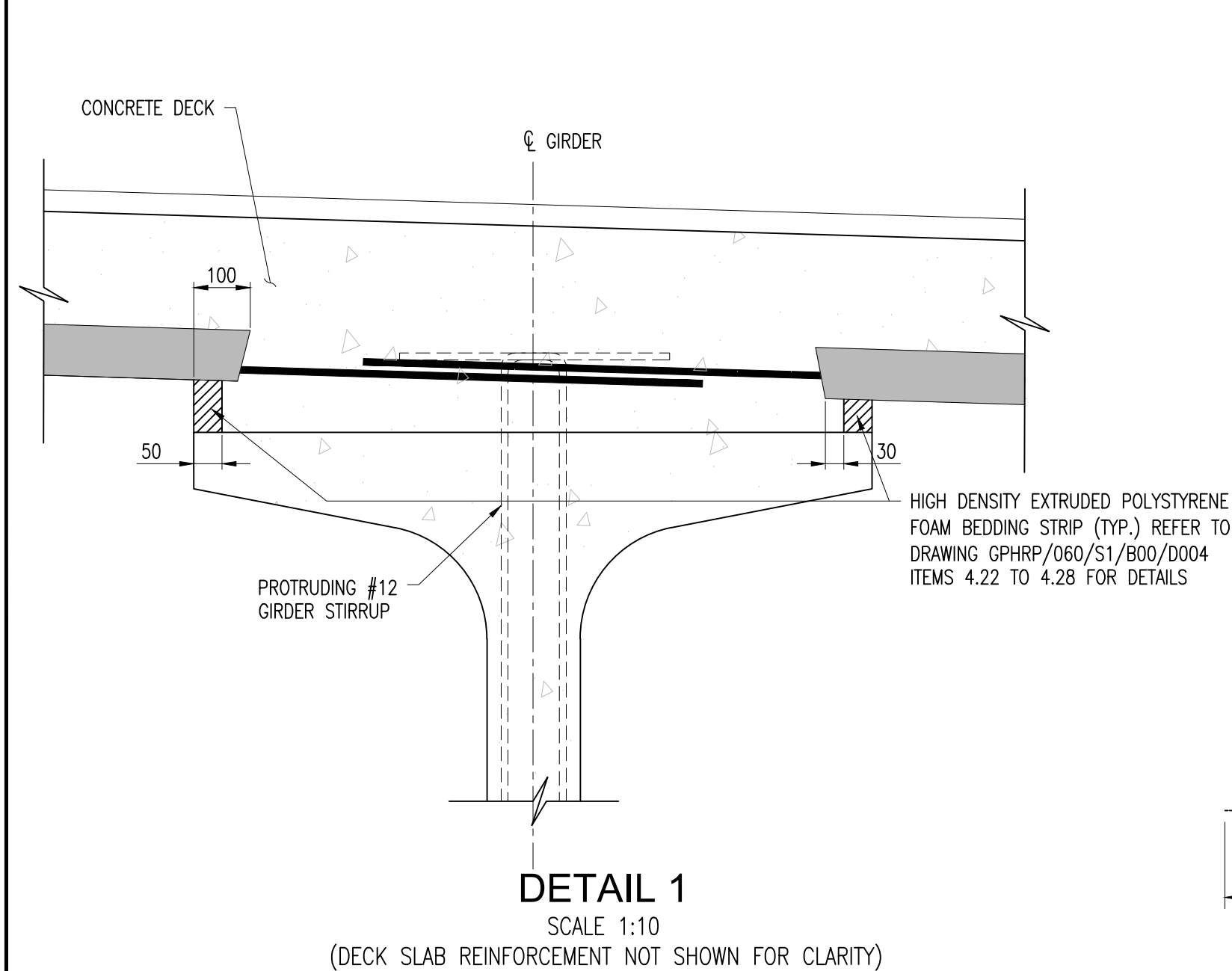
PLAN - S2 (199 REQUIRED)
SCALE 1:25



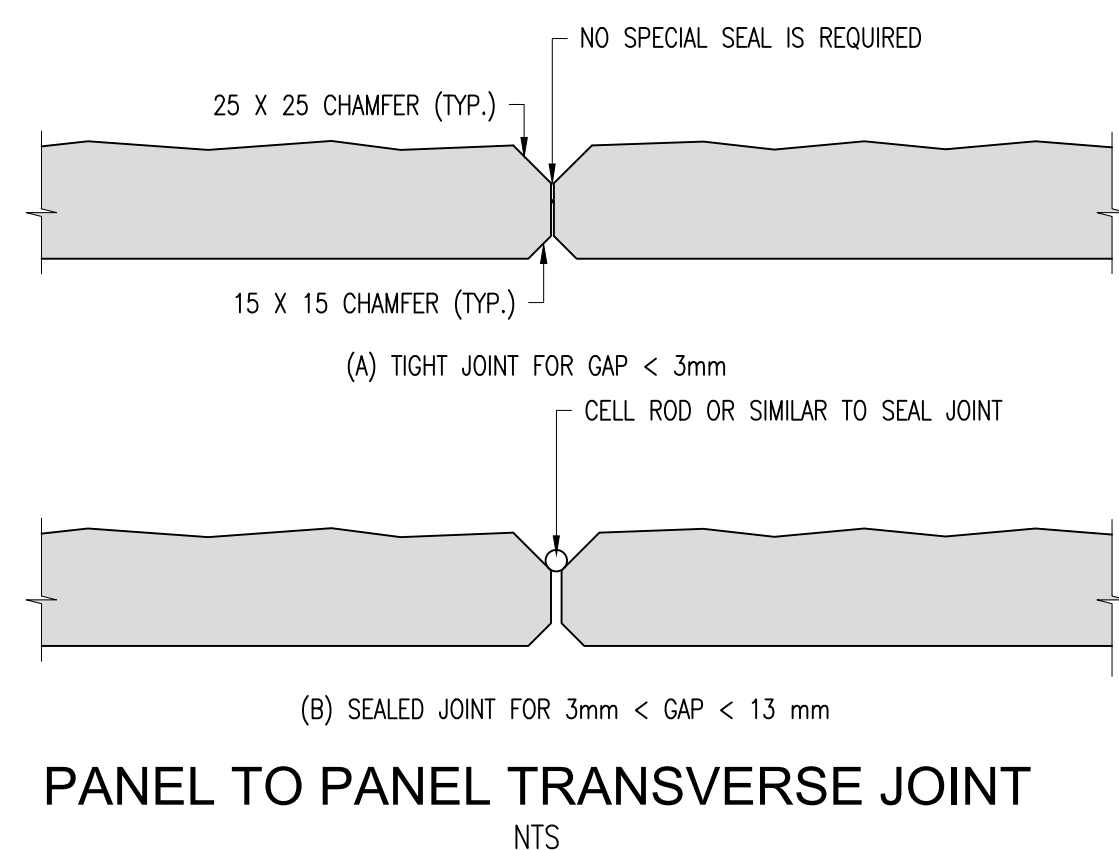
PLAN - S4 (20 REQUIRED)
SCALE 1:25



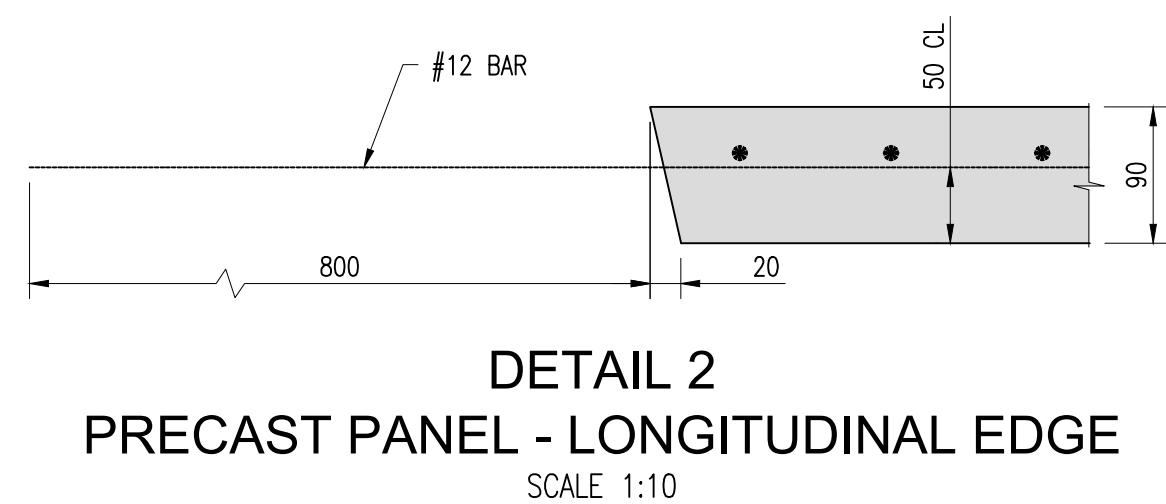
PLAN - S6 (10 REQUIRED)
SCALE 1:25



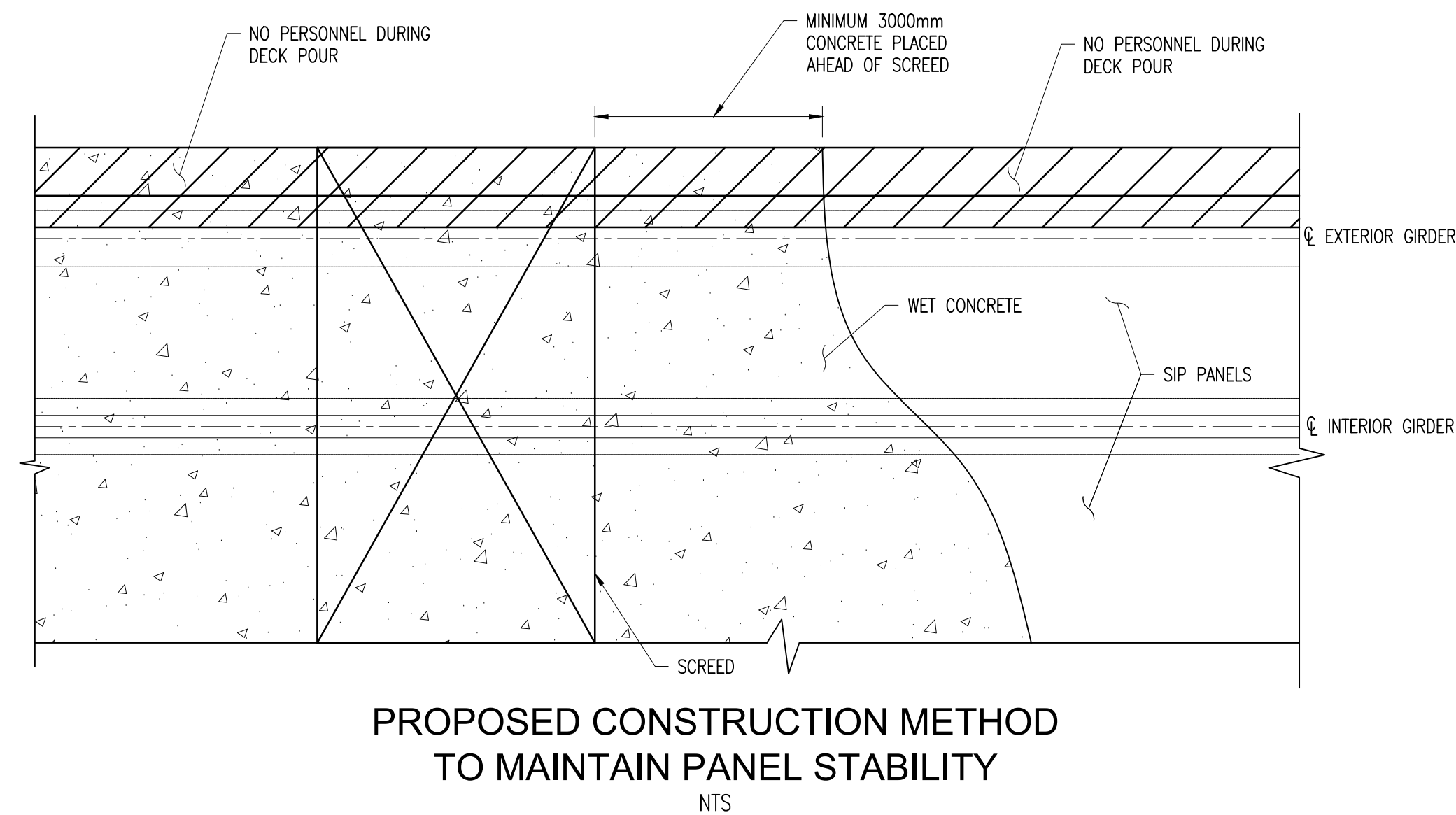
DETAIL 1
SCALE 1:10
(DECK SLAB REINFORCEMENT NOT SHOWN FOR CLARITY)



PANEL TO PANEL TRANSVERSE JOINT
NTS

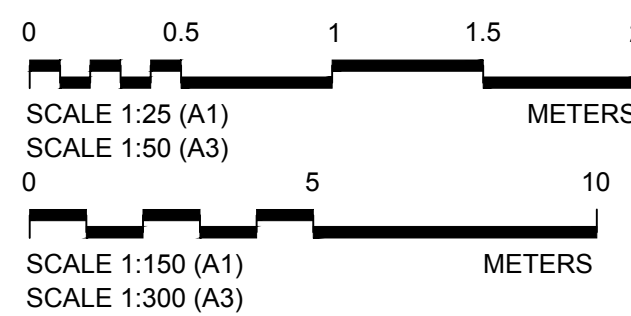


DETAIL 2
PRECAST PANEL - LONGITUDINAL EDGE
SCALE 1:10



PROPOSED CONSTRUCTION METHOD
TO MAINTAIN PANEL STABILITY
NTS

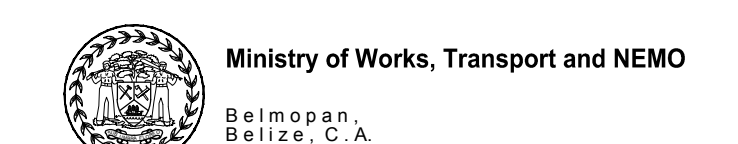
- Notes:
- FOR GENERAL NOTES, SEE DRAWINGS GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D010.
 - TOP SURFACE OF PRECAST DECK PANEL SHALL BE CLEAN, FREE OF LAITANCE AND INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 6mm. DIRECTION OF RAKING SHALL BE PARALLEL TO LONGITUDINAL REINFORCEMENT.
 - SOFFIT OF PRECAST DECK PANELS SHALL RECEIVE A CLASS 2 FINISH AS PER GPHRP/060/S1/B00/D004 SECTION 4.2 AND TECHNICAL SPECIFICATIONS ARTICLE 552.16.
 - MINIMUM ALLOWABLE DIMENSIONAL TOLERANCE FOR FABRICATION OF THE PRECAST DECK PANELS SHALL BE OF THE FOLLOWING:
THICKNESS ± 3 mm OR -0 mm
LENGTH AND WIDTH ± 3 mm
SQUARE ENDS (DEVIATION FOR SQUARE) ± 6 mm.
 - WHEN CASTING THE DECK, PLACE CONCRETE FIRST OVER THE GIRDERS IN CONTINUOUS STRIPS A MINIMUM OF THREE PANEL LENGTHS AHEAD OF THE REST OF THE CONCRETE. CAREFULLY VIBRATE THE CONCRETE OVER THE GIRDERS SO THAT CONCRETE COMPLETELY FILLS THE AREA UNDER THE DECK PANEL OVERHANGS. THEN PLACE AND VIBRATE THE REMAINING DECK CONCRETE.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 35MPa FOR PRECAST DECK PANELS.



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	NOTE 7 AMENDED
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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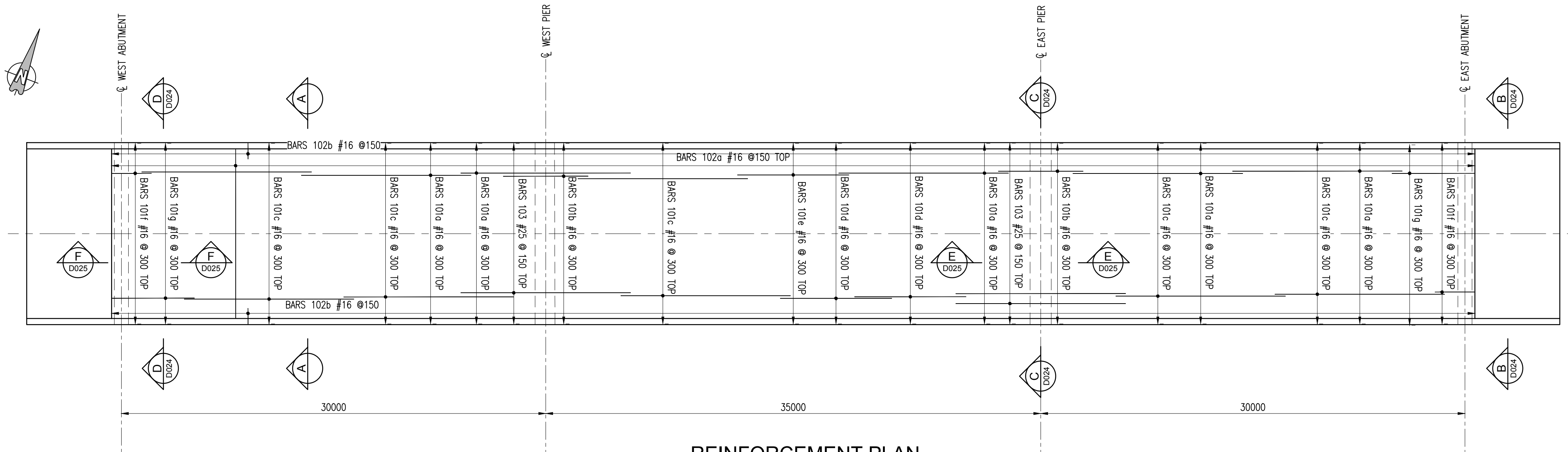
Project
George Price Highway
Rehabilitation Project

Drawing Title
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
PRECAST DECK PANEL
LAYOUT & DETAILS

Drawn by: KMJ Date: JULY 11, 2016
Checked by: JSP Date: JULY 11, 2016
Authorised by: MS Date: JULY 11, 2016

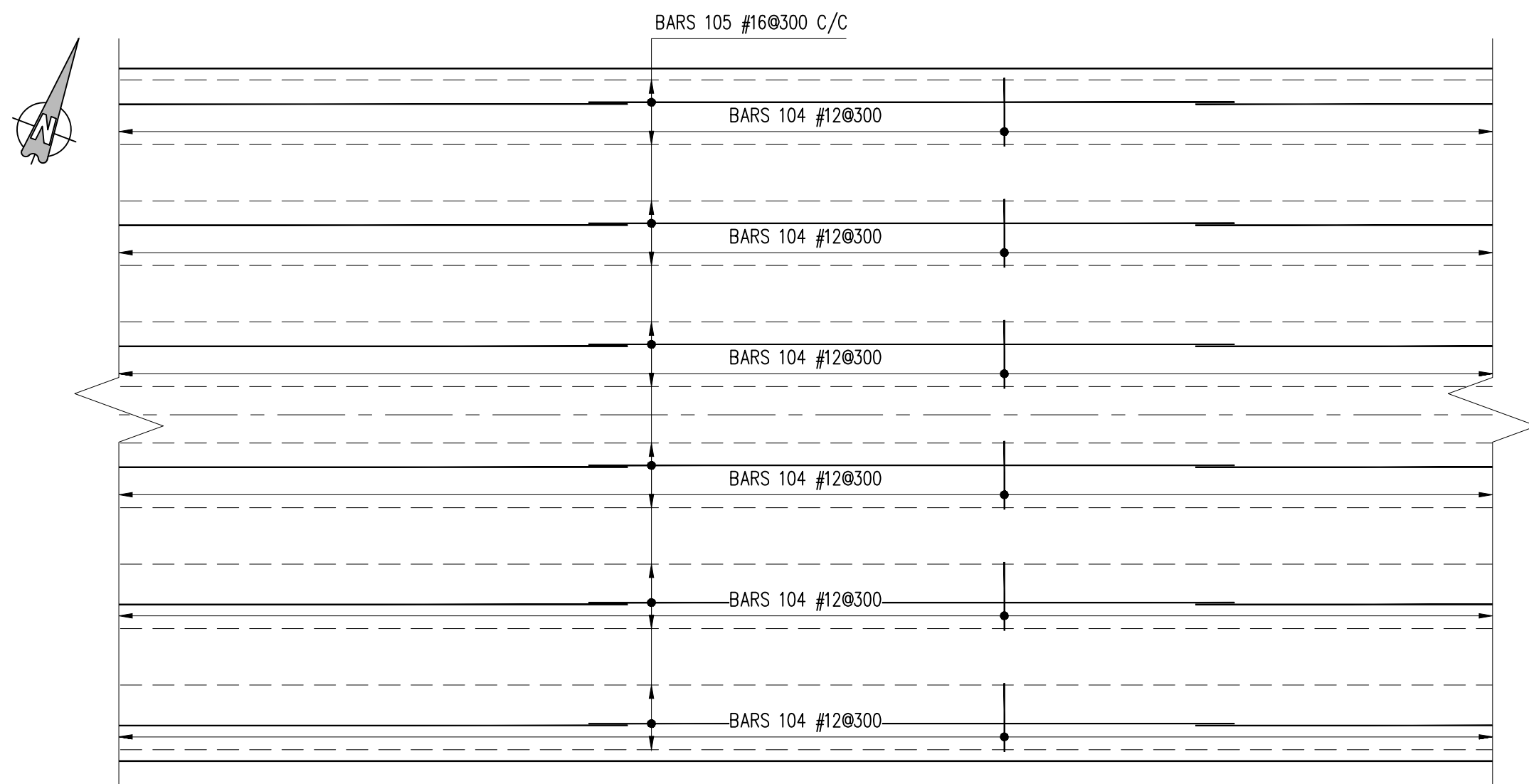
Drawing No. **GPHRP/060/S1/B01/D022** Revision **C**

Drawing Scale: As noted on A1
Plot Scale: 1 : 1



REINFORCEMENT PLAN

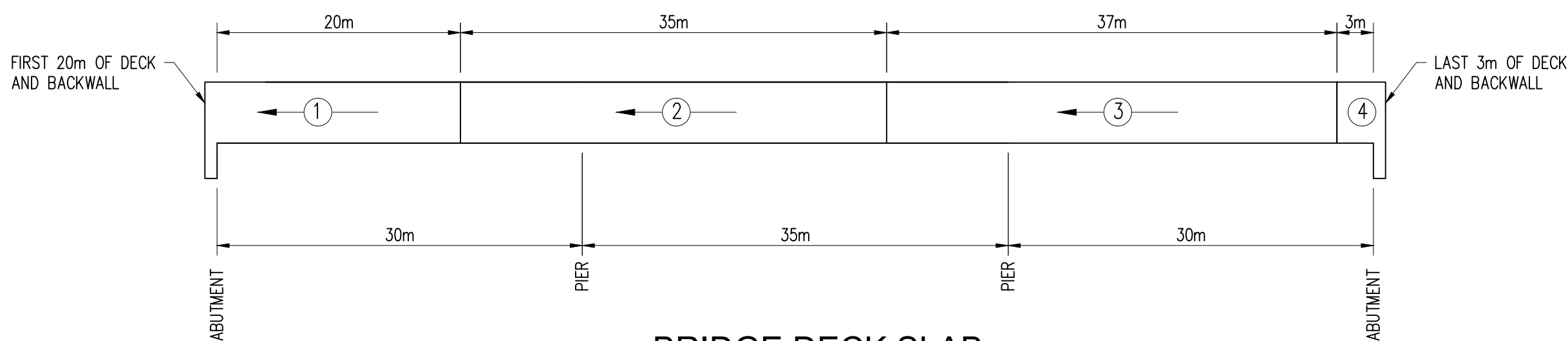
SCALE 1:200
(SHOWING TOP REINFORCEMENT)



NOTE:
BARS 104 & 105 CONTINUES TO THE
EASTERN & WESTERN EDGES OF DECK
SLAB WITH 50mm CONCRETE COVER.

PART REINFORCEMENT PLAN

SCALE 1:100
(SHOWING BOTTOM REINFORCEMENT)



BRIDGE DECK SLAB CASTING SEQUENCE

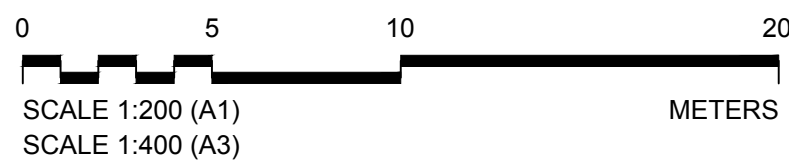
SCALE N.T.S

Notes:

- FOR GENERAL NOTES, SEE DRAWINGS GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D010.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm UNLESS NOTED OTHERWISE.
- CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH GPHRP/060/S1/B00/D004 SECTION 4.2 AND TECHNICAL SPECIFICATIONS ARTICLE 552.16.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 35MPa FOR DECK SLAB.
- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM SPECIFICATION A515, GRADE 60 ($F_y = 414 \text{ MPa}$).
- ALL DETAILING OF REINFORCEMENT STEEL, SPLICES, LAPS, ETC. SHALL BE IN ACCORDANCE WITH STANDARD AS SPECIFIED IN AASHTO LRFD 5TH EDITION AND GPHRP/060/S1/B00/D004 SECTION 4.9. SEE DRAWING GPHRP/060/S1/B00/D003 FOR SPLICE LENGTH.
- MINIMUM COVER TO REINFORCING STEEL SHALL BE:
 - TOP OF DECK SLAB 50mm
 - BOTTOM OF DECK SLAB 50mm
 - GENERAL 50mm OR AS NOTED
- PARAPET WALL (BARRIERS) SHALL BE FORMED AND CONCRETE PLACED ONLY AFTER THE CONCRETE DECK SLAB HAS ATTAINED A MINIMUM CYLINDER COMPRESSIVE STRENGTH OF 20 MPa.
- ERECTED PRE-STRESSED GIRDERS SHALL BE SURVEYED AT A MINIMUM OF 2m SPACING PRIOR TO THE BRIDGE DECK FORMING IN ORDER THAT CAMBER OF INDIVIDUAL GIRDERS AS WELL AS THE DEFLECTION OF THE GIRDERS DUE TO THE WEIGHT OF WET CONCRETE CAN BE ACCOMMODATED BY VARYING HAUNCH THICKNESS.
- WHEN CASTING THE DECK, PLACE CONCRETE FIRST OVER THE GIRDERS IN CONTINUOUS STRIPS A MINIMUM OF THREE PANEL LENGTHS AHEAD OF THE REST OF THE CONCRETE. CAREFULLY VIBRATE THE CONCRETE OVER THE GIRDERS SO THAT CONCRETE COMPLETELY FILLS THE AREA UNDER THE DECK PANEL OVERHANGS. THEN PLACE AND VIBRATE THE REMAINING DECK CONCRETE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWINGS GPHRP/060/S1/B01/D024 AND GPHRP/060/S1/B01/D025.

KEY

INDICATES POUR NUMBER
AND DIRECTION OF POUR



100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

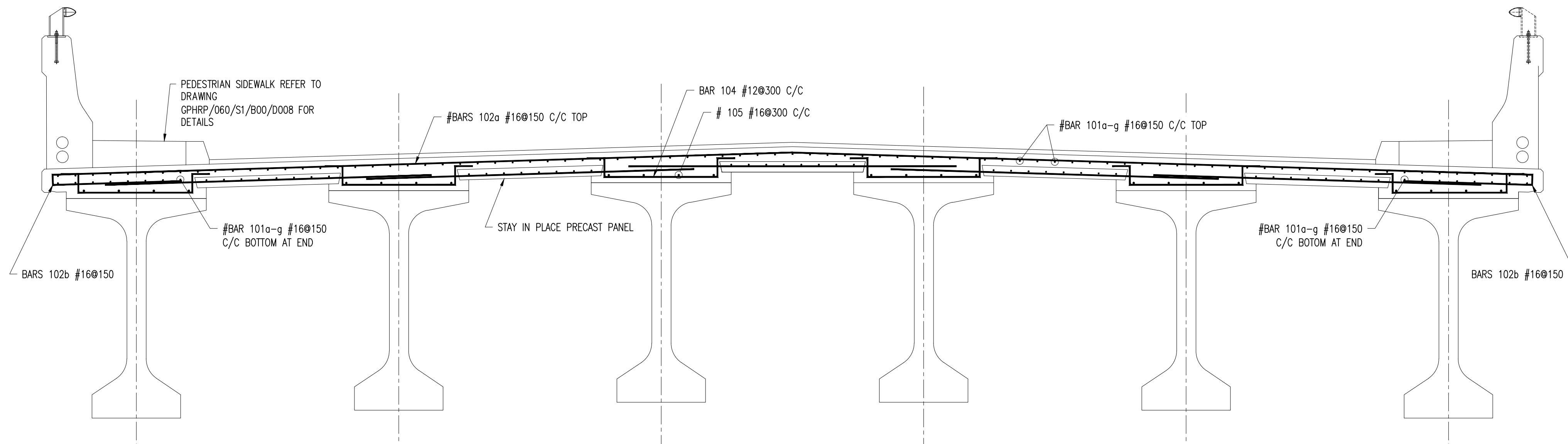
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
DECK REINFORCEMENT & DETAILS
SHEET 1 OF 3

Drawn by KMJ	Date: JULY 11, 2016
Checked by JSP	Date: JULY 11, 2016
Authorised by MS	Date: JULY 11, 2016

Drawing No.	Revision
GPHRP/060/S1/B01/D023	C

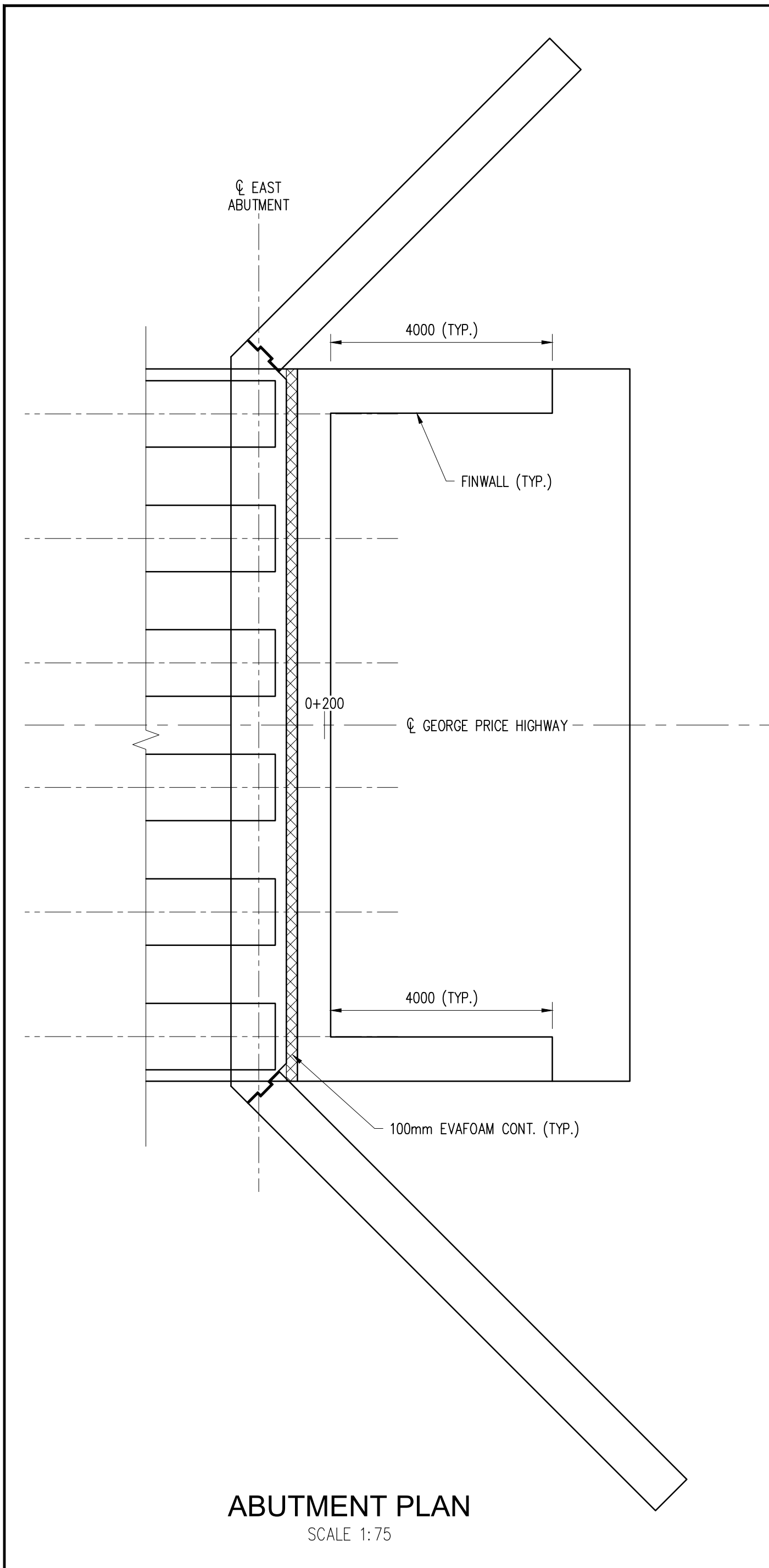
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Plot Scale: 1 : 1

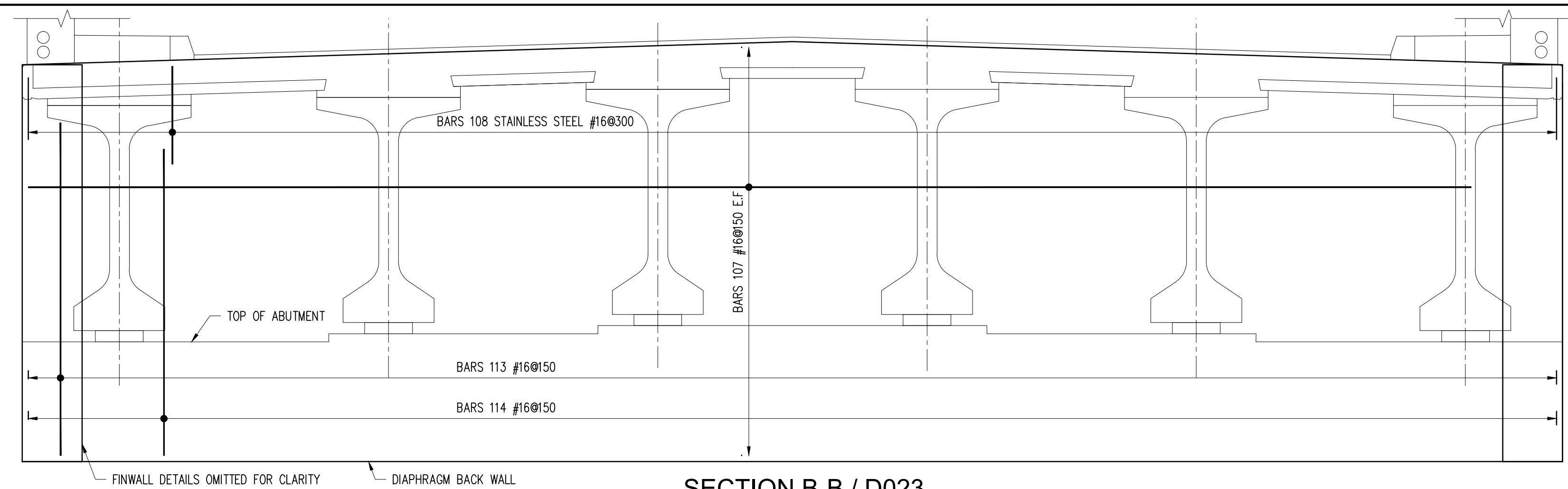


SECTION A-A

SCALE 1:25

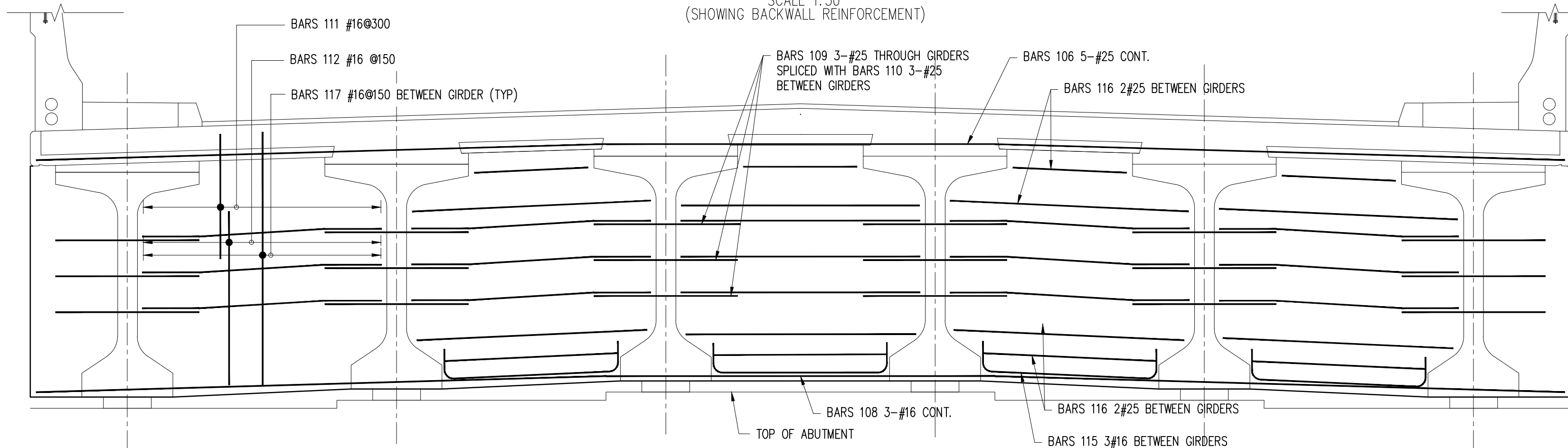


ABUTMENT PLAN
SCALE 1:75



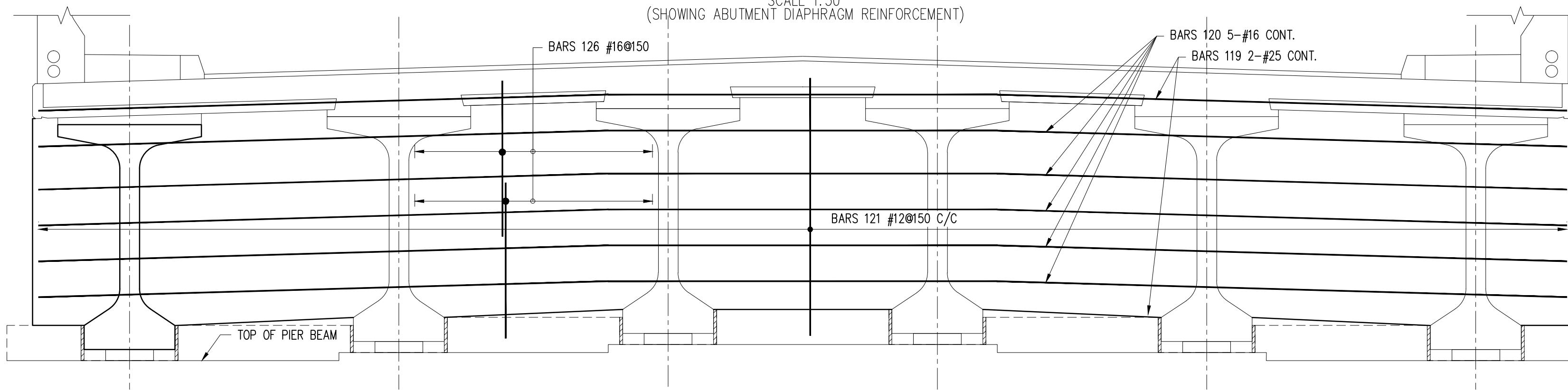
SECTION B-B / D023

SCALE 1:30
(SHOWING BACKWALL REINFORCEMENT)



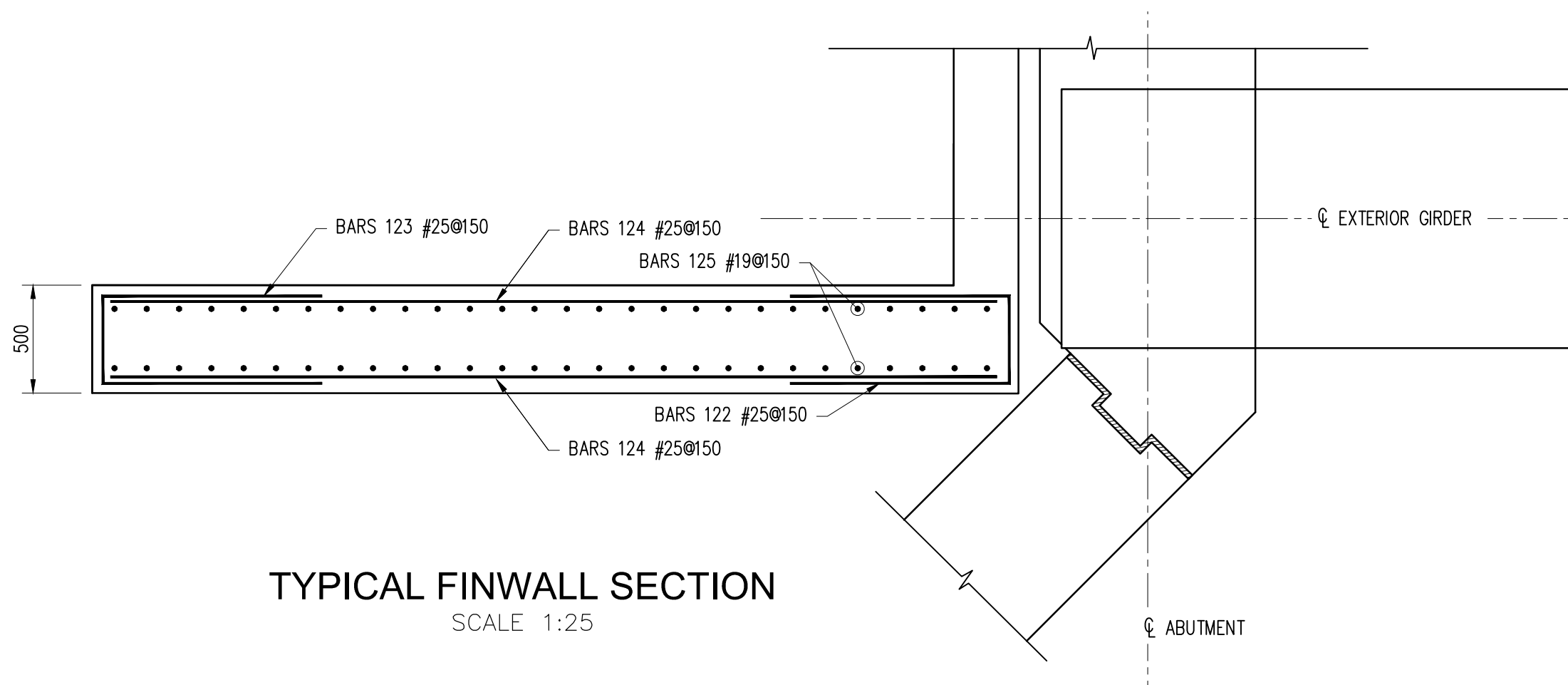
SECTION D-D / D023

SCALE 1:30
(SHOWING ABUTMENT DIAPHRAGM REINFORCEMENT)



SECTION C-C / D023

SCALE 1:30
(SHOWING PIER DIAPHRAGM REINFORCEMENT)



TYPICAL FINWALL SECTION
SCALE 1:25

- Notes:
- FOR GENERAL NOTES, SEE DRAWINGS GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D010.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm UNLESS NOTED OTHERWISE.
 - CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH GPHRP/060/S1/B00/D004 SECTION 4.2 AND TECHNICAL SPECIFICATIONS ARTICLE 552.16.
 - CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 35MPa FOR DIAPHRAGMS.
 - ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM SPECIFICATION A515, GRADE 60 ($F_y = 414 \text{ MPa}$).
 - ALL DETAILING OF REINFORCEMENT STEEL, SPLICES, LAPS, ETC. SHALL BE IN ACCORDANCE WITH STANDARD AS SPECIFIED IN AASHTO LRFD 5TH EDITION AND GPHRP/060/S1/B00/D004 SECTION 4.9. SEE DRAWING GPHRP/060/S1/B00/D003 FOR SPLICE LENGTH.
 - MINIMUM COVER TO REINFORCING STEEL SHALL BE:
 - TOP OF DECK SLAB 50mm
 - BOTTOM OF DECK SLAB 50mm
 - GENERAL 50mm OR AS NOTED
 - PARAPET WALL (BARRIERS) SHALL BE FORMED AND CONCRETE PLACED ONLY AFTER THE CONCRETE DECK SLAB HAS ATTAINED A MINIMUM CYLINDER COMPRESSIVE STRENGTH OF 20 MPa.
 - ERECTED PRESTRESSED GIRDERS SHALL BE SURVEYED AT A MINIMUM OF 2m SPACING PRIOR TO THE BRIDGE DECK FORMING IN ORDER THAT CAMBER OF INDIVIDUAL GIRDERS AS WELL AS THE DEFLECTION OF THE GIRDERS DUE TO THE WEIGHT OF WET CONCRETE CAN BE ACCOMMODATED BY VARYING HAUNCH THICKNESS.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWINGS GPHRP/060/S1/B01/D023 & GPHRP/060/S1/B01/D025.

0 0.5 1 2
SCALE 1:20 (A1) METERS
SCALE 1:40 (A3)

0 0.5 1 1.5 2
SCALE 1:25 (A1) METERS
SCALE 1:50 (A3)

0 1 2
SCALE 1:30 (A1) METERS
SCALE 1:60 (A3)

100% FINAL DESIGN

C	KMJ	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

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www.ch2m.com

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Project

George Price Highway
Rehabilitation Project

Drawing Title

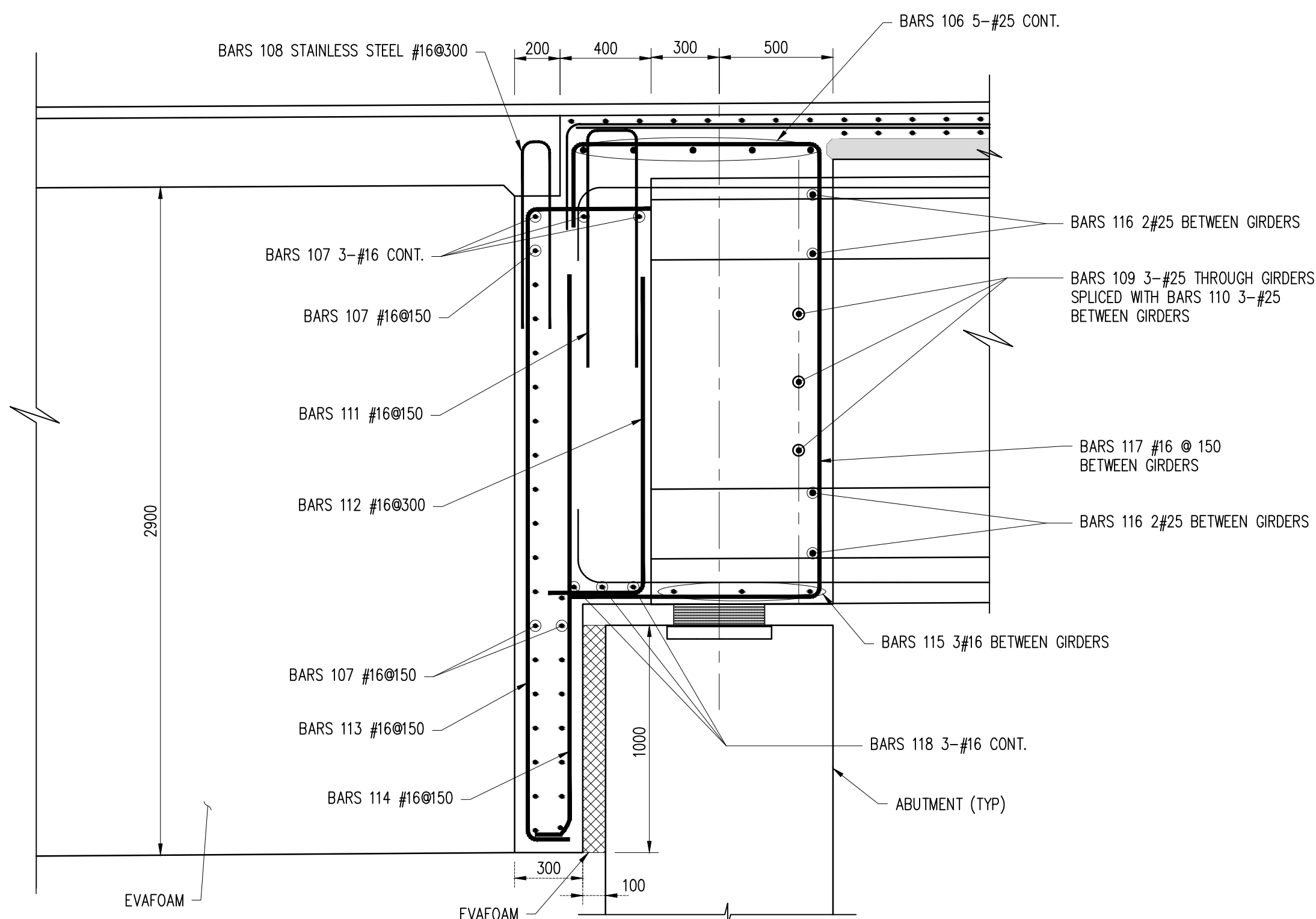
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
DECK REINFORCEMENT & DETAILS
SHEET 2 OF 3

Drawn by KMJ	Date: JULY 11, 2016
Checked by JSP	Date: JULY 11, 2016
Authorised by MS	Date: JULY 11, 2016

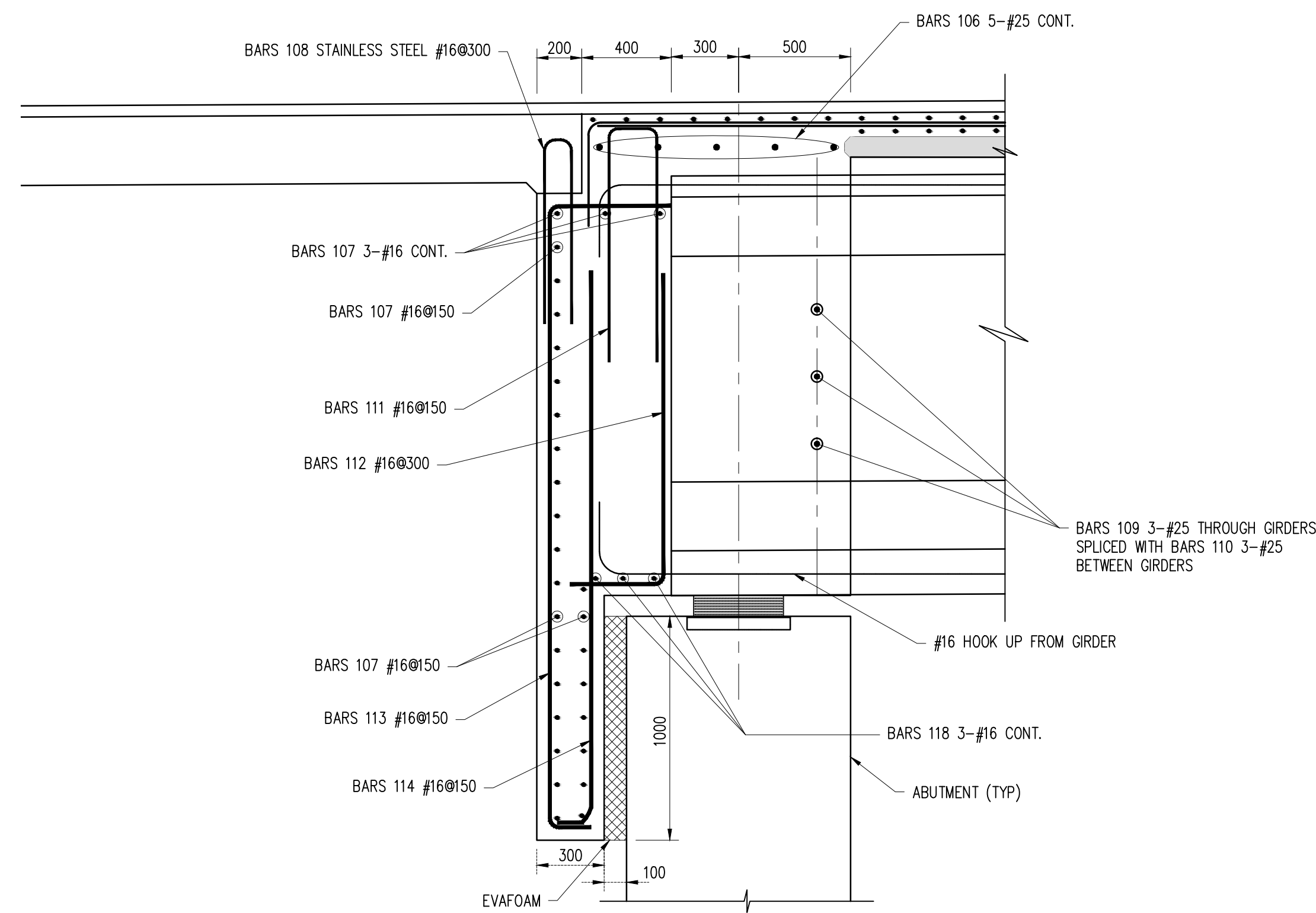
Drawing No.	Revision
GPHRP/060/S1/B01/D024	C

Drawing Scale: As noted on A1

Plot Scale: 1 : 1



TYPICAL SECTION BETWEEN GIRDER AT ABUTMENT
SECTION F-F/D023
SCALE 1:20

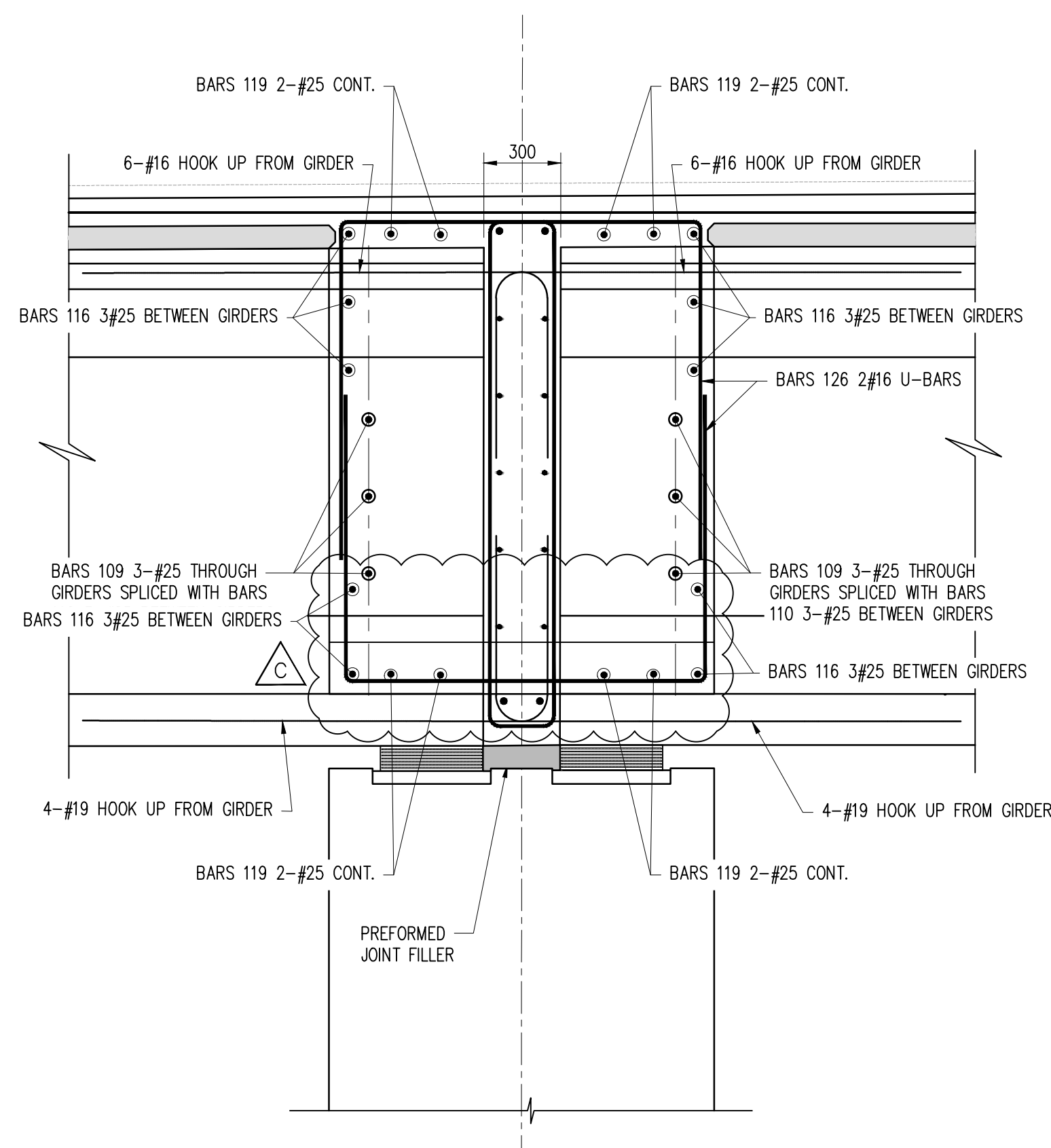


TYPICAL SECTION THROUGH GIRDER AT ABUTMENT
SECTION F-F/D023
SCALE 1:20

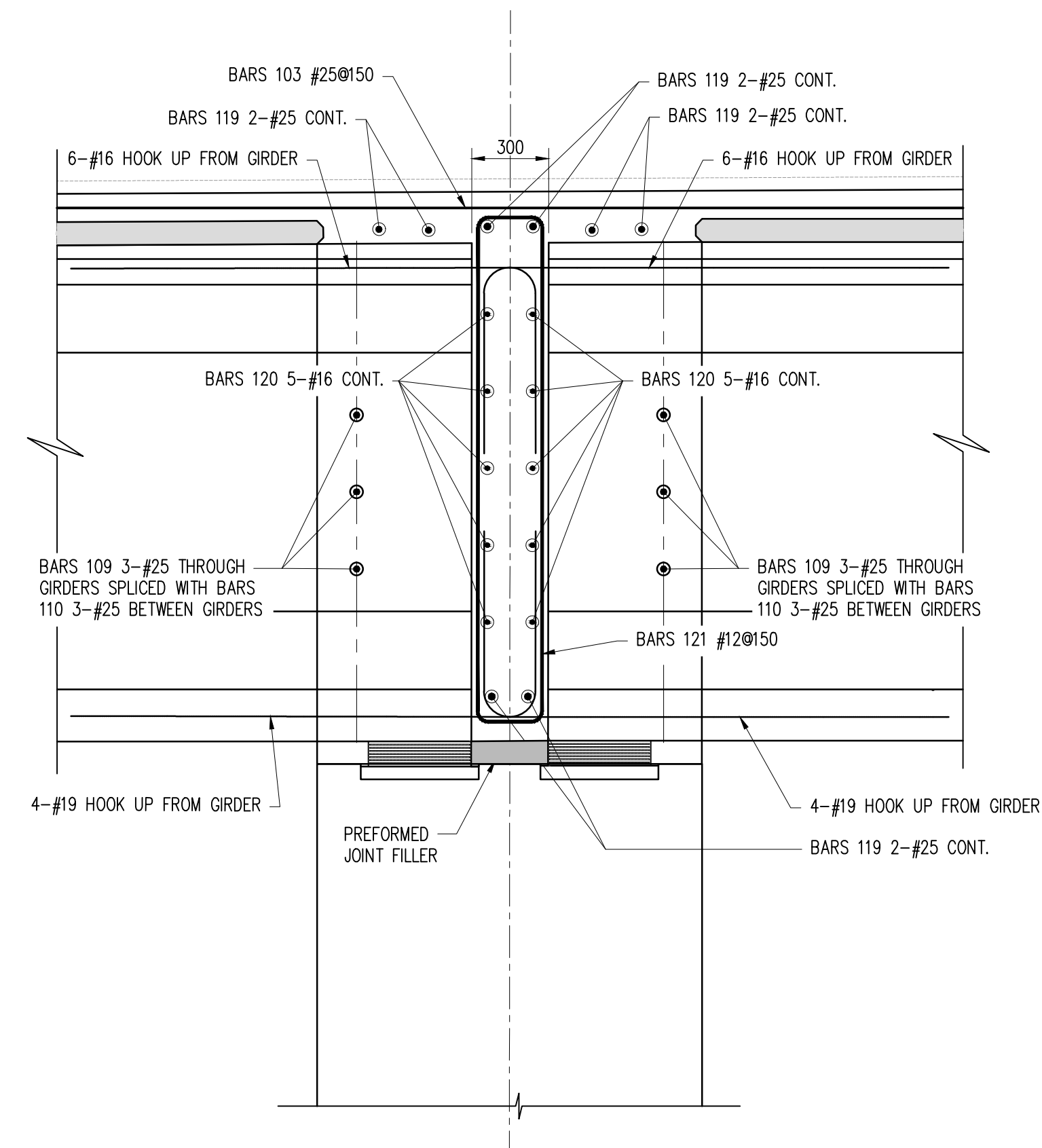
REINFORCING SCHEDULE

BAR	SIZE [mm]	TYPE	SPACING [mm]	DIM "A" [mm]	DIM "B" [mm]	DIM "C" [mm]	DIM "D" [mm]	DIM "E" [mm]
101a	16	1	300		12000			
101b	16	1	300		6000			
101c	16	1	300		12000			
101d	16	1	300		7880			
101e	16	1	300		7880			
101f	16	1	300		2770			
101g	16	1	300		5810			
102a	16	1	150		12000			
102b	16	11	150		85	1105	1105	
103	25	1	150		12000			
104	12	6	300		160	150	988	150
105	16	1	300		12000			
106	25	1	-		12000			
107	16	1	150		12000			
108*	16	11	300		100	900	900	
109	25	1	-		2000			
110	25	1	-		2000			
111	16	11	150		200	1050	1050	
112	16	10	300		1400	400		
113	16	11	150		2770	200	540	
114	16	10	150		2450	200		
115	16	11	-		1450	250	250	
116	25	1	-		1450-2000			
117	19	37	-		1990	1080	1090	365
118	16	1	-		12000			
119	25	1	-		12000			
120	16	1	-		12000			
121	12	4	150	200	1965	250		
122	25	11	150		375	1520	1520	
123	25	11	150		375	1270	1270	
124	25	1	150		4150			
125	19	1	150		2900			
126	16	11	150		1400	1300	1300	

* - DENOTES STAINLESS STEEL



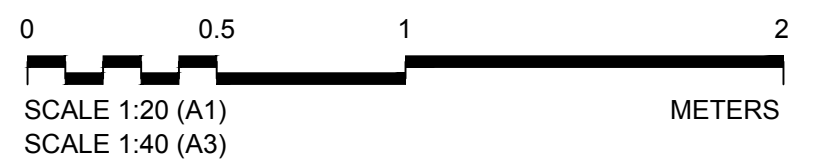
TYPICAL SECTION BETWEEN GIRDER AT PIERS
SECTION E-E/D023
SCALE 1:20



TYPICAL SECTION THROUGH GIRDER AT PIERS
SECTION E-E/D023
SCALE 1:20

Notes:

- FOR GENERAL NOTES, SEE DRAWINGS GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D010.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm UNLESS NOTED OTHERWISE.
- CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH GPHRP/060/S1/B00/D004 SECTION 4.2 AND TECHNICAL SPECIFICATIONS ARTICLE 552.16.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 35MPa FOR DIAPHRAGMS.
- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM SPECIFICATION A515, GRADE 60 ($F_y = 414 \text{ MPa}$).
- ALL DETAILING OF REINFORCEMENT STEEL, SPLICES, LAPS, ETC. SHALL BE IN ACCORDANCE WITH STANDARD AS SPECIFIED IN AASHTO LRFD 5TH EDITION AND GPHRP/060/S1/B00/D004 SECTION 4.9. SEE DRAWING GPHRP/060/S1/B00/D003 FOR SPLICE LENGTH.
- MINIMUM COVER TO REINFORCING STEEL SHALL BE:
 - TOP OF DECK SLAB 50mm
 - BOTTOM OF DECK SLAB 50mm
 - GENERAL 50mm OR AS NOTED
- PARAPET WALL (BARRIERS) SHALL BE FORMED AND CONCRETE PLACED ONLY AFTER THE CONCRETE DECK SLAB HAS ATTAINED A MINIMUM CYLINDER COMPRESSIVE STRENGTH OF 20 MPa.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWINGS GPHRP/060/S1/B01/D023 & GPHRP/060/S1/B01/D024.



100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
C	KMJ	JSP	MS	19.10.16	PIER DIAPHRAGM AMENDED
B	KMJ	JSP	MS	05.10.16	100% DESIGN ISSUE & CLIENT COMMENTS ADDRESSED
A	KMJ	JSP	MS	11.07.16	90% DESIGN ISSUE

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8683
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Project

George Price Highway
Rehabilitation Project

Drawing Title

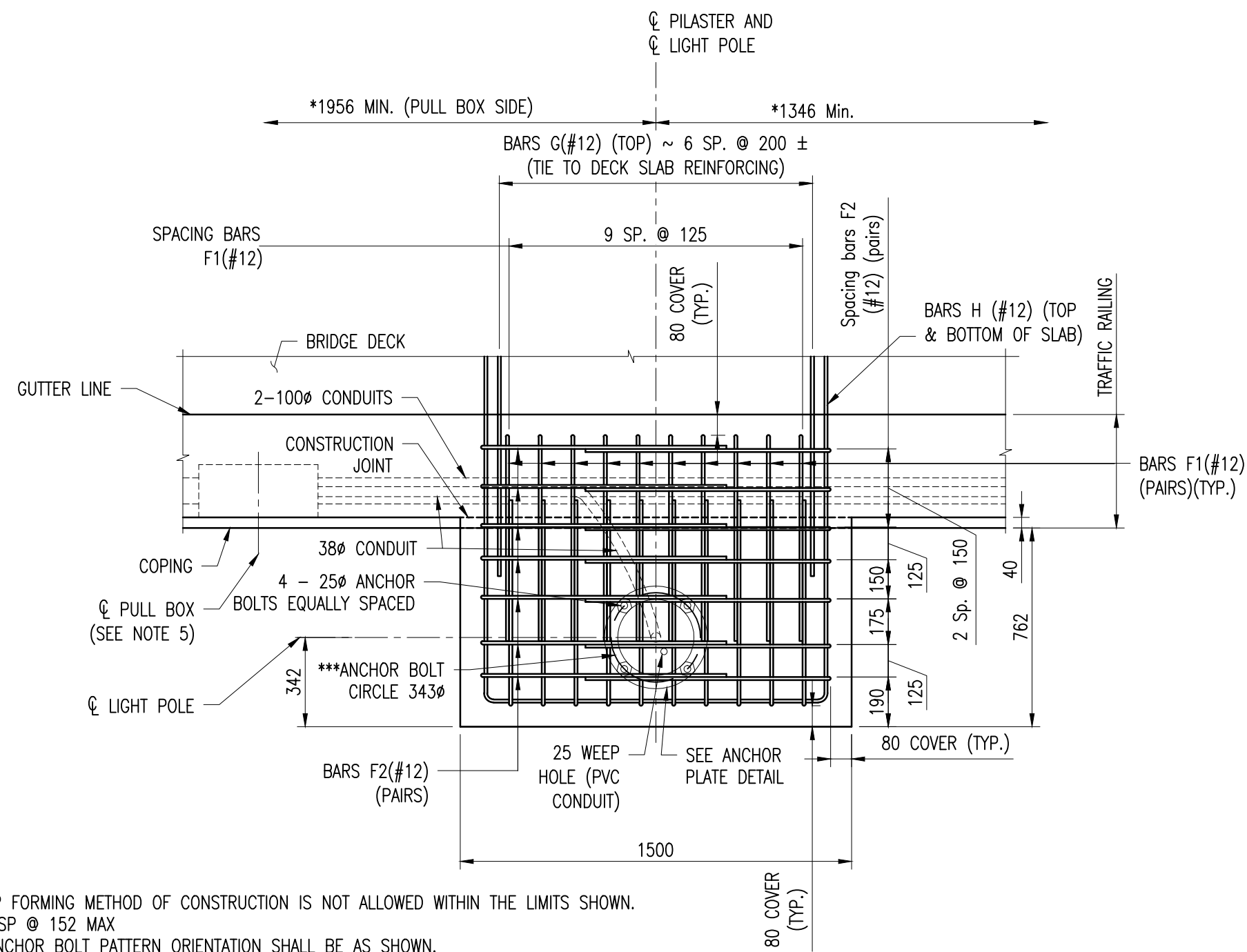
SECTION 1
ROARING CREEK BRIDGE
AT STATION 0+248.69
DECK REINFORCEMENT & DETAILS
SHEET 3 OF 3

Drawn by KMJ	Date: JULY 11, 2016
Checked by JSP	Date: JULY 11, 2016
Authorised by MS	Date: JULY 11, 2016

Drawing No. **GPHRP/060/S1/B01/D025** Revision **C**

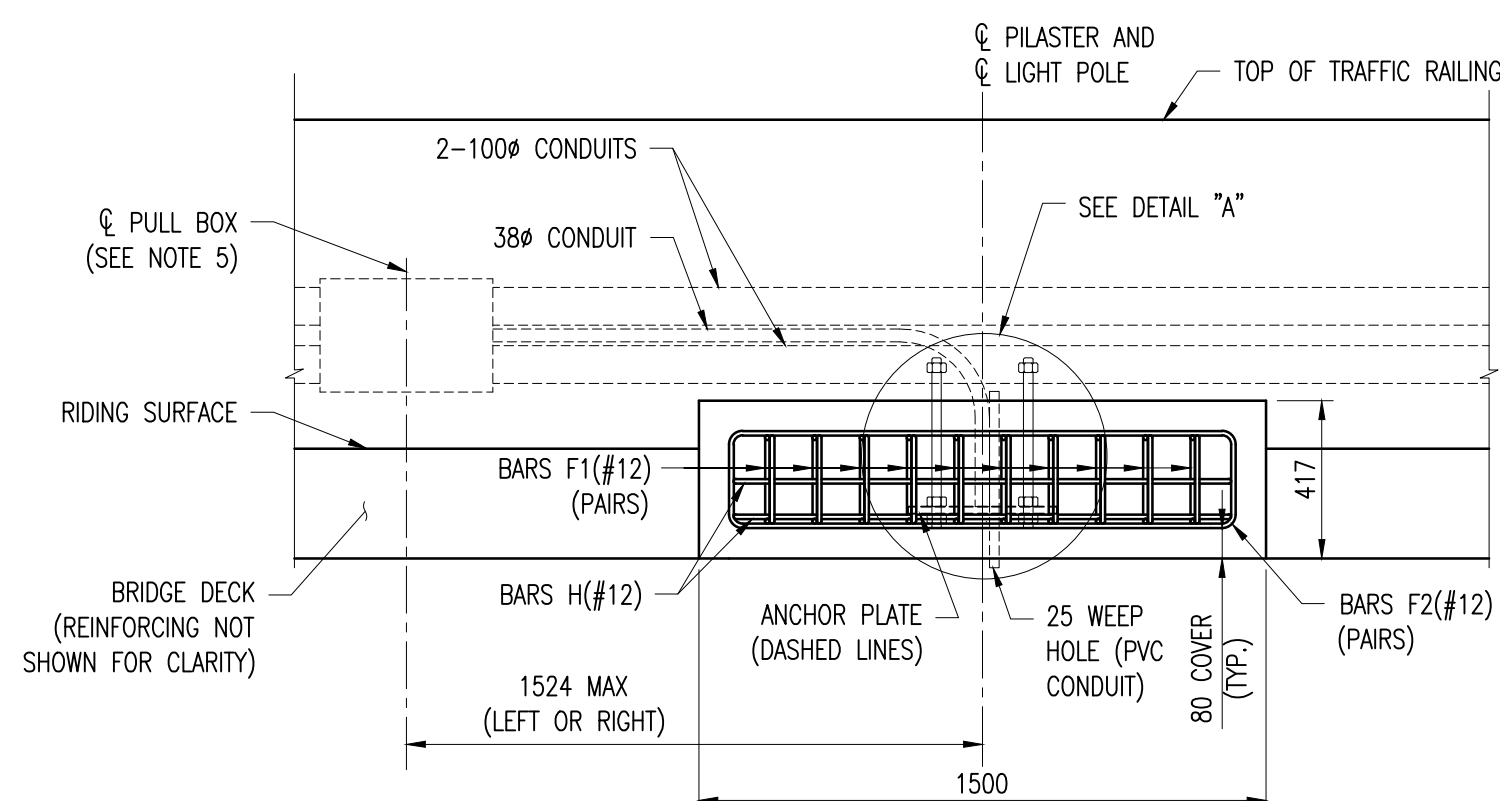
Drawing Scale: As noted on A1

Plot Scale: 1 : 1

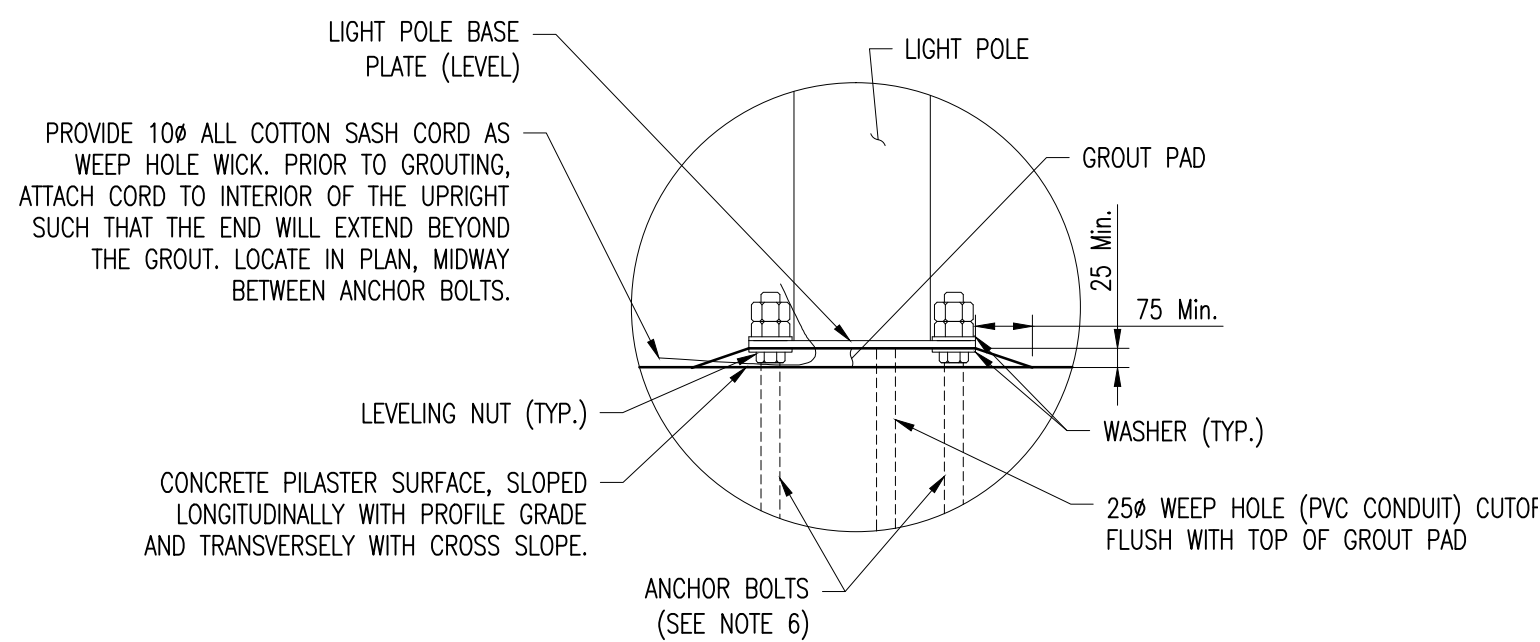


* SLIP FORMING METHOD OF CONSTRUCTION IS NOT ALLOWED WITHIN THE LIMITS SHOWN.
 ** 2 SP @ 152 MAX
 *** ANCHOR BOLT PATTERN ORIENTATION SHALL BE AS SHOWN.

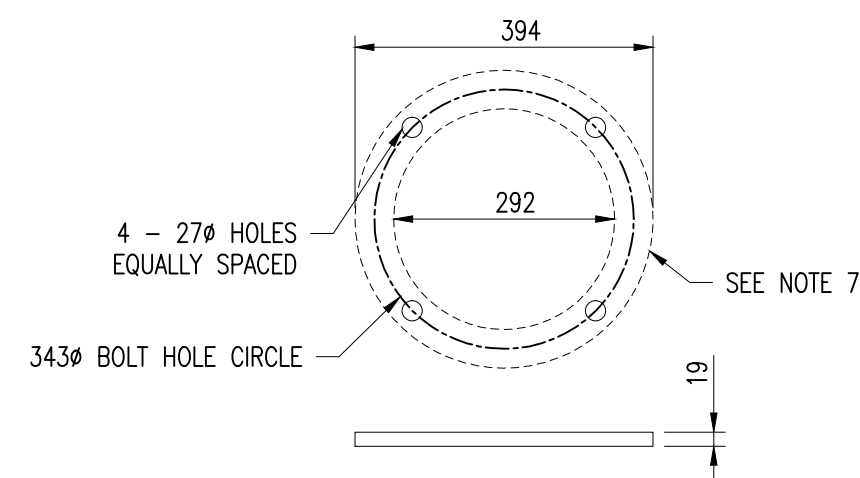
PLAN VIEW
 (Anchor Plate not shown for clarity)
 Scale 1:20



ELEVATION VIEW
 (Bars G(#12) not shown for clarity)
 Scale 1:20



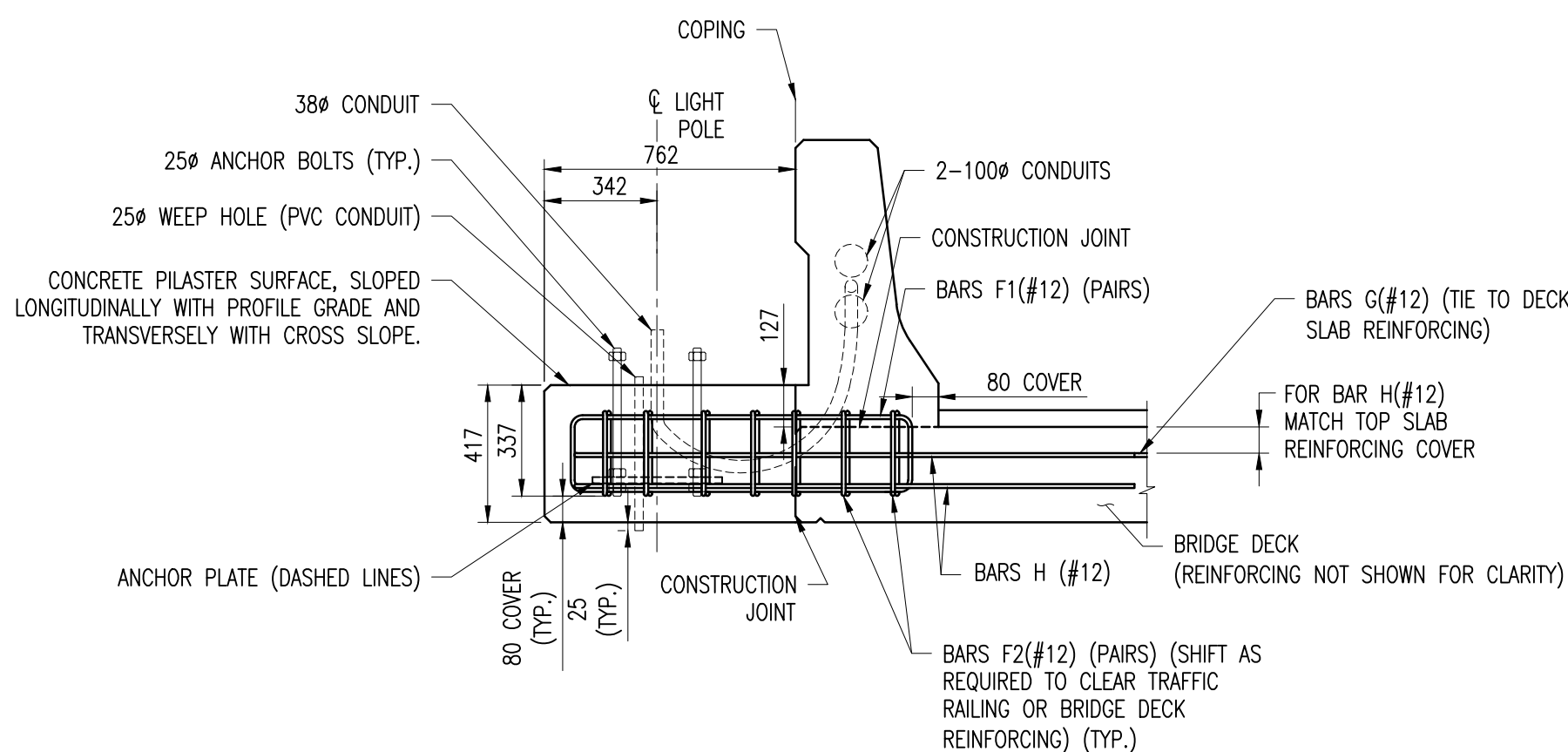
DETAIL "A"
 SCALE 1:10
 NOTE: LIGHT POLE IS SHOWN INDICATIVE.



ANCHOR PLATE DETAIL
 SCALE 1:10

REINFORCING SCHEDULE

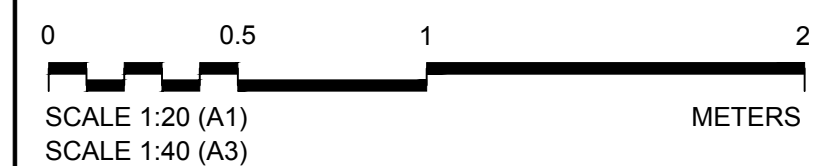
Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]
F1	12	11	125		233	790	790
F2	12	11	Varies		257	940	940
G	12	1	200		1850		
H	12	11	Varies		1316	1700	1700



TYPICAL SECTION AT LIGHT POLE PILASTER
 Scale 1:20

Notes:

- FOR GENERAL NOTES SEE DRAWINGS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D010.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- CONCRETE AND REINFORCING STEEL REQUIRED FOR THE CONSTRUCTION OF THE PILASTER SHALL MEET THE SAME REQUIREMENTS AS THE TRAFFIC RAILING THE PILASTER IS ATTACHED TO. GROUT SHALL COMPLY WITH TECHNICAL SPECIFICATIONS ARTICLE 725.22-(1)-(D).
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- MATERIALS:
 ANCHOR BOLTS: ASTM F1554 GRADE 55.
 NUTS: ASTM A563 GRADE A HEAVY-HEX.
 WASHERS: ASTM F436 TYPE 1.
 ALL NUTS, BOLTS AND WASHERS SHALL BE GALVANIZED BY ASTM F2329.
 ANCHOR PLATE: ASTM A 709 GRADE 36 OR ASTM A36.
- ANCHOR BOLTS MUST BE INSTALLED PLUMB.
- ANCHOR PLATE FIT-UP WITH LIGHT POLE SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANCHOR PLATE DIAMETER MAY BE ADJUSTED TO ACCOMMODATE THE LIGHT POLE USED.



100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
A	KMJ	JSP	MS	19/Oct/16	100% FINAL DESIGN SUBMISSION

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
 Belmopan,
 Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

George Price Highway
 Rehabilitation Project

Drawing Title

SECTION 1
 ROARING CREEK BRIDGE
 AT STATION 0+248.69
 LIGHT POLE PILASTER

Drawn by KMJ	Date: OCT 19, 2016
Checked by JSP	Date: OCT 19, 2016
Authorised by MS	Date: OCT 19, 2016

Drawing No.	Revision
GPHRP/060/S1/B01/D026	A

Drawing Scale: As noted on A1

Plot Scale: 1 : 1

GEORGE PRICE HIGHWAY REHABILITATION
SECTION 1 STA. 0+000 TO 0+485
100% FINAL DESIGN PACKAGE
EXISTING ROARING CREEK BRIDGE REHABILITATION

SHEET INDEX

Sheet Number	Sheet Title
GPHRP-060-S1-PB01-D001	GENERAL ARRANGEMENT
GPHRP-060-S1-PB01-D002	SECTIONS AND DETAILS SHEET 1 OF 7
GPHRP-060-S1-PB01-D003	SECTIONS AND DETAILS SHEET 2 OF 7
GPHRP-060-S1-PB01-D004	SECTIONS AND DETAILS SHEET 3 OF 7
GPHRP-060-S1-PB01-D005	SECTIONS AND DETAILS SHEET 4 OF 7
GPHRP-060-S1-PB01-D006	SECTIONS AND DETAILS SHEET 5 OF 7
GPHRP-060-S1-PB01-D007	SECTIONS AND DETAILS SHEET 6 OF 7
GPHRP-060-S1-PB01-D008	SECTIONS AND DETAILS SHEET 7 OF 7

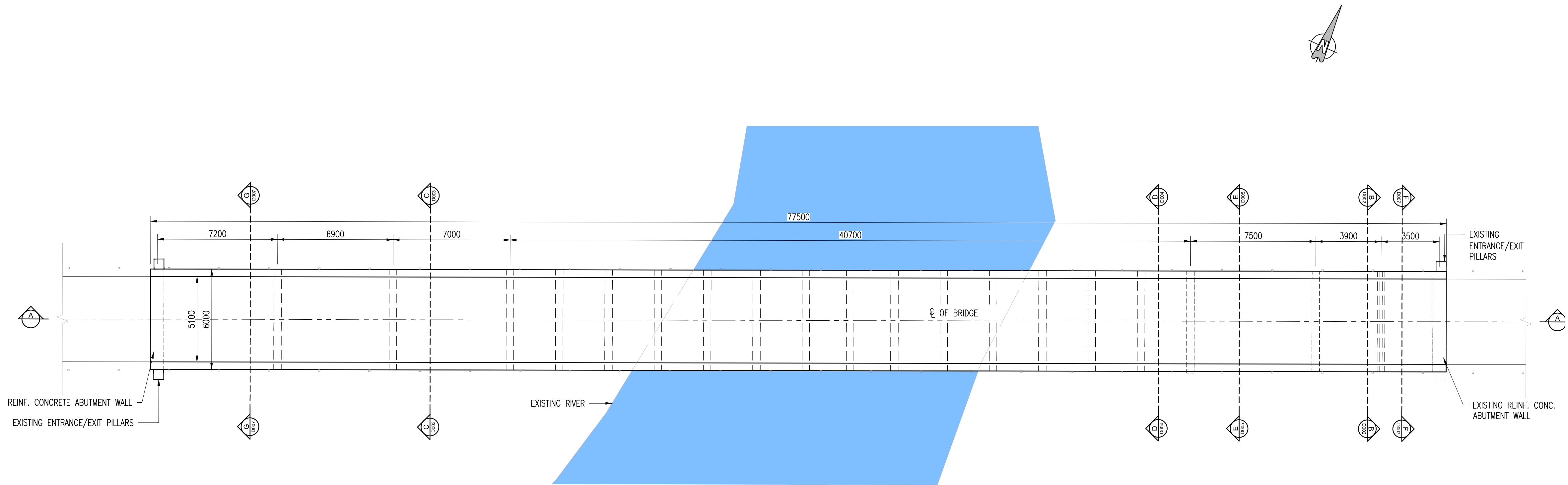
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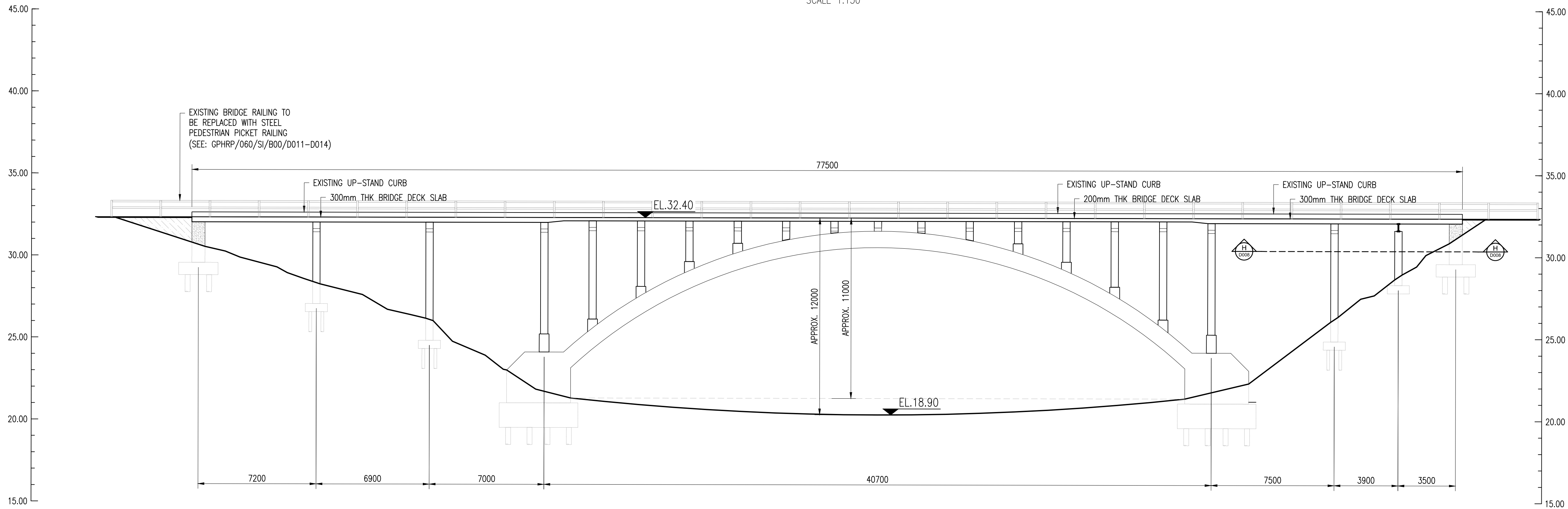
THE GOVERNMENT OF BELIZE
MINISTRY OF WORKS, TRANSPORT
AND NEMO
BELMOPAN,
BELIZE, C. A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
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EXISTING ROARING CREEK BRIDGE
(PLAN)
SCALE 1:150



SECTION A-A
SCALE 1:150

Notes:

- FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001-D014.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- ALL ACCESSIBLE AREAS ARE AS-EXISTS MEASUREMENTS; NON ACCESSIBLE AREAS ARE APPROXIMATIONS.
- EXISTING BRIDGE DECK DRAINAGE PIPES, IN THE VICINITY OF SUB-STRUCTURAL PIER MEMBERS, TO BE LENGTHENED OR DIVERTED AWAY FROM SAID MEMBERS TO AVOID WATER IMPACT AND EVENTUAL DAMAGE TO THE STRUCTURAL CONCRETE.
- ALL FOUNDATION INFORMATION SHOWN IS INDICATIVE/ASSUMED. NO INVESTIGATIONS WERE PERFORMED OR INFORMATION RECEIVED TO VERIFY THE FOUNDATION DETAILS FOR THIS EXISTING BRIDGE.

FINAL

100% DESIGN

Revision	By	Checked	Approved	Date	Description
A	MS	JSP	MS	31/10/16	100% FINAL DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

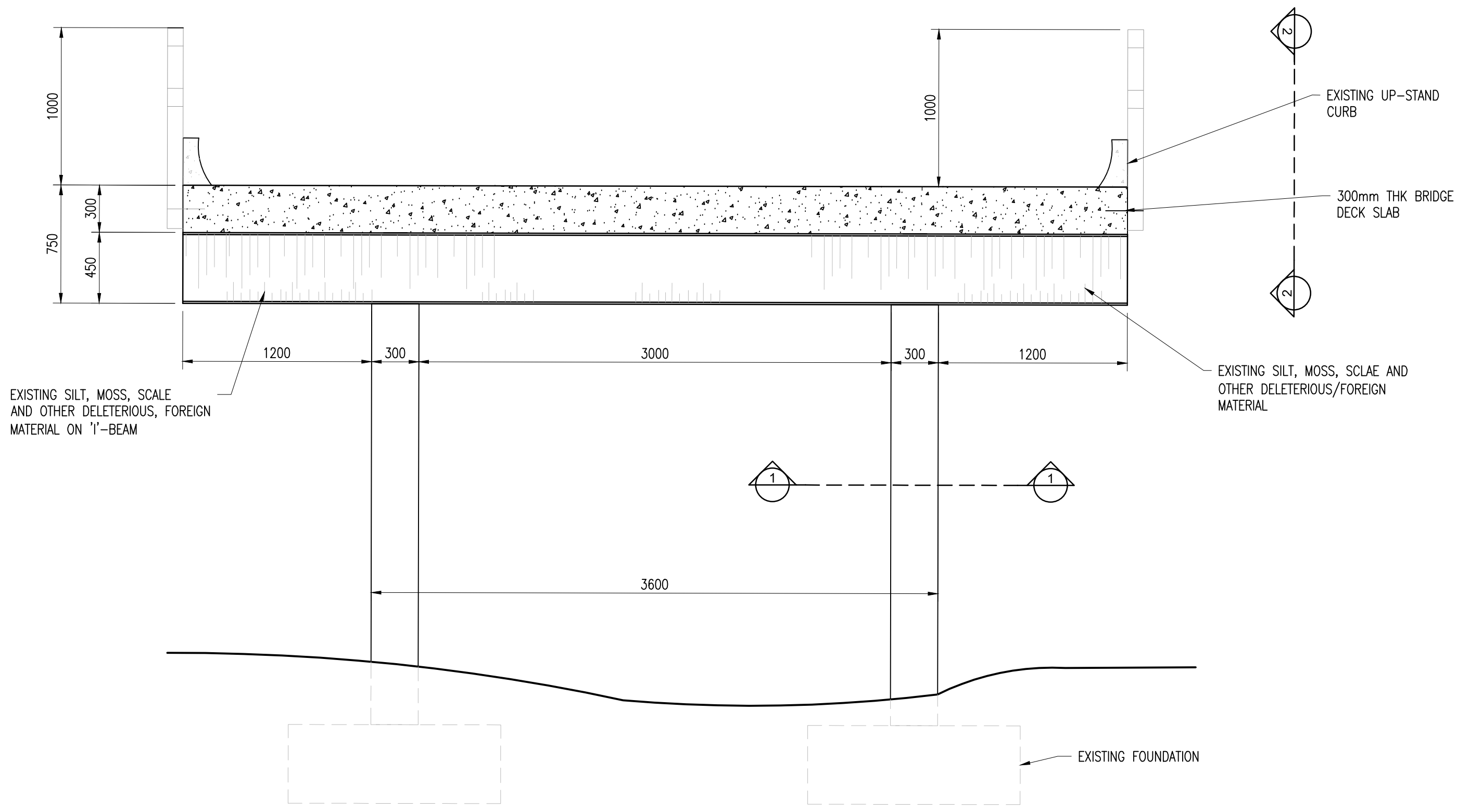
SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION
GENERAL ARRANGEMENT

Drawn by JA	Date: OCT 31, 2016
Checked by JSP	Date: OCT 31, 2016
Authorised by MS	Date: OCT 31, 2016

Drawing No.	Revision
GPHRP/060/S1/PB01/D001	A

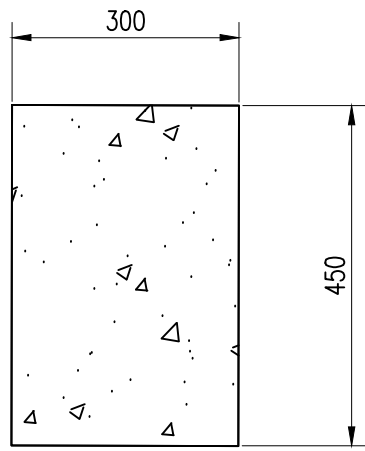
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Plot Scale: 1 : 1

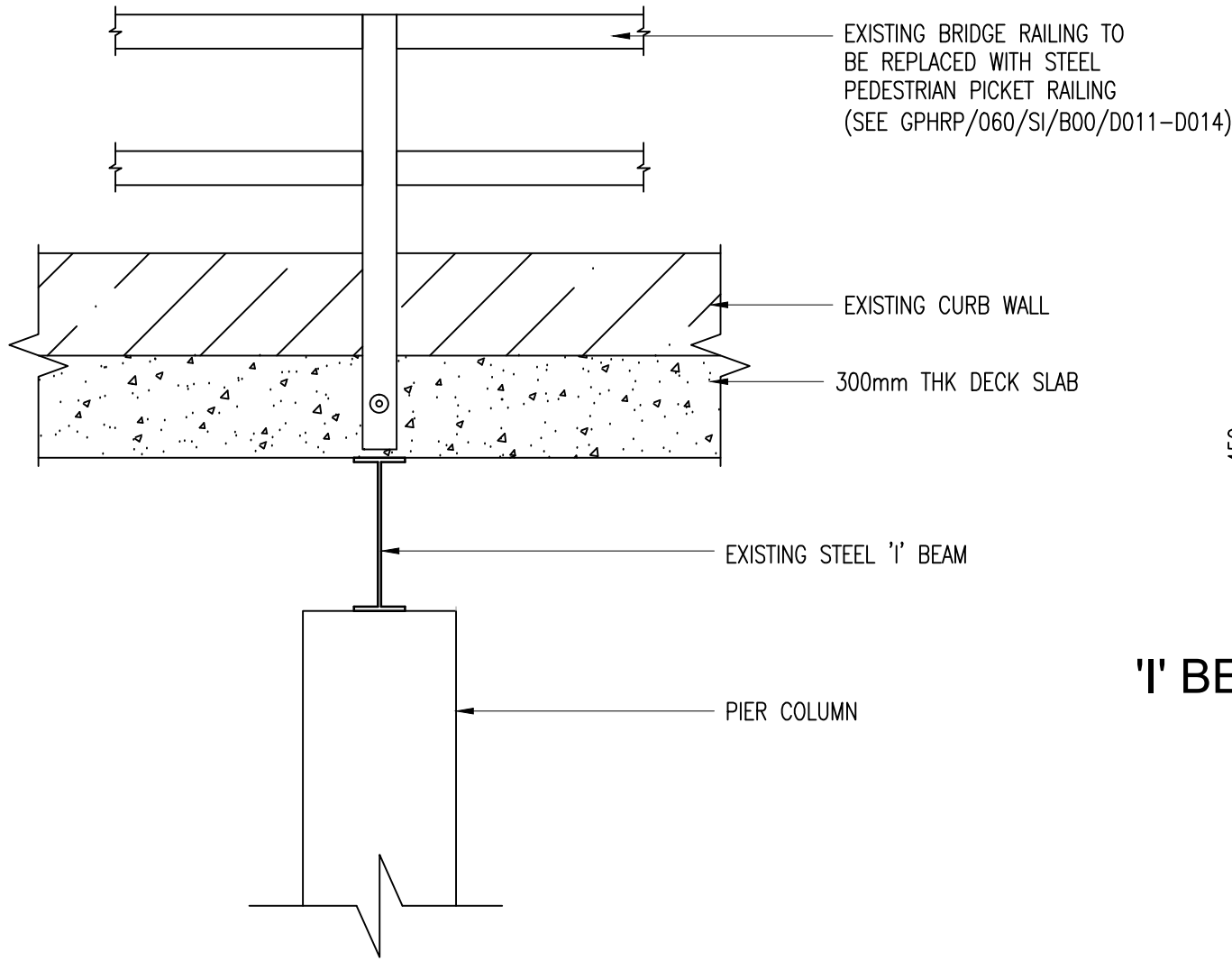


SECTION B-B / D001
RETROFIT PIER SECTION
SCALE 1:25

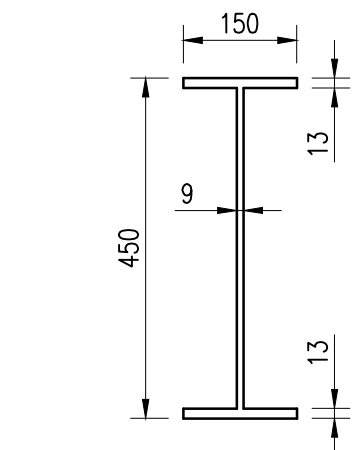
- REHABILITATION NOTES:
1. CONCRETE RESTORATION: FILL EXISTING CONCRETE CORE HOLE IN DECK SLAB ADJACENT TO RETROFITTED STRUCTURAL 'I'-BEAM SUPPORT WITH A HIGH PERFORMANCE, CEMENTATIONS, PUMPABLE AND POURABLE PROPRIETARY CONCRETE MIX, USING SIKACRETE 2110R AN APPROVED EQUIVALENT.
 2. CLEANING: PRESSURE WASH OR OTHERWISE CLEAN STRUCTURAL STEEL 'I'-BEAM VIA NON-ABRASIVE MEANS. REMOVE ALL SILT, MOSS, SCALE AND OTHER DELETERIOUS, FOREIGN MATERIALS.



COLUMN CROSS SECTION
SECTION 1-1
SCALE 1:10



ELEVATION 2-2
SCALE 1:20



'I' BEAM SECTION
SCALE 1:10

- Notes:
1. FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001-D014.
 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 3. ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 4. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS GPHRP/060/S1/PB01/D001.
 5. ALL ACCESSIBLE AREAS ARE AS-EXISTS MEASUREMENTS; NON ACCESSIBLE AREAS ARE APPROXIMATIONS.
 6. EXISTING BRIDGE DECK DRAINAGE PIPES, IN THE VICINITY OF SUB-STRUCTURAL PIER MEMBERS, TO BE LENGTHENED OR DIVERTED AWAY FROM SAID MEMBERS TO AVOID WATER IMPACT AND EVENTUAL DAMAGE TO THE STRUCTURAL CONCRETE.
 7. ALL FOUNDATION INFORMATION SHOWN IS INDICATIVE/ASSUMED. NO INVESTIGATIONS WERE PERFORMED OR INFORMATION RECEIVED TO VERIFY THE FOUNDATION DETAILS FOR THIS EXISTING BRIDGE.

FINAL

100% DESIGN

Revision	By	Checked	Approved	Date	Description
A	MS	JSP	MS	31.10.16	100% FINAL DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

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Project

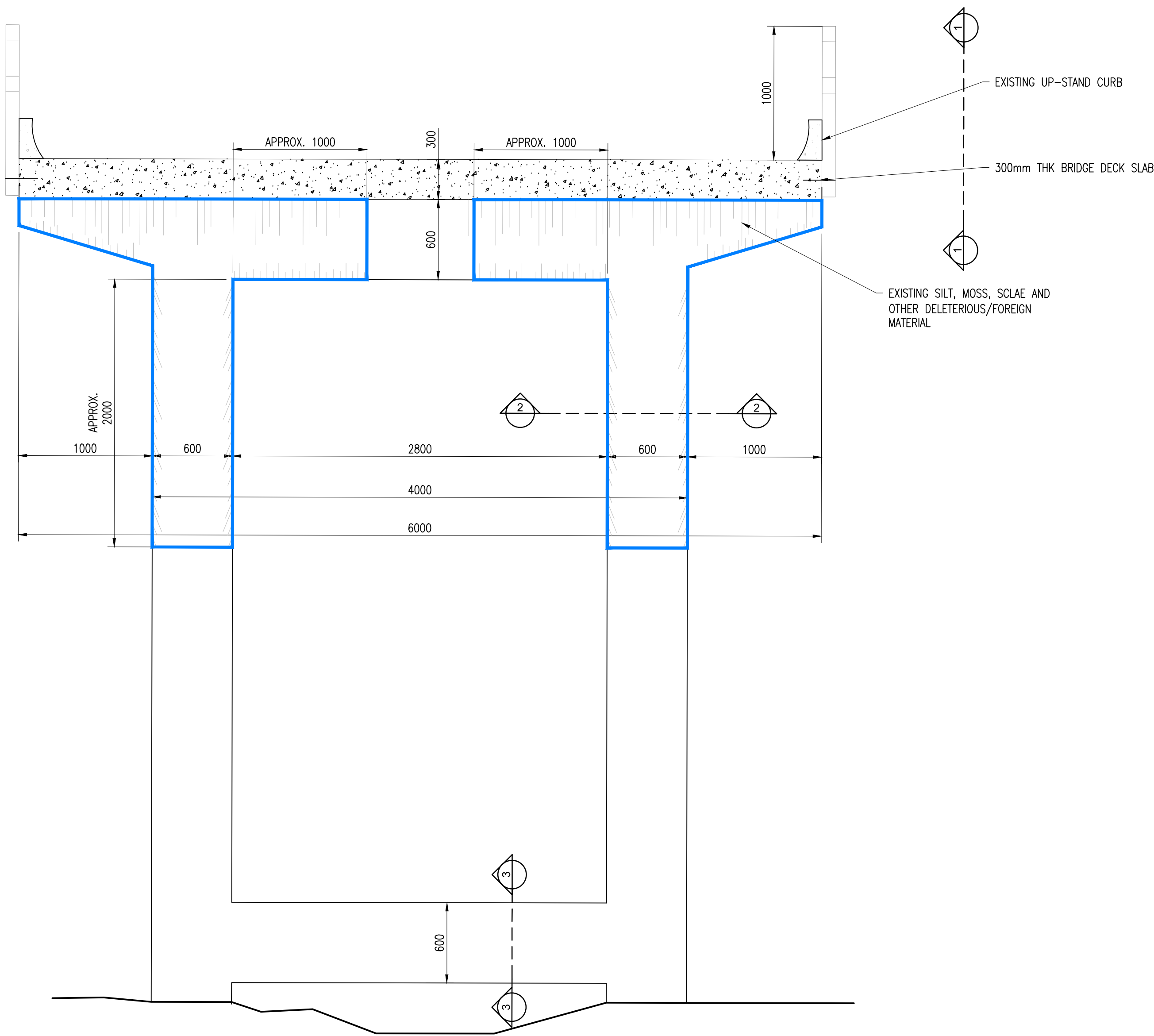
George Price Highway
Rehabilitation Project

Drawing Title

SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION SECTIONS & DETAILS
SHEET 1 OF 7

Drawn by JA	Date: 31 OCT, 2016
Checked by JSP	Date: 31 OCT, 2016
Authorised by MS	Date: 31 OCT, 2016

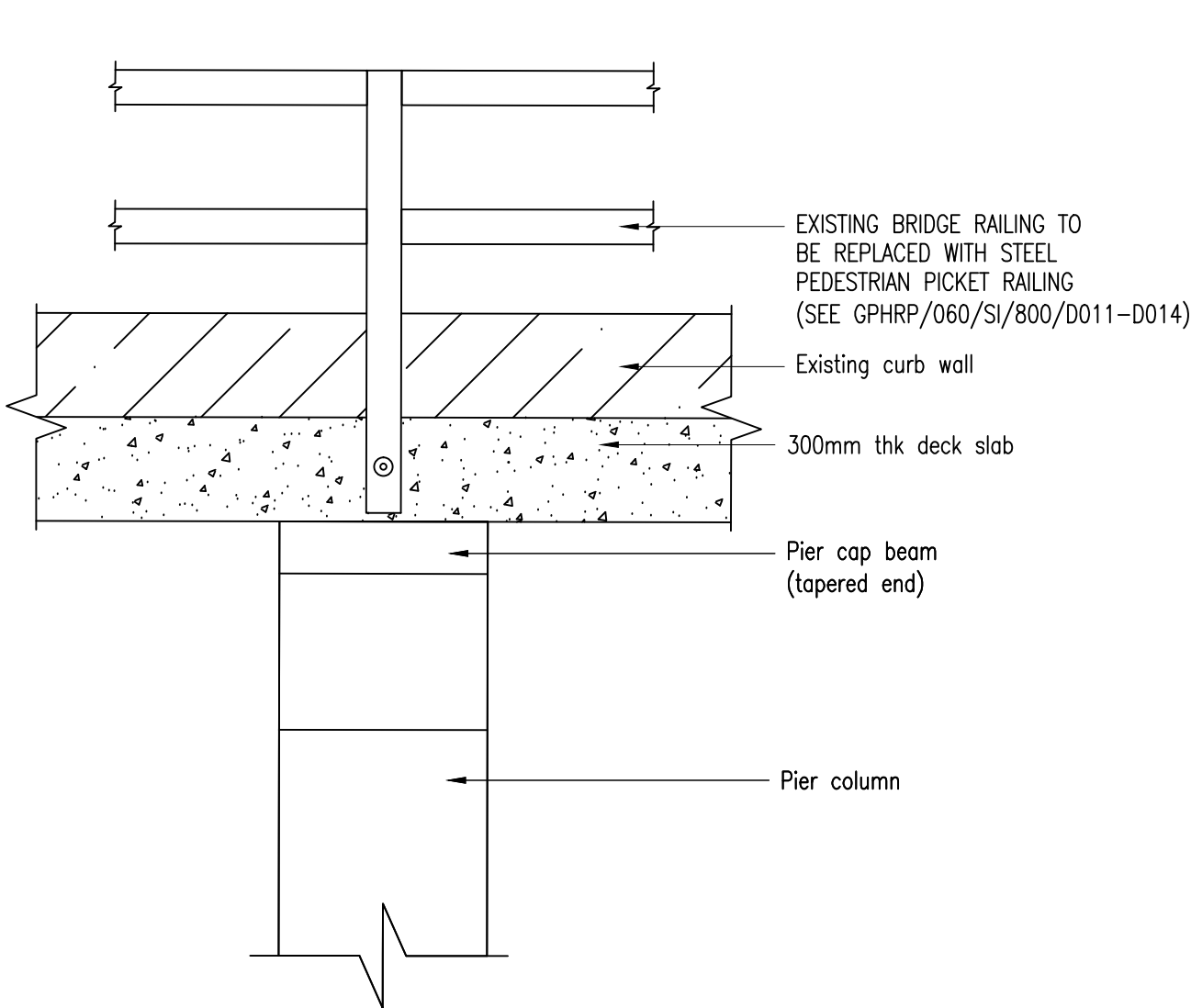
Drawing No.	Revision
GPHRP/060/S1/PB01/D002	A
Drawing Scale: 1:1000 (A1)	
Plot Scale: 1 : 1	



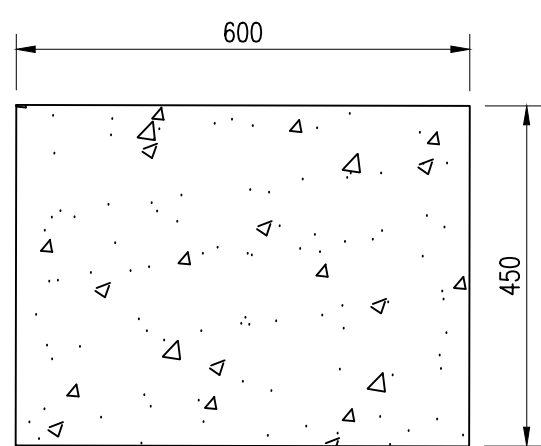
SECTION C-C / D001
MAIN PIER ELEVATION
SCALE 1:25

REHABILITATION NOTES:

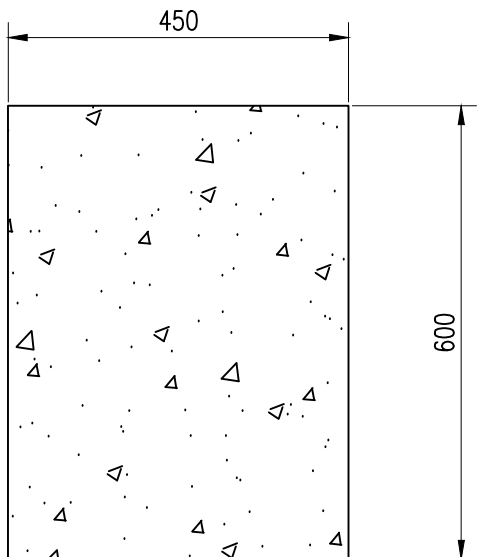
- CLEANING: PRESSURE WASH, SCRAPE AND/OR USE INDUSTRIAL CLEANING PRODUCTS (NOT HARMFUL TO CONCRETE) TO REMOVE MOSS, SCALE, SILT AND OTHER DELETERIOUS MATERIAL ALONG THE SURFACES OF THE SUB-STRUCTURAL PIER MEMBERS AND EDGE OF BRIDGE DECK SLAB SOFFIT.
- MOISTURE BARRIER: TREAT THE CLEANED AND SOUND CONCRETE SURFACES (SHOWN IN BLUE HIGHLIGHTED AREA IN SECTION) WITH HYDROPHOBIC IMPREGNATION USING A SOLVENT-FREE, SILICONE EMULSION CONCENTRATE. USE SIKAGARD 701W OR AN APPROVED EQUIVALENT. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS.
- ANY CLEANED AREAS WITH UNSOUND CONCRETE TO BE REMEDIED AS FOLLOWS:
 - CRACKS IN CONCRETE:
 - ANY EXISTING CONCRETE CRACKS LESS THAN 0.3MM WIDE TO BE SEALED WITH A SUPER LOW VISCOSITY, MOISTURE TOLERANT EPOXY RESIN, CRACK HEALER/PENETRATING SEALER USING SIKADUR 55 SLV OR AN APPROVAL EQUIVALENT.
 - ANY EXISTING CONCRETE CRACKS GREATER THAN 0.3MM BUT LESS THAN 6MM TO BE FILLED WITH A VERY LOW VISCOSITY, MOISTURE TOLERANT EPOXY INJECTION ADHESIVE USING SIKADUR 52 OR AN APPROVED EQUIVALENT.
 - VOIDS IN CONCRETE:
 - SHALLOW VOID FILLING: DEPTH NOT EXCEEDING 75MM AND/OR EXCEEDING THE INSIDE OF THE REINFORCING STEEL TO BE EXECUTED WITH A HIGH PERFORMANCE, NON-SKRINK, CEMENTATIONS GROUT USING SIKA-GROUT 212 OR AN APPROVED EQUIVALENT.
 - DEEP VOID FILLING: DEPTH EXCEEDING 75MM, TO BE EXECUTED WITH A HIGH PERFORMANCE, CEMENTATIONS, PUMPABLE AND POURABLE PROPRIETARY CONCRETE MIX, USING SIKACRETE 211OR AN APPROVED EQUIVALENT



ELEVATION 1-1
SCALE 1:20



SECTION 2-2
SCALE 1:10



BEAM CROSS SECTION
SECTION 3-3
SCALE 1:10

Notes:

- FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001-D014.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
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FINAL

100% DESIGN

A	US	JSP	MS	31.10.16	100% FINAL DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

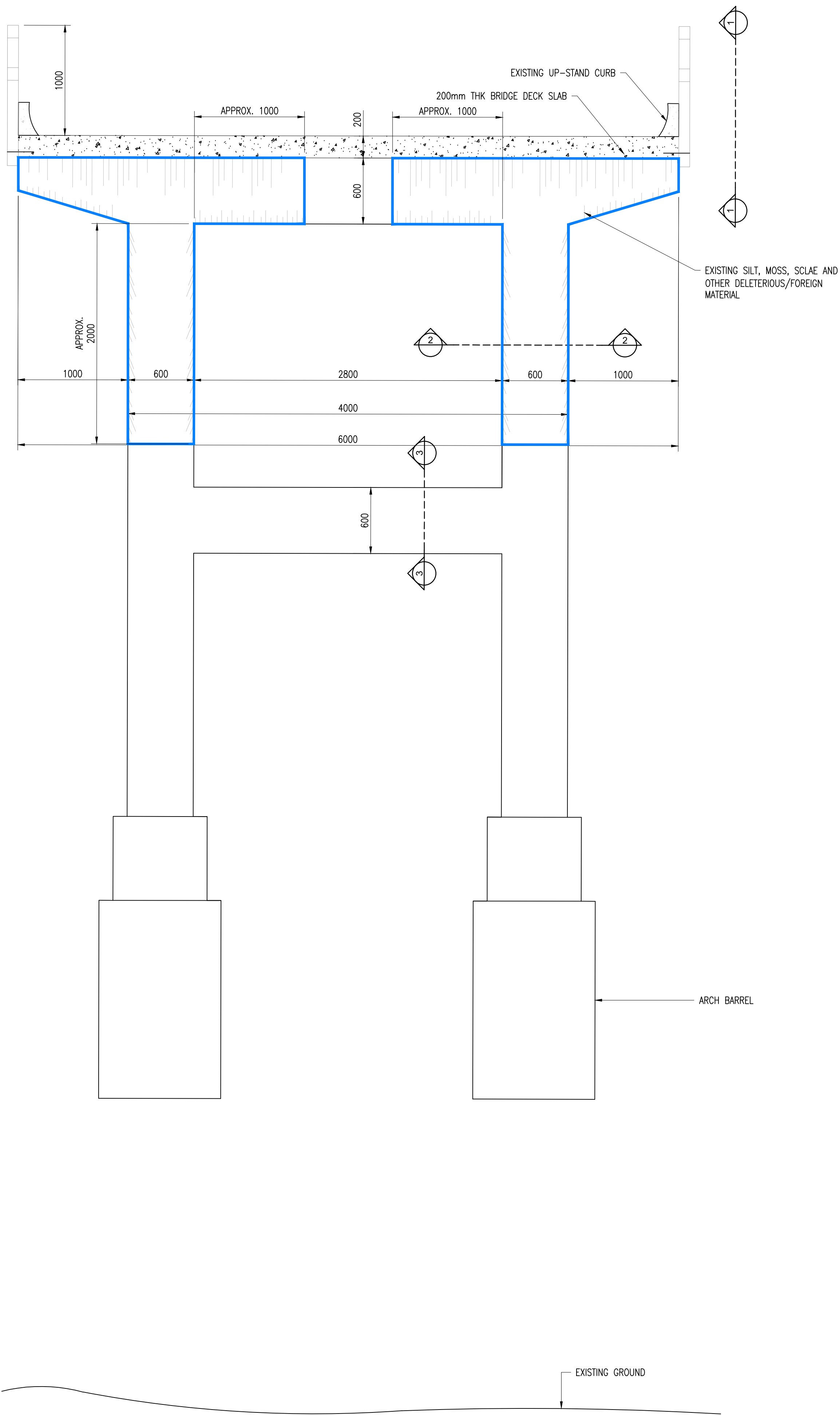
SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION SECTIONS & DETAILS
SHEET 2 OF 7

Drawn by JA	Date: 31 OCT, 2016
Checked by JSP	Date: 31 OCT, 2016
Authorised by MS	Date: 31 OCT, 2016

Drawing No.	Revision
GPHRP/060/S1/PB01/D003	A

Drawing Scale: 1:1000 (A1)

Plot Scale: 1 : 1



SECTION D-D / D001
INTERMEDIATE ARCH PIER ELEVATION
SCALE 1:25

REHABILITATION NOTES:

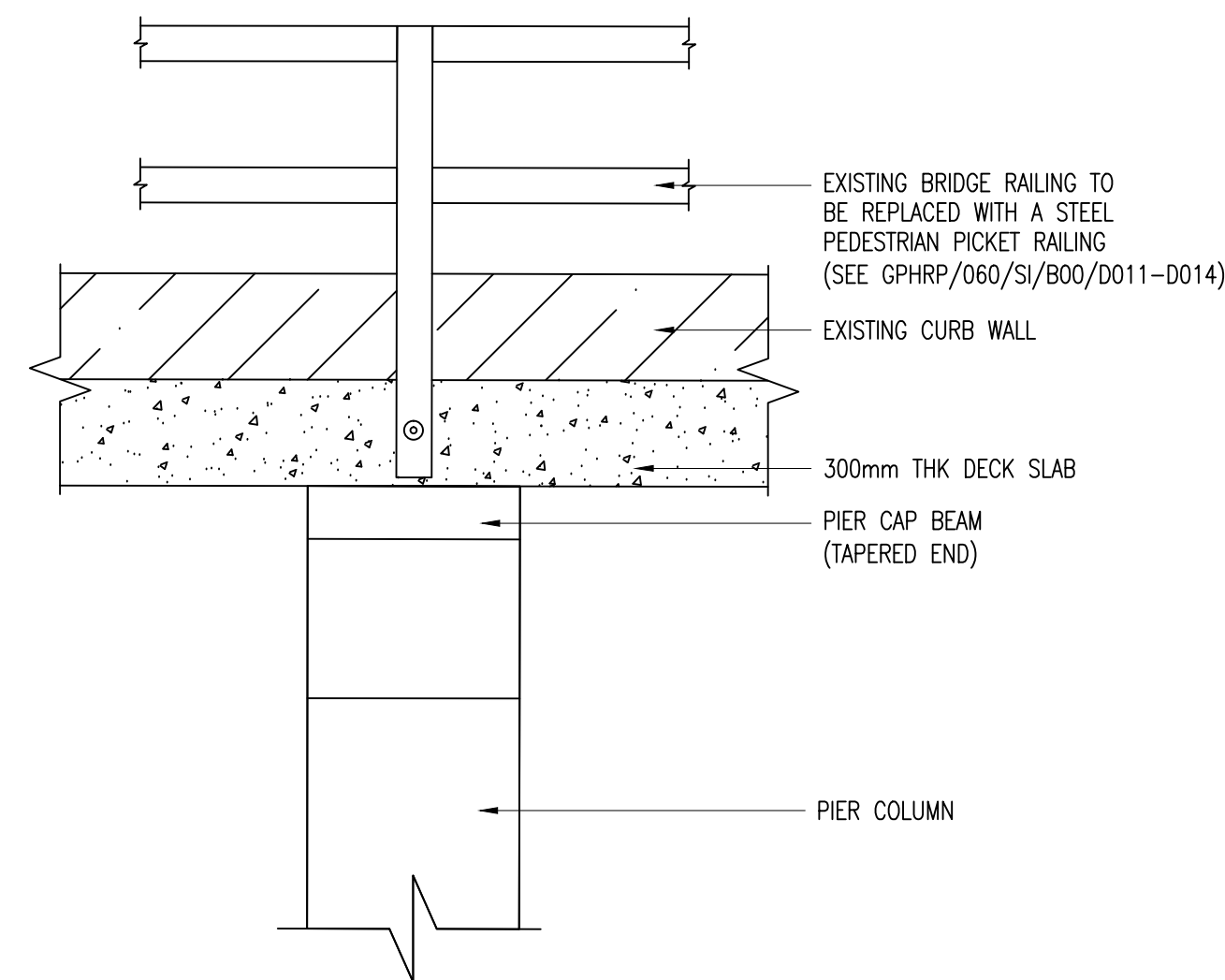
- CLEANING: PRESSURE WASH, SCRAPE AND/OR USE INDUSTRIAL CLEANING PRODUCTS (NOT HARMFUL TO CONCRETE) TO REMOVE MOSS, SCALE, SILT AND OTHER DELETERIOUS MATERIAL ALONG THE SURFACES OF THE SUB-STRUCTURAL PIER MEMBERS AND EDGE OF BRIDGE DECK SLAB SOFFIT.
- MOISTURE BARRIER: TREAT THE CLEANED AND SOUND CONCRETE SURFACES (SHOWN IN BLUE HIGHLIGHTED AREA IN SECTION) WITH HYDROPHOBIC IMPREGNATION USING A SOLVENT-FREE, SILICONE EMULSION CONCENTRATE. USE SIKAGARD 701W OR AN APPROVED EQUIVALENT. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS.
- ANY CLEANED AREAS WITH UNSOUND CONCRETE TO BE REMEDIED AS FOLLOWS:

• CRACKS IN CONCRETE:

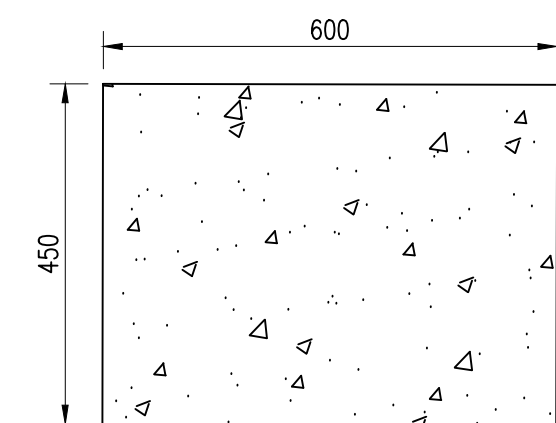
- ANY EXISTING CONCRETE CRACKS LESS THAN 0.3MM WIDE TO BE SEALED WITH A SUPER LOW VISCOSITY, MOISTURE TOLERANT EPOXY RESIN, CRACK HEALER/PENETRATING SEALER USING SIKADUR 55 SLV OR AN APPROVAL EQUIVALENT.
- ANY EXISTING CONCRETE CRACKS GREATER THAN 0.3MM BUT LESS THAN 6MM TO BE FILLED WITH A VERY LOW VISCOSITY, MOISTURE TOLERANT EPOXY INJECTION ADHESIVE USING SIKADUR 52 OR AN APPROVED EQUIVALENT.

• VOIDS IN CONCRETE:

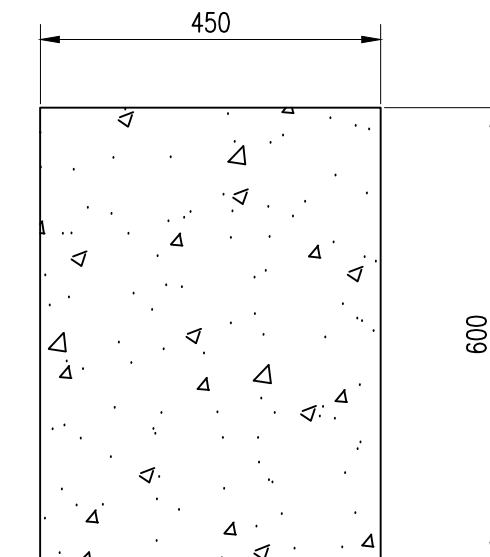
- SHALLOW VOID FILLING: DEPTH NOT EXCEEDING 75MM AND/OR EXCEEDING THE INSIDE OF THE REINFORCING STEEL, TO BE EXECUTED WITH A HIGH PERFORMANCE, NON-SKRINK, CEMENTATIONS GROUT USING SIKAGROUT 212 OR AN APPROVED EQUIVALENT.
- DEEP VOID FILLING, DEPTH EXCEEDING 75MM, TO BE EXECUTED WITH A HIGH PERFORMANCE, CEMENTATIONS, PUMPABLE AND POURABLE PROPRIETARY CONCRETE MIX, USING SIKACRETE 211OR AN APPROVED EQUIVALENT



ELEVATION 1-1
SCALE 1:20



SECTION 2-2
SCALE 1:10



BEAM CROSS SECTION
SECTION 3-3
SCALE 1:10

Notes:

- FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001-D014.
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- ALL FOUNDATION INFORMATION SHOWN IS INDICATIVE/ASSUMED. NO INVESTIGATIONS WERE PERFORMED OR INFORMATION RECEIVED TO VERIFY THE FOUNDATION DETAILS FOR THIS EXISTING BRIDGE.

