

Appendix C

NSTIR Standard Details

Sign Size	# of Posts	Post Size	Post Spacing	
			A	B
60 x 30 cm	1	10 x 10 cm	30 cm	
90 x 30 cm	1	10 x 10 cm	45 cm	
60 x 45 cm	1	10 x 10 cm	30 cm	
90 x 45 cm	1	10 x 10 cm	45 cm	
60 x 60 cm	1	10 x 10 cm	30 cm	
90 x 60 cm	1	10 x 10 cm	45 cm	
75 x 75 cm	1	10 x 10 cm	40 cm	
90 x 75 cm	1	10 x 10 cm	45 cm	
90 x 90 cm	1	10 x 10 cm	45 cm	
120 x 30 cm	2	10 x 10 cm	15 cm	90 cm
150 x 30 cm	2	10 x 10 cm	30 cm	90 cm
180 x 30 cm	2	10 x 10 cm	30 cm	120 cm
215 x 30 cm	2	10 x 10 cm	45 cm	120 cm
120 x 45 cm	2	10 x 10 cm	15 cm	90 cm
150 x 45 cm	2	10 x 10 cm	30 cm	90 cm
180 x 45 cm	2	10 x 10 cm	30 cm	120 cm
215 x 45 cm	2	10 x 10 cm	45 cm	120 cm
120 x 60 cm	2	10 x 10 cm	15 cm	90 cm
150 x 60 cm	2	10 x 10 cm	30 cm	90 cm
180 x 60 cm	2	10 x 10 cm	30 cm	120 cm
215 x 60 cm	2	10 x 10 cm	45 cm	120 cm
120 x 75 cm	2	10 x 10 cm	15 cm	90 cm
150 x 75 cm	2	10 x 10 cm	30 cm	90 cm
180 x 75 cm	2	10 x 10 cm	30 cm	120 cm
215 x 75 cm	2	10 x 10 cm	45 cm	120 cm
120 x 90 cm	2	10 x 10 cm	15 cm	90 cm
150 x 90 cm	2	10 x 10 cm	30 cm	90 cm

Sign Size	# of Posts	Post Size	Post Spacing		
			A	B	C
180 x 90 cm	2	10 x 10 cm	30 cm		120 cm
215 x 90 cm	2	10 x 10 cm	45 cm		120 cm
120 x 120 cm	2	10 x 10 cm	15 cm		90 cm
150 x 120 cm	2	10 x 10 cm	30 cm		90 cm
180 x 120 cm	2	10 x 10 cm	30 cm		120 cm
215 x 120 cm	2	10 x 10 cm	45 cm		120 cm
245 x 30 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 45 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 60 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 75 cm	3	10 x 10 cm	30 cm	90 cm	
245 x 90 cm	3	10 x 10 cm	30 cm	90 cm	
275 x 90 cm	3	10 x 10 cm	45 cm	90 cm	
305 x 90 cm	3	15 x 15 cm	30 cm	120 cm	
335 x 90 cm	3	15 x 15 cm	45 cm	120 cm	
365 x 90 cm	3	15 x 15 cm	45 cm	135 cm	
245 x 120 cm	3	15 x 15 cm	30 cm	90 cm	
275 x 120 cm	3	15 x 15 cm	45 cm	90 cm	
305 x 120 cm	3	15 x 15 cm	30 cm	120 cm	
335 x 120 cm	3	15 x 15 cm	45 cm	120 cm	
365 x 120 cm	3	15 x 15 cm	45 cm	135 cm	
395 x 90 cm	4	15 x 15 cm	40 cm	105 cm	105 cm
425 x 90 cm	4	15 x 15 cm	40 cm	115 cm	115 cm
395 x 120 cm	4	15 x 15 cm	40 cm	105 cm	105 cm
425 x 120 cm	4	15 x 15 cm	40 cm	115 cm	115 cm
455 x 120 cm	4	15 x 15 cm	40 cm	125 cm	125 cm
485 x 120 cm	4	15 x 15 cm	40 cm	135 cm	135 cm

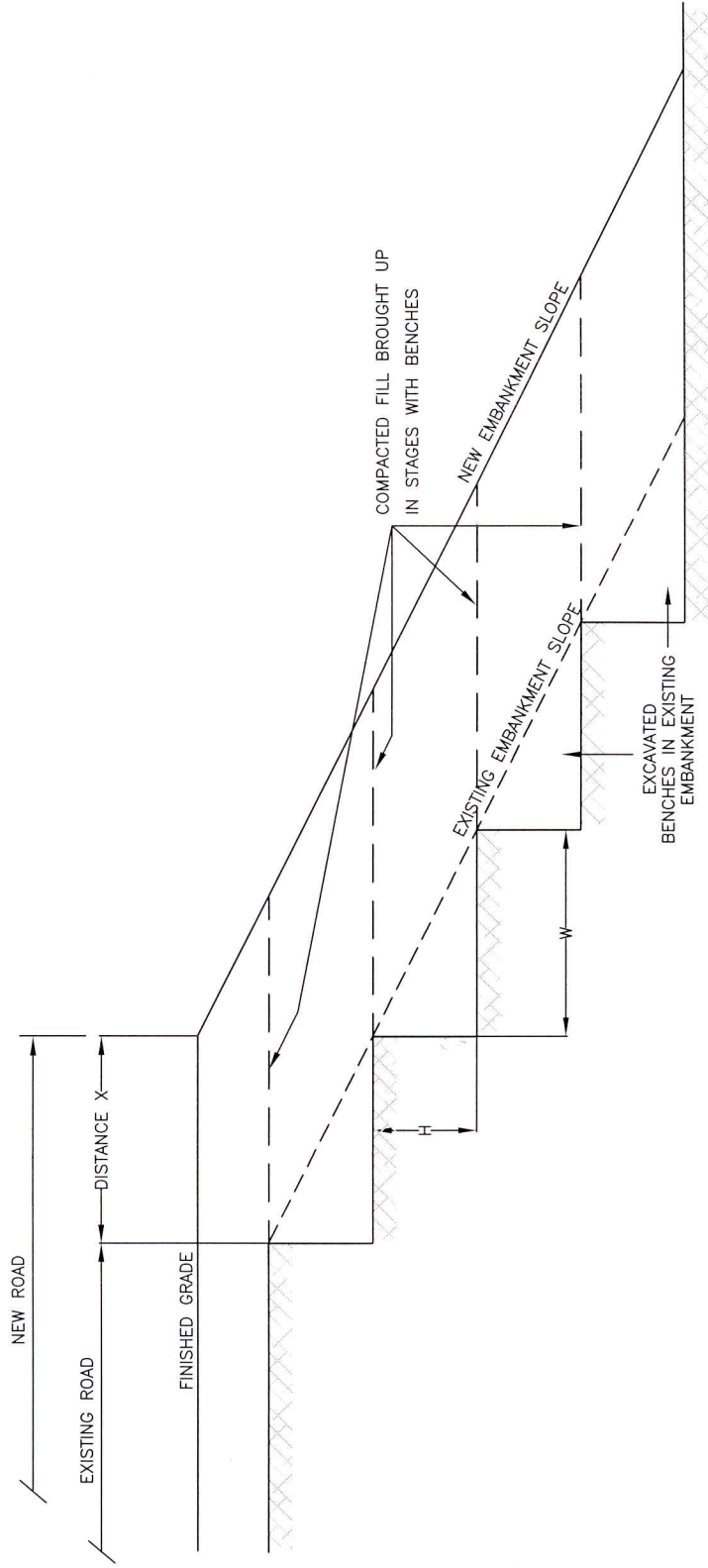
NOTES:

Scale : N.T.S.
Drawn by : J.MACINTOSH/B.STORRIE
Checked by : P.HILL
Date of Plan : MAY 2011
File No. : S-2011-101

No. REVISION

[Signature]
Manager, Traffic Engineering Services
[Signature]
Director, Highway Engineering Services
[Signature]
Executive Director, Highway Engineering and Construction

WOOD SIGN STRUCTURE POST SPACING CHART



MAXIMUM BENCH HEIGHT & WIDTH DIMENSIONS			
EXISTING SLOPES	FILLS $\geq 4.0\text{m}$	FILLS $< 4.0\text{m}$	
3:1 TO 2:1	W=2.5m H=VARIES	W=1.25m H=VARIES	
2:1	W=VARIES H=1.25m	W=VARIES H=0.75m	

NOTES:

1. THIS STANDARD APPLIES TO WIDENING OF EMBANKMENTS WHEN DISTANCE $X \geq 1.0\text{m}$ AT FINISHED GRADE LEVEL OF NEW ROADBED.
2. BENCHING NOT REQUIRED ON SLOPES FLATTER THAN 3:1 OR WHERE FIELD CONDITIONS SHOW IT UNNECESSARY AS DETERMINED BY THE ENGINEER.
3. BENCHES TO BE EXCAVATED ONE LEVEL AT A TIME AND COMPACTED FILL BROUGHT UP BEFORE NEXT LEVEL IS EXCAVATED.

