# TYPICAL SIGNAGE DRAWINGS

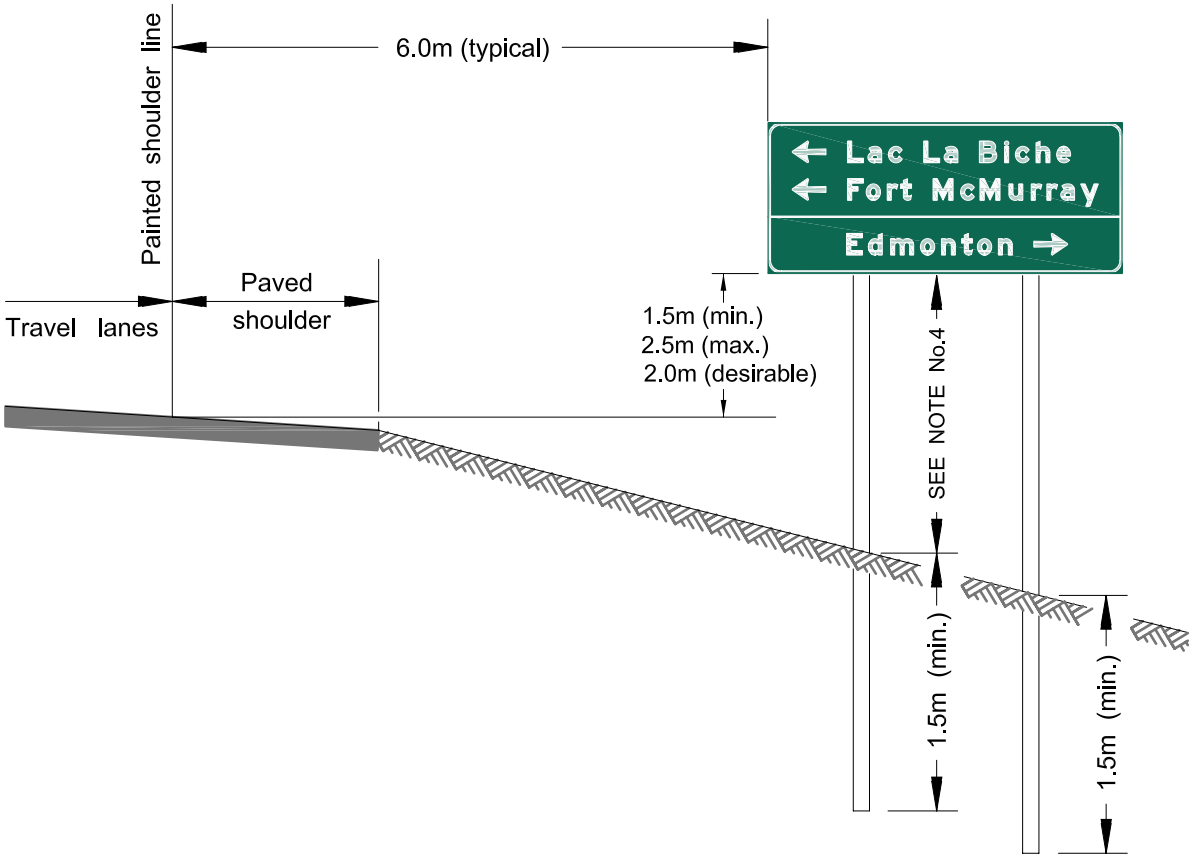
NOTES

- TCS-A4 series drawings are either new or from the ***Highway Guide and Information Sign Manual***.
- TEB series drawings are from the outdated ***Traffic Control Standards*** manual.
- TCS-C series (construction signage) drawings are found in the ***Traffic Accommodation in Work Zones Manual***.

| | |
|---|---|
| TCS-A4-300 | Typical Rural Sign Installation (Height and Lateral Location) (Superseding TEB 1.70) |
| TCS-A4-305 | Typical Urban Sign Installation (Height and Lateral Location) |
| TCS-A4-310 | Breakaway Ground Mounted Signs on I-Beam Posts (Superseding TEB 1.82) |
| TCS-A4-315 | Breakaway Ground Bases Steel I-Beam Posts (Superseding TEB 1.83) |
| TCS-A4-320 | Typical Installation of Large Signs (on Wooden Posts) (Superseding TEB 1.72) |
| TCS-A4-325 | Typical Installation of Large Signs (on Steel I-Beam Posts) (Superseding TEB 1.75) |
| TCS-A4-330 | Typical Sign Assembly Detail (Superseding TEB 1.71) |
| TCS-A4-335A | Sign Assembly for Extruded Aluminum Panels (Superseding TEB 1.95) |
| TCS-A4-335B | Typical T-Stiffener Spacing for Extruded Aluminum Panels |
| TCS-A4-336A | Sign Assembly Details for Extruded Aluminum Panels on Wood Sign Posts (for Sign Area < $3m^2$) (Option 1 ) |
| TCS-A4-336B | Sign Assembly Details for Extruded Aluminum Panels on Wood Sign Posts (for Sign Area < $3m^2$) (Option 2) |
| TCS-A4-337A | Typical Sign Assembly Detail (Wood Posts) for TCS-A4-336A (New!) |
| TCS-A4-337B | Typical Sign Assembly Detail (Wood Posts) for TCS-A4-336B (New!) |
| TCS-A4-430A | Typical Signing Distances on Low Speed (70 km/h or Lower) Stop Control Approach (Rural) |
| TCS-A4-430B | Typical Signing Distances on Low Speed (70 km/h or Lower) Stop Control Approach (Urban) |
| TCS-A4-430C | Typical Signing Distances on High Speed (Higher than 70 km/h) Stop Control Approach |
| TCS-A4-430D | Typical Signing Distances on Signal Control Approach |
| TCS-A4-430E | Typical Signing Distances on No Control Approach |
| TCS-A4-430F | Typical Departure Signing Placement |

| | |
|---|---|
| TCS-A4-430G | Typical Signing Distances on High Speed No Control Divided Approach |
| TCS-A4-435A | Typical Signing Four Lane Divided Highway – Minor Cross-Over (Farm & Residential Access) (New!) |
| TCS-A4-435B | Typical Signing Four Lane Divided Highway – Minor Cross-Over (Commercial Access) (New!) |
| TEB 1.01 | Junction of Two Offset Secondary Highways |
| TEB 1.02 | Junction of Primary and Secondary Highways |
| TEB 1.03 | Junction of Two Offset Primary Highways |
| TEB 1.04 | Junction of Two Primary Highways |
| TEB 1.05 | Junction of Two Secondary Highways |
| TEB 1.28 | Bridge Approaches with Weight and Width Restrictions |
| TEB 1.29 | Divided Highway Major Crossover with Depressed Median |
| TEB 1.30 | Crossovers with Raised Median |
| TEB 1.31 | Second Class Vehicle Inspection Station |
| TEB 1.32 | Vehicle Inspection Station Scale Site |
| TEB 1.33 | Class 1 Vehicle Inspection Station |
| TEB 1.49 | Divided Highway Transitions |
| TEB 1.58 | Passing and Climbing Lanes |
| TEB 1.59 | Gravel Pits (Crown and Transportation Pits) |
| TEB 1.60 | Gravel Pits (Private) |
| TEB 1.61 | Distances for Sign Location |
| TEB 1.62 | Truck Inspection Sites |
| TEB 1.63 | Maintenance Equipment Crossings on Four-Lane Divided Highways |
| TEB 1.66 | Highways Adjacent to Air Shows |
| TEB 1.67 | Logging Trucks Turning |
| TEB 1.69 | Cluster Board Assembly |
| TEB 1.70 | Sign Installation Height and Lateral Location (Superseded by TCS-A4-300) |
| TEB 1.71 | Sign Assembly Detail (Superseded by TCS-A4-330) |
| TEB 1.72 | Hanger Bolt Assembly (Superseded by TCS-A4-320) |
| TEB 1.73 | Static Vehicle Inspection Sites |
| TEB 1.75 | Installation of Large Signs on I-Beam Steel Posts (Superseded by TCS-A4-325) |
| TEB 1.76 | Merging Traffic (Ramp Entrance) |
| TEB 1.77 | Added Lanes (Lane-Away Ramp Entrance) |

| | |
|---|---|
| TEB 1.81 | Breakaway Wood Post |
| TEB 1.82 | Breakaway Ground Mounted Signs on Steel I-Beam Posts (Superseded by TCS-A4-310) |
| TEB 1.83 | Breakaway Ground Mount – Bases (Superseded by TCS-A4-315) |
| TEB 1.85 | Pedestrian and School Crosswalks |
| TEB 1.86 | School Zones |
| TEB 1.95 | Sign Assembly Detail – Extruded Aluminum (Superseded by TCS-A4-335A) |
| TEB 1.97 | Multi-Service Facility Sign Specifications |
| TEB 1.98 | Facility Sign Location and Specification |
| TEB 1.99 | Rural Addressing – Township and Range Road |




NOTE:

1. All signs to be erected perpendicular to the road and tilted 1°- 3° from perpendicular unless otherwise indicated.
2. Single post signs should also be installed to these specifications.
3. This plan shows typical installation only. Offsets may require adjustment for specific situations.
4. 2.2m min. for steel breakaway groundmount posts.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |
| | | | |

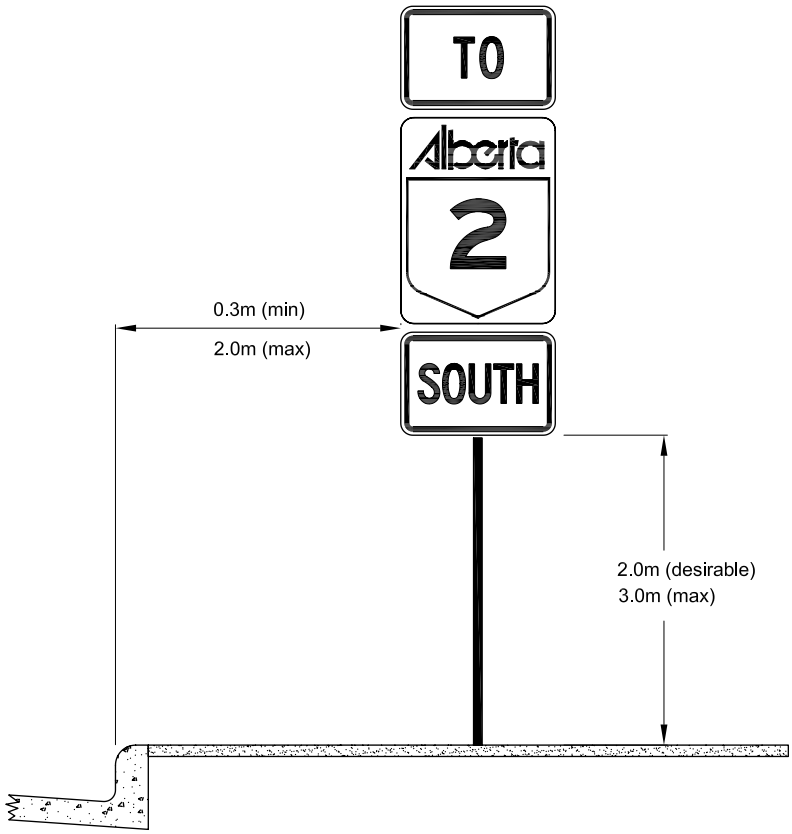
Alberta Infrastructure and Transportation

DRAWING TCS-A4-300

Date: October 2006

# TYPICAL RURAL SIGN INSTALLATION (Height and Lateral Location)

| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|




| No. | DESCRIPTION | BY | DATE |
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Alberta
Infrastructure and Transportation

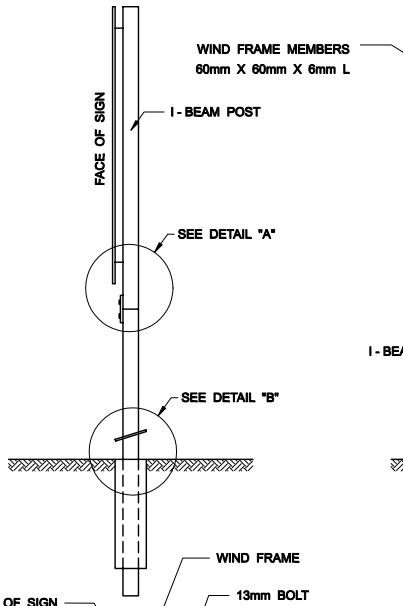
DRAWING
TCS-A4-305

Date: October 2006

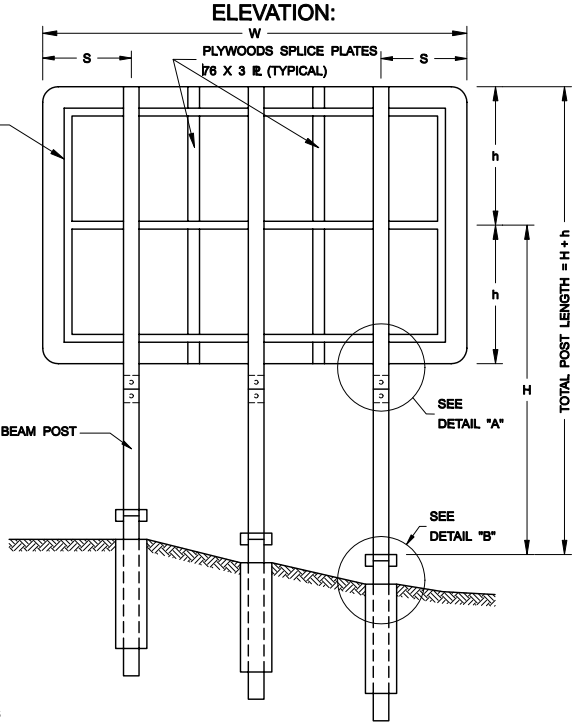
# TYPICAL URBAN SIGN INSTALLATION (Height and Lateral Location)

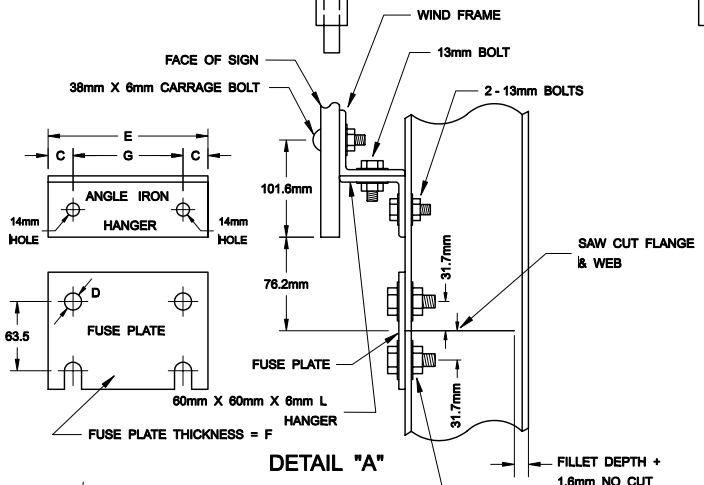
| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|

## SIDE VIEW:

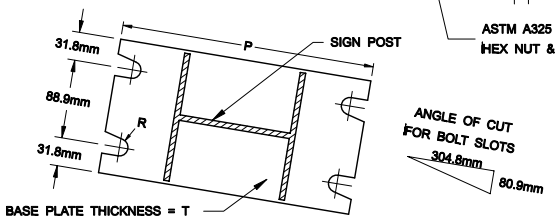


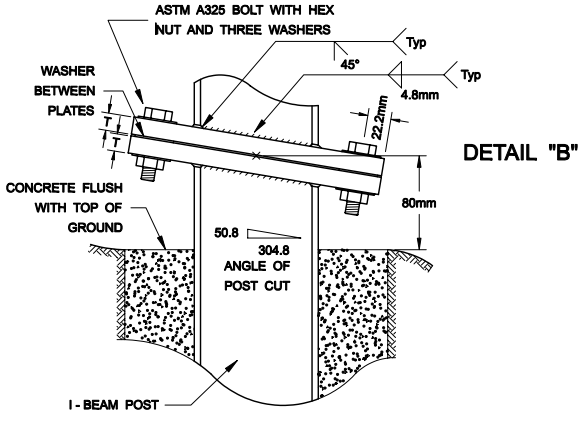

## ELEVATION:




DETAIL "A"




DETAIL "B"

| POST SIZE | BASE CONNECTION DATA | | | | FUSE PLATE & HANGER DATA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | BOLT SIZE | P | T | R | BOLT SIZE | E | F | G | C | D |
| W 150x14 (W 6x9) | 13 | 266.7 | 19.05 | 7.14 | 13 | 101.6 | 6.35 | 57.15 | 22.23 | 14.29 |
| W 200x15 (W 8x10) | 16 | 317.5 | 19.05 | 8.73 | 16 | 101.6 | 6.35 | 57.15 | 22.23 | 17.46 |
| W 150x22 (W 6x15) | 16 | 266.7 | 25.4 | 8.73 | 16 | 152.4 | 9.53 | 88.9 | 31.75 | 17.46 |
| W 200x27 (W 8x18) | 19 | 317.5 | 28.58 | 10.32 | 19 | 133.35 | 9.53 | 69.9 | 31.75 | 20.64 |

| (H) | POST TYPE | | | |
|---|---|---|---|---|
| | W 150x14 (W 6x9) | W 200x15 (W 8x10) | W 150x22 (W 6x15) | W 200x27 (W 8x18) |
| | ½ AREA OF SIGN (W x h) m² | | | |
| 2.74 | 6.32 | 9.66 | 12.54 | |
| 3.05 | 5.76 | 8.64 | 11.24 | |
| 3.35 | 5.20 | 7.99 | 10.22 | |
| 3.66 | 4.83 | 7.25 | 9.38 | 13.47 |
| 3.96 | 4.46 | 6.69 | 8.64 | 12.36 |
| 4.27 | 3.99 | 6.22 | 8.08 | 11.43 |
| 4.57 | 3.81 | 5.76 | 7.62 | 10.59 |
| 4.88 | 3.53 | 5.39 | 7.15 | 9.94 |
| 5.18 | 3.34 | 5.11 | 6.69 | 9.29 |
| 5.49 | 3.16 | 4.83 | 6.32 | 8.64 |
| 5.79 | 3.07 | 4.55 | 5.95 | 8.27 |

**GENERAL NOTES:**

1. ALL UNSPECIFIED DIMENSIONS ARE IN mm.
2. PERMANENT HIGHWAY SIGNS WITH SIGN FACE GREATER THAN 3m² SHALL BE INSTALLED WITH BREAKAWAY GROUND MOUNT SIGN SUPPORT ASSEMBLY.
3. S = 20% OF W FOR SIGNS LESS THAN 5.5m.
4. S = 15% OF W FOR SIGNS GREATER THAN 5.5m.
5. SIGNS GREATER THAN 5.5m WIDTH REQUIRE 3 POST MOUNTING.

| ALL BOLTS SHALL BE TIGHTENED AS FOLLOWS | | |
|---|---|---|
| BOLT SIZE | TORQUE | RESIDUAL TENSION |
| 13mm (½") | 136.9 N.m | 5 465.8 kg |
| 16mm (⅝") | 271.2 N.m | 8 709.0 kg |
| 19mm (¾") | 482.7 N.m | 12 882.0 kg |

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
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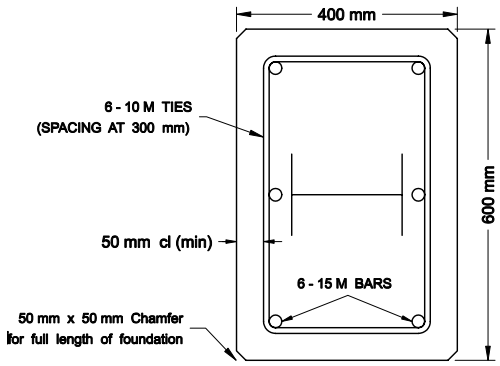
Alberta Infrastructure and Transportation

DRAWING TCS-A4-310

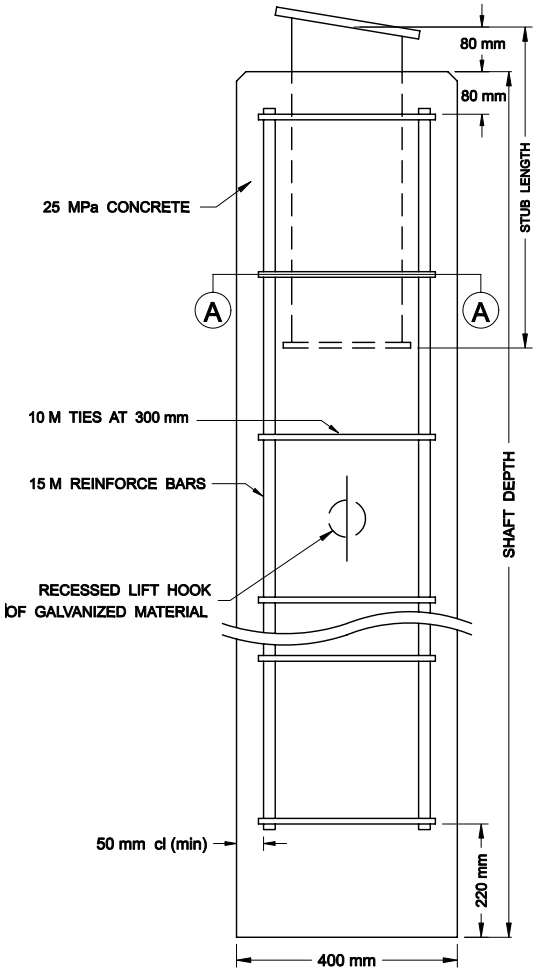
Date: October 2006

# BREAKAWAY GROUND MOUNTED SIGNS ON I - BEAM POSTS

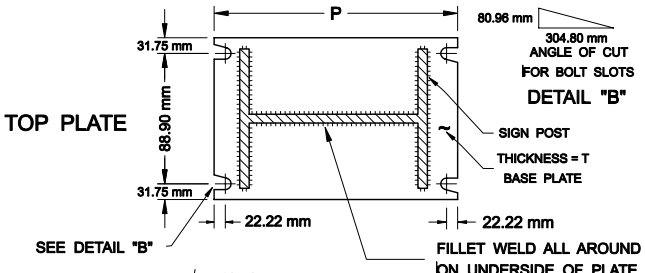
| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|

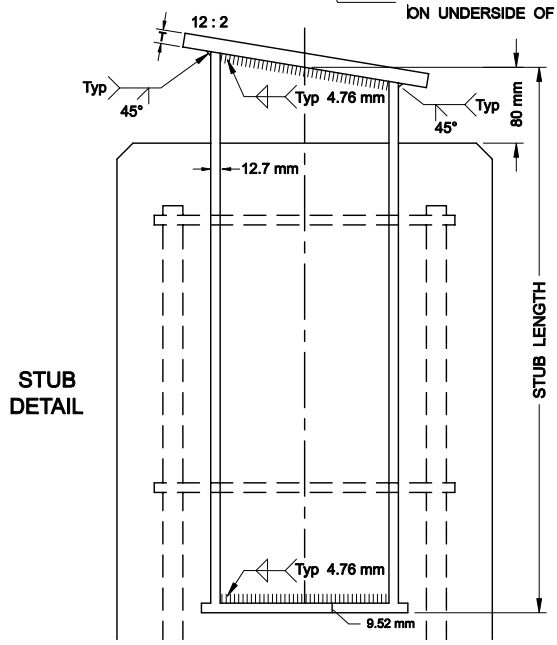


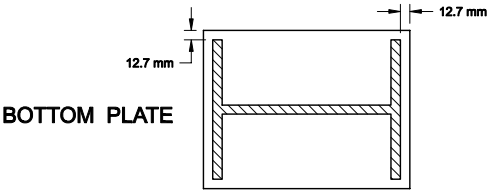

DETAIL A - A




FOUNDATION




| FOUNDATION DATA | | | | |
|---|---|---|---|---|
| POST SIZE | | STUB LENGTH | SHAFT DEPTH | REINF. BARS |
| METRIC | IMPERIAL | | | |
| W150 x 14 | W 6x9 | 600 mm | 1800 mm | 15 M |
| W200 x 15 | W 8x10 | 600 mm | 1800 mm | 15 M |
| W150 x 22 | W 6x15 | 800 mm | 1800 mm | 15 M |
| W200 x 27 | W 8x18 | 800 mm | 1800 mm | 15 M |

| BASE CONNECTION DATA | | | | | |
|---|---|---|---|---|---|
| POST SIZE | | BOLT SIZE | P | T | R |
| METRIC | IMPERIAL | | | | |
| W150 x 14 | W 6x9 | 13 | 266.7 | 19.05 | 7.14 |
| W200 x 15 | W 8x10 | 16 | 317.5 | 19.05 | 8.73 |
| W150 x 22 | W 6x15 | 16 | 266.7 | 25.4 | 8.73 |
| W200 x 27 | W 8x18 | 19 | 317.5 | 28.58 | 10.32 |

## GENERAL NOTES:

### DESIGN

AASHO Specification for Design and Construction of Structural Supports for Highway Signs and National Building Code.

### MATERIAL

Structural Steel and Plates shall conform to ASTM Specification A36.

* All steel shall be Blast Cleaned after fabrication in accordance with Specification SSPC - SP - 6 - 63 of the Steel Structural Painting Council.
* All welds shall Conform to CSA Specification W - 59.
* Fabricators shall be approved by the Canadian Welding Bureau.
* Fabricator shall submit a weld procedure, listing all parameters for approval.
* Provide weld all around, on both sides, to avoid a zipper failure and provide a safety factor.
* Welding to be inspected during fabrication, at random, by a qualified inspector.
* Stubs shall be galvanized and conform to CSA G164.
* All footings to have a recessed lift hook.

| No. | DESCRIPTION | BY | DATE |
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Alberta Infrastructure and Transportation

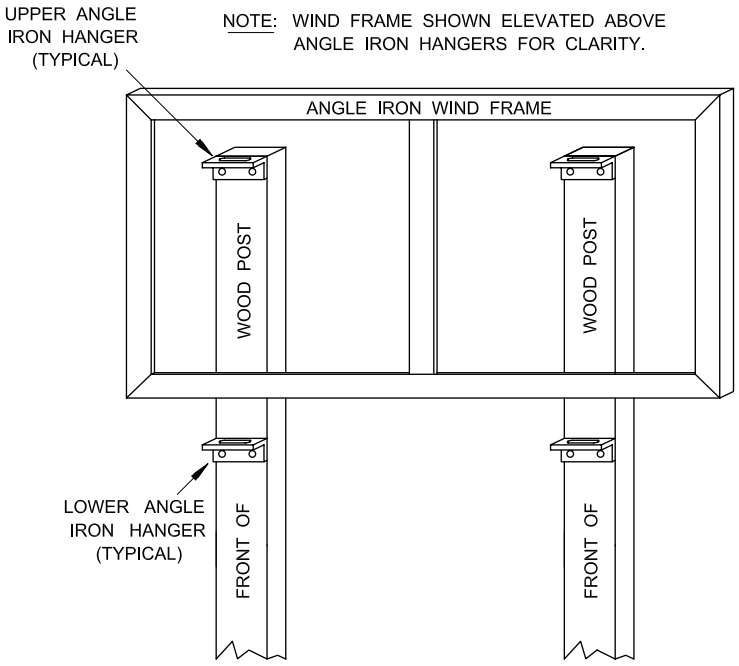
DRAWING TCS-A4-315

Date: October 2006

# BREAKAWAY GROUND MOUNTED BASES STEEL I - BEAM POSTS

| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|

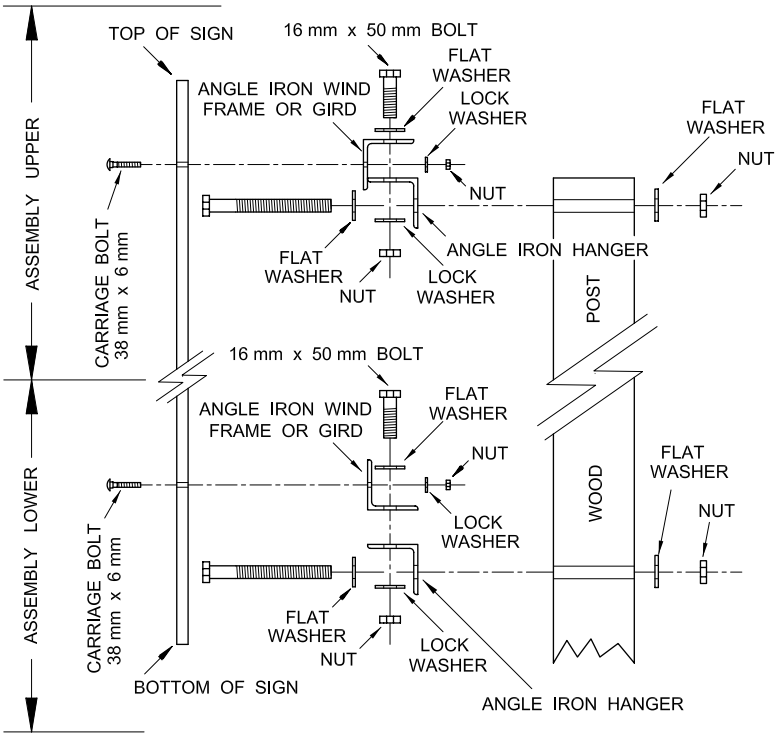
# PICTORIAL OF WINDFRAME AND POST STRUCTURE




NOTE:

1. Signs with angle iron girds are mounted similar to wind frames.
2. Wind frames, girds and hangers to be constructed from 60 mm x 60 mm x 6 mm angle iron.
3. All nuts, washers and bolts to be cadmium plated.