FINAL

100% DESIGN

Revision	By	Checked	Approved	Date	Description
A	MS	JSP	MS	31/10/16	100% FINAL DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

George Price Highway
Rehabilitation Project

Drawing Title

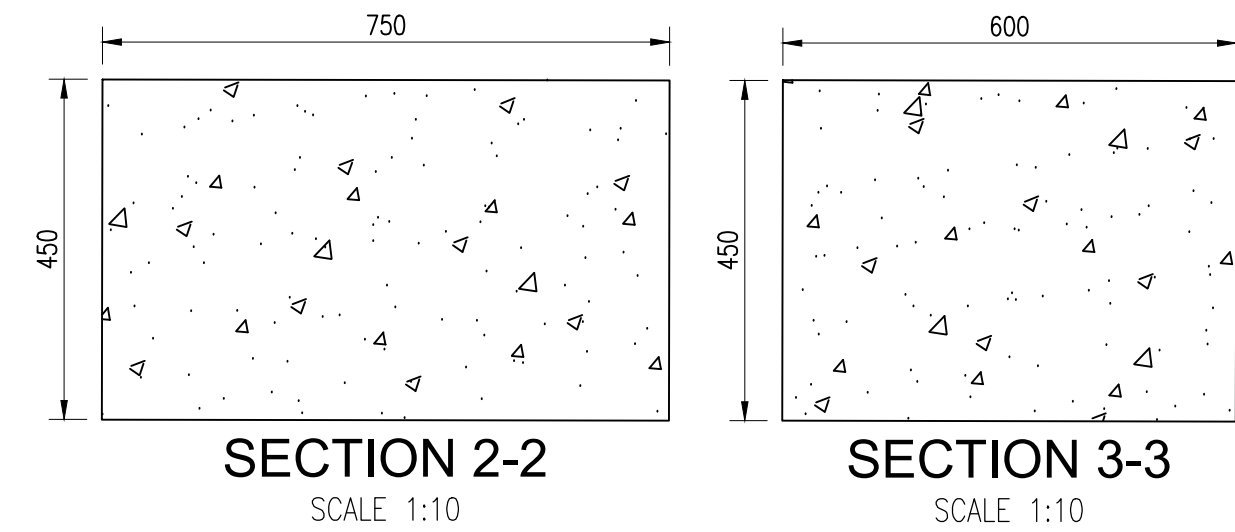
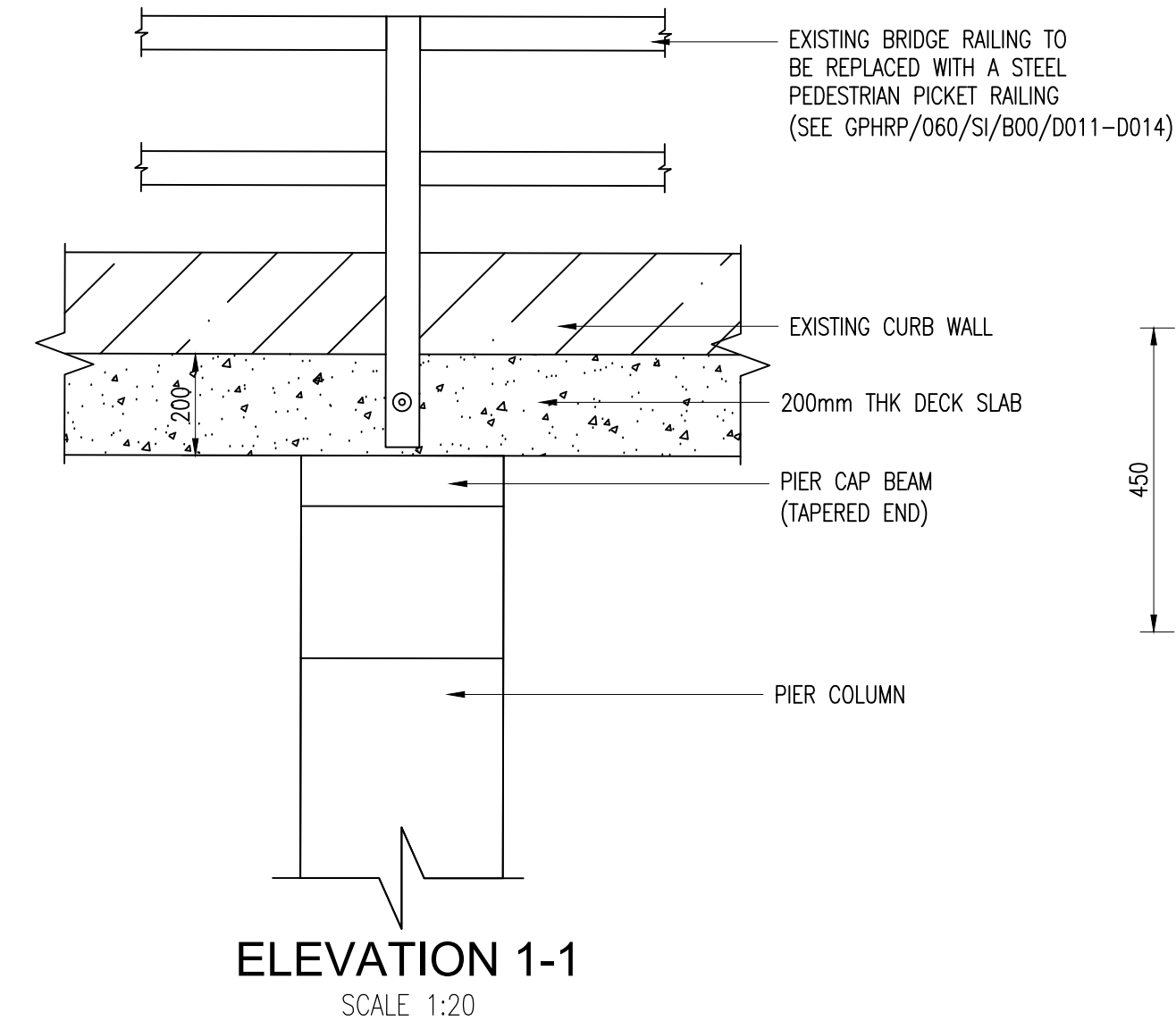
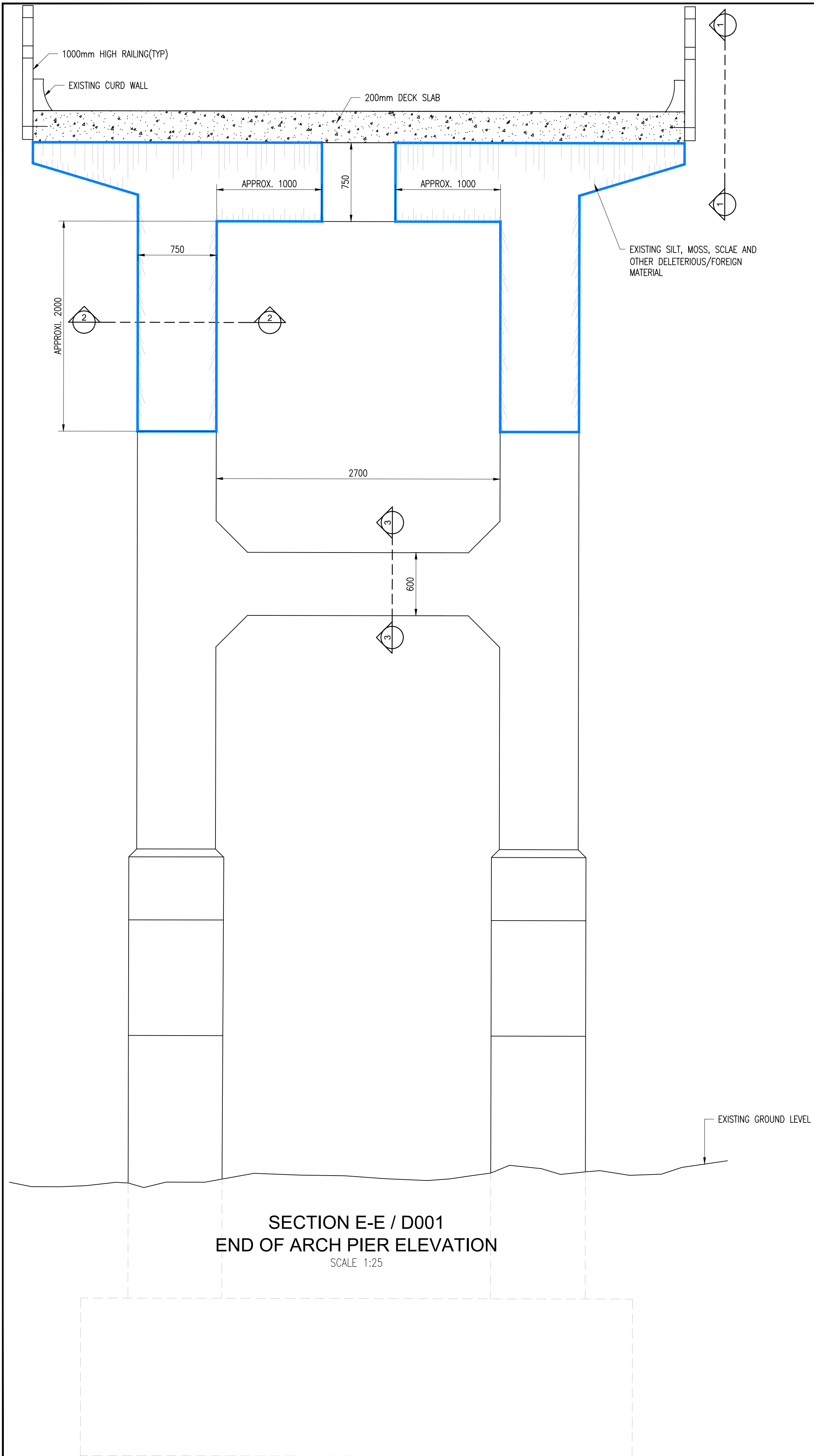
SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION SECTIONS & DETAILS
SHEET 3 OF 7

Drawn by JA Date: 31 OCT, 2016
Checked by JSP Date: 31 OCT, 2016
Authorised by MS Date: 31 OCT, 2016

Drawing No. Revision
GPHRP/060/S1/PB01/D004 A

Drawing Scale: 1:1000 (A1)

Plot Scale: 1 : 1



REHABILITATION NOTES:

- CLEANING: PRESSURE WASH, SCRAPE AND/OR USE INDUSTRIAL CLEANING PRODUCTS (NOT HARMFUL TO CONCRETE) TO REMOVE MOSS, SCALE, SILT AND OTHER DELETERIOUS MATERIAL ALONG THE SURFACES OF THE SUB-STRUCTURAL PIER MEMBERS AND EDGE OF BRIDGE DECK SLAB SOFFIT.
- MOISTURE BARRIER: TREAT THE CLEANED AND SOUND CONCRETE SURFACES (SHOWN IN BLUE HIGHLIGHTED AREA IN SECTION) WITH HYDROPHOBIC IMPREGNATION USING A SOLVENT-FREE, SILICONE EMULSION CONCENTRATE. USE SIKAGARD 701W OR AN APPROVED EQUIVALENT. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS.
- ANY CLEANED AREAS WITH UNSOUND CONCRETE TO BE REMEDIED AS FOLLOWS:
 - CRACKS IN CONCRETE:
 - ANY EXISTING CONCRETE CRACKS LESS THAN 0.3MM WIDE TO BE SEALED WITH A SUPER LOW VISCOSITY, MOISTURE TOLERANT EPOXY RESIN, CRACK HEALER/PENETRATING SEALER USING SIKADUR 55 SLV OR AN APPROVAL EQUIVALENT.
 - ANY EXISTING CONCRETE CRACKS GREATER THAN 0.3MM BUT LESS THAN 6MM TO BE FILLED WITH A VERY LOW VISCOSITY, MOISTURE TOLERANT EPOXY INJECTION ADHESIVE USING SIKADUR 52 OR AN APPROVED EQUIVALENT.
 - VOIDS IN CONCRETE:
 - SHALLOW VOID FILLING, DEPTH NOT EXCEEDING 75MM AND/OR EXCEEDING THE INSIDE OF THE REINFORCING STEEL, TO BE EXECUTED WITH A HIGH PERFORMANCE, NON-SKRINK, CEMENTATIONS GROUT USING SIKAGROUT 212 OR AN APPROVED EQUIVALENT.
 - DEEP VOID FILLING, DEPTH EXCEEDING 75MM, TO BE EXECUTED WITH A HIGH PERFORMANCE, CEMENTATIONS, PUMPABLE AND POURABLE PROPRIETARY CONCRETE MIX, USING SIKACRETE 211OR AN APPROVED EQUIVALENT

Notes:

- FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001-D014.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- ALL ACCESSIBLE AREAS ARE AS-EXISTS MEASUREMENTS; NON ACCESSIBLE AREAS ARE APPROXIMATIONS.
- EXISTING BRIDGE DECK DRAINAGE PIPES, IN THE VICINITY OF SUB-STRUCTURAL PIER MEMBERS, TO BE LENGTHENED OR DIVERTED AWAY FROM SAID MEMBERS TO AVOID WATER IMPACT AND EVENTUAL DAMAGE TO THE STRUCTURAL CONCRETE.
- ALL FOUNDATION INFORMATION SHOWN IS INDICATIVE/ASSUMED. NO INVESTIGATIONS WERE PERFORMED OR INFORMATION RECEIVED TO VERIFY THE FOUNDATION DETAILS FOR THIS EXISTING BRIDGE.

FINAL

100% DESIGN

Revision	By	Checked	Approved	Date	Description
A	JA	JSP	MS	31.10.16	100% FINAL DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
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Tel: +1 868 222 7290 Fax: +1 868 221 8683
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Project

George Price Highway
Rehabilitation Project

Drawing Title

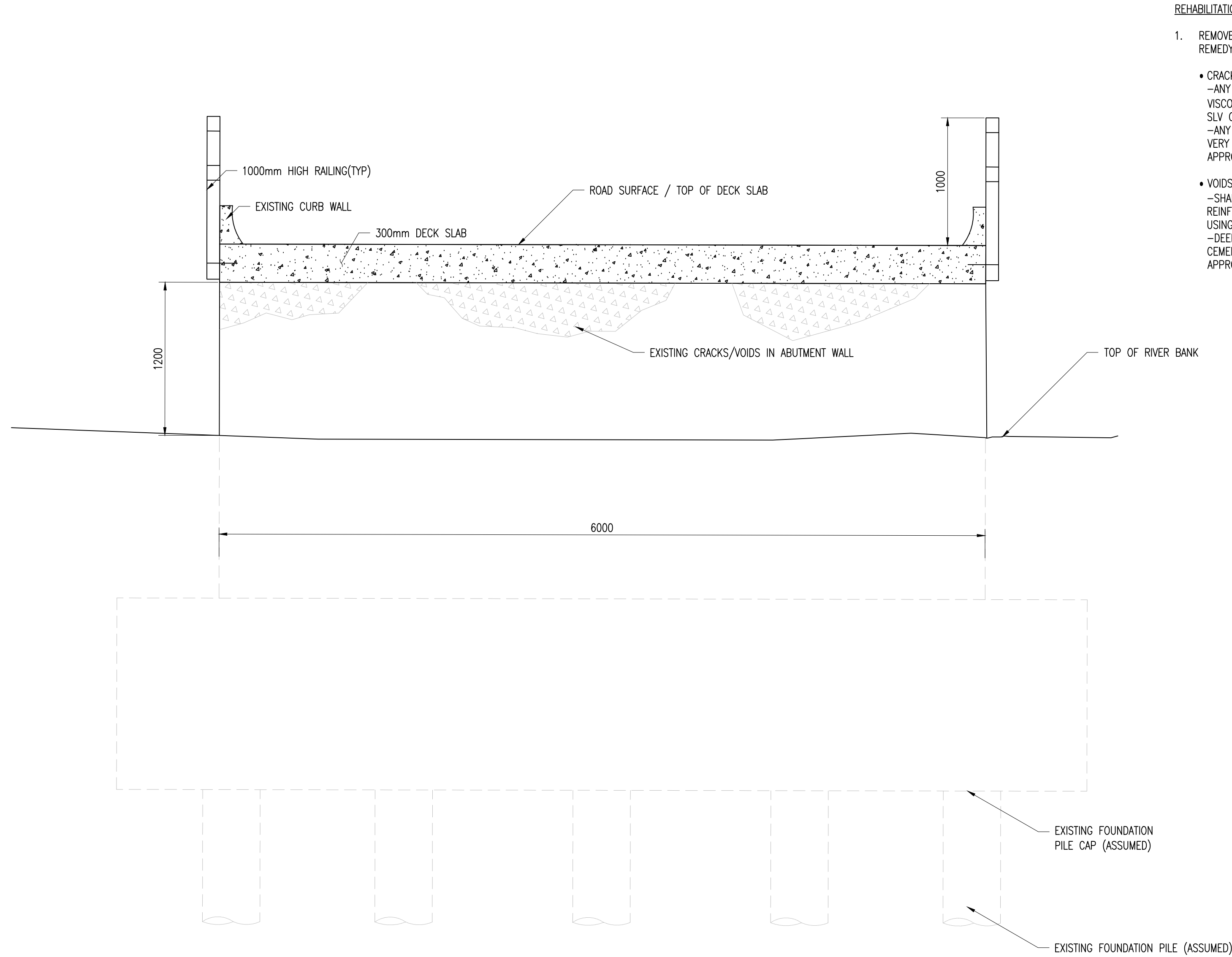
SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION SECTIONS & DETAILS
SHEET 4 OF 7

Drawn by JA	Date: 31 OCT, 2016
Checked by JSP	Date: 31 OCT, 2016
Authorised by MS	Date: 31 OCT, 2016

Drawing No.	Revision
GPHRP/060/S1/PB01/D005	A

Drawing Scale: 1:1000 (A1)

Plot Scale: 1 : 1



SECTION F-F / D001
EAST BANK SEAT ABUTMENT ELEVATION
SCALE 1:25

- Notes:
1. FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001–D014.
 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 3. ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 4. ALL ACCESSIBLE AREAS ARE AS–EXISTS MEASUREMENTS; NON ACCESSIBLE AREAS ARE APPROXIMATIONS.
 5. EXISTING BRIDGE DECK DRAINAGE PIPES, IN THE VICINITY OF SUB–STRUCTURAL PIER MEMBERS, TO BE LENGTHENED OR DIVERTED AWAY FROM SAID MEMBERS TO AVOID WATER IMPACT AND EVENTUAL DAMAGE TO THE STRUCTURAL CONCRETE.
 6. ALL FOUNDATION INFORMATION SHOWN IS INDICATIVE/ASSUMED. NO INVESTIGATIONS WERE PERFORMED OR INFORMATION RECEIVED TO VERIFY THE FOUNDATION DETAILS FOR THIS EXISTING BRIDGE.

FINAL

100% DESIGN

A	MS	JSP	MS	31.10.16	100% FINAL DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

 Ministry of Works, Transport and NEMO
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Project

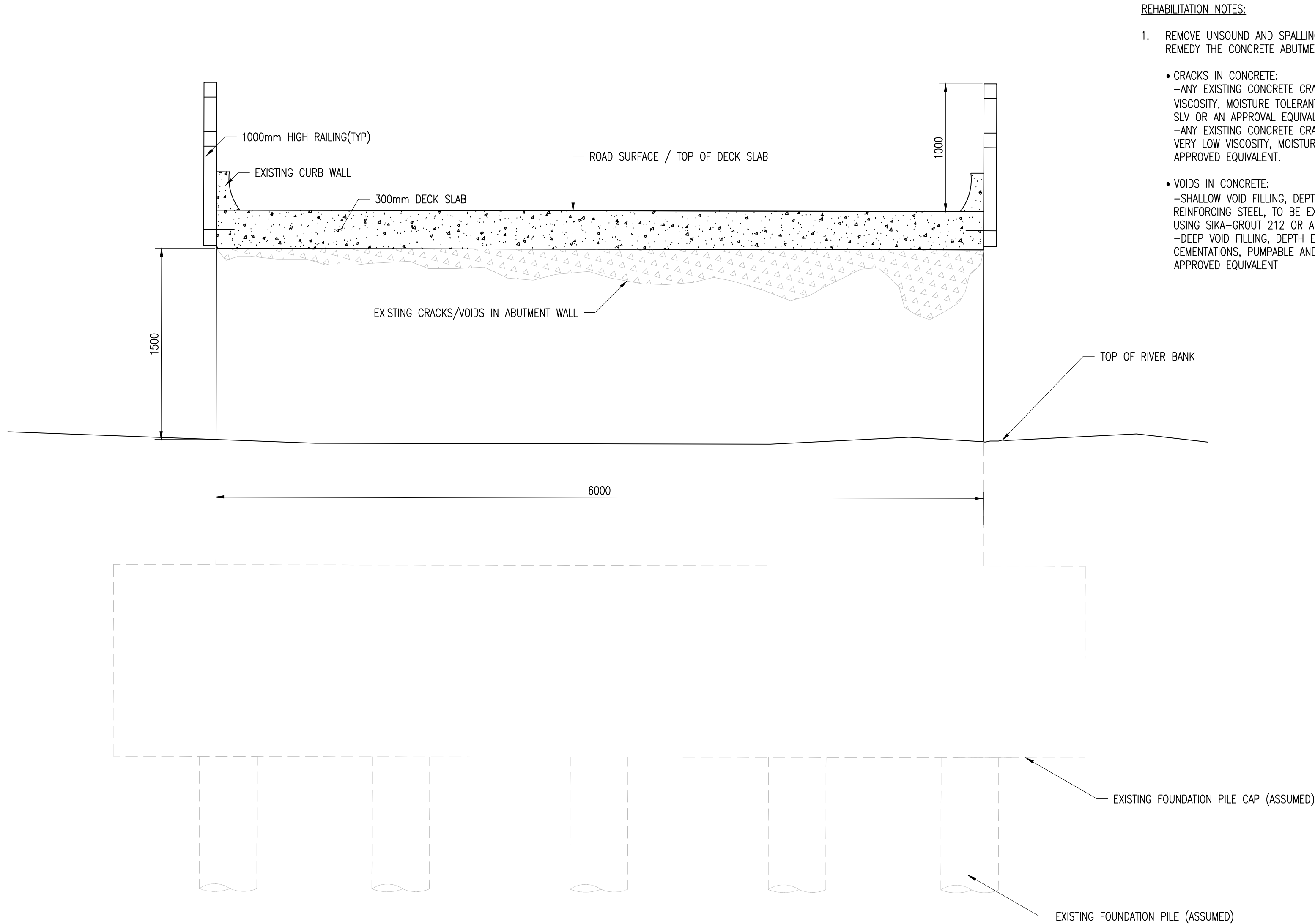
George Price Highway
Rehabilitation Project

Drawing Title

SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION SECTIONS & DETAILS
SHEET 5 OF 7

Drawn by JA	Date: 31 OCT, 2016
Checked by JSP	Date: 31 OCT, 2016
Authorised by MS	Date: 31 OCT, 2016

Drawing No.	Revision
GPHRP/060/S1/PB01/D006	A
Drawing Scale: 1:1000 (A1)	
Plot Scale: 1 : 1	



SECTION G-G / D001
WEST BANK SEAT ABUTMENT ELEVATION
SCALE 1:25

Notes:

1. FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001-D014.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
3. ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. ALL ACCESSIBLE AREAS ARE AS-EXISTS MEASUREMENTS; NON ACCESSIBLE AREAS ARE APPROXIMATIONS.
5. EXISTING BRIDGE DECK DRAINAGE PIPES, IN THE VICINITY OF SUB-STRUCTURAL PIER MEMBERS, TO BE LENGTHENED OR DIVERTED AWAY FROM SAID MEMBERS TO AVOID WATER IMPACT AND EVENTUAL DAMAGE TO THE STRUCTURAL CONCRETE.
6. ALL FOUNDATION INFORMATION SHOWN IS INDICATIVE/ASSUMED. NO INVESTIGATIONS WERE PERFORMED OR INFORMATION RECEIVED TO VERIFY THE FOUNDATION DETAILS FOR THIS EXISTING BRIDGE.

FINAL

100% DESIGN

Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

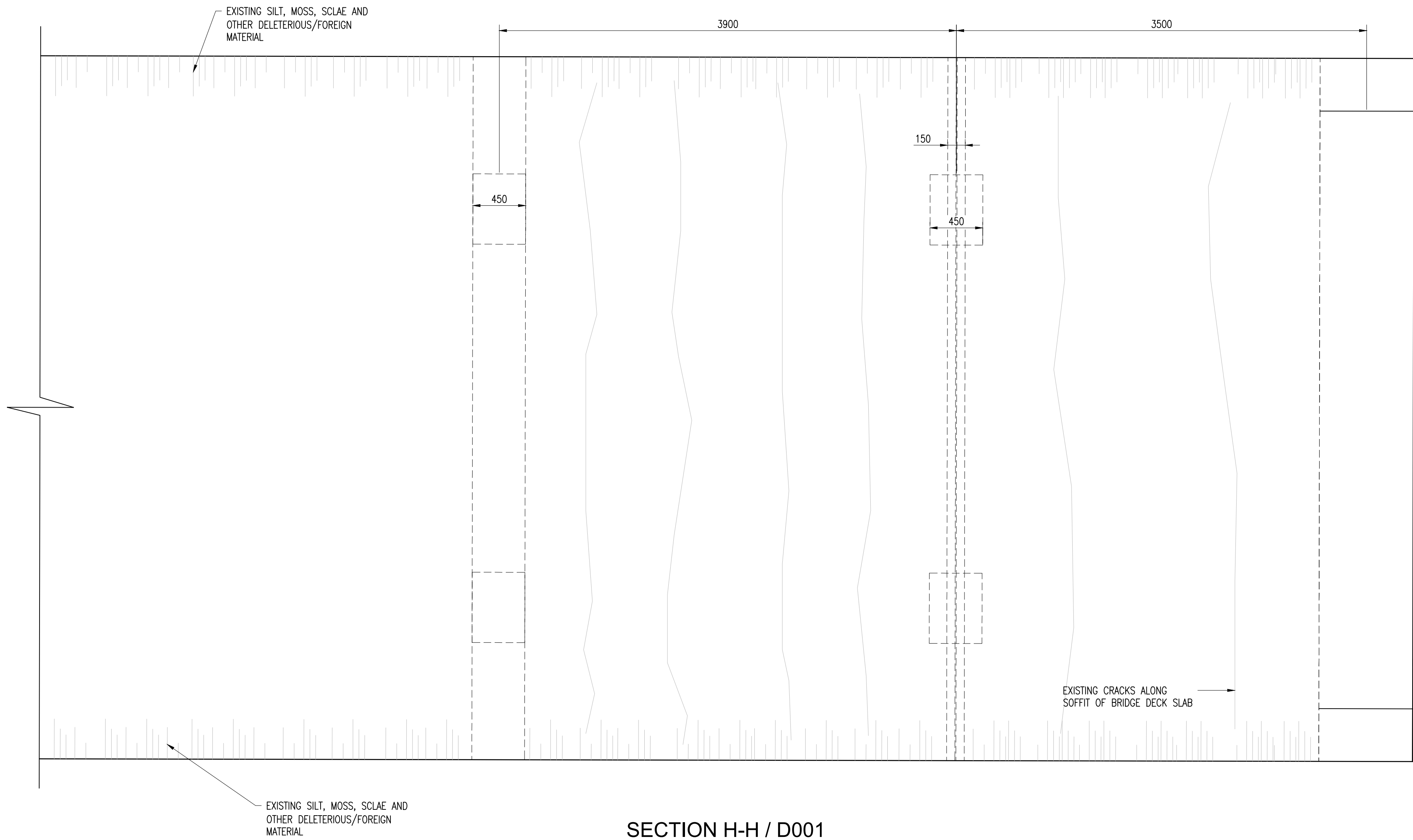
SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION SECTIONS & DETAILS
SHEET 6 OF 7

Drawn by JA	Date: 31 OCT, 2016
Checked by JSP	Date: 31 OCT, 2016
Authorised by MS	Date: 31 OCT, 2016

Drawing No.	Revision
GPHRP/060/S1/PB01/D007	A

Drawing Scale: 1:1000 (A1)

Plot Scale: 1 : 1



SECTION H-H / D001
SCALE 1:25

REHABILITATION NOTES:

- CLEANING: PRESSURE WASH, SCRAPE AND/OR USE INDUSTRIAL CLEANING PRODUCTS (NOT HARMFUL TO CONCRETE) TO REMOVE MOSS, SCALE, SILT AND OTHER DELETERIOUS MATERIAL ALONG THE SURFACES OF THE SUB-STRUCTURAL PIER MEMBERS AND EDGE OF BRIDGE DECK SLAB SOFFIT.
- MOISTURE BARRIER: TREAT THE CLEANED AND SOUND CONCRETE SURFACES (SHOWN IN BLUE HIGHLIGHTED AREA IN SECTION) WITH HYDROPHOBIC IMPREGNATION USING A SOLVENT-FREE, SILICONE EMULSION CONCENTRATE. USE SIKAGARD 701W OR AN APPROVED EQUIVALENT. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS.
- ANY CLEANED AREAS WITH UNSOUND CONCRETE TO BE REMEDIED AS FOLLOWS:

- CRACKS IN CONCRETE:
 - ANY EXISTING CONCRETE CRACKS LESS THAN 0.3MM WIDE TO BE SEALED WITH A SUPER LOW VISCOSITY, MOISTURE TOLERANT EPOXY RESIN, CRACK HEALER/PENETRATING SEALER USING SIKADUR 55 SLV OR AN APPROVAL EQUIVALENT.
 - ANY EXISTING CONCRETE CRACKS GREATER THAN 0.3MM BUT LESS THAN 6MM TO BE FILLED WITH A VERY LOW VISCOSITY, MOISTURE TOLERANT EPOXY INJECTION ADHESIVE USING SIKADUR 52 OR AN APPROVED EQUIVALENT.

- VOIDS IN CONCRETE:
 - SHALLOW VOID FILLING, DEPTH NOT EXCEEDING 75MM AND/OR EXCEEDING THE INSIDE OF THE REINFORCING STEEL, TO BE EXECUTED WITH A HIGH PERFORMANCE, NON-SKRINK, CEMENTATIONS GROUT USING SIKAGROUT 212 OR AN APPROVED EQUIVALENT.
 - DEEP VOID FILLING, DEPTH EXCEEDING 75MM, TO BE EXECUTED WITH A HIGH PERFORMANCE, CEMENTATIONS, PUMPABLE AND POURABLE PROPRIETARY CONCRETE MIX, USING SIKACRETE 211OR AN APPROVED EQUIVALENT

Notes:

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- ALL FOUNDATION INFORMATION SHOWN IS INDICATIVE/ASSUMED. NO INVESTIGATIONS WERE PERFORMED OR INFORMATION RECEIVED TO VERIFY THE FOUNDATION DETAILS FOR THIS EXISTING BRIDGE.

FINAL

100% DESIGN

Revision	By	Checked	Approved	Date	Description
A	MS	JSP	MS	31.10.16	100% FINAL DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

SECTION 1 EXISTING ROARING CREEK
BRIDGE REHABILITATION SECTIONS & DETAILS
SHEET 7 OF 7

Drawn by JA	Date: 31 OCT, 2016
Checked by JSP	Date: 31 OCT, 2016
Authorised by MS	Date: 31 OCT, 2016

Drawing No.	Revision
GPHRP/060/S1/PB01/D008	A

Drawing Scale: 1:1000 (A1)

Plot Scale: 1 : 1

GEORGE PRICE HIGHWAY REHABILITATION
SECTION 1 STA. 0+000 TO 0+485
100% DESIGN PACKAGE

RETAINING WALL 01 (STRUCTURAL)

SECTION 1 DRAWING SET

Sheet Number	Sheet Title
GPHRP-060-S1-W01-D001	ROARING CREEK NORTHERN RETAINING WALL AT STATION 0+302.50 TO 0+375.00 GENERAL ARRANGEMENT
GPHRP-060-S1-W01-D002	ROARING CREEK NORTHERN RETAINING WALL AT STATION 0+302.50 TO 0+375.00 TYPICAL SECTION & REINFORCEMENT DETAILS

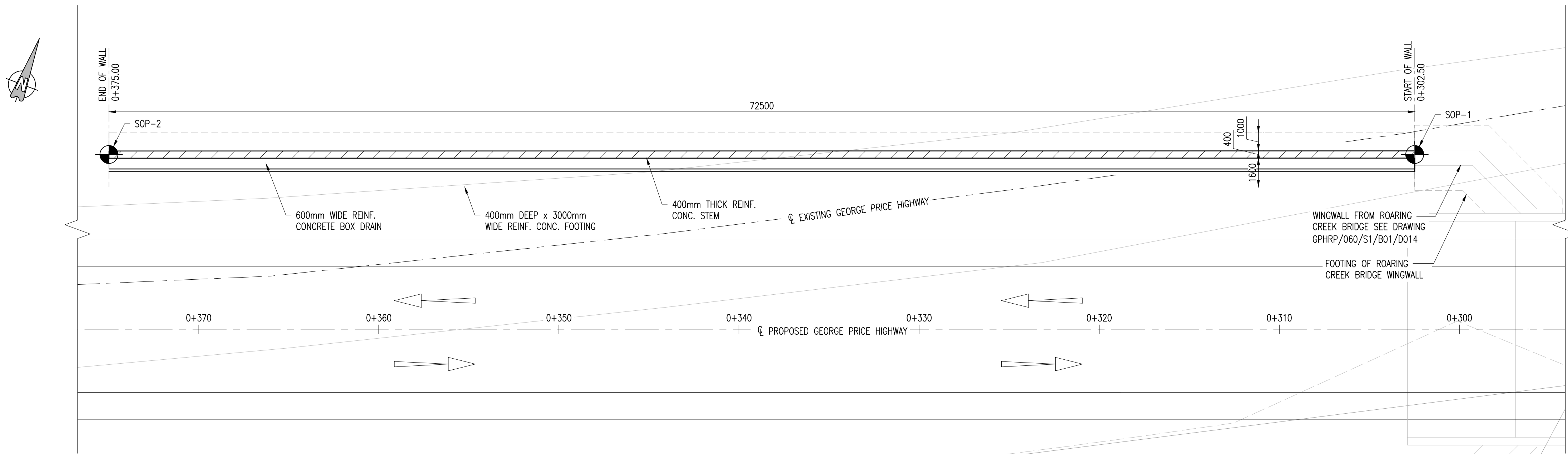
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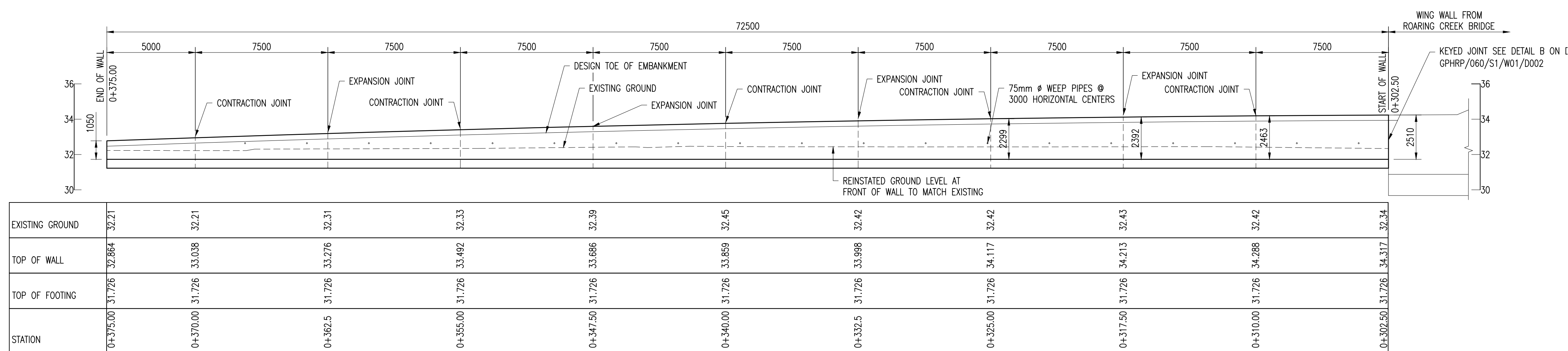
THE GOVERNMENT OF BELIZE
MINISTRY OF WORKS, TRANSPORT
AND NEMO
BELMOPAN,
BELIZE, C. A.

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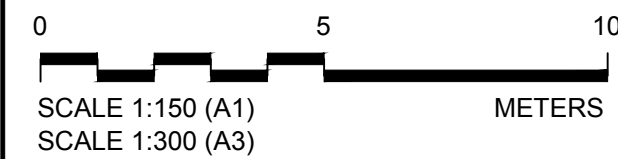
PLAN
SCALE 1:150



PROFILE OF RETAINING WALL
SCALE 1:150

SETTING OUT TABLE					
SETTING OUT POINT	STATION	NORTHING	EASTING	TOP OF WALL ELEVATION	TOP OF FOOTING ELEVATION
SOP-1	0+302.50	1909049.735	309675.635	34.236	31.726
SOP-2	0+375.00	1909029.222	309606.098	32.776	31.726

- Notes:
- FOR GENERAL NOTES SEE SHEET GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D004.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 - ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 - SETTING OUT INFORMATION IS PROVIDED RELATIVE TO PROJECT GRID.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING GPHRP/060/S1/W01/D002.
 - DESIGN SEISMIC LOADS: PGA=0.19 FOR 7% PROBABILITY OF EXCEEDANCE IN 75 YEARS.



100% FINAL DESIGN

C	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	CSL	JSP	MS	22.09.16	100% DESIGN UPDATES AND CLIENT COMMENTS
A	KMJ	JSP	MS	21.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project

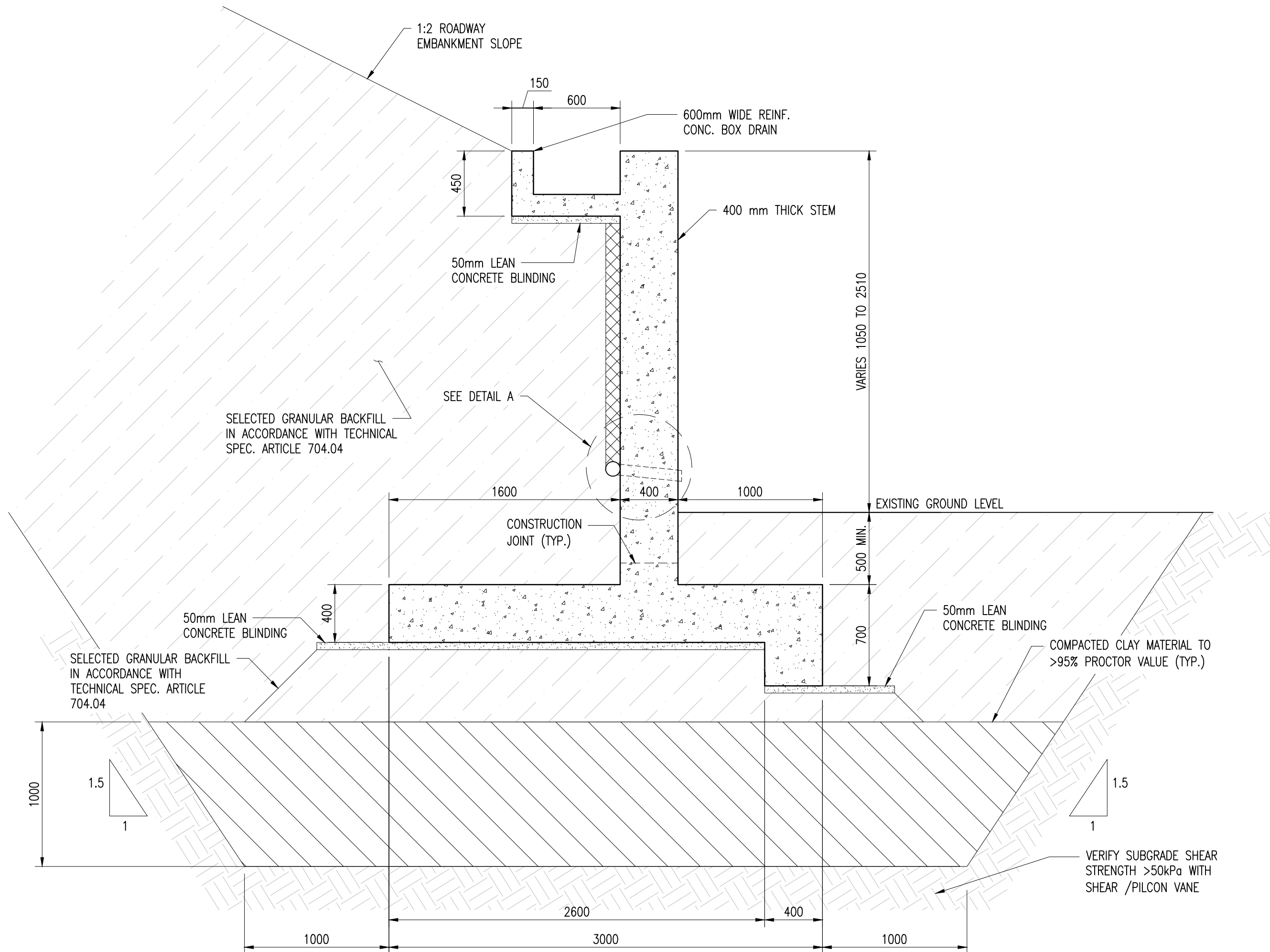
George Price Highway
Rehabilitation Project

Drawing Title

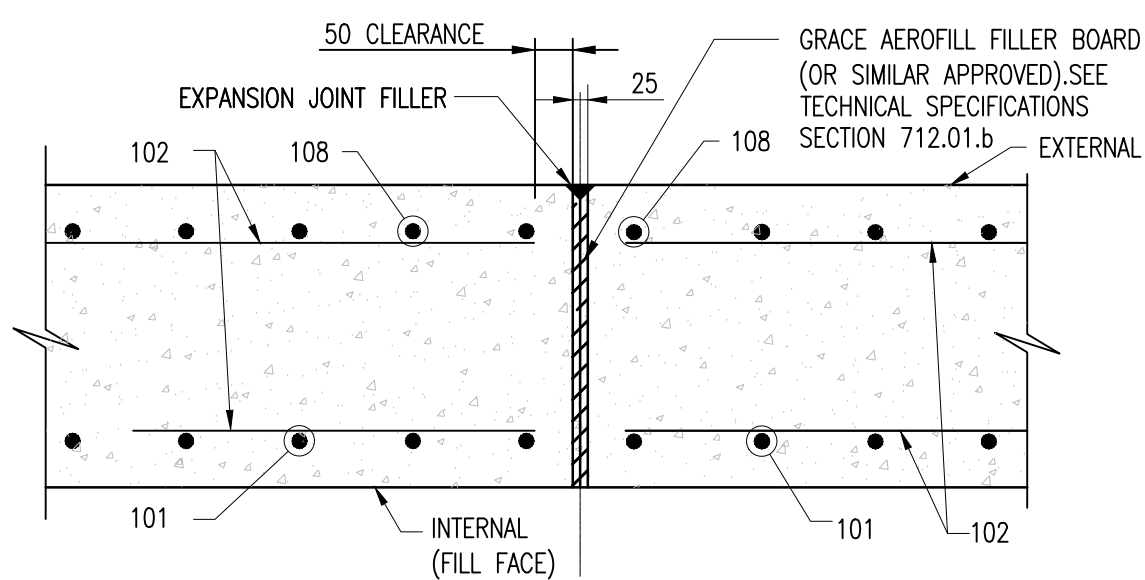
ROARING CREEK
NORTHERN RETAINING WALL
AT STATION 0+302.50 TO 0+375.00
GENERAL ARRANGEMENT

Drawn by KMJ	Date: SEPT 16, 2016
Checked by JSP	Date: SEPT 16, 2016
Authorised by MS	Date: SEPT 16, 2016

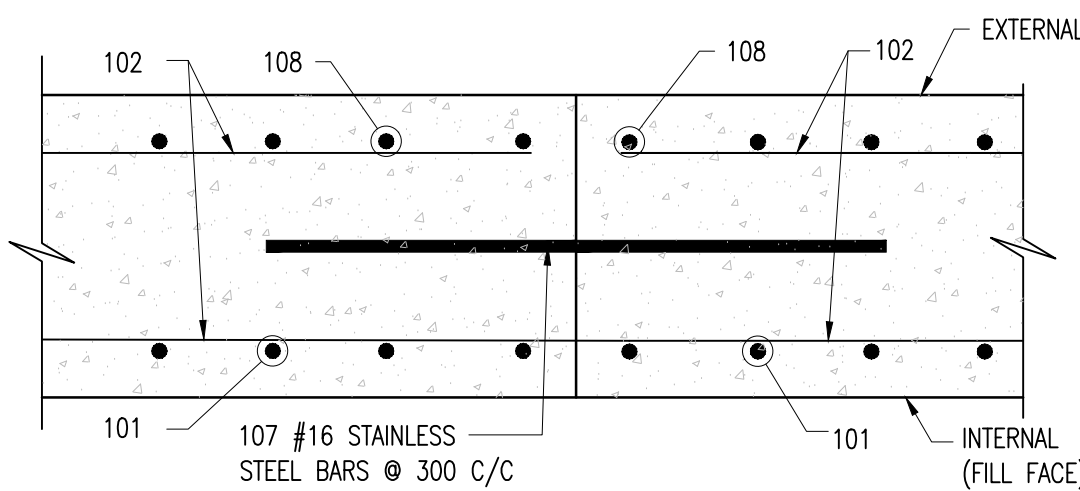
Drawing No.	Revision
GPHRP/060/S1/W01/D001	C
Drawing Scale: As noted on A1	
Plot Scale: 1 : 1	



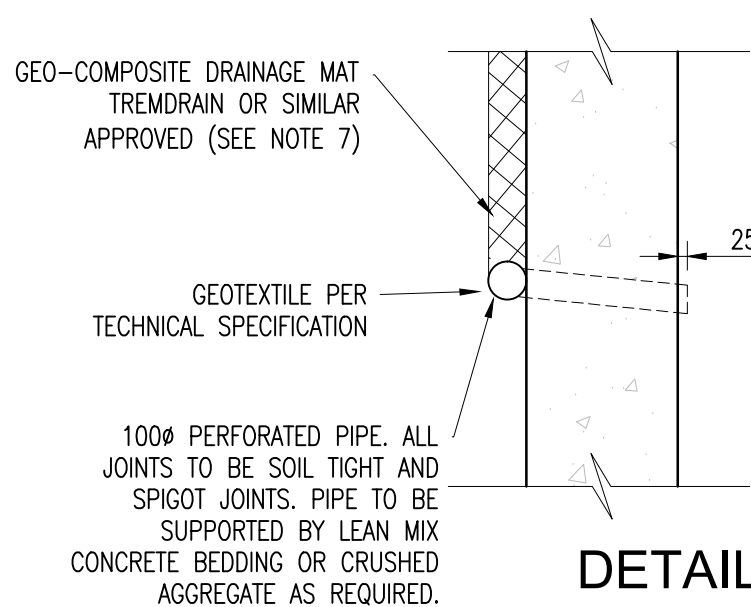
TYPICAL RETAINING WALL SECTION
SCALE 1:25



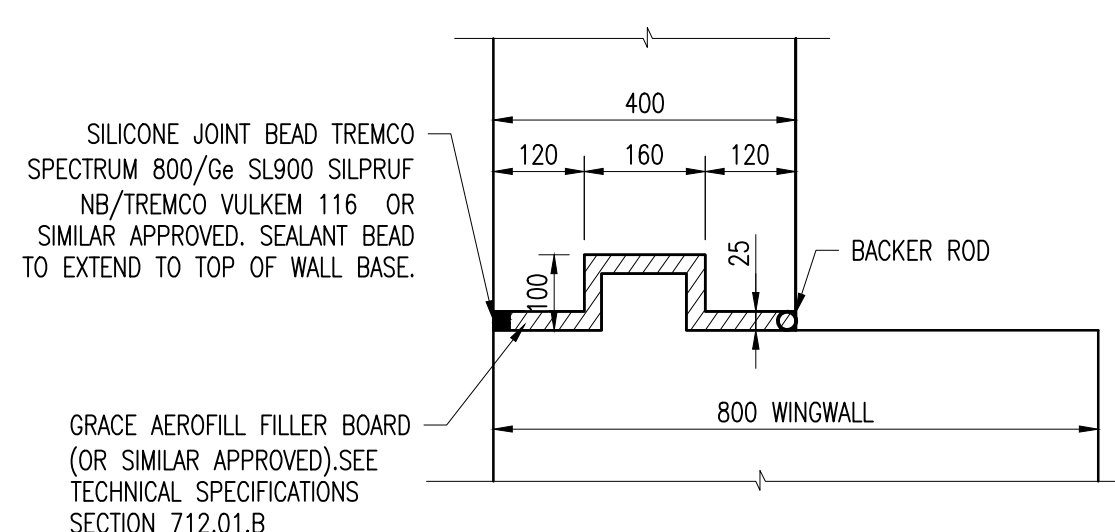
EXPANSION JOINT (TYP.)
SCALE 1:10



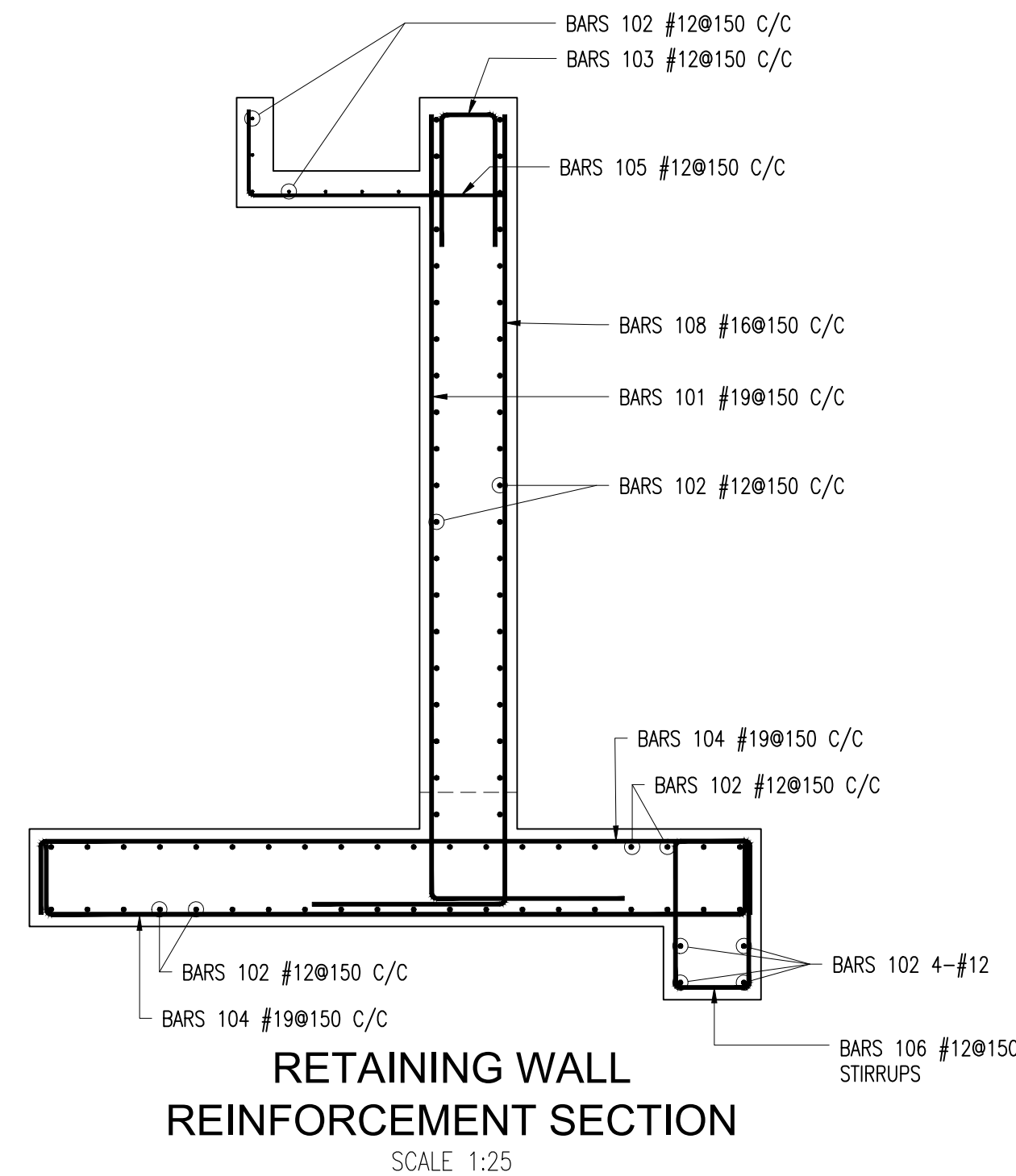
CONTRACTION JOINT (TYP.)
SCALE 1:10



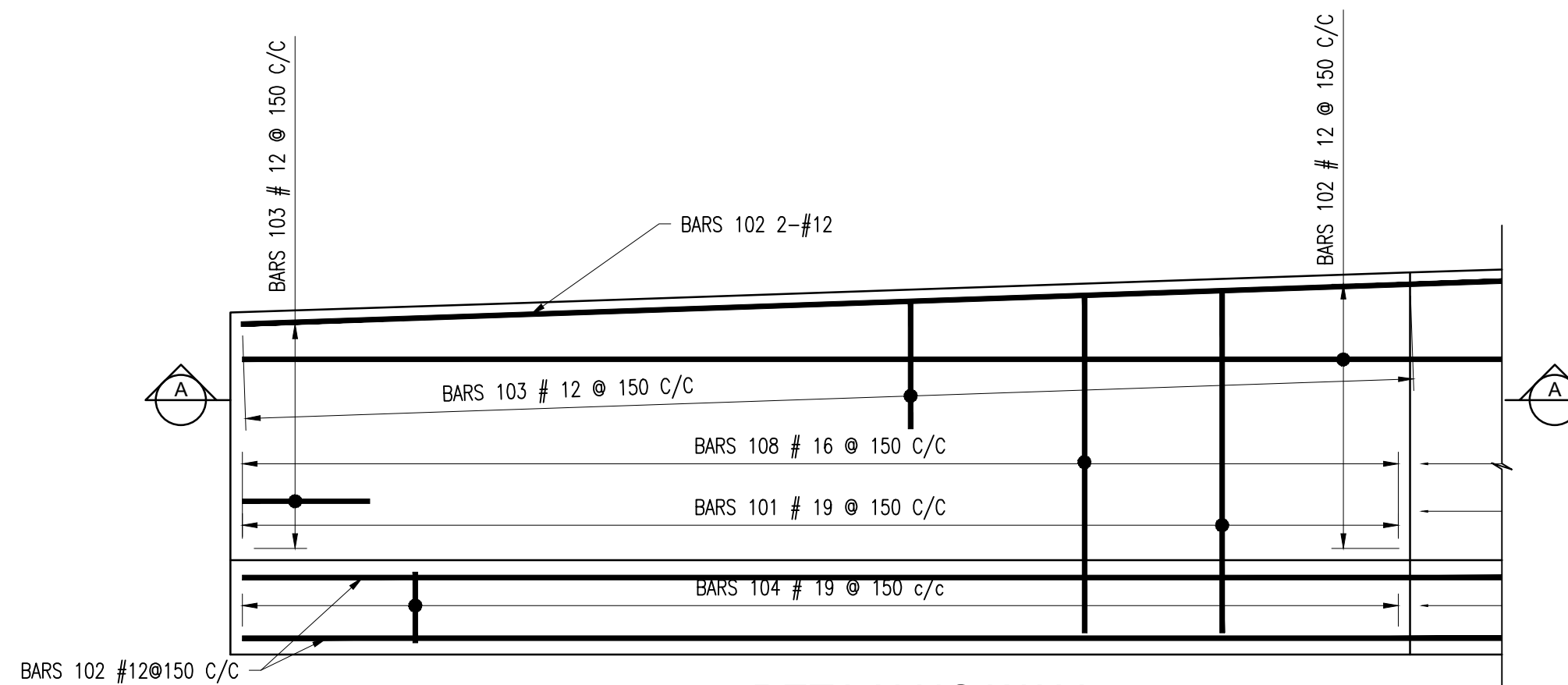
DETAIL A
SCALE 1:20



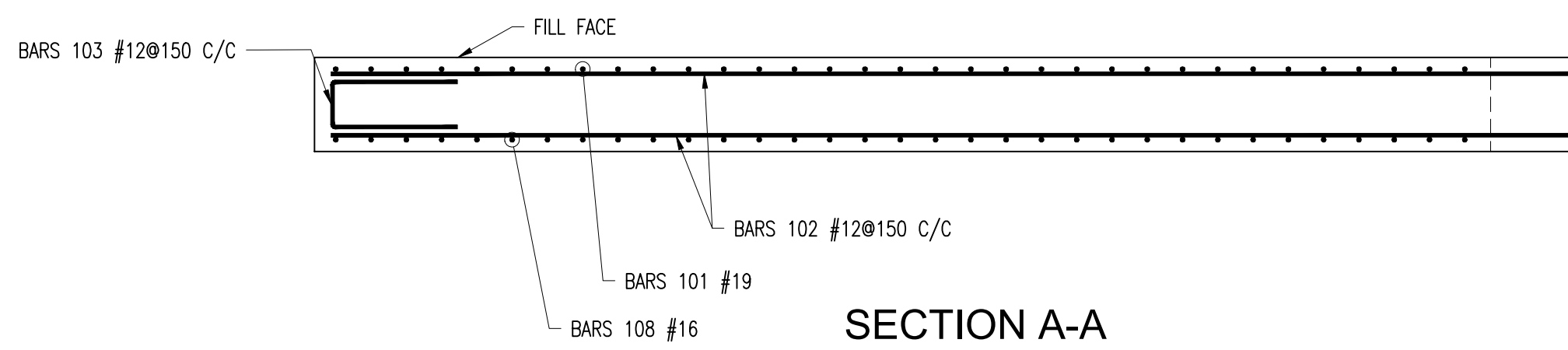
DETAIL B
KEYED JOINT
SCALE 1:10



RETAINING WALL
REINFORCEMENT SECTION
SCALE 1:25



RETAINING WALL
REINFORCEMENT ELEVATION
SCALE 1:25



SECTION A-A
SCALE 1:25

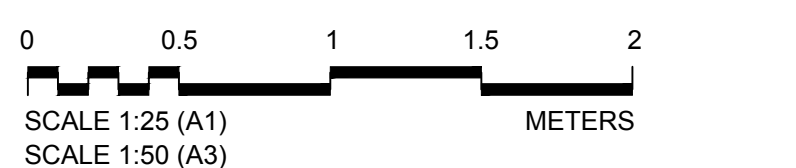
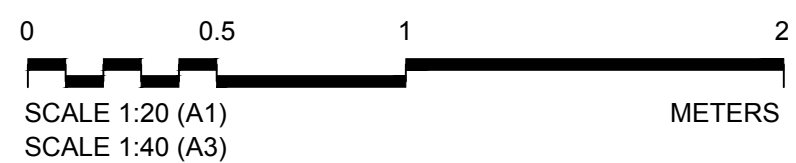
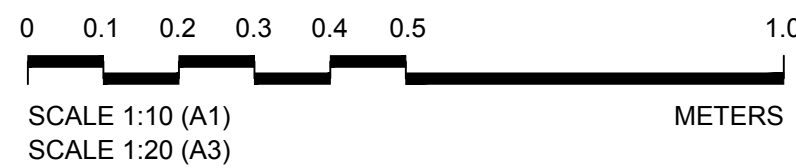
REINFORCING SCHEDULE

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "I" [mm]	Dim "N" [mm]
101	19	10	150		VARIES 1320 TO 2780	790				
102	12	1	150		12000					
103	12	11	150		300	540	540			
104	19	11	150		2900	300	300			
105	12	10	150		750	350				
106	12	4	150	200	600	300				
107	16	1	300		1500					
108	16	10	150		VARIES 1320 TO 2780	720				

Notes:

- FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D004.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- BACKFILLING OF THE STRUCTURE SHALL NOT COMMENCE UNTIL THE WALL HAS ACHIEVED ITS 28 DAY CYLINDER COMPRESSIVE STRENGTH. BACKFILLING OF THE STRUCTURE SHALL BE CARRIED OUT IN STEPS OF UP TO 300mm THICK.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 30MPa.
- ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROOF 30HL OR SIMILAR APPROVED.
- GEO-COMPOSITE DRAINAGE MAT, WEEPHOLES AND PERFORATED PIPES ARE TO BE FITTED AS PER THE SUPPLIERS RECOMMENDATIONS. WEEP HOLES AND PERFORATED PIPES TO TECHNICAL SPECIFICATION 706.08.1e
- REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414 \text{ MPa}$).
- COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.

Rebar Conversion			Splice Details
Imperial #	Metric Dia [mm]	Rebar Ref	[mm]
#3	9.5	#10	420
#4	12.0	#12	540
#5	15.9	#16	720
#6	19.1	#19	790
#8	25.4	#25	1270
#10	32.3	#32	1990



100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
C	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	CSL	JSP	MS	22.09.16	100% DESIGN UPDATES AND CLIENT COMMENTS
A	KMJ	JSP	MS	21.07.16	90% DESIGN ISSUE

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

George Price Highway
Rehabilitation Project

Drawing Title

ROARING CREEK BRIDGE
NORTHERN RETAINING WALL
AT STATION 0+302.50 TO 0+375.00
TYPICAL SECTION &
REINFORCEMENT DETAILS

Drawn by: KMJ Date: JULY 21, 2016
Checked by: JSP Date: JULY 21, 2016
Authorised by: MS Date: JULY 21, 2016

Drawing No. GPHRP/060/S1/W01/D002 Revision C

Drawing Scale: As noted on A1

Plot Scale: 1 : 1

GEORGE PRICE HIGHWAY REHABILITATION
SECTION 1 STA. 0+000 TO 0+485
100% DESIGN PACKAGE

RETAINING WALL 02 (STRUCTURAL)

SECTION 1 DRAWING SET

Sheet Number	Sheet Title
GPHRP-060-S1-W02-D001	ROARING CREEK SOUTHERN RETAINING WALL AT STATION 0+305.13 TO 0+375.00 GENERAL ARRANGEMENT
GPHRP-060-S1-W02-D002	ROARING CREEK SOUTHERN RETAINING WALL AT STATION 0+305.13 TO 0+375.00 TYPICAL SECTION & REINFORCEMENT DETAILS

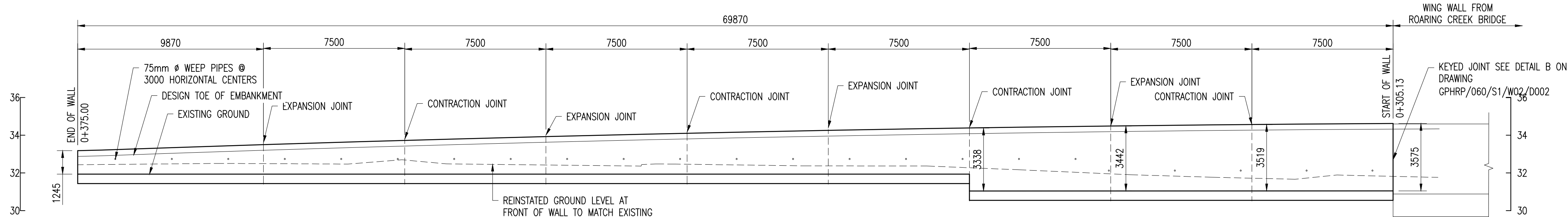
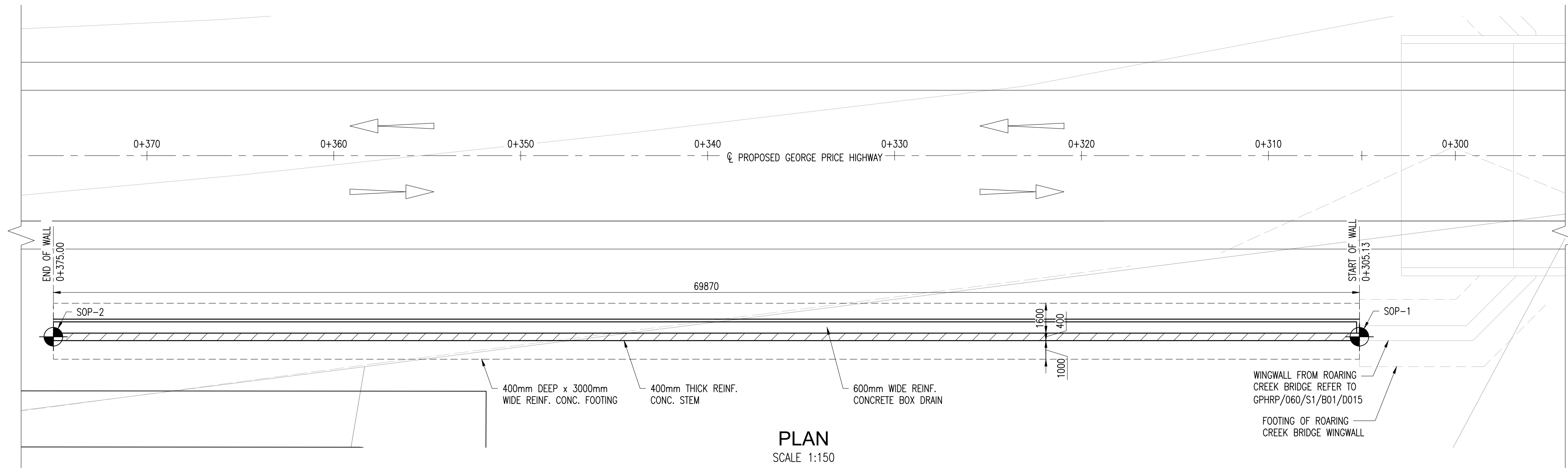
Client:



THE GOVERNMENT OF BELIZE
MINISTRY OF WORKS, TRANSPORT
AND NEMO
BELMOPAN,
BELIZE, C. A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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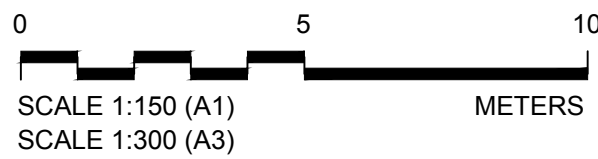
EXISTING GROUND	0+375.00	0+365.13	0+357.63	0+350.13	0+342.63	0+335.13	0+327.63	0+320.13	0+312.63	0+305.13
TOP OF WALL	32.42	33.192	33.420	33.625	33.798	33.949	34.079	34.186	34.261	34.317
TOP OF FOOTING	31.933	31.933	31.933	31.933	31.933	31.933	31.933	31.933	31.933	31.933
STATION	0+375.00	0+365.13	0+357.63	0+350.13	0+342.63	0+335.13	0+327.63	0+320.13	0+312.63	0+305.13

PROFILE OF RETAINING WALL
SCALE 1:150

SETTING OUT TABLE					
SETTING OUT POINT	STATION	NORTHING	EASTING	TOP OF WALL ELEVATION	TOP OF FOOTING ELEVATION
SOP-1	0+305.13	1909030.378	309678.583	34.620	31.045
SOP-2	0+375.00	1909010.609	309611.570	33.178	31.933

Notes:

- FOR GENERAL NOTES SEE SHEET GPHRP/060/S1/B00/D001 THROUGH GPHRP/060/S1/B00/D004.
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- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- SETTING OUT INFORMATION IS PROVIDED RELATIVE TO PROJECT GRID.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING GPHRP/060/S1/W02/D002.
- DESIGN SEISMIC LOADS: PGA=0.19 FOR 7% PROBABILITY OF EXCEEDANCE IN 75 YEARS.



100% FINAL DESIGN

C	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	CSL	JSP	MS	16.09.16	100% DESIGN UPDATES AND CLIENT COMMENTS
A	KMJ	JSP	MS	21.07.16	90% DESIGN ISSUE
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

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Project

George Price Highway
Rehabilitation Project

Drawing Title

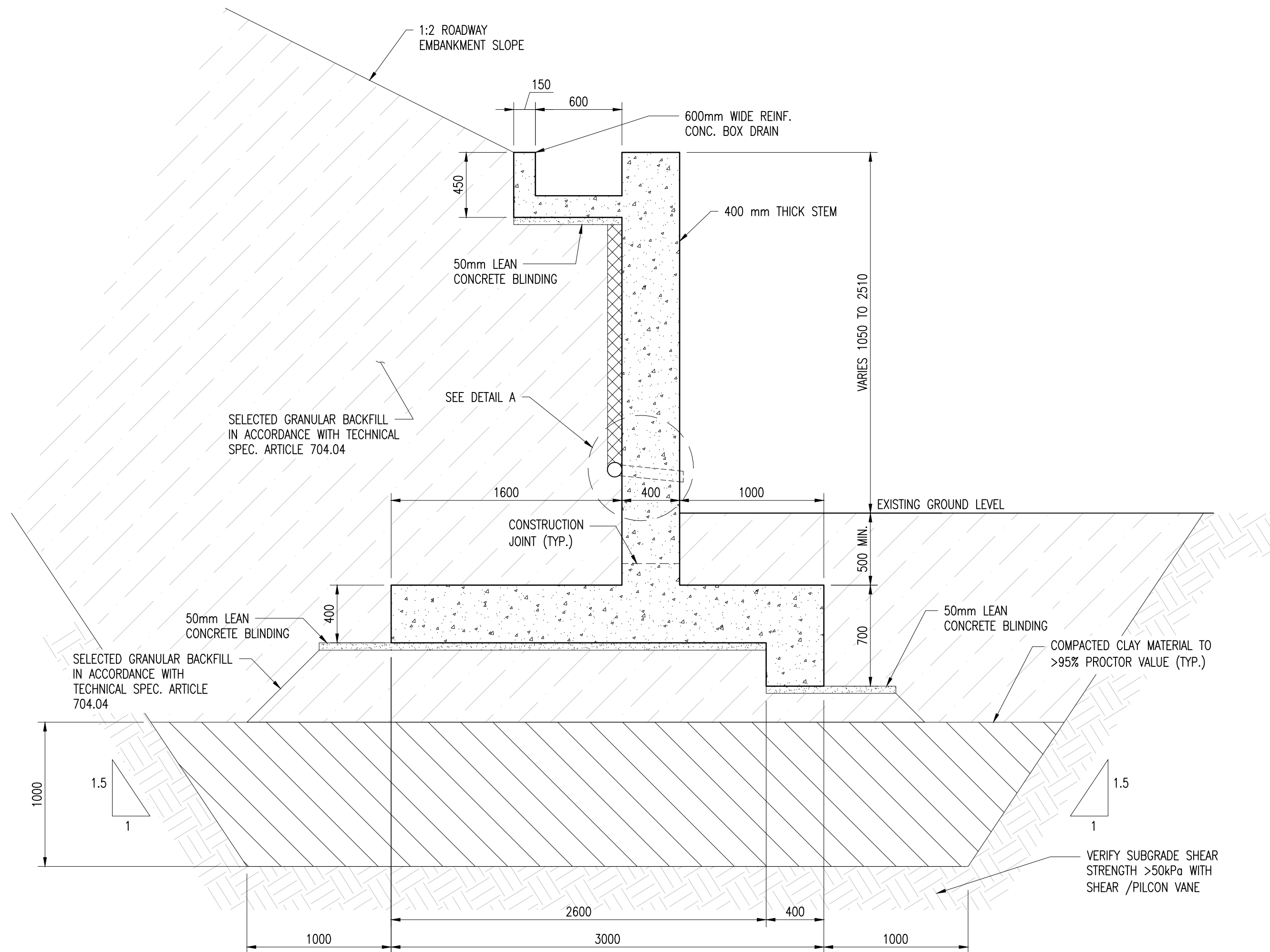
ROARING CREEK
SOUTHERN RETAINING WALL
AT STATION 0+305.13 TO 0+375.00
GENERAL ARRANGEMENT

Drawn by KMJ	Date: JULY 21, 2016
Checked by JSP	Date: SEPT 16, 2016
Authorised by MS	Date: SEPT 16, 2016

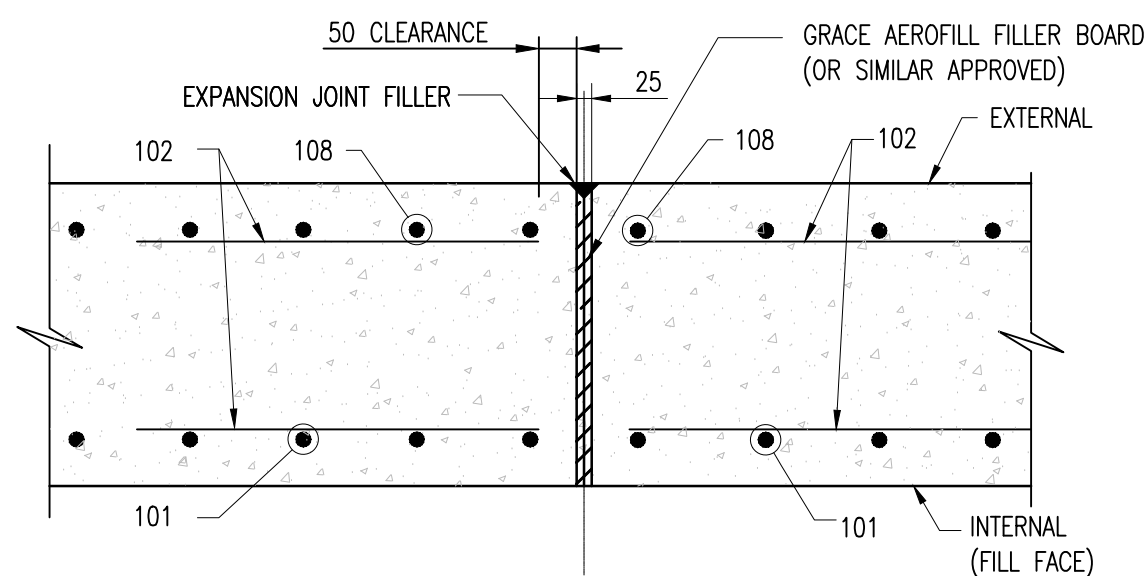
Drawing No.	Revision
GPHRP/060/S1/W02/D001	C

Drawing Scale: As noted on A1

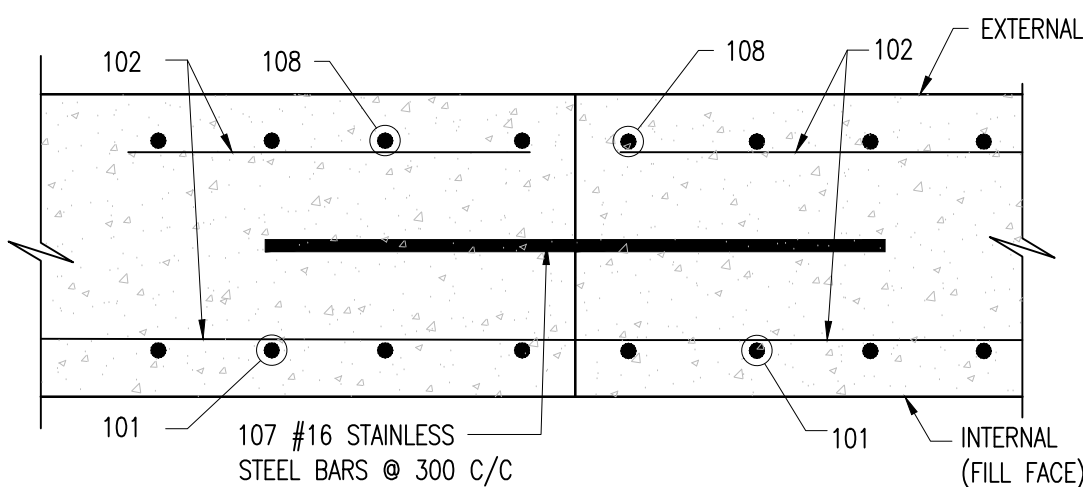
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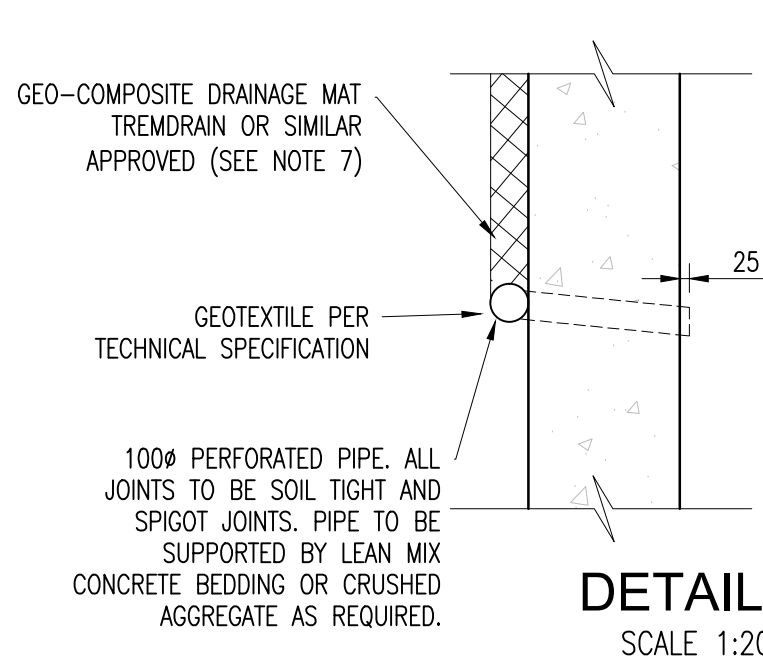
TYPICAL RETAINING WALL SECTION
SCALE 1:25



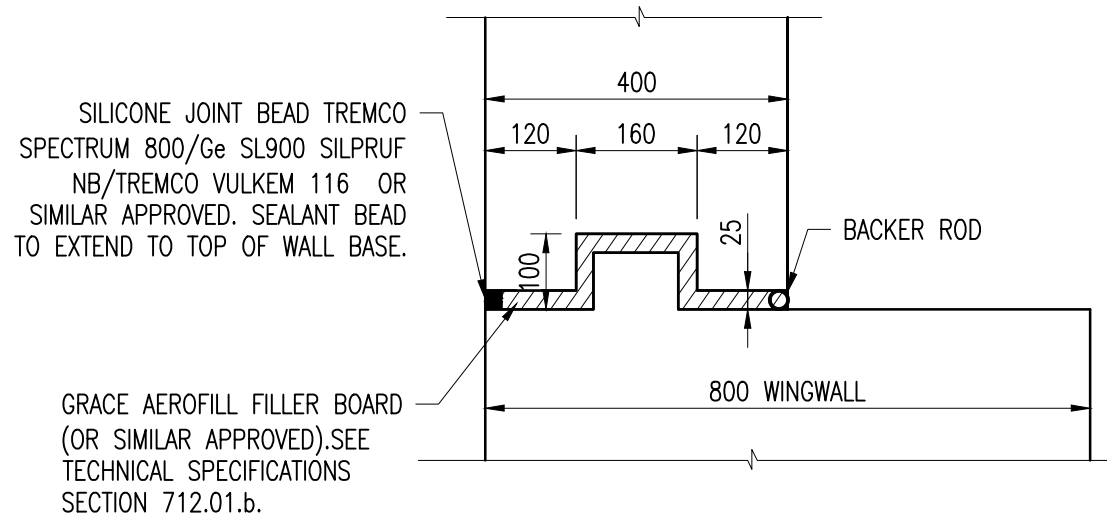
EXPANSION JOINT (TYP.)
SCALE 1:10



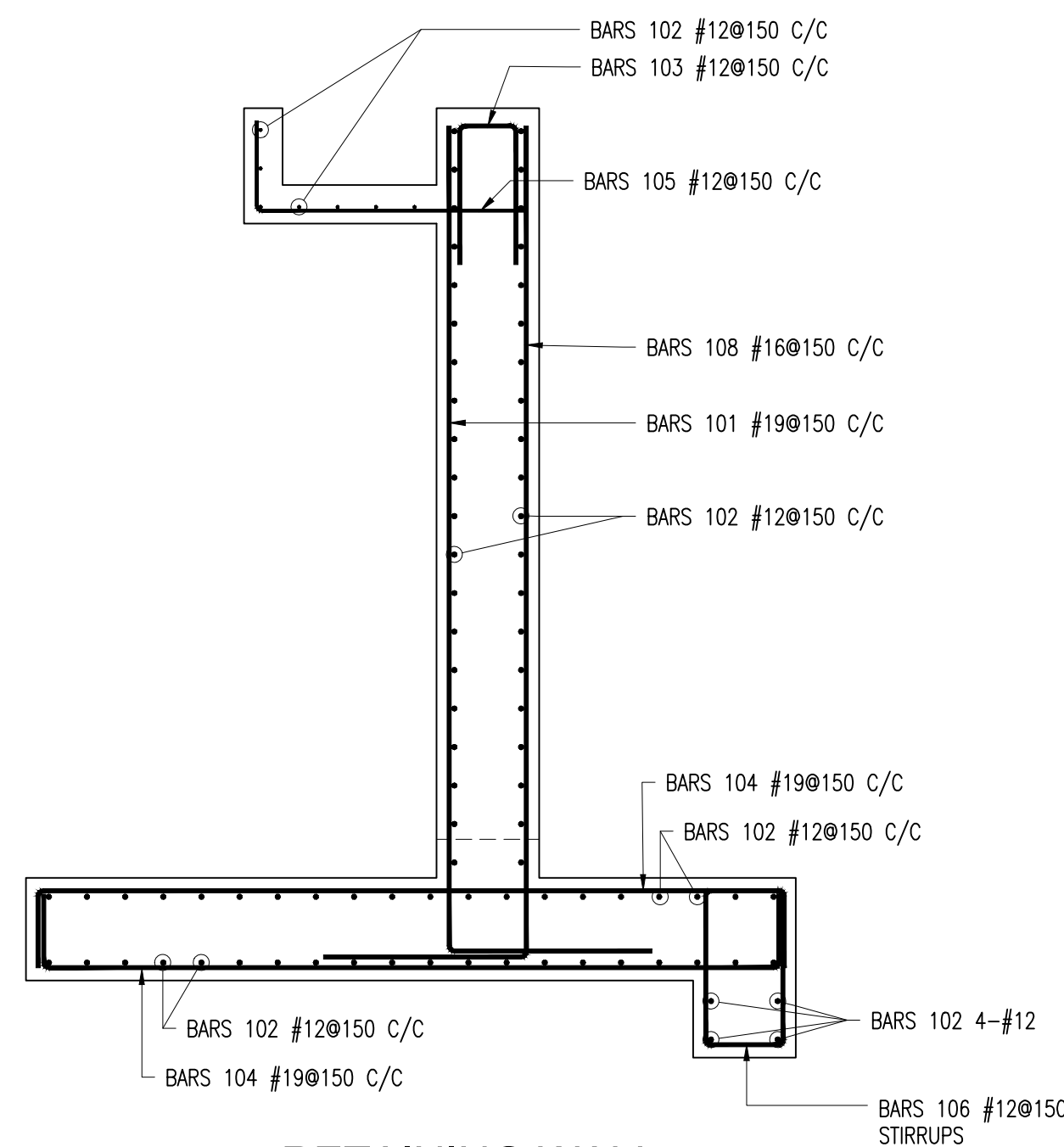
CONTRACTION JOINT (TYP.)
SCALE 1:10



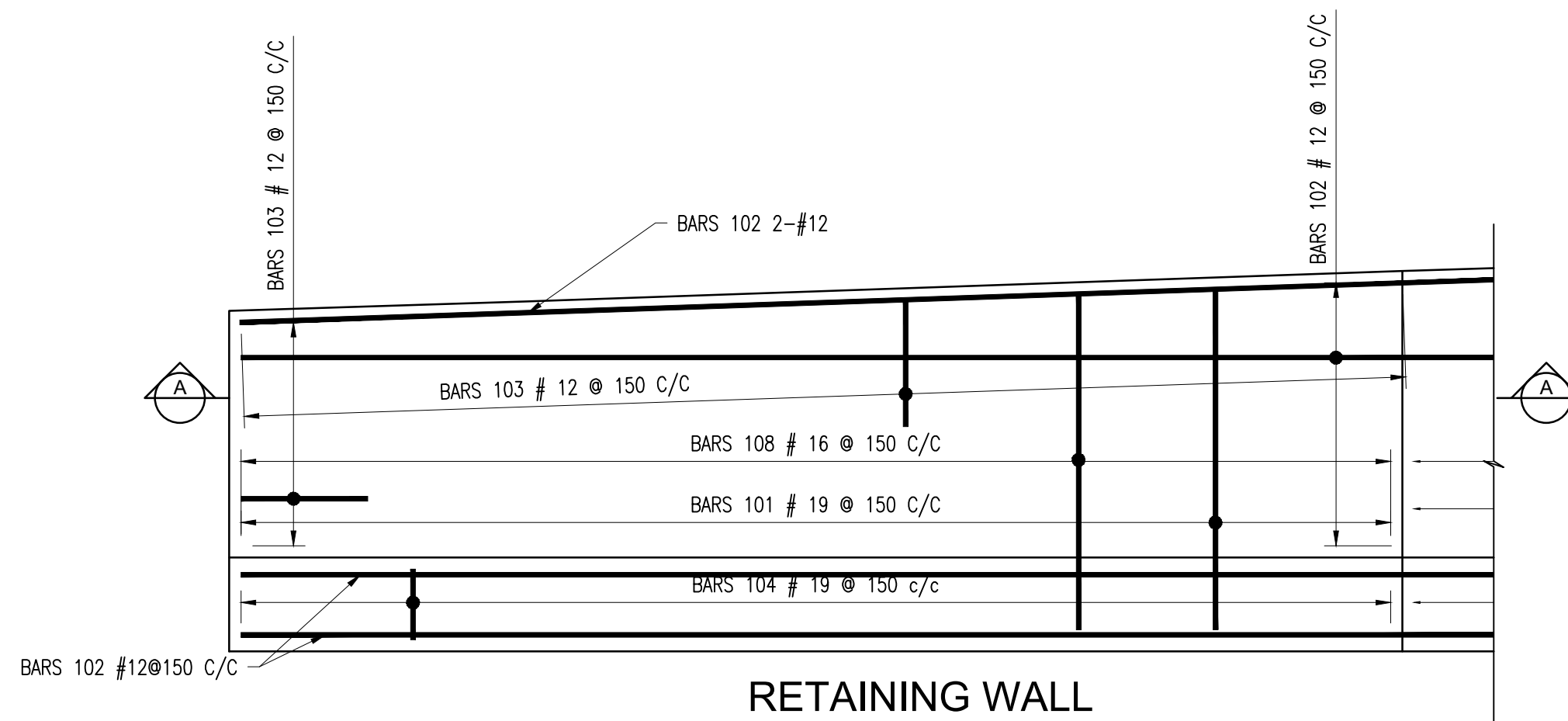
DETAIL A
SCALE 1:20



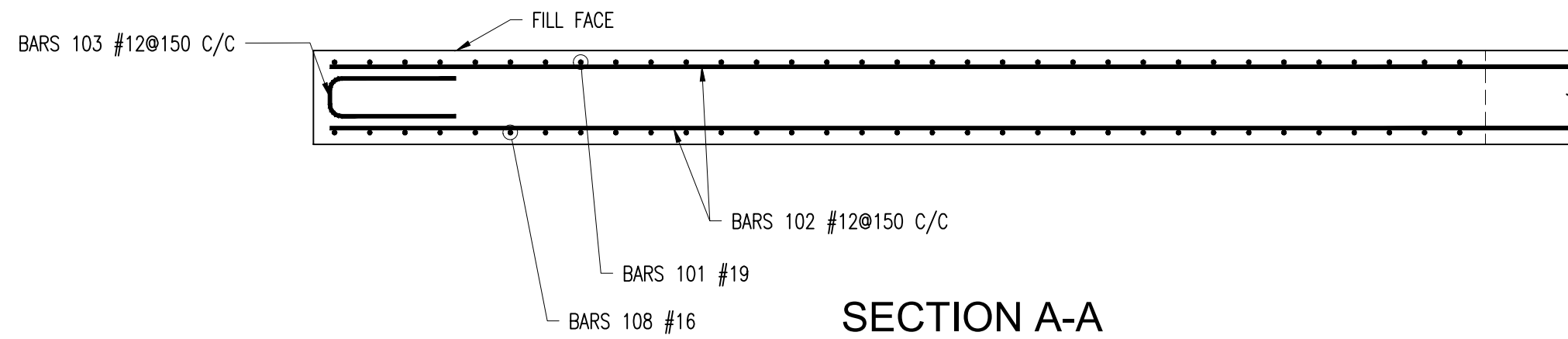
DETAIL B
KEYED JOINT
SCALE 1:10



RETAINING WALL
REINFORCEMENT SECTION
SCALE 1:25



RETAINING WALL
REINFORCEMENT ELEVATION
SCALE 1:25



SECTION A-A
SCALE 1:25

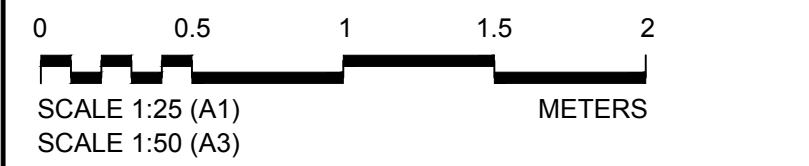
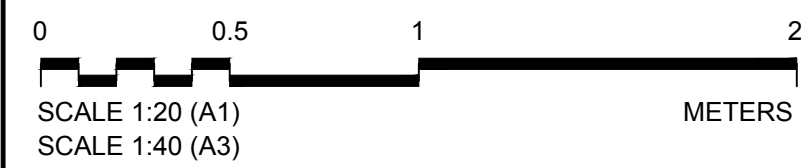
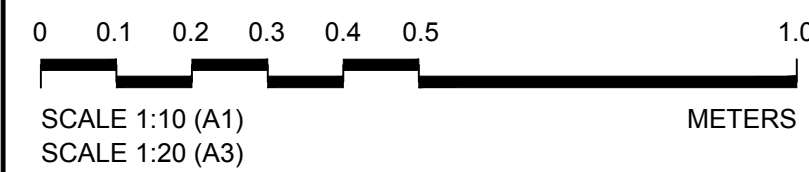
REINFORCING SCHEDULE

Bar	Size [mm]	Type	Spacing [mm]	Dim "A" [mm]	Dim "B" [mm]	Dim "C" [mm]	Dim "D" [mm]	Dim "E" [mm]	Dim "I" [mm]	Dim "N" [mm]
101	19	10	150		VARIES 1515 TO 3845	790				
102	12	1	150		12000					
103	12	11	150		300	540	540			
104	19	11	150		2900	300	300			
105	12	10	150		750	350				
106	12	4	150	200	600	300				
107	16	1	300		1500					
108	16	10	150		VARIES 1515 TO 3845	720				

Notes:

- FOR GENERAL NOTES SEE SHEETS GPHRP/060/S1/B00/D001 TO GPHRP/060/S1/B00/D004.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- BACKFILLING OF THE STRUCTURE SHALL NOT COMMENCE UNTIL THE WALL HAS ACHIEVED ITS 28 DAY CYLINDER COMPRESSIVE STRENGTH. BACKFILLING OF THE STRUCTURE SHALL BE CARRIED OUT IN STEPS OF UP TO 300mm THICK.
- CONCRETE MINIMUM 28 DAY CYLINDER COMPRESSIVE STRENGTH TO BE 30MPa.
- ALL BURIED SURFACE OF CONCRETE (EXCLUDING BLINDING) TO BE COATED WITH RUBBER ENRICHED BITUMEN EMULSION - FOSROC NITOPROOF 30HL OR SIMILAR APPROVED.
- GEO-COMPOSITE DRAINAGE MAT, WEEPHOLES AND PERFORATED PIPES ARE TO BE FITTED AS PER THE SUPPLIERS RECOMMENDATIONS. WEEP HOLES AND PERFORATED PIPES TO TECHNICAL SPECIFICATIONS 706.08.1.e.
- REINFORCEMENT SHALL BE UNCOATED DEFORMED BARS TO ASTM A 615 GRADE 60 ($f_y = 414 \text{ MPa}$).
- COVER TO REINFORCEMENT SHALL BE 50mm EXCEPT WHERE STATED OTHERWISE.

Rebar Conversion			Splice Details
Imperial #	Metric Dia [mm]	Rebar Ref	[mm]
#3	9.5	#10	420
#4	12.0	#12	540
#5	15.9	#16	720
#6	19.1	#19	790
#8	25.4	#25	1270
#10	32.3	#32	1990



100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
C	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
B	CSL	JSP	MS	22.09.16	100% DESIGN UPDATES AND CLIENT COMMENTS
A	KMJ	JSP	MS	21.07.16	90% DESIGN ISSUE

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com

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Project

George Price Highway
Rehabilitation Project

Drawing Title

ROARING CREEK BRIDGE
SOUTHERN RETAINING WALL
AT STATION 0+305.13 TO 0+375.00
TYPICAL SECTION &
REINFORCEMENT DETAILS

Drawn by: KMJ Date: SEPT 16, 2016
Checked by: JSP Date: SEPT 16, 2016
Authorised by: MS Date: SEPT 16, 2016

Drawing No. **GPHRP/060/S1/W02/D002** Revision **C**

Drawing Scale: As noted on A1

Plot Scale: 1 : 1

GEORGE PRICE HIGHWAY REHABILITATION
SECTION 1 STA. 0+000 TO 0+485
100% FINAL DESIGN PACKAGE

ROARING CREEK BRIDGE SCOUR PROTECTION DRAWINGS

SHEET INDEX

Sheet Number	Sheet Title
GPHRP-070-S1-B01-D001	ROARING CREEK BRIDGE SCOUR PROTECTION LAYOUT & BRIDGE PROFILE
GPHRP-070-S1-B01-D002	ROARING CREEK BRIDGE SCOUR PROTECTION SECTION 0+000 TO 0+010
GPHRP-070-S1-B01-D003	ROARING CREEK BRIDGE SCOUR PROTECTION SECTION 0+015 TO 0+025
GPHRP-070-S1-B01-D004	ROARING CREEK BRIDGE SCOUR PROTECTION SECTION 0+030 TO 0+040
GPHRP-070-S1-B01-D005	ROARING CREEK BRIDGE SCOUR PROTECTION SECTION 0+045 TO 0+055
GPHRP-070-S1-B01-D006	ROARING CREEK BRIDGE SCOUR PROTECTION SECTION 0+060 TO 0+070
GPHRP-070-S1-B01-D007	ROARING CREEK BRIDGE SCOUR PROTECTION SECTION 0+075 TO 0+080
GPHRP-070-S1-B01-D008	ROARING CREEK BRIDGE AT STATION 0+248.69SCOUR PROTECTION SECTION DETAILS

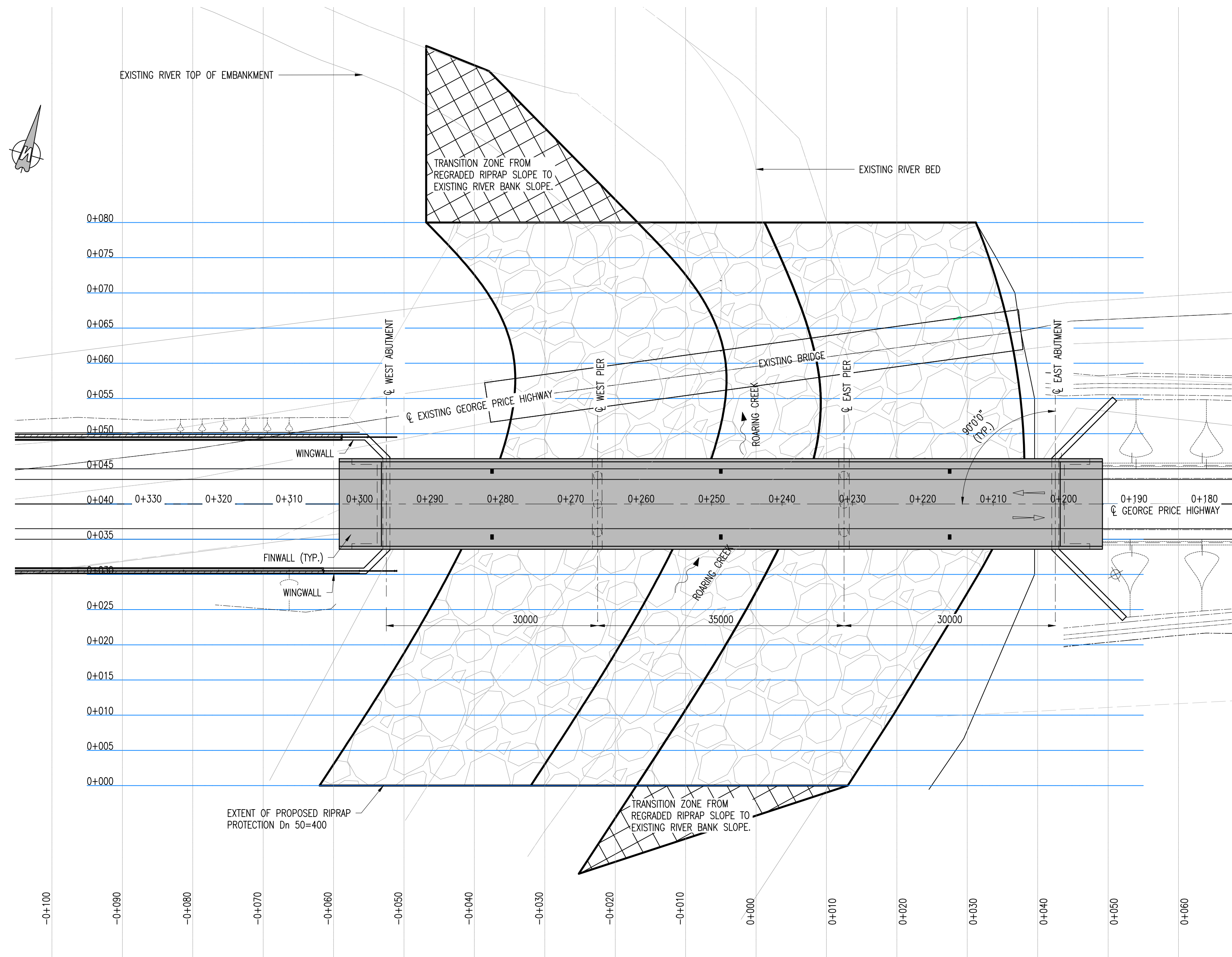
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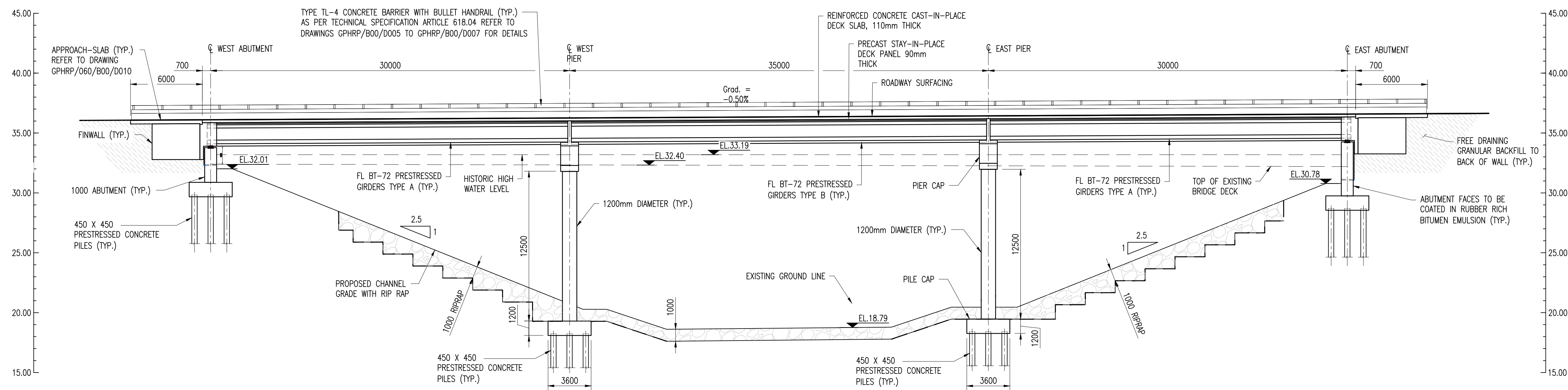
THE GOVERNMENT OF BELIZE
MINISTRY OF WORKS, TRANSPORT
AND NEMO
BELMOPAN,
BELIZE, C. A.

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PLAN
SCALE 1:400



BRIDGE SECTION
SCALE 1:200

Notes:

RIPRAP SPECIFICATION :

1. THE NOMINAL MEAN STONE SIZE FOR THE RIPRAP SHALL BE D_n50 400mm CORRESPONDING TO A WEIGHT OF 165kg (BASED ON SPECIFIC GRAVITY OF 2.6). EACH LOAD OF RIPRAP SHALL BE WELL GRADED FROM THE SMALLEST TO THE MAXIMUM SIZE SPECIFIED TO THE APPROVAL OF THE ENGINEER.
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100% SMALLER THAN D_n=650mm OR W=710Kg
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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

Revision	By	Checked	Approved	Date	Description
B	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
A	CSL	JSP	MS	21.09.16	100% DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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Project

George Price Highway
Rehabilitation Project

Drawing Title

ROARING CREEK
BRIDGE SCOUR PROTECTION
LAYOUT &
BRIDGE PROFILE

Drawn by: CSL

Date: SEPT 21, 2016

Checked by: JSP

Date: SEPT 21, 2016

Authorised by: MS

Date: SEPT 21, 2016

Drawing No.

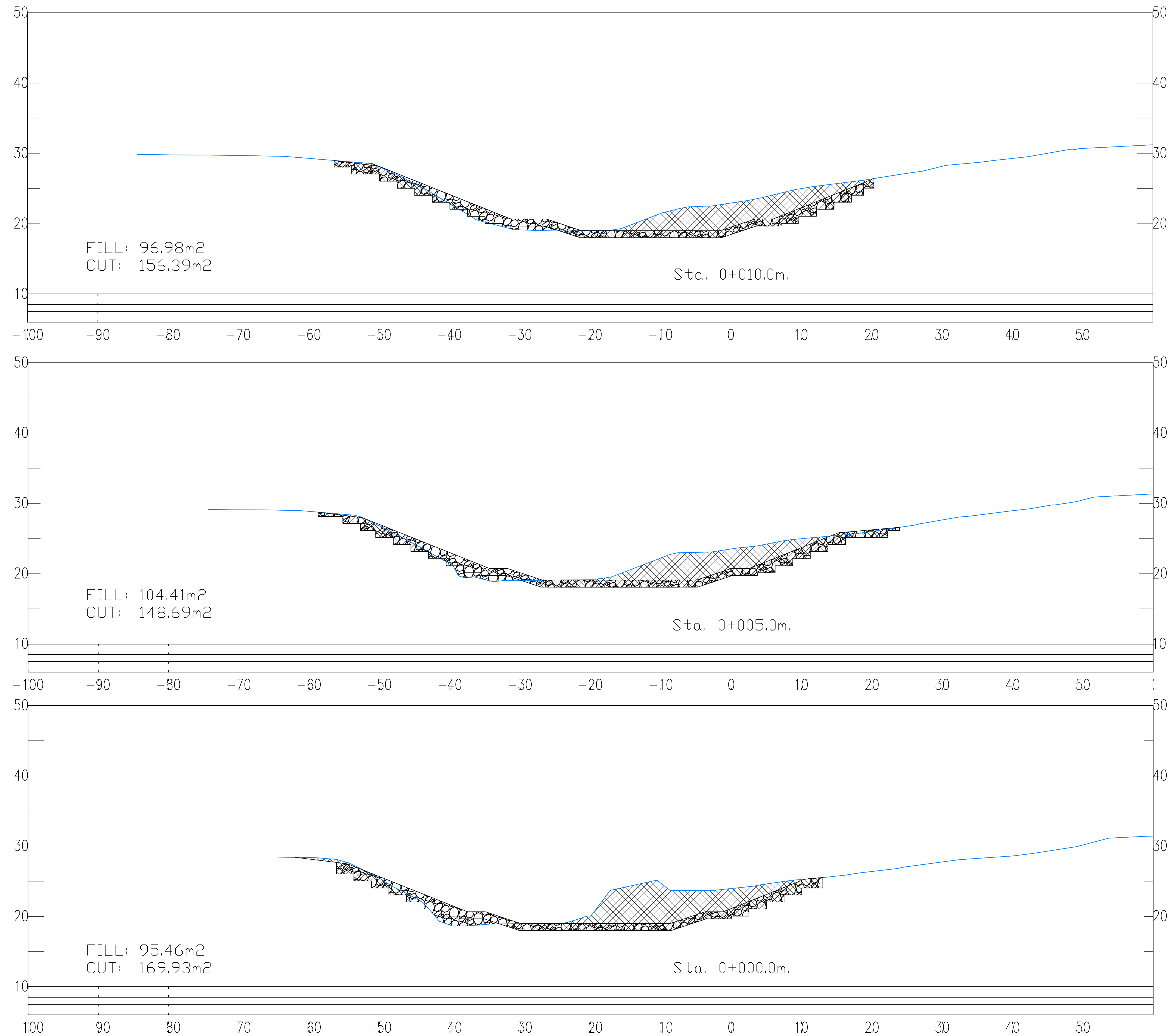
Revision

GPHRP/070/S1/B01/D001

B

Drawing Scale: As noted on A1

Plot Scale: 1 : 1



Notes:

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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

B	CSL	JSP	MS	19/10/16	STAMP UPDATED – NO CHANGE FROM 100% DESIGN
	CSL	JSP	MS	21/09/16	
A	CSL	JSP	MS	21/09/16	100% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

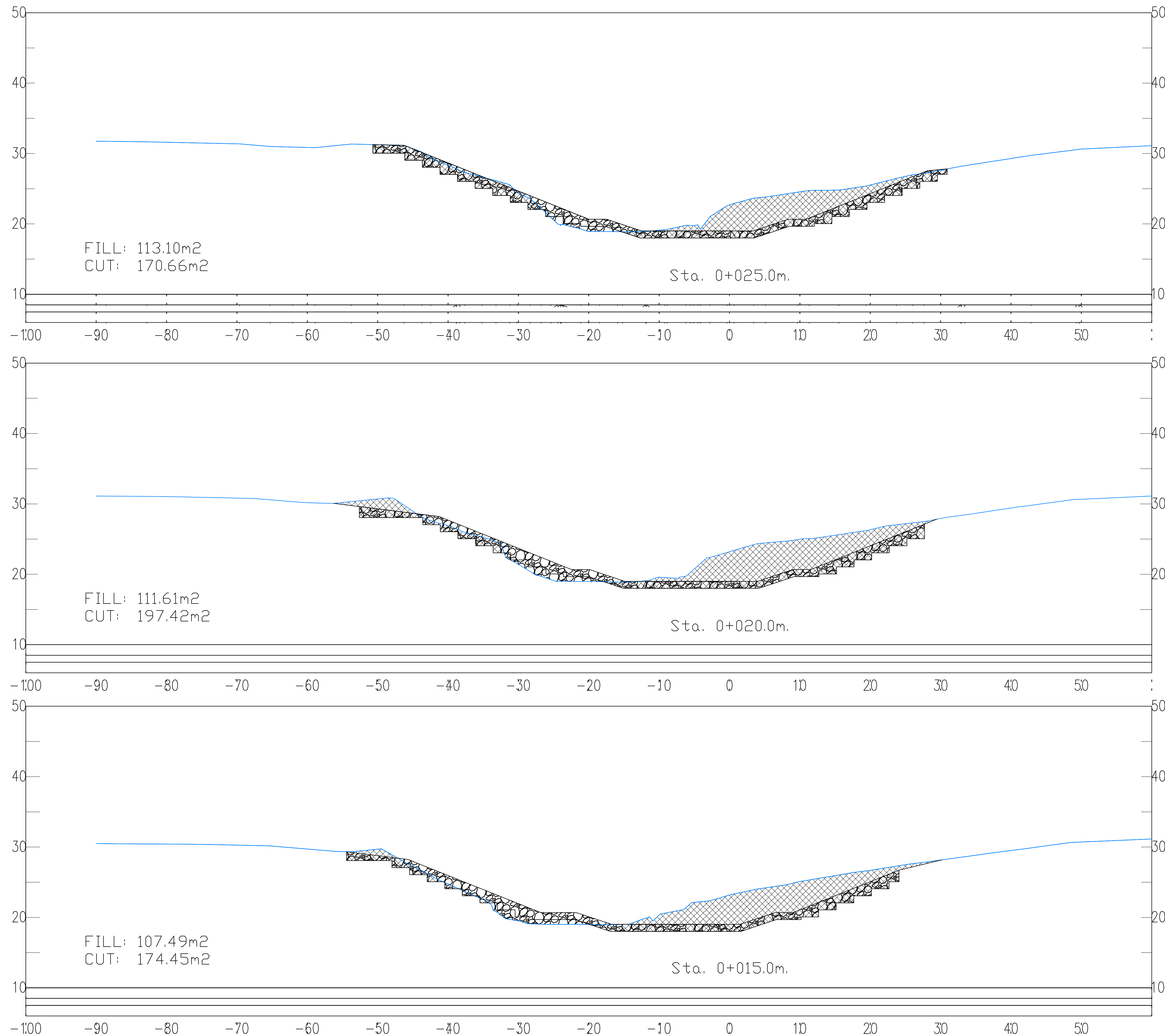
ROARING CREEK
BRIDGE SCOUR PROTECTION
SECTION 0+000 TO 0+010

Drawn by	CSL	Date:	SEPT 21, 2016
Checked by	JSP	Date:	SEPT 21, 2016
Authorised by	MS	Date:	SEPT 21, 2016

Drawing No.	Revision
GPHRP/070/S1/B01/D002	B

Drawing Scale: 1:300

Plot Scale: 1 : 1



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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

B	CSL	JSP	MS	19.10.16	STAMP UPDATED – NO CHANGE FROM 100% DESIGN
A	CSL	JSP	MS	21.08.16	
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
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Project

George Price Highway
Rehabilitation Project

Drawing Title

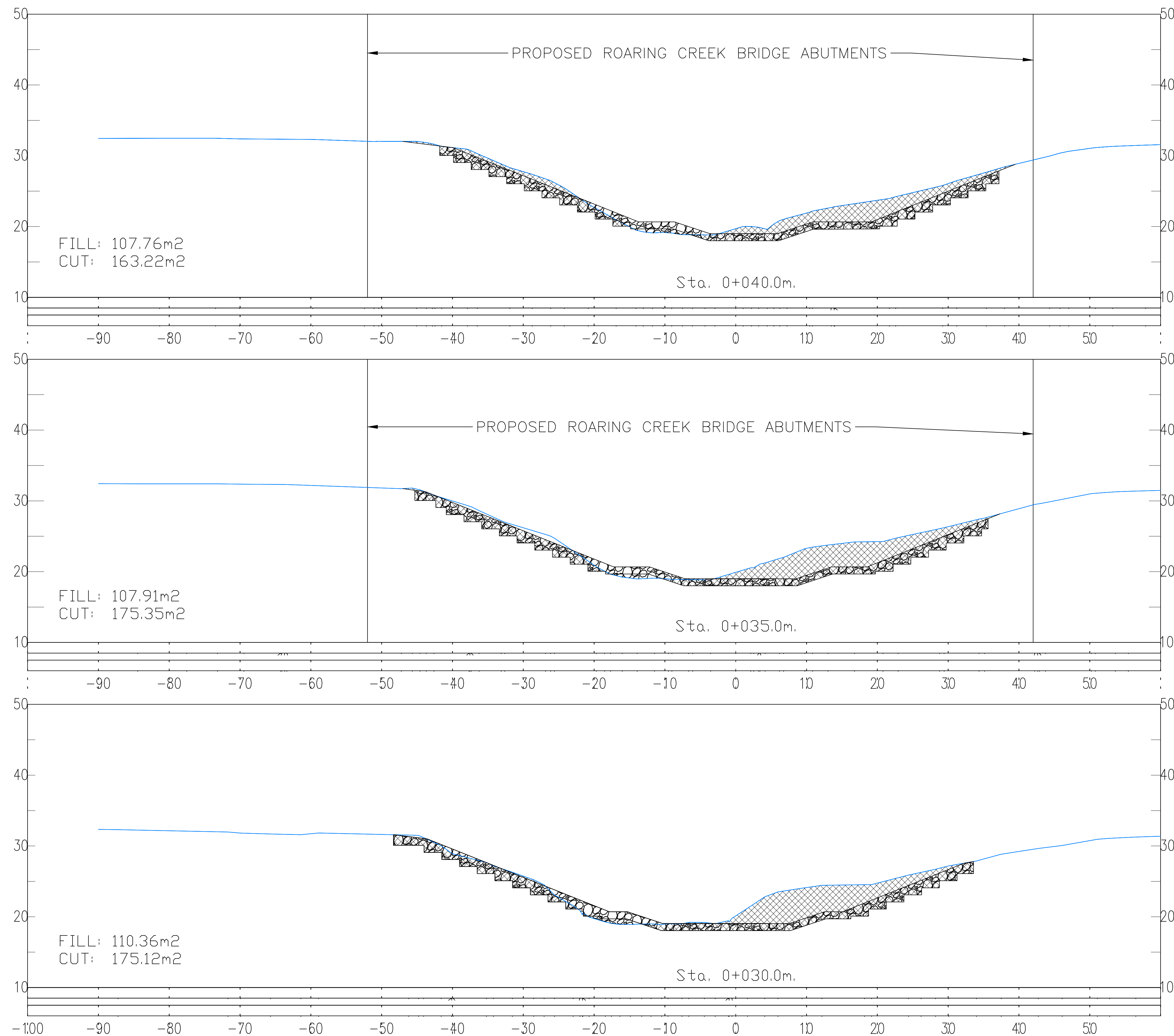
ROARING CREEK
BRIDGE SCOUR PROTECTION
SECTION 0+015 TO 0+025

Drawn by CSL	Date: SEPT 21, 2016
Checked by JSP	Date: SEPT 21, 2016
Authorised by MS	Date: SEPT 21, 2016

Drawing No.	Revision
GPHRP/070/S1/B01/D003	B

Drawing Scale: 1:300

Plot Scale: 1 : 1



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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

B	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
A	CSL	JSP	MS	21.08.16	
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

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Project

George Price Highway
Rehabilitation Project

Drawing Title

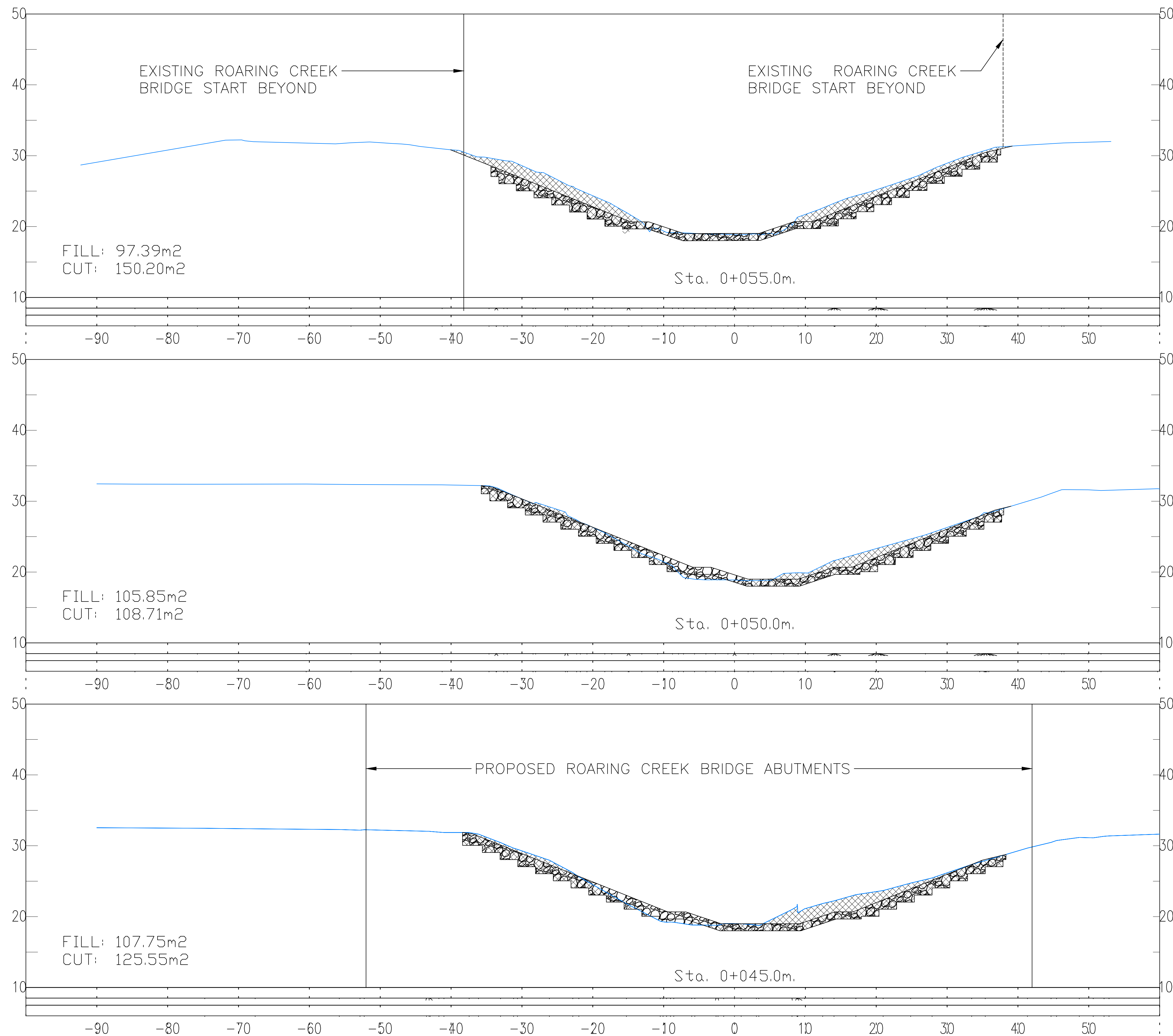
ROARING CREEK
BRIDGE SCOUR PROTECTION
SECTION 0+030 TO 0+040

Drawn by CSL	Date: SEPT 21, 2016
Checked by JSP	Date: SEPT 21, 2016
Authorised by MS	Date: SEPT 21, 2016

Drawing No.	Revision
GPHRP/070/S1/B01/D004	B

Drawing Scale: 1:300

Plot Scale: 1 : 1



Notes:

RIPRAP SPECIFICATION :

1. THE NOMINAL MEAN STONE SIZE FOR THE RIPRAP SHALL BE D_n50 400mm CORRESPONDING TO A WEIGHT OF 165kg (BASED ON SPECIFIC GRAVITY OF 2.6). EACH LOAD OF RIPRAP SHALL BE WELL GRADED FROM THE SMALLEST TO THE MAXIMUM SIZE SPECIFIED TO THE APPROVAL OF THE ENGINEER.
2. THE RIPRAP MATERIAL SHALL CONFORM TO THE FOLLOWING UPPER AND LOWER SIZE LIMITS BY ADOPTING THE FOLLOWING GRADING CHARACTERISTICS BY SIZE AND WEIGHT:

100% SMALLER THAN D_n=650mm OR W=710Kg
AT LEAST 20% LARGER THAN D_n=500mm OR W=325Kg
AT LEAST 50% LARGER THAN D_n=400mm OR W=165Kg
AT LEAST 80% LARGER THAN D_n=230mm OR W=030Kg

D_n IS THE SIDE LENGTH OF THE EQUIVALENT CUBE OF STONE. EACH LOAD OF RIPRAP SHALL BE WELL GRADED FROM THE SMALLEST TO THE MAXIMUM SIZE SPECIFIED TO THE APPROVAL OF THE ENGINEER.
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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

B	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
A	CSL	JSP	MS	21.08.16	
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8683
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Project

George Price Highway
Rehabilitation Project

Drawing Title

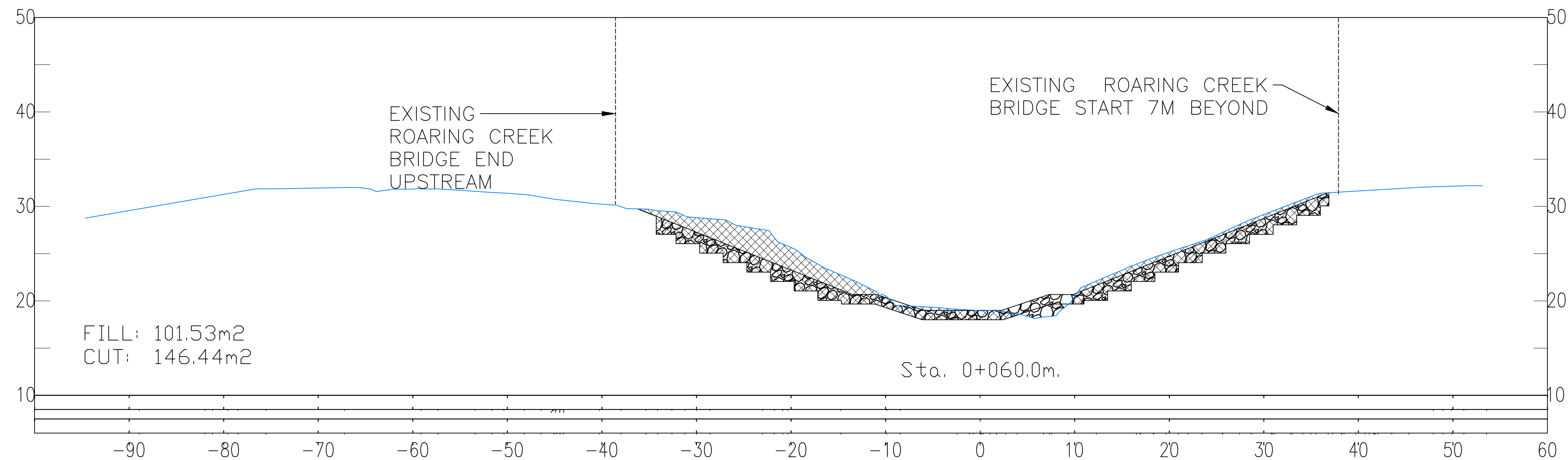
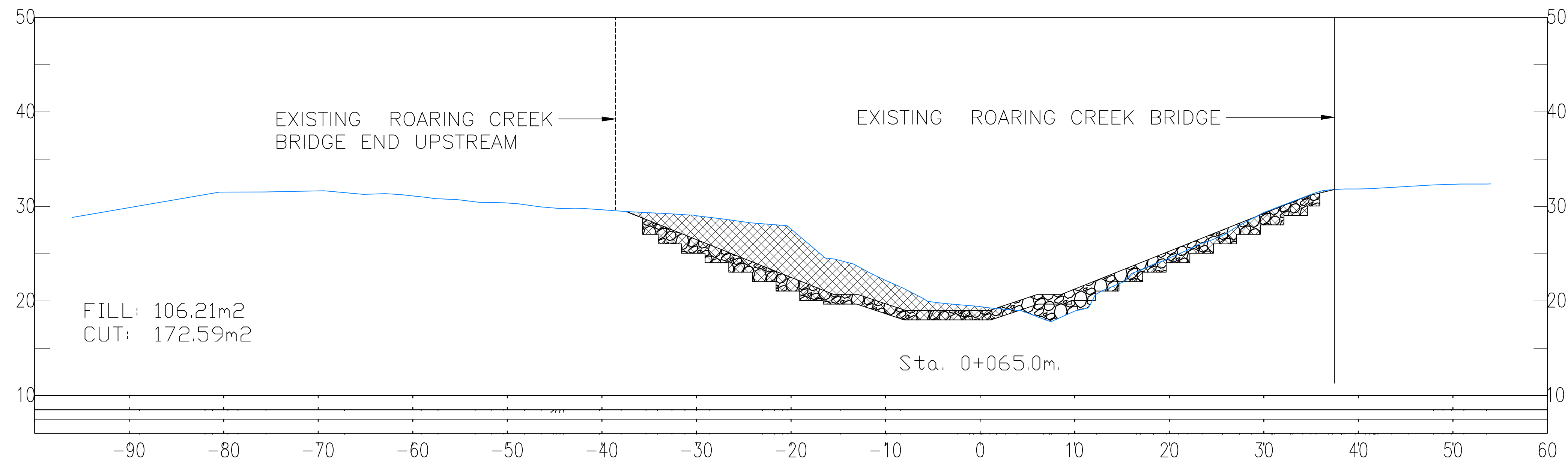
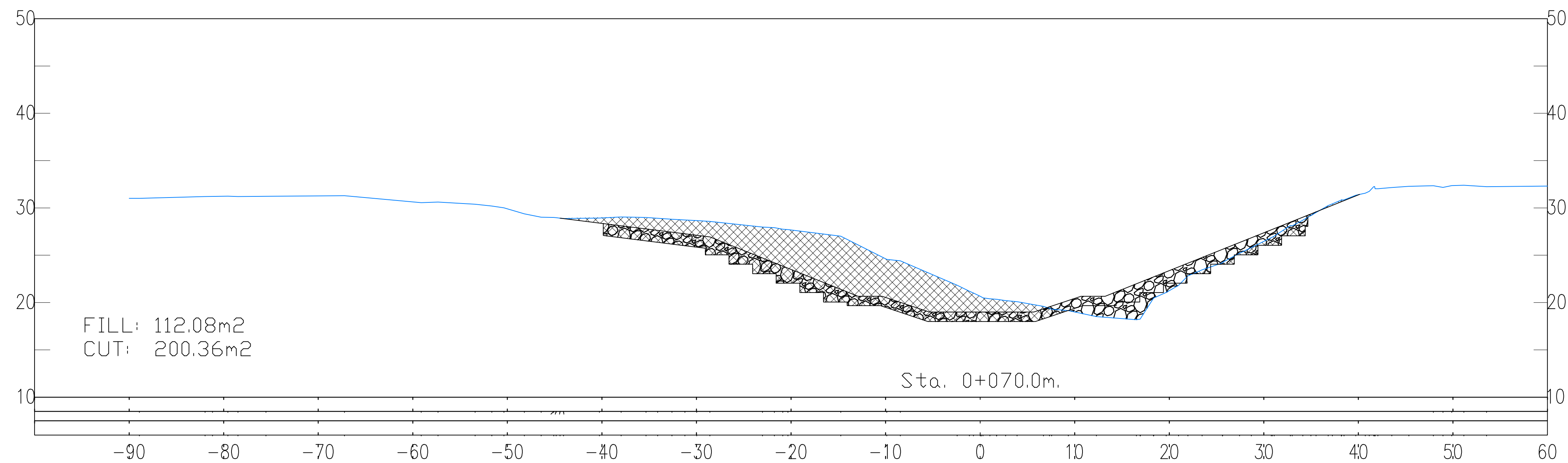
ROARING CREEK
BRIDGE SCOUR PROTECTION
SECTION 0+045 TO 0+055

Drawn by	CSL	Date:	SEPT 21, 2016
Checked by	JSP	Date:	SEPT 21, 2016
Authorised by	MS	Date:	SEPT 21, 2016

Drawing No.	Revision
GPHRP/070/S1/B01/D005	B

Drawing Scale: 1:300

Plot Scale: 1 : 1



Notes:

RIPRAP SPECIFICATION :

1. THE NOMINAL MEAN STONE SIZE FOR THE RIPRAP SHALL BE D_n50 400mm CORRESPONDING TO A WEIGHT OF 165kg (BASED ON SPECIFIC GRAVITY OF 2.6). EACH LOAD OF RIPRAP SHALL BE WELL GRADED FROM THE SMALLEST TO THE MAXIMUM SIZE SPECIFIED TO THE APPROVAL OF THE ENGINEER.
2. THE RIPRAP MATERIAL SHALL CONFORM TO THE FOLLOWING UPPER AND LOWER SIZE LIMITS BY ADOPTING THE FOLLOWING GRADING CHARACTERISTICS BY SIZE AND WEIGHT:

100% SMALLER THAN D_n=650mm OR W=710Kg
AT LEAST 20% LARGER THAN D_n=500mm OR W=325Kg
AT LEAST 50% LARGER THAN D_n=400mm OR W=165Kg
AT LEAST 80% LARGER THAN D_n=230mm OR W=030Kg

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3. ALL RIPRAP ROCK SHALL BE QUARRIED MATERIAL ,PINK/GREY GRANITE OR OTHER INDIGENOUS ROCK APPROVED BY THE ENGINEER, HARD AND OF BEST QUALITY WITH GOOD DURABILITY.
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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

B	CSL	JSP	MS	19.10.16	STAMP UPDATED - NO CHANGE FROM 100% DESIGN
A	CSL	JSP	MS	21.09.16	
Revision	By	Checked	Approved	Date	Description

Employer: **GOVERNMENT OF BELIZE**



Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

**George Price Highway
Rehabilitation Project**

Drawing Title

**ROARING CREEK
BRIDGE SCOUR PROTECTION
SECTION 0+060 TO 0+070**

Drawn by CSL

Date: SEPT 21, 2016

Checked by JSP

Date: SEPT 21, 2016

Authorised by MS

Date: SEPT 21, 2016

Drawing No.

