Oversight / NHS	
FHWA REGION VIII OVERSIGHT?	☐ NO ☐ YES
NATIONAL HIGHWAY SYSTEM?	☐ NO ☐ YES

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED

FEDERAL AID PROJECT NO. FBR 0704-230

STATE HIGHWAY NO. XXX

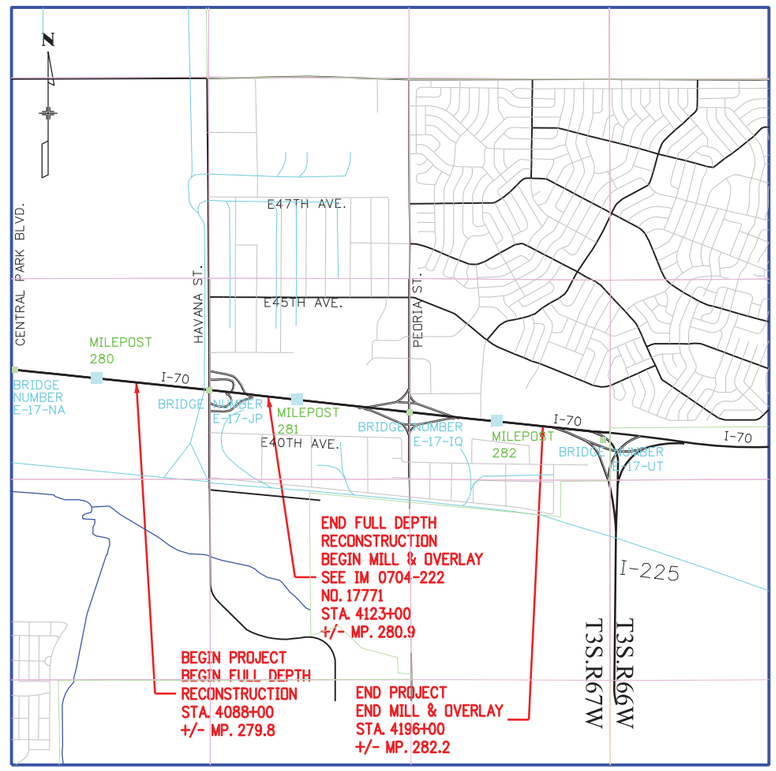
DENVER COUNTY

CONSTRUCTION PROJECT CODE NO. 19339

I-70 OVER HAVANA STREET DESIGN BUILD

Related Projects:
P. E. UNDER PROJECT:
Project Number XXXXXXXXX
Project Code: XXXXX

R.O.W. Projects:
R.O.W. Project Description
XXXXXXXXXXXXXXX



PROJECT LOCATION MAP

0' 1000' 2000' 4000'

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	SITE PLAN WEST OF HAVANA
3	SITE PLAN EAST OF HAVANA
4-9	TYPICAL SECTIONS 1 to 6
10-11	I-70 PLAN AND PROFILE 1&2
12	EB RAMPS PLAN AND PROFILE
13	WB RAMPS PLAN AND PROFILE
14	FUTURE UPRR PLAN AND PROFILE
15	EXIST. UPRR PLAN AND PROFILE
16-17	GEOMETRIC DATA 1&2
18-20	WALL PLAN AND PROFILE 1 to 3
21	BRIDGE GENERAL LAYOUT
22-23	BRIDGE TYPICAL SECTION 1&2
24-28	CROSS SECTIONS 1 to 5
29	MOT TYPICAL SECTIONS
30-34	MOT PHASE 1A 1 to 5
35-39	MOT PHASE 1B 1 to 5
40-45	MOT PHASE 2A 1 to 6
46-51	MOT PHASE 2B 1 to 6
52-57	MOT PHASE 3 1 to 6

Print Date: 8/2/2013
File Name: 19339_DES_TitleSheet.dgn
Horiz. Scale: 1:2000 Vert. Scale:

PARSONS
1776 Lincoln Suite 600
Denver, CO 80203
(303) 863-7900

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
2000 S. Holly St.
Denver, CO 80222
Phone: 303-512-4272 FAX: 303-757-9886
Region 1 DK

As Constructed
No Revisions:
Revised:
Void:

Contract Information
Contractor:
Resident Engineer:
Project Engineer:
PROJECT STARTED: __/__/__ ACCEPTED: __/__/__
Comments:

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 1

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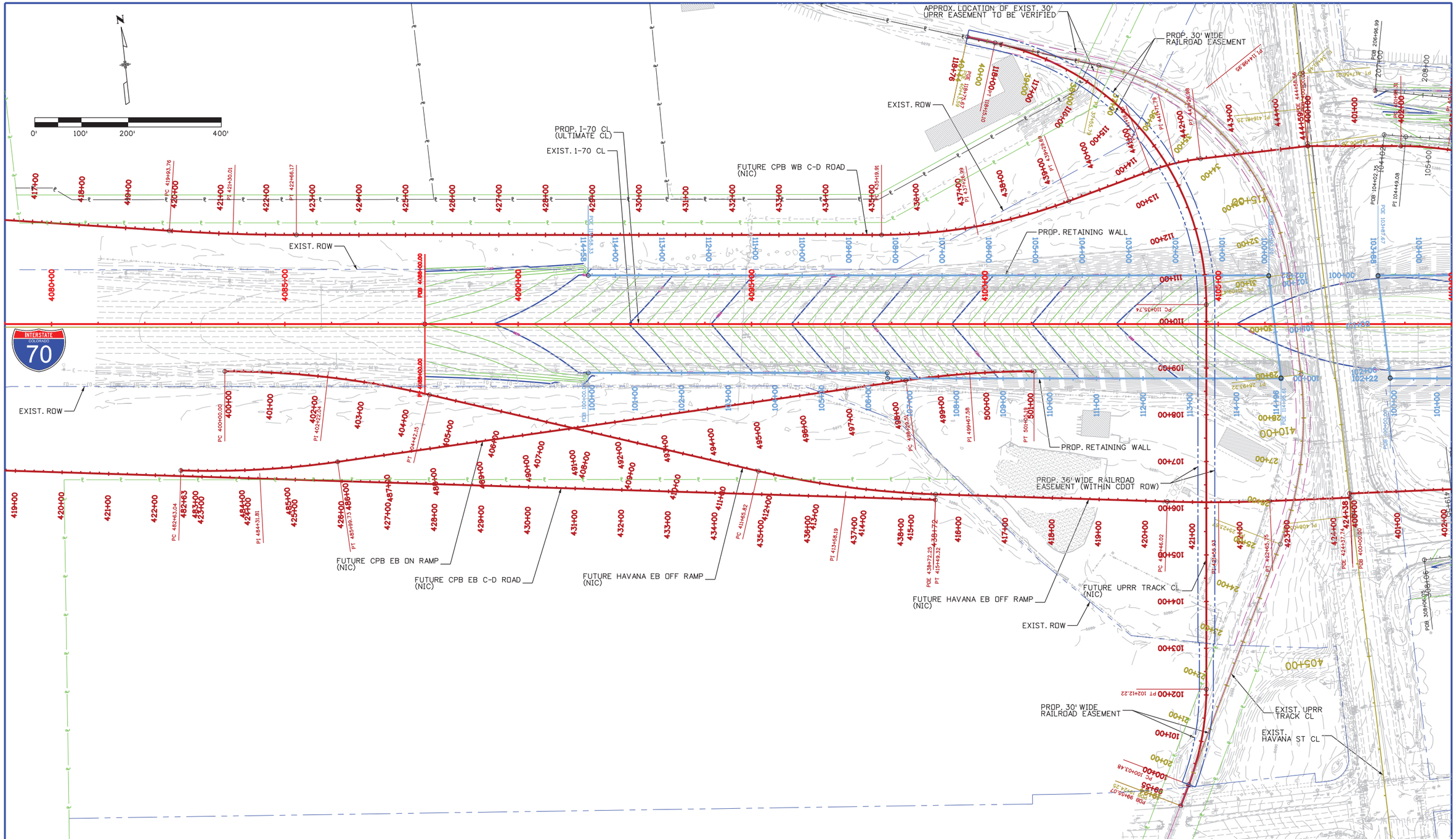

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(303) 863-7900

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
CDOT DEPARTMENT OF TRANSPORTATION
2000 S. Holly St.
Denver, CO 80222
Phone: 303-512-4272 FAX: 303-757-9886
Region 1 DK

As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
SITE PLAN WEST OF HAVANA

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 2

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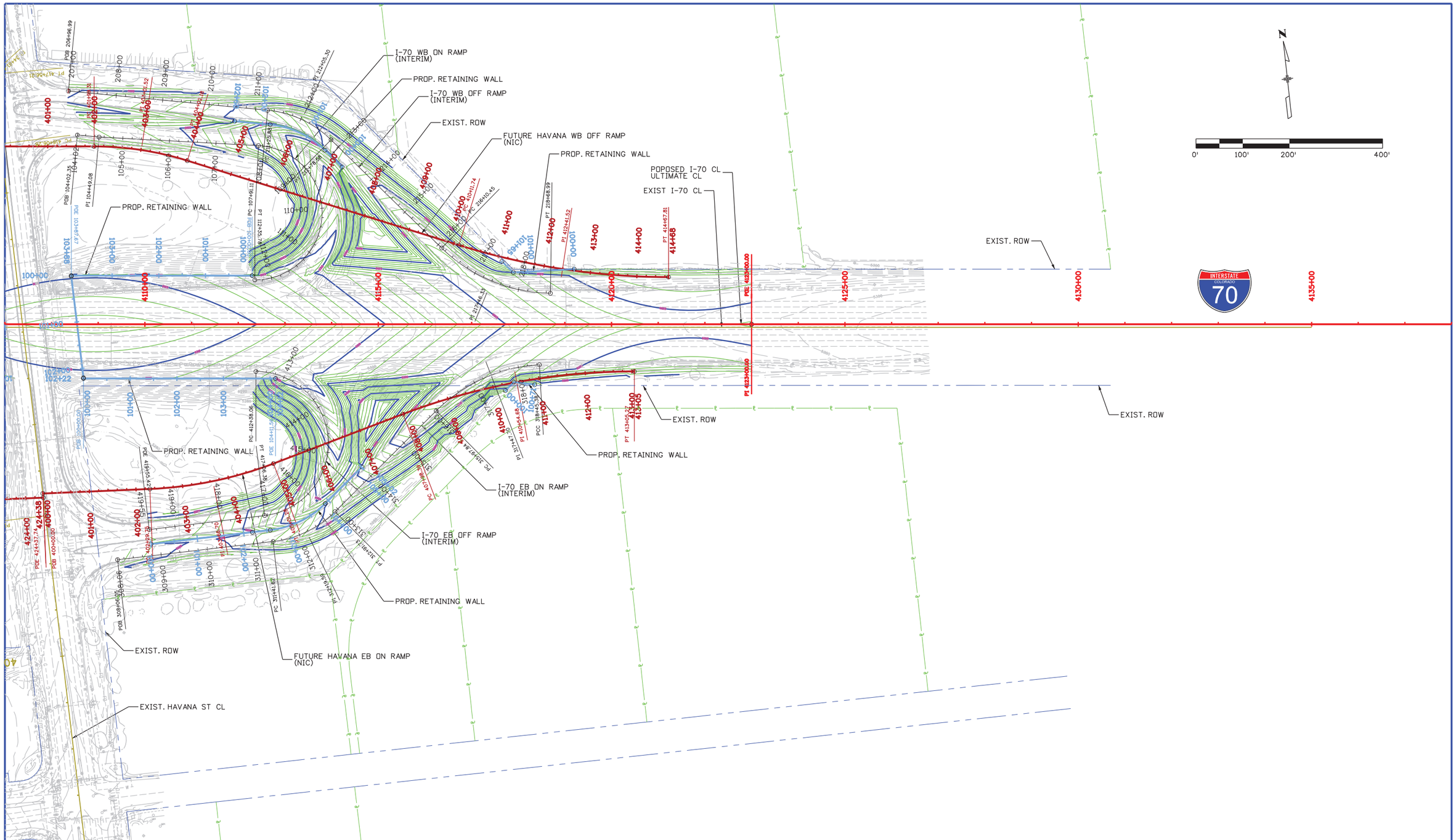

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
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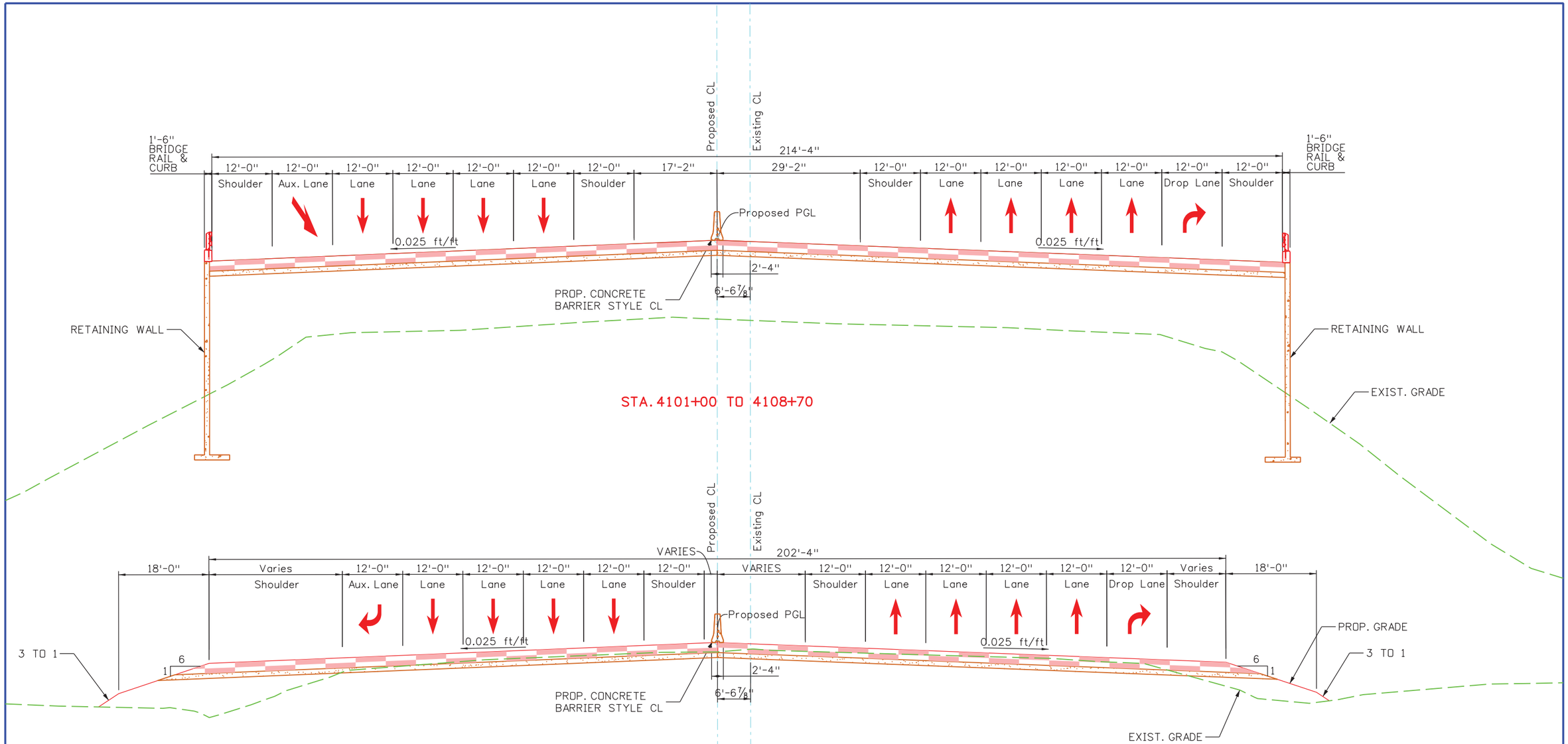
DEPARTMENT OF TRANSPORTATION
2000 S. Holly St.
Denver, CO 80222
Phone: 303-512-4272 FAX: 303-757-9886
Region 1 DK

As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
SITE PLAN EAST OF HAVANA

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 3



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Horiz. Scale: 1:20 Vert. Scale:			Revised:	Designer: / Structure Numbers	19339 (CN)
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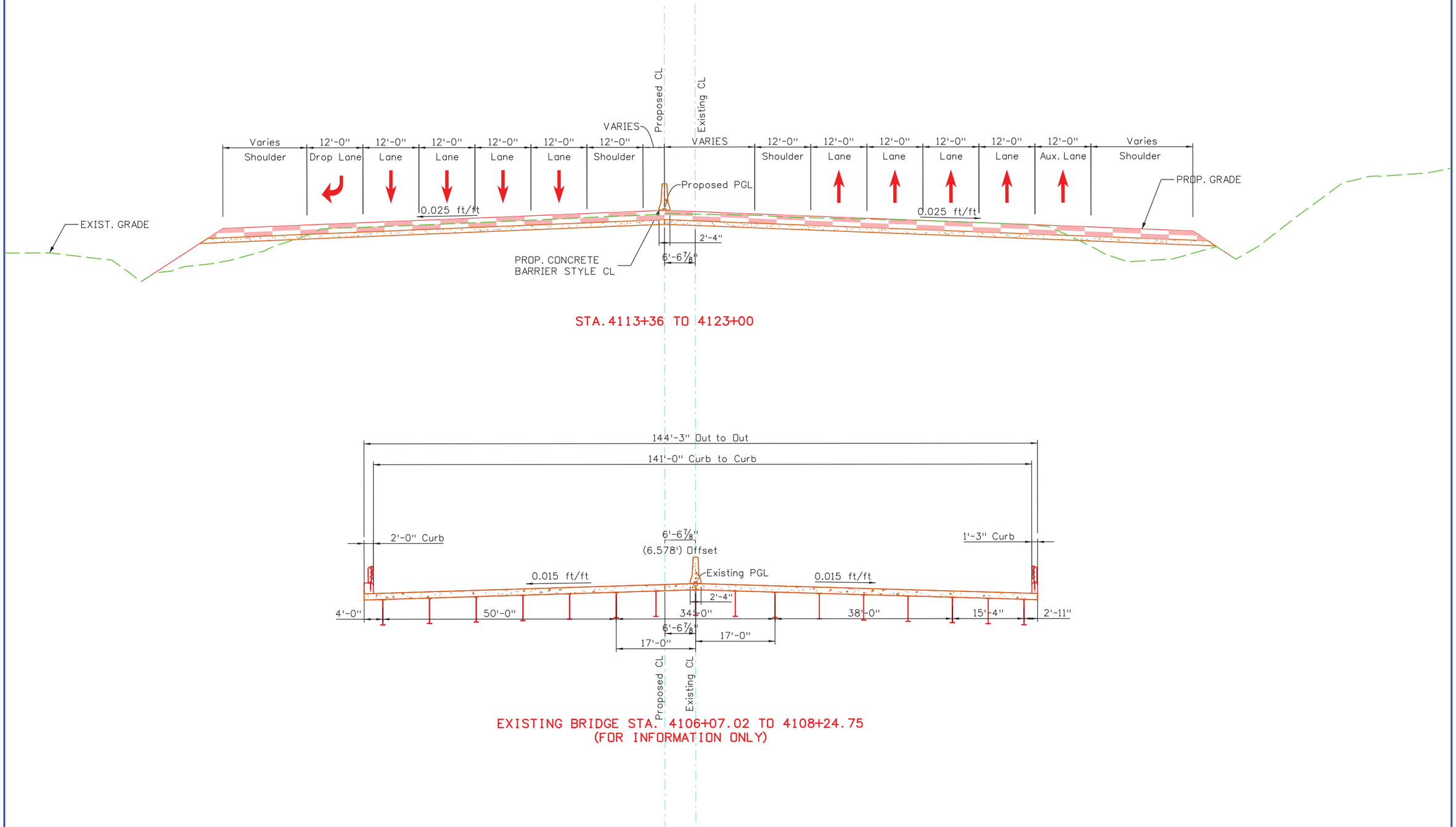

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Horiz. Scale: 1:20 Vert. Scale:		Phone: 303-512-4272 FAX: 303-757-9886	Revised:	Designer:	Structure Numbers	19339 (CN)
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900		Region 1 DK	Void:	Detailer:		Sheet Number 5
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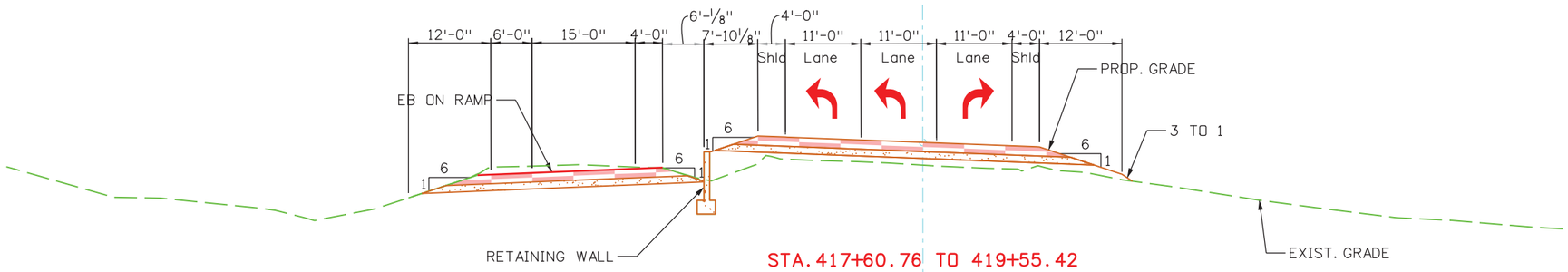
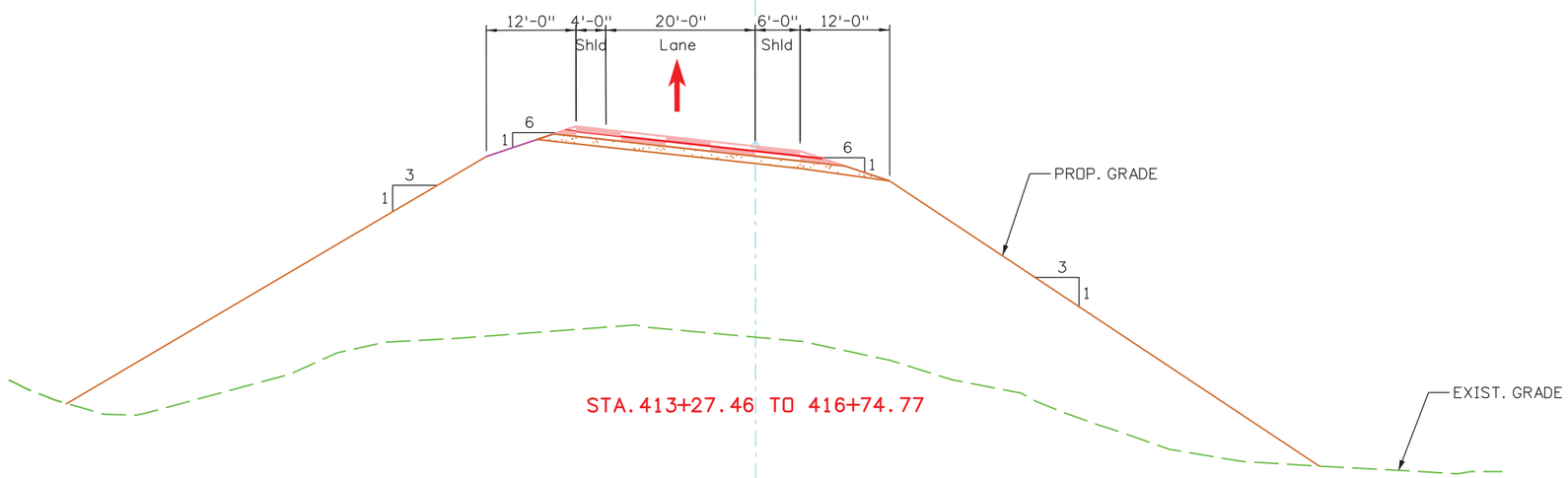
EB Off Ramp



STA. 417+60.76 TO 419+55.42



STA. 413+27.46 TO 416+74.77

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Horiz. Scale: 1:20 Vert. Scale:		Phone: 303-512-4272 FAX: 303-757-9886	Revised:
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900		Region 1 DK	Void:

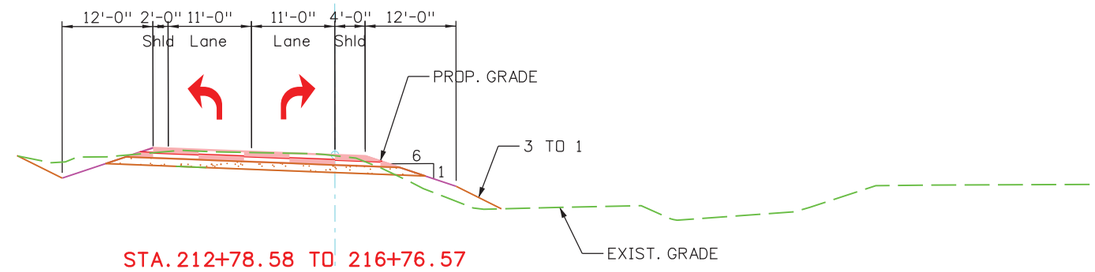
I-70 OVER HAVANA STREET
DESIGN BUILD
TYPICAL SECTION 3

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 6

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

WB Off Ramp



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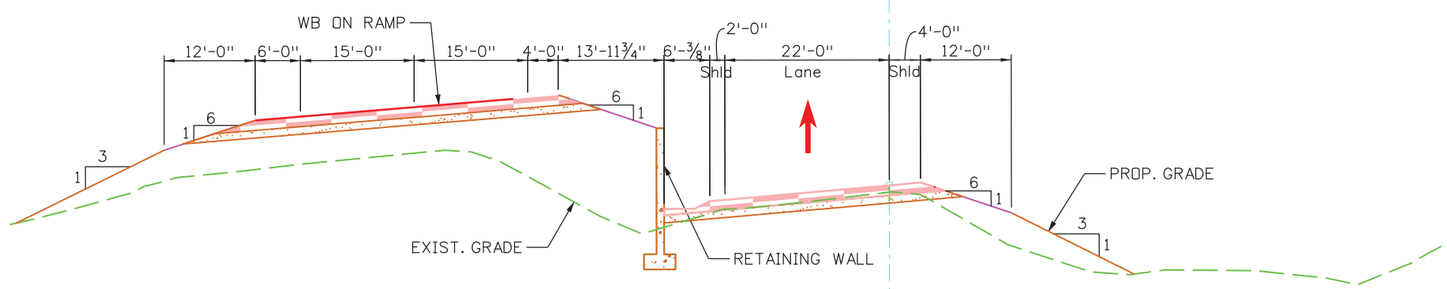

WALL CUT AT STA. 211+25.88 WB OFF RAMP=
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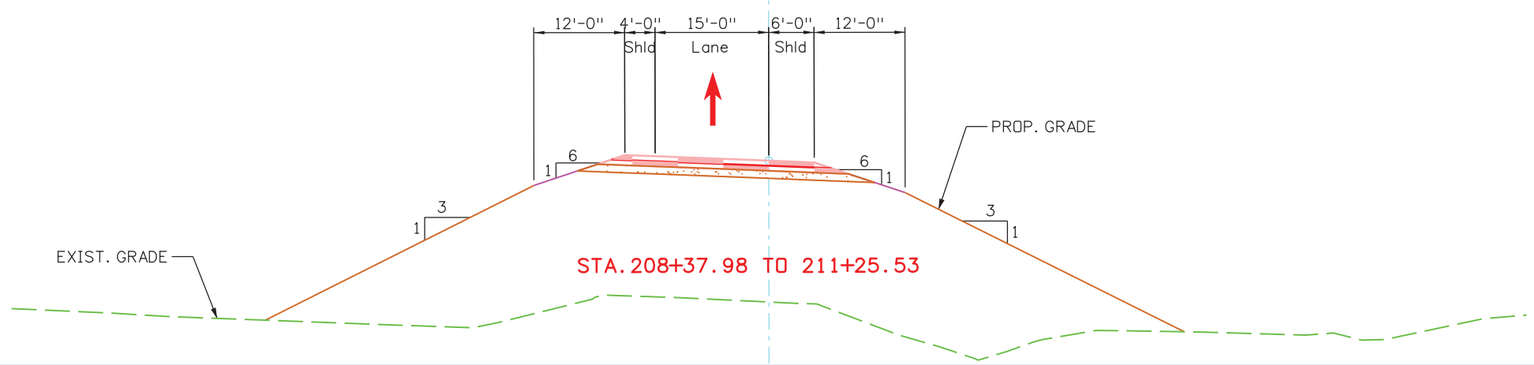

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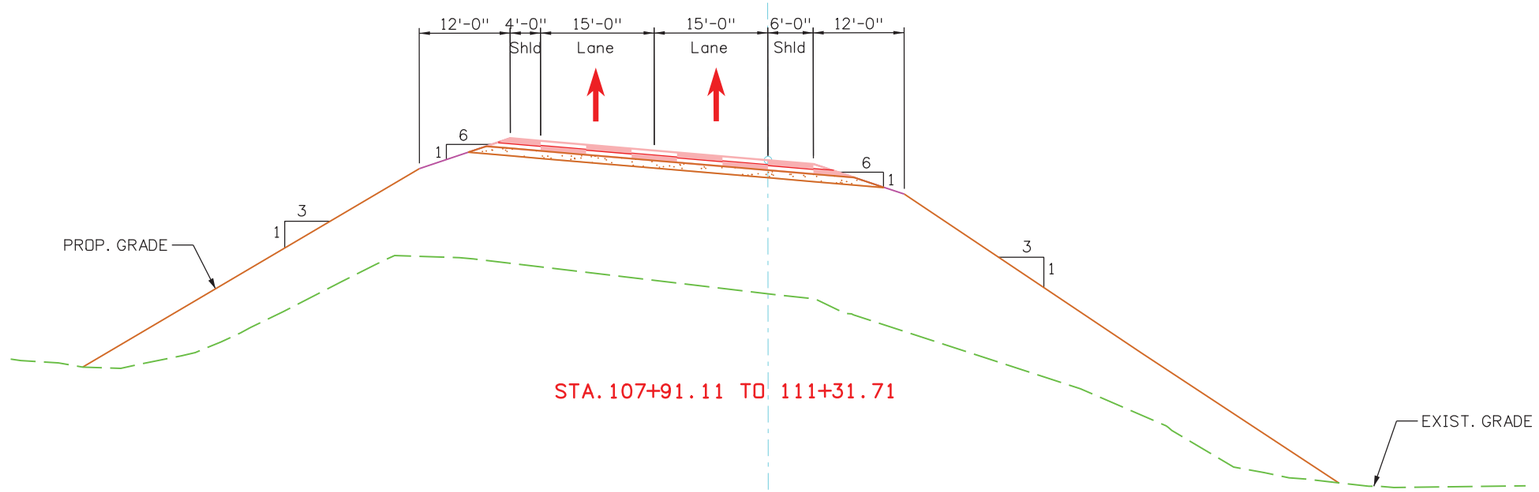
Print Date: 8/7/2013	Sheet Revisions	Colorado Department of Transportation	As Constructed	I-70 OVER HAVANA STREET DESIGN BUILD TYPICAL SECTION 4	Project No./Code
File Name: 19339_DES_Typcal Section-4.dgn	Date: / Comments / Init.	2000 S. Holly St. Denver, CO 80222	No Revisions:		FBR 0704-230
Horiz. Scale: 1:20 Vert. Scale:		Phone: 303-512-4272 FAX: 303-757-9886	Revised:	Designer: / Structure Numbers	19339 (CN)
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900		Region 1 DK	Void:	Detailer: / Subset: / Subset Sheets: of	Sheet Number 7

WB On Ramp



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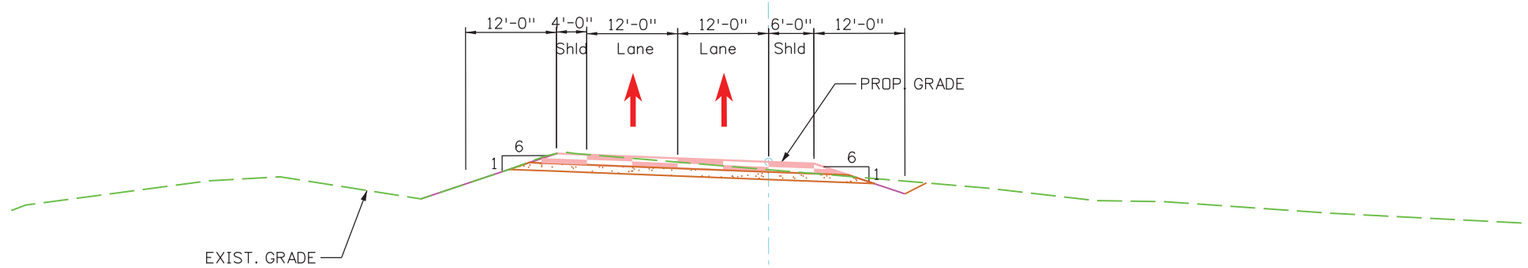

