				_		
08-299(2-05)		TRANSMITTAL LETTER	Publication 111M May 2007 Edition Change 2			
PENND	т		DATE: July 25, 2008			
		LM Traffic Control )0 and TC-8700 Seri	- Pavement Markings and es			
INFORMA	TION AND SPECIAL IN	STRUCTIONS:		-		
consulta control F	nts whenever applica Pavement Markings ar	ble for the design, deta	Department personnel and ails, and installation of traffic Publication 111M, issued May his new edition.			
The follo this editi		f the major changes tha	at have been incorporated into			
		rds as part of this publication Prtable Sign Post, "H" Base				
TC-8701S •		or Extruded Aluminum Stiffe	eners for use on Flat Sheeting		CANCEL AND DESTROY THE FOLLOWING: The following standards are replaced: Index Sheet TC-8701S dated May 25, 2007	REC Dist P.O Har
TC-8716:	Made changes to confo	orm to the MUTCD			TC-8716 dated May 25, 2007	
TC-8717:	This is a new standard	drawing for a portable sign	post for PENNDOT that was approved			Tel
	by FHWA.					APF
						Alle Sec By:
						Dar Act and

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#### PPROVED FOR ISSUANCE BY:

Allen D. Biehler, P.E. Secretary of Transportation By:

Daryl R. St. Clair, P.E. Acting Director, Bureau of Highway Safety and Traffic Engineering

09-299 (2-05)	TRANSMI LETTI		Publication 111M May 2007 Edition Change 1 DATE: March 18, 2008				
PENNDOT							
SUBJECT: Publication 111M Traffic Control - Pavement Markings and Signing Standards TC-8600 and TC-8700 Series							
INFORMATION AND SPECIAL INS	STRUCTIONS:						
This change involves making corrections to clarify the use of Clearview Font for upper case/lower case font on guide signs and correct a metric dimension for when sign lighting is required for overhead guide signs.							
CANCEL AND DESTROY THE FOLLOWING: THE FOLLOWING STANDARDS ARE REPLACED: TC-8701A and TC-8701D dated May 25, 2007		Distributio P.O. Box 2 Harrisbur	ADDITIONAL COPIES FROM: on Services Unit 2028 g, PA 17105 ne: (717) 787-6746				
		Allen D. B Secretary BY: Daryl St. ( Acting Dir	ED FOR ISSUANCE BY: tiehler, P.E. of Transportation South Line Clair, P.E. rector, Bureau of Highway Safety c Engineering				

•

	Publication 111M	<ul> <li>TC-8701S:</li> <li>1 of 3 – Removed medium flanged section</li> </ul>	n de
PENNDOT	DATE: May 25, 2007	TC-8702A:	•
SUBJECT: Publication 111M Traffic Control - Pavement Markings and Signing Standards TC-8600 and TC-8700 Series		<ul> <li>2, 3 &amp; 4 of 8 – Added W18X35 &amp; W18X40</li> <li>7 of 8 – Added W18 bracket selection tab</li> <li>Deleted W310 bracket selection tab</li> <li>8 of 8 – Added W18 to footing selection tab</li> </ul>	ole table
INFORMATION AND SPECIAL INSTRUCTIONS: The attached Standard Drawings shall be used by consultants whenever applicable for the design, det control Pavement Markings and Signs. The previou August 1997, and any changes thereto shall be repla The following is a summary of the major changes th this edition.	ails, and installation of traffic s Publication 111M, issued aced by this new edition.	- Added soil properties note <b>TC-8702B:</b> • General – Deleted steel square posts (Sy • 5 of 9 – Deleted universal spacer detail • 8 of 9 – Added socket system for concrete <b>TC-8702D:</b> • 1 of 2 – New anchor detail and parapet at	e ins
General: • Added following standards as part of this publicat TC-8600 - Pavement Markings TC-8602 - Snowplowable Raised Pavement Markin TC-8604 - Delineation			REQI
<ul> <li>Standards shown in dual units, metric and English</li> <li>Standards developed in conformance with 2001 A Structural Supports for Highway Signs, Luminarie</li> </ul>	ASHTO Standard Specifications for	P	Distri P.O. I Iarri
<ul> <li>TC-8700:</li> <li>8 thru 11 – Added English unit spacing charts for</li> <li>12 thru 17 – Added English unit spacing charts</li> </ul>			elep
<ul> <li>TC-8701A:</li> <li>1 of 7 – Note 3 under signing plans revised to ind distance is not available, sign lighting is required.</li> </ul>	0 0	A	APPF Allen Secre By:
<ul> <li>TC-8701D:</li> <li>4 of 9 – Added new diagrammatic sign standard</li> <li>5 of 9 – Added two new alternate designs for gore areas</li> <li>9 of 9 – Revised color specifications for Turnpike</li> </ul>	-		/I. G. Chief
<ul> <li>TC-8701E:</li> <li>1 of 2 – Added 6" sections at top &amp; bottom of extra</li> </ul>	uded aluminum channel sign		
<ul> <li>TC-8701R:</li> <li>1 &amp; 2 – Added "Next Rest Area" supplemental pla</li> </ul>	aque detail		

#### detail

post sizes to post selection charts

ble le

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installations

chment method

on tables and erection details

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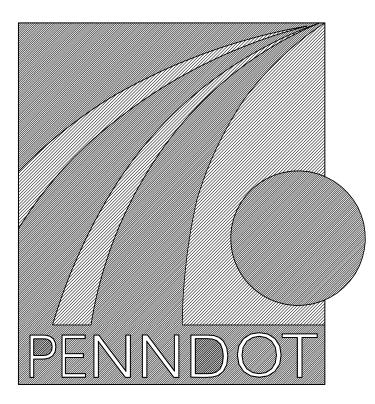
lephone: (717) 787-6746

#### PROVED FOR ISSUANCE BY:

en D. Biehler, P.E. cretary of Transportation

G. Patel, P.E. ief Engineer, Highway Administration

# **COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION**



**TRAFFIC CONTROL – PAVEMENT MARKINGS AND SIGNING STANDARDS PUBLICATION 111M** TC-8600 AND TC-8700 SERIES

**BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING** 

# **MAY 2007**

## INDEX OF TRAFFIC CONTROL - PAVEMENT MARKINGS AND SIGNING STANDARDS

STANDARD DRAWING NO.	DATE	DESCRIPTION
TC-8600 (8 SHEETS)	MAY 25, 2007	PAVEMENT MARKINGS (EXPESSWAY / FREEWAY, CON
TC-8602 (4 SHEETS)		
TC-8604 (4 SHEETS)	MAY 25, 2007	DELINEATION
TC-8700C (18 SHEETS)	MAY 25, 2007	SPACING CHARTS / DIRECT APPLIED LETTERS, NL
TC-8701A (7 SHEETS)	MAR.18, 2008	ADVANCE SIGNING FOR INTERCHANGES
TC-8701D (9 SHEETS)	MAR.18, 2008	SIGN DETAILS / FREEWAY & EXPRESSWAY GUIDE S
TC-8701E (2 SHEETS)	MAY 25, 2007	EXTRUDED ALUMINUM CHANNEL SIGNS
TC-8701P (2 SHEETS)	MAY 25, 2007	FREEWAY & EXPRESSWAY ADVANCE SIGNING FOR PA
TC-8701R (2 SHEETS)	MAY 25, 2007	FREEWAY & EXPRESSWAY ADVANCE SIGNING FOR RE
* TC-8701S (4 SHEETS)	JUL.18, 2008	FLAT SHEET ALUMINUM SIGNS WITH EXTRUDED ALL
TC-8701W (2 SHEETS)	MAY 25, 2007	FREEWAY & EXPRESSWAY ADVANCE SIGNING FOR WE
TC-8702A (8 SHEETS)	MAY 25, 2007	POST-MOUNTED SIGNS, TYPE A
TC-8702B (9 SHEETS)	MAY 25, 2007	POST-MOUNTED SIGNS, TYPE B
TC-8702C (2 SHEETS)	MAY 25, 2007	POST-MOUNTED SIGNS, TYPE C
TC-8702D (2 SHEETS)	MAY 25, 2007	POST-MOUNTED SIGNS, TYPE D
TC-8702E (5 SHEETS)	MAY 25, 2007	POST-MOUNTED SIGNS, TYPE E
TC-8710 (1 SHEET)	MAY 25, 2007	DISTANCE MARKERS
TC-8715 (5 SHEETS)		
* TC-8716 (1 SHEET)	JUL.18,2008	
* TC-8717 (1 SHEET)	JUL.18, 2008	TEMPURARI FURTADLE STON PUST, IL BASL AND

PUB. 111M, MAY 2007 EDITION SEE CHANGE #1 FOR MAR. 18, 2008 STANDARD REVISIONS \* SEE CHANGE #2 FOR JUL. 18, 2008 STANDARD REVISIONS

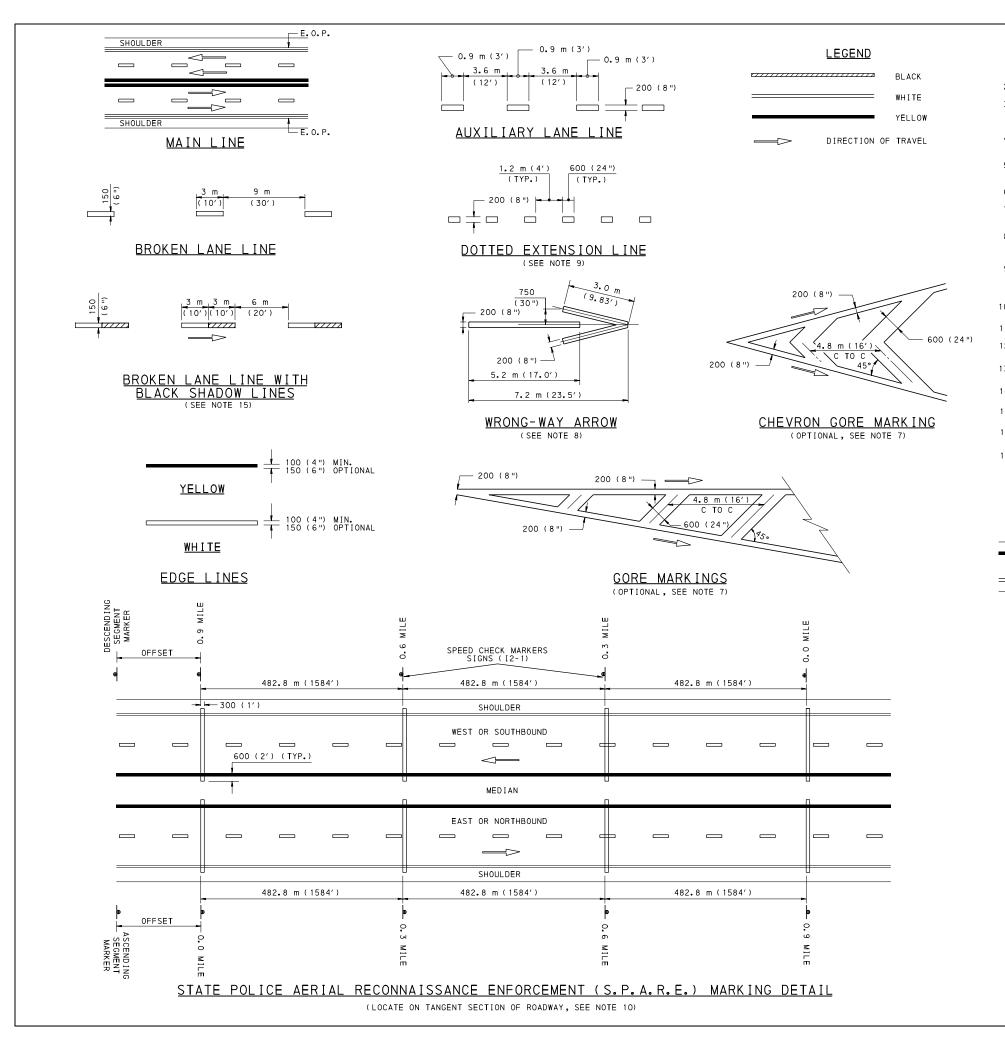
ONVENTIONAL, LEGENDS & SYMBOLS)

NUMERALS & ARROWS

SIGNS

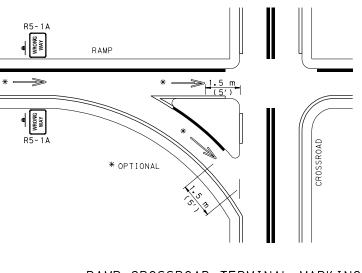
PARKING AREAS REST AREAS LUMINUM STIFFENERS WELCOME CENTERS

D "X" BASE



#### NOTES:

- 1. MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION'S PUBLICATION 408, UNLESS NOTED OTHERWISE.
- 2. REFLECTORIZE ALL NON-BLACK PAVEMENT MARKINGS.
- 3. EDGE LINES SHOULD BE 100 mm (4") MINIMUM WIDE SOLID LINE OF THE COLOR INDICATED AND PLACED 100 mm (4") INSIDE THE EDGE OF THE PAVEMENT SHOULDER.
- 4. ON EXPRESSWAYS / FREEWAYS MAKE BROKEN LANE LINES 150 mm (6") WIDE AND LOCATE 100 mm (4") TO THE RIGHT OF THE PAVEMENT JOINT OR SEAM.
- APPLY ALL PAINTED CENTER LINES, LANE LINES AND LEGENDS AT 380 #m (15 MILS) MINIMUM WET THICKNESS.
- 6. APPLY PAINTED EDGE LINES AT 300  $\mu\text{m}$  (12 MILS) MINIMUM WET THICKNESS.
- 7. USE CROSSHATCHING AT EXIT GORE AREAS WHEN VISIBILITY OR SIGHT DISTANCE OF THE GORE IS RESTRICTED.
- 8. PLACE OPTIONAL WRONG-WAY ARROWS IN CENTER OF EACH LANE OF AN EXIT RAMP, 1.5 m (5') FROM STOP BAR OR PAVEMENT EDGE AND ACROSS FROM WRONG-WAY SIGNS.
- 9. DOTTED EXTENSION LINES ON EXPRESSWAY / FREEWAYS MAY ONLY BE USED TO EXTEND RAMP / MAIN LINE / INTERSECTION EDGE LINES IN ORDER TO PROVIDE GUIDANCE WHERE THE PROPER TRAVEL PATH IS UNCLEAR BECAUSE OF THE HORIZONTAL OR VERTICAL CURVATURE.
- TYPICAL S.P.A.R.E. ZONE LENGTH IS 1.44 km (0.9 MILE), MINIMUM IS 0.96 km (0.6 MILE).
   FOR ADDITIONAL DETAILS REFER TO MARKINGS, CHAPTER 3, MUTCD.
- 12. FOR CONVENTIONAL HIGHWAY PAVEMENT MARKINGS, SEE TC-8600 SHEETS 3 AND 4 OF 8.
- 13. FOR LEGENDS & SYMBOLS PAVEMENT MARKINGS, SEE TC-8600 SHEETS 6, 7 AND 8 OF 8.
- 14. FOR LOCATION AND INSTALLATION OF SNOWPLOWABLE RAISED PAVEMENT MARKERS, SEE TC-8602.
- MARKERS, SEE 10-8602. 15. BLACK SHADOW LINES REQUIRED FOR CONCRETE ROADWAY SURFACES WITH EPOXY MARKINGS ONLY.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
   ENGLISH UNITS IN PARENTHESIS ( ).
- 17. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.