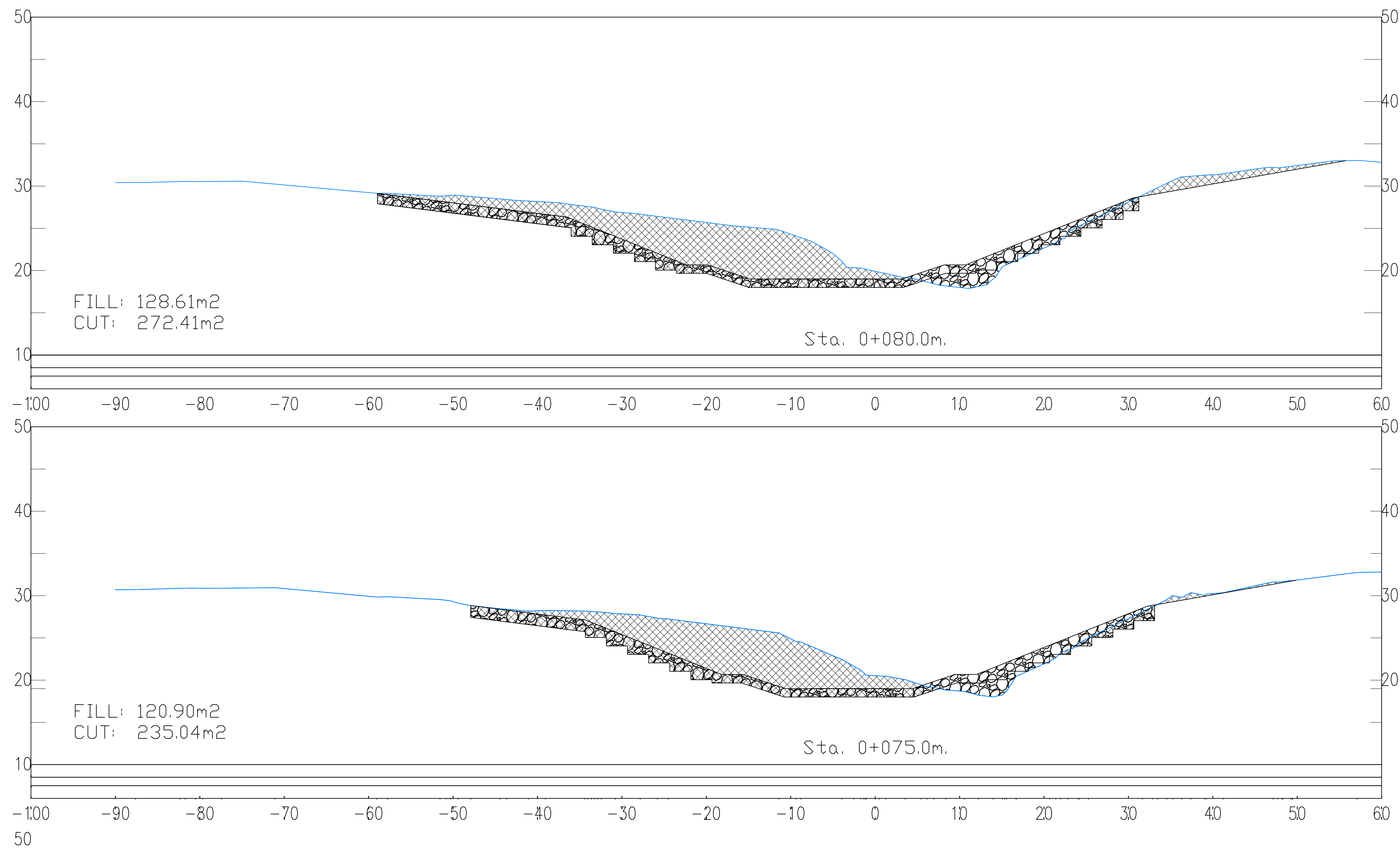
Revision

GPHRP/070/S1/B01/D006

B

Drawing Scale: 1:300

Plot Scale: 1 : 1



Notes:

RIPRAP SPECIFICATION :

1. THE NOMINAL MEAN STONE SIZE FOR THE RIPRAP SHALL BE D_n50 400mm CORRESPONDING TO A WEIGHT OF 165Kg (BASED ON SPECIFIC GRAVITY OF 2.6). EACH LOAD OF RIPRAP SHALL BE WELL GRADED FROM THE SMALLEST TO THE MAXIMUM SIZE SPECIFIED TO THE APPROVAL OF THE ENGINEER.
2. THE RIPRAP MATERIAL SHALL CONFORM TO THE FOLLOWING UPPER AND LOWER SIZE LIMITS BY ADOPTING THE FOLLOWING GRADING CHARACTERISTICS BY SIZE AND WEIGHT:

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AT LEAST 80% LARGER THAN D_n=230mm OR W=030Kg

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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

B	CSL	JSP	MS	19.10.16	STAMP UPDATED – NO CHANGE FROM 100% DESIGN
A	CSL	JSP	MS	21.08.16	100% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
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Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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Project

George Price Highway
Rehabilitation Project

Drawing Title

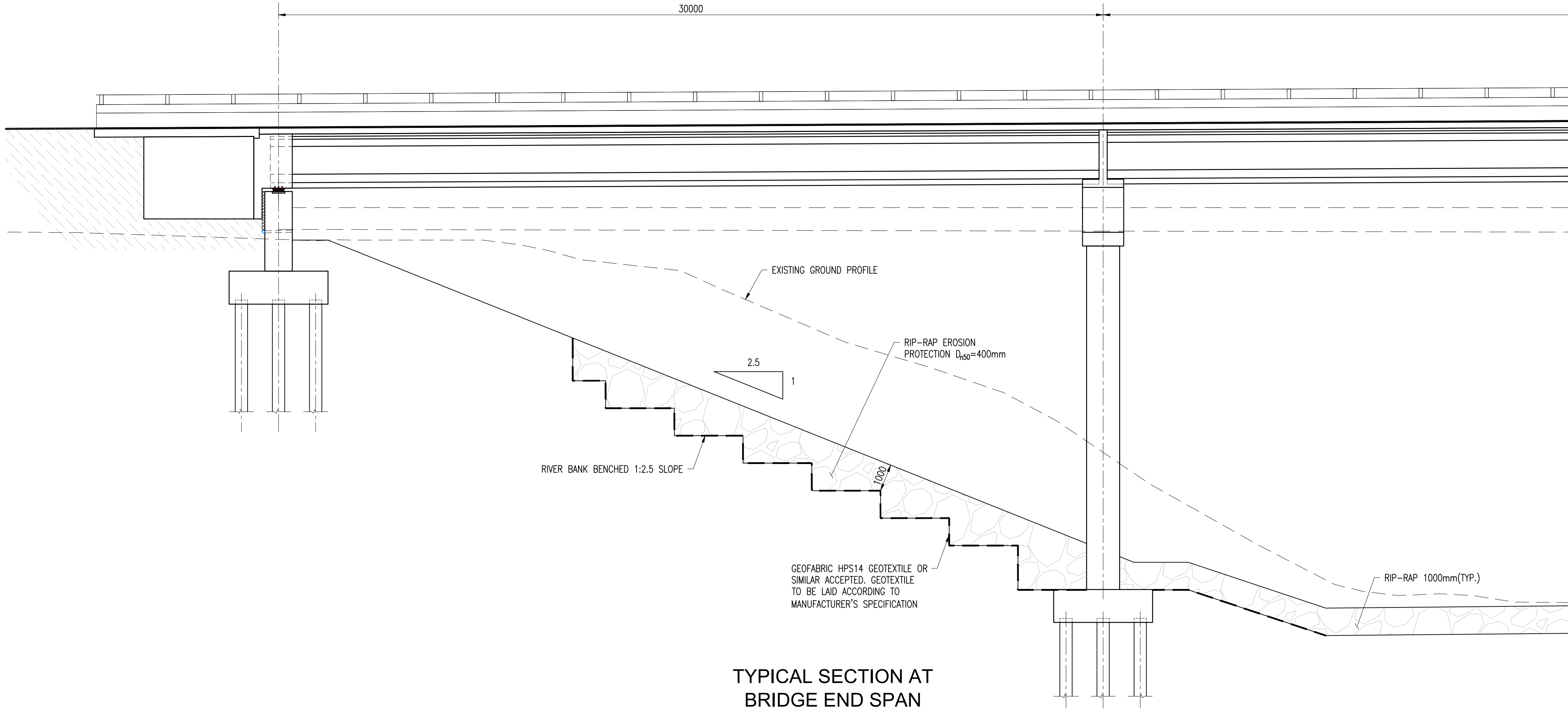
ROARING CREEK
BRIDGE SCOUR PROTECTION
SECTION 0+075 TO 0+080

Drawn by CSL	Date: SEPT 21, 2016
Checked by JSP	Date: SEPT 21, 2016
Authorised by MS	Date: SEPT 21, 2016

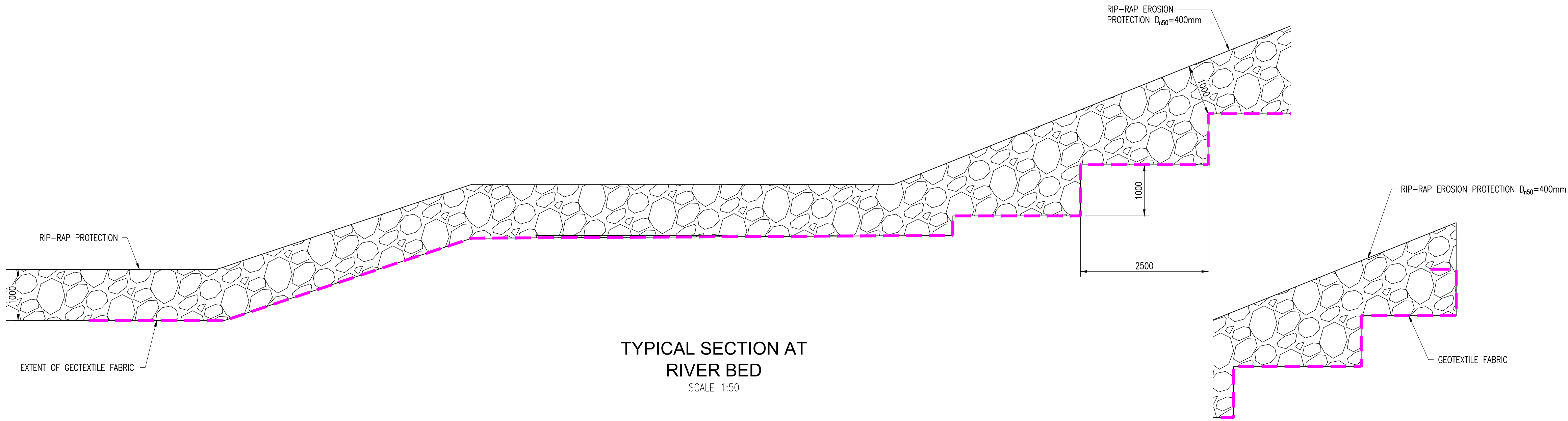
Drawing No.	Revision
GPHRP/070/S1/B01/D007	B

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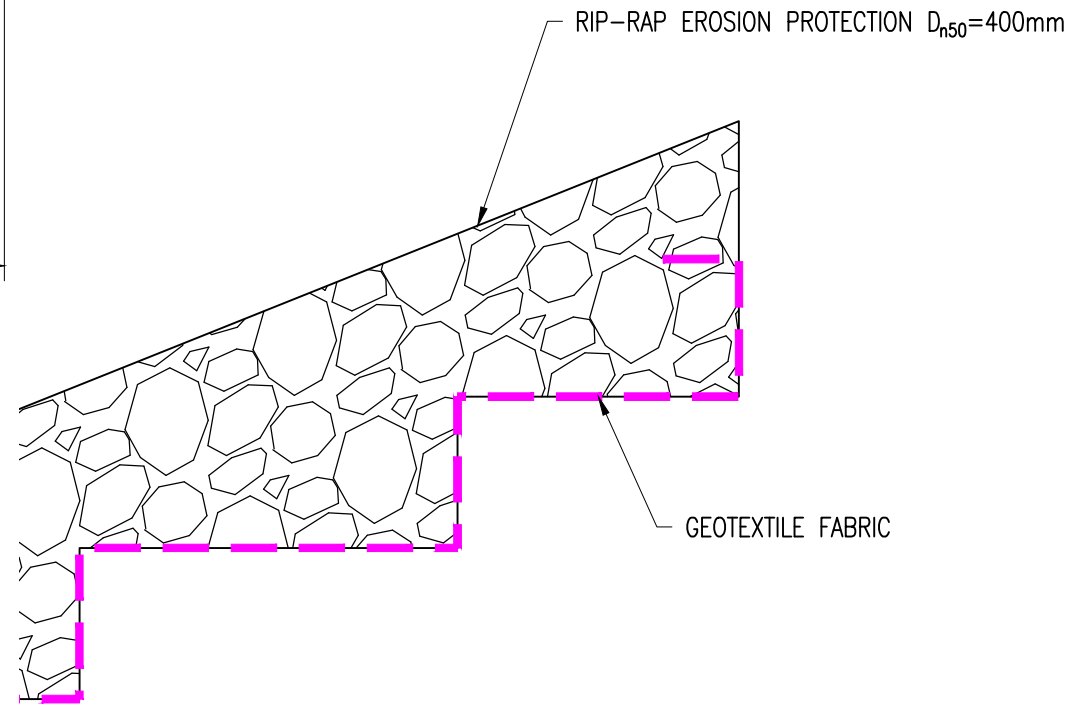
Plot Scale: 1 : 1



TYPICAL SECTION AT
BRIDGE END SPAN
SCALE 1:100



TYPICAL SECTION AT
RIVER BED
SCALE 1:50



SECTION C-C / D028
SCALE 1:50

Notes:

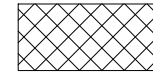
RIPRAP SPECIFICATION :

1. THE NOMINAL MEAN STONE SIZE FOR THE RIPRAP SHALL BE D_N50 400mm CORRESPONDING TO A WEIGHT OF 165kg (BASED ON SPECIFIC GRAVITY OF 2.6). EACH LOAD OF RIPRAP SHALL BE WELL GRADED FROM THE SMALLEST TO THE MAXIMUM SIZE SPECIFIED TO THE APPROVAL OF THE ENGINEER.
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100% FINAL DESIGN



AREA OF CUT



AREA OF FILL (RIP RAP)

A	TS	CS	MS	19.10.16	100% FINAL DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

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Project

George Price Highway
Rehabilitation Project

Drawing Title

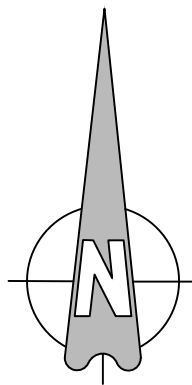
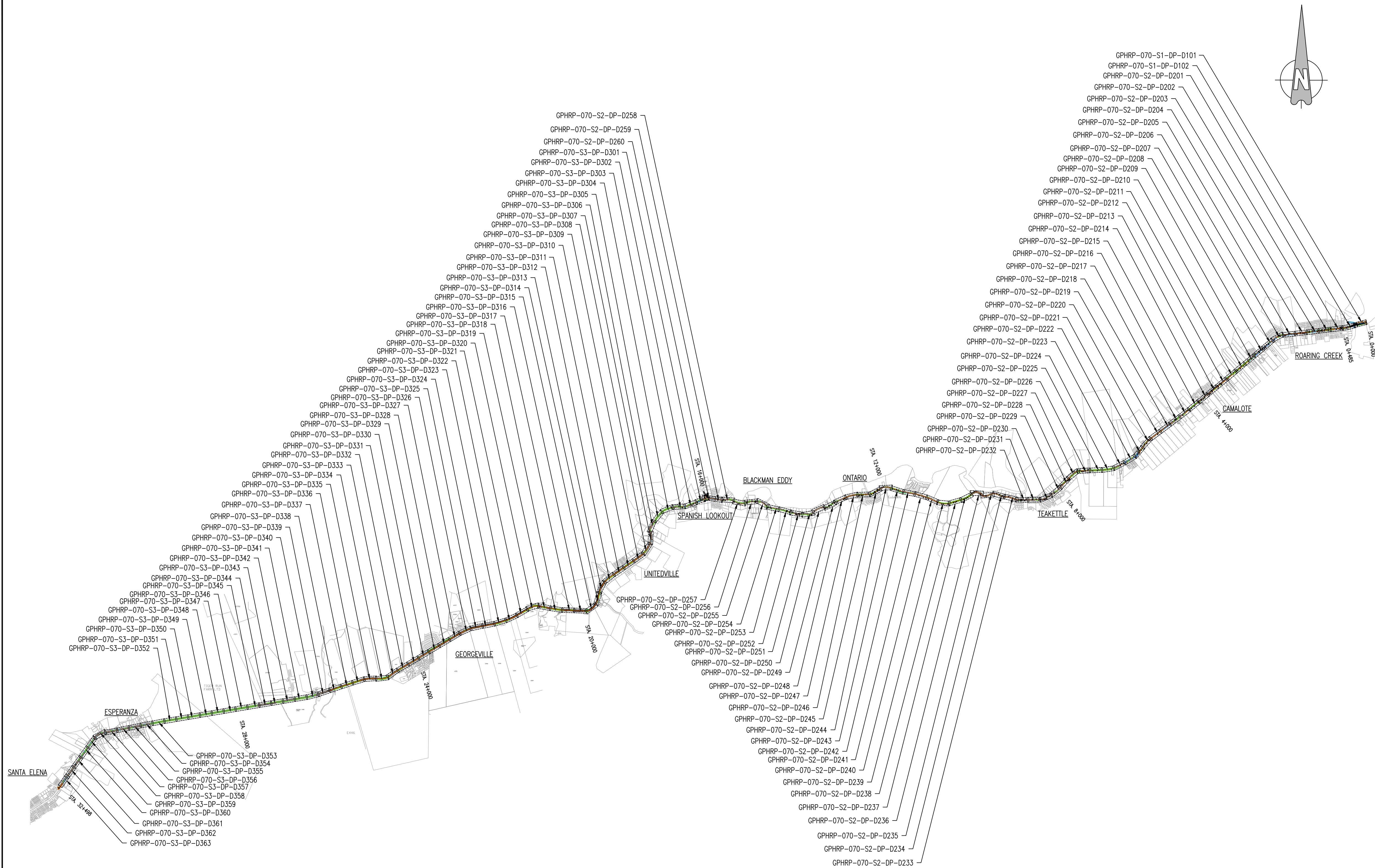
ROARING CREEK BRIDGE
AT STATION 0+248.69
SCOUR PROTECTION DETAILS

Drawn by CSL	Date: OCT 19, 2016
Checked by JSP	Date: OCT 19, 2016
Authorised by MS	Date: OCT 19, 2016

Drawing No.	Revision
GPHRP/070/S1/B01/D008	A

Drawing Scale: 1:300

Plot Scale: 1 : 1



- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.

Section Locations

SECTION 1 - STA. 0+000 to 0+485
SECTION 2 - STA. 0+485 to 16+000
SECTION 3 - STA. 16+225 to 32+924

100% FINAL DESIGN

B	HS	MR	MS	19.10.16	100% FINAL DESIGN
	KA	MR	MS	18.07.16	FIRST SUBMISSION
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
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Project

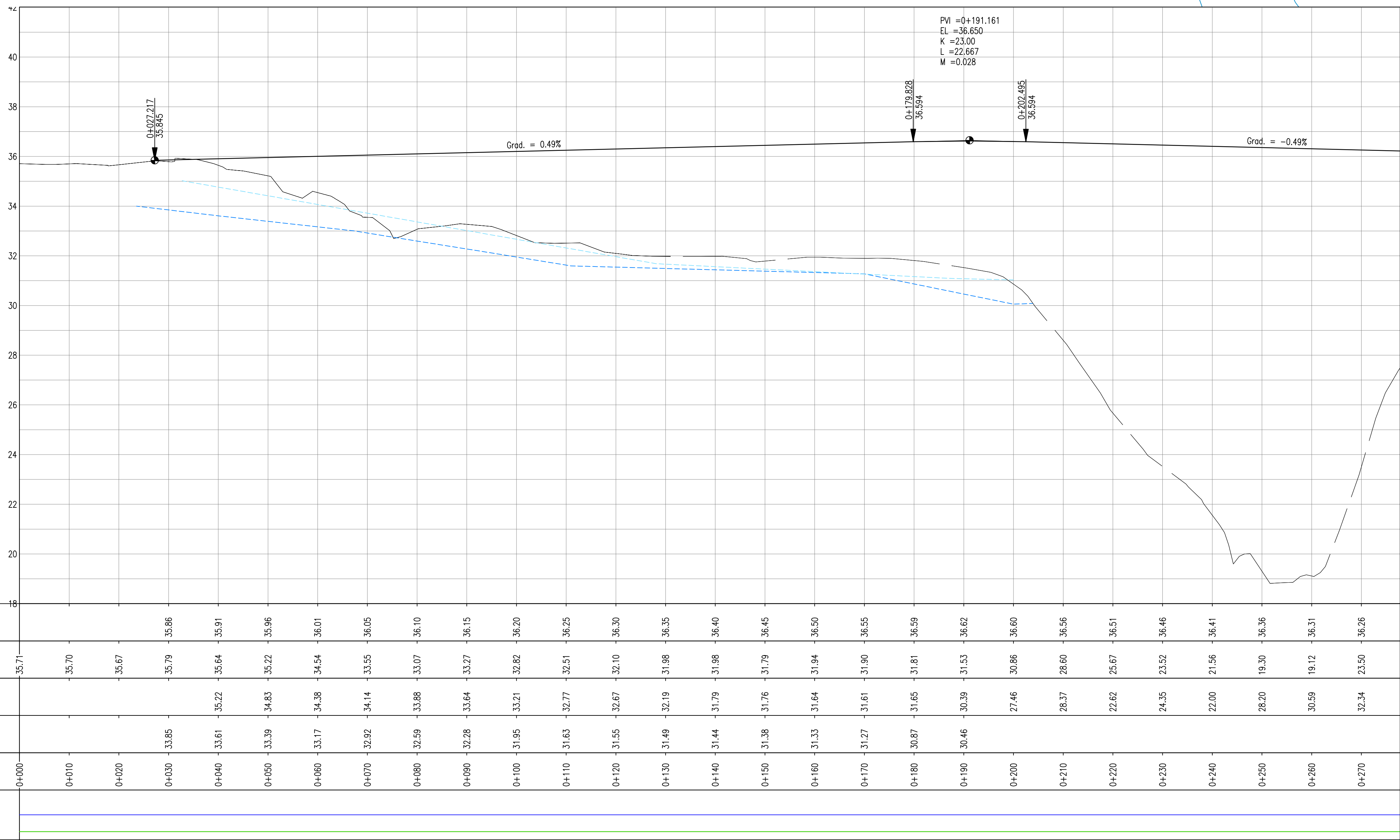
George Price Highway
Rehabilitation Project

Drawing Title

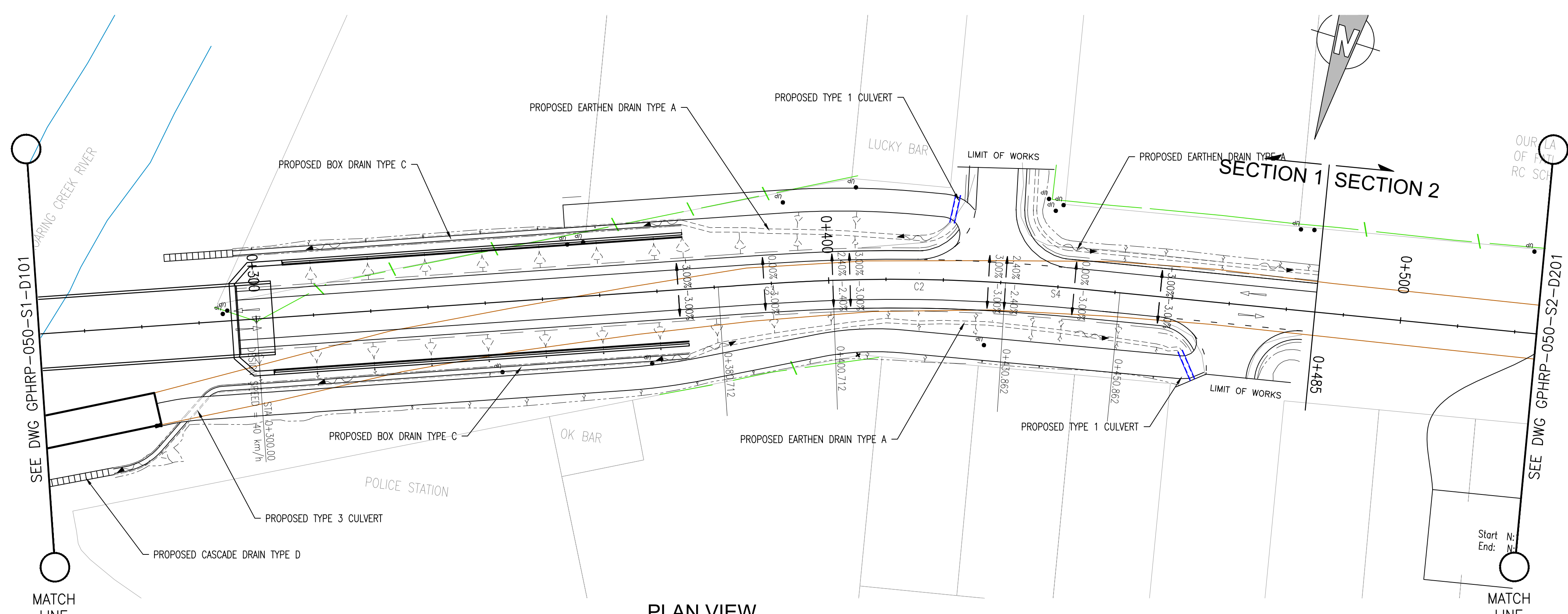
DRAINAGE - PLAN AND PROFILE - KEY PLAN

Drawn by KA	Date: 18 JUL, 2016
Checked by MR	Date: 18 JUL, 2016
Authorised by MS	Date: 18 JUL, 2016

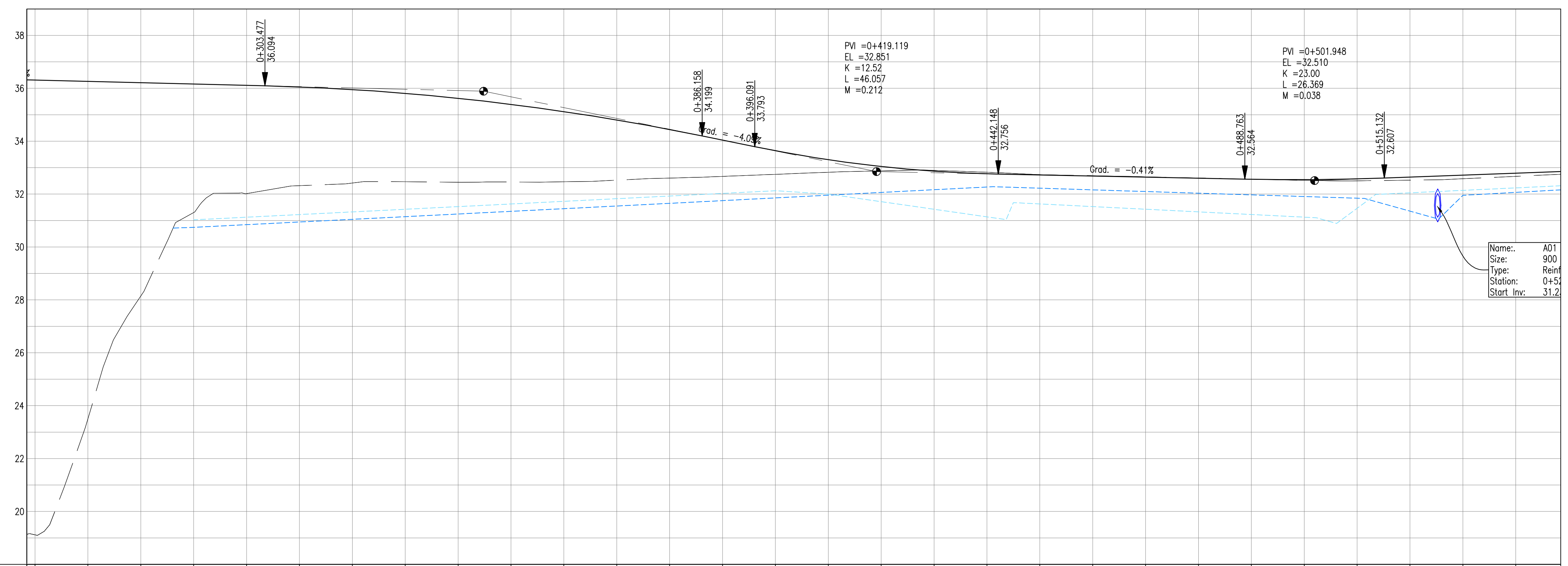
Drawing No.	Revision
GPHRP-070-DP-D100	B
Drawing Scale: NTS	
Plot Scale: 1 : 1	



Drawing file path & name : C:\WORK\BELIZE\3D-George Price Highway Project\Current Design\150 ROADWAY DRAINAGE - PLAN&PROFILE) [100% Design] GPHRR-076-S1-S2-0P-D101-D218.dwg
Reference file path : C:\WORK\BELIZE\3D-George Price Highway Project\Current Design\150 ROADWAY DRAINAGE - PLAN&PROFILE)
User and Plot Date : Tech89 - 28/10/2016 - 10:10 am



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

PROPOSED	36.31	36.26	36.21	36.16	36.11	36.05	35.95	35.81	35.62	35.39	35.12	34.80	34.44	34.04	33.64	33.30	33.04	32.86	32.77	32.72	32.68	32.64	32.60	32.56	32.55	32.58	32.64	32.72	32.79
SURVEY	19.12	23.50	28.15	31.30	32.02	32.32	32.42	32.47	32.45	32.46	32.47	32.53	32.61	32.67	32.75	32.82	32.88	32.90	32.82	32.74	32.69	32.65	32.61	32.56	32.52	32.50	32.53	32.58	32.67
DRAIN R	30.59	32.34	32.36	32.37	32.35	32.36	32.36	32.30	32.27	32.10	32.21	32.36	32.43	32.51	32.66	32.73	32.82	32.38	32.14	32.22	32.20	32.02	31.11	31.52	31.75	31.75	32.50	32.61	32.64
DRAIN L						30.94	31.04	31.15	31.25	31.35	31.45	31.55	31.65	31.75	31.86	31.96	32.06	32.17	32.27	32.22	32.16	32.10	32.03	31.97	31.91	31.84	31.36	31.95	32.06
STATION	0+260	0+270	0+280	0+290	0+300	0+310	0+320	0+330	0+340	0+350	0+360	0+370	0+380	0+390	0+400	0+410	0+420	0+430	0+440	0+450	0+460	0+470	0+480	0+490	0+500	0+510	0+520	0+530	0+540
SUPERELEVATION																													

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

NOTE: ALL PROPOSED CULVERT INVERTS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ADJUSTED IN THE FIELD TO MAINTAIN PROPER DRAINAGE. ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER

100% FINAL DESIGN

C	HS	MR	MS	19.10.16	100% FINAL DESIGN
B	KA	MR	MS	19.09.16	100% DESIGN
A	KA	KN	MS	31.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works, and Transport

Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project

George Price Highway Rehabilitation Project

Drawing Title

DRAINAGE PLAN & PROFILE SEC. 1 - STA. 0+262 TO 0+524

Drawn by KA Date: 31 JUL, 2016

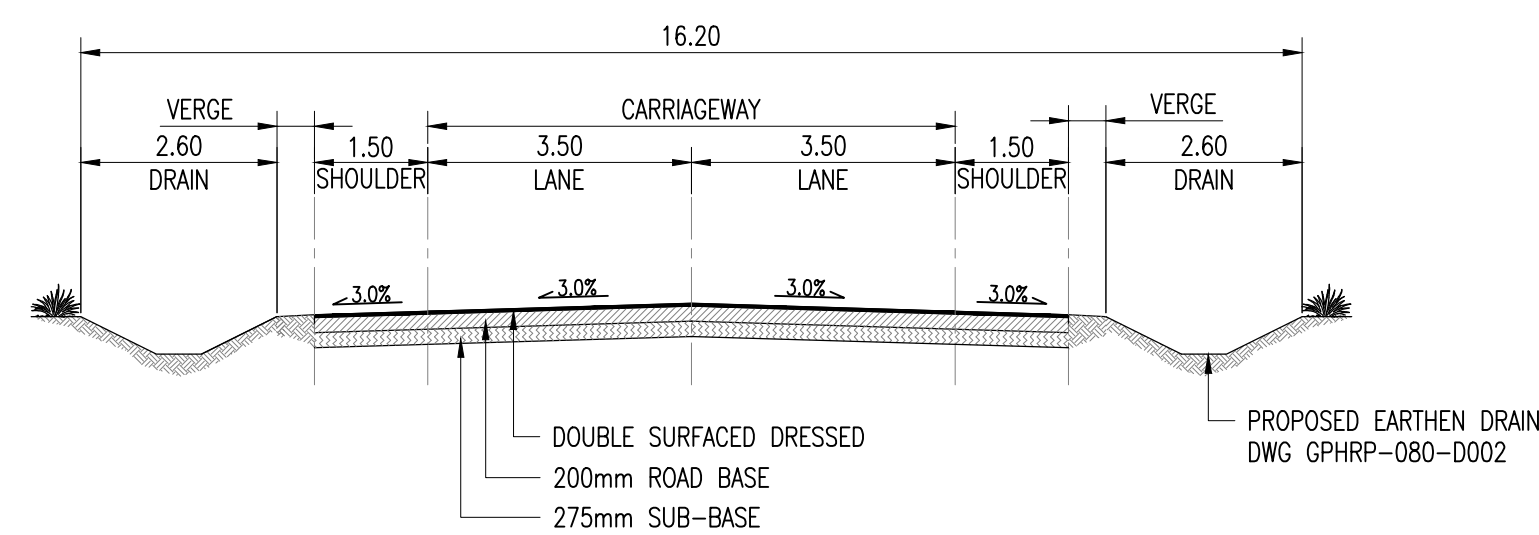
Checked by MS Date: 31 JUL, 2016

Authorised by MS Date: 31 JUL, 2016

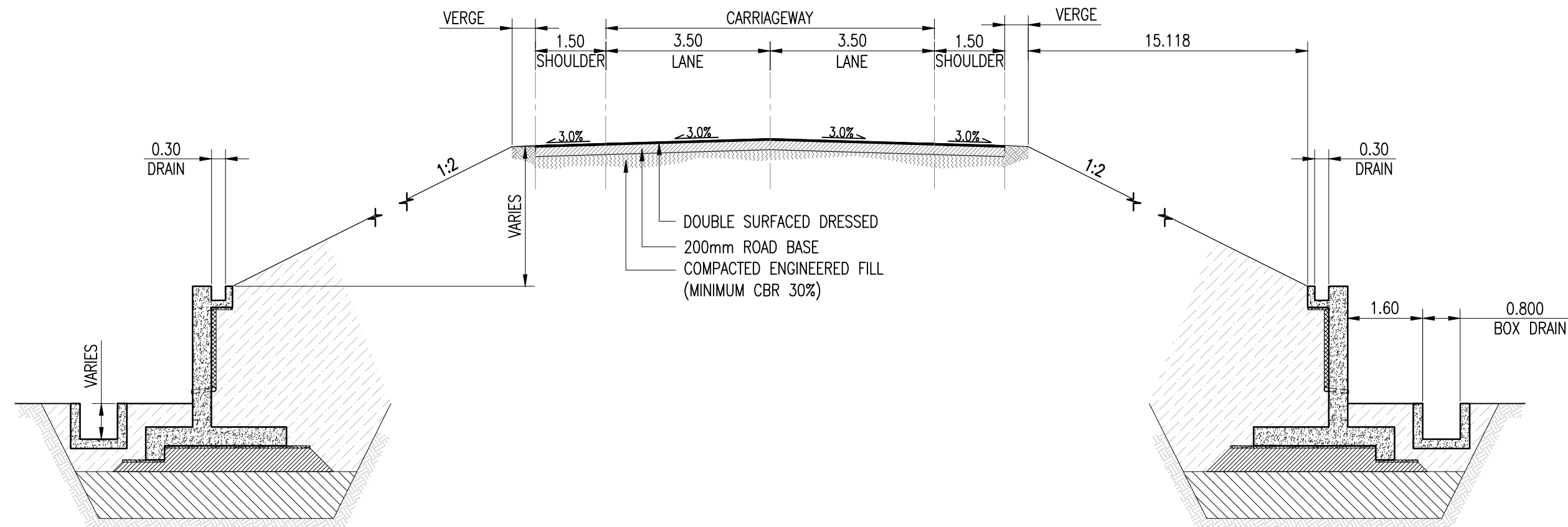
Drawing No. **GPHRP-070-S1-DP-D102** Revision **C**

Drawing Scale: As noted at A1

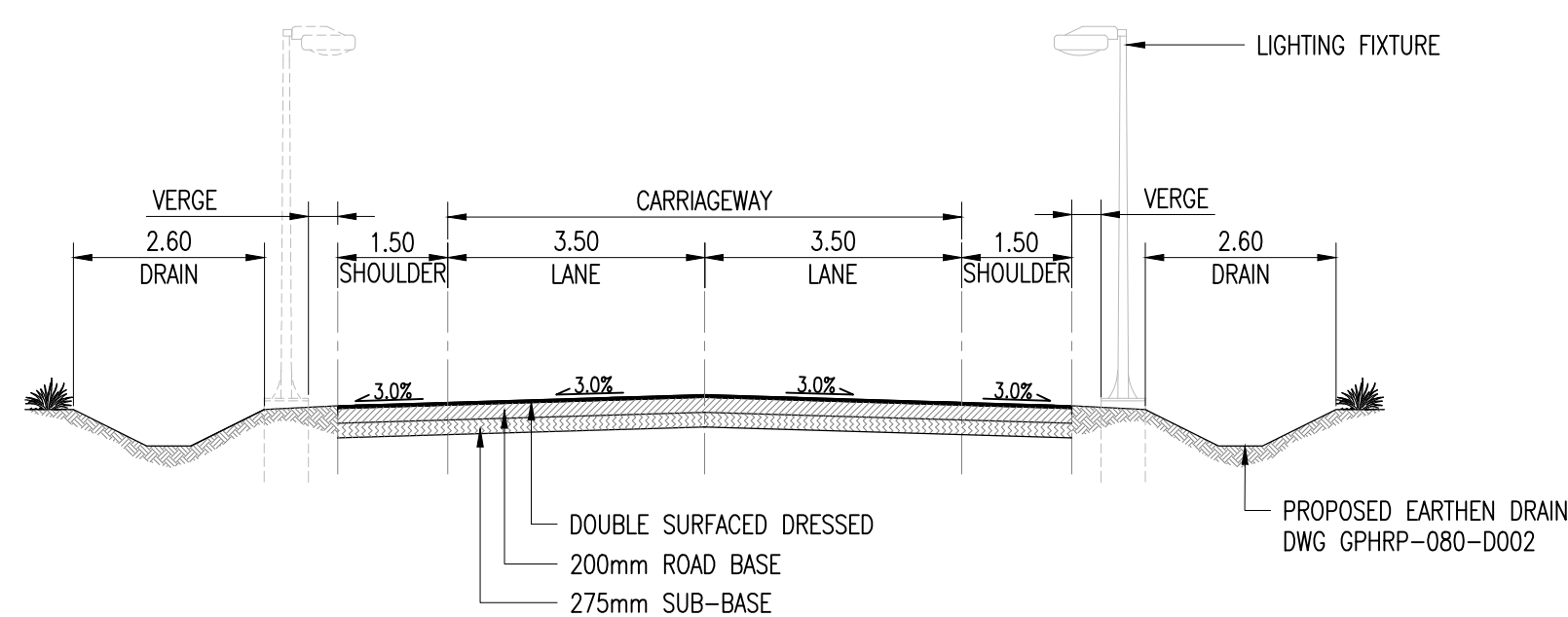
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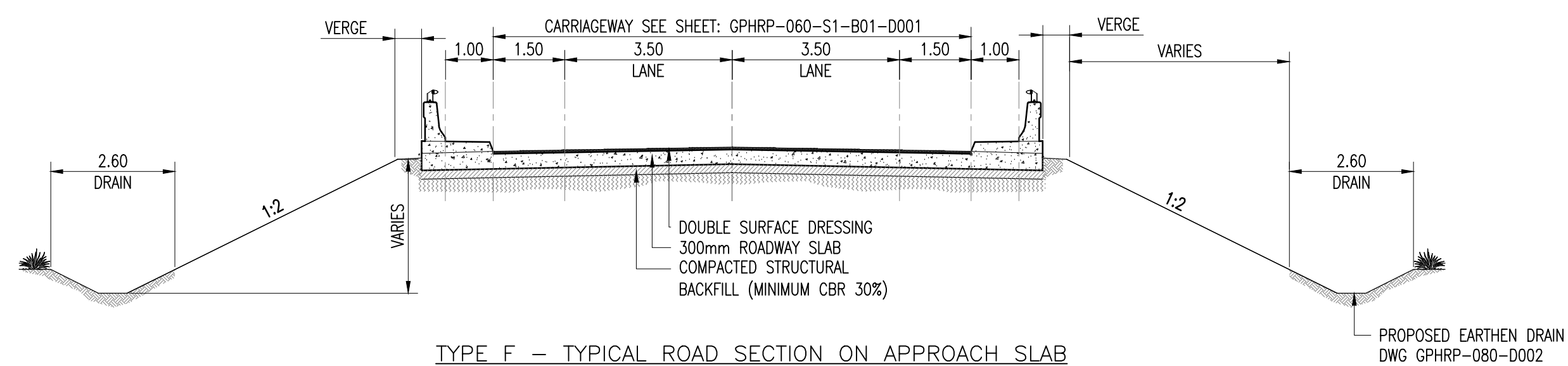
TYPE A - TYPICAL ROAD SECTION
SCALE 1:50



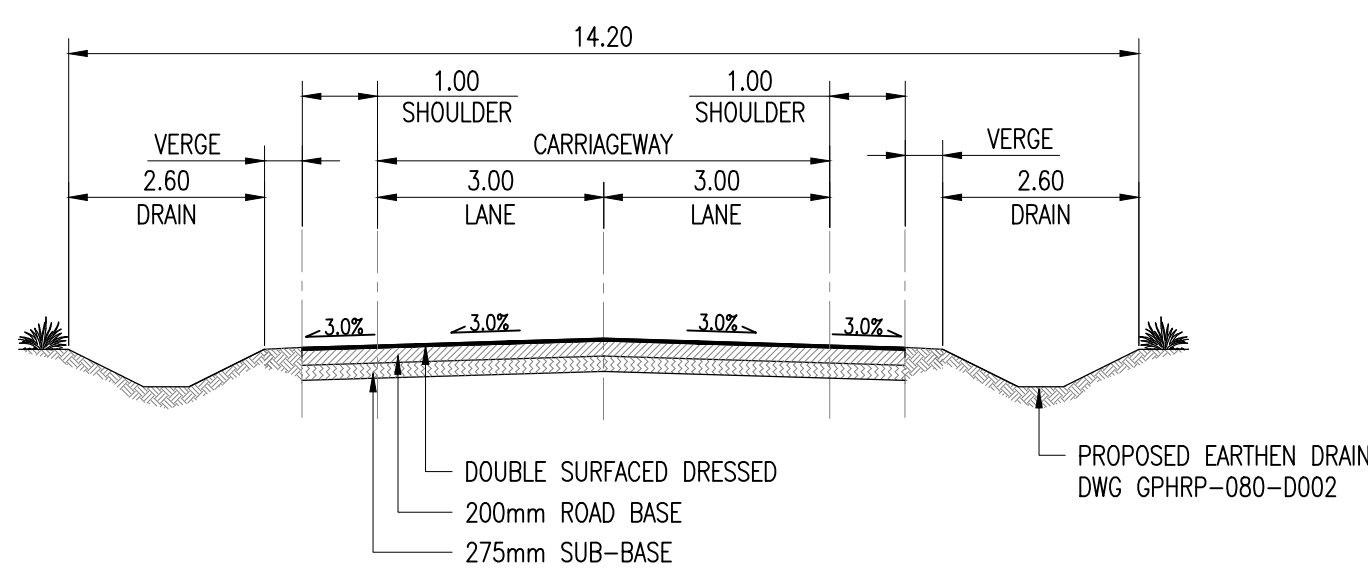
TYPE E - TYPICAL ROAD SECTION ON APPROACH EMBANKMENT
SCALE 1:50



TYPE B - TYPICAL ROAD SECTION WITH LIGHTING
SCALE 1:50

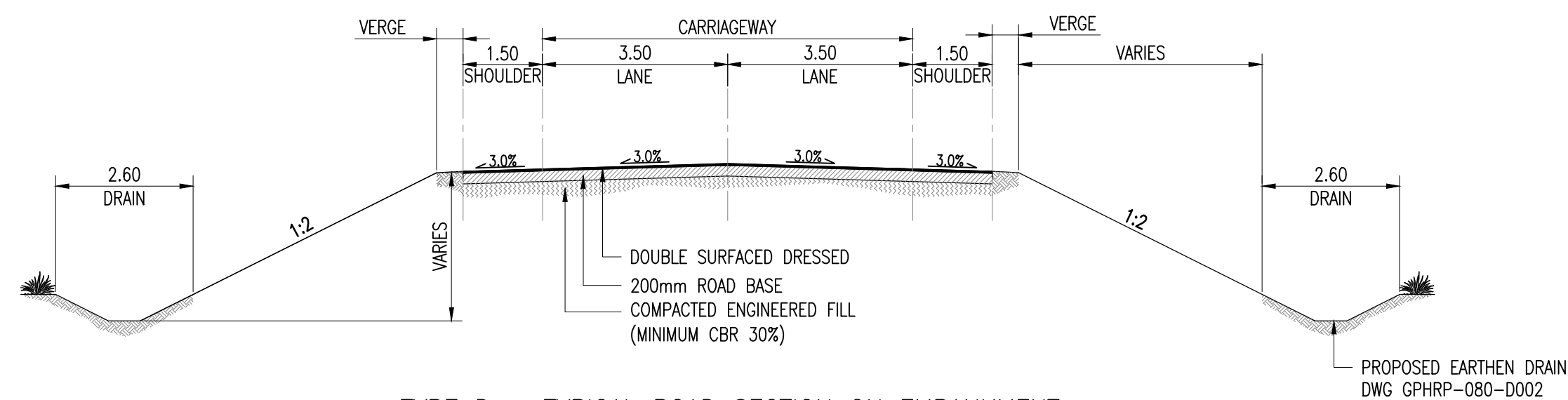


TYPE F - TYPICAL ROAD SECTION ON APPROACH SLAB
SCALE 1:50



NOTE
MINIMUM TIE FROM THE MAINLINE SHOULDER 10M INTO THE ACCESS ROAD, EXTENT TO BE
CONFIRMED ON SITE BY THE ENGINEER

TYPE C - TYPICAL ROAD SECTION FOR ACCESS ROAD
SCALE 1:50



TYPE D - TYPICAL ROAD SECTION ON EMBANKMENT
SCALE 1:50

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

100% FINAL DESIGN

C	HS	MR	MS	19.10.16	100% FINAL DESIGN
B	KA	MR	MS	08.16.16	100% DESIGN
A	KA	MS	MS	08.05.16	FIRST SUBMISSION
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
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Project

George Price Highway
Rehabilitation Project

Drawing Title

TYPICAL ROAD CROSS SECTIONS

Drawn by KA Date: 18 MAR, 2016
Checked by MS Date: 18 MAR, 2016
Authorised by MS Date: 18 MAR, 2016

Drawing No. Revision
GPGRP-080-S1-D001 **C**

Drawing Scale: 1:1000 (A1)

Plot Scale: 1 : 1



- 100% FINAL DESIGN**

Employer: GOVERNMENT OF BELIZE



ch2m.SM

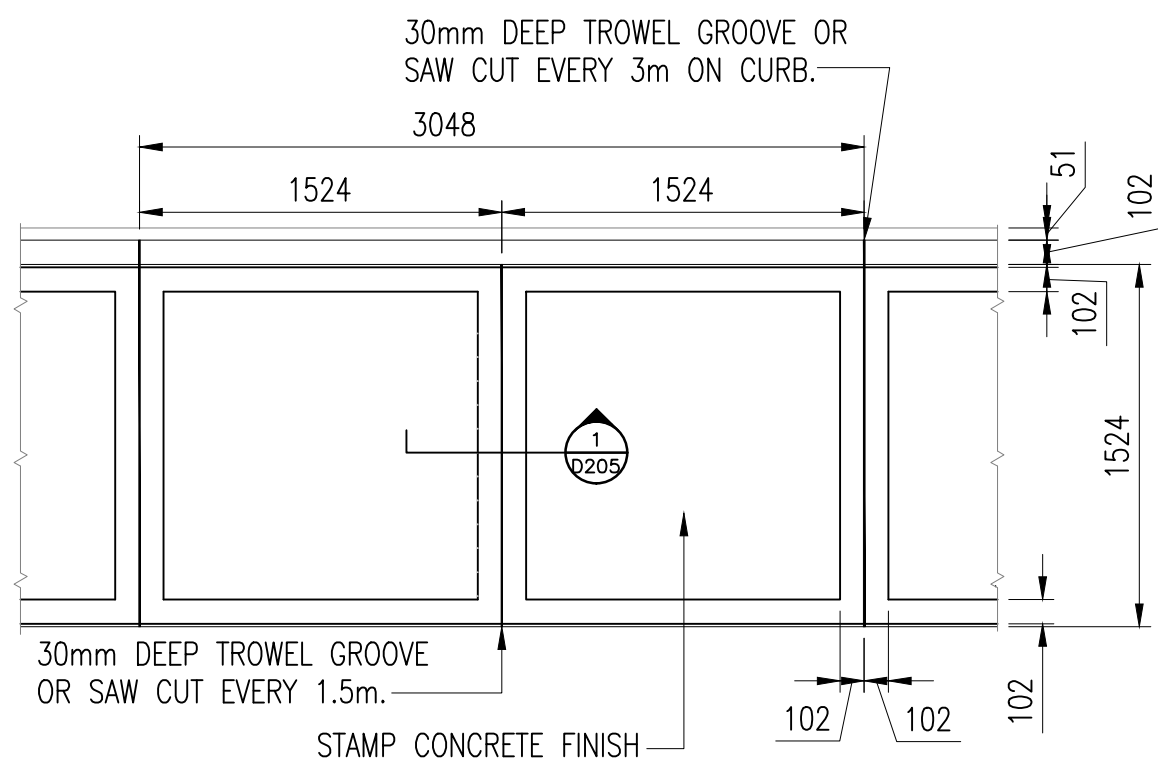
Project	Start Date	End Date	Duration	Progress	Status
Project A	2023-01-01	2023-03-31	90 Days	80%	On Track
Project B	2023-02-01	2023-05-31	120 Days	60%	At Risk
Project C	2023-03-01	2023-06-30	120 Days	40%	On Track
Project D	2023-04-01	2023-07-31	120 Days	20%	Delayed
Project E	2023-05-01	2023-08-31	120 Days	10%	On Track

George Price Highway Rehabilitation
Project

Drawing	Title
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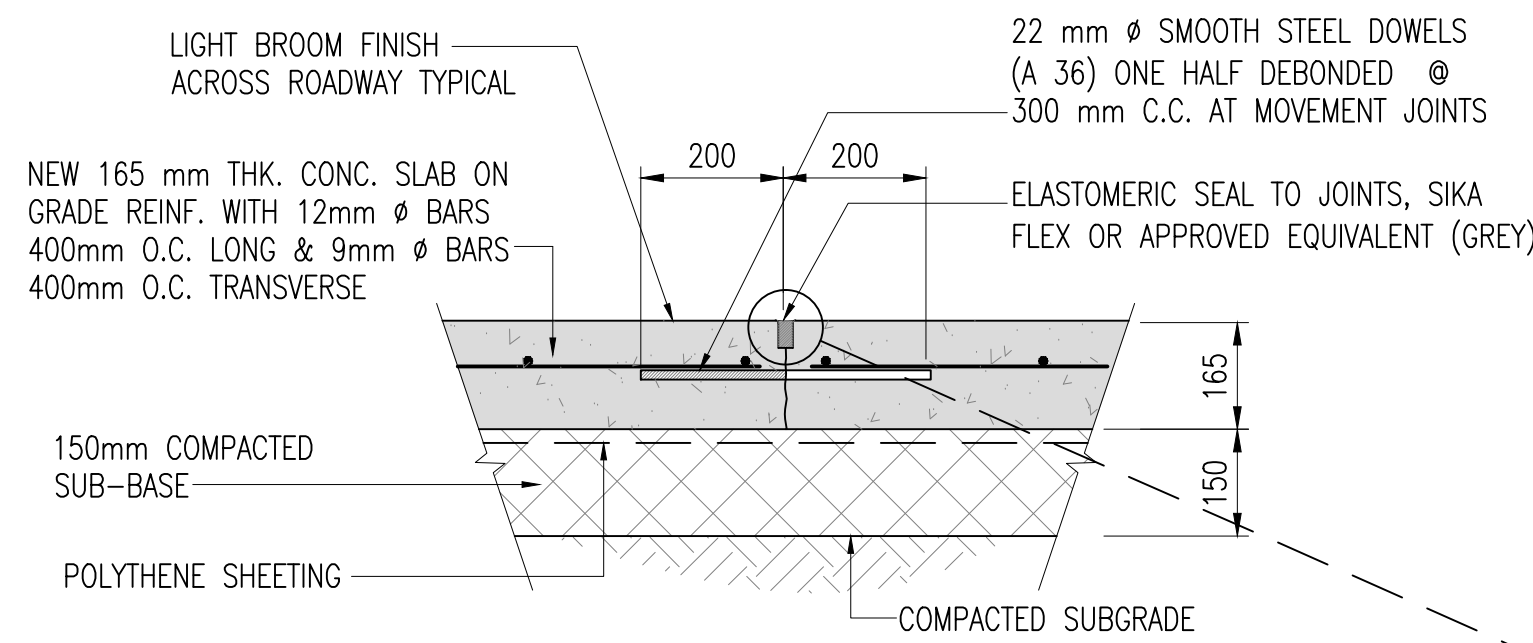
TYPICAL CROSSING & SIDEWALK DETAILS

Plot Scale: 1 : 1



SIDEWALK (TYPICAL PLAN)

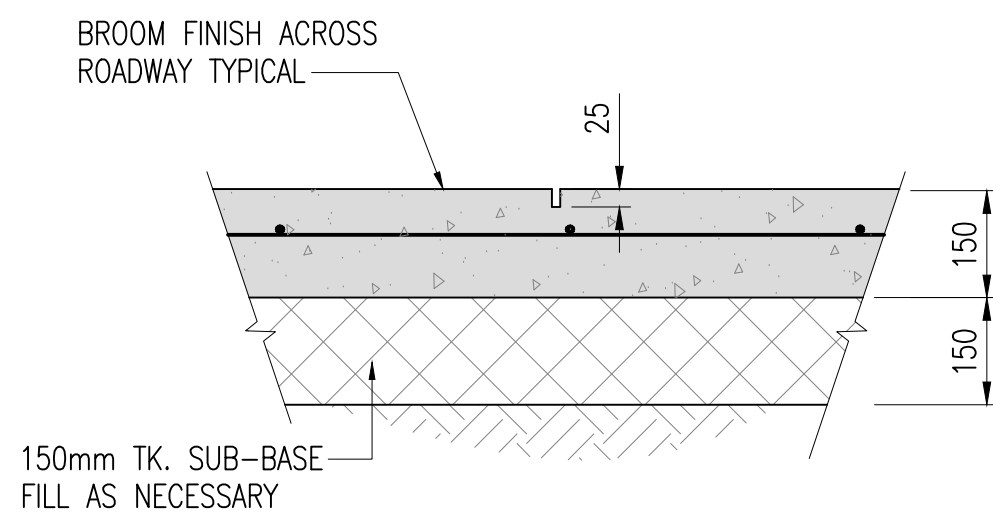
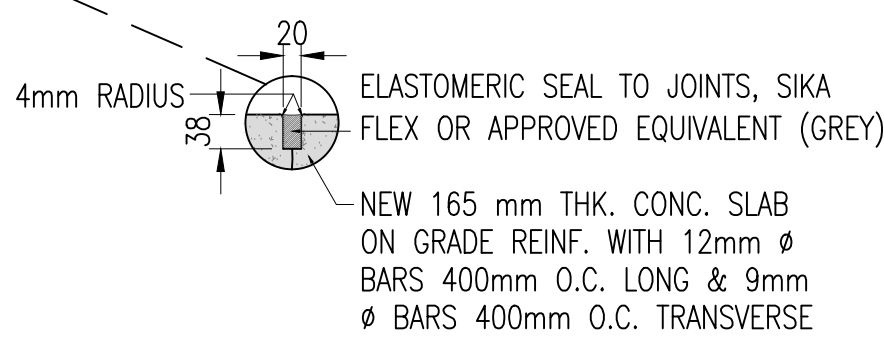
SCALE 1:30



TYPICAL ROAD PAVEMENT DOWELED JOINT DETAIL

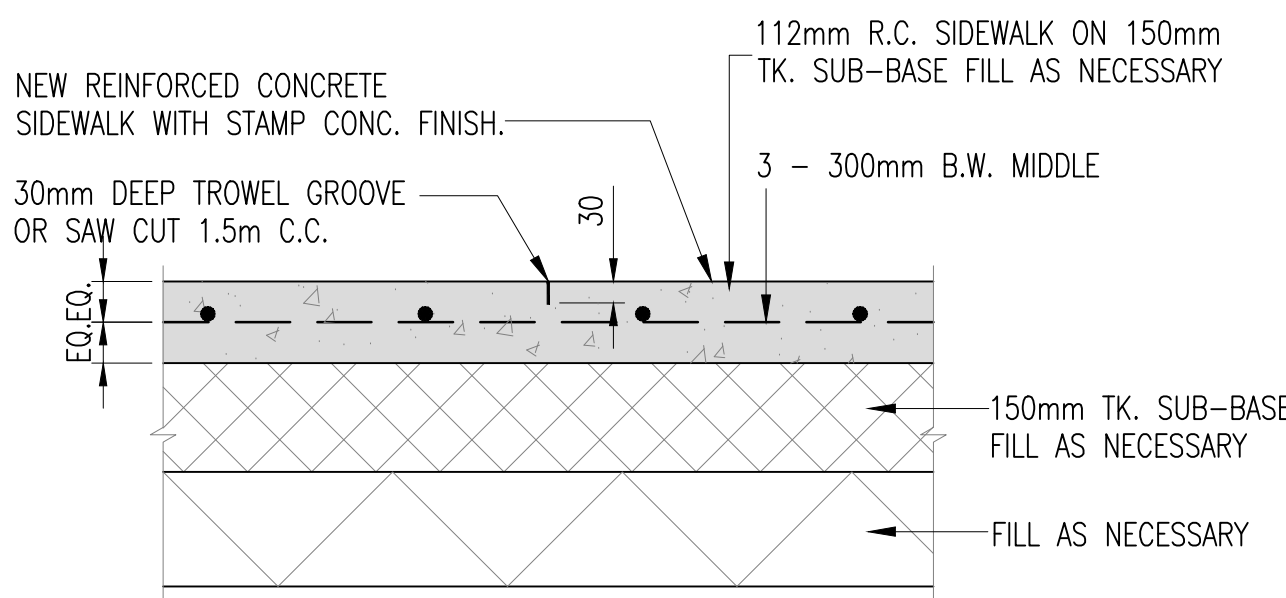
SCALE 1:10

NOTE: PROVIDE AT ALL CONSTRUCTION STOPPAGE AND AS SHOWN.



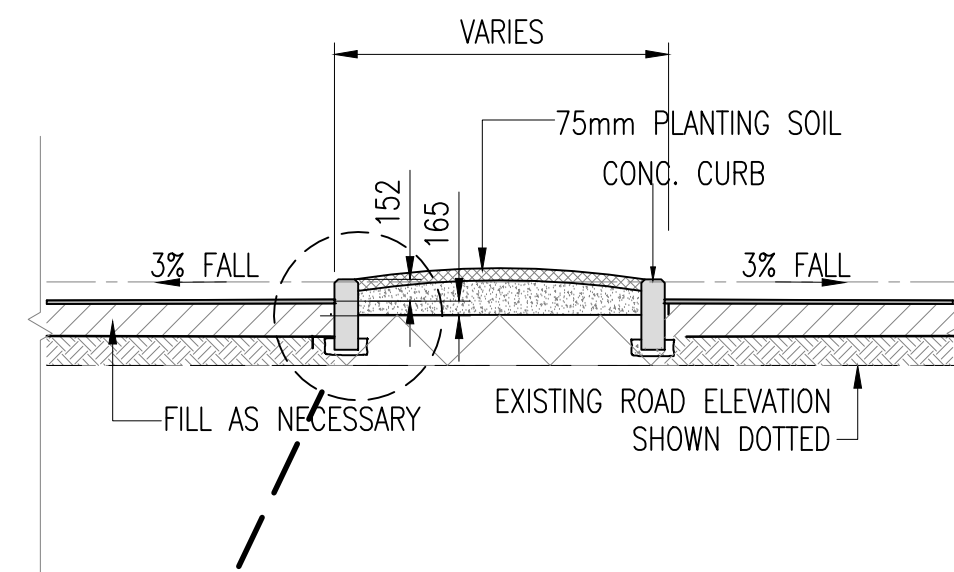
TYPICAL SAWCUT JOINT DETAIL

SCALE 1:10



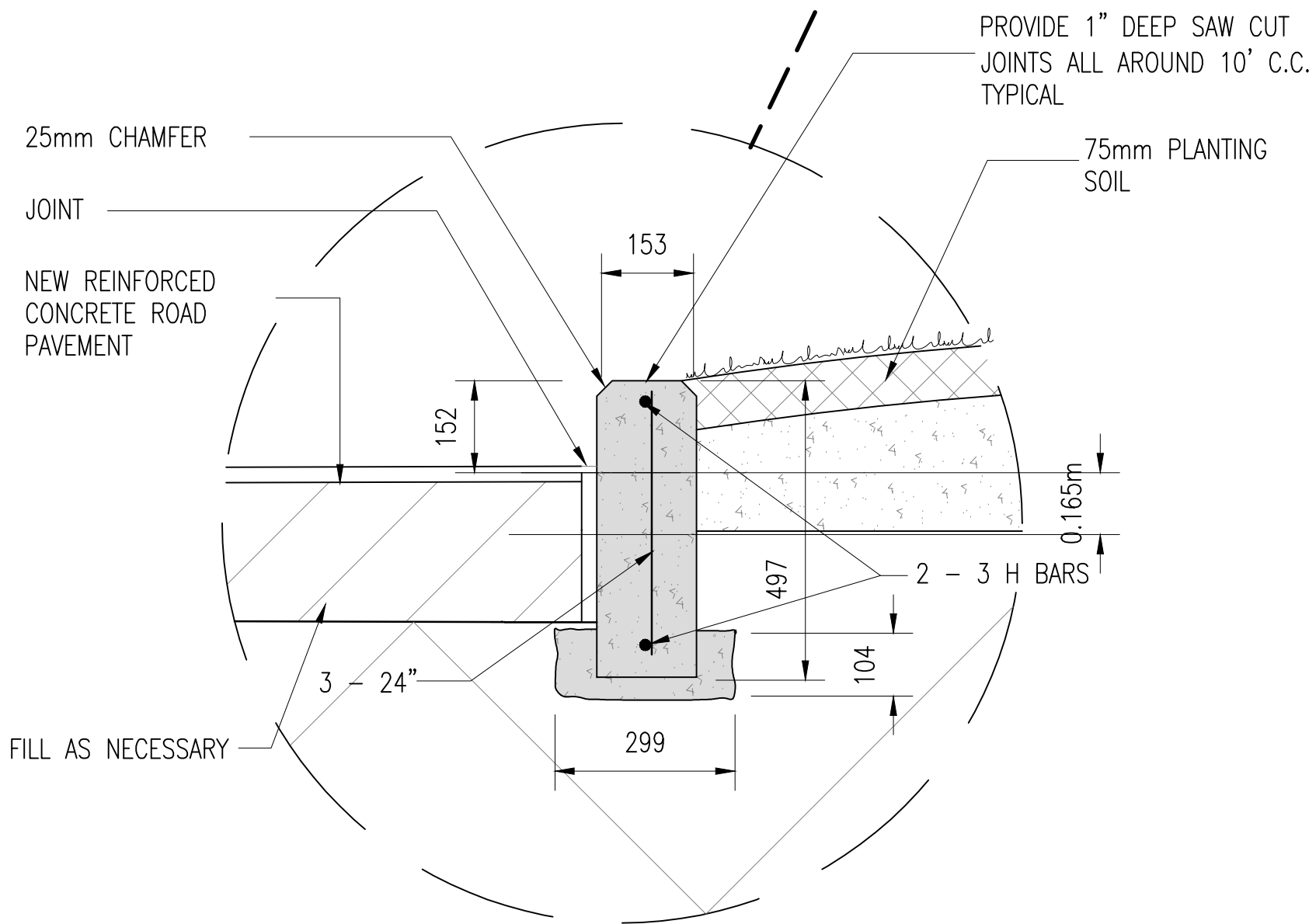
TYPICAL WALKWAY JOINT DETAIL

SCALE 1:10



TYPICAL SPLITTER ISLAND DETAIL

SCALE 1:50



Notes:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS ARE IN METERS AND RELATE TO PROJECT DATUM.

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
C	HS	MR	MS	19.10.16	100% FINAL DESIGN
B	KA	MR	MS	23.09.16	100% Design
A	KMJ	KA	MS	18.03.16	DRAFT ISSUE

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan

Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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Project

George Price Highway Rehabilitation Project

Drawing Title

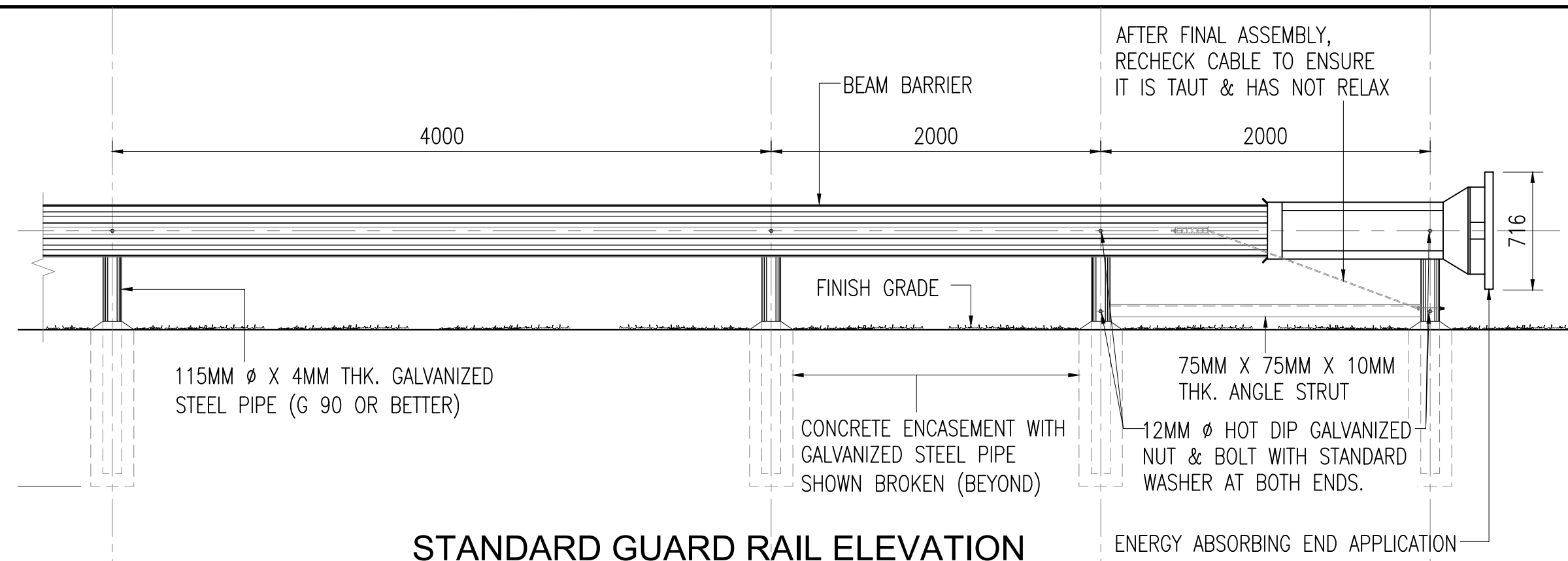
TYPICAL TRAFFIC ISLAND DETAILS

Drawn by KMJ	Date: MAR 18, 2016
Checked by KA	Date: MAR 18, 2016
Authorised by MS	Date: MAR 18, 2016

Drawing No.	Revision
GPHRP-080-S1-D003	C

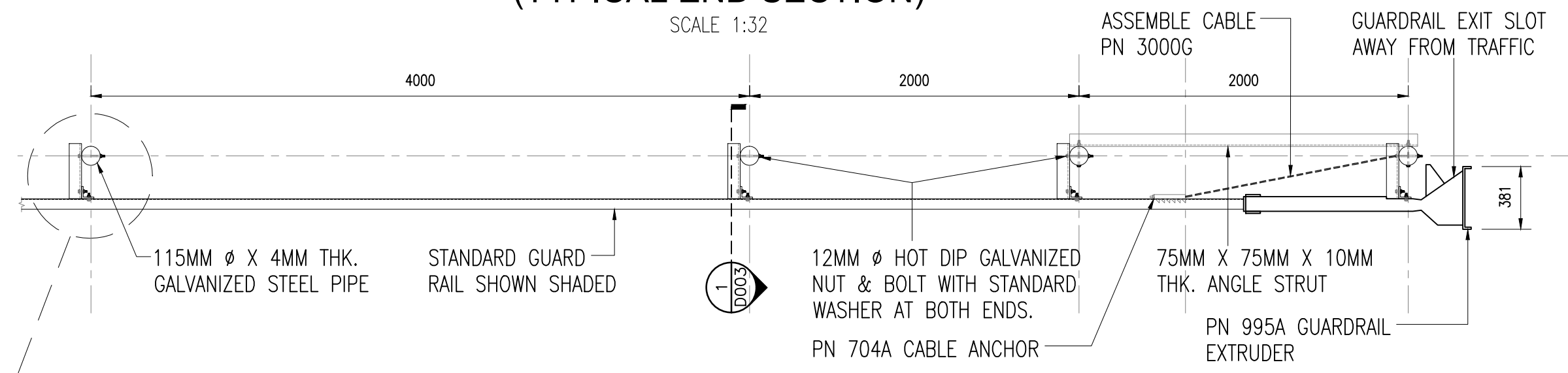
Drawing Scale: As noted on A1

Plot Scale: 1 : 1



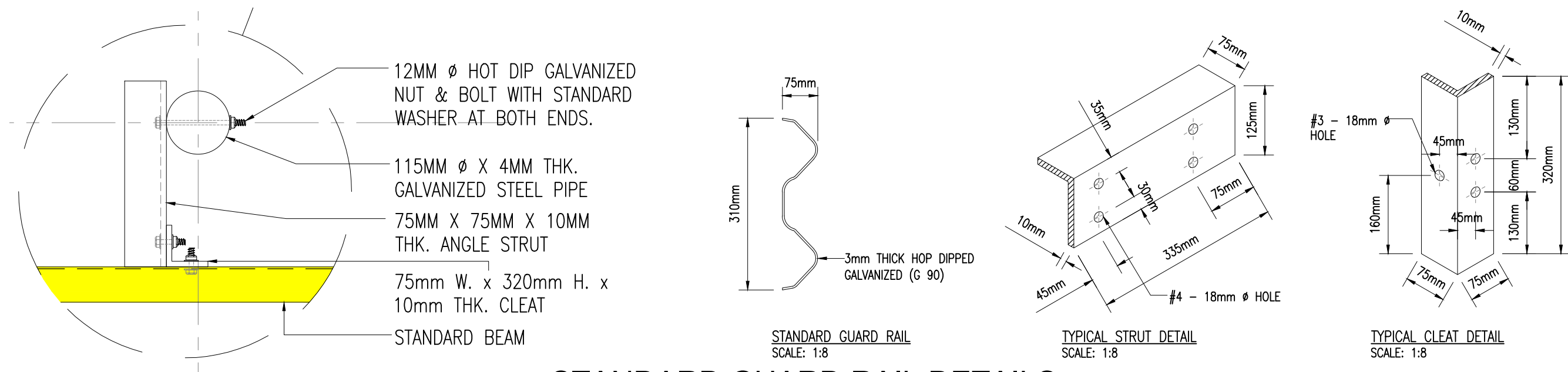
STANDARD GUARD RAIL ELEVATION
(TYPICAL END SECTION)

SCALE 1:32



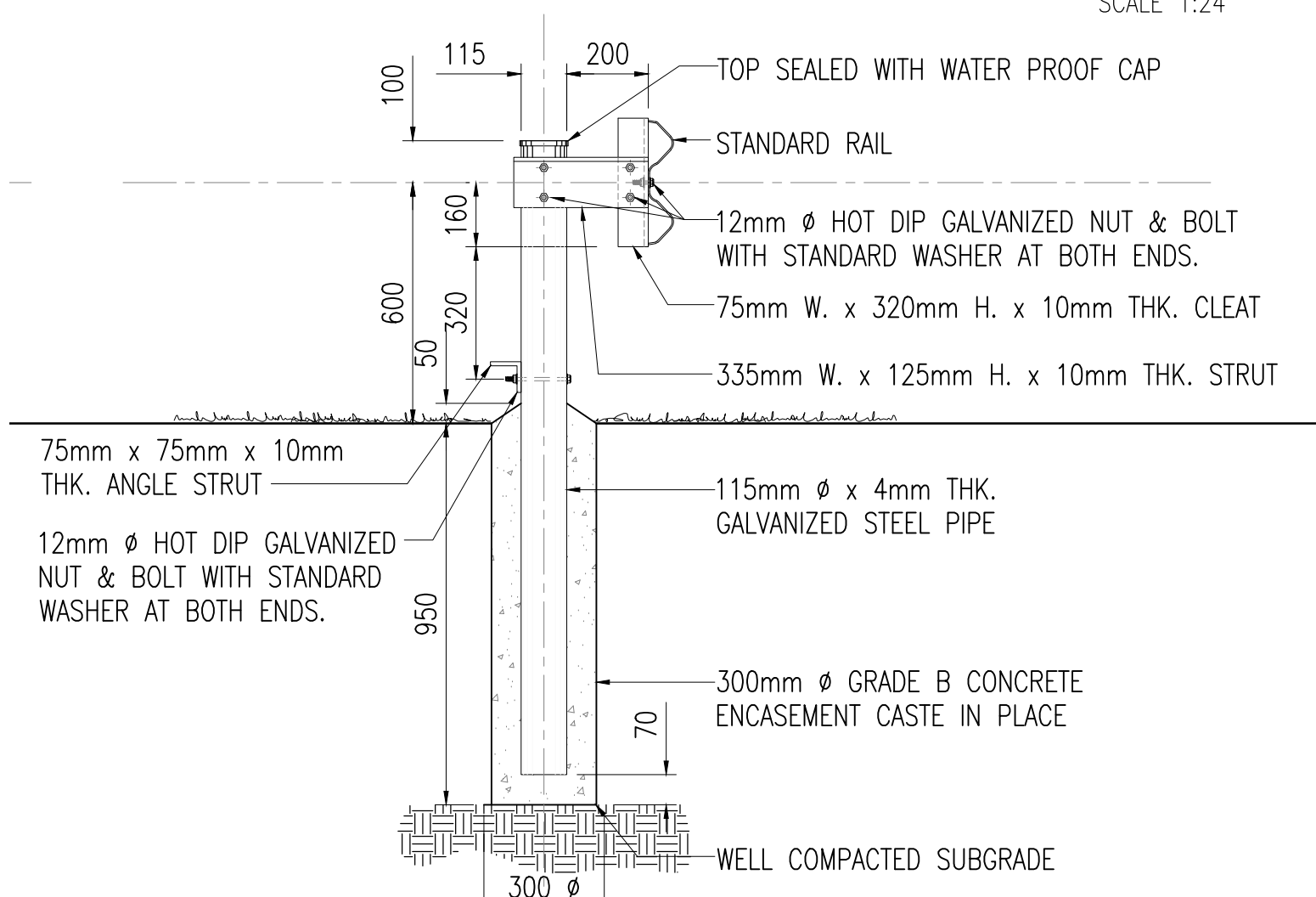
GUARD RAIL
(PLAN OF TYPICAL END SECTION)

SCALE 1:32



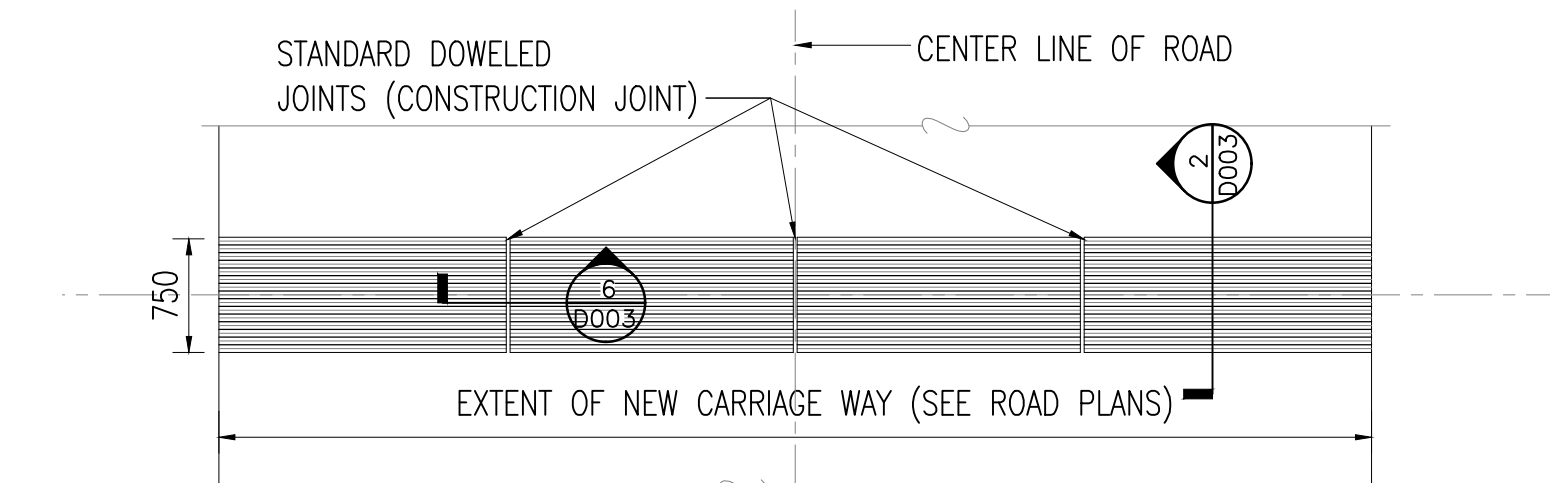
STANDARD GUARD RAIL DETAILS

SCALE 1:24



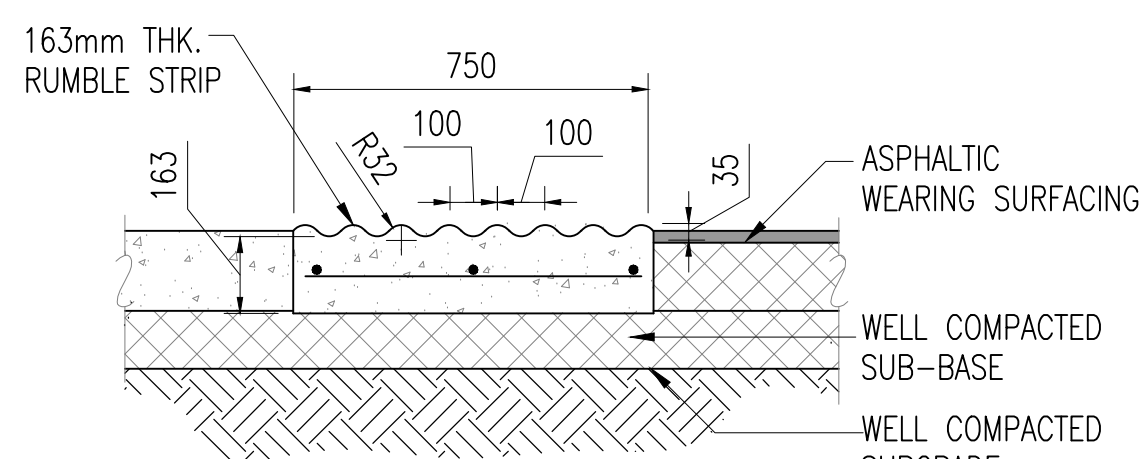
SECTION 1-1 / D003

SCALE 1:16



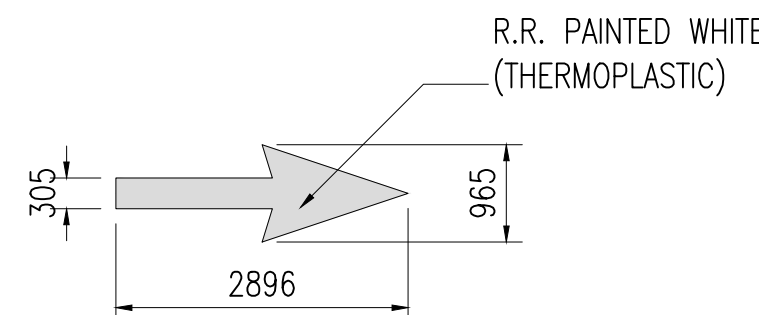
STANDARD CONCRETE RUMBLE STRIP (PLAN)

SCALE 1:50



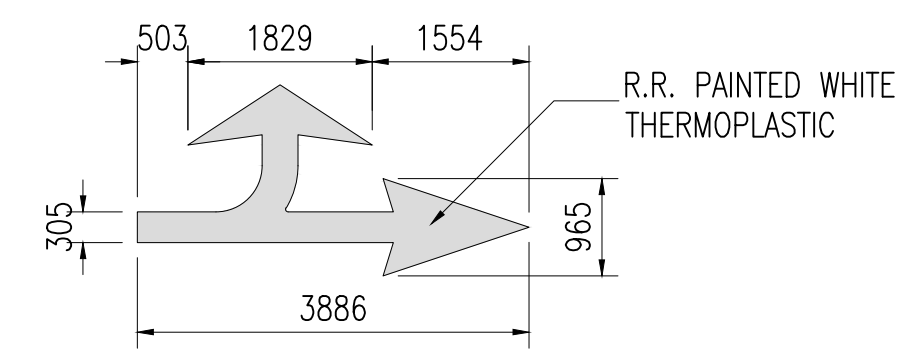
SECTION 2-2 / D003

SCALE 1:16



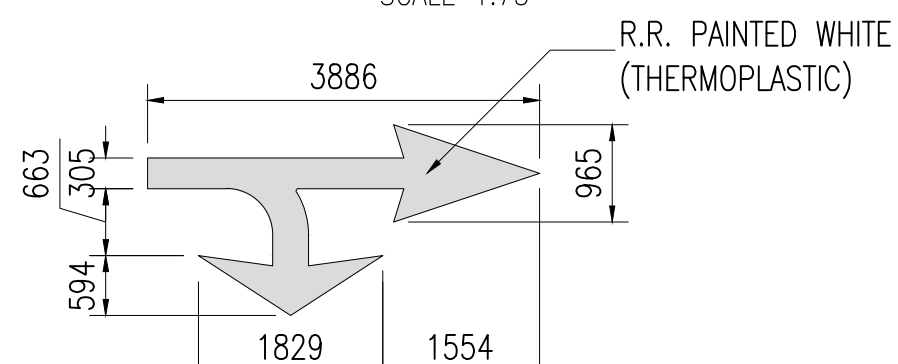
STRAIGHT ARROW

SCALE 1:75



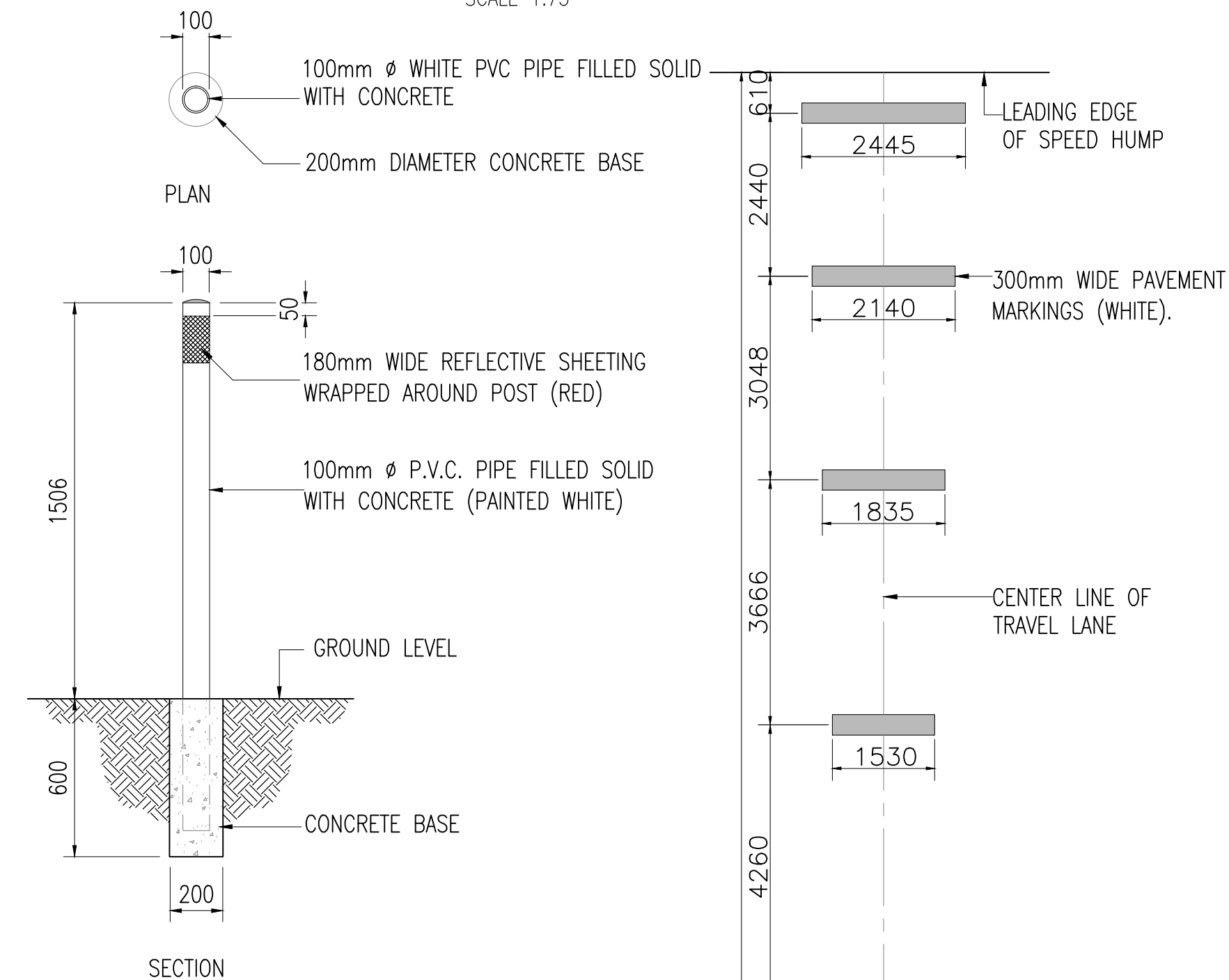
LEFT TURN / STRAIGHT ARROW

SCALE 1:75



RIGHT TURN / STRAIGHT ARROW

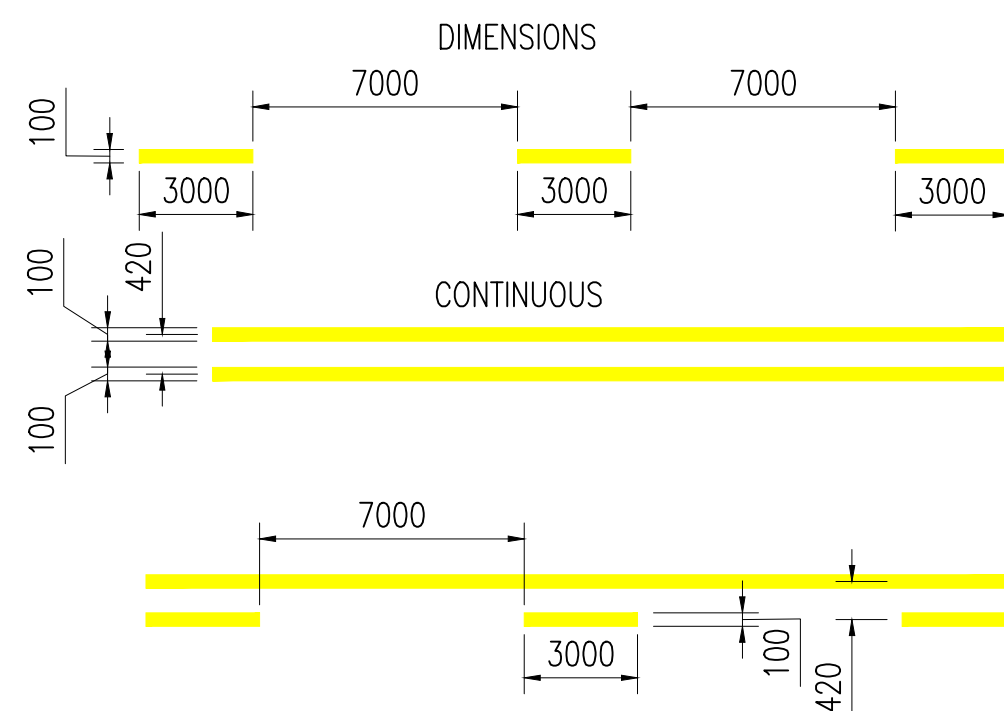
SCALE 1:75



TYPICAL DELINEATORS DETAIL

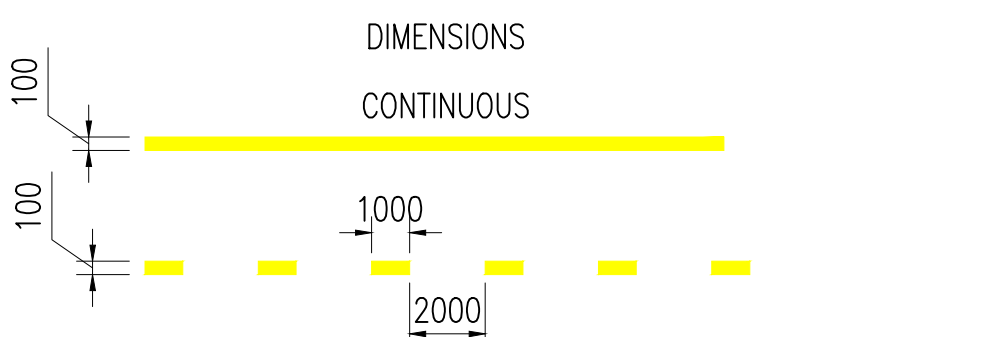
SCALE 1:24

- TYPE
- No. 1 YELLOW CENTER LINE FOR OVERTAKING (LONG GAPS)
- No. 2 YELLOW DOUBLE LINE (PROHIBIT LINE - NO OVERTAKING)
- No. 4 YELLOW DOUBLE LINE (OVERTAKE ON ONE SIDE ONLY)

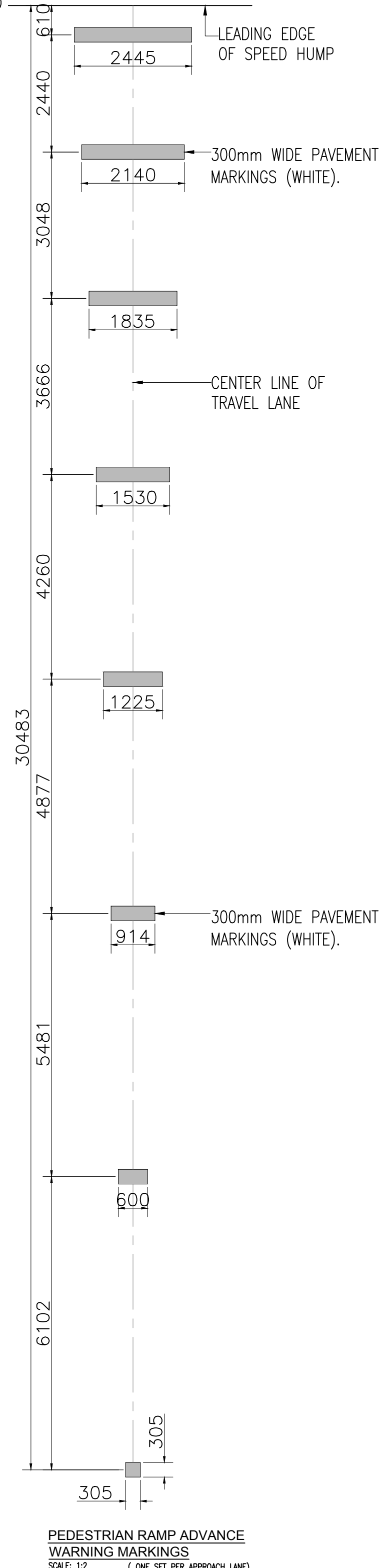


ROAD MARKINGS (CENTER LINES).

- TYPE
- No. 5 WHITE LINE
- No. 6 WHITE BROKEN LINE (SHORT GAPS)



ROAD MARKINGS (EDGE LINES).



PEDESTRIAN RAMP ADVANCE WARNING MARKINGS
SCALE 1:2 (ONE SET PER APPROACH LANE)

Notes:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL ELEVATIONS ARE IN METERS AND RELATE TO PROJECT DATUM.

BEAM BARRIER

- THE SECTION SHALL BE HOT DIP GALVANIZED TO B.S. 729 FOR A COATING THICKNESS OF AT LEAST 450g / m².

BEAM BARRIER POST

- POST SHALL BE FORMED FROM POST 43A STEEL COMPLYING WITH B.S. 4360 AND SHALL BE WITHIN TOLERANCE STATED IN B.S.4.
- POST SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH B.S. 729 TO A COATING OF AT LEAST 610g / m².
- POSTS FABRICATION FROM HALLOW SECTIONS SHALL BE SEALED WITH WATER PROOF CAPS OF CORROSION RESISTANT METAL, PLASTIC OR OTHER APPROVED MATERIAL.

CLEATS AND STRUTS

- CLEATS AND STRUTS SHALL BE FABRICATED FROM ANGLE SECTION TO B.S. 4 OF WELDABLE STRUCTURAL STEEL COMPLYING WITH B.S. 4360, GRADE 43A.
- AFTER FABRICATION, CLEATS AND STRUTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH B.S. 729 TO A COATING OF AT LEAST 610g/m².

NUT AND BLOT

- NUTS, BOLTS AND WASHER SHALL BE GALVANIZED IN ACCORDANCE WITH B.S. 729 TO A COATING OF AT LEAST 375g / m².
- NUTS AND BOLT SHALL COMPLY WITH B.S. 4190 EXCEPT OTHERWISE STATED.

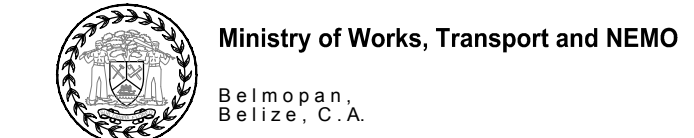
END APPLICATION

- PROVIDE TERMINAL F - 100 (ENERGY ABSORBENT) AT END APPLICATION ONLY.

100% FINAL DESIGN

Revision	By	Checked/Approved	Date	Description
D	HS	MR	MS	100% FINAL DESIGN
C	KA	MR	MS	100% Design
B	KMJ	KA	MS	60% ISSUE
A	KMJ	KA	MS	PRELIMINARY ISSUE

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 9683
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Project: George Price Highway Rehabilitation Project

Drawing Title

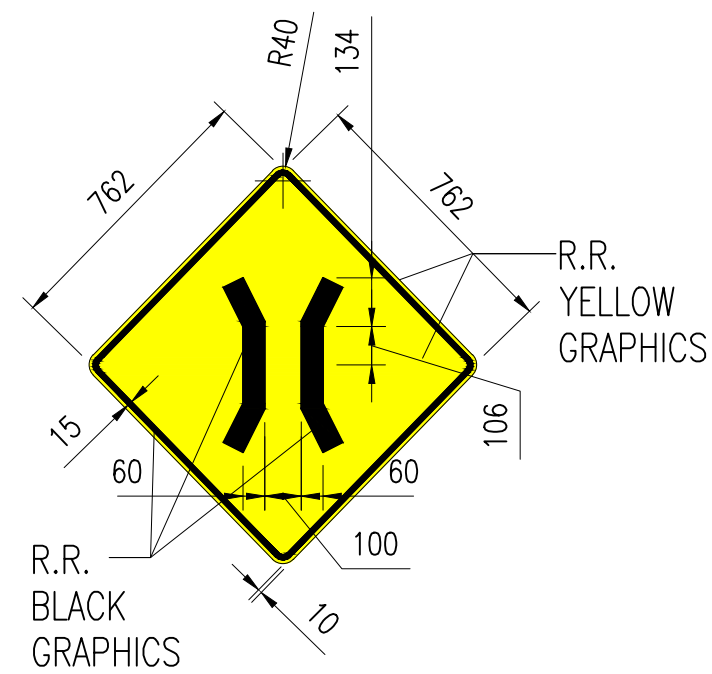
TYPICAL ROAD CROSSING & SAFETY DETAILS

Drawn by: KMJ Date: MAR 18, 2016
Checked by: KA Date: MAR 18, 2016
Authorised by: MS Date: MAR 18, 2016

Drawing No. GPHRP-080-S1-D004 Revision D

Drawing Scale: As noted on A1

Plot Scale: 1 : 1



BRIDGE - D1
SCALE 1:500

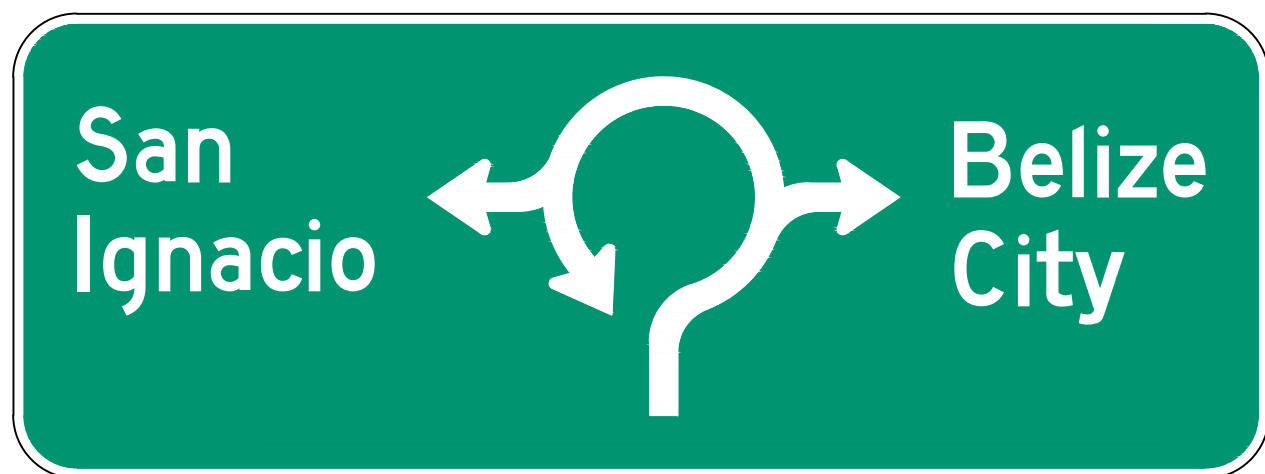
DESCRIPTION:
WARNING SIGN - BLACK GRAPHICS ON A YELLOW
BACKGROUND WITH A BLACK BORDER



DIRECTIONAL SIGN - D5
SCALE 1:500

DIM: 2.7m (H) x 2.3m (W)

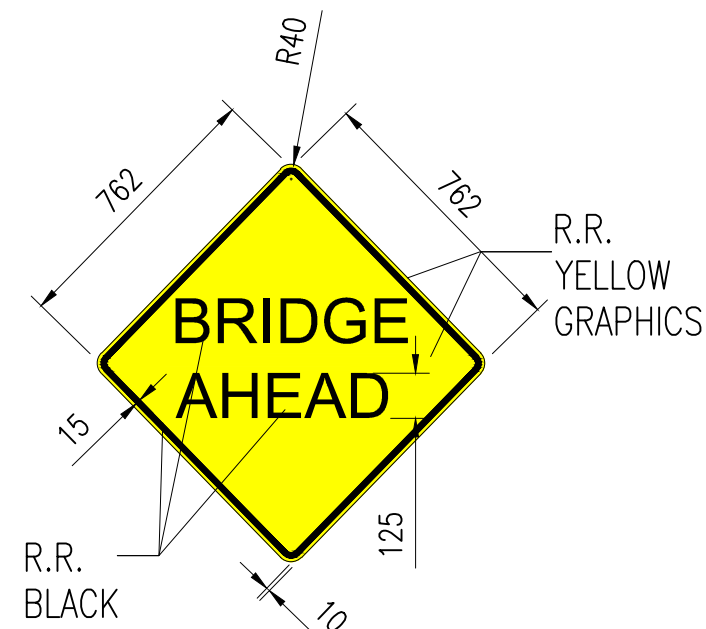
DESCRIPTION:
ADVANCE DIRECTION - WHITE LETTERING & SYMBOL ON A GREEN
BACKGROUND WITH A WHITE BORDER (TEXT HEIGHT :
UPPERCASE - 0.21m, LOWERCASE - 0.15m)
FONT: SERIES E 2000 (FHWA)
BORDER WIDTH: 0.025m
ROUNDAABOUT SYMBOL: OUTER Ø 0.33m, INNER 0.25m, LENGTH OF
DIRECTIONAL ARMS: 0.162m with 0.17m ARROWHEAD, LENGTH OF
ENTRANCE ARM 0.267m



DIRECTIONAL SIGN - D6
SCALE 1:500

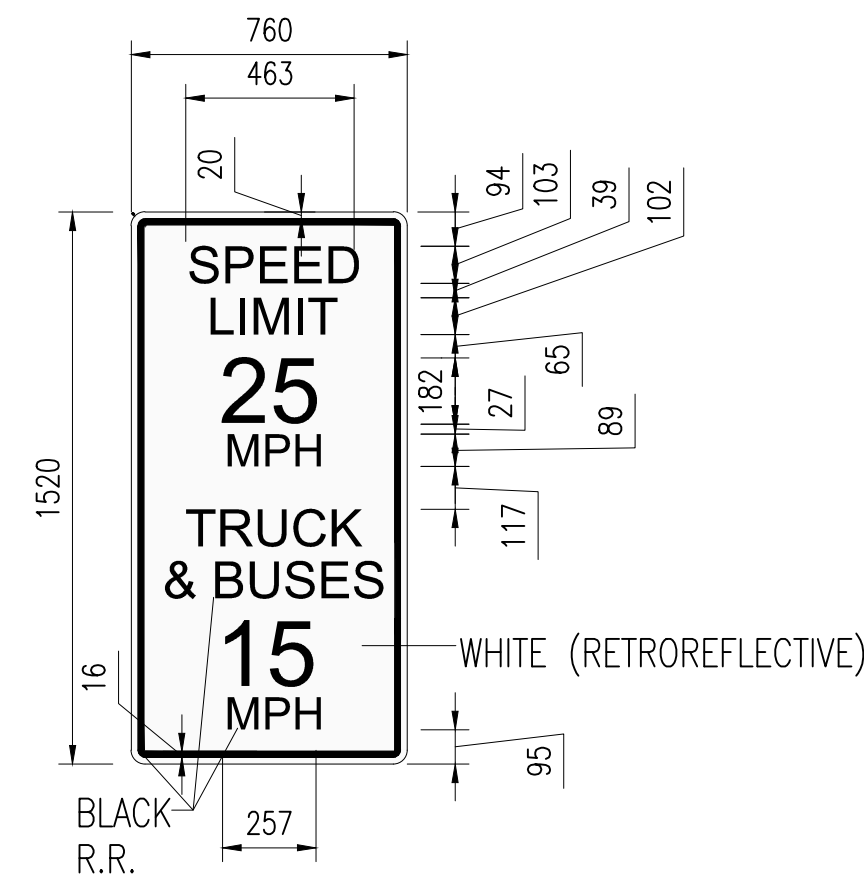
DIM: 1.4m (H) x 3.5m (W)

DESCRIPTION:
ADVANCE DIRECTION - WHITE LETTERING & SYMBOL ON A GREEN
BACKGROUND WITH A WHITE BORDER (TEXT HEIGHT :
UPPERCASE - 0.21m, LOWERCASE - 0.15m)
FONT: SERIES E 2000 (FHWA)
BORDER WIDTH: 0.025m
ROUNDAABOUT SYMBOL: OUTER Ø 0.33m, INNER 0.25m, LENGTH OF
DIRECTIONAL ARMS: 0.162m with 0.17m ARROWHEAD, LENGTH OF
ENTRANCE ARM 0.267m



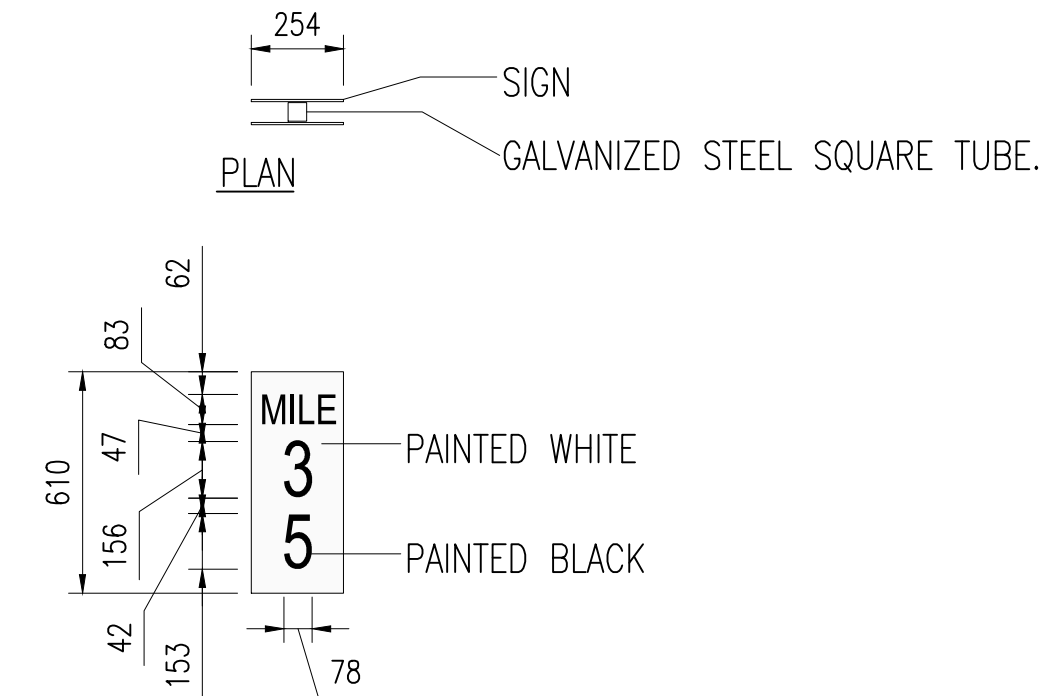
BRIDGE AHEAD - D2
SCALE 1:500

DESCRIPTION:
WARNING SIGN - BLACK GRAPHICS
ON A YELLOW BACKGROUND WITH A
BLACK BORDER



SPEED LIMIT - D3
SCALE 1:500

DESCRIPTION:
REGULATORY SIGN - BLACK
GRAPHICS ON A WHITE BACKGROUND
WITH A BLACK BORDER



MILE MARKER - D4
SCALE 1:500

DESCRIPTION:
REGULATORY SIGN - BLACK
GRAPHICS ON A WHITE BACKGROUND
WITH A BLACK BORDER

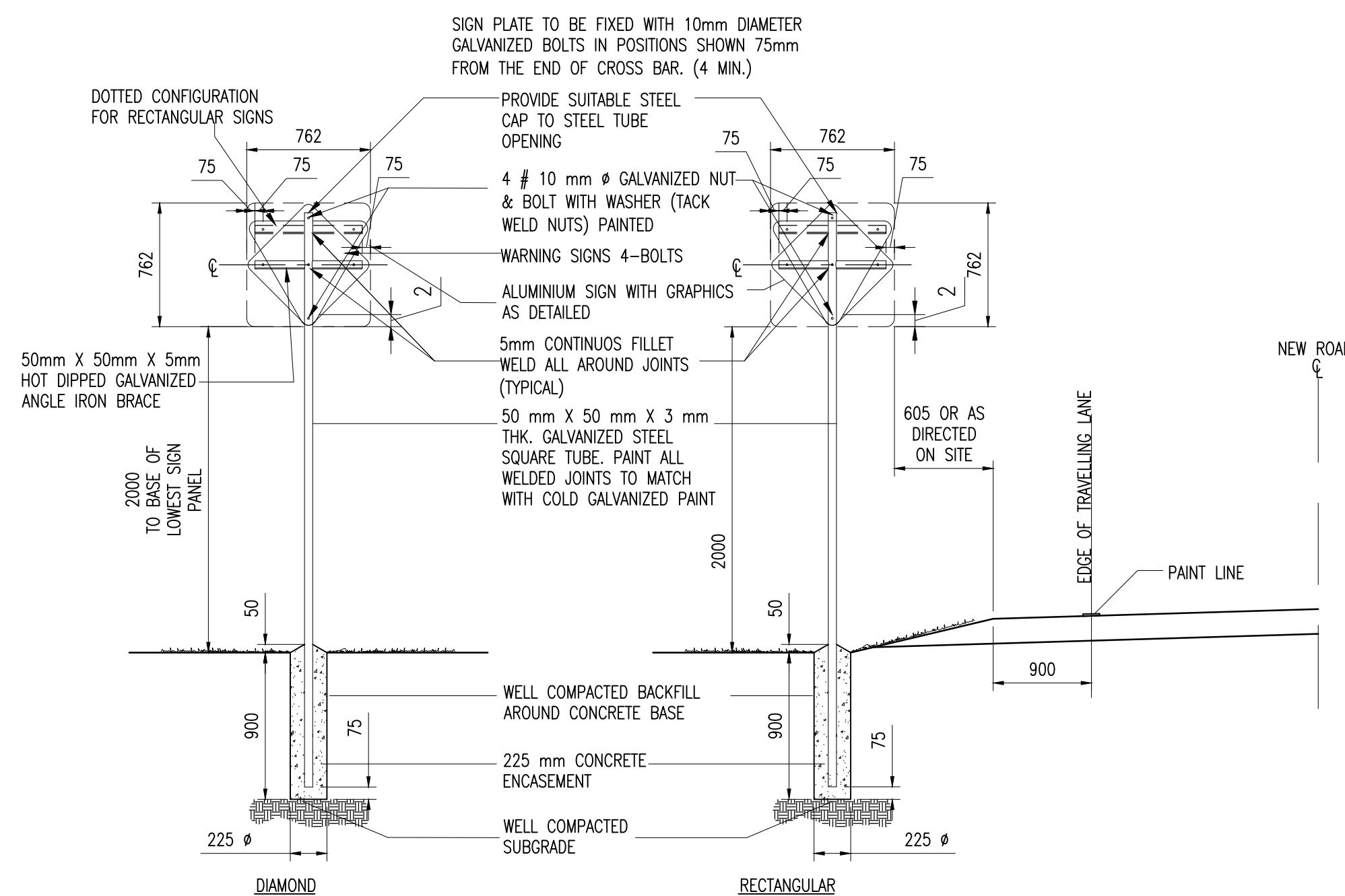


DIRECTIONAL SIGN - D7
SCALE 1:500

DIM: 2.3m (H) x 2.9m (W)

DESCRIPTION:
ADVANCE DIRECTION - WHITE LETTERING & SYMBOL ON A
GREEN BACKGROUND WITH A WHITE BORDER (TEXT HEIGHT :
UPPERCASE - 0.21m, LOWERCASE - 0.15m)
FONT: SERIES E 2000 (FHWA)
BORDER WIDTH: 0.025m
ROUNDAABOUT SYMBOL: OUTER Ø 0.33m, INNER 0.25m,
LENGTH OF DIRECTIONAL ARMS: 0.162m with 0.17m
ARROWHEAD, LENGTH OF ENTRANCE ARM 0.267m

NOTE: FOR DOUBLE COLUMN GROUND
SIGN DETAILS SEE DRAWING
GPHRO/080/D007



TYPICAL SINGLE COLUMN GROUND SIGN CROSS SECTIONS
SCALE 1:750

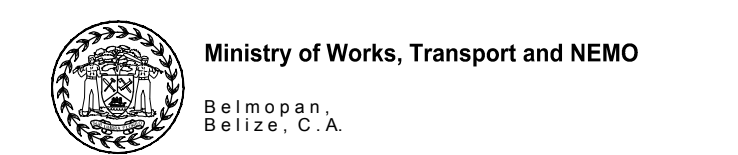
Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and levels to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in millimeters unless otherwise noted.

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	18.10.16	100% Final Design
C	KA	MR	MS	04.10.16	100% Design
B	KA	KA	MS	08.05.16	60% DESIGN SIGN REFERENCE NUMBERS ADDED
A	KMJ	KA	MS	18.03.16	PRELIMINARY ISSUE

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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www.ch2m.com



Project
George Price Highway Rehabilitation Project

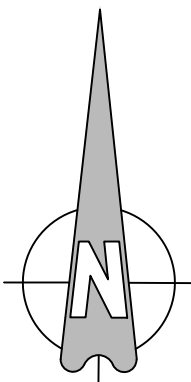
Drawing Title

SECTION 1 TYPICAL SIGNS AND DETAILS
STA. 0+000 TO STA. 0+485

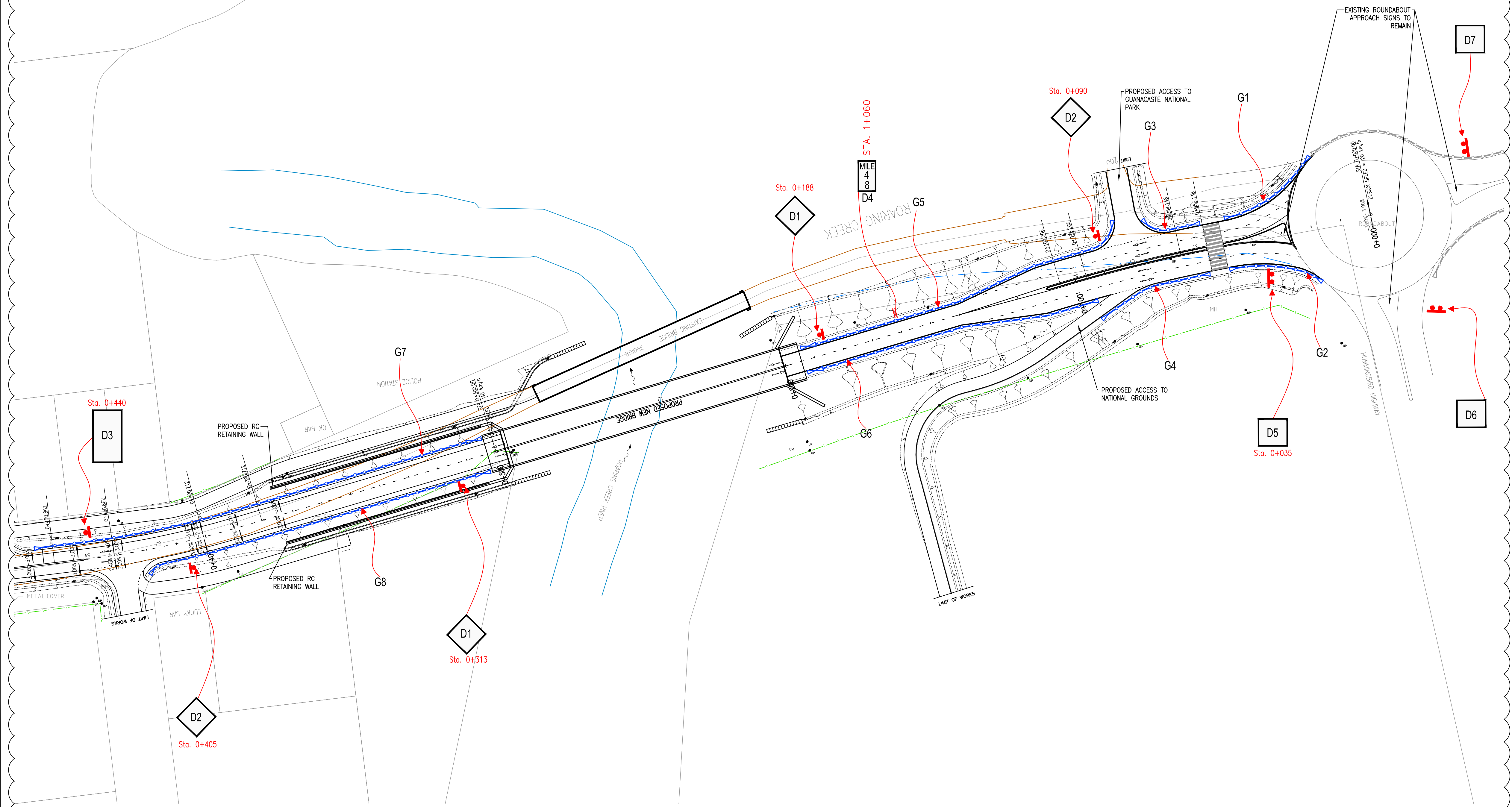
Drawn by KMJ Date: MAR 08, 2016
Checked by KA Date: MAR 08, 2016
Authorised by MS Date: MAR 08, 2016

Drawing No. GPHRP-080-S1-D005 Revision D
Drawing Scale: As noted on A1
Plot Scale: 1 : 1

D



GUARDRAIL TABLE - STA. 0+000 to STA. 0+485						
GUARDRAIL ID	BEGIN STATION	ALIGNMENT	END STATION	ALIGNMENT	LOCATION	LENGTH
G1	0+015.49	MAINLINE	0+049.23	MAINLINE	WEST BOUND RIGHT VERGE	30.48m
G2	0+017.78	MAINLINE	0+049.23	MAINLINE	EAST BOUND RIGHT VERGE	26.67m
G3	0+055.87	MAINLINE	0+075.01	MAINLINE	WEST BOUND RIGHT VERGE	15.24m
G4	0+055.87	MAINLINE	0+095.34	MAINLINE	EAST BOUND RIGHT VERGE	34.29m
G5	0+083.12	MAINLINE	0+193.54	MAINLINE	WEST BOUND RIGHT VERGE	106.68m
G6	0+091.85	MAINLINE	0+193.55	MAINLINE	EAST BOUND RIGHT VERGE	91.44m
G7	0+303.42	MAINLINE	0+455.65	MAINLINE	WEST BOUND RIGHT VERGE	144.78m
G8	0+303.42	MAINLINE	0+418.57	MAINLINE	EAST BOUND RIGHT VERGE	110.49m



ROARING CREEK BRIDGE APPROACH
ROAD MARKINGS, GUARDRAILS AND SIGNING DETAILS
Scale 1:750

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings including GPHRP/080/D001 to D007.
 - All dimensions to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.

Section Locations

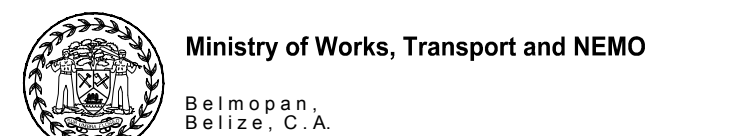
SECTION 1 - STA. 0+000 to 0+485
SECTION 2 - STA. 0+485 to 16+036
SECTION 3 - STA. 16+036 to 32+924

- Legend:
- Proposed Double Sign Post & Sign Panel
 - Proposed Single Sign Post & Sign Panel
 - Proposed Informative Signs
 - Proposed Regulatory Signs
 - Proposed Warning Signs
 - Guardrail
 - Existing Guardrail
 - Guardrail Terminal
 - Guardrail Transition
 - Mile Marker Post

100% FINAL DESIGN

B	MR	KA	MS	18.08.16	20.10.16	100% FINAL DESIGN
A	MR	KA	MS	18.08.16		FIRST SUBMISSION
Revision	By	Checked	Approved	Date		Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project
George Price Highway
Rehabilitation Project

Drawing Title
ROAD MARKINGS, GUARDRAILS AND SIGNING PLANS
SECTION 1
STA. 0+000 TO STA. 0+485

Drawn by MR Date: 18 AUG, 2016
Checked by KA Date: 18 AUG, 2016
Authorised by MS Date: 18 AUG, 2016

Drawing No.
GPHRP-080-S1-D006

Revision
B

Drawing Scale: NTS
Plot Scale: 1 : 1

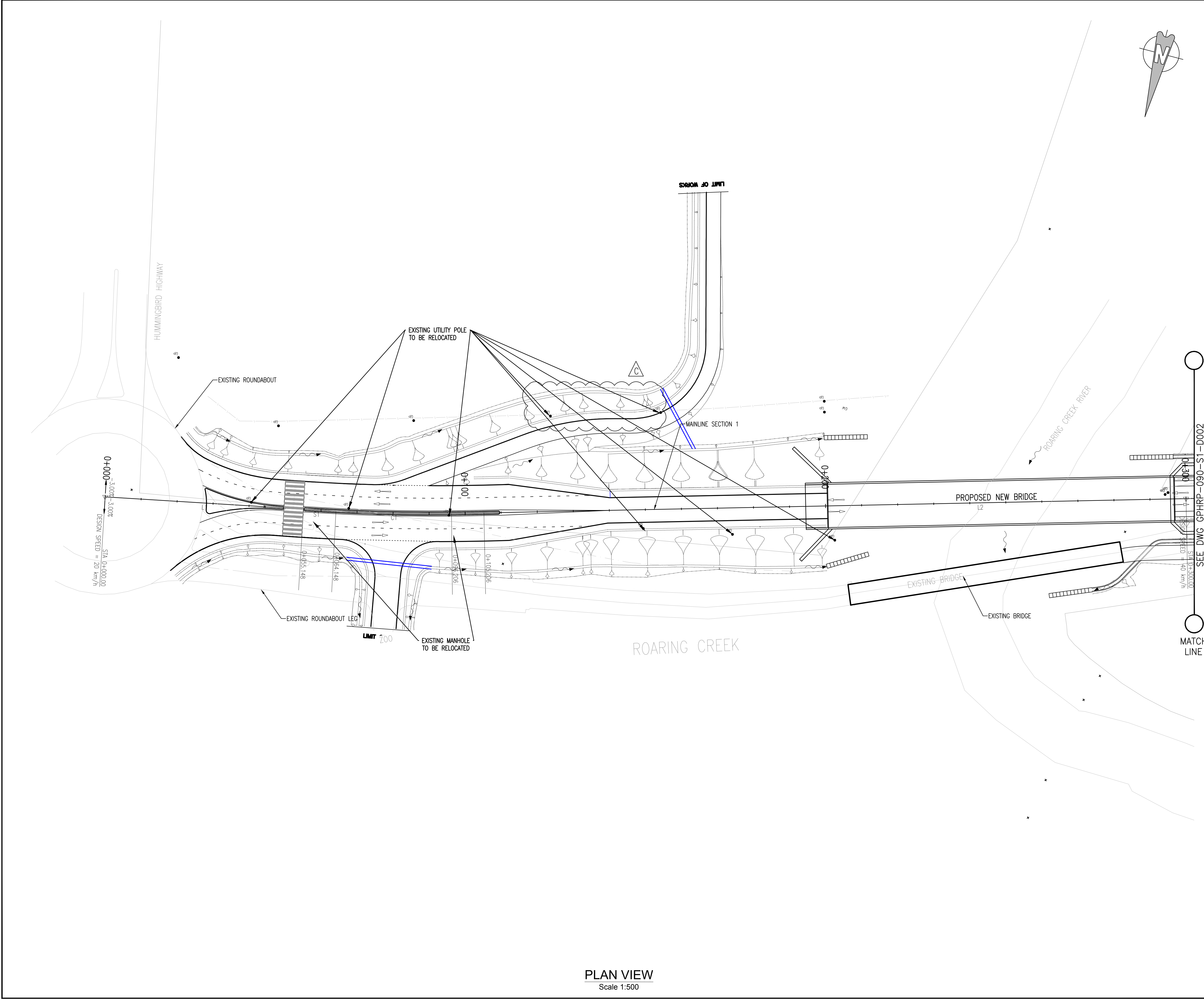
Drawing file path & name: C:\Users\Battam\My Desktop\Belize\Signing & Roadmarking\GPHRP-080-S1-D006B1.dwg
Reference file path: C:\Users\Battam\My Desktop\Belize\Signing & Roadmarking\GPHRP-080-S1-D006B1.dwg
User: Battam, 28/10/2016 3:15 pm



—

100% FINAL DESIGN

Plot Scale: 1 : 1



- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.
 5. Distance between post 55m.
 6. Cables to be run in 100mm PVC SCH 40 conduit

Legend:

- Cut/Fill Slopes
- ===== Proposed Ditch
- ~> DRAINAGE FLOW ARROW
- UP EXISTING UTILITY POLE

100% FINAL DESIGN

C	KA	MR	MS	19.10.16	100% FINAL Design
B	KA	MR	MS	23.09.16	100% Design
A	KA	KJ	MS	06.05.16	FIRST SUBMISSION
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO
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Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

George Price Highway
Rehabilitation Project

Drawing Title

EXISTING UTILITIES SECTION 1 STA. 0+000- 0+300

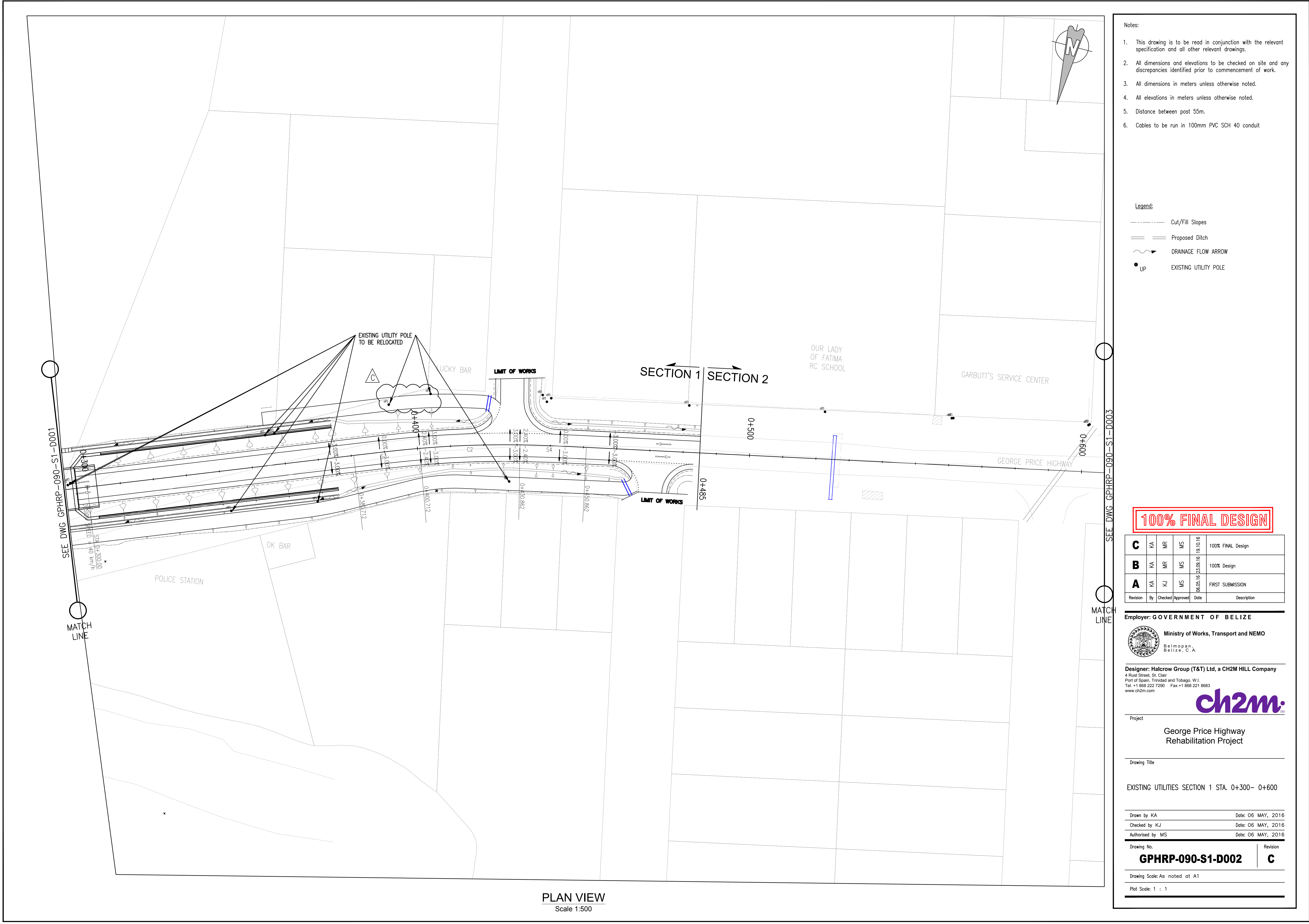
Drawn by KA Date: 06 MAY, 2016
Checked by KJ Date: 06 MAY, 2016
Authorised by MS Date: 06 MAY, 2016

Drawing No. Revision
GPHRP-090-S1-D001 **C**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

PLAN VIEW
Scale 1:500



PLAN VIEW
Scale 1:500


- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.
 5. Distance between post 55m.
 6. Cables to be run in 100mm PVC SCH 40 conduit

- Legend:
- Cut/Fill Slopes
 - ==== Proposed Ditch
 - ~> DRAINAGE FLOW ARROW
 - Up EXISTING UTILITY POLE

100% FINAL DESIGN

C	KA	MR	MS	19.10.16	100% FINAL Design
B	KA	MR	MS	23.09.16	100% Design
A	KA	KJ	MS	06.05.16	FIRST SUBMISSION
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

 Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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www.ch2m.com



Project

George Price Highway
Rehabilitation Project

Drawing Title

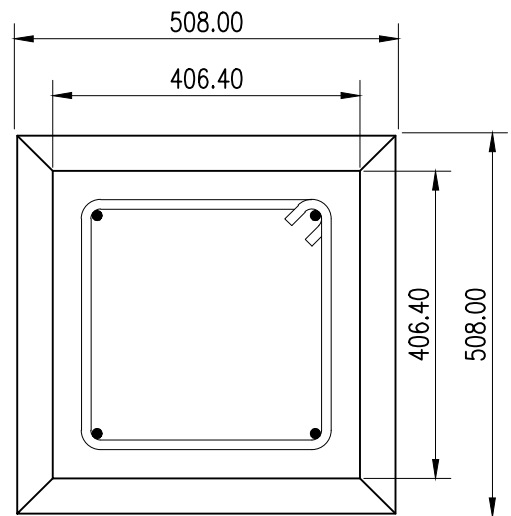
EXISTING UTILITIES SECTION 1 STA. 0+300- 0+600

Drawn by KA	Date: 06 MAY, 2016
Checked by KJ	Date: 06 MAY, 2016
Authorised by MS	Date: 06 MAY, 2016

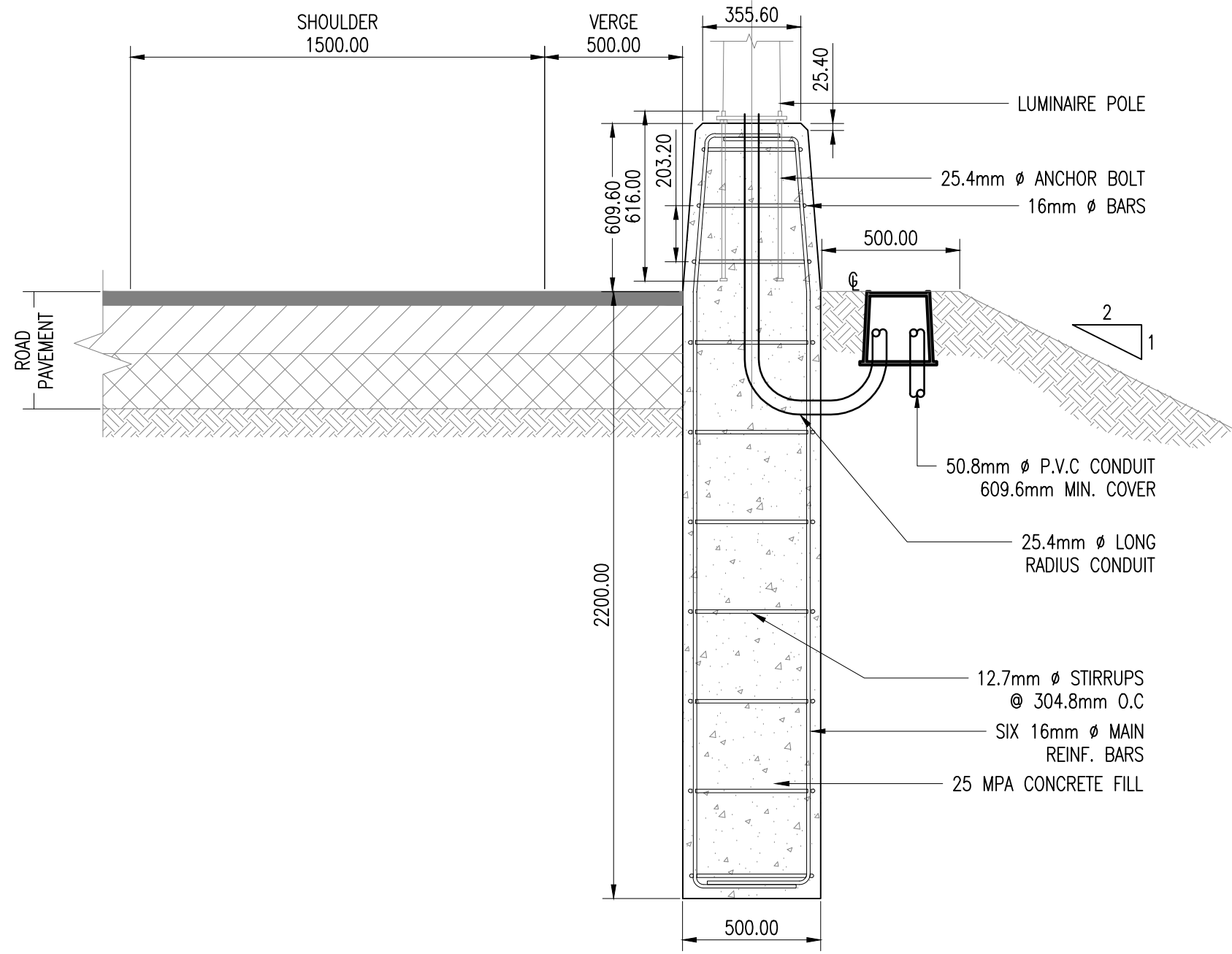
Drawing No.	Revision
GPHRP-090-S1-D002	C

Drawing Scale: As noted at A1

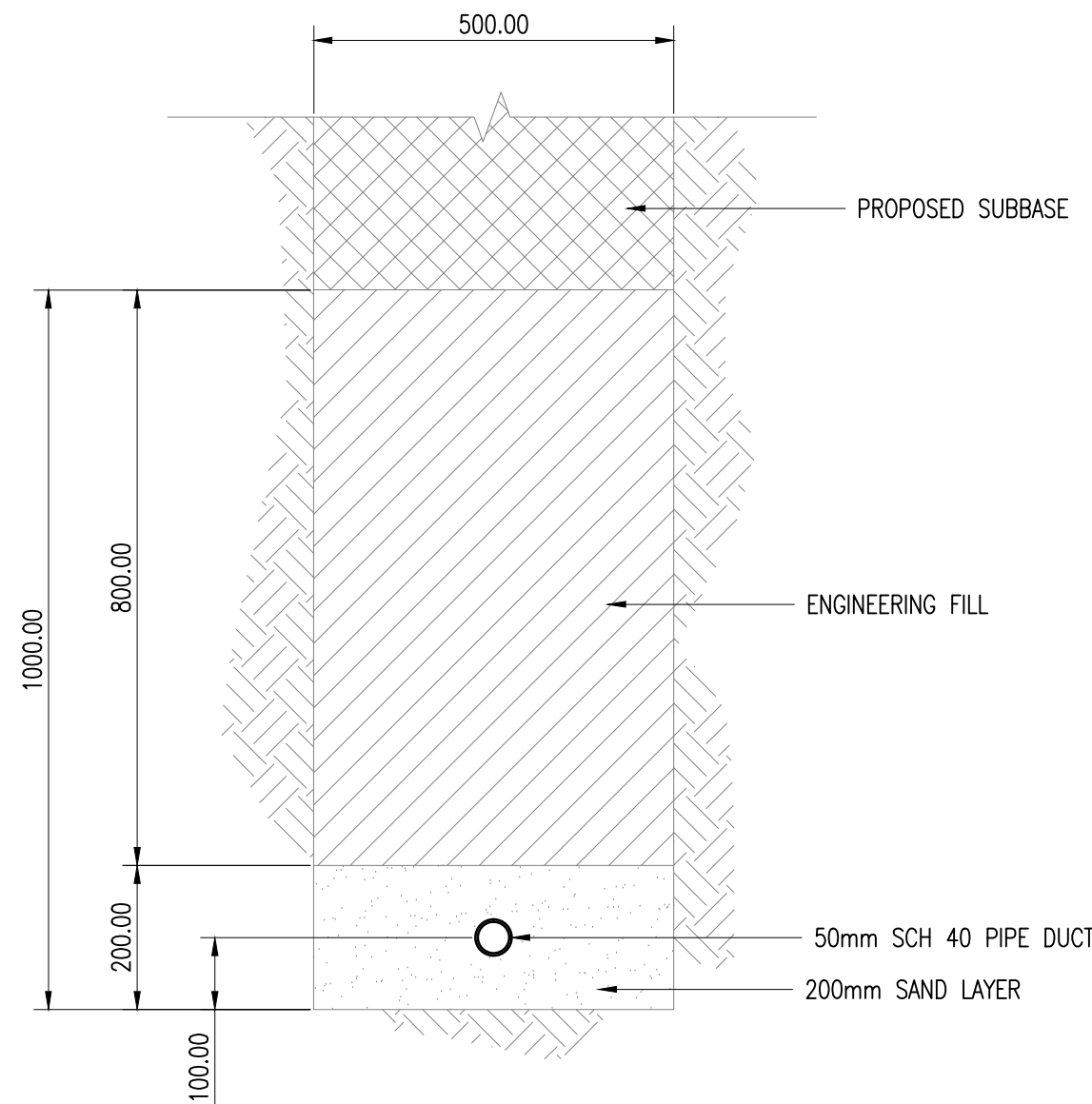
Plot Scale: 1 : 1



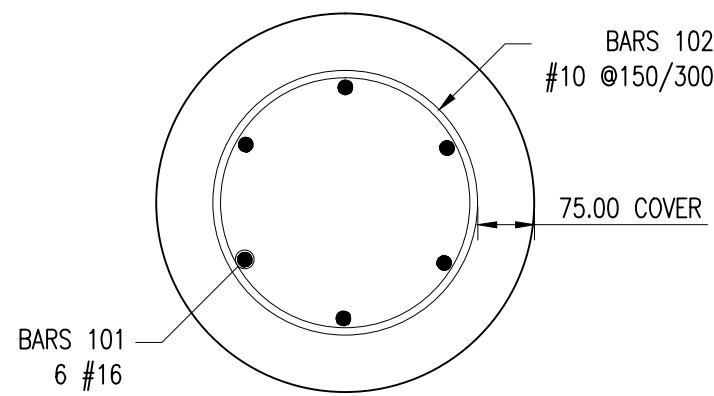
PLINTH PLAN
Scale 1:10



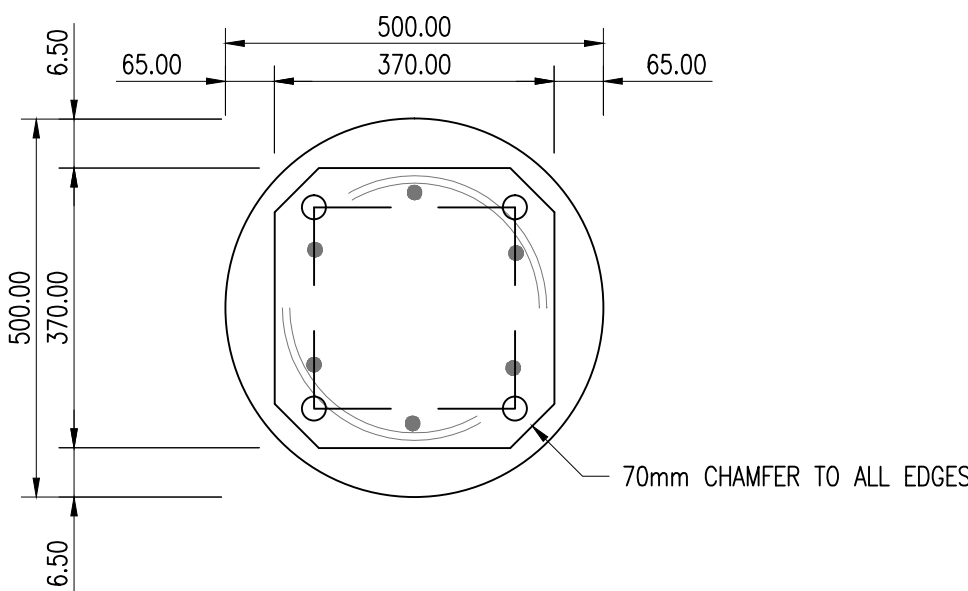
PLINTH FOOTING DETAIL
Scale 1:20



TYPICAL UNDERGROUND DUCTING
Scale 1:10



AUGER PILE DETAIL
Scale 1:20



AUGER PILE TOP PLAN
Scale 1:20

REINFORCING SCHEDULE							
BAR	SIZE (mm ²)	TYPE	SPACING (mm)	DIM "A" (mm)	DIM "B" (mm)	DIM "C" (mm)	DIM "G" (mm)
101	25	1			1990		
102	10	24	150 & 300		150	450	
107	12	11		730	600	730	
108	12	1			725		
109	12	1			410		

Notes:

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- All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
- All dimensions in meters unless otherwise noted.
- All elevations in meters unless otherwise noted.
- The foundation for Standard Roadway Light Poles (max. 12m Steel Column with 3m protection bracket) are pre-designed and based upon the following conservative soil criteria which covers the majority of soil types found at Phase 1 Golconda to Debe:
Classification: Sand / Clay
Friction Angle: 25°
Unit Weight: 15 kN/m³
Undrained Shear strength: 60 kN/m²
Only in cases where the Designer considers the soil types at the specific site location to be lesser strength properties should an analysis be required.
- Foundation Materials:
Reinforcing Steel: ASTM 615 Grade 60
Concrete: Class A with a min. 30 MPa compressive strength at 28 days.
Anchor Bolts: ASTM F1554 Grade 55 with ASTM A563 Grade DH nuts and ASTM F436 Type I washers (all galvanized in accordance with ASTM F2329).