STA. 104+02.35 TO 106+41.11

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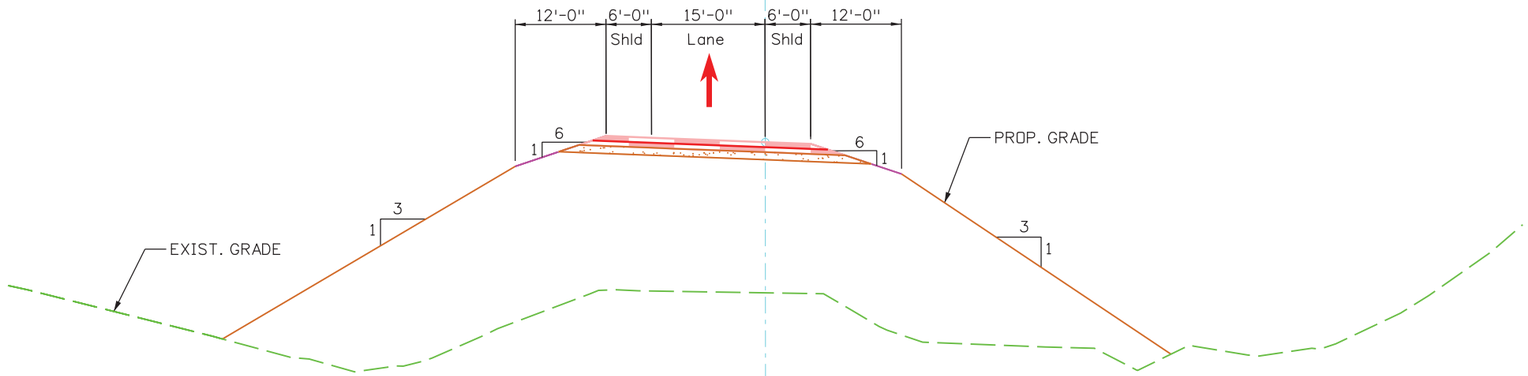
Horiz. Scale: 1:20 Vert. Scale:		Phone: 303-512-4272 FAX: 303-757-9886	Revised:	Designer: / Detailer:	Structure Numbers	19339 (CN)
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900		Region 1 DK	Void:	Subset:	Subset Sheets: of	Sheet Number 8

EB On Ramp



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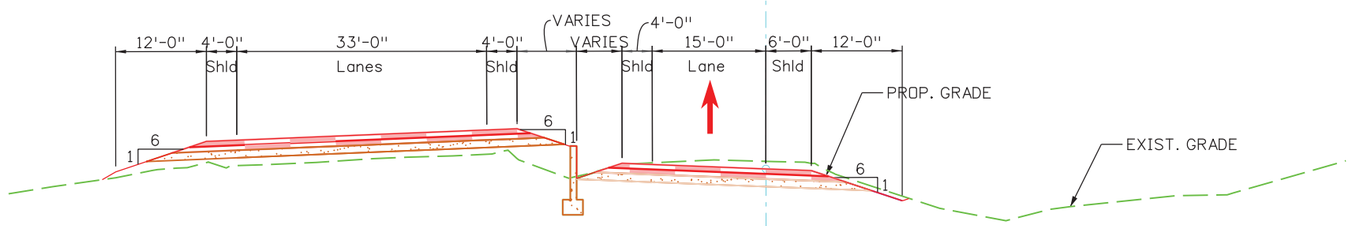

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Horiz. Scale: 1:20 Vert. Scale:

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
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DEPARTMENT OF TRANSPORTATION
2000 S. Holly St.
Denver, CO 80222
Phone: 303-512-4272 FAX: 303-757-9886
Region 1 DK

As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
TYPICAL SECTION 6

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 9

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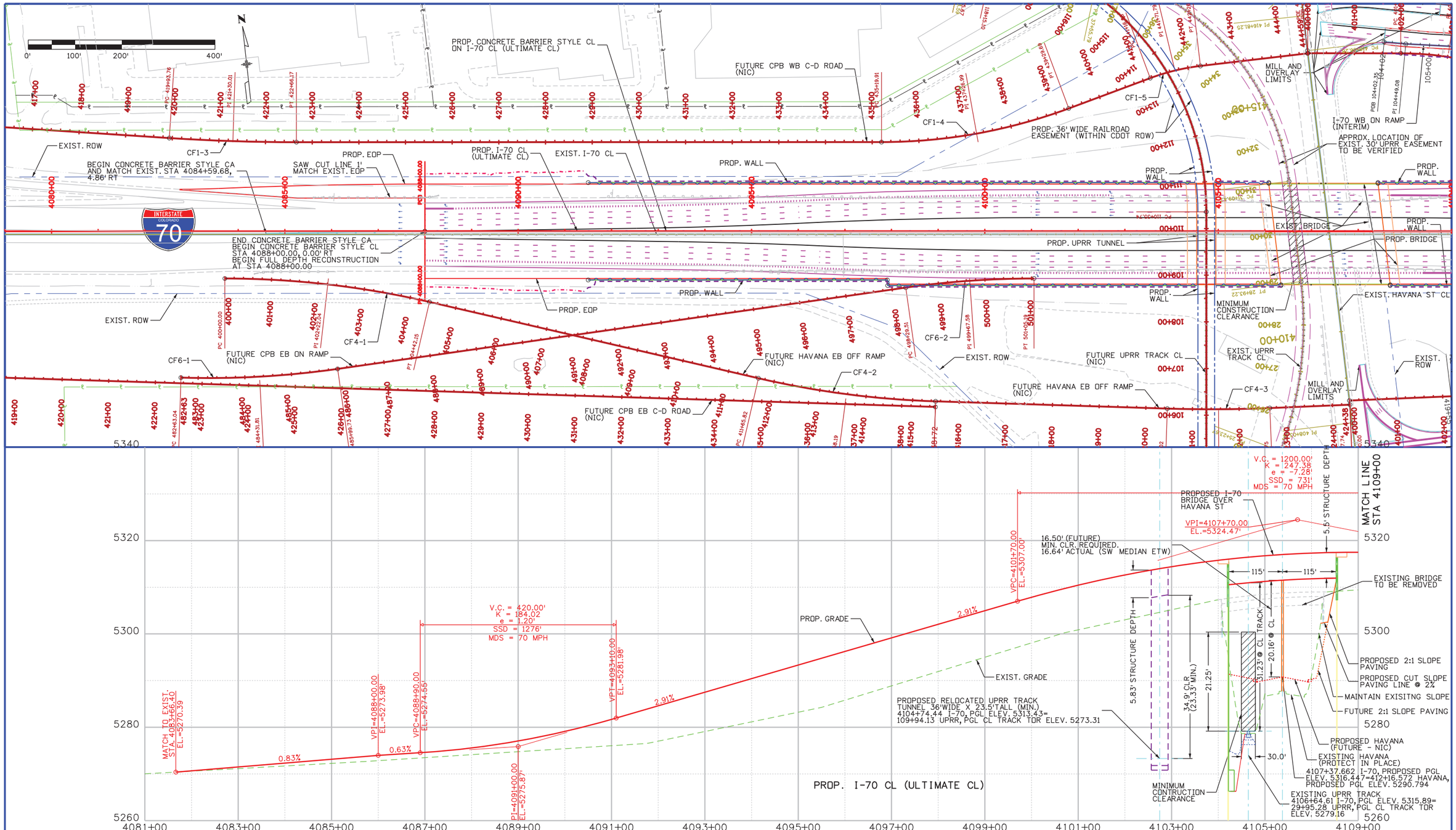

Print Date: 8/8/2013	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 19339_DES_Plan and Profile 1.dgn	Date: / Comments / Init.	2000 S. Holly St. Denver, CO 80222 Phone: 303-512-4272 FAX: 303-757-9886	No Revisions:
Horiz. Scale: 1:200.005 Vert. Scale:		Region 1 DK	Revised:
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900			Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
I-70 PLAN AND PROFILE 1

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 10

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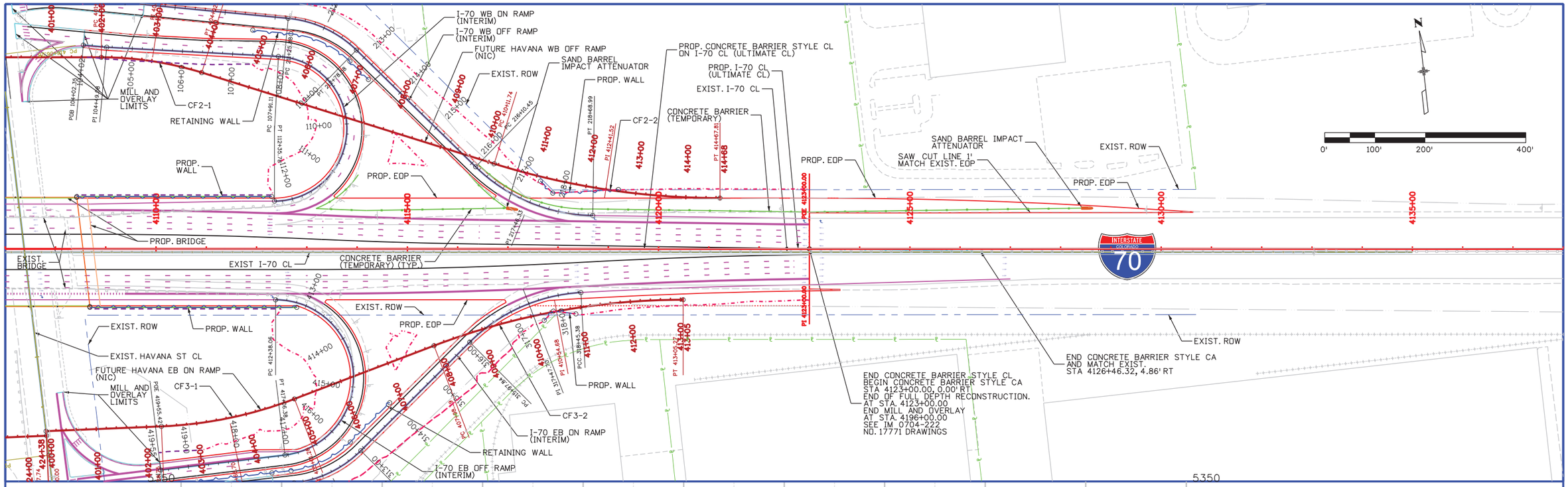

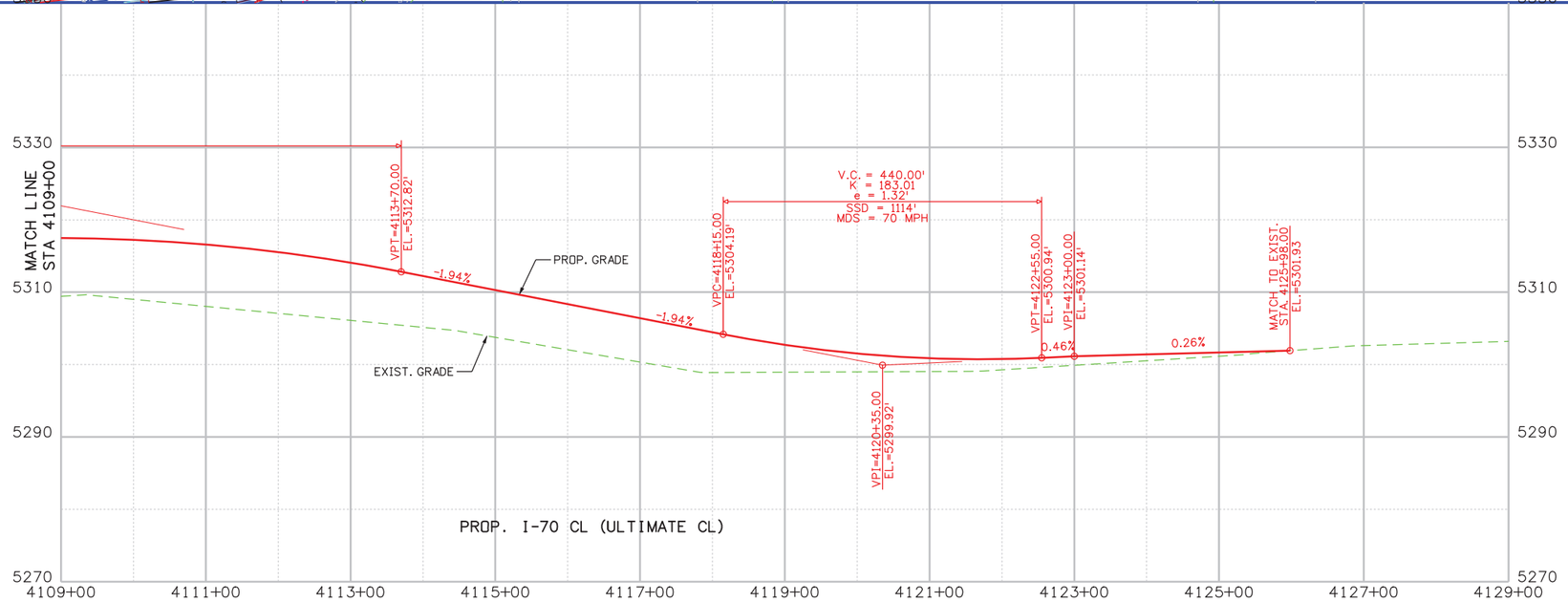

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File Name: 19339_DES_Plan and Profile 2.dgn	Date: / Comments / Init.	2000 S. Holly St. Denver, CO 80222 Phone: 303-512-4272 FAX: 303-757-9886	No Revisions:		FBR 0704-230
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PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900		Region 1 DK	Void:	Detailer: / Subset: / Subset Sheets: of	Sheet Number 11

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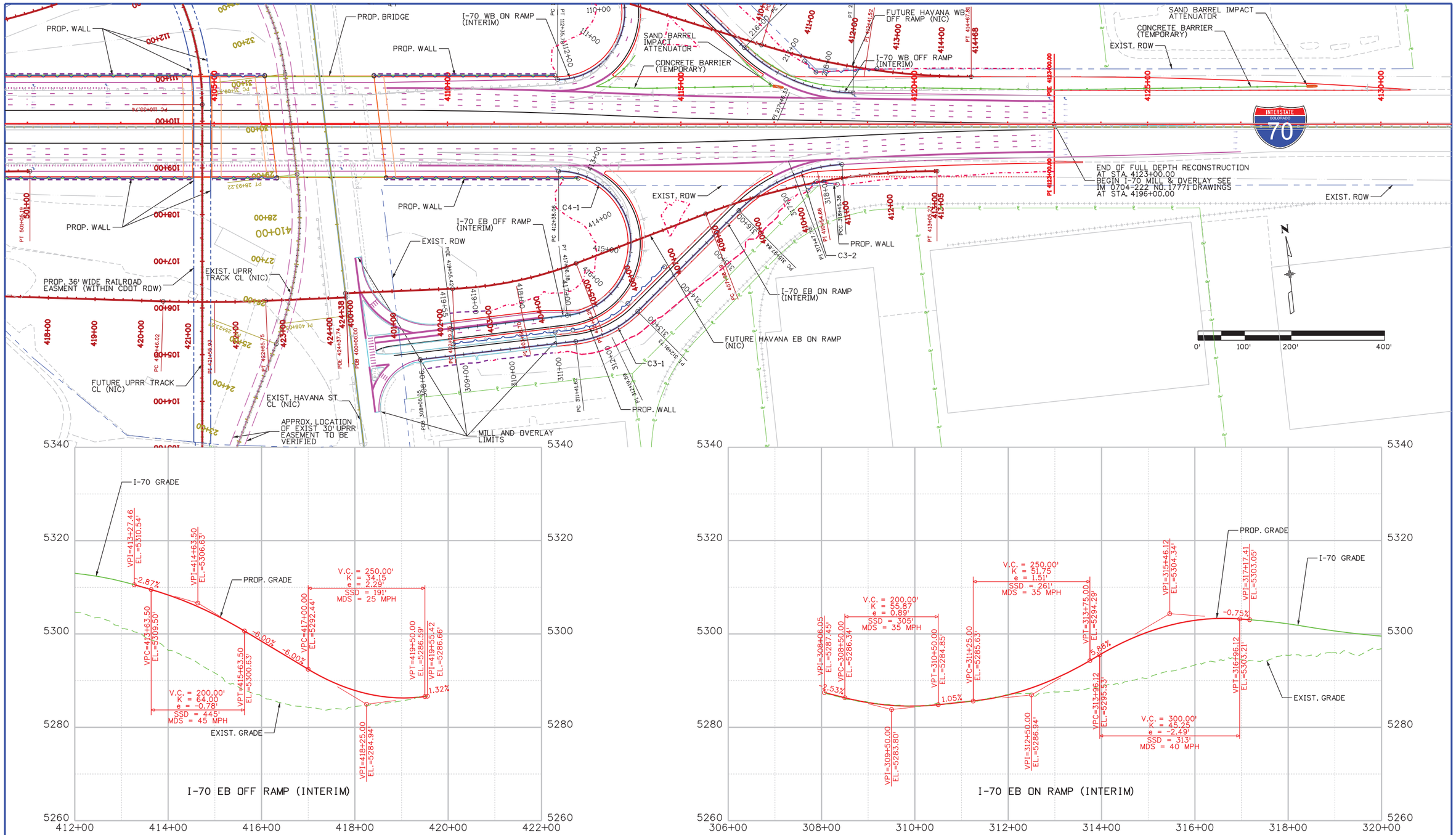

Print Date: 8/7/2013	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 19339_DES_Plan and Profile 3.dgn	Date: / Comments / Init.	2000 S. Holly St. Denver, CO 80222	No Revisions:
Horiz. Scale: 1:200.012 Vert. Scale:		Phone: 303-512-4272 FAX: 303-757-9886	Revised:
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900		Region 1 DK	Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
EB RAMPS PLAN AND PROFILE

Designer: | Structure Numbers
Detailer:
Subset: | Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 12

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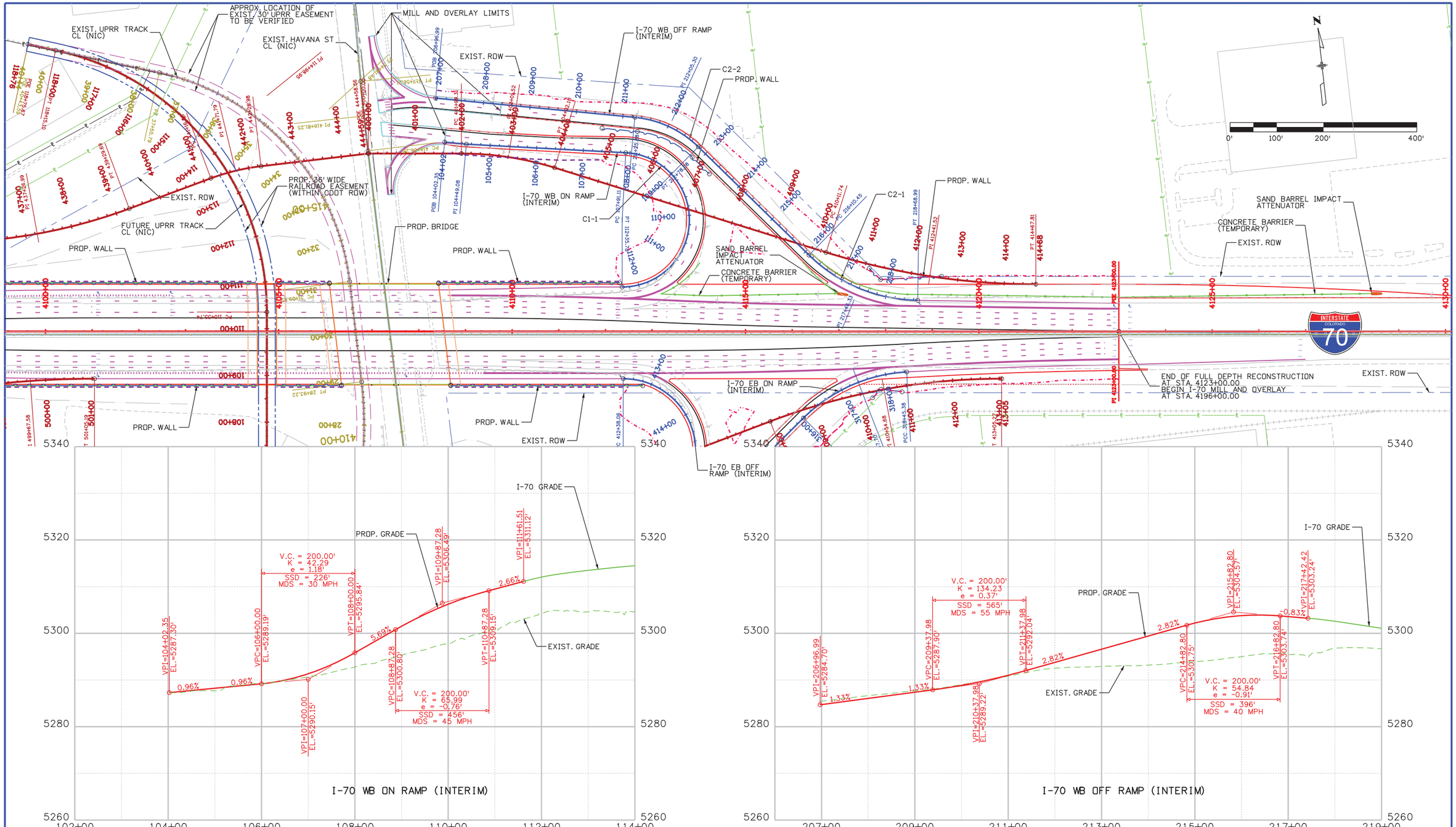

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Horiz. Scale: 1:200.005 Vert. Scale:		Region 1 DK	Revised:
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900			Void:

I-70 OVER HAVANA STREET DESIGN BUILD WB RAMPS PLAN AND PROFILE

Designer: | Structure Numbers | Detailer: | Subset: | Subset Sheets: of

Project No./Code: FBR 0704-230

19339 (CN)

Sheet Number 13

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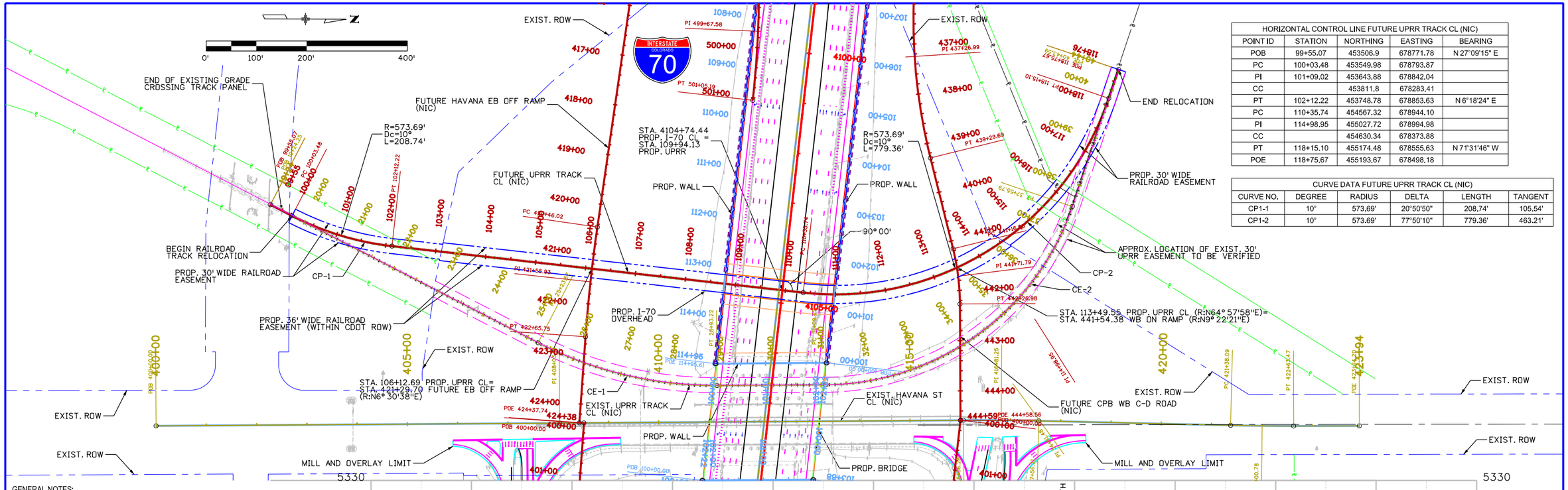
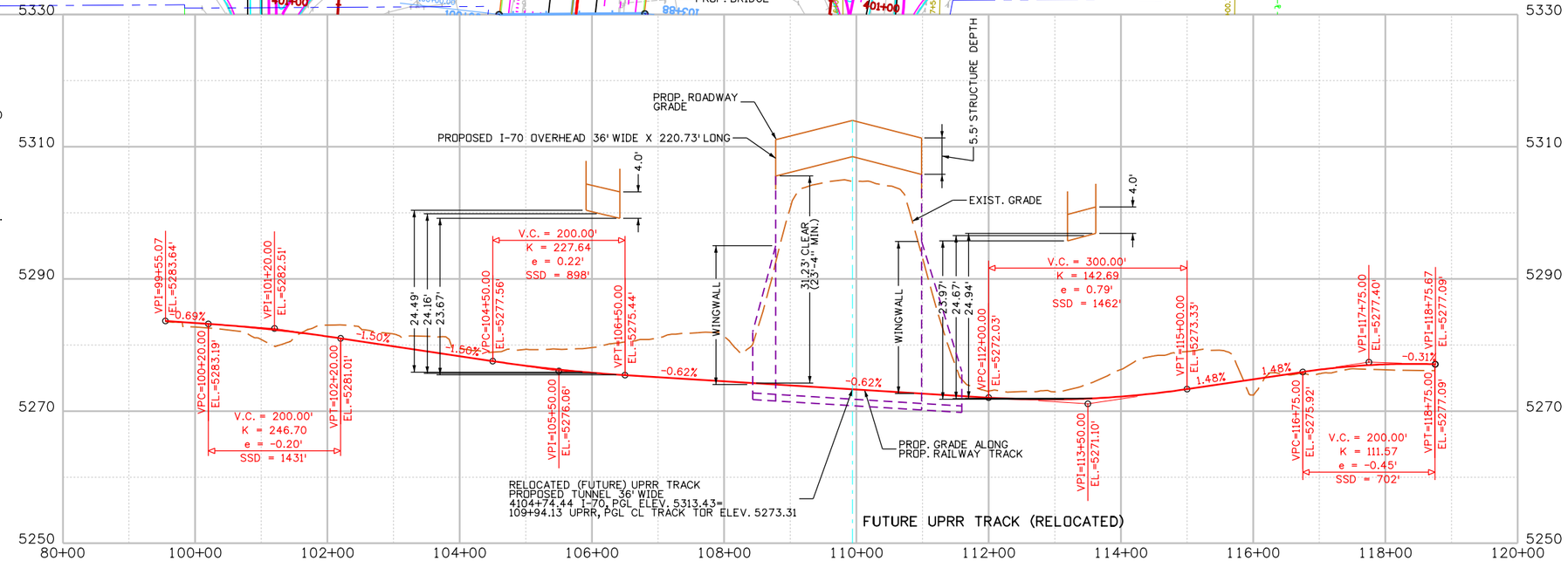


HORIZONTAL CONTROL LINE FUTURE UPRR TRACK CL (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	99+55.07	453506.9	678771.78	N 27°09'15" E
PC	100+03.48	453549.98	678793.87	
PI	101+09.02	453643.88	678842.04	
CC		453811.8	678283.41	
PT	102+12.22	453748.78	678853.63	N 6°18'24" E
PC	110+35.74	454567.32	678944.10	
PI	114+98.95	455027.72	678994.98	
CC		454630.34	678373.88	
PT	118+15.10	455174.48	678555.63	N 71°31'46" W
POE	118+75.67	455193.67	678498.18	

CURVE DATA FUTURE UPRR TRACK CL (NIC)					
CURVE NO.	DEGREE	RADIUS	DELTA	LENGTH	TANGENT
CP1-1	10°	573.69'	20°50'50"	208.74'	105.54'
CP1-2	10°	573.69'	77°50'10"	779.36'	463.21'

GENERAL NOTES:

1. THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT INCREASE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S DITCHES AND/OR DRAINAGE STRUCTURES.
2. THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
4. ALL SHORING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.
5. ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY AND/OR DEMOLITION THAT MAY IMPACT THE RAILROAD'S TRACKS OR OPERATIONS SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES.
6. ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO THE RAILROAD'S OPERATION, ENABLING THE TRACK(S) TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S REQUIREMENTS.
7. RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT.
8. FALSE-WORK CLEARANCES SHALL COMPLY WITH MINIMUM CONSTRUCTION CLEARANCES.
9. ALL PERMANENT CLEARANCES SHALL BE VERIFIED BEFORE PROJECT CLOSING.
10. ROADWAY / OVERHEAD STRUCTURE BARRIER WITHIN RAILROAD RIGHT-OF-WAY SHALL BE CLOSED TYPE. DRAINAGE SHALL NOT FALL ON NOR BE DIRECTED TOWARD THE RAILROAD RIGHT-OF-WAY.