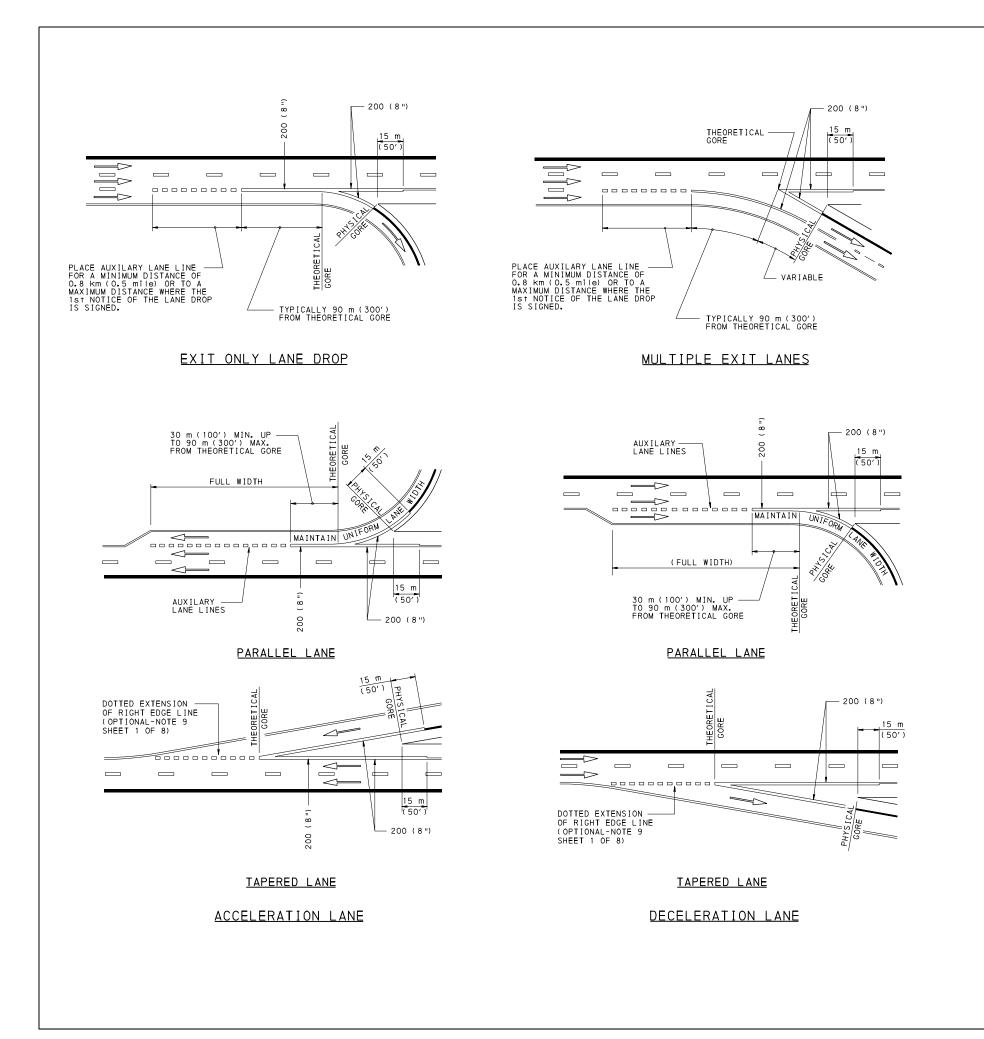
RAMP CROSSROAD TERMINAL MARKINGS WITH WRONG-WAY ARROWS (SEE MUTCD FIGURE 3B-23 FOR MORE DETAILS)

#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering

## PAVEMENT MARKINGS

## EXPRESSWAY / FREEWAY

RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007 m. C. L. L.	SHT. 1 OF 8
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION		TC-8600



15 m (50')	AUXILARY LA	NE LINE	7.5 m	(25')
(MIN.)	LENGTH VA	RIES	( MI	N. 1

#### CLOVERLEAF INTERCHANGE

#### <u>LEGEND</u>

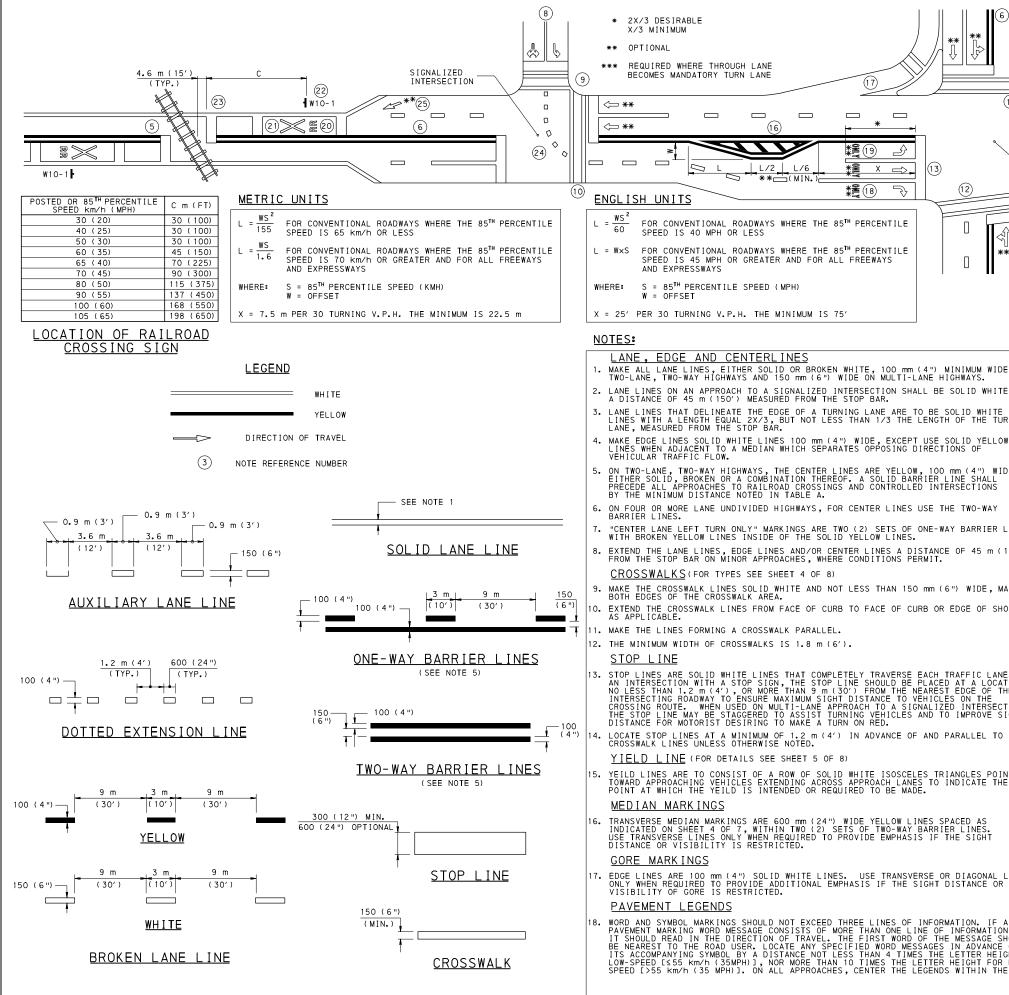
		WHITE
		YELLOW
DIRECTION	0F	TRAVEL

#### NOTE:

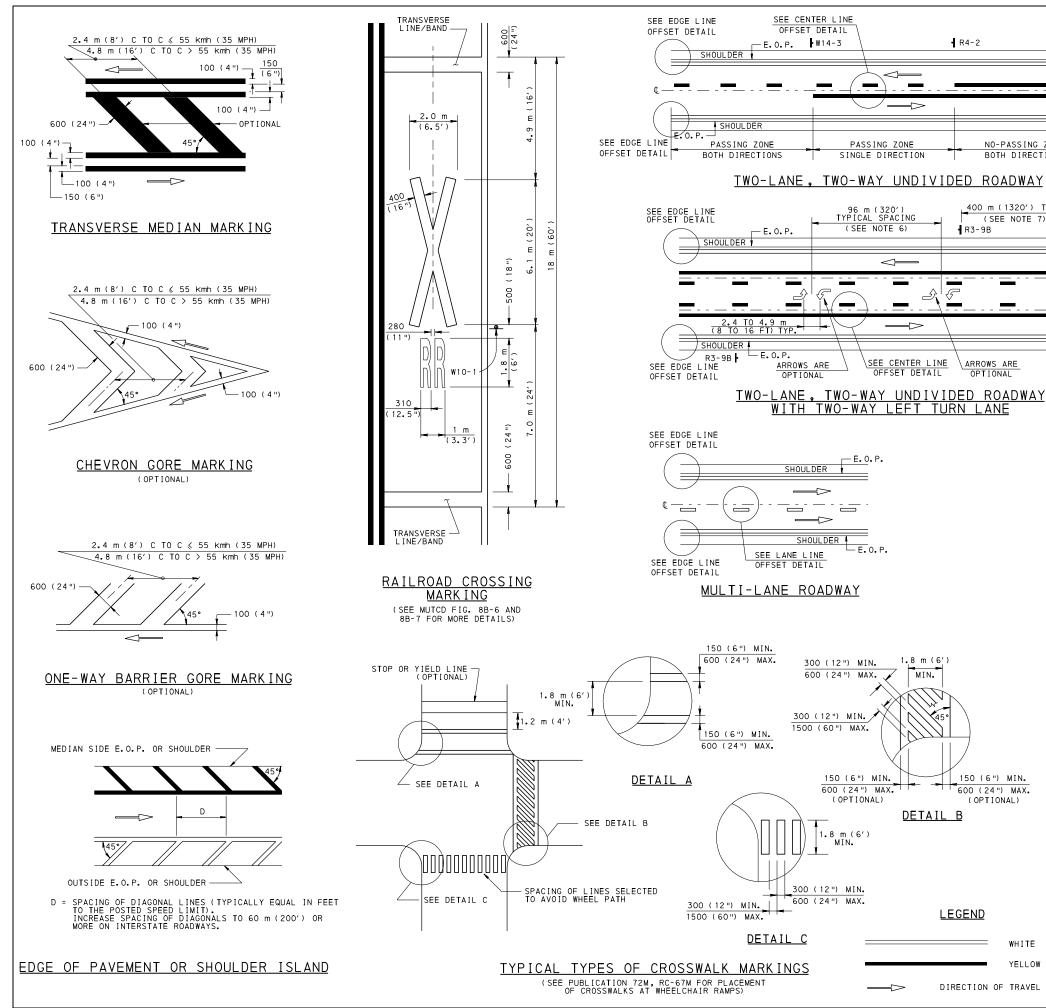
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).

2. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

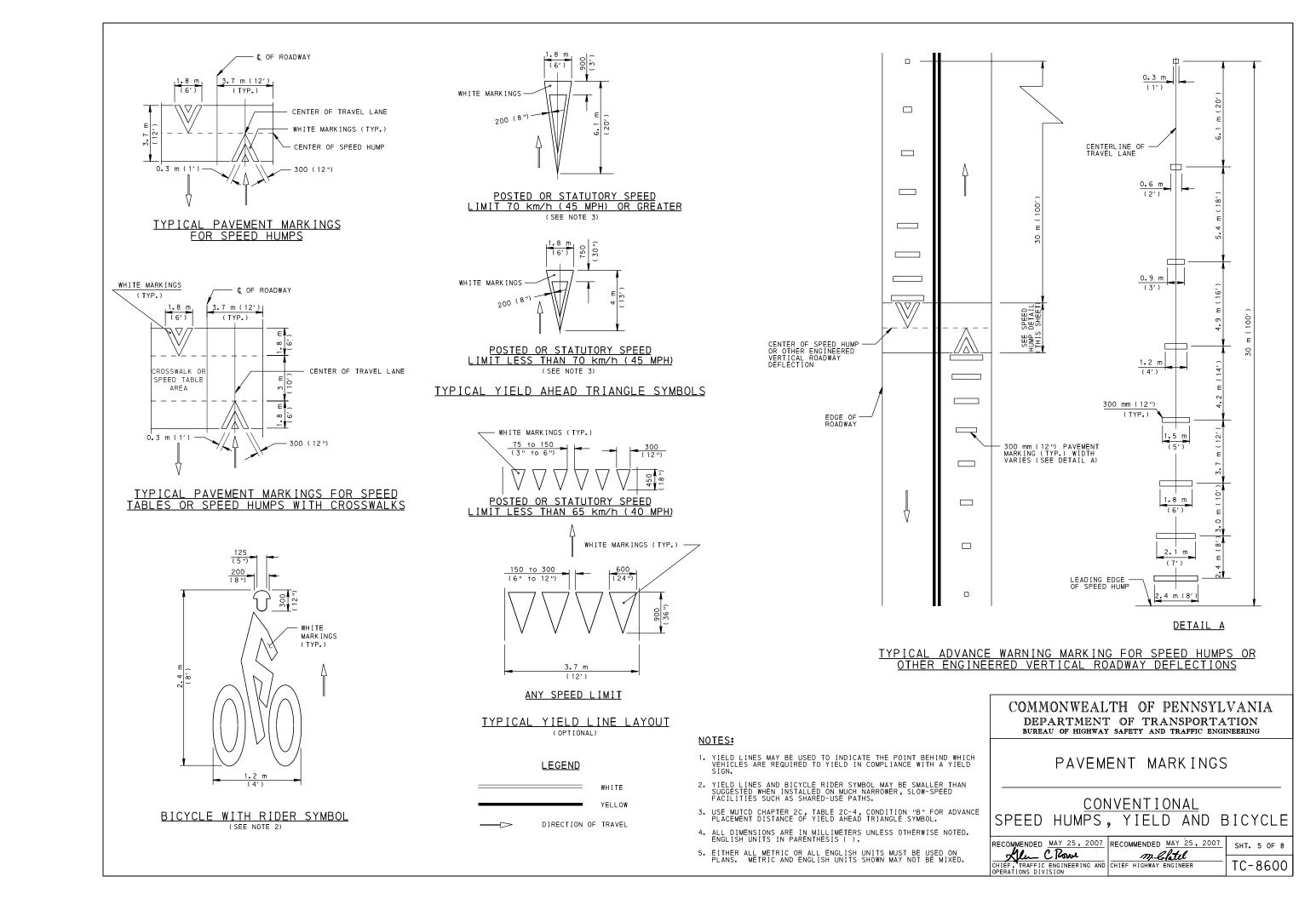
COMMONWEALTH OF PENNSYL DEPARTMENT OF TRANSPORTA bureau of highway safety and traffic engi	TION
PAVEMENT MARKINGS	- 
EXPRESSWAY / FREEW	AY
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007	SHT. 2 OF 8
CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER	TC-8600