100% FINAL DESIGN

B	HS	SAM	MS	19.10.16	100% FINAL DESIGN
A	KA	SAM	MS	12.10.16	100% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works, Transport and NEMO

Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com



Project

George Price Highway
Rehabilitation Project

Drawing Title

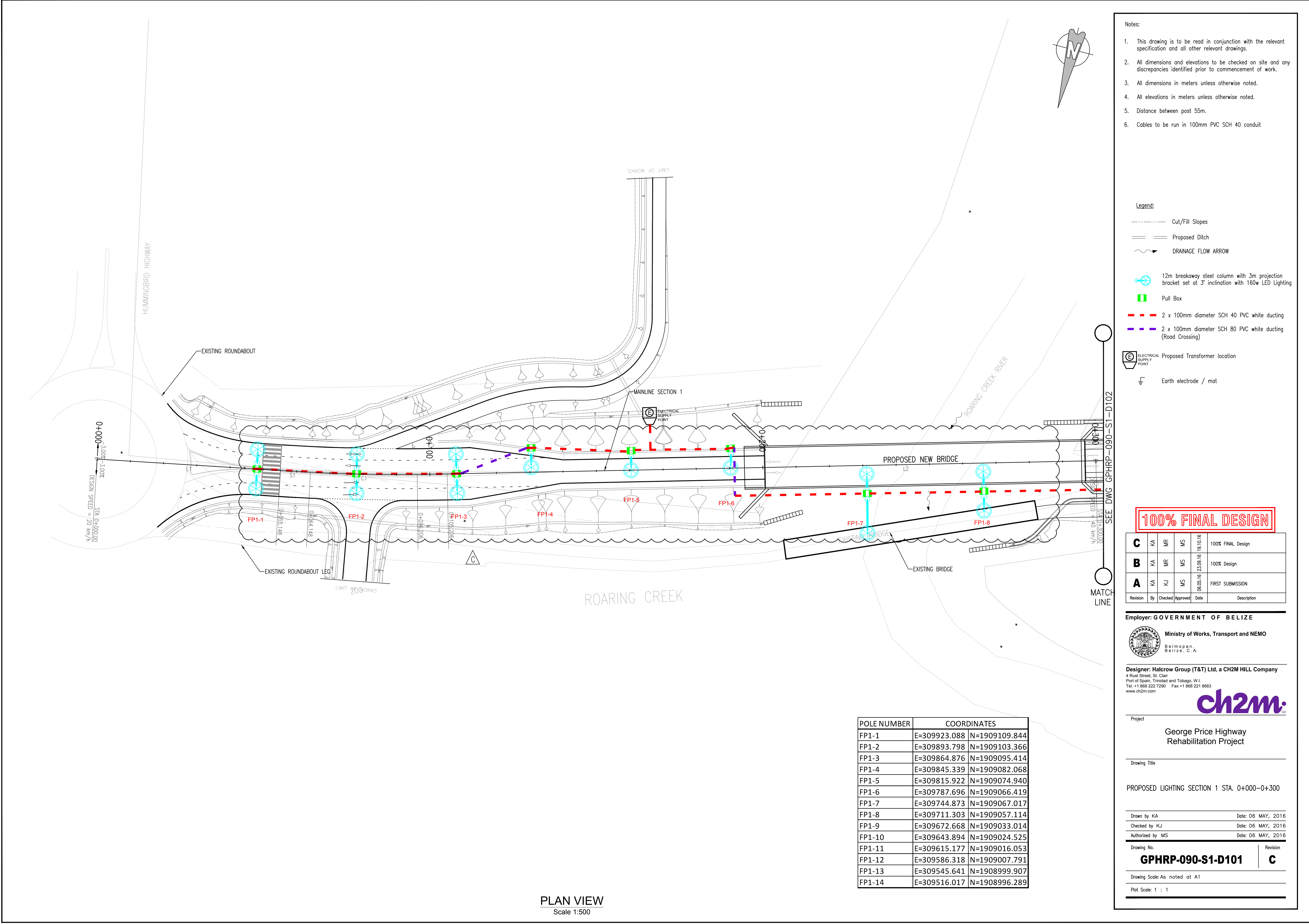
LIGHTING POLE BASE DETAIL

Drawn by KA	Date: 12 OCT, 2016
Checked by SAM	Date: 12 OCT, 2016
Authorised by MS	Date: 12 OCT, 2016

Drawing No.	Revision
GPHRP-090-S1-D003	B

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.
 5. Distance between post 55m.
 6. Cables to be run in 100mm PVC SCH 40 conduit

- Legend:
- Cut/Fill Slopes
 - ===== Proposed Ditch
 - ~> DRAINAGE FLOW ARROW
 - 12m breakaway steel column with 3m projection bracket set at 3° inclination with 160w LED Lighting
 - Pull Box
 - 2 x 100mm diameter SCH 40 PVC white ducting
 - 2 x 100mm diameter SCH 80 PVC white ducting (Road Crossing)
 - ELECTRICAL SUPPLY POINT Proposed Transformer location
 - Earth electrode / mat

100% FINAL DESIGN

C	KA	MR	MS	19.10.16	100% FINAL Design
B	KA	MR	MS	23.09.16	100% Design
A	KA	KJ	MS	06.05.16	FIRST SUBMISSION
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works, Transport and NEMO

Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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Project

George Price Highway Rehabilitation Project

Drawing Title

PROPOSED LIGHTING SECTION 1 STA. 0+000-0+300

Drawn by KA Date: 06 MAY, 2016

Checked by KJ Date: 06 MAY, 2016

Authorised by MS Date: 06 MAY, 2016

Drawing No. **GPHRP-090-S1-D101** Revision **C**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

POLE NUMBER	COORDINATES	
FP1-1	E=309923.088	N=1909109.844
FP1-2	E=309893.798	N=1909103.366
FP1-3	E=309864.876	N=1909095.414
FP1-4	E=309845.339	N=1909082.068
FP1-5	E=309815.922	N=1909074.940
FP1-6	E=309787.696	N=1909066.419
FP1-7	E=309744.873	N=1909067.017
FP1-8	E=309711.303	N=1909057.114
FP1-9	E=309672.668	N=1909033.014
FP1-10	E=309643.894	N=1909024.525
FP1-11	E=309615.177	N=1909016.053
FP1-12	E=309586.318	N=1909007.791
FP1-13	E=309545.641	N=1908999.907
FP1-14	E=309516.017	N=1908996.289

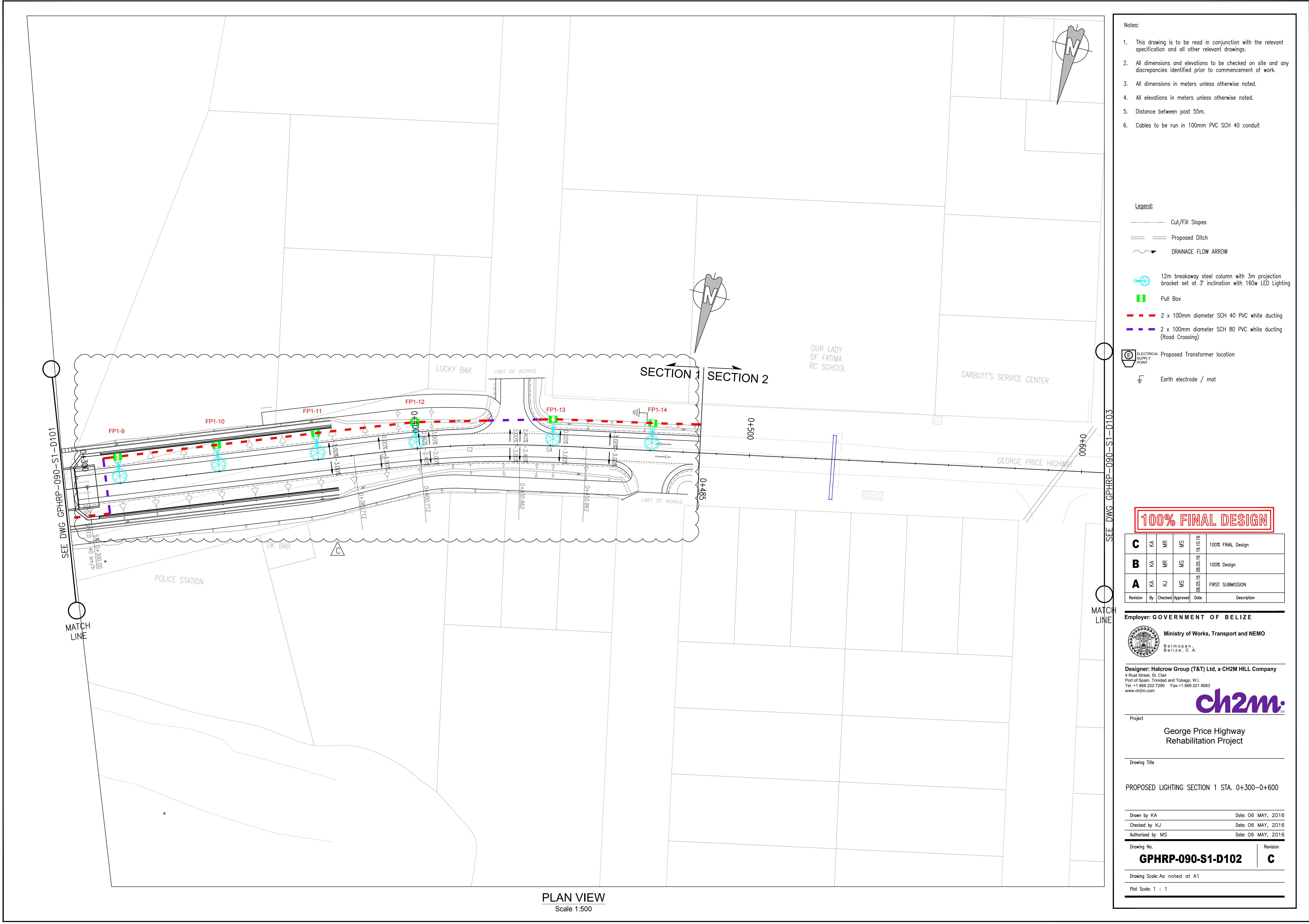
PLAN VIEW

Scale 1:500

Drawing file path & name: C:\WORK\BELIZE\CD-George Price Highway Rehabilitation Project\Design\050 ROADWAY UTILITIES\GPHRP-090-S1-D102 PROPOSED LIGHTING SECTION 1 STA. 0+000-0+300.dwg

Reference file path: C:\WORK\BELIZE\CD-George Price Highway Rehabilitation Project\Design\050 ROADWAY UTILITIES\GPHRP-090-S1-D102 PROPOSED LIGHTING SECTION 1 STA. 0+000-0+300.dwg

User and Plot Date: 19.10.16



PLAN VIEW
Scale 1:500

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.
 5. Distance between post 55m.
 6. Cables to be run in 100mm PVC SCH 40 conduit

Legend:

- Cut/Fill Slopes
- ==== Proposed Ditch
- ~> DRAINAGE FLOW ARROW
- 12m breakaway steel column with 3m projection bracket set at 3° inclination with 160w LED Lighting
- Pull Box
- 2 x 100mm diameter SCH 40 PVC white ducting
- 2 x 100mm diameter SCH 80 PVC white ducting (Road Crossing)
- Proposed Transformer location
- Earth electrode / mat

100% FINAL DESIGN

C	KA	MR	MS	19.10.16	100% FINAL Design
B	KA	MR	MS	06.05.16	100% Design
A	KA	KJ	MS	06.05.16	FIRST SUBMISSION
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works, Transport and NEMO
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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www.ch2m.com



Project

George Price Highway
Rehabilitation Project

Drawing Title

PROPOSED LIGHTING SECTION 1 STA. 0+300-0+600

Drawn by KA Date: 06 MAY, 2016
Checked by KJ Date: 06 MAY, 2016
Authorised by MS Date: 06 MAY, 2016

Drawing No. Revision
GPHRP-090-S1-D102 C

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

Drawing file path & name: C:\WORK\BELIZE\CD-George Price Highway Project\Current Design\050 ROADWAY UTILITIES\GPHRP-090-S1-D102 PROPOSED LIGHTING SECTION 1 STA. 0+300-0+600.dwg
Reference file path: C:\WORK\BELIZE\CD-George Price Highway Project\Current Design\050 ROADWAY UTILITIES\
User and Plot Date : User: J. J. J. 2016-11-10 11:10:10

GEORGE PRICE HIGHWAY REHABILITATION

SECTION 2 STA. 0+485 TO 15+870

100% DESIGN PACKAGE

DRAWINGS INDEX

Sheet Numbers	Drawing Titles
GPHRP-050-S2-D201-D259	PLAN AND PROFILE
GPHRP-050-S1S2-D280-D282	HORIZONTAL & VERTICAL CURVE DATA
GPHRP-050-S2-S0-D001-D024	SETTINGOUT
GPHRP-050-S2-W2001-W2145	ROADWAY CROSS SECTIONS
GPHRP-060-S2-C00-D001-D016	TYPICAL CULVERT DETAILS
GPHRP-060-S2-C213-D001-D004	CULVERT 213 DETAILS
GPHRP-060-S2-C217-D001-D003	CULVERT 217 DETAILS
GPHRP-080-S2-D001-D008	TRAFFIC AND DETAILS
GPHRP-090-S2-D200-D202	UTILITIES

Client:

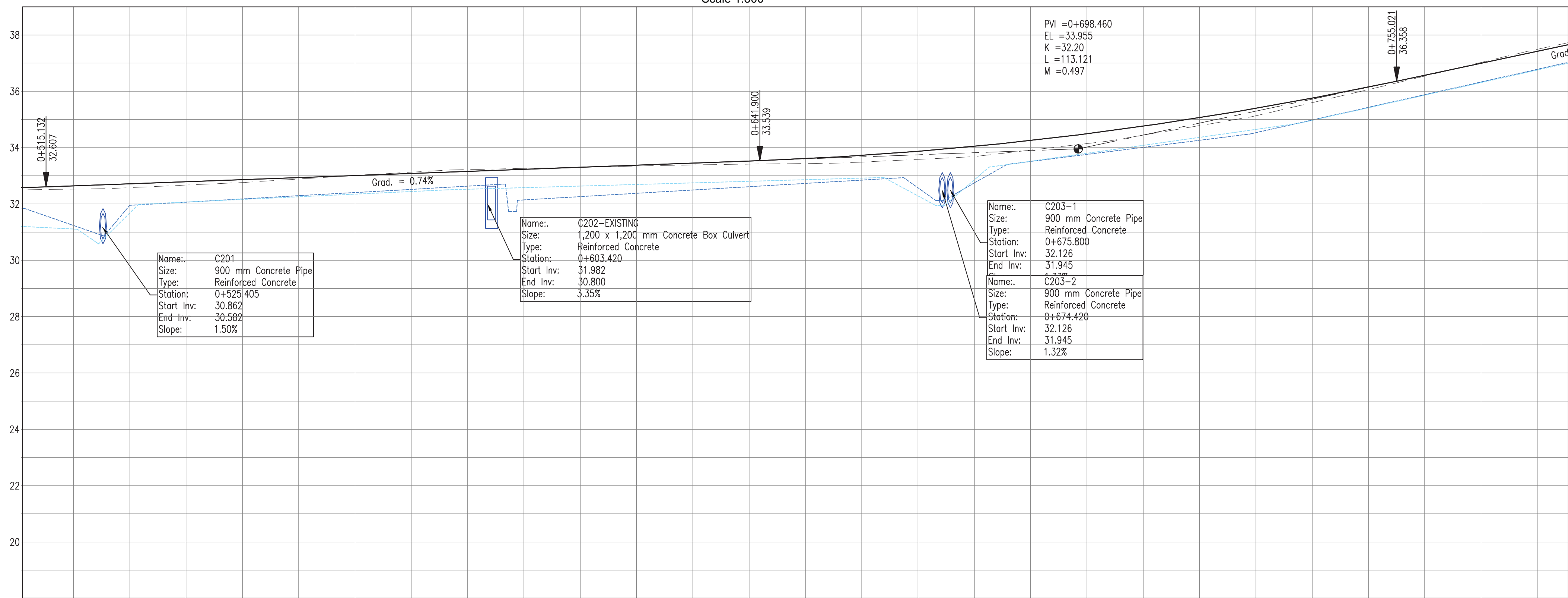
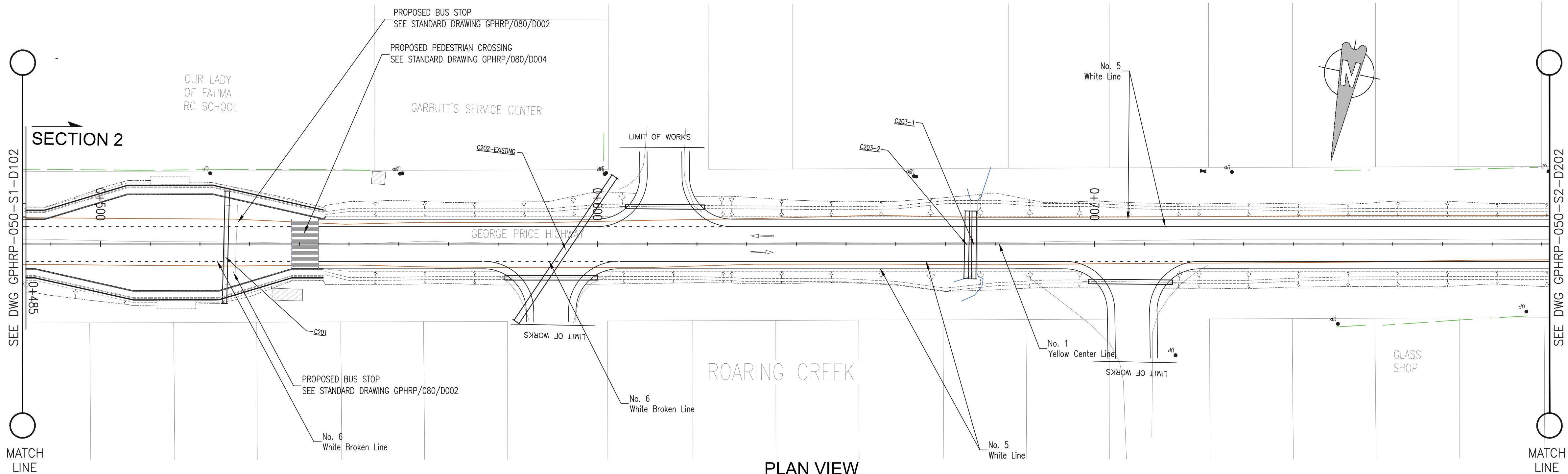


THE GOVERNMENT OF BELIZE
MINISTRY OF WORKS

BELMOPAN,
BELIZE, C. A. .

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PROPOSED	32.64	32.72	32.79	32.86	32.94	33.01	33.08	33.16	33.23	33.30	33.38	33.45	33.53	33.61	33.72	33.87	34.04	34.25	34.49	34.76	35.06	35.39	35.76	36.15	36.57	36.99	37.42
SURVEY	32.53	32.58	32.67	32.76	32.89	33.01	33.13	33.22	33.26	33.30	33.34	33.39	33.41	33.44	33.49	33.58	33.68	33.91	34.14	34.44	34.78	35.13	35.60	36.06	36.54	37.02	37.49
HORIZ. ALIGN.																											
VERT. ALIGN.	L=126.77 G=0.735%																										
STATION	0+520	0+530	0+540	0+550	0+560	0+570	0+580	0+590	0+600	0+610	0+620	0+630	0+640	0+650	0+660	0+670	0+680	0+690	0+700	0+710	0+720	0+730	0+740	0+750	0+760	0+770	0+780
SUPERELEVATION																											
DRAIN R	31.11	31.68	32.07	32.16	32.26	32.35	32.44	32.52	32.58	32.63	32.69	32.75	32.80	32.86	32.92	32.98	32.86	33.52	33.80	34.08	34.36	34.65	34.97	35.42	35.86	36.31	36.75
DRAIN L	31.24	31.95	32.06	32.18	32.29	32.41	32.52	32.63	32.74	32.86	32.98	33.10	33.21	33.33	33.45	33.57	33.75	33.51	33.76	34.01	34.26	34.53	34.98	35.43	35.88	36.33	36.78

PROFILE VIEW
Scale 1:500

- Notes:
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 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	HS	MS	MS	27.10.16	100% FINAL DESIGN
B	KA	MS	MS	07.07.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project
George Price Highway
Rehabilitation Project

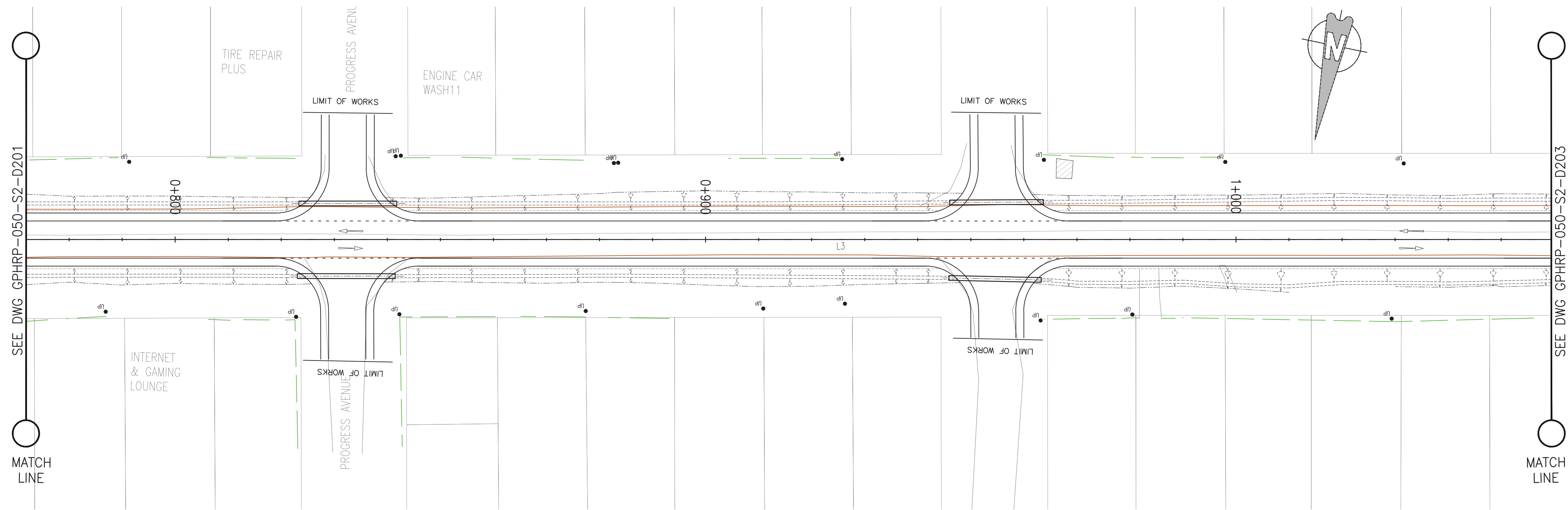
PLAN & PROFILE SEC. 2 - STA. 0+485 TO 0+786

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

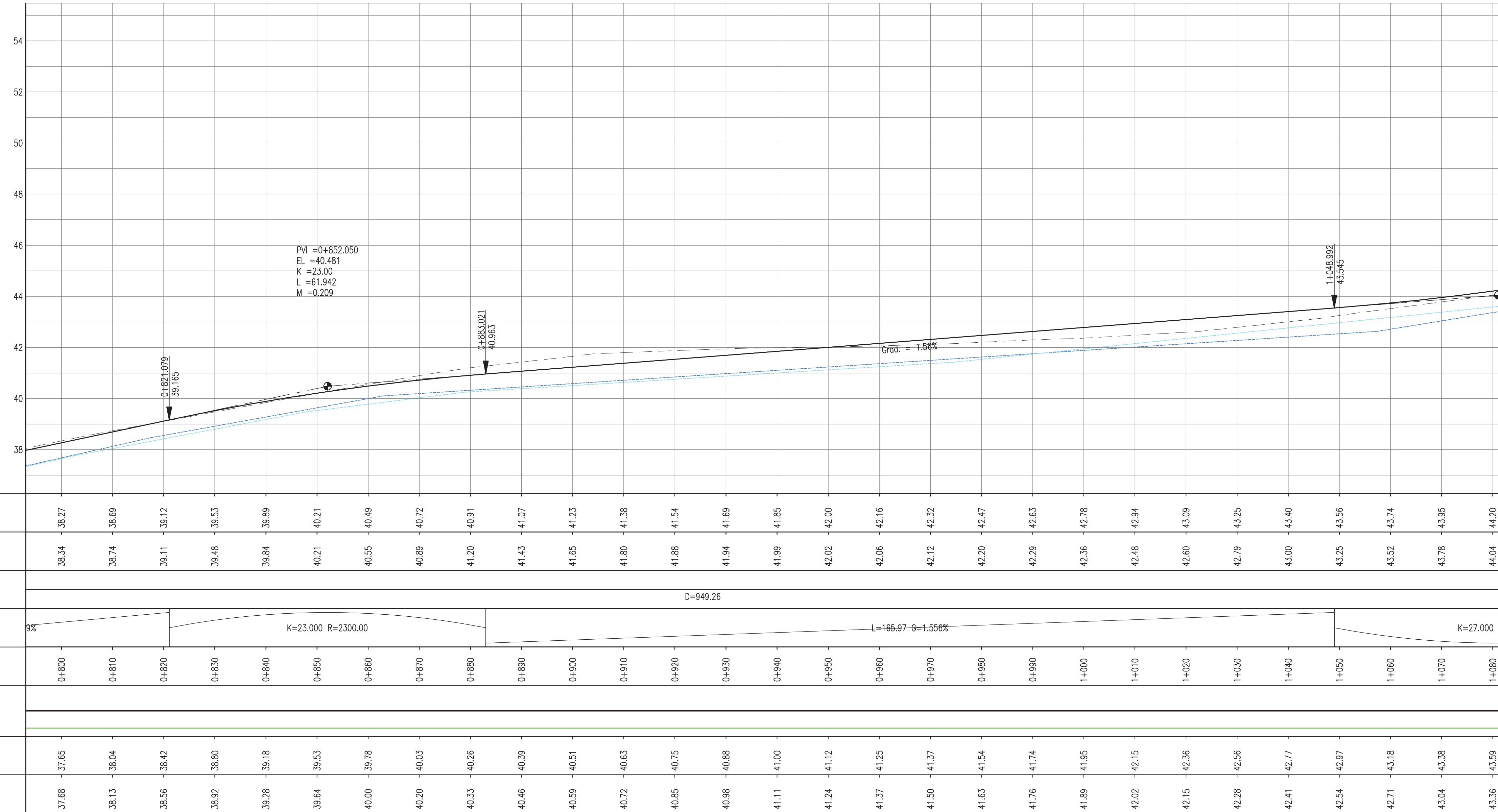
Drawing No. **GPHRP-050-S2-D201** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

- Notes:
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 4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- - - - - Cut/Fill Slopes
- - - - - Proposed Ditch
- Existing Road
- Existing Fence
- - - - - Existing Drain
- ▨ Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project
George Price Highway
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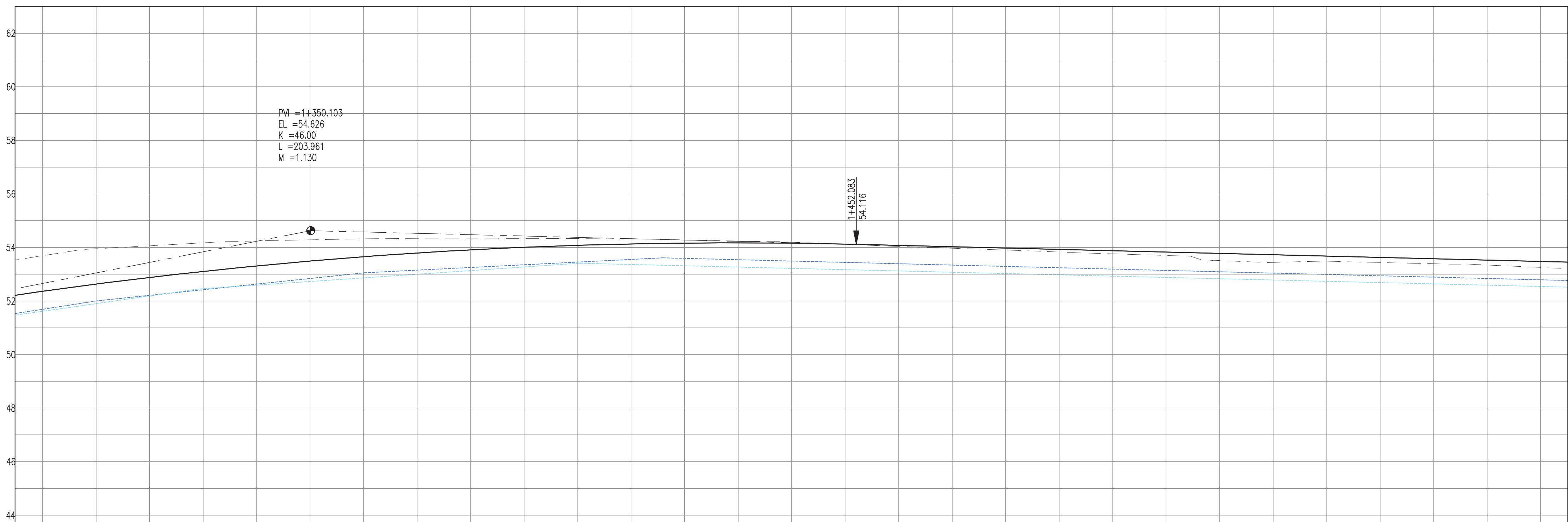
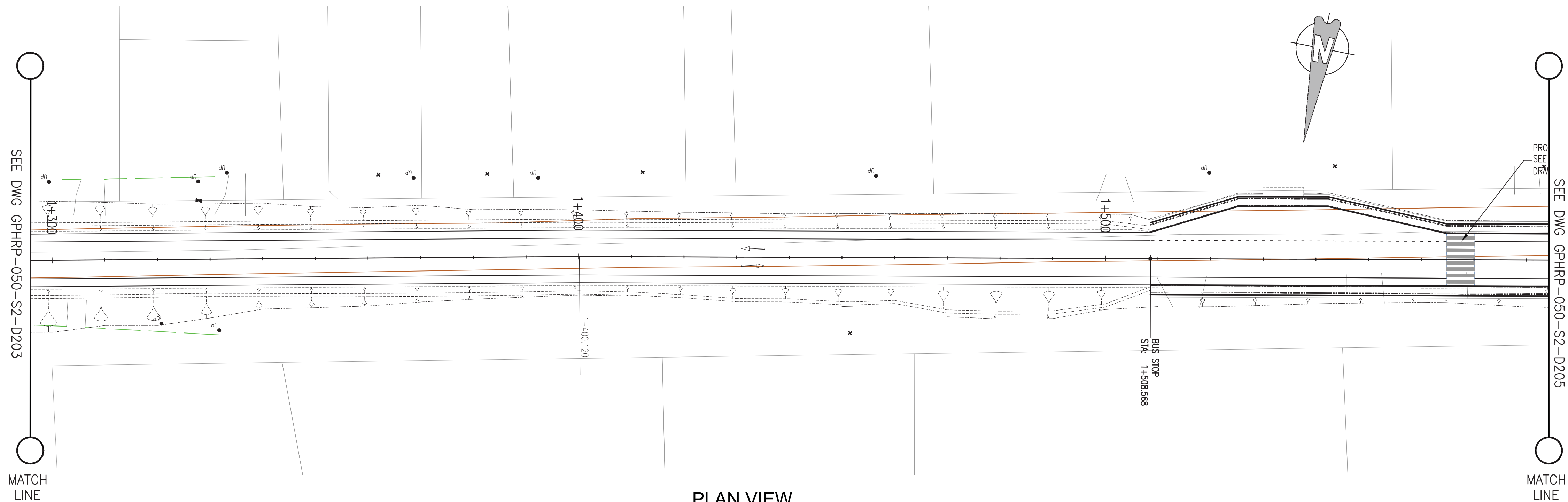
PLAN & PROFILE SEC. 2 – STA. 0+786 TO 1+048

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D202** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PROPOSED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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- Notes:
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 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

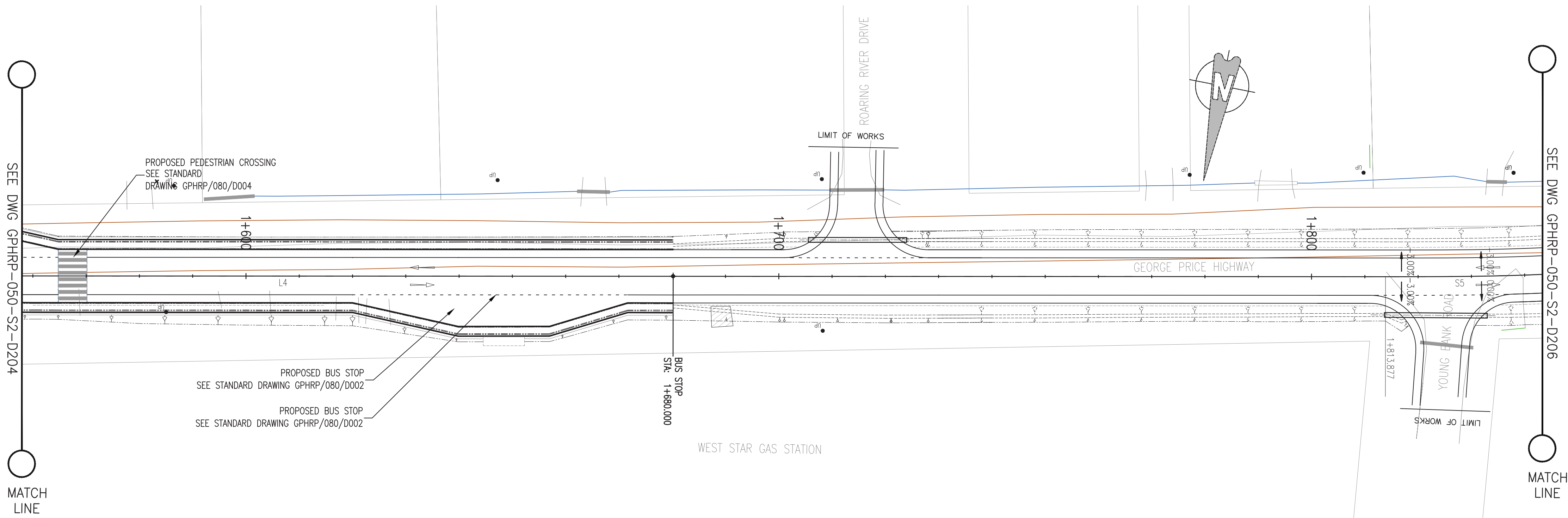
PLAN & PROFILE SEC. 2 - STA. 1+310 TO 1+572

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

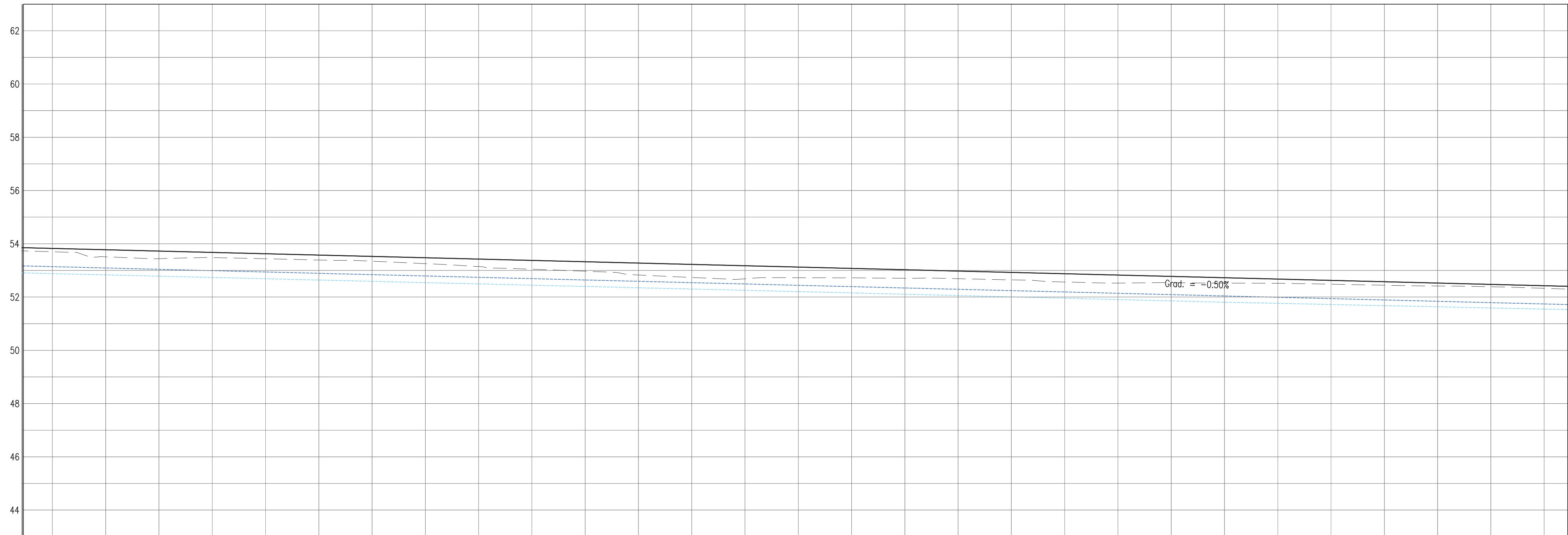
Drawing No. **GPHRP-050-S2-D204** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PLAN VIEW
Scale 1:500



PROPOSED	<div></div>																												
SURVEY	53.70	53.51	53.44	53.46	53.44	53.39	53.35	53.25	53.15	53.04	52.97	52.83	52.74	52.69	52.73	52.72	52.70	52.69	52.65	52.57	52.53	52.54	52.52	52.52	52.48	52.44	52.41	52.39	52.33
HORIZ. ALIGN.	<div>D=413.76</div>																												
VERT. ALIGN.	<div>L=545.43 G=-0.500%</div>																												
STATION	1+510	1+520	1+530	1+540	1+550	1+560	1+570	1+580	1+590	1+600	1+610	1+620	1+630	1+640	1+650	1+660	1+670	1+680	1+690	1+700	1+710	1+720	1+730	1+740	1+750	1+760	1+770	1+780	1+790
SUPERELEVATION	<div></div>																												
DRAIN R	52.88	52.83	52.78	52.74	52.69	52.64	52.59	52.54	52.49	52.45	52.40	52.35	52.30	52.25	52.20	52.16	52.11	52.06	52.01	51.96	51.91	51.86	51.81	51.76	51.72	51.68	51.63	51.59	51.55
DRAIN L	53.14	53.09	53.04	52.99	52.94	52.89	52.84	52.79	52.74	52.69	52.64	52.59	52.54	52.49	52.44	52.39	52.34	52.29	52.24	52.19	52.14	52.09	52.04	51.99	51.94	51.89	51.84	51.79	51.74

PROFILE VIEW
Scale 1:500

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - - - - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - ▨ Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	RM	MS	14.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

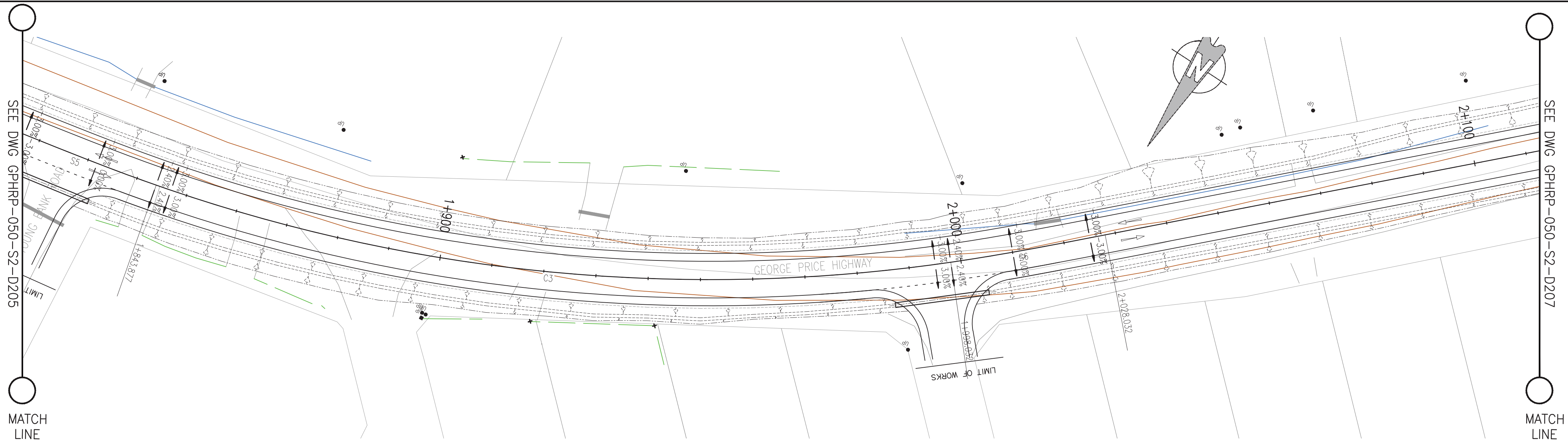
PLAN & PROFILE SEC. 2 – STA. 1+572 TO 1+824

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

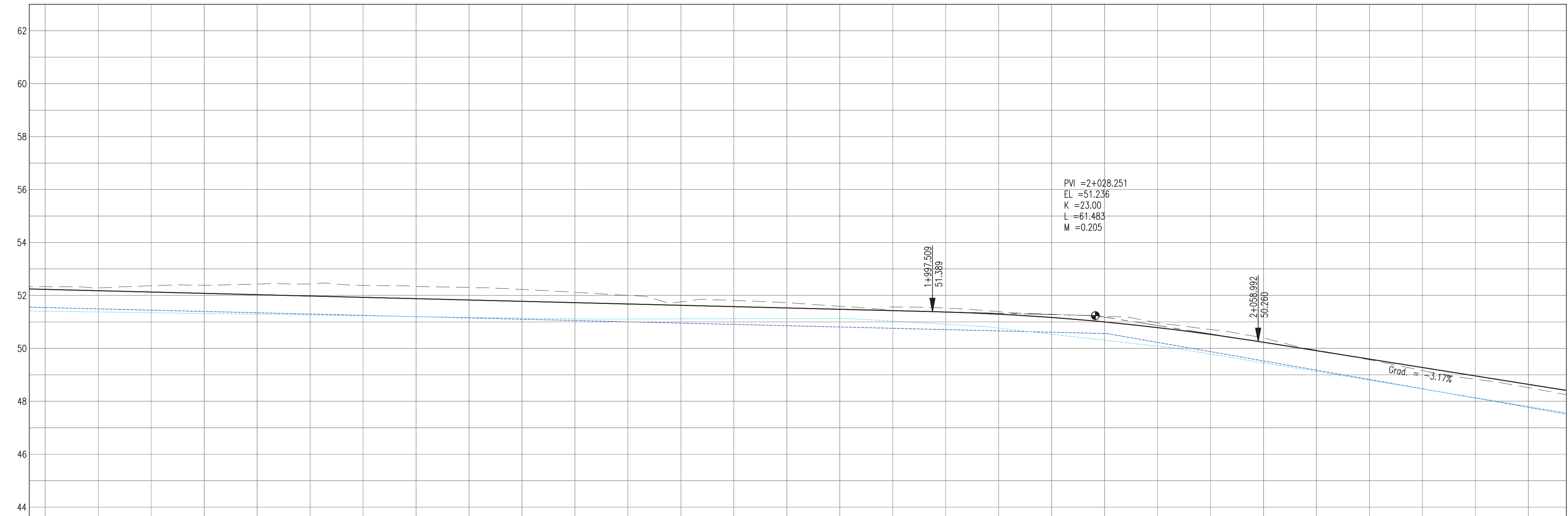
Drawing No. **GPHRP-050-S2-D205** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PLAN VIEW
Scale 1:500



PROPOSED	-52.23		-52.18		-52.13		-52.08		-52.03		-51.98		-51.93		-51.88		-51.83		-51.78		-51.73		-51.68		-51.63		-51.58		-51.53		-51.48		-51.43		-51.38		-51.29		-51.17		-51.00		-50.78		-50.53		-50.23		-49.91		-49.59		-49.28		-48.96		-48.64																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SURVEY	52.33		52.28		52.36		52.38		52.43		52.43		52.38		52.34		52.30		52.23		52.12		52.00		51.76		51.81		51.72		51.59		51.56		51.52		51.39		51.29		51.21		50.96		50.71		50.39		49.93		49.57		49.16		48.83		48.51																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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PROFILE VIEW
Scale 1:500

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Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
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- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

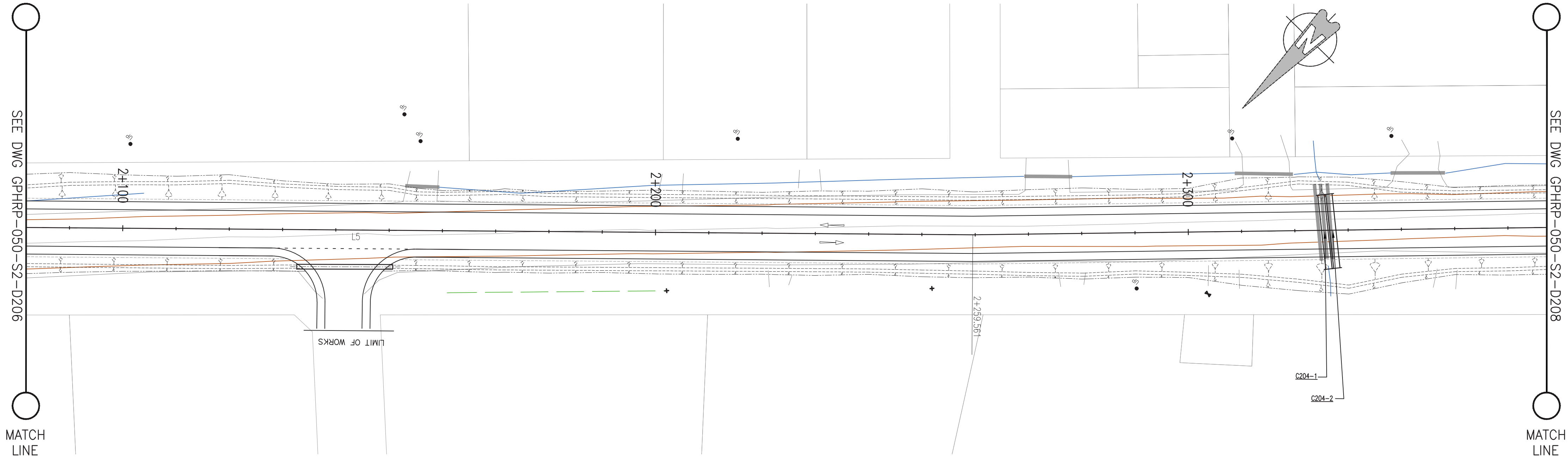
PLAN & PROFILE SEC. 2 – STA. 1+824 TO 2+096

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

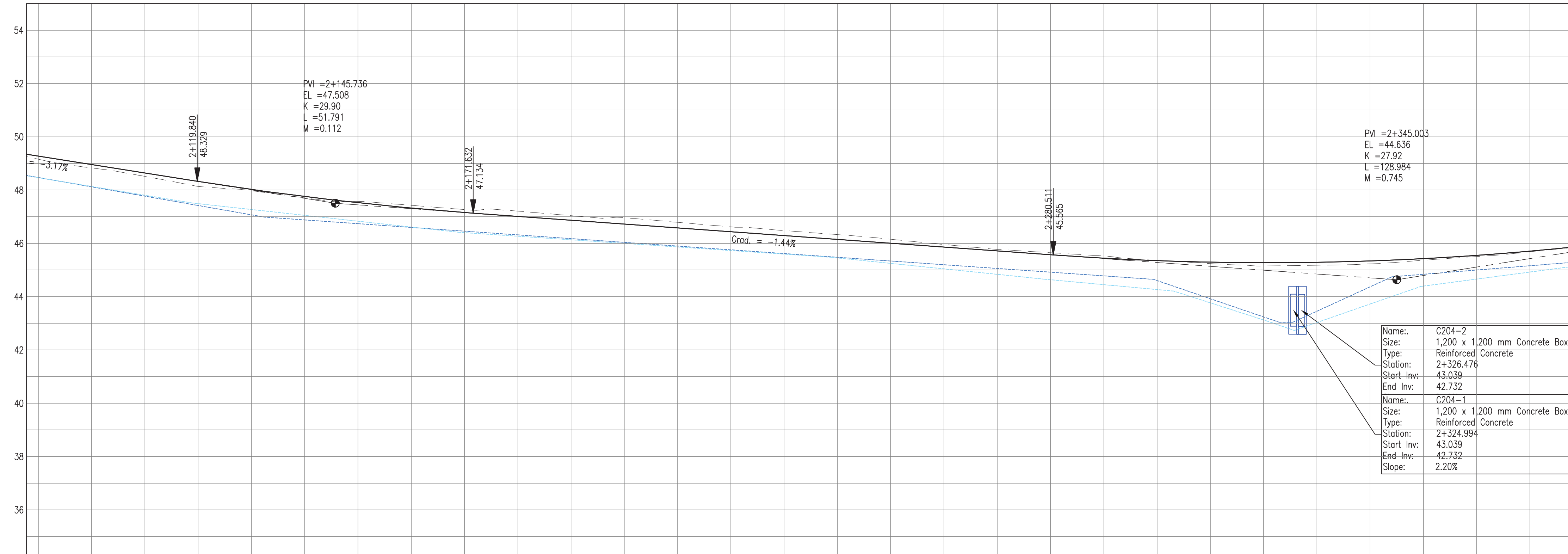
Drawing No. **GPHRP-050-S2-D206** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PLAN VIEW
Scale 1:500



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PROFILE VIEW
Scale 1:500

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

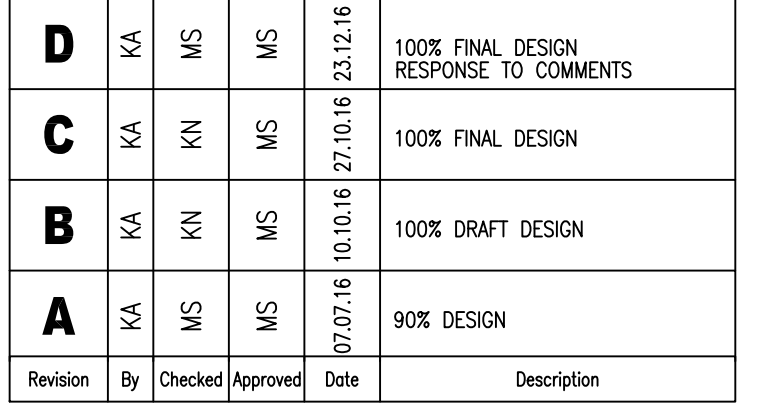
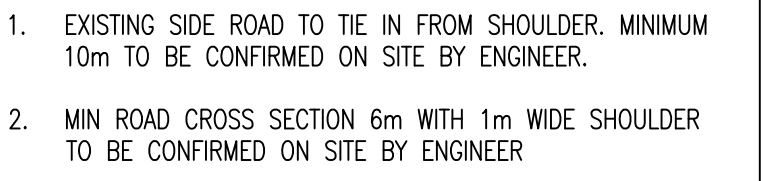
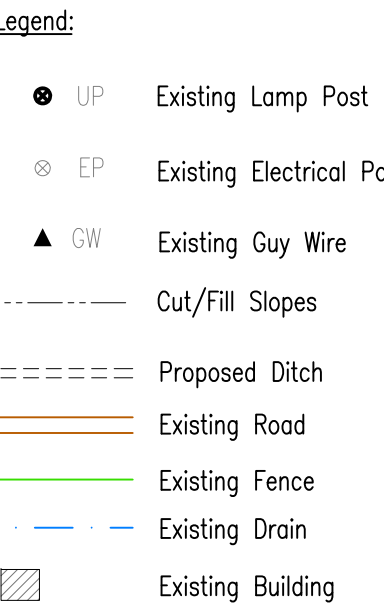
PLAN & PROFILE SEC. 2 – STA. 2+096 TO 2+358

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D207** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



Belmopan,
Belize, C.A.

4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8665
www.ch2m.com

Project

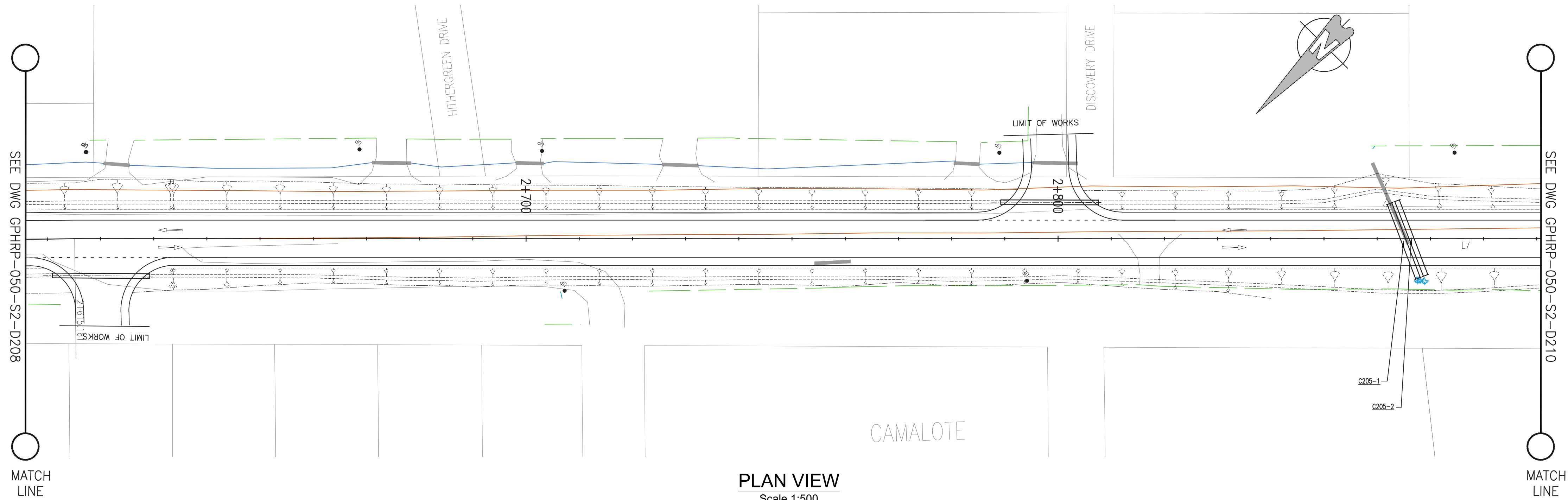
George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 2 - STA. 2+358 TO 2+62

Plot Scale: 1 :

PROFILE VIEW

Scale 1:500



Notes:

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- ⊗ EP Existing Electrical Post
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100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

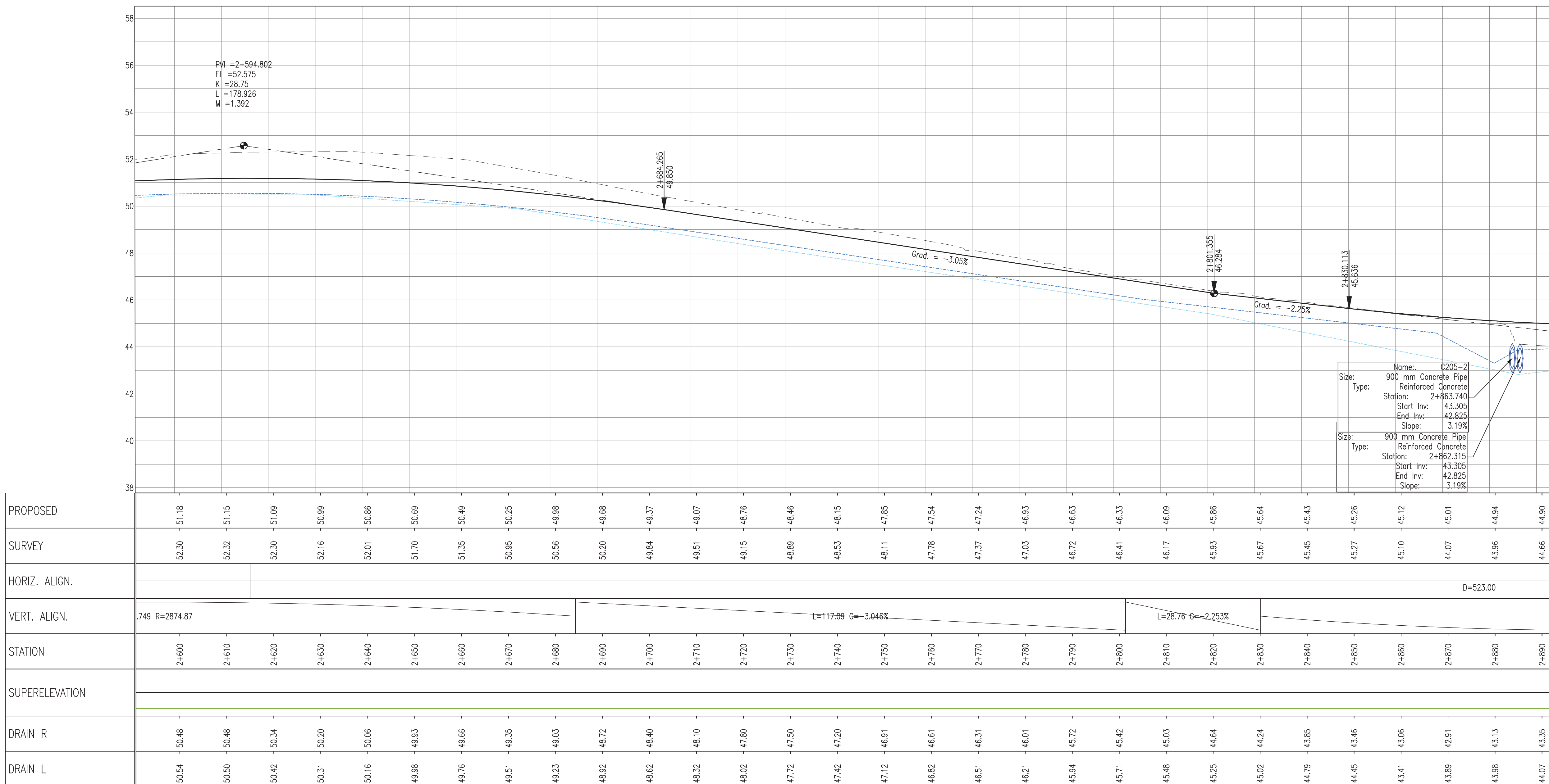
PLAN & PROFILE SEC. 2 – STA. 2+620 TO 2+882

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

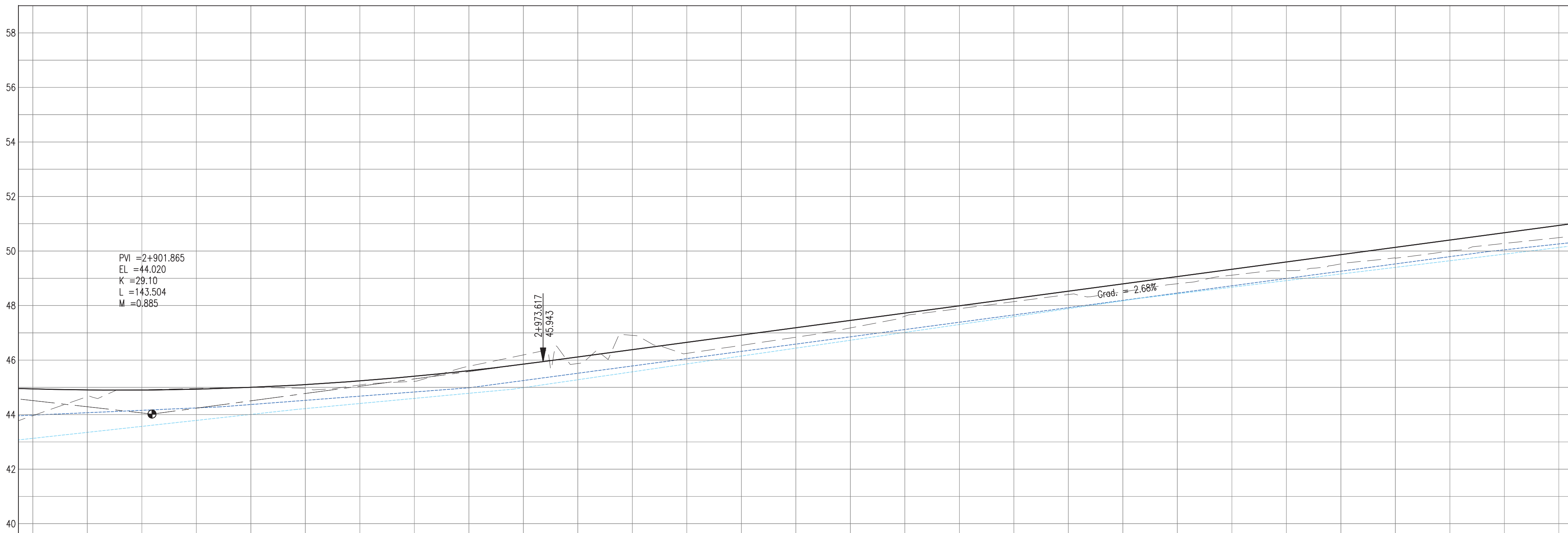
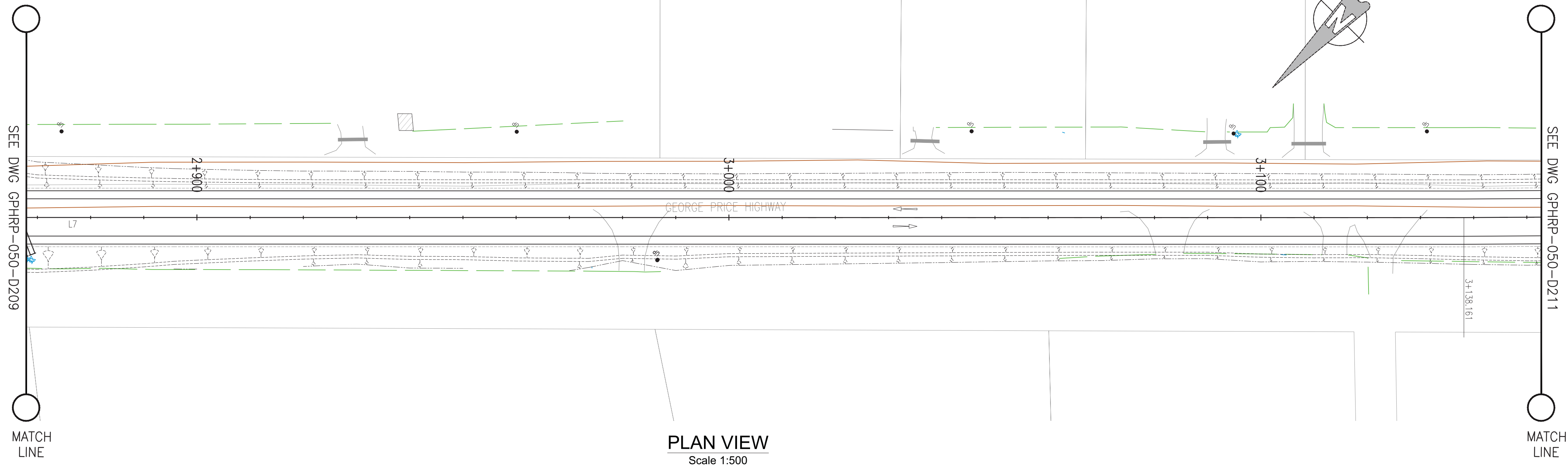
Drawing No. GPHRP-050-S2-D209 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PROFILE VIEW
Scale 1:500



PROPOSED	44.94	44.90	44.90	44.93	45.00	45.10	45.24	45.41	45.61	45.85	46.11	46.38	46.65	46.92	47.19	47.45	47.72	47.99	48.26	48.53	48.79	49.06	49.33	49.60	49.86	50.13	50.40	50.67	50.94
SURVEY	43.96	44.66	44.91	44.96	45.00	44.96	45.09	45.22	45.77	46.19	45.87	46.91	46.25	46.54	46.84	47.18	47.61	47.89	48.14	48.40	48.50	48.80	49.11	49.28	49.53	49.74	50.00	50.28	50.49
HORIZ. ALIGN.	5.00																												
VERT. ALIGN.	K=29.097 R=2909.68										L=214.65 G=2.679%																		
STATION	2+880	2+890	2+900	2+910	2+920	2+930	2+940	2+950	2+960	2+970	2+980	2+990	3+000	3+010	3+020	3+030	3+040	3+050	3+060	3+070	3+080	3+090	3+100	3+110	3+120	3+130	3+140	3+150	3+160
SUPERELEVATION																													
DRAIN R	43.13	43.35	43.57	43.79	44.01	44.22	44.41	44.59	44.78	44.99	45.28	45.57	45.86	46.15	46.44	46.73	47.02	47.31	47.59	47.88	48.17	48.43	48.67	48.92	49.16	49.40	49.64	49.89	50.13
DRAIN L	43.98	44.07	44.16	44.25	44.37	44.52	44.68	44.83	44.98	45.25	45.52	45.78	46.05	46.32	46.59	46.85	47.12	47.39	47.66	47.92	48.19	48.46	48.73	48.99	49.26	49.53	49.79	50.04	50.26

- Notes:
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- Legend:
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 - EP Existing Electrical Post
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- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
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100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project
George Price Highway
Rehabilitation Project

Drawing Title

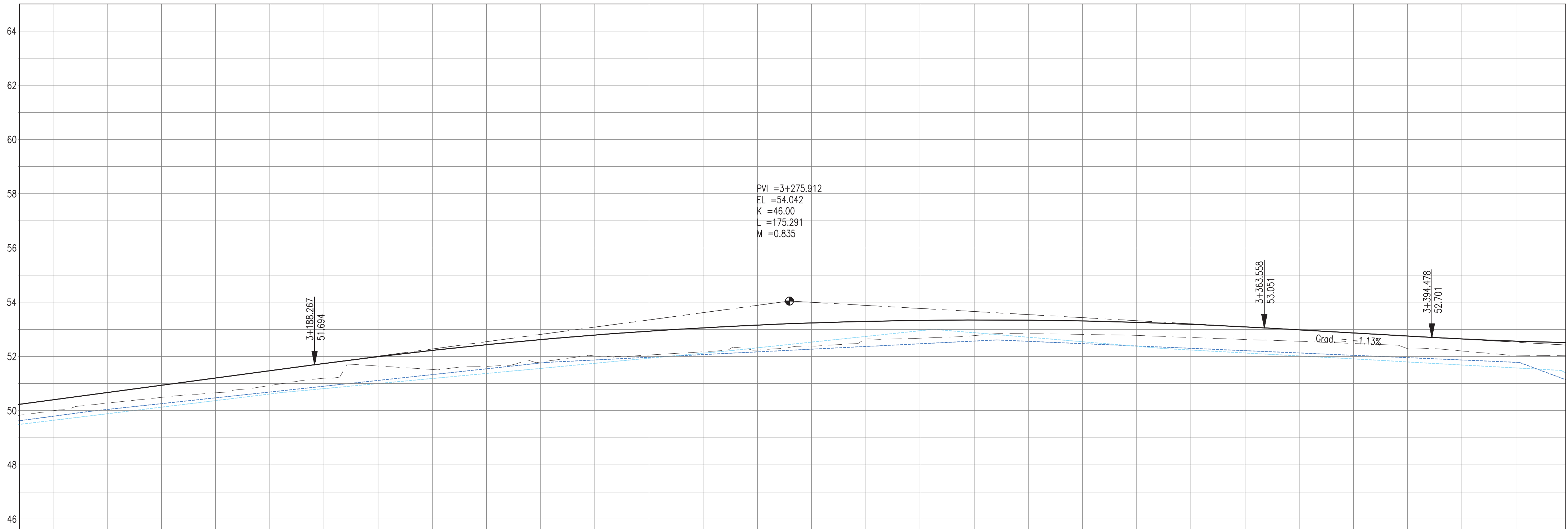
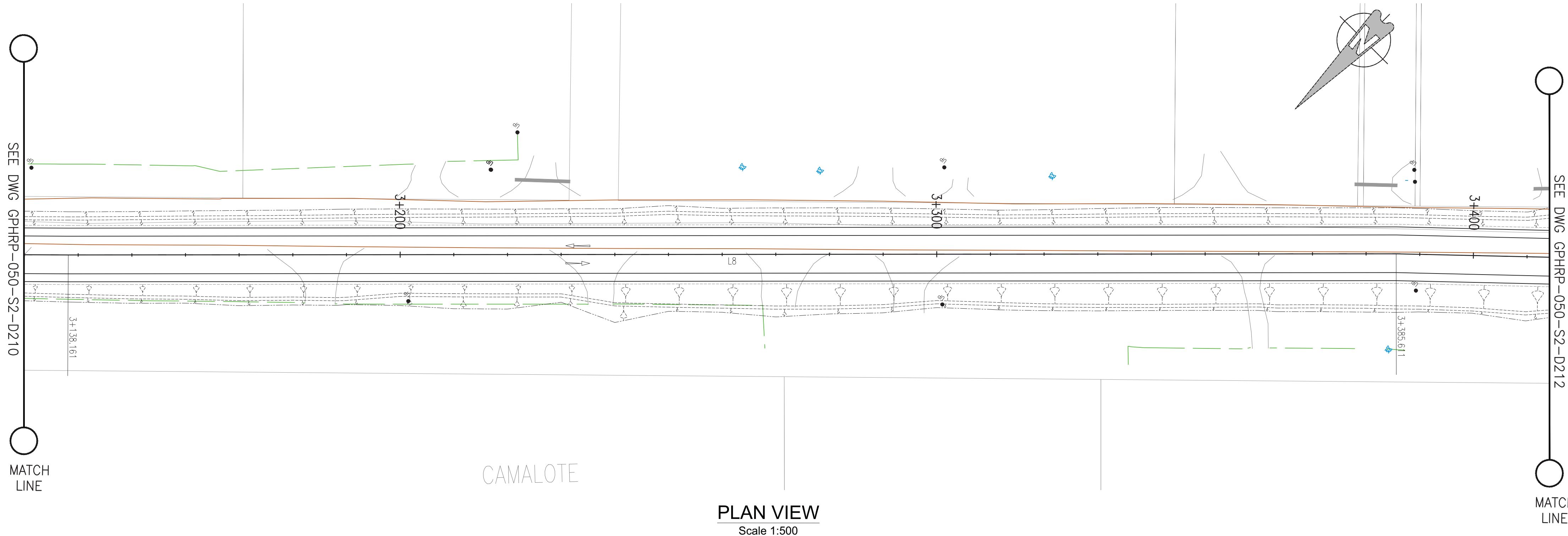
PLAN & PROFILE SEC. 2 – STA. 2+882 TO 3+144

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D210** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PROPOSED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
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- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 – STA. 3+144 TO 3+406

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

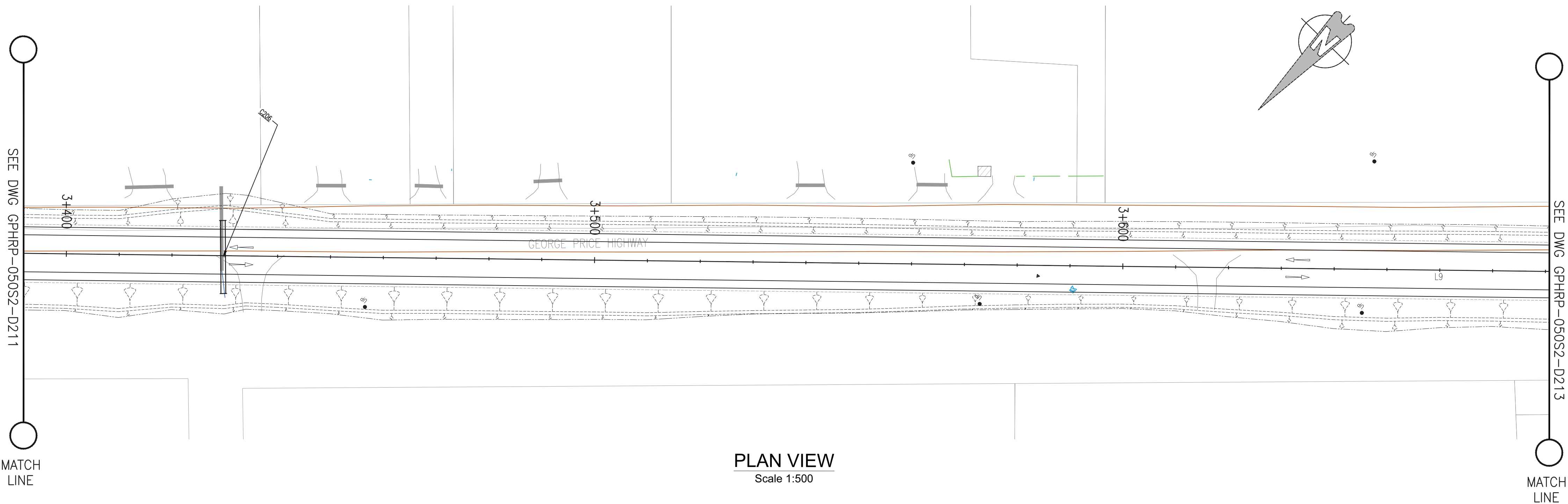
Drawing No. **GPHRP-050-S2-D211** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

SEE DWG GPHRP-050S2-D211

MATCH LINE



PLAN VIEW
Scale 1:500

SEE DWG GPHRP-050S2-D213

MATCH LINE

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 – STA. 3+406 TO 3+668

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

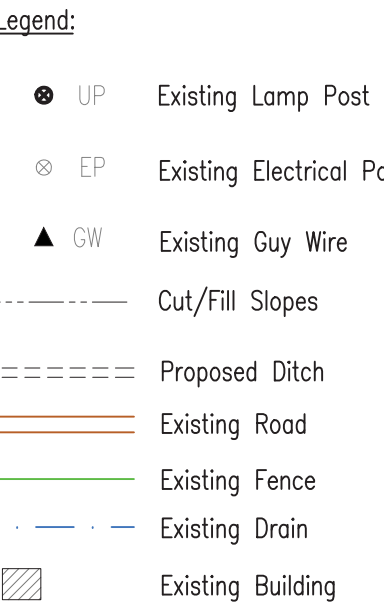
Drawing No. **GPHRP-050-S2-D212** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

PROPOSED	-52.75	-52.64	-52.56	-52.51	-52.48	-52.48	-52.51	-52.57	-52.65	-52.73	-52.81	-52.89	-52.97	-53.04	-53.11	-53.16	-53.20	-53.23	-53.25	-53.26	-53.25	-53.23	-53.20	-53.16	-53.11	-53.04	-52.96	-52.87	-52.77	
SURVEY	52.29	52.20	52.04	52.02	52.00	51.99	52.02	52.07	52.13	52.19	51.93	52.19	52.20	52.06	52.50	52.53	52.60	52.60	52.81	52.87	53.29	53.10	52.76	52.88	52.80	52.24	52.37	52.21	51.53	51.44
HORIZ. ALIGN.	D=548.43																													
VERT. ALIGN.																														
STATION	3+390	3+400	3+410	3+420	3+430	3+440	3+450	3+460	3+470	3+480	3+490	3+500	3+510	3+520	3+530	3+540	3+550	3+560	3+570	3+580	3+590	3+600	3+610	3+620	3+630	3+640	3+650	3+660	3+670	
SUPERELEVATION																														
DRAIN R	-51.80	-51.69	-51.58	-51.31	-50.67	-51.38	-51.47	-51.55	-51.63	-51.71	-51.80	-51.88	-51.96	-52.05	-52.13	-52.21	-52.30	-52.39	-52.48	-52.55	-52.26	-52.25	-52.24	-52.23	-52.21	-52.14	-52.05	-51.96	-51.87	-51.78
DRAIN L	51.96	51.87	51.78	51.08	50.60	51.20	51.77	51.83	51.90	51.96	52.03	52.09	52.16	52.22	52.29	52.35	52.42	52.48	52.55	52.59	52.55	52.51	52.47	52.43	52.38	52.31	52.21	52.10	52.00	


PROFILE VIEW
Scale 1:500



1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER



Employer: GOVERNMENT OF BELIZE

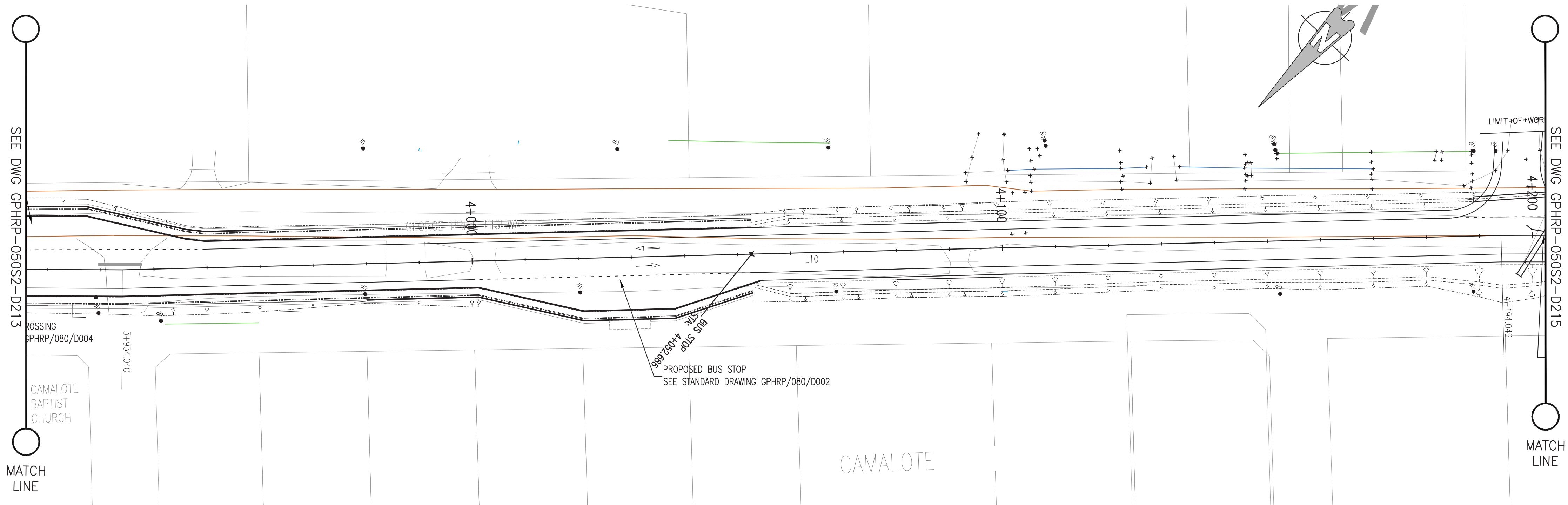
 **Ministry of Works**
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

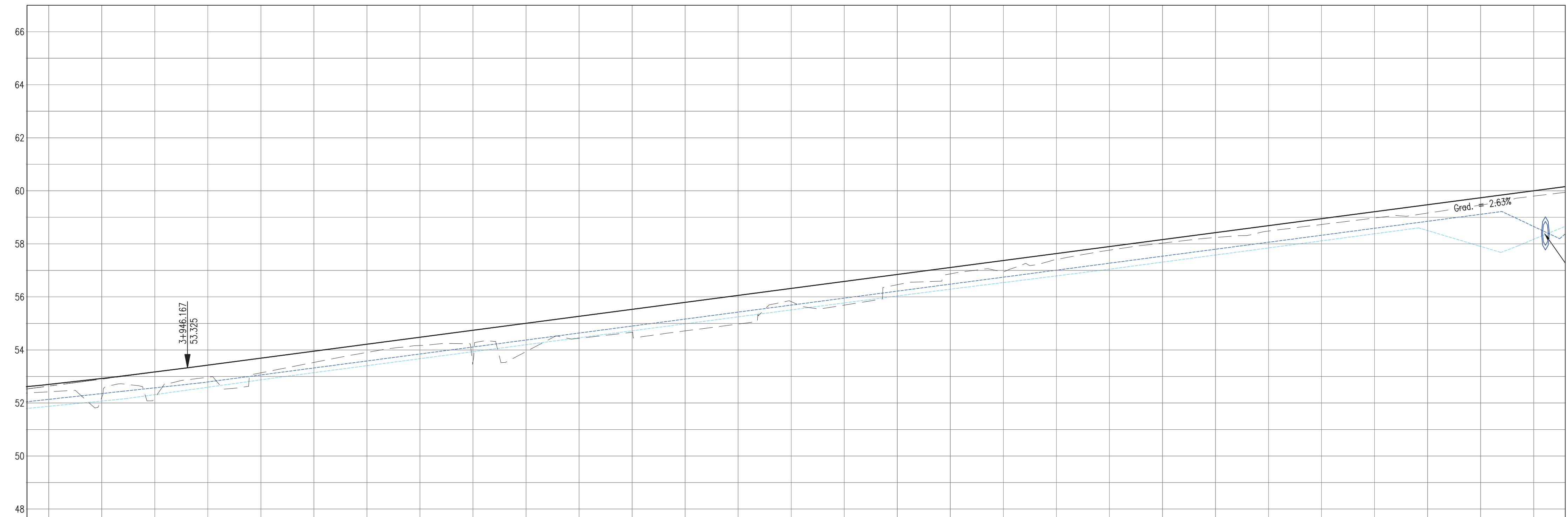
<h1 style="margin: 0;">George Price Highway Rehabilitation Project</h1>	
Drawing Title	
<p style="font-size: 1.2em; margin: 0;">PLAN & PROFILE SEC. 2 – STA. 3+668 TO 3+930</p>	
Drawn by KA	Date: 07 JUL, 2016
Checked by MS	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016
<div style="display: flex; justify-content: space-between;"> <div style="width: 70%;"> <p style="margin: 0;">Drawing No.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <h2 style="margin: 0;">GPHRP-050-S2-D213</h2> </div> <p style="margin: 0;">Drawing Scale: As noted at A1</p> <p style="margin: 0;">Plot Scale: 1 : 1</p> </div> <div style="width: 25%; text-align: center;"> <p style="margin: 0;">Revision</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <h2 style="margin: 0;">D</h2> </div> </div> </div>	

PROFILE VIEW

Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\ [100% Design] GPHRP-050-S1-S2-D101-D218.dwg
 Xreference file path : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\
 User and Plot Date : WS007 : 13:1:2017 - 10:1 pm



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

PROPOSED																																																										
SURVEY	52.42	- 52.70	52.21	- 52.92	52.19	- 53.17	52.97	- 53.43	53.14	- 53.69	53.53	- 53.95	53.91	- 54.21	54.17	- 54.48	53.55	- 54.74	53.94	- 55.00	54.44	- 55.27	54.66	- 55.53	54.72	- 55.79	54.98	- 56.06	55.82	- 56.32	55.69	- 56.58	56.46	- 56.85	56.87	- 57.11	56.94	- 57.37	57.41	- 57.63	57.76	- 57.90	58.03	- 58.16	58.24	- 58.42	58.48	- 58.69	58.73	- 58.95	58.97	- 59.21	59.16	- 59.48	59.46	- 59.74	59.80	- 60.00
HORIZ. ALIGN.	D=260.01																																																									
VERT. ALIGN.	L=488.73 G=2.630%																																																									
STATION	3+920	3+930	3+940	3+950	3+960	3+970	3+980	3+990	4+000	4+010	4+020	4+030	4+040	4+050	4+060	4+070	4+080	4+090	4+100	4+110	4+120	4+130	4+140	4+150	4+160	4+170	4+180	4+190	4+200																													
SUPERELEVATION																																																										
DRAIN R	-51.87	-52.07	-52.32	-52.59	-52.87	-53.14	-53.41	-53.67	-53.93	-54.20	-54.46	-54.72	-54.99	-55.25	-55.51	-55.77	-56.04	-56.29	-56.54	-56.79	-57.05	-57.31	-57.58	-57.85	-58.11	-58.38	-58.50	-57.90	-58.17																													
DRAIN L	52.14	52.35	52.57	52.79	53.06	53.32	53.58	53.85	54.11	54.37	54.64	54.90	55.16	55.43	55.69	55.95	56.22	56.48	56.74	57.01	57.27	57.53	57.80	58.06	58.32	58.59	58.85	59.11	58.66																													

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - - - - Proposed Ditch
 - Existing Road
 - Existing Fence
 - - - Existing Drain
 - ▨ Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

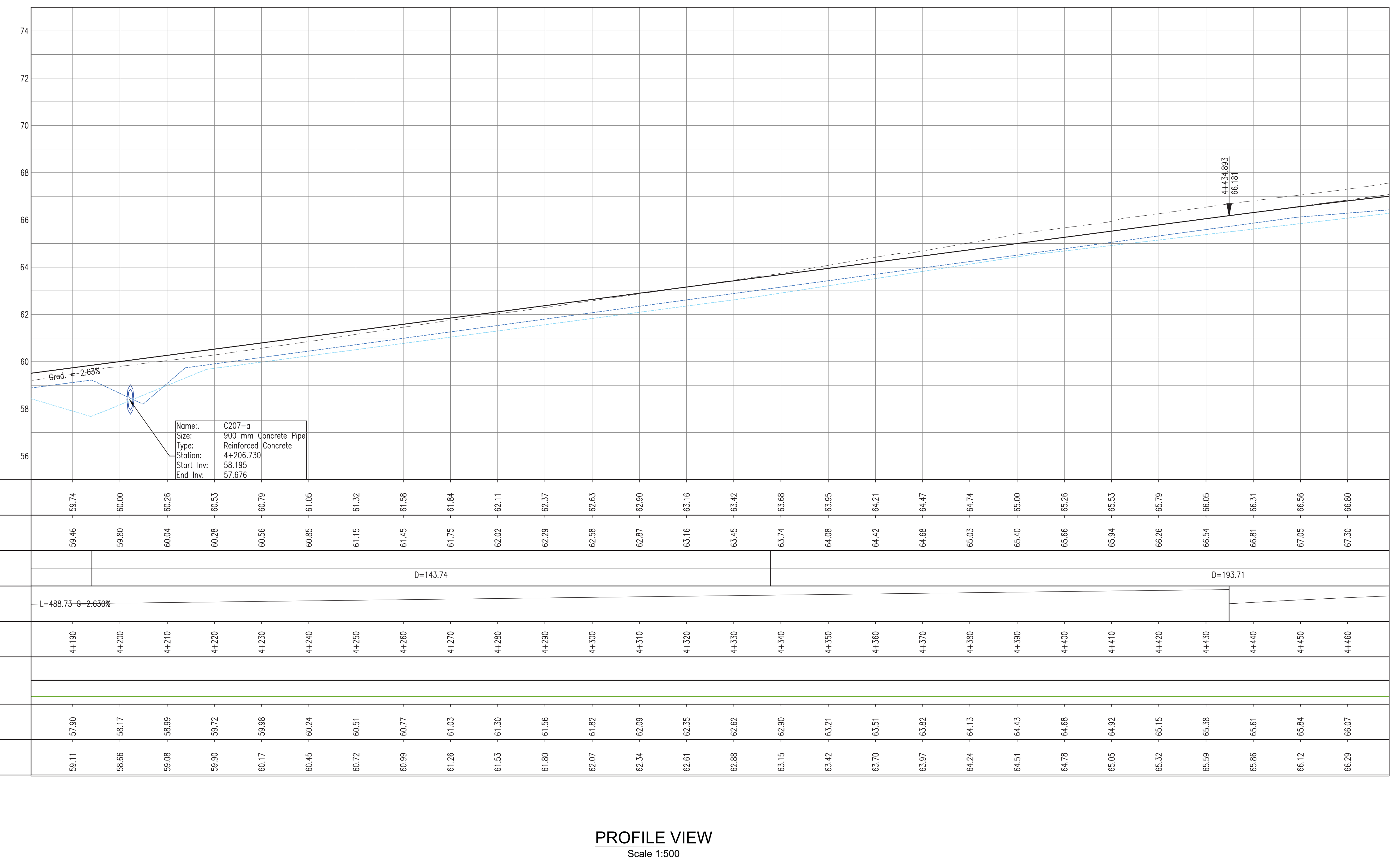
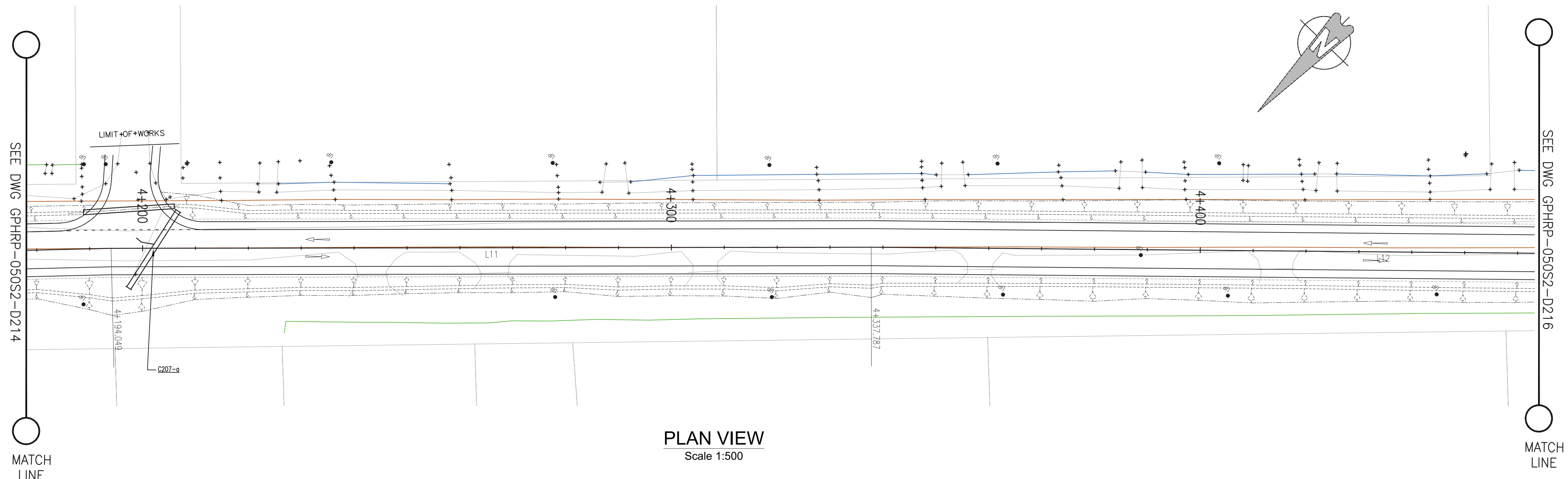
PLAN & PROFILE SEC. 2 – STA. 3+930 TO 4+192

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

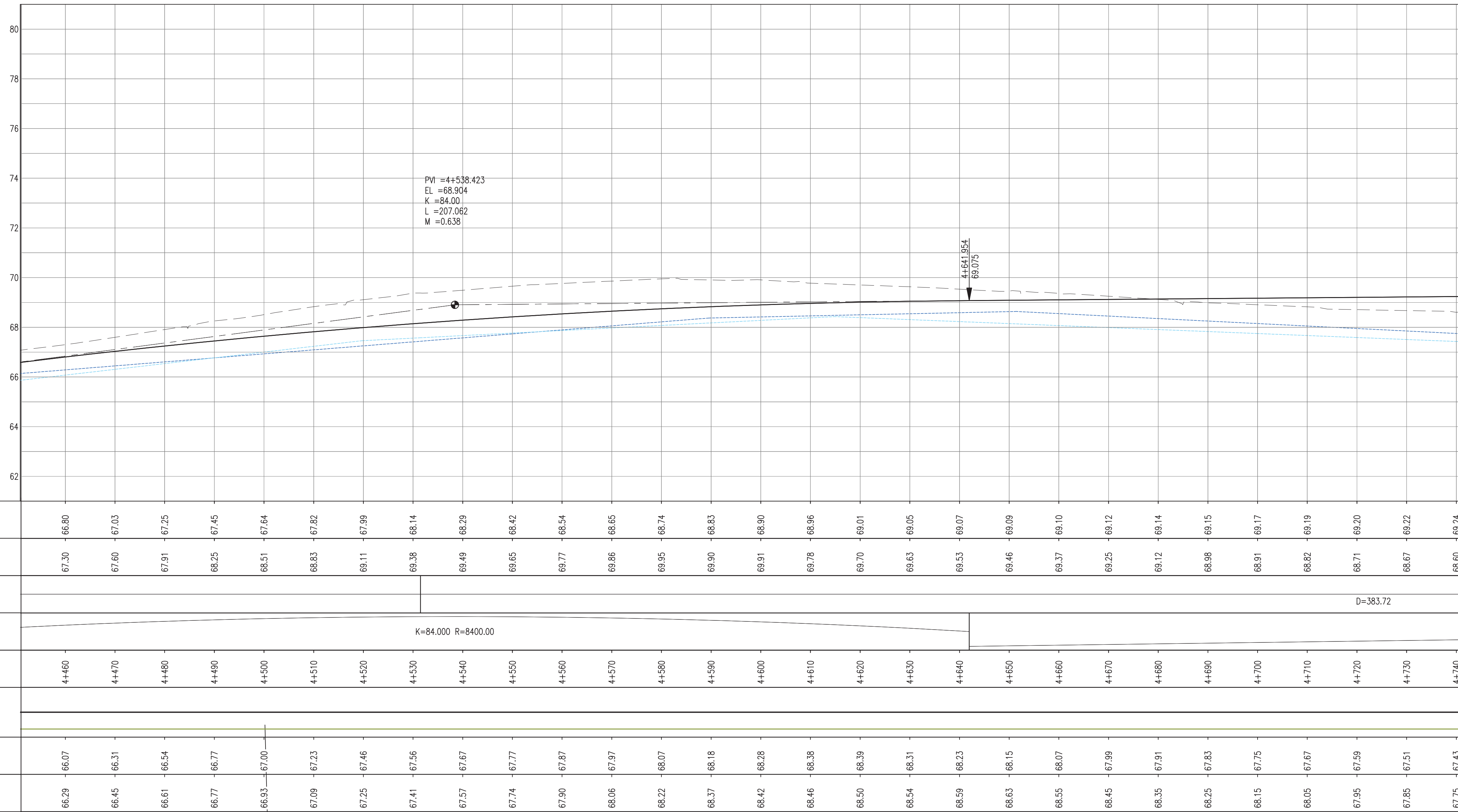
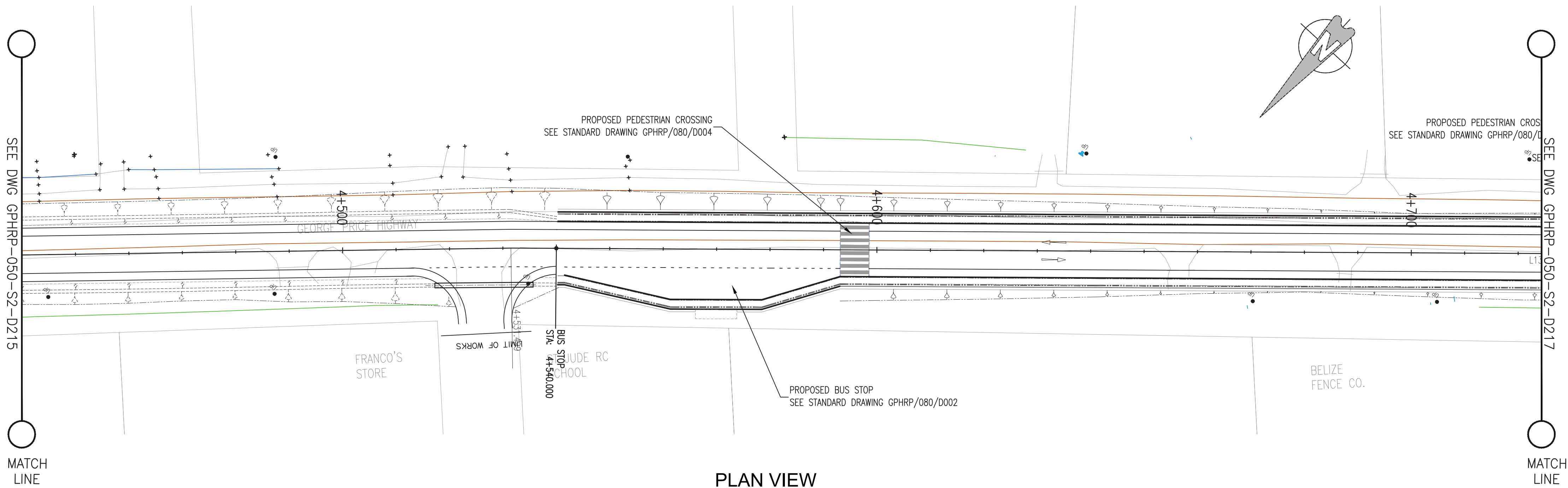
Drawing No. **GPHRP-050-S2-D214** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



Drawing file path & name: H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S2-D215-D218.dwg
Reference file path: H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S2-D215-D218.dwg
User and Print Date: 15/07/2016 1:16:18 pm



- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

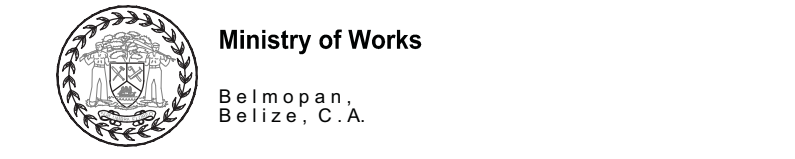
- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

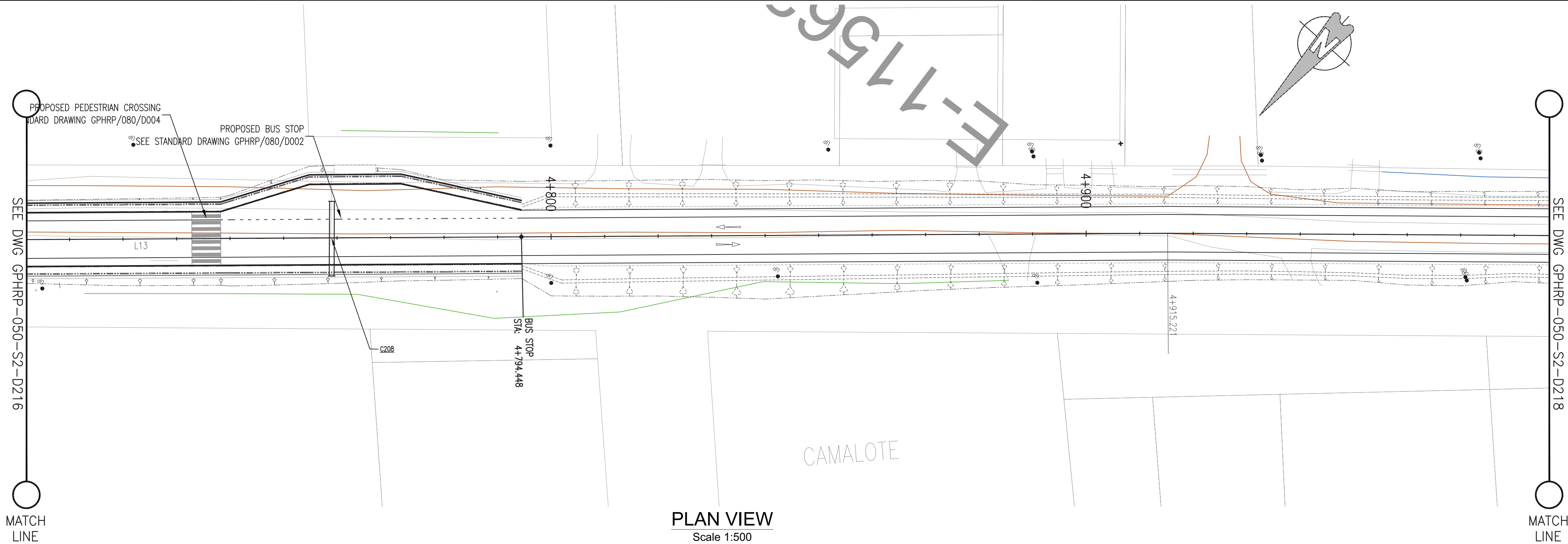
Project
George Price Highway Rehabilitation Project

Drawing Title
PLAN & PROFILE SEC. 2 - STA. 4+454 TO 4+716

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D216** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1

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Reference file path: H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S2-D216-D218.dwg
User and Plot Date: 15/07/17 15:16:16 pm



Notes:

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3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- - - - - Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

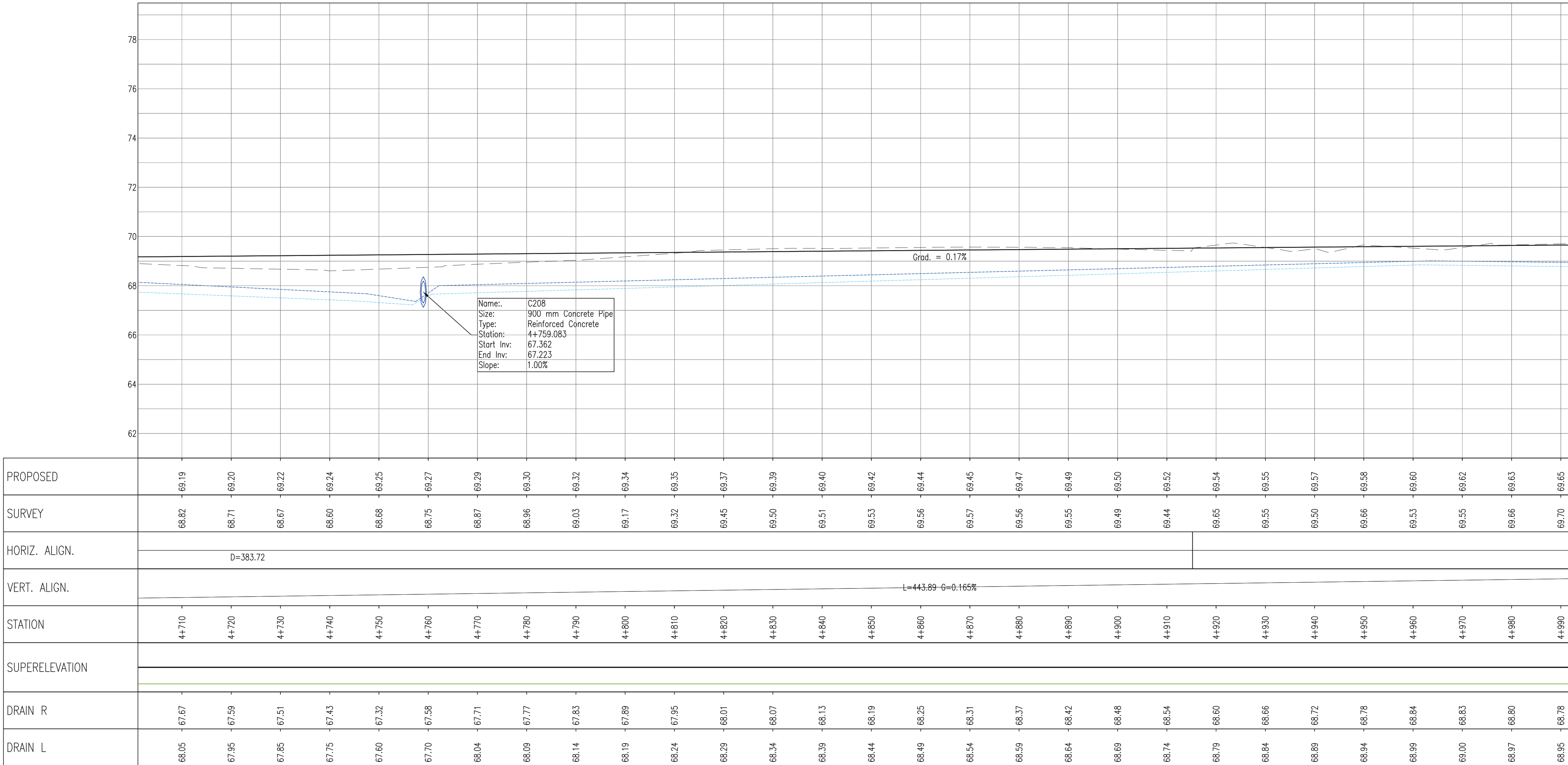
PLAN & PROFILE SEC. 2 - STA. 4+716 TO 4+978

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

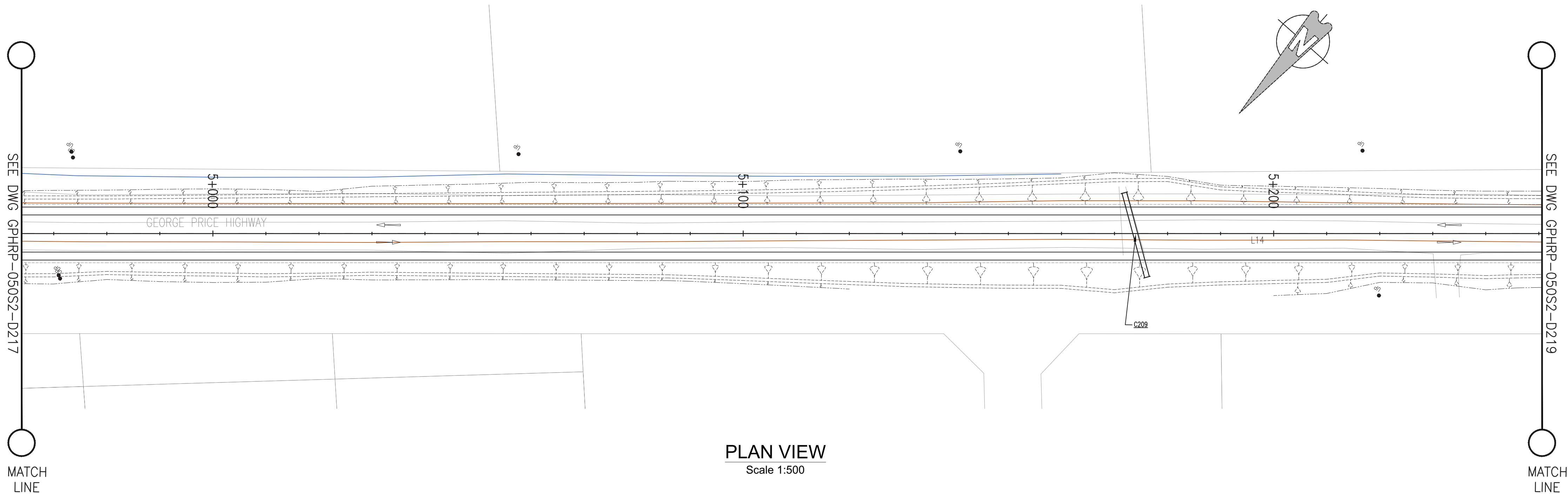
Drawing No. **GPHRP-050-S2-D217** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



SEE DWG GPHRP-050S2-D217
MATCH LINE



PLAN VIEW
Scale 1:500

SEE DWG GPHRP-050S2-D219
MATCH LINE

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
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4. All elevations in meters unless otherwise noted.

Legend:

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- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
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- Existing Fence
- Existing Drain
- Existing Building

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100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MS	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 2 - STA. 4+978 TO 5+240

Drawn by KA Date: 07 JUL, 2016
Checked by MS Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D218** Revision **D**

Drawing Scale: As noted at A1

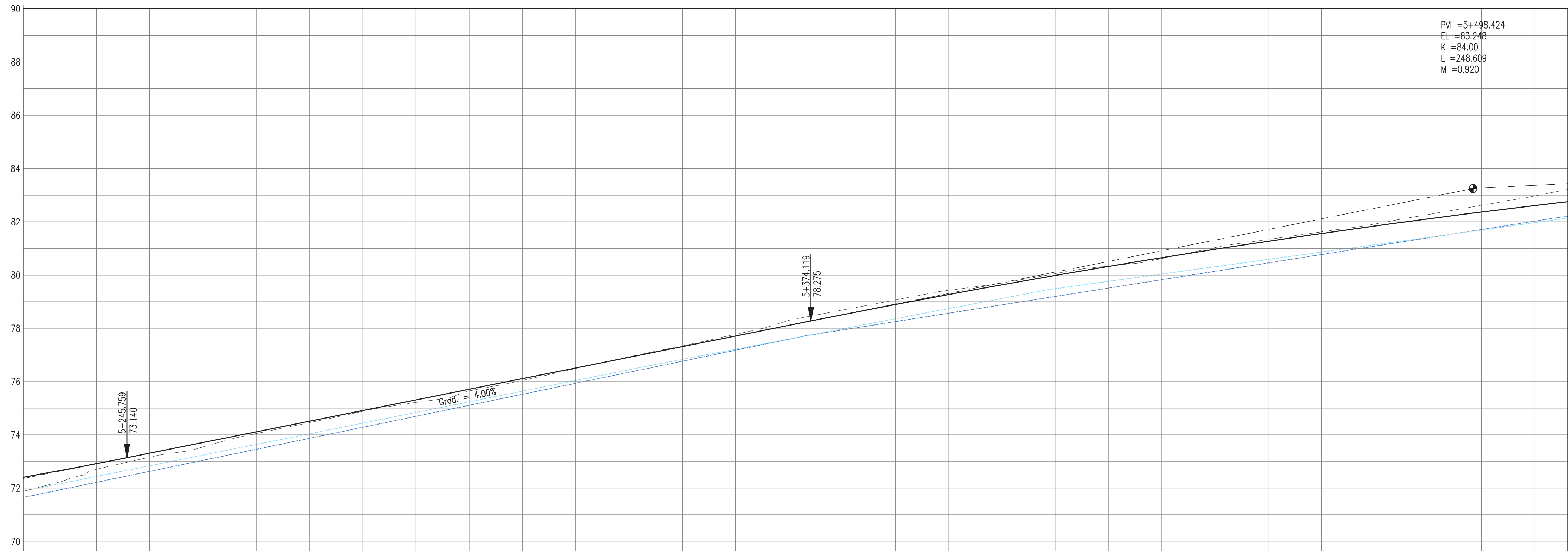
Plot Scale: 1 : 1

PROPOSED																														
SURVEY																														
HORIZ. ALIGN.																														
VERT. ALIGN.																														
STATION																														
SUPERELEVATION																														
DRAIN R																														
DRAIN L																														

PROFILE VIEW
Scale 1:500

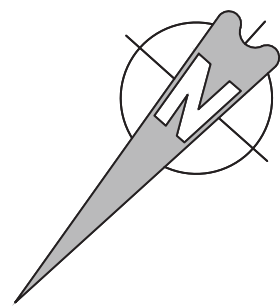
SEE DWG GPHRP-050S2-D218

MATCH
LINE



PROFILE VIEW
Scale 1:500

PROPOSED																													
SURVEY	72.07	72.71	73.16	73.54	74.05	74.46	74.88	75.22	75.65	76.05	76.49	76.93	77.34	77.78	78.30	78.68	79.07	79.43	79.70	80.05	80.34	80.62	81.03	81.34	81.62	81.92	82.27	82.62	82.97
HORIZ. ALIGN.																													
VERT. ALIGN.																													
STATION	5+230	5+240	5+250	5+260	5+270	5+280	5+290	5+300	5+310	5+320	5+330	5+340	5+350	5+360	5+370	5+380	5+390	5+400	5+410	5+420	5+430	5+440	5+450	5+460	5+470	5+480	5+490	5+500	5+510
SUPERELEVATION																													
DRAIN R	72.04	72.44	72.84	73.24	73.64	74.04	74.44	74.84	75.24	75.64	76.04	76.44	76.83	77.22	77.60	77.98	78.36	78.74	79.12	79.49	79.76	80.04	80.31	80.59	80.86	81.14	81.41	81.69	81.97
DRAIN L	71.80	72.22	72.63	73.04	73.46	73.87	74.28	74.70	75.11	75.52	75.94	76.35	76.76	77.18	77.59	77.94	78.25	78.57	78.88	79.20	79.51	79.83	80.14	80.46	80.77	81.09	81.40	81.71	82.02



Notes:

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4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
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- Existing Drain
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2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

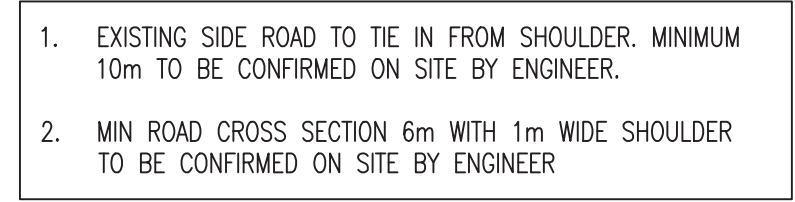
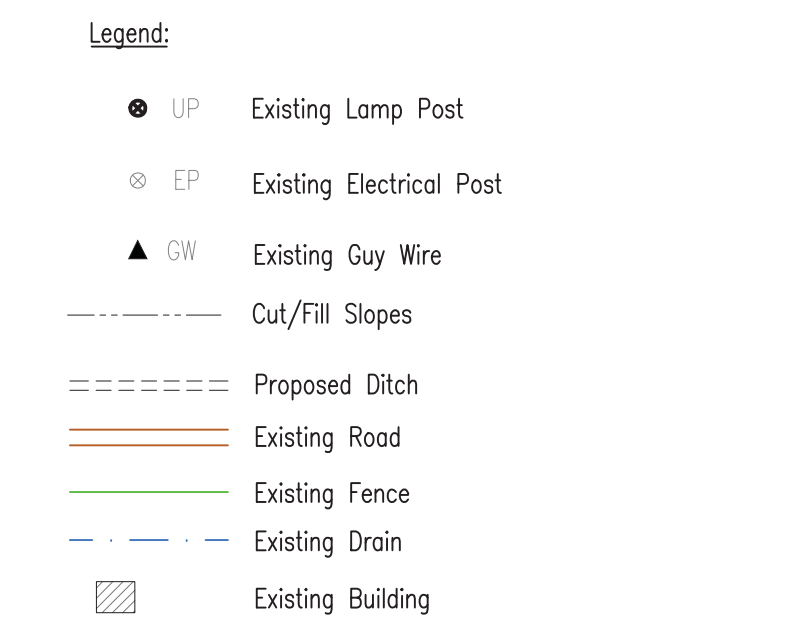
PLAN & PROFILE SEC. 2 – STA. 5+240 TO 5+502

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D219 Revision D

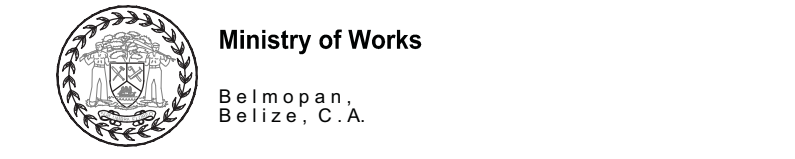
Drawing Scale: As noted at A1

Plot Scale: 1 : 1



D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.01.16	100% FINAL DESIGN
B	KA	MR	MS	14.01.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
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www.ch2m.com



Project

George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 2 - STA. 5+502 TO 5+764

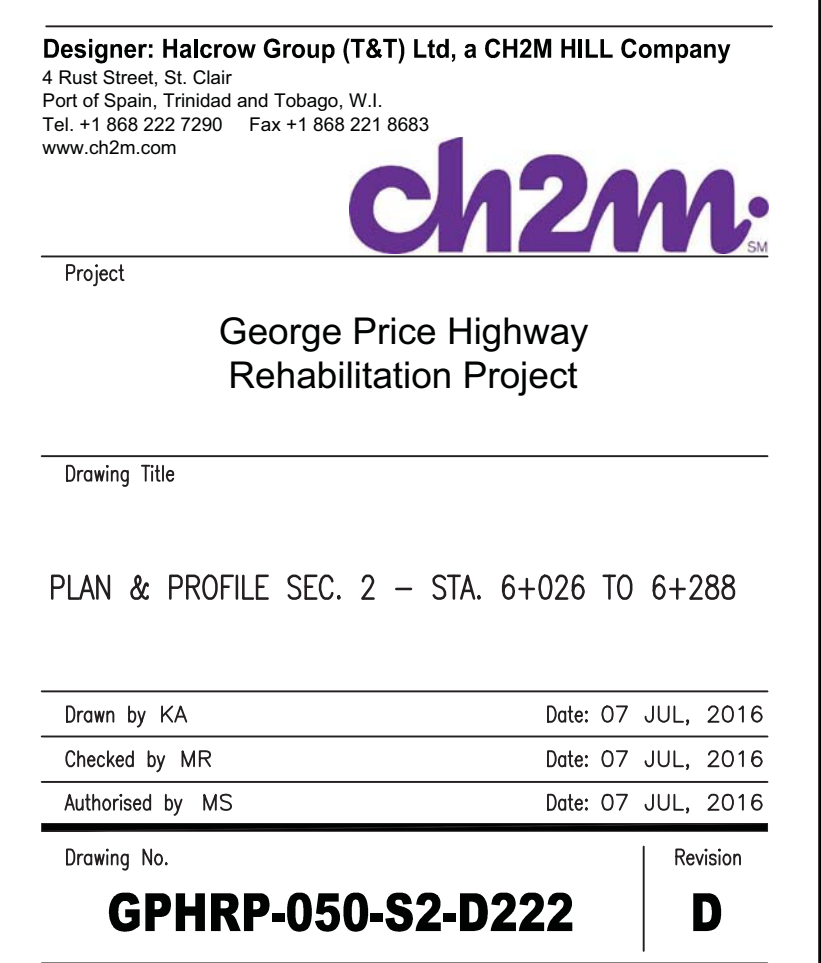
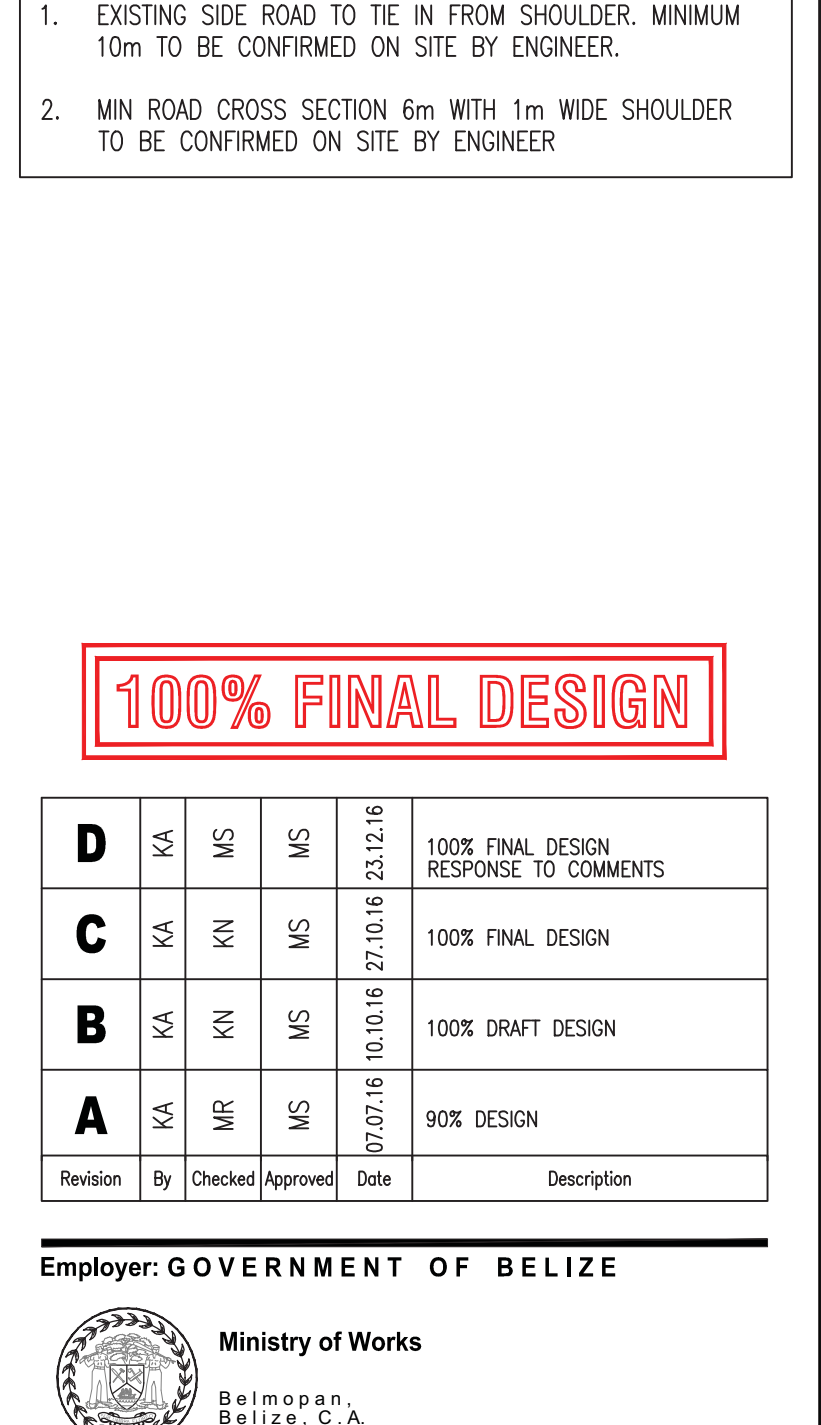
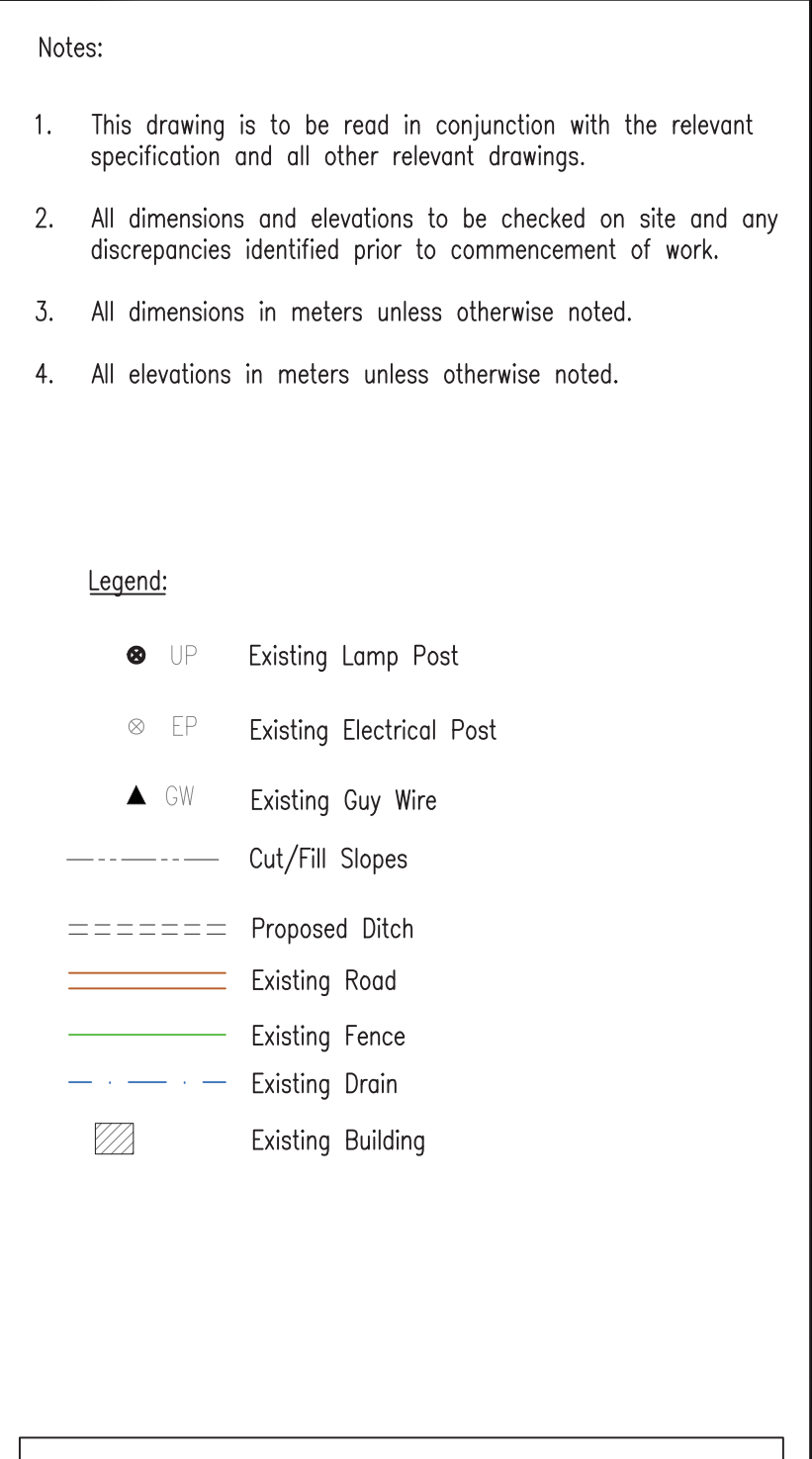
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S2-D220	D

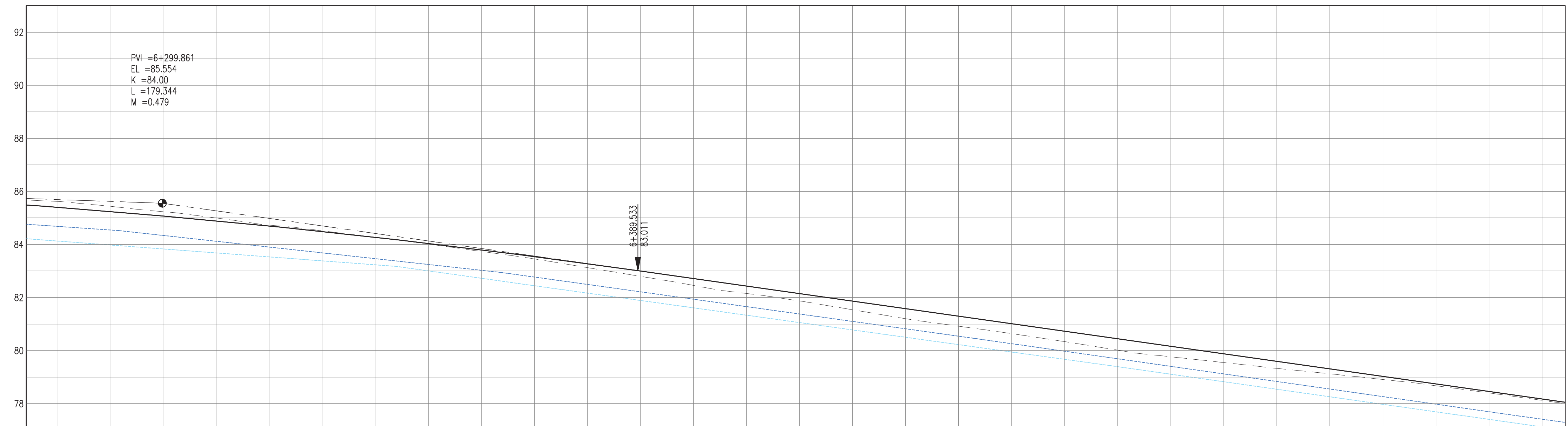
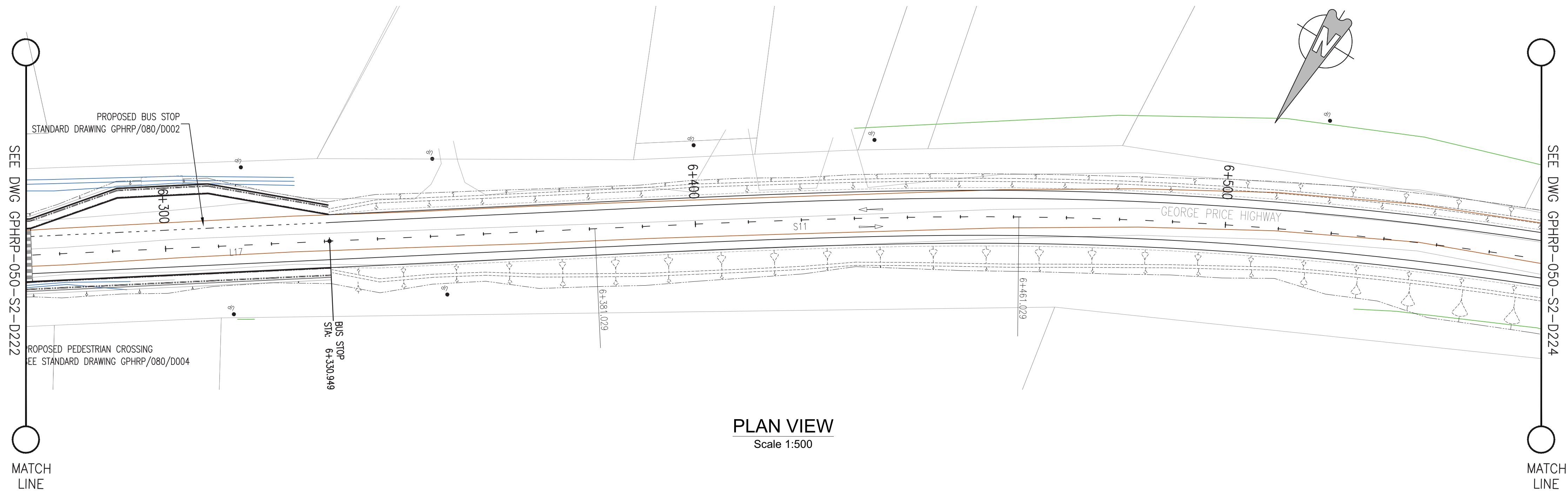
Drawing Scale: As noted at A1

Plot Scale: 1 : 1

Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S1-S2-D219-D238.dwg
 Reference file path : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\
 User and Plot Date : WS007 : 13:12017 - 10:1 pm



Plot Scale: 1 : 1



PROPOSED	85.40	85.24	85.07	84.89	84.70	84.49	84.27	84.04	83.80	83.54	83.28	83.00	82.71	82.43	82.15	81.86	81.58	81.30	81.01	80.73	80.45	80.16	79.88	79.59	79.31	79.03	78.74	78.46	78.18	
SURVEY	85.62	85.44	85.24	85.00	84.73	84.52	84.27	84.02	83.74	83.46	83.13	82.80	82.46	82.15	81.87	81.54	81.20	80.92	80.64	80.34	80.02	79.77	79.55	79.33	79.13	78.91	78.67	78.40	78.12	
HORIZ. ALIGN.	D=135.52											CL=80.00																		
VERT. ALIGN.	K=84.000 R=8400.00																													
STATION	6+280	6+290	6+300	6+310	6+320	6+330	6+340	6+350	6+360	6+370	6+380	6+390	6+400	6+410	6+420	6+430	6+440	6+450	6+460	6+470	6+480	6+490	6+500	6+510	6+520	6+530	6+540	6+550	6+560	
SUPERELEVATION																														
DRAIN R	84.13	83.98	83.83	83.68	83.53	83.38	83.23	83.01	82.73	82.44	82.17	81.89	81.61	81.33	81.06	80.78	80.50	80.22	79.95	79.67	79.39	79.11	78.83	78.54	78.26	77.98	77.69	77.41	77.12	
DRAIN L	84.68	84.55	84.34	84.12	83.90	83.68	83.46	83.25	83.03	82.77	82.49	82.22	81.94	81.66	81.38	81.10	80.82	80.54	80.26	79.98	79.69	79.41	79.12	78.84	78.55	78.27	77.98	77.70	77.41	

Notes:

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4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
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- Existing Drain
- Existing Building

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2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	MR	MS	07.07.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

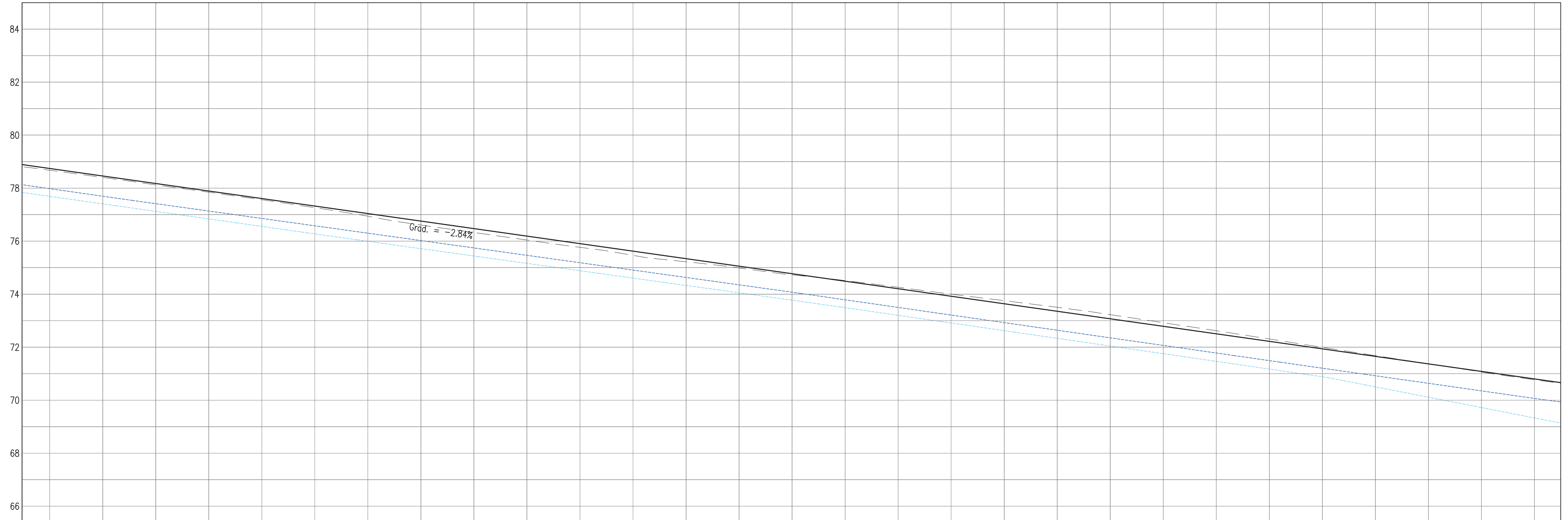
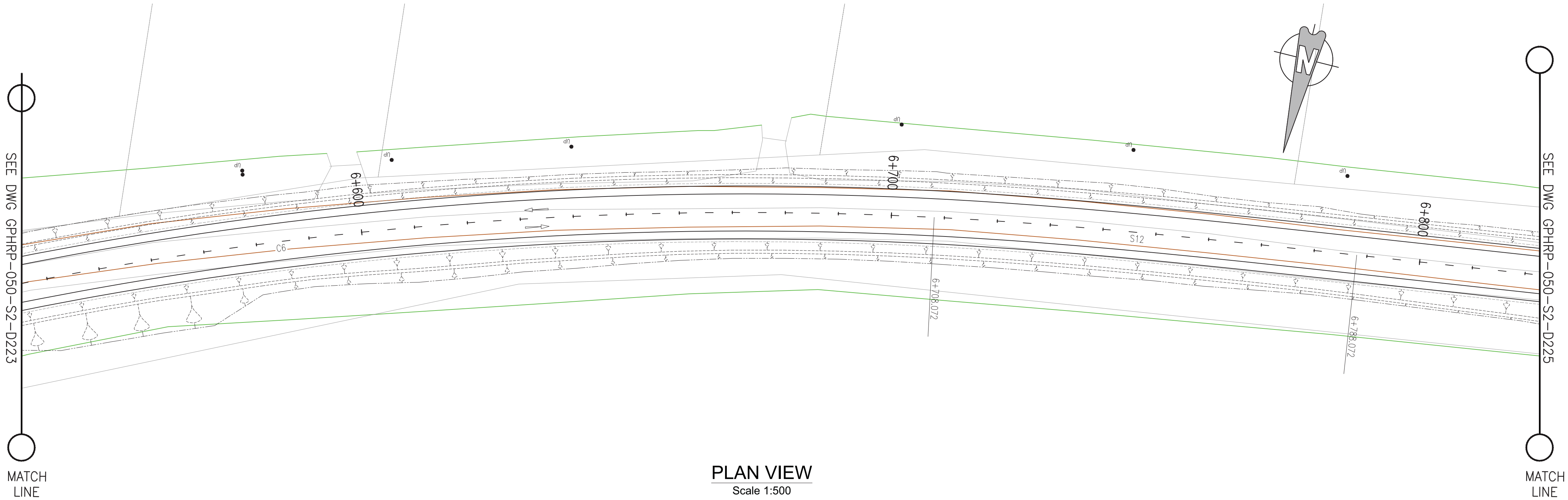
PLAN & PROFILE SEC. 2 - STA. 6+288 TO 6+550

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D223 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PROPOSED	-78.74	-78.46	-78.18	-77.89	-77.61	-77.33	-77.04	-76.76	-76.47	-76.19	-75.91	-75.62	-75.34	-75.06	-74.77	-74.49	-74.21	-73.92	-73.64	-73.35	-73.07	-72.79	-72.50	-72.22	-71.94	-71.65	-71.37	-71.09	-70.80	
SURVEY	78.67	78.40	78.12	77.85	77.56	77.26	76.94	76.61	76.33	76.04	75.77	75.46	75.22	74.99	74.73	74.51	74.26	74.00	73.75	73.50	73.23	72.92	72.62	72.31	71.99	71.68	71.37	71.06	70.77	
HORIZ. ALIGN.	R=700.00 L=247.04																		CL=80.00											
VERT. ALIGN.	L=448.18 G=-2.836%																													
STATION	6+540	6+550	6+560	6+570	6+580	6+590	6+600	6+610	6+620	6+630	6+640	6+650	6+660	6+670	6+680	6+690	6+700	6+710	6+720	6+730	6+740	6+750	6+760	6+770	6+780	6+790	6+800	6+810	6+820	
SUPERELEVATION																														
DRAIN R	-77.69	-77.41	-77.12	-76.84	-76.56	-76.27	-76.00	-75.72	-75.44	-75.16	-74.88	-74.61	-74.33	-74.05	-73.77	-73.49	-73.20	-72.91	-72.62	-72.33	-72.04	-71.75	-71.46	-71.17	-70.88	-70.50	-70.11	-69.72	-69.33	
DRAIN L	77.98	77.70	77.41	77.14	76.86	76.58	76.30	76.02	75.74	75.47	75.19	74.91	74.63	74.35	74.07	73.79	73.50	73.21	72.93	72.64	72.35	72.07	71.78	71.49	71.21	70.92	70.64	70.35	70.07	

PROFILE VIEW
Scale 1:500

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

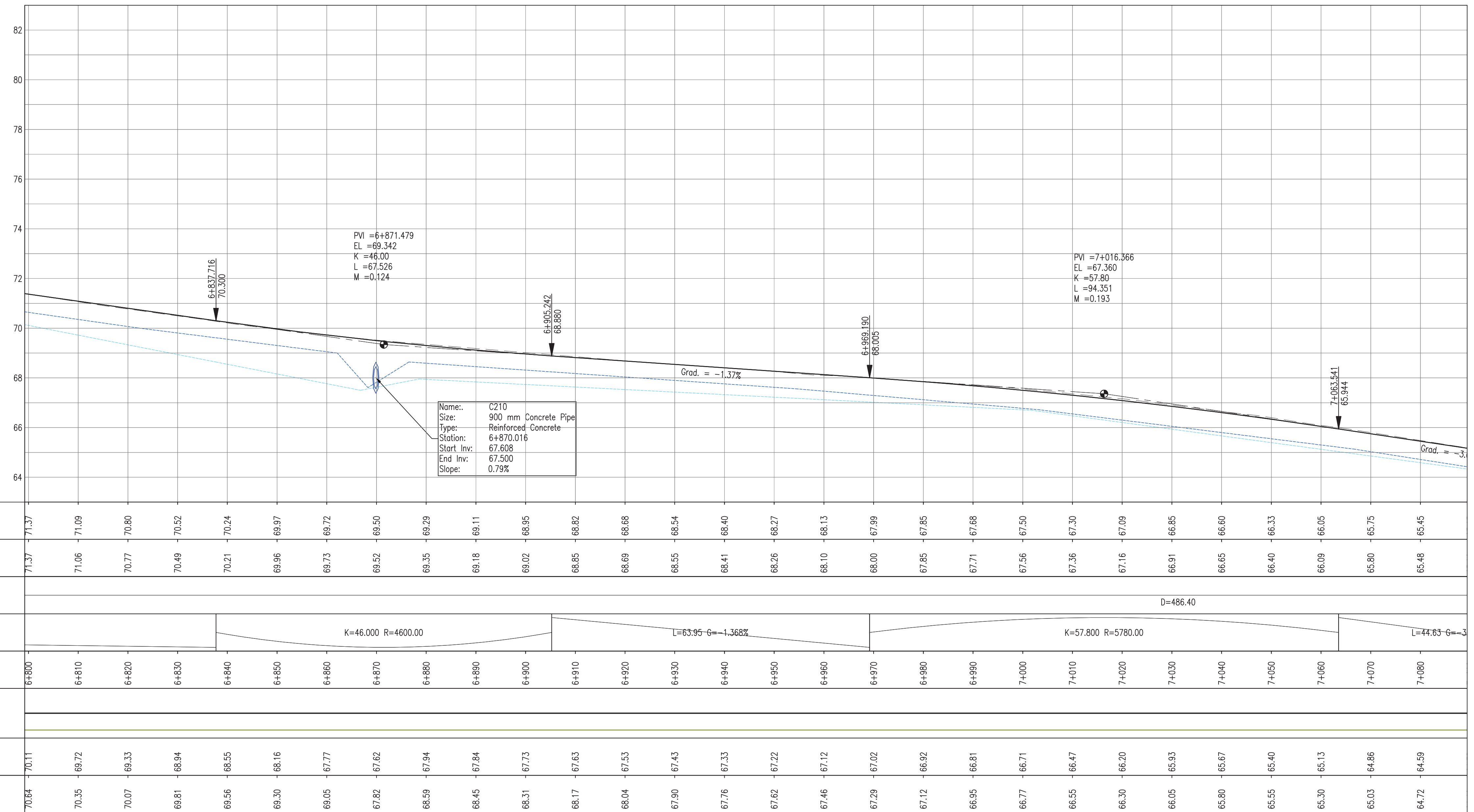
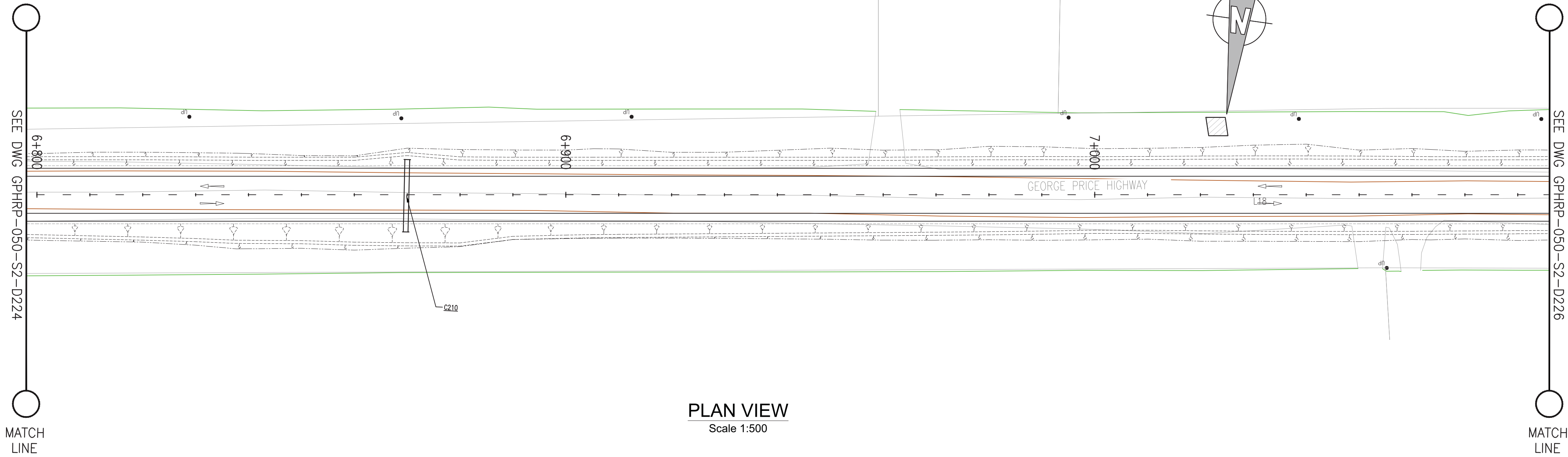
PLAN & PROFILE SEC. 2 - STA. 6+550 TO 6+812

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D224 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
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 - All elevations in meters unless otherwise noted.