# SIDE VIEW DETAIL HANGER / BOLT ASSEMBLY




| No. | DESCRIPTION | BY | DATE |
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Alberta Infrastructure and Transportation

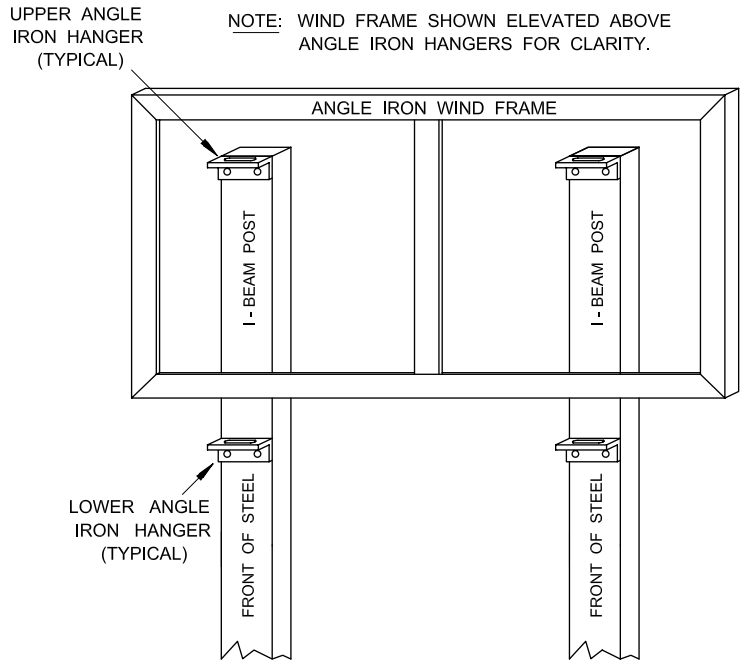
DRAWING TCS-A4-320

Date: October 2006

TYPICAL INSTALLATION OF LARGE SIGNS (on Wooden Posts)

| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|

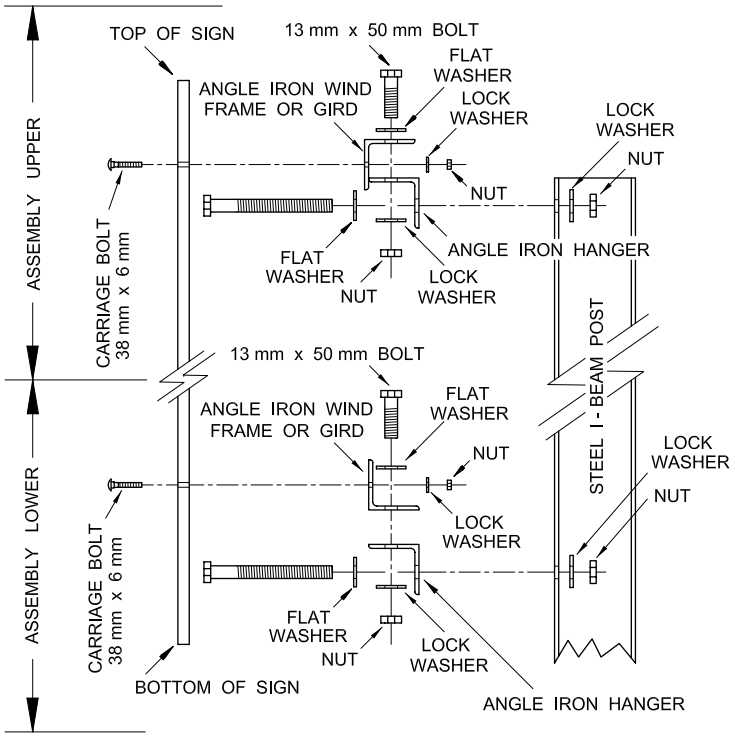
# PICTORIAL OF WINDFRAME AND POST STRUCTURE




NOTE:

1. Signs with angle iron girds are mounted similar to wind frames.
2. Wind frames, girds and hangers to be constructed from 60 mm x 60 mm x 6 mm angle iron.
3. All nuts, washers and bolts to be cadmium plated.

# SIDE VIEW DETAIL HANGER / BOLT ASSEMBLY




| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
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| | | | |

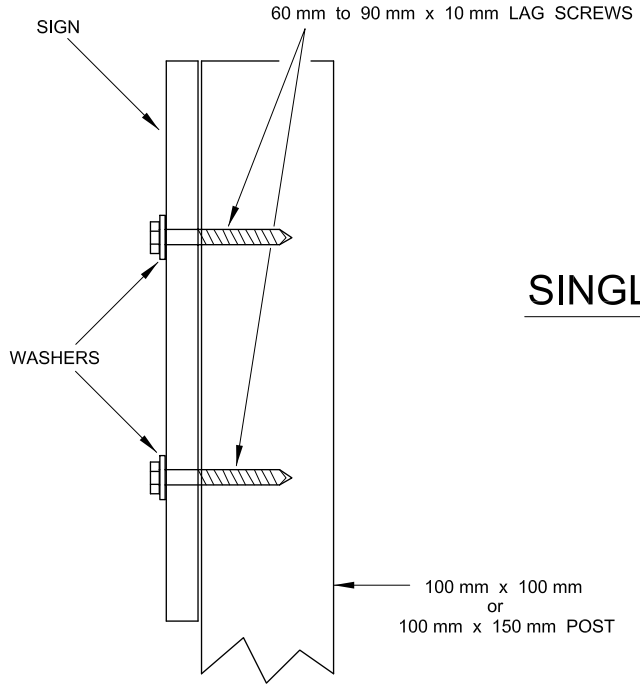
Alberta Infrastructure and Transportation

DRAWING TCS-A4-325

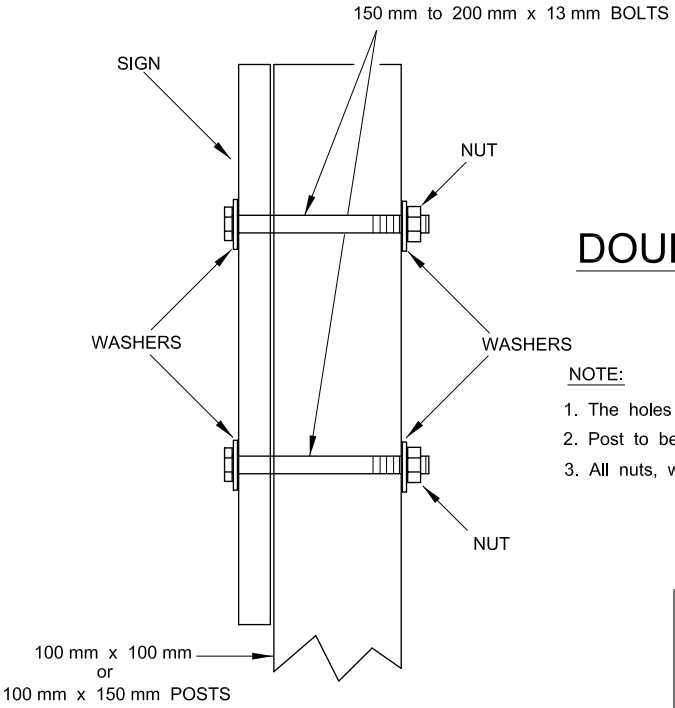
Date: October 2006

TYPICAL INSTALLATION OF LARGE SIGNS (on Steel I - Beam Posts)

| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|




# SINGLE POST SIGN




# DOUBLE POST SIGN

NOTE:

1. The holes are pre-drilled in the sign.
2. Post to be cut flush with the top of sign and stained.
3. All nuts, washers and bolts to be cadmium plated.

| No. | DESCRIPTION | BY | DATE |
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| | | | |

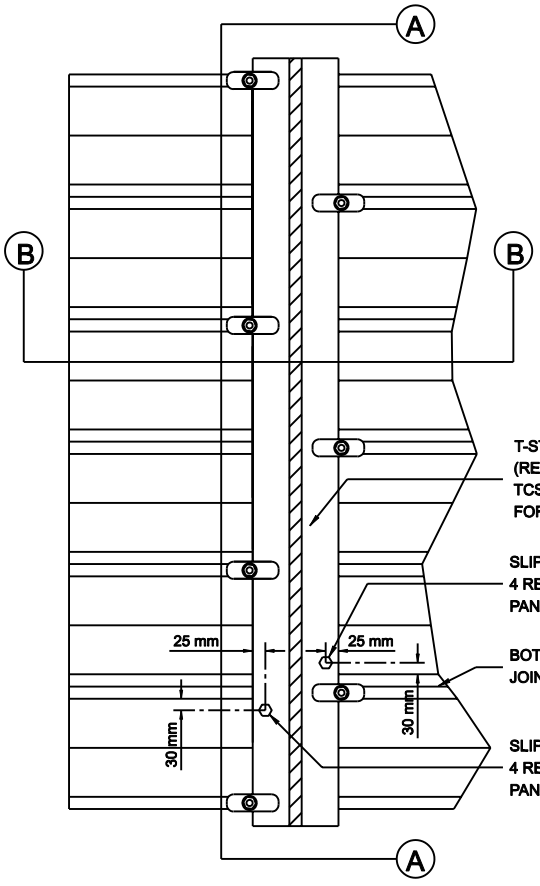
Alberta Infrastructure and Transportation

DRAWING TCS-A4-330

Date: October 2006

TYPICAL SIGN ASSEMBLY DETAIL

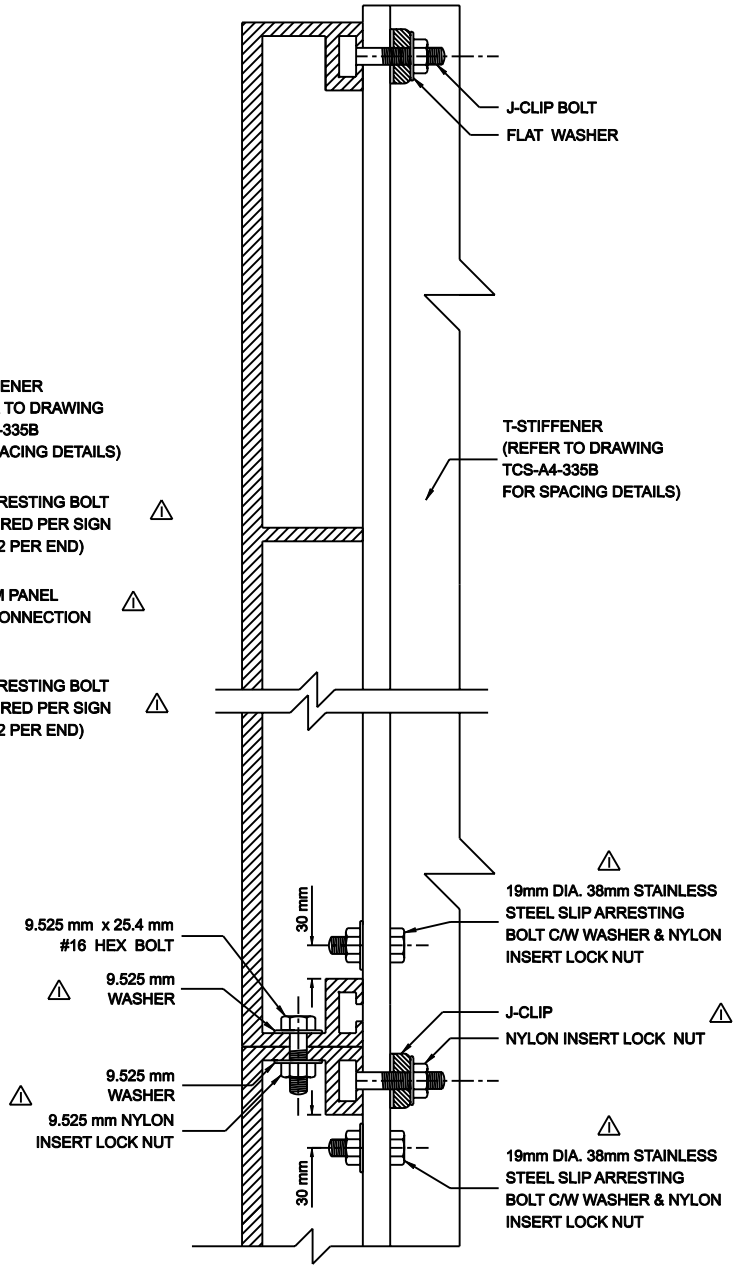
| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|



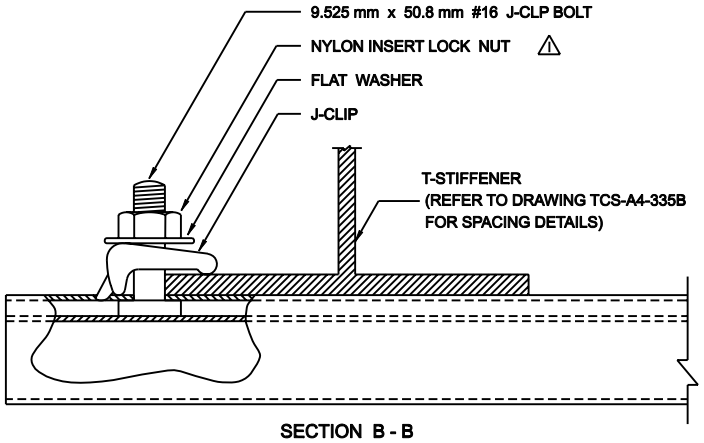

BACK ELEVATION OF SIGN PANEL

NOTES:

1. ALL BOLTS, NUTS AND WASHERS FOR FASTENING EXTRUDED ALUMINUM PANELS TOGETHER SHALL BE STAINLESS STEEL.
2. HORIZONTAL SPACING BETWEEN CONNECTING HARDWARE SETS SHALL BE 457 mm (18") O.C., STAGGERED BETWEEN ROWS OF SLOTS, EXCEPT FOR THE LAST SLOTS AT EITHER END OF THE SECTION OR PANEL.
3. FOR J-CLIPS, ALL BOLTS, NUTS AND WASHERS SHALL BE ALUMINUM ALLOY.
4. J-CLIPS SHALL BE PLACED ON ALTERNATING SIDES OF THE T-STIFFENER FOR EACH PANEL WIDTH.
5. AT THE END OF EACH ALUMINUM SIGN PANEL, PROVIDE 2 - 19mm DIA. X 38mm LONG SLIP ARRESTING BOLT C/W WASHERS AND NYLON INSERT LOCK NUTS AS SHOWN. LOCATE ONE BOLT ABOVE AND BELOW THE BOTTOM LONGITUDINAL ALUMINUM PANEL JOINT CONNECTION. SLIP ARRESTING BOLTS, WASHERS AND NYLON INSERT LOCK NUTS SHALL BE STAINLESS STEEL 316 F593H WITH A MINIMUM YIELD STRENGTH OF 310 MPa AND A MINIMUM TENSILE STRENGTH OF 585 MPa.




SECTION A - A
INSTALLATION DETAIL




SECTION B - B
INSTALLATION DETAIL

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| ⚠ | SLIP ARRESTING BOLTS ADDED; LYLON INSERT LOCK NUTS SPECIFIED; NOTES REVISED. | C.M. | SEPT 2012 |

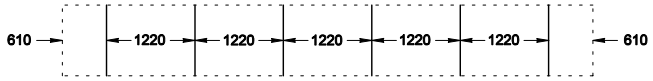
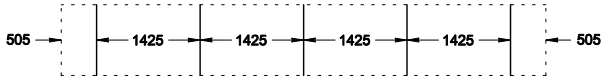
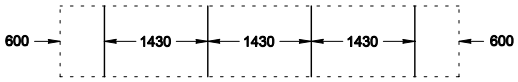
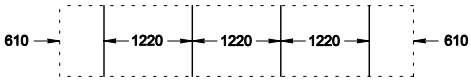
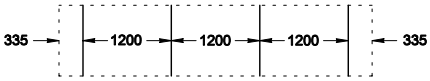
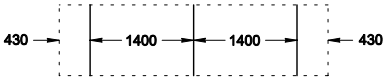
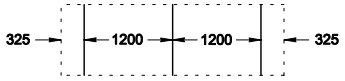
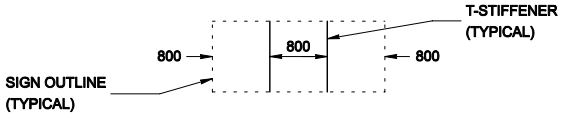
Alberta Infrastructure and Transportation

# DRAWING TCS-A4-335A

Date: October 2006

## SIGN ASSEMBLY FOR EXTRUDED ALUMINUM PANELS

| Prepared By: MM | Checked By: SM | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|

| TYPICAL SIGN WIDTH | SPACING OF T-STIFFENERS (SEE NOTE 2) | NUMBER OF VERTICALS |
|---|---|---|
| 7320 mm (24 ft) |   | 6 |
| 6710 mm (22 ft) |   | 5 |
| 6100 mm (20 ft) |   | 5 |
| 5490 mm (18 ft) |   | 4 |
| 4880 mm (16 ft) |   | 4 |
| 4270 mm (14 ft) |   | 4 |
| 3660 mm (12 ft) |   | 3 |
| 3050 mm (10 ft) |   | 3 |
| 2440 mm (8 ft) |   | 2 |

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. T-STIFFENER SPACING FOR WIDER SIGNS WILL BE NOTED IN SPECIAL PROVISIONS.
3. T-STIFFENERS SHALL BE PLACED IN SUCH A WAY THAT THEY ARE SYMMETRICAL ABOUT THE VERTICAL CENTRELINE OF THE SIGN.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |
| | | | |

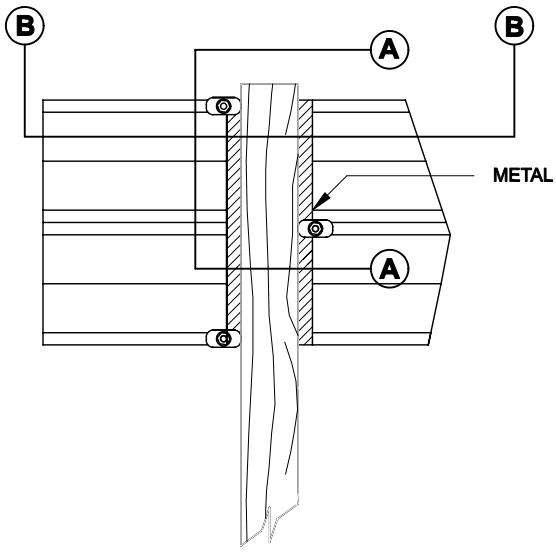
Alberta
Infrastructure and Transportation

DRAWING
TCS-A4-335B

Date: October 2006

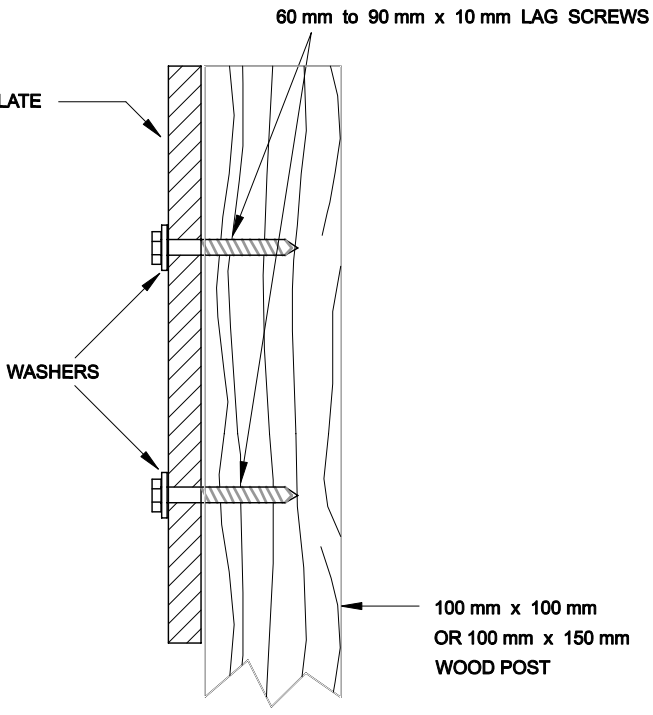
TYPICAL T-STIFFENER SPACING
FOR
EXTRUDED ALUMINUM PANELS

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|




NOTE: POST CLIPS SHALL BE PLACED ON ALTERNATING SIDES OF POST FOR EACH PANEL WIDTH.

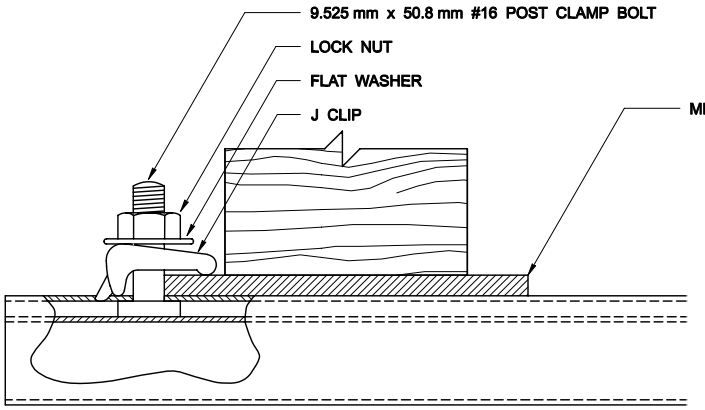
BACK ELEVATION OF SIGN PANEL




SECTION A - A
INSTALLATION DETAIL
(EXTRUDED ALUMNUM PANELS NOT SHOWN)

NOTES:
1. ALL BOLTS, NUTS AND WASHERS FOR FASTENING EXTRUDED ALUMINUM PANELS TOGETHER SHALL BE STAINLESS STEEL.
2. THE STAINLESS STEEL NUT AND WASHERS OF THE CONNECTING HARDWARE SET MAY BE SUBSTITUTED WITH A STAINLESS STEEL LOCK NUT AND 2 STAINLESS STEEL WASHERS, ONE ON EACH OF THE NUT AND THE HEAD SIDE OF THE BOLT.
3. HORIZONTAL SPACING BETWEEN CONNECTING HARDWARE SETS SHALL BE 457 mm (18") O.C., STAGGERED BETWEEN ROWS OF SLOTS, EXCEPT FOR THE LAST SLOTS AT EITHER END OF THE SECTION OR PANEL.
4. FOR J-CLIPS, ALL BOLTS, NUTS AND WASHERS SHALL BE ALUMINUM ALLOY.
5. J-CLIPS SHALL BE PLACED ON ALTERNATING SIDES OF THE METAL PLATE FOR EACH PANEL WIDTH.

NOTES:
1. THE HOLES NEED TO BE PRE-DRILLED IN THE PLATE AND NOT IN LINE WITH EXTRUDED PANEL CONTACT POINTS.
2. POST TO BE CUT FLUSH WITH THE TOP OF PLATE AND STAINED.
3. ALL NUTS, WASHERS AND BOLTS TO BE CADMIUM PLATED.




SECTION B - B
INSTALLATION DETAIL

NOTE: ALL NUTS, BOLTS AND CLIPS SHALL BE ECONOMY BOLT ALLOY 2024 - T4 ALUMILITE 204.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |
| | | | |

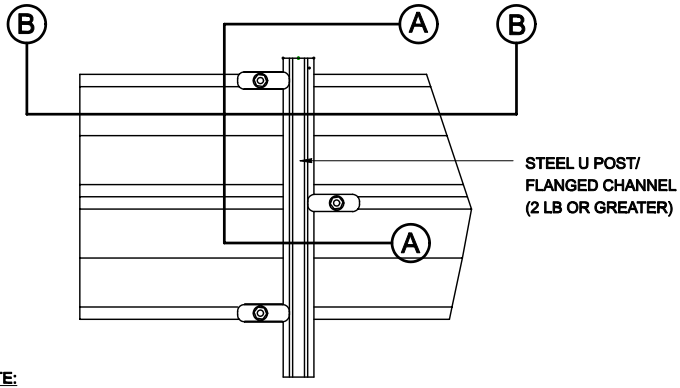
Alberta Transportation

DRAWING
TCS-A4-336A

Date: JANUARY 2009

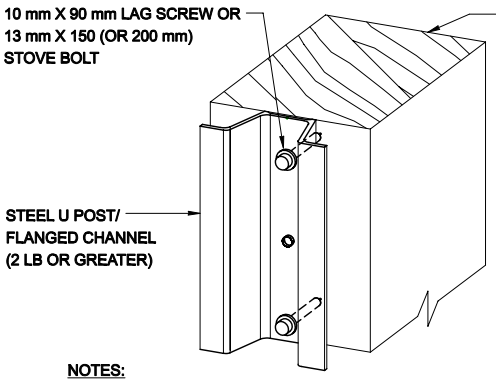
# SIGN ASSEMBLY DETAILS FOR EXTRUDED ALUMINUM PANELS ON WOOD SIGN POSTS (FOR SIGN AREAS < 3 $m^2$)

| By: S.L. | Checked By: B.K. | N.T.S. | SECTION A4 |
|---|---|---|---|



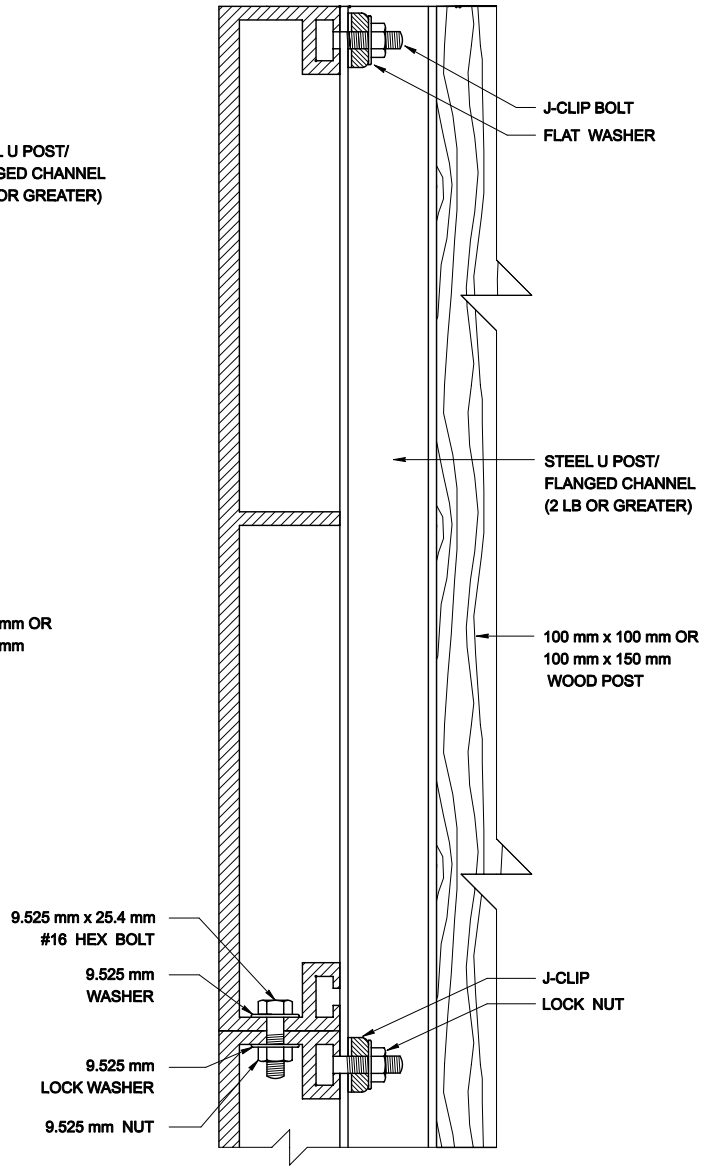

NOTE:
REFER TO TCS-A4-336A FOR DETAILS

BACK ELEVATION OF SIGN PANEL
(WOOD POST NOT SHOWN)

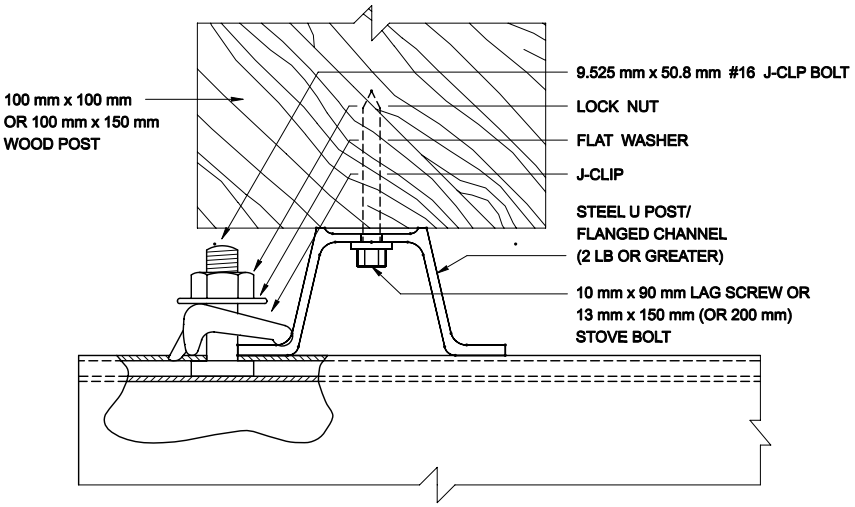



NOTES:
1. HOLES IN STEEL U POST/FLANGED CHANNEL (2 LB OR GREATER) MAY NEED TO BE REAMED TO ACCOMMODATE BOLT.
2. REFER TO TCS-A4-330A FOR DETAILS.
3. POST TO BE CUT FLUSH WITH THE TOP OF PLATE AND STAINED.
4. ALL NUTS, WASHERS AND BOLTS FASTENED TO THE WOOD POST SHALL BE CADMIUM PLATED.