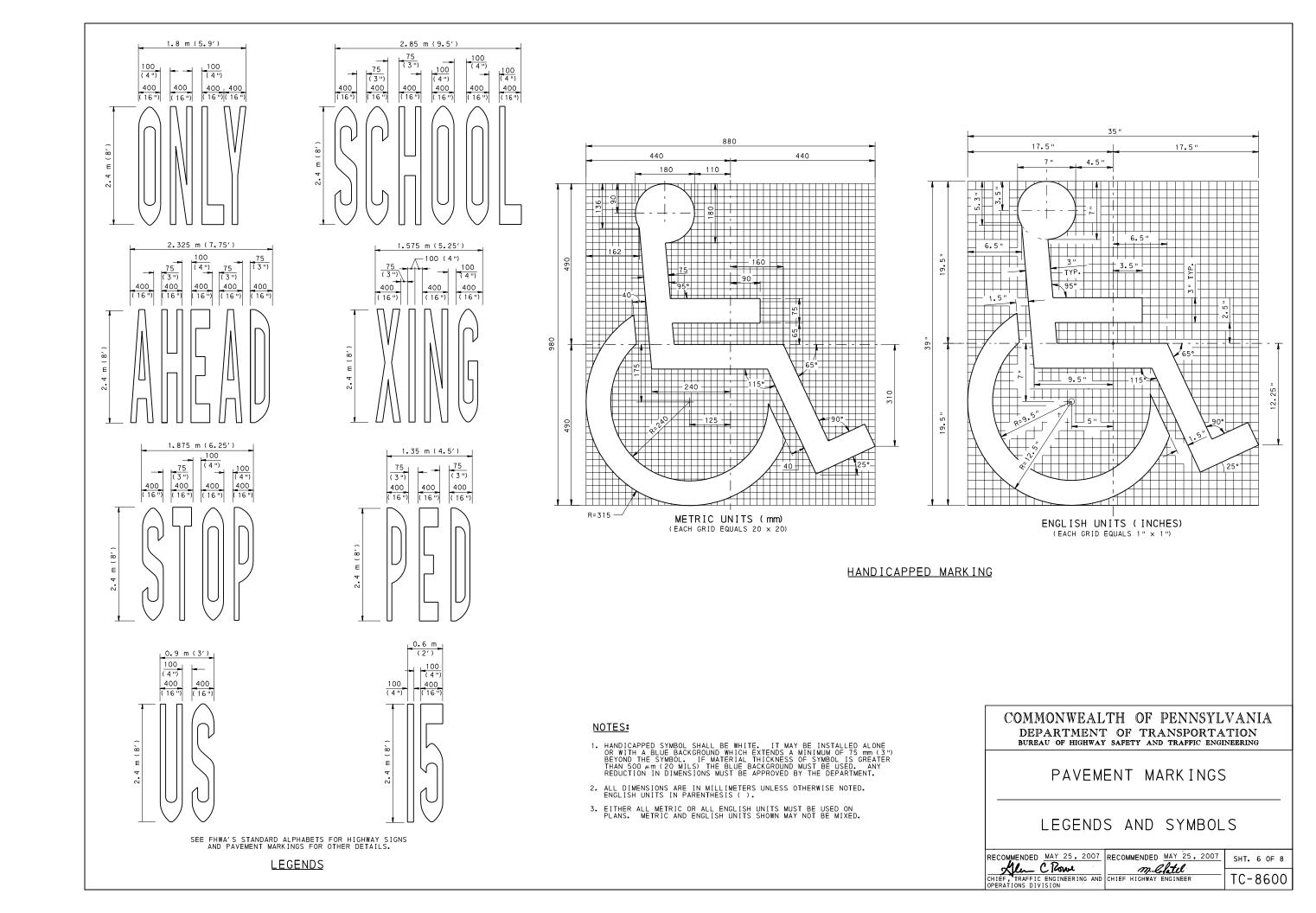


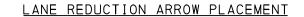
	(17) (4)
(11)	
م	
	5
	SIGNALIZED INTERSECTION
	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \text{SPEED LIMIT OR 85^{TH}} \\ \text{PERCENTILE SPEED} \\ \text{Km/h (MPH)} \\ \hline 60 & (35) & \text{OR LESS} \\ 00 & (35) \\ \hline 70 & (45) \\ 00 & (55) \\ \hline 120 & (400) \\ \hline 80 & (50) \\ 00 & (55) \\ \hline 150 & (500) \\ \hline \end{array} \end{array}$
WIDE ON	19. ALIGN THE LEGENDS TRANSVERSELY ACROSS EACH PAVEMENT. THE MINIMUM DISTANCE BETWEEN THE ARROW SYMBOL AND STOP BAR IS 6 m (20').
HITE FOR	RAILROAD CROSSING MARKINGS
I TE TURN	20. CENTER THE RAILROAD SYMBOLS WITHIN EACH LANE ON ALL PAVED APPROACHES TO HIGHWAY RAIL GRADE CROSSINGS. IN THOSE
LLOW	SITUATIONS WHERE THERE IS INADEQUATE SPACE FOR THE PAVEMENT MARKINGS OR WHERE THE INSTALLATION WOULD CREATE OPERATIONAL PROBLEMS WITH TURNING LANES OR OTHER SPECIAL CONDITIONS, PAVEMENT MARKINGS ARE NOT REQUIRED PROVIDING AN ENGINEERING
WIDE	PAVEMENT MARKINGS ARE NOT REQUIRED PROVIDING AN ENGINEERING STUDY INDICATES THAT OTHER TRAFFIC CONTROL DEVICES PROVIDE SUITABLE WARNING AND CONTROL.
LL NS	21. ON MULTI-LANE ROADS EXTEND THE TRANSVERSE LINES ACROSS ALL TRAFFIC LANES ON EACH APPROACH AND USE INDIVIDUAL SYMBOLS
AY	IN EACH APPROACH LANE.
ER LINES	22. LOCATE A PORTION OF RAILROAD PAVEMENT MARKING SYMBOL DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN W10-1. USE DIMENSION "C" FOR PLACEMENT OF ADVANCE WARNING SIGN W10-1.
m (150′)	23. LOCATE STOP LINES 2.4 m (8') FROM THE GATE (IF PRESENT), BUT NO CLOSER THAN 4.6 m (15') FROM THE NEAREST RAIL.
, MARKING	DOTTED EXTENSION LINES
SHOULDER	24. DOTTED EXTENSION LINES MAY BE USED TO DELINEATE TRAVEL PATHS FOR TURNING TRAFFIC MOVEMENTS AT OFFSET, SKEWED OR COMPLEX INTERSECTIONS AND FOR MULTIPLE TURN LANES.
	LANE REDUCTION ARROW (LRA)
	25. FOR DETAILS SEE SHEET 7 OF 8. <u>GENERAL</u>
LANE. AT	26. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
OCATION F THE E	
SECTION, E SIGHT	27. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.
TO THE	
POINTING	
THE	COMMONWEALTH OF PENNSYLVANIA
	DEPARTMENT OF TRANSPORTATION
Ť	BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
AL LINES OR	PAVEMENT MARKINGS
IF A TION, E SHOULD NCE OF	CONVENTIONAL
HEIGHT FOR FOR HIGH- THE LANE.	RECOMMENDED <u>MAY 25, 2007</u> RECOMMENDED <u>MAY 25, 2007</u> SHT. 3 OF 8
	CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER TC-8600



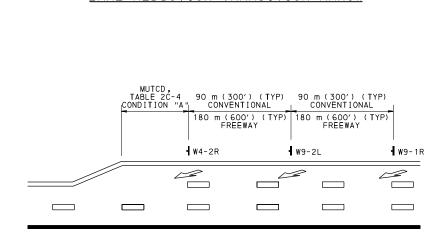
	——————————————————————————————————————	
	WHITE OR YELLOW	
PASSING ZO H DIRECTIO	NE <u>EDGE_LINE</u> OFFSET_DETAIL	
ADWAY		
1320') TY		
E NOTE 7)	R3-9B	t 150 (6")
		_ INE
	CENTER LINE	
	<u>OFFSET DETAIL</u>	
ARE		
	(- C	RDS RIGHT SIDE
<u>adway</u> E		TRAVELWAY
	WHITE LANE LI	NE
	<u>LANE LINE</u> OFFSET DETAIL	
	NOTES:	
	<ol> <li>OFFSET PAVEMENT MARKING LINES 100 mm (4") FROM LO PAVEMENT CONSTRUCTION JOINTS, AS DETERMINED BY TH OR AS INDICATED BELOW:</li> </ol>	
	<ul> <li>YELLOW SKIP LINES ON TWO-LANE, TWO-WAY ROADWA PASSING IS ALLOWED IN BOTH DIRECTIONS) CAN BE (3") FROM THE CENTER LINE TO ALLOW FOR FUTURE OF THE LINES WITH COMPATIBLE DEPARTMENT EQUIP</li> </ul>	YS (WHERE OFFSET 75 mm REPAINTING
	- OFFSET DOUBLE YELLOW CENTER LINES (5 mm (3") OF THE CENTER LINE TO ALLOW FOR PLACEMENT OF	MENT. ON EACH SIDE PAVEMENT
	MARKERS (PRESENT OR FUTURE PLACEMENT). 2. PASSING - NO PASSING ZONES WILL BE DETERMINED BY	
	3. EDGE LINES ARE NOT REQUIRED ALONG CURB AND GUTTER	
	<ol> <li>DO NOT CONTINUE EDGE LINES THRU INTERSECTIONS, AN EDGE LINES AT DRIVEWAYS.</li> </ol>	D DO NOT BREAK
	<ol> <li>PLACE EDGE LINES AT RAISED ISLAND LOCATIONS, OUTL SHAPE OF THE RAISED ISLAND.</li> </ol>	INING THE
	6. 96 m (320') TYPICAL SPACING BETWEEN SETS OF ARROW BE INCREASED OR DECREASED AS DETERMINED BY THE EN	SYMBOLS CAN GINEER.
	7. 400 m (1320') TYPICAL DISTANCE BETWEEN CENTER LAN ONLY SIGNS (R3-9B) CAN BE INCREASED OR DECREASED BY THE ENGINEER.	E - LEFT TURN AS DETERMINED
	8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWIS ENGLISH UNITS IN PARENTHESIS ( ).	E NOTED.
	9. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE US METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.	ED ON PLANS.
MIN. MAX.	METRIC AND ENGLISH DIVITS SHOWN WAT NOT DE MINED.	
NAL)	COMMONWEALTH OF PENNSYL	VANIA
	DEPARTMENT OF TRANSPORTA BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGL	
	PAVEMENT MARKINGS	
	CONVENTIONAL	
WHITE		
YELLOW	RECOMMENDED MAY 25, 2007 Alle C Rows <i>m.C.L.t.l</i>	SHT. 4 OF 8
TRAVEL	CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER OPERATIONS DIVISION	TC-8600

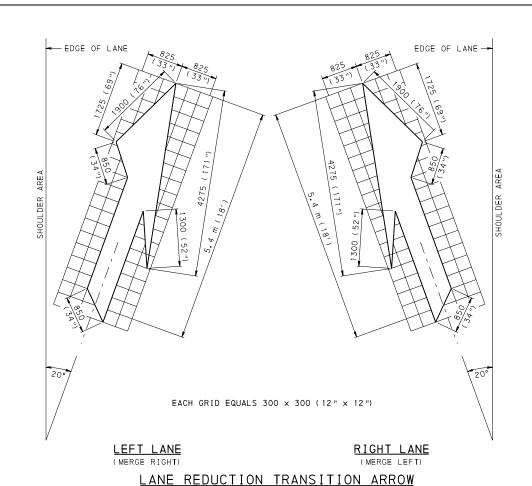






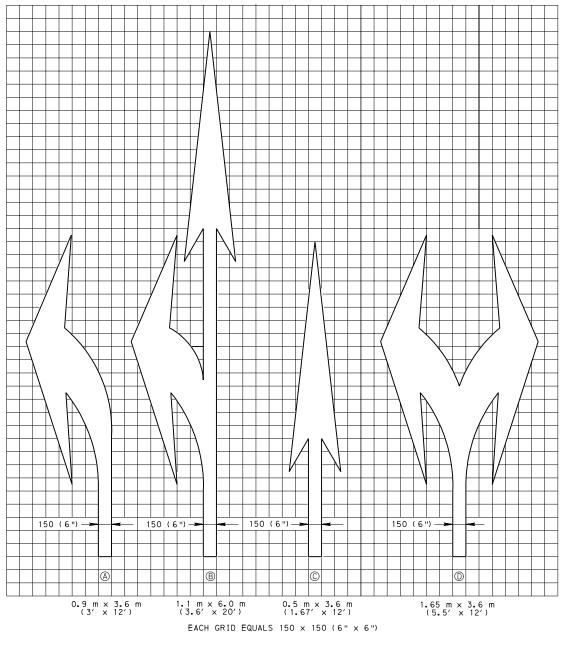
- CONVENTIONAL ROADWAYS 5. PLACE ADDITIONAL LANE REDUCTION ARROWS AT 90 m (300') INTERVALS.
- INTERSTATE EXPRESSWAY/FREEWAY 4. PLACE ADDITIONAL LANE REDUCTION ARROWS AT 180 m (600') INTERVALS.
- 3. FOLLOW MUTCD TABLE 2C-4 (CONDITION A) FOR PLACEMENT OF FIRST LANE REDUCTION ARROW IN ADVANCE OF TAPER.
- 2. PLACE LRAS IN GROUPS OF THREE WHEN CONDITIONS PERMIT.
- 1. LOCATE LRA IN CENTER OF LANE.





## MARKING ARROWS

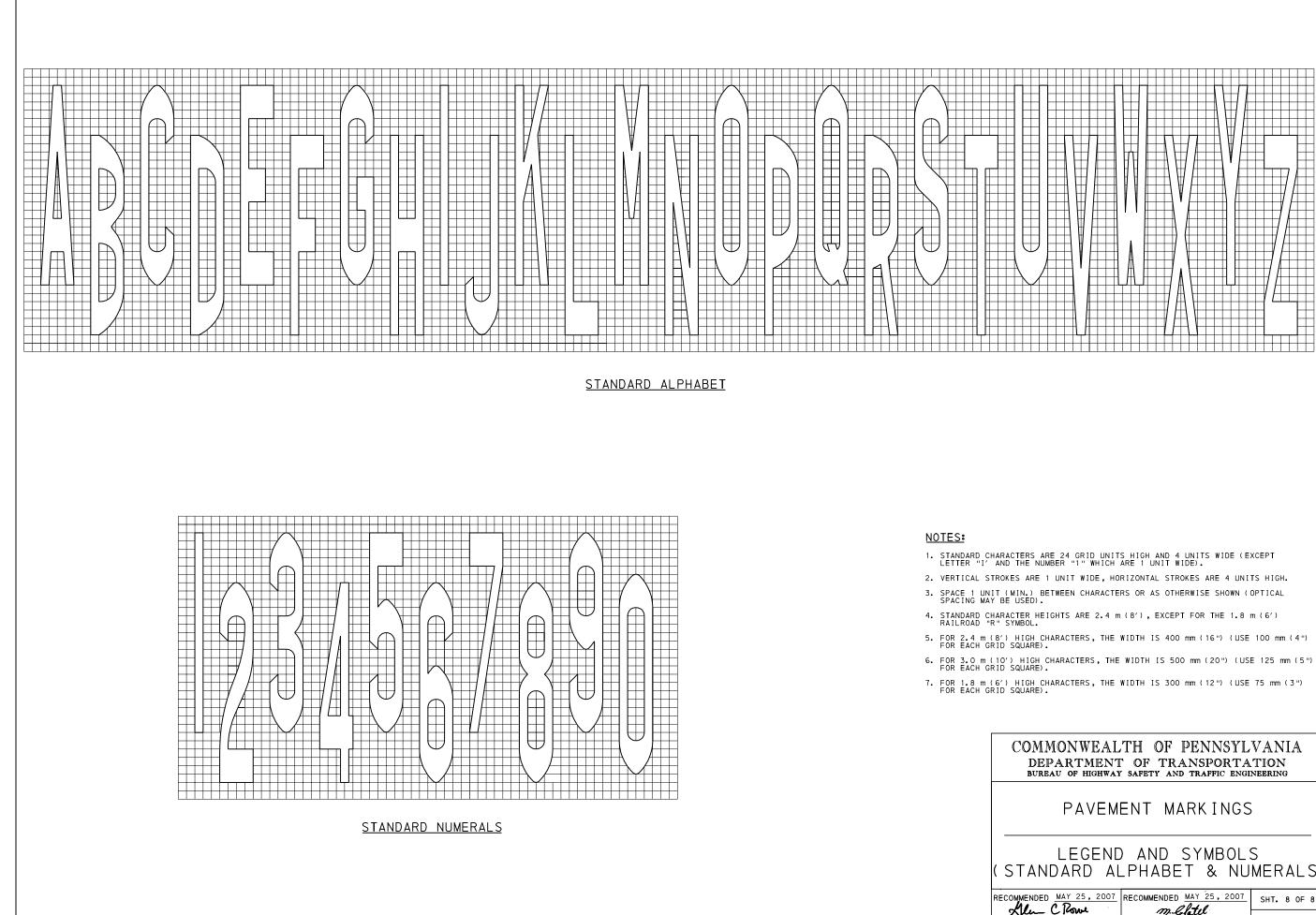
ARRÓW	QUANTITY FOR PAVEMENT MARKING REMOVAL
A	1.11 m <sup>2</sup> (20 FT <sup>2</sup> )
B	2.04 m <sup>2</sup> (32 FT <sup>2</sup> )
©	0.84 m <sup>2</sup> (13 FT <sup>2</sup> )
0	1.95 m <sup>2</sup> (32 FT <sup>2</sup> )