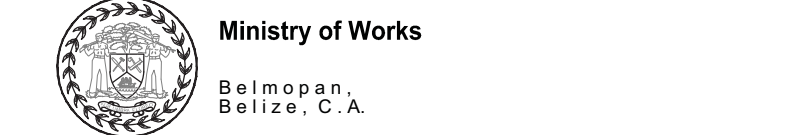
- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
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- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



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Project
George Price Highway
Rehabilitation Project

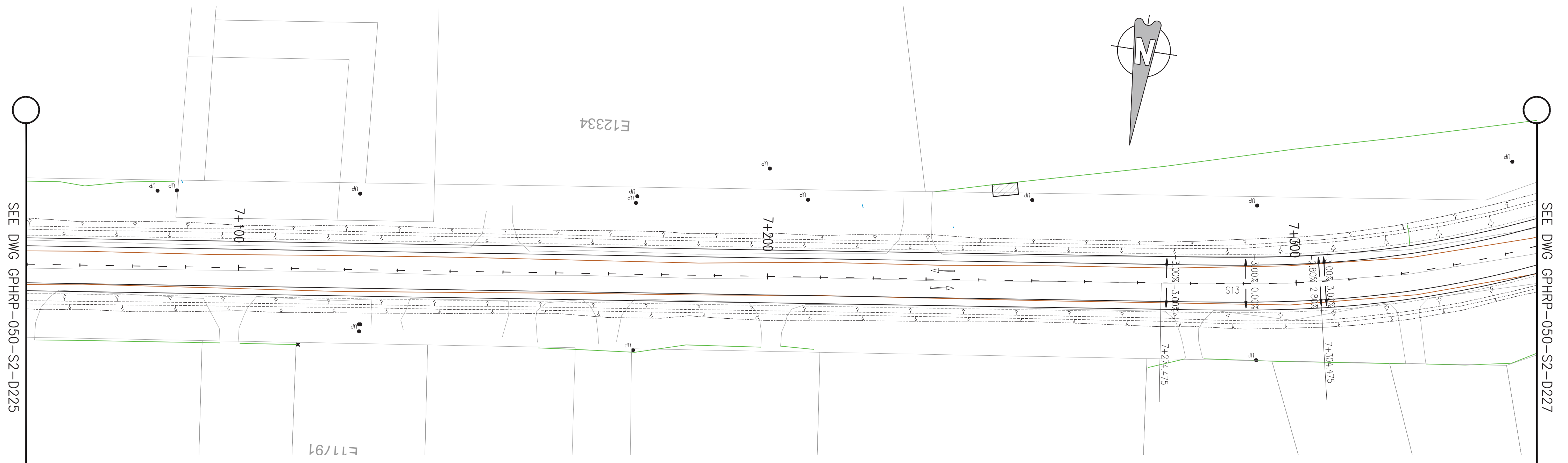
PLAN & PROFILE SEC. 2 - STA. 6+812 TO 7+074

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

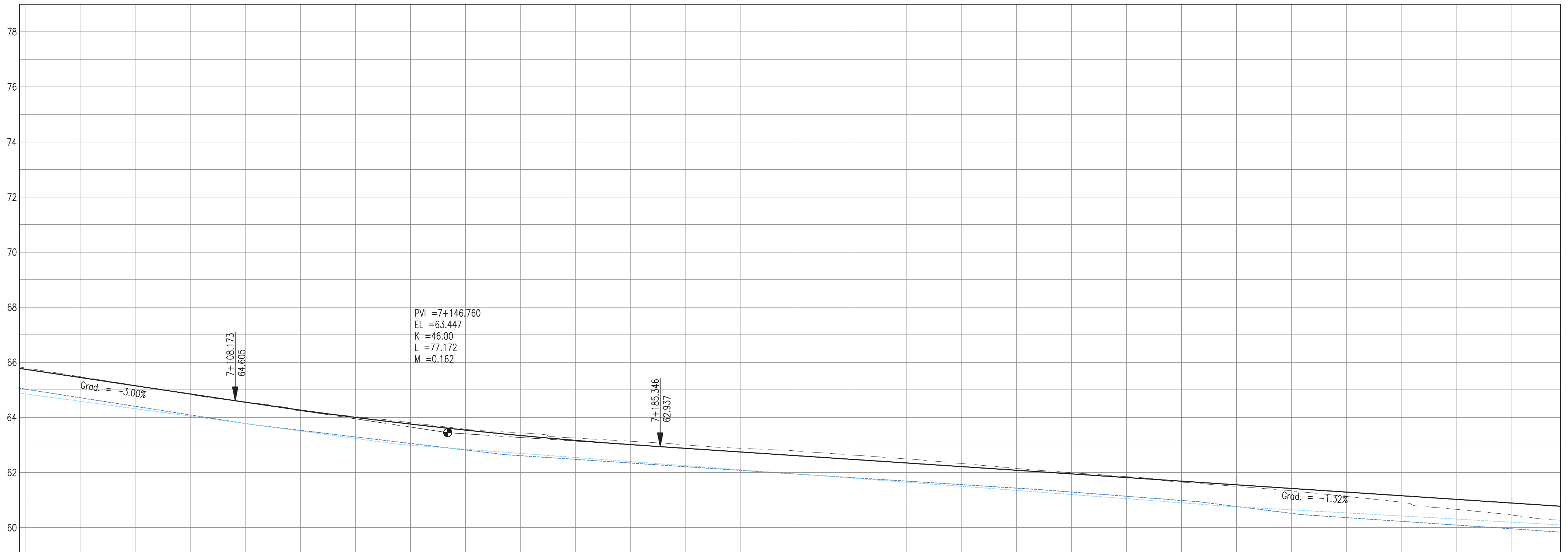
Drawing No. **GPHRP-050-S2-D225** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
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 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.


- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - - - - Proposed Ditch
 - Existing Road
 - Existing Fence
 - - - Existing Drain
 - ▨ Existing Building

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2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE

 Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
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Project
George Price Highway
Rehabilitation Project

Drawing Title

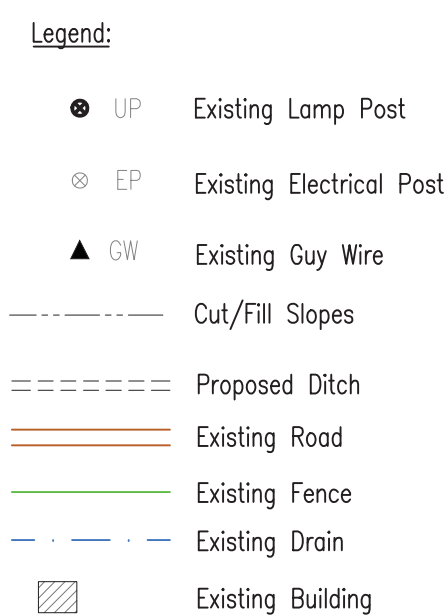
PLAN & PROFILE SEC. 2 – STA. 7+074 TO 7+336

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D226** Revision **D**

Drawing Scale: As noted at A1
Plot Scale: 1 : 1

Drawing file path & name: H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S2-D226.dwg
Reference file path: H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S2-D226.dwg
User and Plot Date: 15/07/17 16:18:16



1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER



D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	22.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

ch2m.

Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 - STA. 7+598 TO 7+860

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.

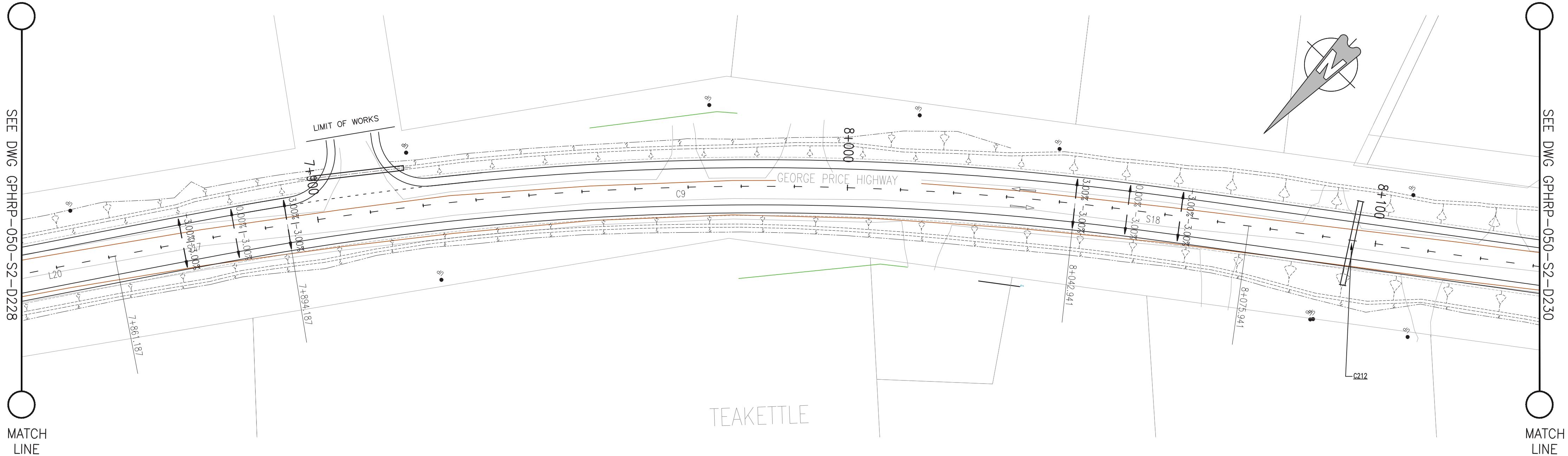
GPHRP-050-S2-D228

Drawing Scale: As noted at A1

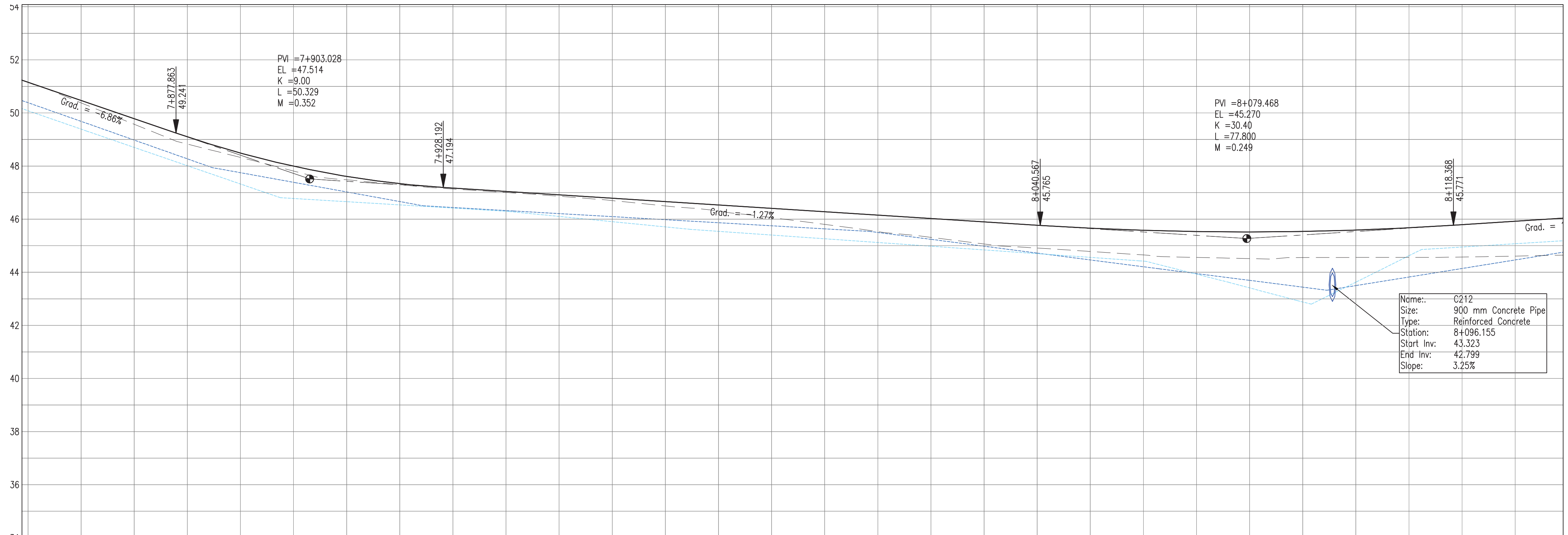
Plot Scale: 1 : 1



Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\ [100% Design] GPHRP-050-S1-S2-D2\19-D238.dwg
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 User and Plot Date : WS007 : 13:1-2017 - 11:1 pm



PLAN VIEW
Scale 1:500



PROPOSED	51.15	50.47	49.78	49.10	48.49	47.99	47.61	47.34	47.17	47.04	46.92	46.79	46.66	46.53	46.41	46.28	46.15	46.03	45.90	45.77	45.66	45.58	45.53	45.52	45.54	45.59	45.67	45.79	45.92
SURVEY	51.15	50.38	49.57	48.83	48.33	47.81	47.48	47.30	47.13	47.00	46.86	46.70	46.50	46.30	46.06	45.80	45.53	45.31	45.07	44.91	44.78	44.65	44.56	44.51	44.55	44.56	44.56	44.57	44.61
HORIZ. ALIGN.	33.38	CL=33.00 R=550.00 L=148.75														CL=33.00													
VERT. ALIGN.	L=32.64 G=-6.864%			K=9.000 R=900.00										L=112.37 G=-1.272%										K=30.400 R=3040.00					L=38.06 G=
STATION	7+860	7+860	7+870	7+880	7+890	7+900	7+910	7+920	7+930	7+940	7+950	7+960	7+970	7+980	7+990	8+000	8+010	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130
SUPERELEVATION	BNC7+874.19			7+884.19	7+894.19	7+904.19	7+914.19	7+924.19	7+934.19	7+944.19	7+954.19	7+964.19	7+974.19	7+984.19	7+994.19	8+004.19	8+014.19	8+024.19	8+034.19	8+044.19	8+054.19	8+064.19	8+074.19	8+084.19	8+094.19	8+104.19	8+114.19	8+124.19	8+134.19
DRAIN R	50.08	49.39	48.70	48.01	47.32	46.78	46.66	46.54	46.42	46.30	46.10	45.91	45.71	45.54	45.40	45.26	45.12	44.98	44.84	44.70	44.56	44.42	43.93	43.41	42.88	43.63	44.62	44.95	45.07
DRAIN L	50.39	49.68	48.98	48.27	47.75	47.39	47.03	46.66	46.44	46.32	46.21	46.09	45.98	45.87	45.75	45.64	45.50	45.24	44.98	44.72	44.46	44.21	43.95	43.70	43.44	43.50	43.82	44.14	44.46

PROFILE VIEW
Scale 1:500

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

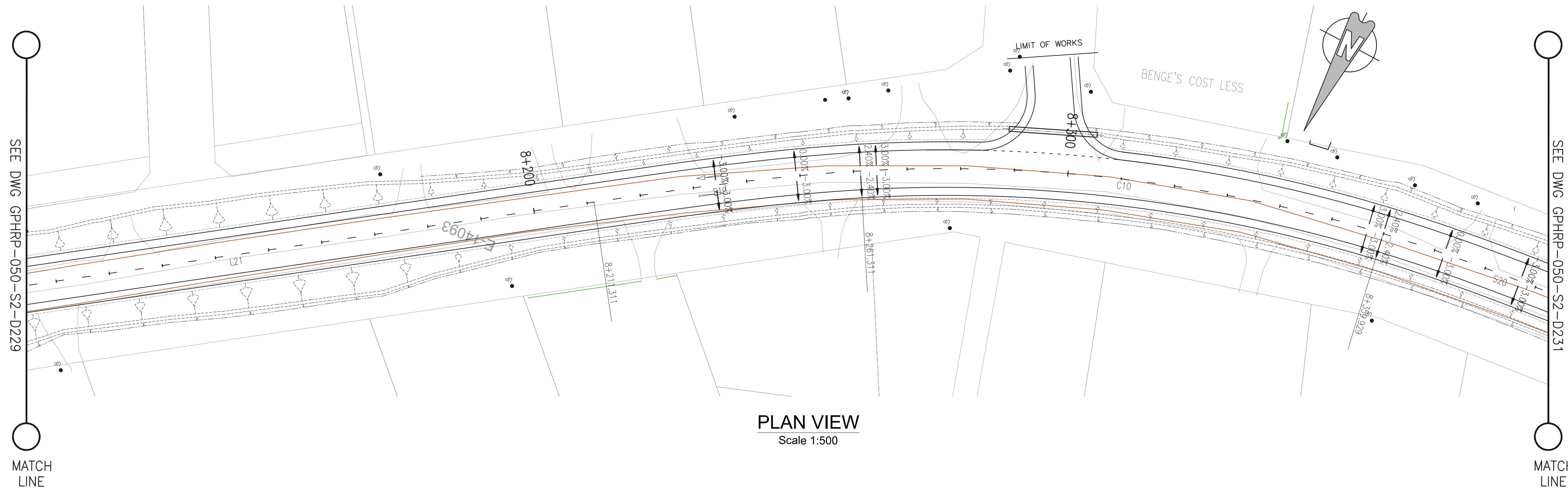
PLAN & PROFILE SEC. 2 - STA. 7+860 TO 8+122

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D229 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

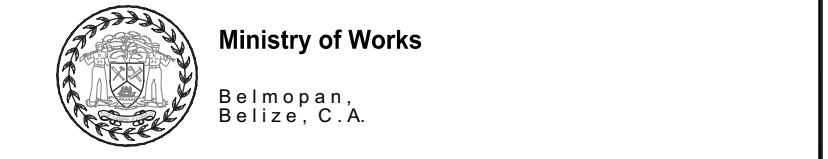
- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

Project

George Price Highway Rehabilitation Project

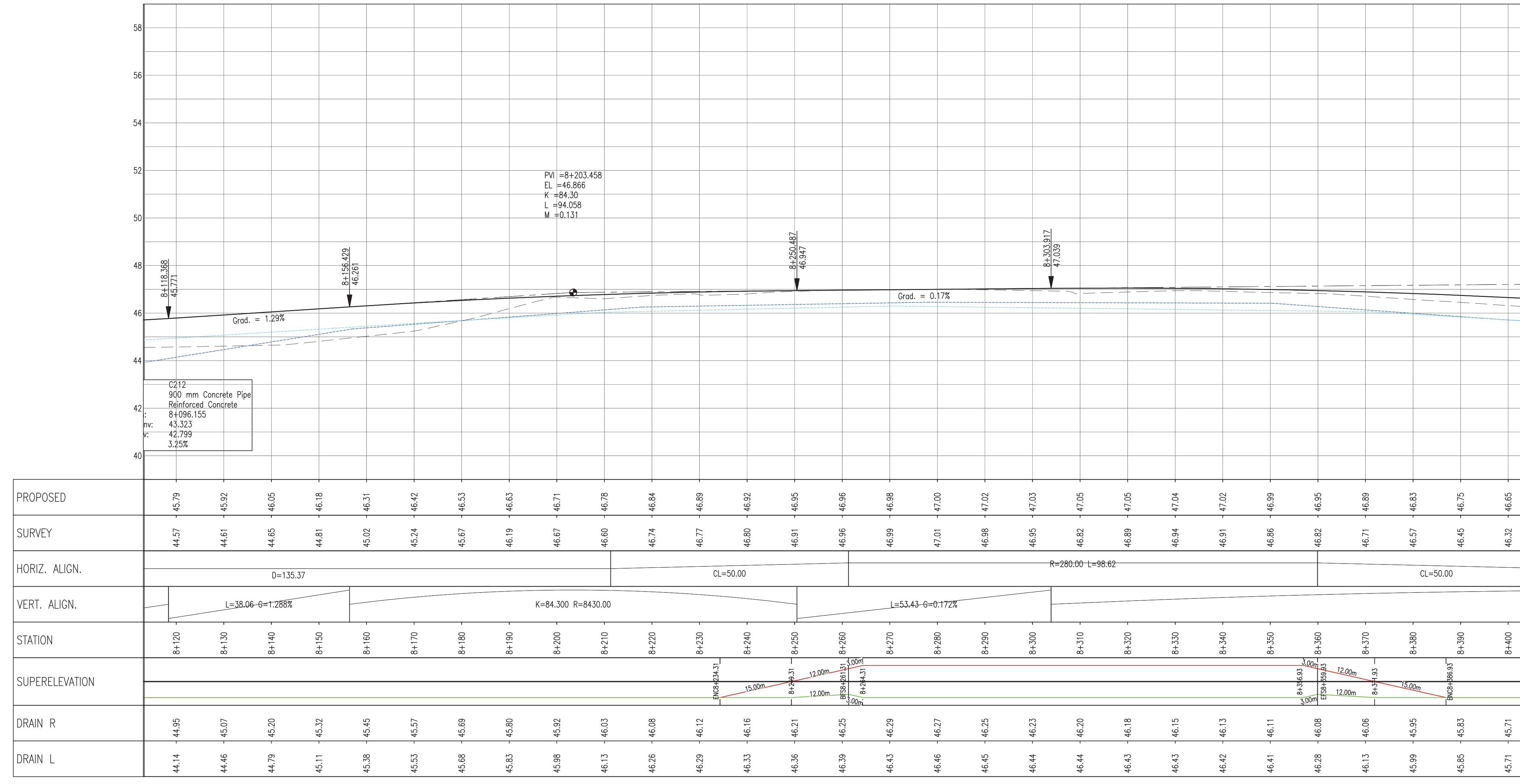
Drawing Title

PLAN & PROFILE SEC. 2 - STA. 8+122 TO 8+384

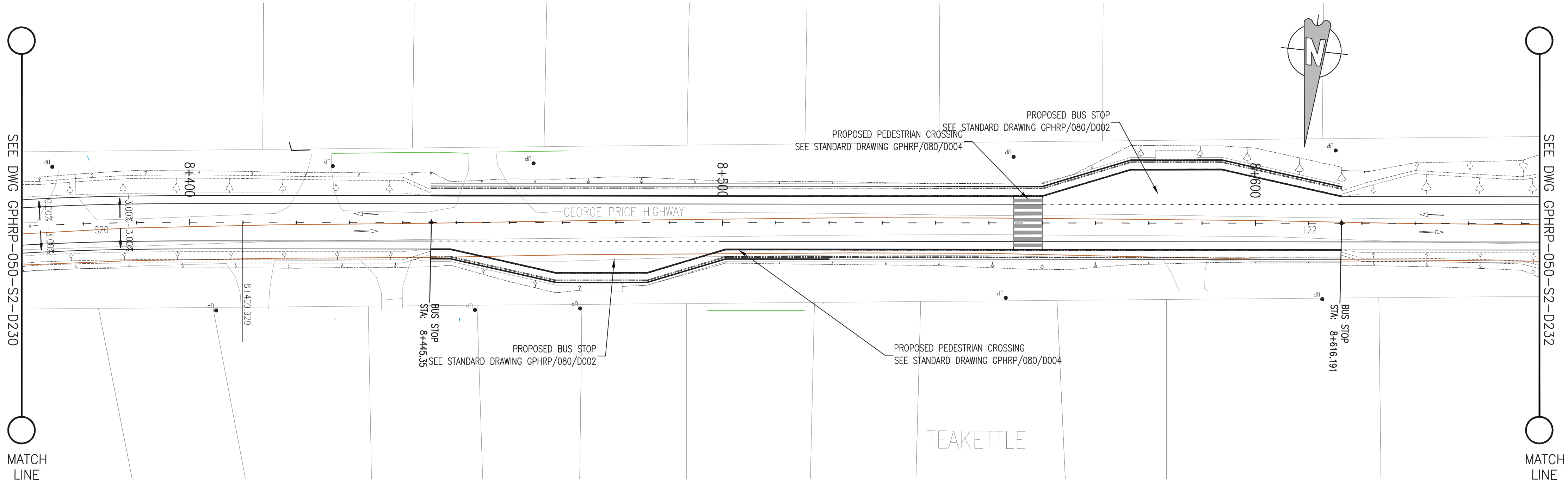
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D230** Revision **D**

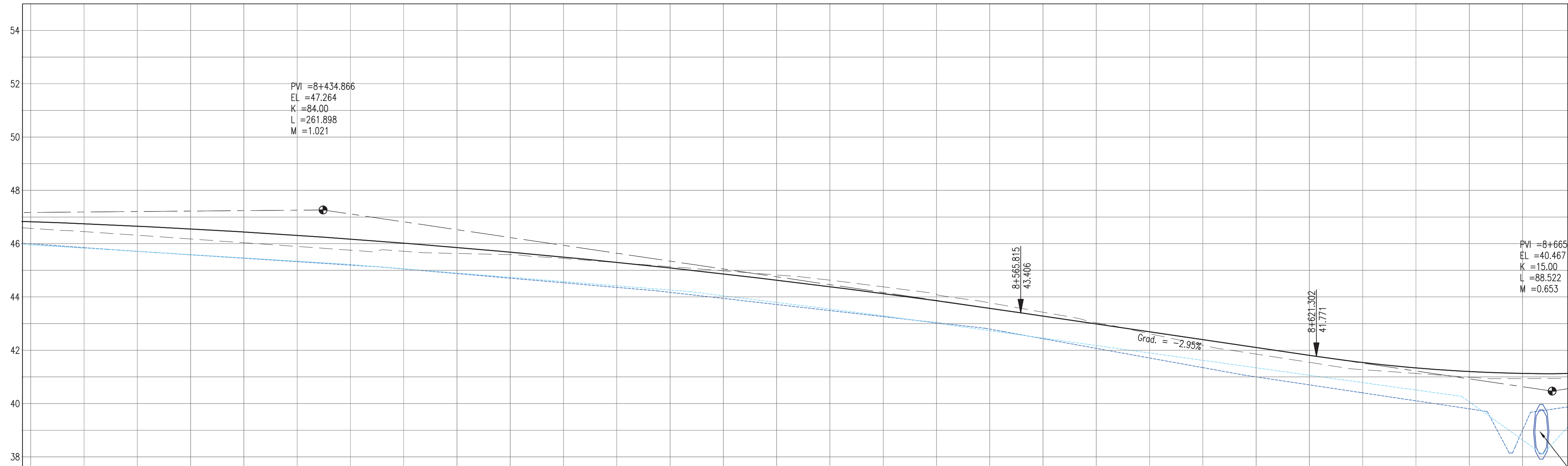
Drawing Scale: As noted at A1
Plot Scale: 1 : 1




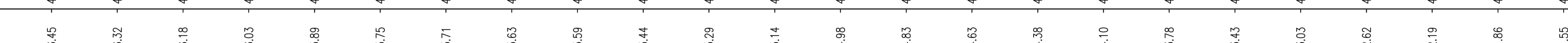
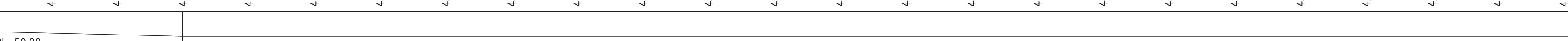

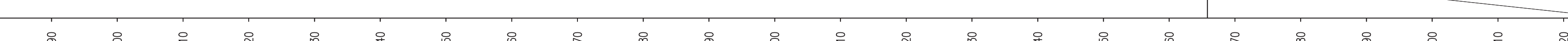
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User and Print Date : 16/07/2016 11:11 am



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

PROPOSED																																
SURVEY																																
HORIZ. ALIGN.																																
VERT. ALIGN.																																
STATION	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610	8+620	8+630	8+640	8+650	8+660			
SUPERELEVATION																																
DRAIN R	45.95	45.83	45.71	45.59	45.47	45.34	45.22	45.06	44.90	44.74	44.58	44.42	44.26	44.04	43.79	43.55	43.29	43.01	42.73	42.46	42.18	41.90	41.62	41.34	41.06	40.79	40.51	40.07	39.64			
DRAIN L	45.99	45.85	45.71	45.58	45.45	45.32	45.20	45.05	44.88	44.70	44.53	44.36	44.17	43.94	43.72	43.49	43.26	43.03	42.79	42.43	42.07	41.71	41.35	41.00	40.70	40.40	40.10	39.80	39.99			

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

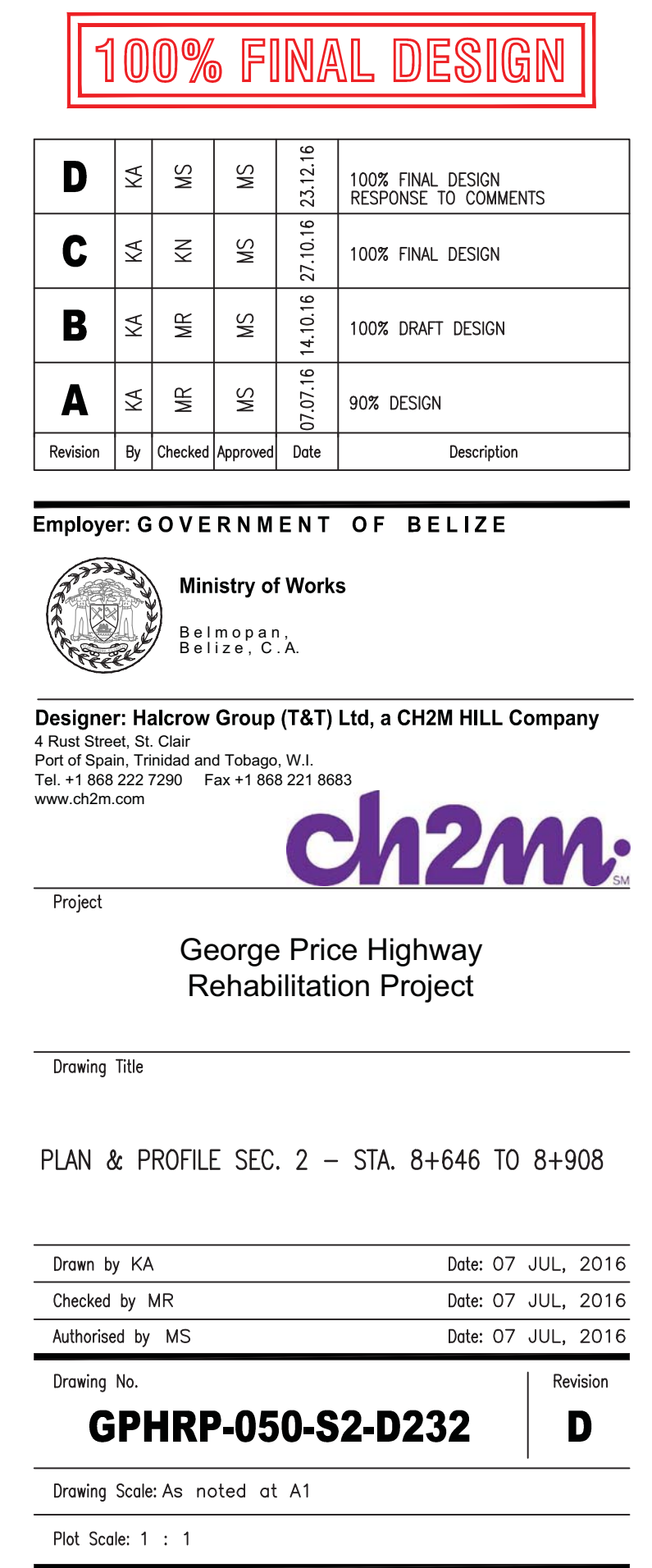
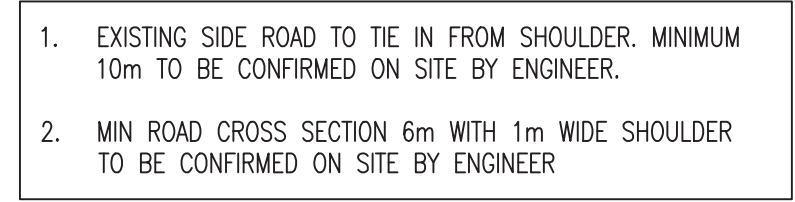
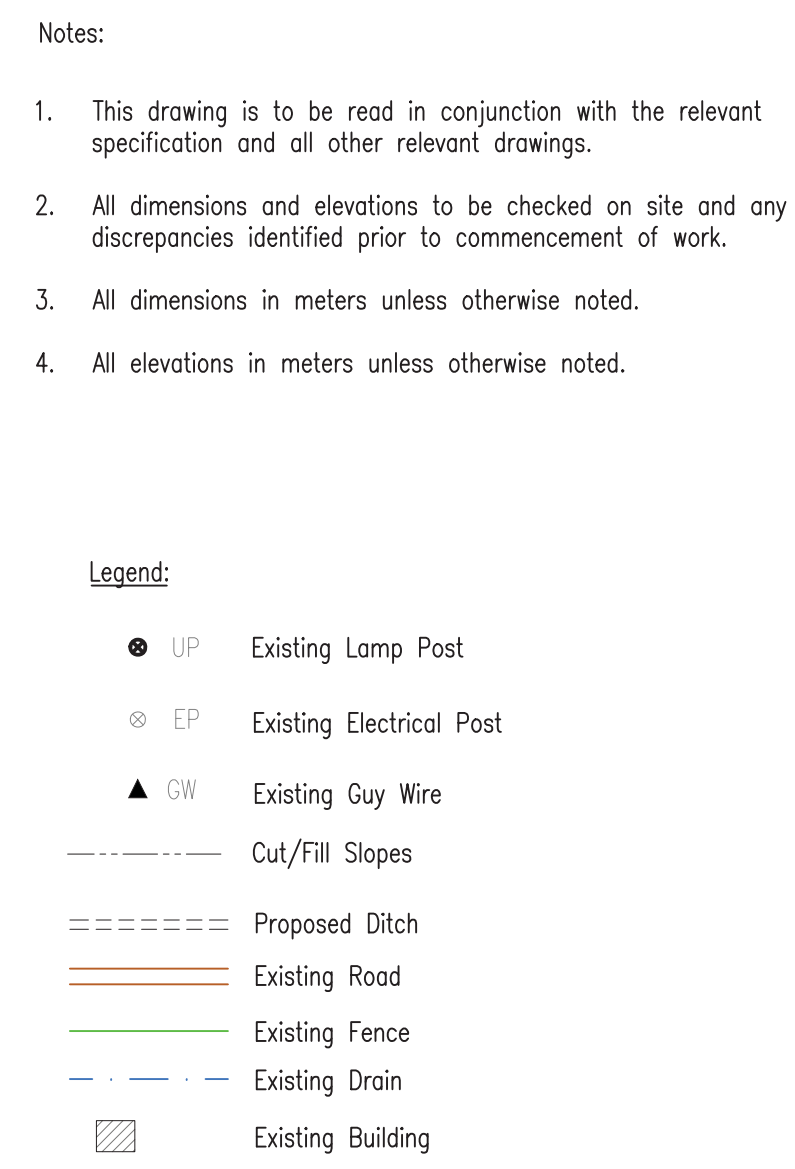
PLAN & PROFILE SEC. 2 - STA. 8+384 TO 8+646

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

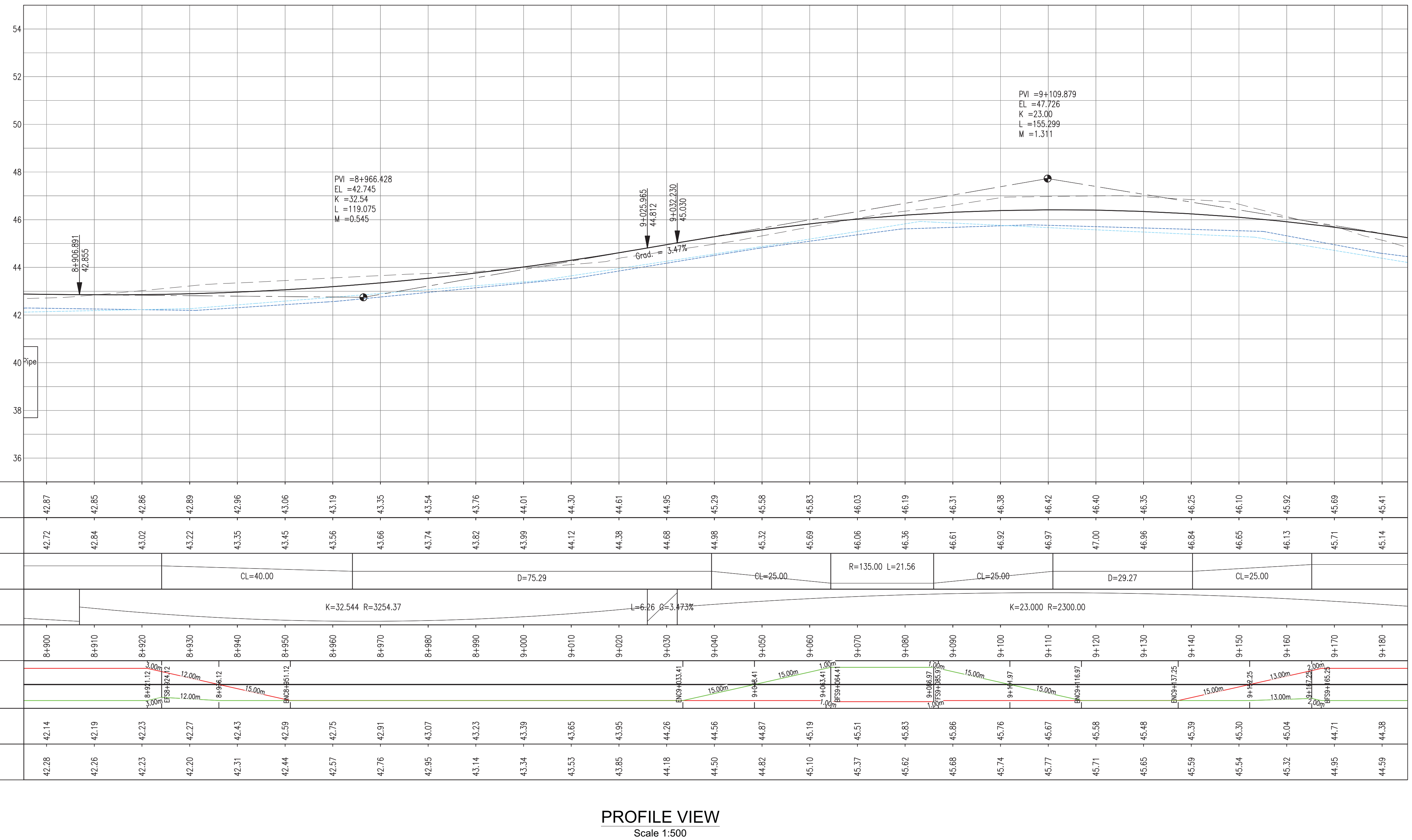
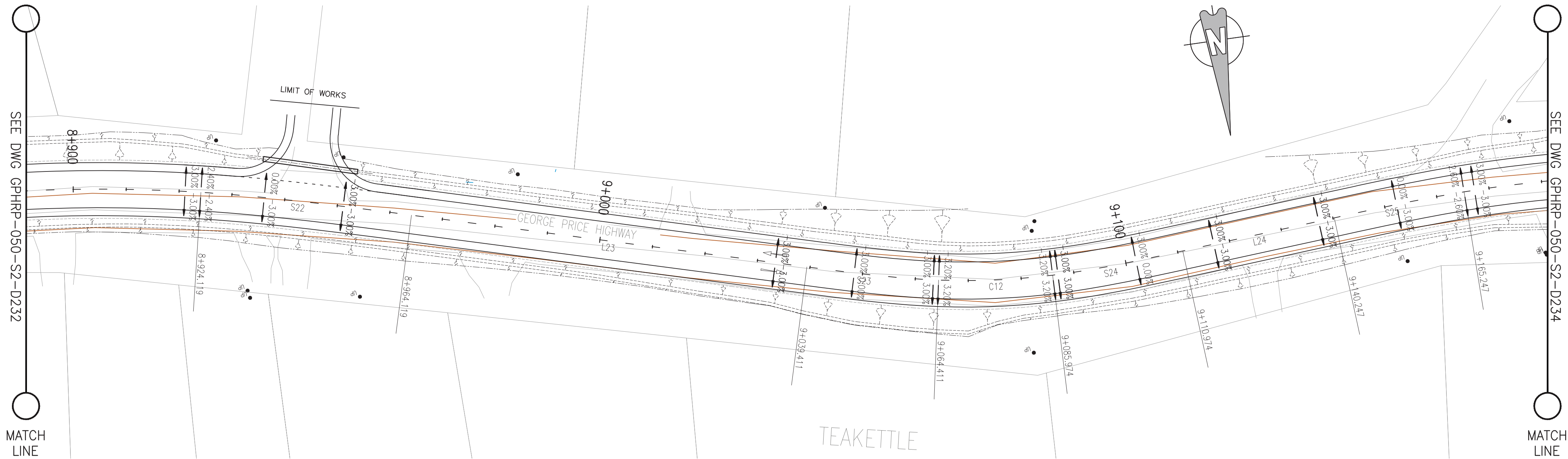
Drawing No. GPHRP-050-S2-D231 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



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 Reference file path : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\
 User and Plot Date : WS007 : 13:12017 - 11:1 pm



- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
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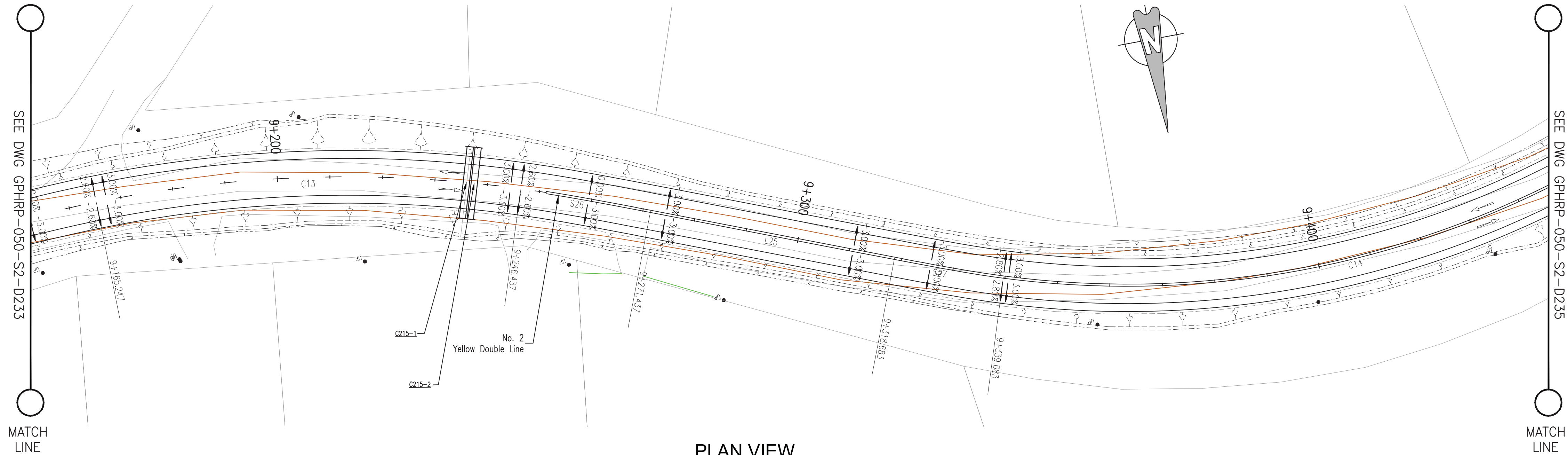
Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 - STA. 8+908 TO 9+170

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. Revision
GPHRP-050-S2-D233 **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1



Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

ch2m

Project
George Price Highway
Rehabilitation Project

Drawing Title

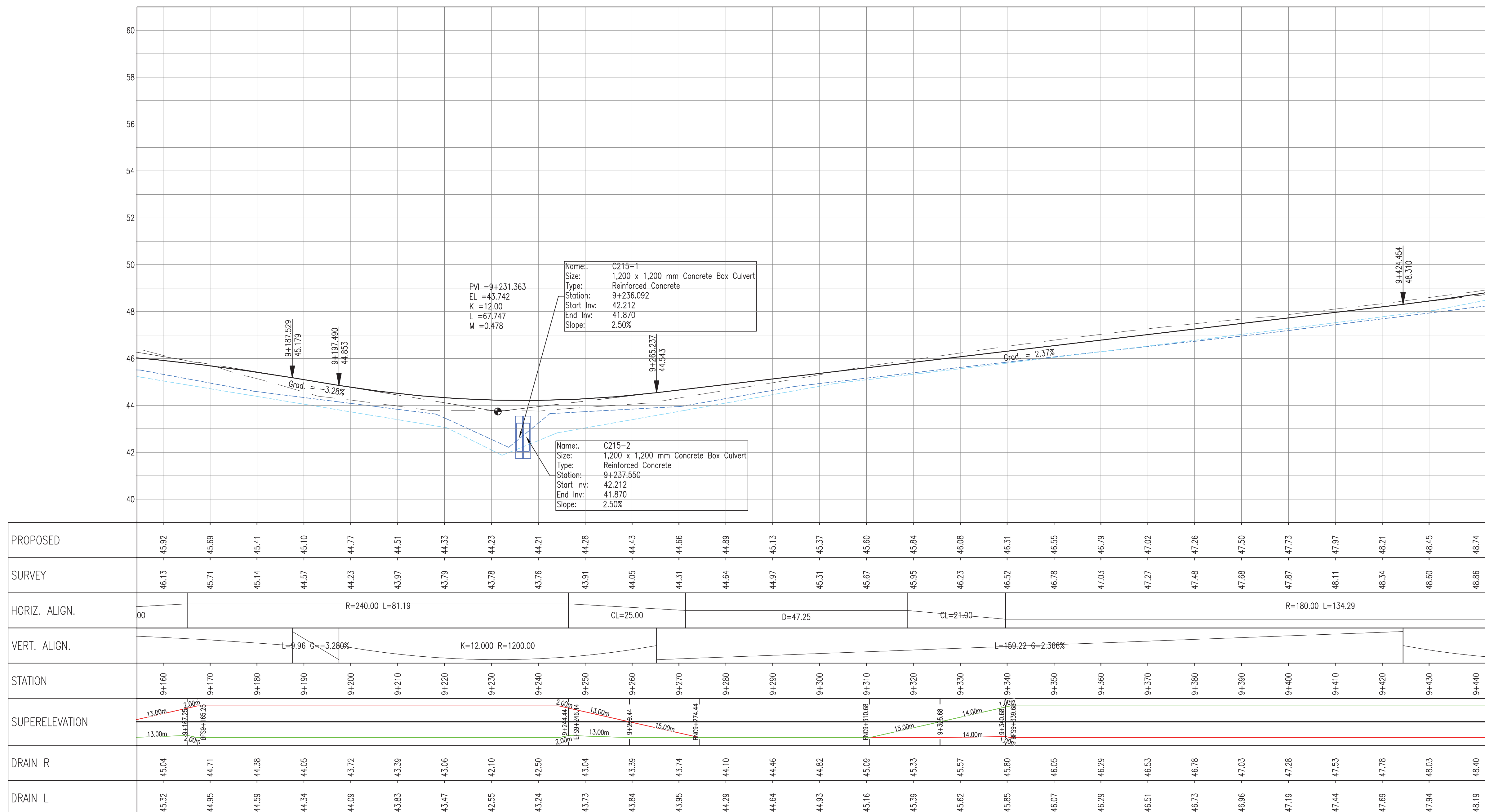
PLAN & PROFILE SEC. 2 - STA. 9+170 TO 9+432

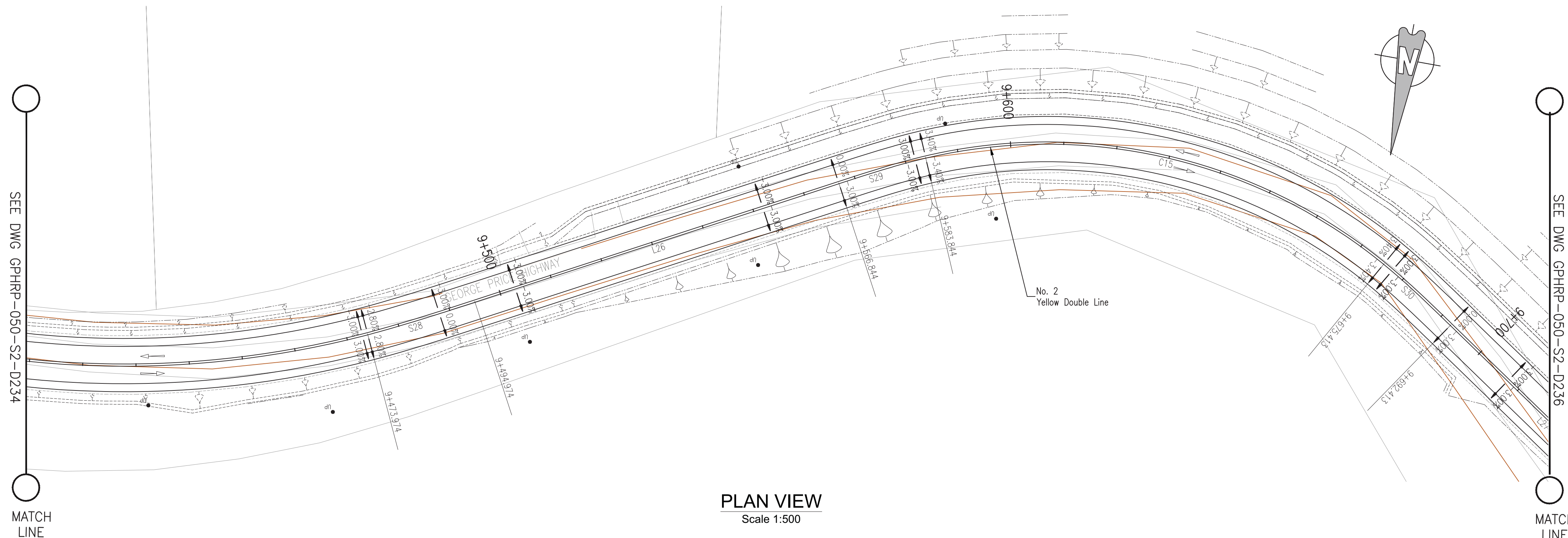
Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D234 Revision D

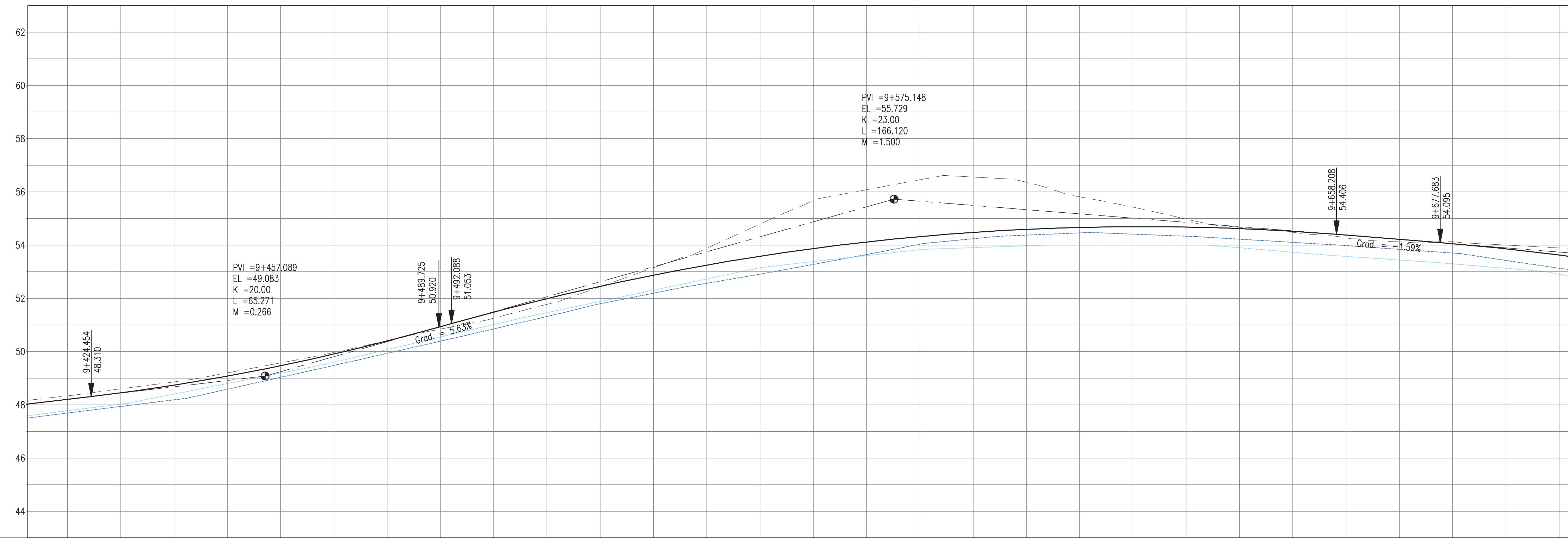
Drawing Scale: As noted at A1

Plot Scale: 1 : 1





PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

PROPOSED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SURVEY		48.34	- 48.21		48.60	- 48.45		48.86	- 48.74		49.20	- 49.08		49.58	- 49.47		49.97	- 49.91		50.41	- 50.40		50.85	- 50.94		51.25	- 51.48		51.78	- 51.99		52.44	- 52.45		53.15	- 52.87		53.88	- 53.25		54.79	- 53.58		55.67	- 53.87		56.08	- 54.12		56.46	- 54.32		56.56	- 54.48		56.37	- 54.60		55.82	- 54.67		55.43	- 54.70		54.97	- 54.68		54.67	- 54.62		54.48	- 54.52		54.27	- 54.38		54.12	- 54.22		54.13	- 54.06		54.00	- 53.87		53.89	- 53.63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
HORIZ. ALIGN.		29												CL=21.00										D=71.87										CL=17.00										R=100.00 L=91.57										CL=17.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
VERT. ALIGN.				K=20.000 R=2000.00										L=2.36		G=-5.630%		K=23.000 R=2300.00												L=19.48										G=-1.593%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
STATION		9+420		9+430		9+440		9+450		9+460		9+470		9+480		9+490		9+500		9+510		9+520		9+530		9+540		9+550		9+560		9+570		9+580		9+590		9+600		9+610		9+620		9+630		9+640		9+650		9+660		9+670		9+680		9+690		9+700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
SUPERELEVATION				14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14.00m		14	

- Notes:
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 - All elevations in meters unless otherwise noted.

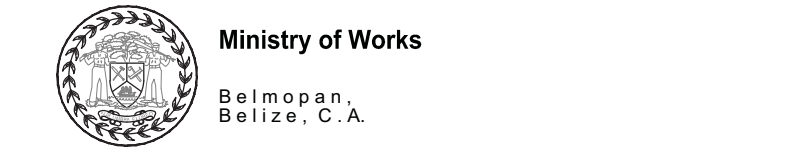
- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - - - - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



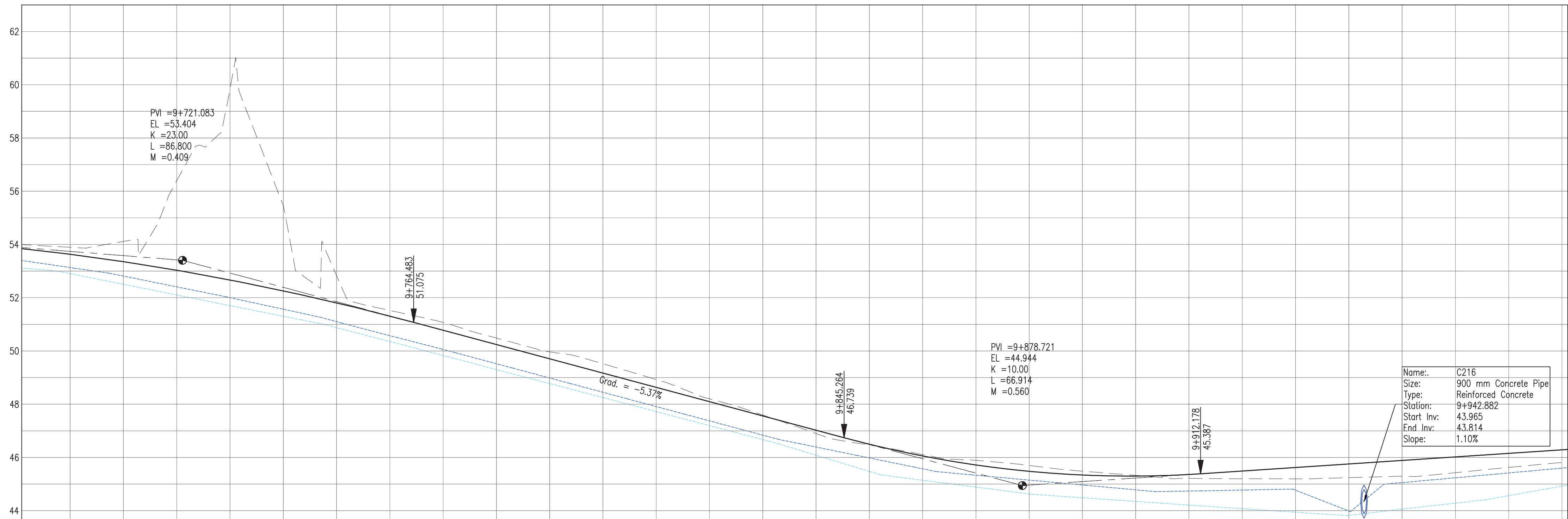
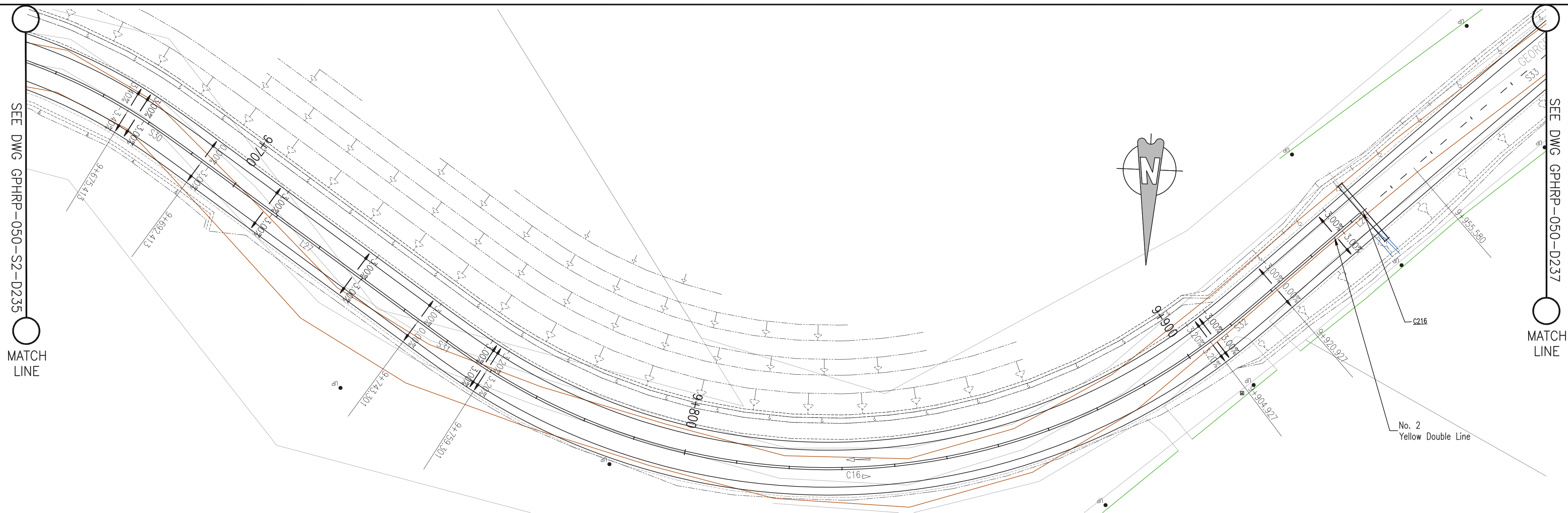
Project
George Price Highway Rehabilitation Project

PLAN & PROFILE SEC. 2 - STA. 9+432 TO 9+694

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D235** Revision **D**

Drawing Scale: As noted at A1
Plot Scale: 1 : 1



PROPOSED																																
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- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

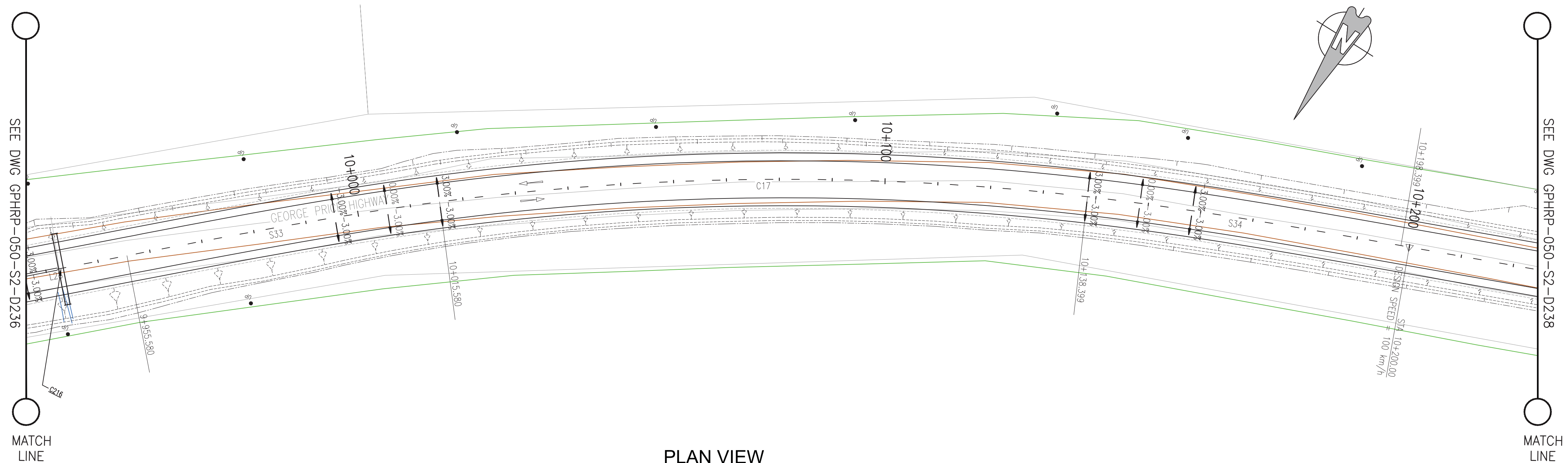
PLAN & PROFILE SEC. 2 - STA. 9+694 TO 9+956

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

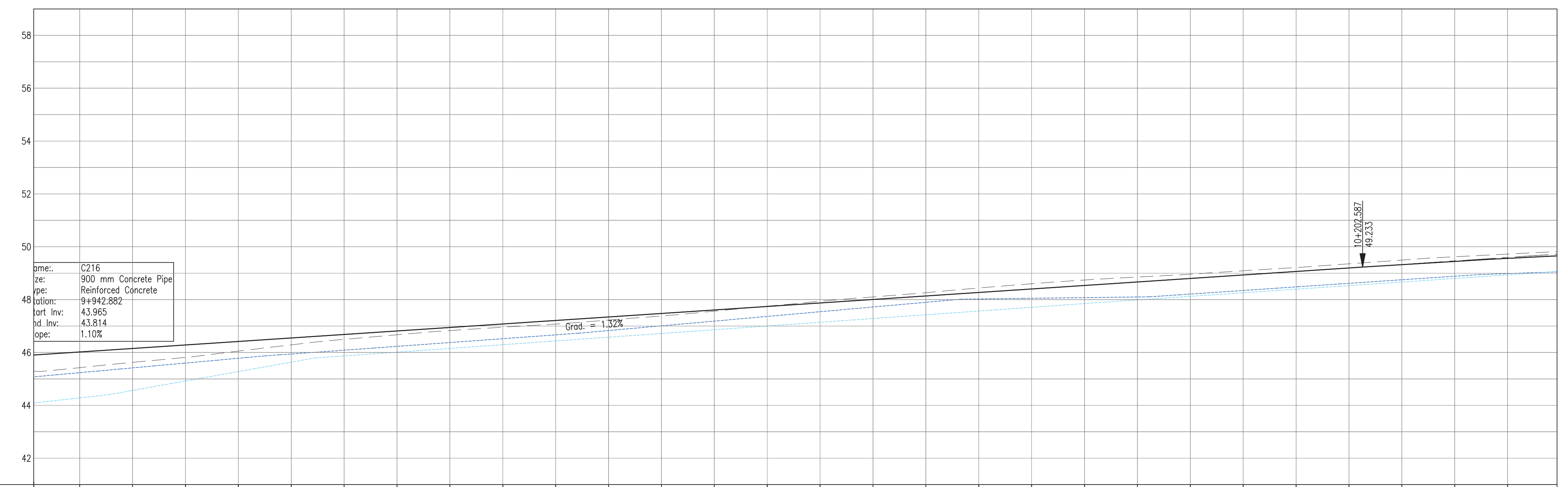
Drawing No.
GPHRP-050-S2-D236
Revision
D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PLAN VIEW
Scale 1:500



PROPOSED		45.43	-	46.02																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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PROFILE VIEW
Scale 1:500

- Notes:
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 - All elevations in meters unless otherwise noted.

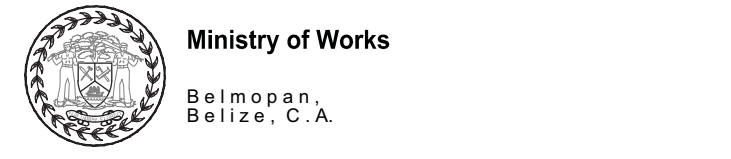
- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - - - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway Rehabilitation Project

Drawing Title

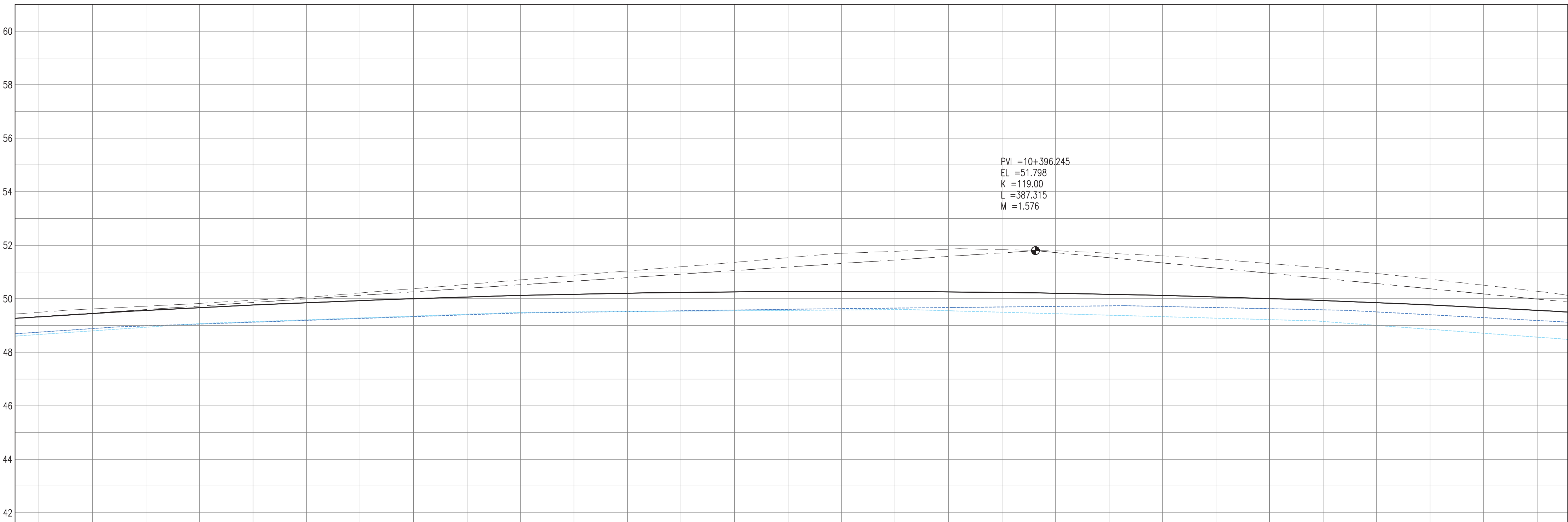
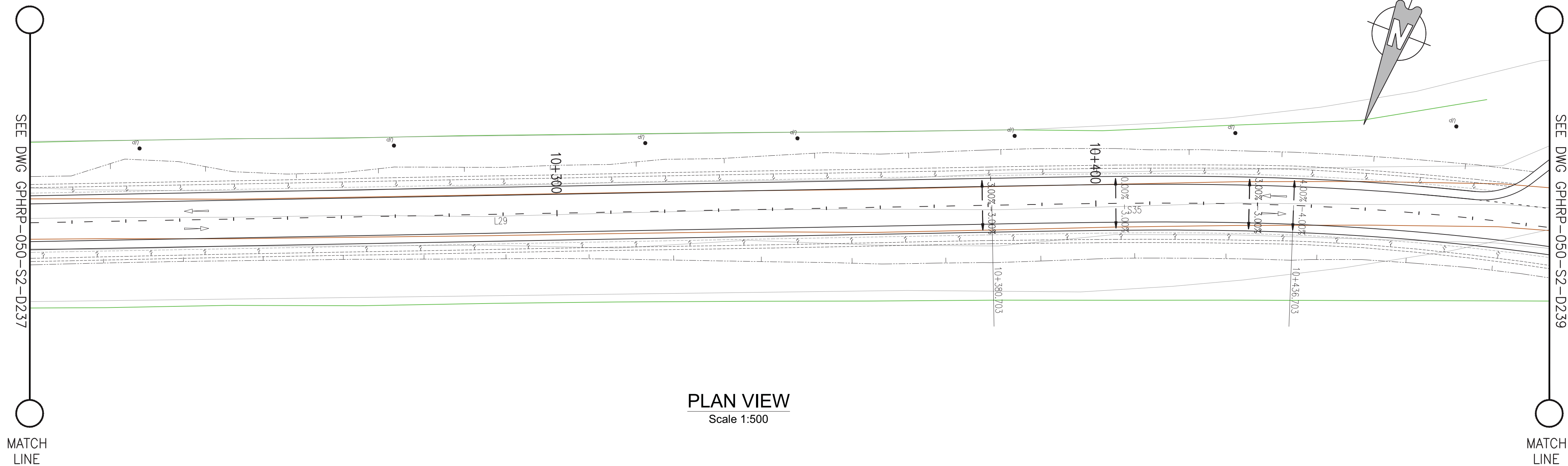
PLAN & PROFILE SEC. 2 – STA. 9+956 TO 10+218

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D237** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PROPOSED	49.33	49.45	49.56	49.67	49.77	49.86	49.94	50.01	50.07	50.12	50.17	50.21	50.24	50.26	50.27	50.28	50.27	50.26	50.24	50.21	50.17	50.13	50.07	50.01	49.94	49.86	49.77	49.67	49.57			
SURVEY	49.49	49.62	49.72	49.82	49.94	50.06	50.22	50.38	50.53	50.71	50.88	51.04	51.20	51.36	51.54	51.70	51.77	51.85	51.84	51.79	51.70	51.60	51.47	51.31	51.15	50.94	50.73	50.51	50.28			
HORIZ. ALIGN.	D=182.30																		CL=56.00													
VERT. ALIGN.	K=119.000 R=11900.00																															
STATION	10+210	10+220	10+230	10+240	10+250	10+260	10+270	10+280	10+290	10+300	10+310	10+320	10+330	10+340	10+350	10+360	10+370	10+380	10+390	10+400	10+410	10+420	10+430	10+440	10+450	10+460	10+470	10+480	10+490			
SUPERELEVATION																																
																			ENC10+378.95	24.75m	10+433.70	24.75m	8.25m	10+438.49	8.25m	10+438.70						
																			ENC10+378.95	24.75m	10+433.70	24.75m	8.25m	10+438.49	8.25m	10+438.70						
DRAIN R	48.66	48.80	48.94	49.07	49.14	49.21	49.28	49.35	49.42	49.49	49.51	49.52	49.54	49.55	49.57	49.58	49.59	49.55	49.50	49.44	49.39	49.33	49.28	49.22	49.15	49.00	48.86	48.71	48.57			
DRAIN L	48.75	48.89	48.99	49.05	49.12	49.19	49.26	49.33	49.40	49.47	49.50	49.52	49.55	49.58	49.61	49.63	49.65	49.67	49.69	49.71	49.73	49.71	49.67	49.63	49.59	49.51	49.40	49.29	49.19			

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

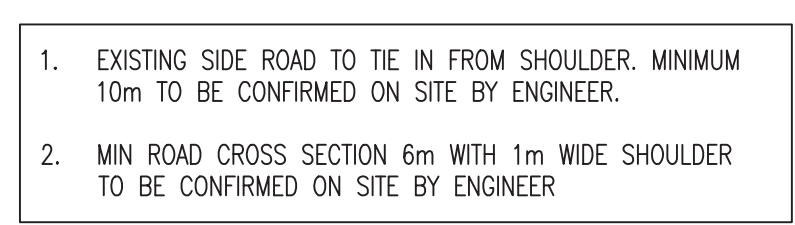
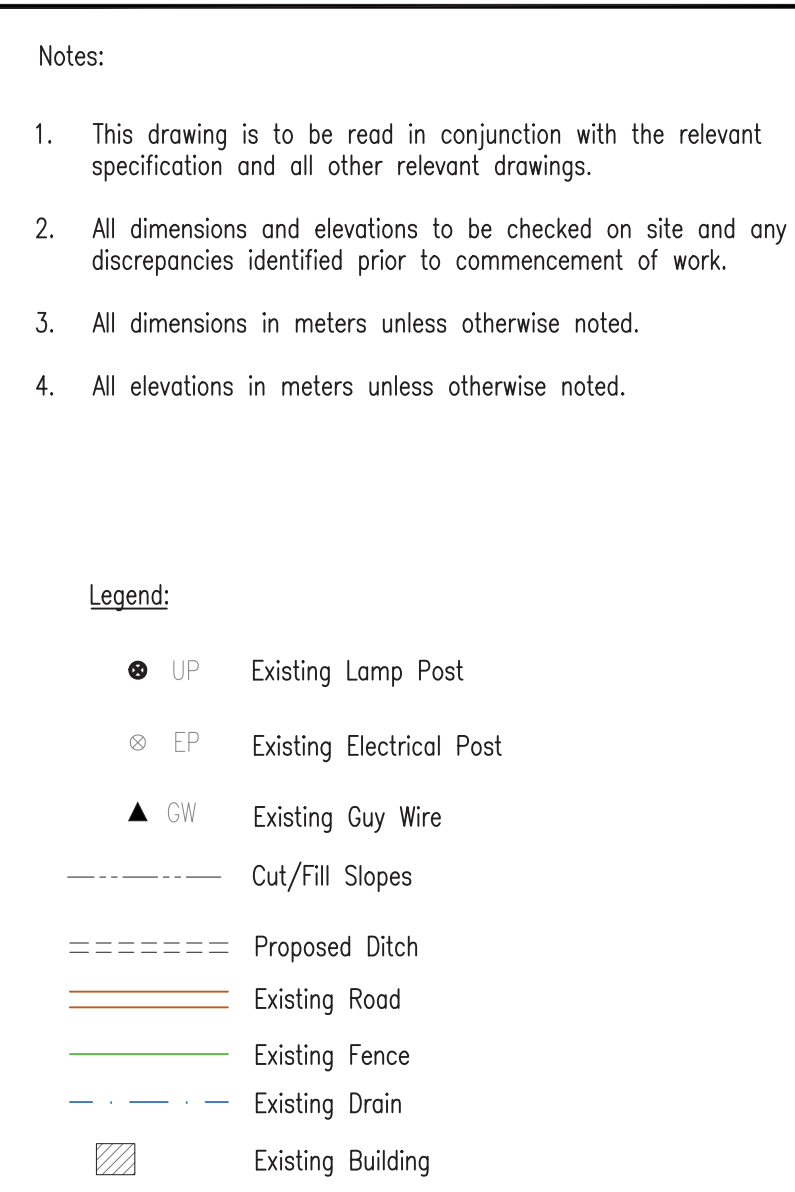
PLAN & PROFILE SEC. 2 – STA. 10+218 TO 10+480

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

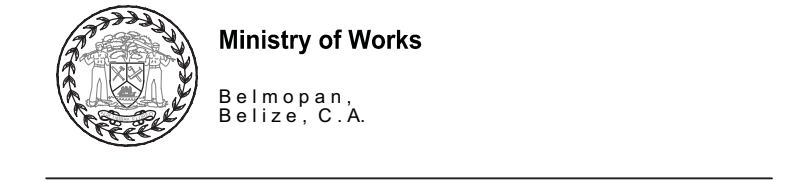
Drawing No. GPHRP-050-S2-D238 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	KN	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description



Drawing Title

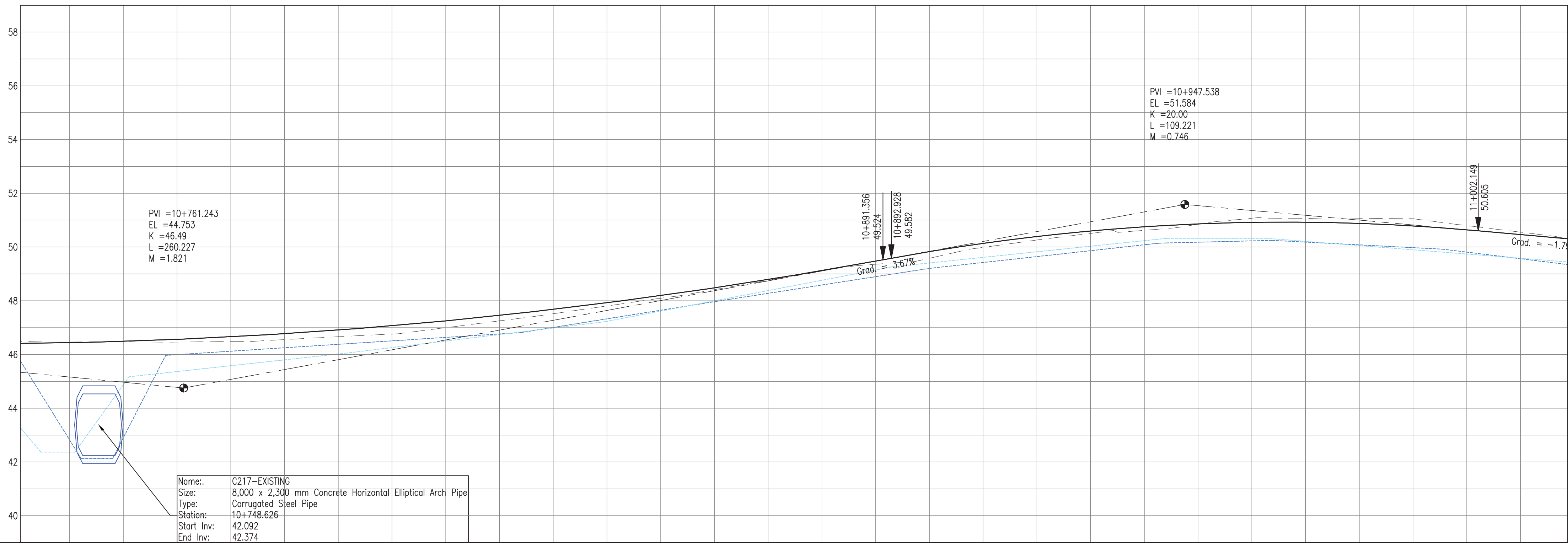
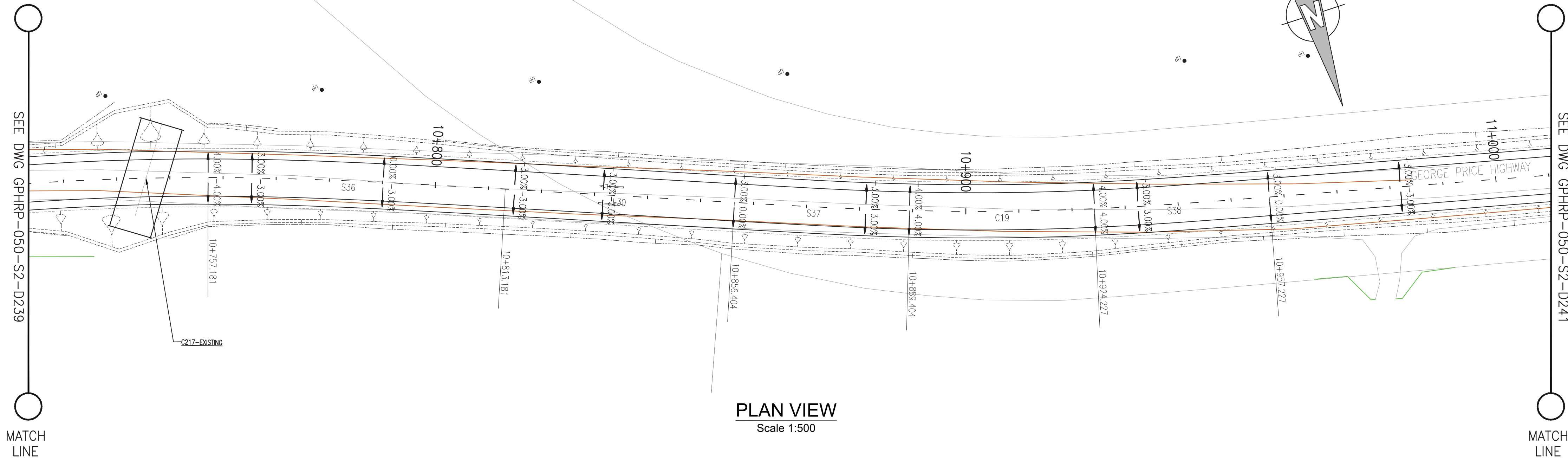
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

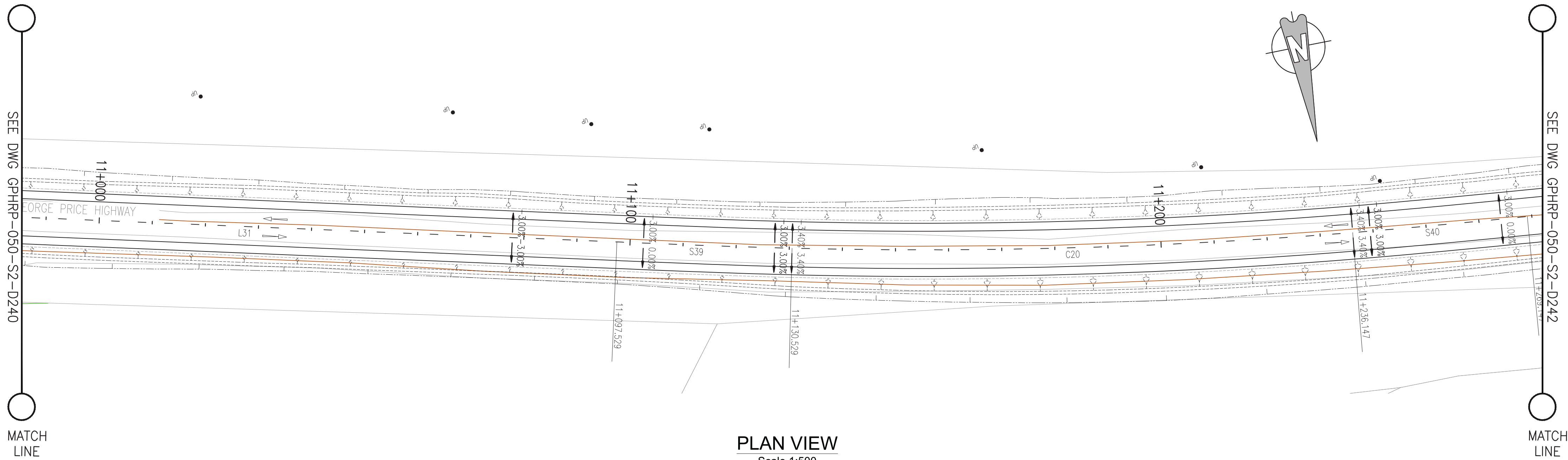
PROFILE VIEW

Scale 1:500



PROPOSED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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PROFILE VIEW
Scale 1:500



Notes:

- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
- All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
- All dimensions in meters unless otherwise noted.
- All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

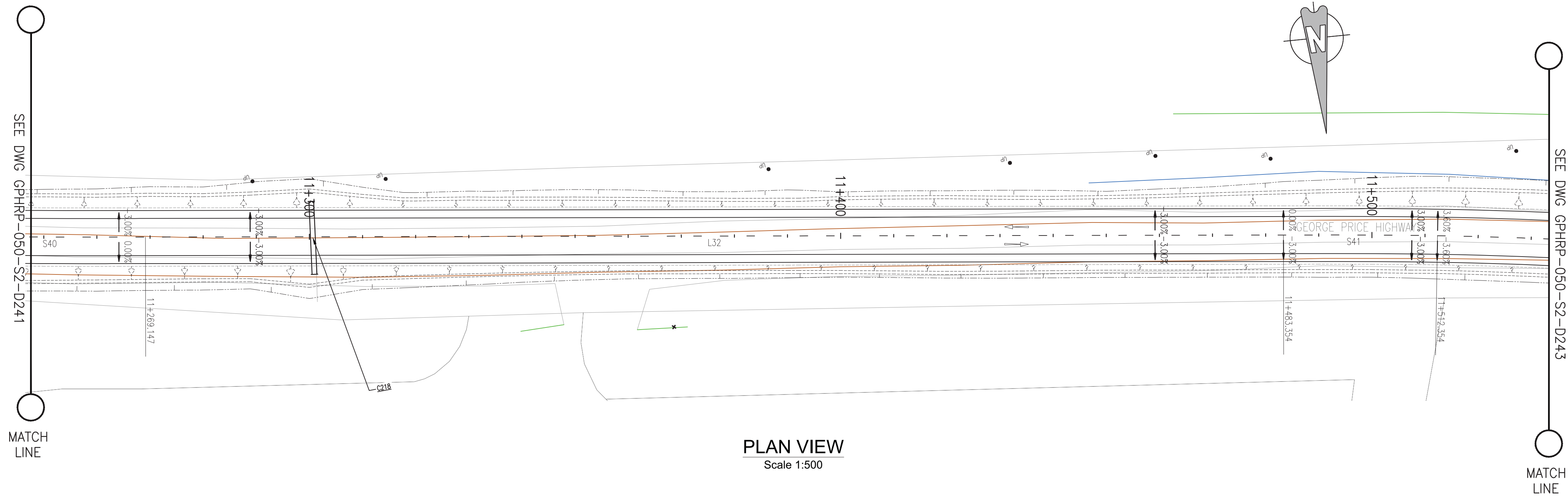
PLAN & PROFILE SEC. 2 - STA. 11+004 TO 11+266

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D241** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1

PROPOSED	50.64	50.46	50.28	50.11	49.95	49.81	49.69	49.60	49.53	49.48	49.45	49.45	49.47	49.50	49.55	49.60	49.64	49.64	49.67	49.67	49.66	49.62	49.59	49.55	49.51	49.48	49.44	49.41	49.37	49.33	
SURVEY	50.80	50.55	50.28	50.01	49.75	49.64	49.52	49.40	49.36	49.35	49.34	49.39	49.44	49.50	49.56	49.62	49.64	49.66	49.66	49.61	49.56	49.50	49.42	49.34	49.29	49.25	49.20	49.17	49.12		
HORIZ. ALIGN.	D=140.30										CL=33.00					R=1000.00 L=105.62										CL=33.00					
VERT. ALIGN.	L=24.18 G=-1.794%			K=45.000 R=4500.00										L=23.62 G=0.479%			K=52.000 R=5200.00					L=121.68 G=-0.362%									
STATION	11+000	11+010	11+020	11+030	11+040	11+050	11+060	11+070	11+080	11+090	11+100	11+110	11+120	11+130	11+140	11+150	11+160	11+170	11+180	11+190	11+200	11+210	11+220	11+230	11+240	11+250	11+260	11+270	11+280		
SUPERELEVATION																															
DRAIN R	49.74	49.58	49.43	49.29	49.25	49.20	49.15	49.10	49.06	49.01	48.96	48.92	48.87	48.82	48.77	48.72	48.67	48.61	48.56	48.51	48.45	48.40	48.35	48.29	48.24	48.19	48.13	48.08	48.02		
DRAIN L	49.81	49.57	49.32	49.07	48.93	48.82	48.74	48.69	48.64	48.58	48.56	48.55	48.54	48.53	48.52	48.51	48.50	48.49	48.48	48.47	48.46	48.45	48.44	48.43	48.42	48.41	48.40	48.39	48.21		

PROFILE VIEW
Scale 1:500



Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

ch2m

Project
George Price Highway
Rehabilitation Project

Drawing Title

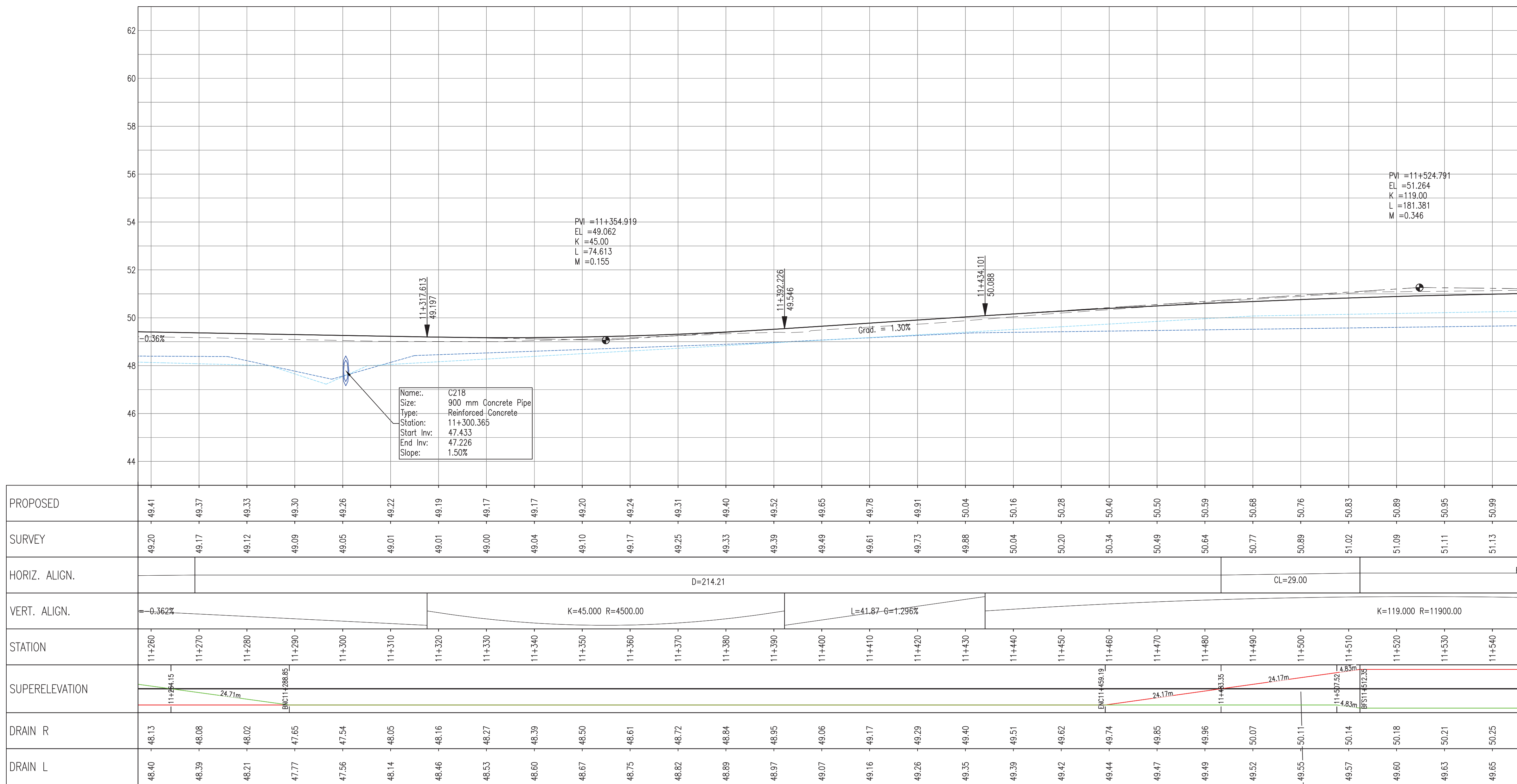
PLAN & PROFILE SEC. 2 - STA. 11+266 TO 11+528

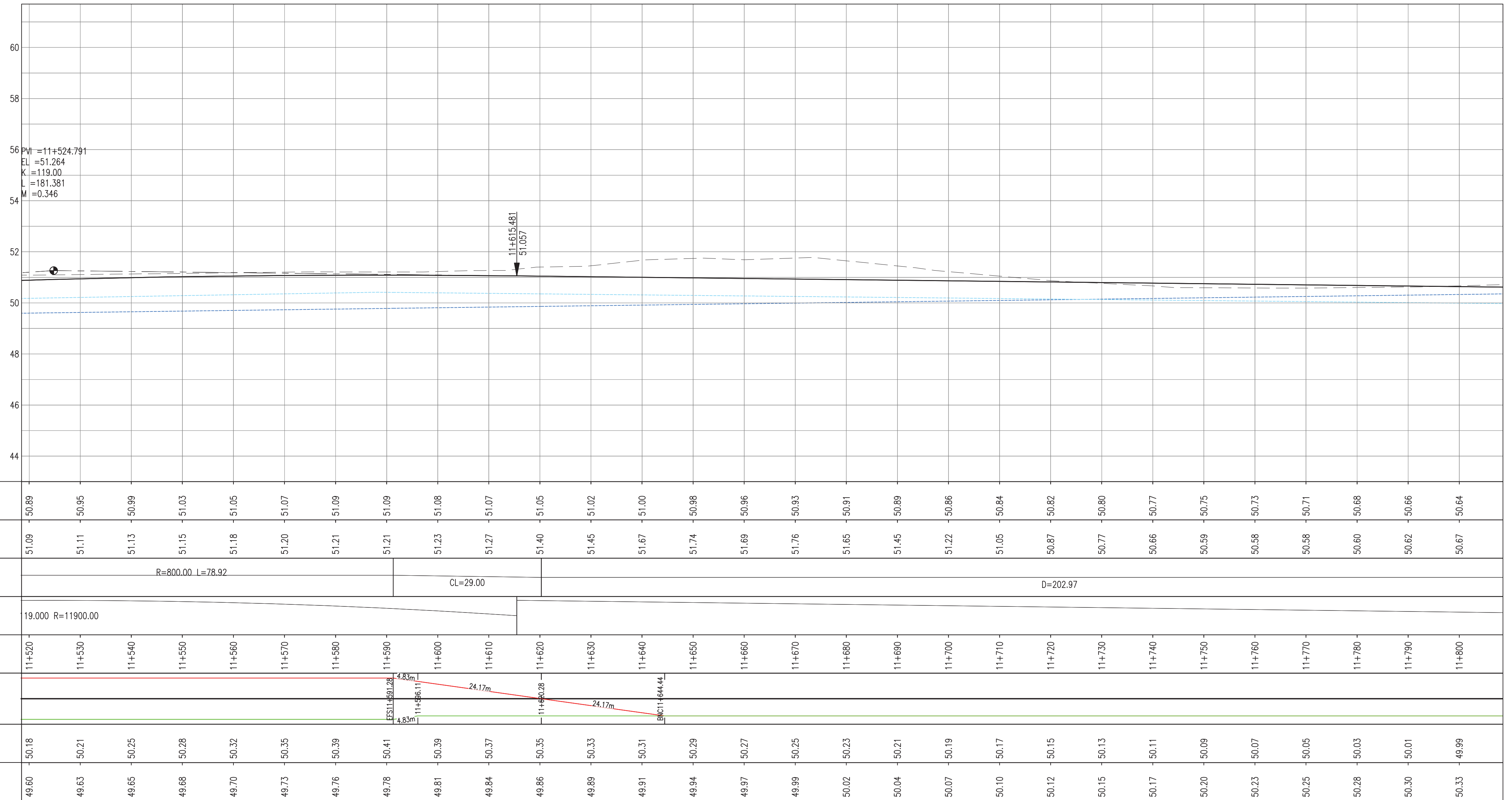
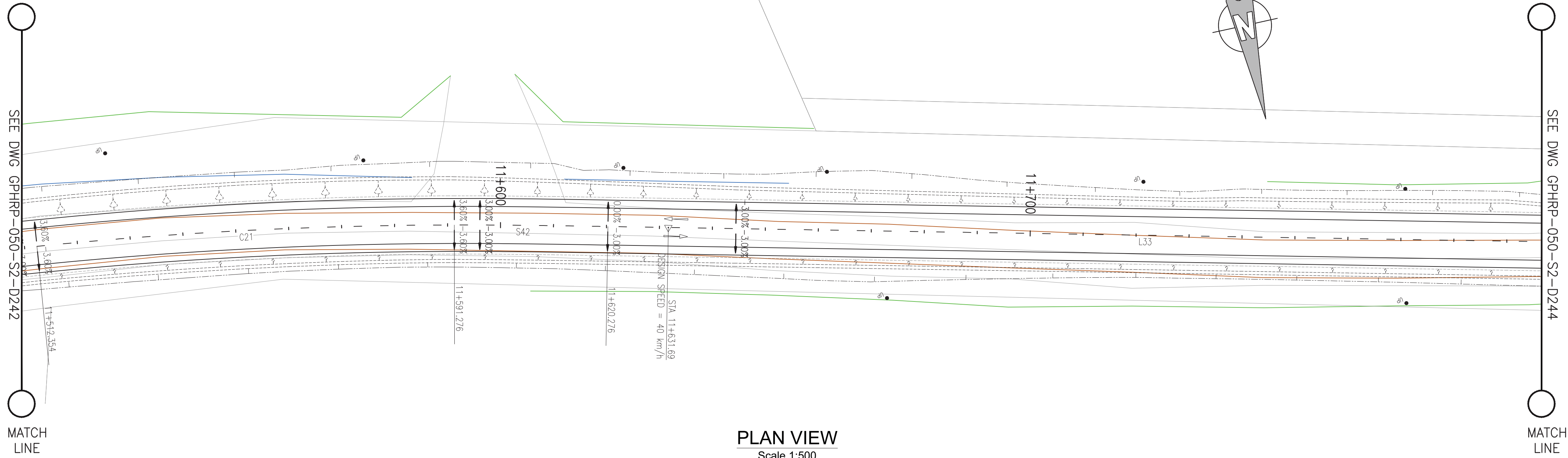
Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D242 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1





PROFILE VIEW
Scale 1:500

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

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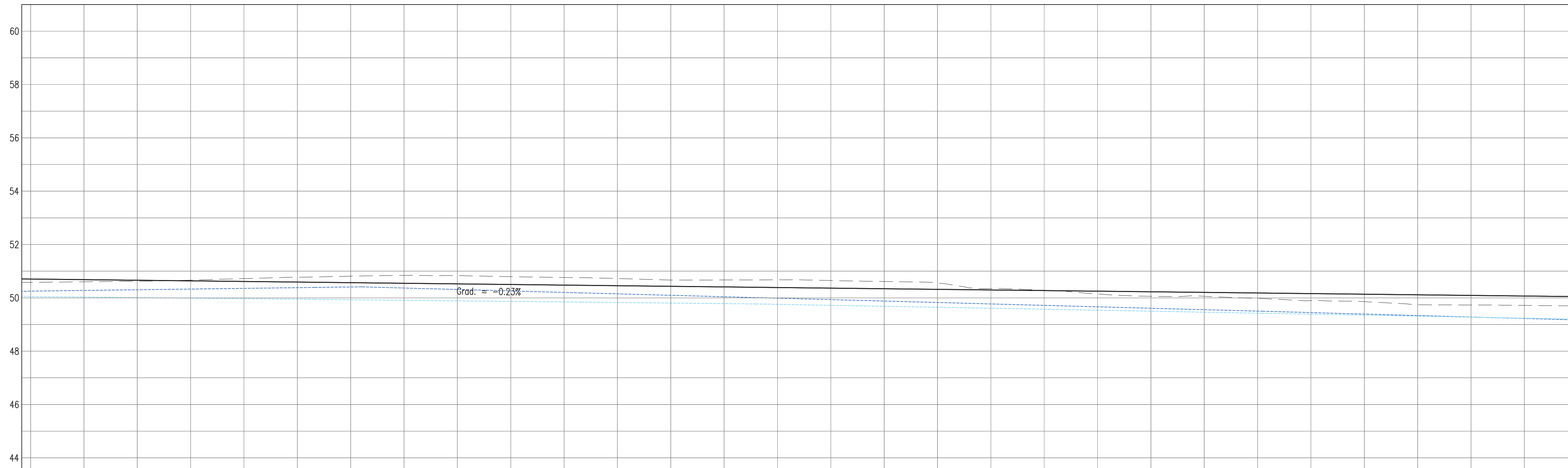
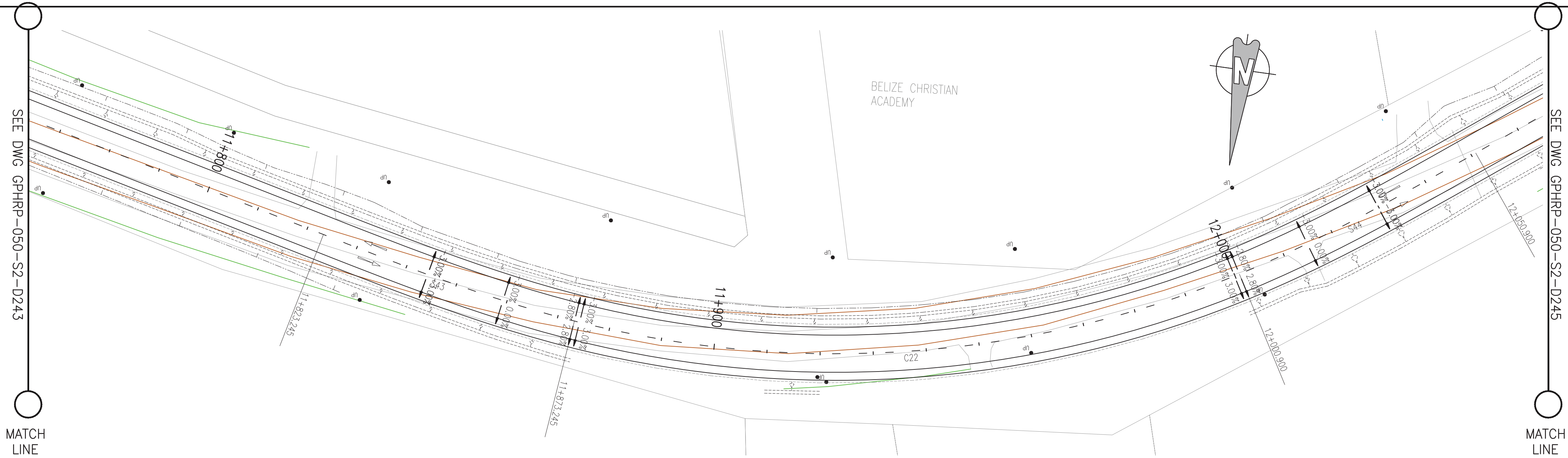
Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 – STA. 11+528 TO 11+790

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D243** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1



Notes:

- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
- All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
- All dimensions in meters unless otherwise noted.
- All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



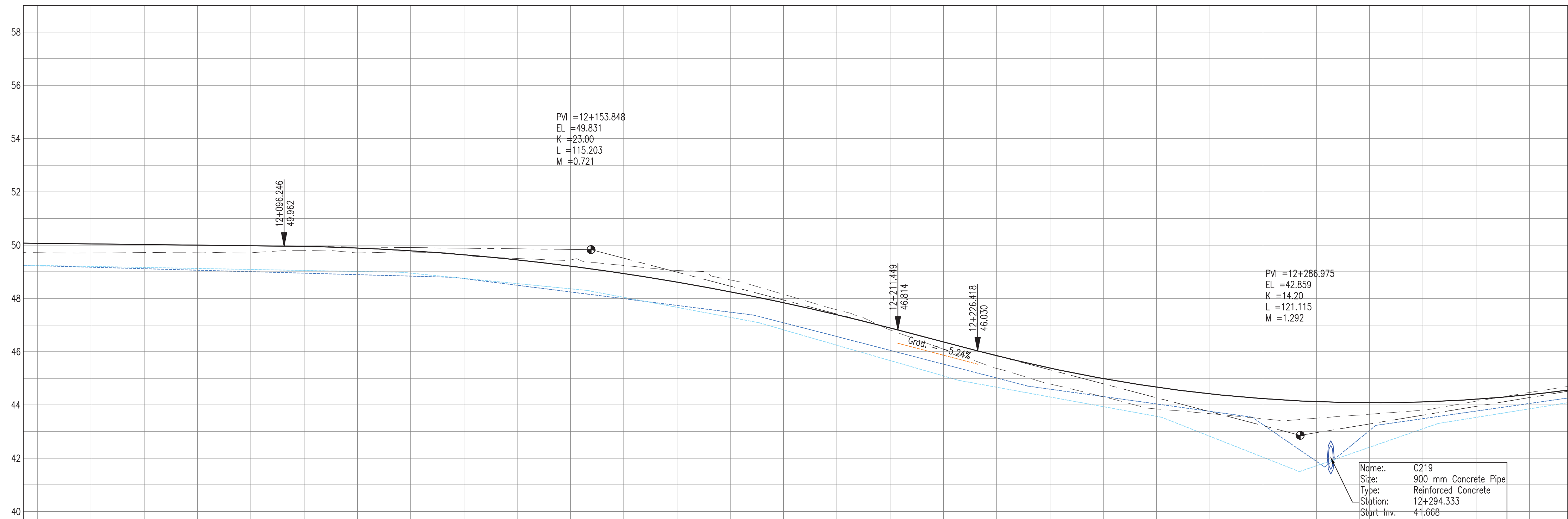
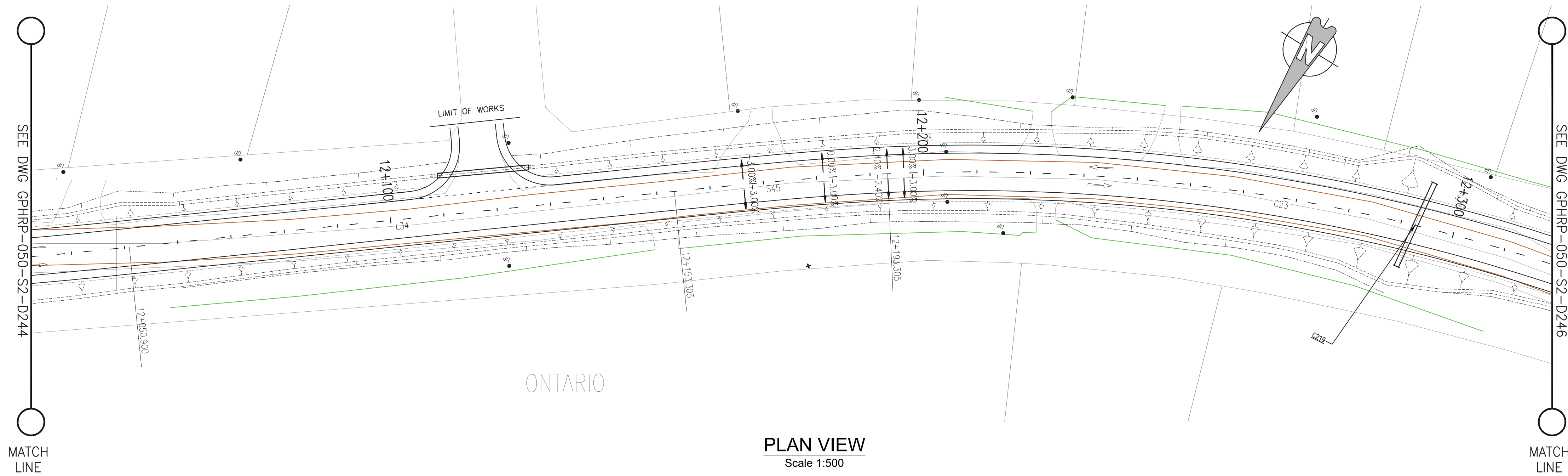
Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 - STA. 11+790 TO 12+052

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D244** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1



PROPOSED	50.07	50.04	50.02	50.00	49.98	49.95	49.89	49.79	49.64	49.45	49.21	48.93	48.61	48.25	47.84	47.39	46.89	46.37	45.85	45.38	44.99	44.67	44.42	44.24	44.12	44.08	44.11	44.21	44.39			
SURVEY	49.72	49.70	49.72	49.73	49.72	49.80	49.71	49.74	49.63	49.50	49.44	49.23	49.05	48.69	48.15	47.57	46.81	46.09	45.37	44.79	44.31	43.85	43.67	43.48	43.50	43.65	43.80	44.14	44.47			
HORIZ. ALIGN.	D=102.41										CL=40.00										R=350.00 L=148.03											
VERT. ALIGN.						K=23.000 R=2300.00															=14.97' G=-5.237%					K=14.195 R=1419.50						
STATION	12+050	12+060	12+070	12+080	12+090	12+100	12+110	12+120	12+130	12+140	12+150	12+160	12+170	12+180	12+190	12+200	12+210	12+220	12+230	12+240	12+250	12+260	12+270	12+280	12+290	12+300	12+310	12+320	12+330			
SUPERELEVATION											<div>12+166.31</div> <div>12+168.31</div> <div>12+170.31</div> <div>12+172.31</div> <div>12+174.31</div> <div>12+176.31</div> <div>12+178.31</div> <div>12+180.31</div> <div>12+182.31</div> <div>12+184.31</div> <div>12+186.31</div> <div>12+188.31</div> <div>12+190.31</div> <div>12+192.31</div> <div>12+194.31</div> <div>12+196.31</div> <div>12+198.31</div> <div>12+200.31</div> <div>12+202.31</div> <div>12+204.31</div> <div>12+206.31</div> <div>12+208.31</div> <div>12+210.31</div> <div>12+212.31</div> <div>12+214.31</div> <div>12+216.31</div> <div>12+218.31</div> <div>12+220.31</div> <div>12+222.31</div> <div>12+224.31</div> <div>12+226.31</div> <div>12+228.31</div> <div>12+230.31</div> <div>12+232.31</div> <div>12+234.31</div> <div>12+236.31</div> <div>12+238.31</div> <div>12+240.31</div> <div>12+242.31</div> <div>12+244.31</div> <div>12+246.31</div> <div>12+248.31</div> <div>12+250.31</div> <div>12+252.31</div> <div>12+254.31</div> <div>12+256.31</div> <div>12+258.31</div> <div>12+260.31</div> <div>12+262.31</div> <div>12+264.31</div> <div>12+266.31</div> <div>12+268.31</div> <div>12+270.31</div> <div>12+272.31</div> <div>12+274.31</div> <div>12+276.31</div> <div>12+278.31</div> <div>12+280.31</div> <div>12+282.31</div> <div>12+284.31</div> <div>12+286.31</div> <div>12+288.31</div> <div>12+290.31</div> <div>12+292.31</div> <div>12+294.31</div> <div>12+296.31</div> <div>12+298.31</div> <div>12+300.31</div> <div>12+302.31</div> <div>12+304.31</div> <div>12+306.31</div> <div>12+308.31</div> <div>12+310.31</div> <div>12+312.31</div> <div>12+314.31</div> <div>12+316.31</div> <div>12+318.31</div> <div>12+320.31</div> <div>12+322.31</div> <div>12+324.31</div> <div>12+326.31</div> <div>12+328.31</div> <div>12+330.31</div>																					
DRAIN R	49.24	49.20	49.16	49.12	49.09	49.05	49.01	48.95	48.75	48.56	48.36	48.04	47.66	47.29	46.82	46.24	45.67	45.09	44.66	44.30	43.94	43.57	42.82	42.03	41.72	42.41	43.11	43.53	43.85			
DRAIN L	49.23	49.17	49.12	49.06	49.00	48.95	48.89	48.84	48.74	48.49	48.24	47.99	47.74	47.48	47.08	46.57	46.05	45.53	45.01	44.59	44.32	44.04	43.76	43.26	41.89	43.04	43.49	43.77	44.06			

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

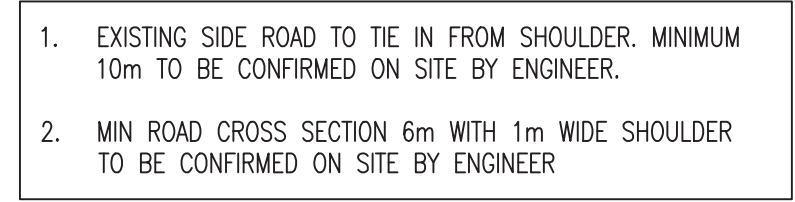
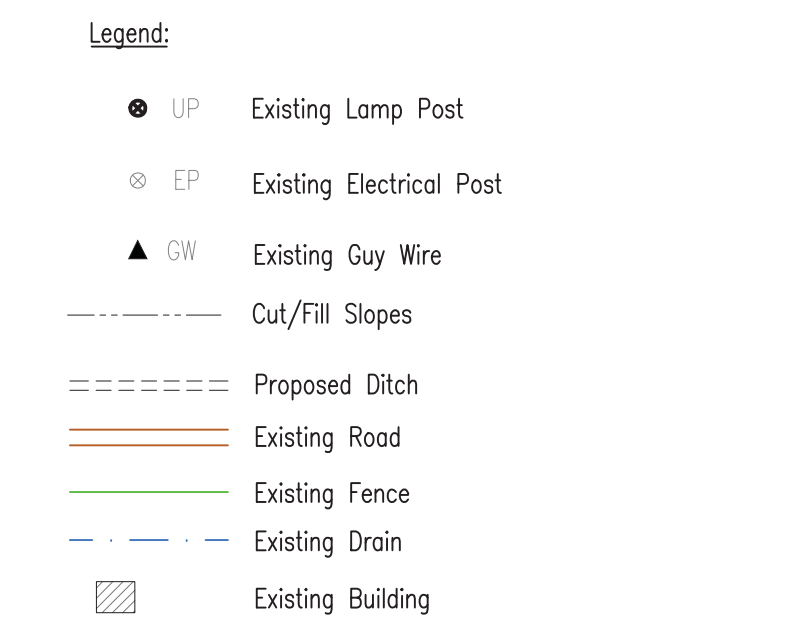
PLAN & PROFILE SEC. 2 - STA. 12+052 TO 12+314

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

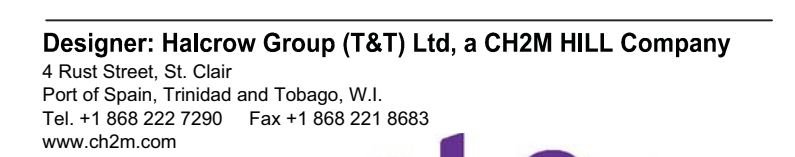
Drawing No. **GPHRP-050-S2-D245** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



Employer: GOVERNMENT OF BELIZE



Project

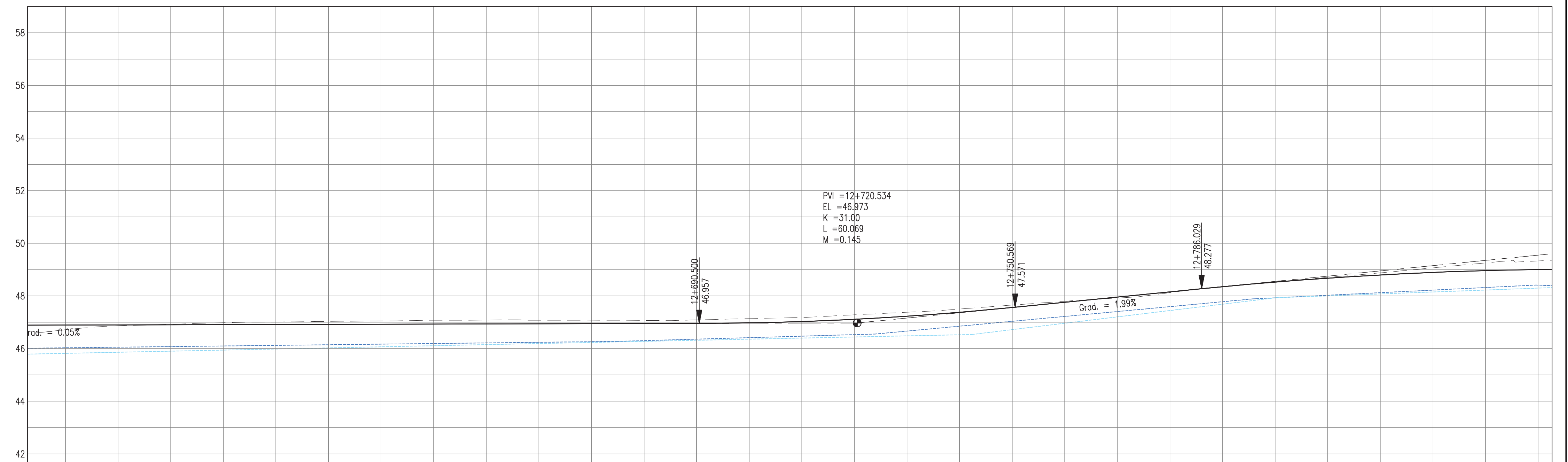
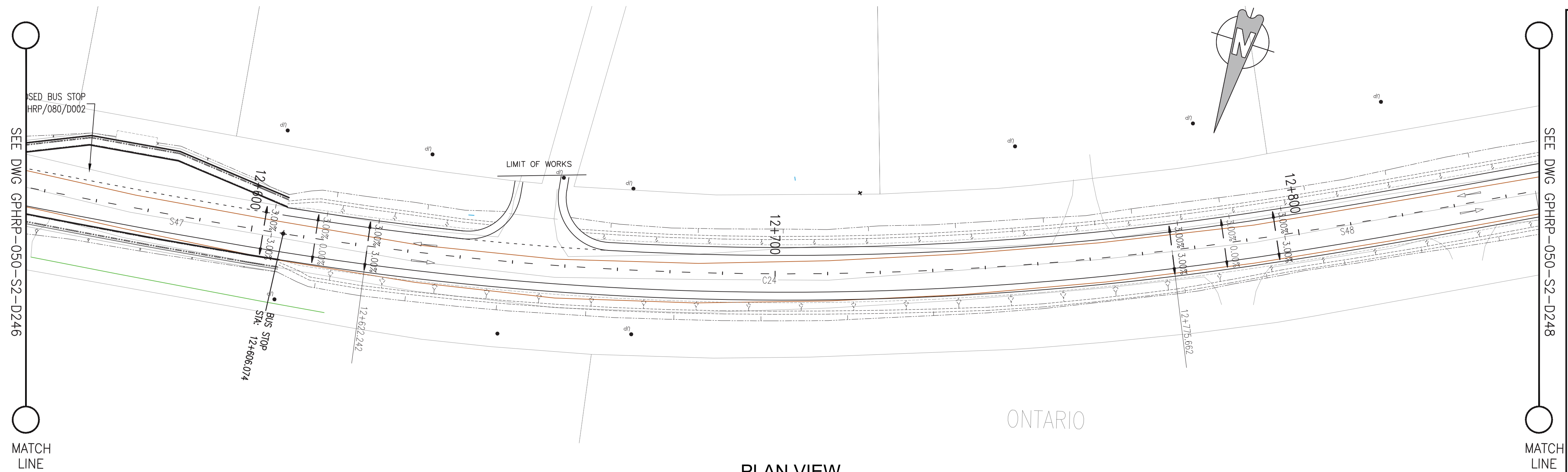
George Price Highway
Rehabilitation Project

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\ GPHRP-050-S2-D239-D258.dwg
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 User and Plot Date : WS007 : 14:1:2017 - 12:1 am



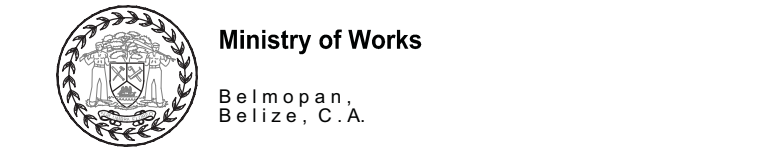
- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.
- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER, MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

Project

George Price Highway Rehabilitation Project

Drawing Title

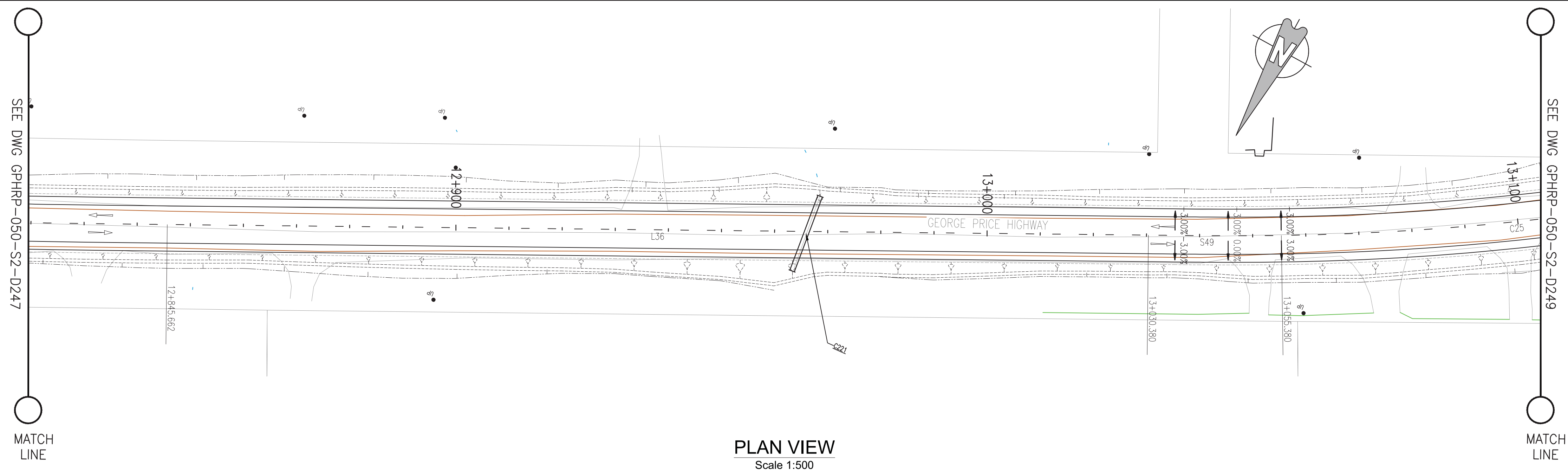
PLAN & PROFILE SEC. 2 - STA. 12+576 TO 12+838

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D247 Revision D

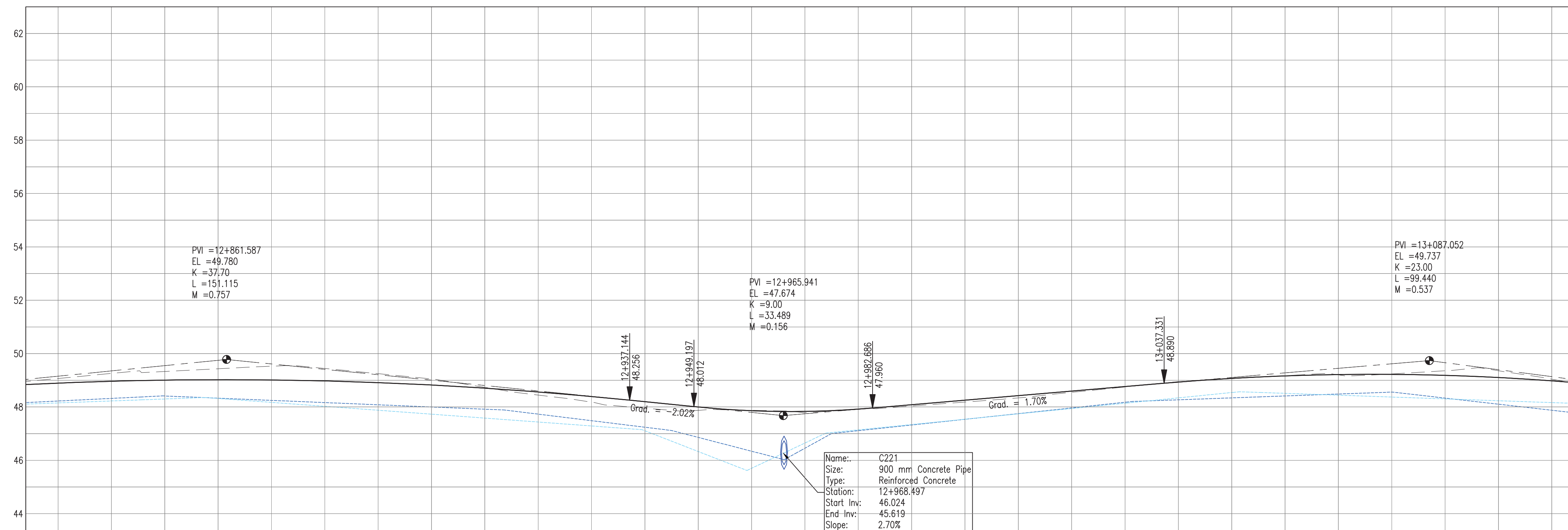
Drawing Scale: As noted at A1
Plot Scale: 1 : 1

Drawing file path & name: H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S2-D246-D258.dwg
Reference file path : H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE : 100% : 1:1217-1218.dwg
User and Plot Date



PLAN VIEW

Scale 1:500












PROPOSED		-48.90	-48.96	-49.01	-49.02	-49.01	-48.98	-48.91	-48.82	-48.71	-48.56	-48.39	-48.20	-48.00	-47.86	-47.83	-47.92	-48.08	-48.25	-48.42	-48.60	-48.77	-48.93	-49.07	-49.16	-49.21	-49.22	-49.18	-49.10	-48.98
SURVEY		49.07	49.26	49.33	49.43	49.53	49.44	49.25	49.05	48.73	48.44	48.19	47.95	47.87	47.87	47.78	47.91	48.03	48.18	48.34	48.55	48.75	48.95	49.06	49.17	49.20	49.24	49.36	49.36	49.04
HORIZ. ALIGN.																														