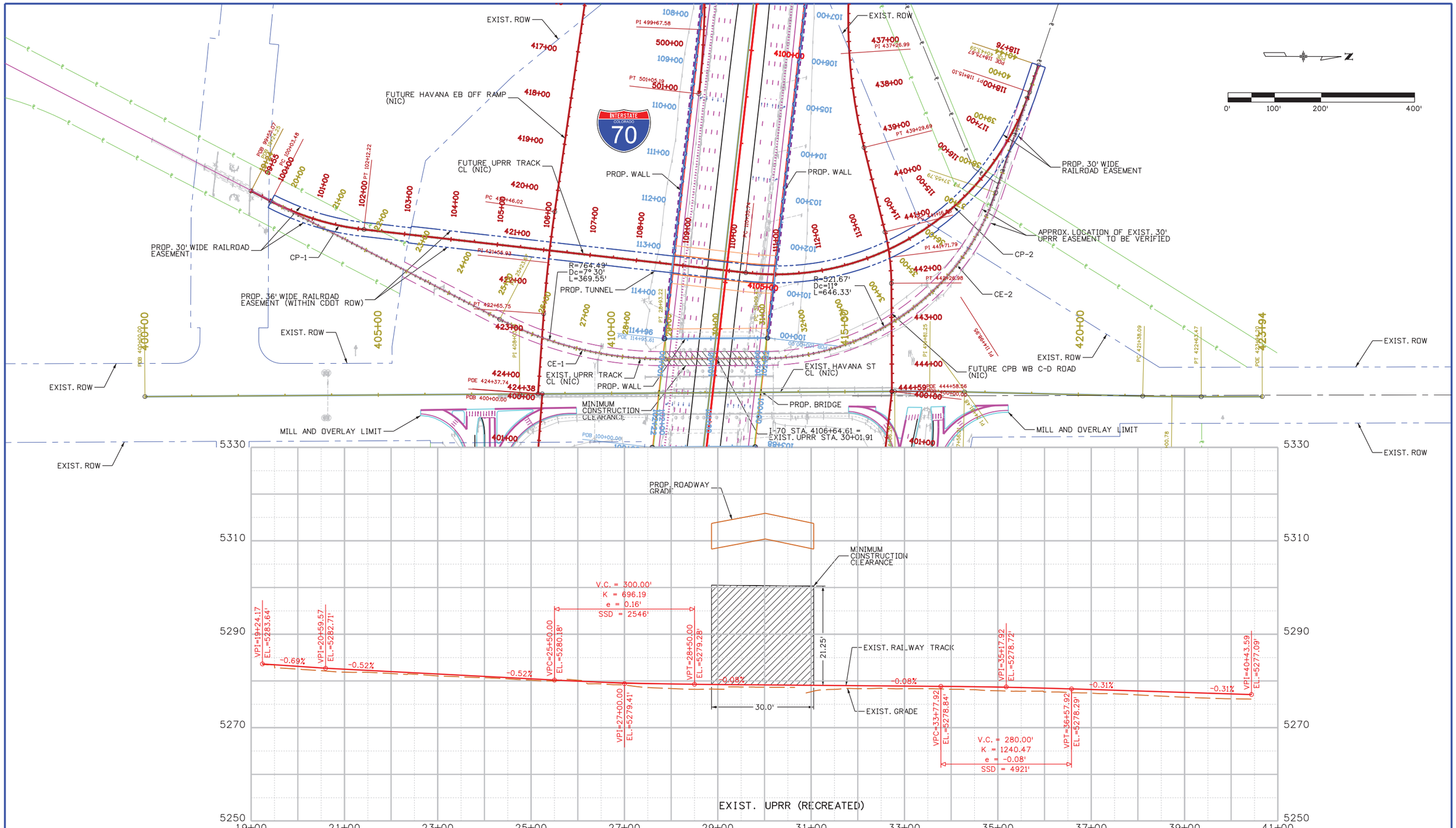
Print Date: 8/14/2013	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 19339_DES_Plan and Profile 5.dgn	Date: / Comments / Init.	2000 S. Holly St. Denver, CO 80222 Phone: 303-512-4272 FAX: 303-757-9886	No Revisions:
Horiz. Scale: 1:200 Vert. Scale:		Region 1 DK	Revised:
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900			Void:

I-70 OVER HAVANA STREET DESIGN BUILD
FUTURE UPRR TRACK PLAN&PROFILE

Designer: | Structure Numbers | Detailer: | Subset: | Subset Sheets: of

Project No./Code: FBR 0704-230
19339 (CN)
Sheet Number 14

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg



Print Date: 8/8/2013	Sheet Revisions	Colorado Department of Transportation	As Constructed	I-70 OVER HAVANA STREET DESIGN BUILD EXIST. UPRR PLAN AND PROFILE	Project No./Code
File Name: 19339_DES_Plan and Profile 6.dgn	Date: / Comments / Init.	2000 S. Holly St. Denver, CO 80222 Phone: 303-512-4272 FAX: 303-757-9886	No Revisions:		FBR 0704-230
Horiz. Scale: 1:200 Vert. Scale:		Region 1 DK	Revised:	Designer: / Structure Numbers	19339 (CN)
PARSONS 1776 Lincoln Suite 600 Denver, CO 80203 (303) 863-7900			Void:	Detailer: / Subset: / Subset Sheets: of	Sheet Number 15

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

HORIZONTAL CONTROL LINE PROPOSED I-70 CL				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	4088+00.00	454709.9	677275.21	S 83°41'36" E
POE	4123+00.00	454325.42	680754.03	

VERTICAL CONTROL LINE PROPOSED I-70 CL							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	4088+00.00	5273.98					
PVC	4088+90.00	5274.55					
PVI	4091+00.00	5275.87	420'	0.63%	2.91%	184.02	70
PVT	4093+10.00	5281.98					
PVC	4101+70.00	5307.00					
PVI	4107+70.00	5324.47	1200'	2.91%	-1.94%	247.38	70
PVT	4113+70.00	5312.82					
PVC	4118+15.00	5304.19					
PVI	4120+35.00	5299.92	440'	-1.94%	0.46%	183.01	70
PVT	4122+55.00	5300.94					
POE	4123+00.00	5301.14					

HORIZONTAL CONTROL LINE I-70 EB OFF RAMP (INTERIM)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	401+00.00	454466.54	678556.23	S 83°41'36" E
PC	412+38.06	454341.52	679687.40	
PI	438+14.68	454058.48	682248.43	
CC		454187.46	679670.38	
PT	417+06.38	454032.47	679671.94	S 89°25'18" W
POE	419+55.42	454029.96	679422.92	

VERTICAL CONTROL LINE I-70 EB OFF RAMP (INTERIM)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	413+27.46	5310.54					
PVC	413+63.50	5309.5					
PVI	414+63.50	5306.63	200'	-2.87%	-6.00%	64	45
PVT	415+63.50	5300.63					
PVC	417+00.00	5292.44					
PVI	418+25.00	5284.94	250'	-6.00%	1.32%	34.15	25
PVT	419+50.00	5286.59					
POE	419+55.42	5286.66					

CURVE DATA I-70 EB OFF RAMP (INTERIM)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
C4-1	155'	173°06'54"	468.32'	2576.62'

HORIZONTAL CONTROL LINE I-70 EB ON RAMP (INTERIM)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	308+06.05	453972.99	679348.33	N 89°37'39" E
PC	311+41.62	453975.17	679683.89	
PI	312+19.59	453975.68	679761.85	
CC		454200.17	679682.42	
PT	312+91.73	454024.32	679822.79	N 51°24'08" E
PC	315+97.84	454215.29	680062.03	
PI	317+27.38	454296.11	680163.28	
CC		453949.57	680274.14	
PCC	318+45.38	454289.06	680292.63	

VERTICAL CONTROL LINE I-70 EB ON RAMP (INTERIM)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	308+06.05	5287.45					
PVC	308+50.00	5286.34					
PVI	309+50.00	5283.8	200'	-2.53%	1.05%	55.87	35
PVT	310+50.00	5284.85					
PVC	311+25.00	5285.63					
PVI	312+50.00	5286.94	250'	1.05%	5.88%	51.75	35
PVT	313+75.00	5294.29					
PVC	313+96.12	5295.53					
PVI	315+46.12	5304.34	300'	5.88%	-0.75%	45.25	40
PVT	316+96.12	5303.21					
PVI	317+17.41	5303.05					

CURVE DATA I-70 EB ON RAMP (INTERIM)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
C3-1	225'	38°13'31"	150.11'	77.97'
C3-2	340'	41°42'51"	247.54'	129.54'

HORIZONTAL CONTROL LINE I-70 WB OFF RAMP (INTERIM)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	206+96.99	454983.10	679353.93	S 78°11'25" E
PC	211+25.88	454895.32	679773.75	
PI	212+05.30	454879.07	679851.48	
CC		454675.08	679727.70	
PT	212+78.58	454817.62	679901.79	S 39°18'24" E
PC	216+10.45	454560.82	680112.03	
PI	217+46.33	454455.68	680198.10	
CC		454776.20	680375.11	
PT	218+68.99	454438.83	680332.93	S 82°52'29" E
POE	223+00.04	454385.36	680760.66	

VERTICAL CONTROL LINE I-70 WB OFF RAMP (INTERIM)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	206+96.99	5284.70					
PVC	209+37.98	5287.90					
PVI	210+37.98	5289.22	200'	1.33%	2.82%	134.23	55
PVT	211+37.98	5292.04					
PVC	214+82.80	5301.75					
PVI	215+82.80	5304.57	200'	2.82%	-0.83%	54.84	40
PVT	216+82.80	5303.74					
POE	217+42.42	5303.24					

CURVE DATA I-70 WB OFF RAMP (INTERIM)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
C2-1	225'	38°53'01"	152.7'	79.42'
C2-2	340'	43°34'05"	258.54'	135.88'

HORIZONTAL CONTROL LINE I-70 WB ON RAMP (INTERIM)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	104+02.35	454887.33	679362.77	S 78°18'13" E
PI	104+49.08	454877.85	679408.53	
PC	107+91.11	454822.12	679745.99	
PI	161+63.34	453946.77	685046.43	
CC		454680.05	679722.52	
PT	112+35.78	454536.92	679706.71	N 83°41'36" W
PI	113+01.56	454544.15	679641.32	N 84°50'20" W
POE	116+01.62	454571.14	679342.48	

VERTICAL CONTROL LINE I-70 WB ON RAMP (INTERIM)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	104+02.35	5287.30					
PVC	106+00.00	5289.19					
PVI	107+00.00	5290.15	200'	0.96%	5.69%	42.29	30
PVT	108+00.00	5295.84					
PVC	108+87.28	5300.80					
PVI	109+87.28	5306.49	200'	5.69%	2.66%	65.99	45
PVT	110+87.28	5309.15					
POE	111+61.51	5311.12					

CURVE DATA I-70 WB ON RAMP (INTERIM)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
C1-1	144'	176°55'45"	444.67'	5372.23'

HORIZ. CONTROL LINE FUTURE HAVANA EB OFF RAMP (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
PC	400+00.00	454656.44	676838.06	
PI	402+22.04	454632.04	677058.76	
CC		452728.18	676624.95	
PT	404+42.15	454558.42	677268.23	S 70°38'05" E
PC	411+65.82	454318.46	677950.96	
PI	413+58.19	454254.67	678132.44	
CC		456160.02	678598.22	
PT	415+49.32	454227.54	678322.89	S 81°53'29" E
PC	420+46.02	454157.48	678814.62	
PI	421+55.93	454141.97	678923.44	
CC		457127.48	679237.78	
PT	422+65.75	454134.47	679033.10	S 86°05'16" E
POE	424+37.74	454122.74	679204.69	

VERTICAL CONTROL LINE FUTURE HAVANA EB OFF RAMP (NIC)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	400+00.00	5268.60					
PVC	404+80.00	5270.79					
PVI	405+80.00	5271.25	200'	0.46%	2.32%	107.28	50
PVT	406+80.00	5273.57					
PVC	419+90.00	5303.98					
PVI	420+90.00	5306.30	200'	2.32%	-4.56%	29.05	35
PVT	421+90.00	5301.74					
PVC	422+80.00	5297.63					
PVI	423+30.00	5295.35	100'	-4.56%	1.49%	16.51	15
PVT	423+80.00	5296.10					
POE	424+37.70	5296.96					

CURVE DATA FUTURE HAVANA EB OFF RAMP (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CF4-1	1940	13°03'30"	442.15	222.04
CF4-2	1952	11°15'23"	383.50	192.37
CF4-3	3000	4°11'47"	219.73	109.91

HORIZONTAL CONTROL LINE FUTURE HAVANA EB ON RAMP (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	400+00.00	454131.77	679204.61	S 86°05'16" E
PC	402+29.75	454116.09	679433.82	
PI	403+66.70	454106.75	679570.46	
CC		454955.13	679491.20	
PT	405+01.28	454141.24	679703.00	N 75°24'48" E
PC	407+98.39	454216.07	679990.53	
PI	410+54.68	454280.61	680238.56	
CC		452870.87	680340.60	
PT	413+05.27	454252.46	680493.29	

VERTICAL CONTROL LINE FUTURE HAVANA EB ON RAMP (NIC)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	400+00.00	5293.50					
PVC	402+25.00	5289.00					
PVI	403+75.00	5286.00	300	-2.00%	2.05%	74.15	40
PVT	405+25.00	5289.07					
PVC	409+05.00	5296.84					
PVI	410+30.00	5299.40	250	2.05%	-0.68%	91.64	55
PVT	411+55.00	5298.55					
POE	413+05.27	5297.52					

CURVE DATA FUTURE HAVANA EB ON RAMP (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CF3-1	841	18°29'57"	271.53	136.96
CF3-2	1390	20°53'37"	506.88	256.29

HORIZONTAL CONTROL LINE FUTURE CPB EB C-D ROAD (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	400+00.00	454637.11	674474.43	S 86°06'09" E
PC	415+78.43	454529.82	676049.21	
PI	417+07.11	454521.07	676177.60	
CC		451037.91	675811.31	
PT	418+35.68	454502.92	676304.99	S 81°53'29" E
POE	438+72.25	454215.66	678321.20	

VERTICAL CONTROL LINE FUTURE CPB EB C-D ROAD (NIC)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	400+00.00	5274.40					
PVC	403+75.00	5266.38					
PVI	405+00.00	5263.70	250	-2.14%	0.45%	96.68	50
PVT	406+25.00	5264.26					
PVC	429+30.00	5274.53					
PVI	430+80.00	5275.20	300	0.45%	2.38%	155.26	60
PVT	432+30.00	5278.77					
POE	438+72.25	5294.04					

CURVE DATA FUTURE CPB EB C-D ROAD (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CF5-1	3500	4°12'40"	257.25	128.68

HORIZONTAL CONTROL LINE FUTURE CPB EB ON RAMP (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
PC	482+63.04	454455.74	676721.23	
PI	484+31.81	454431.93	676888.32	
CC		456376.34	676994.87	
PT	485+99.73	454437.34	677057.00	N 88°09'53" E
PC	498+29.51	454476.72	678286.15	
PI	499+67.58	454481.14	678424.15	
CC		452537.71	678348.28	
PT	501+05.19	454465.97	678561.39	S 83°41'36" E
POE	512+38.06	454341.52	679687.40	

CURVE DATA FUTURE CPB EB ON RAMP (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CF6-1	1940	9°56'38"	336.69	168.77
CF6-2	1940	8°08'31"	275.68	138.07

HORIZONTAL CONTROL LINE FUTURE CPB WB C-D ROAD (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
PC	400+00.00	455376.60	674803.77	
PI	404+01.21	455323.99	675201.52	
CC		451212.87	674252.99	
PRC	408+00.00	455197.02	675582.11	
PI	409+42.77	455151.84	675717.54	
CC		457037.32	676196.04	
PT	410+85.02	455126.97	675858.13	S 79°58'09" E
PC	419+93.76	454968.69	676752.98	
PI	421+30.01	454944.96	676887.15	
CC		459095.62	677482.97	
PT	422+66.17	454929.99	677022.58	S 83°41'36" E
PC	435+19.91	454792.26	678268.73	
PI	437+26.99	454769.52	678474.55	
CC		455936.30	678395.17	
PT	439+29.69	454819.93	678675.40	N 75°54'30" E
PC	441+16.08	454865.31	678856.19	
PI	441+71.79	454878.88	678910.22	
CC		454414.31	678969.40	
PT	442+26.98	454879.29	678965.93	N 89°34'22" E
POE	444+58.56	454881.02	679197.51	

VERTICAL CONTROL LINE FUTURE CPB WB C-D ROAD (NIC)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	400+00.00	5269.06					
PVC	404+50.00	5274.01					
PVI	407+50.00	5277.31	600	1.10%	-2.00%	193.35	65
PVT	410+50.00	5271.31					
PVC	411+75.00	5268.80					
PVI	412+75.00	5266.80	200	-2.00%	0.21%	90.43	50
PVT	413+75.00	5267.01					
PVC	423+28.00	5269.00					
PVI	424+28.00	5269.21	200	0.21%	0.66%	441.27	>80
PVT	425+28.00	5269.87					
PVC	429+00.00	5272.34					
PVI	430+00.00	5273.00	200	0.66%	2.96%	86.97	45
PVT	431+00.00	5275.96					
PVC	439+10.00	5299.95					
PVI	440+50.00	5304.10	280	2.96%	-3.26%	44.99	40
PVT	441+90.00	5299.53					
PVC	443+45.00	5294.48					
PVI	443+75.00	5293.50	60	-3.26%	1.44%	12.77	15
PVT	444+05.00	5293.93					

CURVE DATA FUTURE CPB WB C-D ROAD (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CF1-1	4200	10°54'49"	800.00	401.21
CF1-2	1940	8°25'04"	285.02	142.77
CF1-3	4191	3°43'27"	272.41	136.25
CF1-4	1151	20°23'54"	409.78	207.08
CF1-5	465	13°39'52"	110.90	55.71

HORIZONTAL CONTROL LINE FUTURE HAVANA WB OFF RAMP (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	400+00.00	454881.06	679197.51	
PC	401+99.31	454859.14	679395.62	
PI	403+01.52	454847.89	679497.21	
CC		454191.21	679321.70	
PT	404+02.18	454806.95	679590.86	S 66°23'16" E
PC	410+11.74	454562.80	680149.39	
PI	412+41.52	454470.76	680359.93	
CC		455946.38	680754.20	
PT	414+67.81	454445.52	680588.33	

VERTICAL CONTROL LINE FUTURE HAVANA WB OFF RAMP (NIC)							
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K	MAX. DESIGN SPEED (MPH)
POB	400+00.00	5293.23					
PVC	401+40.00	5290.42					
PVI	402+90.00	5287.40	300	-2.01%	1.25%	91.94	45
PVT	404+40.00	5289.28					
PVC	411+00.00	5297.55					
PVI	412+00.00	5298.80	200	1.25%	-0.42%	119.69	55
PVT	413+00.00	5298.38					
POE	414+67.81	5297.68					

CURVE DATA FUTURE HAVANA WB OFF RAMP (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CF2-1	672	17°17'48"	202.87	102.21
CF2-2	1510	17°18'19"	456.07	229.79

HORIZONTAL CONTROL LINE FUTURE UPRR TRACK CL (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	99+55.07	453506.9	678771.78	N 27°09'15" E
PC	100+03.48	453549.98	678793.87	
PI	101+09.02	453643.88	678842.04	
CC		453811.8	678283.41	
PT	102+12.22	453748.78	678853.63	N 6°18'24" E
PC	110+35.74	454567.32	678944.10	
PI	114+98.95	455027.72	678994.98	
CC		454630.34	678373.88	
PT	118+15.10	455174.48	678555.63	N 71°31'46" W
POE	118+75.67	455193.67	678498.18	

VERTICAL CONTROL LINE FUTURE UPRR TRACK CL (NIC)						
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K
POB	99+55.07	5283.64				
PVC	100+20.00	5283.19				
PVI	101+20.00	5282.51	200'	-0.69%	-1.50%	246.7
PVT	102+20.00	5281.01				
PVC	104+50.00	5277.56				
PVI	105+50.00	5276.06	200'	-1.50%	-0.62%	227.64
PVT	106+50.00	5275.44				
PVC	112+00.00	5272.03				
PVI	113+50.00	5271.10	300'	-0.62%	1.48%	142.69
PVT	115+00.00	5273.33				
PVC	116+75.00	5275.92				
PVI	117+75.00	5277.40	200'	1.48%	-0.31%	111.57
PVT	118+75.00	5277.09				
POE	118+75.67	5277.09				

CURVE DATA FUTURE UPRR TRACK CL (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CP1-1	573.69'	20°50'50"	208.74'	105.54'
CP1-2	573.69'	77°50'10"	779.36'	463.21'

SEE SITE PLAN WEST OF HAVANA ST.

HORIZONTAL CONTROL LINE EXIST. UPRR TRACK CL (NIC)				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	19+24.25	453506.90	678,771.78	
PC	25+23.67	454040.26	679,045.34	
PI	27+12.13	454207.95	679,131.35	
CC		454389.16	678,365.12	
PT	28+93.22	454396.40	679,129.57	N 0°32'32" W
PC	31+09.47	454612.63	679,127.52	
PI	34+81.48	454984.63	679,124.00	
CC		454607.69	678,605.88	
PT	37+55.79	455102.49	678,771.15	N 71°31'46" W
POE	40+43.59	455193.67	678,498.18	

VERTICAL CONTROL LINE EXIST. UPRR TRACK CL (NIC)						
POINT ID	STATION	ELEVATION	LENGTH	ENTRANCE GRADE	EXIT GRADE	K
POB	19+24.17	5283.64				
PVI	20+59.57	5282.71				
PVC	25+50.00	5280.18				
PVI	27+00.00	5279.41	300	-0.52%	-0.08%	696.19
PVT	28+50.00	5279.28				
PVC	33+77.92	5278.84				
PVI	35+17.92	5278.72	280	-0.08%	-0.31%	1240.47
PVT	36+57.92	5278.29				
POE	40+43.59	5277.09				

CURVE DATA EXIST. UPRR TRACK CL (NIC)				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CE-1	764.49	27°41'47"	369.55	188.46
CE-2	521.67	70°59'13"	646.33	372.01

SEE SITE PLAN WEST OF HAVANA ST.

User: p0046294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 8/8/2013
File Name: 19339_DES_Geometric Data-2.dgn
Horiz. Scale: 1:100 Vert. Scale:

PARSONS
1776 Lincoln Suite 600
Denver, CO 80203
(303) 863-7900

Sheet Revisions

Date:	Comments	Init.

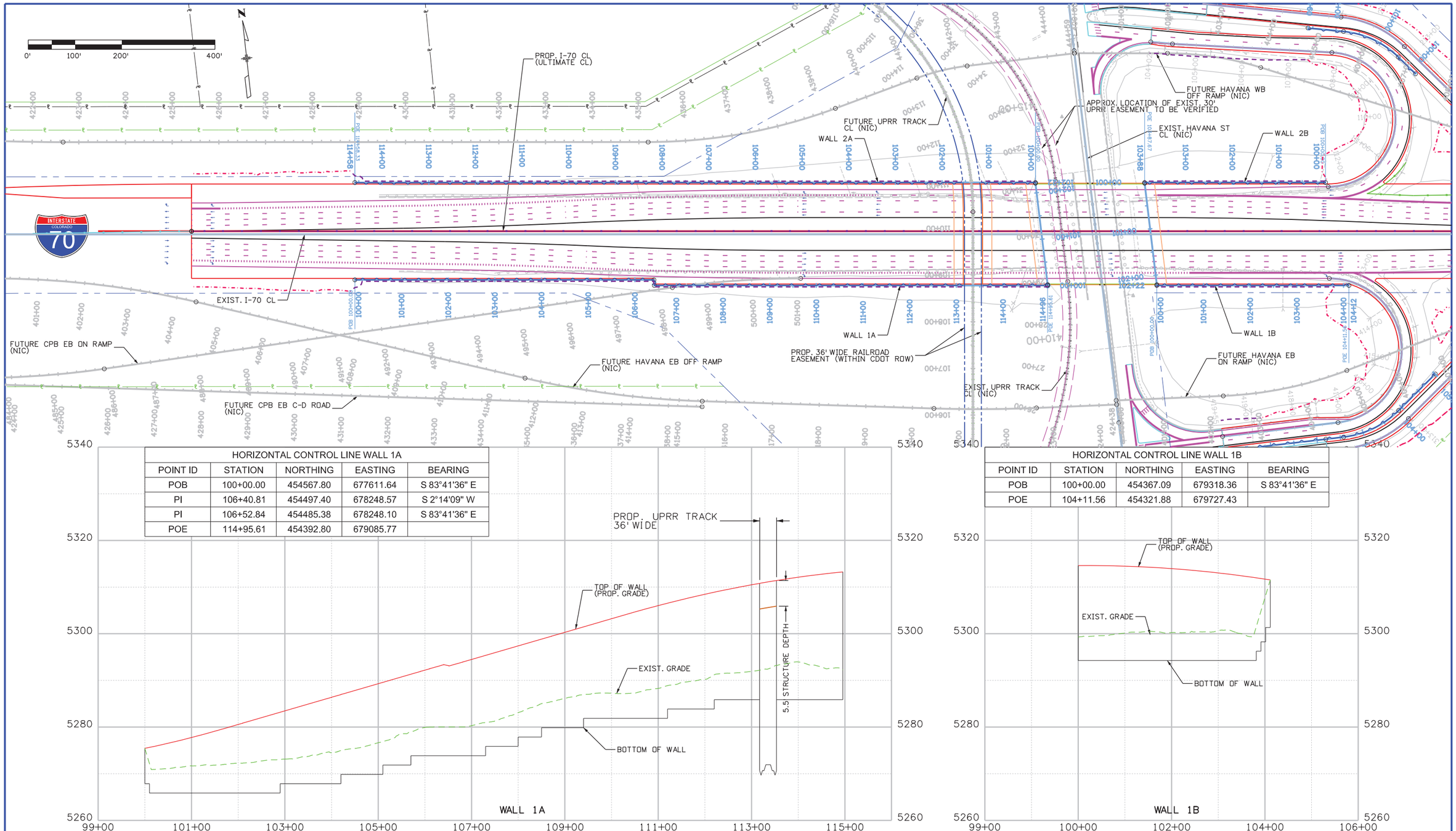
Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 S. Holly St.
Denver, CO 80222
Phone: 303-512-4272 FAX: 303-757-9886
Region 1 DK

As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
GEOMETRIC DATA-2

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 17



HORIZONTAL CONTROL LINE WALL 1A				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	454567.80	677611.64	S 83°41'36" E
PI	106+40.81	454497.40	678248.57	S 2°14'09" W
PI	106+52.84	454485.38	678248.10	S 83°41'36" E
POE	114+95.61	454392.80	679085.77	

HORIZONTAL CONTROL LINE WALL 1B				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	454367.09	679318.36	S 83°41'36" E
POE	104+11.56	454321.88	679727.43	

Print Date: 8/7/2013
File Name: 19339_DES_Wall Plan and Profile 1.dgn
Horiz. Scale: 1:200.012 Vert. Scale:

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1776 Lincoln Suite 600
Denver, CO 80203
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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DOT DEPARTMENT OF TRANSPORTATION
2000 S. Holly St.
Denver, CO 80222
Phone: 303-512-4272 FAX: 303-757-9886
Region 1 DK

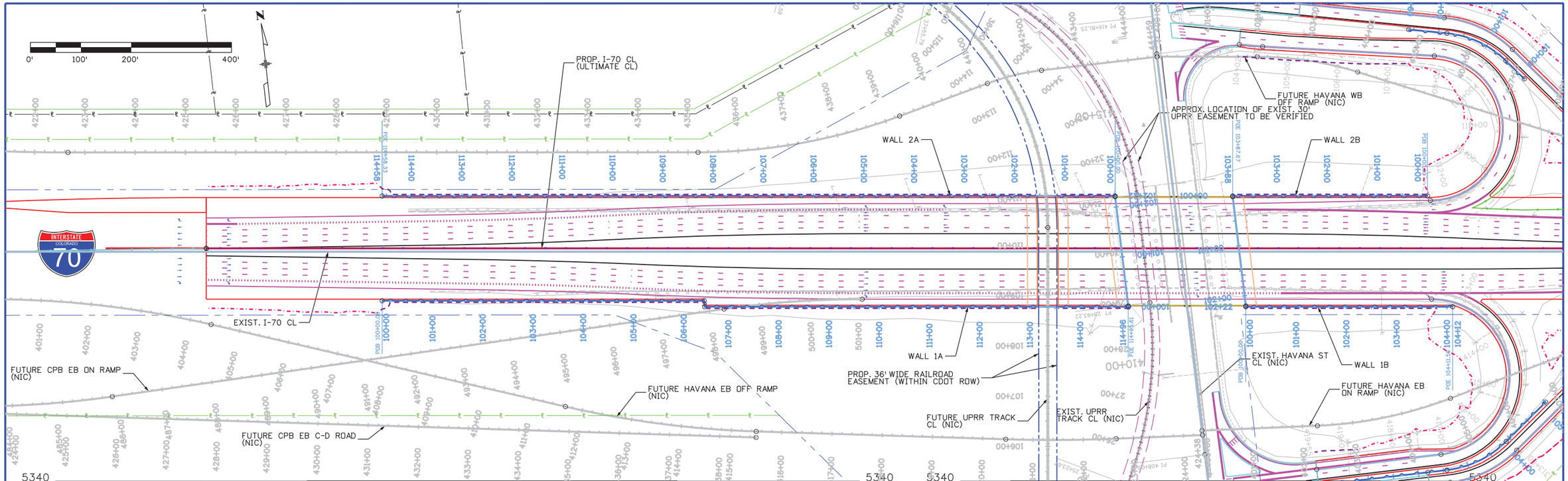
As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
WALL PLAN AND PROFILE 1

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 18

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg



HORIZONTAL CONTROL LINE WALL 2A				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	454614.92	679084.06	N 83°41'36" W
POE	114+58.33	454775.12	677634.55	

HORIZONTAL CONTROL LINE WALL 2B				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	454546.62	679701.96	N 83°41'36" W
POE	103+87.67	454589.21	679316.64	

Print Date: 8/7/2013
File Name: 19339_DES_Wall Plan and Profile 2.dgn
Horiz. Scale: 1:200.012 Vert. Scale:

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Sheet Revisions

Date:	Comments	Init.

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Region 1 DK

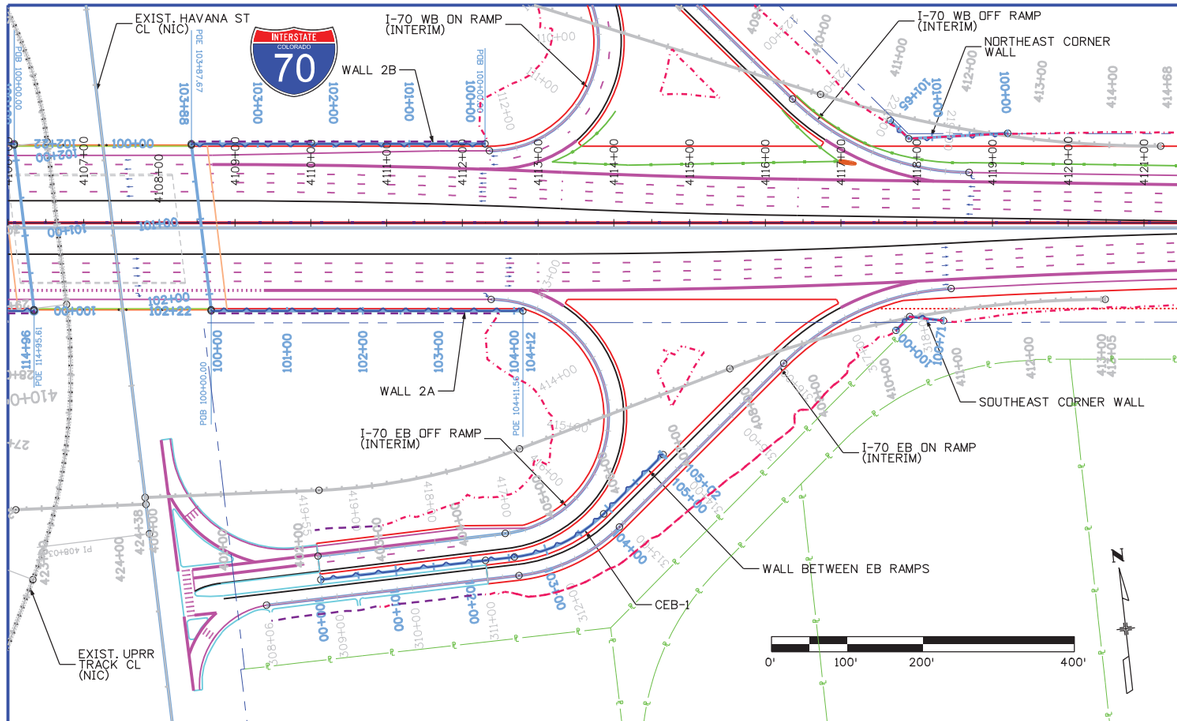
As Constructed
No Revisions:
Revised:
Void:

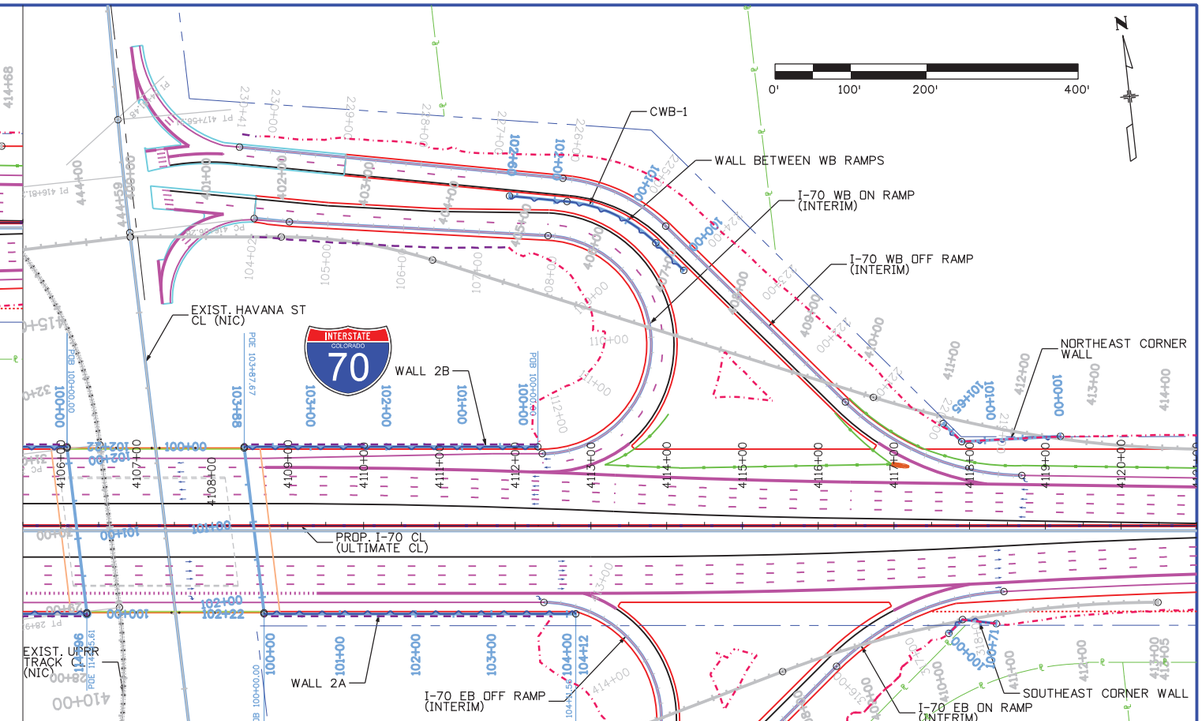
I-70 OVER HAVANA STREET
DESIGN BUILD
WALL PLAN AND PROFILE 2

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 19

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg





HORIZONTAL CONTROL WALL BETWEEN EB RAMPS				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	453998.48	679423.23	N 89°37'39" E
PI	102+18.88	453999.90	679642.11	
PC	102+57.27	454000.15	679680.49	
PI	103+26.57	454000.60	679749.80	
CC		454200.15	679679.19	
PT	103+90.70	454043.84	679803.96	N 51°24'08" E
POE	105+01.51	454112.97	679890.57	

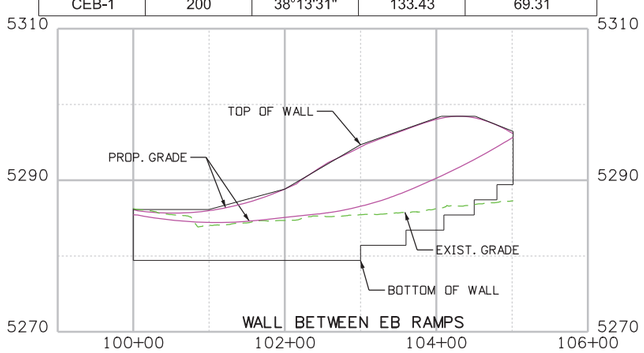
CURVE DATA WALL BETWEEN EB RAMPS				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CEB-1	200	38°13'31"	133.43	69.31

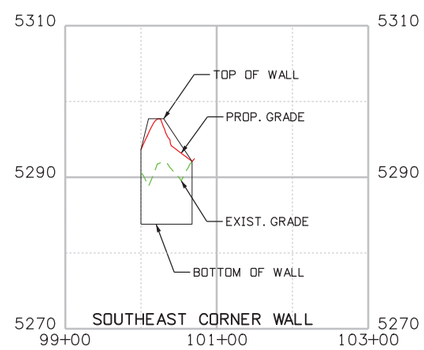
HORIZONTAL CONTROL SOUTHEAST CORNER WALL				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	454242.18	680214.17	N 51°17'39" E
PI	100+25.74	454258.27	680234.25	S 76°47'00" E
POE	100+70.65	454248.00	680277.98	

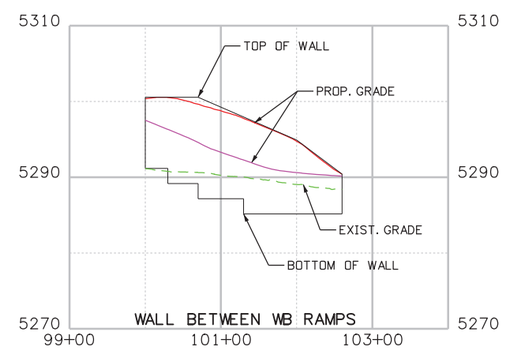
HORIZONTAL CONTROL WALL BETWEEN WB RAMPS				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	454756.97	679919.01	N 39°11'59" W
PC	100+51.62	454796.97	679886.38	
PI	101+20.30	454850.20	679842.97	
CC		454674.36	679736.04	
PT	101+83.64	454864.25	679775.74	N 78°11'30" W
POE	102+59.94	454879.87	679701.06	

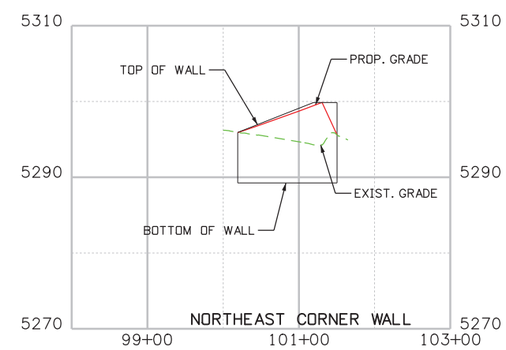
CURVE DATA WALL BETWEEN WB RAMPS				
CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT
CWB-1	194	38°59'31"	132.02	68.68

HORIZONTAL CONTROL NORTHEAST CORNER WALL				
POINT ID	STATION	NORTHING	EASTING	BEARING
POB	100+00.00	454484.66	680389.32	N 86°50'11" W
PI	101+30.70	454491.87	680258.82	N 39°15'54" W
POE	101+64.86	454518.32	680237.20	









Print Date: 8/2/2013
File Name: 19339_DES_Wall Plan and Profile 3.dgn
Horiz. Scale: 1:200.005 Vert. Scale:

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Sheet Revisions		
Date:	Comments	Init.