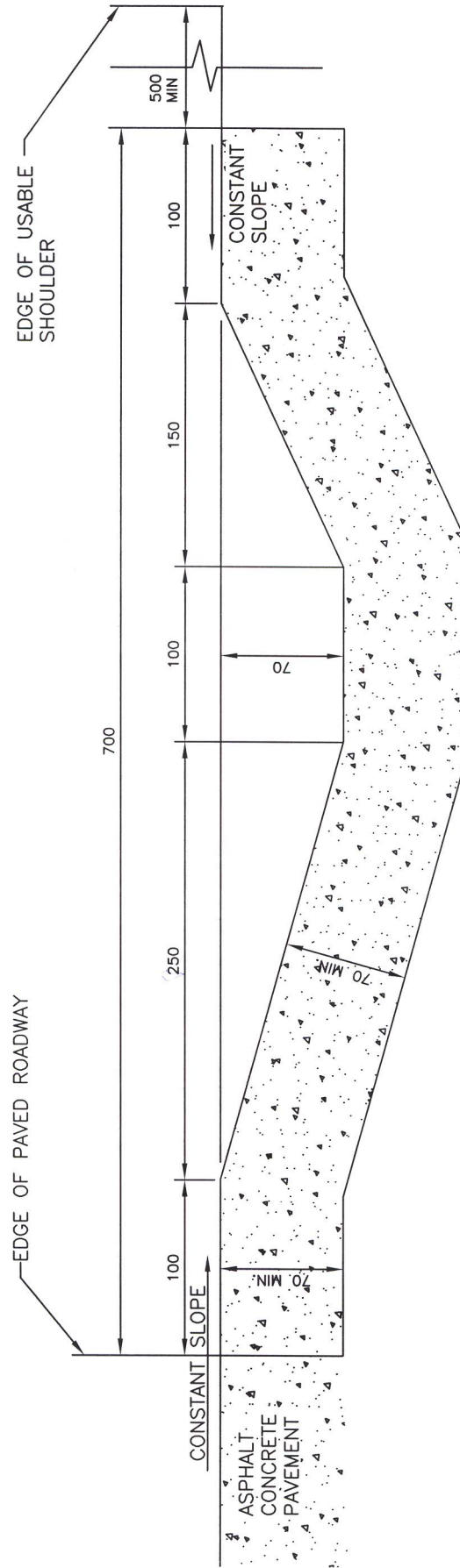
Philip Cohen
Manager Highway Planning and Design

[Signature]
Director Highway Engineering Services

[Signature]
Executive Director Highway Engineering and Construction

BENCHING OF EMBANKMENT SLOPES

Scale : N.T.S.
Drawn by : M.LABRECHE
Checked by : K.BODDY
Date of Plan : AUG2009
File No. : S-2009-016



NOTES:

NOTES:

1. OFFTAKЕ GUTTERS ARE TO BE CONSTRUCTED AT LOCATIONS SPECIFIED BY THE ENGINEER AND ARE TO EXTEND TO THE EDGE OF SHOULDER AND DOWN THE SLOPE 1m MINIMUM.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Manager Highway Planning and Design

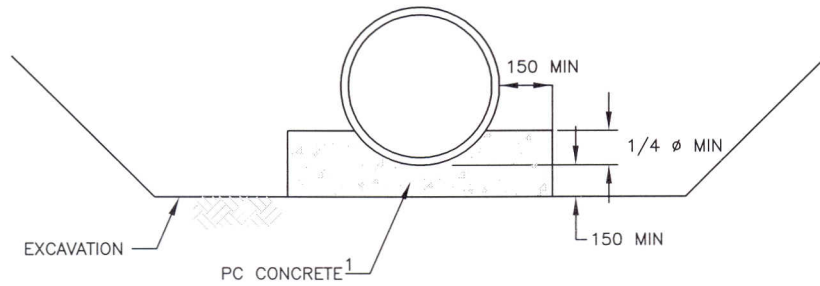
ASPHALT CONCRETE GUTTER HS-403

Scale : N.T.S.
 Drawn by : M.LABRECHE
 Checked by : K.BODDY
 Date of Plan : AUG2009
 File No. : S-2009-02

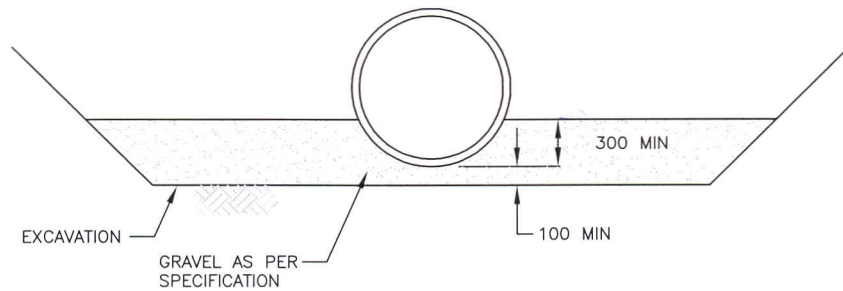
1	HS #	ADDED TO TITLE	
No.	REVISION		



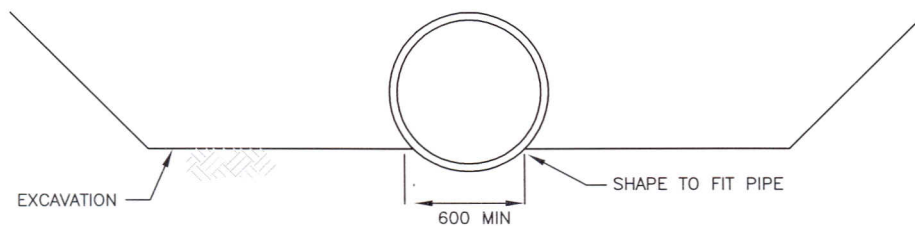
NOVA SCOTIA
Transportation and Infrastructure Renewal



CLASS A BEDDING



CLASS B BEDDING



CLASS C BEDDING

NOTES:

1. CRUSHED STONE OR GRAVEL INSTEAD OF CONCRETE PERMITTED ON ROCK FOUNDATION WITH METHOD OF LAYING AS PER CLASS B BEDDING.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

Scale : N.T.S.
 Drawn by : M.LABRECHE
 Checked by : W.DEVEAU
 Date of Plan : AUG2009
 File No. : S-2009-051