PROFILE VIEW

Scale 1:500

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

Legend

-  UP Existing Lamp Post
 EP Existing Electrical Post
 GW Existing Guy Wire
 Cut/Fill Slopes
 Proposed Ditch
 Existing Road
 Existing Fence
 Existing Drain
 Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR		07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 868
www.ch2m.com



Project

George Price Highway Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 - STA. 12+838 TO 13+100

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

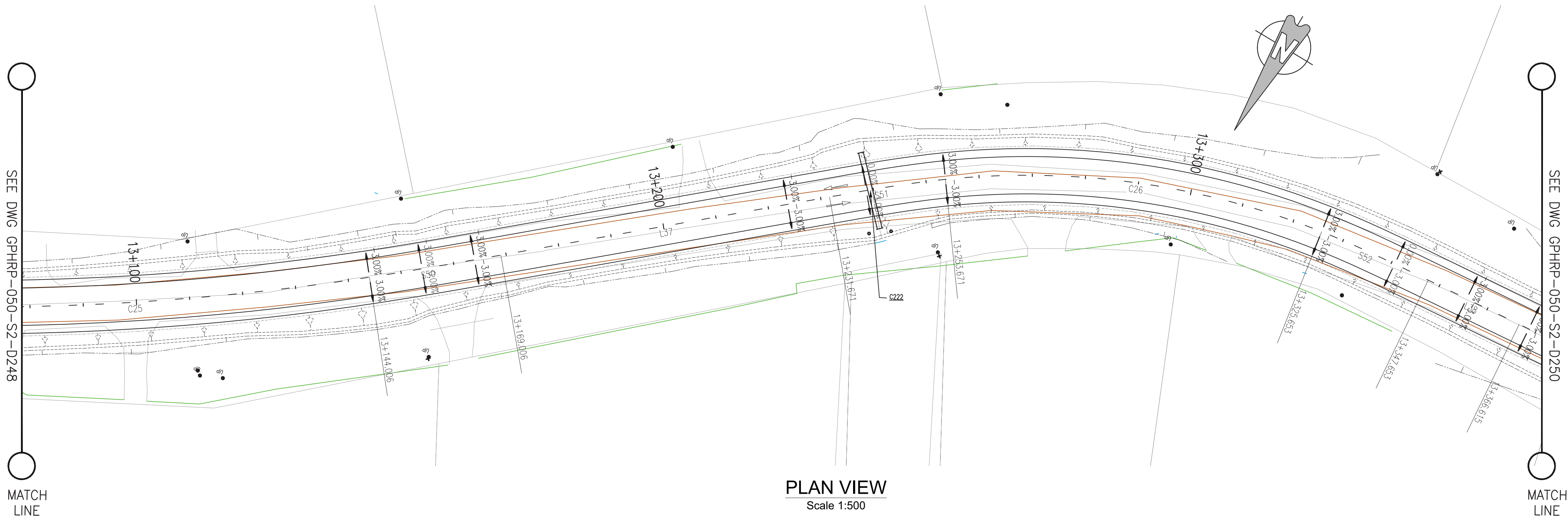
Drawing No.

GPHRP-050-S2-D248

D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



Notes:

- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
- All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
- All dimensions in meters unless otherwise noted.
- All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

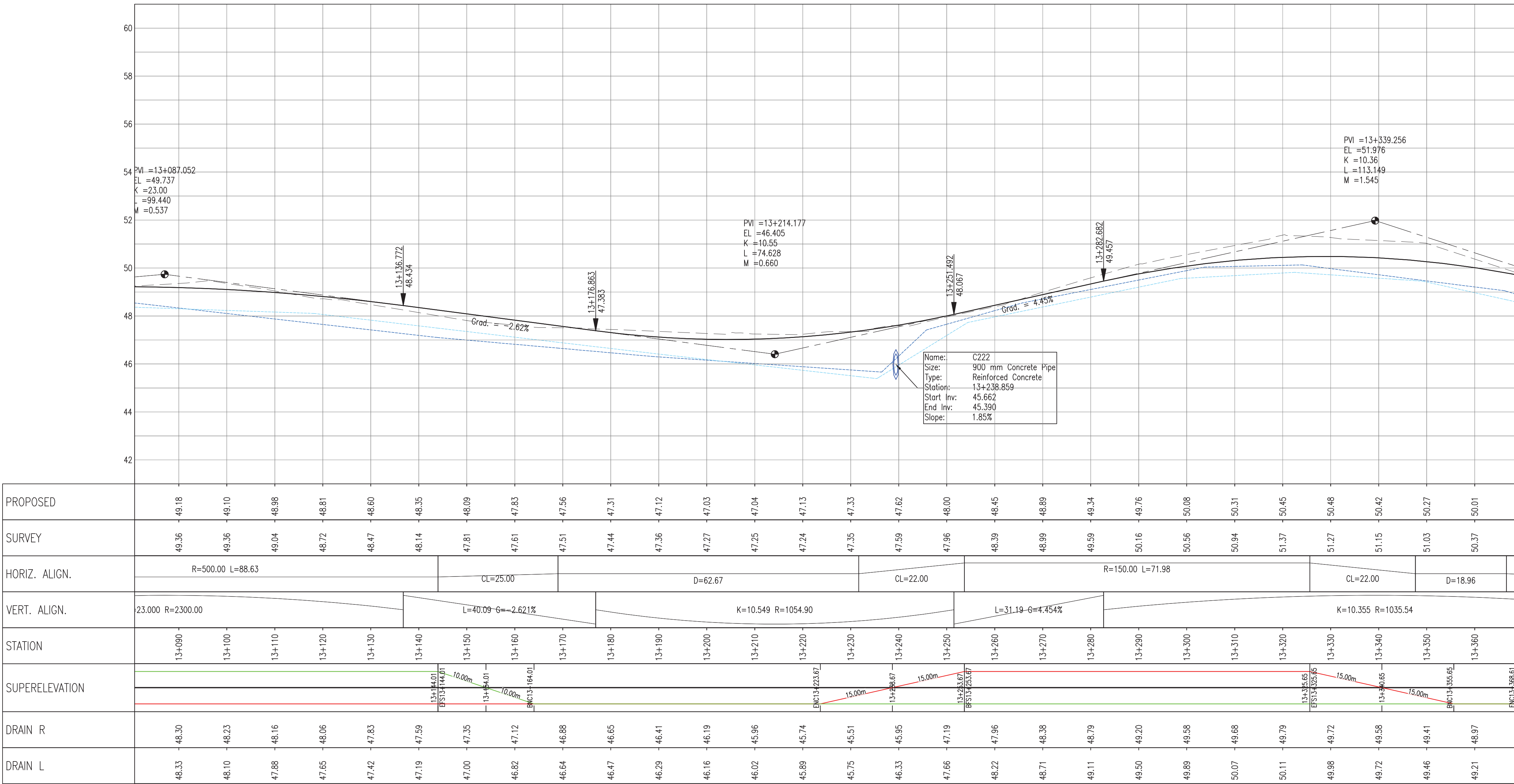
PLAN & PROFILE SEC. 2 - STA. 13+100 TO 13+362

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

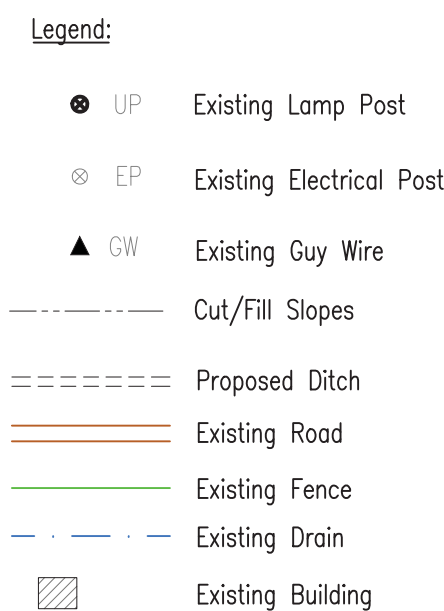
Drawing No. **GPHRP-050-S2-D249** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1





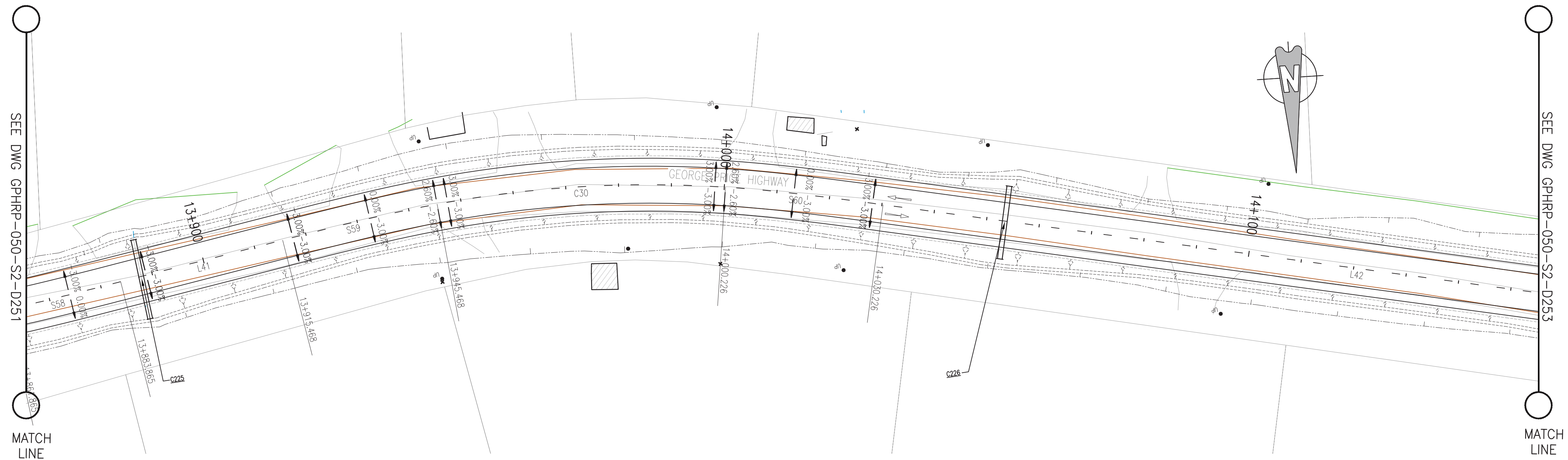


100% FINAL DESIGN

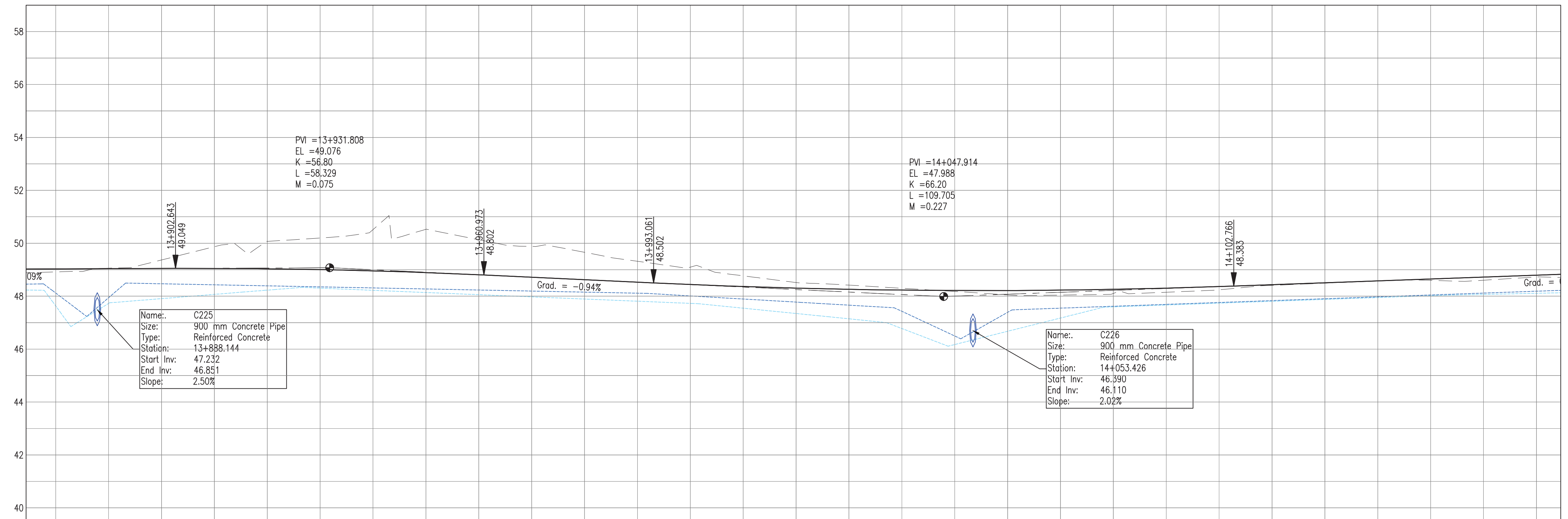
ch2m

Plot Scale: 1 : 1





PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

PROPOSED																																																																																																																				
SURVEY	48.92	-	49.03		49.06	-	49.04		49.37	-	49.05		49.87	-	49.05		50.07	-	49.04		50.20	-	49.01		50.52	-	48.96		50.53	-	48.89		50.13	-	48.81		49.88	-	48.72		49.66	-	48.62		49.32	-	48.53		49.10	-	48.44		48.77	-	48.36		48.51	-	48.30		48.42	-	48.26		48.30	-	48.23		48.18	-	48.21		48.05	-	48.21		48.04	-	48.23		48.10	-	48.26		48.15	-	48.30		48.24	-	48.36		48.41	-	48.44		48.49	-	48.51		48.58	-	48.58		48.60	-	48.65		48.60	-	48.72		48.60	-	48.80	
HORIZ. ALIGN.																																																																																																																				
VERT. ALIGN.																																																																																																																				
STATION	13+880		13+890		13+900		13+910		13+920		13+930		13+940		13+950		13+960		13+970		13+980		13+990		14+000		14+010		14+020		14+030		14+040		14+050		14+060		14+070		14+080		14+090		14+100		14+110		14+120		14+130		14+140		14+150		14+160																																																											
SUPERELEVATION																																																																																																																				
DRAIN R	47.63		47.73		47.91		48.07		48.23		48.30		48.22		48.14		48.06		47.97		47.89		47.81		47.73		47.55		47.35		47.14		46.78		46.17		46.67		47.17		47.59		47.67		47.74		47.81		47.88		47.95		48.02		48.07		48.11																																																											
DRAIN L	48.12		47.94		48.47		48.43		48.39		48.35		48.31		48.27		48.23		48.19		48.15		48.11		48.01		47.89		47.78		47.66		47.43		46.50		47.39		47.55		47.62		47.69		47.76		47.83		47.90		47.97		48.05		48.12		48.19																																																											

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

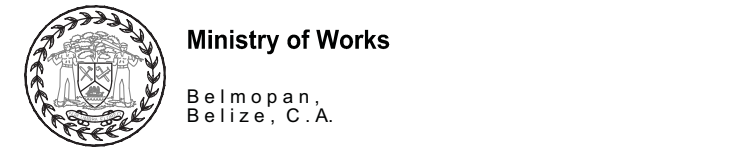
- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 – STA. 13+886 TO 14+148

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

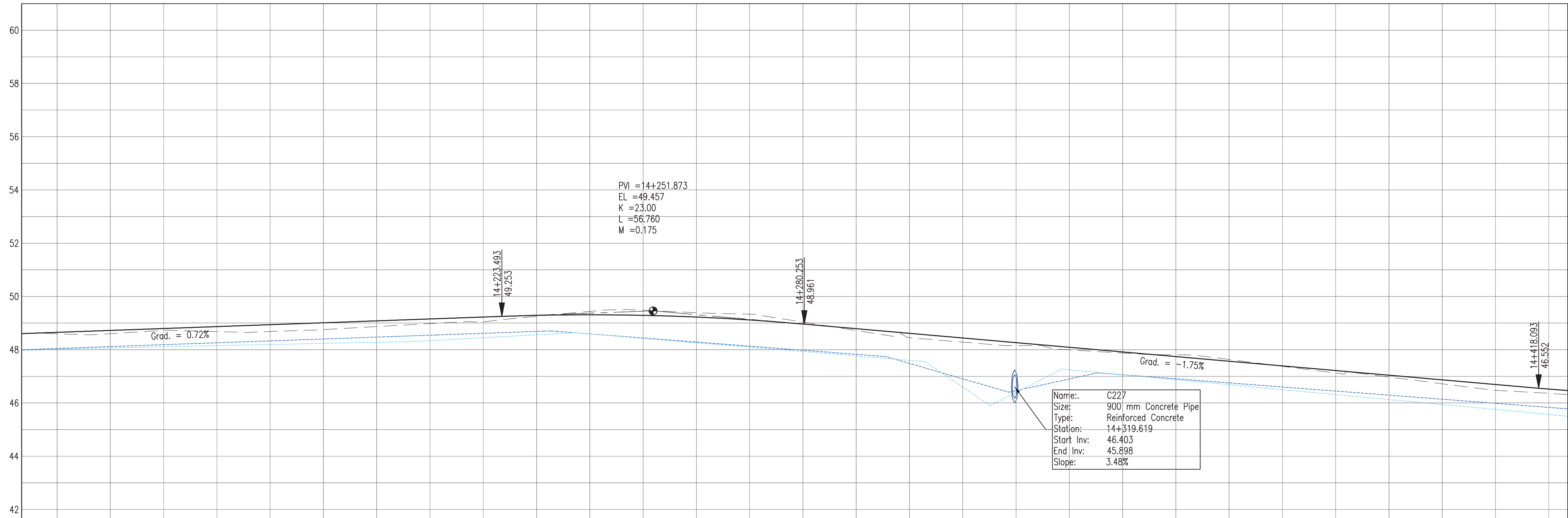
Drawing No.	Revision
GPHRP-050-S2-D252	D

Drawing Scale: As noted at A1
Plot Scale: 1 : 1

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X-reference file path: H:\Belize\George Price Highway\ACAD\SECTION 2\PLAN&PROFILE\100% Design\GPHRP-050-S2-D252-D252.dwg
User and Plot Date: 17/05/2017 14:12:17

SEE DWG GPHRP-050-S2-D252

MATCH LINE



PLAN VIEW
Scale 1:500

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

ch2m

Project
George Price Highway
Rehabilitation Project

Drawing Title

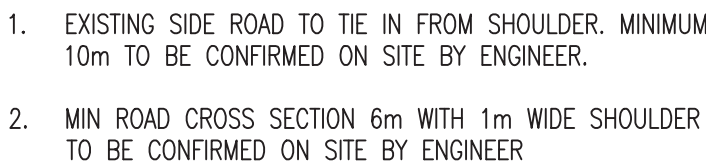
PLAN & PROFILE SEC. 2 - STA. 14+148 TO 14+410

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D253** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1

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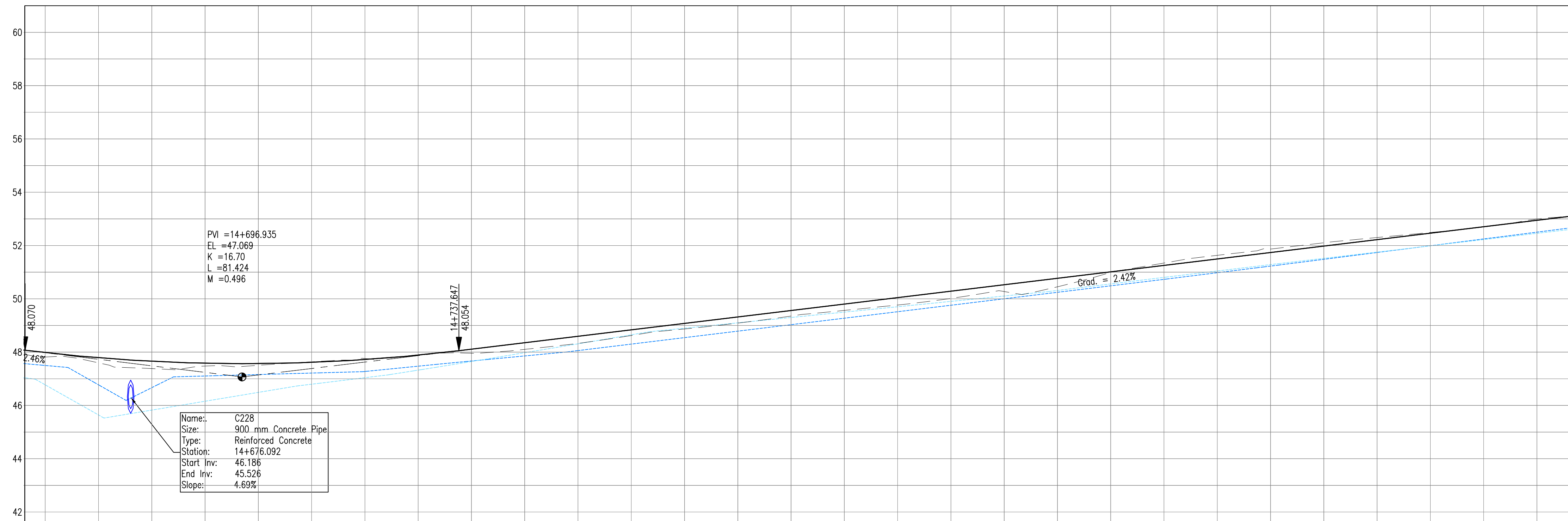
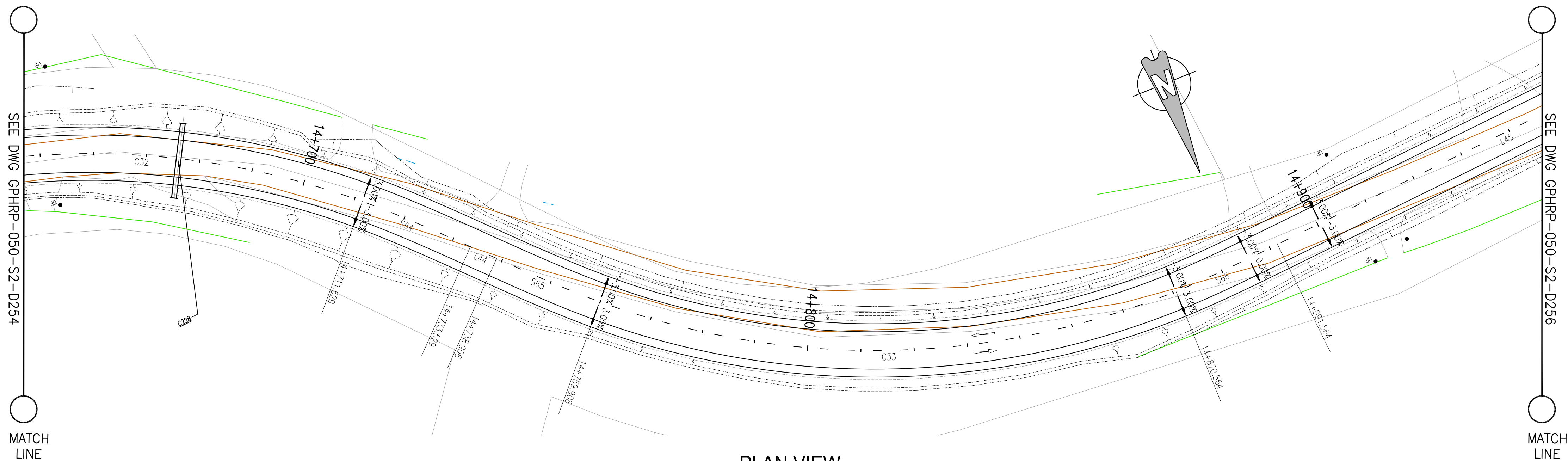
PROFILE VIEW
Scale 1:500



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Plot Scale: 1 : 1





100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	10.10.16	100% FINAL DESIGN
B	KA	KN	MS	07.07.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



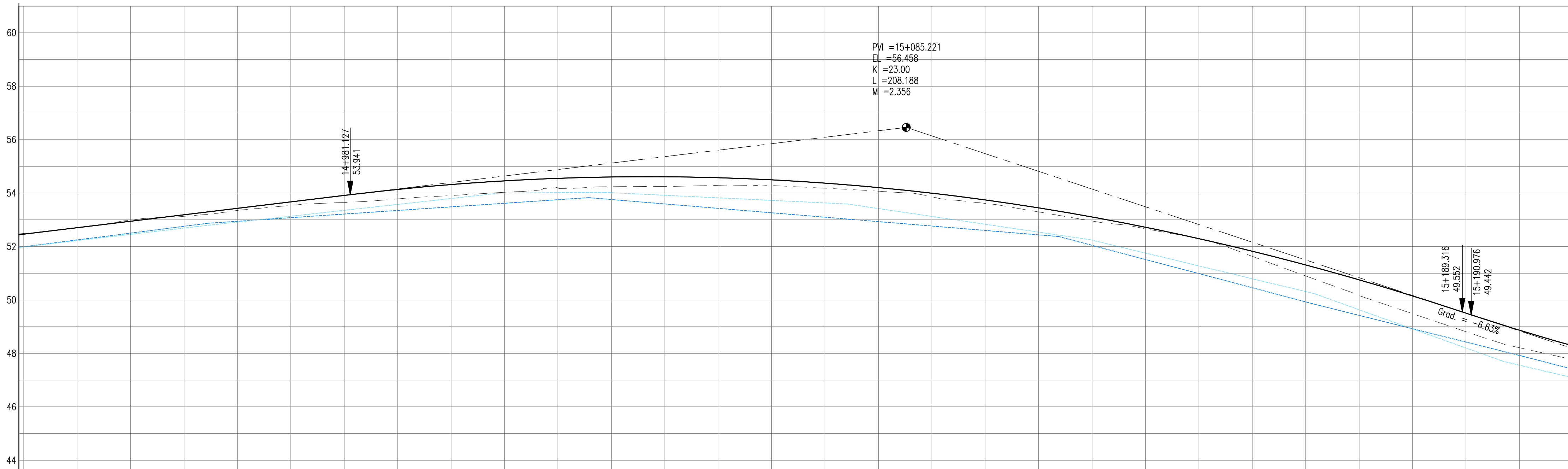
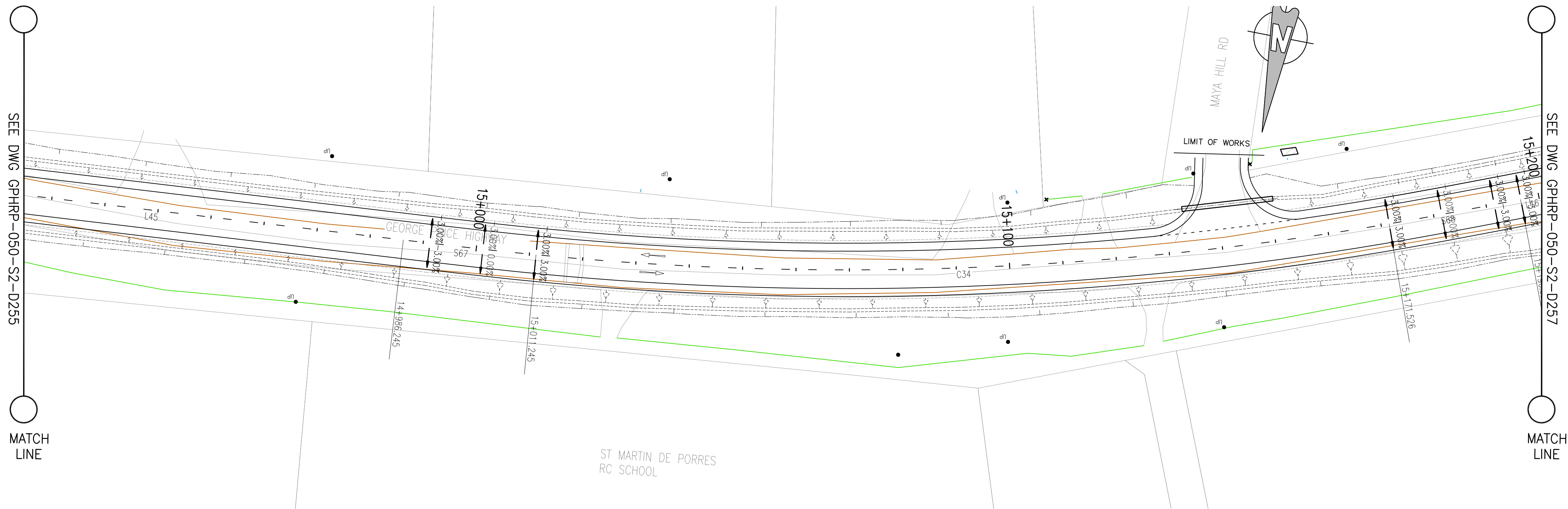
Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 - STA. 14+672 TO 14+934

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S2-D255
Revision D
Drawing Scale: As noted at A1
Plot Scale: 1 : 1



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- Notes:
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 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	10.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 - STA. 14+934 TO 15+196

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016










Drawing No. GPHRP-050-S2-D256
Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

Legend:

-  UP Existing Lamp Post
 EP Existing Electrical Post
 GW Existing Guy Wire
 Cut/Fill Slopes
 Proposed Ditch
 Existing Road
 Existing Fence
 Existing Drain
 Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	22.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

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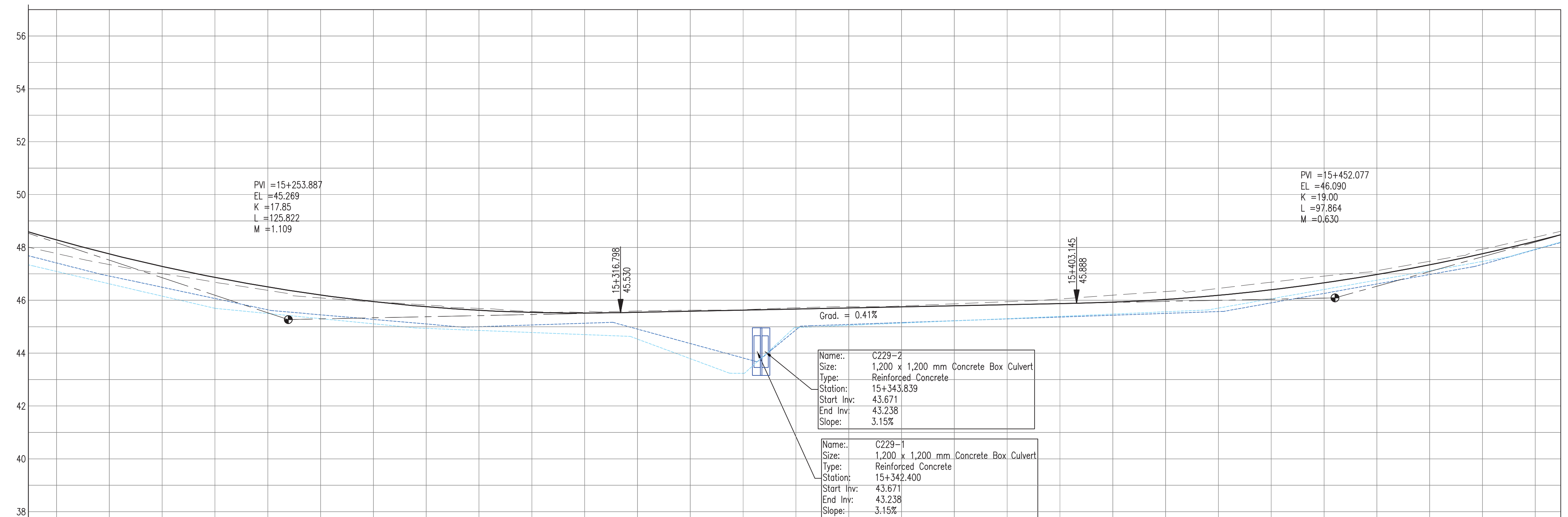
Project

George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 2 - STA. 15+196 TO 15+458

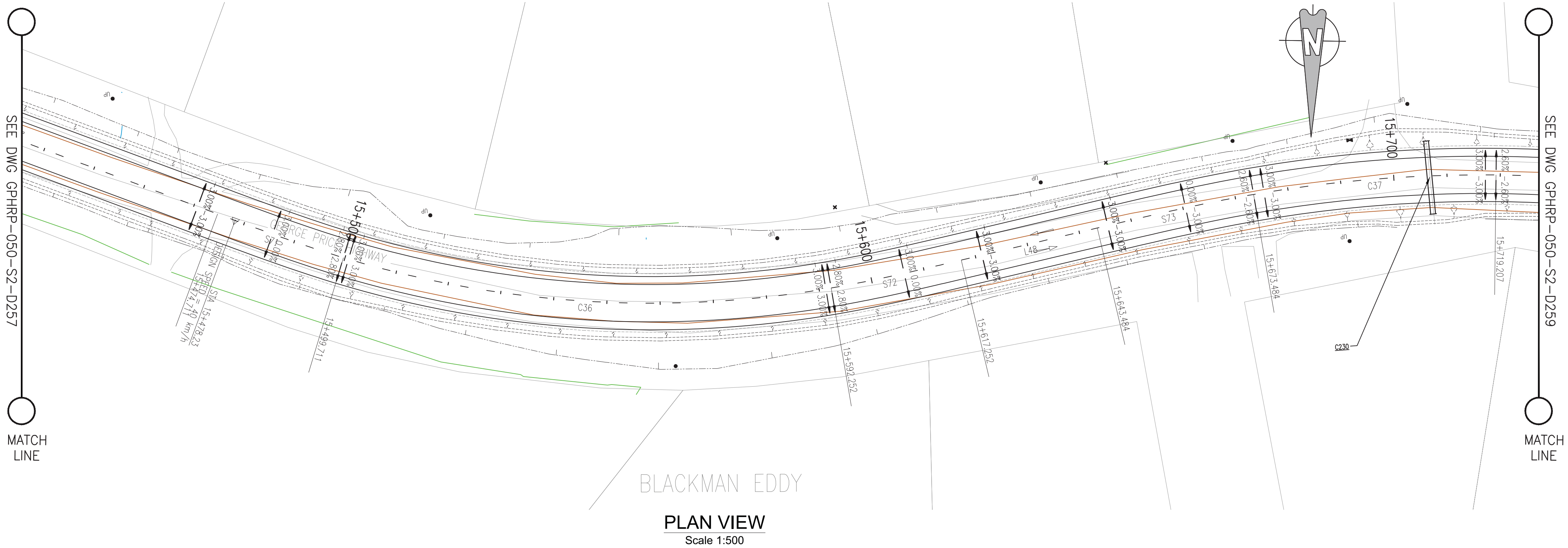
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S2-D257	D
Drawing Scale: As noted at A1	
Plot Scale: 1 : 1	

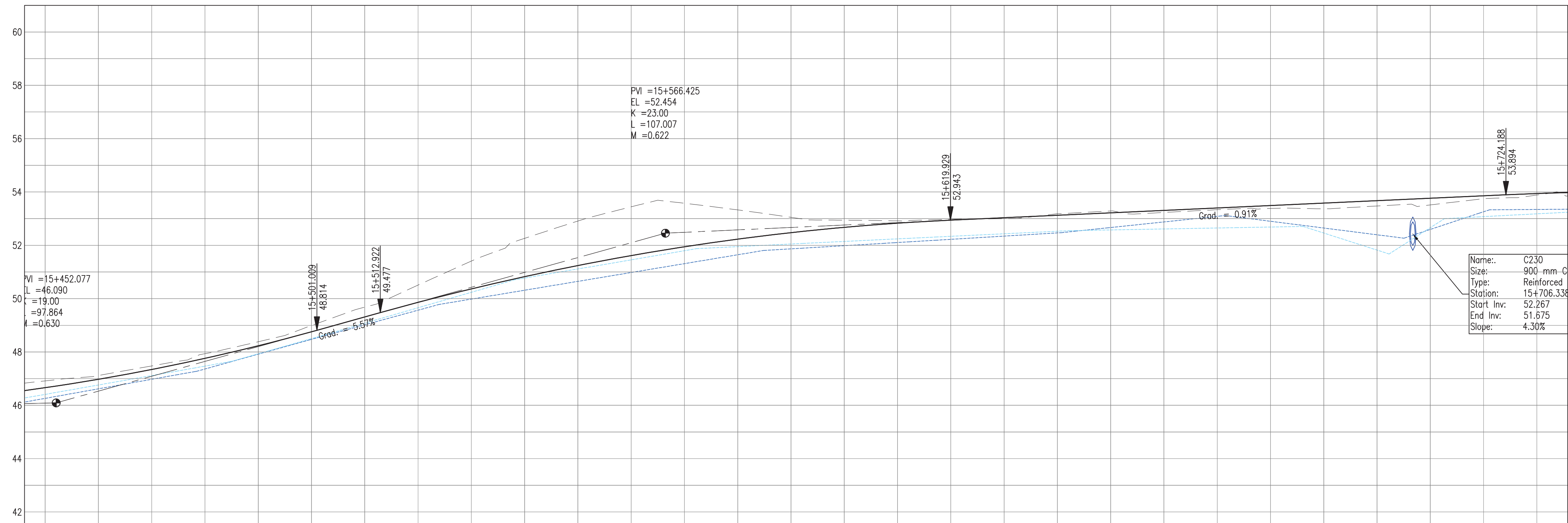


PROPOSED																																
SURVEY																																
HORIZ. ALIGN.																																
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PROFILE VIEW



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

Notes:

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Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
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- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

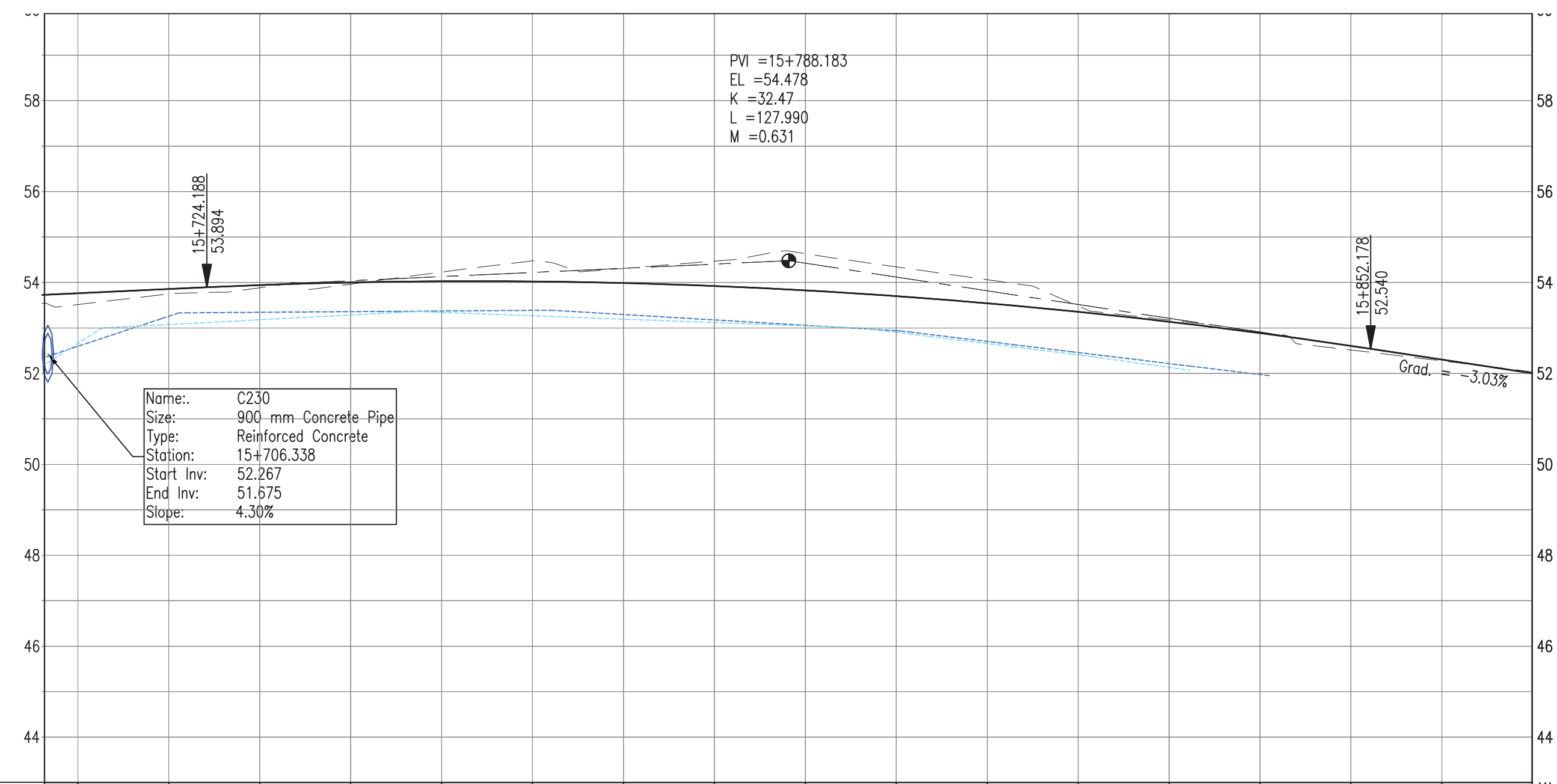
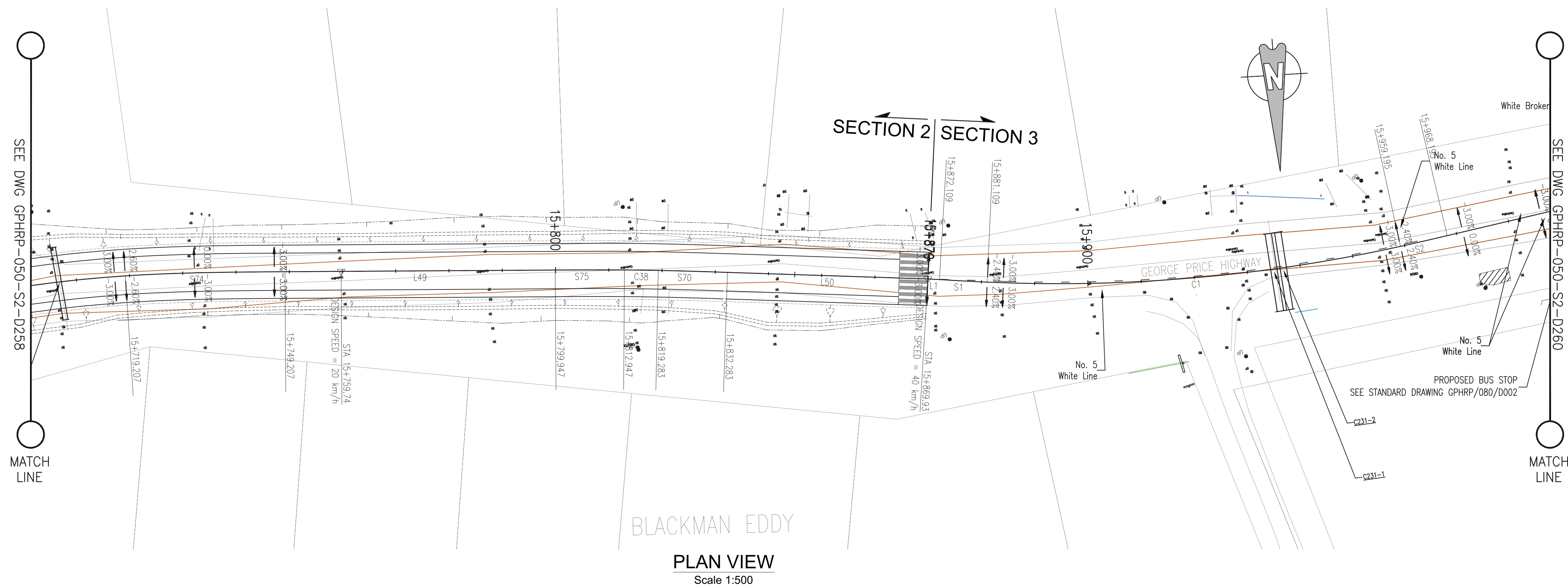
PLAN & PROFILE SEC. 2 - STA. 15+458 TO 15+720

Drawn by KA	Date: 07 JUL, 2016
Checked by MS	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S2-D258	D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



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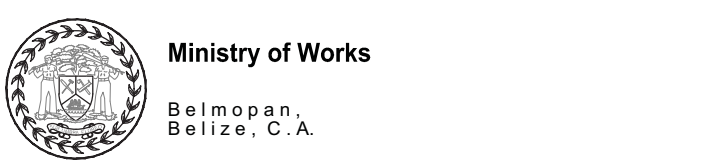
PROFILE VIEW

Scale 1:500

100% FINAL DESIGN

D	KA	MS	MS	23.12.16	100% FINAL DESIGN RESPONSE TO COMMENTS
C	KA	KN	MS	27.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

4 Rust Street, St. Clair

Port of Spain, Trinidad and Tobago, W.I.

Tel: +1 868 222 7290 Fax: +1 868 221 8883

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Project

George Price Highway Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 2 - STA. 15+720 TO 15+870

Drawn by KA Date: 07 JUL, 2016

Checked by MR Date: 07 JUL, 2016

Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S2-D259** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

GEORGE PRICE HIGHWAY REHABILITATION

SECTION 3 STA 15+870 TO 32+489

100% DESIGN PACKAGE

DRAWINGS INDEX

Sheet Numbers	Drawing Titles
GPHRP-050-S3-D300-D364	PLAN AND PROFILE
GPHRP-050-S3-D400-D402	HORIZONTAL & VERTICAL CURVE DATA
GPHRP-050-S3-S0-D001-D035	SETTING OUT – MAINLINE
GPHRP-050-S3-S0-D100-D102	SETTING OUT – SPANISH LOOKOUT JUNCTION
GPHRP-050-S3-W2999-W3148	ROADWAY CROSS SECTIONS
GPHRP-060-S3-C00-D001-D019	TYPICAL CULVERT DETAILS
GPHRP-060-S3-C306A-D001-D003	LITTLE BARTON CREEK CULVERT
GPHRP-070-S3-B03-D001-D009	GARBUT CREEK FLOOD RELIEF WORKS
GPHRP-070-S3-B04-D001-D008	RED CREEK SCOUR PROTECTION
GPHRP-080-S3-D001-D015	TRAFFIC AND DETAILS
GPHRP-080-S3-D300-D301	UTILITIES
GPHRP-060-S3-W03-D001-D002	RETAINING WALL 3
GPHRP-060-S3-W04-D001-D003	RETAINING WALL 4

Client:



THE GOVERNMENT OF BELIZE
MINISTRY OF WORKS

BELMOPAN,
BELIZE, C. A .

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com





- Legend:**
- | | |
|---|--------------------------|
| ● UP | Existing Lamp Post |
| ⊗ EP | Existing Electrical Post |
| ▲ GW | Existing Guy Wire |
| ----- | Cut/Fill Slopes |
| ===== | Proposed Ditch |
| ===== | Existing Road |
| ===== | Existing Fence |
| - . - . - . | Existing Drain |
|  | Existing Building |

- | Superelevation | |
|--------------------------|-----|
| Begin full super | BFS |
| Level crown | LC |
| Low shoulder match | LSM |
| Shoulder breakover | SBO |
| End Shoulder Rolllover | ESR |
| Begin normal crown | BNC |
| Begin Shoulder Rolllover | BSR |
| Begin of alignment | BOA |
| Begin normal shoulder | BNS |
| End full super | EFs |
| End normal crown | ENC |
| Manual | MAN |
| End of alignment | EOA |
| Reverse crown | RC |
| End normal shoulder | ENS |

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	KNH	MS	10.12.16	100% DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

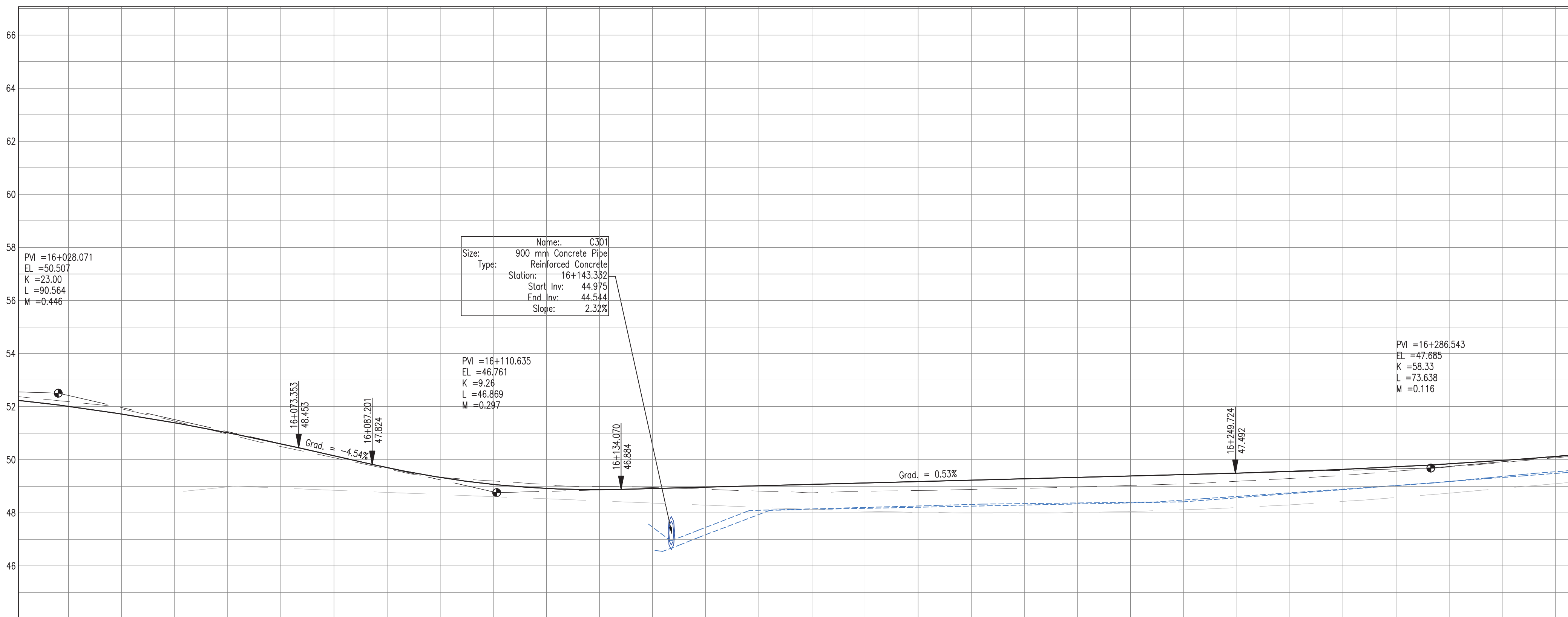
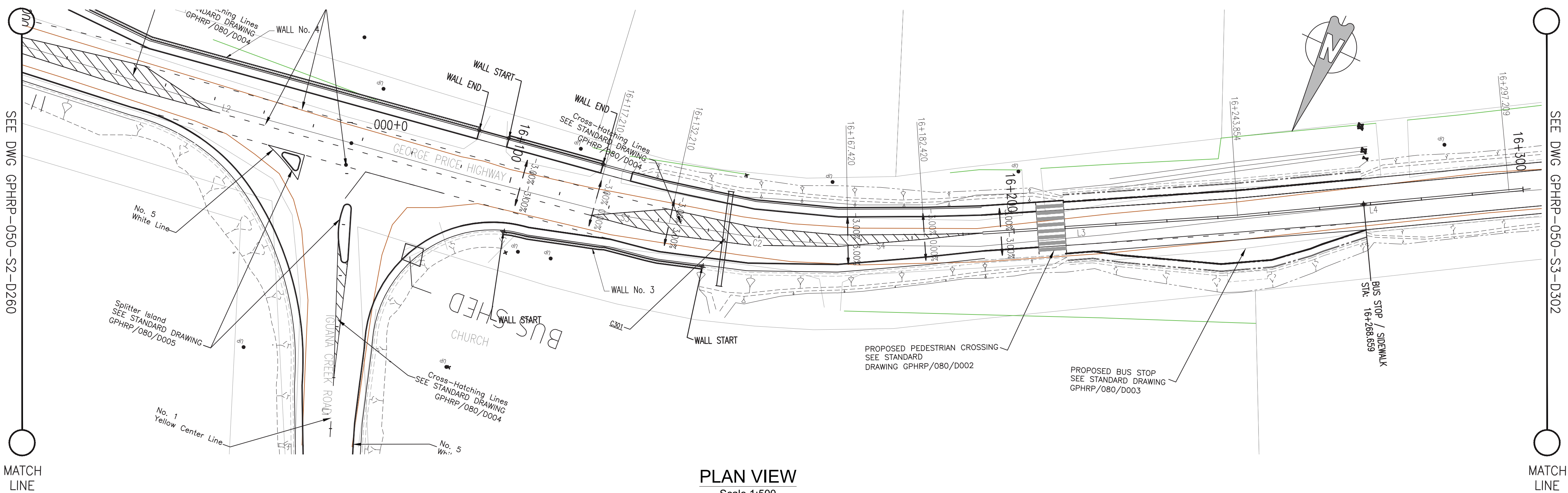


Ministry of Works
Belmopan,
Belize, C.A.

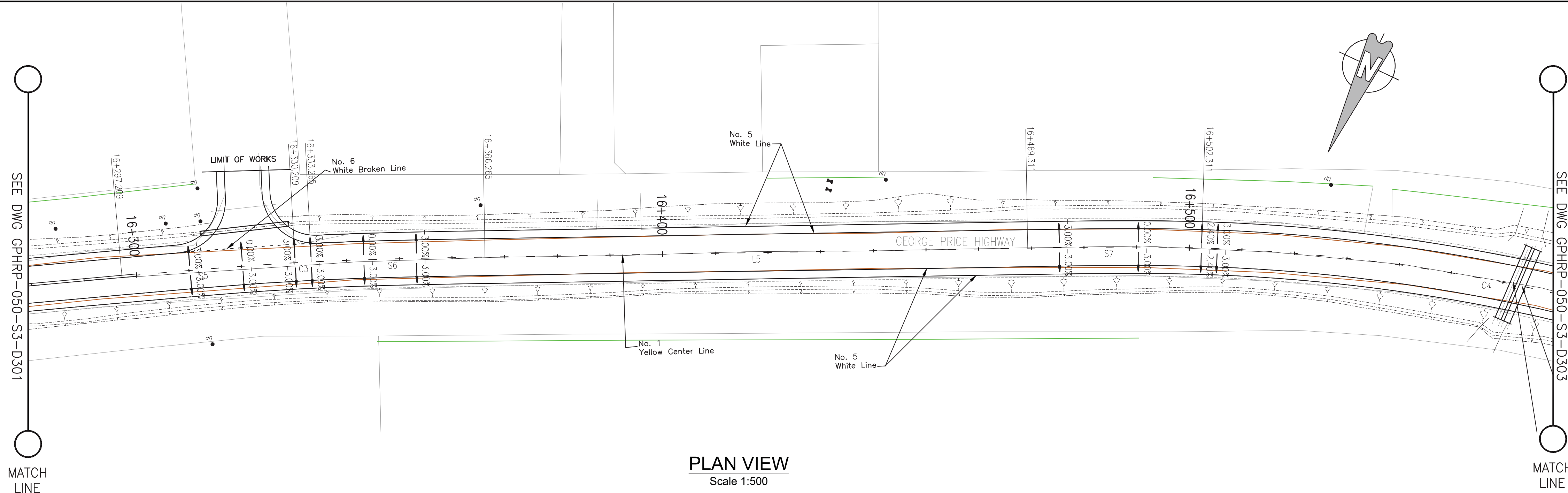
Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
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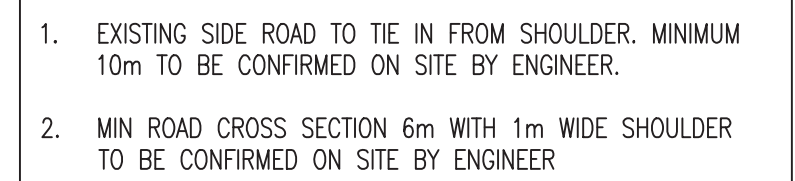
PLAN & PROFILE SEC. 3 - STA. 15+870 TO 16+141

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016
<div> <div>Drawing No.</div> <div>Revision</div> </div>	
<div> <div>GPHRP-050-S3-D300</div> <div>D</div> </div>	
Drawing Scale: As noted at A1	
Plot Scale: 1 : 1	



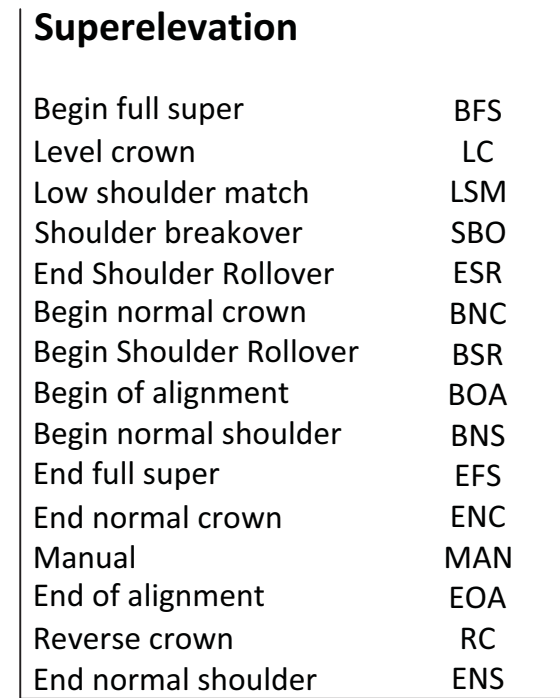
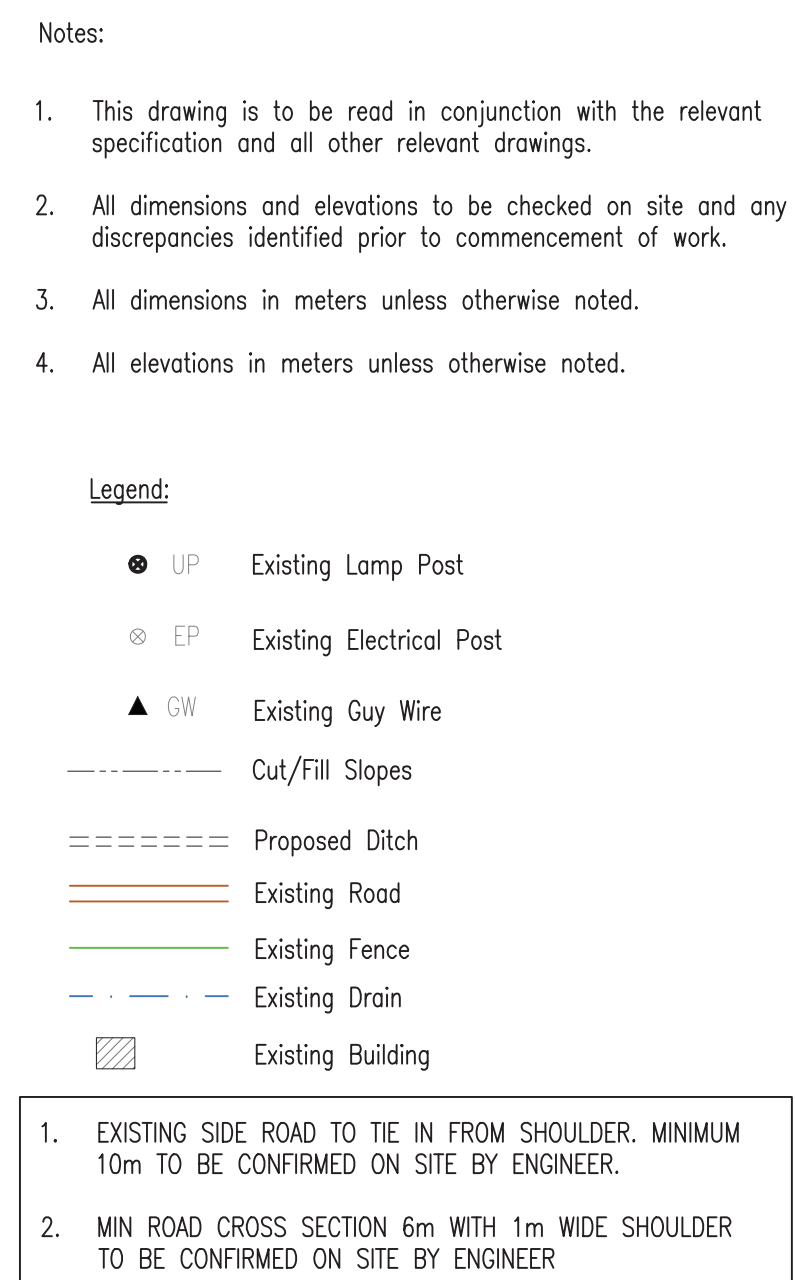
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Plot Scale: 1 : 1





D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	07.07.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description



Ministry of Works
Belmopan,
Belize, C.A.

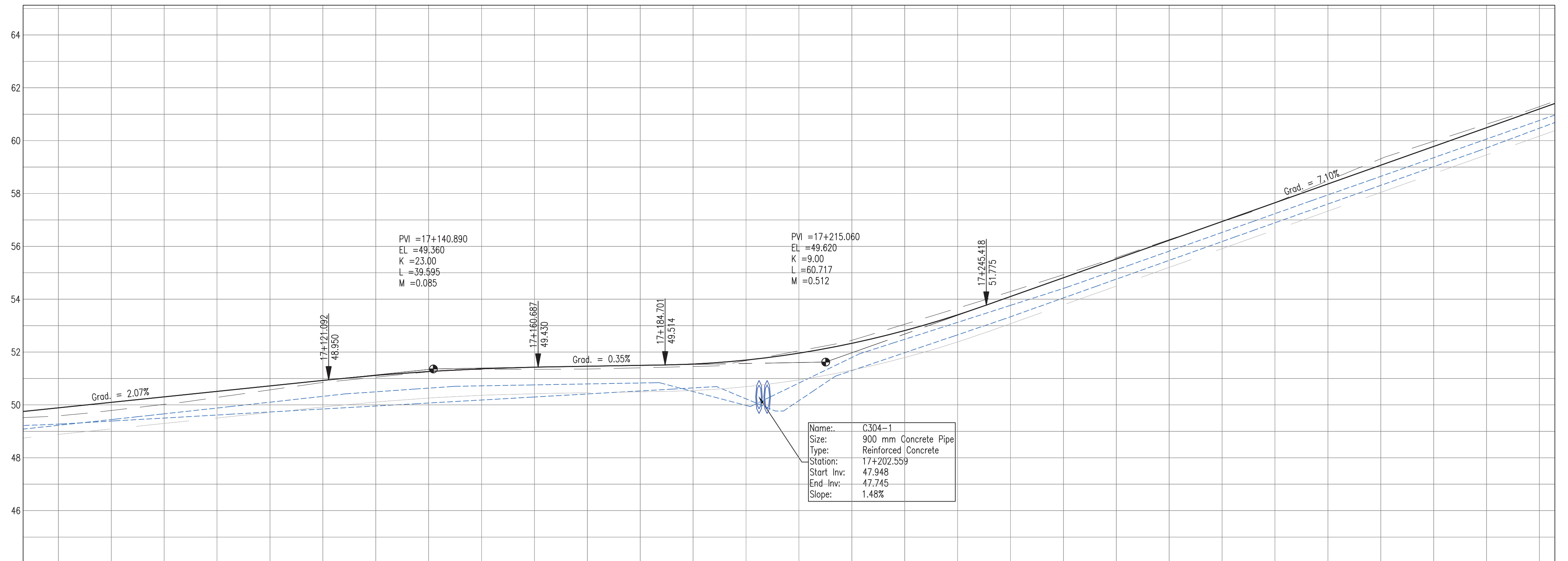
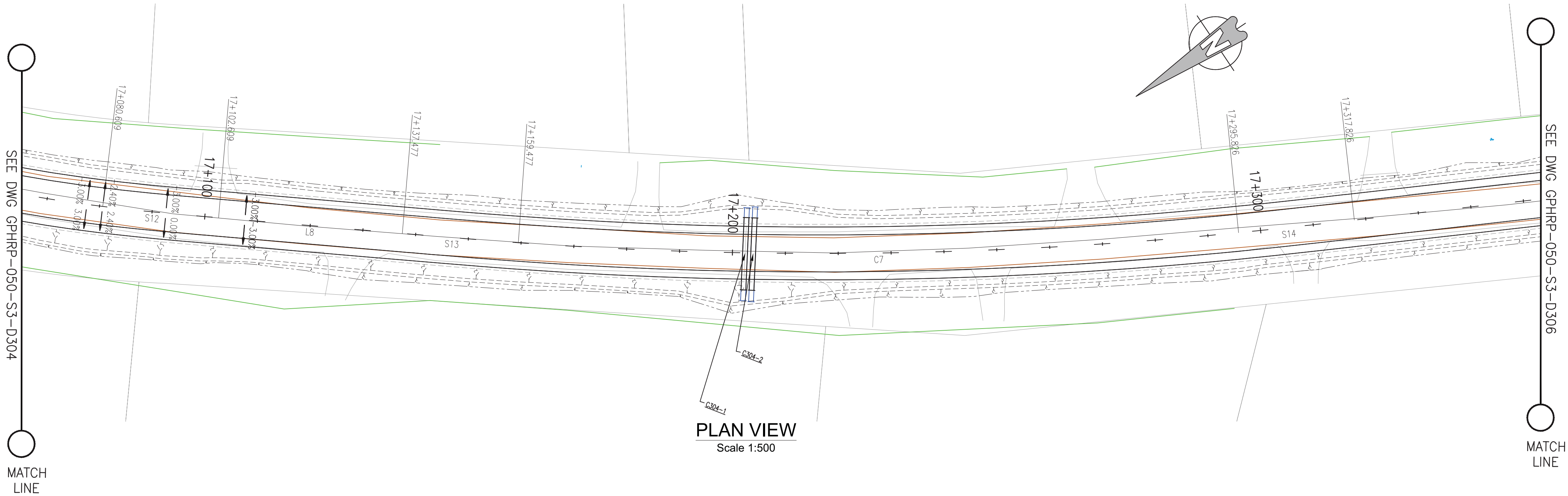
ch2m.

PLAN & PROFILE SEC. 3 - STA.16+827 TO 17+089

Drawing No. **GPHRP-050-S3-D304** Revision **D**

Plot Scale: 1 : 1





PROPOSED	47.89		48.10		48.31		48.51		48.72		48.93		49.12		49.26		49.37		49.43		49.46		49.50		49.55		49.70		49.96		50.33		50.81		51.41		52.10		52.81		53.52		54.23		54.94		55.65		56.36		57.07		57.78		58.49		59.20	
SURVEY	47.59		47.79		48.02		48.28		48.57		48.85		49.05		49.25		49.34		49.35		49.36		49.40		49.45		49.67		50.04		50.44		51.05		51.66		52.29		52.93		53.57		54.25		54.93		55.66		56.48		57.31		57.98		58.62		59.29	
HORIZ. ALIGN.			CL=22.00				D=34.87						CL=22.00				R=800.00 L=136.35																CL=22.00																									
VERT. ALIGN.	L=78.46 G=2.072%										K=23.000 R=2300.00										L=24.01 G=0.351%										K=9.000 R=900.00										L=123.88 G=7.097%																	
STATION	17+070		17+080		17+090		17+100		17+110		17+120		17+130		17+140		17+150		17+160		17+170		17+180		17+190		17+200		17+210		17+220		17+230		17+240		17+250		17+260		17+270		17+280		17+290		17+300		17+310		17+320		17+330		17+340		17+350	
SUPERELEVATION																																																										
DRAIN L	47.23		47.45		47.66		47.88		48.10		48.32		48.50		48.64		48.72		48.76		48.79		48.83		48.85		48.88		48.90		48.92		48.94		48.96		48.98		49.00		49.02		49.04		49.06		49.08		49.10									
DRAIN R	47.27		47.39		47.50		47.62		47.73		47.85		47.96		48.07		48.19		48.30		48.41		48.53		48.64		48.75		48.86		48.97		49.08		49.19		49.30		49.41		49.52		49.63		49.74		49.85		49.96		50.07							

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	08.01.17	100% FINAL DESIGN
C	KA	KWH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project: George Price Highway Rehabilitation Project

Drawing Title

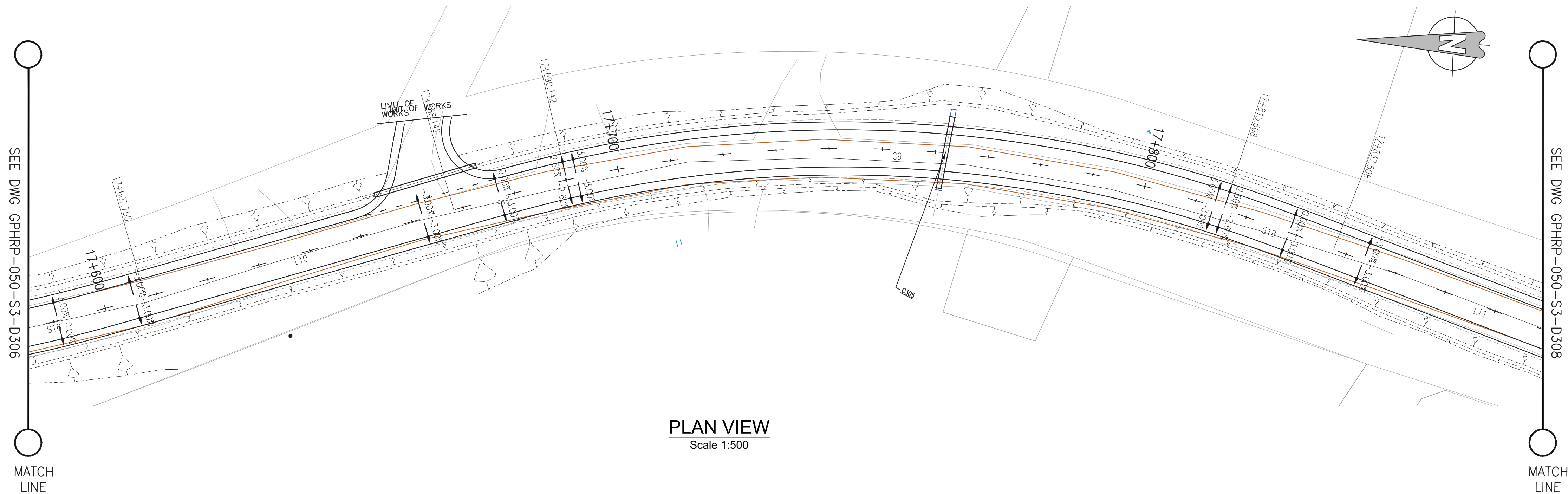
PLAN & PROFILE SEC. 3 - STA.17+089 TO 17+351

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S3-D305 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



Notes:

- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
- All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
- All dimensions in meters unless otherwise noted.
- All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	09.01.17	100% FINAL DESIGN
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

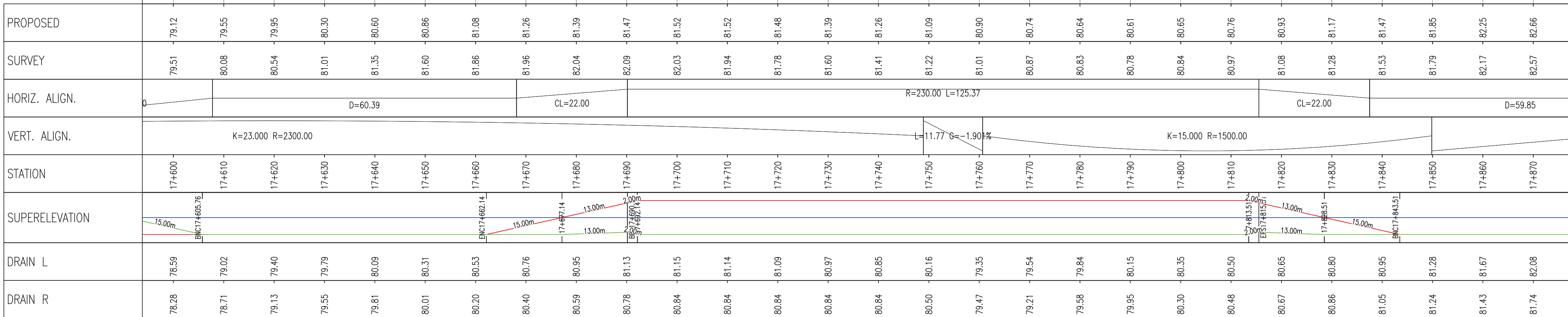
PLAN & PROFILE SEC. 3 - STA.17+613 TO 17+875

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D307** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PROFILE VIEW
Scale 1:500

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breaker	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	07.07.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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Project

George Price Highway Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.17+875 TO 18+137

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

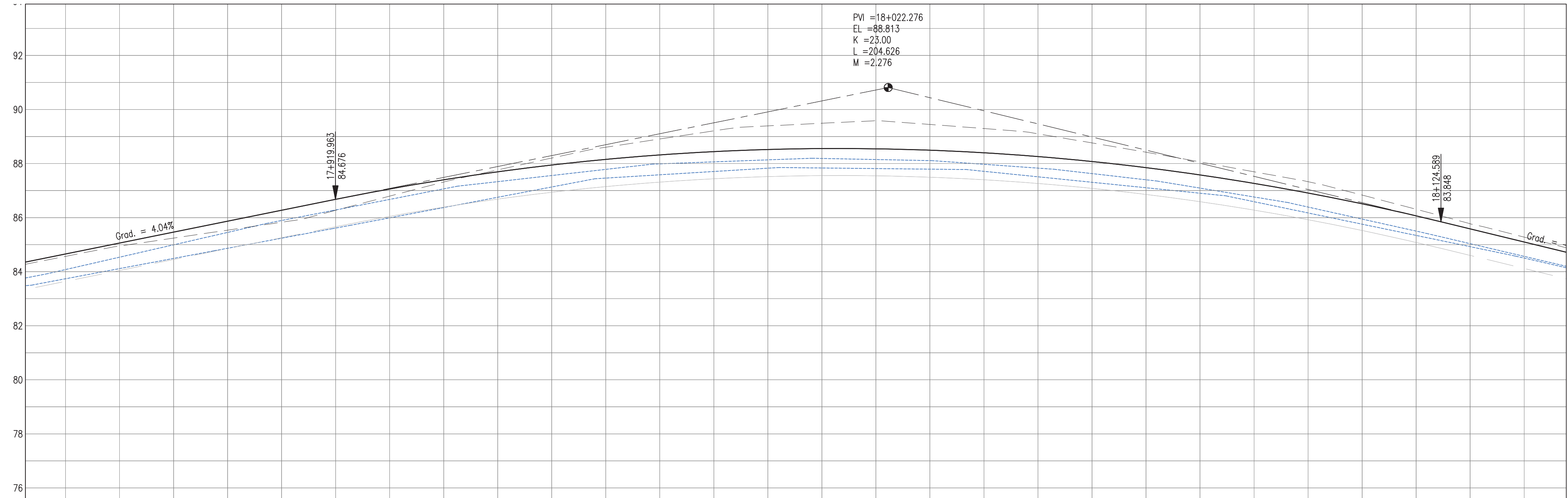
Drawing No.

GPHRP-050-S3-D308

D

Drawing Scale: As noted at A1

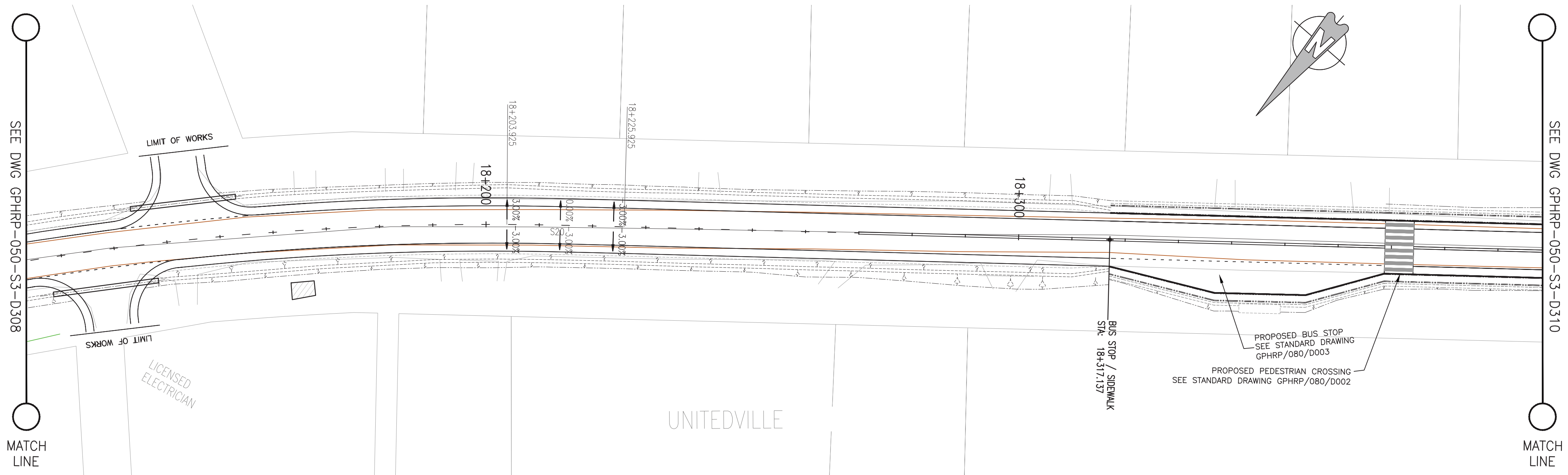
Plot Scale: 1 : 1



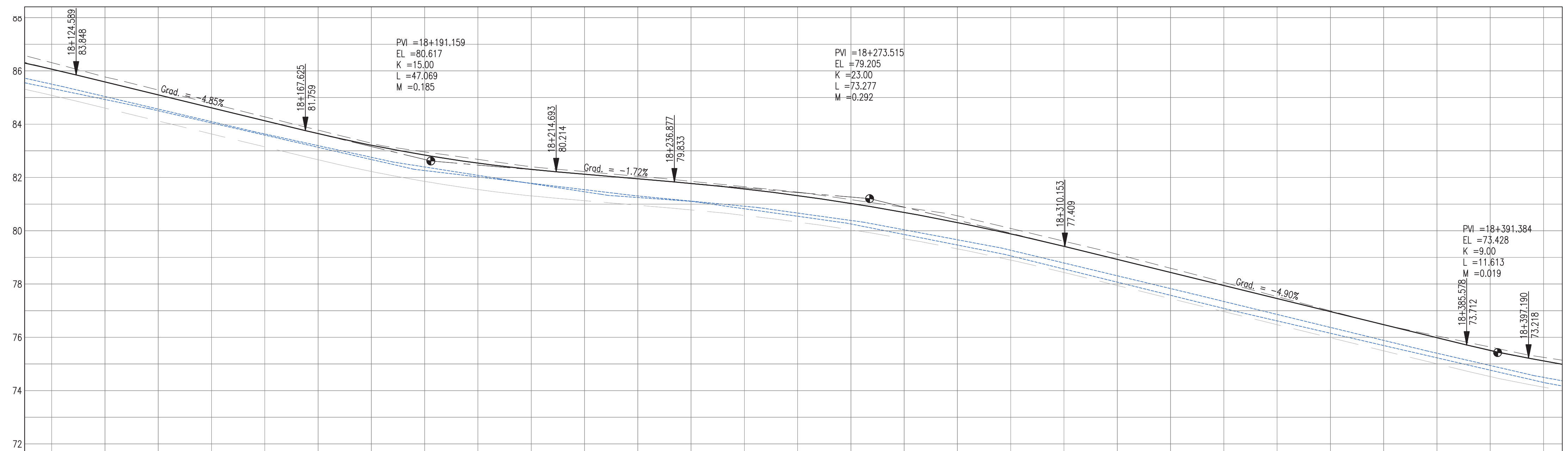
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SURVEY		82.57	82.95	83.24	83.54	83.83	84.27	84.80	85.32	85.77	86.20	86.60	86.91	87.21	87.39	87.49	87.58	87.45	87.30	87.10	86.76	86.42	86.06	85.70	85.33	84.83	84.31	83.77	83.28		
HORIZ. ALIGN.	D=59.85					CL=22.00	R=550.00 L=284.57																								
VERT. ALIGN.	L=70.11 G=4.044%						K=23.000 R=2300.00																				L=43.04 G=-				
STATION		17+870	17+880	17+890	17+900	17+910	17+920	17+930	17+940	17+950	17+960	17+970	17+980	17+990	18+000	18+010	18+020	18+030	18+040	18+050	18+060	18+070	18+080	18+090	18+100	18+110	18+120	18+130	18+140		
SUPERELEVATION						ENC 17+889.36	17+890.36	17+891.36	17+892.36	17+893.36	17+894.36	17+895.36	17+896.36	17+897.36	17+898.36	17+899.36	18+000.36	18+001.36	18+002.36	18+003.36	18+004.36	18+005.36	18+006.36	18+007.36	18+008.36	18+009.36	18+010.36	18+011.36	18+012.36	18+013.36	18+014.36
						10.00m	10.00m																								
DRAIN L		82.08	82.54	83.00	83.46	83.90	84.29	84.68	85.07	85.33	85.56	85.79	85.99	86.06	86.14	86.19	86.15	86.11	85.97	85.83	85.63	85.40	85.09	84.76	84.39	83.94	83.50	83.03	82.56		
DRAIN R		81.74	82.12	82.49	82.87	83.24	83.62	83.99	84.38	84.76	85.14	85.46	85.59	85.71	85.83	85.84	85.81	85.79	85.71	85.51	85.31	85.10	84.90	84.59	84.17	83.75	83.34	82.92	82.50		

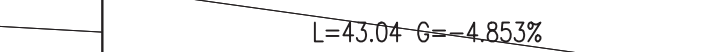
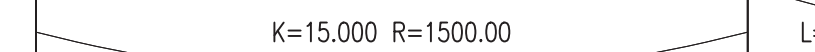


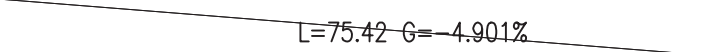


PROFILE VIEW

Scale 1:500



PLAN VIEW
Scale 1:500



PROPOSED	84.07	83.59	83.10	82.61	82.13	81.65	81.21	80.84	80.54	80.30	80.12	79.95	79.78	79.57	79.32	79.03	78.89	78.31	78.88	77.88	77.42	76.93	76.44	75.95	75.46	74.97	74.48	73.99	73.51	73.12
SURVEY	84.31	83.77	83.28	82.77	82.27	81.78	81.28	80.96	80.68	80.40	80.22	80.04	79.86	79.65	79.45	79.17	78.88	78.56	78.09	77.61	77.12	76.59	76.06	75.53	75.00	74.47	73.99	73.63	73.25	
HORIZ. ALIGN.										CL=22.00																				
VERT. ALIGN.																														
STATION	18+120	18+130	18+140	18+150	18+160	18+170	18+180	18+190	18+200	18+210	18+220	18+230	18+240	18+250	18+260	18+270	18+280	18+290	18+300	18+310	18+320	18+330	18+340	18+350	18+360	18+370	18+380	18+390	18+400	
SUPERELEVATION																														
DRAIN L	83.50	83.03	82.56	82.09	81.63	81.19	80.75	80.39	80.08	79.77	79.46	79.25	79.10	78.82	78.54	78.25	77.86	77.46	77.05	76.56	76.07	75.57	75.08	74.61	74.15	73.69	73.23	72.76	72.30	
DRAIN R	83.34	82.92	82.50	82.04	81.59	81.13	80.67	80.26	80.02	79.78	79.54	79.30	79.11	78.92	78.66	78.38	78.03	77.66	77.27	76.79	76.31	75.83	75.34	74.86	74.37	73.88	73.40	72.94	72.49	

PROFILE VIEW
Scale 1:500

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation	
Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	09.01.17	100% FINAL DESIGN
C	KA	KWH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8683
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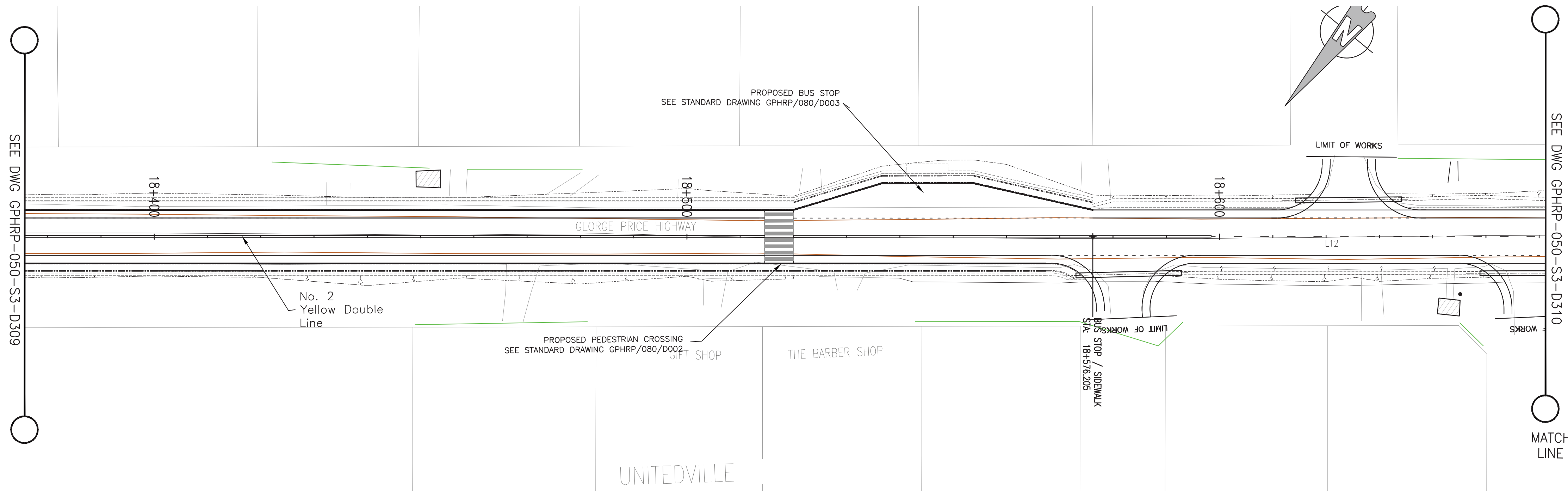
Project
George Price Highway
Rehabilitation Project

Drawing Title

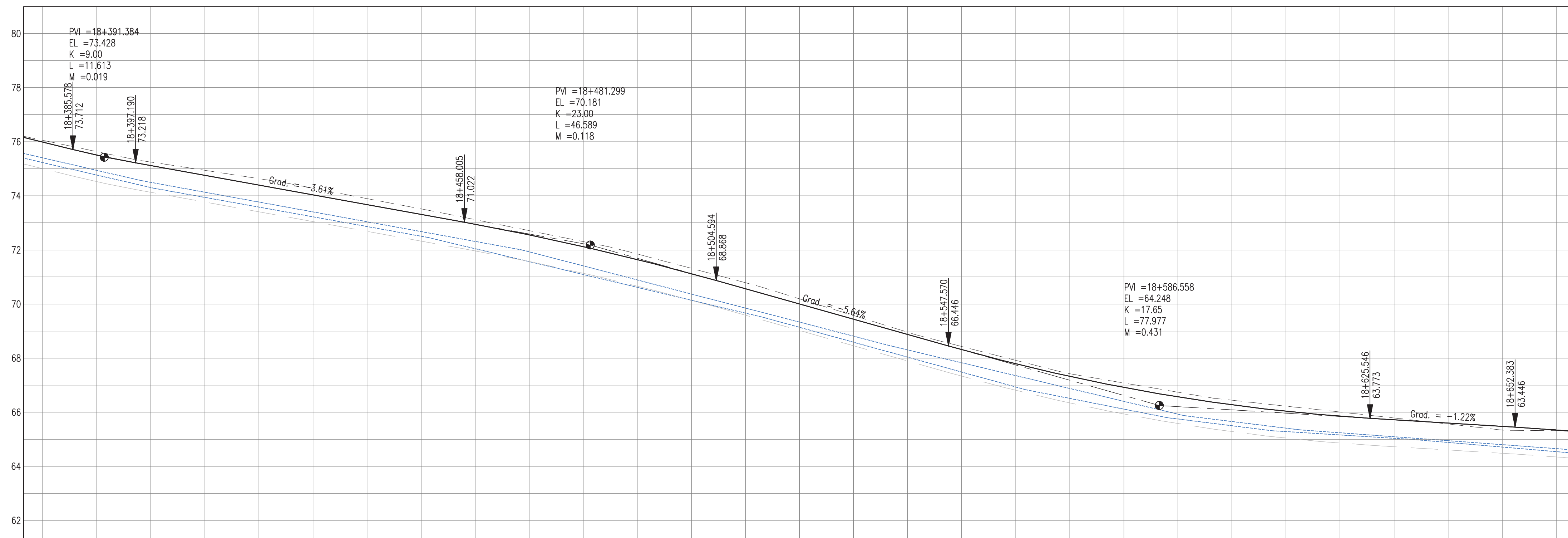
PLAN & PROFILE SEC. 3 - STA.18+137 TO 18+399

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D309** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1



PLAN VIEW
Scale 1:500



PROPOSED	73.99	73.51	73.12	72.76	72.39	72.03	71.67	71.31	70.95	70.56	70.12	69.64	69.12	68.56	68.00	67.44	66.87	66.31	65.79	65.32	64.92	64.56	64.27	64.03	63.85	63.72	63.60	63.47	63.34	
SURVEY	74.05	73.63	73.25	72.94	72.63	72.28	71.90	71.52	71.12	70.71	70.31	69.85	69.32	68.79	68.19	67.57	66.96	66.43	65.92	65.42	65.08	64.74	64.44	64.22	64.01	63.79	63.56	63.34	63.32	
HORIZ. ALIGN.	<div>D=790.32</div>																													
VERT. ALIGN.	<div>K=9.000 R=900.00L=60.81 G=-3.611%K=23.000 R=2300.00L=42.98 G=-5.636%K=17.654 R=1765.44L=26.84 G=-1.220%</div>																													
STATION	18+380	18+390	18+400	18+410	18+420	18+430	18+440	18+450	18+460	18+470	18+480	18+490	18+500	18+510	18+520	18+530	18+540	18+550	18+560	18+570	18+580	18+590	18+600	18+610	18+620	18+630	18+640	18+650	18+660	
SUPERELEVATION																														
DRAIN L	73.23	72.76	72.30	71.94	71.58	71.22	70.86	70.50	70.04	69.56	69.09	68.61	68.14	67.66	67.13	66.58	66.03	65.48	64.93	64.51	64.11	63.75	63.50	63.28	63.16	63.03	62.88	62.71	62.54	
DRAIN R	73.40	72.94	72.49	72.13	71.77	71.40	71.04	70.68	70.31	69.93	69.41	68.89	68.37	67.85	67.33	66.81	66.30	65.82	65.35	64.87	64.40	63.92	63.65	63.41	63.24	63.09	62.95	62.80	62.65	

PROFILE VIEW
Scale 1:500

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - - - - - Cut/Fill Slopes
 - ===== Proposed Ditch
 - ===== Existing Road
 - ===== Existing Fence
 - - - - - Existing Drain
 - ▨ Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SB
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	KN	MS	10.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
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www.ch2m.com

Project
George Price Highway
Rehabilitation Project

Drawing Title
PLAN & PROFILE SEC. 3 - STA.18+399 TO 18+661

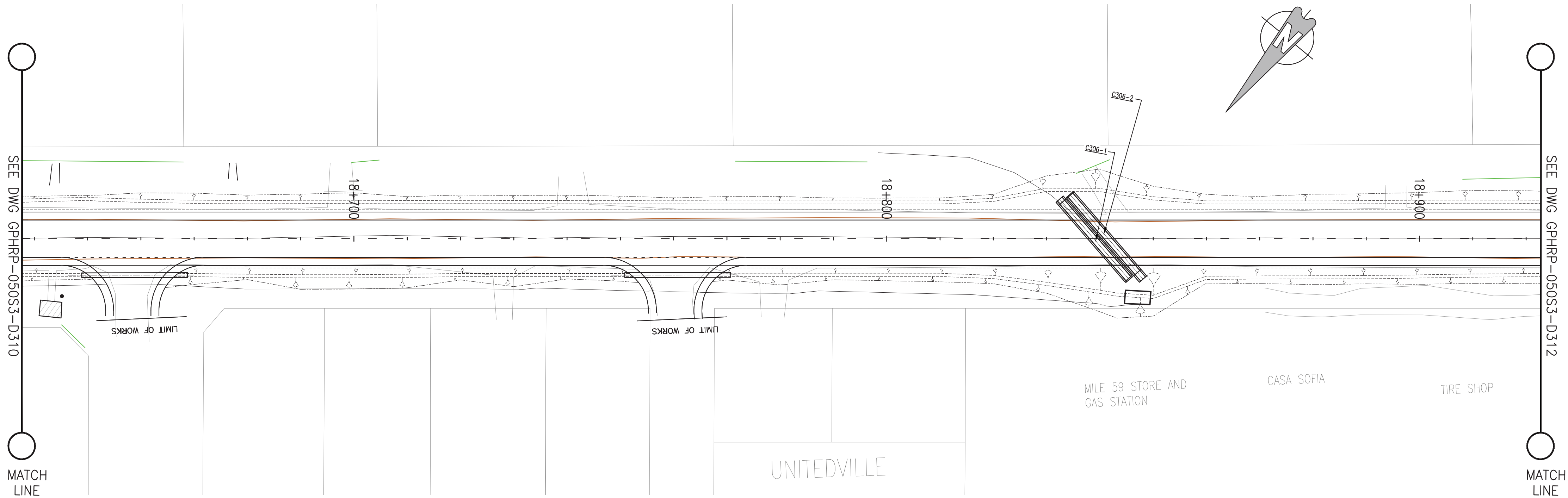
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D310** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE\GPHRP-050-S3-D310 Plan & Profile SEC. 3 - STA.18+399 TO 18+661.dwg
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User and Plot Date : N5507 / 2017 / 01 / 01



Notes:

- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
- All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
- All dimensions in meters unless otherwise noted.
- All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- ==== Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

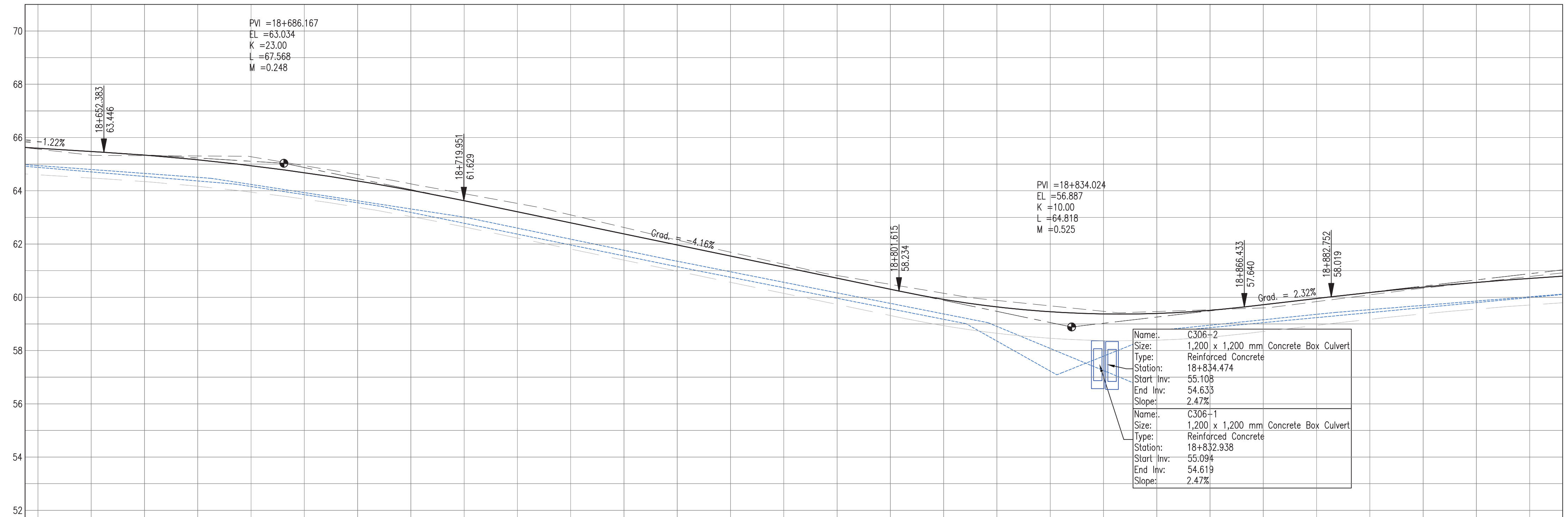
PLAN & PROFILE SEC. 3 - STA.18+661 TO 18+923

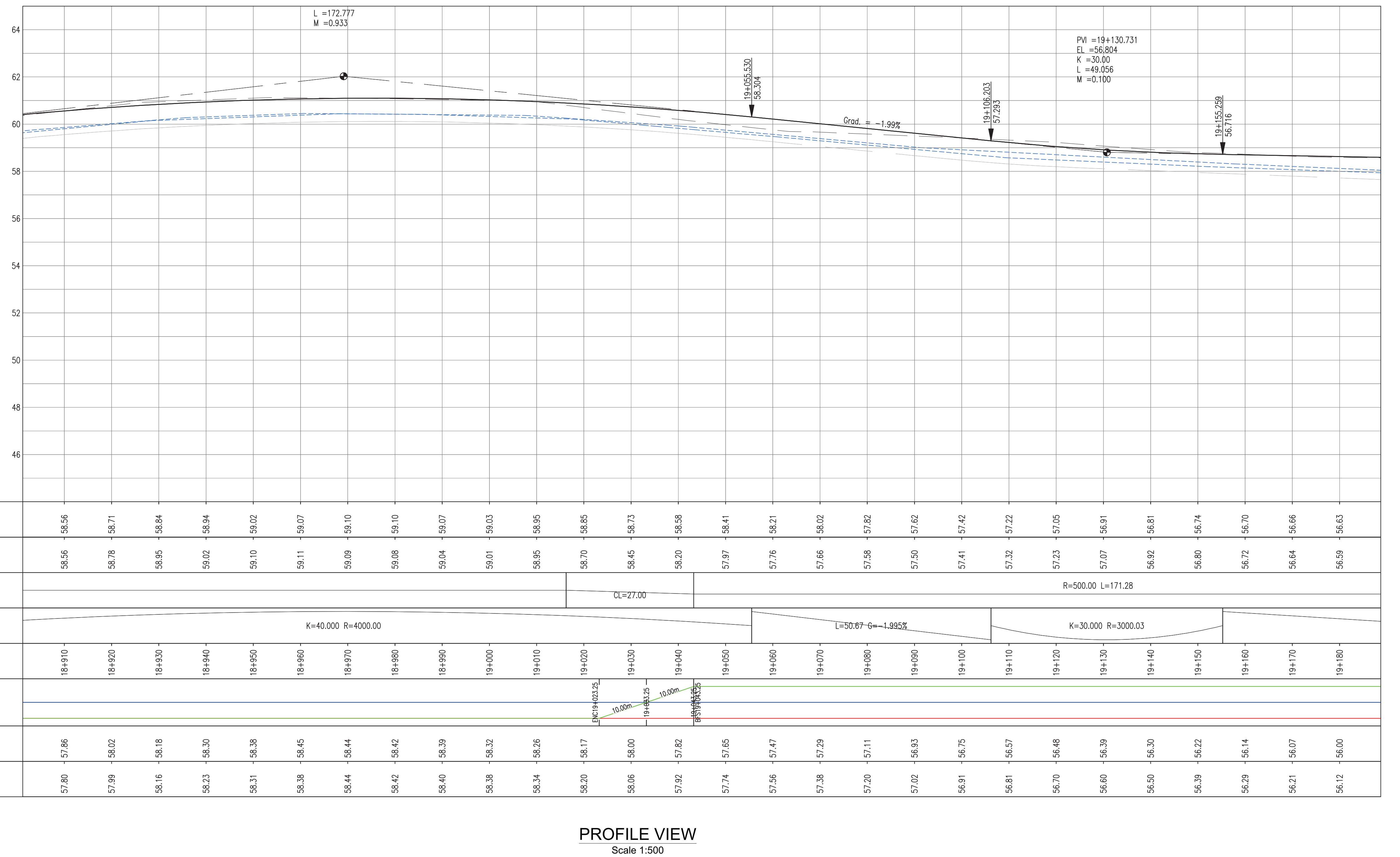
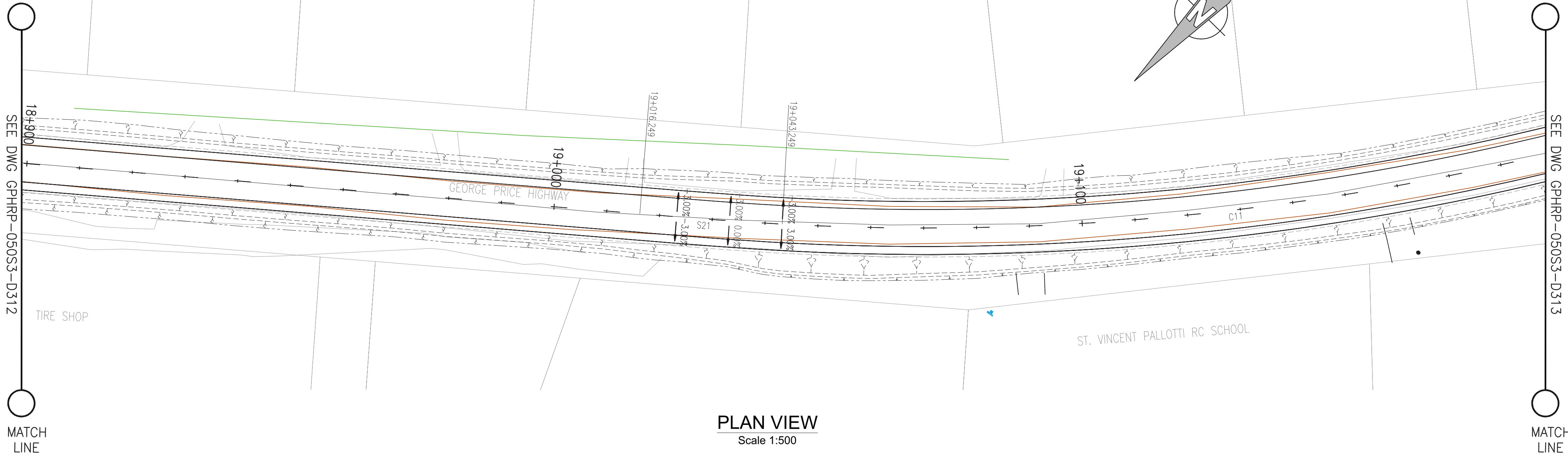
Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No.
GPHRP-050-S3-D311
Revision
D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1





100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	KWH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE

Ministry of Works

Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

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www.ch2m.com

Project: George Price Highway Rehabilitation Project

Drawing Title: PLAN & PROFILE SEC. 3 - STA.18+923 TO 19+185

Drawn by KA Date: 07 JUL, 2016

Checked by MR Date: 07 JUL, 2016

Authorised by MS Date: 07 JUL, 2016

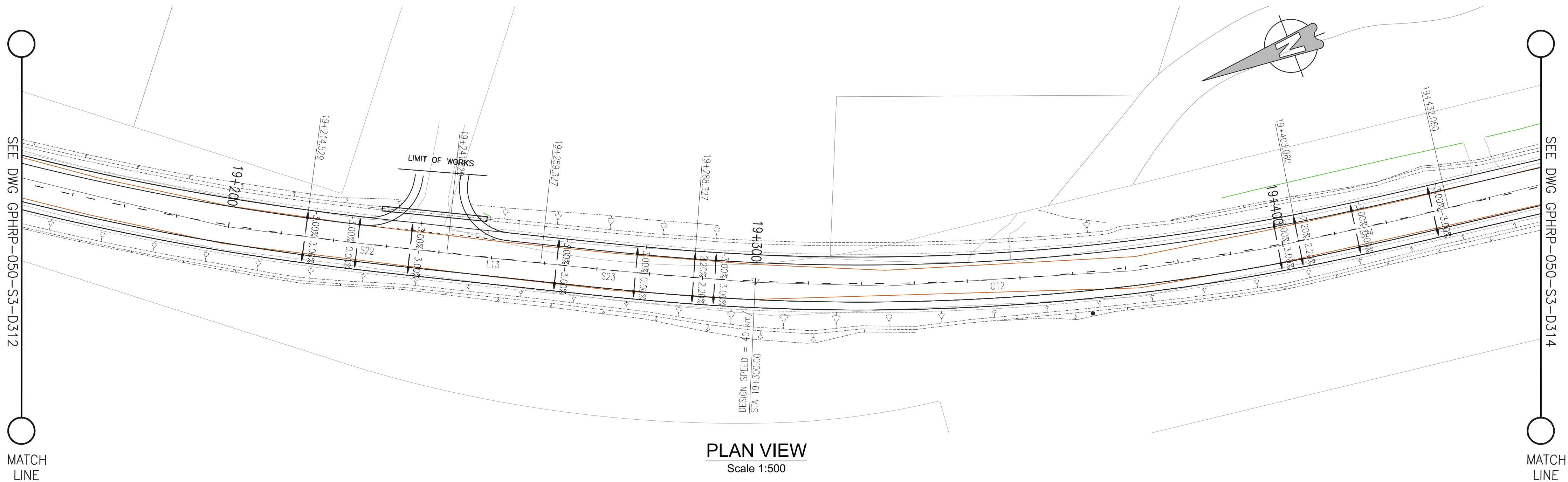
Drawing No. GPHRP-050-S3-D312 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

SEE DWG GPHRP-050-S3-D312

MATCH LINE



PLAN VIEW
Scale 1:500

SEE DWG GPHRP-050-S3-D314

MATCH LINE

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊙ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- ==== Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SB
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER	COMMENTS
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN	
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN	
A	KA	MR	MS	07.07.16	90% DESIGN	
Revision	By	Checked	Approved	Date	Description	

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.19+185 TO 19+447

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

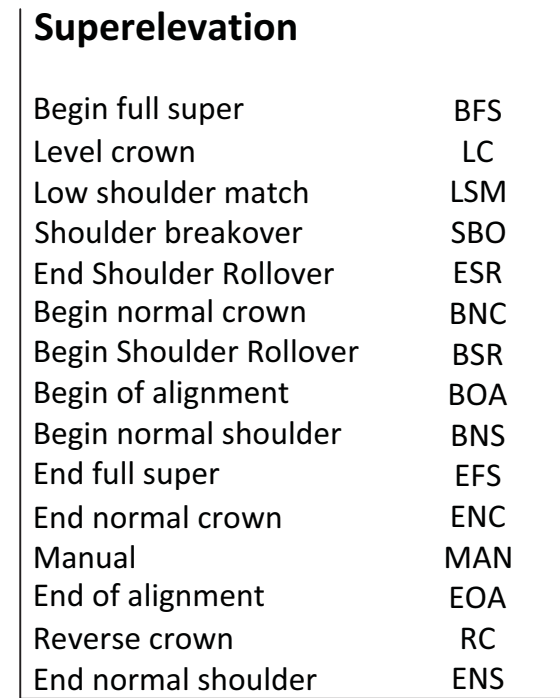
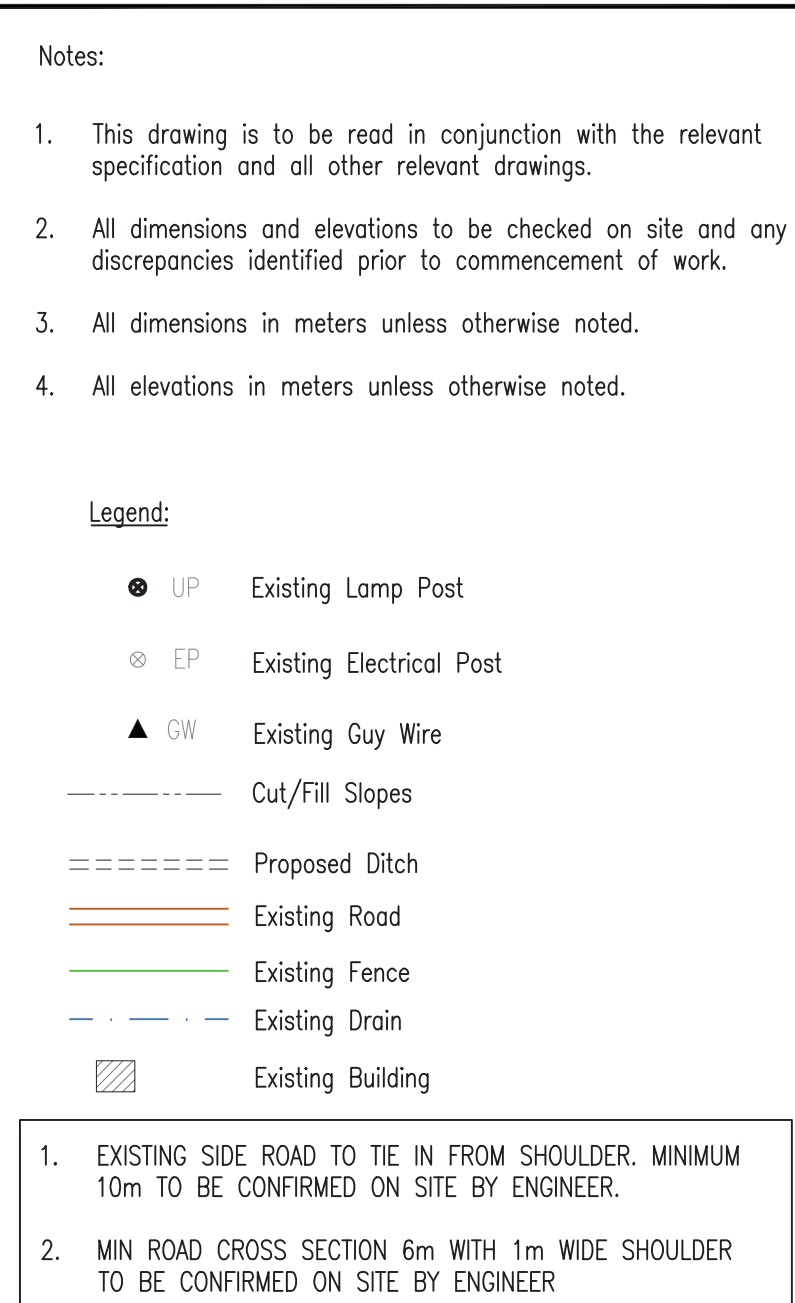
Drawing No. **GPHRP-050-S3-D313** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1

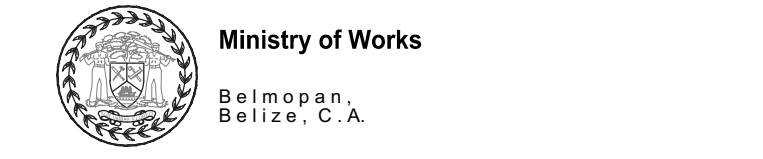
PROPOSED	56.66	56.63	56.59	56.55	56.52	56.48	56.45	56.41	56.37	56.33	56.28	56.22	56.16	56.09	56.02	55.94	55.85	55.74	55.61	55.46	55.32	55.21	55.14	55.13	55.16	55.24	55.37	55.54	55.76											
SURVEY	56.64	56.59	56.57	56.52	56.49	56.45	56.42	56.40	56.38	56.33	56.28	56.21	56.14	56.06	55.99	55.90	55.80	55.70	55.58	55.44	55.31	55.23	55.14	55.10	55.18	55.24	55.42	55.64	55.86											
HORIZ. ALIGN.						CL=27.00				D=17.80				CL=29.00				R=430.00 L=114.73												CL=29.00										
VERT. ALIGN.	L=96.56 G=-0.360%										K=91.140 R=9113.99					L=30.64 G=-0.681%					K=53.496 R=5349.64					L=12.78 G=-1.479%					K=21.000 R=2100.00									
STATION	19+170	19+180	19+190	19+200	19+210	19+220	19+230	19+240	19+250	19+260	19+270	19+280	19+290	19+300	19+310	19+320	19+330	19+340	19+350	19+360	19+370	19+380	19+390	19+400	19+410	19+420	19+430	19+440	19+450											
SUPERELEVATION						10.00m		10.00m		10.00m		10.00m		10.00m		10.00m		10.00m		10.00m		10.00m		10.00m		10.00m		10.00m		10.00m										
DRAIN L	56.07	56.00	55.93	55.86	55.78	55.71	55.64	55.56	55.49	55.41	55.34	55.27	55.19	55.10	55.02	54.94	54.86	54.77	54.68	54.59	54.51	54.44	54.38	54.39	54.49	54.60	54.77	54.94	55.14											
DRAIN R	56.21	56.12	56.03	55.95	55.86	55.77	55.69	55.61	55.57	55.54	55.50	55.45	55.37	55.28	55.20	55.11	55.06	55.05	55.03	55.02	54.98	54.95	54.91	54.87	54.82	54.76	54.70	54.68	54.88	55.13										

PROFILE VIEW
Scale 1:500



D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED = DECEMBER COMMENTS
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com



Project

George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.19+447 TO 19+709

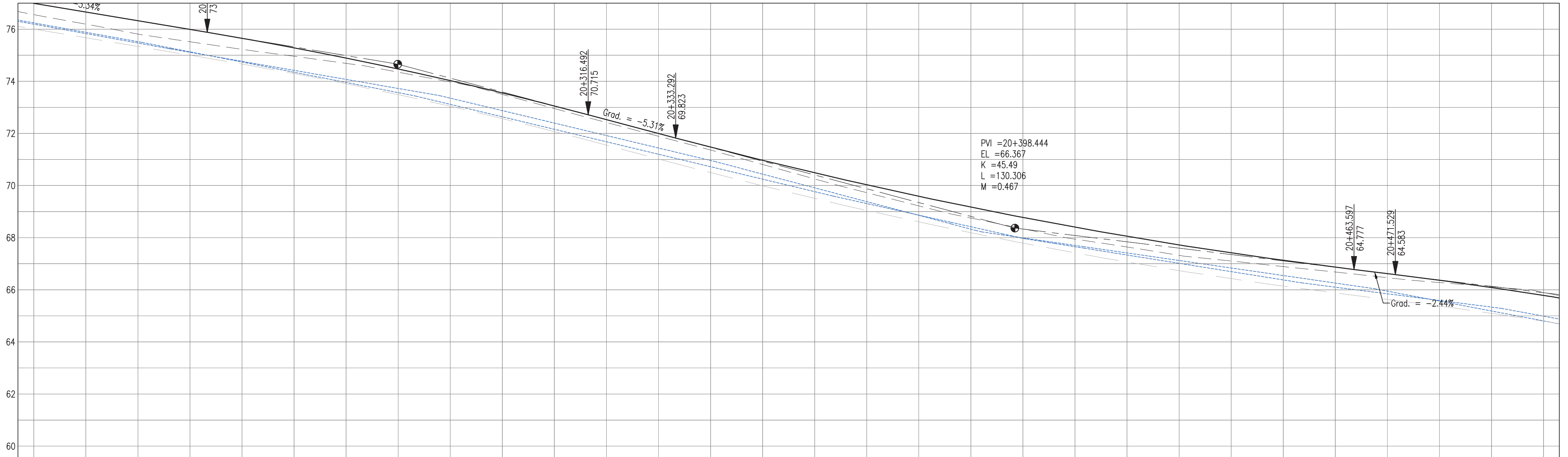
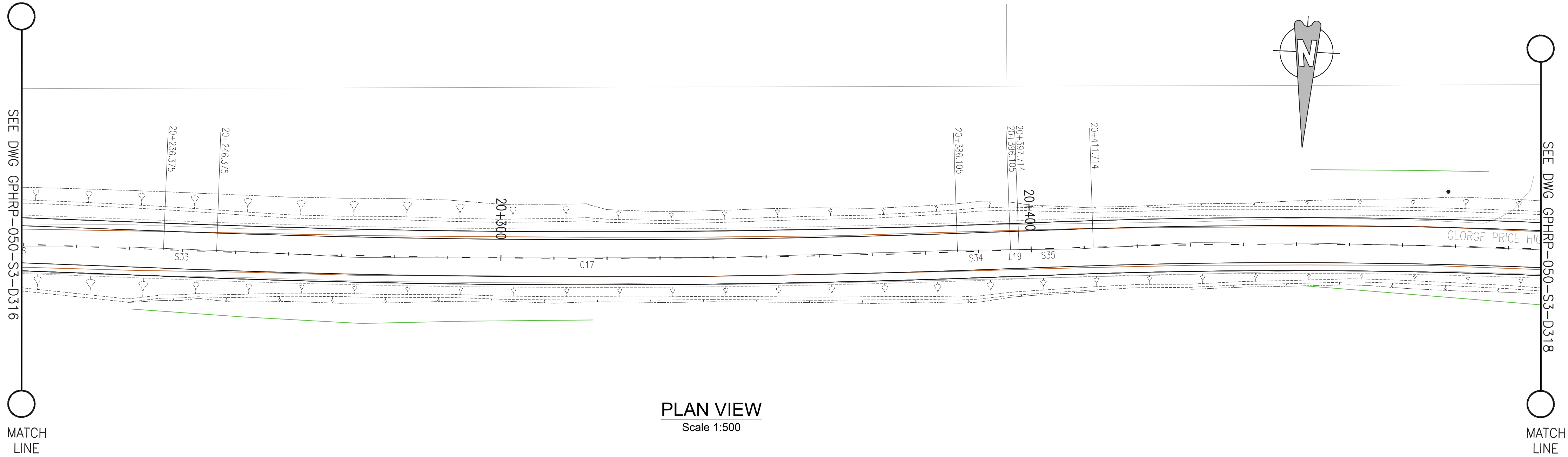
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No. GPHRP-050-S3-D314	Revision D
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Drawing Scale: As noted at A1

Plot Scale: 1 : 1





PROPOSED	74.99	74.66	74.32	73.99	73.65	73.28	72.89	72.47	72.03	71.55	71.05	70.53	70.00	69.47	68.97	68.48	68.02	67.59	67.17	66.77	66.40	66.05	65.72	65.41	65.13	64.87	64.62	64.37	64.09	63.78		
SURVEY	74.56	74.19	73.81	73.52	73.23	72.96	72.69	72.35	71.97	71.50	70.95	70.42	69.89	69.36	68.81	68.25	67.73	67.22	66.75	66.34	65.94	65.64	65.32	65.10	64.89	64.68	64.47	64.28	64.12	63.90		
HORIZ. ALIGN.	=54.27		CL=10.00		R=2000.00 L=139.73																CL=10.00		CL=14.00									
VERT. ALIGN.	L=53.50 G=-3.344%				K=37.307 R=3730.67										L=16.80 G=-5.305%		K=45.487 R=4548.68										L=79.93 G=-2.441%					
STATION	20+210	20+220	20+230	20+240	20+250	20+260	20+270	20+280	20+290	20+300	20+310	20+320	20+330	20+340	20+350	20+360	20+370	20+380	20+390	20+400	20+410	20+420	20+430	20+440	20+450	20+460	20+470	20+480	20+490	20+500		
SUPERELEVATION																																
DRAIN L	74.24	73.88	73.52	73.13	72.74	72.35	71.95	71.56	71.11	70.63	70.16	69.68	69.20	68.72	68.24	67.76	67.31	66.86	66.42	65.97	65.65	65.33	65.01	64.69	64.38	64.10	63.84	63.59	63.33	62.99		
DRAIN R	74.19	73.83	73.47	73.11	72.76	72.42	72.07	71.72	71.35	70.87	70.39	69.91	69.44	68.96	68.43	67.91	67.38	66.85	66.32	65.99	65.70	65.41	65.12	64.83	64.54	64.26	63.94	63.56	63.18	62.80		

PROFILE VIEW
Scale 1:500

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - ===== Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN
C	KA	KNH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