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2000 S. Holly St.
Denver, CO 80222
Phone: 303-512-4272 FAX: 303-757-9886
Region 1 DK

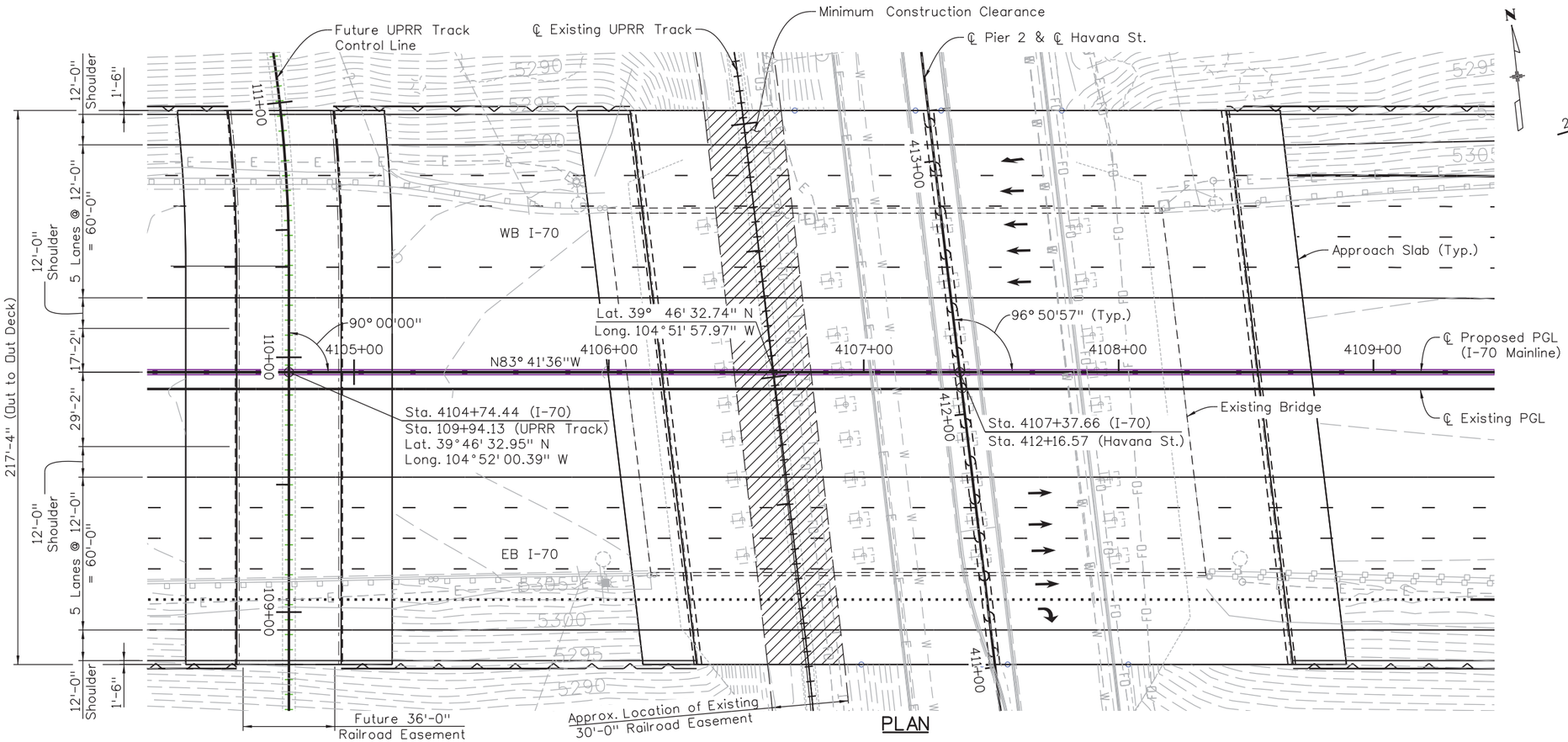
As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
WALL PLAN AND PROFILE 3

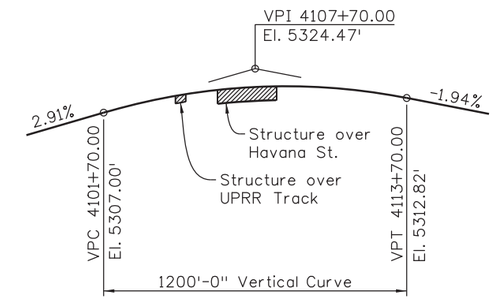
Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 20

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

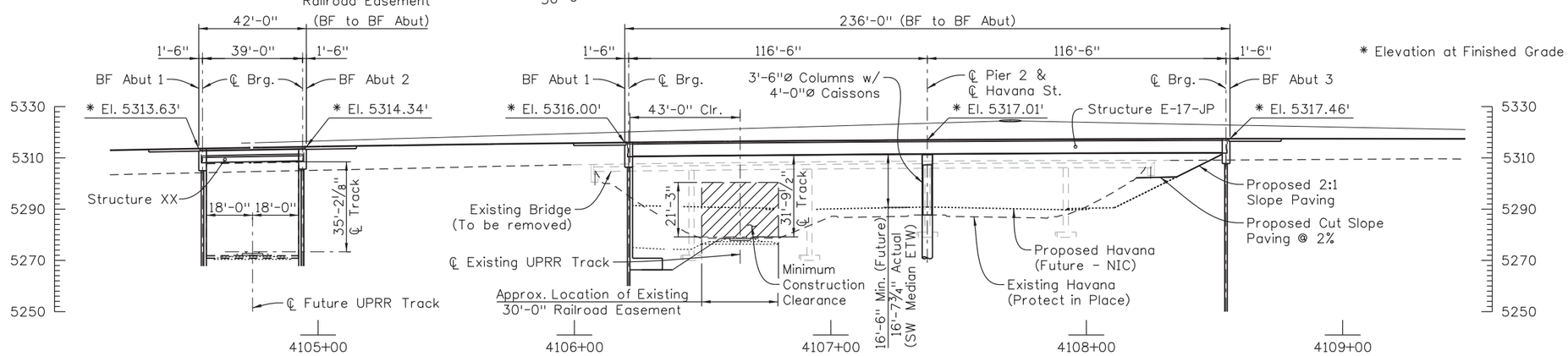


PLAN



PROFILE GRADE

(Proposed PGL)



* Elevation at Finished Grade

ELEVATION

Taken along I-70 Mainline Control Line

Quantities			
	INITIAL	DATE	
Quantities By	XXX	MM/YY	
Checked By	XXX	MM/YY	

Detail			
	INITIAL	DATE	
Detailed By	XXX	MM/YY	
Checked By	XXX	MM/YY	

Design			
	INITIAL	DATE	
Designed By	XXX	MM/YY	
Checked By	XXX	MM/YY	

Revision Dates	
	MM/YY

(Preliminary Stage Only)

User: p0097373 Date: 8/7/2013 Pen Table: CDOT-PenTable.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 8/7/2013			
File Name: GeneralLayout.dgn			
Horiz. Scale: 1:50	Vert. Scale: As Noted		
Unit Information	Unit Leader Initials		

R-X

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
4201 East Arkansas Avenue
Room 107
Denver, CO 80222
Phone: 303-512-4202 FAX: 303-757-9197
Staff Bridge Branch

As Constructed

No Revisions:

Revised:

Void:

GENERAL LAYOUT

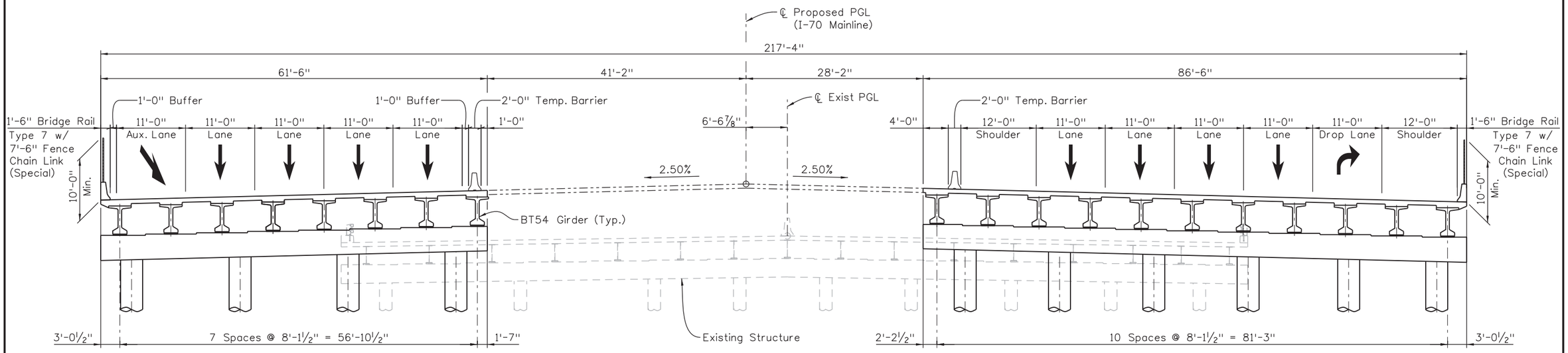
Designer:	J. BRAAKSMA	Structure Numbers	E-17-JP
Detailer:	K. KRUEGER		X-XX-XX
Sheet Subset:	XXXXXXX	Subset Sheets:	XXX of XXX

Project No./Code

Project Number

Code

Sheet Number 21

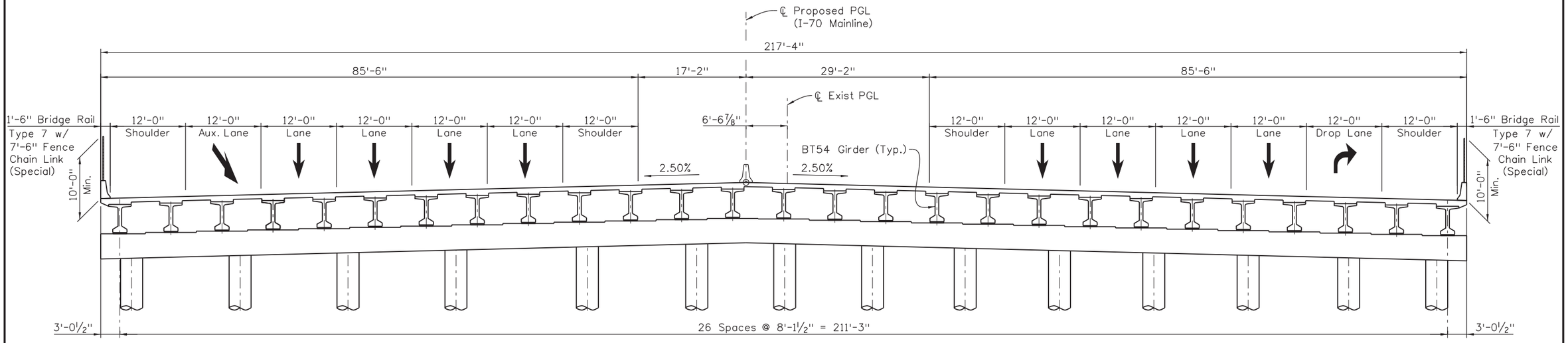


PHASE 2

PHASE 3

SECTION AT PIER

Looking Upstation



ULTIMATE SECTION AT PIER OVER HAVANA STREET

Looking Upstation

Design	INITIAL	DATE	Detail	INITIAL	DATE	Quantities	INITIAL	DATE
Designed By	XXX	MM/YY	Detailed By	XXX	MM/YY	Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY	Checked By	XXX	MM/YY	Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only) MM/YY

User: p0097373 Date: 8/7/2013 Pen Table: CDOT-PenTable.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 8/7/2013	
File Name: TypicalSection 1.dgn	
Horiz. Scale: 1:16	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

R-X

Sheet Revisions		
Date:	Comments	Init.

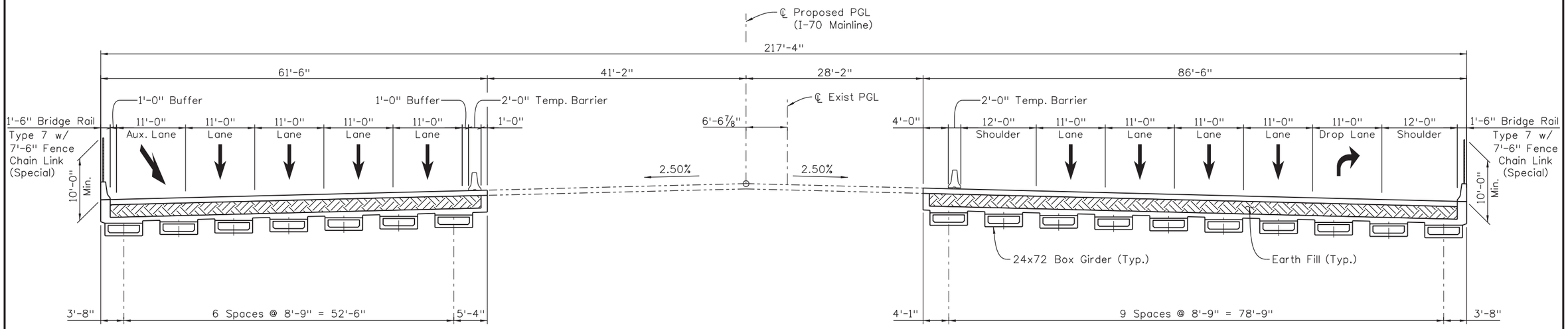
Colorado Department of Transportation
4201 East Arkansas Avenue
Room 107
Denver, CO 80222
Phone: 303-757-9193 FAX: 303-757-9197
Staff Bridge Branch

As Constructed
No Revisions:
Revised:
Void:

TYPICAL SECTION 1

Designer:	J. BRAAKSMA	Structure Numbers	E-17-JP
Detailer:	K. KRUEGER		X-XX-XX
Sheet Subset:	XXXXXXX	Subset Sheets:	XXX of XXX

Project No./Code
Project Number
Code
Sheet Number 22

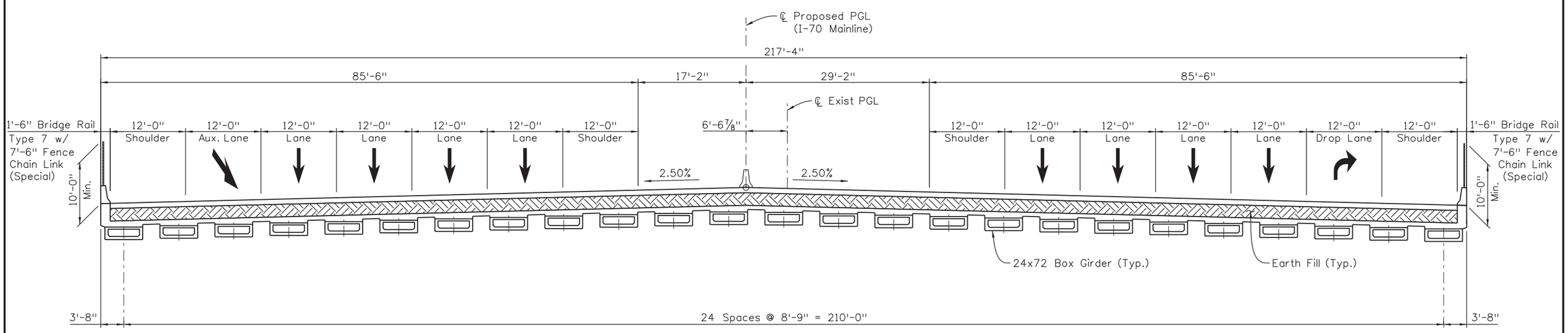


PHASE 2

PHASE 3

SECTION

Looking Upstation



ULTIMATE SECTION OVER UPRR TRACKS

Looking Upstation

Revision Dates	
MM/YY	(Preliminary Stage Only)

Quantities			
Quantities By	INITIAL	DATE	
Checked By	XXX	MM/YY	

Detail			
Detailed By	INITIAL	DATE	
Checked By	XXX	MM/YY	

Design			
Designed By	INITIAL	DATE	
Checked By	XXX	MM/YY	

User: p0097373 Date: 8/7/2013 Pen Table: CDOT-PenTable.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 8/7/2013
File Name: Typical Section 2.dgn
Horiz. Scale: 1:16 Vert. Scale: As Noted
Unit Information Unit Leader Initials

R-X

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
4201 East Arkansas Avenue
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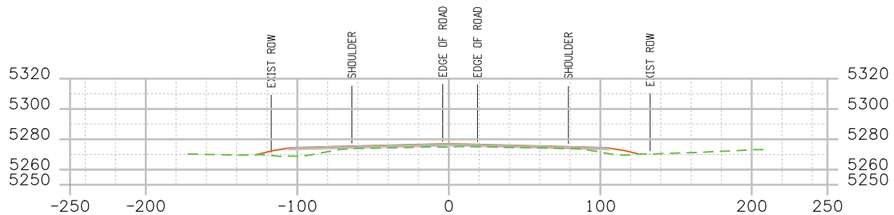
Phone: 303-757-9193 FAX: 303-757-9197
Staff Bridge Branch

As Constructed
No Revisions:
Revised:
Void:

TYPICAL SECTION 2

Designer:	J. BRAAKSMA	Structure Numbers	E-17-JP
Detailer:	K. KRUEGER		X-XX-XX
Sheet Subset:	XXXXXXX	Subset Sheets:	XXX of XXX

Project No./Code
Project Number
Code
Sheet Number 23



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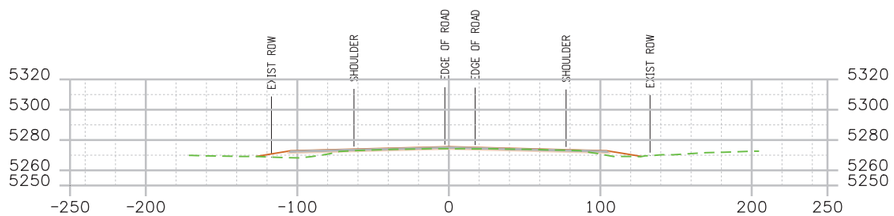

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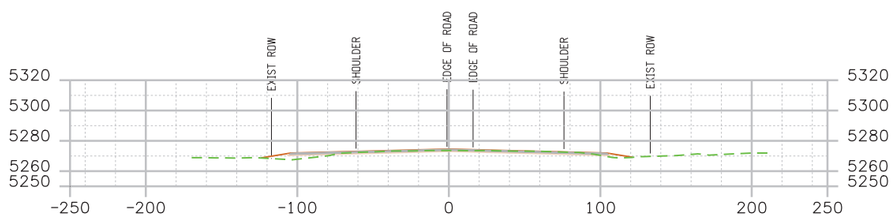

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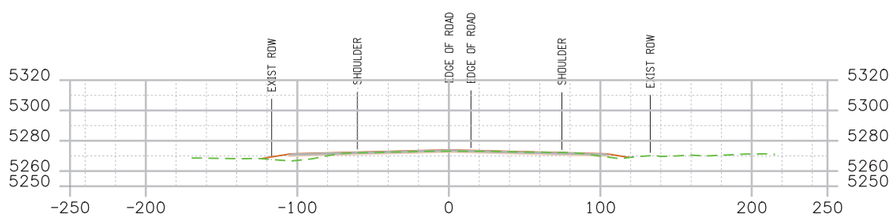

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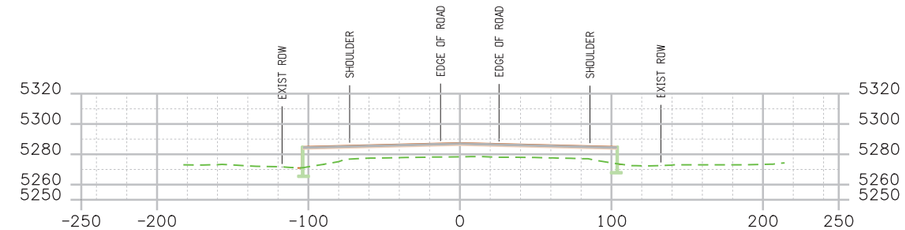

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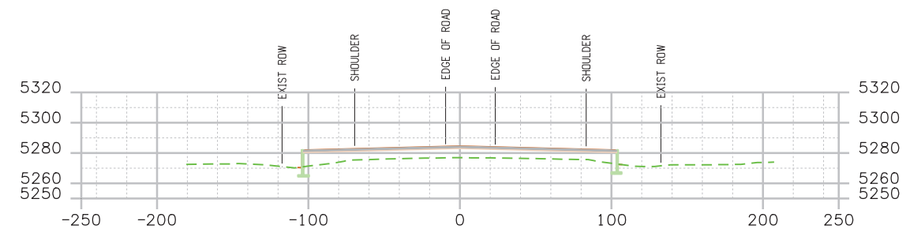

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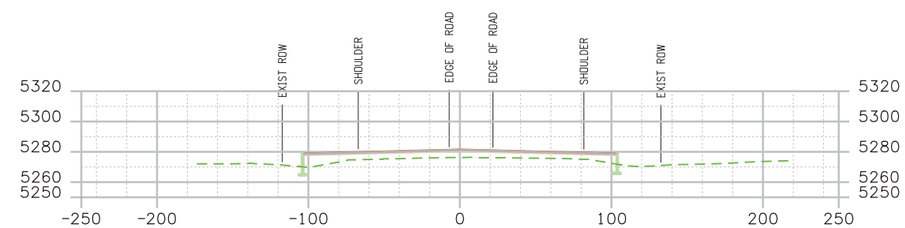

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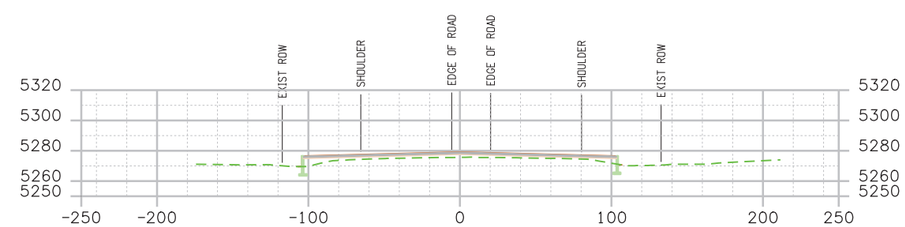

STA. 4092+00

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 8/5/2013
File Name: 19339_DES_Cross Sections 1.dgn
Horiz. Scale: 1:100 Vert. Scale:

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Sheet Revisions		
Date:	Comments	Init.

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2000 S. Holly St.
Denver, CO 80222
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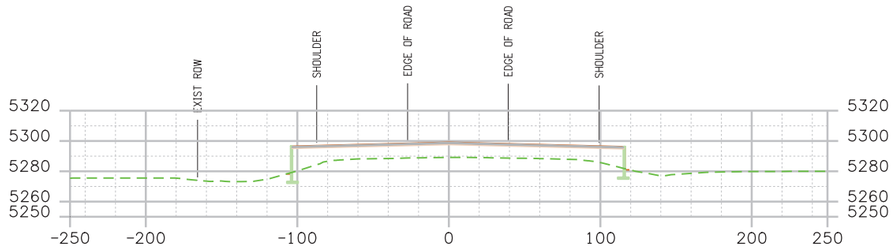
Region 1 DK

As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
I-70 CROSS SECTION 1

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 24



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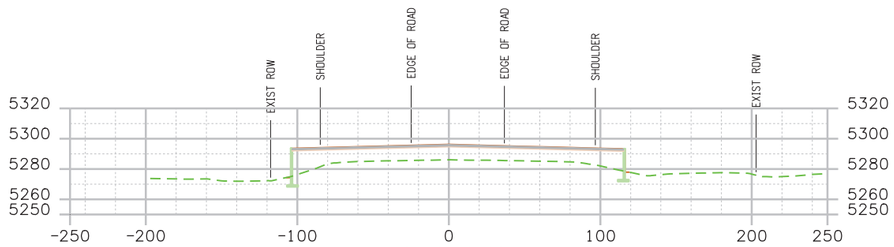

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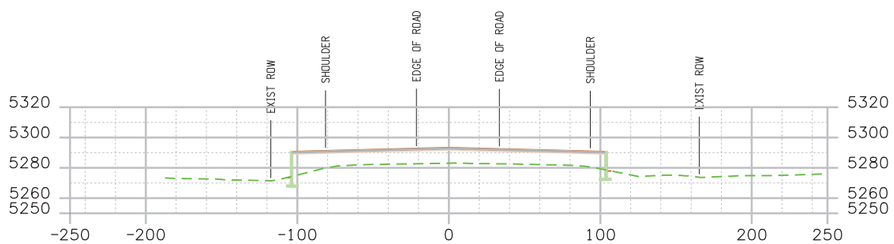

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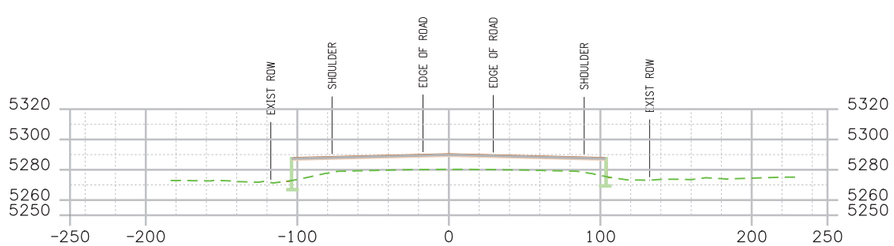

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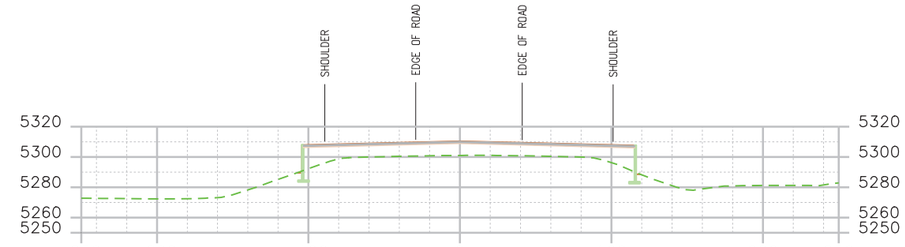

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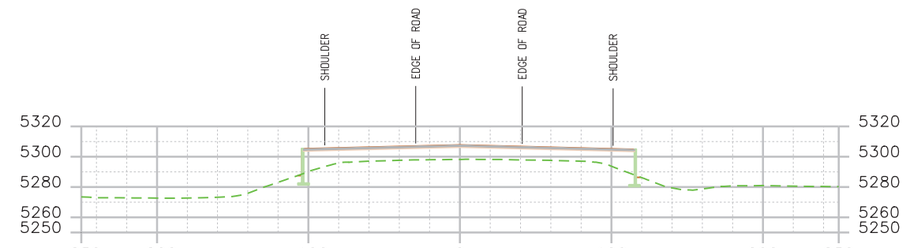

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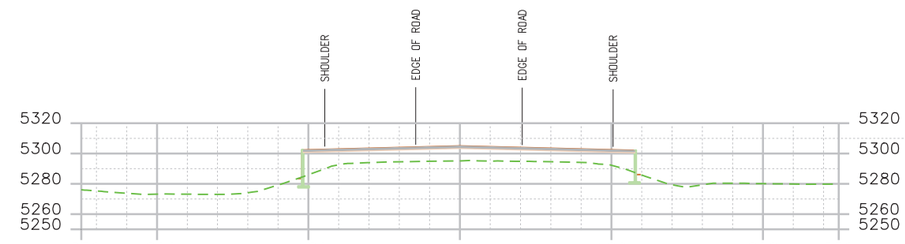

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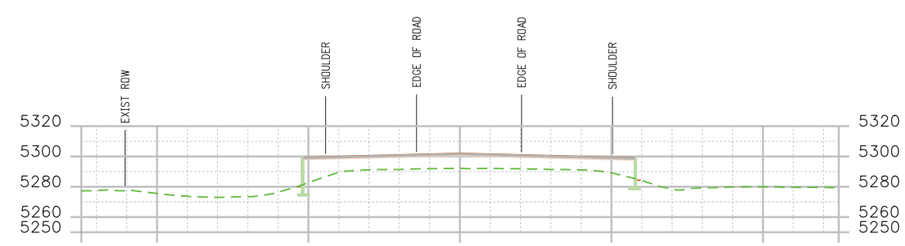

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User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 8/5/2013
File Name: 19339_DES_Cross Sections 2.dgn
Horiz. Scale: 1:100 Vert. Scale:

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
CDOT DEPARTMENT OF TRANSPORTATION
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Denver, CO 80222
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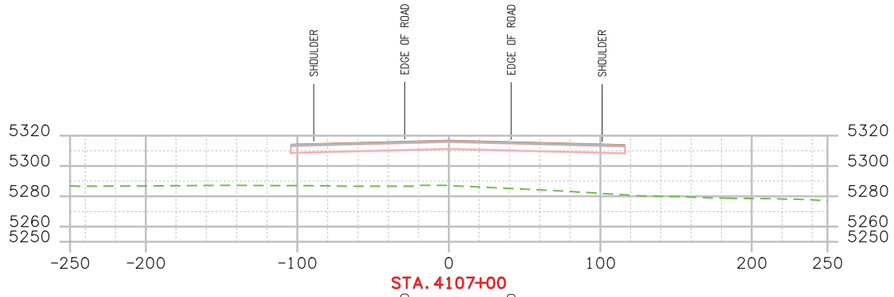
Region 1 DK