Philip Cohen
 Manager Highway Planning and Design

W. Deveau
 Director Highway Engineering Services

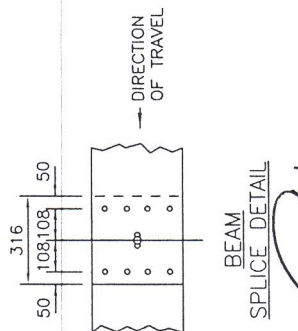
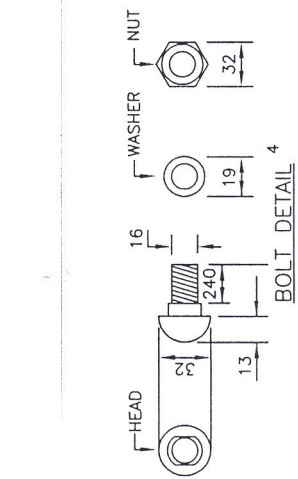
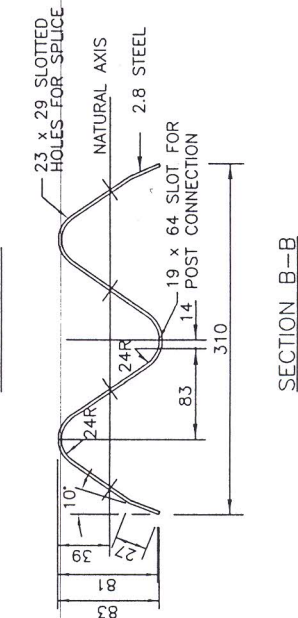
Philip Cohen
 Executive Director Highway Engineering and Construction

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Transportation and Infrastructure Renewal

No. REVISION

BEDDING FOR CONCRETE PIPE
HS506



NOTES:

1. FOR STRONG POST SYSTEM, ADD POST AT POINT X.
2. IF 150 x 200 x 2100 LONG POSTS ARE USED, THE MATERIAL IS TO BE HARDWOOD.
3. TERMINAL SECTION ONLY APPROPRIATE FOR 4-LANE DIVIDED HIGHWAYS.
4. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED BY THE HOT DIP PROCESS. BOLTS SHALL BE CAPABLE OF WITHSTANDING 106 KN IN SINGLE SHEAR. 16mm SQUARENUT AND 19mm ROUND WASHERS ARE TO BE USED. ONE WASHER FOR EACH 240mm x 16mm BOLT. BOLTS ARE TO HAVE 75mm THREADS
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

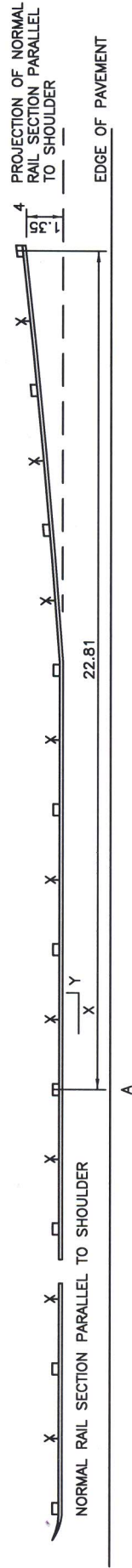


Scale : N.T.S.
 Drawn by : M.LABRECHE
 Checked by : J.RAE
 Date of Plan : AUG2009
 File No. : S-2009-071

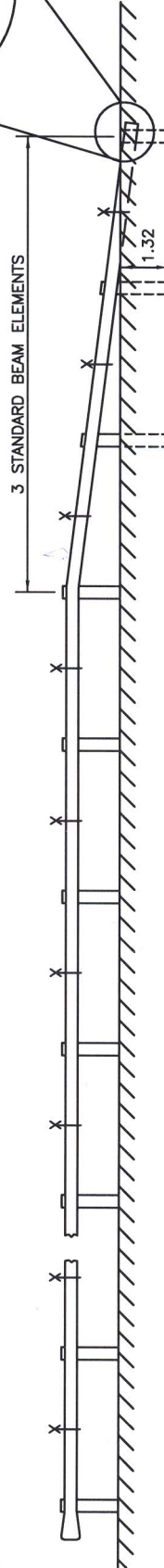
	2	BEAM SPL	
	1	DETAILS, N	
	No.	REVISION	

GUARD RAIL AND POST DETAILS
HS518

POST OFFSET TABLE		
FILL OR CUT		
X	Y ³	
3.81	0.04	
7.62	0.15	
11.42	0.34	
15.22	0.60	
19.02	0.94	
22.81	1.35	



PLAN - FILL OR CUT
DIVIDED HIGHWAY⁵



ELEVATION
DIVIDED HIGHWAY⁵

1. FOR STRONG POST SYSTEM, ADD POST AT POINT "X"
2. THIS STANDARD DRAWING IS NOT APPLICABLE TO NEW 100 SERIES HIGHWAY CONSTRUCTION WHERE ENERGY ABSORBING GUARD RAIL TERMINALS (EAGRT) SYSTEMS ARE SPECIFIED.
3. MEASURED FROM FACE OF RAIL BASED ON NORMAL RAIL SECTION PARALLEL TO SHOULDER AT A.
4. GUARD RAIL MAY BE PLACED AS PRACTICABLE FROM EDGE OF SHOULDER. IN NO CASE MAY GUARD RAIL BE PLACED DOWN THE SLOPE.
5. FOR 2-LANE/ 2-WAY ROADWAYS, BURY BOTH ENDS OF GUARD RAIL.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.


No.	REVISION
4	Addition of EAGRT note - Feb 12
3	Addition of post bury depth - FEB 11
2	Addition of "X" for strong post system
1	Notes, Titles - Feb 10

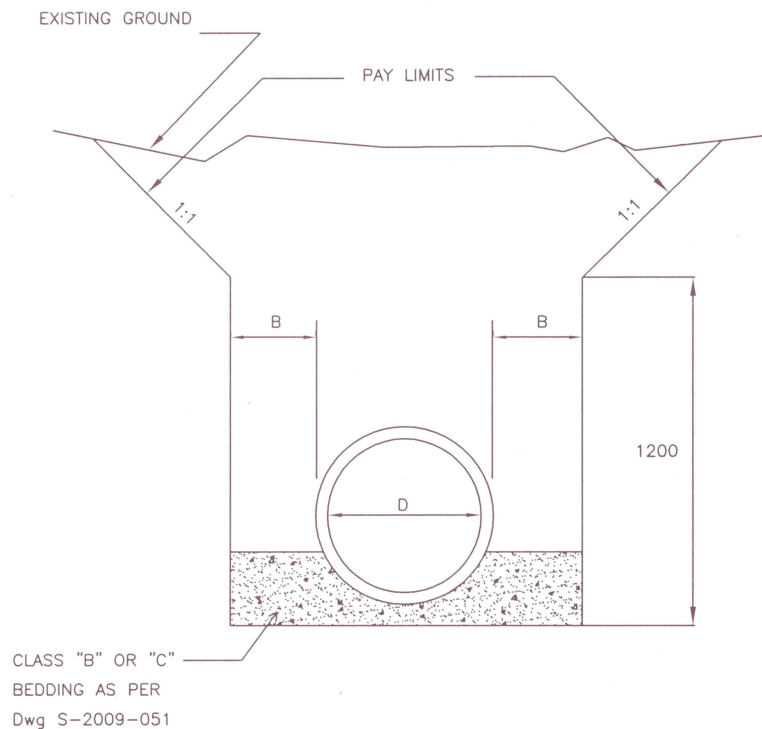
Scale : N.T.S.
Drawn by : M.LABRECHE
Checked by : J.RAE
Date of Plan : AUG2009
File No. : S-2009-072

NOVA SCOTIA
Transportation and Infrastructure Renewal

David Cohen
Manager Highway Planning and Design
David Cohen
Director Highway Engineering Services
David Cohen
Executive Director Highway Engineering and Construction

STEEL BEAM GUARD RAIL
END TREATMENT HS520

 NOVA SCOTIA Transportation and Infrastructure Renewal	4	Moved note 4 and 5 under headings – Jan 12	Scale :	N.T.S.
	3	Length of installation note – Aug 11	Drawn by :	M.LABRECHE
	2	Addition of Note 4 and 5 – Feb 11	Checked by :	J.RAE
	1	SEC A-A, Notes – Feb 10	Date of Plan :	AUG2009
	No.	REVISION	File No. :	S-2009-073