ISOMETRIC VIEW




SECTION A - A
INSTALLATION DETAIL




NOTE:
REFER TO TCS-A4-336A FOR DETAILS

SECTION B - B
INSTALLATION DETAIL

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |
| | | | |

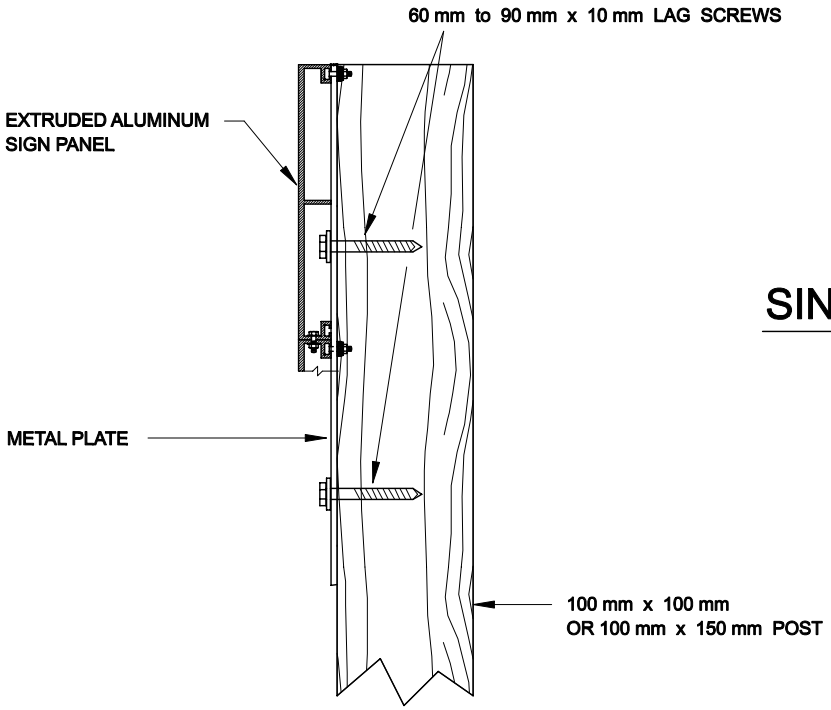
Alberta Transportation

DRAWING
TCS-A4-336B

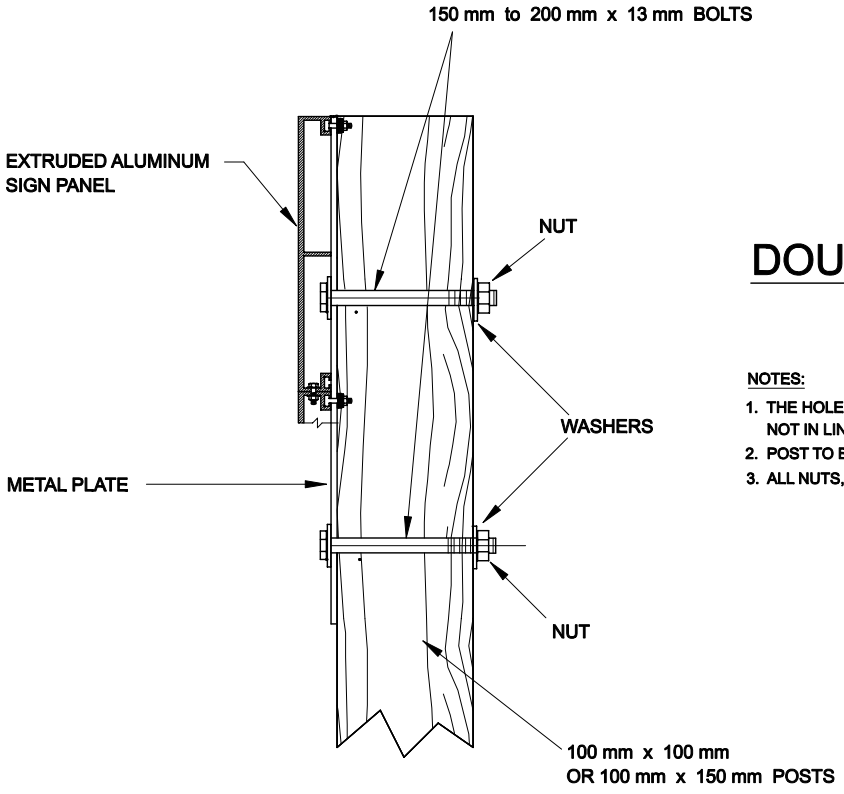
Date: January 2009

SIGN ASSEMBLY DETAILS FOR
EXTRUDED ALUMINUM PANELS
ON WOOD SIGN POSTS
(FOR SIGN AREAS < 3 $m^2$)

| Prepared By: S.L. | Checked By: B.K. | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|




## SINGLE POST SIGN




## DOUBLE POST SIGN

NOTES:

1. THE HOLES NEED TO BE PRE-DRILLED IN THE PLATE AND NOT IN LINE WITH EXTRUDED PANEL CONTACT POINTS.
2. POST TO BE CUT FLUSH WITH THE TOP OF PLATE AND STAINED.
3. ALL NUTS, WASHERS AND BOLTS TO BE CADMIUM PLATED.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |
| | | | |

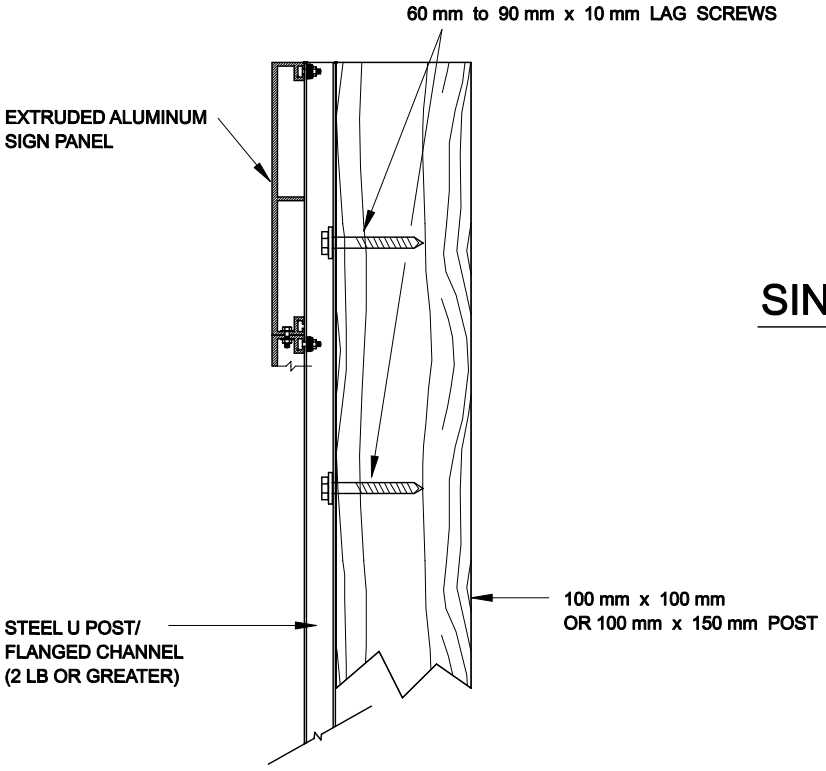
Alberta Transportation

DRAWING TCS-A4-337A

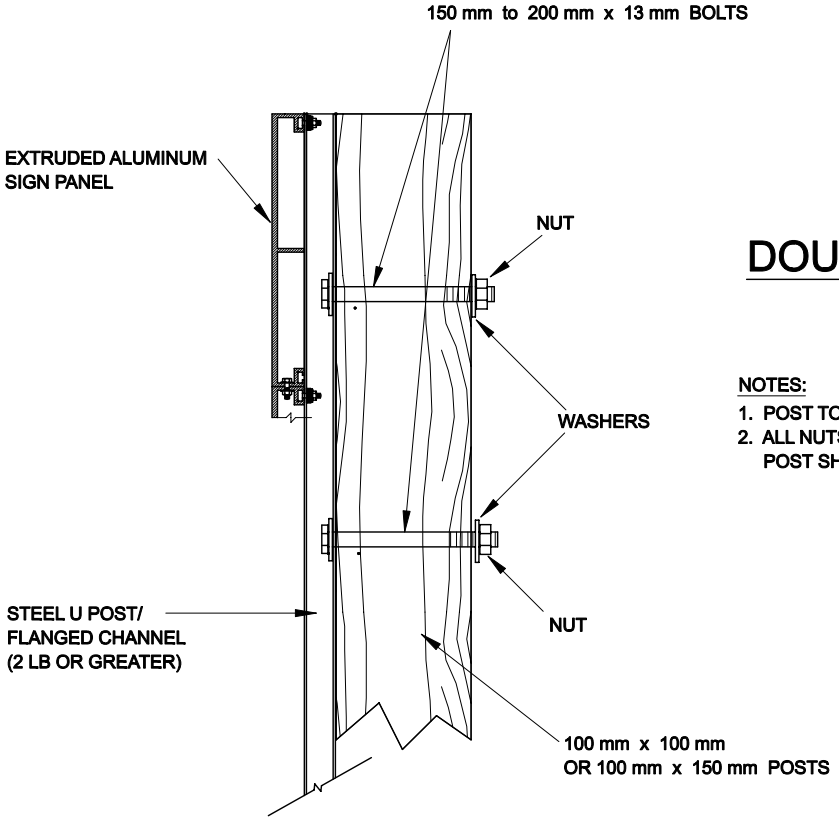
Date: January 2009

TYPICAL SIGN
ASSEMBLY DETAIL (WOOD POST)
FOR TCS-A4-336A

| Prepared By: S.L. | Checked By: B.K. | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|




## SINGLE POST SIGN




## DOUBLE POST SIGN

NOTES:

1. POST TO BE CUT FLUSH WITH THE TOP OF SIGN AND STAINED.
2. ALL NUTS, WASHERS AND BOLTS FASTENED TO THE WOOD POST SHALL BE CADMIUM PLATED.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |
| | | | |

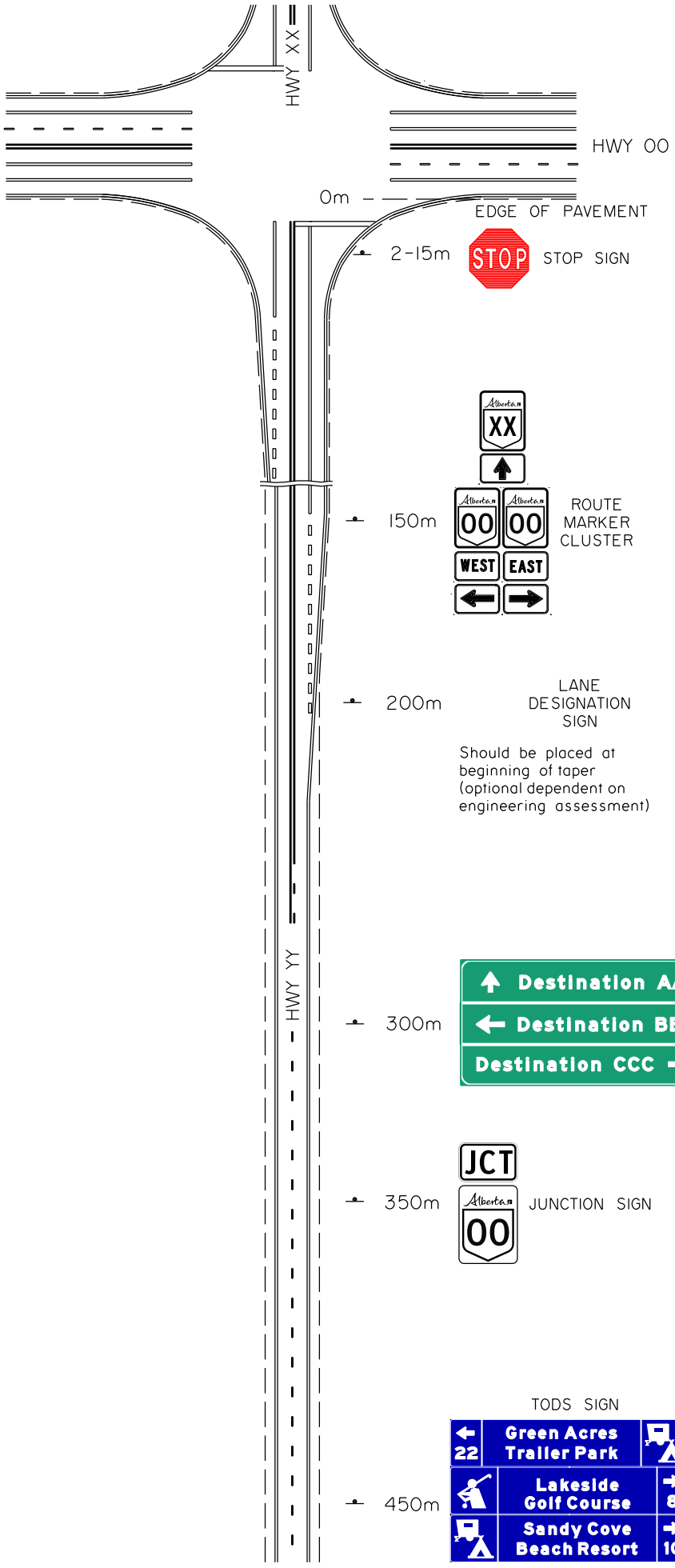
Alberta Transportation

DRAWING TCS-A4-337B

Date: January 2009

TYPICAL SIGN ASSEMBLY DETAIL (WOOD POST) FOR TCS-A4-336B

| Prepared By: S.L. | Checked By: B.K. | Scale: N.T.S. | SECTION A4 |
|---|---|---|---|




NOTES:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES ONLY.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE TO BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY. ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.
4. IF HWY YY = HWY XX, THERE IS NO NEED FOR ROUTE MARKER HWY XX ON TOP OF ROUTE MARKER CLUSTER ASSEMBLY.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 2 | | | |
| 1 | | | |

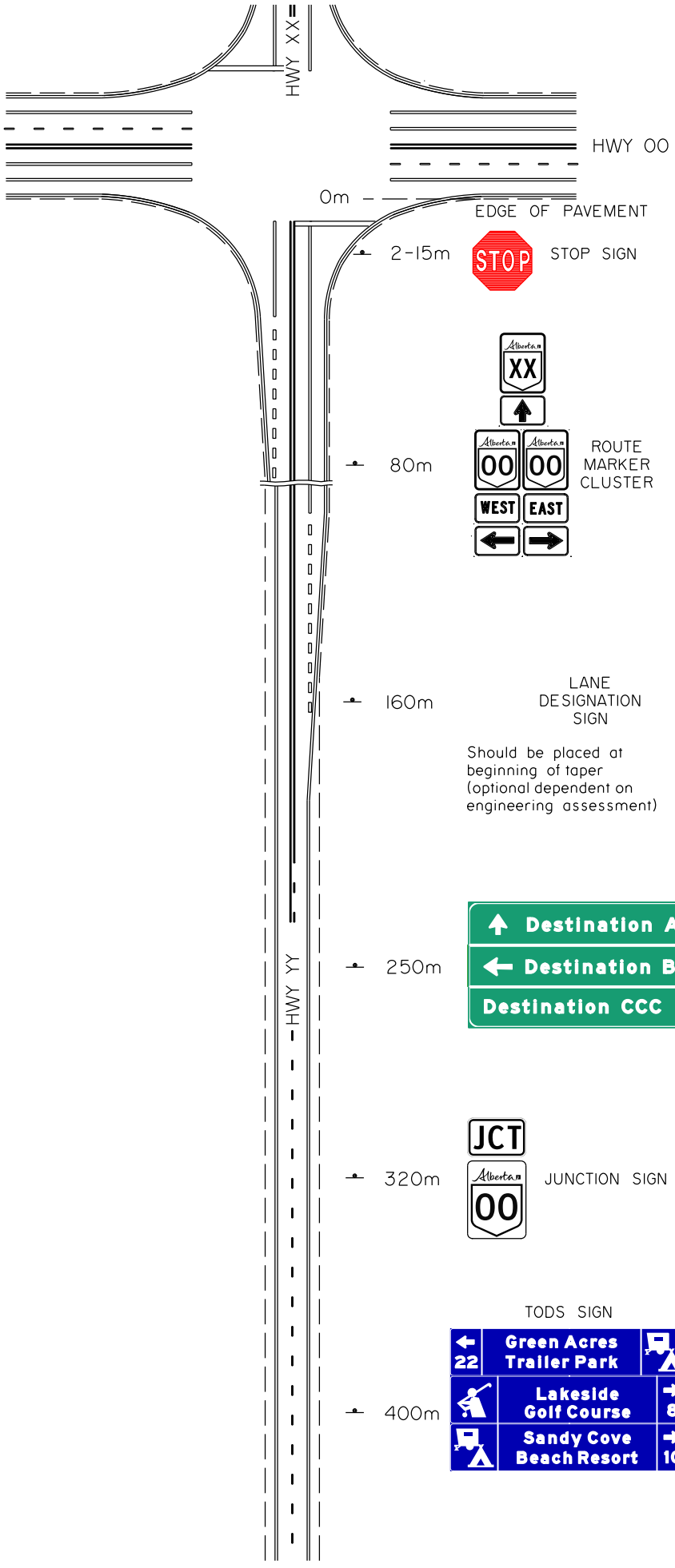
Alberta Government

DRAWING
TCS-A4-430A

Date: April 2014

# TYPICAL SIGNING DISTANCES ON LOW SPEED (70 km/h OR LOWER) STOP CONTROL APPROACH (RURAL)

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | |
|---|---|---|---|




NOTES:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES ONLY.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE TO BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY. ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.
4. IF HWY YY = HWY XX, THERE IS NO NEED FOR ROUTE MARKER HWY XX ON TOP OF ROUTE MARKER CLUSTER ASSEMBLY.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 2 | | | |
| 1 | | | |

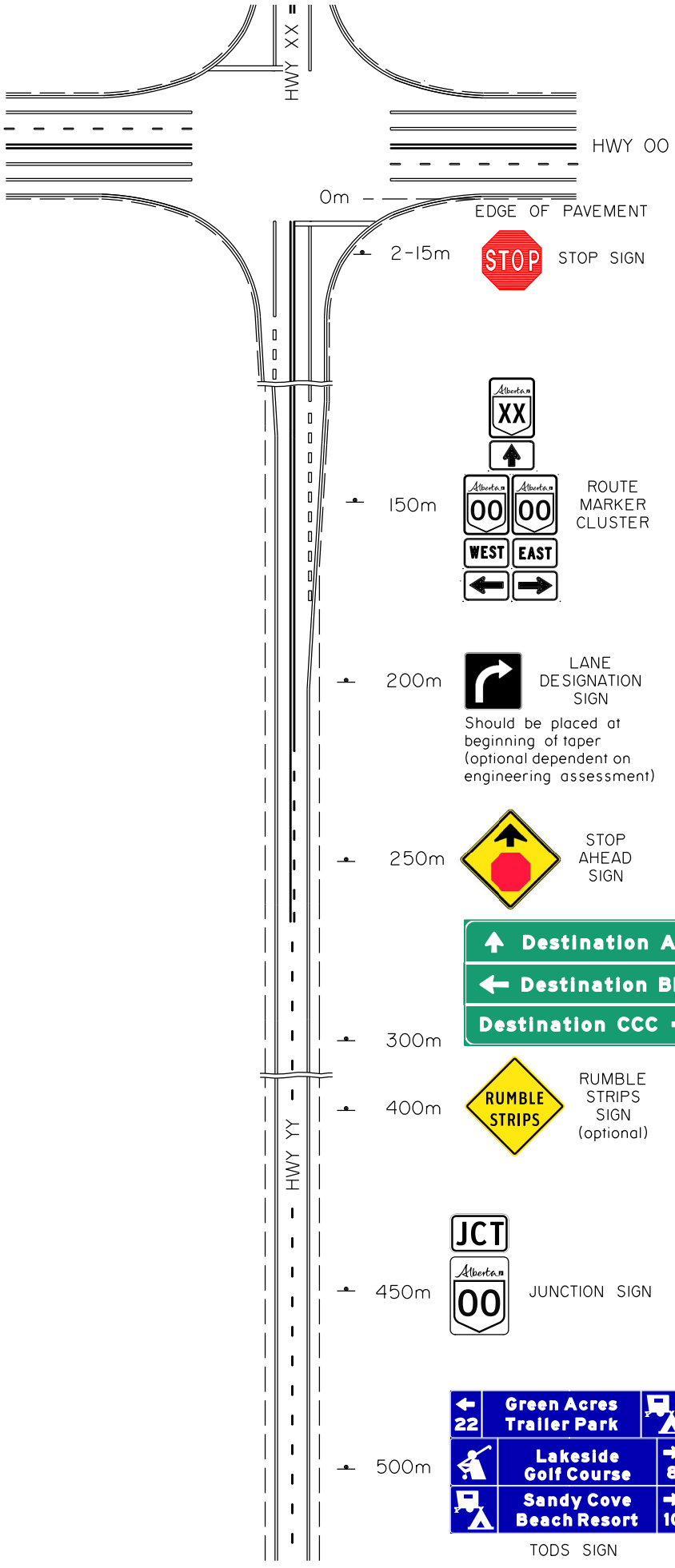
Alberta Government

DRAWING
TCS-A4-430B

Date: April 2014

**TYPICAL SIGNING DISTANCES ON LOW SPEED (70 km/h OR LOWER) STOP CONTROL APPROACH (URBAN)**

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | |
|---|---|---|---|




NOTES:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES ONLY.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE TO BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY. ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.
4. IF HWY YY = HWY XX, THERE IS NO NEED FOR ROUTE MARKER HWY XX ON TOP OF ROUTE MARKER CLUSTER ASSEMBLY.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 2 | | | |
| 1 | | | |

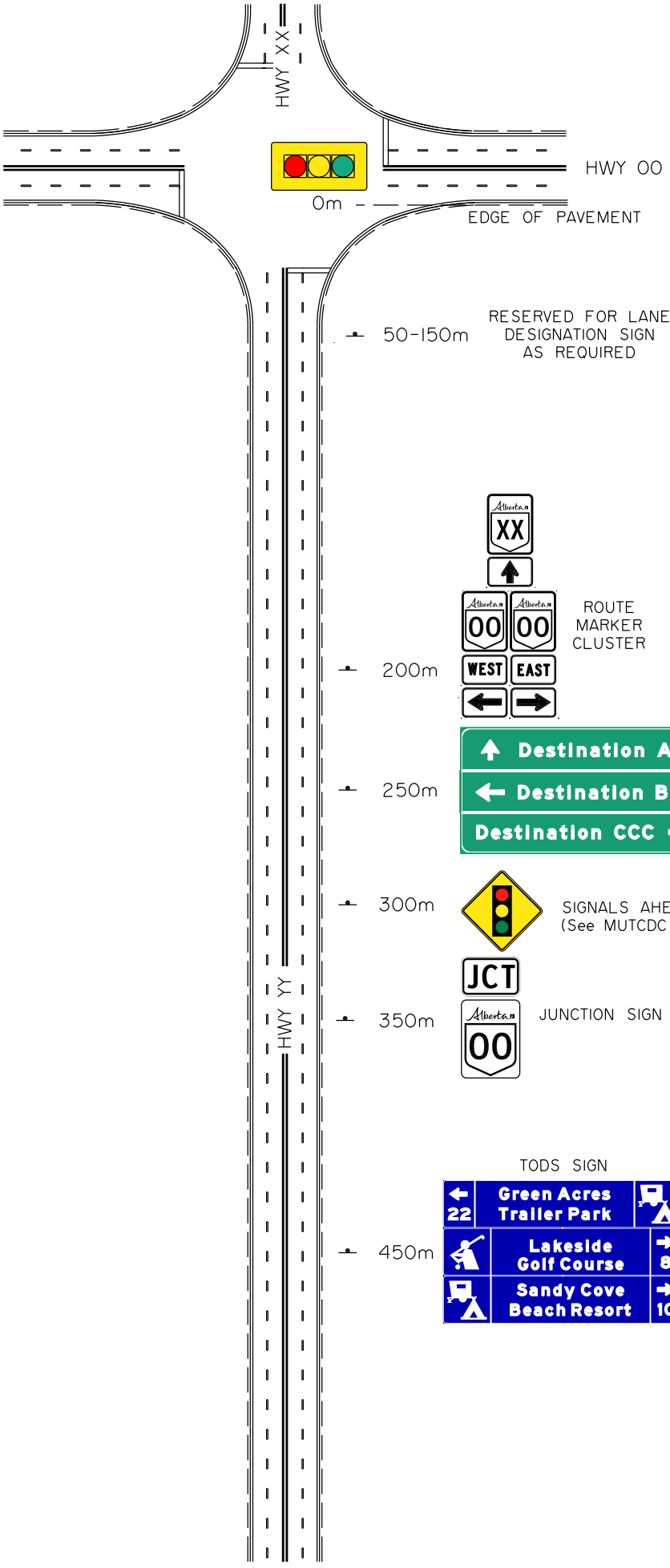
Alberta Government

DRAWING
TCS-A4-430C

Date: April 2014

**TYPICAL SIGNING DISTANCES ON HIGH SPEED (HIGHER THAN 70 km/h) STOP CONTROL APPROACH**

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | |
|---|---|---|---|




NOTES:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES ONLY.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE TO BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY. ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.
4. IF HWY YY = HWY XX, THERE IS NO NEED FOR ROUTE MARKER HWY XX ON TOP OF ROUTE MARKER CLUSTER ASSEMBLY.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 2 | | | |
| 1 | | | |

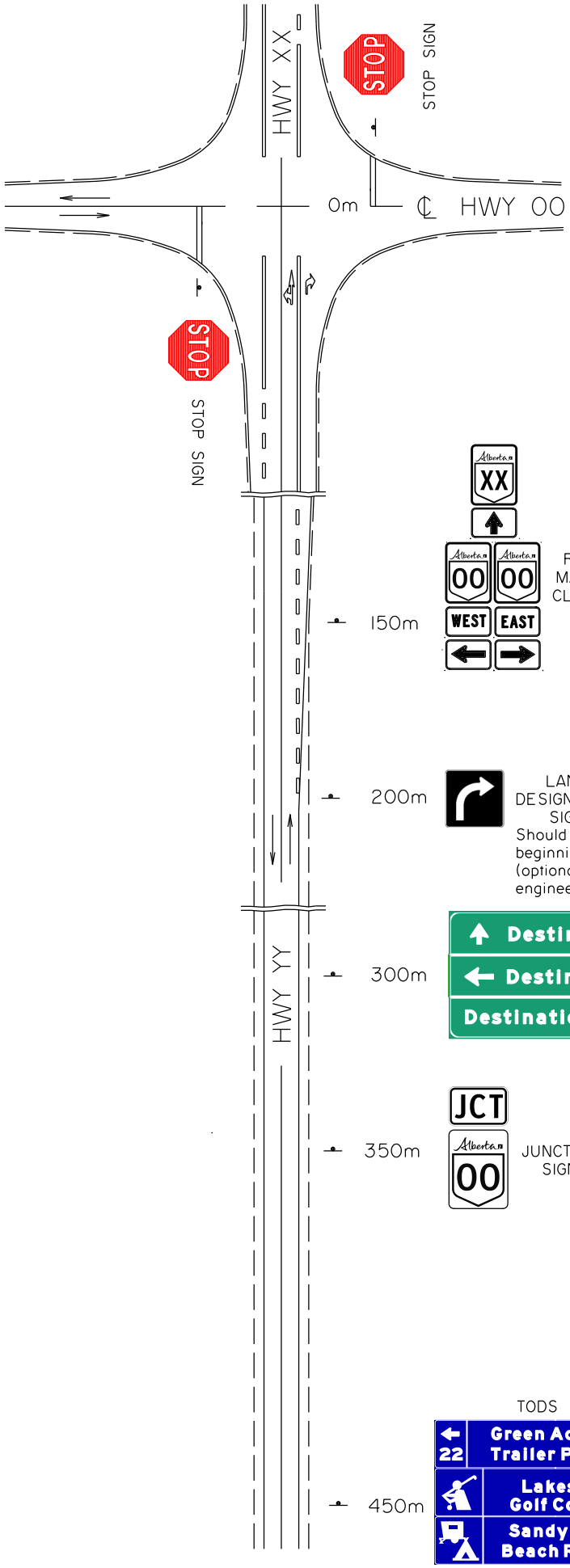
Alberta Government

DRAWING
TCS-A4-430D

Date: April 2014

**TYPICAL SIGNING DISTANCES ON SIGNAL CONTROL APPROACH**

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | |
|---|---|---|---|




NOTES:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES ONLY.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE TO BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY. ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.
4. IF HWY YY = HWY XX, THERE IS NO NEED FOR ROUTE MARKER HWY XX ON TOP OF ROUTE MARKER CLUSTER ASSEMBLY.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 2 | | | |
| 1 | | | |