As Constructed
No Revisions:
Revised:
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
I-70 CROSS SECTION 2

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 25



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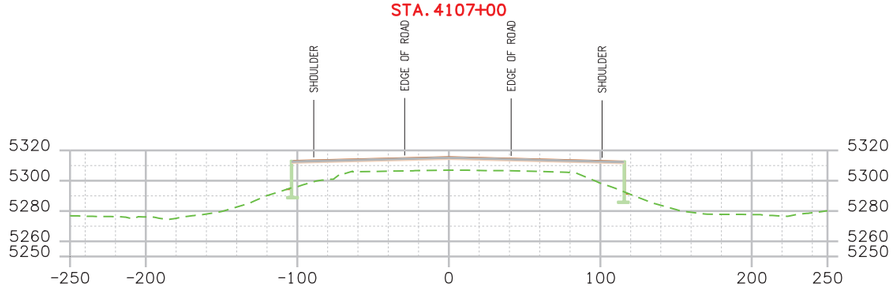

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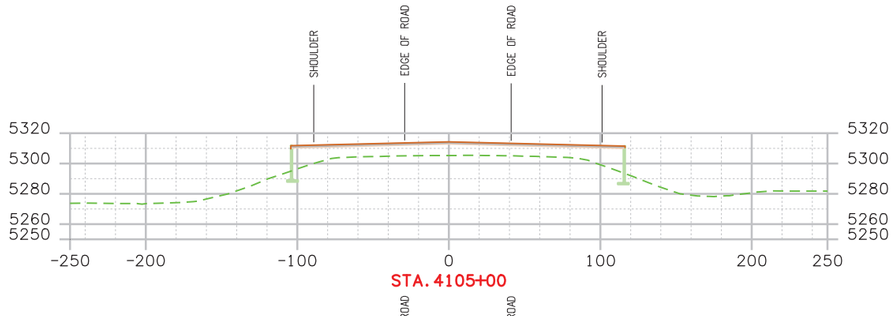

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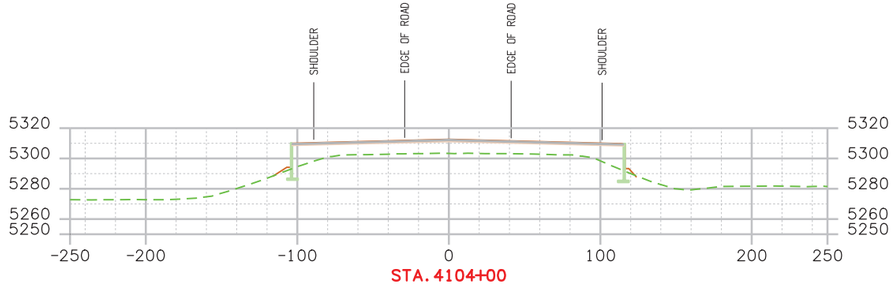

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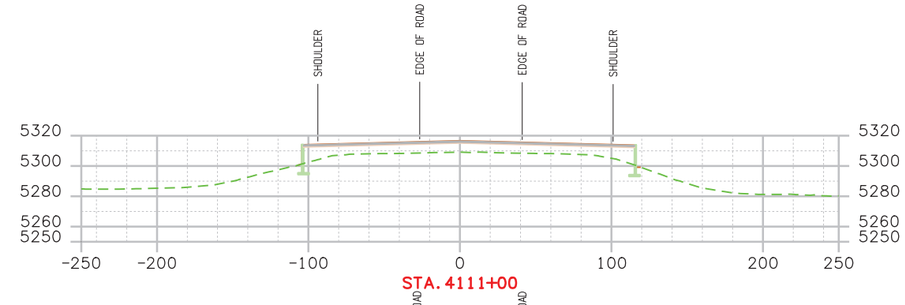

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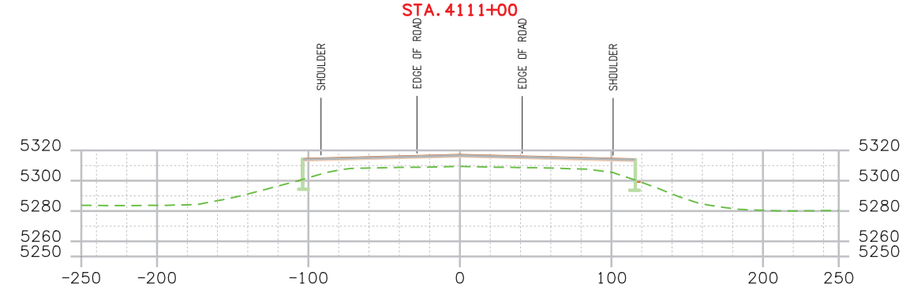

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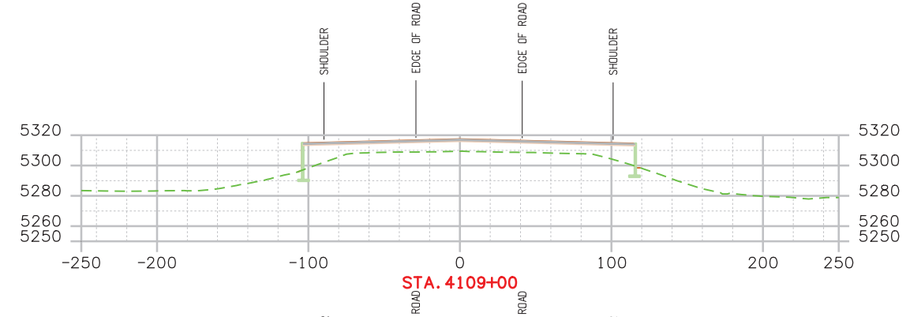

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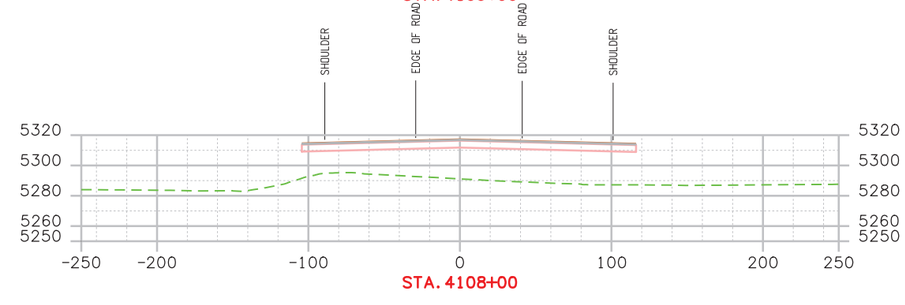

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User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 8/8/2013
File Name: 19339_DES_Cross Sections 3.dgn
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I-70 OVER HAVANA STREET
DESIGN BUILD
I-70 CROSS SECTION 3

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

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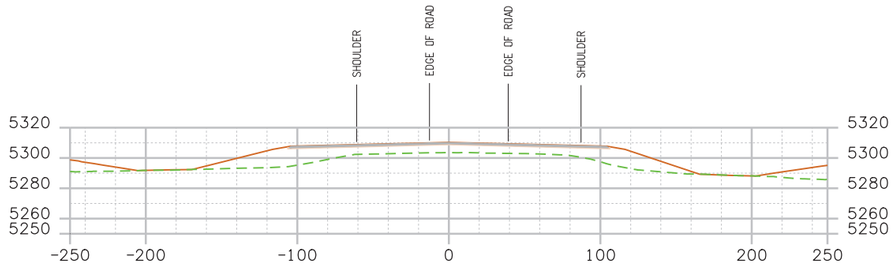
FBR 0704-230
19339 (CN)
Sheet Number 26



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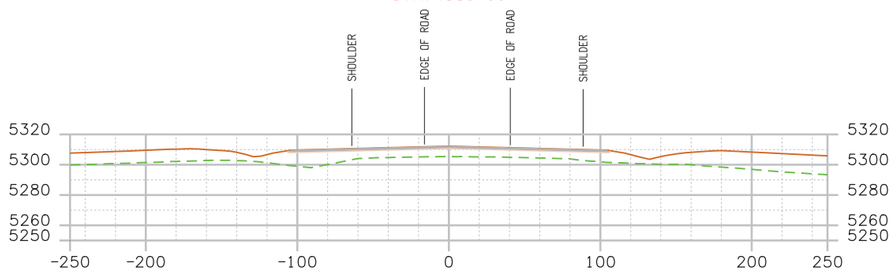

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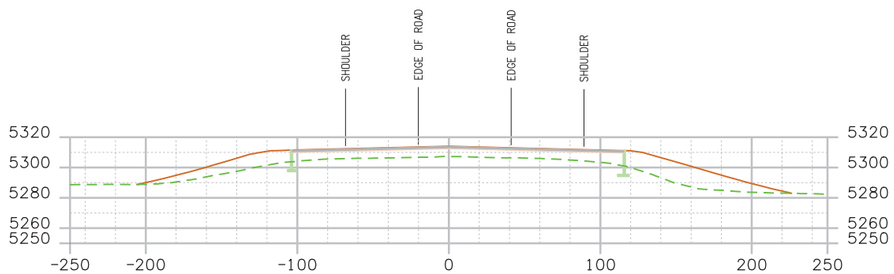

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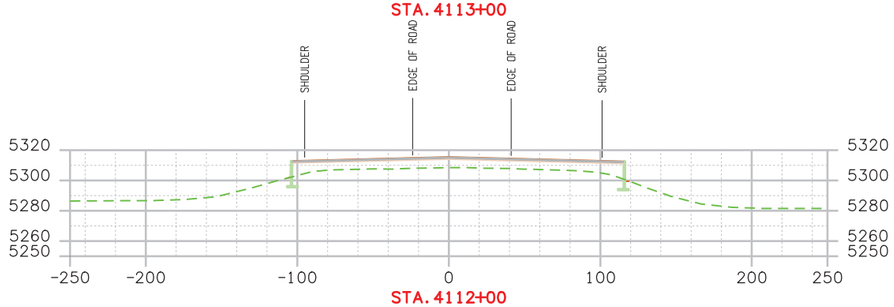

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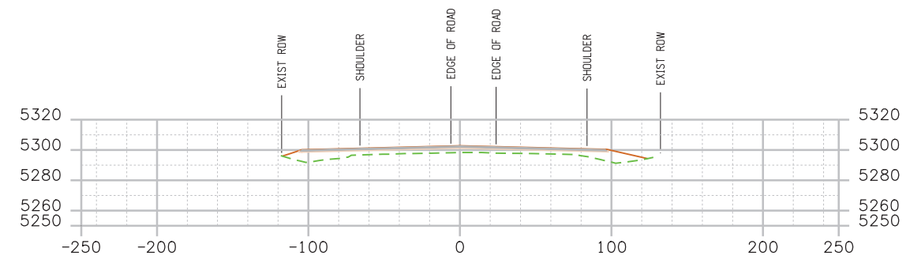

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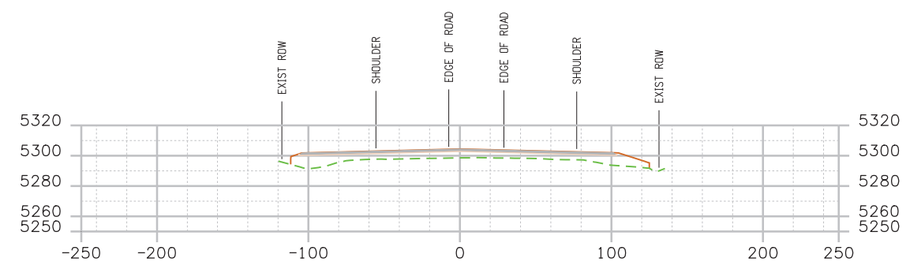

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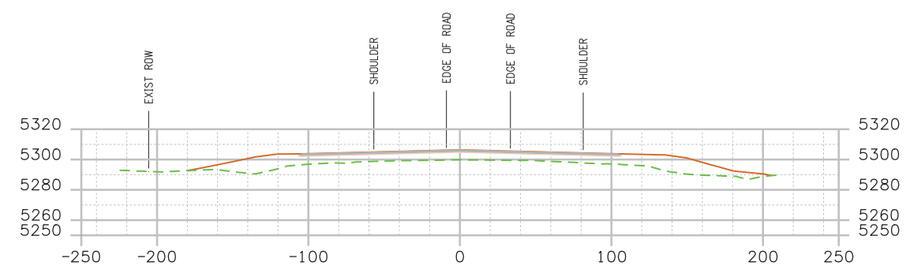

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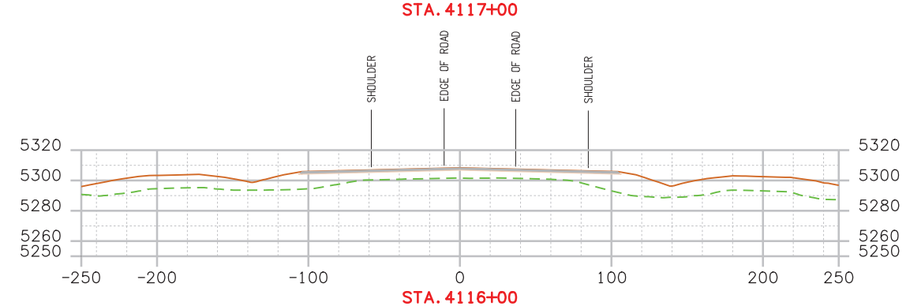

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User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

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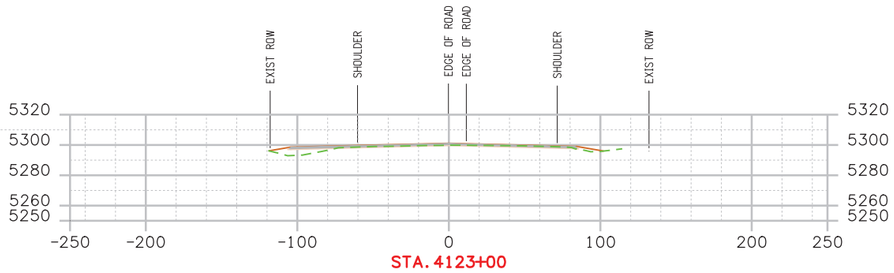
I-70 OVER HAVANA STREET
DESIGN BUILD
I-70 CROSS SECTION 4

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339 (CN)
Sheet Number 27



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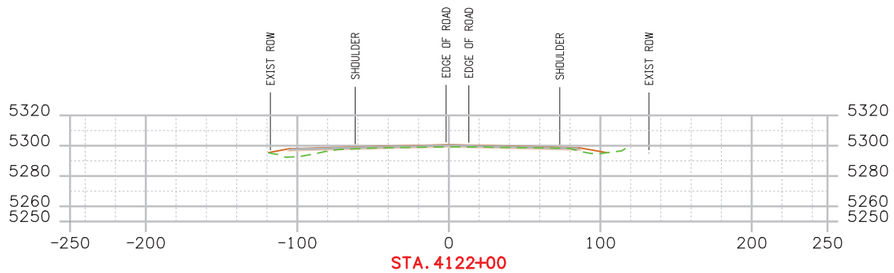

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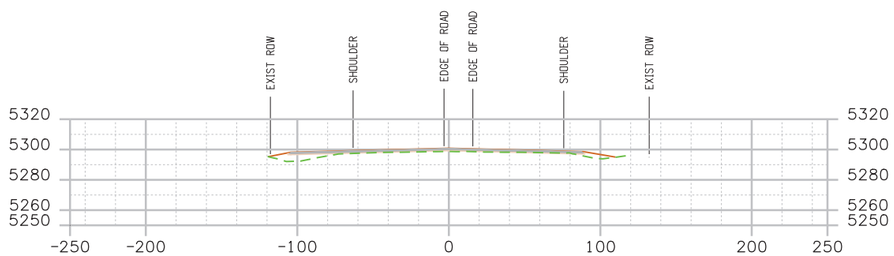

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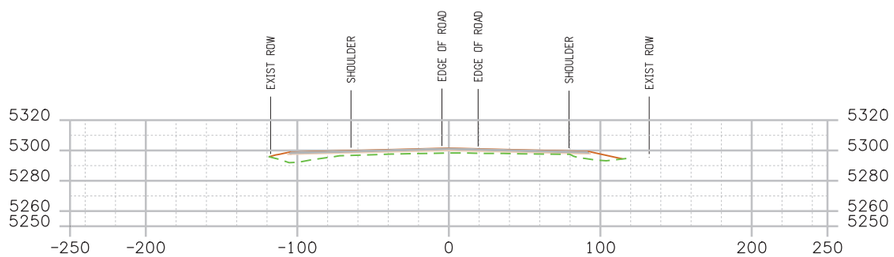

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Print Date: 8/8/2013
File Name: 19339_DES_Cross Sections 5.dgn
Horiz. Scale: 1:100 Vert. Scale:

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I-70 OVER HAVANA STREET
DESIGN BUILD
I-70 CROSS SECTION 5

Designer:
Detailer:
Subset:
Structure Numbers
Subset Sheets: of

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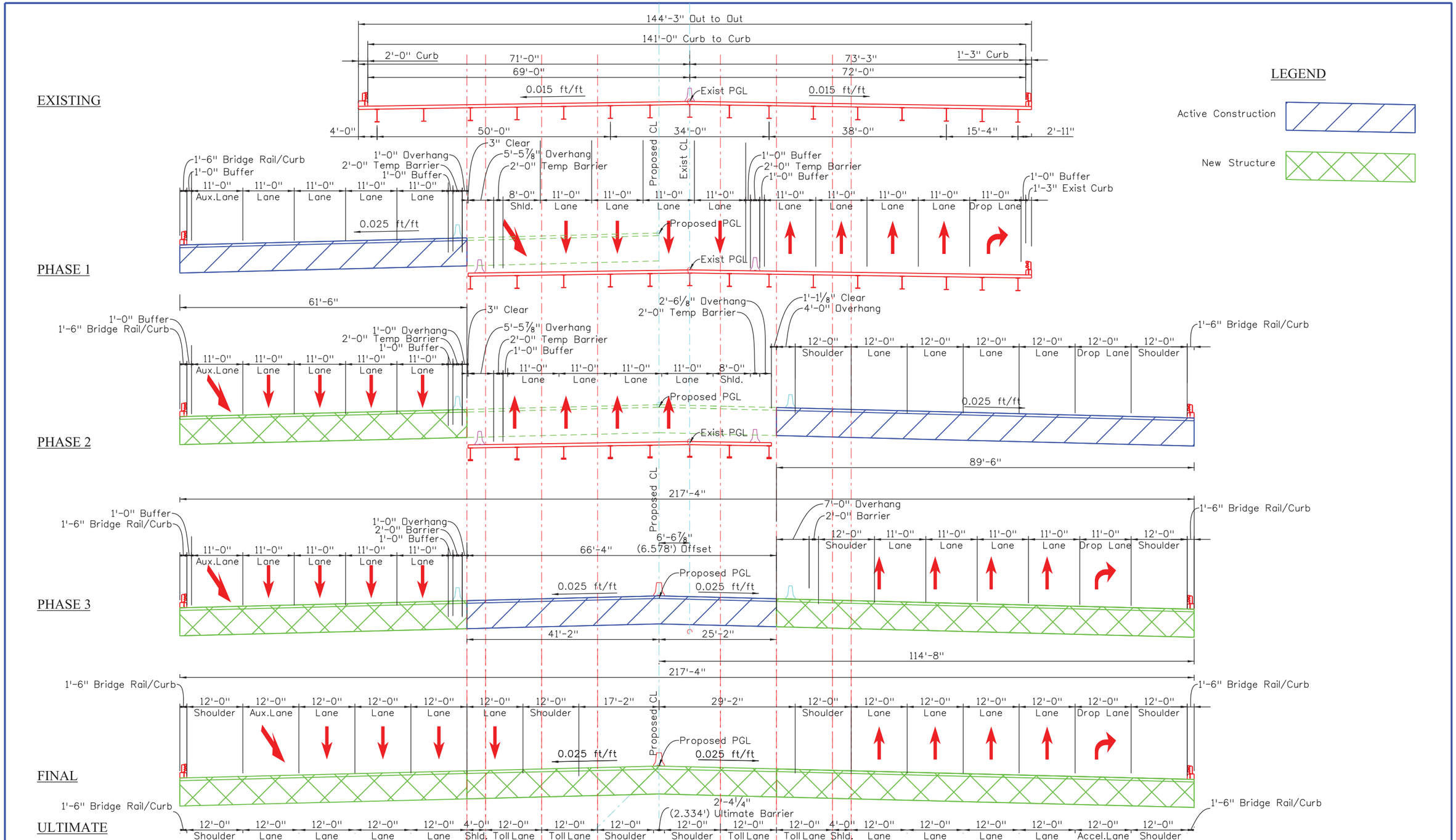
FBR 0704-230
19339 (CN)
Sheet Number 28



Print Date: 8/2/2013
File Name: 19339 MOT Typ Sec Full Buildout.dgn
Horiz. Scale: 1:20 Vert. Scale:

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I-70 OVER HAVANA STREET
MOT TYP SECTIONS
FULL BUILDOUT

Designer:	LHA	Structure Numbers	
Detailer:	LHA		
Subset:		Subset Sheets:	of

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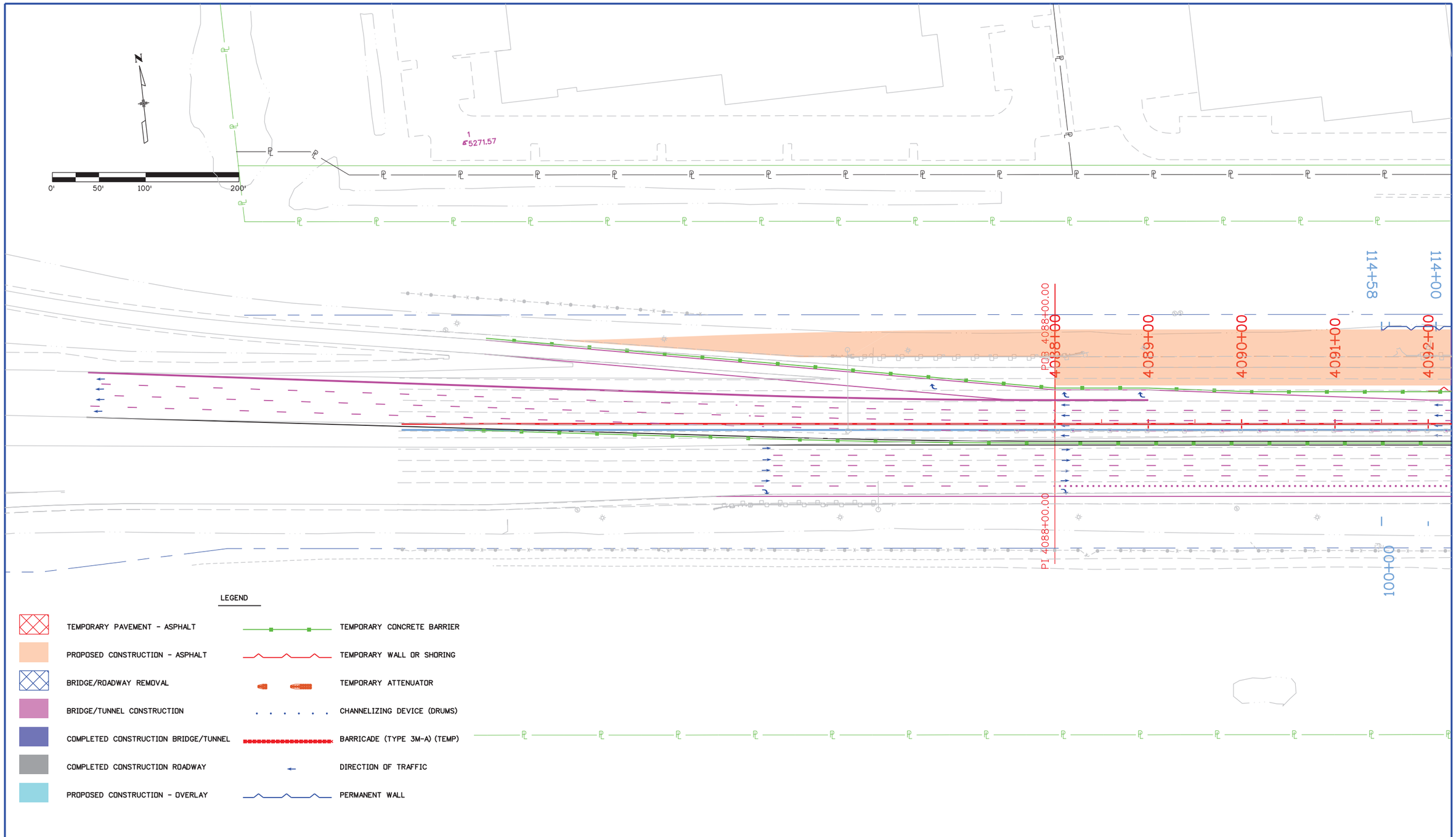
FBR 0704-230
19339(CN)
Sheet Number 29

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1A-1.dgn
Horiz. Scale: 1:100 Vert. Scale:

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DESIGN BUILD
MOT-PHASE 1A-1

Designer: LHA
Detailer: PL
Subset:
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Subset Sheets: of

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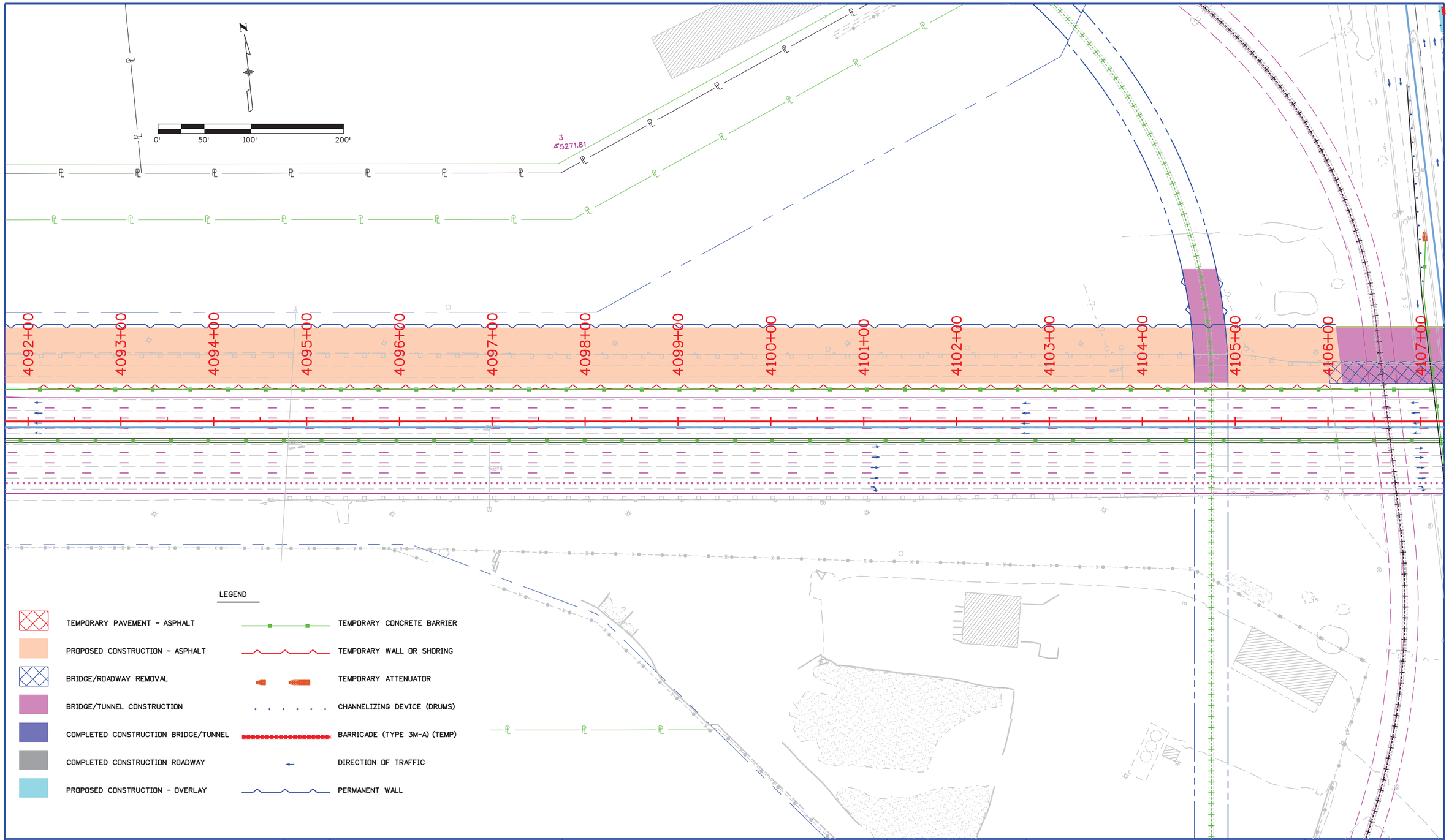
FBR 0704-230
19339(CN)
Sheet Number 30



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1A-2.dgn
Horiz. Scale: 1:100 Vert. Scale:

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DESIGN BUILD
MOT-PHASE 1A-2

Designer: LHA
Detailer: PL
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Structure Numbers
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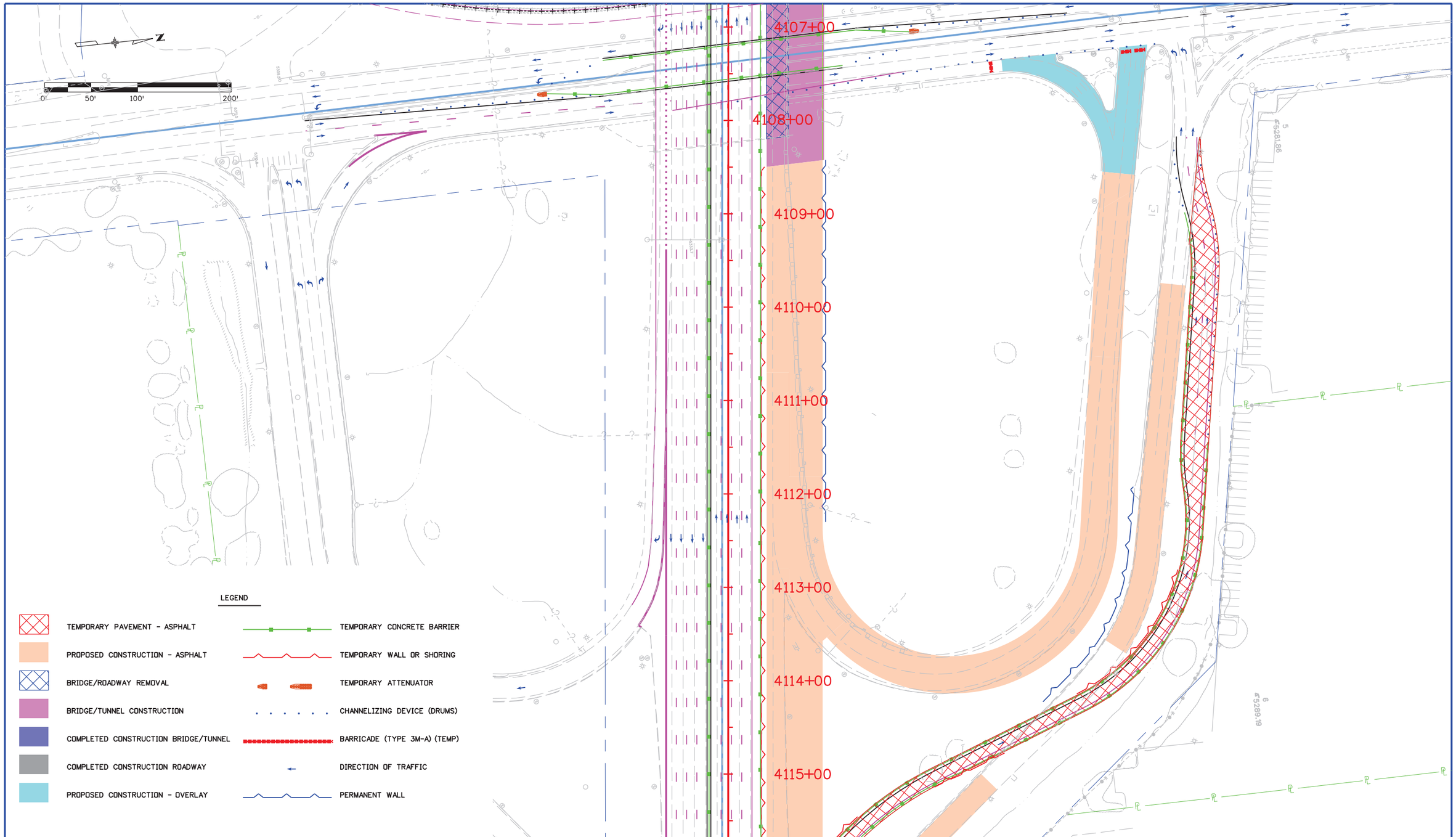
FBR 0704-230
19339(CN)
Sheet Number 31