PIPE DIAMETER, D (INSIDE)	DIMENSION B
UP TO 500	300
501 TO 1200	400
OVER 1200 OR ANY OTHER PRECAST SECTION	500

NOTES:

1. THE CROSS SECTION REPRESENTS MAXIMUM PAY LIMITS FOR FOUNDATION EXCAVATION. IF THE BOTTOM WIDTH IS LESS OR IF THE SIDE SLOPES ARE STEEPER THAN INDICATED, THE SECTIONAL AREA WILL BE COMPUTED ACCORDINGLY.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

Scale : N.T.S.
 Drawn by : M.W.L.
 Checked by :
 Date of Plan : Sept. 2009
 File No. : S-2009-144

Paul Colburn
 Manager Highway Planning and Design

[Signature]
 Director Highway Engineering Services

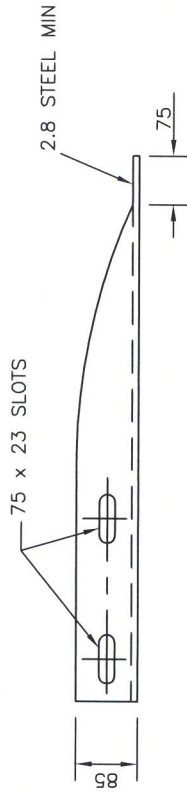
[Signature]
 Executive Director Highway Engineering and Construction

NOVA SCOTIA

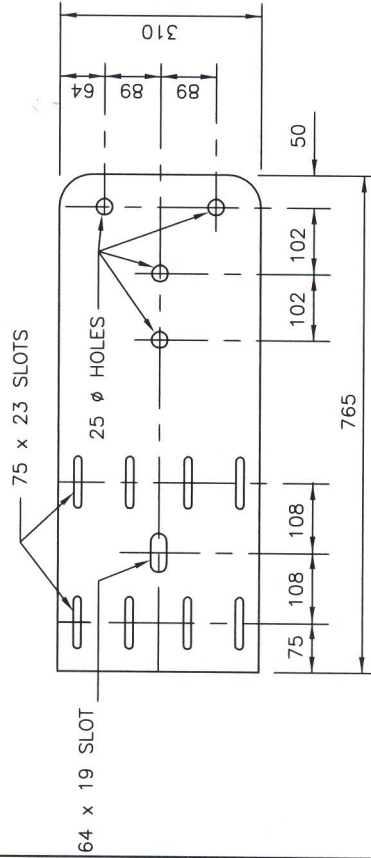
Transportation and Infrastructure Renewal

No.	1	HS # ADDED TO TITLE
REVISION		

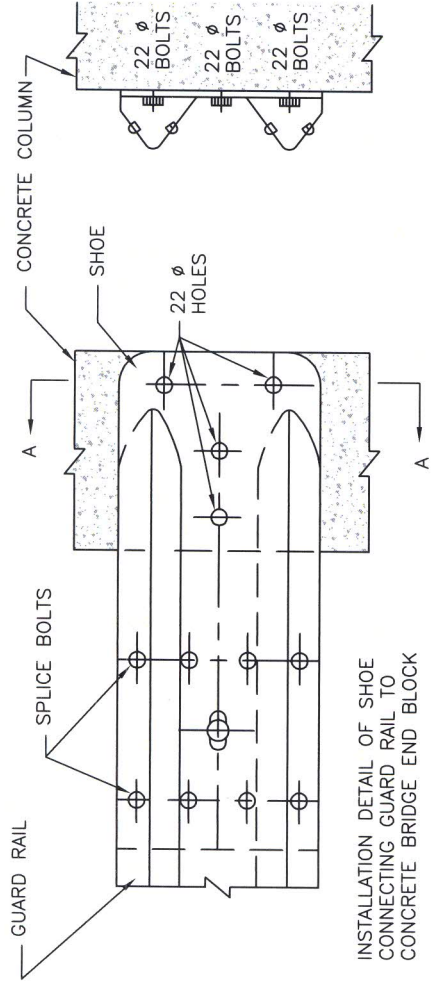
**FOUNDATION EXCAVATION LIMITS
FOR CULVERTS HS-528**



PLAN DETAIL OF SHOE



ELEVATION DETAIL OF SHOE



ELEVATION DETAIL OF INSTALLED SHOE

SECTION A-A

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

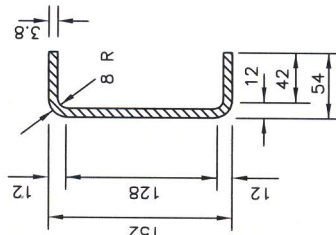
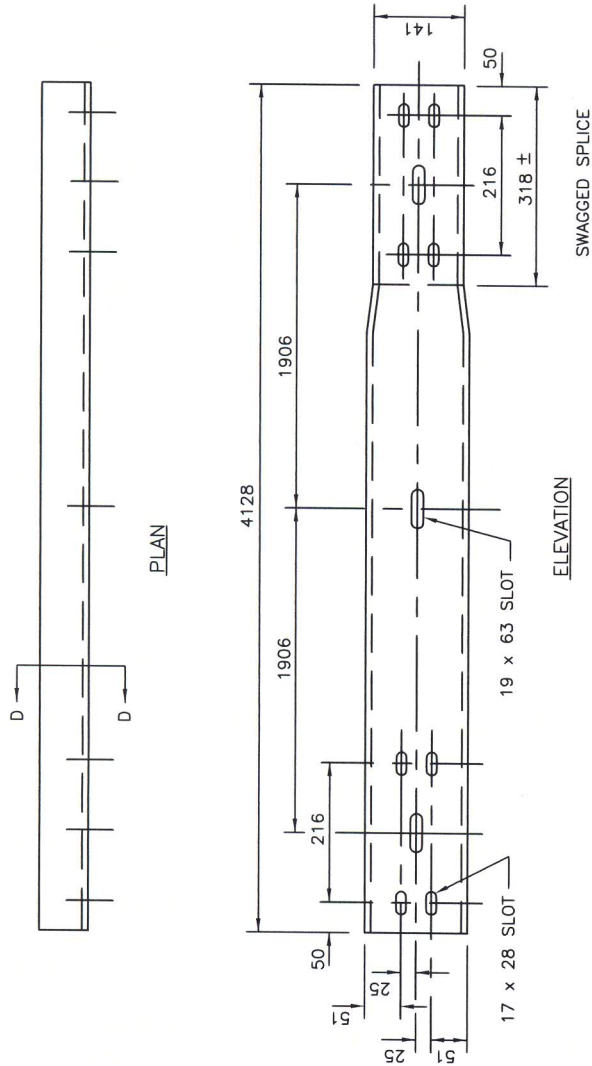
NOVA SCOTIA
Transportation and Infrastructure Renewal

Scale : N.T.S.
Drawn by : M.LABRECHE
Checked by : J.RAE
Date of Plan : AUG2009
File No. : S-2009-074

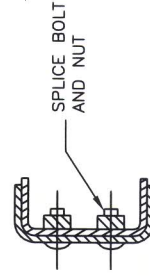
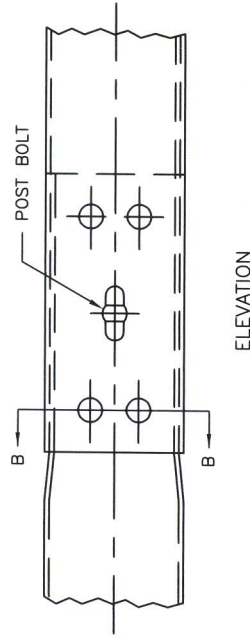
No.	REVISION
1	"HS" # ADDED TO TITLE

Bob L. Labreche
Manager Highway Planning and Design
Bob L. Labreche
Director Highway Engineering Services
Bob L. Labreche
Executive Director Highway Engineering and Construction