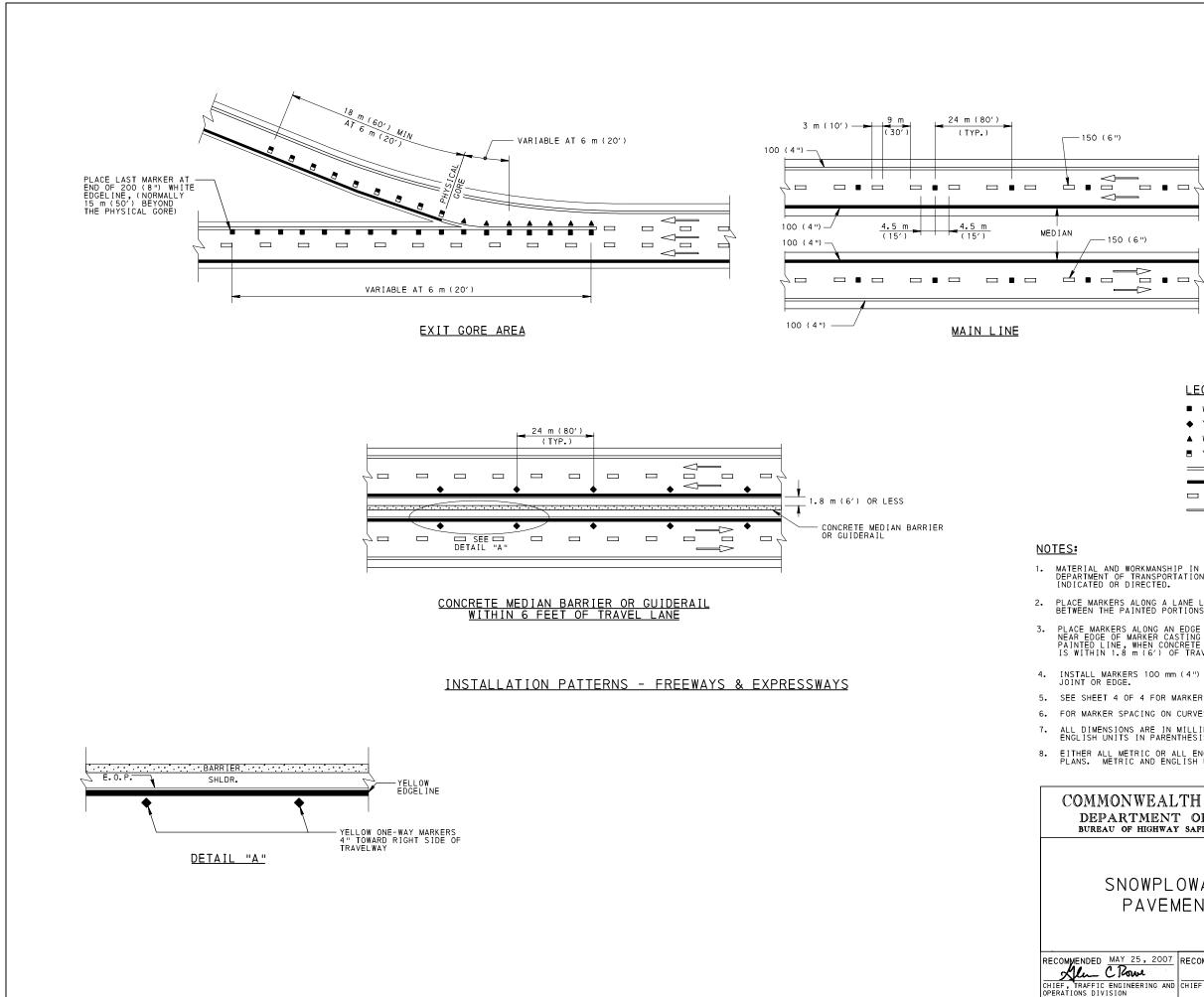
#### NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- 2. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYL DEPARTMENT OF TRANSPORTA bureau of highway safety and traffic engi	TION
PAVEMENT MARKINGS	
LEGENDS AND SYMBOL	S
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007	SHT. 7 OF 8
CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER OPERATIONS DIVISION	TC-8600



PAVEMENT MARKINGS	
LEGEND AND SYMBOLS (STANDARD ALPHABET & NU	
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007	SHT. 8 OF 8
CHIEF TRAFFIC ENGINEERING AND OPERATIONS DIVISION	TC-8600



#### <u>LEGEND</u>

- WHITE ONE-WAY MARKER
- ♦ YELLOW ONE-WAY MARKER
- ▲ WHITE/RED TWO-WAY MARKER

YELLOW/RED TWO-WAY MARKE
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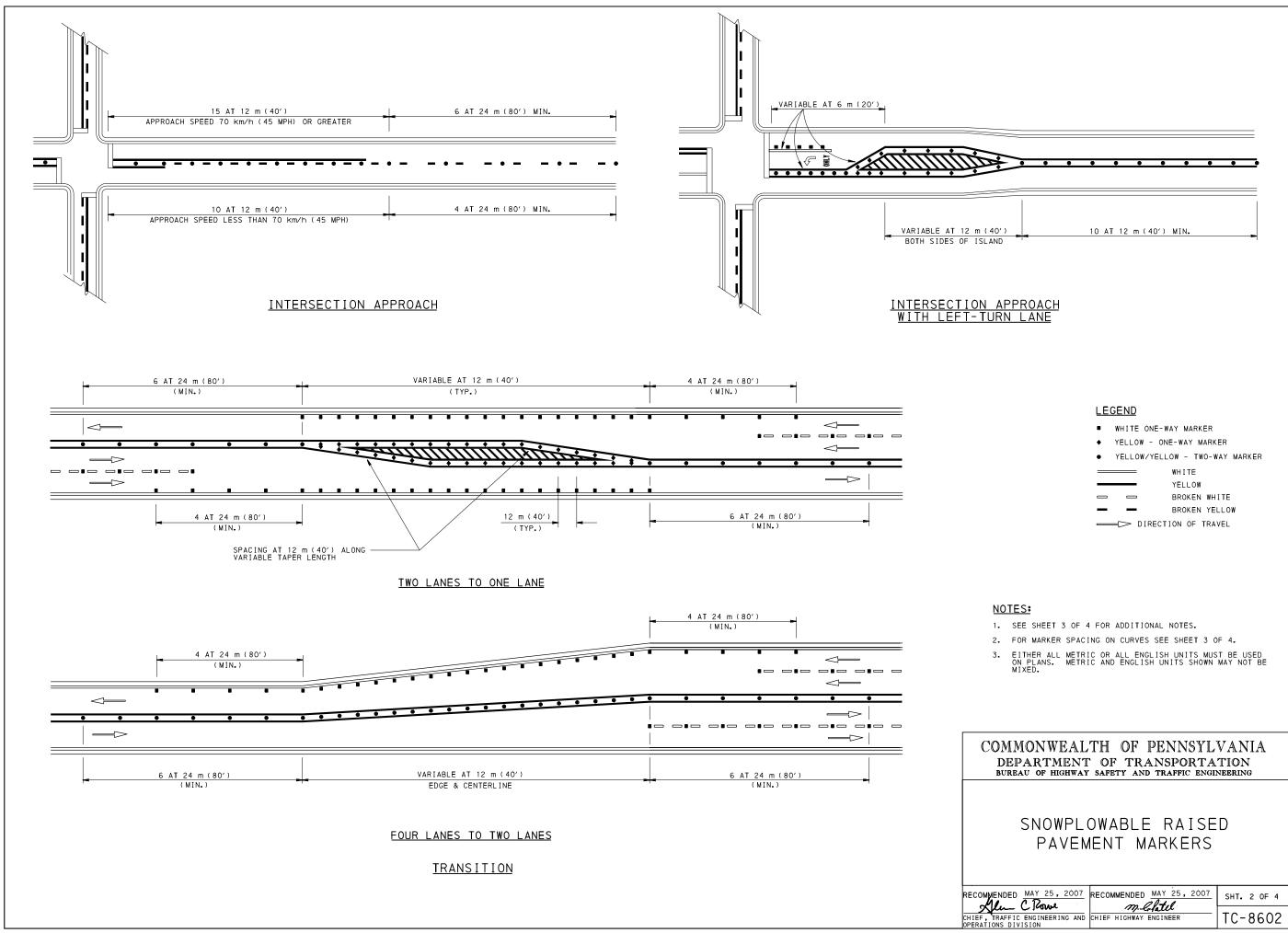
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	-	YEL	LOW	I
C		BRC	)KEN	WHITE
->	DIREC	TION	0F	TRAVEL

- MATERIAL AND WORKMANSHIP IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, OR AS INDICATED OR DIRECTED.
- 2. PLACE MARKERS ALONG A LANE LINE (BROKEN LINE) MIDWAY BETWEEN THE PAINTED PORTIONS.
- 3. PLACE MARKERS ALONG AN EDGE OR CHANNELIZING LINE WITH NEAR EDGE OF MARKER CASTING 100 mm (4") FROM NEAR EDGE OF PAINTED LINE, WHEN CONCRETE MEDIAN BARRIER OR GUILDRAIL IS WITHIN 1.8 m (6') OF TRAVEL LANE.
- INSTALL MARKERS 100 mm (4") MIN. FROM ANY PAVEMENT SEAM, JOINT OR EDGE.
- 5. SEE SHEET 4 OF 4 FOR MARKER DETAILS.
- 6. FOR MARKER SPACING ON CURVES SEE SHEET 3 OF 4.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

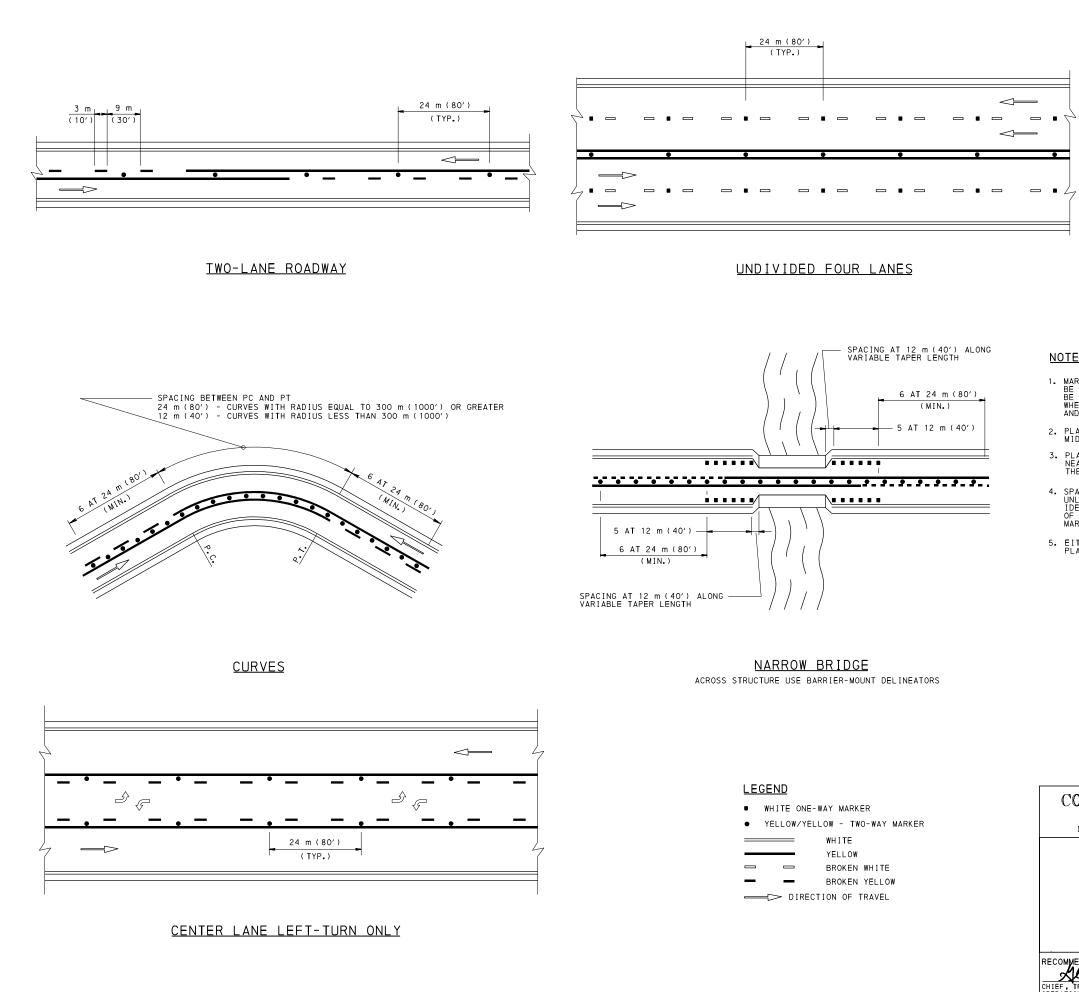
#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING

### SNOWPLOWABLE RAISED PAVEMENT MARKERS

RECOMMENDED MAY 25, 2007 Alle C Row	RECOMMENDED MAY 25, 2007	SHT. 1 OF 4
Xen Crow	mlafatel	
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8602



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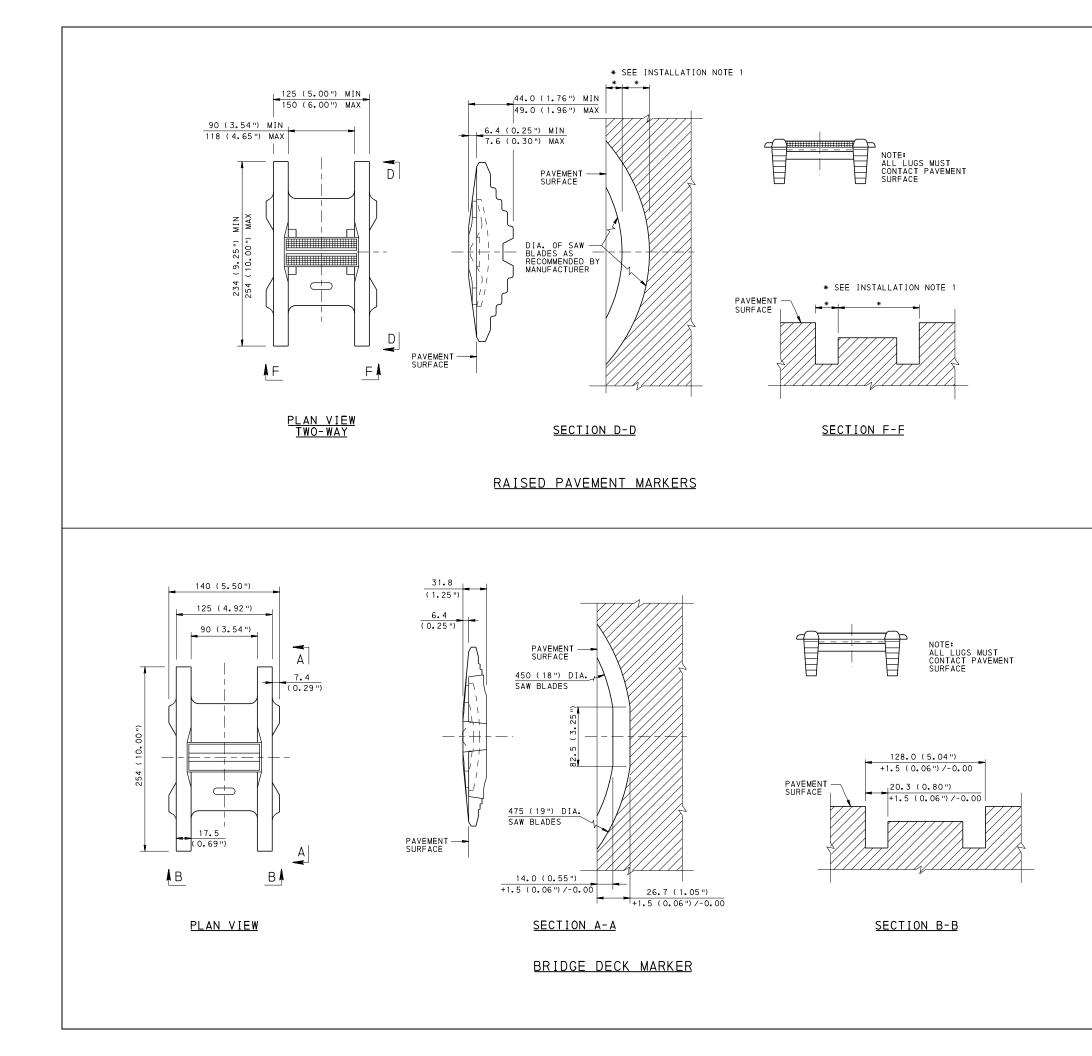
#### NOTES:

- MARKERS INSTALLED AT THE DOUBLE YELLOW CENTER LINE SHALL BE PLACED BETWEEN THE TWO PAINTED LINES. MARKERS SHALL NOT BE PLACED WITHIN THE LIMITS OF THE PAINTED LINES EXCEPT WHERE LINES DEVIATE VISIBLY FROM THEIR CORRECT ALIGNMENT, AND THEN ONLY WITH THE APPROVAL OF THE ENGINEER.
- 2. PLACE MARKERS INSTALLED ALONG A LANE LINE (BROKEN LINE) MIDWAY BETWEEN THE PAINTED PORTION.
- PLACE MARKERS ALONG AN EDGE OR CHANNELIZING LINE WITH THE NEAR EDGE OF THE MARKER CASTING 25 mm (1") MAXIMUM FROM THE NEAR EDGE OF THE PAINTED LINE.
- 4. SPACE MARKERS INSTALLED AT THE CENTERLINE AT 24 m (80') UNLESS OTHERWISE SHOWN ON THE DRAWINGS. (AT LOCATIONS IDENTIFIED AS FOG AREAS OR AREAS WITH A HIGH INCIDENCE OF HEAD-ON OR SIDESWIPE ACCIDENTS, SPACE THE CENTERLINE MARKERS AT 12 m (40')).
- 5. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING

### SNOWPLOWABLE RAISED PAVEMENT MARKERS

RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007 <i>m.C.fatel</i>	SHT. 3 OF 4
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION		TC-8602



#### INSTALLATION NOTES:

- 1. SAW CUT TO DIMENSIONS RECOMMENDED BY MANUFACTURER.
- 2. INSPECT SAW CUT FOR PROPER FIT OF THE MARKER.
  - -PROVIDE APPROXIMATELY 3.2 mm (0.125") CLEARANCE (SIDE-TO-SIDE MOVEMENT) FOR THE CASTING WHEN INSERTED INTO THE CUT.
  - -INSTALL MARKER WITH ALL LEVELING LUGS IN CONTACT WITH THE PAVEMENT.
  - -INSURE THE LEADING EDGES OF THE CASTING LIE BELOW THE PAVEMENT SURFACE.
- 3. SAW CUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BOND.
- 4. INSTALL THE MARKERS WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE, LISTED IN BULLETIN 15, BY FIRST FILLING THE SAW CUT TO WITHIN APPROXIMATELY 10 mm (0.375") OF PAYEMENT SURFACE AND THEN PLACING THE MARKER BY HAND INTO THE EPOXY FILLED SAW CUT. AFTER PLACEMENT OF MARKER, MAKE THE EPOXY FLUSH OR SLIGHTLY BELOW PAYEMENT SURFACE. NO EPOXY SHOULD OBSCURE OR BLOCK THE LENS.