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1A-3.dgn
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I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 1A-3

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Detailer: PL
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Structure Numbers
Subset Sheets: of

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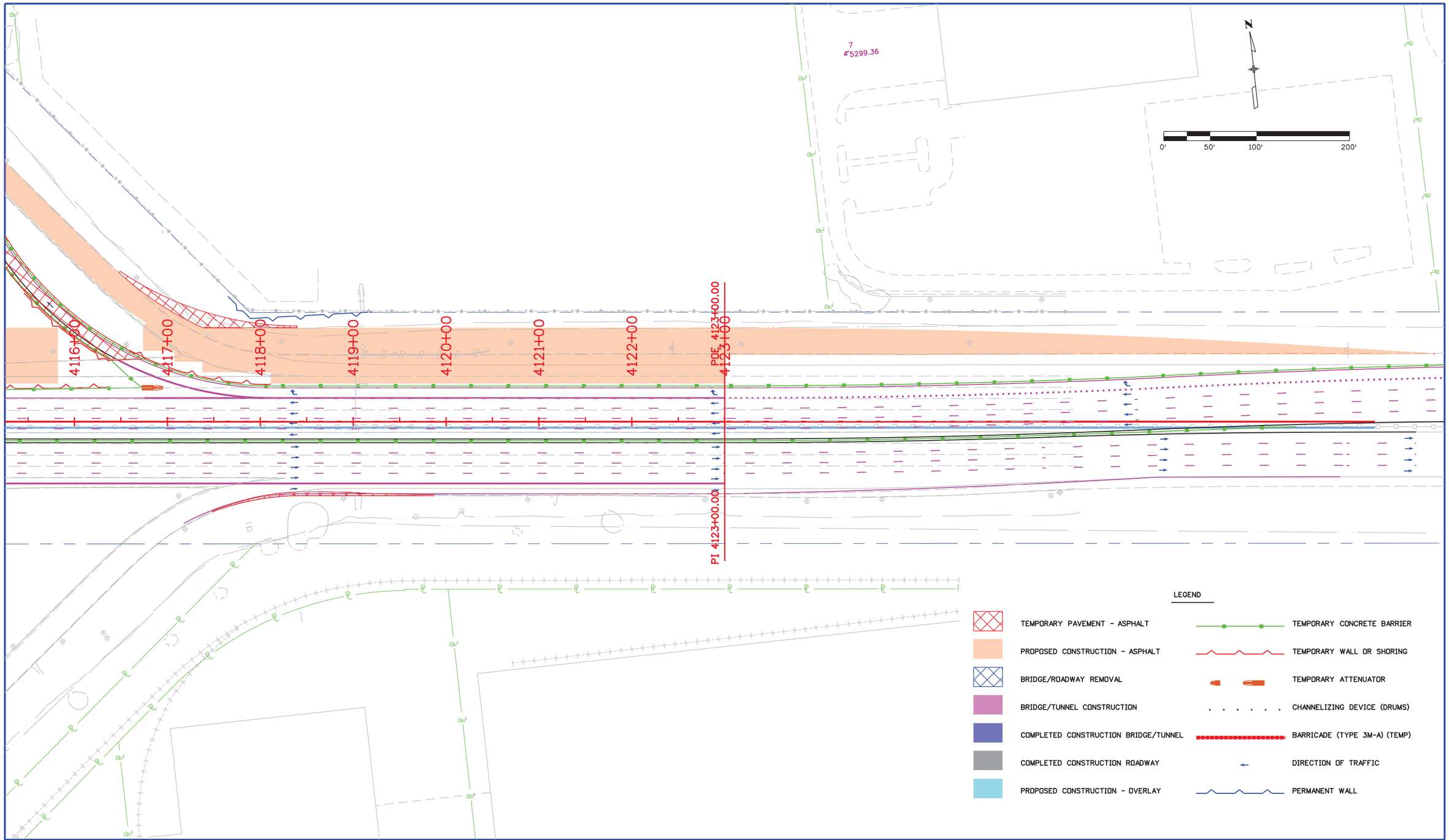
19339(CN)
Sheet Number 32



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1A-4.dgn
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DESIGN BUILD
MOT-PHASE 1A-4

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Detailer: PL
Structure Numbers
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Subset Sheets: of

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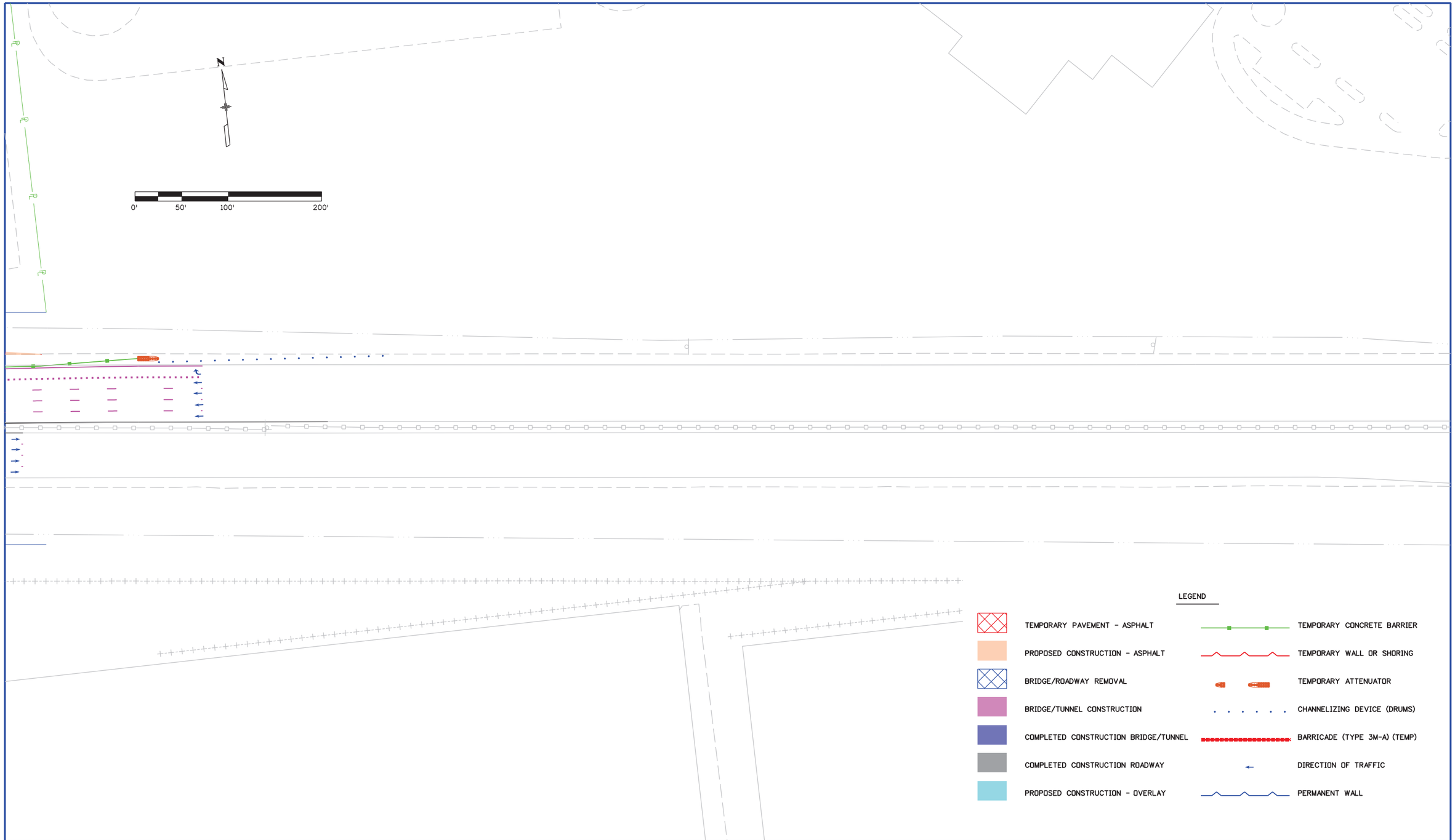
FBR 0704-230
19339(CN)
Sheet Number 33



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1A-5.dgn
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MOT-PHASE 1A-5

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

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FBR 0704-230
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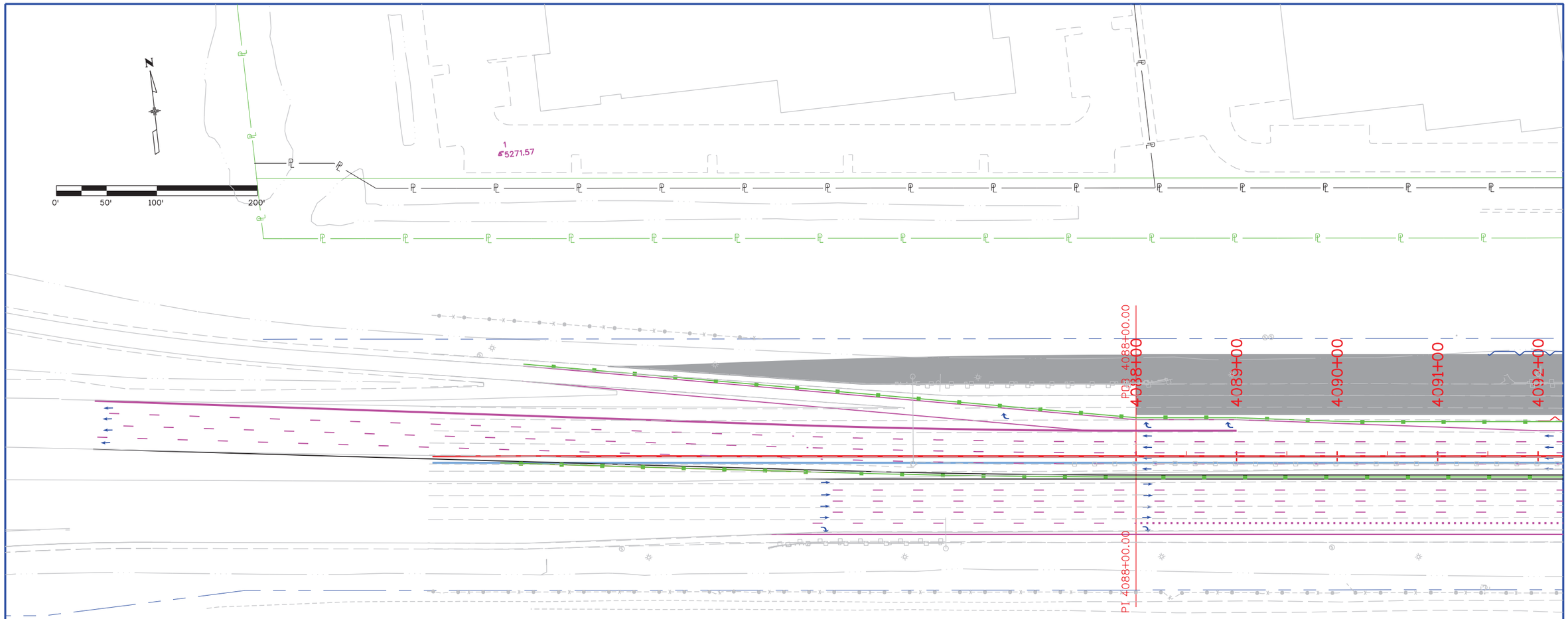
Sheet Number 34



LEGEND

- TEMPORARY PAVEMENT - ASPHALT
- PROPOSED CONSTRUCTION - ASPHALT
- BRIDGE/ROADWAY REMOVAL
- BRIDGE/TUNNEL CONSTRUCTION
- COMPLETED CONSTRUCTION BRIDGE/TUNNEL
- COMPLETED CONSTRUCTION ROADWAY
- PROPOSED CONSTRUCTION - OVERLAY
- TEMPORARY CONCRETE BARRIER
- TEMPORARY WALL OR SHORING
- TEMPORARY ATTENUATOR
- CHANNELIZING DEVICE (DRUMS)
- BARRICADE (TYPE 3M-A) (TEMP)
- DIRECTION OF TRAFFIC
- PERMANENT WALL

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_v8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1B-1.dgn
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DESIGN BUILD
MOT-PHASE 1B-1

Designer: LHA
Detailer: PL
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Structure Numbers
Subset Sheets: of

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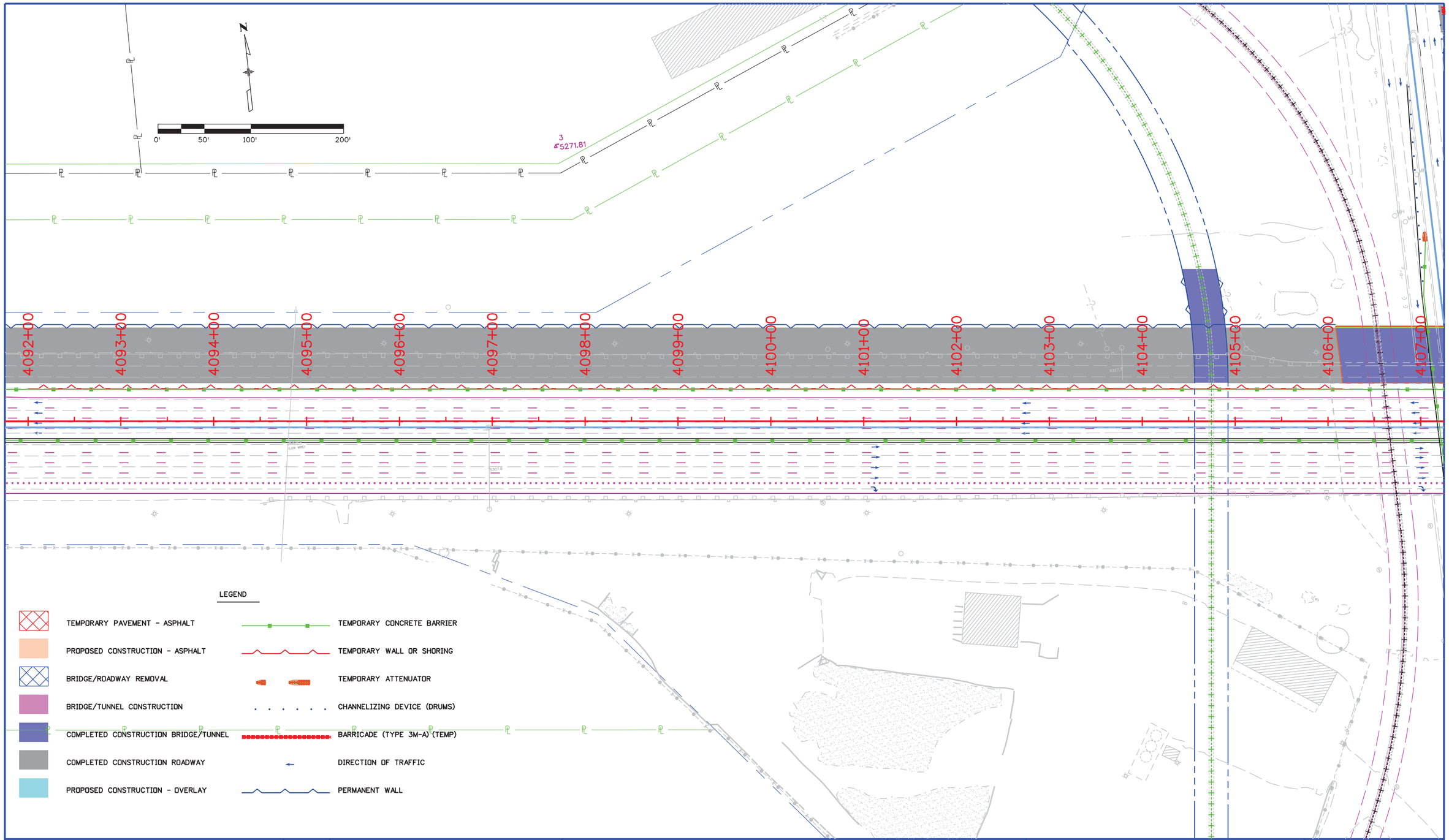
FBR 0704-230
19339(CN)
Sheet Number 35



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1B-2.dgn
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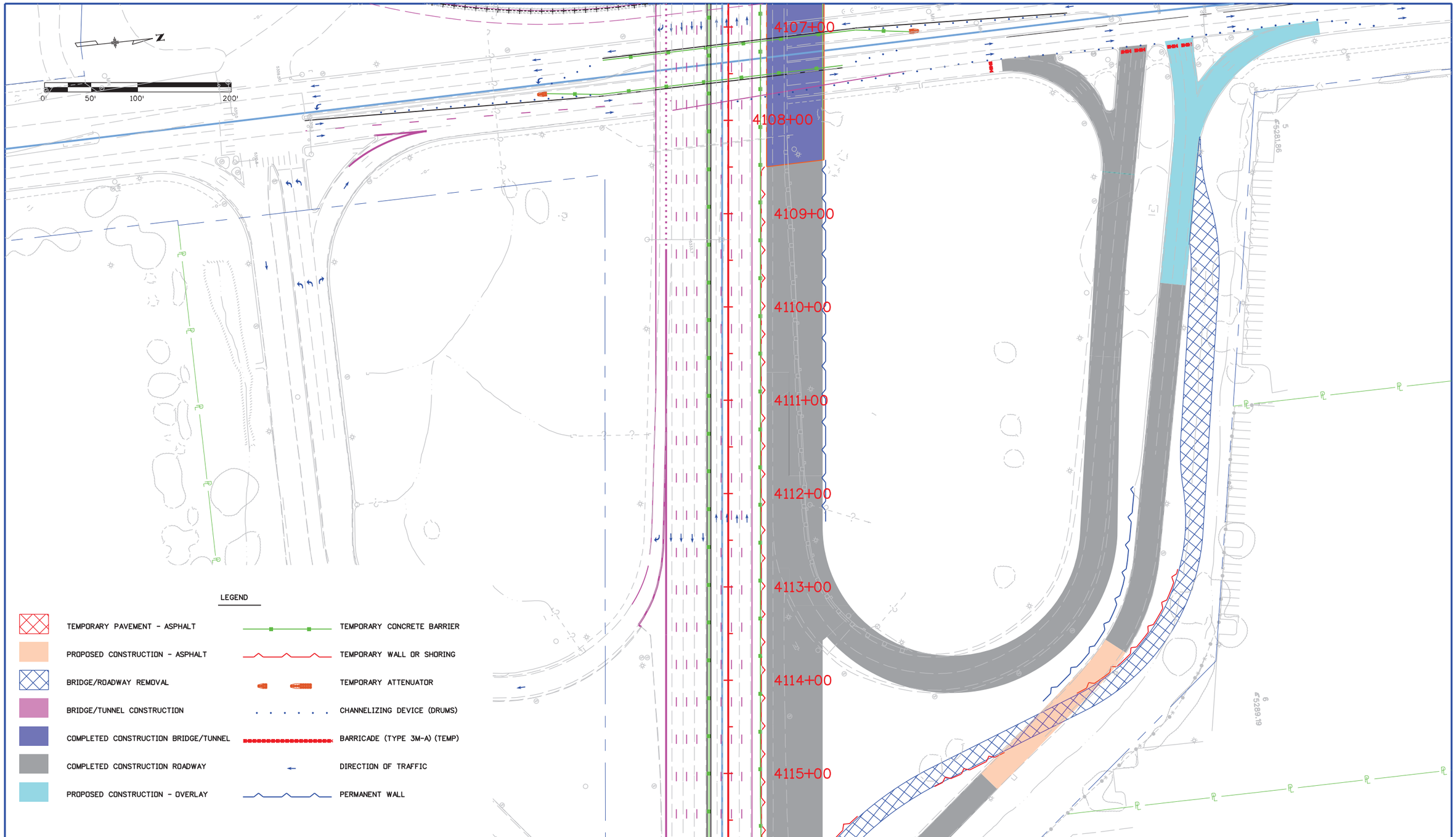
DESIGN BUILD
MOT-PHASE 1B-2

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 36



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1B-3.dgn
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DESIGN BUILD
MOT-PHASE 1B-3

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
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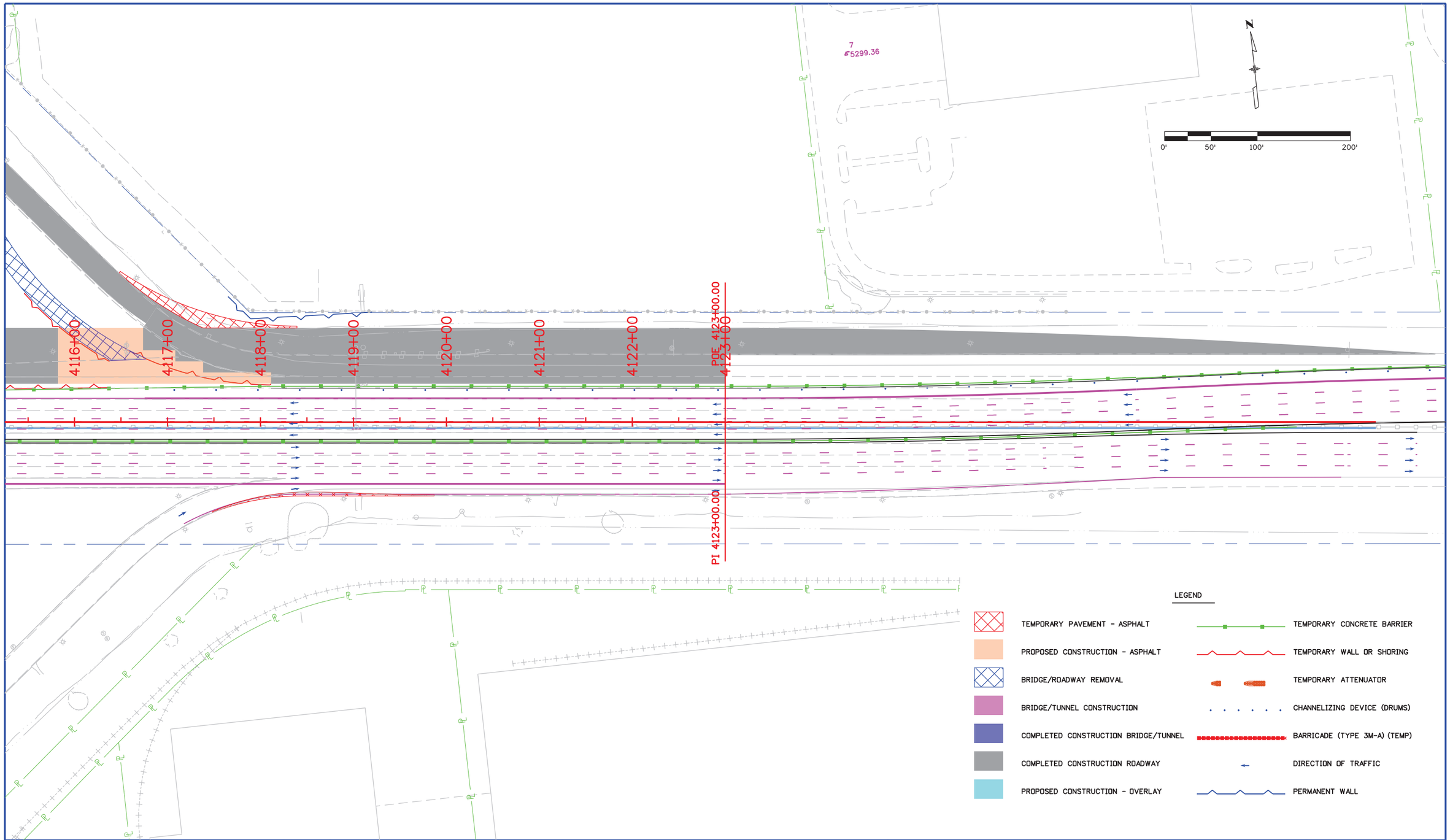
Sheet Number 37



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1B-4.dgn
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MOT-PHASE 1B-4

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

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FBR 0704-230
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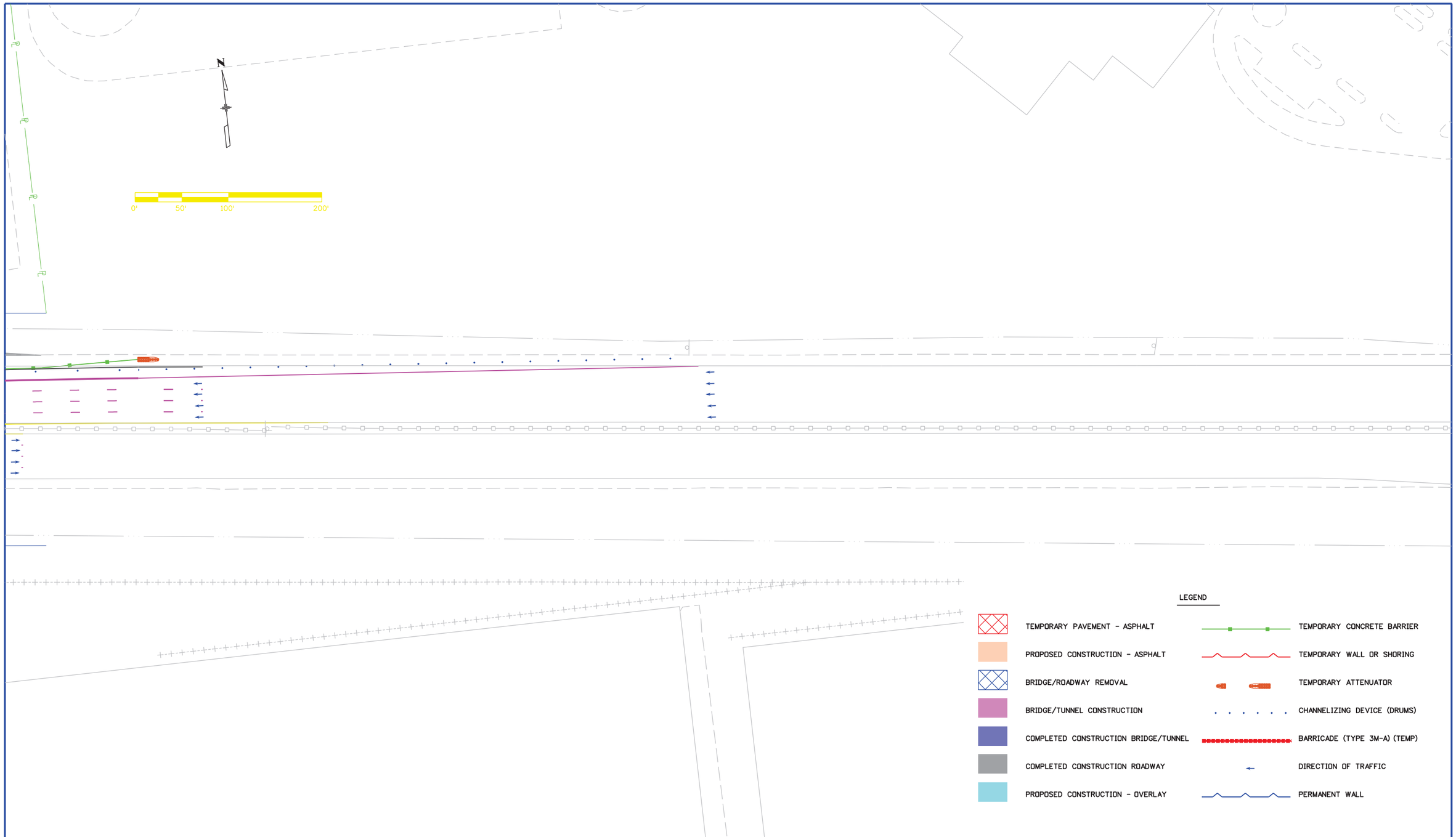
Sheet Number 38



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-1B-5.dgn
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No Revisions:
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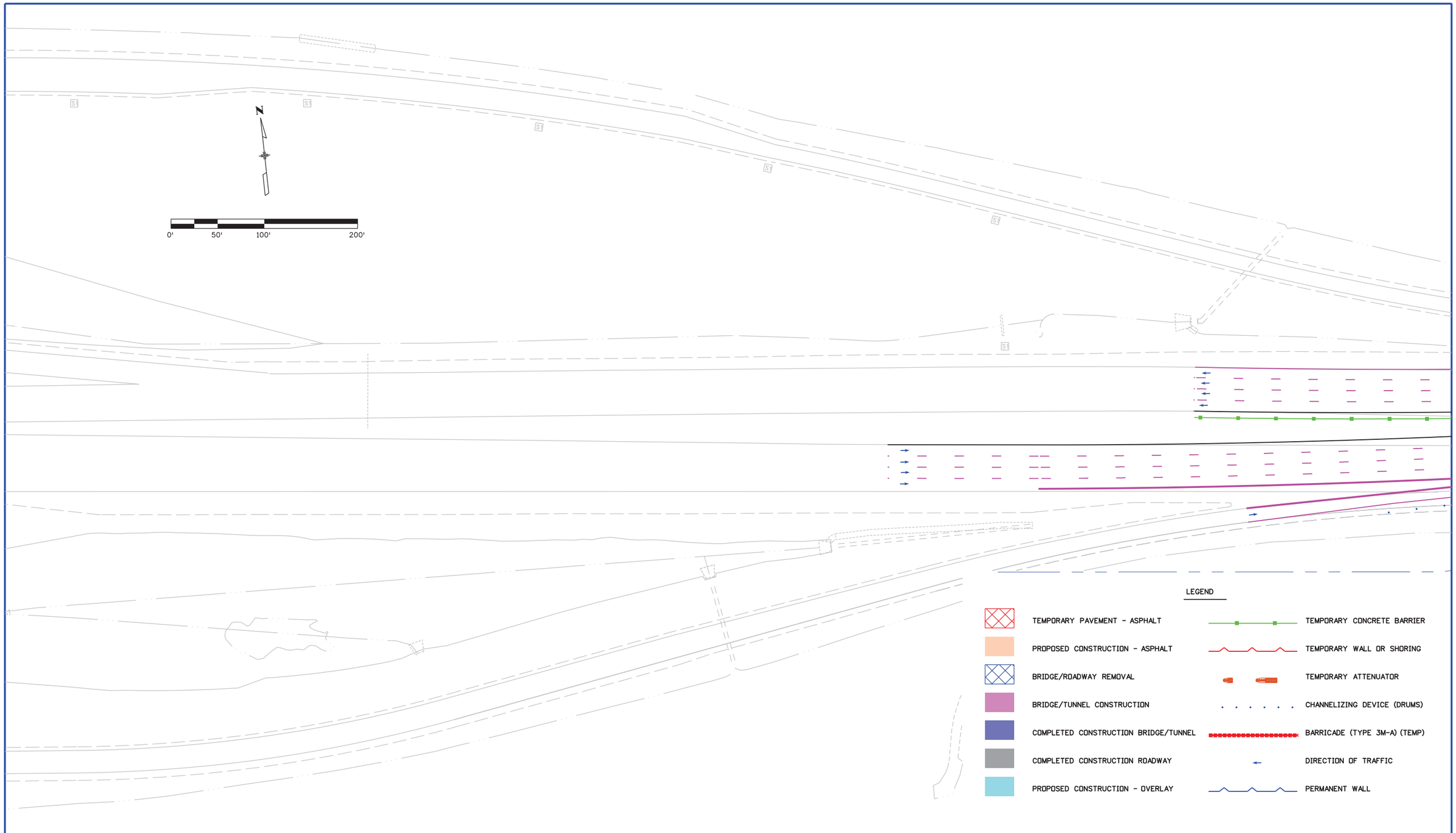
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 1B-5

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 39



Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2A-1.dgn
Horiz. Scale: 1:100 Vert. Scale:

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Sheet Revisions		
Date:	Comments	Init.