MICHIGAN SHOE DETAIL
HS522



COLD ROLLED CHANNEL DETAIL




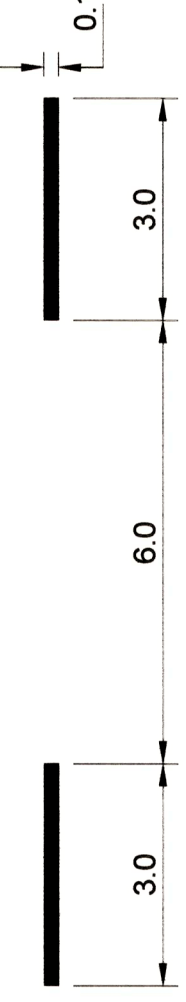
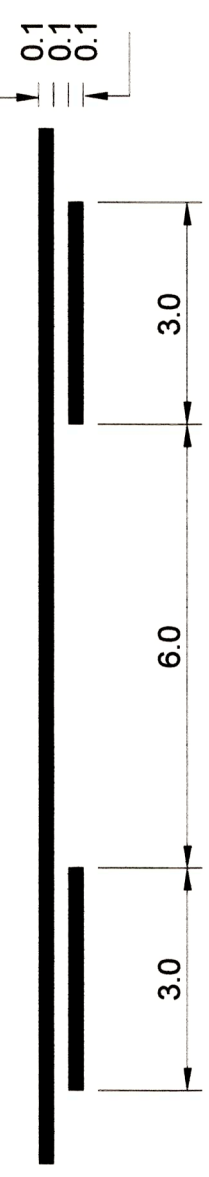
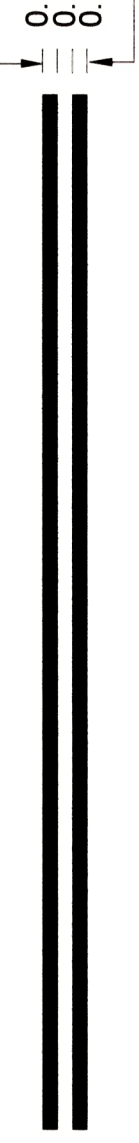

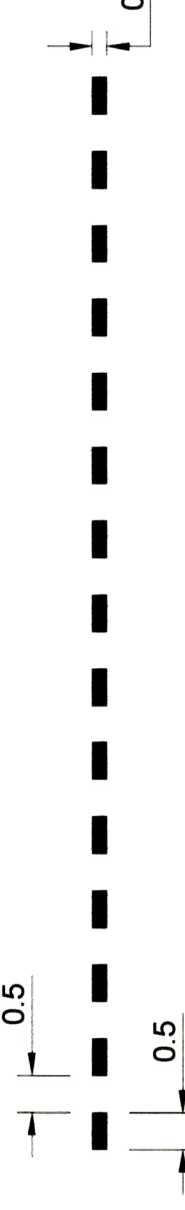
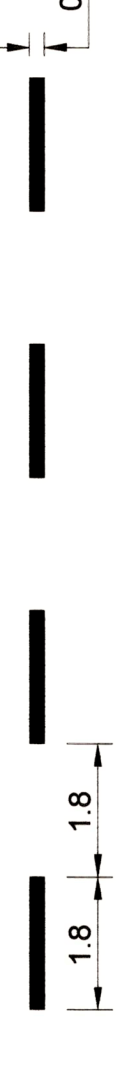


SECTION B-B

SWAGGED SPLICE DETAIL


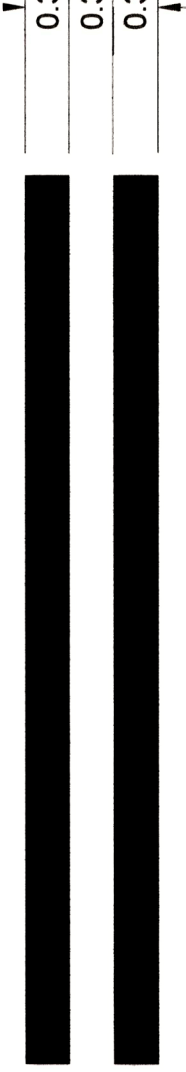
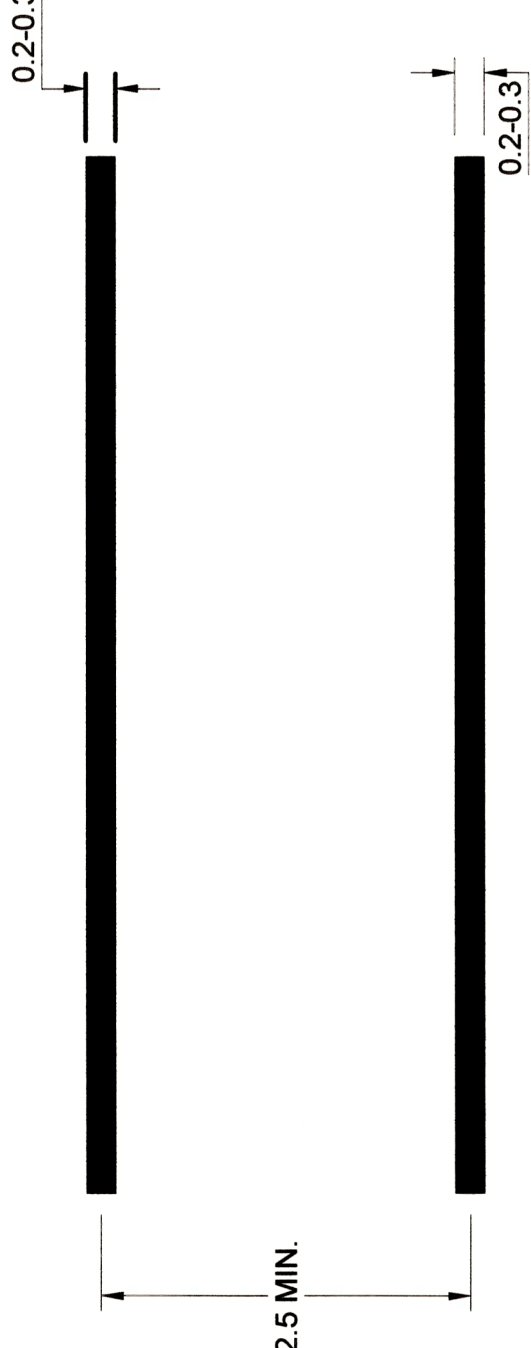
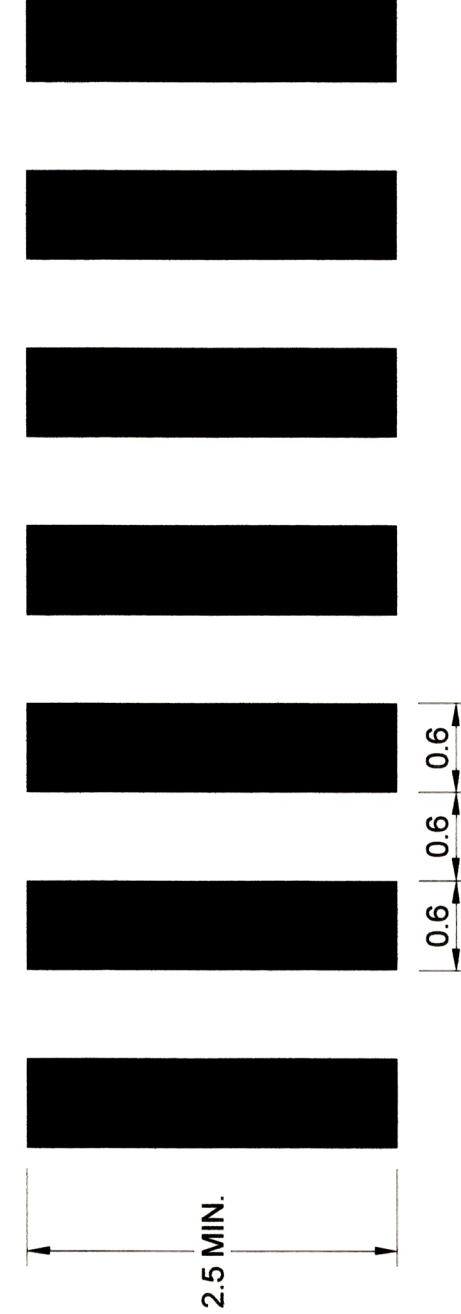


NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

B. Bilal
Manager Highway Planning and Design
M. Labreche
Director Highway Engineering Services
J. Rae
Executive Director Highway Engineering and Construction

PATTERNS OF LONGITUDINAL LINES


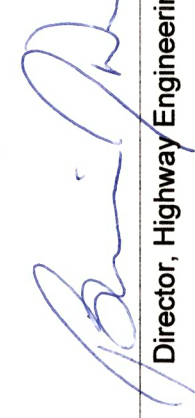
NAME OF LINE	DIMENSIONS (m)	USE
SOLID		<ul style="list-style-type: none">EDGELINES (WHITE OR YELLOW)DIRECTIONAL DIVIDING LINES (YELLOW)LANE LINES PROHIBITING LANE CHANGES (WHITE)
BROKEN		<ul style="list-style-type: none">DIRECTIONAL DIVIDING LINES (YELLOW)LANE LINES (WHITE)
SIMULTANEOUS SOLID AND BROKEN		<ul style="list-style-type: none">DIRECTIONAL DIVIDING LINES (YELLOW)TWO-WAY LEFT TURN LANES (YELLOW)
DOUBLE SOLID		<ul style="list-style-type: none">DIRECTIONAL DIVIDING LINES (YELLOW)
WIDE SOLID		<ul style="list-style-type: none">EDGELINES AT GORE AREAS OF 100 SERIES HIGHWAYS AND IN OTHER CRITICAL AREAS (WHITE ON RIGHT, YELLOW ON THE LEFT)
DASHED 0.5m		<ul style="list-style-type: none">GUIDING LINES (E.G. INTERSECTION MOVEMENTS) (YELLOW OR WHITE BASED ON THE COLOUR OF LINE BEING EXTENDED)
DASHED 1.8m		<ul style="list-style-type: none">LANE LINES IN ROUNDABOUTS (WHITE)
DASHED 3.0m		<ul style="list-style-type: none">CONTINUITY LINES IN MERGING AND DIVERGING AREAS (WHITE)LANE LINES FOR LEFT TURN AND RIGHT TURN BAYS AND TAPERS (WHITE)
WIDE DASHED 3.0m		<ul style="list-style-type: none">CONTINUITY LINES IN MERGING AND DIVERGING AREAS ON 100 SERIES HIGHWAYS (WHITE)

PATTERNS OF TRANSVERSE LINES

NAME OF LINE	DIMENSIONS (m)	USE
STOP		<ul style="list-style-type: none">INTERSECTION STOP LINES (WHITE)
DOUBLE STOP BAR		<ul style="list-style-type: none">RAILWAY CROSSINGS (WHITE) (OPTIONAL SEE S-2013-312 FOR CONDITIONS)
PARALLEL CROSSWALK		<ul style="list-style-type: none">PEDESTRIAN CROSSWALKS (WHITE)
ZEBRA CROSSWALK		<ul style="list-style-type: none">SCHOOL CROSSWALKS (WHITE)MID-BLOCK CROSSWALKS (WHITE) MUST BE APPLIED USING HIGH FRICTION MATERIAL
ROUNDABOUT YIELD BAR 0.6 m		<ul style="list-style-type: none">ROUNDABOUT YIELD BAR FOR SINGLE LANE ENTRY (WHITE)
ROUNDABOUT YIELD BAR 1.8 m		<ul style="list-style-type: none">ROUNDABOUT YIELD BAR FOR MULTI-LANE ENTRY (WHITE)

(ADAPTED FROM MUTCDC FIGURE C1-1)

Designed by: _____
Surveyed by: _____
Drawn by: R. Hird
Checked by: P. Hill
Approved by: _____