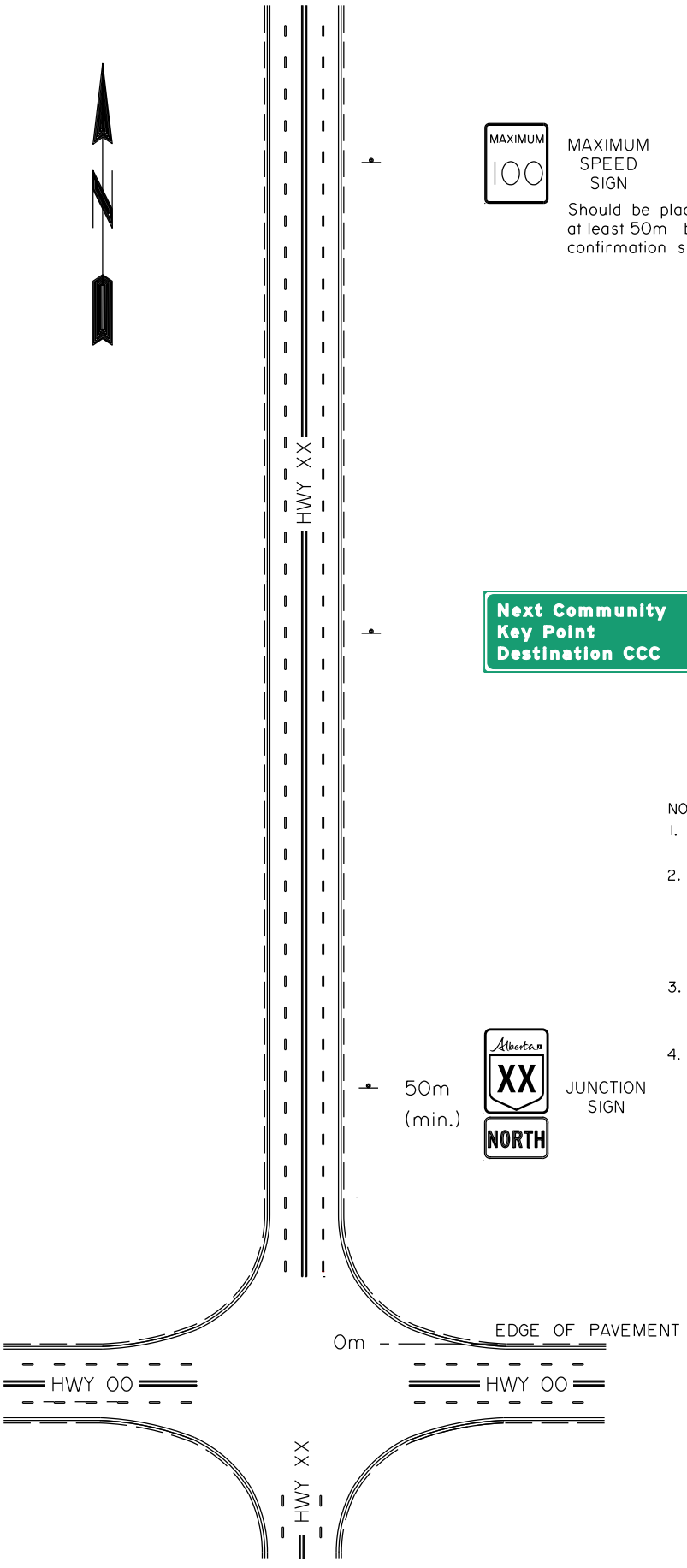
Alberta Government

DRAWING
TCS-A4-430E

Date: April 2014

**TYPICAL SIGNING DISTANCES ON NO CONTROL APPROACH**

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | |
|---|---|---|---|







MAXIMUM SPEED SIGN

Should be placed at least 50m beyond confirmation sign


CONFIRMATION SIGN

Should be placed beyond any acceleration lane or taper, minimum 100m from edge of pavement.




JUNCTION SIGN

NOTES:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES ONLY.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE TO BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY. ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.
4. PLACEMENT OF SPEED LIMIT SIGN IS DESIRABLE IF THE SPEED LIMIT ON THE DEPARTURE IS DIFFERENT THAN THE SPEED ON ANY OF THE APPROACHES.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 2 | | | |
| 1 | | | |

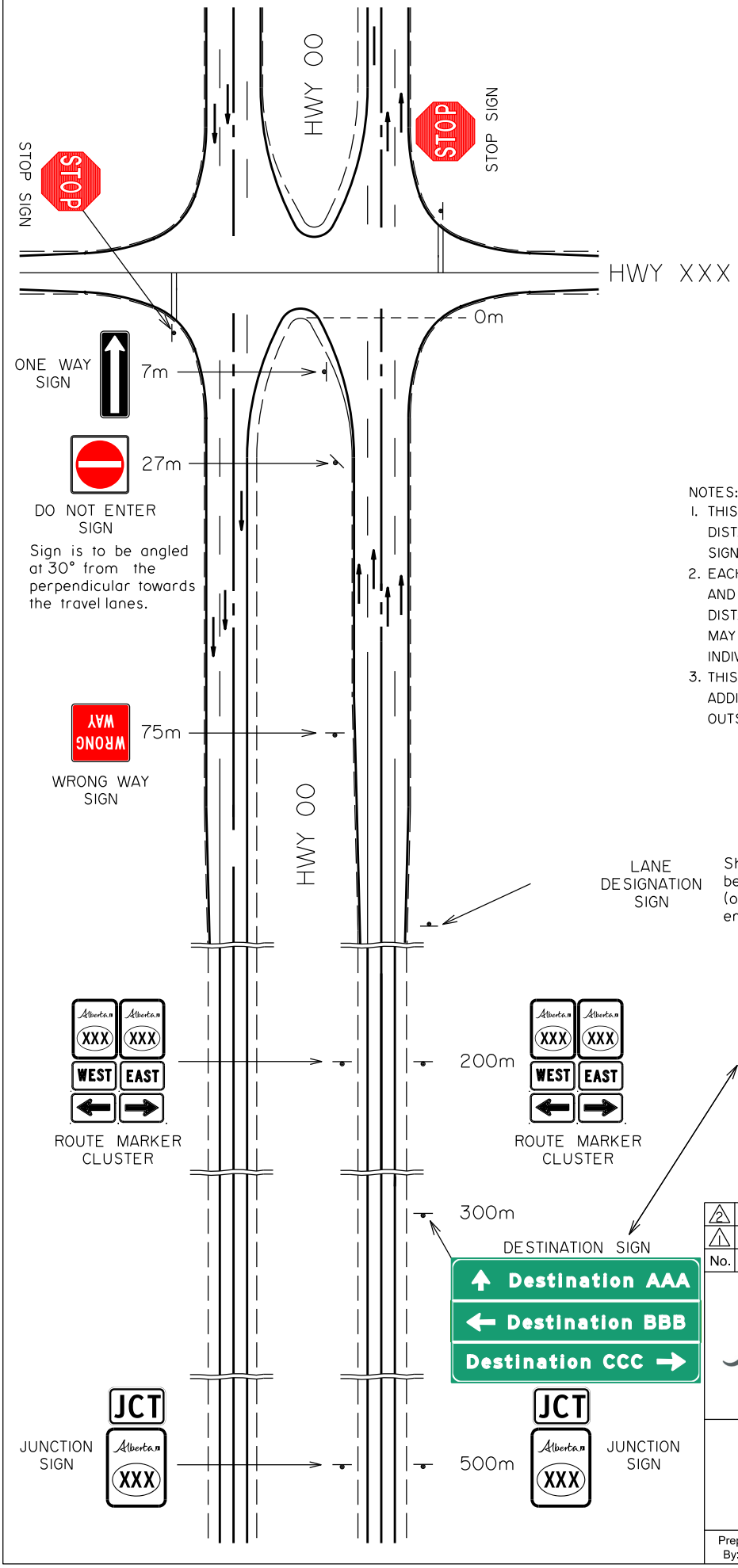
Alberta Government

DRAWING
TCS-A4-430F

Date: April 2014

# TYPICAL DEPARTURE SIGNING PLACEMENT

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | |
|---|---|---|---|




NOTES:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES FOR THE RIGHT ROADWAY ONLY. SIGNING ALONG LEFT ROADWAY IS ALSO REQUIRED.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE TO BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY. ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.

| No. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 2 | | | |
| 1 | | | |

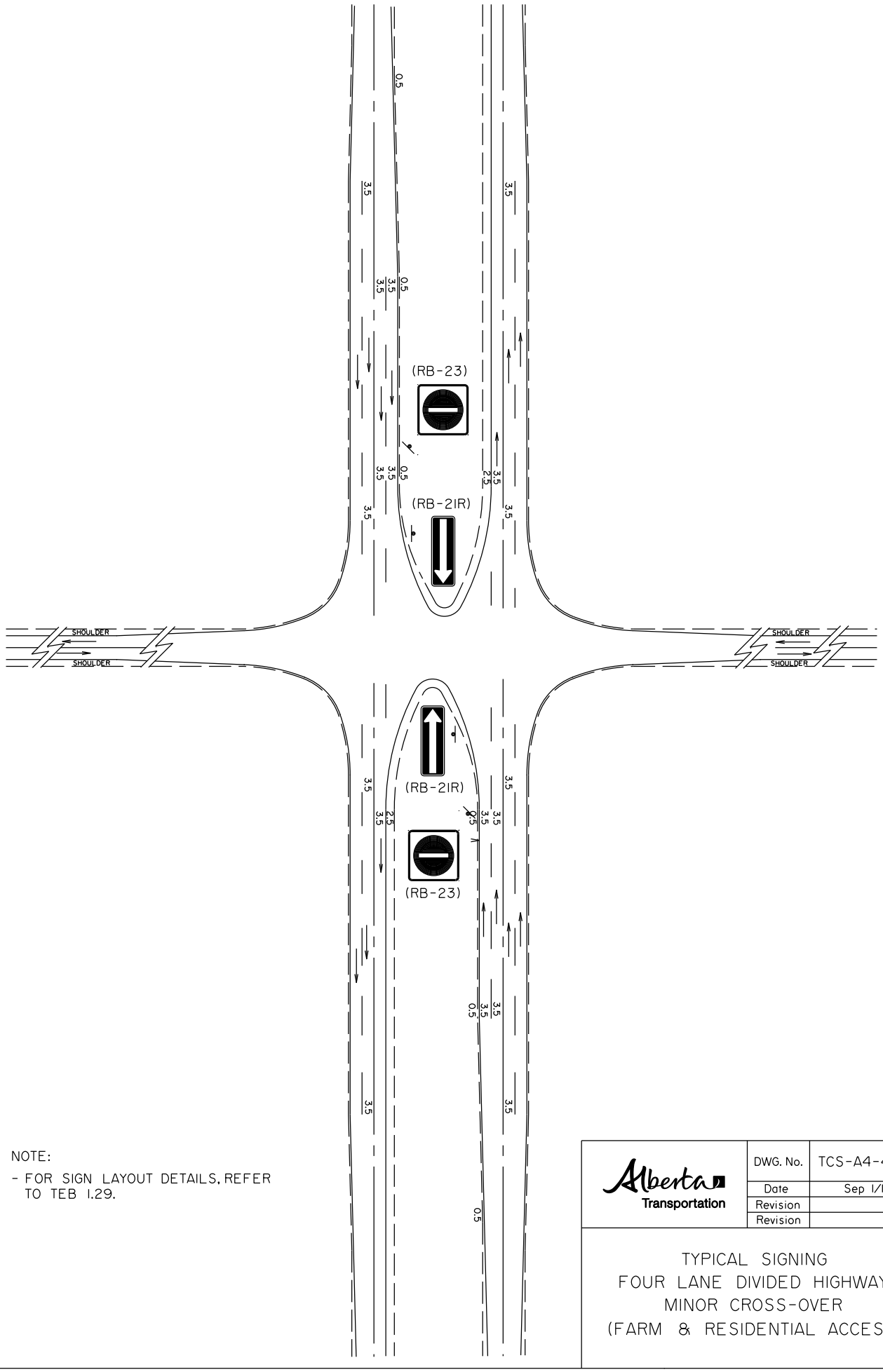
Alberta Government

DRAWING TCS-A4-430G

Date: April 2014

# TYPICAL SIGNING DISTANCES ON HIGH SPEED NO CONTROL DIVIDED APPROACH

| Prepared By: SL | Checked By: RC | Scale: N.T.S. | |
|---|---|---|---|



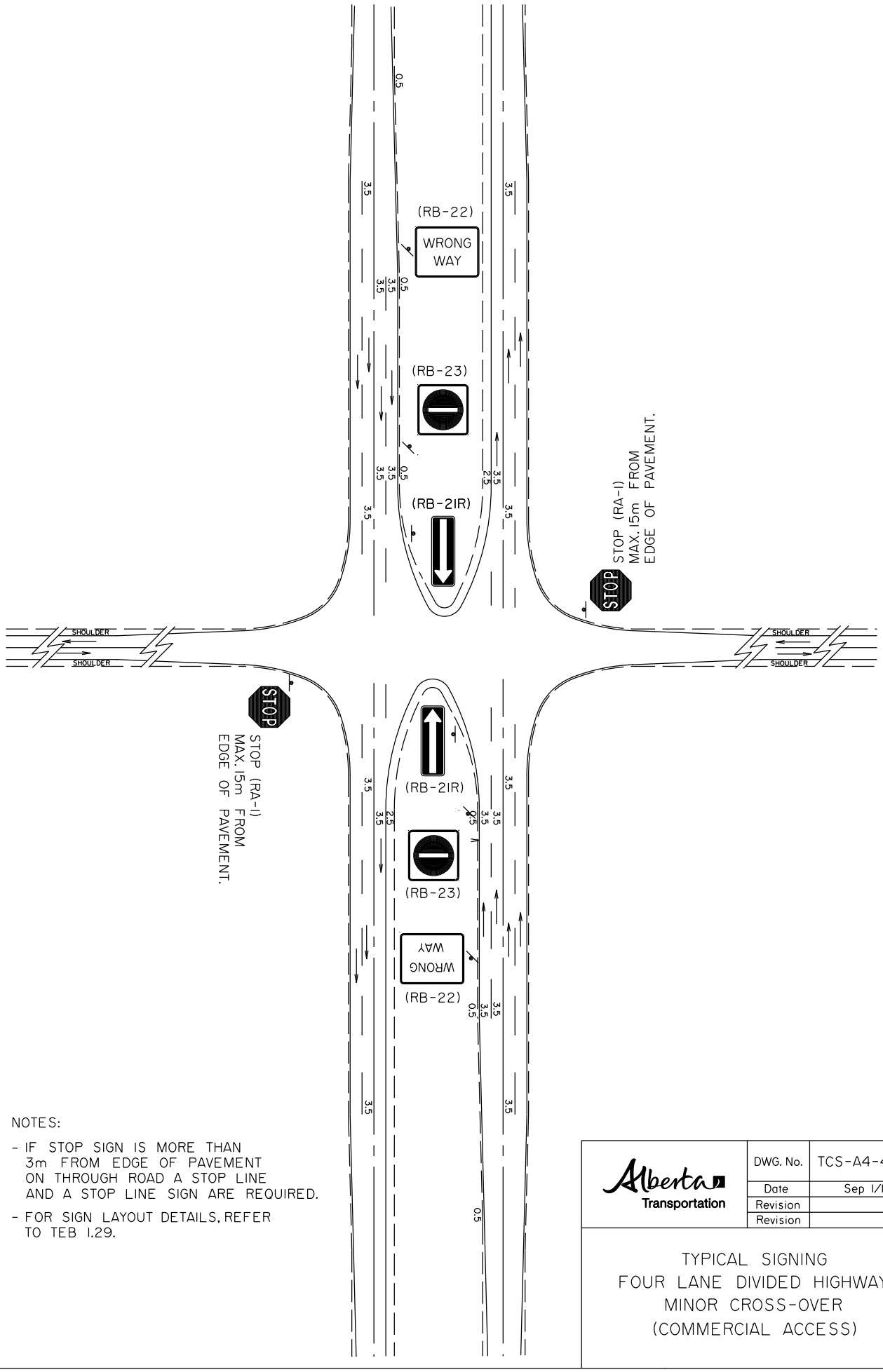

NOTE:

- FOR SIGN LAYOUT DETAILS, REFER TO TEB 1.29.

Alberta Transportation

| | |
|---|---|
| DWG. No. | TCS-A4-435A |
| Date | Sep 1/16 |
| Revision | |
| Revision | |

TYPICAL SIGNING
FOUR LANE DIVIDED HIGHWAY
MINOR CROSS-OVER
(FARM & RESIDENTIAL ACCESS)



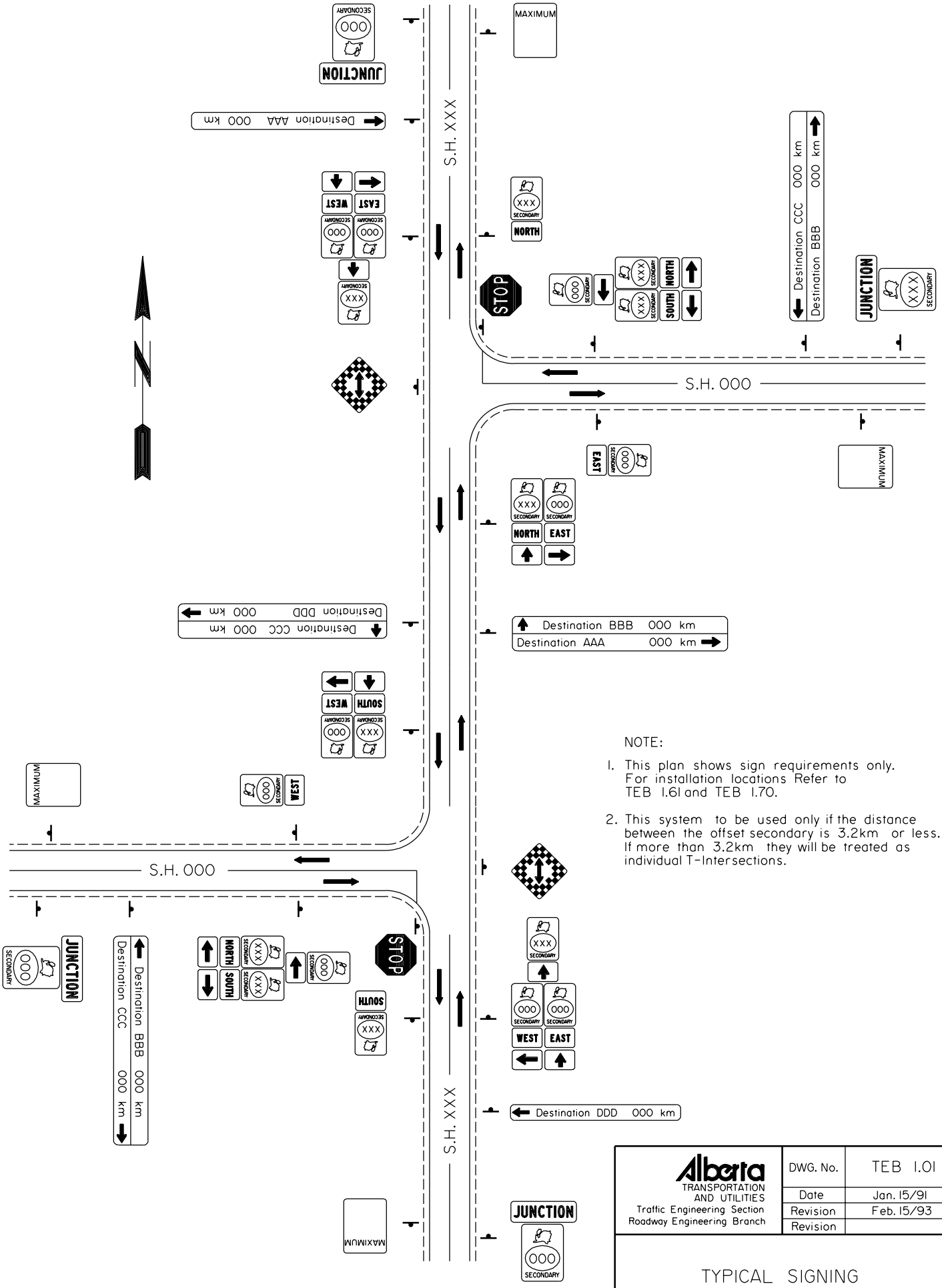

NOTES:

- IF STOP SIGN IS MORE THAN 3m FROM EDGE OF PAVEMENT ON THROUGH ROAD A STOP LINE AND A STOP LINE SIGN ARE REQUIRED.
- FOR SIGN LAYOUT DETAILS, REFER TO TEB 1.29.

Alberta Transportation

| | |
|---|---|
| DWG. No. | TCS-A4-435B |
| Date | Sep 1/16 |
| Revision | |
| Revision | |

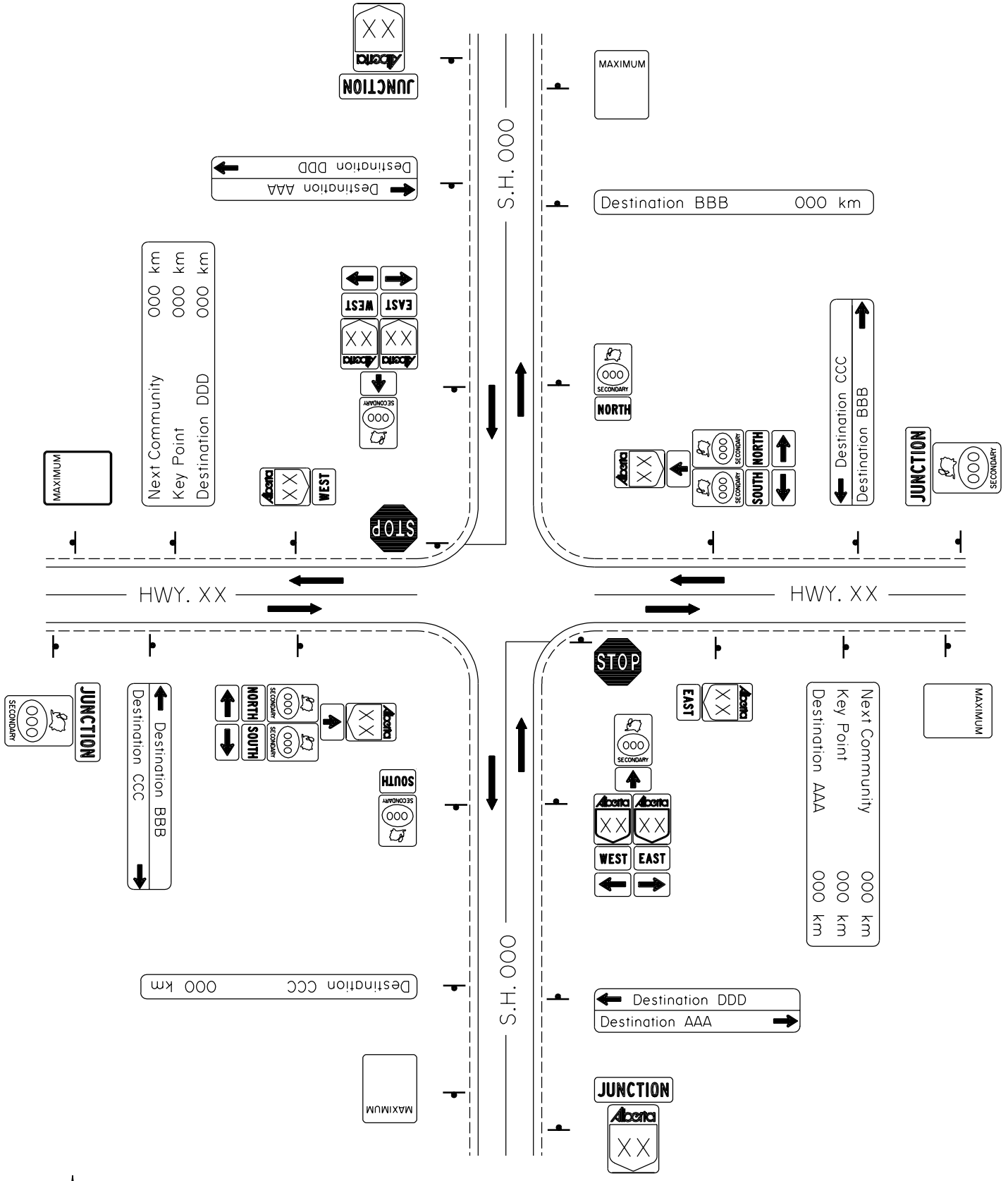
# TYPICAL SIGNING
# FOUR LANE DIVIDED HIGHWAY
# MINOR CROSS-OVER
# (COMMERCIAL ACCESS)




Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.01 |
| Date | Jan. 15/91 |
| Revision | Feb. 15/93 |
| Revision | |

# TYPICAL SIGNING AT THE JUNCTION OF TWO OFFSET SECONDARY HIGHWAYS



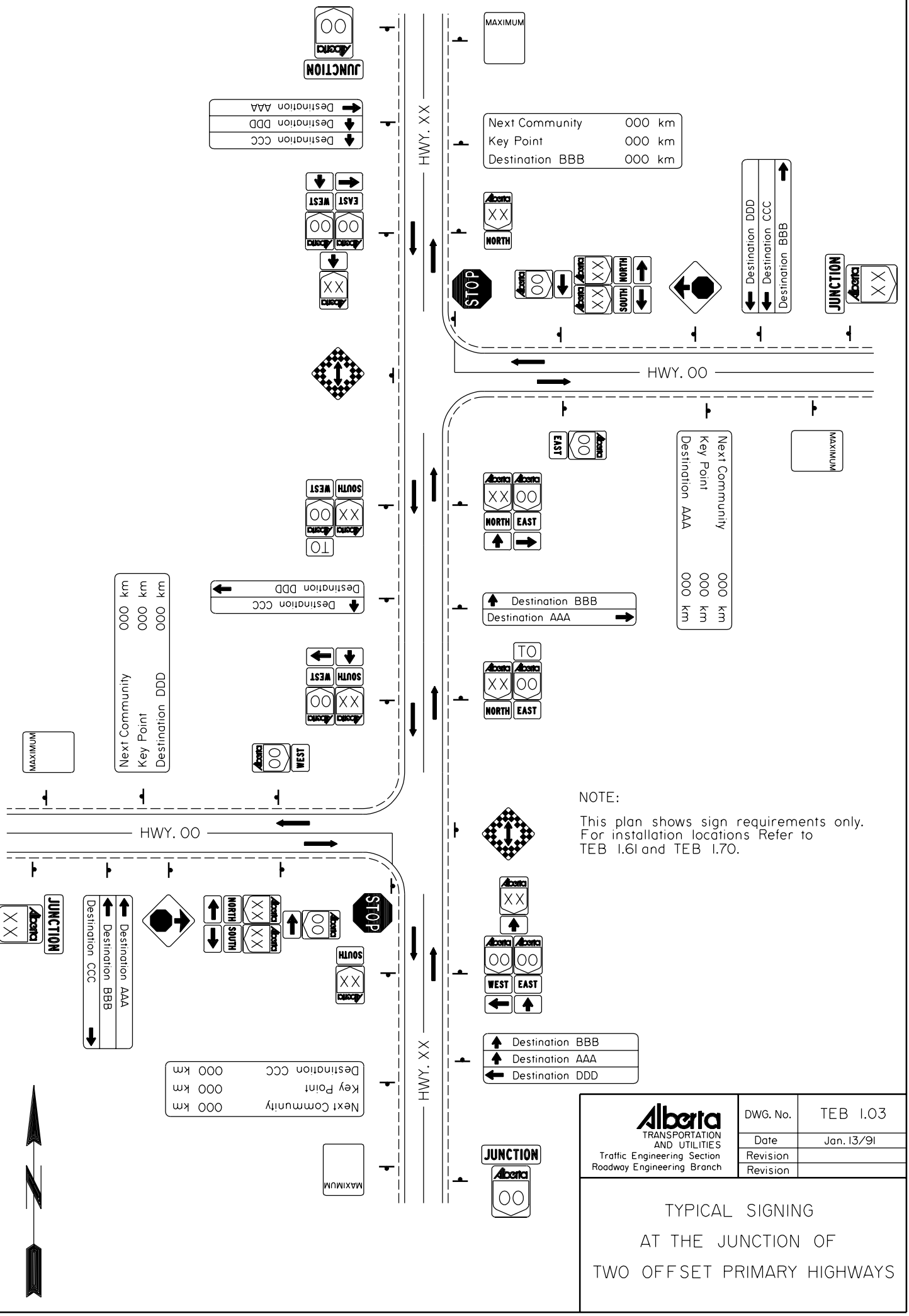

NOTE:

This plan shows sign requirements only.
For installation locations Refer to
TEB 1.61 and TEB 1.70.

Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.02 |
| Date | Jan. 09/92 |
| Revision | |
| Revision | |

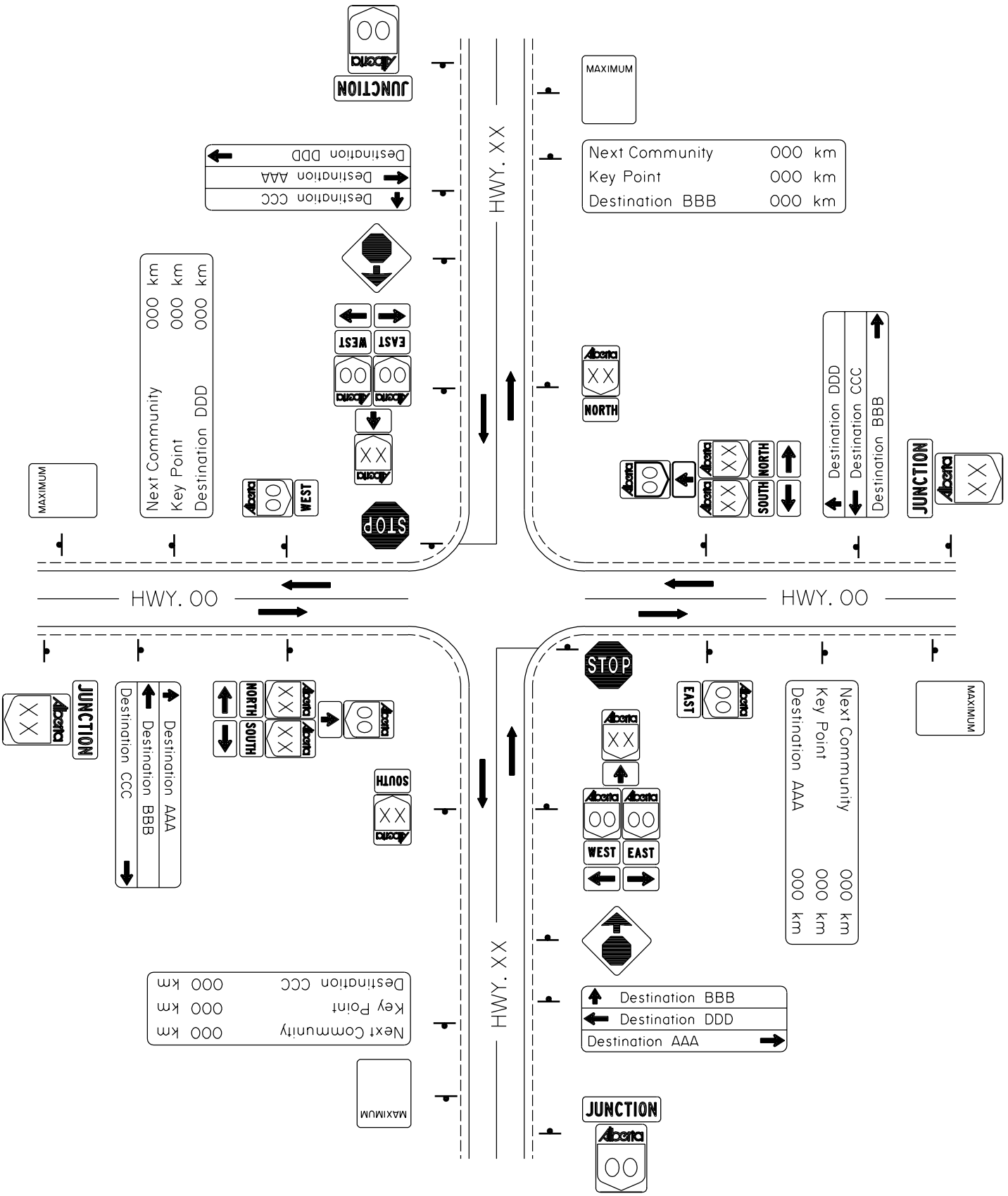
# TYPICAL SIGNING AT THE JUNCTION OF A PRIMARY AND SECONDARY HIGHWAY




Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.03 |
| Date | Jan. 13/91 |
| Revision | |
| Revision | |

# TYPICAL SIGNING AT THE JUNCTION OF TWO OFFSET PRIMARY HIGHWAYS



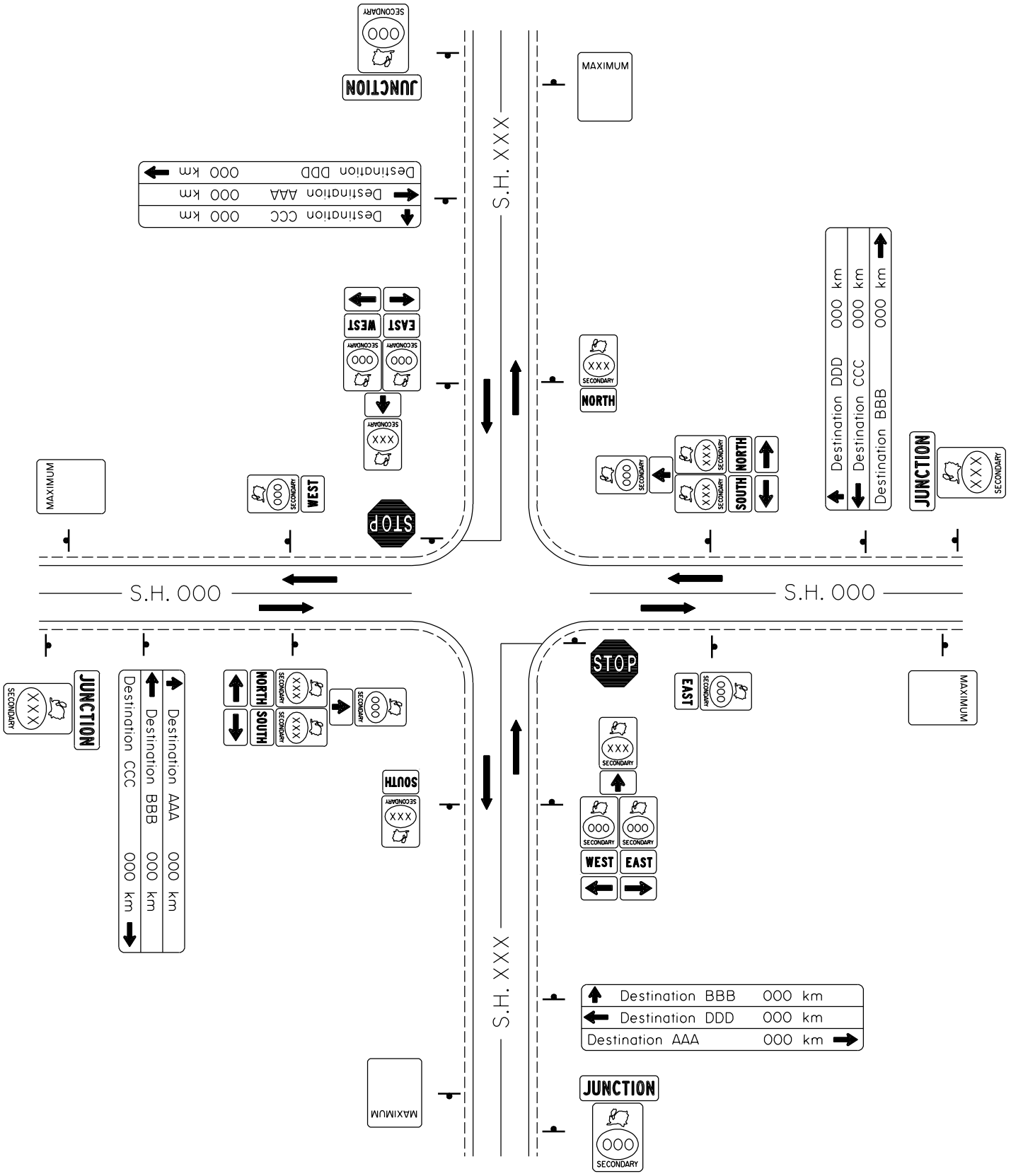

NOTE:

This plan shows sign requirements only.
For installation locations Refer to
TEB 1.61 and TEB 1.70.

Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.04 |
| Date | Jan. 07/91 |
| Revision | |
| Revision | |

# TYPICAL SIGNING AT THE JUNCTION OF TWO PRIMARY HIGHWAYS



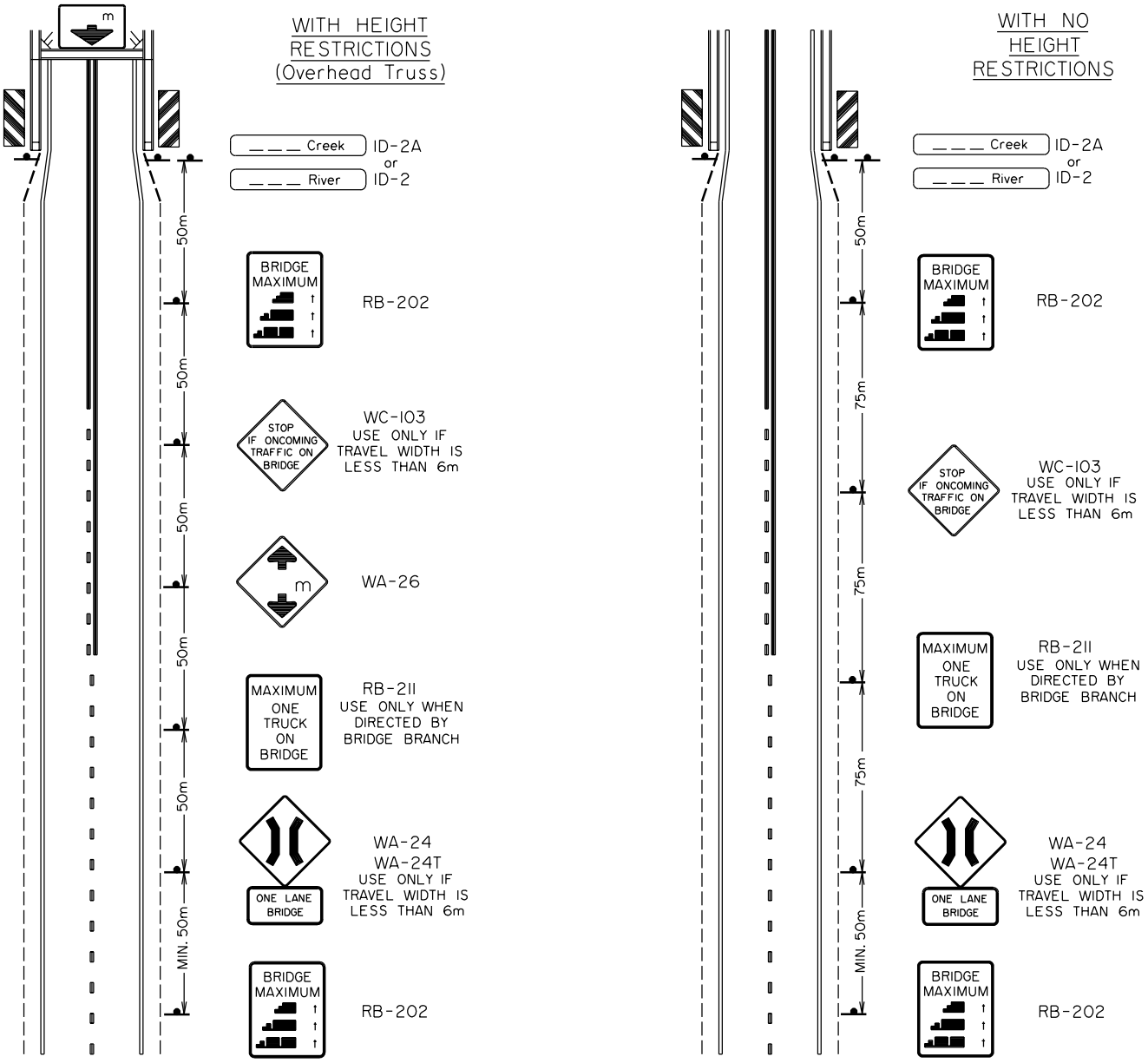

NOTE:

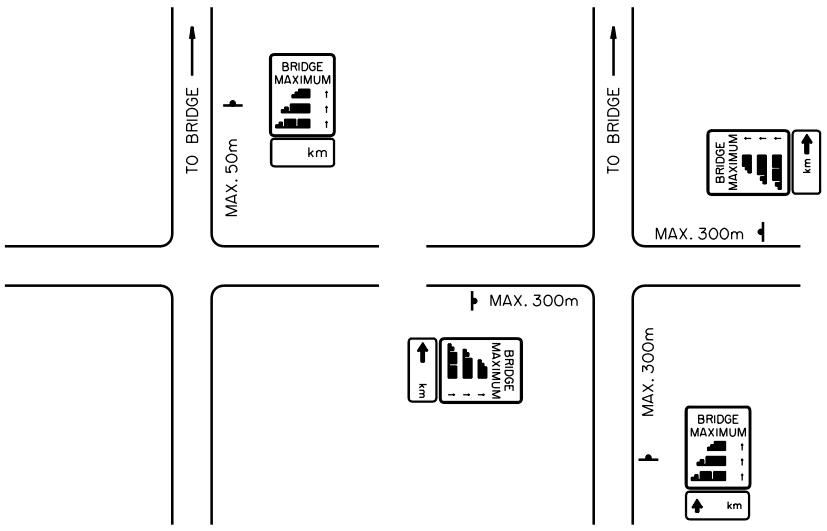
This plan shows sign requirements only.
For installation locations Refer to
TEB 1.61 and TEB 1.70.

Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.05 |
| Date | Jan. 03/92 |
| Revision | |
| Revision | |

# TYPICAL SIGNING AT THE JUNCTION OF TWO SECONDARY HIGHWAYS



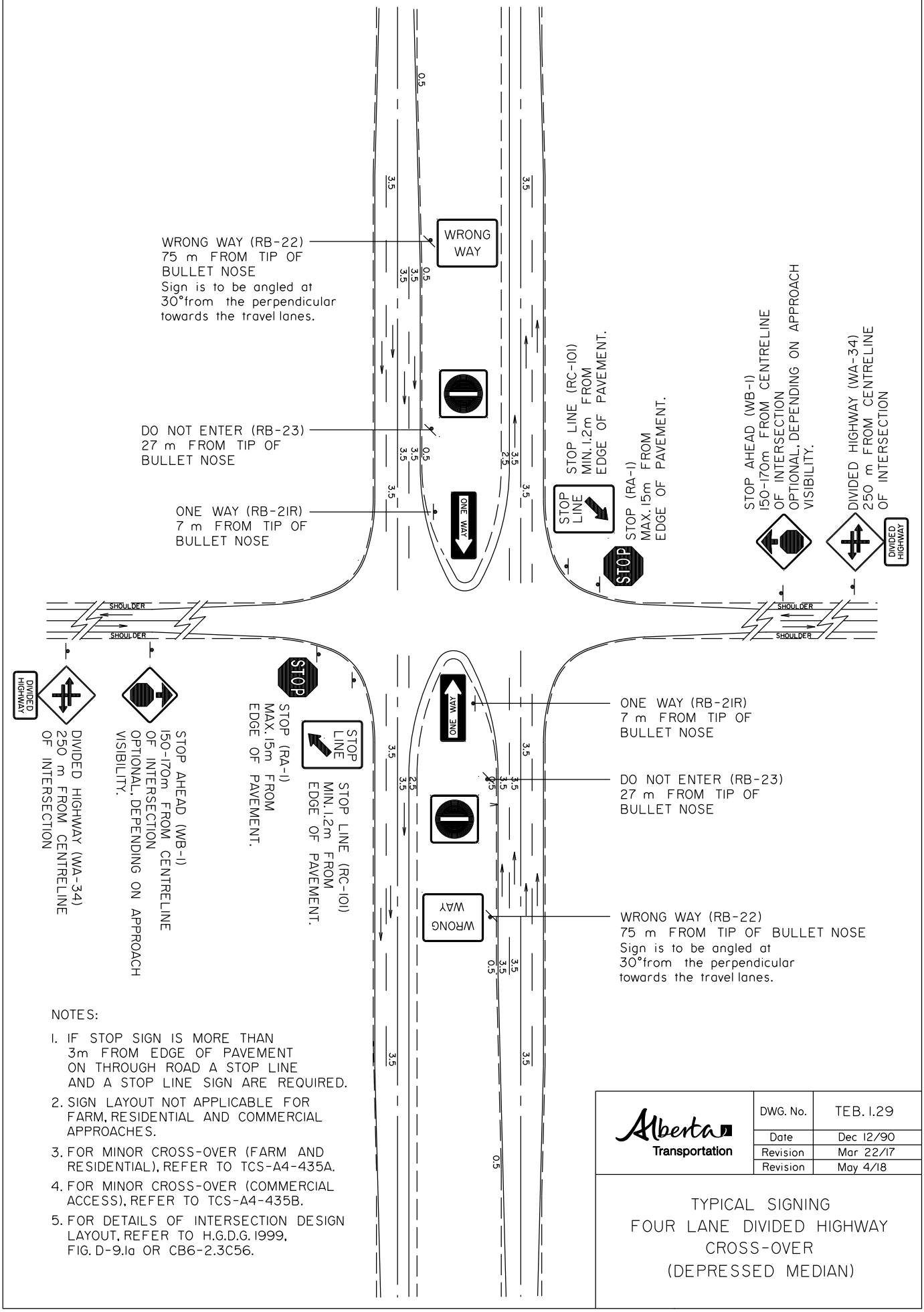

SIGNING DETAIL FOR LAST INTERSECTION IN ADVANCE OF BRIDGE

NOTES:

1. This plan shows typical signing only.
2. Distances may have to be adjusted according to individual circumstances.
3. If the bridge deck is less than 6.0m wide, no centreline should be painted on the deck.
4. Signs to be placed both left and right of divided roads.

| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.28 |
| | Date | Oct.19/91 |
| | Revision | |
| | Revision | |

# TYPICAL SIGNING FOR BRIDGE APPROACHES



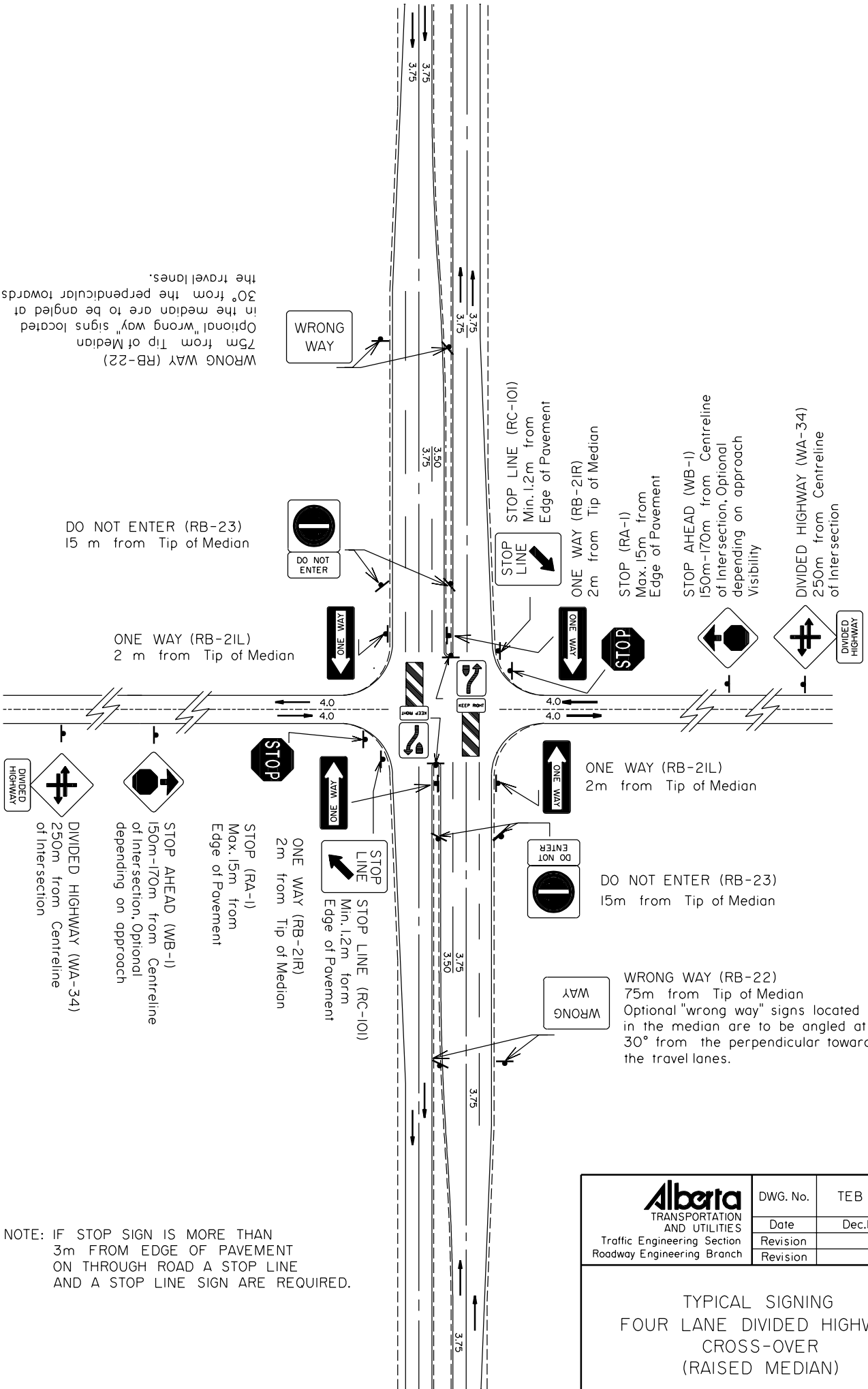

NOTES:

1. IF STOP SIGN IS MORE THAN 3m FROM EDGE OF PAVEMENT ON THROUGH ROAD A STOP LINE AND A STOP LINE SIGN ARE REQUIRED.
2. SIGN LAYOUT NOT APPLICABLE FOR FARM, RESIDENTIAL AND COMMERCIAL APPROACHES.
3. FOR MINOR CROSS-OVER (FARM AND RESIDENTIAL), REFER TO TCS-A4-435A.
4. FOR MINOR CROSS-OVER (COMMERCIAL ACCESS), REFER TO TCS-A4-435B.
5. FOR DETAILS OF INTERSECTION DESIGN LAYOUT, REFER TO H.G.D.G. 1999, FIG. D-9.1a OR CB6-2.3C56.

Alberta Transportation

| | |
|---|---|
| DWG. No. | TEB. 1.29 |
| Date | Dec 12/90 |
| Revision | Mar 22/17 |
| Revision | May 4/18 |

# TYPICAL SIGNING
# FOUR LANE DIVIDED HIGHWAY CROSS-OVER
# (DEPRESSED MEDIAN)

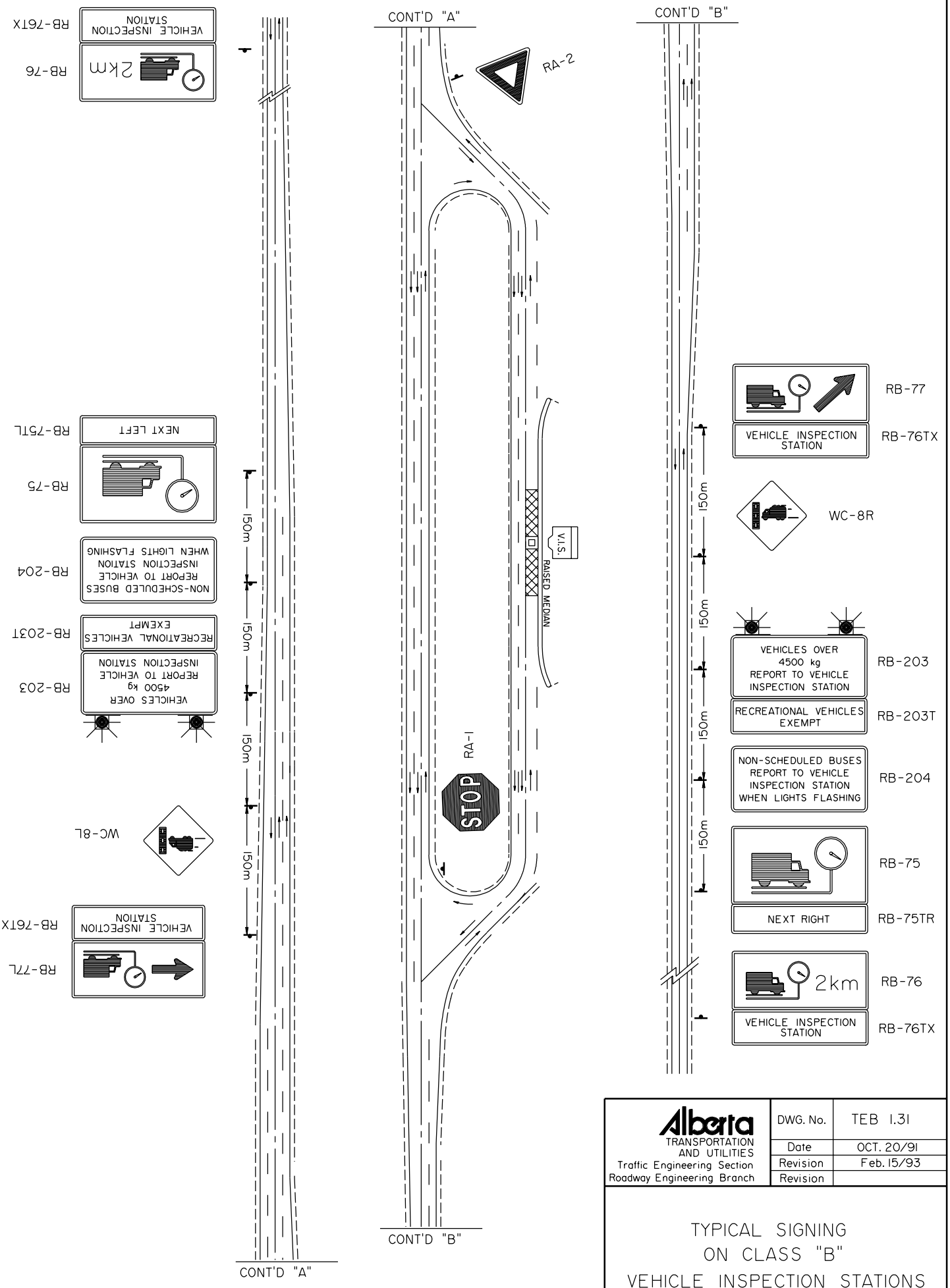



NOTE: IF STOP SIGN IS MORE THAN 3m FROM EDGE OF PAVEMENT ON THROUGH ROAD A STOP LINE AND A STOP LINE SIGN ARE REQUIRED.

Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.30 |
| Date | Dec.14/90 |
| Revision | |
| Revision | |

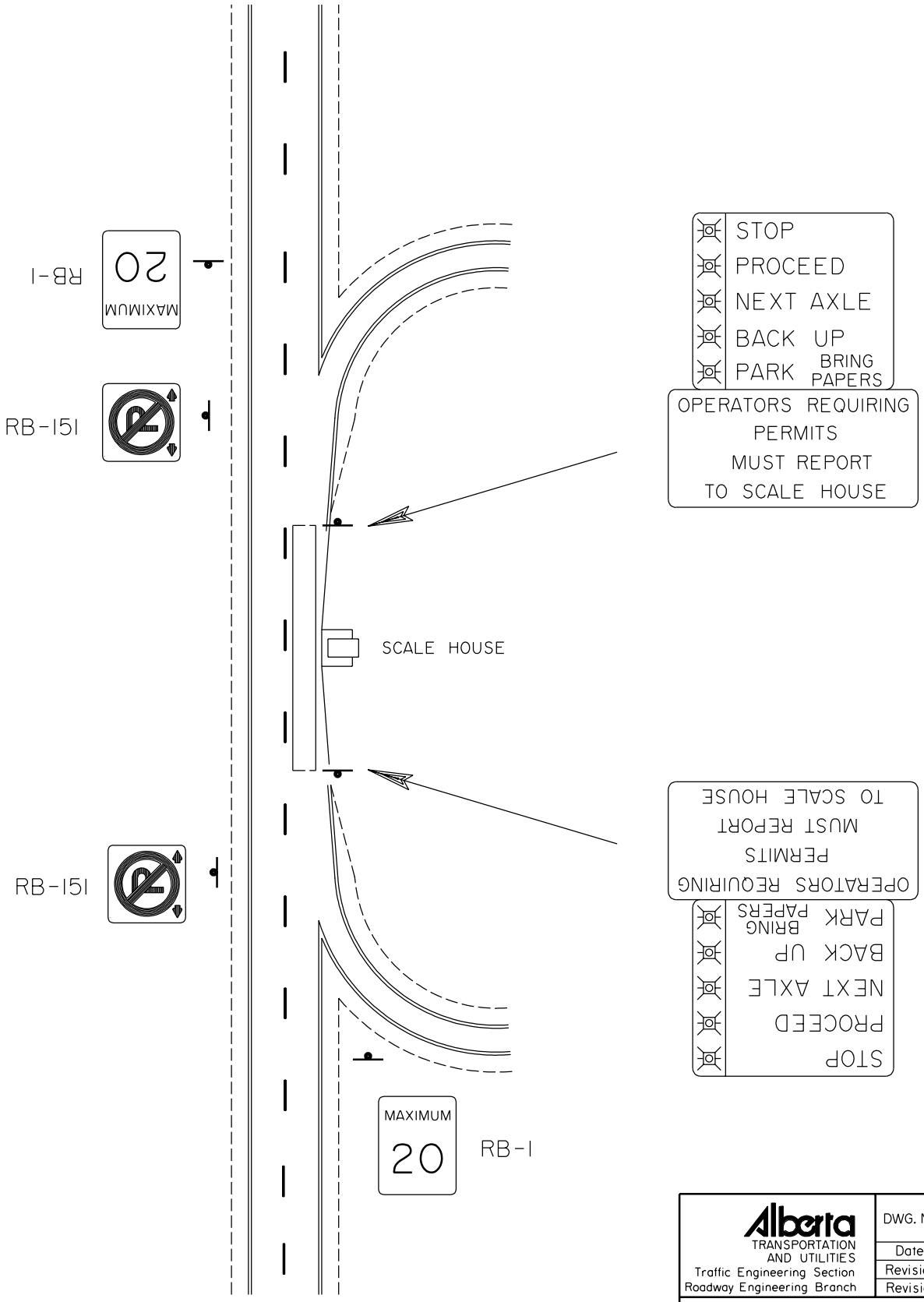
# TYPICAL SIGNING FOUR LANE DIVIDED HIGHWAY CROSS-OVER (RAISED MEDIAN)




Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.31 |
| Date | OCT. 20/91 |
| Revision | Feb. 15/93 |
| Revision | |

# TYPICAL SIGNING ON CLASS "B" VEHICLE INSPECTION STATIONS

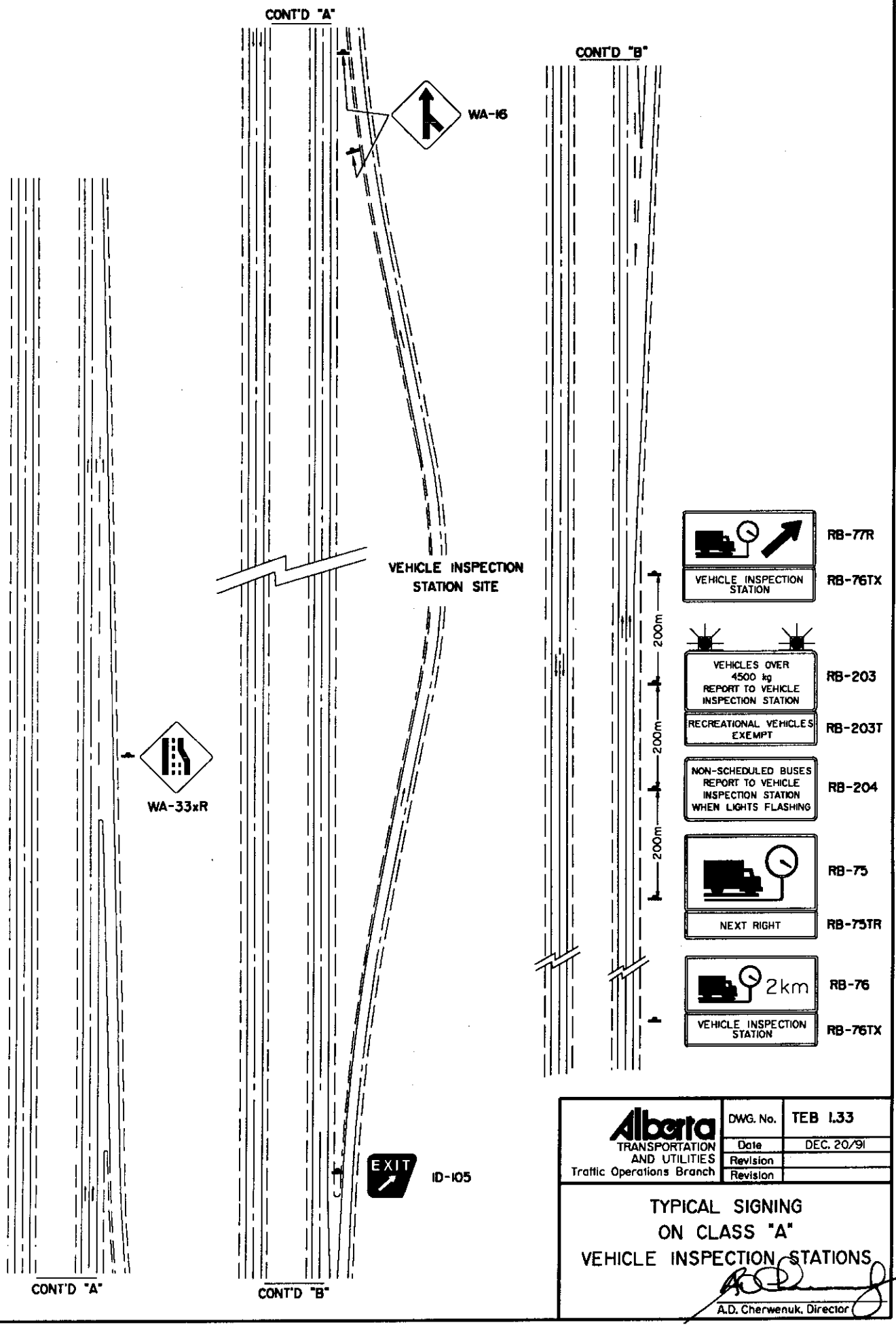



NOTE:

1. Class "A" Vehicle Inspection Sites require signing for one direction only.

| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.32 |
| | Date | 17/10/91 |
| | Revision | |
| | Revision | |

# TYPICAL SIGNING IN A VEHICLE INSPECTION STATION SITE



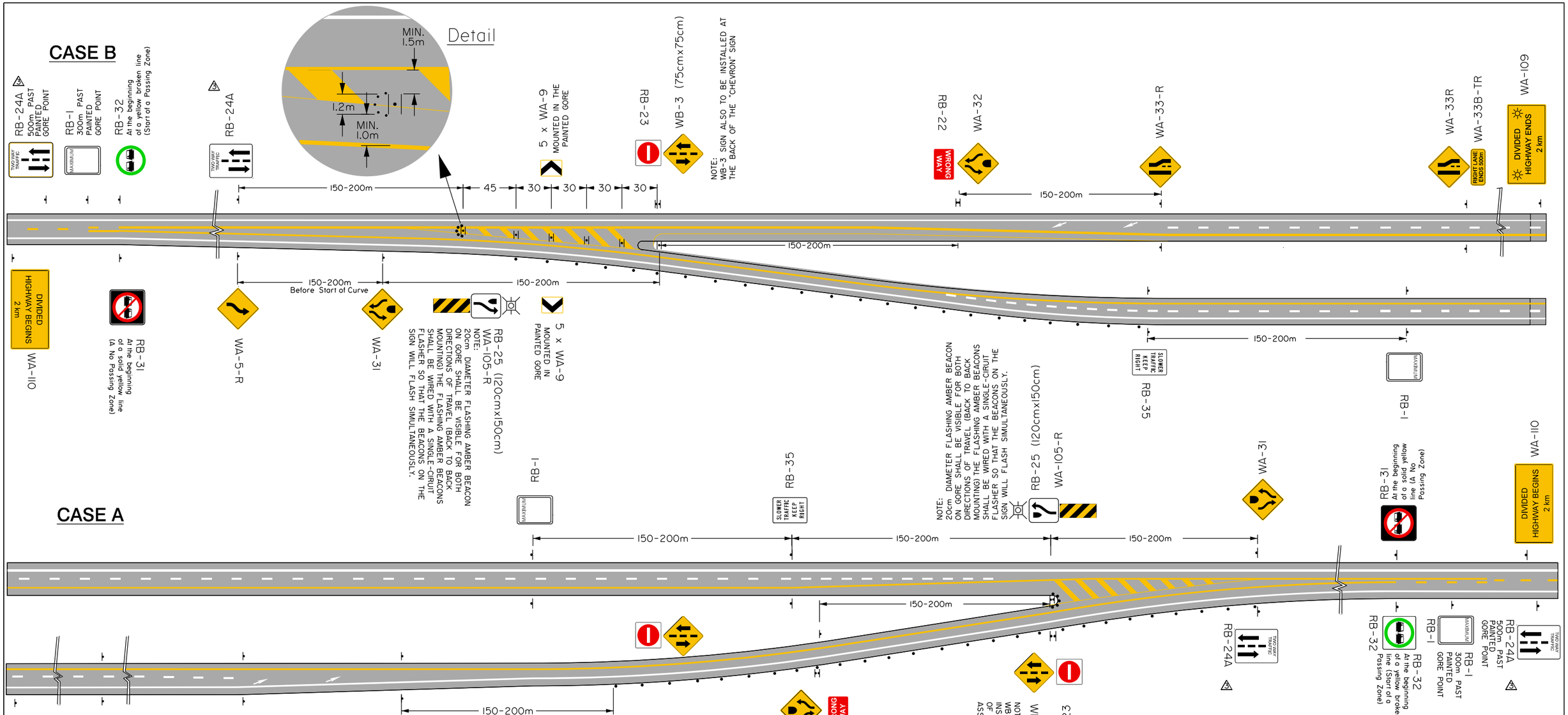

Alberta
TRANSPORTATION AND UTILITIES
Traffic Operations Branch

| | |
|---|---|
| DWG. No. | TEB 1.33 |
| Date | DEC. 20/91 |
| Revision | |
| Revision | |

# TYPICAL SIGNING ON CLASS "A" VEHICLE INSPECTION STATIONS

A.D. Cherwenuk, Director

## CASE B




## CASE A




NOTE:
1) The recommended delineators spacing along the transition tapers is 30 metres

2) A minimum of five delineators should be provided around the "Keep Right" assembly.

3) Of the two geometric layouts shown, case A is preferred due to simplicity of signing and operation. i.e. where possible it is better that traffic entering a divided highway has a straight alignment rather than a curve or taper.

| No. | REVISIONS | BY | DATE |
|---|---|---|---|
| 3 | Sign number updated. | EY | Nov. 18 |
| 2 | Replaces Drawings TEB 1.49 and TEB 1.50 | BB | Jan. 02 |
| 1 | Revised | BB | Jan. 02 |

Approved:

**ORIGINAL SIGNED BY A.D. Cherwenuk**

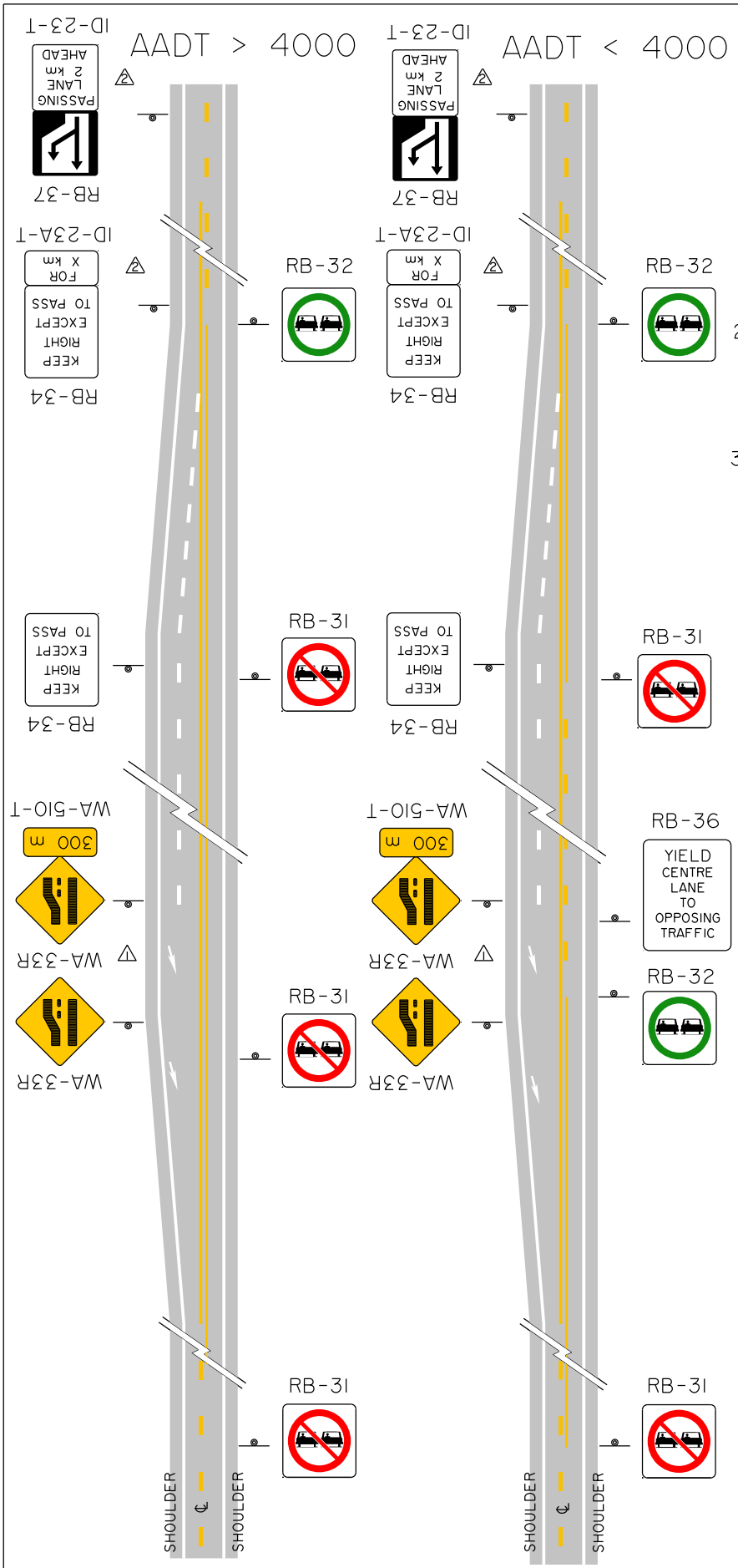
Executive Director, Technical Standards Branch

Date: OCT 26/91

Alberta

# TYPICAL SIGNING FOR DIVIDED HIGHWAY TRANSITIONS

| Prepared By: M.T. | Checked By: B.K. | Scale: N.T.S. | Dwg No.: TEB 1.49 |
|---|---|---|---|




NOTE:

1. AADT>4000
   Passing prohibited in single lane direction.
2. AADT<4000
   Passing permitted in single lane direction provided sufficient sight is available.
3. The RB-34 and the RB-32 symbol must be placed at 500m intervals throughout the length of the passing lane and the RB-36 sign must be placed at 800m intervals throughout the passing permitted area.

| No. | REVISIONS | BY | DATE |
|---|---|---|---|
| 3 | | | |
| 2 | Tab signs added | N.C. | JUL/17 |
| 1 | WA-33R sign added; tabs changed; merge arrows relocated; broken white line shortened | R.D. | AUG/01 |

Approved:

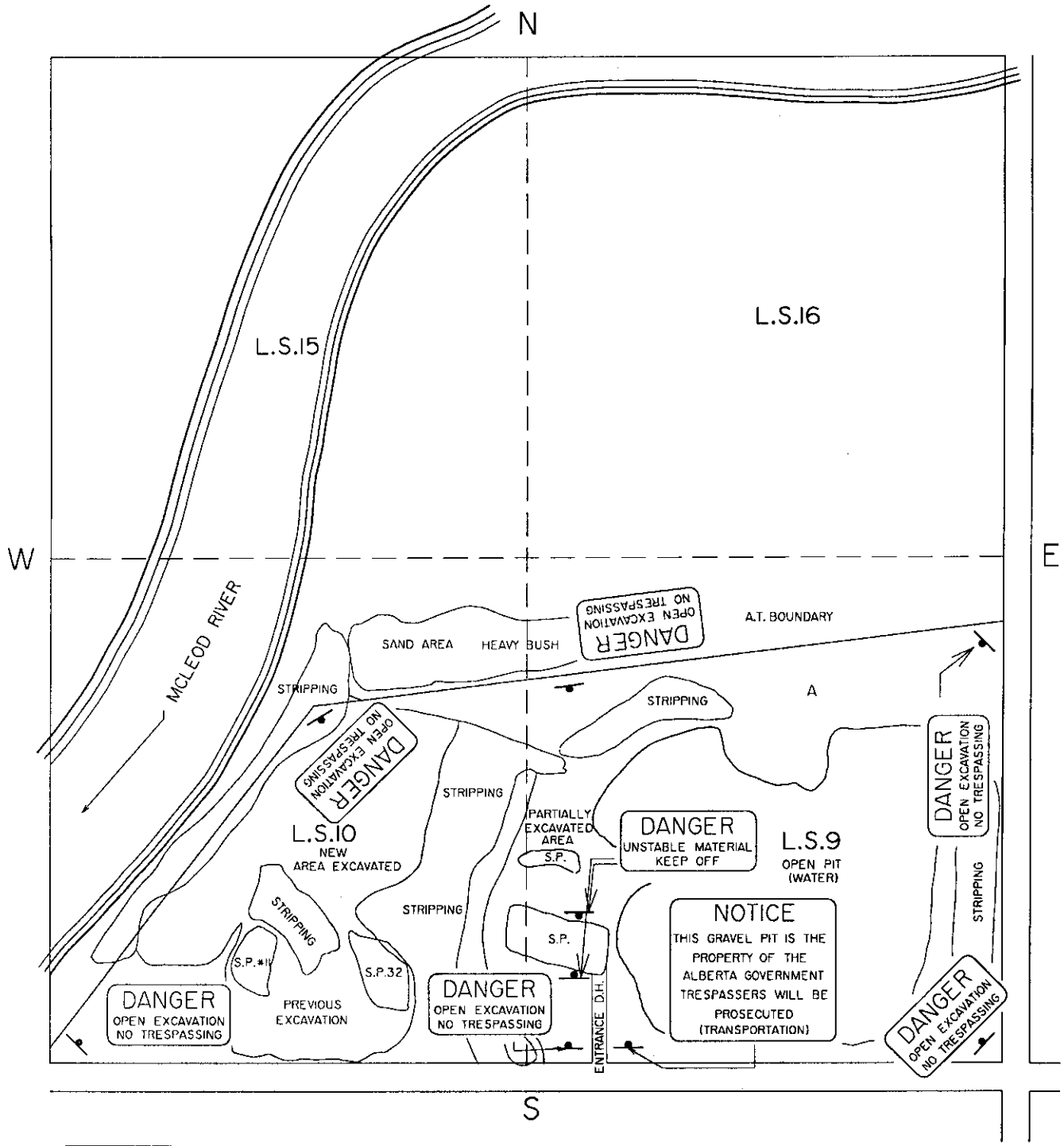
Executive Director,
Technical Standards Branch

Date: APRIL 4/91

Alberta

# TYPICAL SIGNING FOR PASSING AND CLIMBING LANES

| Prepared By: S.L. | Checked By: R.D. | Scale: N.T.S. | Dwg No.: TEB 1.58 |
|---|---|---|---|




DANGER
OPEN EXCAVATION
NO TRESPASSING

MISC-1

NOTICE
THIS GRAVEL PIT IS THE PROPERTY OF THE ALBERTA GOVERNMENT TRESPASSERS WILL BE PROSECUTED (TRANSPORTATION)

MISC-3

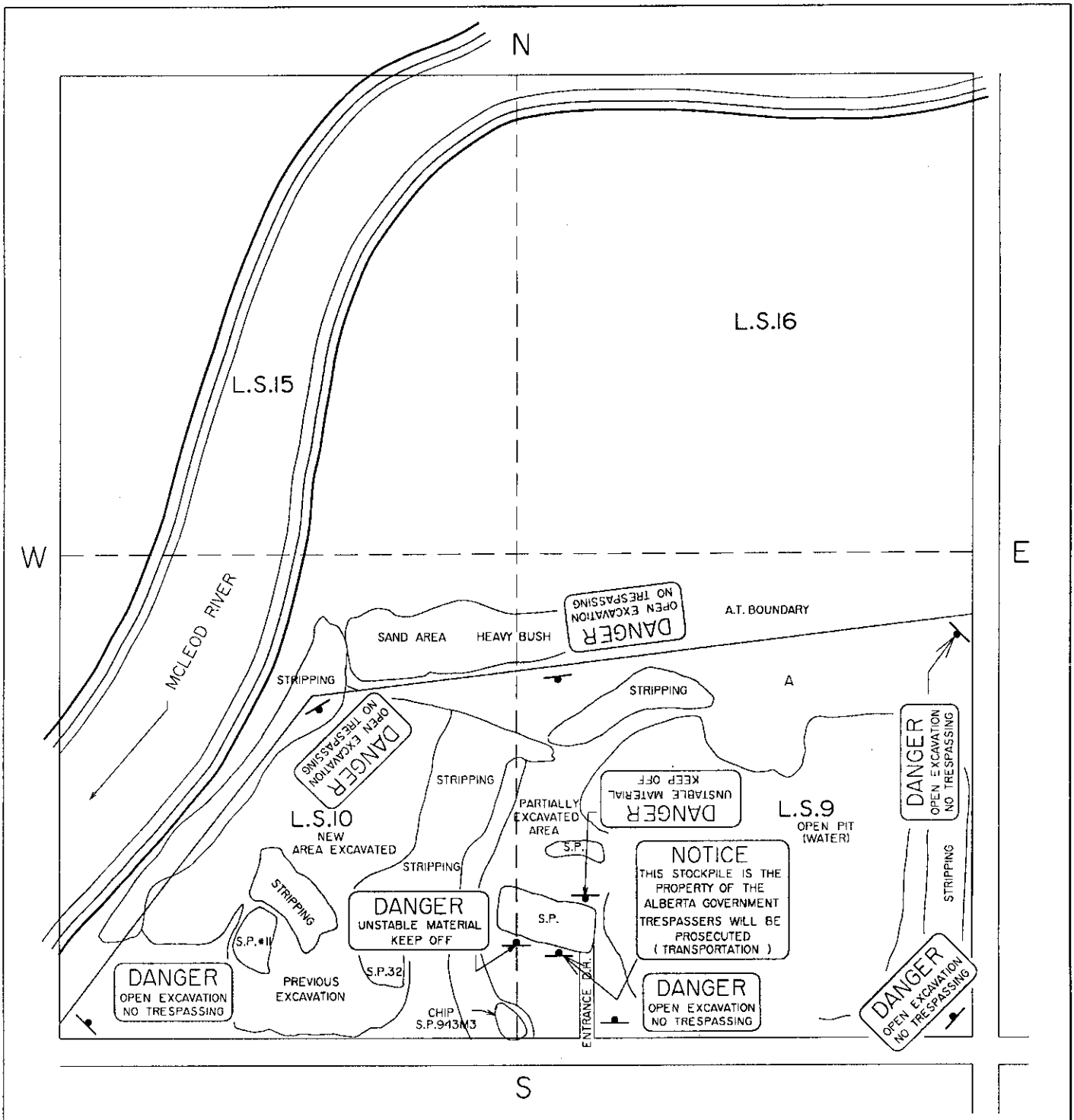
DANGER
UNSTABLE MATERIAL
KEEP OFF

MISC-4

| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.59 |
| | Date | NOV. 17/91 |
| | Revision | |
| | Revision | |

TYPICAL SIGNING
SAND AND GRAVEL PITS
CROWN OR TRANSPORTATION
AND UTILITIES

A.D. Cherwenuk, Director




DANGER
OPEN EXCAVATION
NO TRESPASSING

MISC-1

NOTICE
THIS STOCKPILE IS THE
PROPERTY OF THE
ALBERTA GOVERNMENT
TRESPASSERS WILL BE
PROSECUTED
( TRANSPORTATION )

MISC-4

DANGER
UNSTABLE MATERIAL
KEEP OFF

MISC-2

Alberta
TRANSPORTATION
AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.60 |
| Date | NOV. 17/91 |
| Revision | |
| Revision | |

# TYPICAL SIGNING
# PRIVATE
# SAND AND GRAVEL PITS

A.D. Cherwenuk, Director

| DANGER OPEN EXCAVATION | MISC-1 |
|---|---|


150 mm / 75 mm C SERIES LETTERING

| SECTION REFERENCE | | |
|---|---|---|
| DIMENSIONS (cm) | | 90 X 60 |
| ENLARGEMENT FACTOR | | 6 X |
| COLOUR | | |
| BACKGROUND | BORDER | MESSAGE / SYMBOL |
| WHITE | BLACK | RED / BLACK |

Alberta
TRANSPORTATION
Technical Standards Branch

# NOTICE STOCK PILE

MISC-2


LETTERING: 75 mm D SERIES
50 mm C SERIES

| SECTION REFERENCE | | |
|---|---|---|
| DIMENSIONS (cm) | | 75 X 75 |
| ENLARGEMENT FACTOR | | 6 X |
| COLOUR | | |
| BACKGROUND | BORDER | MESSAGE / SYMBOL |
| WHITE | BLACK | RED / BLACK |

Alberta
TRANSPORTATION
Technical Standards Branch

| NOTICE GRAVEL PIT | MISC-3 |
|---|---|


LETTERING: 75 mm D SERIES
50 mm C SERIES
25 mm D SERIES

| SECTION REFERENCE | | |
|---|---|---|
| DIMENSIONS (cm) | | 75 X 75 |
| ENLARGEMENT FACTOR | | 6 X |
| COLOUR | | |
| BACKGROUND | BORDER | MESSAGE / SYMBOL |
| WHITE | BLACK | RED / BLACK |

Alberta
TRANSPORTATION
Technical Standards Branch

# DANGER UNSTABLE MATERIAL

MISC-4


150 mm / 75 mm C SERIES LETTERING

| SECTION REFERENCE | | |
|---|---|---|
| DIMENSIONS (cm) | | 90 X 60 |
| ENLARGEMENT FACTOR | | 6 X |
| COLOUR | | |
| BACKGROUND | BORDER | MESSAGE / SYMBOL |
| WHITE | BLACK | RED / BLACK |

Alberta
TRANSPORTATION
Technical Standards Branch

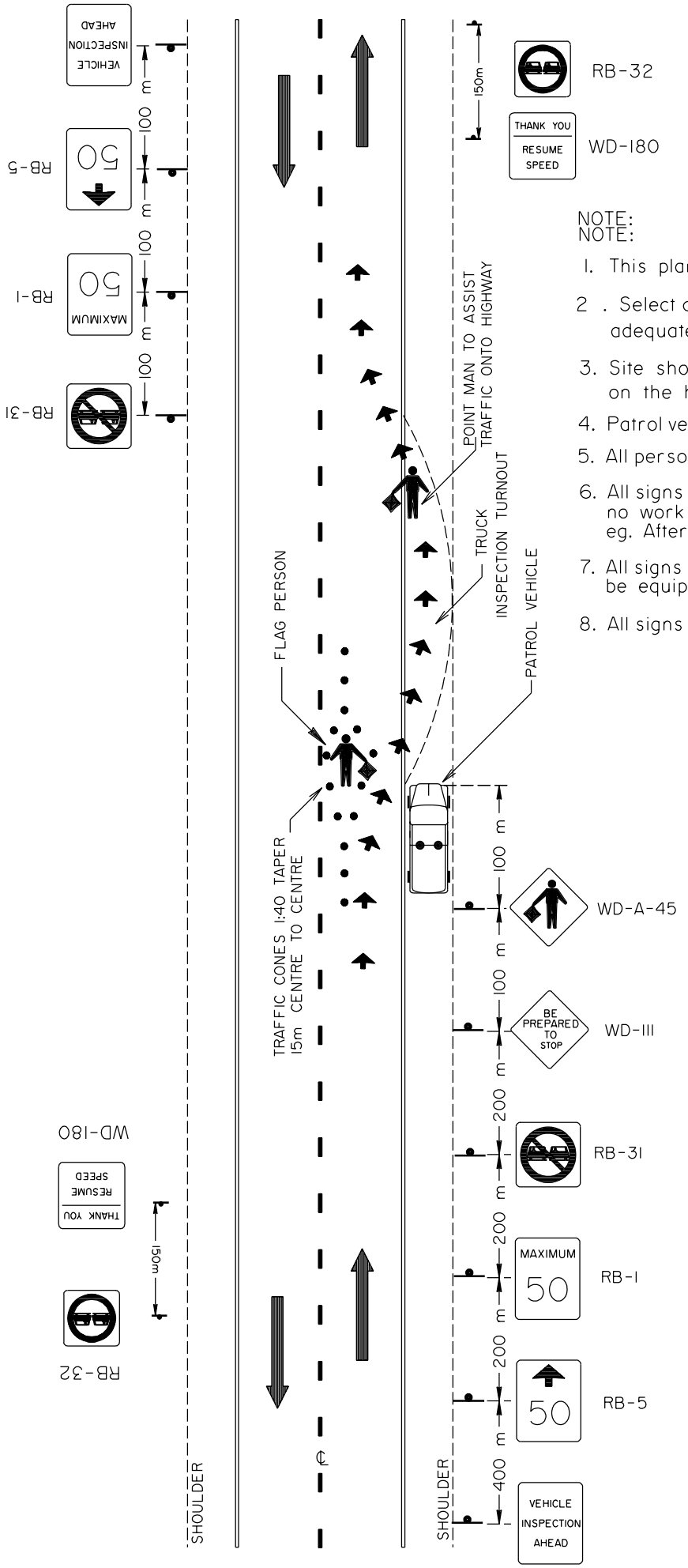
NOTE:

1. THIS PLAN SHOWS TYPICAL SIGNING AND DISTANCES ONLY.
2. EACH SITUATION WILL REQUIRE JUDGEMENT AND ASSESSMENT CONSIDERING SIGHT DISTANCES AND OTHER FACTORS. DISTANCES MAY HAVE BE ADJUSTED ACCORDING TO INDIVIDUAL CIRCUMSTANCES.
3. THIS PLAN SHOWS ESSENTIAL SIGNING ONLY ADDITIONAL SIGNING SHOULD BE ONLY INSTALLED OUTSIDE THE LIMITS OF THIS SIGNING.

Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

| | |
|---|---|
| DWG. No. | TEB 1.61 |
| Date | DEC 03/91 |
| Revision | |
| Revision | |

# TYPICAL SIGNING DISTANCES FOR SIGN LOCATIONS AT INTERSECTIONS



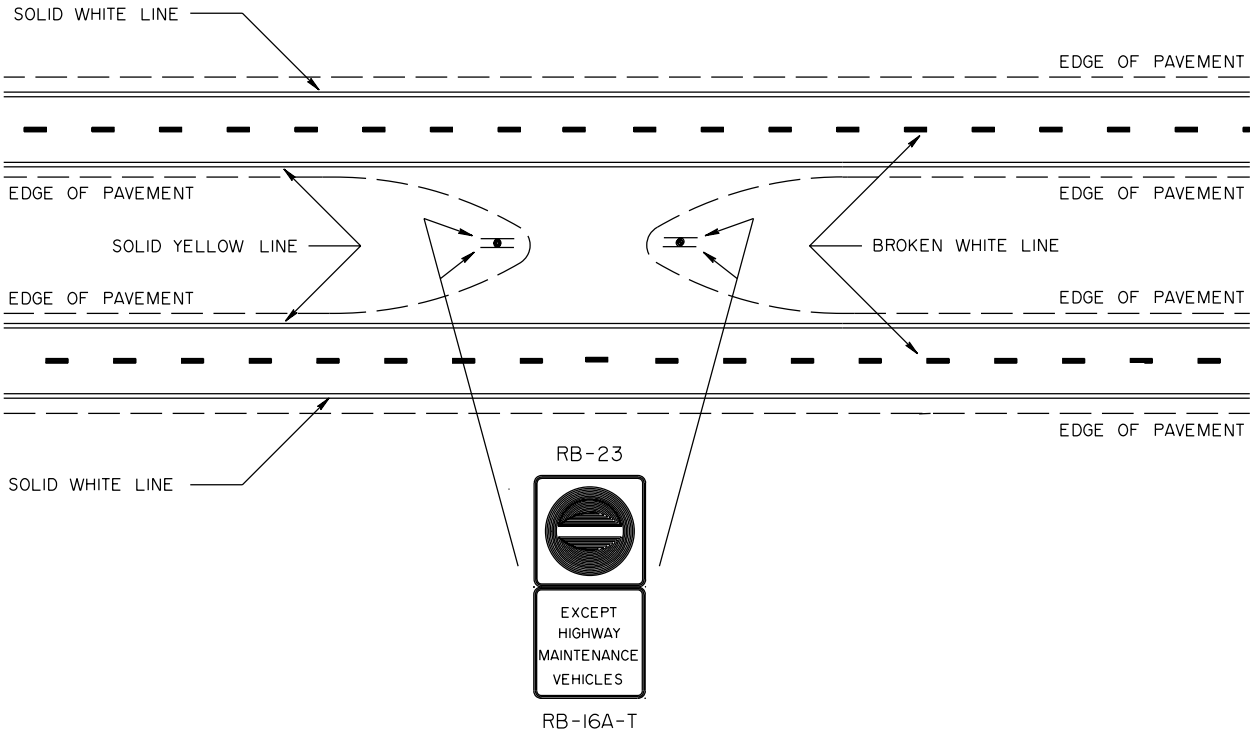

NOTE:
NOTE:

1. This plan shows typical signing only.
2. Select a highway shoulder or turnout with adequate space for inspection.
3. Site should have clear visability both directions on the highway.
4. Patrol vehicle to have it's lights flashing.
5. All personnel to be wearing traffic vests.
6. All signs to be removed or covered when no work is being performed.
   eg. After working hours or noon hour.
7. All signs mounted on portable stands to be equipped with red flags.
8. All signs to be clean and in good condition.

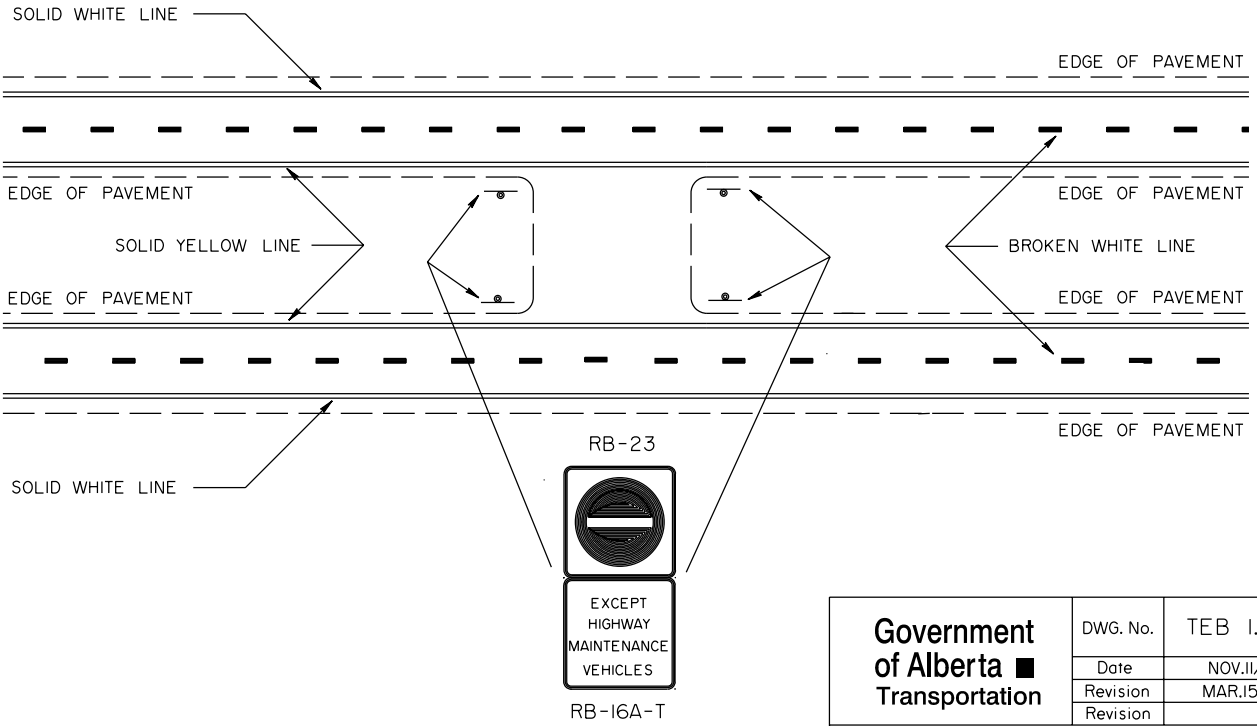
| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.62 |
| | Date | DEC. 20/91 |
| | Revision | |
| | Revision | |

# TYPICAL SIGNING
# T.F.O. TRUCK INSPECTION SITES
# TWO LANE TWO WAY TRAFFIC

## CROSSOVER WIDTH UNDER 5m



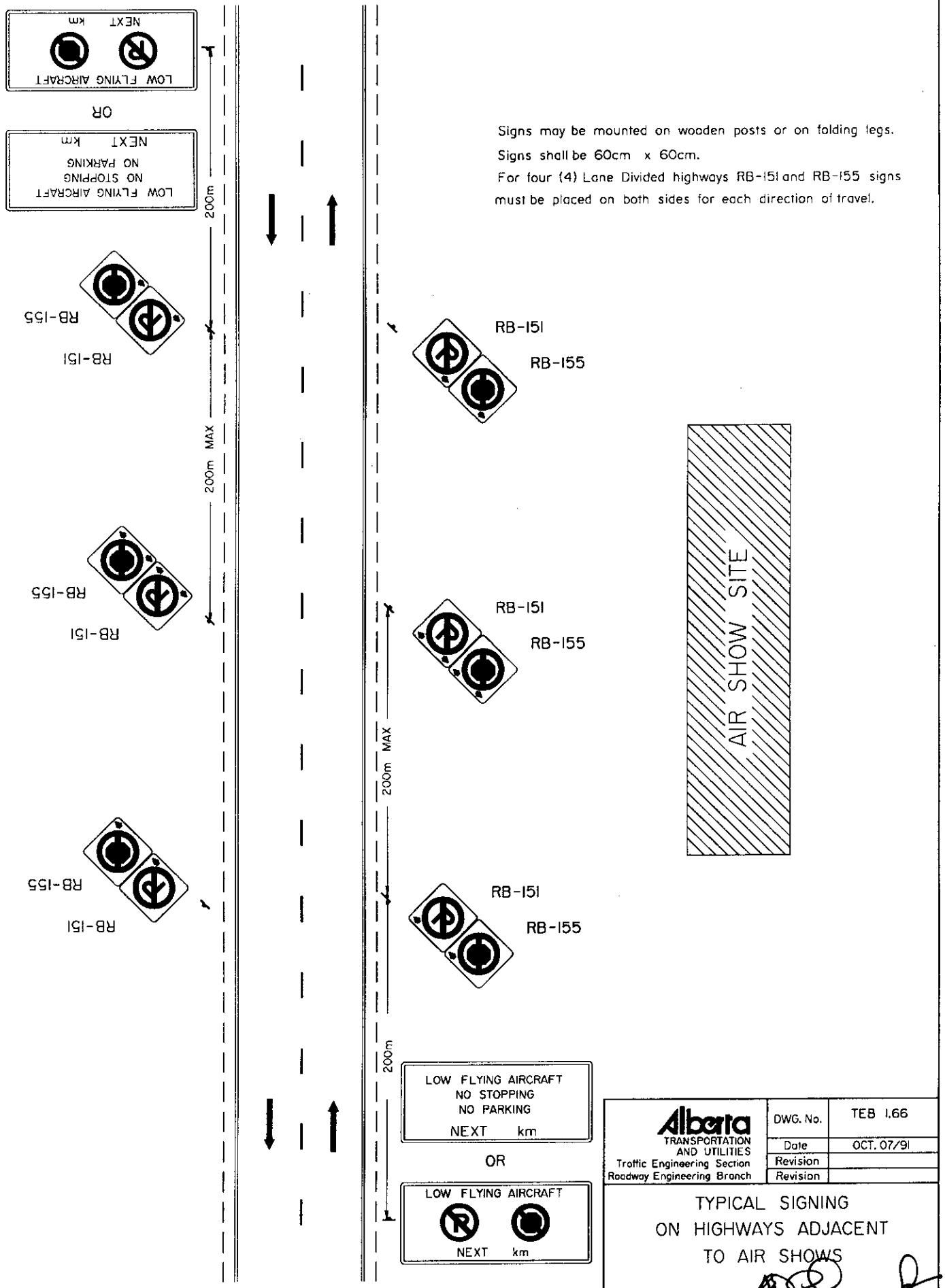

## CROSSOVER WIDTH OVER 5m




**Government of Alberta ■ Transportation**

| | |
|---|---|
| DWG. No. | TEB 1.63 |
| Date | NOV.11/91 |
| Revision | MAR.15/10 |
| Revision | |

TYPICAL SIGNING
& PAVEMENT MARKINGS
HIGHWAY MAINTENANCE EQUIPMENT
CROSSING FOUR-LANE DIVIDED

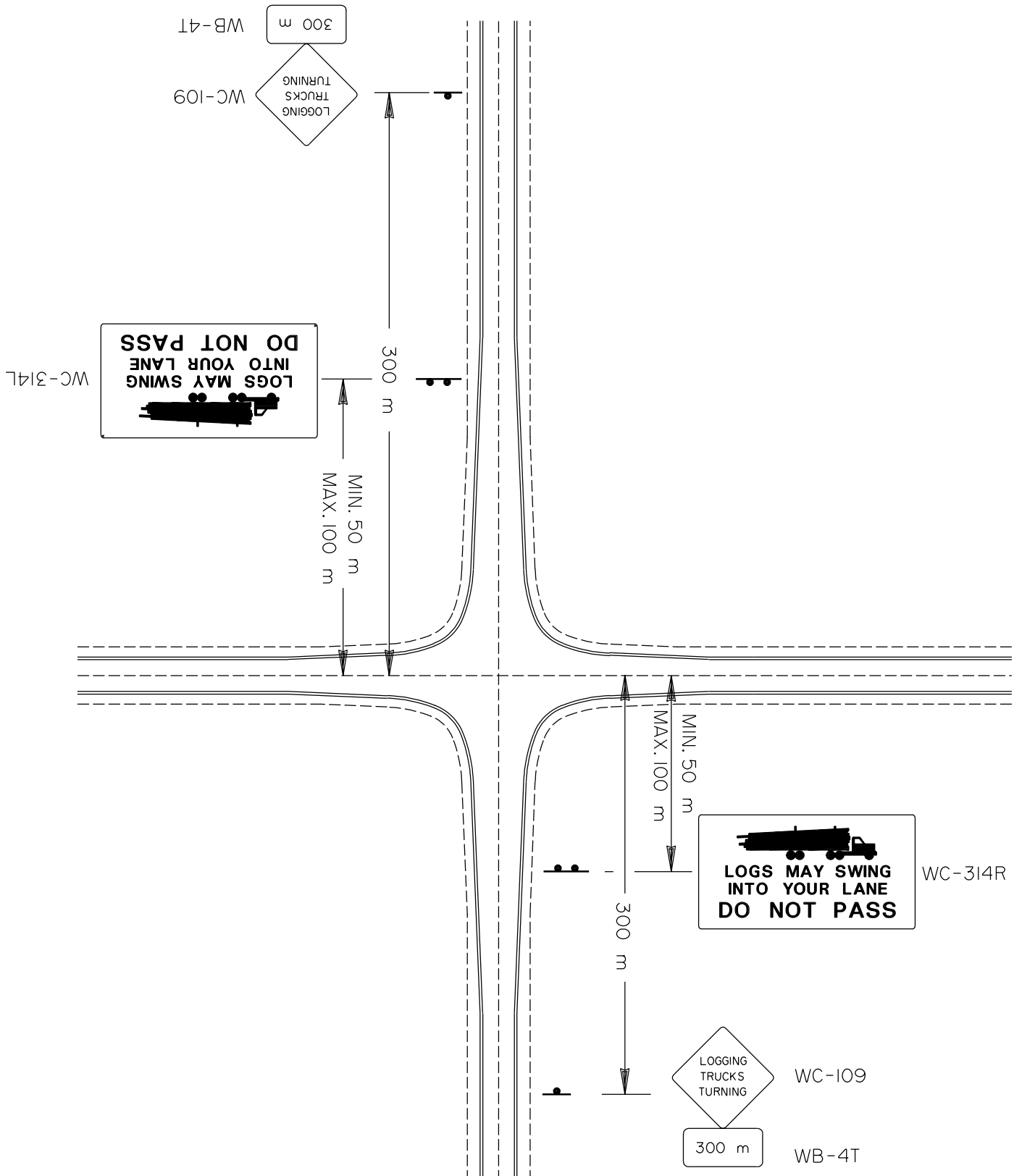



Signs may be mounted on wooden posts or on folding legs.
Signs shall be 60cm x 60cm.
For four (4) Lane Divided highways RB-151 and RB-155 signs must be placed on both sides for each direction of travel.

| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.66 |
| | Date | OCT. 07/91 |
| | Revision | |
| | Revision | |

TYPICAL SIGNING
ON HIGHWAYS ADJACENT
TO AIR SHOWS

A.D. Cherwenuk, Director

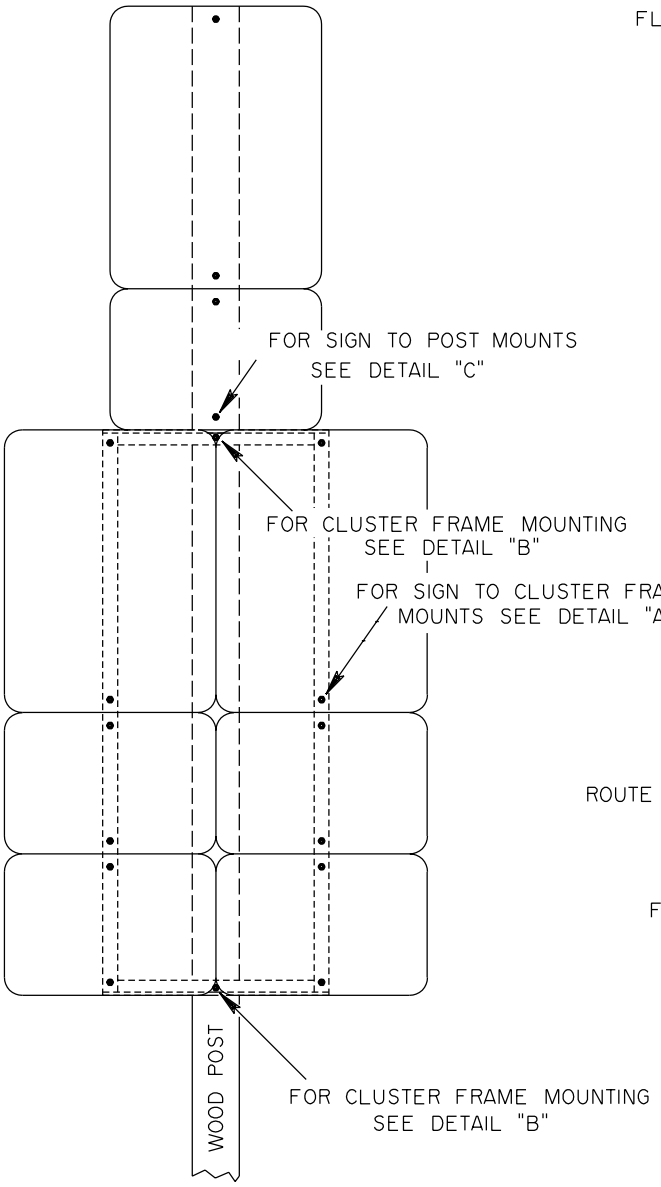



Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

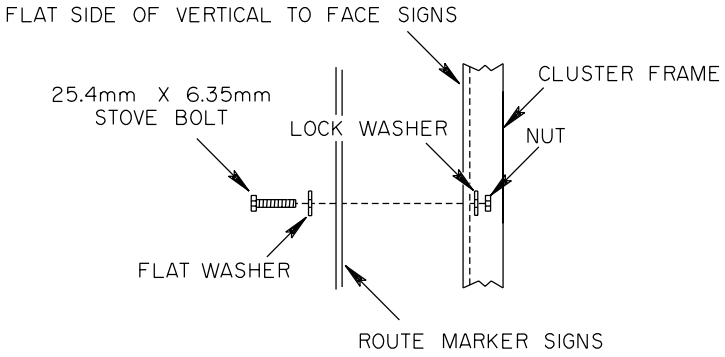
| | |
|---|---|
| DWG. No. | TEB 1.67 |
| Date | OCT. 11/90 |
| Revision | |
| Revision | |

# TYPICAL SIGNING FOR LOGGING TRUCK TURNING LOCATIONS

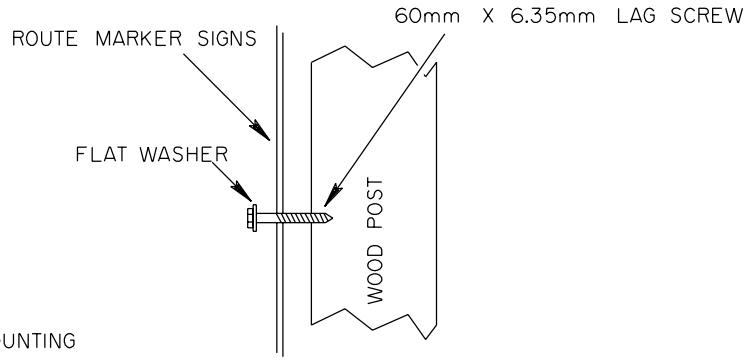
## FRONT VIEW




## DETAIL "A"
SIDE VIEW
SECURING SIGN TO CLUSTER FRAME



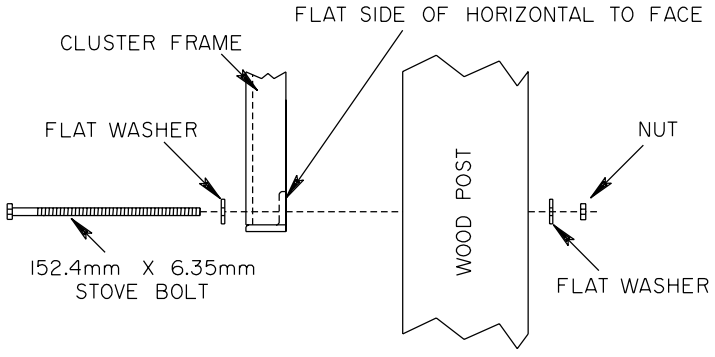

## DETAIL "C"
SIDE VIEW
SECURING SIGN TO POST




NOTE:

1. The holes are predrilled in the sign.
2. Signs to be mounted flush with the top of post.
3. All nuts, washers and bolts to be cadmium plated.

## DETAIL "B"
SIDE VIEW
SECURING CLUSTER FRAME TO POST

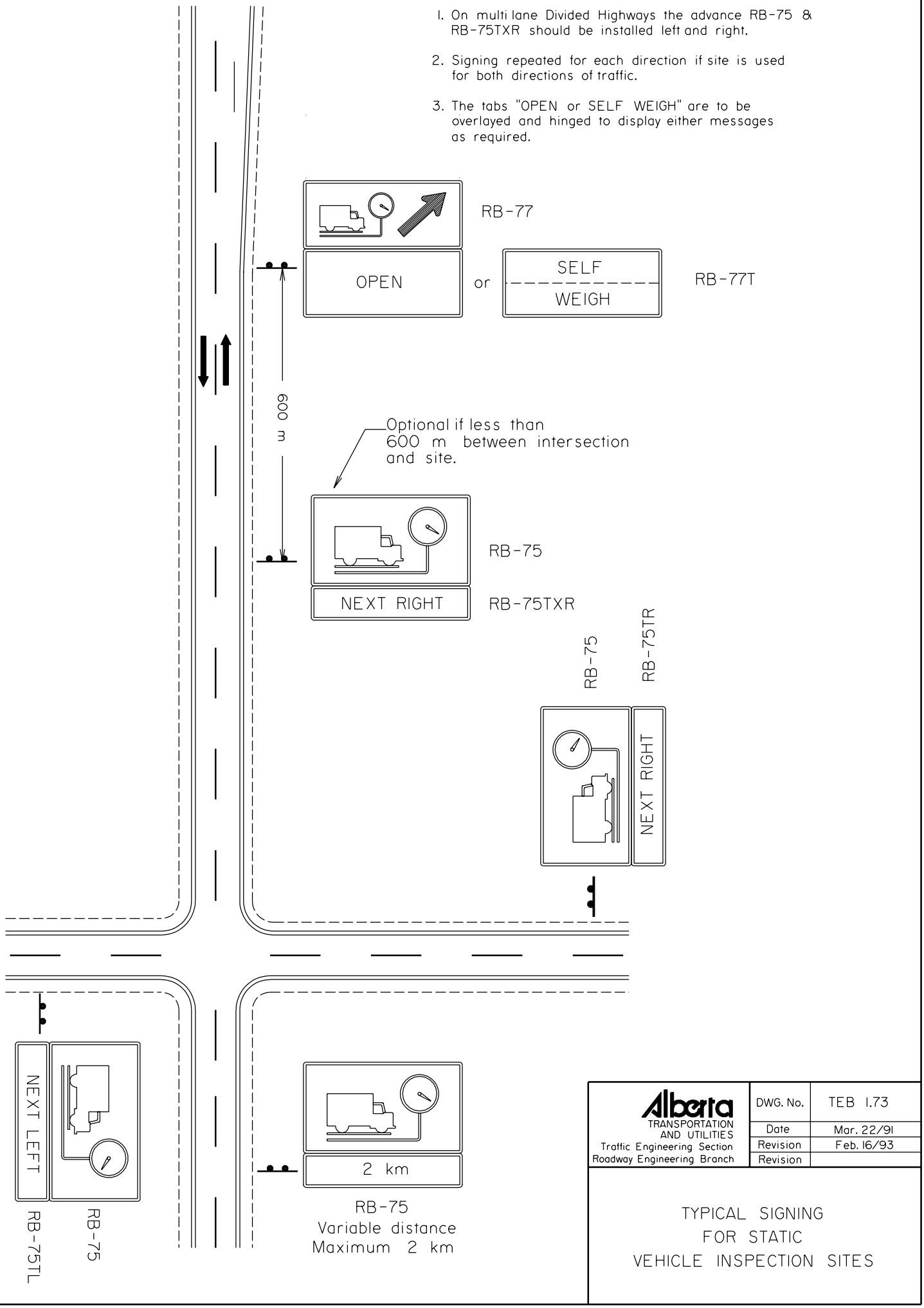



| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.69 |
| | Date | JULY 08/91 |
| | Revision | |
| | Revision | |

# TYPICAL ROUTE MARKER CLUSTER BOARD ASSEMBLY

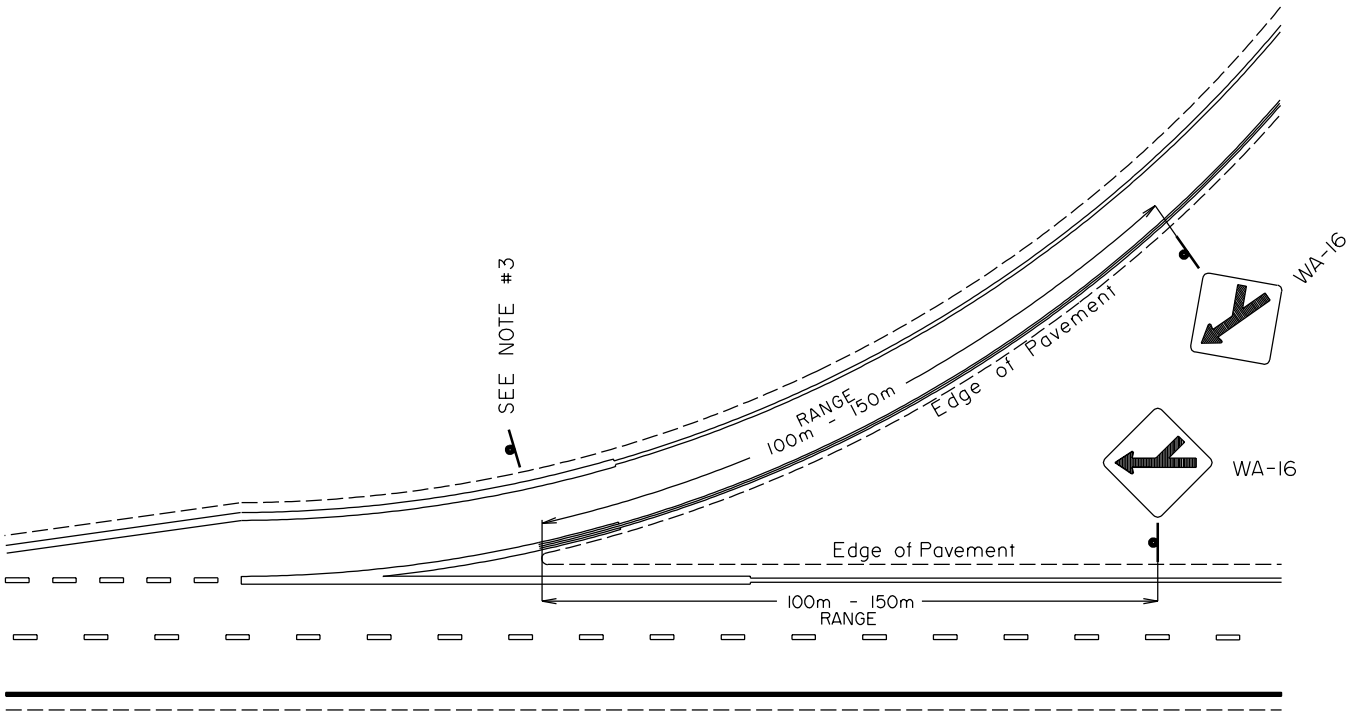
NOTE:

1. On multi lane Divided Highways the advance RB-75 & RB-75TXR should be installed left and right.
2. Signing repeated for each direction if site is used for both directions of traffic.
3. The tabs "OPEN or SELF WEIGH" are to be overlayed and hinged to display either messages as required.




| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.73 |
| | Date | Mar. 22/91 |
| | Revision | Feb. 16/93 |
| | Revision | |

# TYPICAL SIGNING FOR STATIC VEHICLE INSPECTION SITES




NOTE:

The Merge sign when placed in advance of a point where two roadways converge and where no movement conflicts occur, shall indicate to the road user that merging movements may be encountered. WHEN USED, THE SIGN SHALL BE ERECTED ON THE SIDE OF THE ROADWAY ON WHICH MERGING TRAFFIC WILL BE ENCOUNTERED and in such a position as not to obstruct the driver's view of those vehicles about to merge.