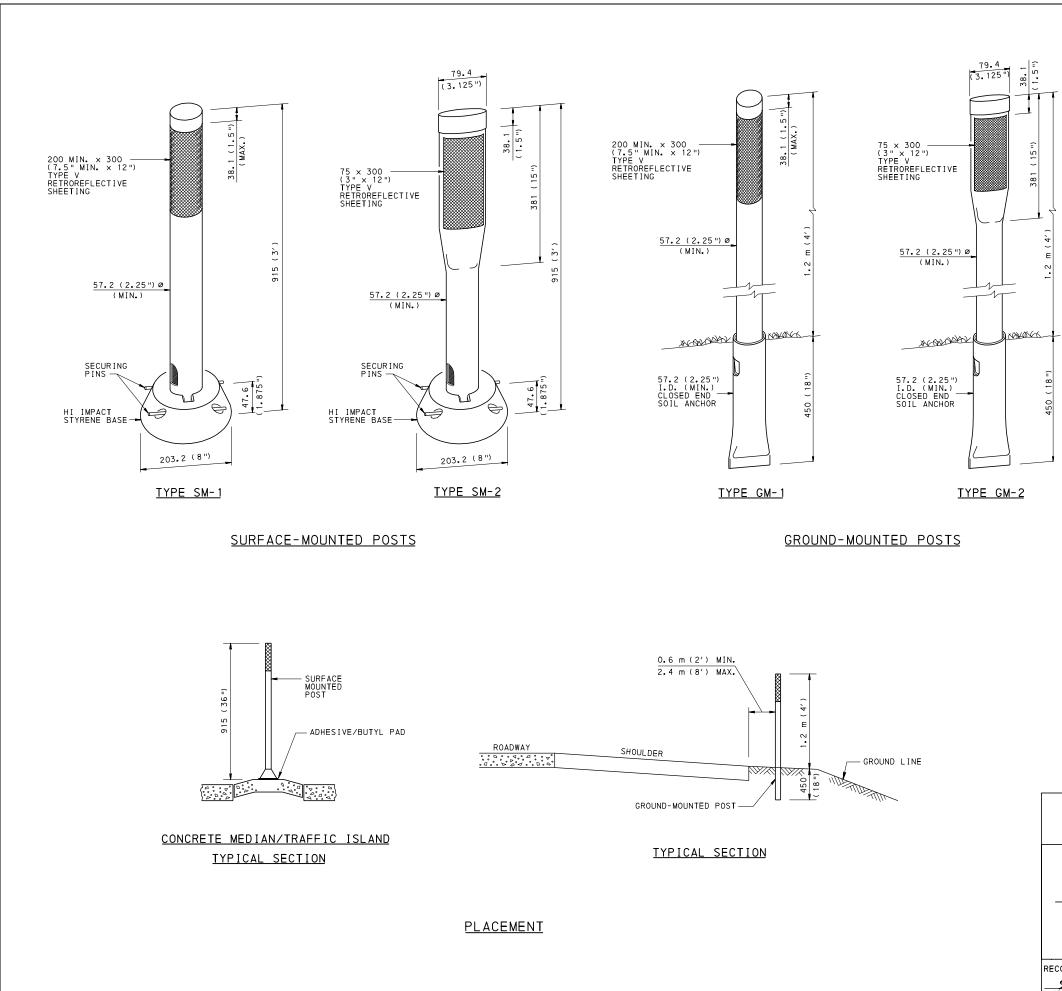
#### NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering

## SNOWPLOWABLE RAISED PAVEMENT MARKERS

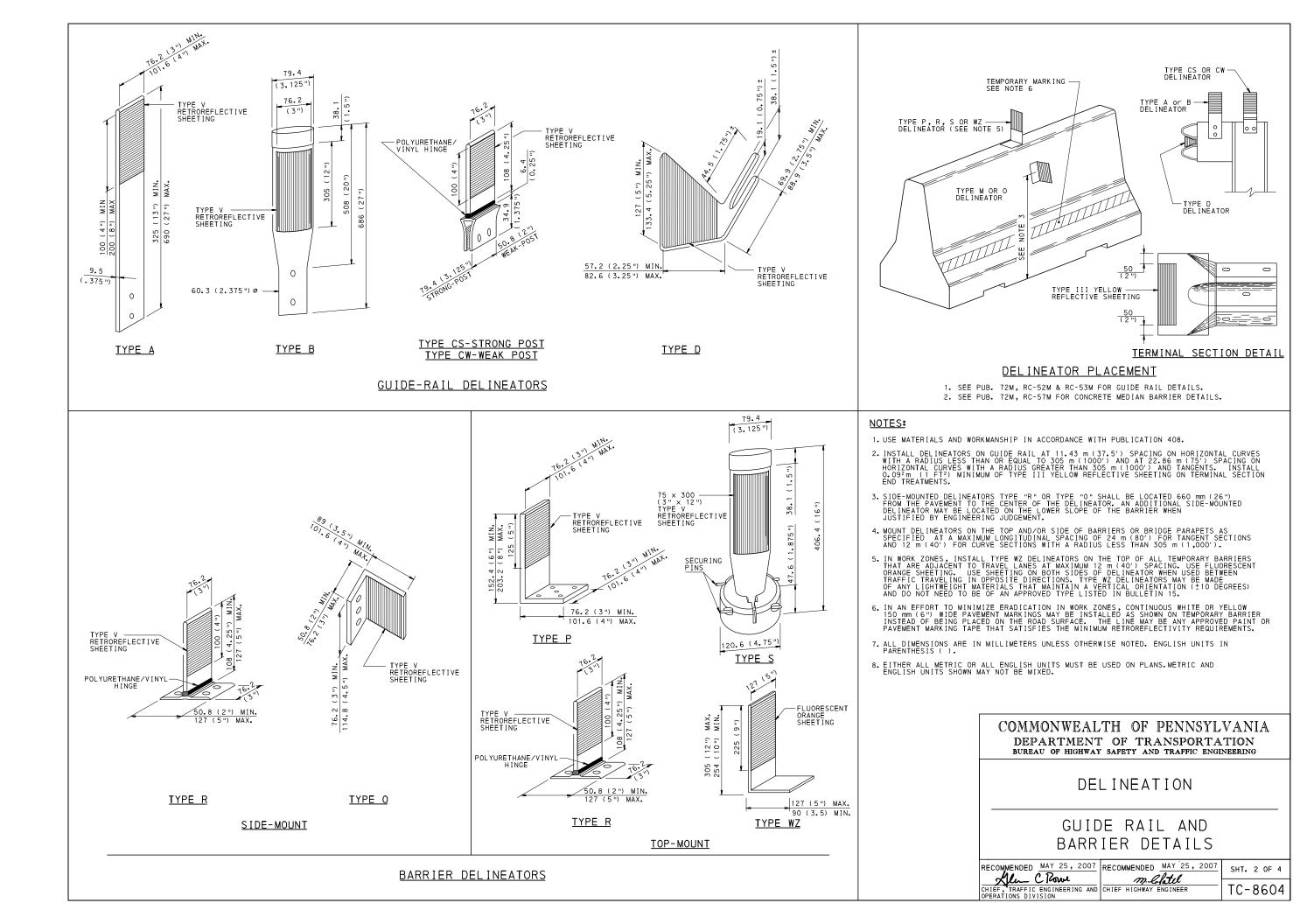
RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 4 OF 4
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION		TC-8602

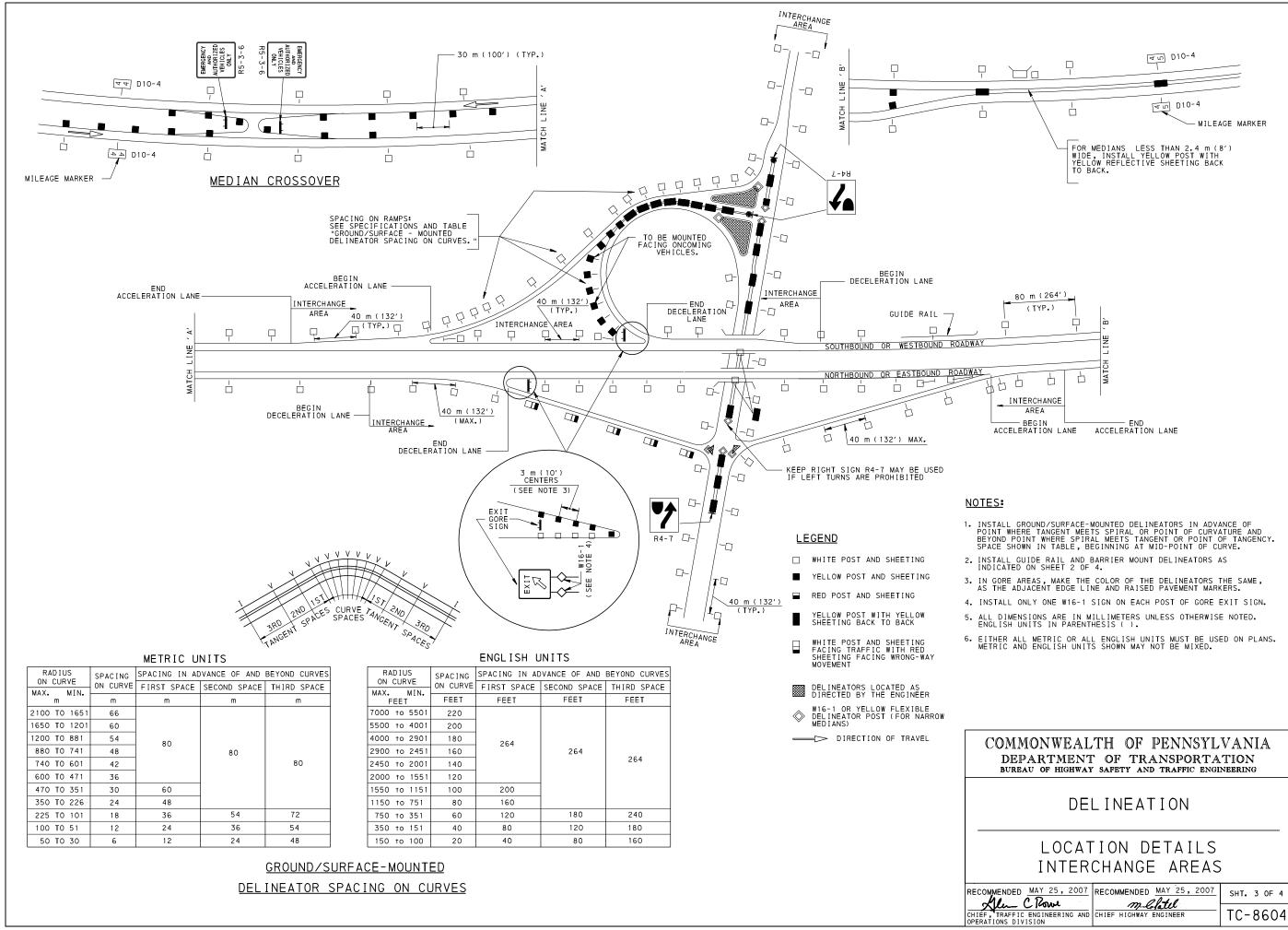


#### NOTES:

- 1. USE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PUBLICATION 408.
- 2. GALVANIZED METAL SOIL ANCHOR, AFTER FABRICATION, IN ACCORDANCE WITH ASTM A 123.
- FOR GUIDE RAIL AND BARRIER DELINEATORS, SEE SHEET 2 OF 4.
- 4. FOR INTERCHANGE AREAS LOCATION DETAILS, SEE SHEET 3 OF 4.
- 5. FOR LOCATION/PLACEMENT NOTES, SEE SHEET 4 OF 4.
- 6. FOR DELINEATOR SPACING ON CURVES, SEE SHEET 3 OF 4.
- USE TYPE SM-1 AND GM-1 POSTS IN AREAS WHERE TRAFFIC MOVEMENTS NEED MULTI-DIRECTION DELINEATION, SUCH AS ISLANDS, RADII AT INTERSECTIONS AND THE ENDS OF MEDIANS.
- 8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYL DEPARTMENT OF TRANSPORTA bureau of highway safety and traffic engi	TION
DELINEATION	
FLEXIBLE POSTS DETA	ILS
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007	SHT. 1 OF 4
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	TC-8604





	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING DELINEATION LOCATION DETAILS INTERCHANGE AREAS
	DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING DELINEATION
	DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
	DEPARTMENT OF TRANSPORTATION
	COMMONWEALTH OF DENNSYLVANIA
6.	<ul> <li>EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.</li> </ul>
5.	. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
4.	. INSTALL ONLY ONE W16-1 SIGN ON EACH POST OF GORE EXIT SIGN.
3.	. IN GORE AREAS, MAKE THE COLOR OF THE DELINEATORS THE SAME, AS THE ADJACENT EDGE LINE AND RAISED PAVEMENT MARKERS.
	INDICATED ON SHEET 2 OF 4.
2.	. INSTALL GUIDE RAIL AND BARRIER MOUNT DELINEATORS AS
	INSTALL GROUND/SURFACE-MOUNTED DELINEATORS IN ADVANCE OF POINT WHERE TANGENT MEETS SPIRAL OR POINT OF CURVATURE AND BEYOND POINT WHERE SPIRAL MEETS TANGENT OR POINT OF TANGENCY. SPACE SHOWN IN TABLE, BEGINNING AT MID-POINT OF CURVE. INSTALL GUIDE RAIL AND BARRIER MOUNT DELINEATORS AS