Manager Traffic Engineering and Road Safety

Director, Highway Engineering Services

Dec 9 2014
Date
Dec 9 2014
Date

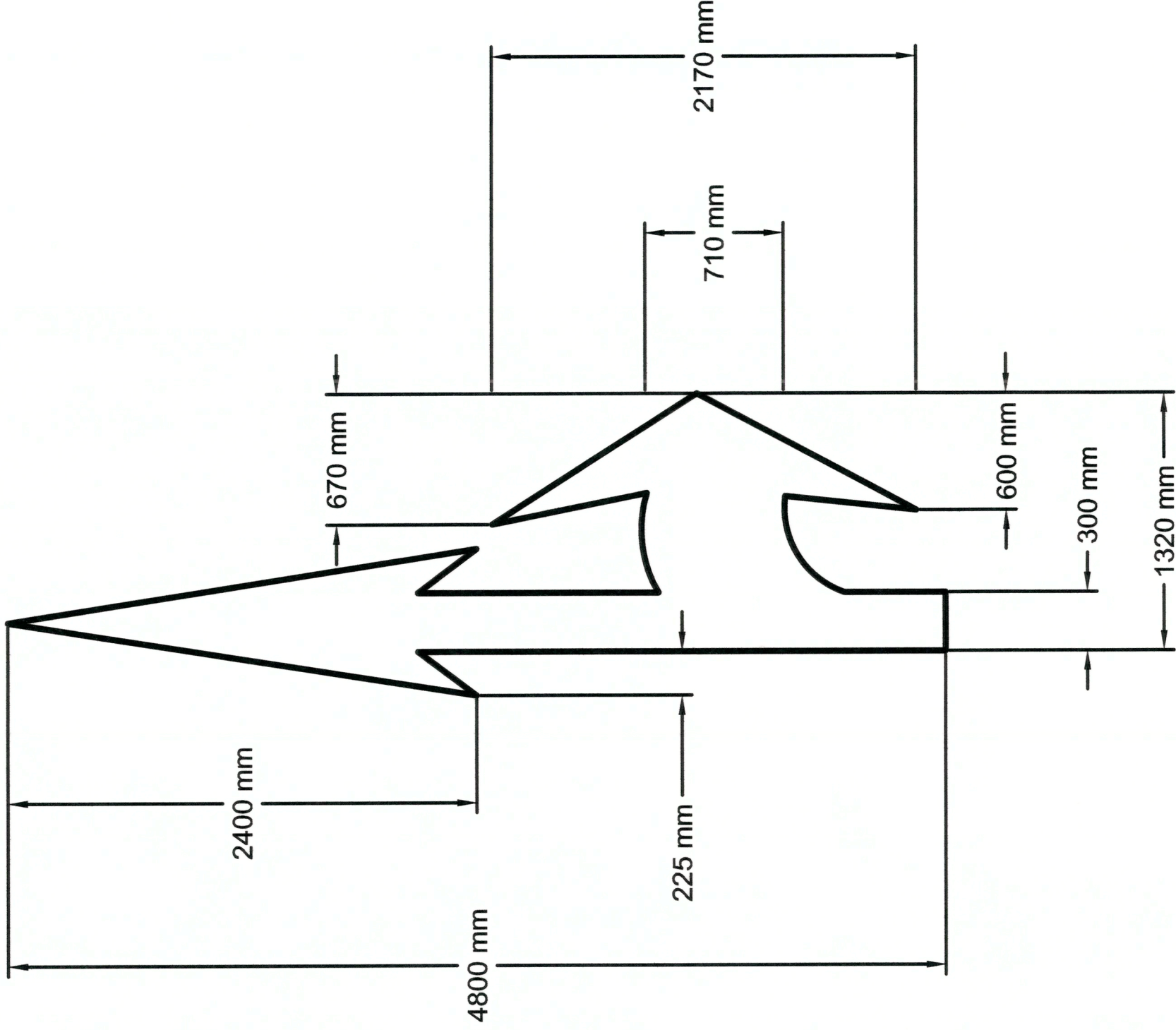
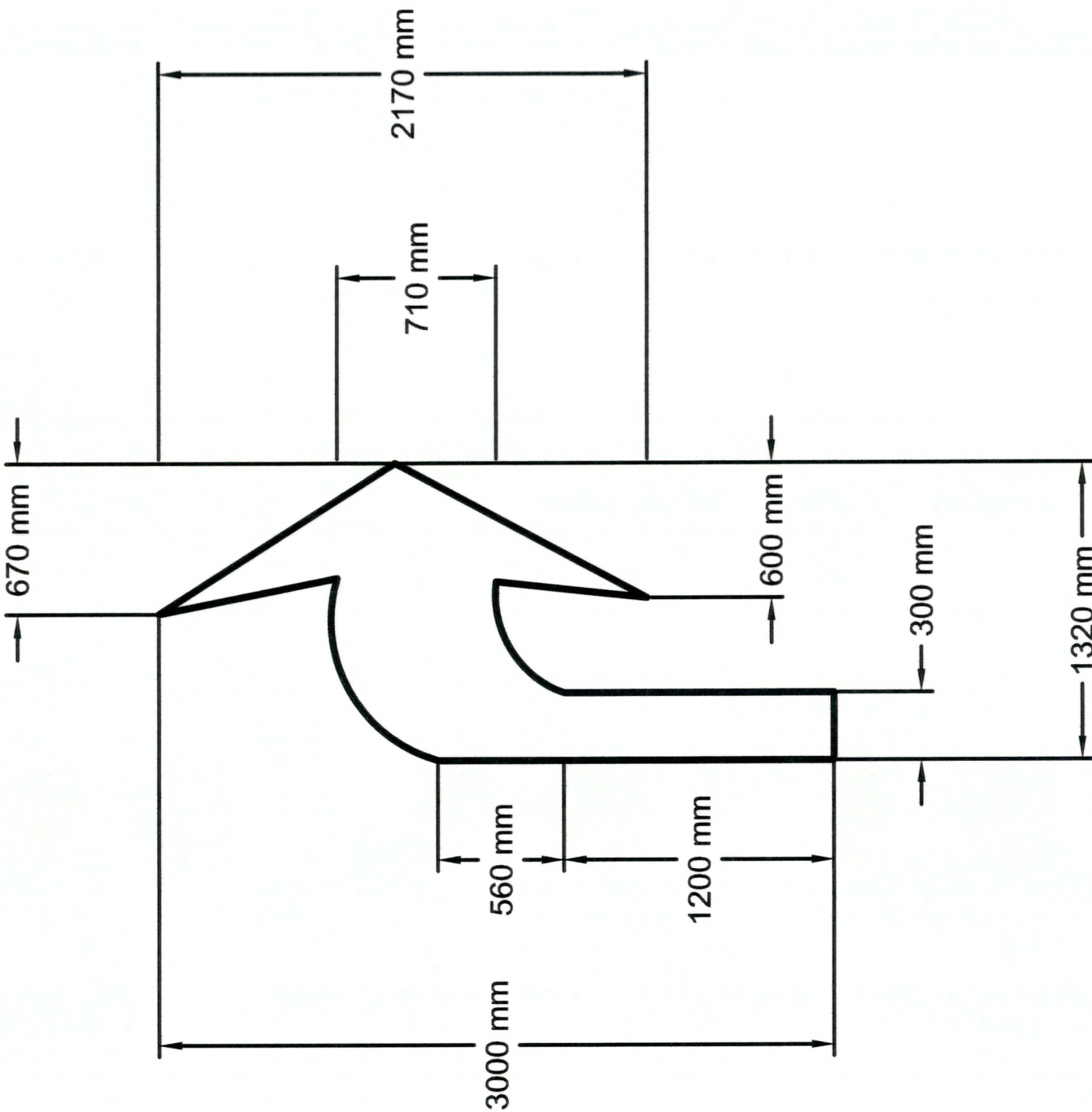
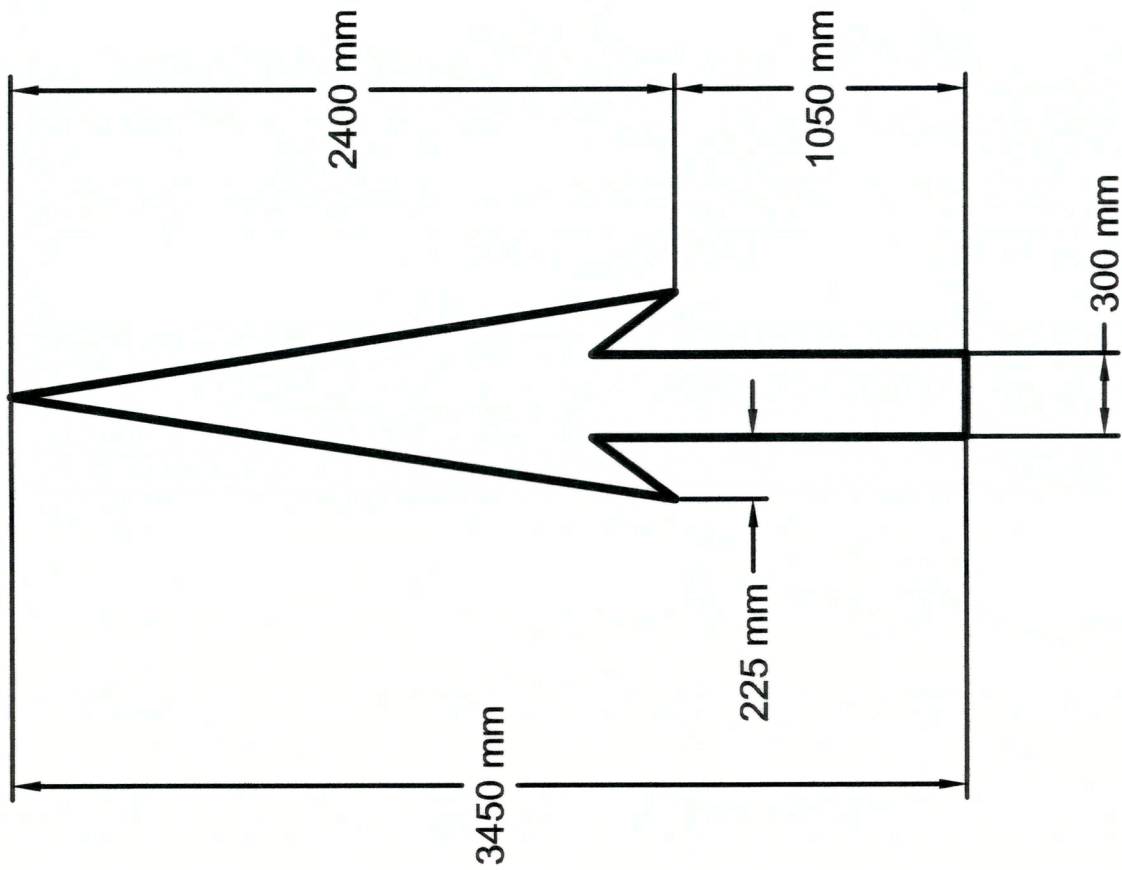
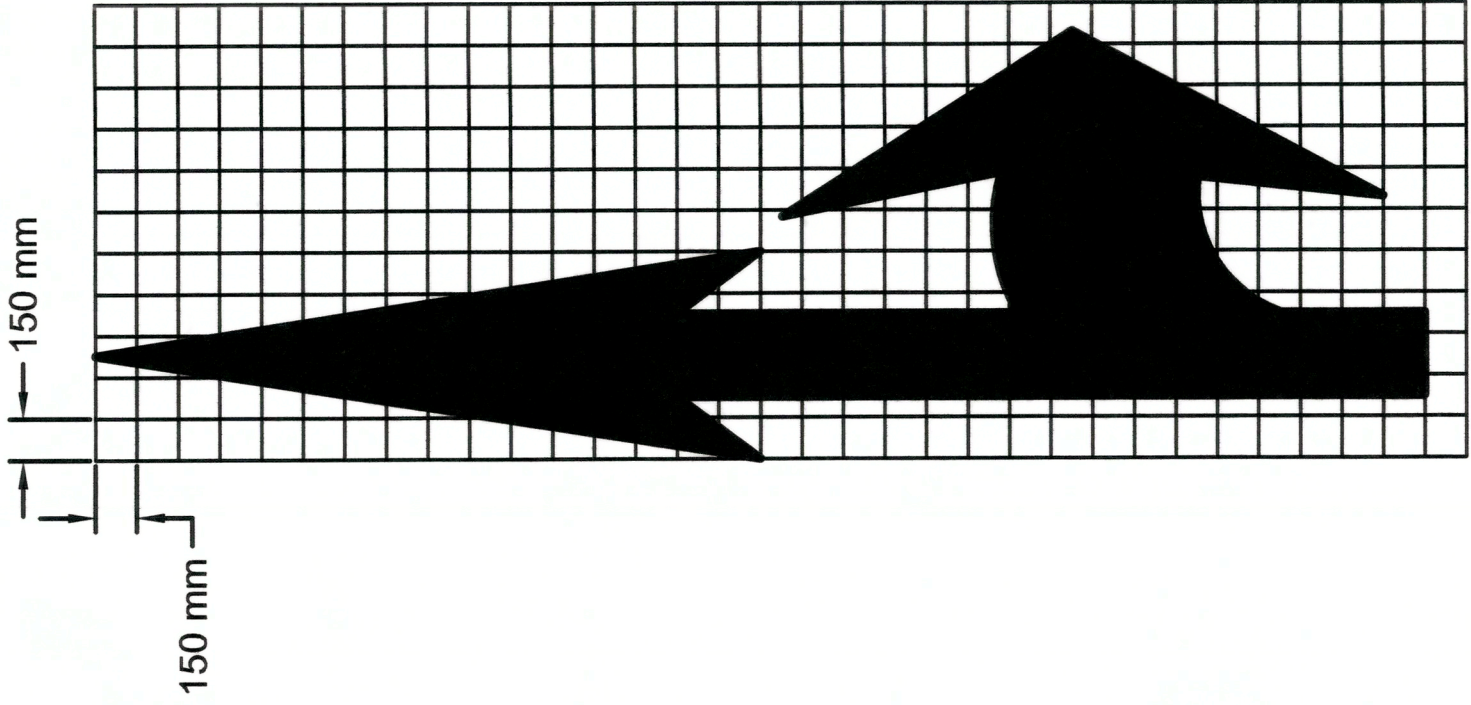
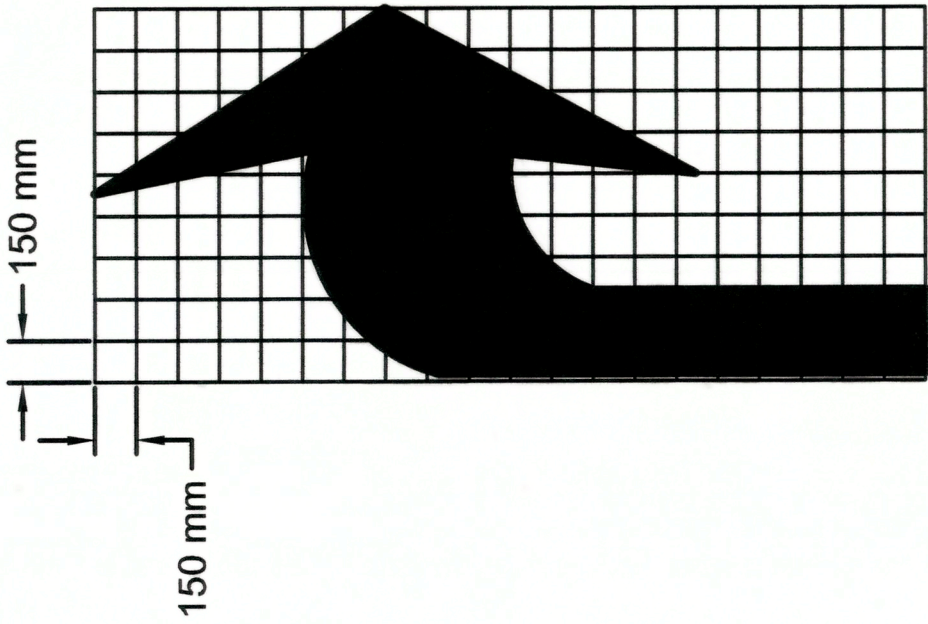
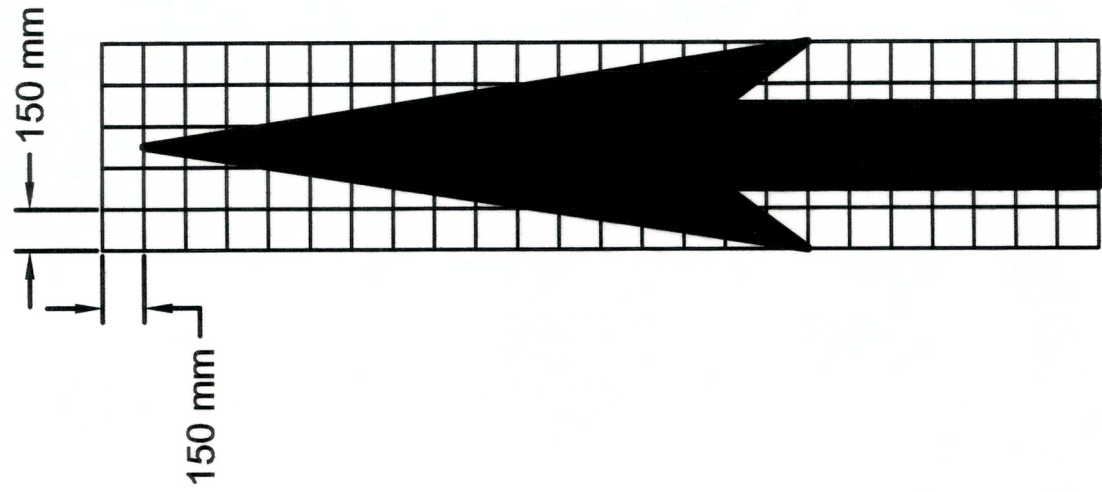
1	Nov 10, 2014	Added Zebra Crosswalk Markings		
MK.	DATE	REVISION		