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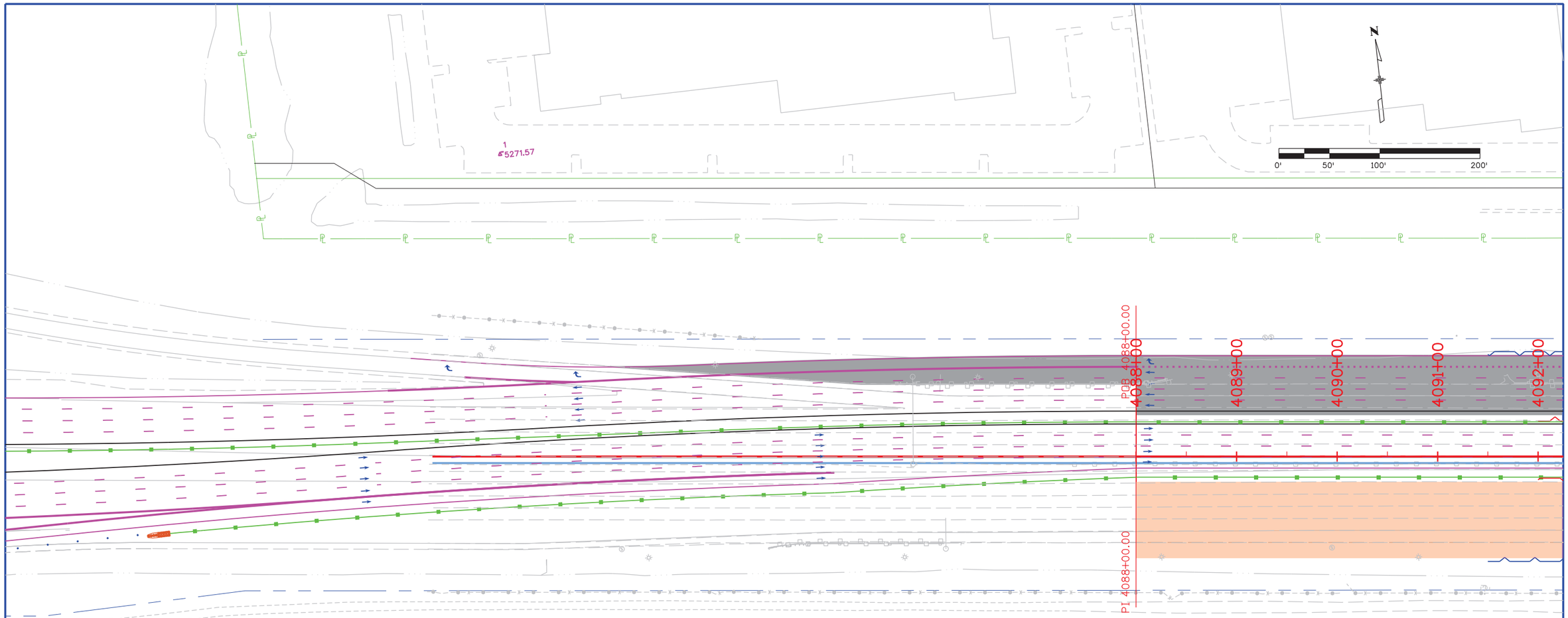
Void:

I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2A-1

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 40

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_-V8i.pltcfg



LEGEND

- TEMPORARY PAVEMENT - ASPHALT
- PROPOSED CONSTRUCTION - ASPHALT
- BRIDGE/ROADWAY REMOVAL
- BRIDGE/TUNNEL CONSTRUCTION
- COMPLETED CONSTRUCTION BRIDGE/TUNNEL
- COMPLETED CONSTRUCTION ROADWAY
- PROPOSED CONSTRUCTION - OVERLAY
- TEMPORARY CONCRETE BARRIER
- TEMPORARY WALL OR SHORING
- TEMPORARY ATTENUATOR
- CHANNELIZING DEVICE (DRUMS)
- BARRICADE (TYPE 3M-A) (TEMP)
- DIRECTION OF TRAFFIC
- PERMANENT WALL

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_v8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2A-2.dgn
Horiz. Scale: 1:100 Vert. Scale:

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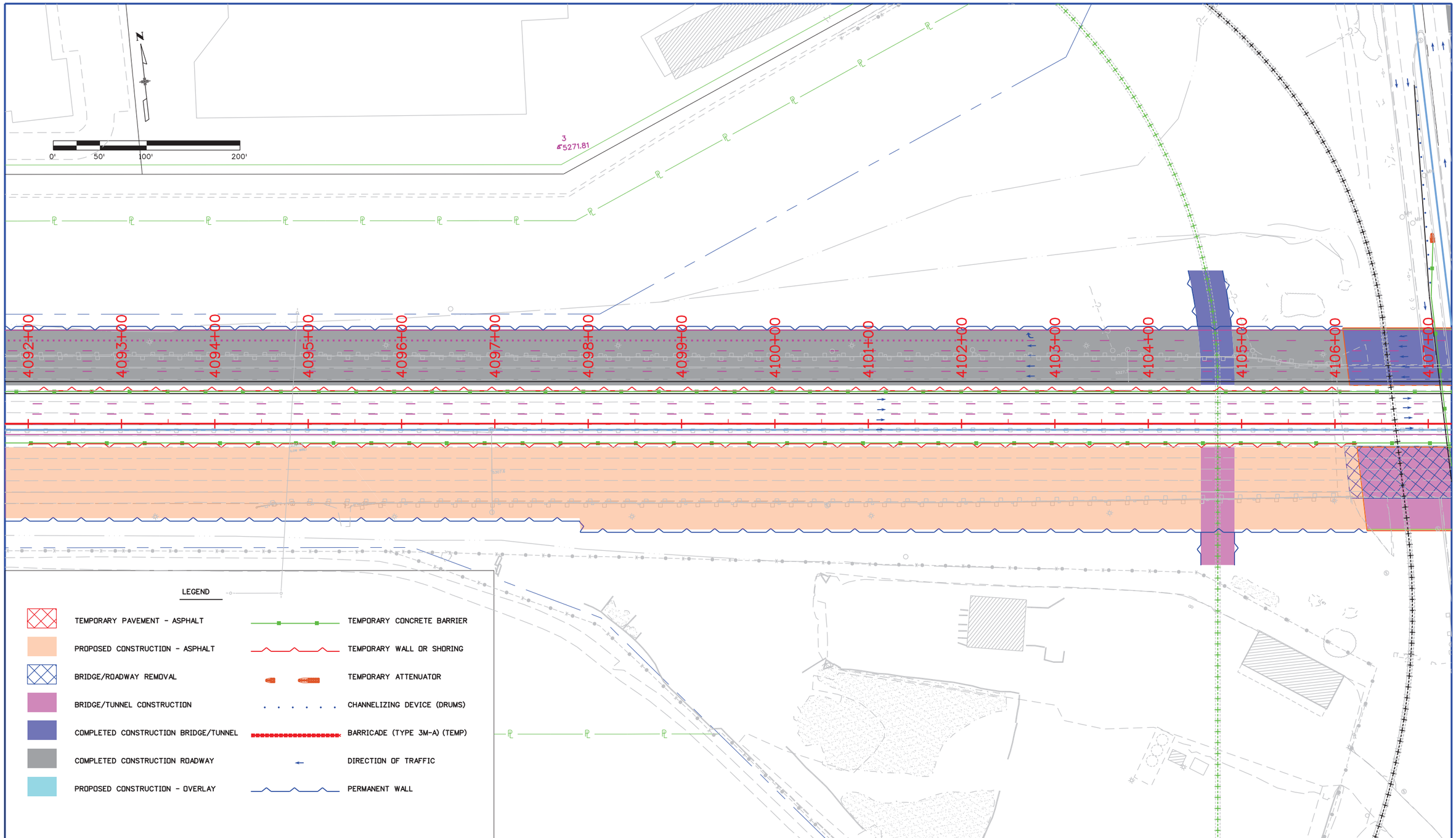
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2A-2

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 41



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2A-3.dgn
Horiz. Scale: 1:100 Vert. Scale:

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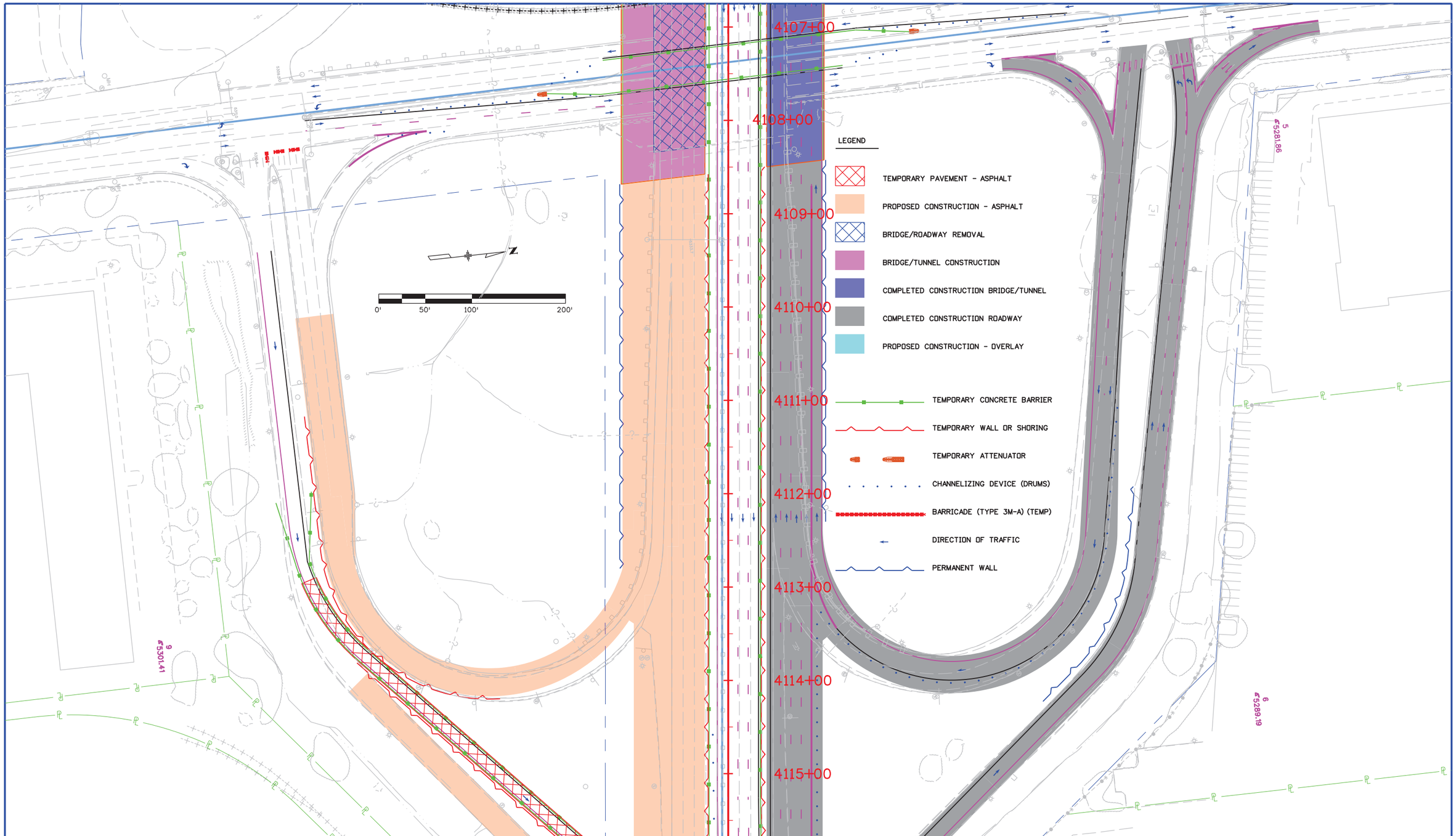
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2A-3

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 42



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2A-4.dgn
Horiz. Scale: 1:100 Vert. Scale:

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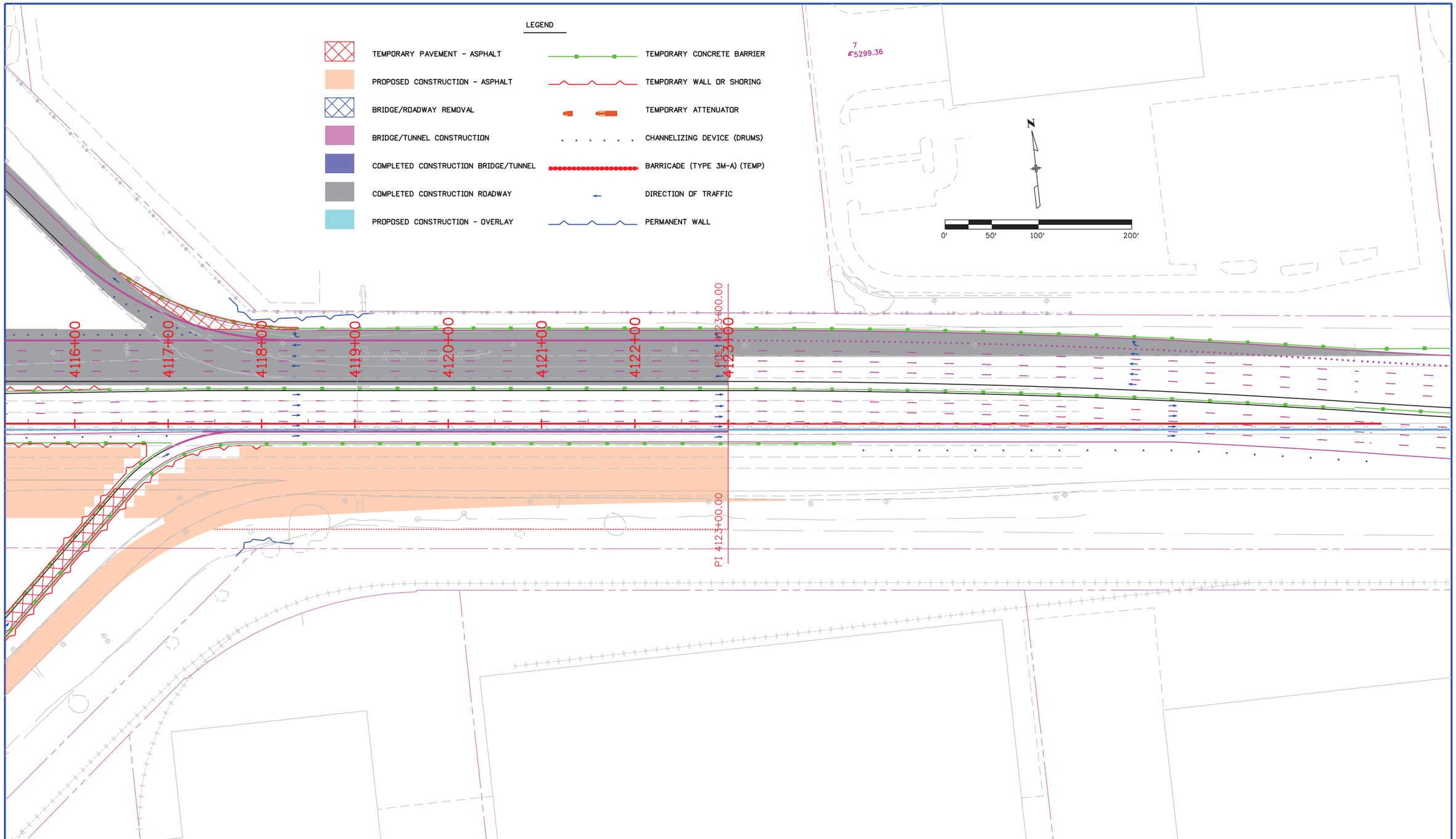
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2A-4

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 43



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 6/10/2013
File Name: 19339 MOT-PHASE-2A-5.dgn
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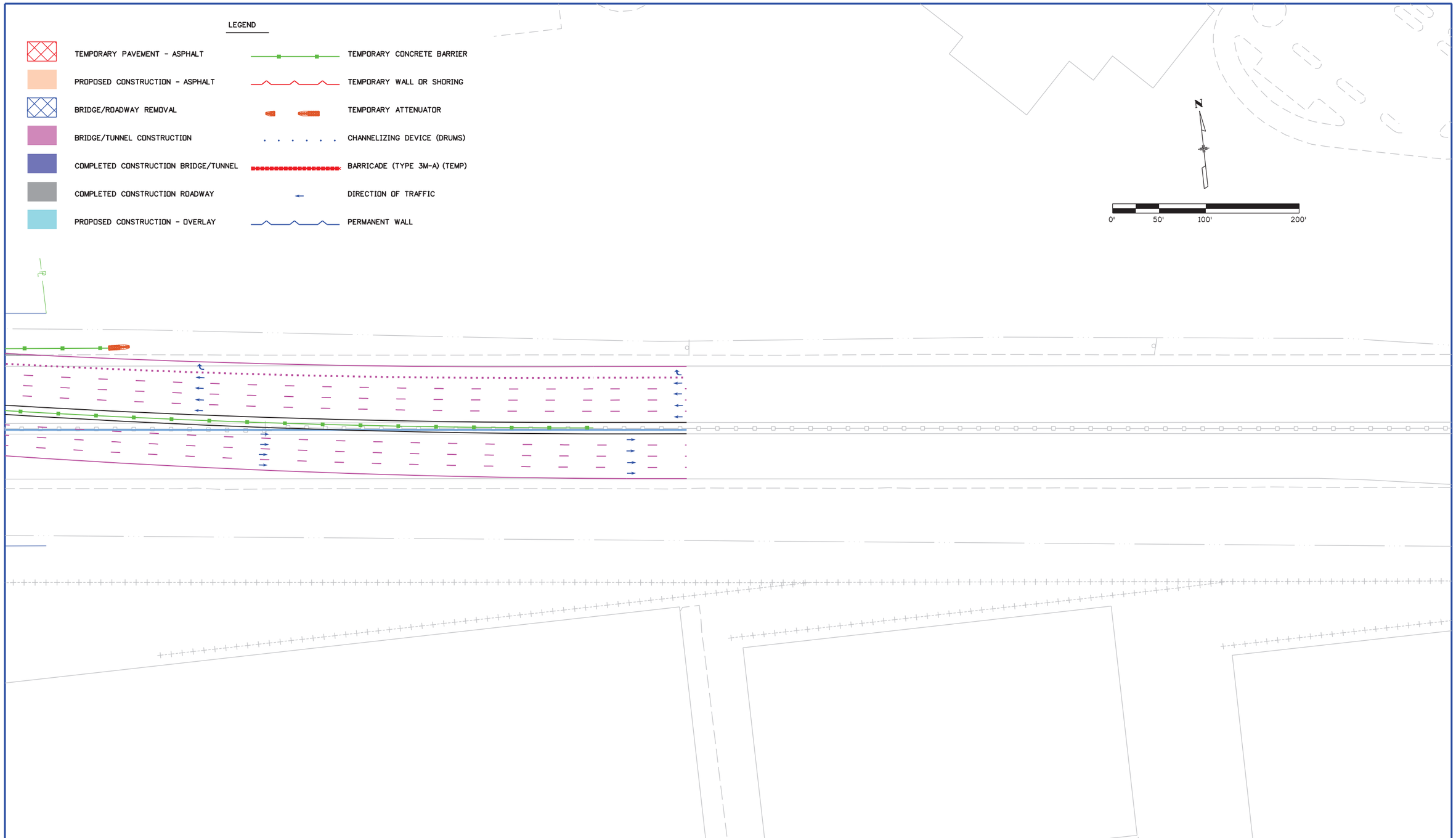
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2A-5

Designer:	LHA	Structure Numbers	
Detailer:	PL		
Subset:		Subset Sheets:	of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 44



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2A-6.dgn
Horiz. Scale: 1:100 Vert. Scale:

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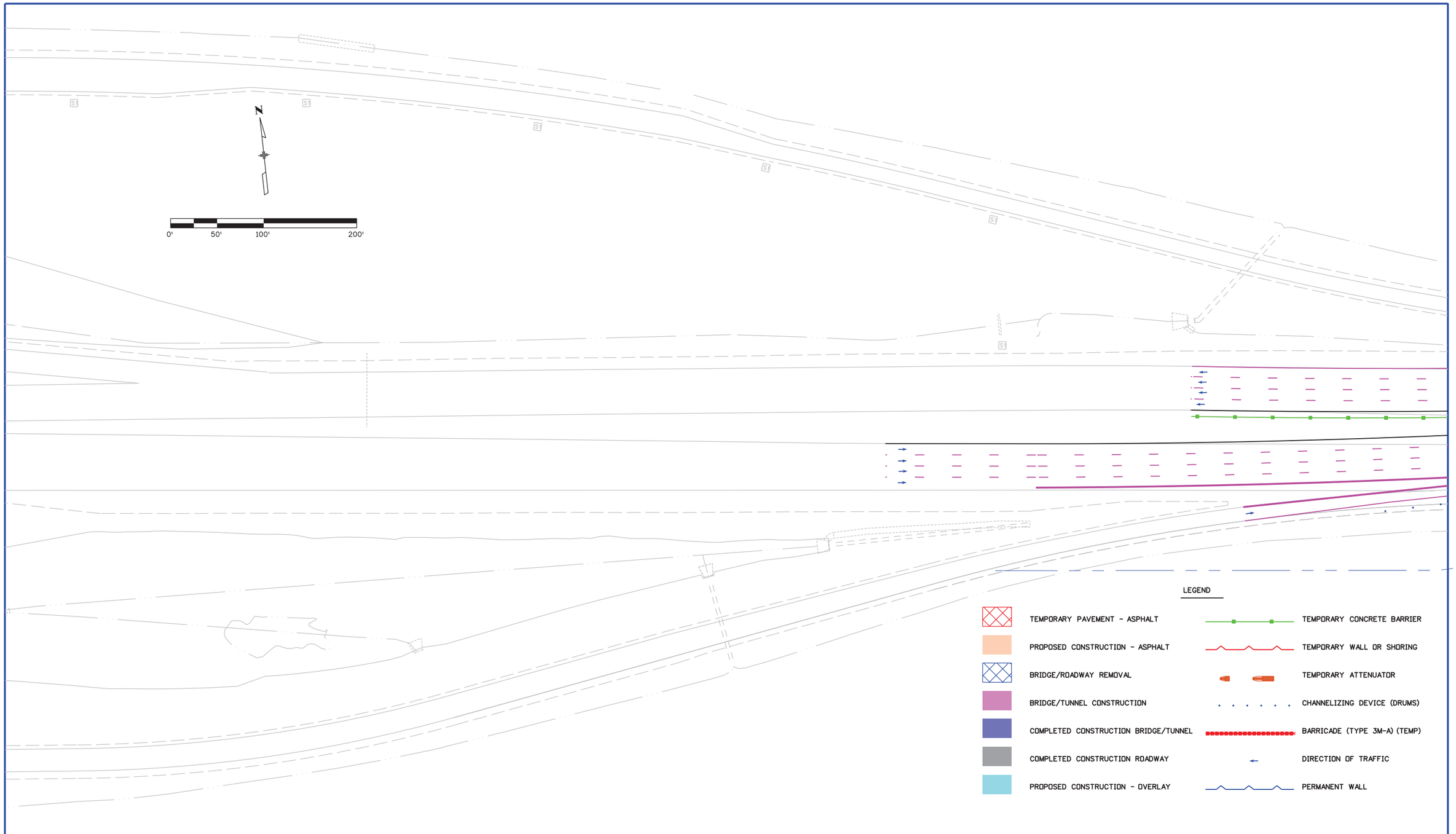
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2A-6

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 45



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_-V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2B-1.dgn
Horiz. Scale: 1:100 Vert. Scale:

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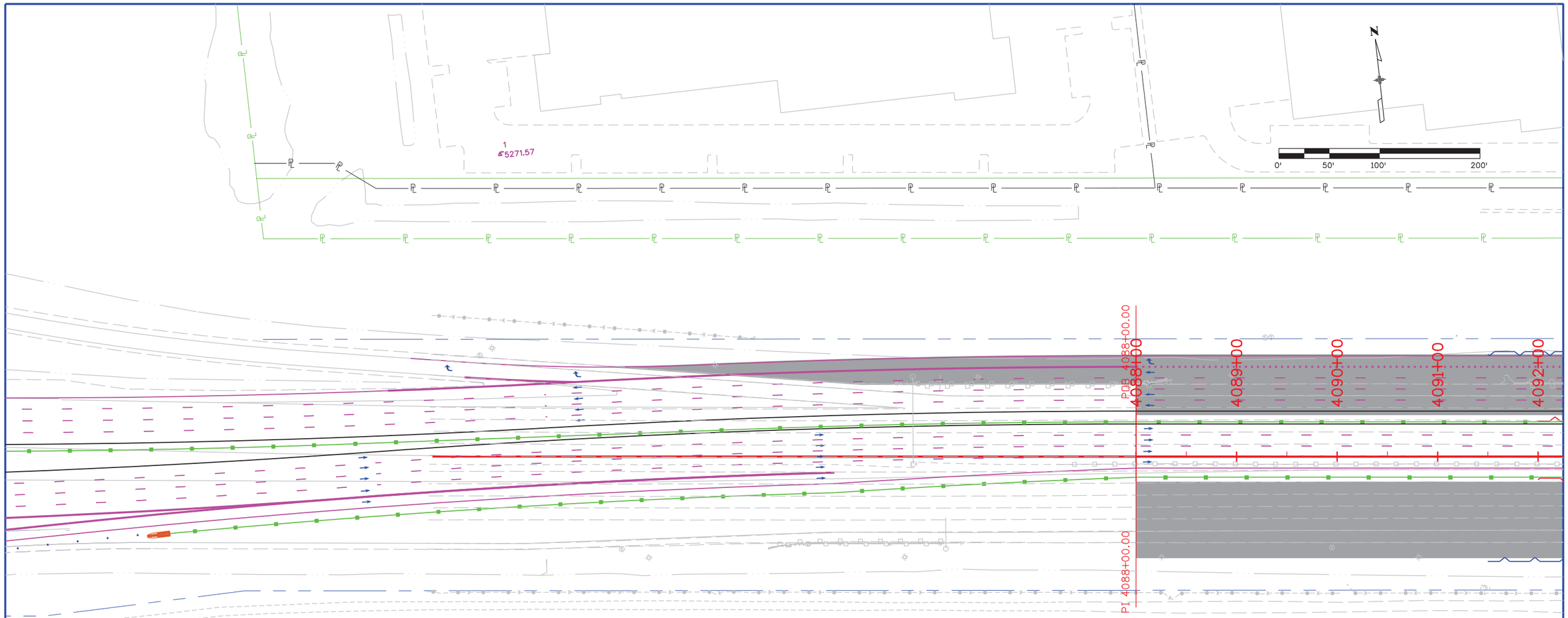
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2B-1

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 46



LEGEND

TEMPORARY PAVEMENT - ASPHALT	TEMPORARY CONCRETE BARRIER
PROPOSED CONSTRUCTION - ASPHALT	TEMPORARY WALL OR SHORING
BRIDGE/ROADWAY REMOVAL	TEMPORARY ATTENUATOR
BRIDGE/TUNNEL CONSTRUCTION	CHANNELIZING DEVICE (DRUMS)
COMPLETED CONSTRUCTION BRIDGE/TUNNEL	BARRICADE (TYPE 3M-A) (TEMP)
COMPLETED CONSTRUCTION ROADWAY	DIRECTION OF TRAFFIC
PROPOSED CONSTRUCTION - OVERLAY	PERMANENT WALL

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2B-2.dgn
Horiz. Scale: 1:100 Vert. Scale:

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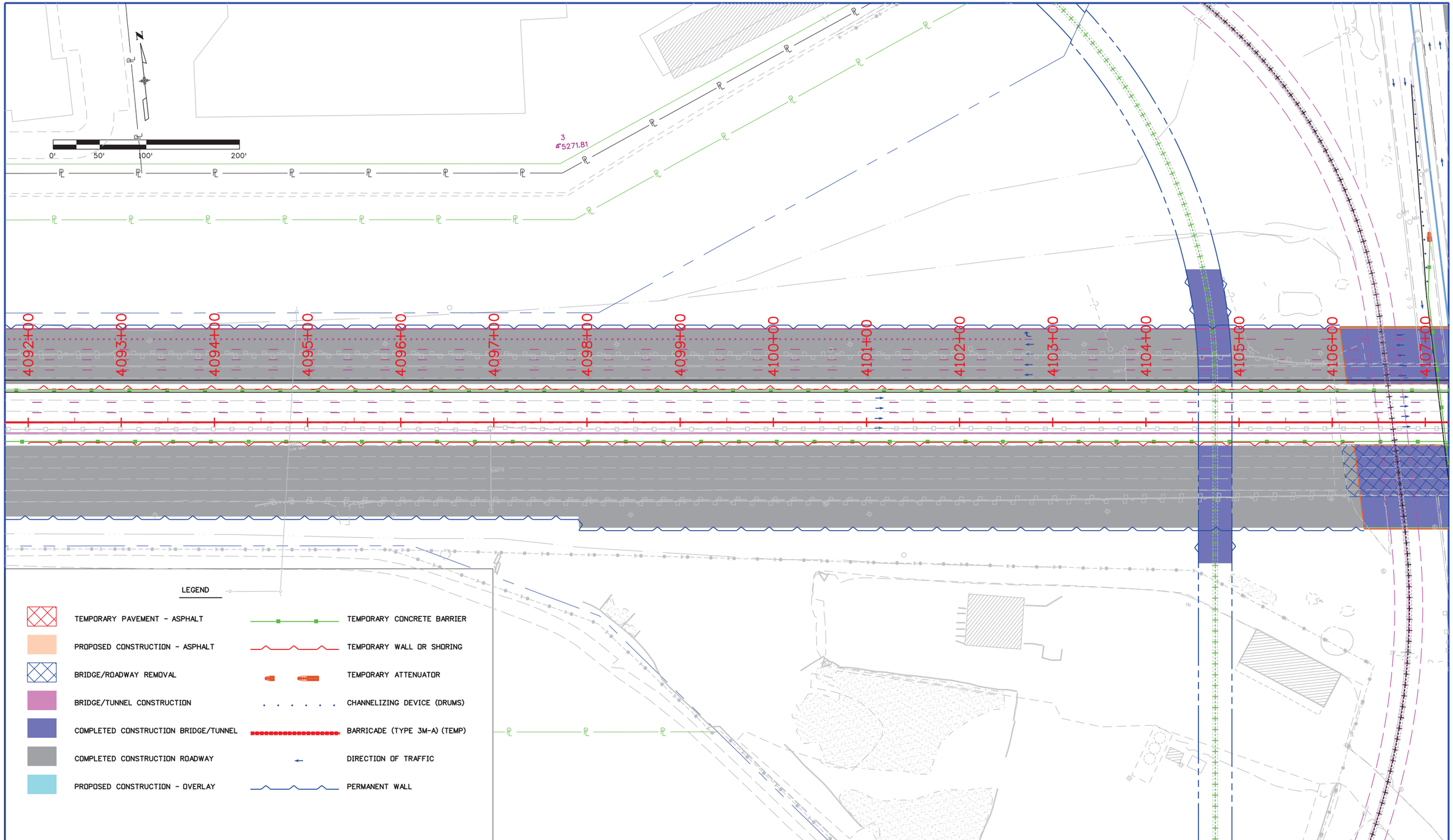
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2B-2

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 47

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_v8i.pltcfg



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2B-3.dgn
Horiz. Scale: 1:100 Vert. Scale:

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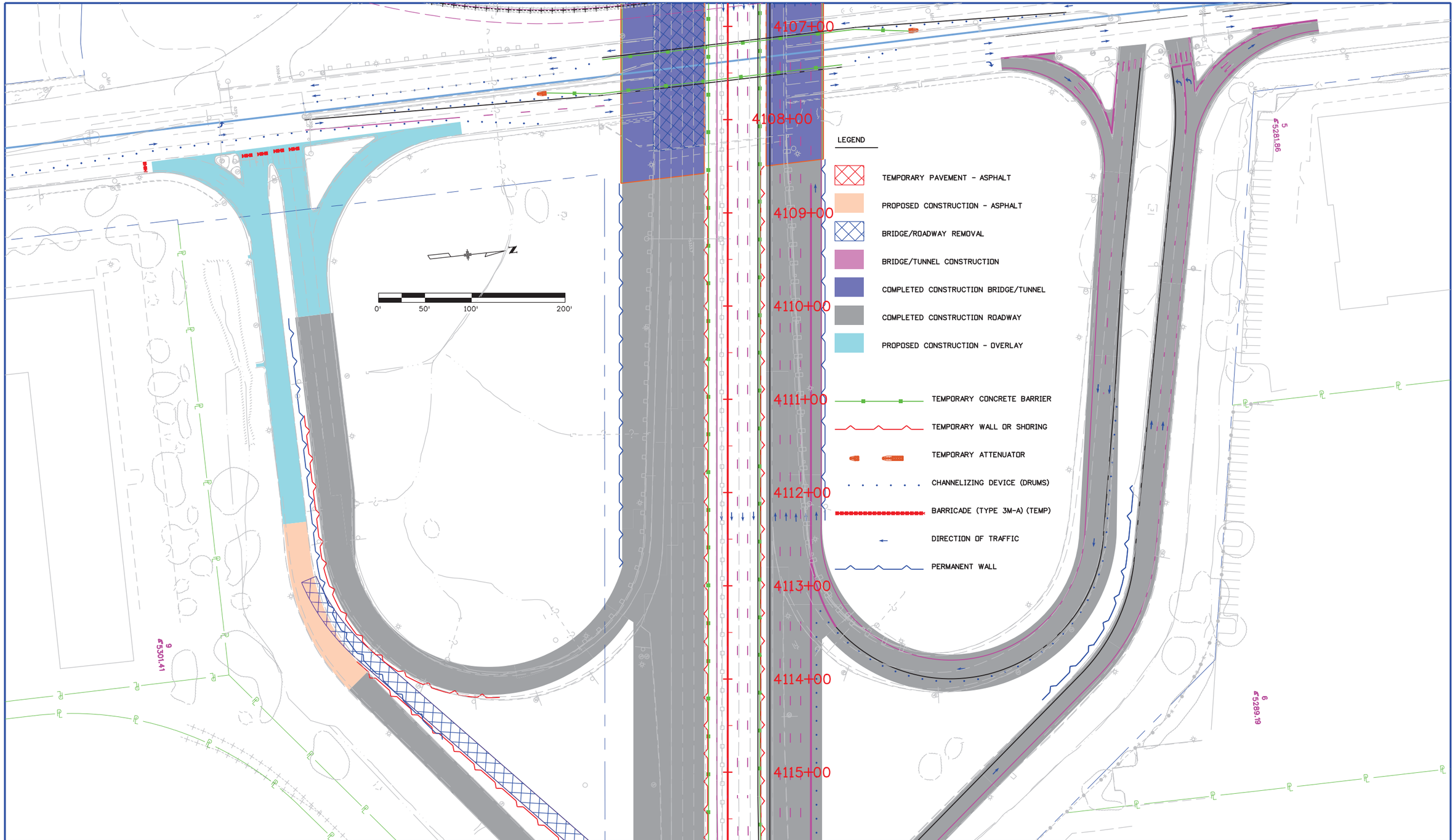
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2B-3