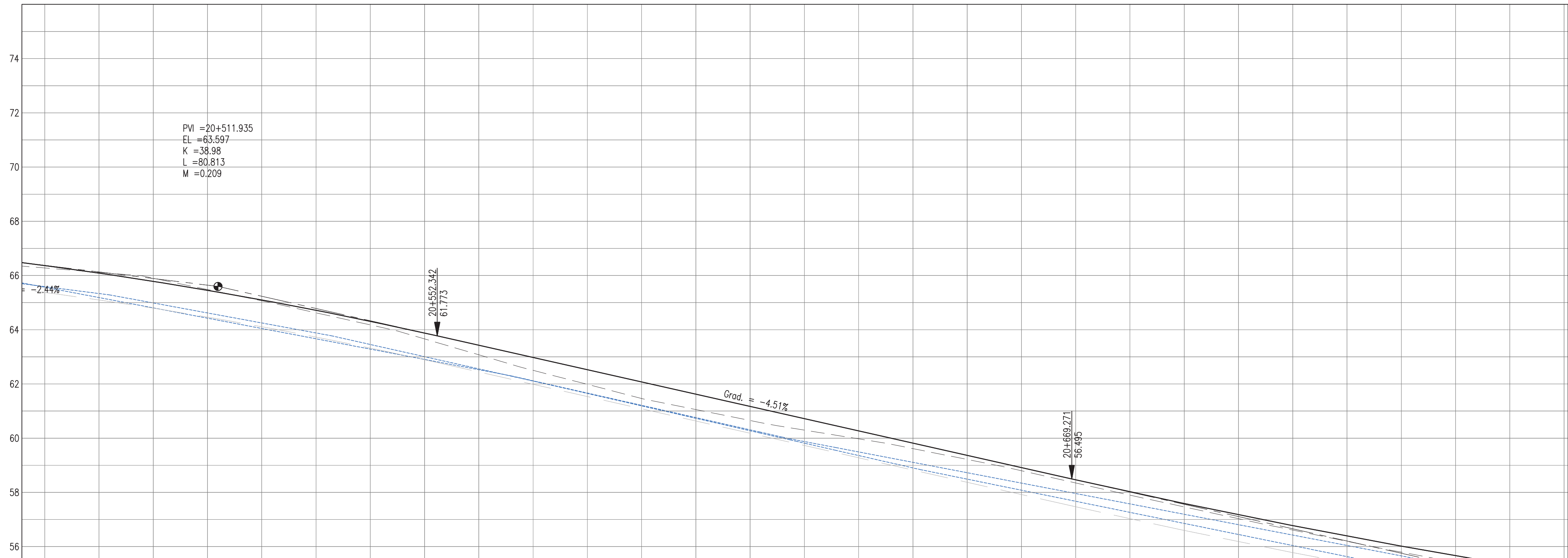
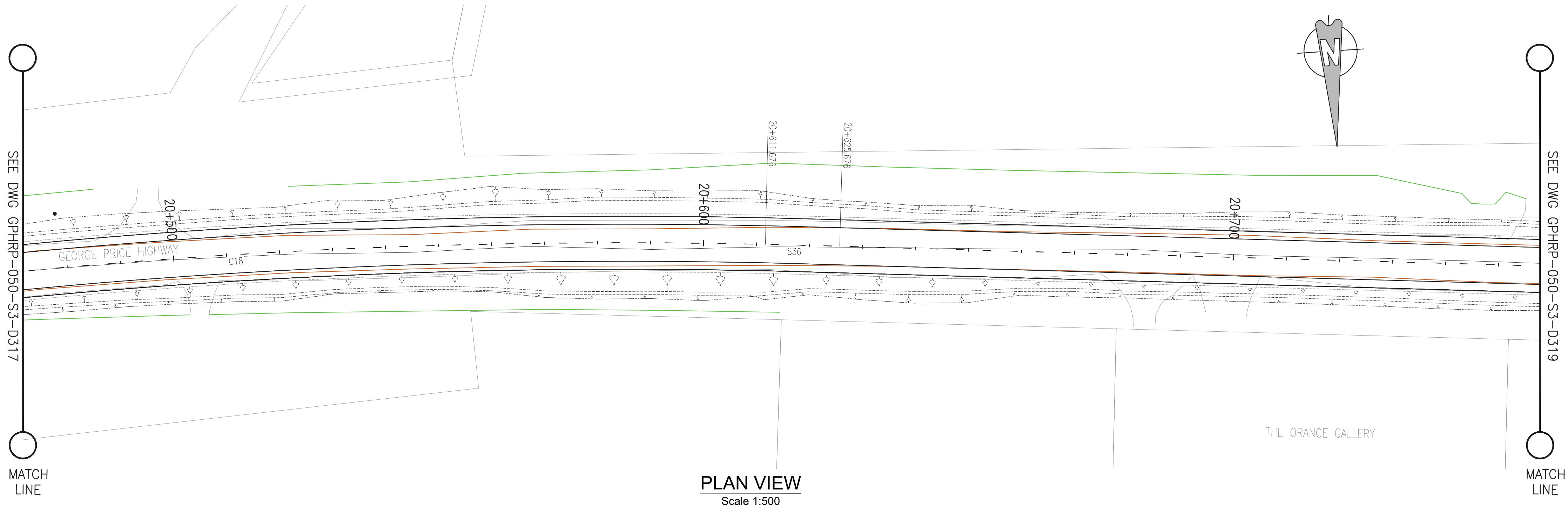
PLAN & PROFILE SEC. 3 - STA.20+233 TO 20+495

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D317** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



PROPOSED																														
SURVEY	64.28	64.12	63.90	63.48	63.07	62.62	62.18	61.66	61.08	60.50	59.99	59.46	59.05	58.65	58.30	57.97	57.61	57.21	56.80	56.35	55.90	55.46	55.03	54.61	54.20	53.80	53.42	53.04	52.70	
HORIZ. ALIGN.	R=1200.00 L=199.96														CL=14.00															
VERT. ALIGN.	K=38.983 R=3898.26								L=116.93 G=-4.514%																					
STATION	20+480	20+490	20+500	20+510	20+520	20+530	20+540	20+550	20+560	20+570	20+580	20+590	20+600	20+610	20+620	20+630	20+640	20+650	20+660	20+670	20+680	20+690	20+700	20+710	20+720	20+730	20+740	20+750	20+760	
SUPERELEVATION																														
DRAIN L	63.59	63.33	62.99	62.62	62.25	61.88	61.45	61.00	60.55	60.10	59.65	59.19	58.73	58.27	57.81	57.36	56.90	56.49	56.08	55.67	55.26	54.85	54.44	54.04	53.63	53.23	52.91	52.58	52.25	
DRAIN R	63.56	63.18	62.80	62.42	62.04	61.66	61.28	60.90	60.52	60.11	59.66	59.21	58.76	58.30	57.87	57.49	57.11	56.72	56.34	55.96	55.57	55.19	54.81	54.42	54.04	53.66	53.27	52.89	52.51	

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	KWH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

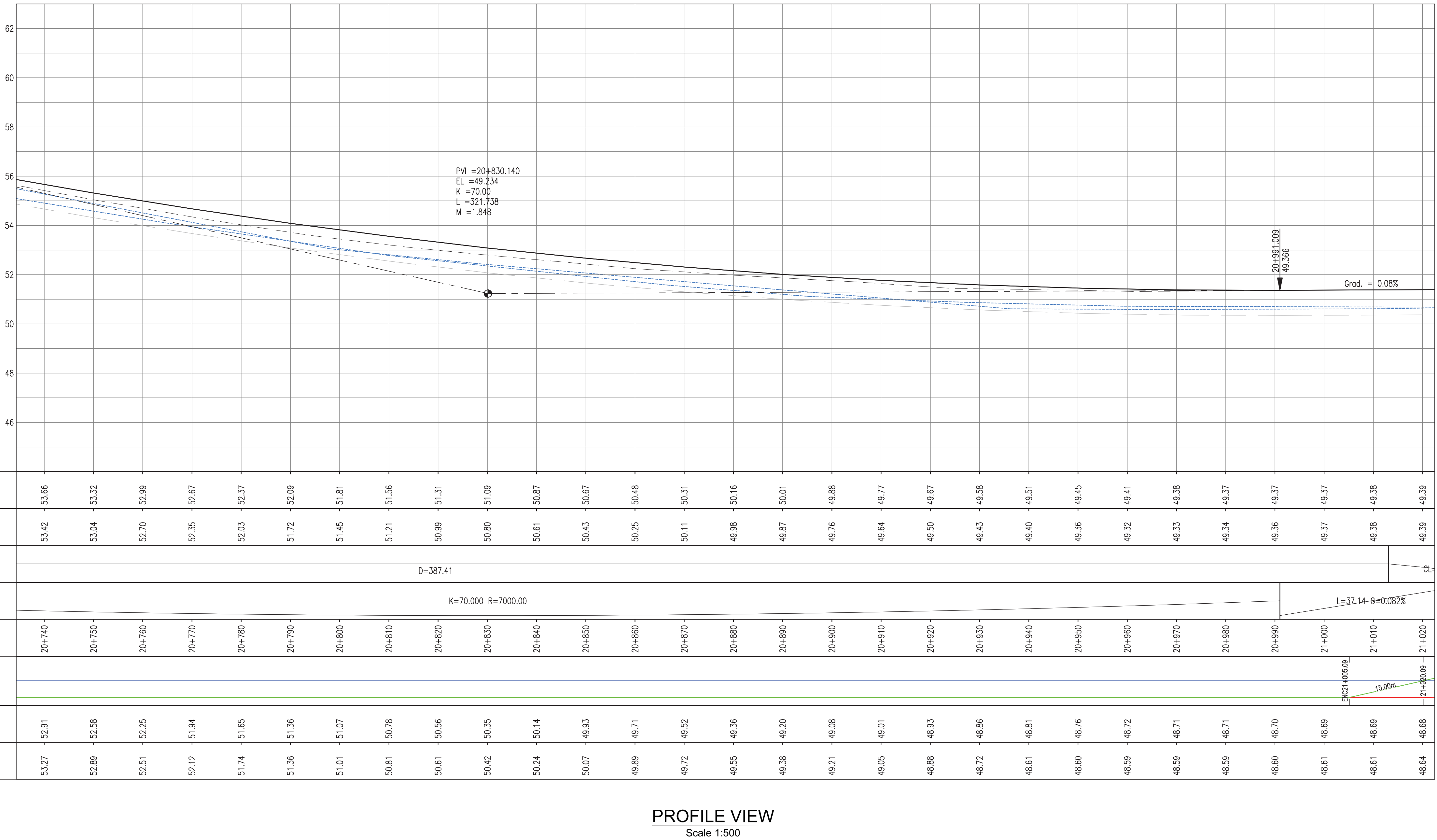
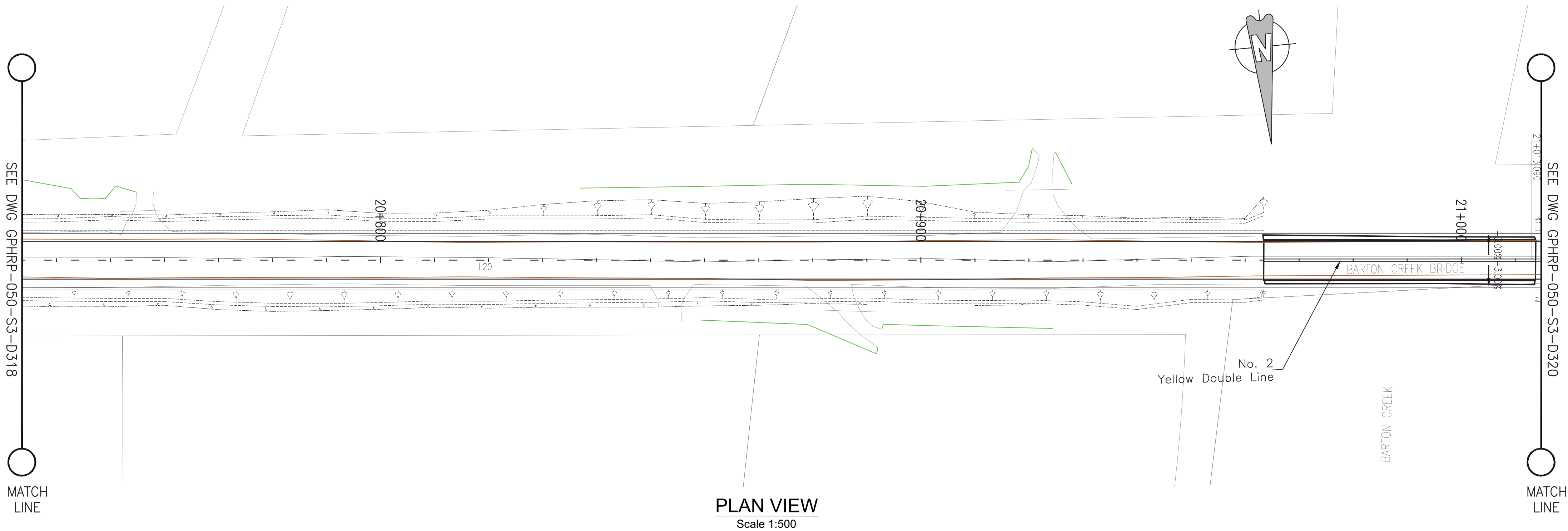
PLAN & PROFILE SEC. 3 - STA.20+495 TO 20+757

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S3-D318 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



100% FINAL DESIGN

D	KA	MR	MS	09/01/17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	KNH	MS	28/10/16	100% FINAL DESIGN
B	KA	MR	MS	14/10/16	100% DRAFT DESIGN
A	KA	MR	MS	07/07/16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

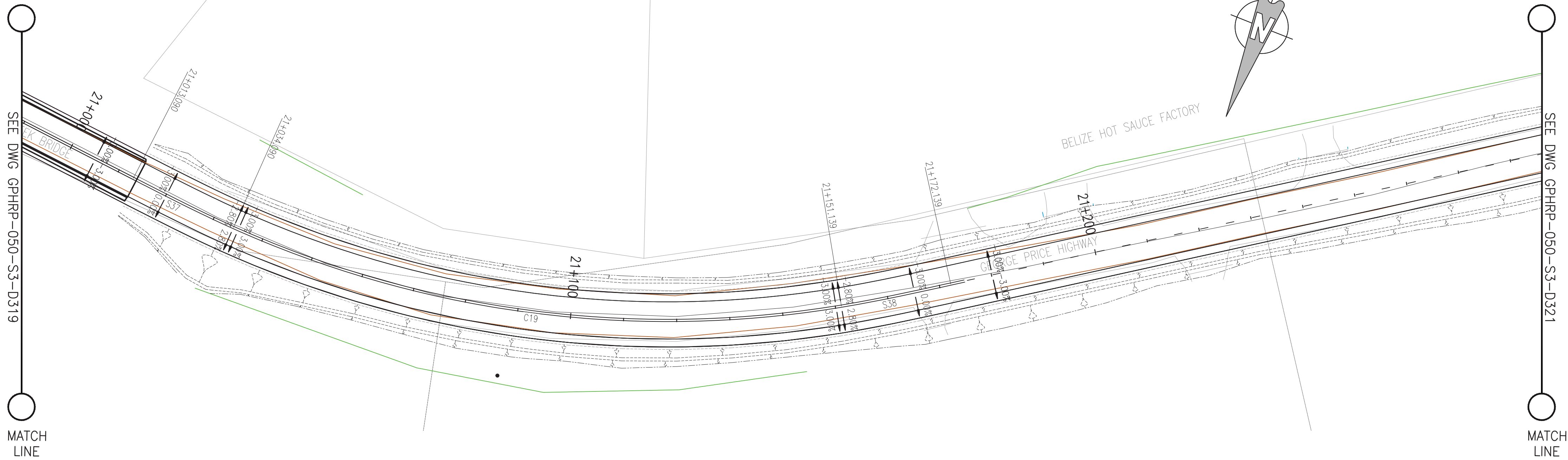
PLAN & PROFILE SEC. 3 - STA.20+757 TO 21+019

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S3-D319 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



Notes:

- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
- All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
- All dimensions in meters unless otherwise noted.
- All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- ==== Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	KWH	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

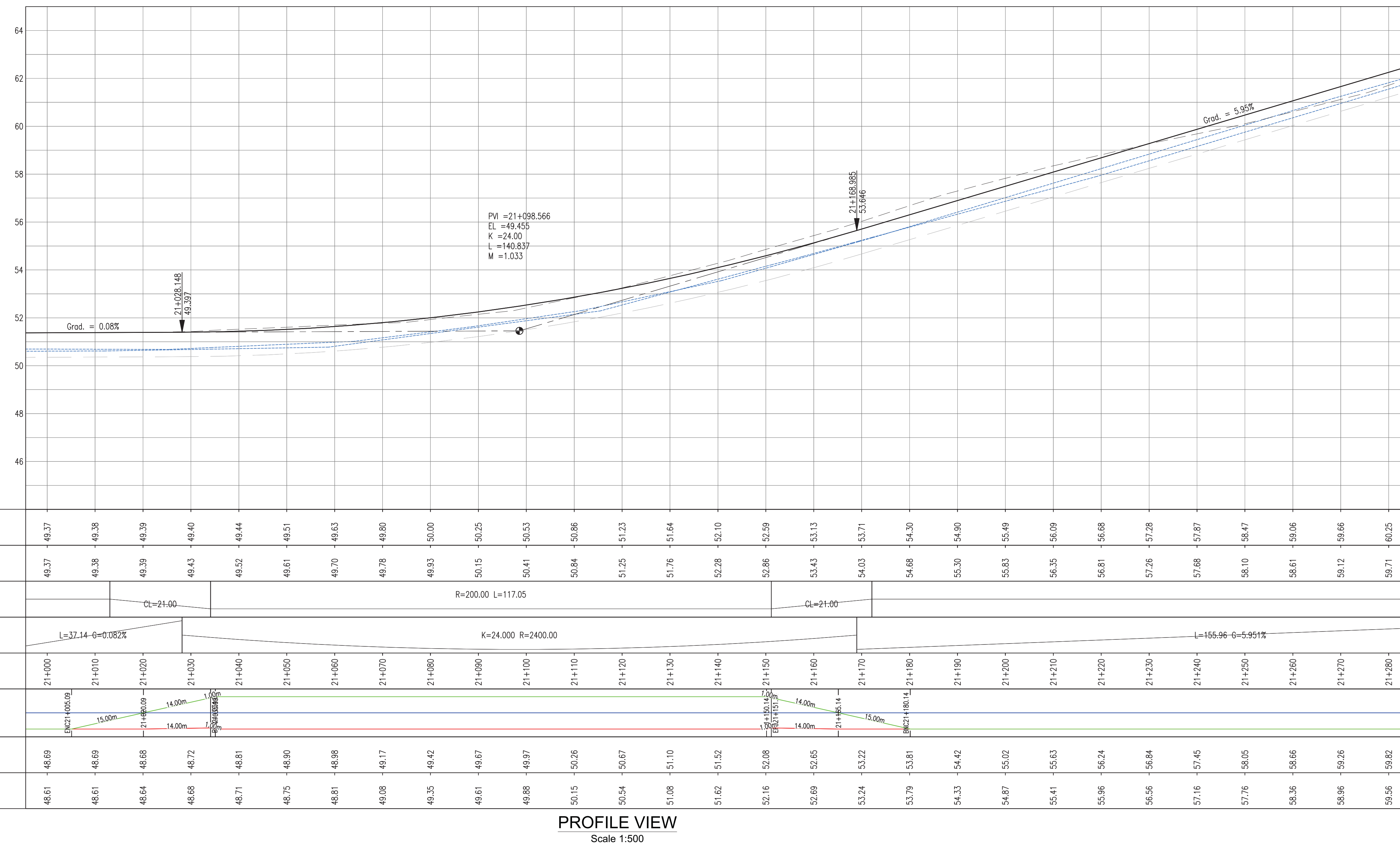
PLAN & PROFILE SEC. 3 - STA.21+019 TO 21+281

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D320** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1



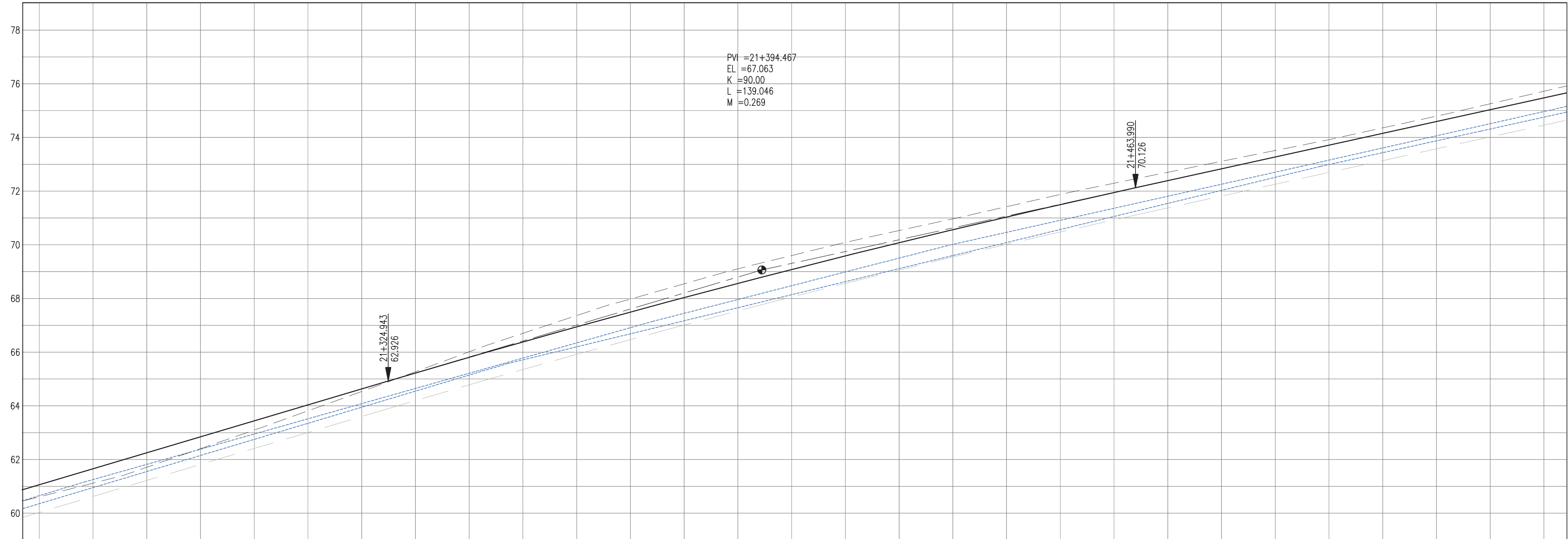
SEE DWG GPHRP-050-S3-D320



MATCH LINE

SEE DWG GPHRP-050-S3-D322

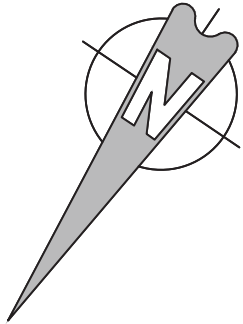
MATCH LINE

PLAN VIEW
Scale 1:500



PROPOSED		-59.06		-59.66		-60.25		-60.85		-61.44		-62.04		-62.63		-63.23		-63.81		-64.38		-64.94		-65.49		-66.03		-66.56		-67.08		-67.59		-68.08		-68.56		-69.04		-69.50		-69.95		-70.39		-70.83		-71.27		-71.71		-72.15		-72.59		-73.03		-73.48
SURVEY		58.61		59.12		59.71		60.40		61.10		61.81		62.53		63.27		64.01		64.70		65.36		65.98		66.55		67.10		67.60		68.09		68.53		68.97		69.42		69.88		70.29		70.70		71.11		71.51		71.92		72.36		72.79		73.25		73.72
HORIZ. ALIGN.		D=425.40																																																								
VERT. ALIGN.																																																										
STATION		21+260		21+270		21+280		21+290		21+300		21+310		21+320		21+330		21+340		21+350		21+360		21+370		21+380		21+390		21+400		21+410		21+420		21+430		21+440		21+450		21+460		21+470		21+480		21+490		21+500		21+510		21+520		21+530		21+540
SUPERELEVATION																																																										
DRAIN L		58.66		59.26		59.82		60.39		60.95		61.52		62.09		62.65		63.22		63.78		64.35		64.92		65.45		65.97		66.48		66.99		67.51		68.02		68.47		68.92		69.36		69.81		70.26		70.71		71.16		71.61		72.06		72.52		72.97
DRAIN R		58.36		58.96		59.56		60.16		60.75		61.35		61.95		62.55		63.15		63.72		64.20		64.69		65.17		65.66		66.14		66.63		67.12		67.60		68.09		68.57		69.06		69.55		70.03		70.52		71.00		71.44		71.88		72.32		72.76

PROFILE VIEW
Scale 1:500



Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- - - - Proposed Ditch
- Existing Road
- Existing Fence
- - - Existing Drain
- ▨ Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09/01/17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	01/11/16	100% FINAL DESIGN
B	KA	MR	MS	14/10/16	100% DRAFT DESIGN
A	KA	MR	MS	07/07/16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project

George Price Highway
Rehabilitation Project

Drawing Title

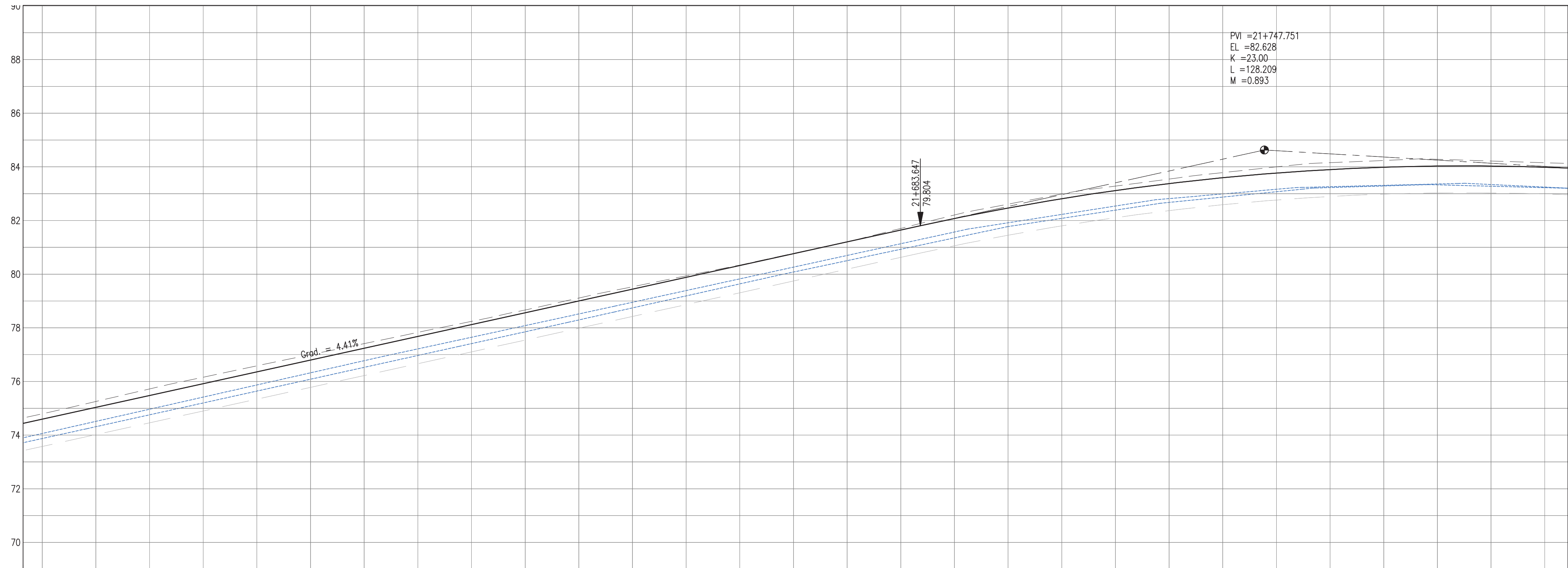
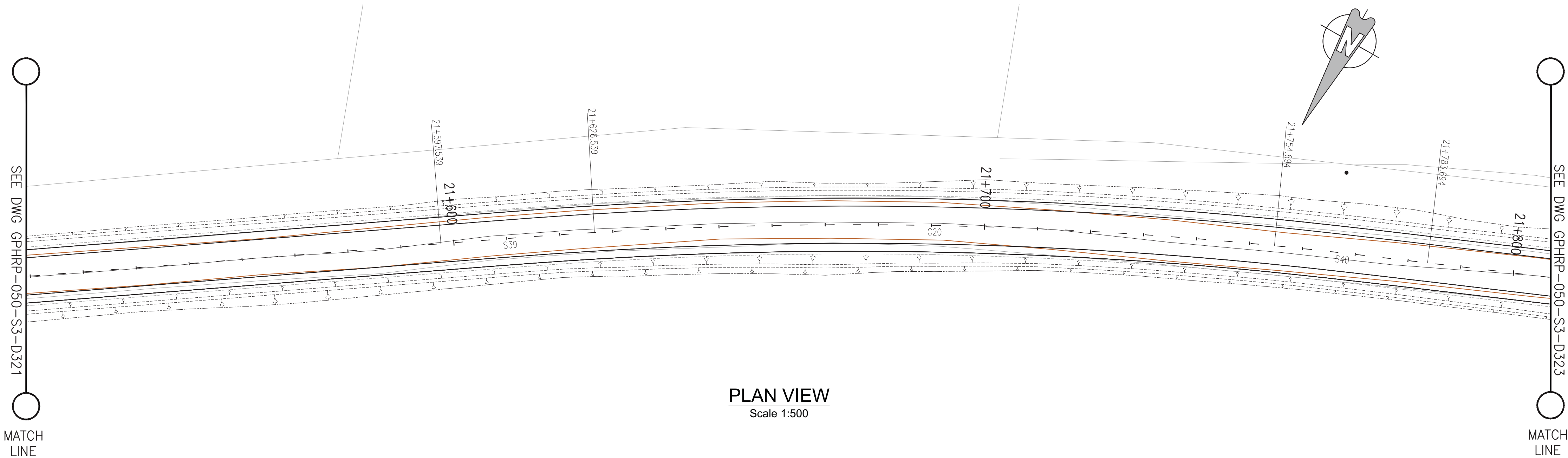
PLAN & PROFILE SEC. 3 - STA.21+281 TO 21+543

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D321** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1



PROPOSED	72.59	73.03	73.48	73.92	74.36	74.80	75.24	75.68	76.12	76.56	77.00	77.44	77.88	78.32	78.76	79.20	79.64	80.08	80.47	80.81	81.12	81.38	81.60	81.77	81.90	81.99	82.03	82.03	81.99
SURVEY	72.79	73.25	73.72	74.16	74.58	75.00	75.41	75.83	76.24	76.66	77.11	77.53	77.94	78.34	78.78	79.20	79.71	80.21	80.61	80.99	81.28	81.54	81.79	82.00	82.16	82.24	82.28	82.22	82.15
HORIZ. ALIGN.	CL=29.00																R=800.00 L=128.16										CL=29.00		
VERT. ALIGN.	L=219.66 G=4.406%																K=23.000 R=2300.00												
STATION	21+520	21+530	21+540	21+550	21+560	21+570	21+580	21+590	21+600	21+610	21+620	21+630	21+640	21+650	21+660	21+670	21+680	21+690	21+700	21+710	21+720	21+730	21+740	21+750	21+760	21+770	21+780	21+790	21+800
SUPERELEVATION																													
DRAIN L	72.06	72.52	72.97	73.42	73.87	74.33	74.78	75.22	75.65	76.09	76.52	76.96	77.39	77.83	78.26	78.70	79.14	79.57	79.92	80.23	80.54	80.82	80.99	81.17	81.26	81.31	81.36	81.34	81.25
DRAIN R	71.88	72.32	72.76	73.20	73.64	74.09	74.53	74.97	75.41	75.85	76.30	76.75	77.19	77.64	78.08	78.51	78.93	79.35	79.78	80.08	80.39	80.68	80.87	81.07	81.23	81.29	81.33	81.28	81.22

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

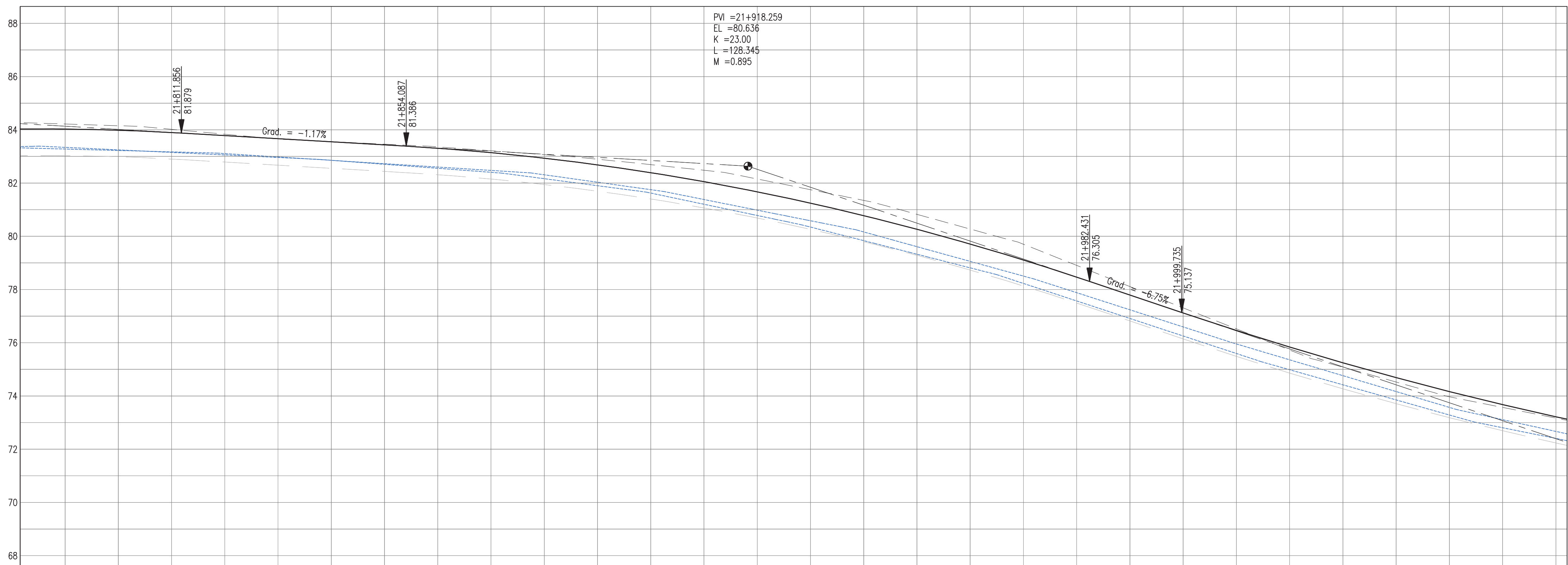
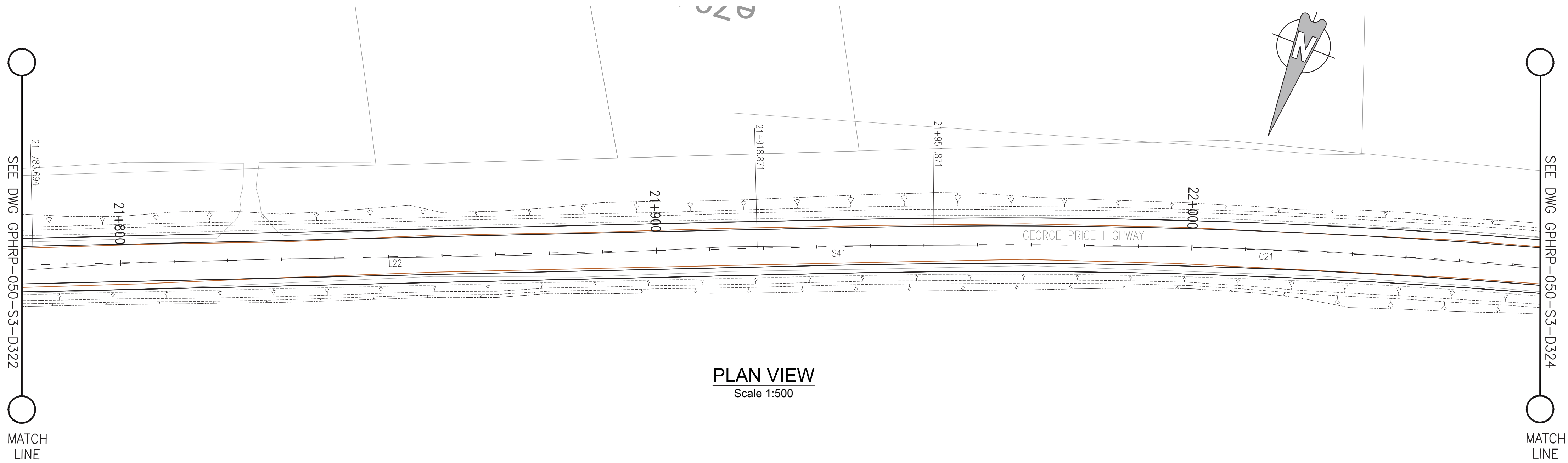
PLAN & PROFILE SEC. 3 - STA.21+543 TO 21+805

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D322** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1



PROPOSED																															
SURVEY	82.22	82.15	82.02	81.84	81.65	81.56	81.46	81.36	81.21	81.14	81.07	80.90	80.69	80.39	80.05	79.67	79.25	78.78	78.26	77.71	77.11	76.47	75.79	75.12	74.46	73.84	73.08	72.53	71.97	71.57	71.17
HORIZ. ALIGN.		D=135.18															CL=33.00					R=1250.00 L=123.85									
VERT. ALIGN.	<div><div><div></div><div>L=42.23 G=-1.169%</div><div></div></div><div><div></div><div>K=23.000 R=2300.00</div><div></div></div><div><div></div><div>L=17.30 G=-6.749%</div><div></div></div></div>																														
STATION	21+790	21+800	21+810	21+820	21+830	21+840	21+850	21+860	21+870	21+880	21+890	21+900	21+910	21+920	21+930	21+940	21+950	21+960	21+970	21+980	21+990	22+000	22+010	22+020	22+030	22+040	22+050	22+060	22+070		
SUPERELEVATION																															
DRAIN L	81.34	81.25	81.15	81.06	80.96	80.85	80.70	80.55	80.40	80.16	79.90	79.62	79.20	78.78	78.34	77.83	77.32	76.81	76.22	75.57	74.91	74.25	73.59	72.98	72.42	71.85	71.28	70.80	70.40		
DRAIN R	81.28	81.22	81.17	81.11	80.98	80.85	80.73	80.60	80.47	80.31	80.03	79.75	79.38	78.98	78.58	78.16	77.61	77.05	76.50	75.88	75.23	74.59	73.95	73.36	72.76	72.16	71.57	71.11	70.67		

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

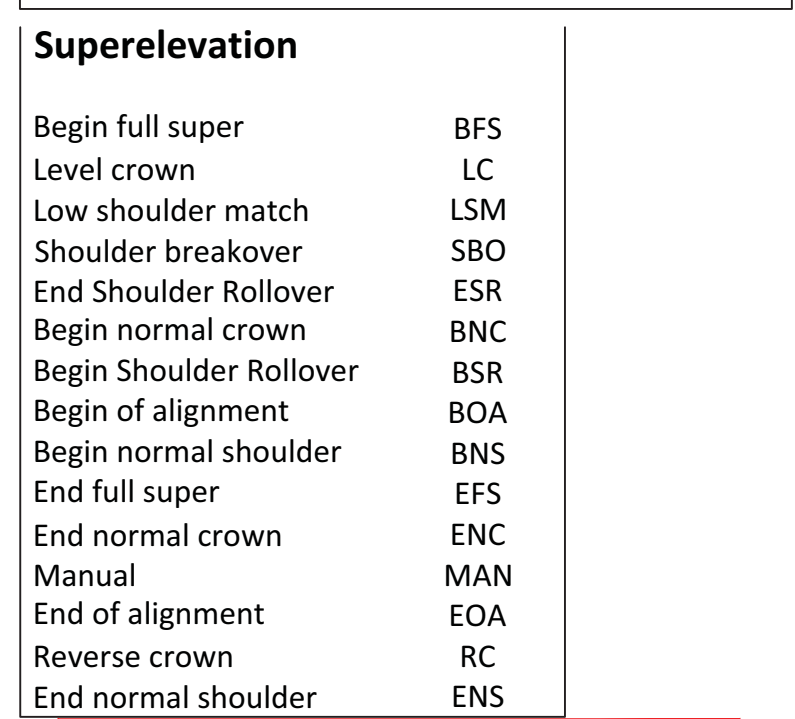
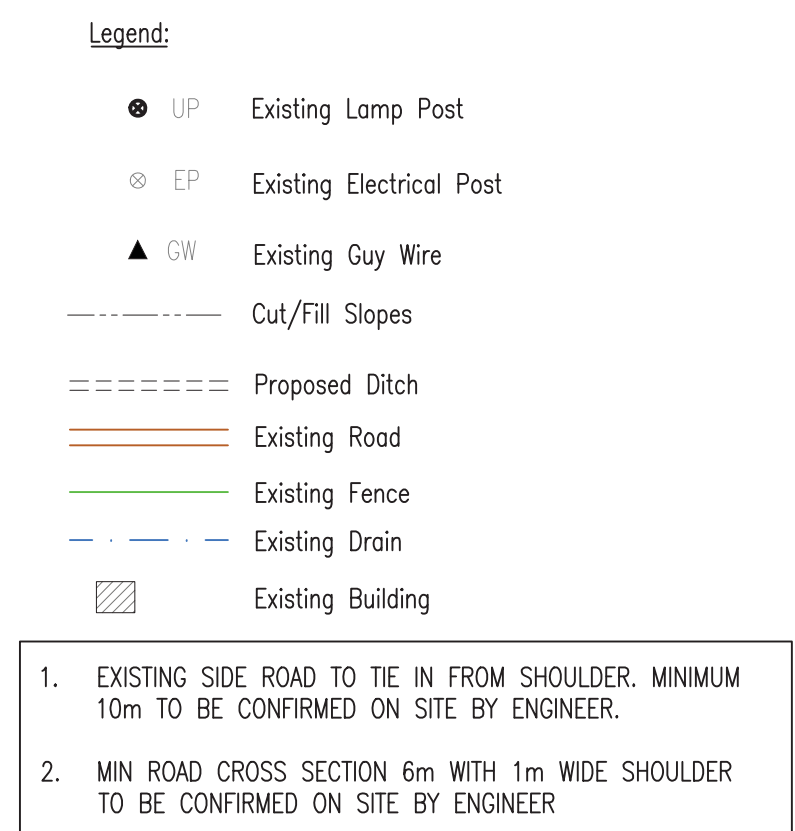
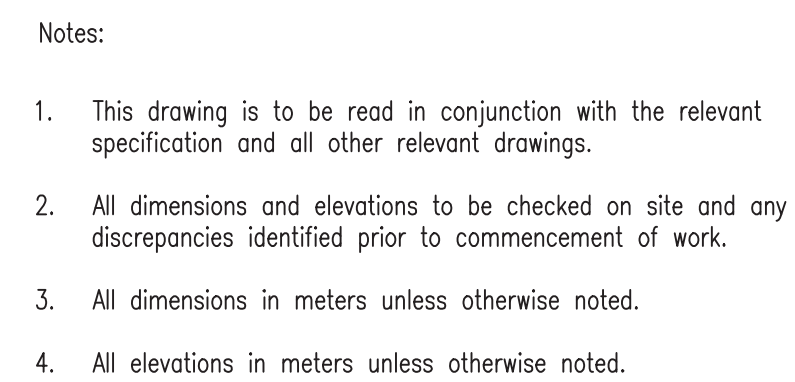
PLAN & PROFILE SEC. 3 - STA.21+805 TO 22+067

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016


Drawing No. **GPHRP-050-S3-D323** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1



Employer: GOVERNMENT OF BELIZE

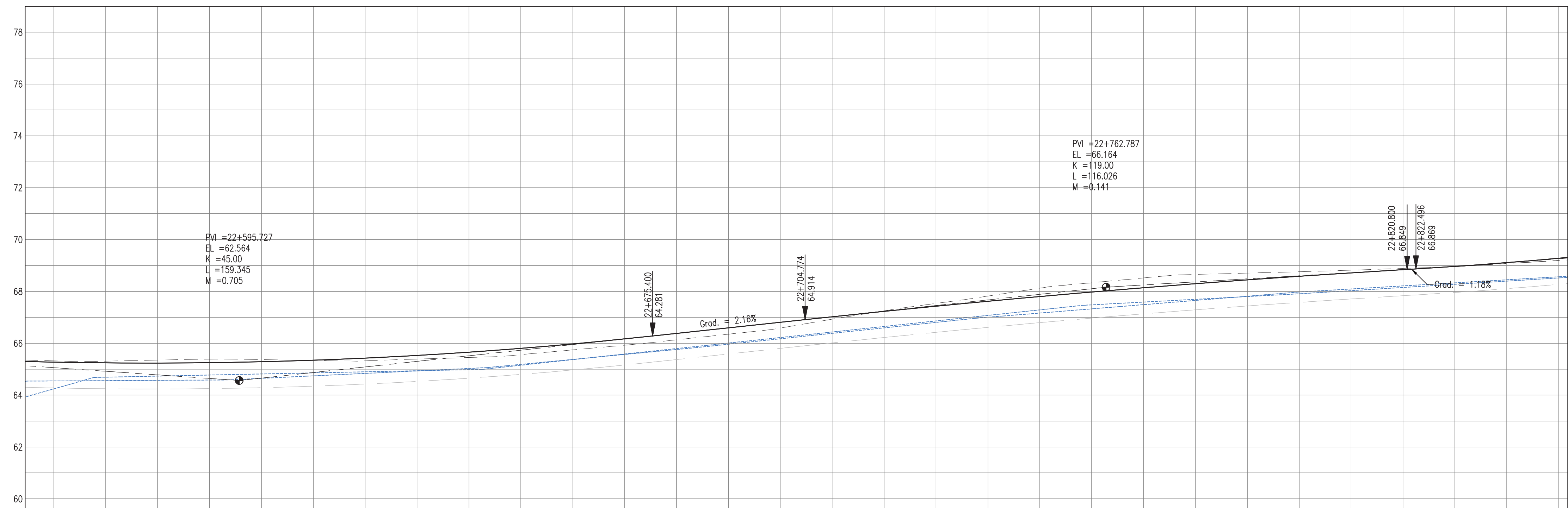
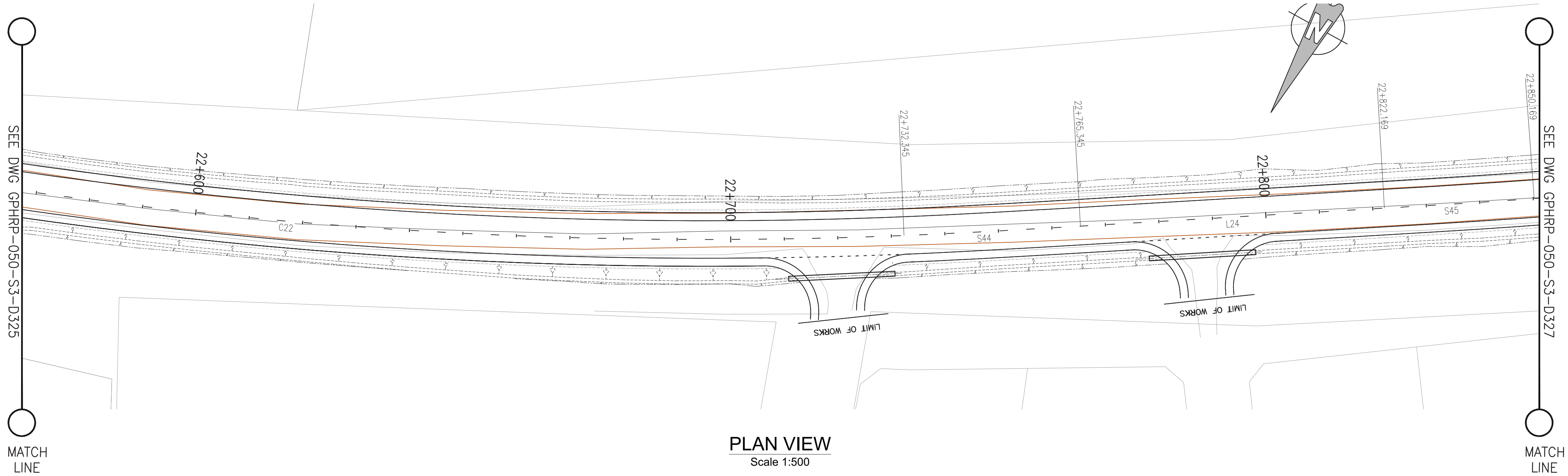
 **Ministry of Works**
Belmopan,
Belize, C.A.

ch2m.SM

PLAN & PROFILE SEC. 3 - STA.22+329 TO 22+591

Drawing No.	Revision
GPHRP-050-S3-D325	D

Plot Scale: 1:1



PROPOSED	63.27	63.24	63.24	63.25	63.29	63.35	63.43	63.53	63.66	63.81	63.98	64.17	64.38	64.60	64.81	65.03	65.23	65.43	65.62	65.80	65.98	66.14	66.30	66.45	66.59	66.72	66.84	66.96	67.11	67.28
SURVEY	63.32	63.31	63.35	63.39	63.37	63.34	63.32	63.39	63.45	63.56	63.74	63.93	64.13	64.35	64.59	64.93	65.25	65.54	65.82	66.13	66.33	66.52	66.65	66.71	66.76	66.82	66.89	66.96	67.10	67.26
HORIZ. ALIGN.	R=900.00 L=230.71										CL=33.00										D=56.82									
VERT. ALIGN.	K=45.000 R=4500.00										L=29.37-6=Z.155%										K=119.000 R=11900.00									
STATION	22+560	22+570	22+580	22+590	22+600	22+610	22+620	22+630	22+640	22+650	22+660	22+670	22+680	22+690	22+700	22+710	22+720	22+730	22+740	22+750	22+760	22+770	22+780	22+790	22+800	22+810	22+820	22+830	22+840	22+850
SUPERELEVATION																														
DRAIN L	62.55	62.56	62.57	62.58	62.65	62.74	62.84	62.93	63.03	63.19	63.38	63.57	63.76	63.96	64.17	64.39	64.60	64.81	65.00	65.17	65.33	65.49	65.65	65.82	65.98	66.10	66.21	66.33	66.45	66.57
DRAIN R	62.25	62.69	62.73	62.78	62.82	62.86	62.90	62.94	62.98	63.15	63.37	63.59	63.80	64.01	64.22	64.44	64.65	64.86	65.08	65.29	65.48	65.59	65.70	65.80	65.91	66.03	66.15	66.28	66.40	66.52

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

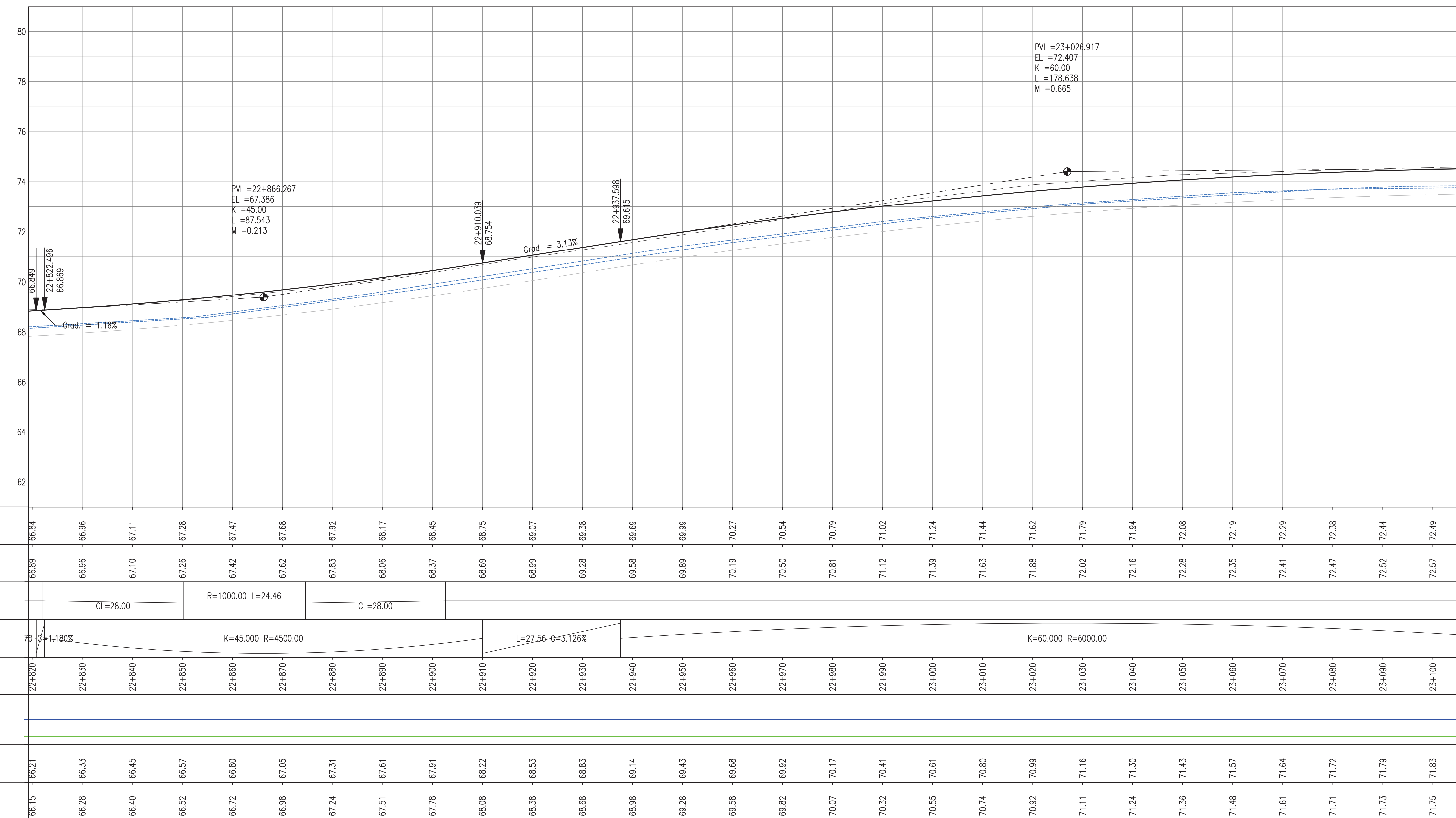
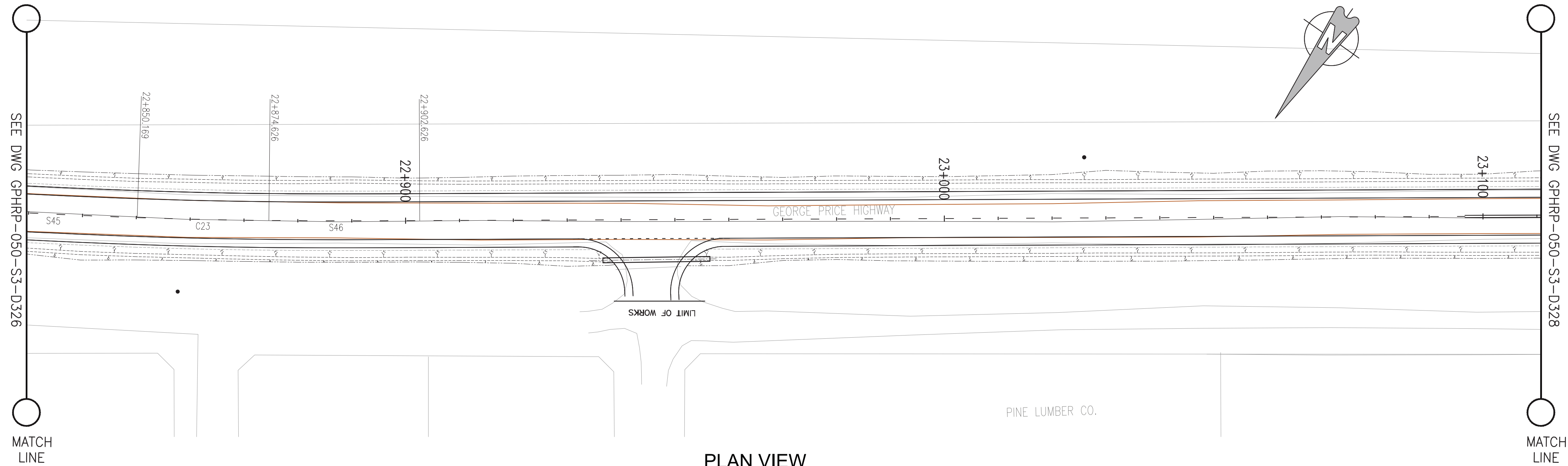
PLAN & PROFILE SEC. 3 - STA.22+591 TO 22+853

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D326** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1



- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works

Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

ch2m

Project

George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.22+853 TO 23+115

Drawn by KA Date: 07 JUL, 2016

Checked by MR Date: 07 JUL, 2016

Authorised by MS Date: 07 JUL, 2016

Drawing No.

GPHRP-050-S3-D327

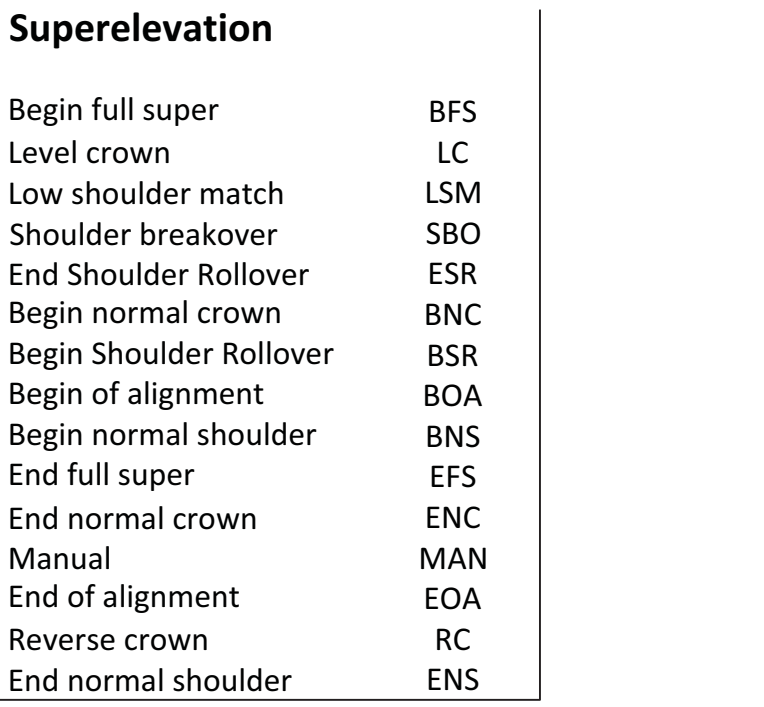
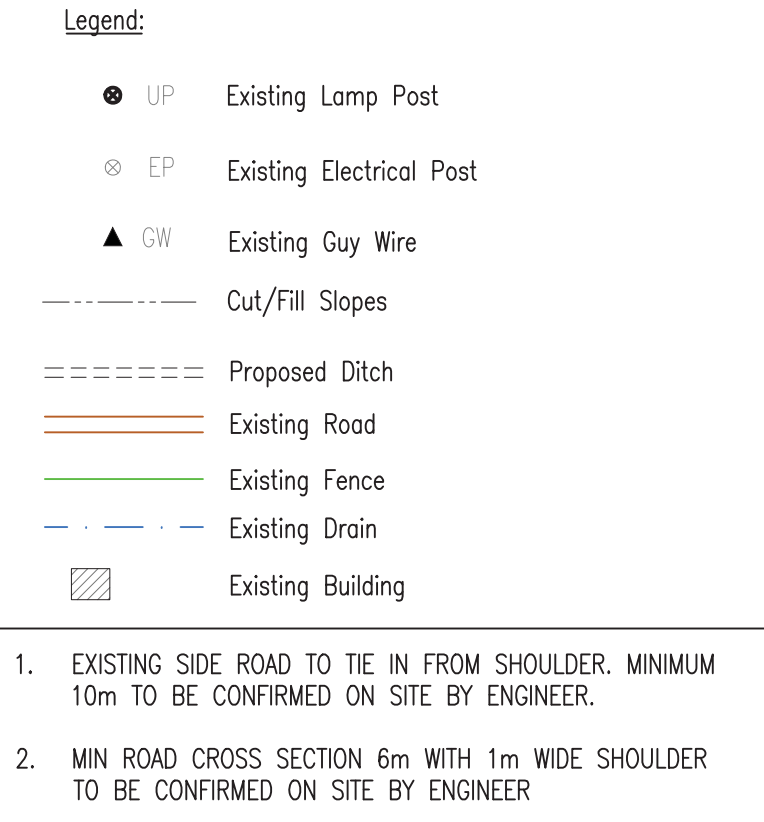
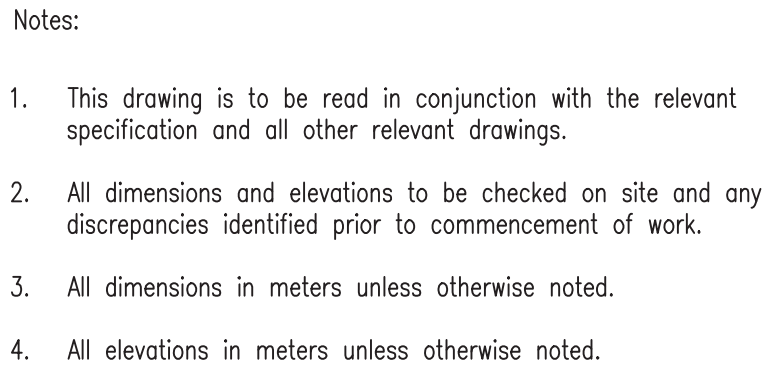
Revision

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Drawing Scale: As noted at A1

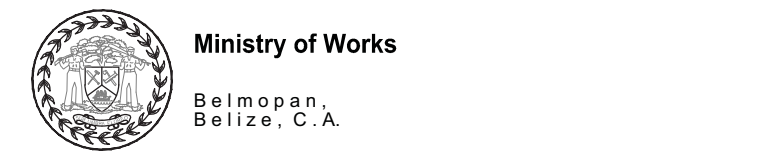
Plot Scale: 1:1

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Reference file path: H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE\GPHRP-050-S3-D327 Plan & Profile SEC. 3 - STA.22+853 to 23+115.dwg
User and Plot Date: 19/07/2017 17:17:10



D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.23+115 TO 23+377

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D328** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1












PROPOSED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</
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Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 3\PLANS\PROFILE\ GPHRP-050-S3-D337 Plan & Profile SEC. 3 - STA.25+432 to 25+735.dwg
Xreference file path : H:\Belize\George Price Highway\ACAD\SECTION 3\PLANS\PROFILE\
User and Plot Date : WS007 : 23:1:2017 - 8:1 pm

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

Legend:

-  UP Existing Lamp Post
 EP Existing Electrical Post
 GW Existing Guy Wire
 Cut/Fill Slopes
 Proposed Ditch
 Existing Road
 Existing Fence
 Existing Drain
 Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel. +1 868 222 7290 Fax +1 868 221 8683
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Project

George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.23+377 TO 23+639

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

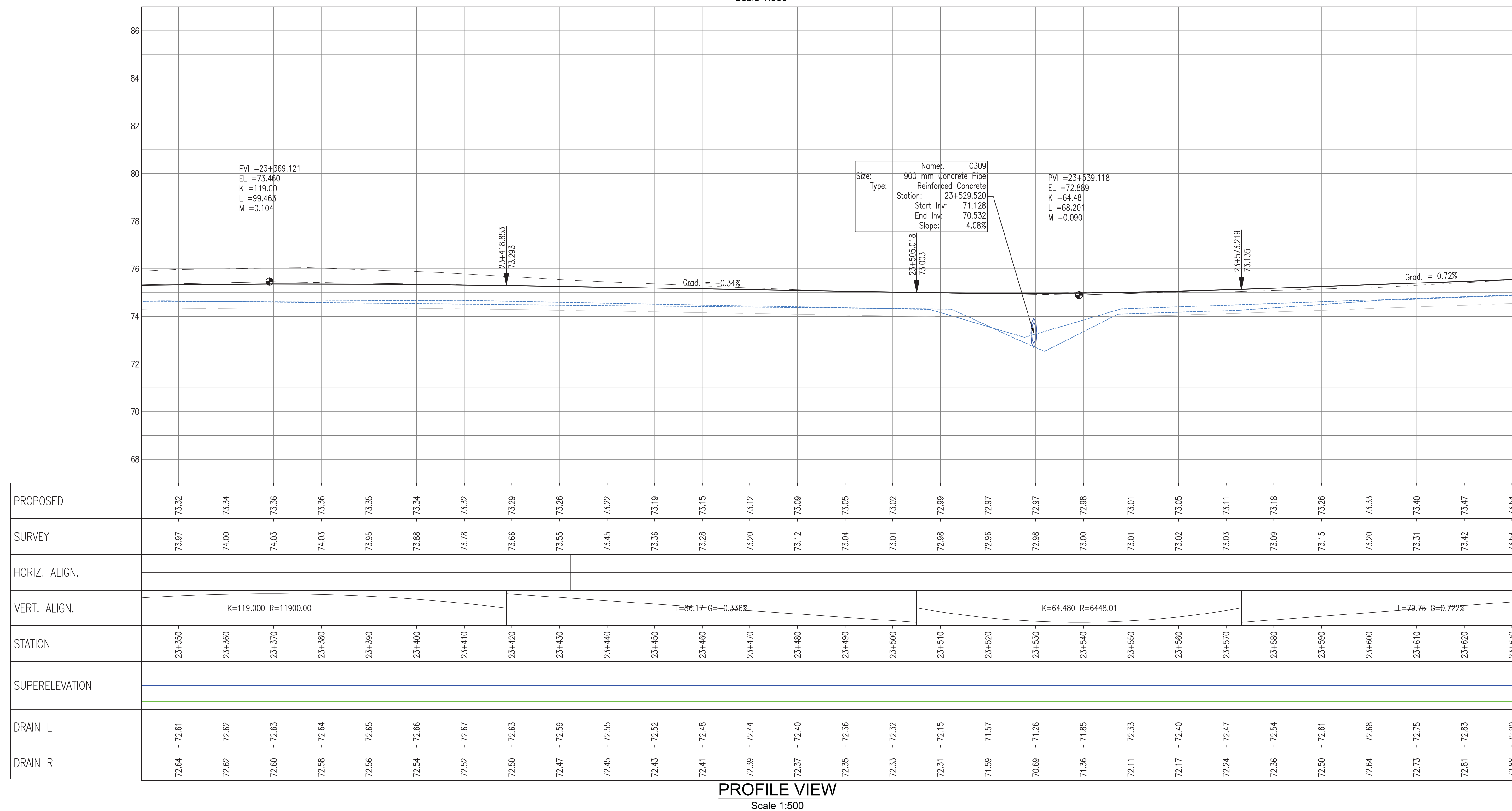
Drawing No.

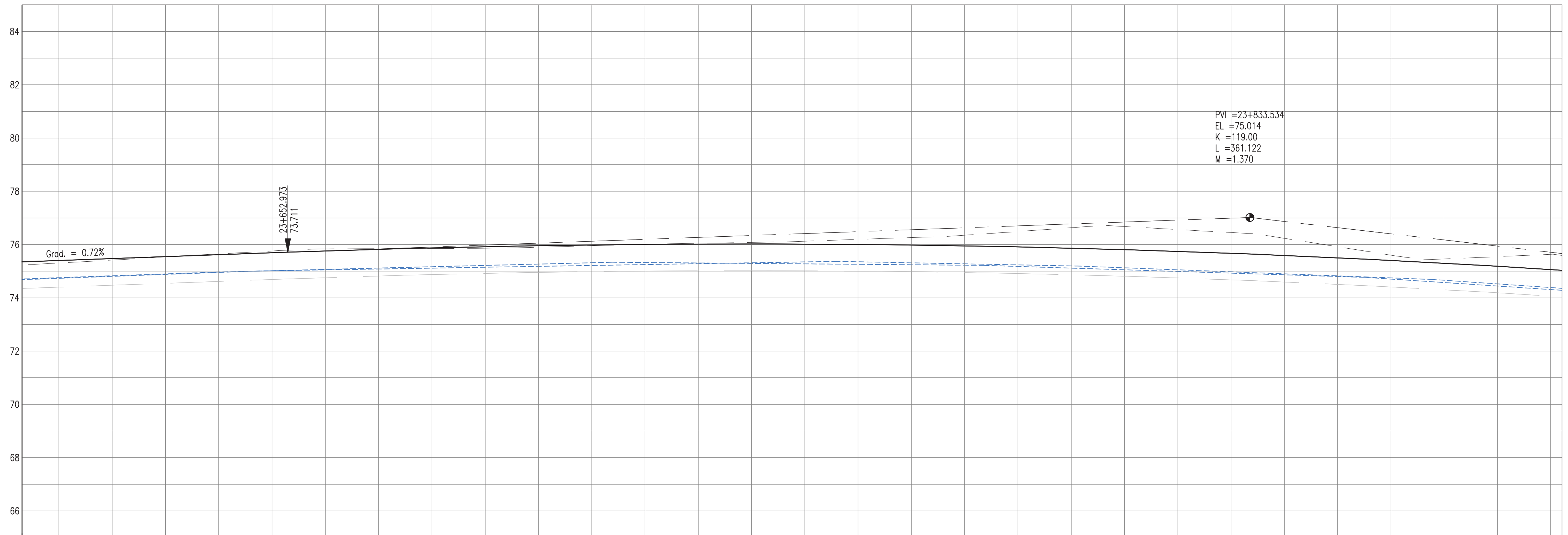
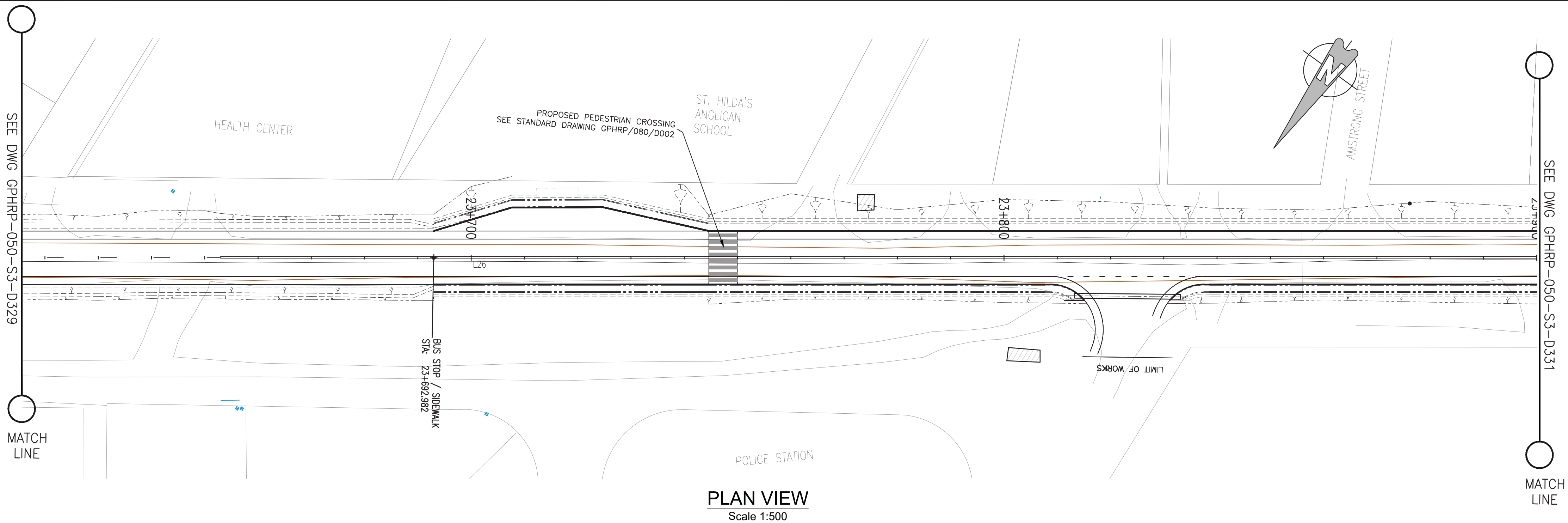
GPHRP-050-S3-D329

D

Drawing Scale: As noted at A1

Plot Scale: 1:1





PROPOSED																																		
SURVEY	73.31	73.40	73.47	73.54	73.62	73.69	73.76	73.84	73.82	73.85	73.88	73.86	73.92	73.96	73.99	74.01	74.01	74.02	74.02	74.02	74.00	73.98	73.95	73.91	73.86	73.81	73.74	73.67	73.59	73.50	73.40	73.30	73.18	73.06
HORIZ. ALIGN.	D=538.37																																	
VERT. ALIGN.	L=79.75 G=0.722%					K=119.000 R=11900.00																												
STATION	23+610	23+620	23+630	23+640	23+650	23+660	23+670	23+680	23+690	23+700	23+710	23+720	23+730	23+740	23+750	23+760	23+770	23+780	23+790	23+800	23+810	23+820	23+830	23+840	23+850	23+860	23+870	23+880	23+890					
SUPERELEVATION																																		
DRAIN L	72.75	72.83	72.90	72.97	73.02	73.07	73.12	73.17	73.22	73.27	73.32	73.32	73.31	73.29	73.27	73.26	73.24	73.22	73.18	73.11	73.05	72.99	72.92	72.86	72.80	72.70	72.57	72.44	72.31					
DRAIN R	72.73	72.81	72.88	72.95	73.01	73.05	73.08	73.11	73.15	73.18	73.21	73.25	73.28	73.31	73.35	73.35	73.31	73.27	73.23	73.20	73.12	73.05	73.05	72.97	72.90	72.82	72.75	72.66	72.52	72.38				

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 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - ▨ Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SB0
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
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Project
George Price Highway
Rehabilitation Project

Drawing Title

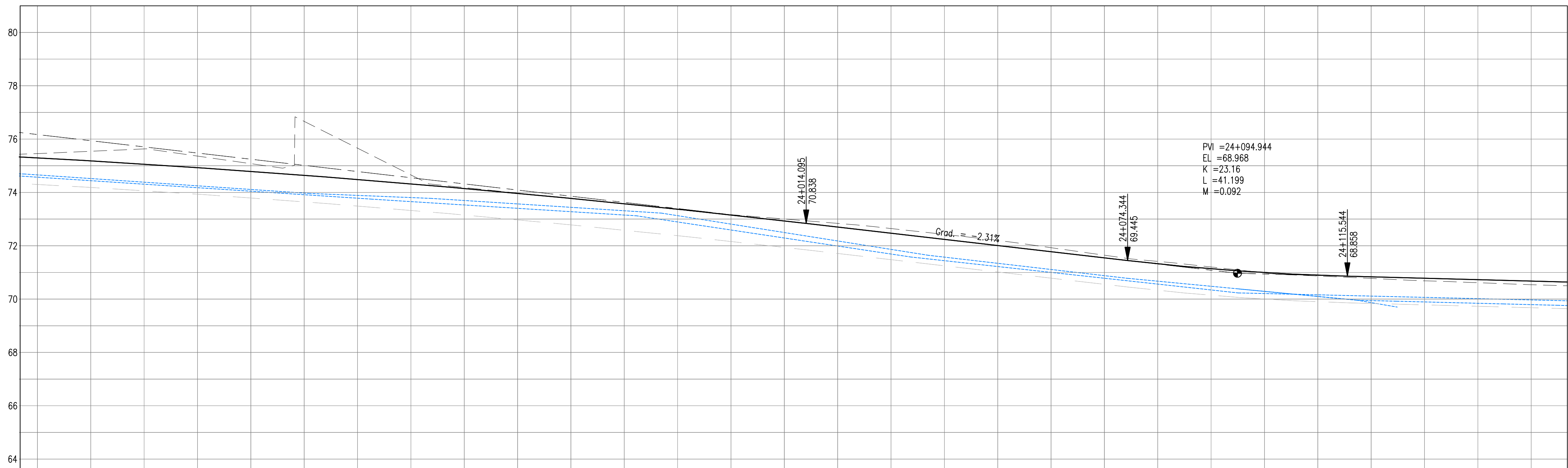
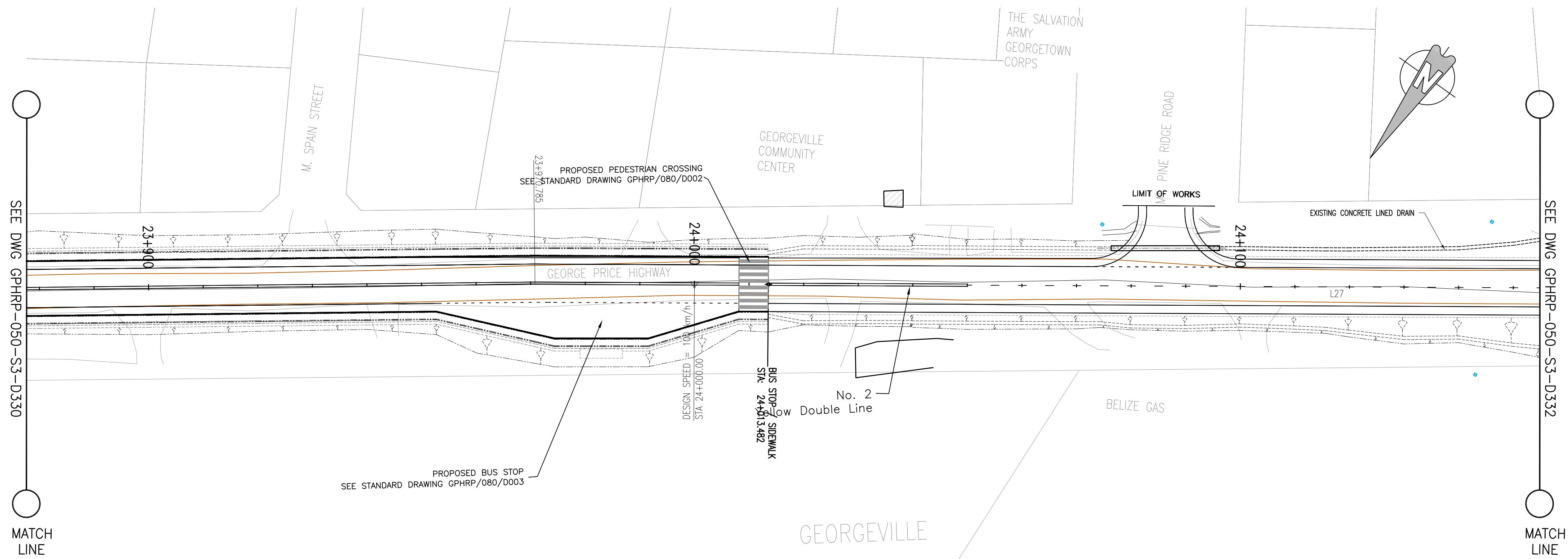
PLAN & PROFILE SEC. 3 - STA.23+639 TO 23+901

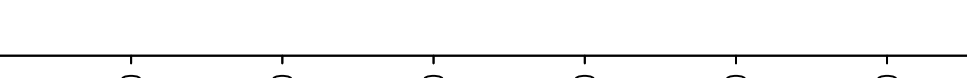
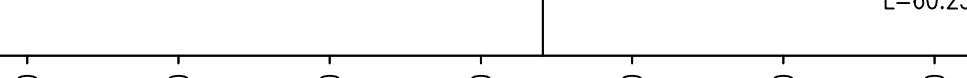
Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D330** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1



PROPOSED		73.30		73.18		73.06		72.93		72.79		72.64		72.49		72.32		72.15		71.97		71.78		71.58		71.37		71.16		70.93		70.70		70.47		70.24		70.01		69.78		69.55		69.32		69.14		68.99		68.89		68.83		68.78		68.73		68.67						
SURVEY		73.46		73.54		73.63		73.36		73.08		74.66		73.66		72.66		72.18		71.98		71.77		71.57		71.36		71.17		71.00		70.84		70.65		70.43		70.20		69.93		69.65		69.41		69.32		69.20		68.98		68.87		68.78		68.68		68.78		68.61		68.73		68.54
HORIZ. ALIGN.																						D=293.86																																										
VERT. ALIGN.																																																																
STATION		23+870		23+880		23+890		23+900		23+910		23+920		23+930		23+940		23+950		23+960		23+970		23+980		23+990		24+000		24+010		24+020		24+030		24+040		24+050		24+060		24+070		24+080		24+090		24+100		24+110		24+120		24+130		24+140		24+150						
SUPERELEVATION																																																																
DRAIN L		72.57		72.44		72.31		72.18		72.05		71.91		71.78		71.66		71.53		71.40		71.28		71.15		70.89		70.59		70.29		69.99		69.69		69.44		69.22		69.00		68.78		68.56		68.34		68.21		68.16		68.11		68.06		68.02		67.97						
DRAIN R		72.66		72.52		72.38		72.25		72.11		71.97		71.89		71.81		71.70		71.57		71.44		71.31		71.13		70.81		70.49		70.18		69.86		69.57		69.34		69.11		68.88		68.67		68.48		68.29		68.10		67.94		67.89		67.84		67.79						

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 - All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- - - - - Cut/Fill Slopes
- - - - - Proposed Ditch
- - - - - Existing Road
- - - - - Existing Fence
- - - - - Existing Drain
- ▨ Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	06.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

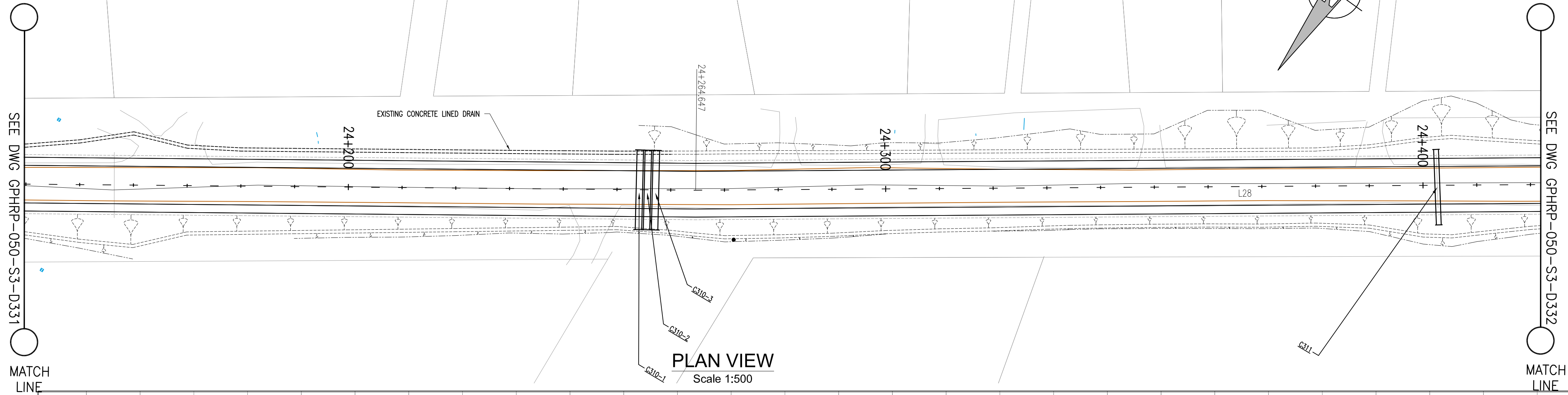
PLAN & PROFILE SEC. 3 - STA.23+901 TO 24+163

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S3-D331	D

Drawing Scale: As noted at A1

Plot Scale: 1:1



Notes:

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- All elevations in meters unless otherwise noted.

Legend:

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Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	06.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	14.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project
George Price Highway
Rehabilitation Project

Drawing Title

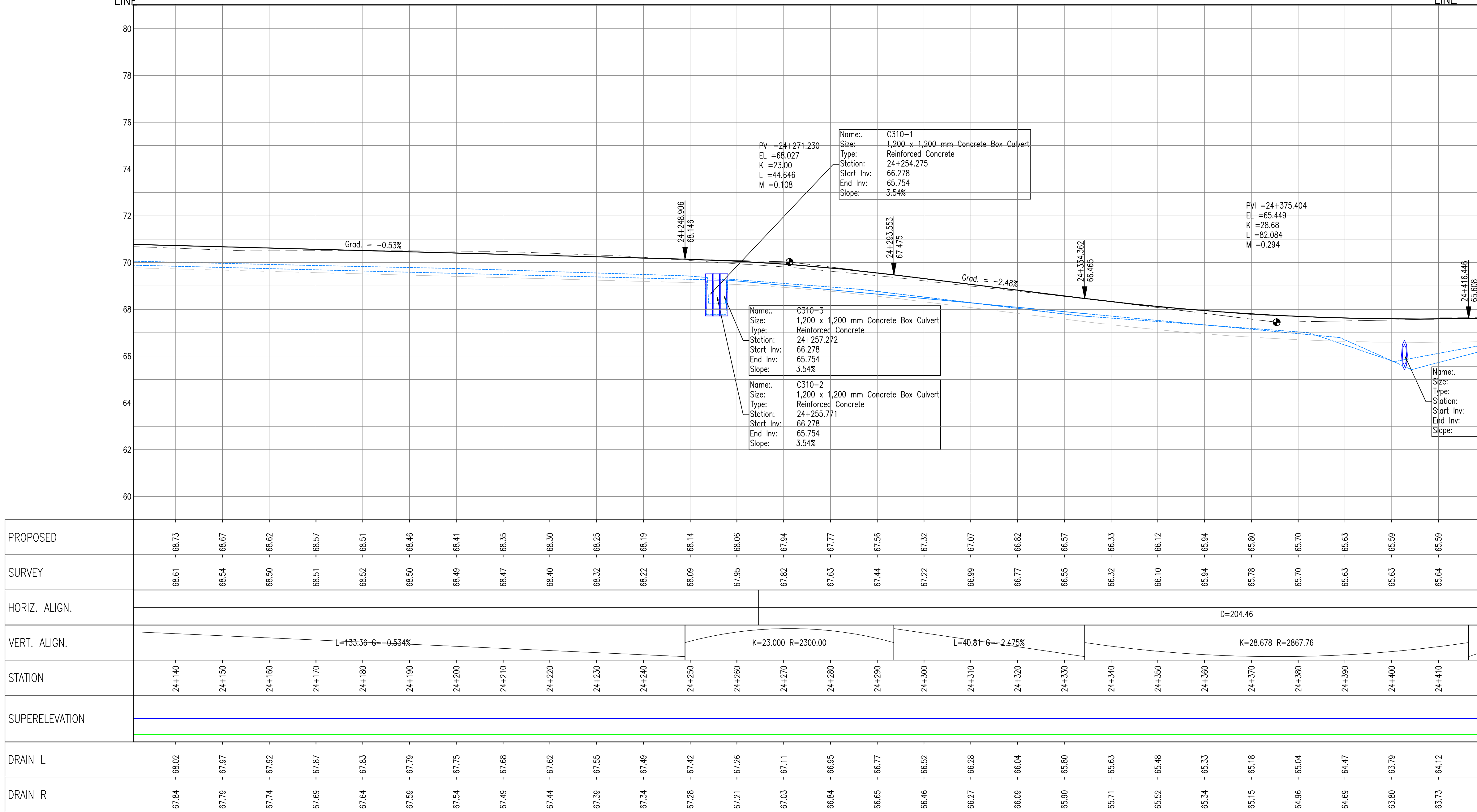
PLAN & PROFILE SEC. 3 - STA.24+163 TO 24+425

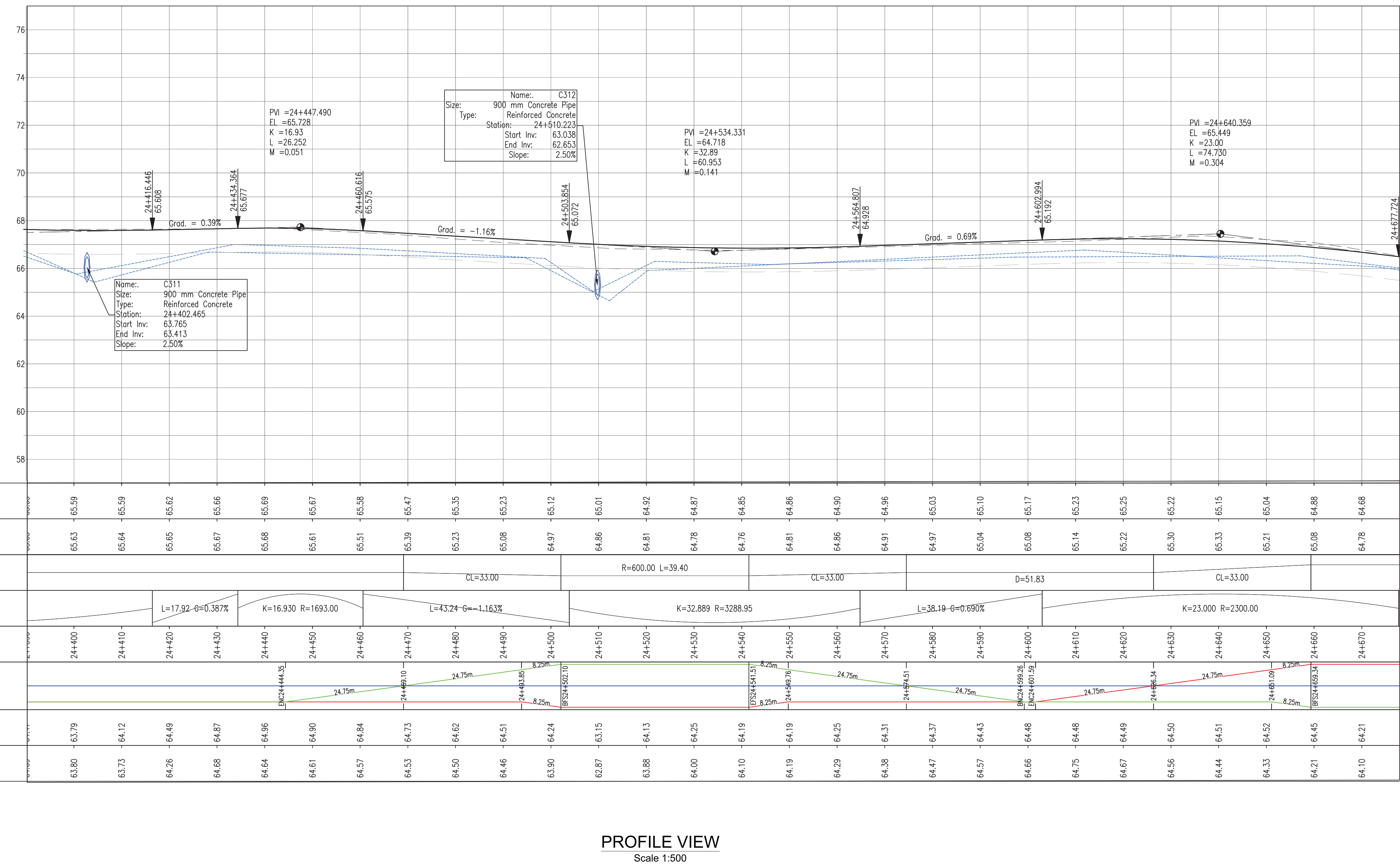
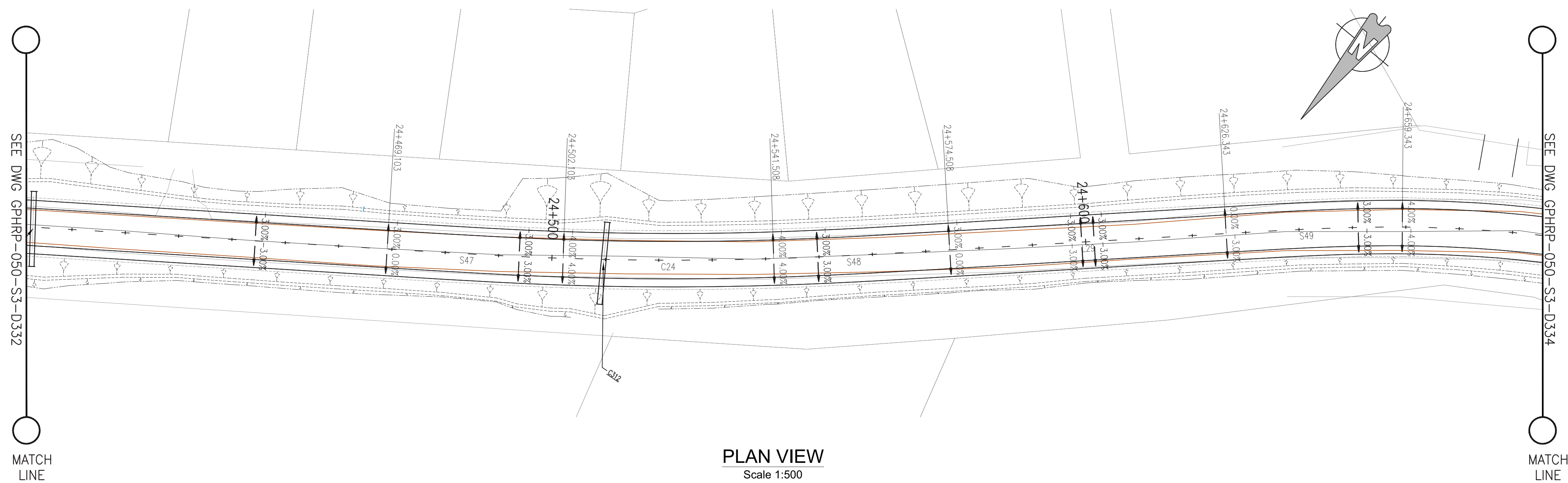
Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

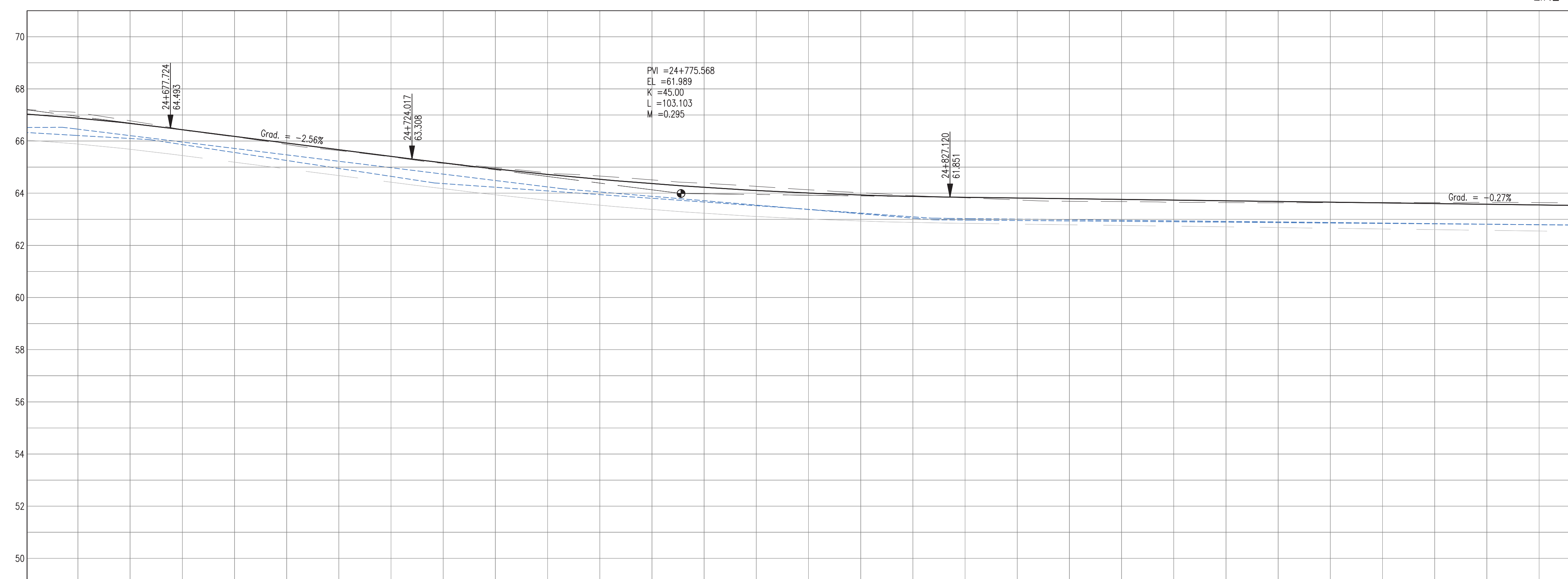
Drawing No. GPHRP-050-S3-D332 Revision
D


Drawing Scale: As noted at A1

Plot Scale: 1:1







- Legend:**
- | | | |
|---|----|--------------------------|
| ⊗ | UP | Existing Lamp Post |
| ⊗ | EP | Existing Electrical Post |
| ▲ | GW | Existing Guy Wire |
| ----- | | Cut/Fill Slopes |
| ===== | | Proposed Ditch |
| ===== | | Existing Road |
| ===== | | Existing Fence |
| - . - . - . | | Existing Drain |
|  | | Existing Building |

- ## Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project

George Price Highway
Rehabilitation Project

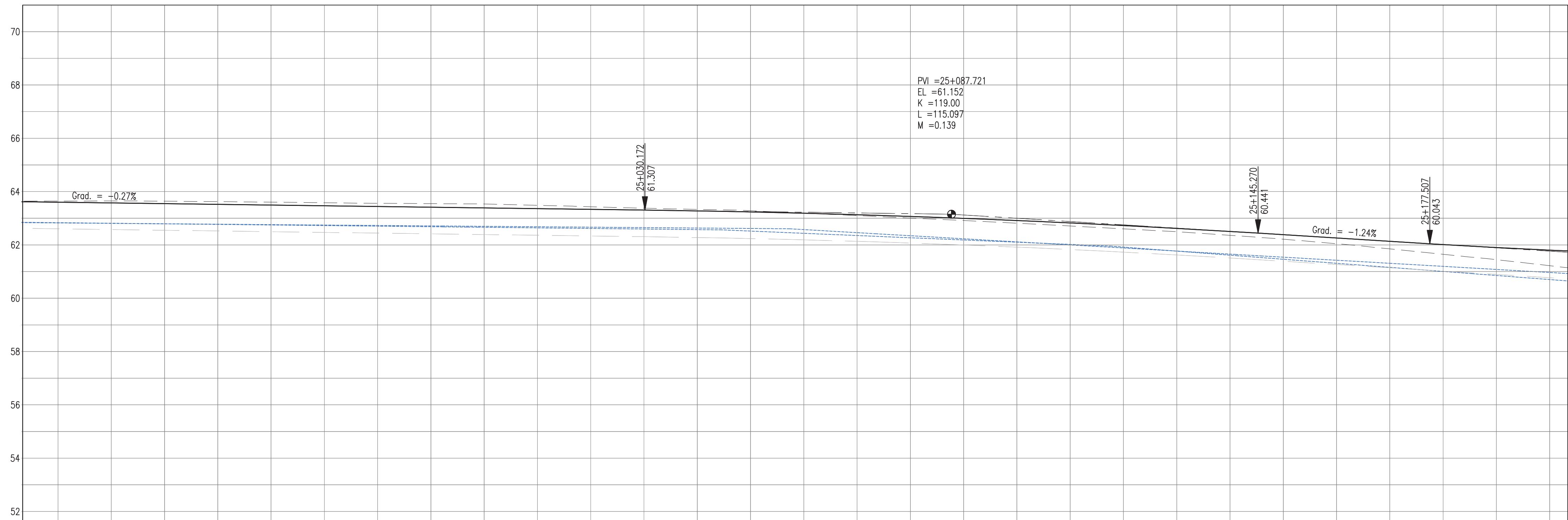
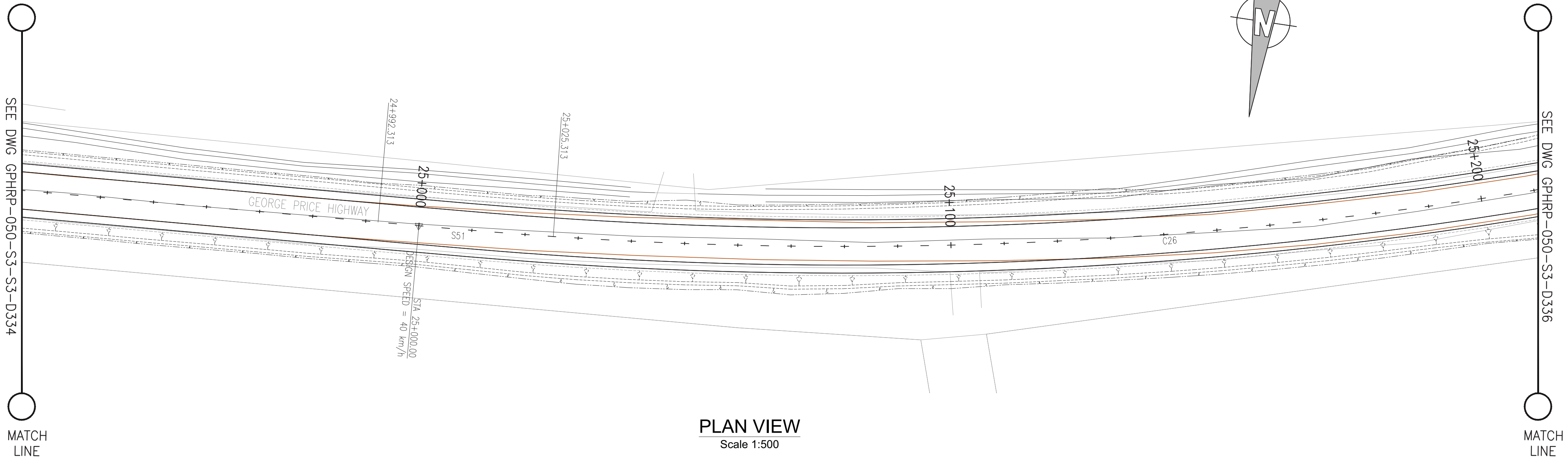
Drawing Title

PLAN & PROFILE SEC. 3 - STA.24+687 TO 24+949

Drawn by KA	Date: 07 JUL, 201
Checked by MR	Date: 07 JUL, 201
Authorised by MS	Date: 07 JUL, 201

Drawing No.	Revision
GPHRP-050-S3-D334	D
Drawing Scale: As noted at A1	
Plot Scale: 1:1	

Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE\GPHRP-050-S3-D337 Plan & Profile SEC. 3 - STA.25+432 to 25+735.dwg
 Reference file path : H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE\



PROPOSED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</
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Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

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- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

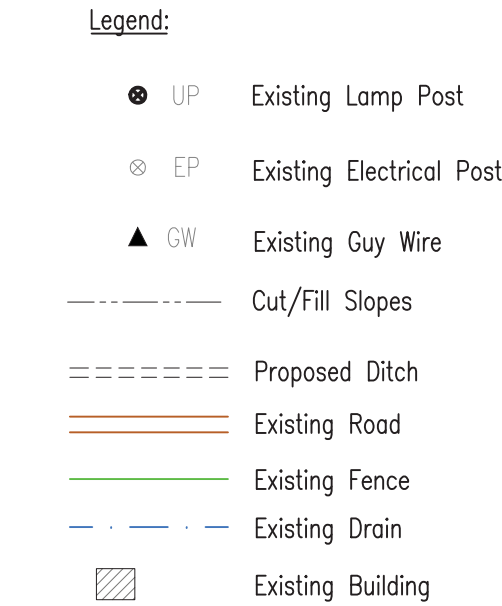
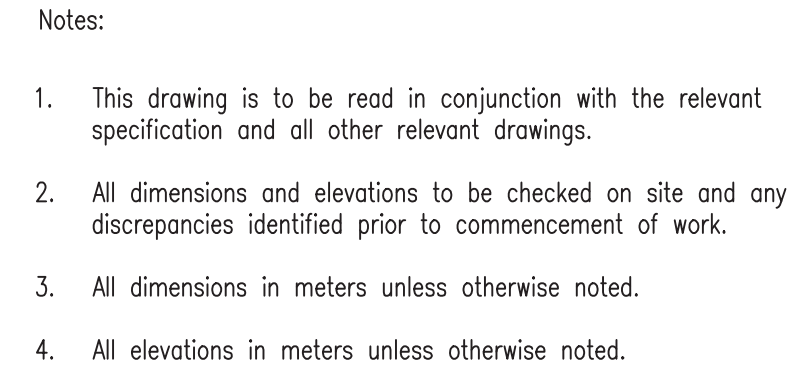
PLAN & PROFILE SEC. 3 - STA.24+949 TO 25+211

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D335** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1



1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakerover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

ch2m.SM

PLAN & PROFILE SEC. 3 - STA.25+211 TO 25+423

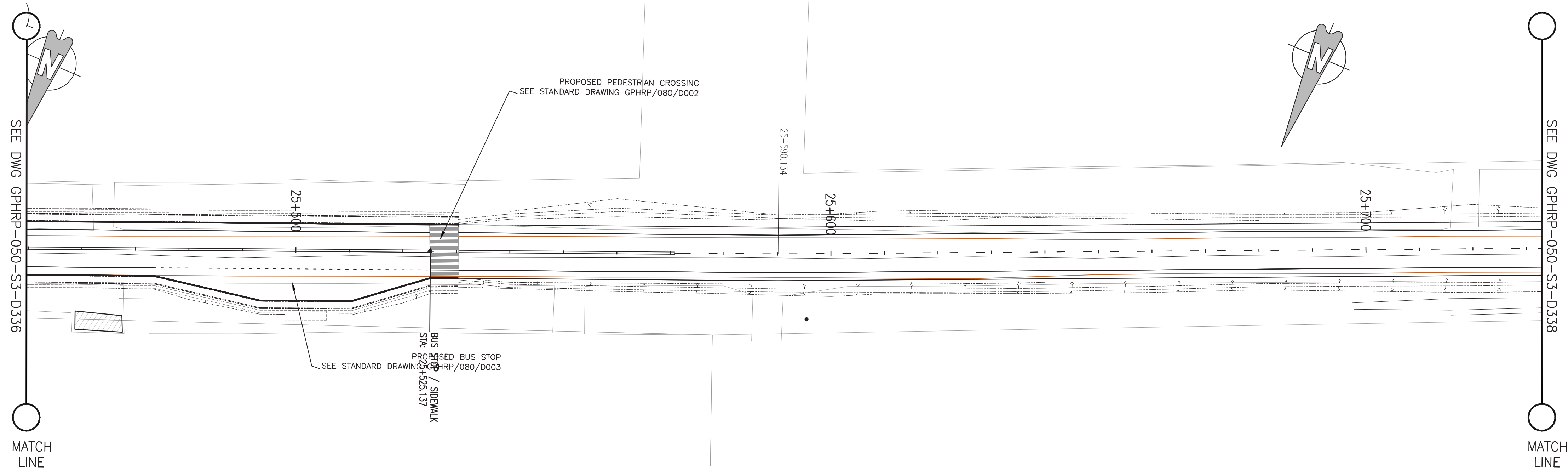
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No. **GPGRP-050-S3-D336** Revision **D**

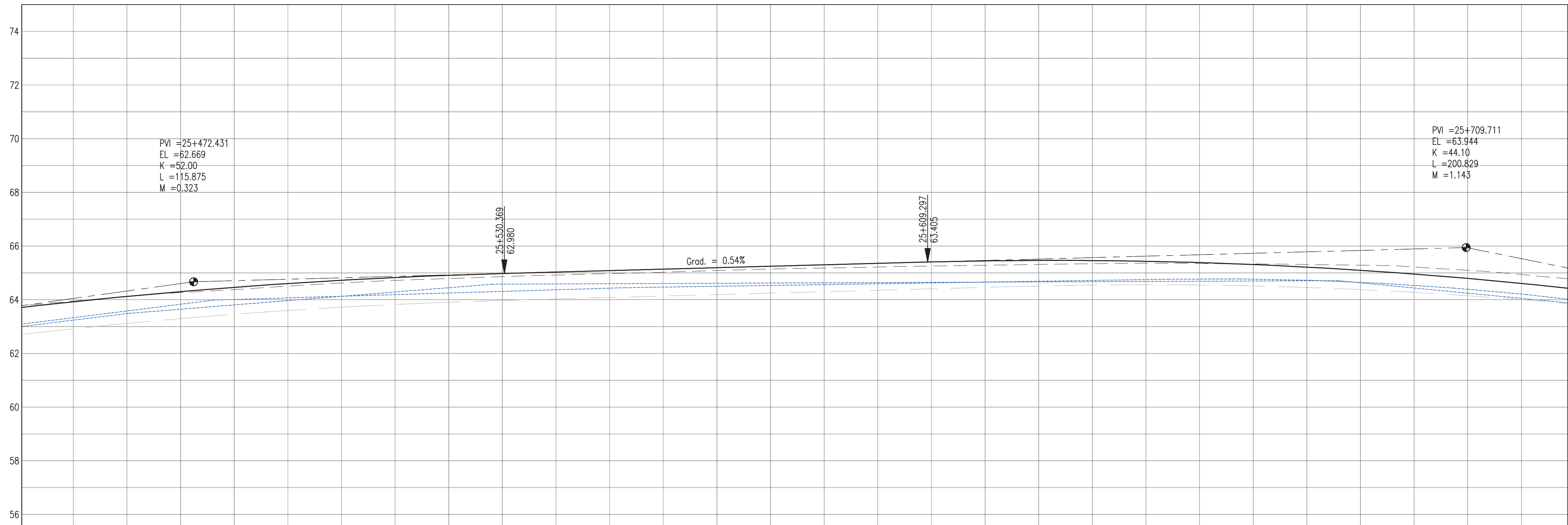
Drawing Scale: As noted at A1

Plot Scale: 1:1





PLAN VIEW
Scale 1:500



PROPOSED	61.93	62.13	62.31	62.47	62.61	62.73	62.83	62.91	62.98	63.03	63.09	63.14	63.19	63.25	63.30	63.35	63.41	63.45	63.47	63.46	63.44	63.39	63.31	63.22	63.10	62.96	62.80	62.61
SURVEY	61.95	62.12	62.27	62.38	62.51	62.62	62.72	62.79	62.86	62.92	62.97	63.03	63.09	63.14	63.18	63.22	63.26	63.29	63.32	63.34	63.36	63.35	63.33	63.31	63.29	63.22	63.10	62.94
HORIZ. ALIGN.	0.39																											
VERT. ALIGN.	K=52.000 R=5200.00 L=78.93 G=0.538% K=44.097 R=4409.67																											
STATION	25+450	25+460	25+470	25+480	25+490	25+500	25+510	25+520	25+530	25+540	25+550	25+560	25+570	25+580	25+590	25+600	25+610	25+620	25+630	25+640	25+650	25+660	25+670	25+680	25+690	25+700	25+710	25+720
SUPERELEVATION																												
DRAIN L	61.33	61.58	61.83	62.01	62.07	62.13	62.19	62.25	62.31	62.37	62.43	62.47	62.50	62.53	62.56	62.60	62.63	62.66	62.69	62.72	62.75	62.77	62.76	62.73	62.64	62.53	62.39	62.21
DRAIN R	61.24	61.49	61.65	61.81	61.97	62.13	62.29	62.45	62.58	62.69	62.80	62.81	62.81	62.82	62.83	62.84	62.85	62.86	62.86	62.87	62.88	62.89	62.90	62.91	62.92	62.93	62.94	62.95

PROFILE VIEW
Scale 1:500

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
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4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
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1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.25+432 TO 25+735

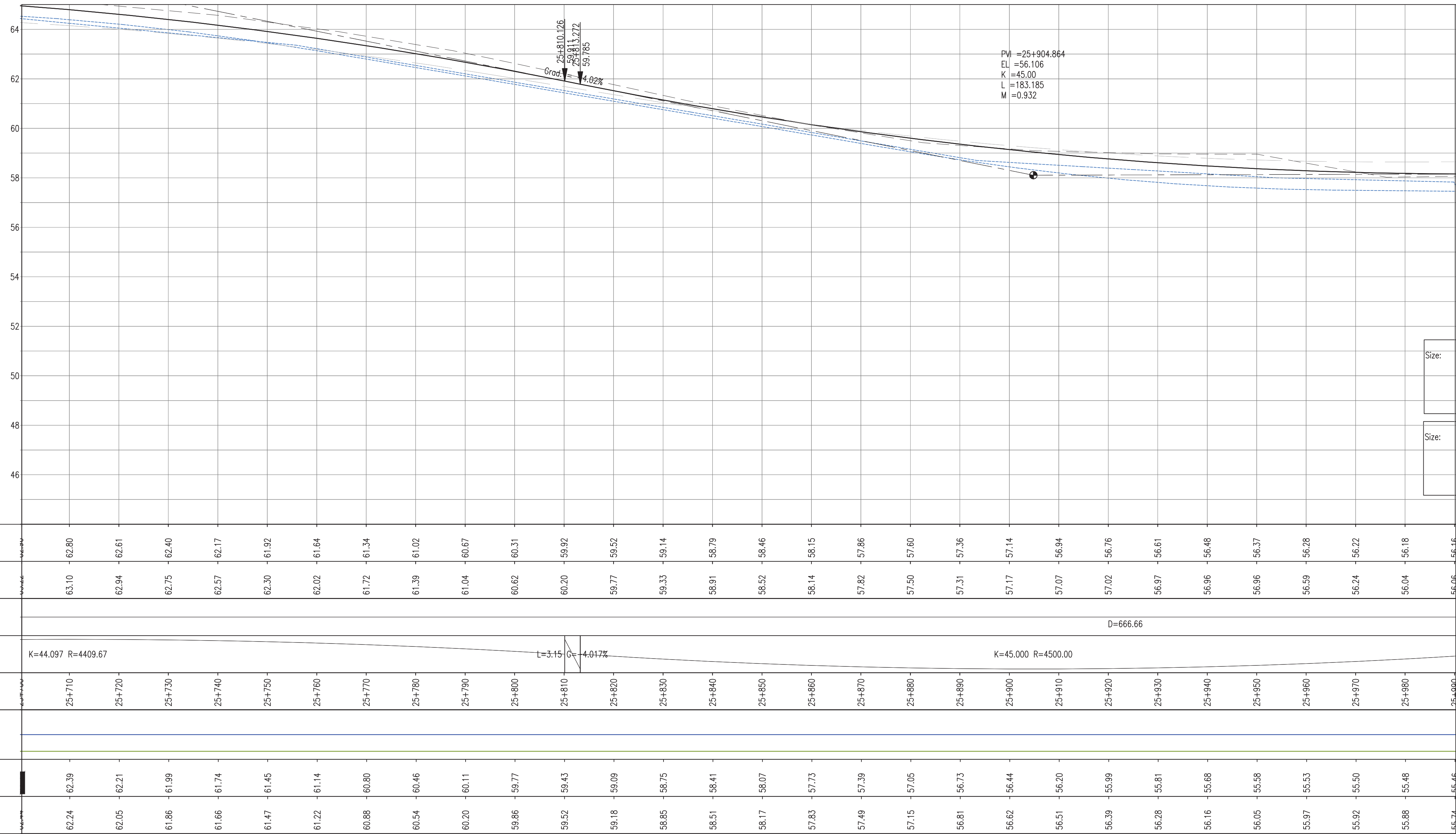
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S3-D337	D

Drawing Scale: As noted at A1

Plot Scale: 1:1

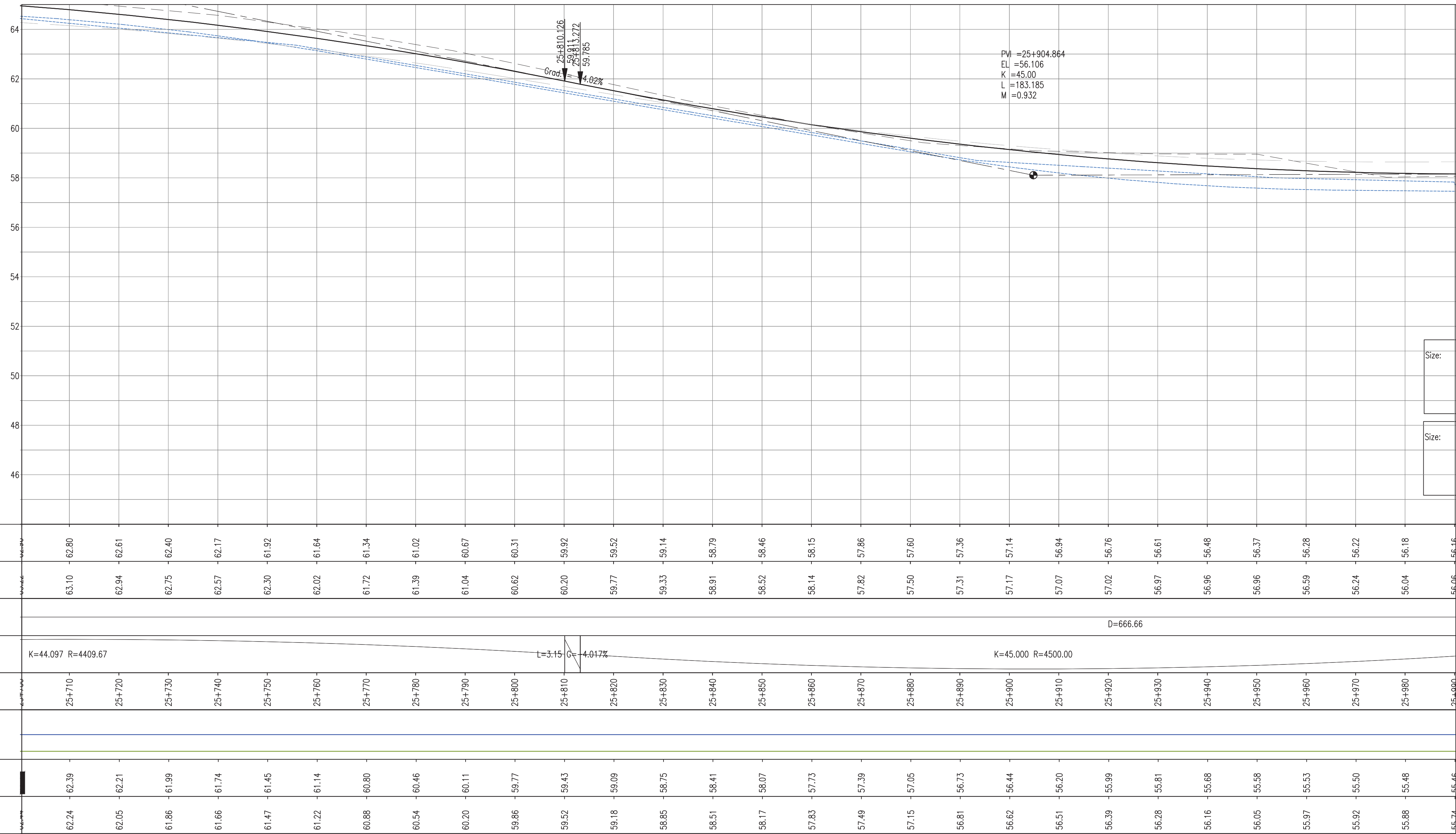
SEE DWG GPHRP-050-S3-D337
MATCH LINE



PROFILE VIEW
Scale 1:500

SEE DWG GPHRP-050-S3-D337

MATCH LINE



PLAN VIEW
Scale 1:500

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Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

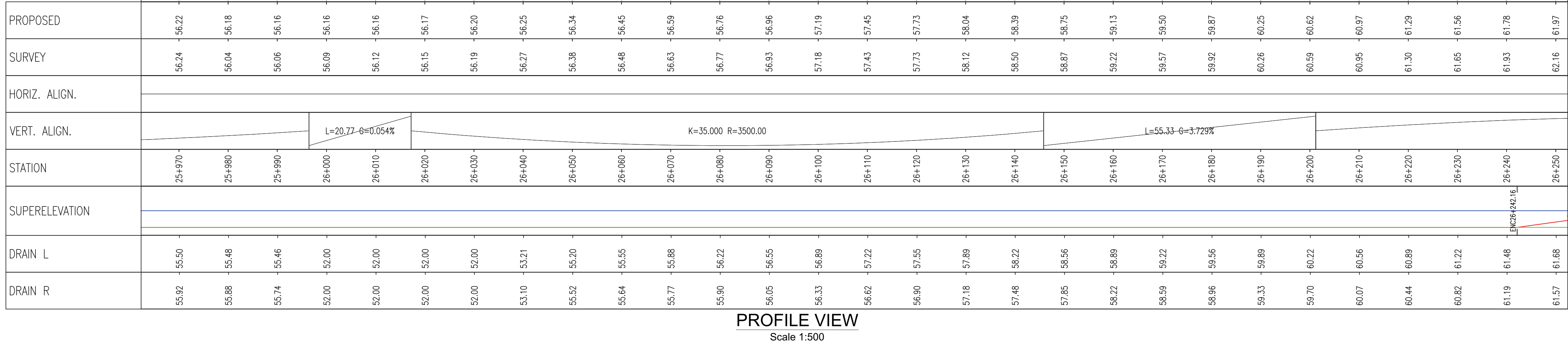
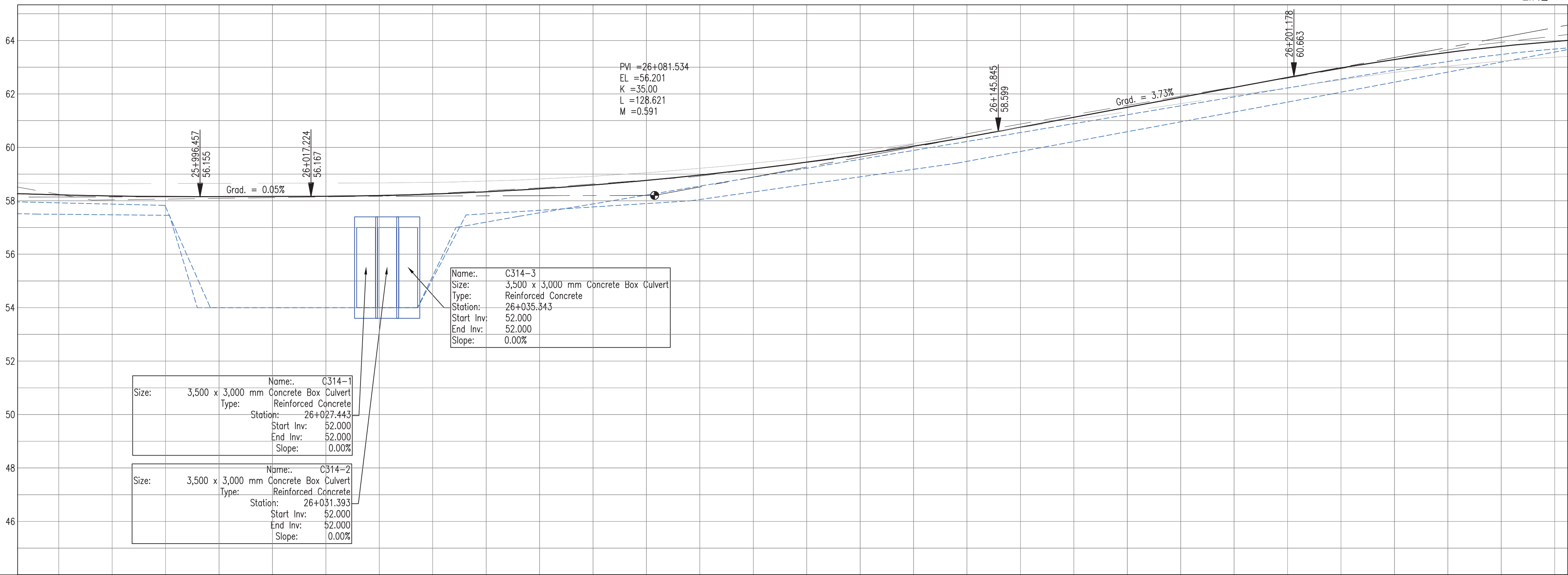
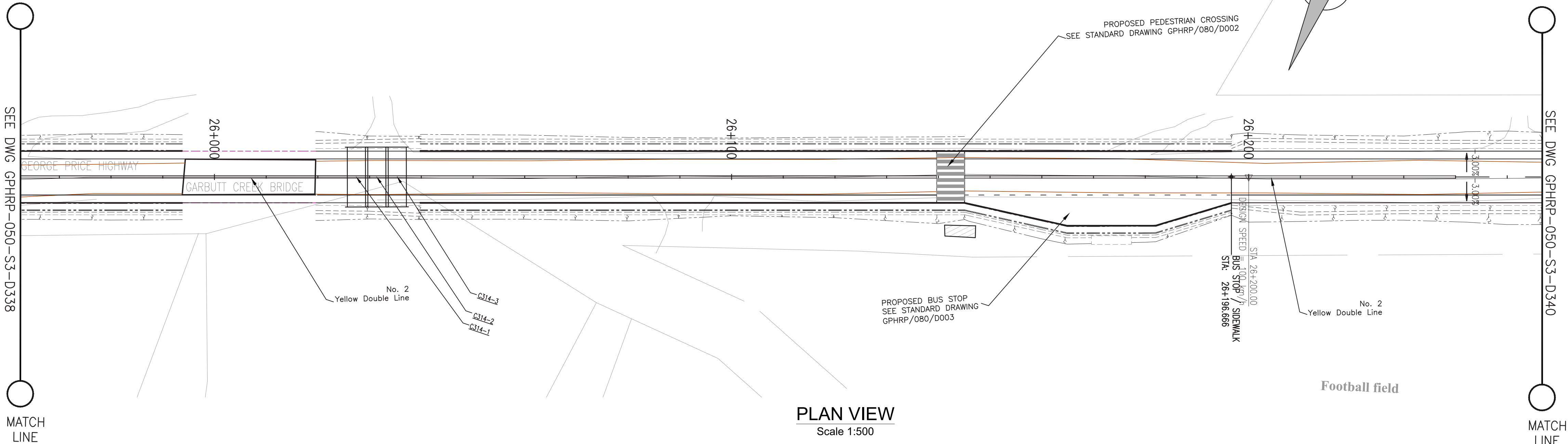
PLAN & PROFILE SEC. 3 - STA.25+735 TO 25+997

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D338** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1:1



- Notes:
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100% FINAL DESIGN

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 - Cut/Fill Slopes
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Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

F	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
E	KA	MR	MS	16.11.16	100% FINAL DESIGN NEW CARBUTT BRIDGE ADDED
D	KA	MR	MS	28.10.16	100% FINAL DESIGN
C	KA	MR	MS	14.10.16	100% DRAFT DESIGN
B	KA	MR	MS	3.07.16	CARBUTT PROFILE LOWERED TO BRIDGE DECK LEVEL
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

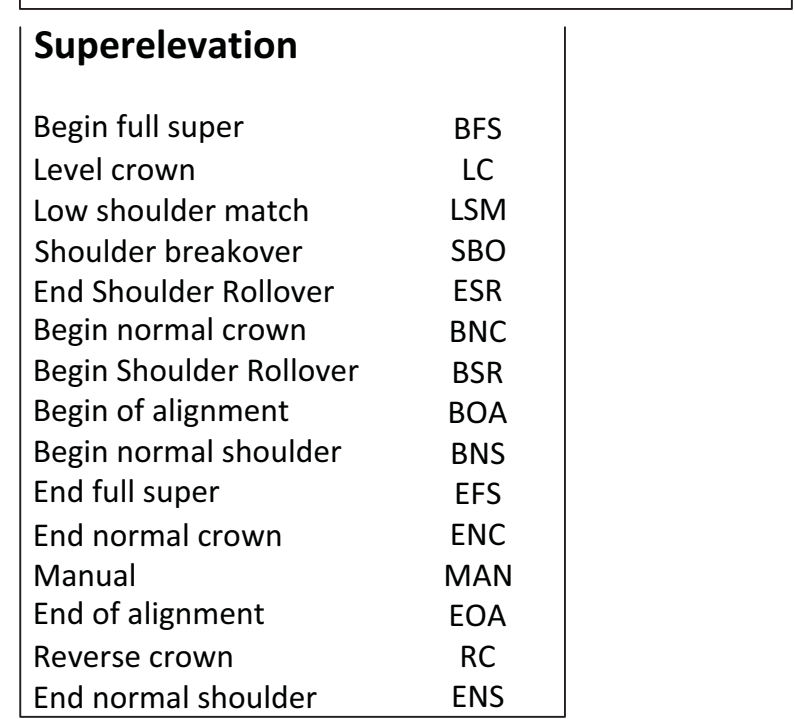
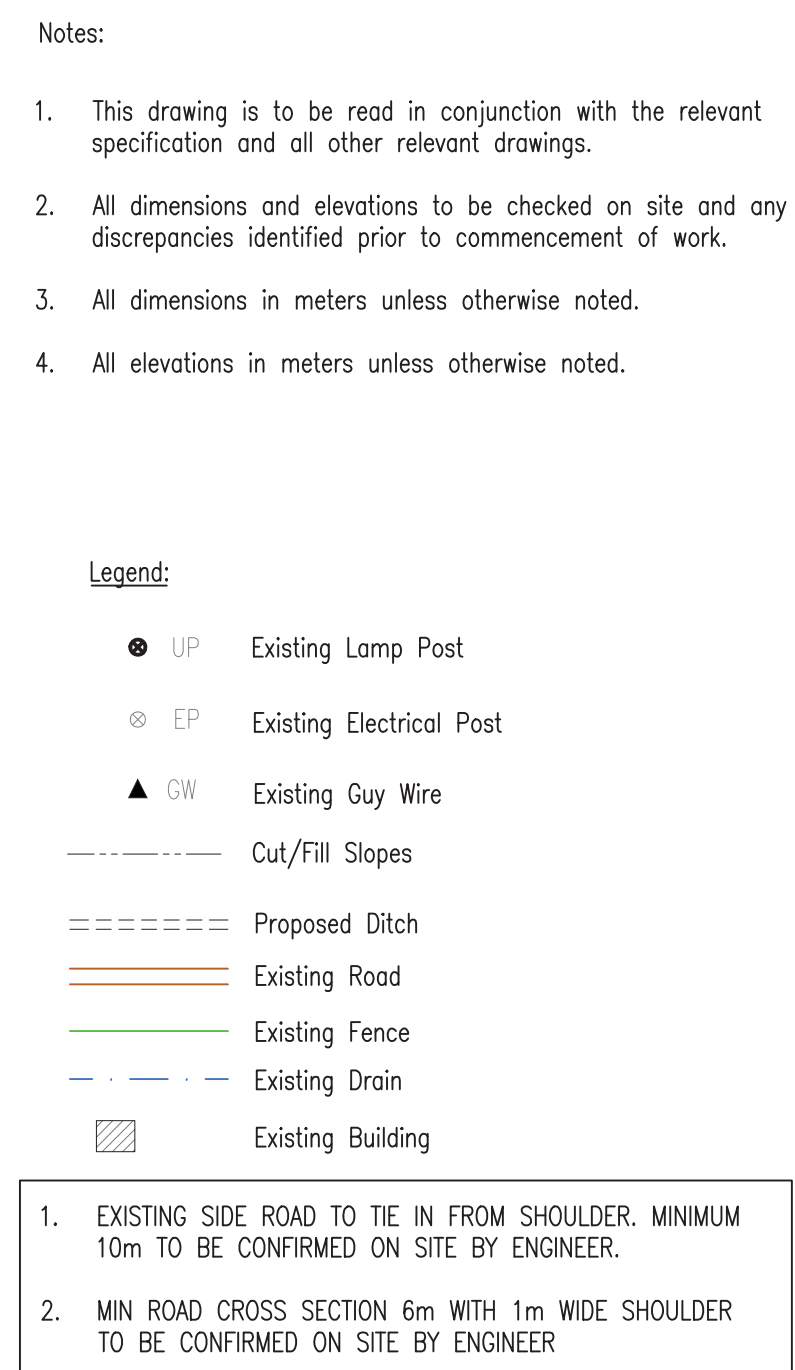
PLAN & PROFILE SEC. 3 - STA.25+997 TO 26+259

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S3-D339	F

Drawing Scale: As noted at A1

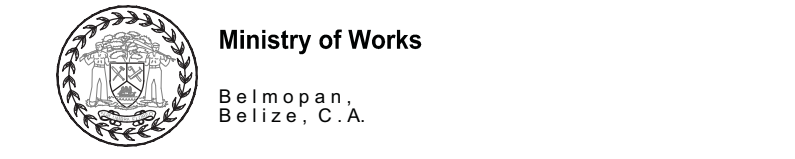
Plot Scale: 1:1



100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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Project

George Price Highway
Rehabilitation Project

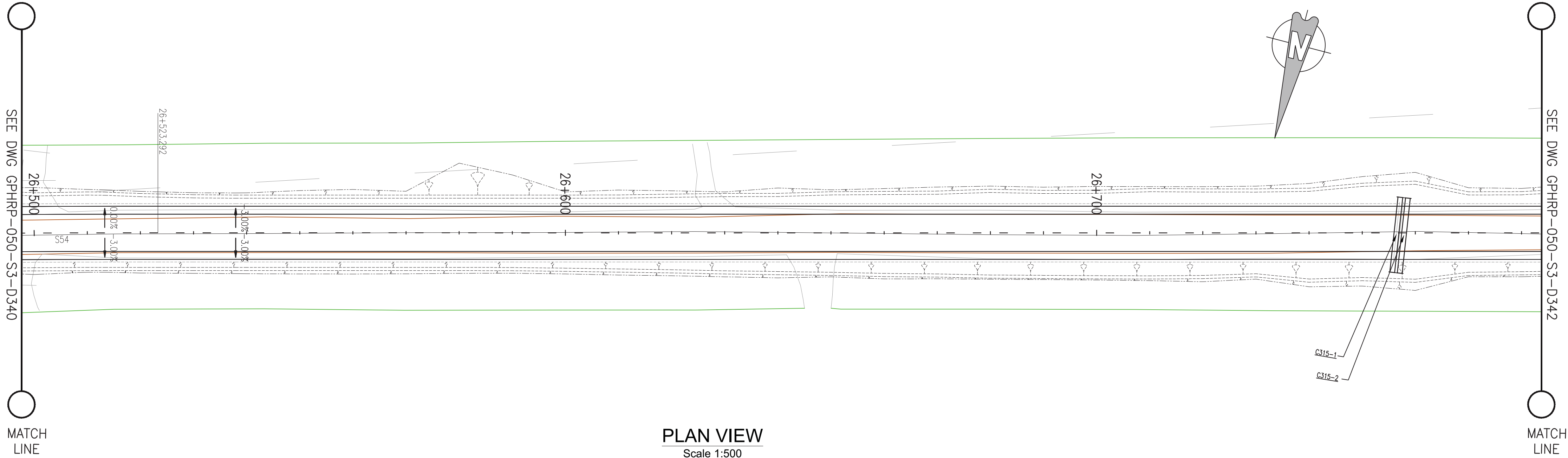
PLAN & PROFILE SEC. 3 - STA.26+259 TO 26+521