A Merge sign may be warranted under the following conditions:

1. Where the merging traffic condition is not obvious to the road user.

2. Where the length of the taper exceeds the value in the following table.

| DESIGN SPEED FOR THROUGH HIGHWAY (km/h) | THE LENGTH OF TAPER (m) |
|---|---|
| 50 | 50 |
| 60 | 60 |
| 70 | 65 |
| 80 | 70 |
| 90 | 80 |
| 100 | 85 |
| 110 | 90 |
| 120 | 95 |
| 130 | 100 |
| 140 | 110 |

3. Where the length of taper is less than these warrants, a Stop or Yield sign may be erected on the minor roadway.

4. Where grades exceed 2% or where there are very high traffic volumes additional taper length may be required to warrant using Merge signs.

Alberta
TRANSPORTATION AND UTILITIES
Traffic Engineering Section
Roadway Engineering Branch

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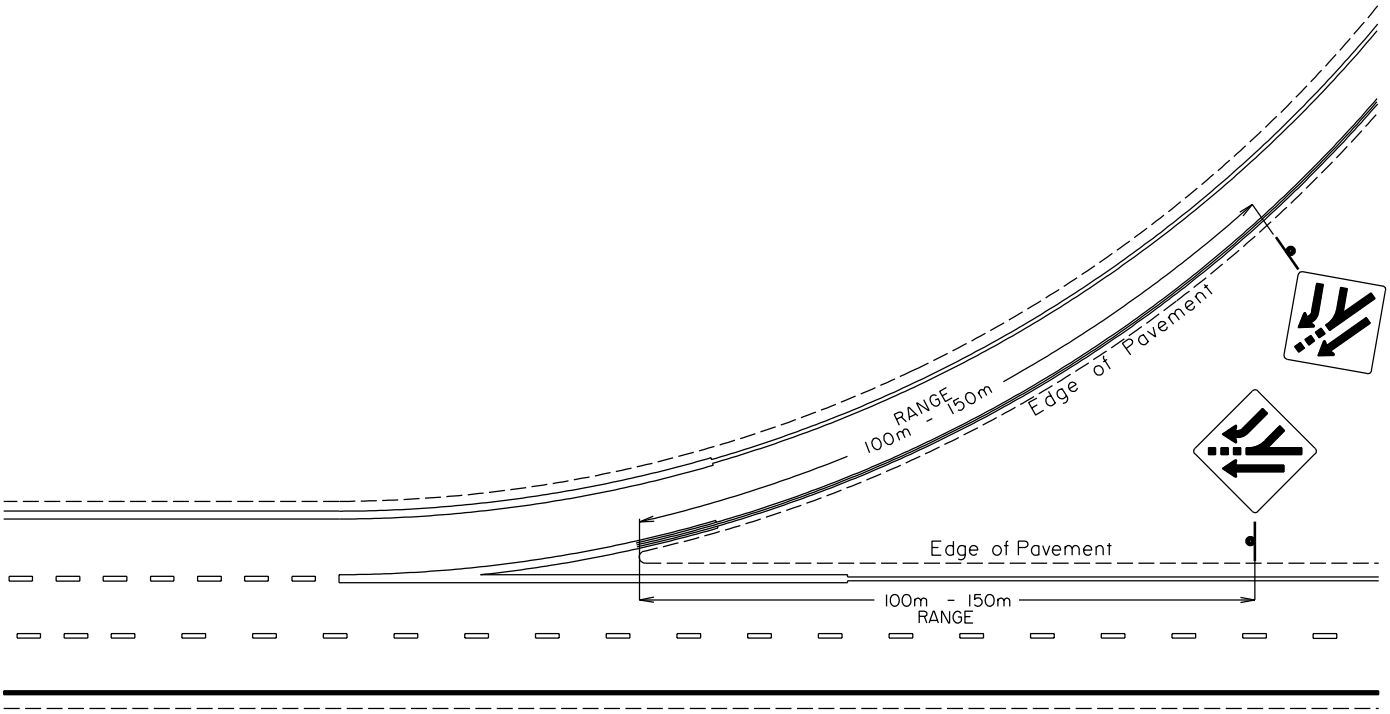
|---|---|
| DWG. No. | TEB 1.76 |
| Date | Sept 11/91 |
| Revision | |
| Revision | |

# TYPICAL SIGNING FOR MERGING TRAFFIC



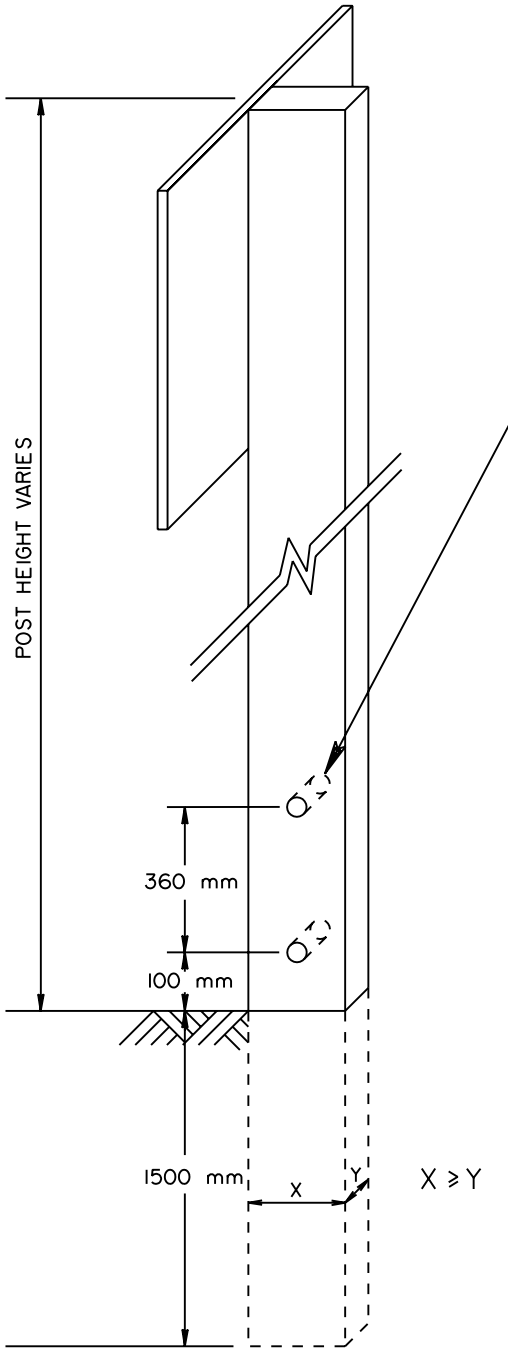

NOTE:

An Added Lane sign is intended for use in advance of a point where two roadways converge and merging movements are not required. This sign should be erected in advance of the point of convergence. A sign should be placed on each roadway on the side of the roadway on which the other roadway converges.

WA-112

| | | |
|---|---|---|
| Alberta TRANSPORTATION AND UTILITIES<br>Traffic Engineering Section<br>Roadway Engineering Branch | DWG. No. | TEB 1.77 |
| | Date | Sept 11/91 |
| | Revision | |
| | Revision | |

# TYPICAL SIGNING FOR ADDED LANES




2-38 mm DIA. HOLES TREATED WITH AN APPROVED WOOD PRESERVATIVE.

FILL EACH HOLE WITH A SINGLE PIECE OF CLOSED CELL INSULATION FLUSH WITH FACE OF POST (E.G., EXPANDING STYROFOAM). THE HOLES DO NOT NEED TO BE FILLED IF PRE-TREATED AT THE PLANT OR MILL SITE.

THE ORIENTATION OF THE POSTS FOR THE SIGN MOUNTING SHALL BE IN ACCORDANCE WITH X AND Y AS SHOWN.

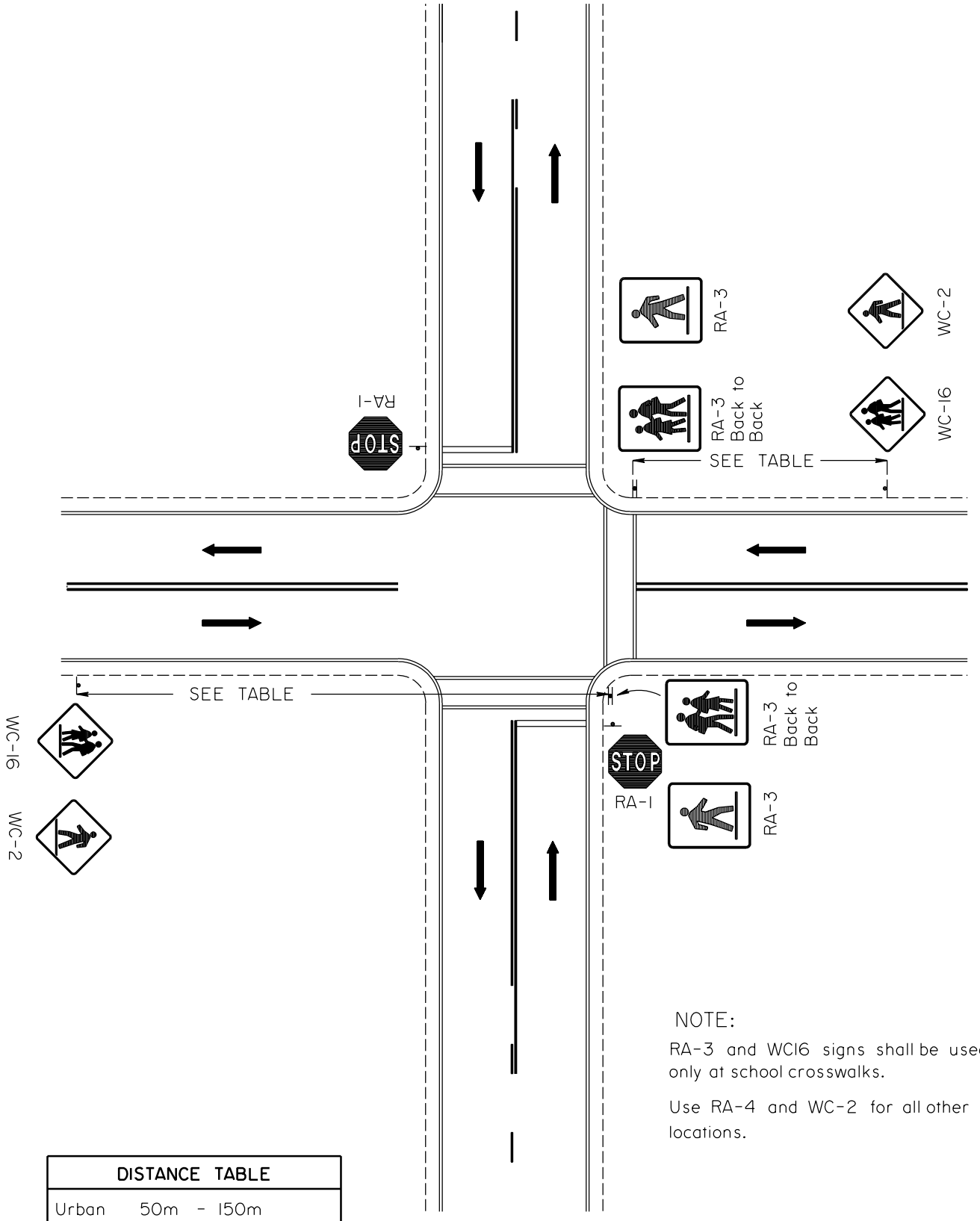
HOLES ARE TO BE DRILLED PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.

DIRECTION OF TRAFFIC FLOW →

NOTE:
THE BREAKAWAY FEATURE FOR WOOD POSTS WITH CROSS-SECTIONAL DIMENSIONS GREATER THAN 100 mm X 100 mm IS REQUIRED FOR POSTS LOCATED WITHIN THE CLEAR ZONE AND DESIRABLE FOR POSTS LOCATED OUTSIDE THE CLEAR ZONE (WITHIN HIGHWAY RIGHT-OF-WAY).

| Alberta Transportation | DWG. No. | TEB 1.81 |
|---|---|---|
| | Date | JUNE 13/08 |
| | Revision | |
| | Revision | |

# TYPICAL BREAKAWAY WOOD POST




NOTE:

RA-3 and WC16 signs shall be used only at school crosswalks.

Use RA-4 and WC-2 for all other locations.

| DISTANCE TABLE | |
|---|---|
| Urban | 50m - 150m |
| Rural | 150m - 300m |
| Adjust distance according to field conditions. | |

Alberta
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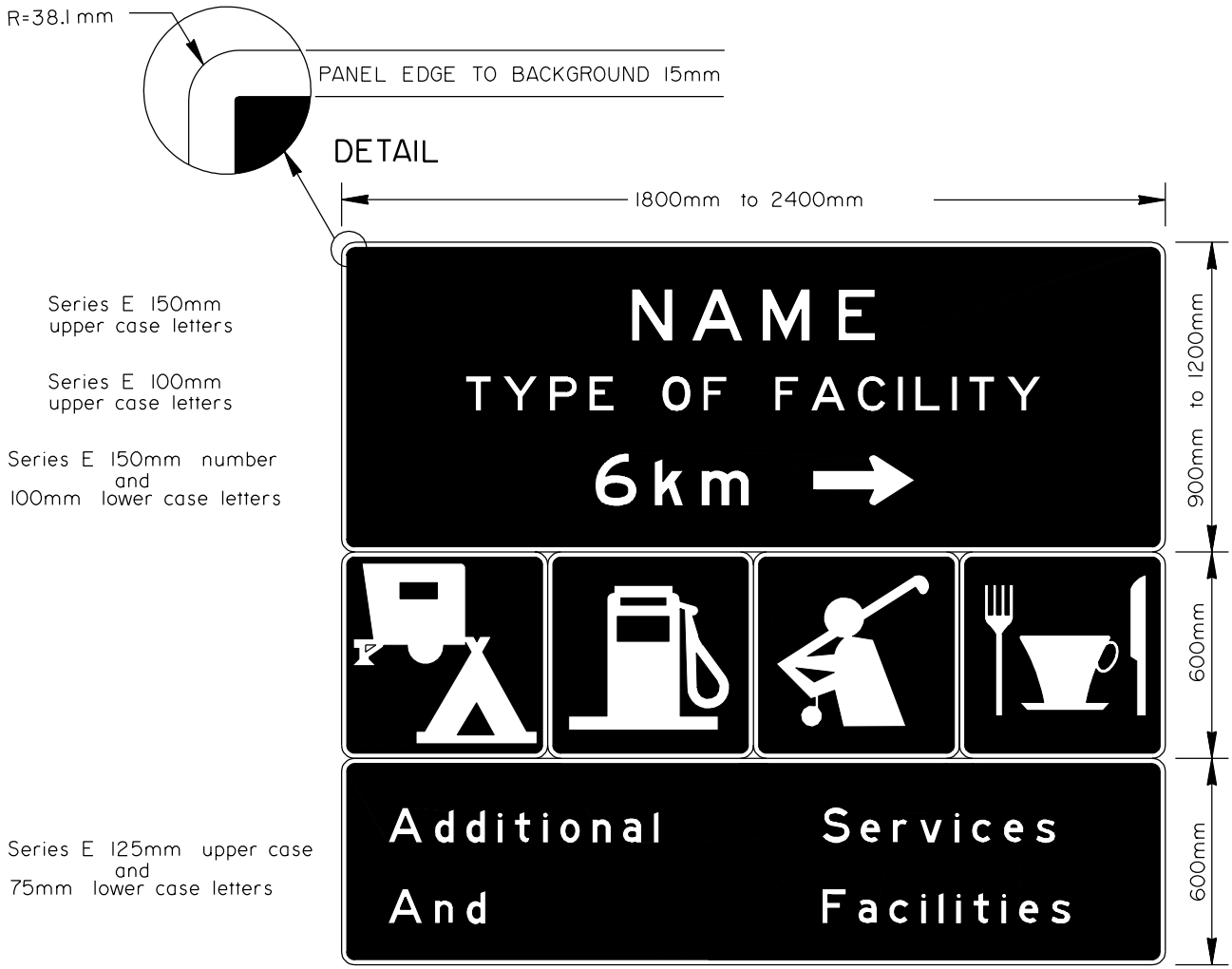
| Revision | |

# TYPICAL SIGNING & MARKING FOR CROSSWALK LOCATIONS




NOTE: This sign may be used for the following type of facility; campgrounds, golf courses, ski resorts and recreation areas.

BACKING MATERIAL:
Sign grade backing material (ie 19mm high density plywood, aluminum panels or extruded aluminum.)

SIGN FACE:
Must be reflective to show same color by night as by day. Level 1 reflective material preferred.

LETTERING:
Series type highway font, in series E sizes as shown. C or D series may be used where names are too long to fit on the panel.
Note: The Standard Alphabet for Highway Signs is available from the Federal Highway Administration (CHTO-20) Washington D.C. 20590.

SYMBOLS:
Shall be as shown in the Uniform Traffic Control Standards Manual or as determined by Alberta Transportation and Utilities. A maximum of four symbols shall be allowed.

WORD PHRASES:
A maximum of four messages may be displayed on the lower panel.

SIZES:
Horizontal dimensions are determined by the number of symbols. 1800mm for 3 symbols, 2400mm for 4 symbols. Vertical dimensions of top panel are determined by the number of lines of text. 900mm for 3 lines, 1200mm for 4 lines.

COLOURS:
All messages shall be white, background shall be brown and all symbols shall be white on brown.

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|---|---|---|
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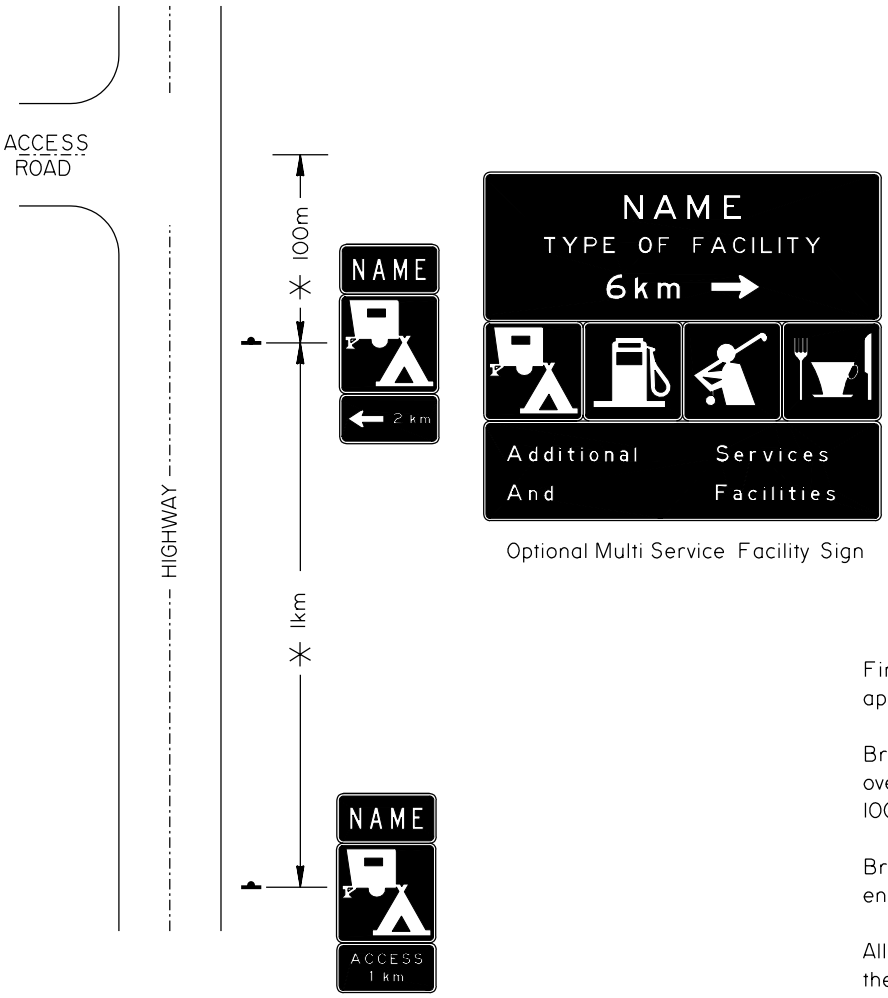
# TYPICAL MULTI SERVICE FACILITY SIGN CONSTRUCTION DETAILS




Optional Multi Service Facility Sign

## GENERAL NOTES

Final installation location & details must be approved by A.T. & U.

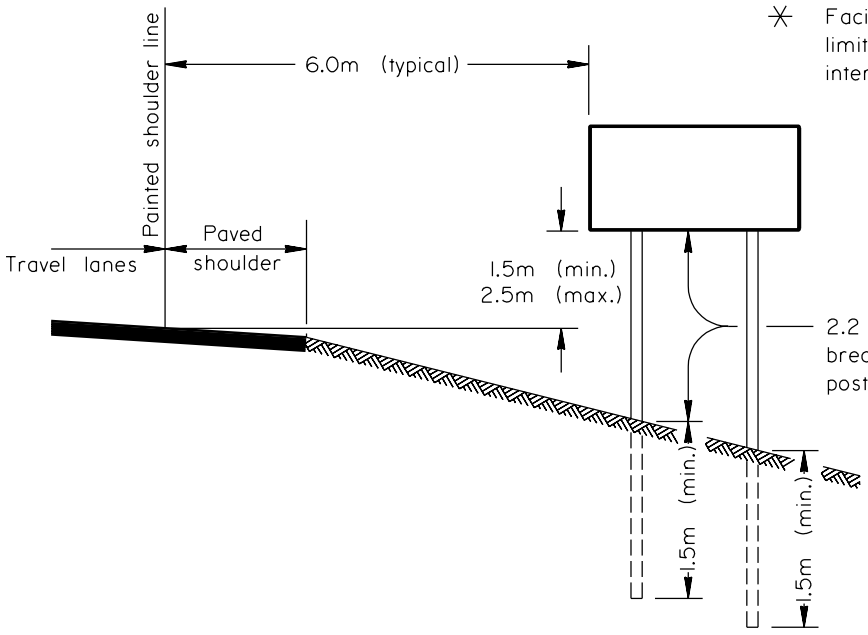
Breakaway features are required on all signs over $3m^2$. Smaller signs shall be mounted on 100 x 100mm wood posts or equivalent.

Breakaway features must be designed by an engineer and approved by A.T. & U.

All signs are to be installed 90 degrees to the road.

Adjustments to the dimensions may be required for specific situations as approved by A.T. & U.

✳ Facility signs shall be mounted outside the limits of regular guide signing at major intersections.

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|---|---|---|
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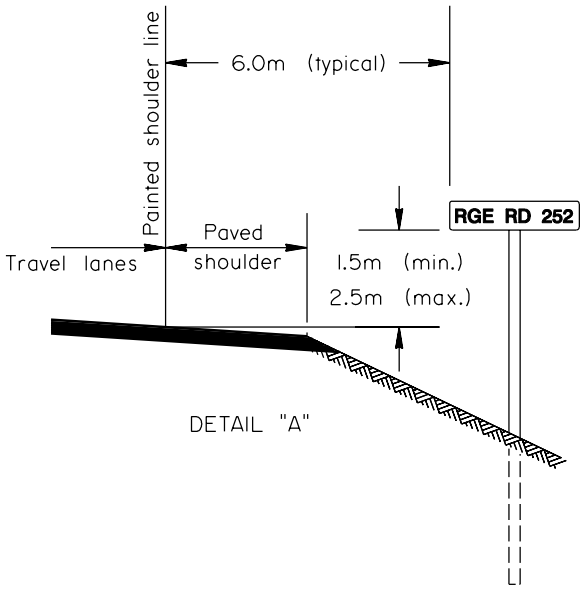
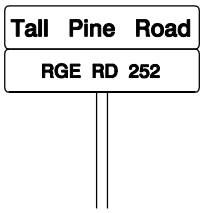
| | Revision | |

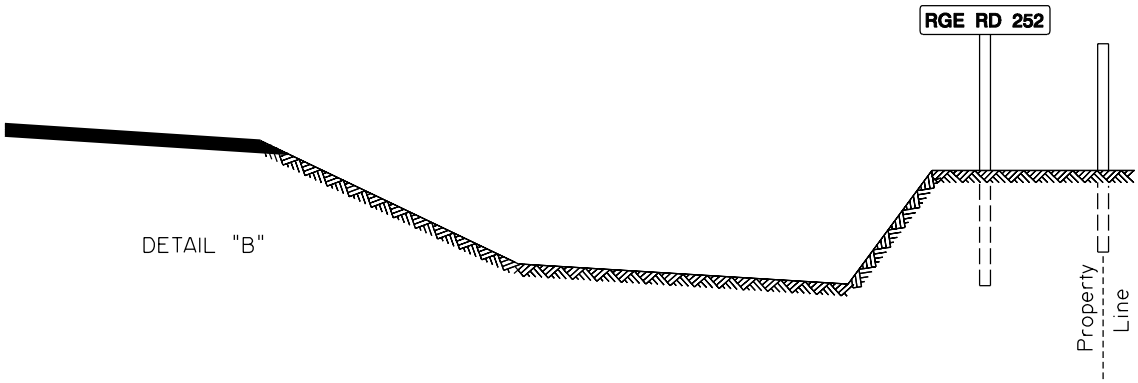
# TYPICAL FACILITY SIGN LOCATION & INSTALLATION




DETAIL "A"




DETAIL "C"




DETAIL "B"

BACKING MATERIAL:
Sign grade backing material (ie 19mm high density plywood, aluminum panels or extruded aluminum.)

SIGN FACE:
Must be reflective to show the same color by night as by day. Level I reflective material must be used when signs are installed on the shoulder and is preferred for all locations.

LETTERING:
Minimum 150mm series "C" highway font for use on signs installed on the shoulder.

COLOUR:
Green background with white messages shall be used when signs are mounted as shown in DETAIL "A".

Blue or green background may be used when the signs are mounted at the property line as shown in DETAIL 'B'.

Rural Addressing Signs may be mounted on the shoulder of the highway when they conform to these guidelines:

1. Where the road is already named the rural address sign may be mounted on the same post directly below the existing sign as shown in DETAIL "C" or it may replace the road name sign.

2. Where there is no existing signing the signs may be mounted as shown in DETAIL "A" or in DETAIL "B".

3. If blue signs already exist at the property line green signs may be mounted on the shoulder of the highway but the existing blue signs must be removed.

4. Where there is existing signing for a numbered highway a rural address sign may be mounted 50m in advance of the route marker cluster.

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# RURAL ADDRESS SIGNS
# TOWNSHIP & RANGE ROADS