1.	LOCATION:	3.	VERTICAL PLACEMENT
	A. <u>LIGHTED THROUGH ROADWAYS</u> - DO NOT PLACE DELINEATORS ON THE THROUGH ROADWAY BETWEEN INTERCHANGES WHERE FIXED SOURCE LIGHTING IS INSTALLED UNLESS OTHERWISE SPECIFIED.		INSTALL DELINEATORS THAT THE CONCRETE BARRIERS OR GUIDE RA
	<ul> <li>B. <u>UNLIGHTED THROUGH ROADWAYS</u> - ON ROADWAYS WITHOUT FIXED SOURCE LIGHTING, CONTINUOUSLY PLACE DELINEATORS ALONG THE RIGHT SIDE OF THE THROUGH ROADWAYS. PLACE DELINEATORS ON THE LEFT SIDE OF THROUGH ROADWAYS AT THE FOLLOWING LOCATIONS:         <ol> <li>WHERE GUIDE RAIL OR CONCRETE BARRIER IS LOCATED ON THE LEFT WITHIN 1.8 m (6') OF THE EDGE OF SHOULDER.</li> <li>ALONG RIGHT-HAND HORIZONTAL CURVES WITH A RADIUS OF 600 m (2000') OR LESS.</li> <li>ALONG COMBINATIONS OF OVER-VERTICALS AND RIGHT-HAND HORIZONTAL CURVES</li> </ol> </li> </ul>	4.	A. <u>NO GUIDE RAIL</u> - INSTALL DE SHOULDER, OR AS DIRECTED. B. <u>GUIDE RAIL</u> - INSTALL DEL INDICATED ON SHEET 2 OF 4
	<ul> <li>WITH A RADIUS LESS THAN 880 m (2900').</li> <li>IV. ON THE APPROACH AND THROUGHOUT LEFT LANE DROPS OR PAVEMENT WIDTH TRANSITIONS.</li> <li>V. WITHIN THE LIMITS OF MEDIAN CROSSOVERS (AS SHOWN ON SHEET 3 OF 4).</li> <li>VI. WITHIN THE LIMITS OF VARIABLE MEDIAN WIDTHS (AS SHOWN ON SHEET 3 OF 4).</li> <li>VII. ALONG PAVED MEDIANS WITH CURBING.</li> </ul>		OF SHOULDER. DO NOT USE RAIL IS MORE THAN 2.4 m ( SPECIFIED IN NOTE 4.A. C. <u>CURB IN PLACE</u> - INSTALL D EXCEED 2.4 m (8') BEHIND THE EDGE OF SHOULDER, INS
	<ul> <li>C. INTERCHANGE AREAS - PLACE DELINEATORS ALONG THE RIGHT SIDE IN ALL INTERCHANGE AREAS AND ALONG THE LEFT SIDE WITHIN THE LIMITS OF ALL LEFT-HAND RAMPS. PLACE DELINEATORS ALONG ACCELERATION, DECELERATION AND SPEED CHANGE LANES; ALONG THE RIGHT SIDE OF THE THROUGH ROADWAY AND ALONG THE OUTSIDE OR BOTH SIDES AS SPECIFIED ON ALL RAMPS.</li> <li>D. <u>BRIDGE PARAPETS</u> - PLACE DELINEATORS ON PARAPETS OF ALL BRIDGES WHERE RPMs ARE USED ON APPROACH ROADWAY.</li> </ul>		D. <u>OBSTRUCTION MARKERS</u> - INS OBSTRUCTION. E. <u>MAINTENANCE MARKERS</u> - INS (END PIPE, END WALL, INLE
	<ul> <li>USED ON APPROACH ROADWAY.</li> <li>SPECIAL PURPOSE DELINEATION - PLACE OBJECT AND CLEARANCE MARKER GROUP (W16 SERIES) ALONG THE THROUGH ROADWAY AND WITHIN THE INTERCHANGE AREA AS SPECIFIED IN ADDITION TO THE ABOVE SPECIFIED DELINEATORS.</li> <li>MAINTENANCE MARKERS - PLACE ONE RED FLEXIBLE DELINEATOR POST ADJACENT TO NEAR EDGE OF MAINTENANCE APPURTENANCE (END PIPE, END WALL, INLET, ETC). MATCH REFLECTIVE SHEETING COLOR WITH THE NEAREST PAVEMENT MARKING EDGE LINE COLOR.</li> </ul>	5.	TYPES OF DELINEATOR         A.       WHITE DELINEATORS - PLAC         DECELERATION AND SPEED-CL         TRAFFIC IN THE SAME DIREC         B.       YELLOW DELINEATORS - PLAC         DIVISONAL ISLANDS WHERE I         ALONG LEFT HAND ACCELERAL
2.	<ul> <li>LONGITUDINAL SPACING:</li> <li>A. <u>RIGHT SIDE OF THROUGH ROADWAYS</u> - INSTALL DELINEATORS AT 80 m (264') EXCEPT IN INTERCHANGE AREAS WITH RIGHT-HAND RAMPS, ACCELERATION OR DECELERATION LANES AND ALONG HORIZONAL CURVES.</li> <li>B. <u>LEFT SIDE OF THROUGH ROADWAYS</u> - WHEN REQUIRED, INSTALL DELINEATORS AT 80 m (264') EXCEPT IN INTERCHANGE AREAS WITH LEFT-HAND RAMPS, ACCELERATION OR DECELERATION LANES, ON MEDIAN BARRIERS AND ALONG HORIZONTAL CURVES.</li> </ul>		CROSSOVERS. ALSO AT EDGE RAIL BECOMES TANGENT TO C. <u>RED DELINEATORS</u> - PLACE ( WRONG-WAY MOVEMENT. ALSO D. <u>SPECIAL PURPOSE DELINEATO</u> E. <u>MAINTENANCE MARKERS</u> - PL/ HIGHWAY. PLACE RED POST O
	<ul> <li>C. <u>INTERCHANGE AREAS</u> - SPACE DELINEATORS IN INTERCHANGE AREA AT 40 m (132').</li> <li>D. <u>HORIZONTAL CURVES</u> - SPACE DELINEATORS AS INDICATED IN THE TABLE "GROUND/SURFACE-MOUNTED DELINEATOR SPACING ON CURVES," SEE SHEET 3 OF 4.</li> <li>E. <u>EXIT GORES, CHANNELIZING ISLANDS AND RAMP TERMINALS</u> - THE DESIGN VARIES SUFFICIENTLY AT THESE LOCATIONS MAKING TYPICAL SPACING UNAVAILABLE FOR EVERY SITUATION. DETERMINE DELINEATOR SPACING AND APPLICATION ON SITE AND AS DIRECTED BY THE ENGINEER. HOWEVER, US A MINIMUM SPACING OF 6 m (20') EXCEPT AS INDICATED.</li> </ul>		NOTES: 1. MAINTENANCE MARKERS LOCATION OF END PIPE ANY MAINTENANCE APPU DEEMED A HAZARD SHOUL 2. EITHER ALL METRIC OR METRIC AND ENGLISH UT
	<ul> <li>F. <u>SPECIAL PURPOSE DELINEATION</u> - PLACE SPECIAL PURPOSE DELINEATION (W16 SERIES) ALONG THE ROADWAY WITHOUT REGARD TO LONGITUDINAL SPACING. SPACE DELINEATION ON MEDIAN BARRIERS IN ACCORDANCE WITH NOTE 4 ON SHEET 2 OF 4.</li> <li>G. <u>MEDIAN CROSSOVERS</u> - PLACE DELINEATORS AT 30 m (100') SPACING AS INDICATED ON SHEET 3 OF 4 WITH A MINIMUM OF FIVE DELINEATORS ON THE APPROACH TO THE CROSSOVER AND THREE DELINEATORS BEYOND THE CROSSOVER.</li> <li>H. <u>MAINTENANCE MARKERS</u> - PLACE MAINTENANCE MARKERS ALONG THE ROADWAY</li> </ul>		

RE APPROXIMATELY 1.2 m (4') ABOVE THE GROUND. INSTALL ON INDICATED ON SHEET 2 OF 4.

TORS 0.6 m (2') TO 2.4 m (8') BEHIND THE OUTER EDGE OF THE

RS IN THE WEB OF GUIDE RAIL OR ON GUIDE RAIL POSTS, AS THE GUIDE RAIL IS LESS THAN 2.4 m (8') FROM THE OUTER EDGE ID-MOUNTED DELINEATORS IN AREAS WITH GUIDE RAIL. IF THE GUIDE ROM THE OUTER EDGE OF THE SHOULDER, INSTALL DELINEATORS AS

ATORS IMMEDIATELY BEHIND CURB PROVIDED PLACEMENT WILL NOT DGE OF SHOULDER. IF THE CURB IS MORE THAN 2.4 m (8') FROM DELINEATORS AS SPECIFIED IN NOTE 4.A.

DBSTRUCTION MARKER DELINEATORS ADJACENT TO NEAR EDGE OF THE

MARKERS ADJACENT TO NEAR EDGE OF THE APPURTENANCE ...).

RIGHT SIDE OF THROUGH ROADWAYS, ALONG RIGHT-HAND ACCELERATION, LANES, RAMPS AND ON CHANNELIZING OR DIVISIONAL ISLANDS WHERE WAY PROCEED ON BOTH SIDES OF THE ISLAND.

LEFT SIDE OF THROUGH ROADWAYS, RAMPS AND ON CHANNELIZING OR C IN THE SAME DIRECTION TRAVELS TO THE RIGHT OF THE ISLAND AND DECELERATION AND SPEED CHANGE LANES AND ON FAR SIDE OF MEDIAN STRUCTIONS ADJACENT TO THE ROADWAY AND AT POINT WHERE GUIDE DWAY.

HT, LEFT, OR BOTH SIDES OF ROADWAYS OR RAMPS TO INDICATE ON BOTH SIDES OF RUN-AWAY TRUCK ESCAPE RAMPS.

<u>5-1) MARKERS</u> - PLACE MARKERS AT LOCATIONS SHOWN ON SHEET 3 OF 4.

POST WITH WHITE REFLECTIVE SHEETING ON RIGHT SIDE OF THROUGH LLOW REFLECTIVE SHEETING ON LEFT SIDE OF THROUGH HIGHWAY.

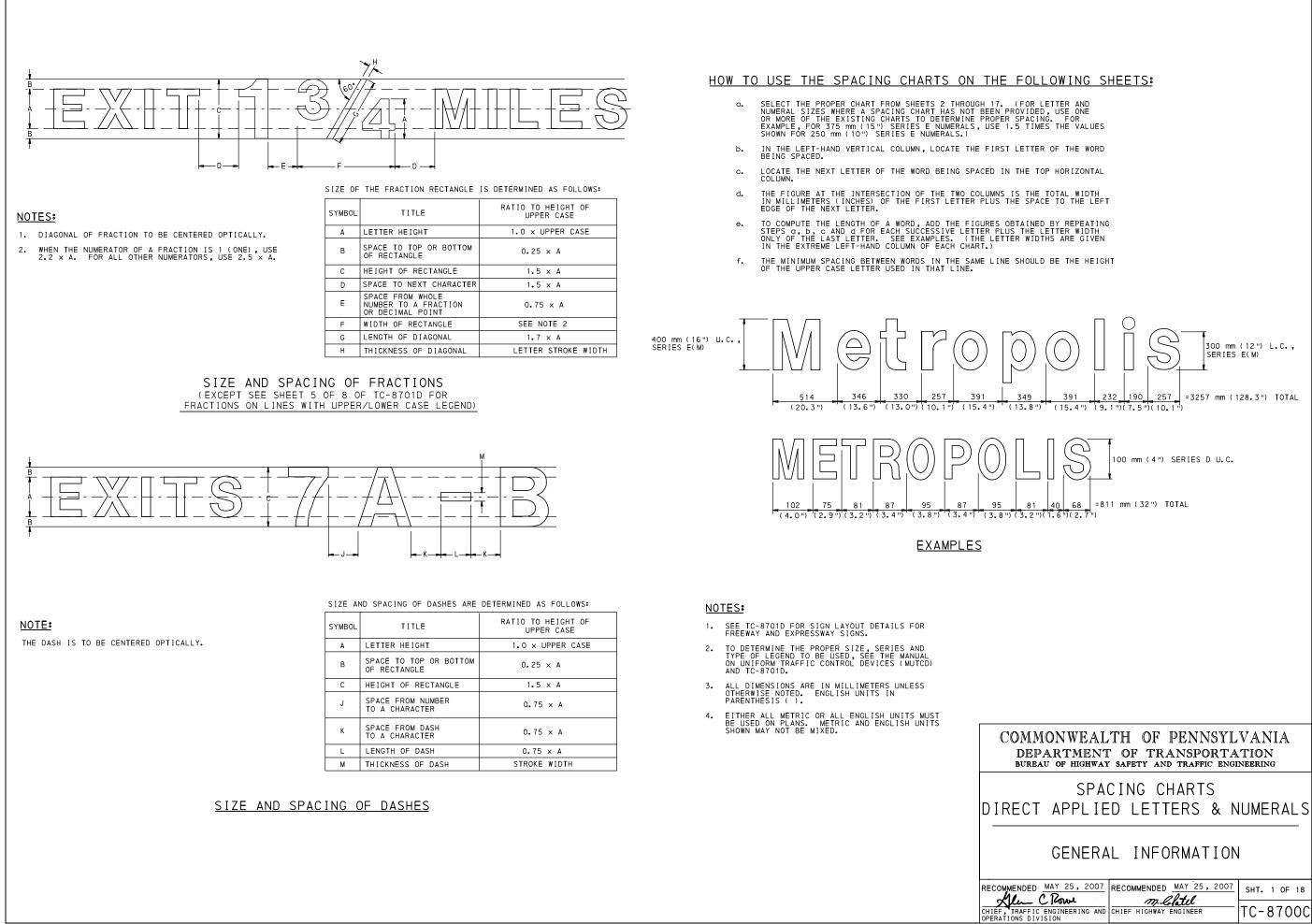
) FLEXIBLE DELINEATOR POSTS INSTALLED TO CALL OUT THE WALLS, INLETS, ETC... FOR MAINTENANCE PURPOSES ONLY. 22 WIITHIN OR ADJACENT TO THE ROADWAY THAT IS XEMOVED, MODIFIED OR DELINEATED AS SUCH. NGLISH UNITS MUST BE USED ON PLANS. HOWN MAY NOT BE MIXED.

> COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING

DELINEATION AND MARKERS

LOCATION / PLACEMENT NOTES

RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007 <i>m. C. fatul</i>	SHT. 4 OF 4
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CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8604



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486	R			42						91					38	584			31		638	646
486	S			31						80					19	582	616				623	635
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486	U			91						03					30	642			68		677	696
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NOTE:

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50 3 a 5 b 5 c 6 e 6 g 6 f 7 j 6 k 1 i 7 j 6 k 1 m	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c} \underline{9} & \underline{7} & \underline{7} & \underline{7} & \underline{7} & \underline{7} & \underline{5} & \underline{5} & \underline{9} & \underline{7} \\ \hline \underline{b} & \underline{h} & \underline{i} & \underline{k} & \underline{i} & \underline{m} & \underline{n} & \underline{p} \\ \hline 343 & 318 & \\ & 318 & \\ & 318 & \\ & 318 & \\ & 346 & \\ & 321 & \\ & 242 & \\ & 346 & \\ & 346 & \\ & 194 & \\ & 247 & \\ & 194 & \\ & 247 & \\ & 194 & \\ & 489 & \\ \end{array}$	9         0         E         E         E         E         E         I	j 286 260 264 289 267 184 289 267 184 289 137 190 257 137 432	8         1         2         3         3         3         3         3         3         3         3         3         3         3         3         1         1         2         3         1         1         2         3         1         1         3         1	£2         5           y         ×           311         288           311         291           311         311           291         311           311         311           311         311           311         311           311         311           311         311           116         211           288         116           416         46	5 3 9 2 9 2 8 3 2 2 3 2 8 3 2 2 3 2 8 3 2 2 3 2 8 3 1 9 2 2 2 1 2 2 1 2 2 3 2 2 2 1 2 2 9 2 2 2 1 2 2 9 2 2 2 2	Z           518           292           351           292           351           298           216           321           69           222           289           669           1664	20 171 171 171 171 171 171 171 17	a b c d e f g h i j k l m	m         m           a         c         d         g         o         c           254         230         c <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>m         r         <thr< th="">         r         r         r</thr<></td> <td>C         G           v         j           0         230           0         207           0         211           0         211           0         211           0         230           0         230           0         230           0         110           154         207           110         237           110         345</td> <td>Image: Figure 1         Image: Fig</td> <td></td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	m         r <thr< th="">         r         r         r</thr<>	C         G           v         j           0         230           0         207           0         211           0         211           0         211           0         230           0         230           0         230           0         110           154         207           110         237           110         345	Image: Figure 1         Image: Fig	
50 a b c d e f f g h i j k l h m n	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c} \underline{9} & \underline{7} & $	9         0         E         E           r         u         f         w         311           286         314         289         314           289         210         314         162           314         162         215         283           162         283         162         457           314         314         314         314	j 286 260 264 289 267 184 289 267 184 289 137 190 257 137 432 289	8         1         2           s         t         v         v           308         283         283         283           281         311         289         207           311         159         212         280           212         280         159         454           311         311         311         311	E         50           y         x           311           288           311           299           211           311           311           311           311           311           311           311           311           311           311           311           311           311           311           311           313	5 3 9 2 9 8 3 2 2 3 8 3 8 3 8 3 2 2 2 3 8 3 1 2 2 2 3 8 3 1 2 2 2 3 2 2 3 8 3 3 2 2 2 3 3 2 2 3 3 2 2 2 3 8 3 3 2 2 2 3 3 2 2 2 3 8 3 3 2 2 3 8 8 3 3 2 2 2 3 8 3 3 2 2 3 8 3 3 2 2 3 8 3 3 2 2 3 8 3 3 2 2 3 8 3 3 3 2 2 2 3 8 3 3 2 2 3 8 8 3 3 2 2 3 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3	Z           1118           1292           1295           121           1298           121           1208           121           1208           121           1208           1216           1221           1208           121           1222           1329           169           1222           1389           169           164           321	20 171 171 171 171 171 171 171 17	a b c d e f g h i j K	E         M         E           a         c         d         e         g         o         c           254         230         c <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>m         r         <thr< th="">         r         r         r</thr<></td> <td>C         IS           2         IS           2         230           2         207           2         211           2         230           2         211           2         230           2         211           2         230           2         230           2         230           1         10           2         230           1         110           3         345           2         300</td> <td><math display="block"> \begin{array}{c c} &amp; \begin{array}{c} \mu \\ \mu </math></td> <td></td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	m         r <thr< th="">         r         r         r</thr<>	C         IS           2         IS           2         230           2         207           2         211           2         230           2         211           2         230           2         211           2         230           2         230           2         230           1         10           2         230           1         110           3         345           2         300	$ \begin{array}{c c} & \begin{array}{c} \mu \\ \mu $	
50 3 a 5 b 5 c 5 c 6 e 6 f 6 f 6 f 7 j 8 h 1 j 1 j 1 j 1 j 1 j 1 j 1 j 1 j	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c} \underline{9} & \underline{7} & \underline{7} & \underline{7} & \underline{7} & \underline{7} & \underline{5} & \underline{5} & \underline{9} & \underline{7} \\ \hline \underline{b} & \underline{h} & \underline{i} & \underline{k} & \underline{i} & \underline{m} & \underline{n} & \underline{p} \\ \hline 343 & 318 & \\ & 318 & \\ & 318 & \\ & 318 & \\ & 346 & \\ & 321 & \\ & 242 & \\ & 346 & \\ & 346 & \\ & 194 & \\ & 247 & \\ & 194 & \\ & 247 & \\ & 194 & \\ & 489 & \\ \end{array}$	9         0         E         E         E         E         E         I	j 286 260 264 289 267 184 289 267 184 289 137 190 257 137 432	8         1         2         3         3         3         3         3         3         3         3         3         3         3         3         1         1         2         3         1         1         2         3         1         1         3         1	£2         5           y         ×           311         288           311         291           311         311           291         311           311         311           311         311           311         311           311         311           311         311           116         211           288         116           416         46	5 33 9 22 9 22 8 33 2 22 8 33 2 22 8 33 2 22 8 33 2 22 8 33 2 22 8 33 2 22 2 22	Z           518           292           351           292           351           298           216           321           69           222           289           669           1664	20 171 171 171 171 171 171 171 17	a b c d e f g h i j K l m n	m         m           a         c         d         g         o         c           254         230         c <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>m         r         <thr< th="">         r         r         r</thr<></td> <td>C         L           v         j           2300         211           2300         211           2300         211           2300         211           2300         211           2300         211           2300         211           1477         230           2300         2300           154         207           110         154           2300         214</td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>2</td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	m         r <thr< th="">         r         r         r</thr<>	C         L           v         j           2300         211           2300         211           2300         211           2300         211           2300         211           2300         211           2300         211           1477         230           2300         2300           154         207           110         154           2300         214	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2
50 5 a 5 b 5 d 5 d 6 e 6 g 6 h 7 j 6 K 	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9         0         F         E         E         E         E         I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>	j 286 260 264 289 267 184 289 289 289 137 190 257 137 432 289 260 289	8         1         2         3         3         3         3         3         3         2         8         3         11         2         8         3         11         3         11         3         11         3         11         3         11         3         11         3         11         3         11         3         11         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         2         8         3         11         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>E         F</td> <td>5 3 5 3 9 2 9 2 8 3 2 2 2 2 3 2 8 3 2 8 3 2 2 2 2 6 1 1 4 8 3 5 6 1 1 4 2 2 2 2 2 2 9 2 2 8 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Z           518           292           321           3221           321           321           321           321           321           321           321           321           321           321           321           321           321           322           323           321           322           323           321</td> <td>20 171 171 171 171 171 171 171 17</td> <td>a b c d e f g h i j k k l m n o P q</td> <td>m         m           a         c         d         e         g         o         c           254         230         c<td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>m         r         <thr< th="">         r         r         r</thr<></td><td>P         S           v         J           v         230           v         207           v         211           v         230           v         154           v         207           v         345           v         230           v         214           v         207           v         230</td><td><math display="block">\begin{bmatrix} L &amp; 0 &amp; 0 &amp; 0 \\ 0 &amp; 1 &amp; 0 &amp; 0 \\ 0 &amp; 0 &amp; 0 &amp; 0 \\ 0 &amp; 0 &amp; 0 &amp; 0</math></td><td></td></td>	E         F	5 3 5 3 9 2 9 2 8 3 2 2 2 2 3 2 8 3 2 8 3 2 2 2 2 6 1 1 4 8 3 5 6 1 1 4 2 2 2 2 2 2 9 2 2 8 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Z           518           292           321           3221           321           321           321           321           321           321           321           321           321           321           321           321           321           322           323           321           322           323           321	20 171 171 171 171 171 171 171 17	a b c d e f g h i j k k l m n o P q	m         m           a         c         d         e         g         o         c           254         230         c <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>m         r         <thr< th="">         r         r         r</thr<></td> <td>P         S           v         J           v         230           v         207           v         211           v         230           v         154           v         207           v         345           v         230           v         214           v         207           v         230</td> <td><math display="block">\begin{bmatrix} L &amp; 0 &amp; 0 &amp; 0 \\ 0 &amp; 1 &amp; 0 &amp; 0 \\ 0 &amp; 0 &amp; 0 &amp; 0 \\ 0 &amp; 0 &amp; 0 &amp; 0</math></td> <td></td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	m         r <thr< th="">         r         r         r</thr<>	P         S           v         J           v         230           v         207           v         211           v         230           v         154           v         207           v         345           v         230           v         214           v         207           v         230	$\begin{bmatrix} L & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0$	
50 a b c d e f f g h i j k l m n o p q r	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9         0         F         E           r         u         f         w           311         286         314           289         210         314           314         162         215           283         162         457           314         289         286           314         314         314           215         283         162           289         286         314           289         286         314           289         286         314	j 286 260 264 289 267 184 289 289 137 190 257 137 432 289 263 263 263 263 269 187	8         1         2           s         t         v         308           283         286         311           289         207         311           311         159         212           280         159         454           311         286         283           280         159         454           311         286         283           311         286         311           286         283         311           206         206         311	P         P	5 3 5 3 9 2 9 2 8 3 2 2 2 2 2 2 3 2 8 3 2 2 2 2 2 2 8 3 5 1 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 2 3 2 2 2 2	Z           318           395           321           3321           3321           369           321           321           321           321           321           321           321           321           321           322           329           69           464           321           325           3221           325           321           321           321           321           321           321           321           321           321           321	20 171 171 171 171 171 171 171 17	a b c d e f f f h i j K l m n o P q r	m         m         m           a         c         d         e         g         o         c           254         230         234         254         254         254         254         134         178         230         134         369         254         254         237         230         134         369         254         237         230         254         237         230         254         237         230         254         237         230         254         237         230         254         237         230         254         237         230         254         173         230         254         173         254         173         174         174         175         174         175         175         175         175         175         175         175	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	m         r <thr< th="">         r         <thr>          &lt;</thr></thr<>	2         5           v         j           v         230           v         211           v         110           v         214           v         214           v         207           v         214           v         207           v         214           v         207           v         2150	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
50 a b c d e f g h i i j k l m n o P q r s	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c} \underline{9} & \underline{7} & \underline{7} & \underline{7} & \underline{7} & \underline{7} & \underline{5} & \underline{5} & \underline{9} & \underline{7} \\ \hline \underline{0} & \underline{h} & \underline{1} & \underline{k} & \underline{1} & \underline{m} & \underline{n} & \underline{p} \\ \hline \underline{0} & \underline{1} & \underline{k} & \underline{1} & \underline{m} & \underline{n} & \underline{p} \\ \hline \underline{3} & \underline{3} & \underline{3} & \underline{3} & \underline{3} \\ \hline 3 & \underline{3} & \underline{3} & \underline{3} & \underline{3} \\ \hline 3 & \underline{3} & \underline{3} & \underline{3} & \underline{3} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{6} \\ \hline 3 & \underline{3} & \underline{4} & \underline{5} \\ \hline 3 & \underline{3} & \underline{4} & \underline{5} \\ \hline 3 & \underline{3} & \underline{5} \\ \hline 3 & \underline{3} & \underline{5} \\ \hline 3 & \underline{3} & \underline{5} \\ \hline \end{array}$	9         0         E         E           r         u         f         w         311           286         314         289           210         314         162           314         162         215           283         162         314           162         215         283           182         314         314           213         283         314	Image: Constraint of the second sec	8         1         2           s         t         v         v           308         286         311         289           281         311         289         283           212         280         159         454           311         286         283         311           280         159         454         311           286         283         311         286           283         311         286         283           311         286         283         311	E         B           y         x           311         28           28         311           21         311           311         311           311         311           311         311           311         311           311         311           311         311           311         311           311         28           311         28           311         28	5 3 5 3 9 2 2 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a b c d e f g h i j K - m n o P q r r s t	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c} \underline{ \phi} & \underline{ \phi} \\ \hline \underline{ b} & \underline{ h} & \underline{ i} & \underline{ k} & \underline{ i} & \underline{ m} & \underline{ n} & \underline{ p} \\ \hline & & 343 \\ \hline & 318 \\ \hline & 318 \\ \hline & 318 \\ \hline & 346 \\ \hline & 321 \\ \hline & 242 \\ \hline & 346 \\ \hline & 346 \\ \hline & 194 \\ \hline & 247 \\ \hline & 315 \\ \hline & 194 \\ \hline & 489 \\ \hline & 346 \\ \hline & 321 \\ \hline & 194 \\ \hline & 489 \\ \hline & 346 \\ \hline & 321 \\ \hline & 318 \\ \hline & 346 \\ \hline & 321 \\ \hline & 318 \\ \hline & 346 \\ \hline & 321 \\ \hline & 318 \\ \hline & 346 \\ \hline & 321 \\ \hline & 318 \\ \hline & 346 \\ \hline & 321 \\ \hline & 318 \\ \hline & 315 \\ \hline & 273 \\ \hline \end{array}$	9         0         F         E           r         u         f         w           311         286         286           314         289         210           314         314         162           215         283         162           457         314         289           215         283         314           289         314         289           314         314         289           215         283         314           289         314         289           286         314         289           286         314         283           283         283         283           283         284         241	Image: Constraint of the system           j           286           260           264           289           267           137           137           137           137           289           257           137           289           263           260           289           187           263           260           289           187           263           260           289           187           263           263           263           263           263           263           263           263           263           257           216	8         1         2         3         3           s         t         v         v         v         3         0.8         2.83         3         1.1         2.83         3         1.1         1.59         2         2.12         2.80         1.59         2.12         2.80         1.59         2.159         4.54         3.11         2.86         3.11         2.86         3.11         2.86         3.11         3.11         2.86         3.11         2.86         3.11         3.11         2.86         3.11         2.86         3.11         2.86         3.11         3.11         2.86         2.83         3.11         2.06         2.83         3.11         2.06         2.80         2.80         2.80         2.80         2.83         3.11         2.06         2.80         2.	E         B         S         Z           y         x         311         288         311           288         311         311         311           211         311         311         311           311         311         311         311           311         311         311         311           288         311         311         311           216         311         288         311           217         311         311         311           288         311         311         311           218         311         311         311           288         311         311         311           288         311         311         311           218         311         311         311	5 3 5 3 9 2 2 8 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Z           318           2925           321           328           321           16           321           322           889           69           321           1669           3221           198           69           321           322           889           448	20 171 171 171 171 171 171 171 17	a b c d e f g h i j K l m n o p P q r r s t	m         m           a         c         d         e         g         o         c           254         230         c <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>m         r         <thr< th="">         r         <thr< th=""> <thr< th=""></thr<></thr<></thr<></td> <td>P         IS           V         J           2300         2010           2300         2111           2300         2111           2300         2111           2300         2111           2300         2111           12300         2300           1100         2300           1154         2077           3455         2300           2110         2300           2301         1500           2300         1500           1500         174</td> <td><math display="block">\begin{bmatrix} L &amp; 0 &amp; 0 &amp; 0 \\ 0 &amp; 1 &amp; 0 &amp; 0 \\ 0 &amp; 0 &amp; 0 &amp; 0 \\ 0 &amp; 0 &amp; 0 &amp; 0</math></td> <td></td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	m         r <thr< th="">         r         <thr< th=""> <thr< th=""></thr<></thr<></thr<>	P         IS           V         J           2300         2010           2300         2111           2300         2111           2300         2111           2300         2111           2300         2111           12300         2300           1100         2300           1154         2077           3455         2300           2110         2300           2301         1500           2300         1500           1500         174	$\begin{bmatrix} L & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0$	
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33	0	280			270			100	270	312	270
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280	0			35	50			30	57	35	50
100	1			18	37			18	37	1.	70
270	2			34	10			3!	57	34	40
270	3			34	10			3!	57	34	40
312	4			- 38	32			38	32	3	35
270	5			34	10			3!	57		40
270	6			34				3		34	
270	7			34				34			93
270	8			34	10			3!	57	34	40
270	9			34	10			3!	57	34	40

2	265	mm	DΙ	GIT	† c	26	55	mm	DIC	ΓI	
26	5	224			216			80	216	249	216
		0	2	3	6	8	9	1	5	4	7
224	0			28	30	29	93	28	30		
80	1			14	19			14	19	13	36
216	2			2	72			28	35	2	72
216	3			2	72			28	35	2	72
249	4			30	)5			30	)5	20	58
216	5			2	72			28	35	2	72
216	6			2	72			28	35	2	72
216	7			2	72			2	72	2:	35
216	8			2	72			- 28	35	2	72
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2	200	mm	DΙ	GIT	. to	20	00	mm	DIC	ΓI				
20	0	168			162			60	162	187	162			
		0	2	3	6	8	9	1	5	4	7			
168	0		20	2	10									
60	1		112 112 10											
162	2			20	04			2	14	20	04			
162	3			20	04			2	14	20	D4			
187	4			22	29			22	29	2	01			
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162	6			20	04			2	14	20	24			
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NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS L OTHERWISE NOTED. SEE SHEETS 12 THF FOR CORRESPONDING ENGLISH UNITS.

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162	В		21	19						2	35				1	21	6	200	5	21	15	20	06	206	22
162	С		21	16						23	29					21	1	19	7		20	59		213	218
162	D		21	15						2	30				1	21	3	190	5		20	)9		213	216
149	Е		20							2	16					19	8	18	1		19	96		200	205
149	F		17	75						20	00					18	1	17	5		1	78		179	18
162	G		21								29				1	21	1	19	7			29		213	218
162	Н		23	32							45				1	22	9	210	5			27		230	233
40	Ι			10							23					10	7	94			1 (	25		108	11
152	J		22								25				1	21	7	20				13		216	222
165	K		20								26					20		18				22		205	209
149	L			90							10					18		17				36		189	193
187	М		25								70					25		24				52		255	258
162	Ν		23								45					22		210				27		230	233
168	0		22								36					21		20				15		219	222
162	Ρ		2								19				-	20	-	18				23		206	209
168	Q		22								36					21	-	20				15		219	222
162	R		21								30				-	21	-	190				29		213	216
162	S		20							_	27					20		19				25		208	21
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213	W		26							2						25		24		25		24		251	262
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	METRIC UNITS	
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	UPPER CASE & LOWER CA SERIES E MODIFIED (MET	
UNLESS HROUGH 17	RECOMMENDED MAY 25, 2007 All Chief, TRAFFIC ENGINEERING AND OPERATIONS DIVISION MAY 25, 2007 <i>m.C.Atul</i> CHIEF HIGHWAY ENGINEER	sht. 3 of 18 TC-8700C

## METDIC UNITE

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b         174         192         171         157         170           c         176         193         173         159         172           d         192         208         189         174         187           e         177         194         174         160         173           f         127         145         124         110         123           g         192         208         189         174         187           h         192         208         189         174         187	×	Z
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d         192         208         189         174         187           e         177         194         174         160         173           f         127         145         124         110         123           g         192         208         189         174         187           h         192         208         189         174         187	173	176
e         177         194         174         160         173           f         127         145         124         110         123           g         192         208         189         174         187           h         192         208         189         174         187	175	178
f         127         145         124         110         123           g         192         208         189         174         187           h         192         208         189         174         187	191	194
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n         192         208         189         174         187           o         178         196         175         161         174	191 177	194
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r 129 146 128 112 125	128	131
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305	Y		326					36							36			
243	Ζ		285					30	16						30	16		

GI	T to	5 4!	50	mm	DIC	βIT						
	365			135	365	421	365					30
3	6	8	9	1	5	4	7					
4	73			4	95	4	73					252
2	52			2	52	23	30					90
4	60			4	82	46	60					243
4	60			4	82	46	60					243
5	16			5	16	45	53					281
- 4	60			4	82	46	50					243
4	60			4	82	46	60					243
4	60			4	60	39	97					243
	60			4	82	46	50					243
4	60			4	82	46	50					243