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 48



Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2B-4.dgn
Horiz. Scale: 1:100 Vert. Scale:

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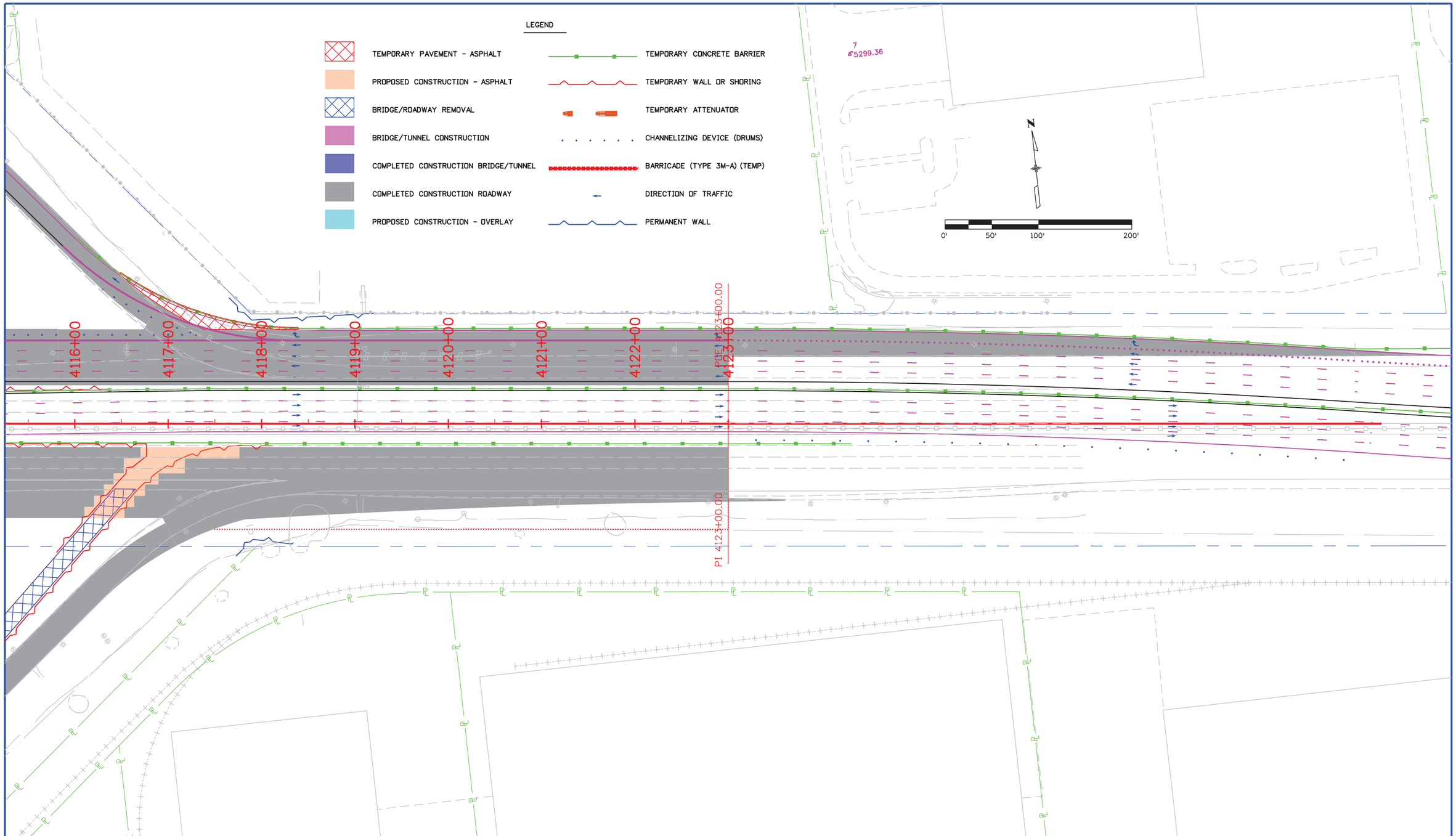
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2B-4

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 49

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_-V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2B-5.dgn
Horiz. Scale: 1:100 Vert. Scale:

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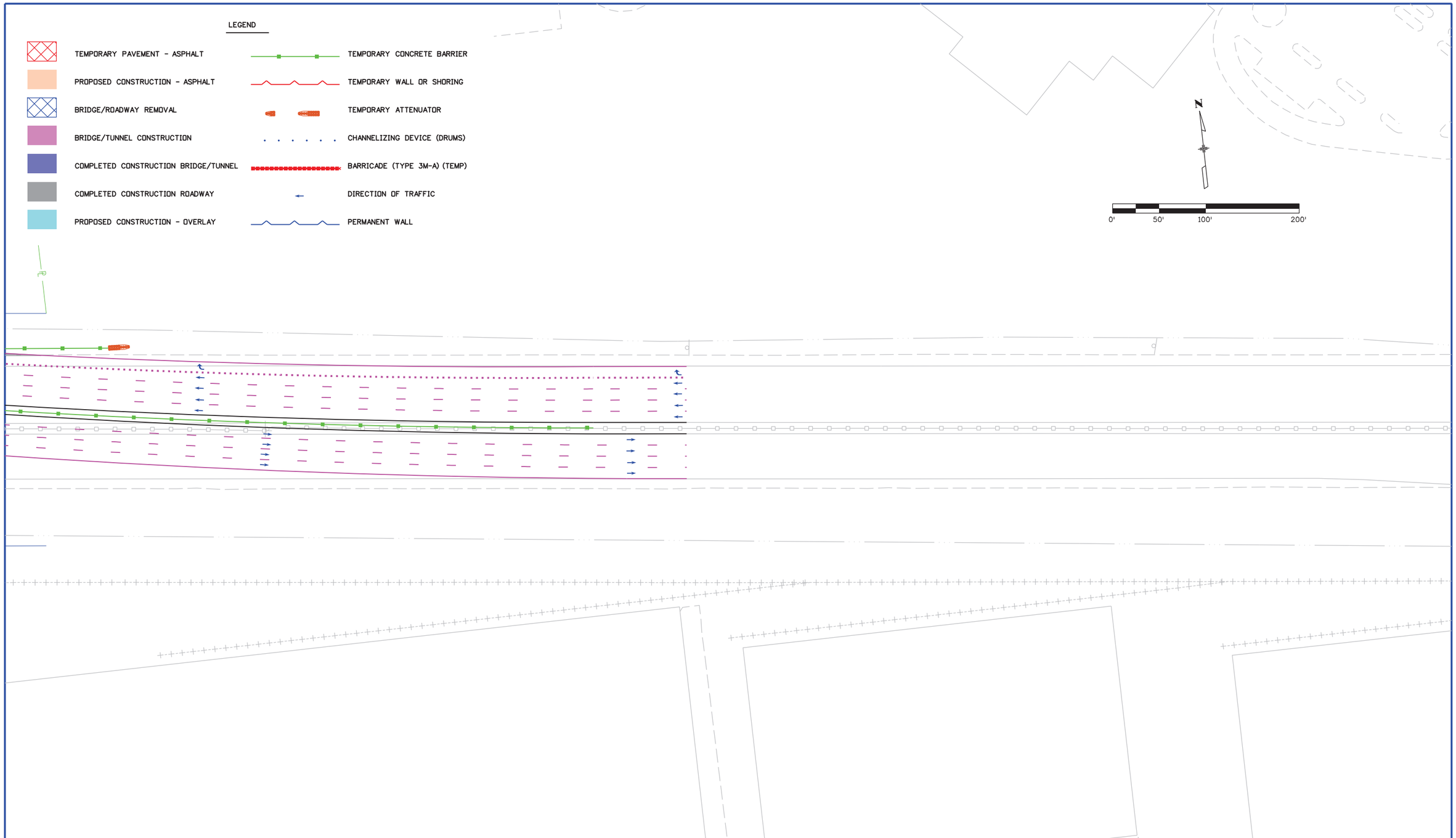
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2B-5

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 50



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-2B-6.dgn
Horiz. Scale: 1:100 Vert. Scale:

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I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 2B-6

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

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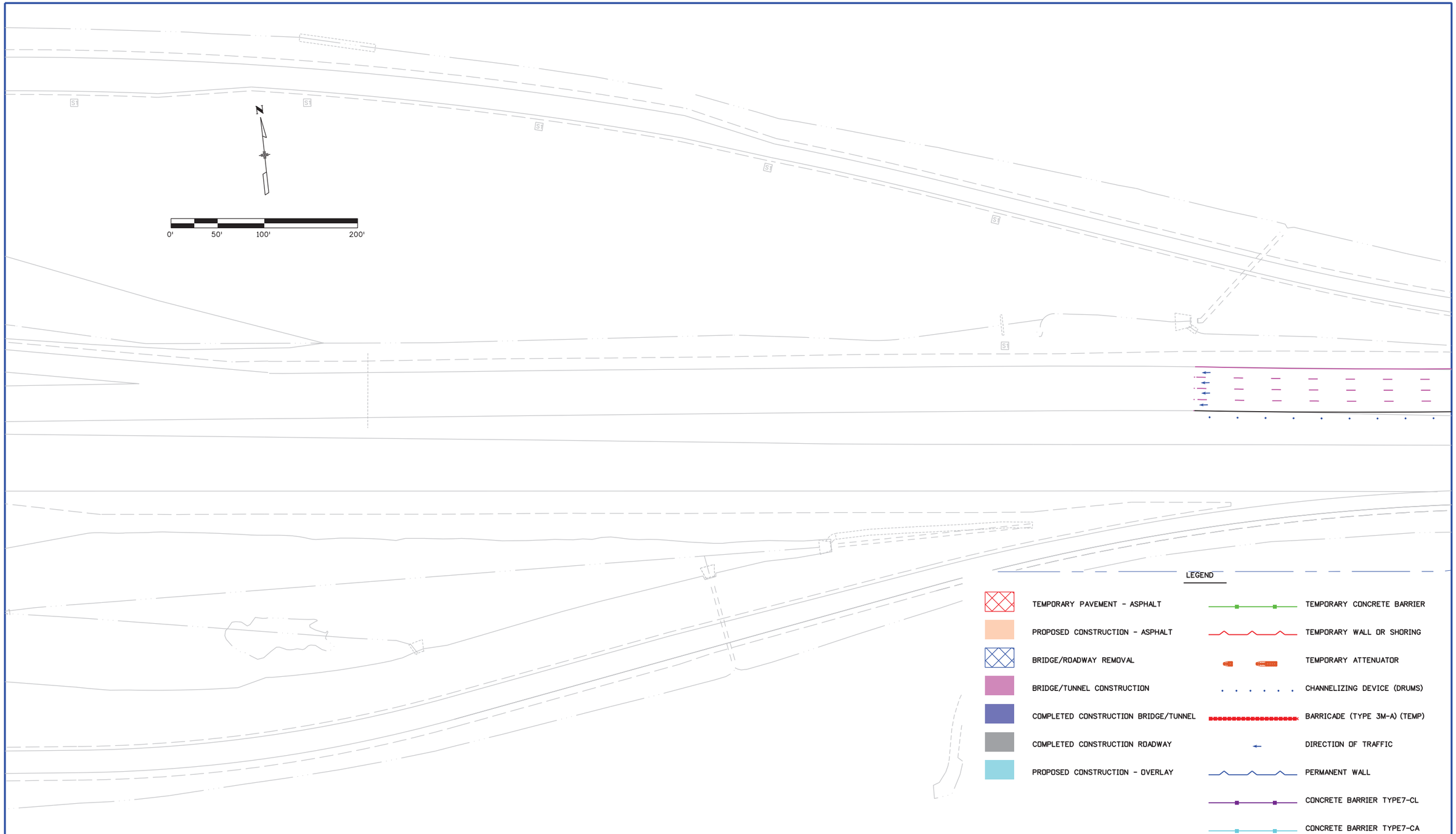
FBR 0704-230
19339(CN)
Sheet Number 51



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-3-1.dgn
Horiz. Scale: 1:100 Vert. Scale:

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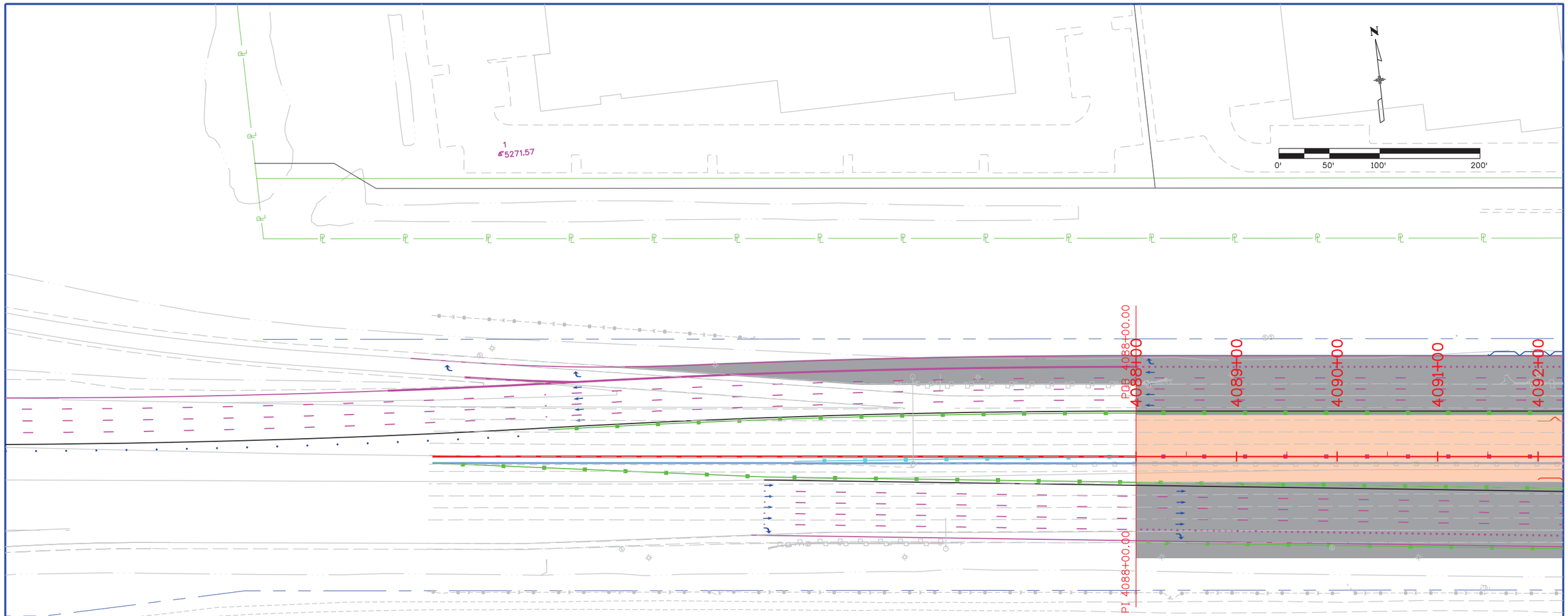
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 3-1

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 52



LEGEND

- TEMPORARY PAVEMENT - ASPHALT
- PROPOSED CONSTRUCTION - ASPHALT
- BRIDGE/ROADWAY REMOVAL
- BRIDGE/TUNNEL CONSTRUCTION
- COMPLETED CONSTRUCTION BRIDGE/TUNNEL
- COMPLETED CONSTRUCTION ROADWAY
- PROPOSED CONSTRUCTION - OVERLAY
- TEMPORARY CONCRETE BARRIER
- TEMPORARY WALL OR SHORING
- TEMPORARY ATTENUATOR
- CHANNELIZING DEVICE (DRUMS)
- BARRICADE (TYPE 3M-A) (TEMP)
- DIRECTION OF TRAFFIC
- PERMANENT WALL
- CONCRETE BARRIER TYPE7-CL
- CONCRETE BARRIER TYPE7-CA

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-3-2.dgn
Horiz. Scale: 1:100 Vert. Scale:

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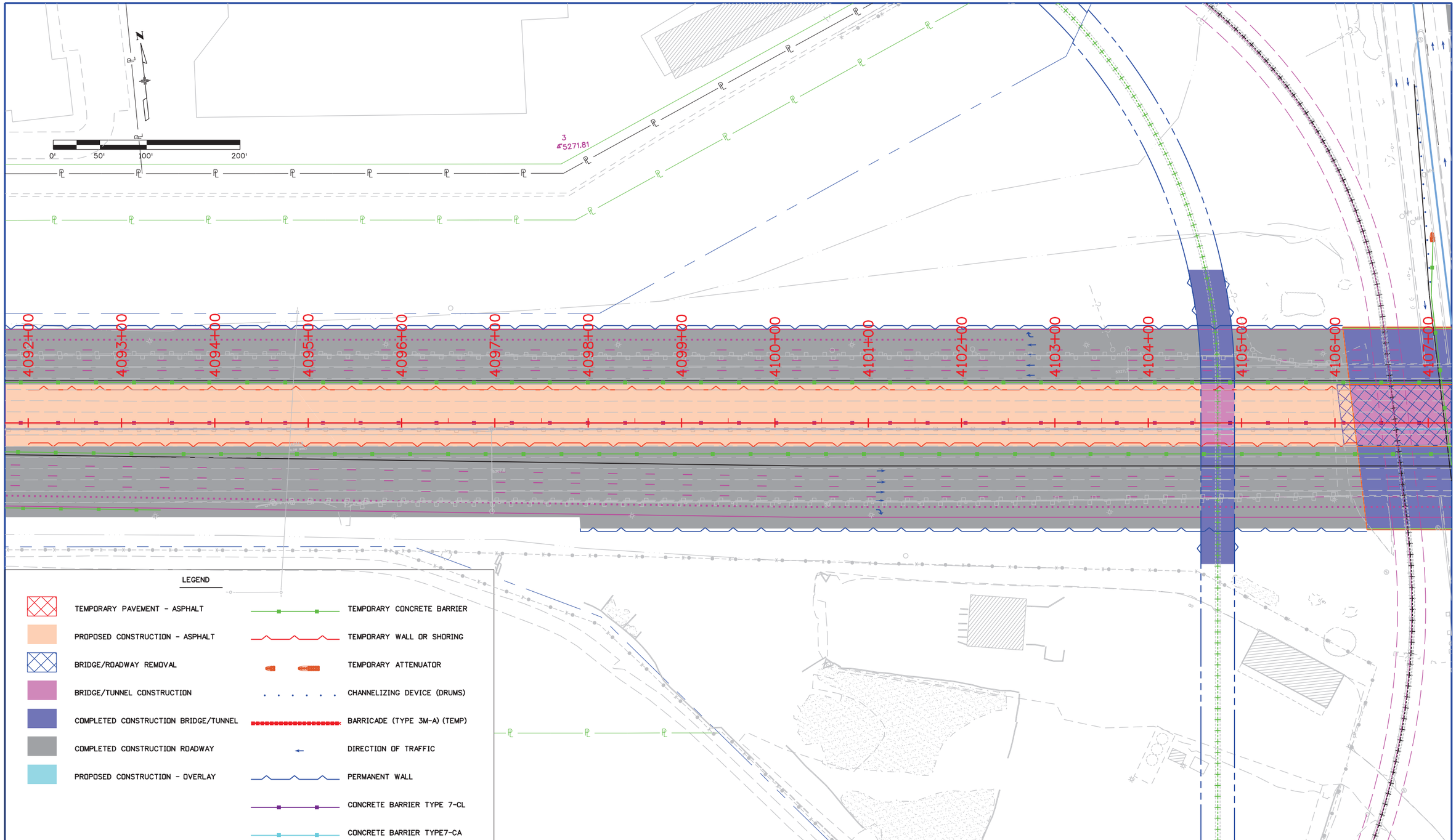
I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 3-2

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

Project No./Code
FBR 0704-230
19339(CN)
Sheet Number 53



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Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-3-3.dgn
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I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 3-3

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

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FBR 0704-230
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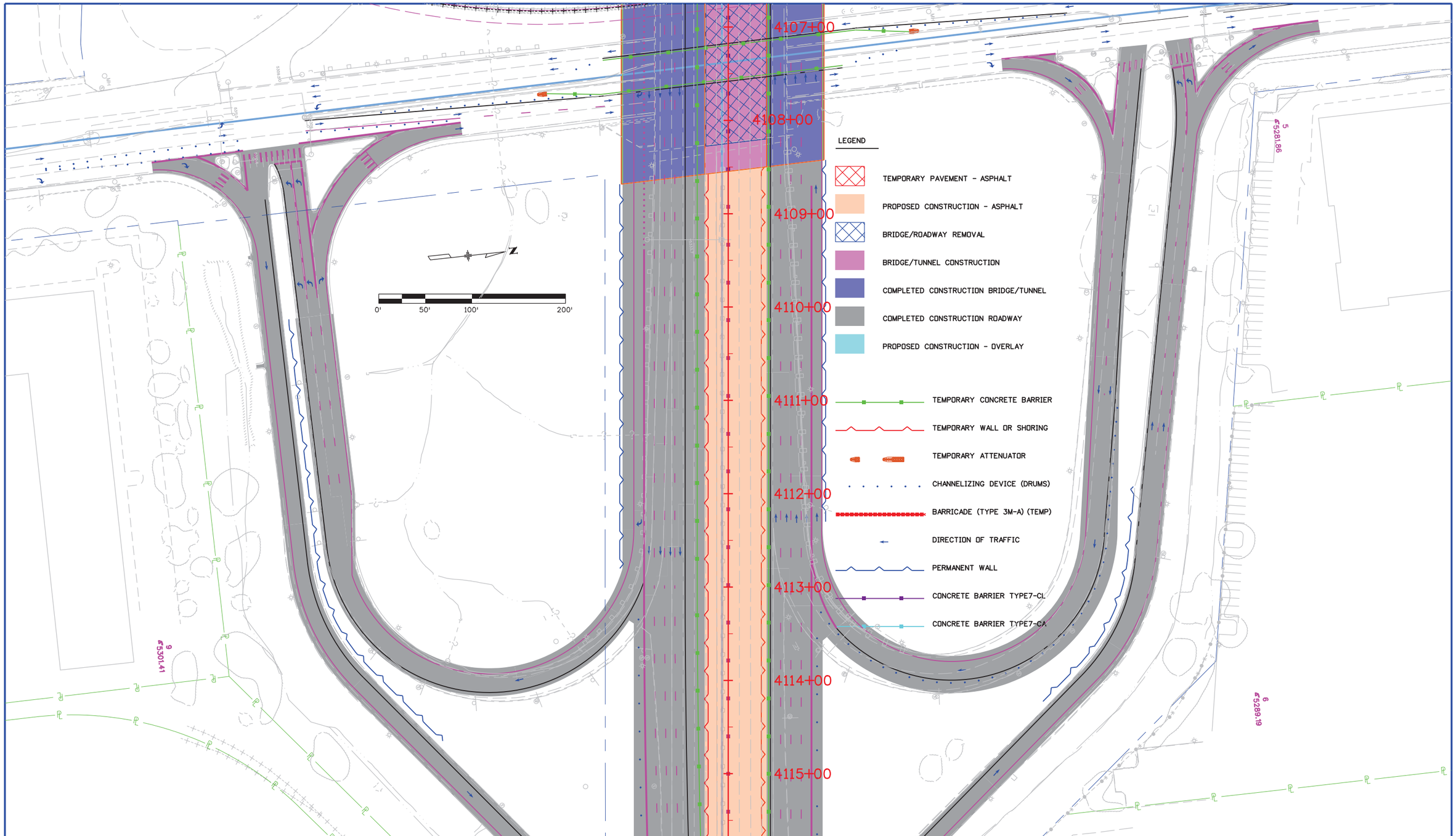

User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-3-4.dgn
Horiz. Scale: 1:100 Vert. Scale:

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I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 3-4

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
Subset Sheets: of

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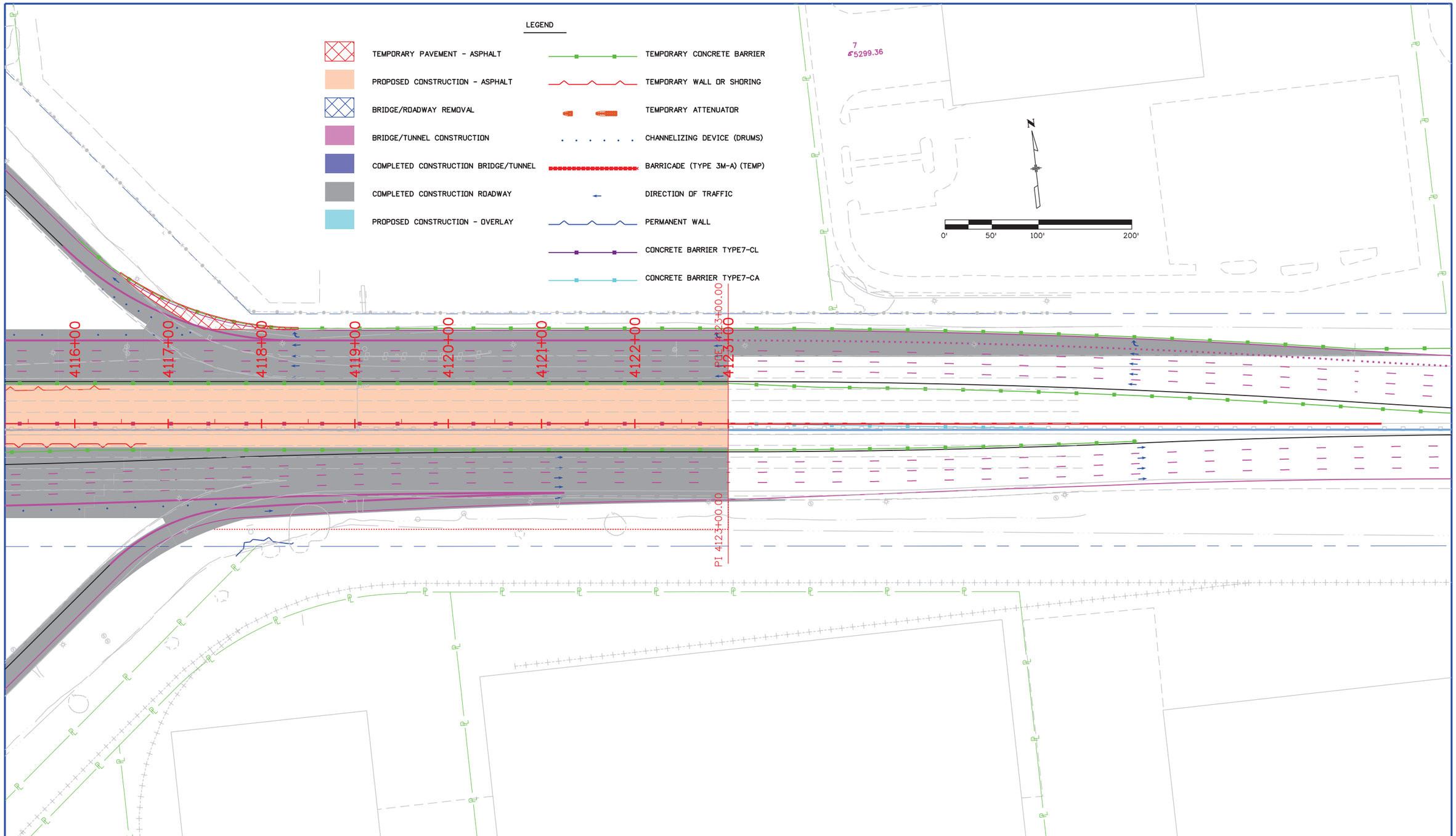

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-3-5.dgn
Horiz. Scale: 1:100 Vert. Scale:

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I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 3-5

Designer: LHA
Detailer: PL
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Project No./Code
FBR 0704-230
19339(CN)
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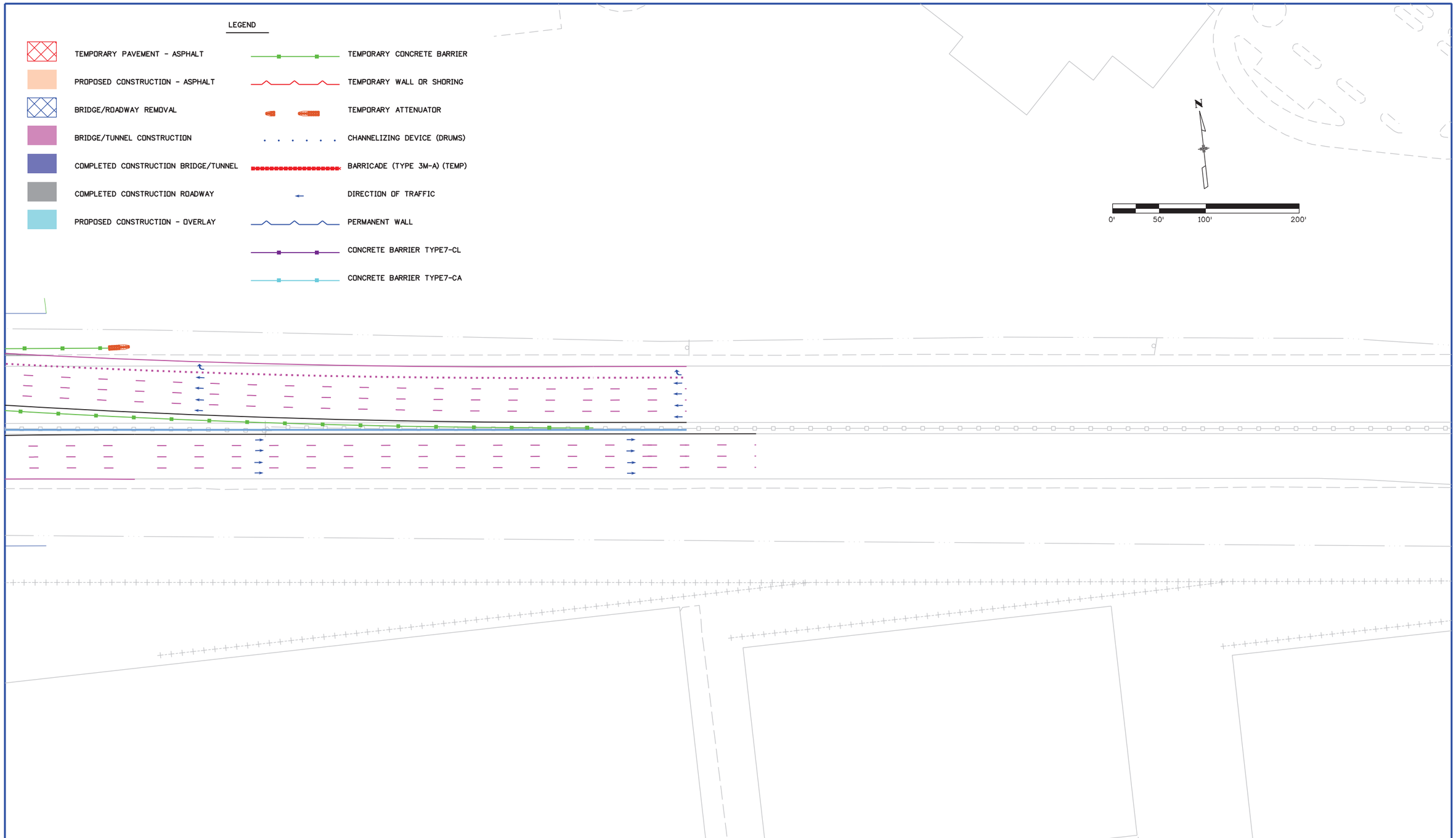
User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_-V8i.pltcfg



User: p0048294 Pen Table: CDOT-ColorPenTablewithYellowtoBlack.tbl Plot Config: CDOT-PDFHighQuality_V8i.pltcfg

Print Date: 7/25/2013
File Name: 19339 MOT-PHASE-3-6.dgn
Horiz. Scale: 1:100 Vert. Scale:

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I-70 OVER HAVANA STREET
DESIGN BUILD
MOT-PHASE 3-6

Designer: LHA
Detailer: PL
Subset:
Structure Numbers
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Project No./Code
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