Transportation and
Infrastructure Renewal

Scale: NTS
Date: Dec 2013
File No.: S-2013-300
Sheet No.: 1 of 1

HIGHWAY PAVEMENT
MARKINGS

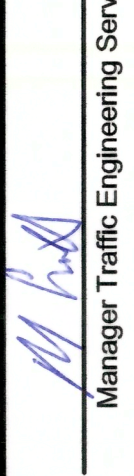
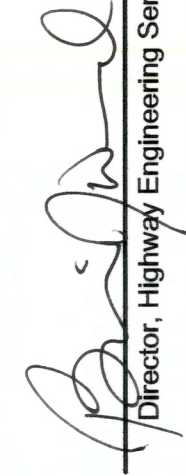
PATTERNS OF LINES



NOTES

1. Dimensions are measured from MUTCDC Figure C1-3
2. Arrows shown as they are to be placed on the pavement. Arrows will appear compressed to the driver. See MUTCDC Figure C1-3 for details.
3. On urban streets, the Area manager may approve the placement of directional arrow symbols that are 75% of the size shown above.

Designed by:	
Surveyed by:	
Drawn by:	R. Hind
Checked by:	
Approved by:	

	13 Dec 13
Manager Traffic Engineering Services	Date
	13 Dec 13
Director, Highway Engineering Services	Date

MK.	DATE	REVISION



Transportation and Infrastructure Renewal

Scale:	NTS
Date:	Dec 2013
File No.:	S-2013-301
Sheet No.:	1 of 1

HIGHWAY PAVEMENT MARKINGS	DIRECTIONAL ARROW SYMBOLS
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