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S3-D340	D

Plot Scale: 1:1





Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.26+521 TO 26+783

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S3-D341	D

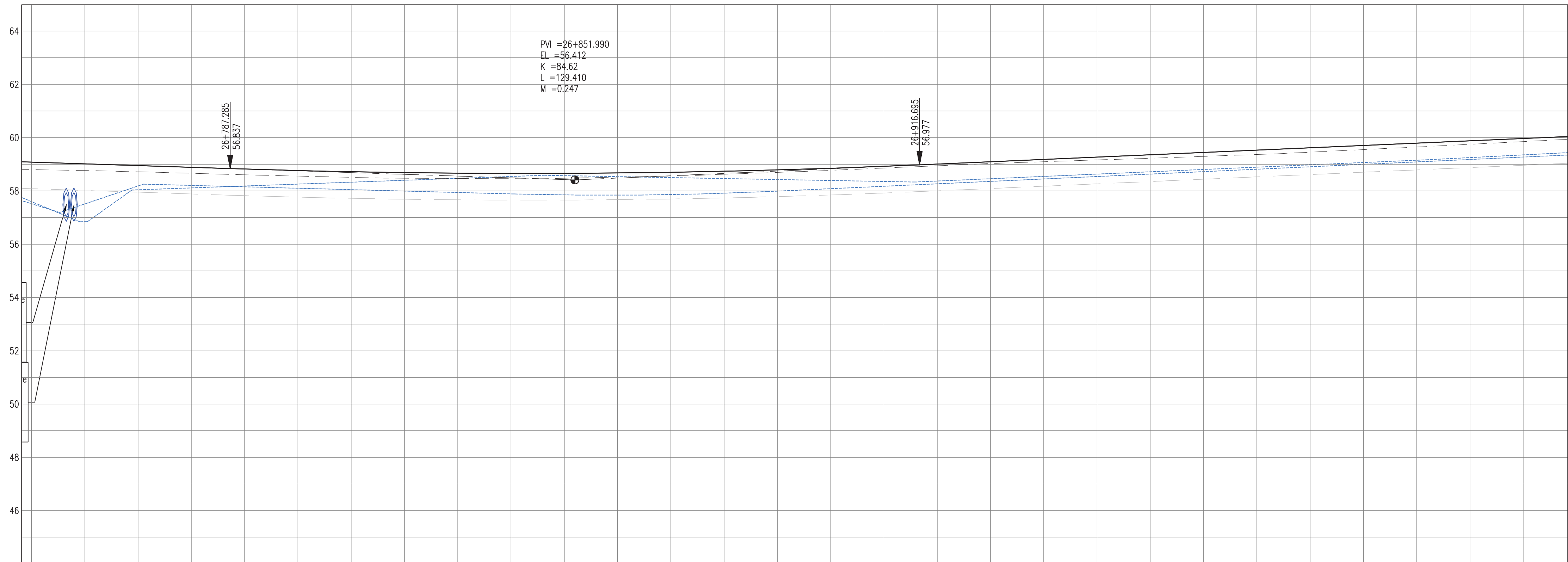
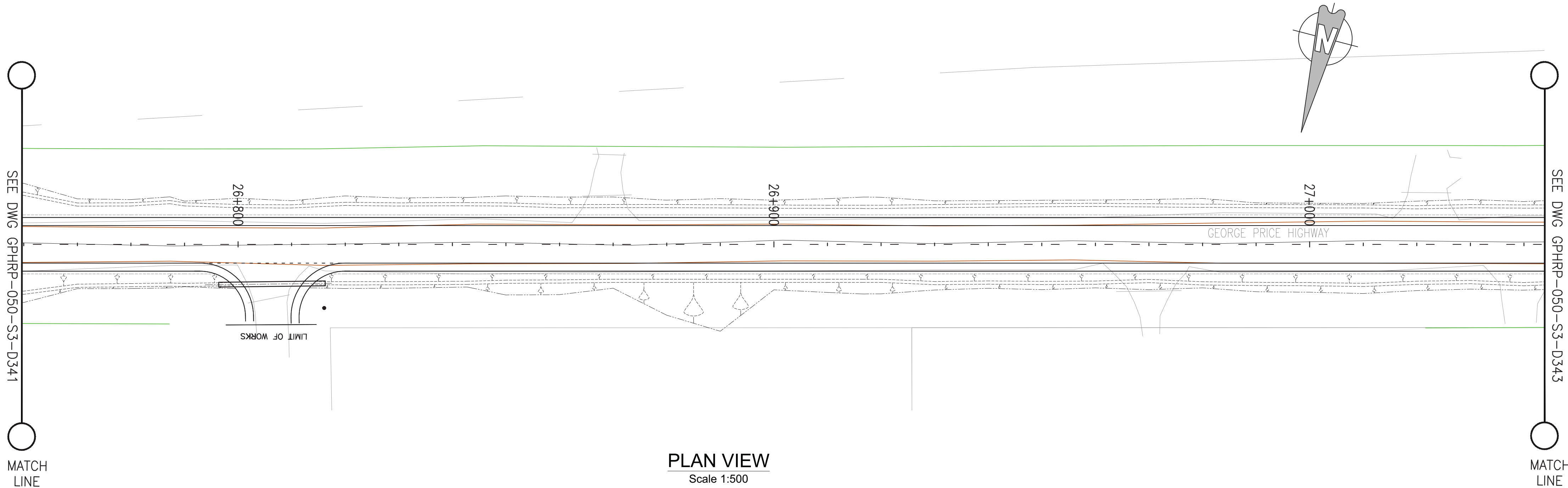
Drawing Scale: As noted at A1

Plot Scale: 1 : 1000

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Reference file path: H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE\GPHRP-050-S3-D341 Plan & Profile SEC. 3 - STA.26+521 to 26+783.dwg
User and Plot Date: MS07/12/2017 17:01:01

PROPOSED	58.79	58.72	58.66	58.59	58.52	58.46	58.39	58.33	58.26	58.20	58.13	58.07	58.00	57.93	57.87	57.80	57.74	57.67	57.61	57.54	57.47	57.41	57.34	57.28	57.21	57.15	57.08	57.02	56.95
SURVEY	58.88	58.85	58.81	58.76	58.70	58.63	58.57	58.51	58.44	58.32	58.20	58.08	57.98	57.88	57.75	57.61	57.47	57.37	57.29	57.21	57.14	57.06	57.00	56.93	56.87	56.83	56.80	56.77	56.72
HORIZ. ALIGN.	CL=33.00																												
VERT. ALIGN.	L=332.76 G=-0.656%																												
STATION	26+490	26+500	26+510	26+520	26+530	26+540	26+550	26+560	26+570	26+580	26+590	26+600	26+610	26+620	26+630	26+640	26+650	26+660	26+670	26+680	26+690	26+700	26+710	26+720	26+730	26+740	26+750	26+760	26+770
SUPERELEVATION	<div><div>23.00m</div><div>23.00m</div><div>24.64m</div></div>																												
DRAIN L	58.11	58.04	57.98	57.91	57.85	57.78	57.72	57.65	57.58	57.52	57.45	57.39	57.32	57.26	57.19	57.13	57.06	57.00	56.93	56.86	56.80	56.73	56.67	56.60	56.54	56.14	55.52	55.52	56.19
DRAIN R	58.12	58.06	58.00	57.94	57.87	57.81	57.74	57.68	57.61	57.54	57.47	57.39	57.31	57.22	57.14	57.06	56.97	56.89	56.81	56.72	56.64	56.56	56.47	56.39	56.31	56.23	55.59	54.84	56.04

PROFILE VIEW
Scale 1:500



PROPOSED	57.08	57.02	56.95	56.88	56.82	56.76	56.72	56.69	56.66	56.66	56.66	56.67	56.70	56.74	56.79	56.85	56.92	57.01	57.09	57.18	57.27	57.36	57.44	57.53	57.62	57.70	57.79	57.88	57.97
SURVEY	56.80	56.77	56.72	56.66	56.61	56.56	56.51	56.48	56.47	56.46	56.48	56.52	56.56	56.62	56.70	56.77	56.86	56.94	57.03	57.10	57.16	57.23	57.30	57.37	57.45	57.55	57.65	57.75	57.85
HORIZ. ALIGN.																													
VERT. ALIGN.																													
STATION	26+750	26+760	26+770	26+780	26+790	26+800	26+810	26+820	26+830	26+840	26+850	26+860	26+870	26+880	26+890	26+900	26+910	26+920	26+930	26+940	26+950	26+960	26+970	26+980	26+990	27+000	27+010	27+020	27+030
SUPERELEVATION																													
DRAIN L	55.52	55.52	56.19	56.21	56.15	56.10	56.05	55.99	55.94	55.89	55.85	55.84	55.87	55.92	55.99	56.08	56.18	56.27	56.36	56.45	56.54	56.63	56.72	56.82	56.91	57.00	57.09	57.18	57.27
DRAIN R	55.59	54.84	55.04	56.11	56.19	56.26	56.33	56.40	56.47	56.54	56.57	56.54	56.50	56.46	56.43	56.39	56.35	56.37	56.46	56.55	56.63	56.72	56.81	56.89	56.98	57.07	57.15	57.25	57.35

- Notes:
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 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

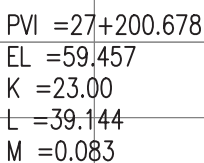
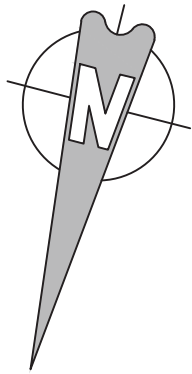
PLAN & PROFILE SEC. 3 - STA.26+783 TO 27+045

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D342** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



PROFILE VIEW

Scale 1:500

- Legend:**
- | | |
|-------|--------------------------|
| ● UP | Existing Lamp Post |
| ⊗ EP | Existing Electrical Post |
| ▲ GW | Existing Guy Wire |
| ----- | Cut/Fill Slopes |
| ===== | Proposed Ditch |
| ===== | Existing Road |
| ===== | Existing Fence |
| ----- | Existing Drain |
| ▨ | Existing Building |

- ### Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
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www.ch2m.com

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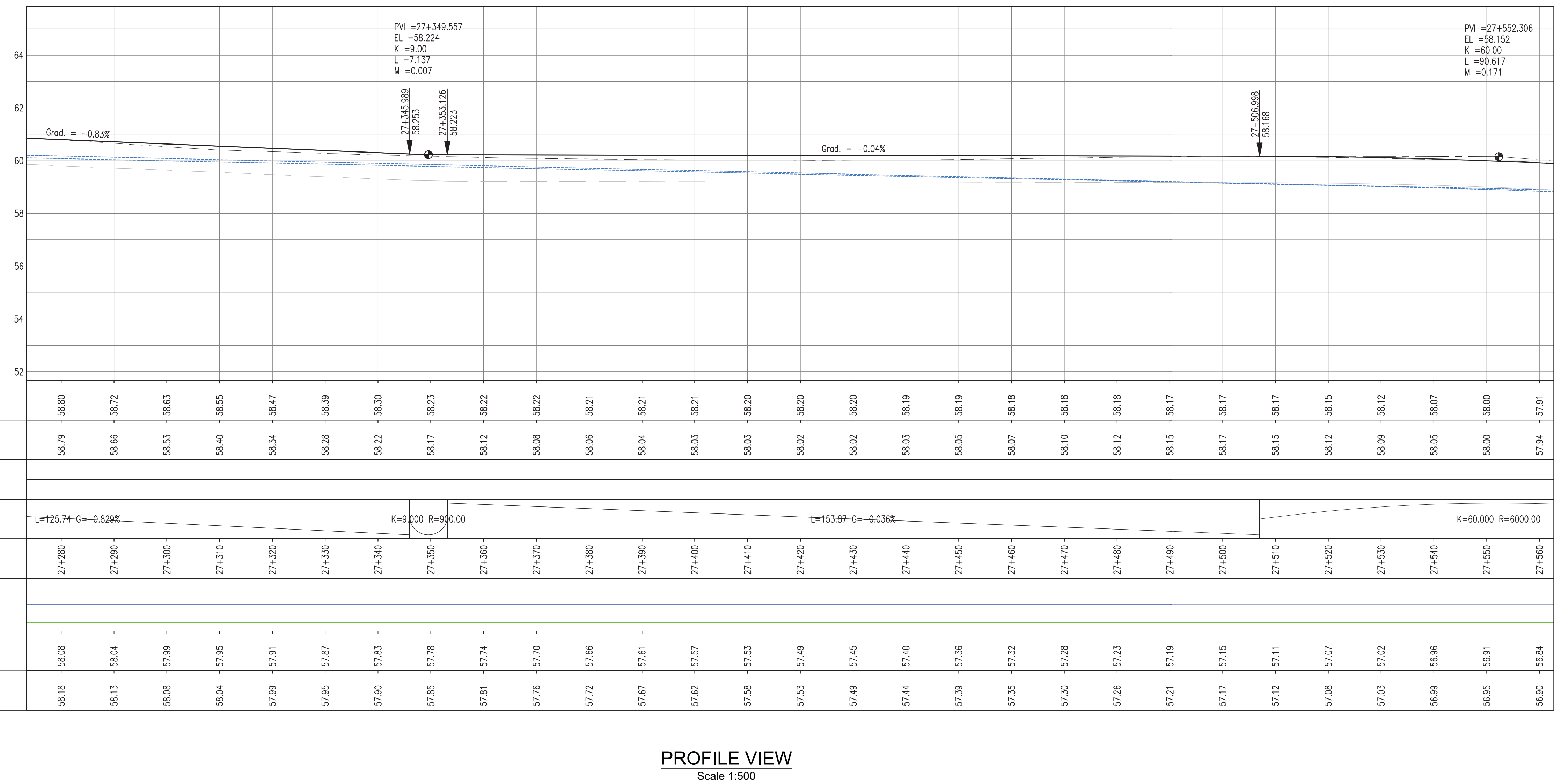
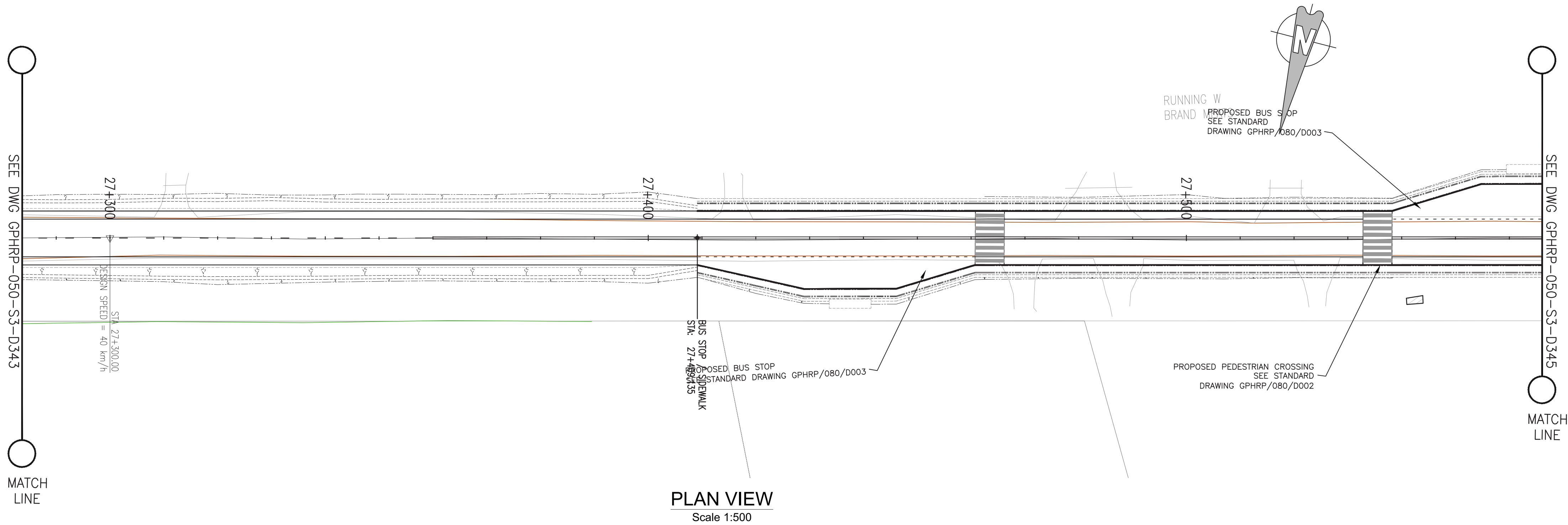
Project

George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.27+045 TO 27+307

Drawn by KA	Date: 07 JUL, 201
Checked by MR	Date: 07 JUL, 201
Authorised by MS	Date: 07 JUL, 201

Drawing No.	Revision
GPHRP-050-S3-D343	D
Drawing Scale: As noted at A1	
Plot Scale: 1 : 1000	



- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - - - - - Proposed Ditch
 - Existing Road
 - Existing Fence
 - - - - - Existing Drain
 - Existing Building
1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

Project
George Price Highway
Rehabilitation Project

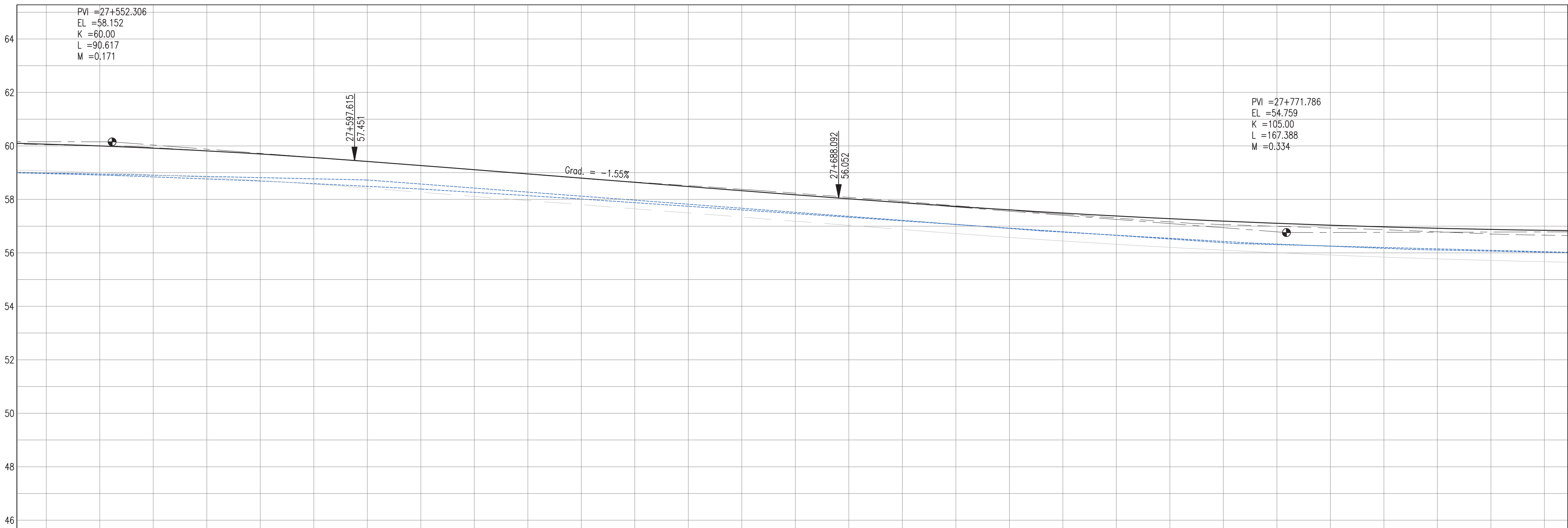
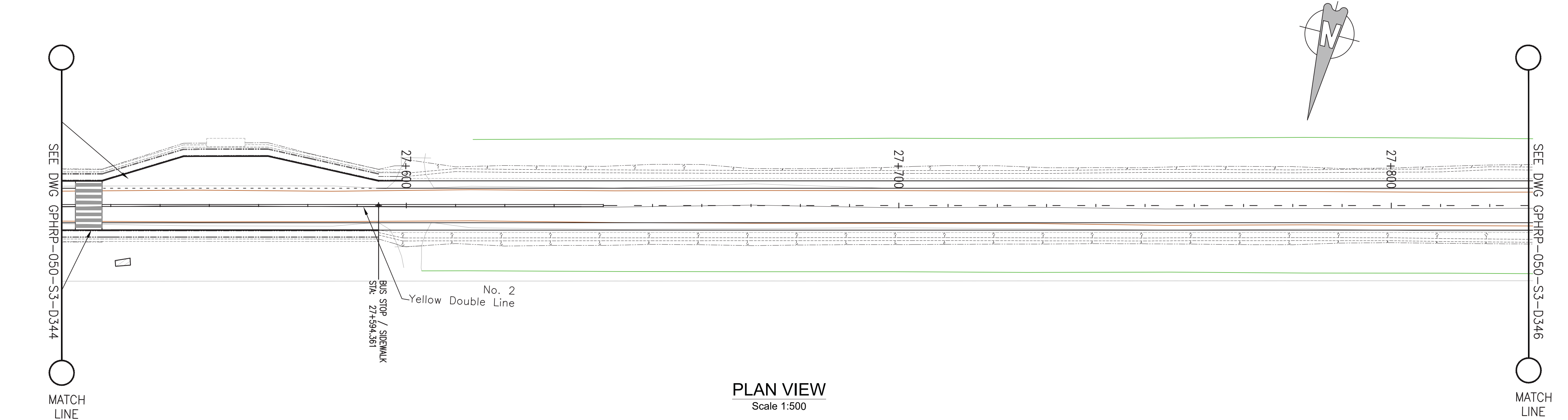
Drawing Title
PLAN & PROFILE SEC. 3 - STA.27+307 TO 27+569

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S3-D344 Revision D

Drawing Scale: As noted at A1
Plot Scale: 1 : 1000

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Reference file path: H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE GPHRP-050-S3-D344.dwg
User and Plot Date: 17/05/2017 12:17:01 PM



PROPOSED		-58.07	-58.00	-57.91	-57.81	-57.70	-57.56	-57.41	-57.26	-57.11	-56.95	-56.80	-56.64	-56.49	-56.33	-56.18	-56.02	-55.88	-55.74	-55.61	-55.49	-55.38	-55.28	-55.19	-55.11	-55.03	-54.97	-54.92	-54.88	-54.84
SURVEY		58.05	58.00	57.94	57.82	57.70	57.56	57.41	57.26	57.11	56.95	56.79	56.65	56.52	56.38	56.23	56.08	55.93	55.76	55.60	55.45	55.30	55.16	55.06	54.99	54.93	54.87	54.79	54.71	54.66
HORIZ. ALIGN.																														
VERT. ALIGN.		K=60.000 R=6000.00						L=90.48 G=-1.546%										K=105.000 R=10500.00												
STATION		27+540	27+550	27+560	27+570	27+580	27+590	27+600	27+610	27+620	27+630	27+640	27+650	27+660	27+670	27+680	27+690	27+700	27+710	27+720	27+730	27+740	27+750	27+760	27+770	27+780	27+790	27+800	27+810	27+820
SUPERELEVATION																														
DRAIN L		-56.96	-56.91	-56.84	-56.76	-56.69	-56.59	-56.49	-56.39	-56.26	-56.14	-56.01	-55.88	-55.74	-55.60	-55.47	-55.33	-55.20	-55.06	-54.92	-54.79	-54.65	-54.52	-54.38	-54.31	-54.25	-54.20	-54.15	-54.10	-54.04
DRAIN R		56.99	56.95	56.90	56.86	56.81	56.77	56.72	56.57	56.42	56.27	56.12	55.97	55.82	55.67	55.52	55.36	55.21	55.06	54.91	54.78	54.66	54.54	54.43	54.33	54.25	54.17	54.11	54.06	54.02

- Notes:
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 - All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- ⊗ EP Existing Electrical Post
- ▲ GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

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- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
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Project
George Price Highway
Rehabilitation Project

Drawing Title

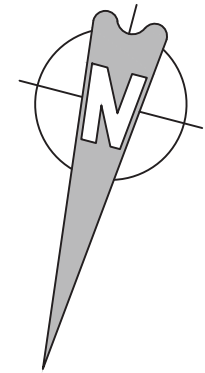
PLAN & PROFILE SEC. 3 - STA.27+569 TO 27+831

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D345** Revision **D**

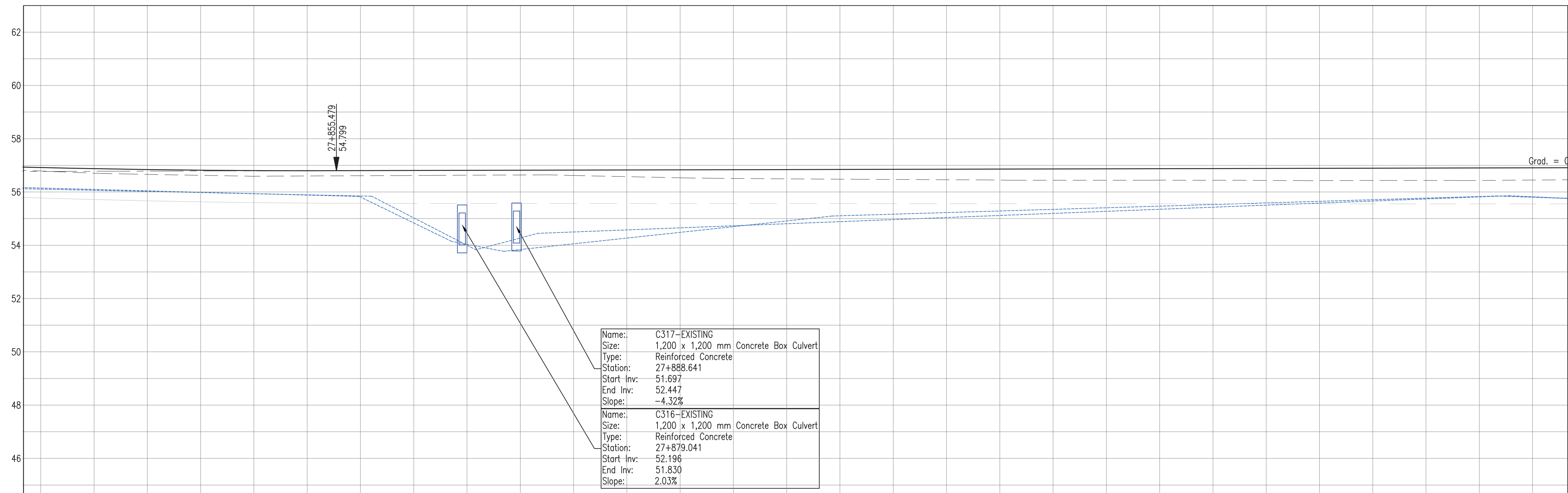
Drawing Scale: As noted at A1

Plot Scale: 1 : 1000

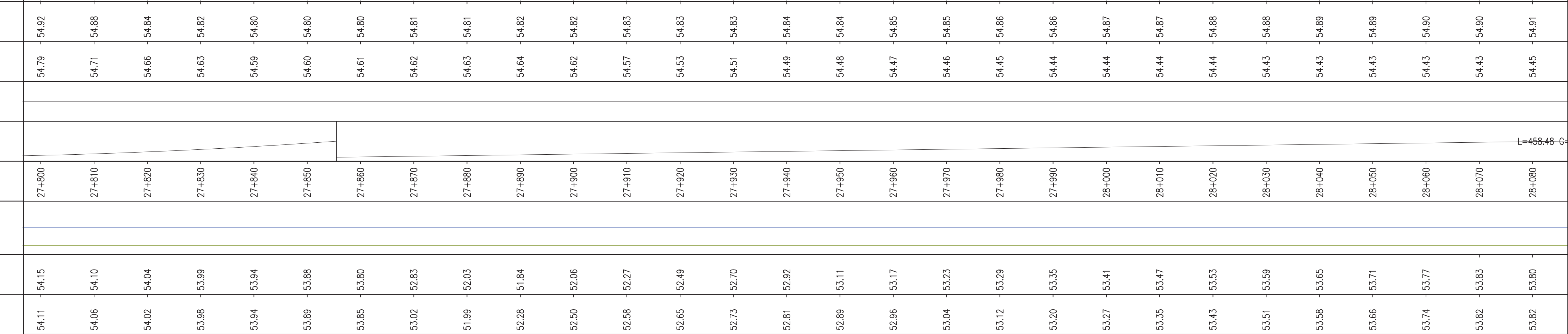


SEE DWG GPHRP-050-S3-D345

MATCH LINE



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
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- Legend:
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 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
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 - Existing Drain
 - Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



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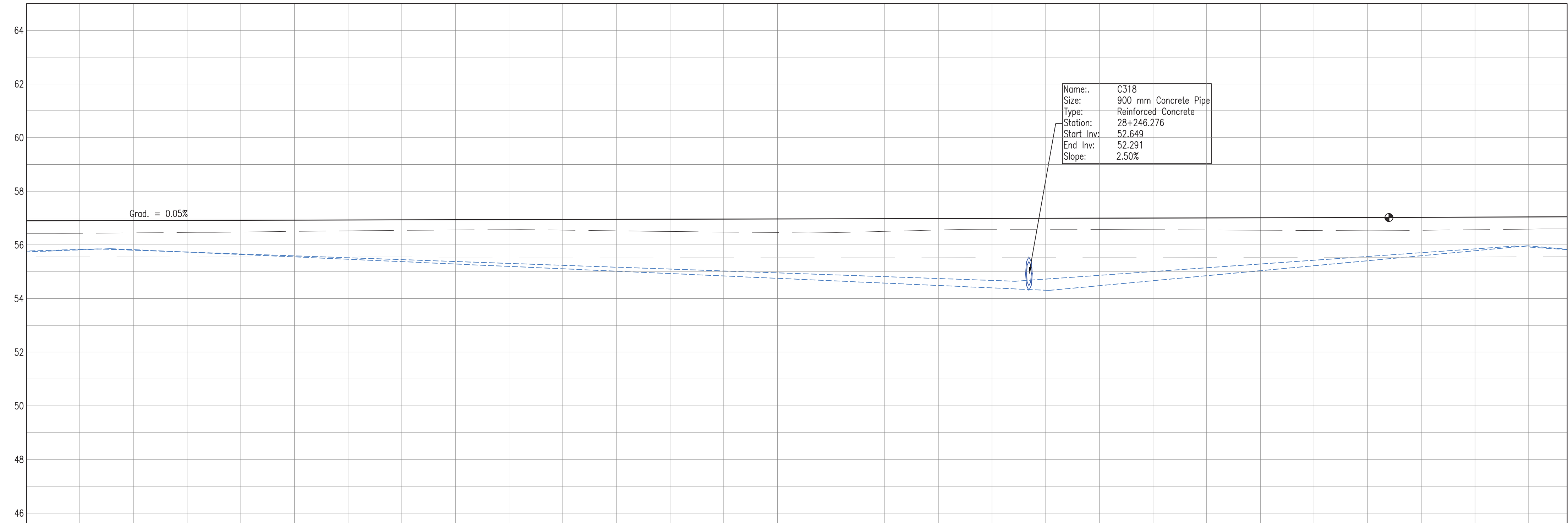
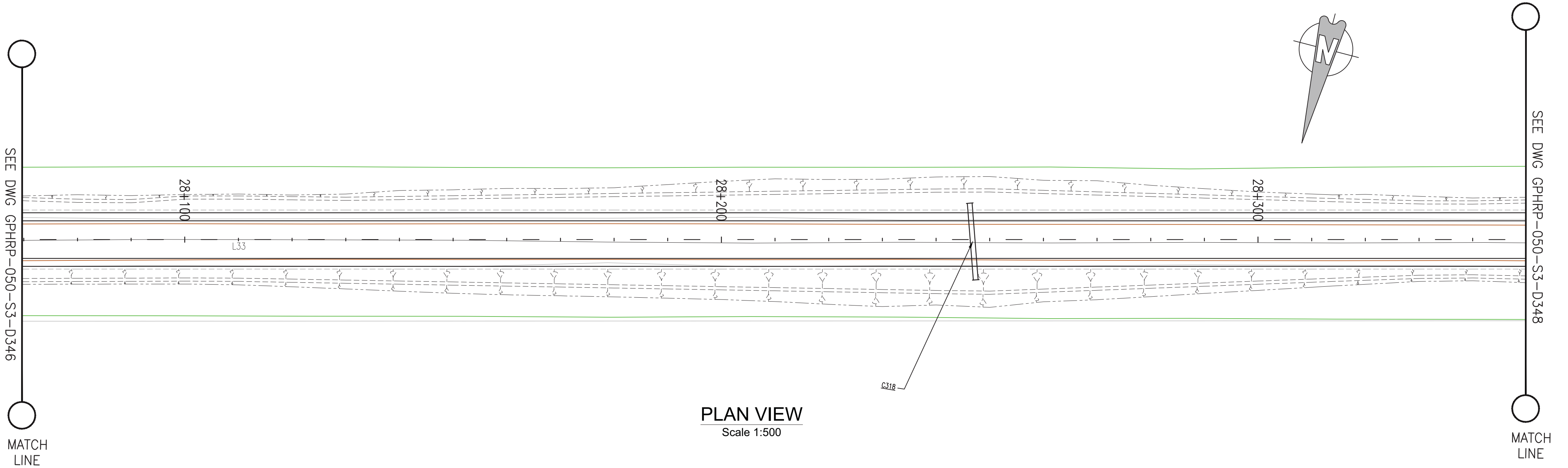


George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.27+831 TO 28+093

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D346** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1000



PROPOSED	54.90	54.91	54.91	54.92	54.92	54.93	54.93	54.94	54.94	54.95	54.95	54.96	54.96	54.97	54.97	54.97	54.98	54.98	54.99	54.99	55.00	55.00	55.01	55.01	55.02	55.03	55.03	55.04
SURVEY	54.43	54.45	54.46	54.48	54.50	54.52	54.54	54.55	54.57	54.55	54.52	54.50	54.48	54.46	54.46	54.50	54.56	54.58	54.58	54.58	54.57	54.56	54.55	54.54	54.53	54.54	54.57	54.59
HORIZ. ALIGN.																												
VERT. ALIGN.	L=458.48 G=0.048%																											
STATION	28+070	28+080	28+090	28+100	28+110	28+120	28+130	28+140	28+150	28+160	28+170	28+180	28+190	28+200	28+210	28+220	28+230	28+240	28+250	28+260	28+270	28+280	28+290	28+300	28+310	28+320	28+330	28+340
SUPERELEVATION																												
DRAIN L	53.83	53.80	53.73	53.66	53.59	53.52	53.45	53.38	53.31	53.24	53.17	53.10	53.03	52.96	52.89	52.82	52.75	52.68	52.61	52.54	52.47	52.40	52.33	52.26	52.19	52.12	52.05	51.98
DRAIN R	53.82	53.82	53.73	53.64	53.55	53.46	53.38	53.29	53.20	53.11	53.02	52.93	52.84	52.75	52.66	52.57	52.49	52.40	52.31	52.24	52.17	52.10	52.03	51.96	51.89	51.82	51.75	51.68

- Notes:
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 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

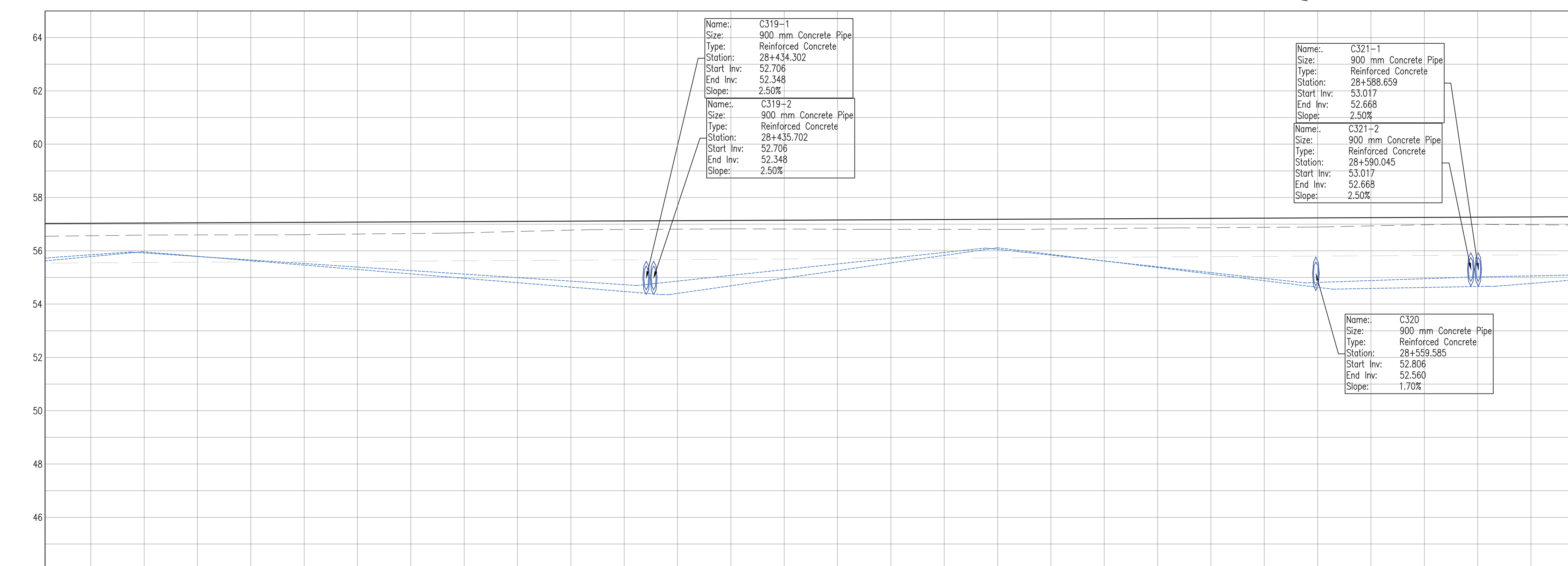
PLAN & PROFILE SEC. 3 - STA.28+093 TO 28+355

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D347** Revision **D**

Drawing Scale: As noted at A1










Plot Scale: 1 : 1000



PROFILE VIEW
Scale 1:500

Notes:

1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
3. All dimensions in meters unless otherwise noted.
4. All elevations in meters unless otherwise noted.

 UP Existing Lamp Post
 EP Existing Electrical Post
 GW Existing Guy Wire
 Cut/Fill Slopes
 Proposed Ditch
 Existing Road
 Existing Fence
 Existing Drain
 Existing Building

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rolllover	ESR
Begin normal crown	BNC
Begin Shoulder Rolllover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

8 221 8683

ch2m.SM

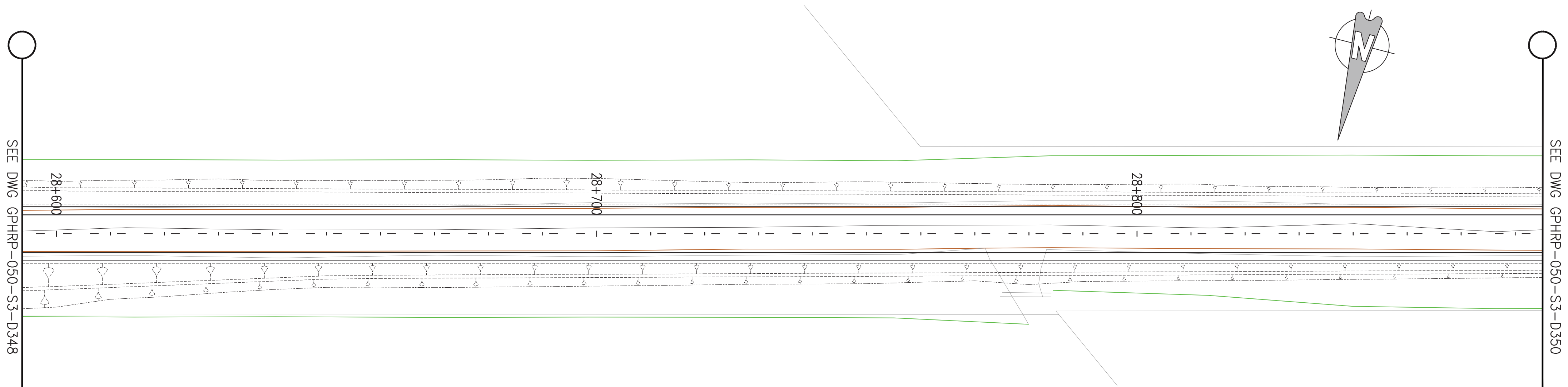
George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.28+355 TO 28+617

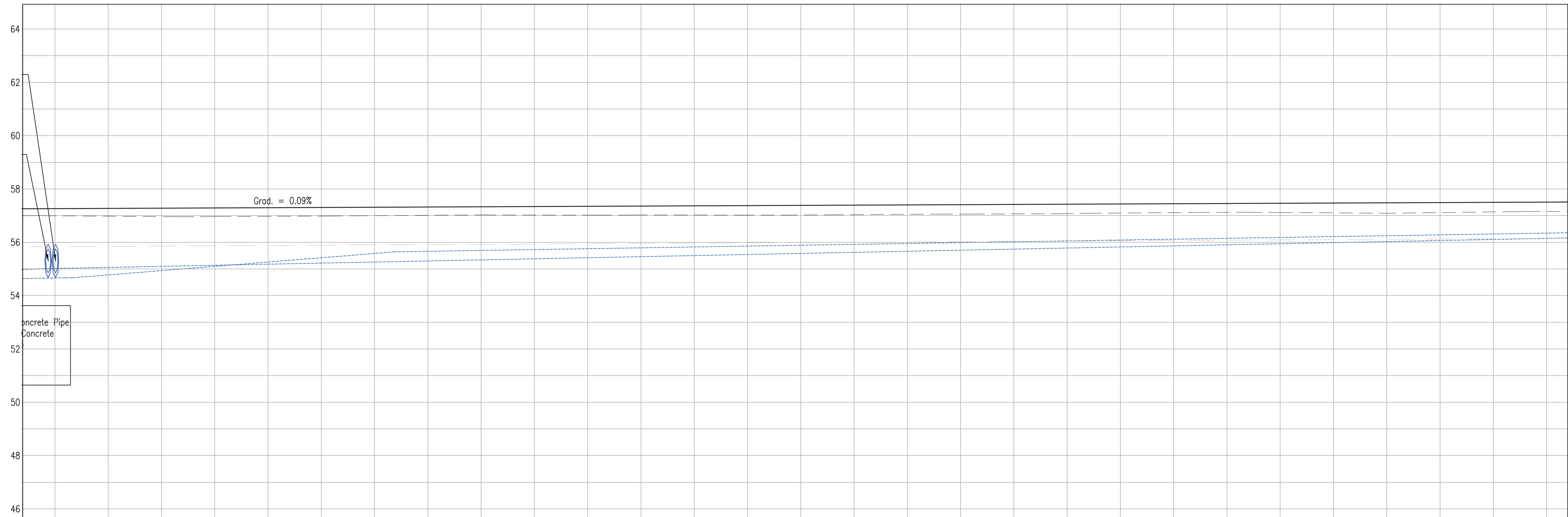
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S3-D348	D
Drawing Scale: As noted at A1	
Plot Scale: 1 : 1000	

SEE DWG GPHRP-050-S3-D348
MATCH LINE



PLAN VIEW
Scale 1:500



PROPOSED	55.26	55.27	55.28	55.29	55.30	55.31	55.31	55.32	55.33	55.34	55.35	55.36	55.37	55.38	55.38	55.39	55.40	55.41	55.42	55.43	55.44	55.45	55.45	55.46	55.47	55.48	55.49	55.50	55.51
SURVEY	54.99	54.98	54.96	54.96	54.97	54.98	55.00	55.01	55.03	55.02	55.02	55.02	55.02	55.02	55.02	55.04	55.05	55.06	55.06	55.07	55.10	55.11	55.12	55.12	55.10	55.09	55.11	55.14	55.15
HORIZ. ALIGN.																													
VERT. ALIGN.																													
STATION	28+590	28+600	28+610	28+620	28+630	28+640	28+650	28+660	28+670	28+680	28+690	28+700	28+710	28+720	28+730	28+740	28+750	28+760	28+770	28+780	28+790	28+800	28+810	28+820	28+830	28+840	28+850	28+860	28+870
SUPERELEVATION																													
DRAIN L	53.02	53.06	53.10	53.14	53.18	53.22	53.26	53.30	53.34	53.38	53.42	53.46	53.50	53.54	53.58	53.62	53.66	53.70	53.74	53.78	53.82	53.86	53.90	53.95	53.99	54.03	54.07	54.11	54.15
DRAIN R	52.86	52.78	52.94	53.10	53.26	53.42	53.58	53.66	53.69	53.73	53.76	53.79	53.82	53.86	53.89	53.92	53.95	53.99	54.02	54.05	54.08	54.12	54.15	54.18	54.21	54.25	54.28	54.31	54.34

PROFILE VIEW
Scale 1:500

- Notes:
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 - All elevations in meters unless otherwise noted.

- Legend:
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 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
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 - Existing Road
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 - Existing Drain
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- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.28+617 TO 28+879

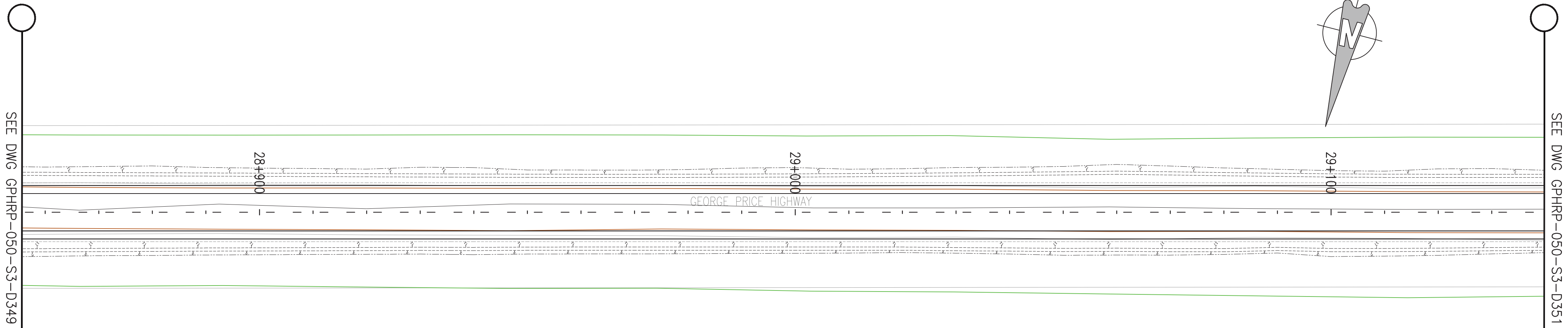
Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D349** Revision **D**

Drawing Scale: As noted at A1

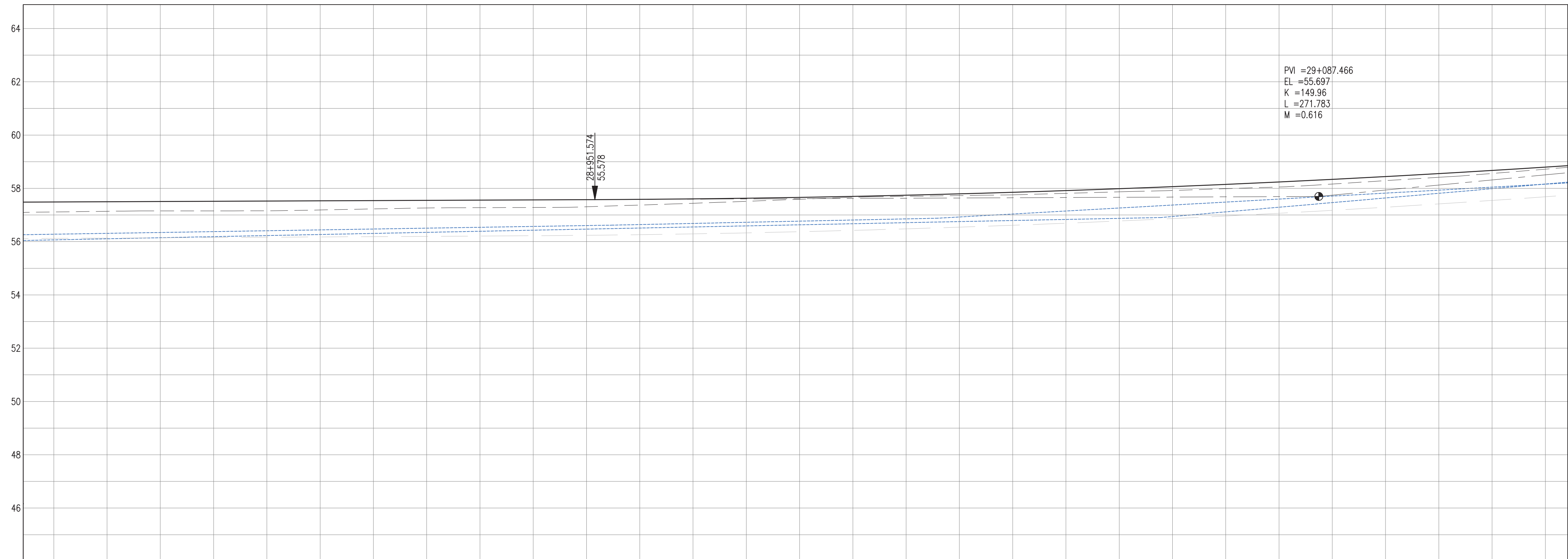
Plot Scale: 1 : 1000

SEE DWG GPHRP-050-S3-D349
MATCH LINE



PLAN VIEW
Scale 1:500

SEE DWG GPHRP-050-S3-D351
MATCH LINE



PVI = 29+087.466
EL = 55.697
K = 149.96
L = 271.783
M = 0.616

PROPOSED	55.49	55.50	55.51	55.52	55.52	55.53	55.54	55.55	55.56	55.57	55.58	55.59	55.61	55.63	55.66	55.70	55.74	55.79	55.85	55.92	55.99	56.06	56.15	56.24	56.34	56.44	56.55	56.67	56.80
SURVEY	55.11	55.14	55.15	55.15	55.16	55.19	55.23	55.26	55.28	55.28	55.31	55.37	55.44	55.51	55.59	55.66	55.70	55.73	55.76	55.81	55.87	55.92	55.99	56.05	56.16	56.29	56.42	56.56	56.72
HORIZ. ALIGN.																													
VERT. ALIGN.																													
STATION	28+850	28+860	28+870	28+880	28+890	28+900	28+910	28+920	28+930	28+940	28+950	28+960	28+970	28+980	28+990	29+000	29+010	29+020	29+030	29+040	29+050	29+060	29+070	29+080	29+090	29+100	29+110	29+120	29+130
SUPERELEVATION																													
DRAIN L	54.07	54.11	54.15	54.19	54.23	54.27	54.31	54.35	54.39	54.43	54.47	54.51	54.55	54.59	54.63	54.67	54.71	54.75	54.79	54.83	54.87	54.94	55.12	55.29	55.47	55.64	55.81	55.99	56.16
DRAIN R	54.28	54.31	54.34	54.38	54.41	54.44	54.47	54.51	54.54	54.57	54.60	54.64	54.68	54.73	54.77	54.81	54.85	54.93	55.04	55.15	55.26	55.37	55.49	55.60	55.71	55.82	55.93	56.05	56.16

PROFILE VIEW
Scale 1:500

- Notes:
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 - All elevations in meters unless otherwise noted.

Legend:

- UP Existing Lamp Post
- EP Existing Electrical Post
- GW Existing Guy Wire
- Cut/Fill Slopes
- Proposed Ditch
- Existing Road
- Existing Fence
- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



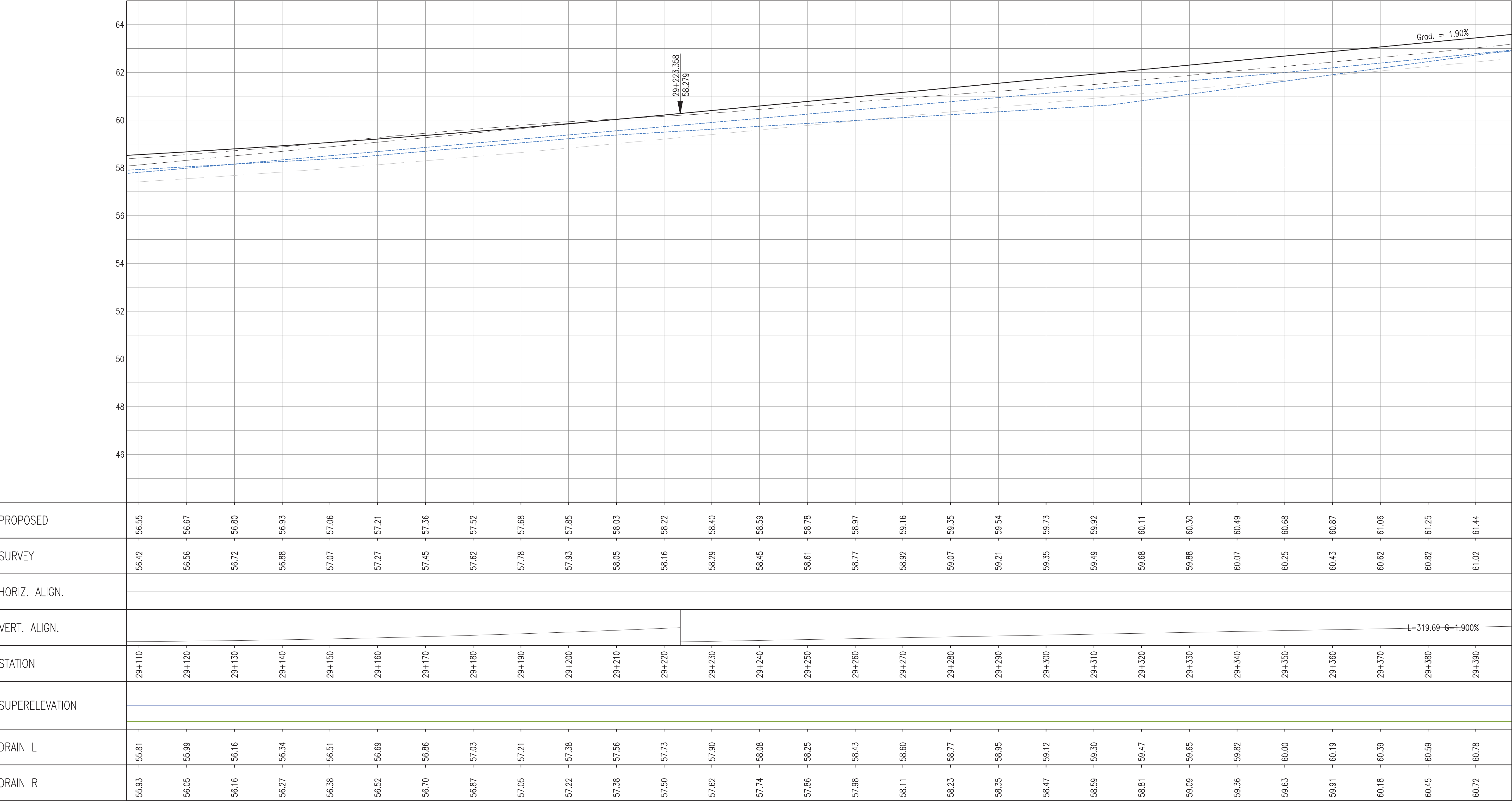
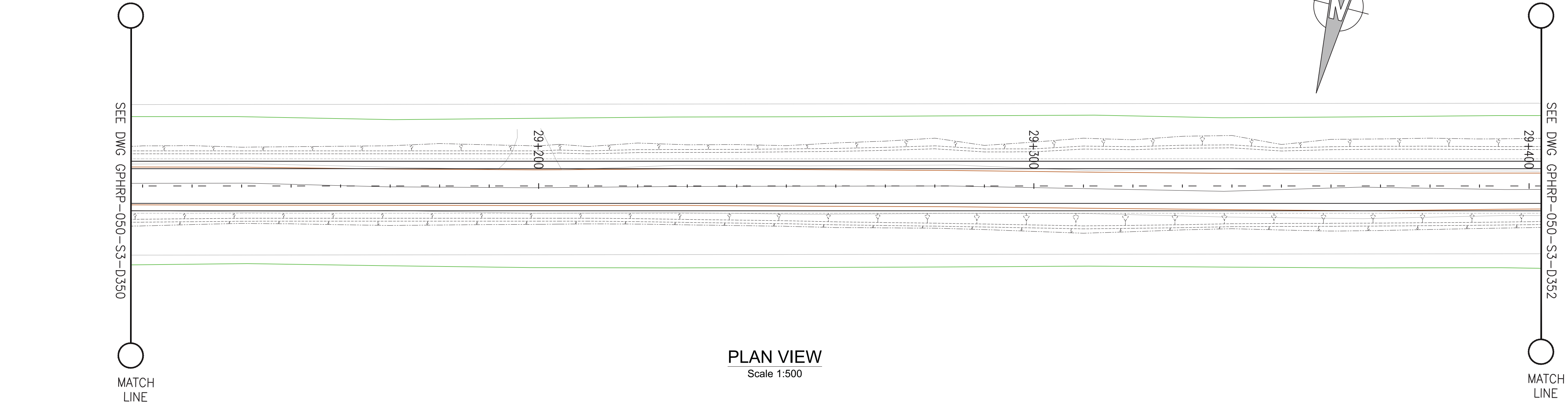
Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.28+879 TO 29+141

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D350** Revision **D**
Drawing Scale: As noted at A1
Plot Scale: 1 : 1000



- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
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 4. All elevations in meters unless otherwise noted.

- Legend:
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 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
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2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

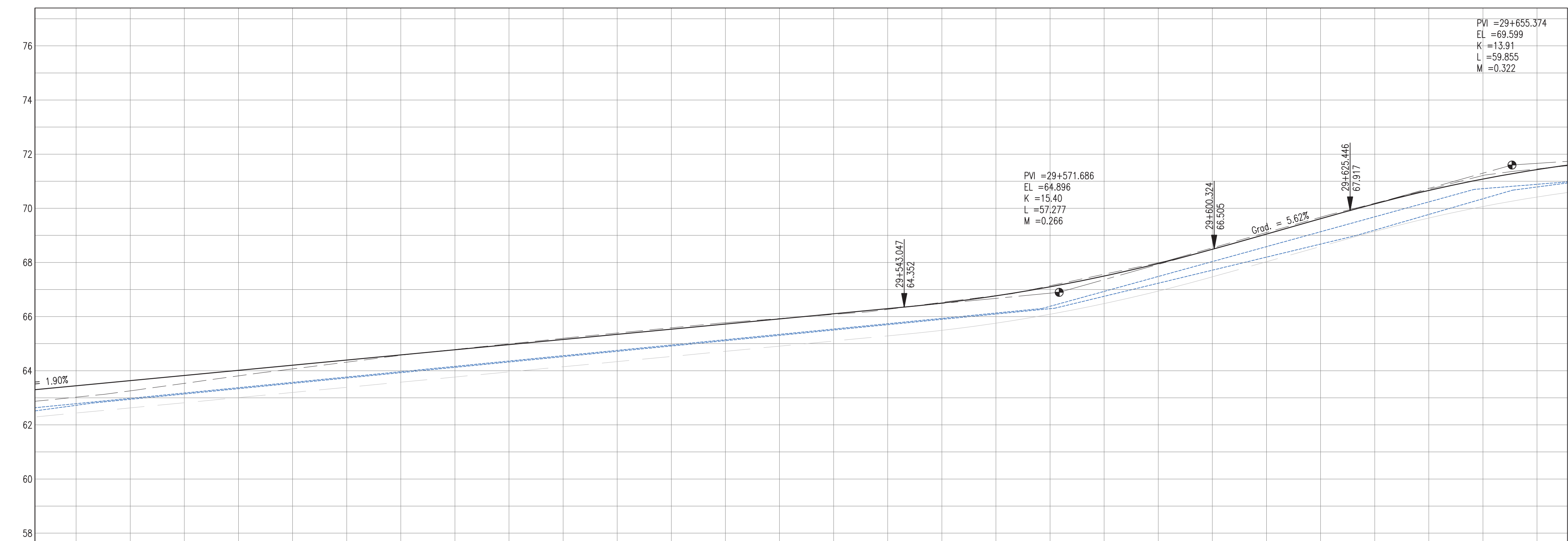
PLAN & PROFILE SEC. 3 - STA.29+141 TO 29+403

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D351** Revision **D**

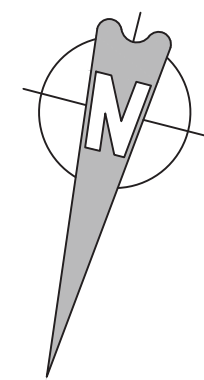
Drawing Scale: As noted at A1

Plot Scale: 1 : 1000












PROFILE VIEW

Scale 1:500



- Notes:
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 4. All elevations in meters unless otherwise noted.

Legend:

-  UP Existing Lamp Post
 EP Existing Electrical Post
 GW Existing Guy Wire
 Cut/Fill Slopes
 Proposed Ditch
 Existing Road
 Existing Fence
 Existing Drain
 Existing Building

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2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
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Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

085 221 8883

ch2m

Project

George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.29+403 TO 29+665

Drawn by KA	Date: 07 JUL, 2018
Checked by MR	Date: 07 JUL, 2018
Authorised by MS	Date: 07 JUL, 2018

Drawing No.

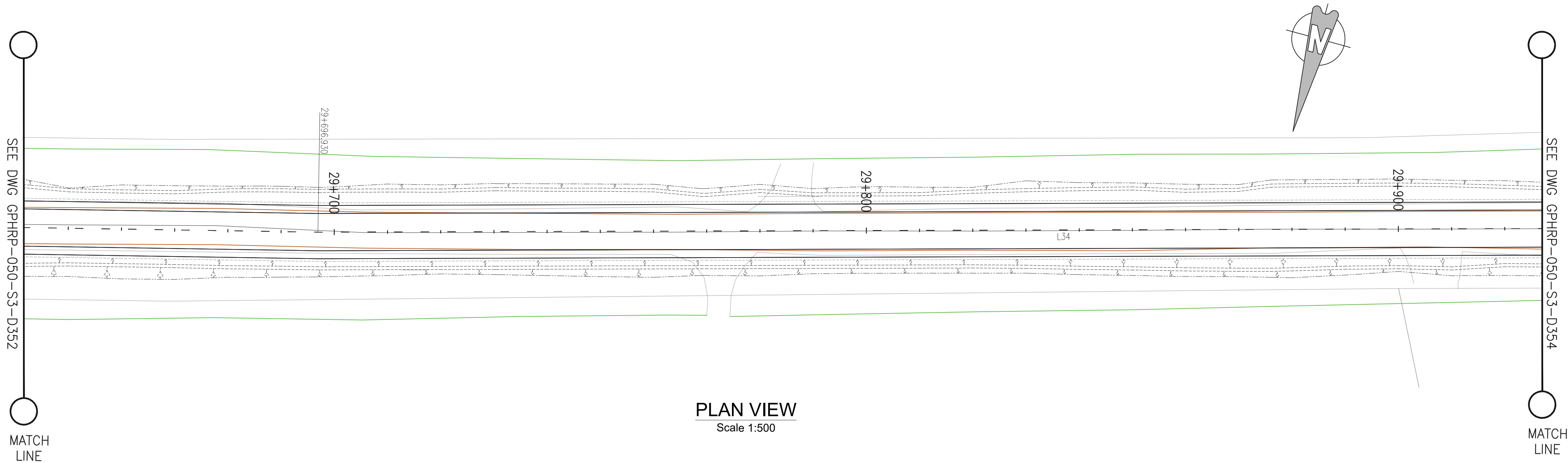
GPHRP-050-S3-D352

Drawing Scale: As noted at A1

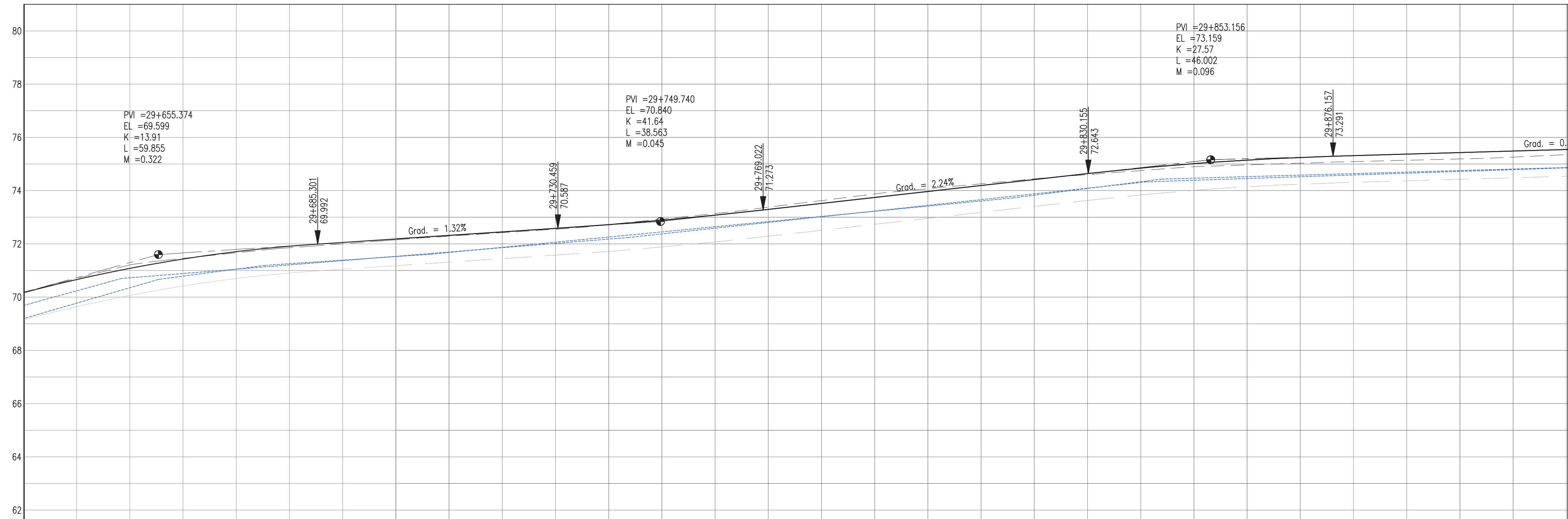
Plot Scale: 1 : 1000

Drawing file path & name : H:\Belize\Georgia Price Highway\ACAD\SECTION 3\PIAN&PROFILE\GPHRW-050-S3-D358 Plan & Profile SEC. 3 - STA. 30+97.5 to 31+237.4wg
 Reference file path : H:\Belize\Georgia Price Highway\ACAD\SECTION 3\PIAN&PROFILE\GPHRW-050-S3-D358 Plan & Profile SEC. 3 - STA. 30+97.5 to 31+237.4wg
 User and Ext Date : WSD007 - 23.11.2017 - 9.11 am

SEE DWG GPHRP-050-S3-D352
MATCH LINE



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

PROPOSED	68.66	69.08	69.43	69.71	69.91	70.05	70.19	70.32	70.45	70.58	70.72	70.89	71.08	71.29	71.52	71.74	71.97	72.19	72.42	72.64	72.85	73.02	73.15	73.25	73.31	73.37	73.43	73.49	73.54																		
SURVEY	68.70	69.21	69.46	69.66	69.85	70.00	70.15	70.29	70.32	70.42	70.45	70.55	70.72	70.89	71.14	71.08	71.38	71.29	71.63	71.52	71.88	71.74	72.07	71.97	72.26	72.19	72.44	72.42	72.60	72.64	72.75	72.85	72.90	73.02	72.96	73.15	73.03	73.25	73.09	73.31	73.14	73.37	73.19	73.43	73.26	73.49	73.35
HORIZ. ALIGN.	D=280.40																																														
VERT. ALIGN.	<div><div>K=13.910 R=1391.02</div><div>L=45.16 G=1.316%</div><div>K=41.636 R=4163.62</div><div>L=61.13 G=2.242%</div><div>K=27.575 R=2757.49</div><div>L=82.75 G=0.00%</div></div>																																														
STATION	29+640	29+650	29+660	29+670	29+680	29+690	29+700	29+710	29+720	29+730	29+740	29+750	29+760	29+770	29+780	29+790	29+800	29+810	29+820	29+830	29+840	29+850	29+860	29+870	29+880	29+890	29+900	29+910	29+920																		
SUPERELEVATION																																															
DRAIN L	68.24	68.73	68.89	69.05	69.21	69.37	69.53	69.70	69.86	70.02	70.18	70.38	70.59	70.81	71.02	71.23	71.45	71.66	71.88	72.09	72.31	72.39	72.46	72.52	72.59	72.66	72.72	72.79	72.85																		
DRAIN R	67.78	68.36	68.79	69.05	69.26	69.39	69.52	69.68	69.87	70.06	70.26	70.45	70.65	70.84	71.03	71.23	71.42	71.61	71.83	72.08	72.34	72.47	72.53	72.58	72.64	72.70	72.75	72.81	72.87																		

Notes:

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- All elevations in meters unless otherwise noted.

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- EP Existing Electrical Post
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- Cut/Fill Slopes
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- Existing Road
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- Existing Drain
- Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SB
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

Revision	By	Checked	Approved	Date	Description
D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN

Employer: GOVERNMENT OF BELIZE



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Project
George Price Highway
Rehabilitation Project

Drawing Title

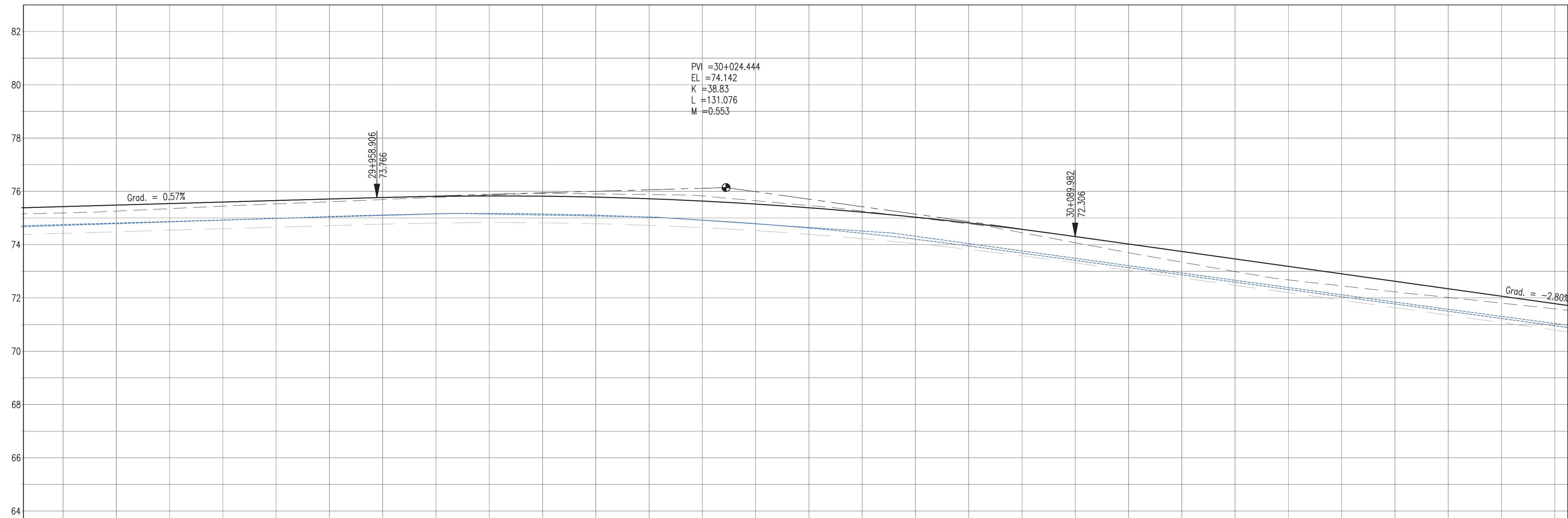
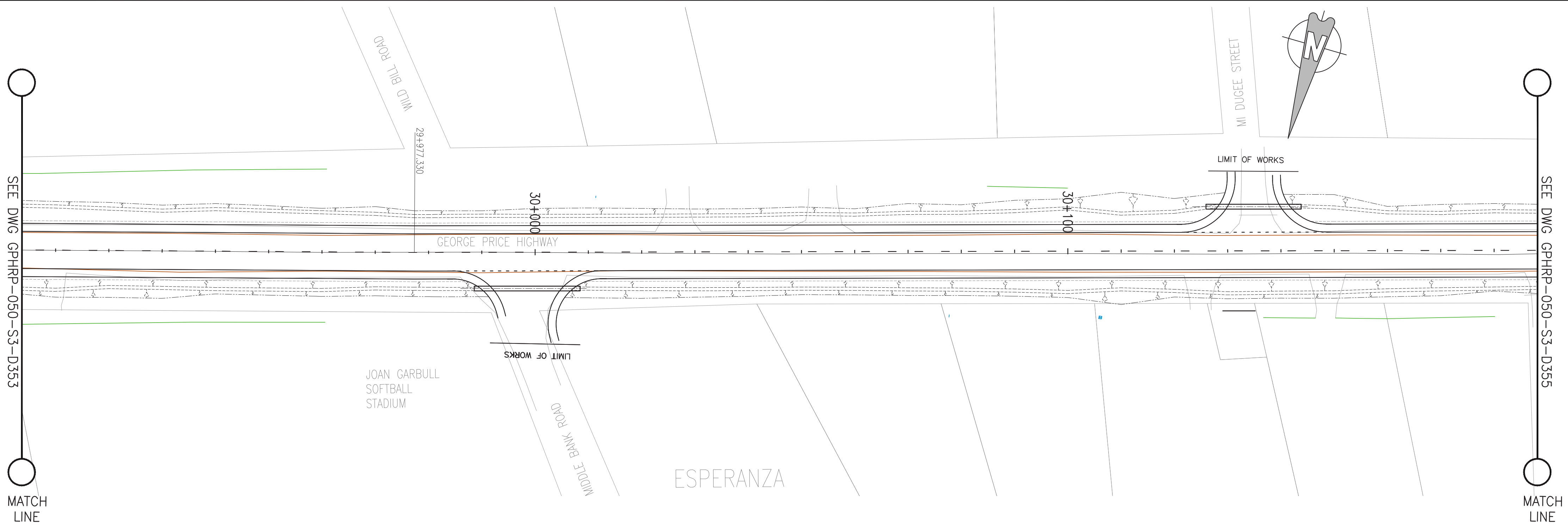
PLAN & PROFILE SEC. 3 - STA.29+665 TO 29+927

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D353** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



PROPOSED	73.43	73.49	73.54	73.60	73.66	73.71	73.77	73.81	73.83	73.82	73.78	73.72	73.64	73.52	73.38	73.22	73.03	72.81	72.57	72.31	72.02	71.74	71.46	71.18	70.90	70.62	70.34	70.06	69.78
SURVEY	73.19	73.26	73.35	73.44	73.53	73.61	73.69	73.77	73.86	73.93	73.90	73.88	73.83	73.65	73.47	73.26	73.02	72.78	72.45	72.07	71.70	71.34	70.99	70.68	70.45	70.23	70.02	69.80	69.59
HORIZ. ALIGN.																													
VERT. ALIGN.																													
STATION	29+900	29+910	29+920	29+930	29+940	29+950	29+960	29+970	29+980	29+990	30+000	30+010	30+020	30+030	30+040	30+050	30+060	30+070	30+080	30+090	30+100	30+110	30+120	30+130	30+140	30+150	30+160	30+170	30+180
SUPERELEVATION																													
DRAIN L	72.72	72.79	72.85	72.92	72.99	73.05	73.11	73.16	73.17	73.15	73.11	73.03	72.92	72.79	72.62	72.42	72.31	72.20	71.95	71.68	71.41	71.13	70.86	70.59	70.32	70.04	69.77	69.50	69.23
DRAIN R	72.75	72.81	72.87	72.92	72.98	73.04	73.10	73.15	73.15	73.11	73.07	73.04	72.91	72.78	72.64	72.51	72.31	72.04	71.76	71.49	71.21	70.93	70.66	70.39	70.12	69.84	69.57	69.31	69.04

PROFILE VIEW
Scale 1:500

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

Ministry of Works

Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company

4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8683
www.ch2m.com

Project: George Price Highway Rehabilitation Project

Drawing Title: PLAN & PROFILE SEC. 3 - STA.29+927 TO 30+189

Drawn by KA Date: 07 JUL, 2016

Checked by MR Date: 07 JUL, 2016

Authorised by MS Date: 07 JUL, 2016

Drawing No. GPHRP-050-S3-D354 Revision D

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 2. All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 3. All dimensions in meters unless otherwise noted.
 4. All elevations in meters unless otherwise noted.

Legend:

- | | |
|-----------|--------------------------|
| ● UP | Existing Lamp Post |
| ⊗ EP | Existing Electrical Post |
| ▲ GW | Existing Guy Wire |
| ----- | Cut/Fill Slopes |
| ===== | Proposed Ditch |
| ===== | Existing Road |
| ===== | Existing Fence |
| - - - - - | Existing Drain |
| ▨ | Existing Building |

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
2. MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rolllover	ESR
Begin normal crown	BNC
Begin Shoulder Rolllover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel. +1 868 222 7290 Fax +1 868 221 8683
www.ch2m.com

ch2m.

Project

George Price Highway
Rehabilitation Project

Drawing Title

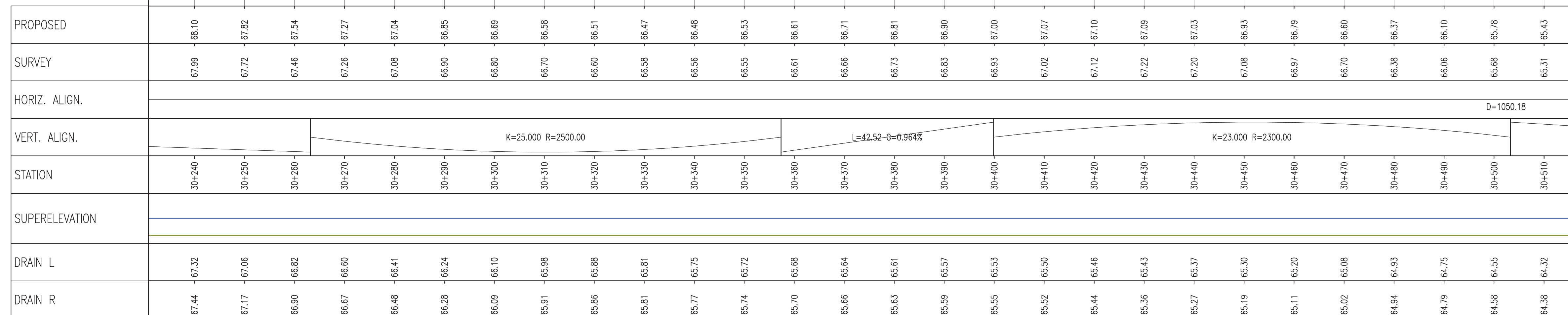
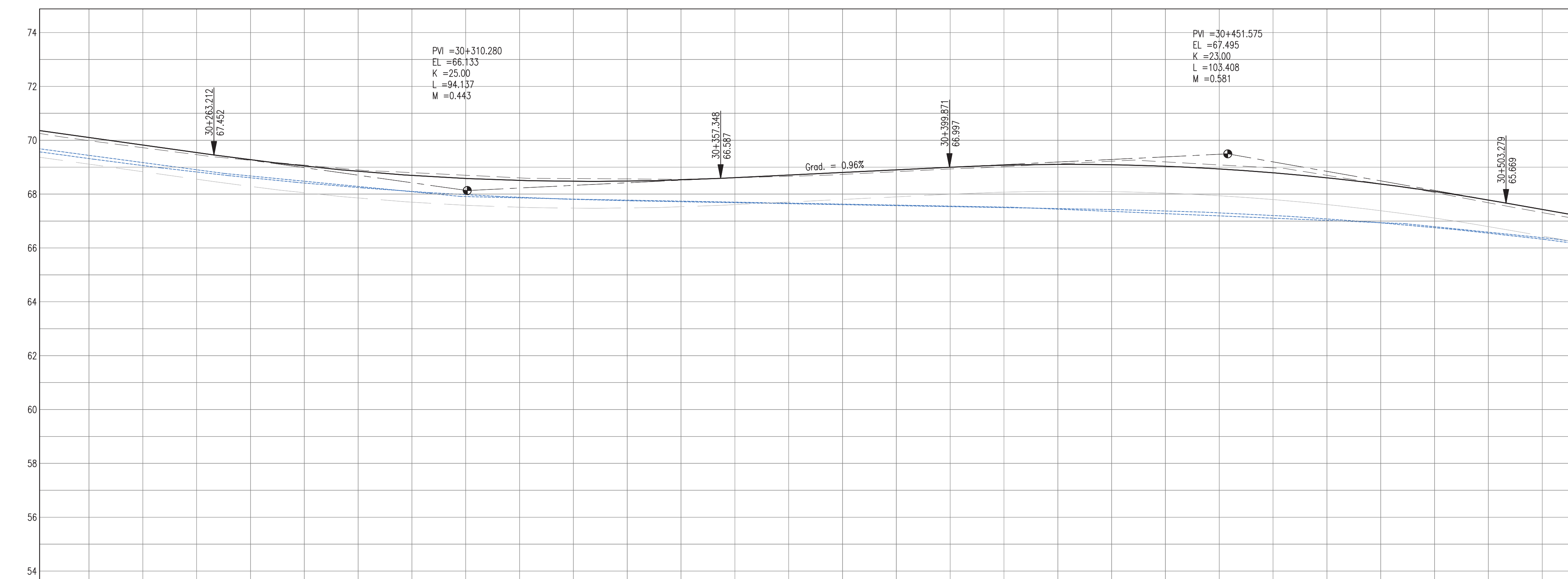
PLAN & PROFILE SEC. 3 - STA.30+189 TO 30+451

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
GPHRP-050-S3-D355	D

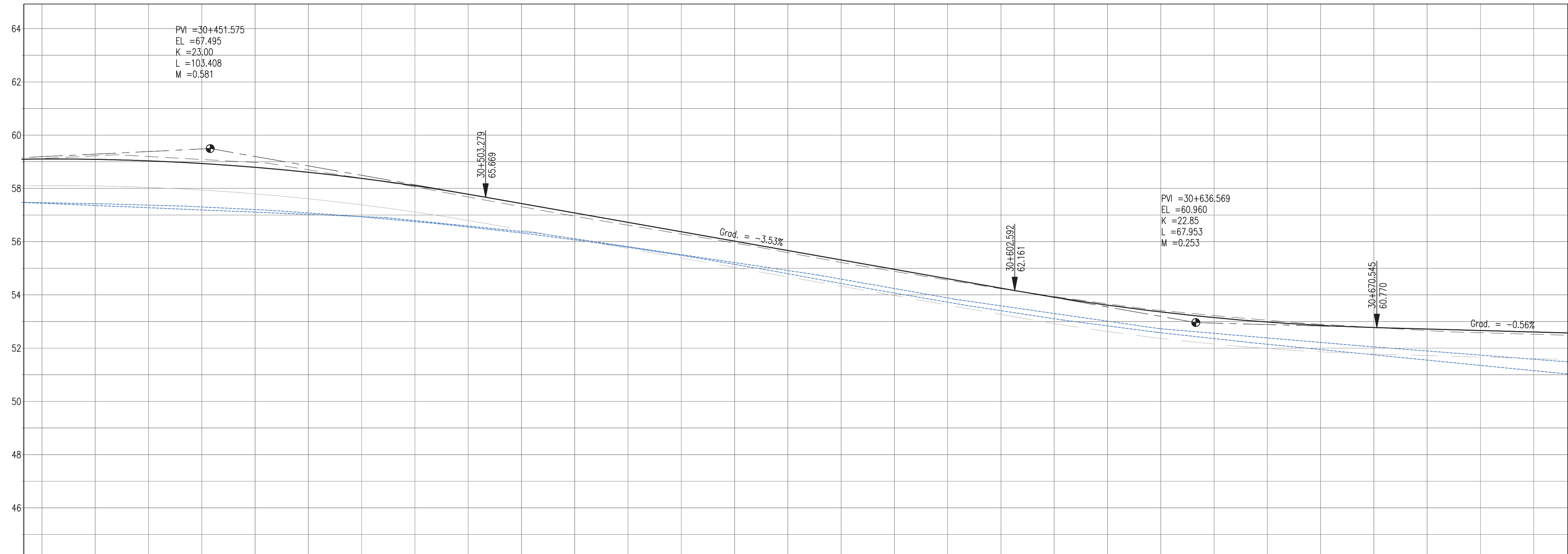
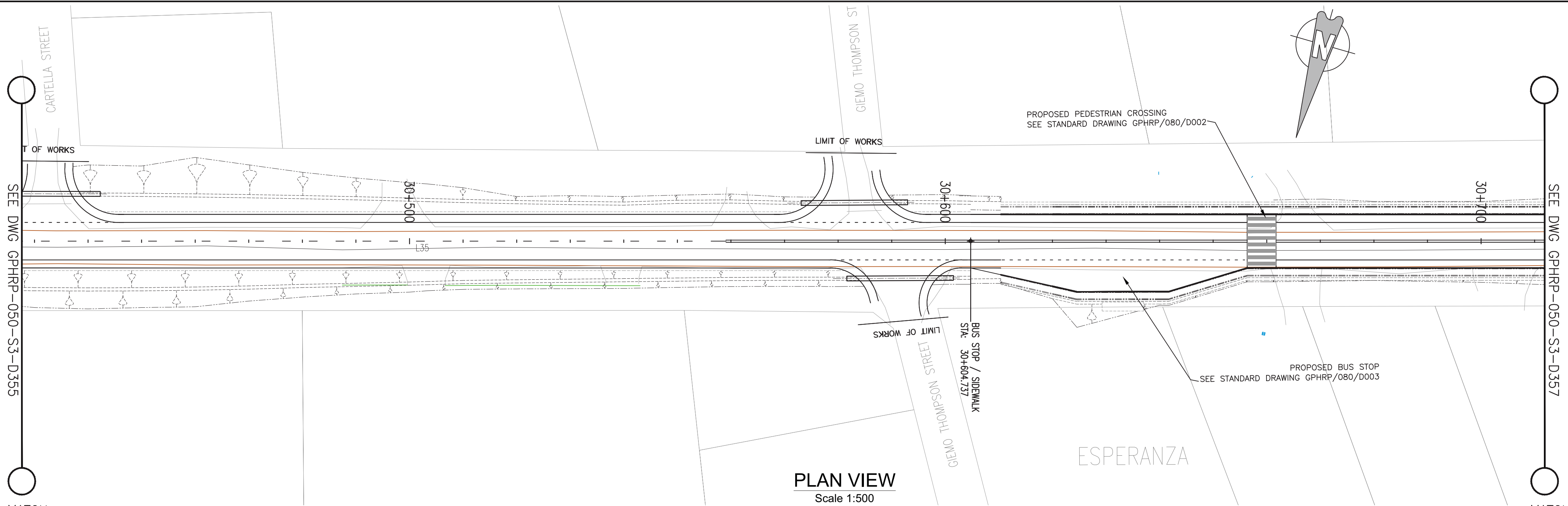
Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



PROFILE VIEW

Scale 1:500



PROPOSED		- 67.10	- 67.09	- 67.03	- 66.93	- 66.79	- 66.60	- 66.37	- 66.10	- 65.78	- 65.43	- 65.08	- 64.72	- 64.37	- 64.02	- 63.67	- 63.31	- 62.96	- 62.61	- 62.25	- 61.91	- 61.61	- 61.36	- 61.15	- 60.98	- 60.85	- 60.77	- 60.72	- 60.66	- 60.61	
SURVEY		67.12	67.22	67.20	67.08	66.97	66.70	66.38	66.06	65.68	65.31	64.96	64.62	64.28	63.95	63.59	63.22	62.88	62.56	62.23	61.94	61.67	61.41	61.22	61.05	60.90	60.77	60.66	60.58	60.52	
HORIZ. ALIGN.		D=1050.18																													
VERT. ALIGN.		K=23.000 R=2300.00 L=99.31 G=-3.532% K=22.855 R=2285.46 L=47.18 G=-0.559%																													
STATION		30+420	30+430	30+440	30+450	30+460	30+470	30+480	30+490	30+500	30+510	30+520	30+530	30+540	30+550	30+560	30+570	30+580	30+590	30+600	30+610	30+620	30+630	30+640	30+650	30+660	30+670	30+680	30+690	30+700	
SUPERELEVATION																															
DRAIN L		65.46	65.43	65.37	65.30	65.20	65.08	64.93	64.75	64.55	64.32	64.06	63.78	63.48	63.14	62.79	62.43	62.07	61.72	61.40	61.10	60.83	60.58	60.36	60.14	59.95	59.75	59.55	59.35	59.15	
DRAIN R		65.44	65.36	65.27	65.19	65.11	65.02	64.94	64.79	64.58	64.38	64.11	63.81	63.51	63.21	62.91	62.59	62.24	61.88	61.59	61.30	61.01	60.72	60.55	60.38	60.21	60.05	59.89	59.74	59.58	

- Notes:
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 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - - - - Proposed Ditch
 - Existing Road
 - Existing Fence
 - - - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE

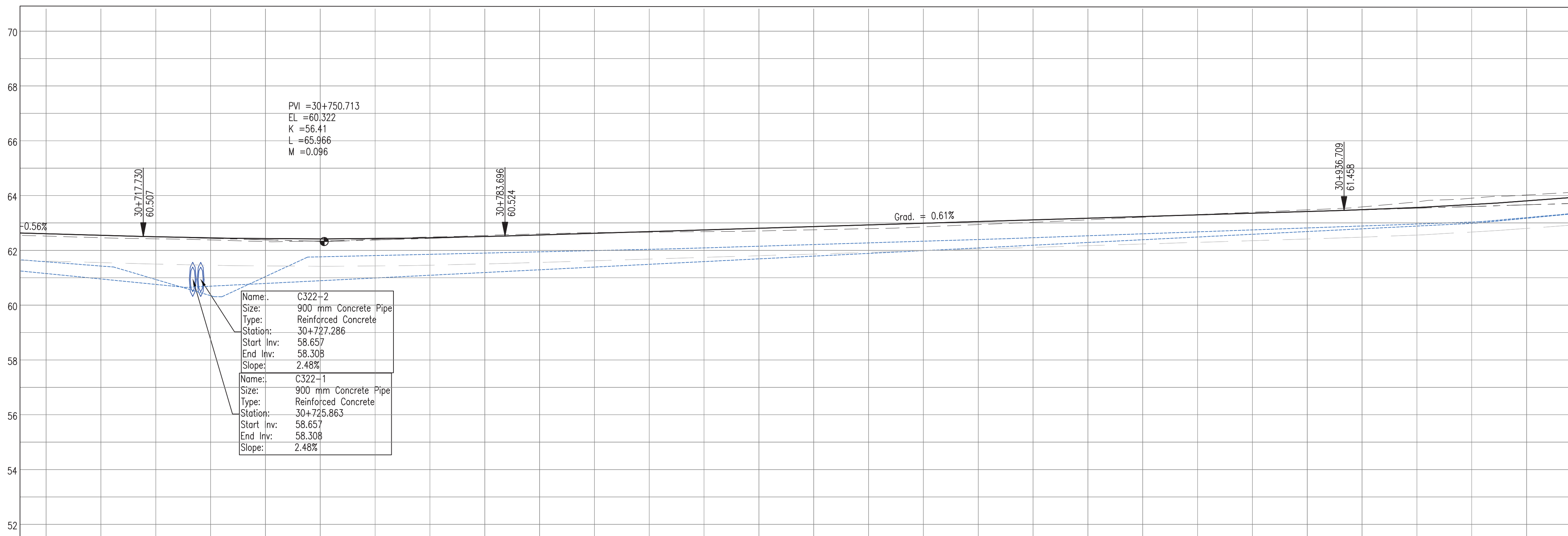
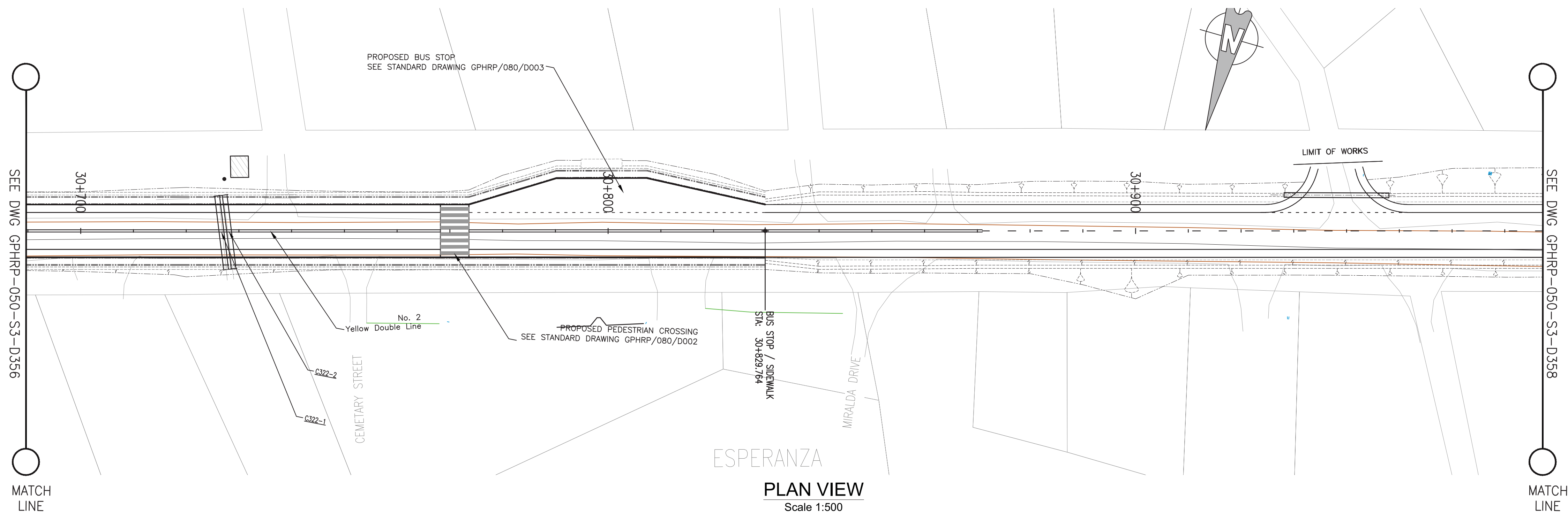
Ministry of Works
Belmopan, Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com

Project: George Price Highway Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.30+3451 TO 30+713

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016
Drawing No.	Revision
GPHRP-050-S3-D356	D
Drawing Scale: As noted at A1	
Plot Scale: 1 : 1000	



PROPOSED	60.61	60.55	60.49	60.45	60.43	60.42	60.43	60.46	60.50	60.56	60.62	60.68	60.75	60.81	60.87	60.93	60.99	61.05	61.11	61.17	61.23	61.29	61.36	61.42	61.48	61.56	61.67	61.80
SURVEY	60.52	60.46	60.42	60.38	60.32	60.34	60.41	60.49	60.55	60.60	60.65	60.66	60.68	60.71	60.75	60.79	60.86	60.94	61.02	61.11	61.21	61.31	61.39	61.48	61.58	61.77	61.90	62.02
HORIZ. ALIGN.																												
VERT. ALIGN.	-0.559%																											
STATION	30+700	30+710	30+720	30+730	30+740	30+750	30+760	30+770	30+780	30+790	30+800	30+810	30+820	30+830	30+840	30+850	30+860	30+870	30+880	30+890	30+900	30+910	30+920	30+930	30+940	30+950	30+960	30+970
SUPERELEVATION																												
DRAIN L	59.15	58.95	58.76	58.69	58.79	58.89	58.99	59.09	59.19	59.29	59.39	59.49	59.59	59.69	59.79	59.89	59.99	60.09	60.19	60.29	60.39	60.49	60.59	60.69	60.79	60.89	60.99	61.17
DRAIN R	59.58	59.43	59.33	59.34	59.05	59.76	59.81	59.86	59.90	59.95	59.99	60.04	60.09	60.15	60.21	60.27	60.33	60.40	60.46	60.53	60.60	60.68	60.75	60.82	60.89	60.96	61.03	61.20

PROFILE VIEW
Scale 1:500

- Notes:
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 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - ▨ Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SB
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

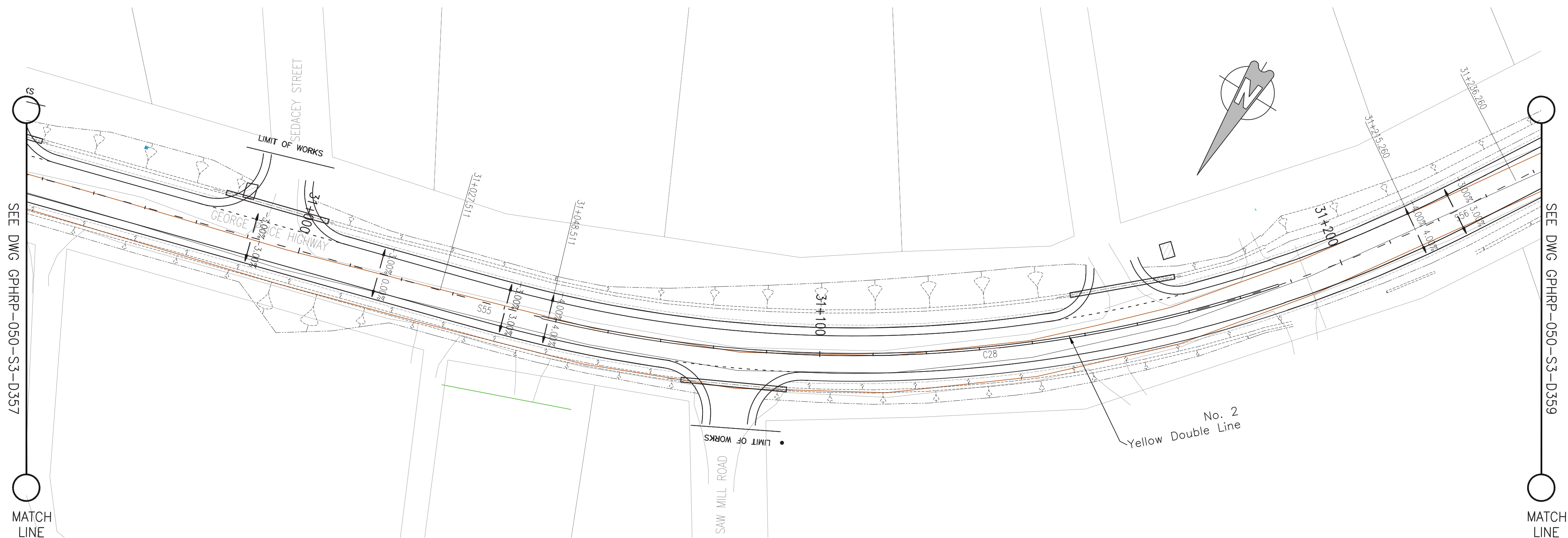
PLAN & PROFILE SEC. 3 - STA.30+713 TO 30+975

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

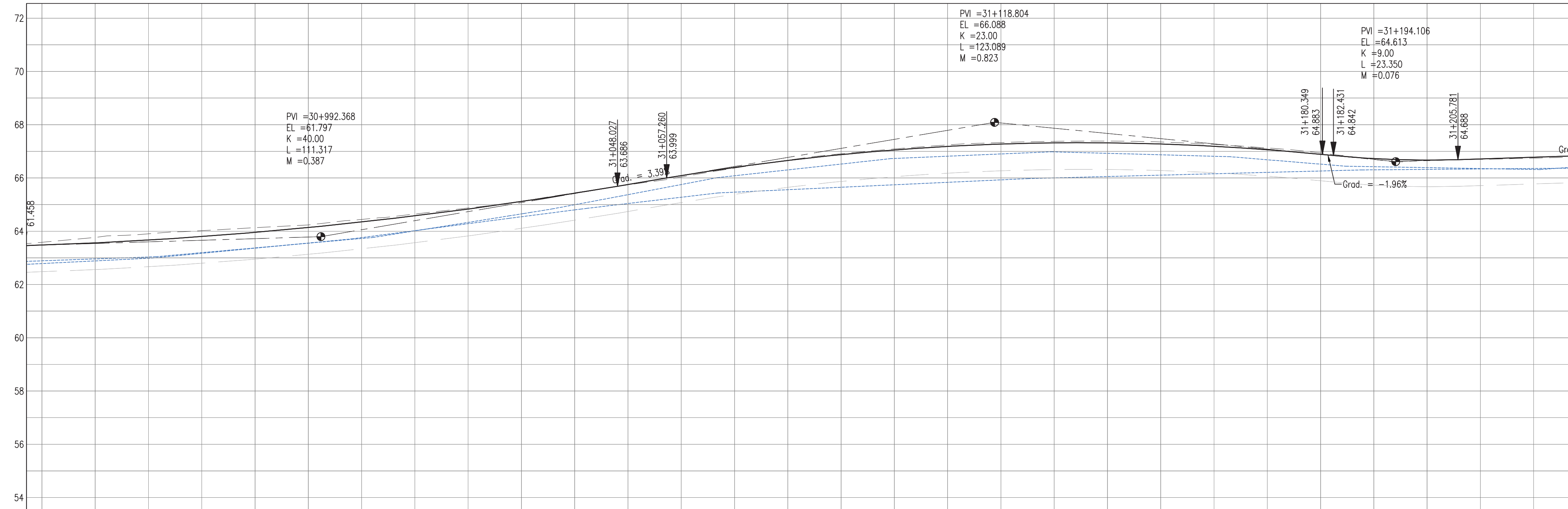
Drawing No. **GPHRP-050-S3-D357** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



PLAN VIEW
Scale 1:500



PROFILE VIEW
Scale 1:500

PROPOSED	61.48	61.56	61.67	61.80	61.96	62.14	62.34	62.58	62.83	63.12	63.42	63.75	64.09	64.40	64.66	64.88	65.05	65.18	65.27	65.32	65.32	65.28	65.19	65.06	64.89	64.73	64.67	64.71	64.78																					
SURVEY	61.58	61.77	61.90	62.02	62.14	62.24	62.44	62.65	62.87	63.13	63.44	63.74	64.04	64.37	64.67	64.91	65.09	65.24	65.33	65.38	65.38	65.35	65.26	65.13	64.94	64.69	64.66	64.70	64.74																					
HORIZ. ALIGN.											CL=21.00										R=250.00 L=166.75										CL=21.00																			
VERT. ALIGN.	K=40.000 R=4000.00										L=9.23 G=3.39%										K=23.000 R=2300.00										L=2.06 G=-1.958% R=900.00										L=48.23 G=3.39%									
STATION	30+940	30+950	30+960	30+970	30+980	30+990	31+000	31+010	31+020	31+030	31+040	31+050	31+060	31+070	31+080	31+090	31+100	31+110	31+120	31+130	31+140	31+150	31+160	31+170	31+180	31+190	31+200	31+210	31+220																					
SUPERELEVATION	K=40.000 R=4000.00										L=9.23 G=3.39%										K=23.000 R=2300.00										L=2.06 G=-1.958% R=900.00										L=48.23 G=3.39%									
DRAIN L	60.79	60.89	60.99	61.17	61.36	61.56	61.76	62.02	62.28	62.55	62.80	63.04	63.28	63.47	63.56	63.65	63.74	63.84	63.93	64.00	64.05	64.11	64.16	64.21	64.26	64.31	64.32	64.34	64.36																					
DRAIN R	60.89	60.96	61.03	61.20	61.37	61.55	61.73	62.02	62.33	62.65	63.00	63.37	63.76	64.08	64.30	64.52	64.73	64.82	64.90	64.98	64.92	64.87	64.81	64.68	64.52	64.42	64.39	64.35	64.32																					

- Notes:
- This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
 - All dimensions and elevations to be checked on site and any discrepancies identified prior to commencement of work.
 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - ⊗ EP Existing Electrical Post
 - ▲ GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

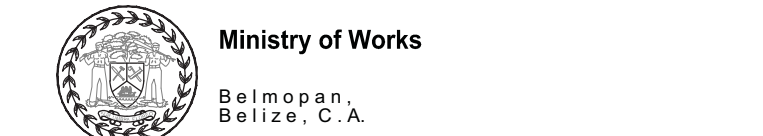
Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
4 Rust Street, St. Clair
Port of Spain, Trinidad and Tobago, W.I.
Tel: +1 868 222 7290 Fax: +1 868 221 8883
www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

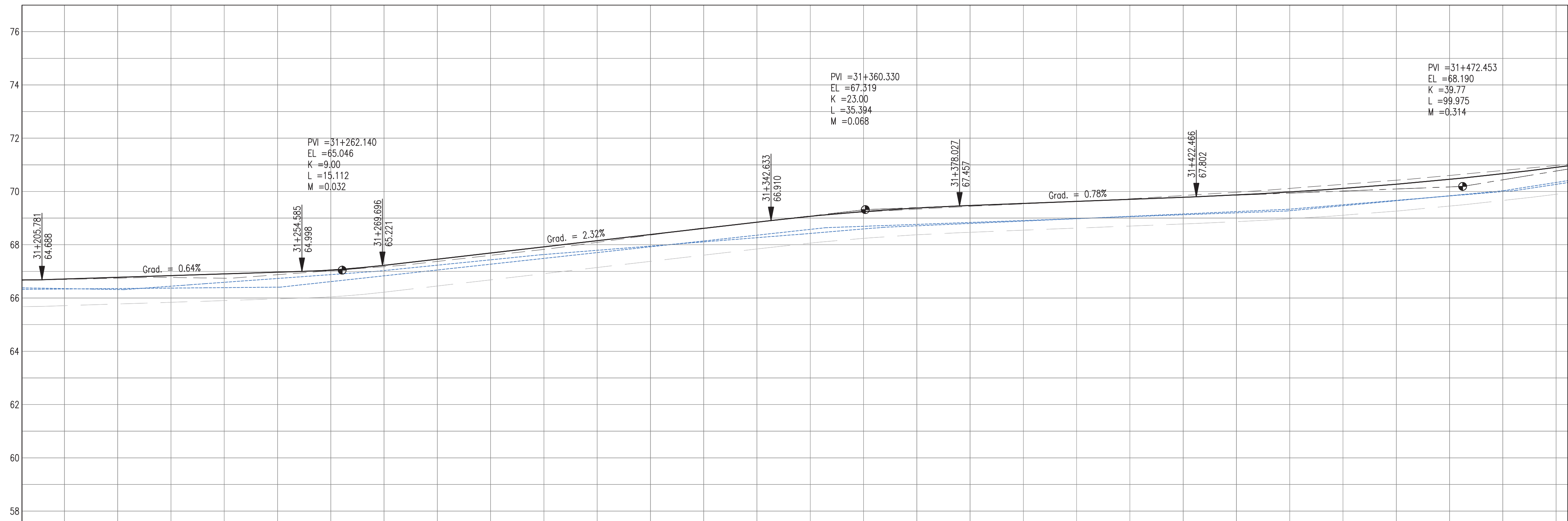
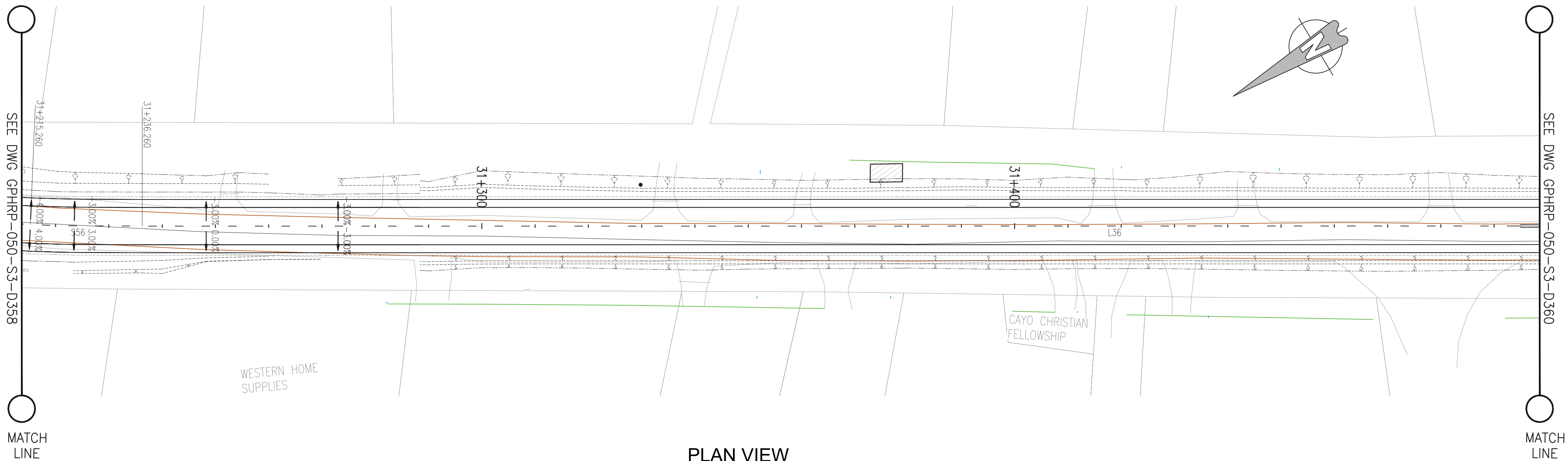
PLAN & PROFILE SEC. 3 - STA.30+975 TO 31+237

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D358** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



PROPOSED			64.71			64.78			64.84			64.91			64.97			65.05			65.23			65.46			65.69			65.92			66.15			66.39			66.62			66.85			67.07			67.25			67.38			67.47			67.55			67.63			67.71			67.78			67.87			67.98			68.11			68.27			68.45			68.66			68.90																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
SURVEY			64.70			64.74			64.77			64.74			64.87			65.03			65.17			65.38			65.60			65.82			66.09			66.36			66.63			66.85			67.06			67.23			67.34			67.44			67.53			67.63			67.72			67.85			67.97			68.12			68.27			68.42			68.60			68.79			68.97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
HORIZ. ALIGN.					CL=21.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

- Notes:
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 - All dimensions in meters unless otherwise noted.
 - All elevations in meters unless otherwise noted.

- Legend:
- UP Existing Lamp Post
 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
 - Existing Road
 - Existing Fence
 - Existing Drain
 - Existing Building

- EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SB
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project
George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.31+237 TO 31+499

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016








Drawing No. **GPHR-050-S3-D359** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000

- Notes:
1. This drawing is to be read in conjunction with the relevant specification and all other relevant drawings.
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Legend:

-  UP Existing Lamp Post
 EP Existing Electrical Post
 GW Existing Guy Wire
 Cut/Fill Slopes
 Proposed Ditch
 Existing Road
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Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED – DECEMBER COMMENT
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



Ministry of Works
Belmopan,
Belize, C.A.

Designer: Halcrow Group (T&T) Ltd, a CH2M HILL Company
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Project

George Price Highway
Rehabilitation Project

PLAN & PROFILE SEC. 3 - STA.31+499 TO 31+761

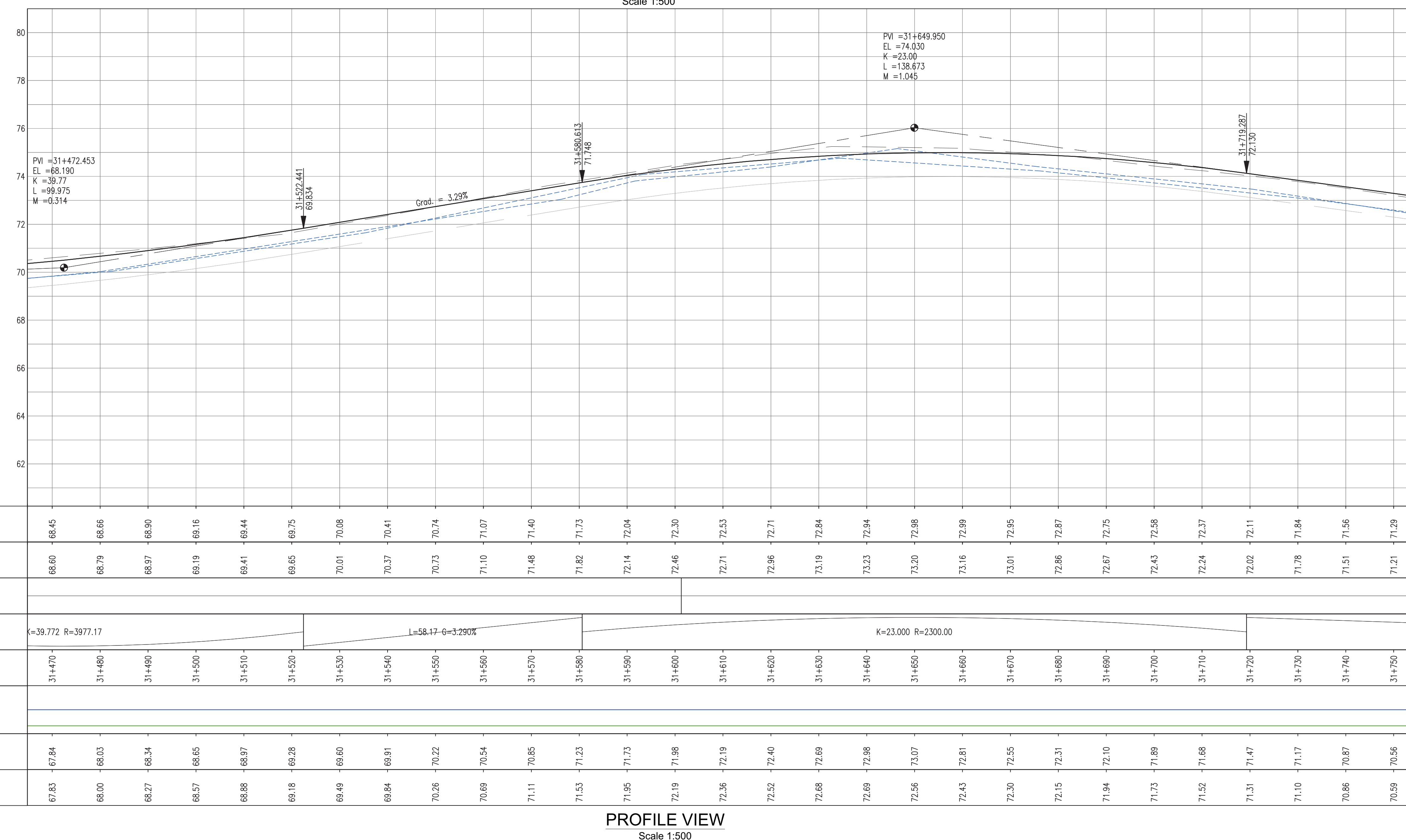
Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
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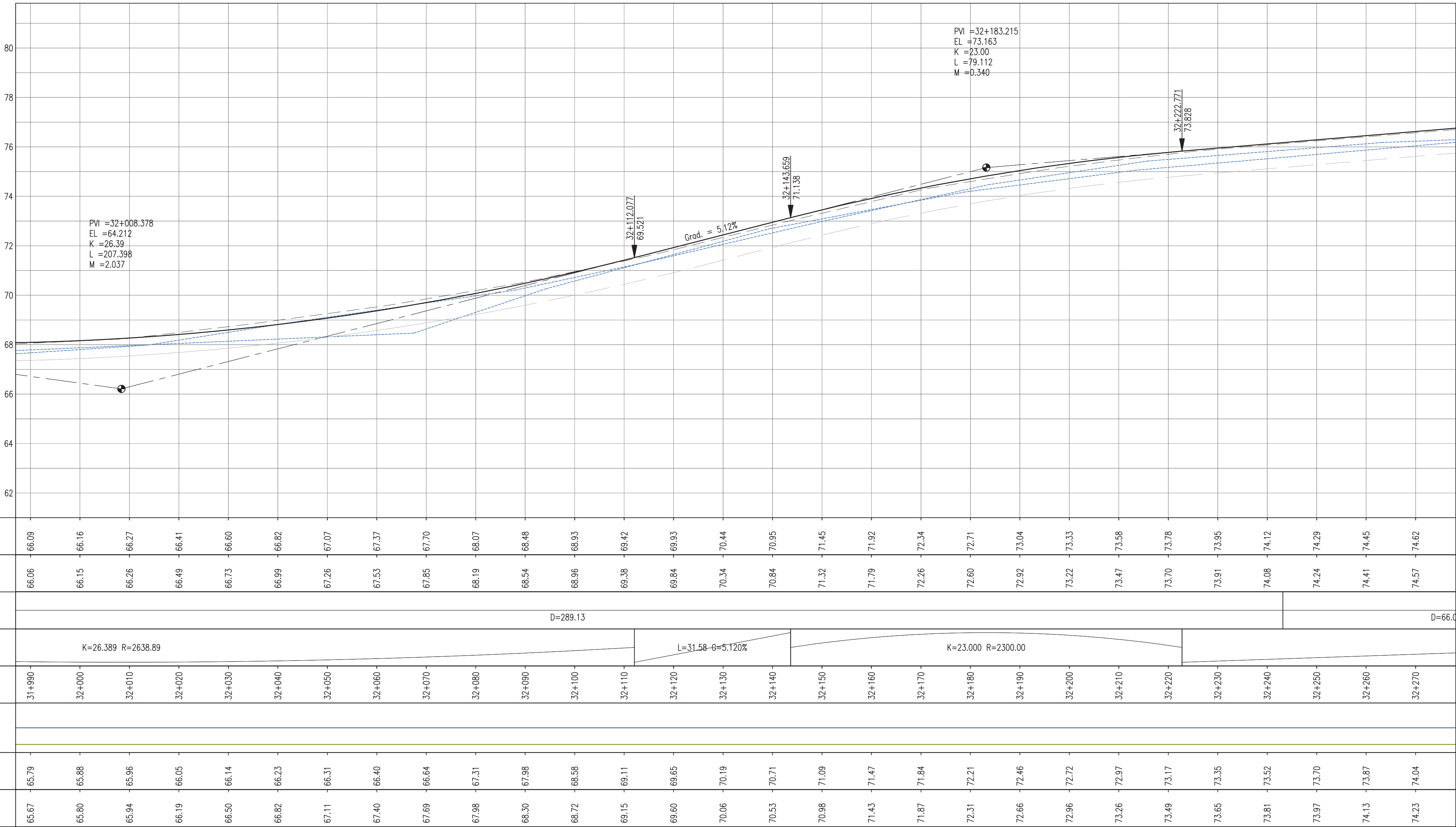
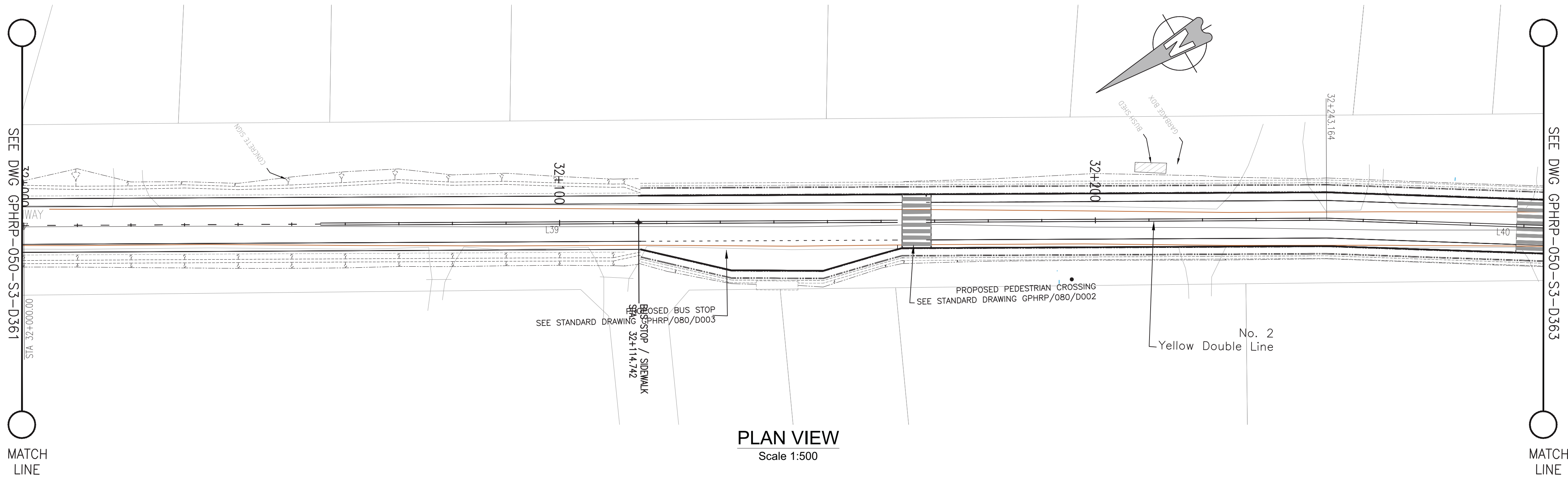
GPHRP-050-S3-D360

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



Drawing file path & name : H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE\GPFR050-S3-D362 Plan & Profile SEC. 3 - STA.32+023 to 32+285.dwg
Reference file path : H:\Belize\George Price Highway\ACAD\SECTION 3\PLAN&PROFILE\GPFR050-S3-D362 Plan & Profile SEC. 3 - STA.32+023 to 32+285.dwg
User and Plot Date : WS007 : 23:12017 - 10:1 pm



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Legend:

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Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
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Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

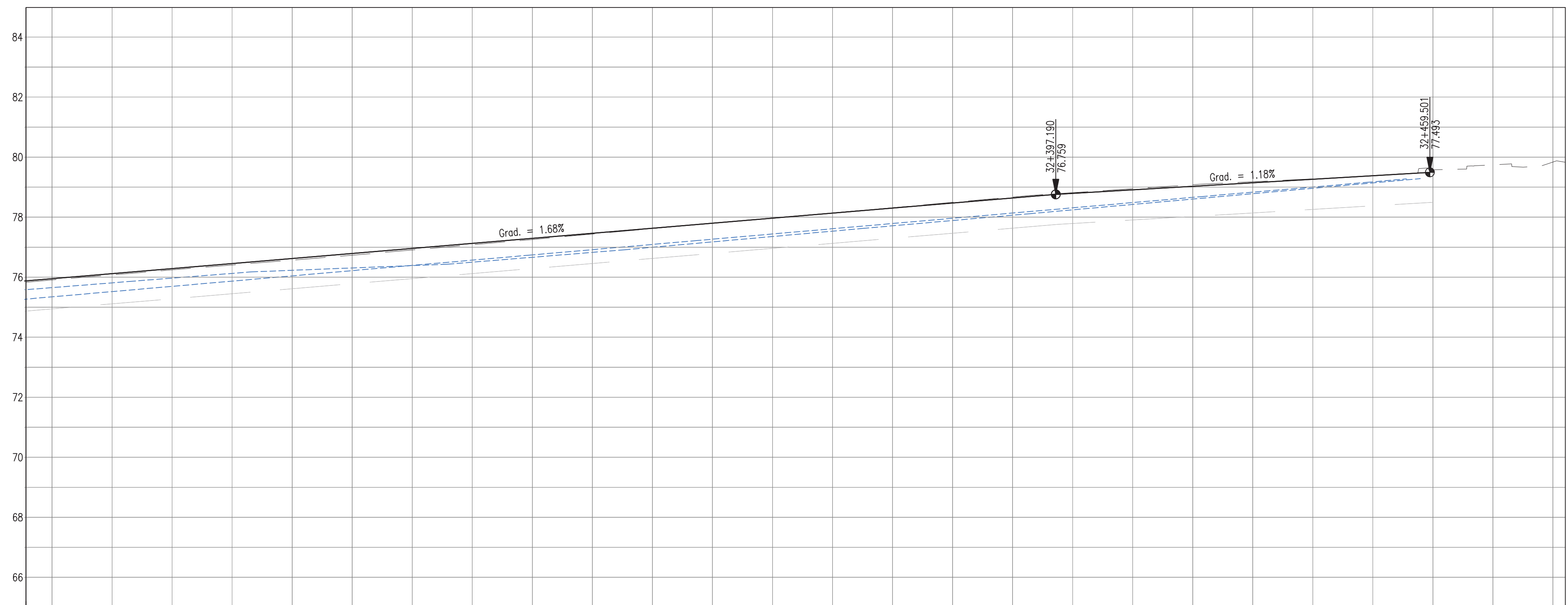
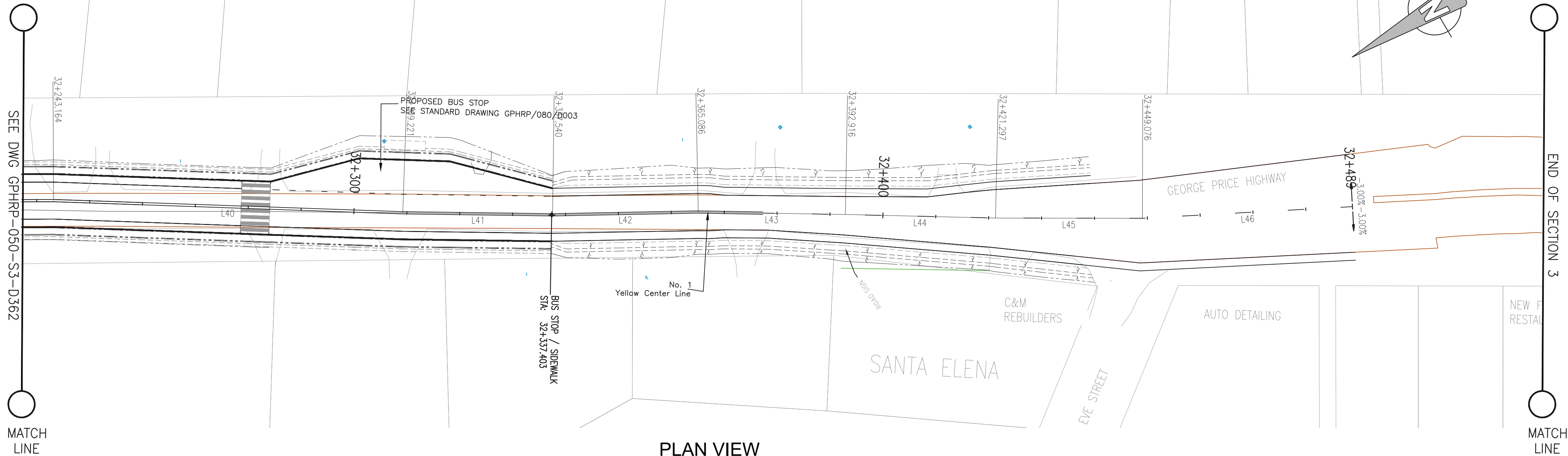
PLAN & PROFILE SEC. 3 - STA.32+023 TO 32+285

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHR-050-S3-D362** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



PROPOSED																											
	73.95	74.12	74.29	74.45	74.62	74.79	74.96	75.13	75.29	75.46	75.63	75.80	75.97	76.13	76.30	76.47	76.64	76.79	76.91	77.03	77.15	77.26	77.38				
SURVEY	73.91	74.08	74.24	74.41	74.57	74.73	74.91	75.08	75.26	75.44	75.62	75.80	75.97	76.14	76.32	76.49	76.67	76.82	76.95	77.08	77.18	77.27	77.37	77.58	77.74	77.84	
HORIZ. ALIGN.			D=66.06						D=28.32				D=27.55			D=27.83			D=28.38			D=27.78			D=39.76		
VERT. ALIGN.	L=174.42 G=1.680%																		L=62.31 G=1.178%								
STATION	32+230	32+240	32+250	32+260	32+270	32+280	32+290	32+300	32+310	32+320	32+330	32+340	32+350	32+360	32+370	32+380	32+390	32+400	32+410	32+420	32+430	32+440	32+450	32+460	32+470	32+480	
SUPERELEVATION																											
DRAIN L	73.35	73.52	73.70	73.87	74.04	74.22	74.39	74.57	74.74	74.92	75.09	75.27	75.44	75.62	75.79	75.96	76.14	76.31	76.49	76.66	76.83	77.01	77.18				
DRAIN R	73.65	73.81	73.97	74.13	74.23	74.31	74.39	74.50	74.66	74.83	75.00	75.18	75.36	75.54	75.71	75.89	76.07	76.24	76.42	76.60	76.78	76.96	77.14				

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 - All elevations in meters unless otherwise noted.

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 - EP Existing Electrical Post
 - GW Existing Guy Wire
 - Cut/Fill Slopes
 - Proposed Ditch
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 - Existing Drain
 - Existing Building

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- MIN ROAD CROSS SECTION 6m WITH 1m WIDE SHOULDER TO BE CONFIRMED ON SITE BY ENGINEER

Superelevation

Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFS
End normal crown	ENC
Manual	MAN
End of alignment	EOA
Reverse crown	RC
End normal shoulder	ENS

100% FINAL DESIGN

D	KA	MR	MS	09.01.17	100% FINAL DESIGN REVISED - DECEMBER COMMENTS
C	KA	MR	MS	28.10.16	100% FINAL DESIGN
B	KA	MR	MS	14.10.16	100% DRAFT DESIGN
A	KA	MR	MS	07.07.16	90% DESIGN
Revision	By	Checked	Approved	Date	Description

Employer: GOVERNMENT OF BELIZE



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www.ch2m.com



Project
George Price Highway
Rehabilitation Project

Drawing Title

PLAN & PROFILE SEC. 3 - STA.32+285 TO 32+489

Drawn by KA Date: 07 JUL, 2016
Checked by MR Date: 07 JUL, 2016
Authorised by MS Date: 07 JUL, 2016

Drawing No. **GPHRP-050-S3-D363** Revision **D**

Drawing Scale: As noted at A1

Plot Scale: 1 : 1000



Vertical Curve Information (sag curve)		
PVC Station:	0+133.322	Elevation: 45.610m
PVI Station:	0+159.747	Elevation: 44.862m
PVT Station:	0+186.171	Elevation: 44.683m
Low Point:	0+186.171	Elevation: 44.683m
Grade in:	-2.83%	Grade out: -0.68%
Change:	2.15%	K: 24.543m
Curve Length:	52.849m	Curve Radius 2,454.266m
Headlight Distance:	629.881m	

1. EXISTING SIDE ROAD TO TIE IN FROM SHOULDER. MINIMUM 10m TO BE CONFIRMED ON SITE BY ENGINEER.
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Begin full super	BFS
Level crown	LC
Low shoulder match	LSM
Shoulder breakover	SBO
End Shoulder Rollover	ESR
Begin normal crown	BNC
Begin Shoulder Rollover	BSR
Begin of alignment	BOA
Begin normal shoulder	BNS
End full super	EFs
End normal crown	ENC
Manual	MAN
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C	KA	MR	MS	28.10.16	100% FINAL DESIGN
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Revision	By	Checked	Approved	Date	Description

Ministry of Works
Belmopan,
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Project

George Price Highway Rehabilitation Project

Drawing Title

PLAN & PROFILE SPANISH LOOKOUT - STA. 0+000
TO 0+113

Drawn by KA	Date: 07 JUL, 2016
Checked by MR	Date: 07 JUL, 2016
Authorised by MS	Date: 07 JUL, 2016

Drawing No.	Revision
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GPHRP-050-S3-D364

Drawing Scale: As noted at A1

Plot Scale: 1 : 1