210	V		231					222					
319	W		340				1.1	382					
262	Х		304					325					
305	Y		326					368					
243	Ζ		285					306					
3	00	mm	DΙ	GIT	† C	30	0C	mm	DIG	ΙT			
30	0	252			243			90	243	281	243		
	300         N												
252	0			31	5			33	30	3	15		
90	1			16	58			1 (	68	1 5	53		
243	2			30	)6			3	21	- 30	06		
243	3			30				3	21	- 30	D6		
281	4			34	14			3.	44	- 30	02		
243	5			- 30	)6			3		- 30	06		
243	6			30	)6			3	21	- 30	D6		
243	7			30	)6			- 30	26	26	54		
243	8			30					21		06		
243	9			30	)6			3	21	- 30	)6		

25	50	mm	UP	PE	٦	CAS	SE	to	)	25	50	I	mm	I	U	Pf	РΕ	R	CA	١SF
25	0	254		266	-	202	186	202	44		186	234		_	_	202	1-		210	202
		AJ		VW	Y	ΒD	EF	Н	I	Κ	L	М	Ν	Ρ	R	U	С	G	0	
254	Α		27	'1						306									- 30	)6
202	В		25	4					2	268	3								25	54
202	С		23	7					2	254	4								25	54
202	D		25 22	4					2	268	3								25	54
186	E		22	1					2	238	3								23	38
186			22	1					2	238	3								23	38
202	G		25	4						268									25	
202	Н		25						- 2	268	3								26	58
44	I		96							110							-		11	
190	J		24							256							1			6
206	K		24		_					258	3						-		25	8
186	L		20	13	_					238							-		23	
234	М		28		_					300	<u>)</u>						-		30	00
202	N		25	4	_				4	268 276	3						+		26 26	58
210	0		26	2	_					210	<u> </u>						+		26	2
202	P		25 26	4						268							+		25 26	24
210 202	Q R		26	2	_					276							+		26	- 4
202	к S		25 25	4					-	268 268	5						+		25	- 4
186	T		20		_					238							╀		23	
202			25		-					268							+		26	
230	V		24	7	-				-	282	<u> </u>						+		20	32
266	Ŵ		28		-					<u>202</u> 318							+		3	18
218	X		25	3	-					270							+		21	
254	Ŷ		27	1	-					306							+			06
202	Z		23		-					254							+		25	
					-				_	-										

2	50	mm	DI	GIT	† c	25	50	mm	DIC	ΓI	
25	0	210			202			75	202	234	202
		0	2	3	6	8	9	1	5	4	7
210	0			76	20	62					
75	1			41	12	27					
202	2			68	25	54					
202	3			25	54			20	68	25	54
234	4			28	36			28	36	2	51
202	5			25				20	68	25	
202	6			25				20			54
202	7			25	54			25	54	2	19
202	8			25					68		54
202	9			25	54			20	68	25	54

15	50		_	_	_	_	CAS		10	-			1	1011	U		PER	_		1 T	=	
15	0	152 114	112	138	160	152	121	112	121	26	124	112	-4			121			126	121	131	121
		ΑJ	Т	۷	W	Y	ΒD	EF	Н	Ι	К	LN	Л	NF	P R	U	СС	; (	0 6	ιs	Х	Ζ
152	A			62						1	18	4							19			
121	В			53							160								18			
121	С			42							15								15			
121	D			53							160								15			
112	Е			33							14								14			
112	F			33							14								14			
121	G			53							160								15			
121	Н			53							160								16			
26	I			8							65								6			
114	J			46							15								15			_
124	ĸ			45							150								15			_
112	L			22							14								14			_
140 121	M			72 53		_					179		_						17			_
	0					_																_
126 121	P			58 53		_					16								15			_
126	Q			53 58		_					16		-						15			_
121	R			53		-					160								15			-
121	S			53		-					160								15			_
112	T			22							14		_						14			
121	u.			53							160								16			
138	v			48							170								17			
160	Ŵ			70							192		_					_	19			
131	X			52							16								16			
152	Y			62							18								18			
121	Ż			42							15		-					-	15			

1	50	mm	DΙ	GIT	†c	) 15	50	mm	DIG	βIT					
15	0	126			121			45	121	140	121				
		0	2	3	6	8	9	1	5	4	7				
126	0			15	58			16	55	15	58				
45	1		84 84 77 153 160 153												
121	2	153 160 153													
121	3			15	53			16	50	15	53				
140	4			1.	72					15	50				
121	5										53				
121	6										53				
121	7										31				
121	8										53				
121	9			15	53			16	50	15	53				
	126 45 121 121 140 121 121 121	126         0           45         1           121         2           121         3           140         4           121         5           121         6           121         7           121         7           121         8	150         92 - 0           126         0           45         1           121         2           121         3           140         4           121         5           121         6           121         7           121         7           121         8	150         9/2           126         0         2           121         2         1           121         2         1           140         4         1           121         5         1           121         5         1           121         6         1           121         8         1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				

10	00	mm	ı U	PP	ΈF	2	CAS	SE	† (	o 1	00	)	mm	U	IPF	PΕ	R	СА	SI	Ε
10	0	102	75	92	106	102	81	75	81	18 83	75	94			8			84	81	. r
		А	JT	<u> </u>	W	Y	ΒD	ΕF	Н	ΙK	_	М	NF	R	2 U	С	G	0 Q	-	
102	Α		1	09						12	3							12	3	
81	В			02						10	7							10		_
81	С			95						10								10		
81	D			02						10	7							10		
75	Е			39						96 96	5							96		
75	F			39						96	5							96		
81	G		1	02						10								10	2	
81	Н		1	02						10								10	7	
18	Ι		3	39						44								44		
76	J			97		_				10								10		
83	К			97		_				10	4							10		
75	L		8	32						96	5							96		
94	М			15		_				12	0							12	0	
81	Ν		1	02		_				10								10		
84	0		1	05						11	0							10	5	
81	Ρ			02		_				10								10		
84	Q			05		_				11								10		
81	R		1	02						10	7							10		
81	S		1	02		_				10								10		
75	Т			32		_				96								96		
81	U			02		_				10								10	7	
92	۷			99		_				11	3							11	3	
106	W			13						12								12		
87	Х			01		_				10								10		
102	Y			09		_				12	3							12	3	
81	Ζ		9	95						10	2							10	2	



ALL DIMENSIONS ARE IN MILLIMETERS OTHERWISE NOTED. SEE SHEETS 12 TH FOR CORRESPONDING ENGLISH UNITS.

			200	mm	DIGIT	to 2	00	mm	DIC	S I T					
		2	00	168		162		60	162	187	162				
				0		6 8	9	1	5	4	7				
		168 60	1		210	2		1	20 12	10					
		162	2 3		204 204				14 14	20					
		18	' 4 ? 5		229 204				29 14	20					
		162	2 6		204	1		2	14 04	20	)4				
		162	2 8		204	1		2	14	20	)4				
		162	2 9		204	ł		2	14	20	)4				
E 8 7	100	0 84		3		9 1	<b>6</b> 5	₽6 4	τω 7 )5						
	30 81	1		56 102		10	6 07	5	)2						
	81 94	3		102 115	i	1	07 15	1 (							
	81 81	5		102			07 07	10							
	81 81	7 8		102		10	02 07	8							
		9		102			27		)2						
						TR	τC	. 1	ти	т¬	-				
						. 1 .	IC	. I	ли	11	S				
		C	DEF	PAR	IWEA TMEN f highw	JT (	ЭF	TF	RAI	NSI	POF	ХTА	VA TIC NEER	N	A
					CD	ACI		· _	าม		тς				
	D	IR	ECT	Ā	PPLI							kΝ	IUM	ER	ALS
						UPP									
					SER		E	(	ME	TF	R I (	C)			
UNLES			NDED	CB	25,200	07 REC	омм		D M		25,2	2007	SHT	. 4 (	DF 18
					NEERING A		EF HI						TC	-87	000
													•		

20	00 1	mm l	JPP	ER	CAS	SE	†0	20	С	mm	UP	PER	СА	SE	
20	0	203 152	149 184	213 203	162	149	162	165	187		162		168	162	175 162
		ΑJ	τV	WY	ΒD	EF	Н	IKL	. М	NF	R L	I C G	0 Q	S	ΧZ
203	Α		217					245					24	5	
162	В		204					214					20	4	
162	С		190					204					20		
162	D		204					214					20		
149	E		177					191					19		
149	F		177					191					19		
162	G		204					214					20		
162	Η		204					214					21	4	
35	I		77					87					87		
152	J		194					204					20		
165	К		193					207					20		
149	L		163					191					19		
187	М		229					239					23		
162	Ν		204					214					21		
168	0		210					220					21		
162	Ρ		204					214					20		
168	g		210					220					21		
162	R		204					214					20		
162	S		204					214					20		
149	Ť		163					191					19		
162	U		204					214					21		
184	٧		198					226					22		
213	W		227					255					25		
175	Х		203					217					21		
203	Y		217					245					24		
162	Ζ		190	_		_		204					20	4	

45	50	mm	ιU	PP	ER	С	A	SE	10	2	45	50	)	nm	ι	JPI	۶E	R	С	AS	SE	
45	0	383	286 279	342	401	305	202	279	308	72	315	279	353			308			002	776		308
		Α	JT	V	W	ΥB	D	EF	н	Ι	К	L	М	NF		RU	С	G	0	Q	S	ΧZ
383	Α		4	12						2	169	Э					T		4	165	)	
308	В			94						2	116	ŝ								<u>i</u> 94		
308	С			64							394									594		
308	D			94							116									394		
279	E		335 335								65									65		
279	F		335 394								65									65		
308	G										116									594		
308	Н		394							116									116			
72	Ι		158			_					80									80		
286	J			72		_					394									94		
315	K			71		_					10									10		
279	L			08							65									65		
353	M			39		_					16									16		
308	N			94		_					116						+			110		
322	0			08		_					30						-			108		
308 322	P			94		_					116						+			394		
308	Q R			08 94		-					30						+			108 594		
308	S			94 94		-					116						+			<u>9</u> 2		
279	T			94 08		-					365						+			65		
308	U			<u>08</u> 94		+					116						+			116		
342	V					-					128						+			128		
401	Ŵ	371 430			+					18						+			187			
308	X	364			+					394						+			394			
385	Ŷ	<u> </u>			+					17						+			17			
308	Ż		414 364								394						+			394		

30	00	mm UPPER	CASE to 300 mm UPP	ER CASE
30	0	A 255 F 190 A 2190 A 229 A 267 A 257	B         D         E         H         I         K         C         05         C         50	Z X 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
255	A	274	312	312
205	В	262	276	262
205	С	243	262	262
205	D	262	276	262
186	Е	224	243	243
186	F	224	243	243
205	G	262	276	262
205	Н	262	276	276
48	Ι	105	119	119
190	J	247	261	261
210	Κ	248	267	267
186	L	205	243	243
236	М	293	307	307
205	Ν	262	276	276
214	0	271	285	271
205	Ρ	262	276	262
214	Q	271	285	271
205	R	262	276	262
205	S	262	276	262
186	T	205	243	243
205	U	262	276	276
229	V	248	286	286
267	W	286	324	324
205	X	243	262	262
257	Y	276	314	314
205	Z	243	262	262

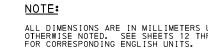
4	50	mm	DΙ	GIT	†c	o 4!	50	mm	DIC	ΓI		
45	0	322			308			110	308	335	308	
		0	2	5	4	7						
322	0		408 430 408									
110	1		218 218 196									
308	2			39	94			4	16	39	94	
308	3			- 39	94			4	16	39	94	
335	4			42	21			42	21	36	54	
308	5			39	94			4	16	39	94	
308	6			- 39	94			4	16	39	94	
308	7			39	94			39	94	33	37	
308	8			39	94			4	16	39	94	
308	9			39	94			4	16	39	94	

3	00	mm	DΙ	GIT	† † ¢	30	00	mm	DIG	ΓI	
30	0	214			205			74	205	224	205
		0	2	3	6	8	9	1	5	4	7
214	0			2	71			28	35	2	71
74	1			1.	45			14	45	1	31
205	2			20	62			2	76	20	62
205	3			20	62			2	76		62
224	4			2	B 1			28	31	24	43
205	5			20	62			2	76	20	62
205	6			20	62			2	76	20	62
205	7			20	62			26	52	22	24
205	8				62				76	20	62
205	9			20	62			2	76	20	62

25	50	mm UPPER	CASE to 250 mm UPP	ER CASE
25	0	A 212 A 155 A 190 A 214 A 214	аналарии и предакти п Предакти предакти п Предакти предакти п Предакти предакти п Предакти предакти пред	62 121 C C O Q S X Z
212	Α	228	260	260
171	B	219	230	219
171	C	203	219	219
171	D	219	230	219
155	Ē	187	203	203
155	F	187	203	203
171	G	219	230	219
171	н	219	230	230
40	I	88	99	99
159	J	207	218	218
175	Κ	207	223	223
155	L	171	203	203
196	М	244	255	255
171	Ν	219	230	230
179	0	227	238	227
171	Ρ	219	230	219
179	Q	227	238	227
171	R	219	230	219
171	S	219	230	219
155	Ť	171	203	203
171	U	219	230	230
190	V	206	238	238
222	W	238	270	270
171	X	203	219	219
214	Y Z	230	262	262
171	۷	203	219	219

2	50	mm	DI	GIT	†c	25	50	mm	DIG	ΓI	
25	0	179			171			61	171	186	171
		0	2	3	6	8	9	1	5	4	7
179	0			22	27			23	38	22	27
61	1			12	20			12	20	1 (	)9
171	2			2	19			23	30	2	19
171	3			2	19			23	30	2	19
186	4			23	34			2	34	20	02
171	5			2	19			23	30	2	19
171	6			2	19			23	30	2	19
171	7			2	19			2	19	18	37
171	8			2				23			19
171	9			2	19			23	30	2	19

10	00	mm	٦	UPF	Έf	R	CAS	SE	† c	)	1 (	00		mn	٦	UF	PP	È	R	С	4SE	-
10	0	85	64	62 76	89	86	68	62	68	16	70	62	78			00	20			71		
		Α	J	τv	W	Y	ΒD	ΕF	н	I	Κ	L	М	Ν	Ρ	R	U	С	G	0	a s	]
85	Α			91						1	0	4								1	04	
68	В			87							92										37	
68	С			81							87										37	
68	D			87							92									8	37	
62	ш			75							81										31	
62	F			75							81										31	
68	G			87							92										37	
68	Н			87							92										12	
16	Ι			35							40										0	
64	J			83							88										8	
70	K			83							89										19	
62	L			68							81										31	
78	М			97						1	0	2									02	
68	N			87							92 95									ç	12	
71	0			90																	0	
68	Ρ			87							92										37	
71	Q			90							95										0	
68	R			87							92										37	
68	S			87							92										37	
62	T			68							81										31	
68	U			87							92										12	
76	۷			82							95										95	
89	W			95							0										80	
68	Х			81							87										37	
86	Y	1		92							0										05	
68	Ζ			81							87	·								8	37	



	15	i0	mm	וו	UF	P	Εf	7	C,	15	δE	10	)	15	50	۱	nn	ו	UF	P	ΈF	2	СA	١S	Е	
	15	0	V 128	L 95	<u>н</u> 93	< 114	€ 133	≺ 128	B 102	D	E F	± 102	1 24		on .	M 118	N	P	102 R	: U	C	3	<u>107</u>	1 5	x 102	_
	128	Α			13	38	_						1	156	;								15	6		_
	102	В				30							1	138	3								13			
	102	С			12	21							1	130	)								13	0		
	102	D			13	30								138									13	0		
	93	Е				12								121									12			
	93	F				12								121									12			
[	102	G				30								138									13			
[	102	Н				30								138	3								13			
	24	Ι			5									60									6			
	95	J				23								131									13			
	105	Κ				24							1	133	5								13			
	93	L				23								121									12			
	118	М			14	46							1	154	1								15	4		
	102	Ν				30								138									13			
	107	0				35								143									13			
	102	Ρ				30							1	138	3								13			_
	107	Q				35								143									13			
	102	R			13								1	138	3								13			
	102	S	-			30								138						_			13			_
	93	T				23		_						121									12			
	102	U				30		_						138									13			_
	114	V	∥			24		_						142									14			_
	133	W				43		_						161									16			_
	102	X				21		_						130									13			_
	128	Y				38								156									15			_
ļ	102	Ζ			12	21							1	130	)								13	υ		

	ſ	1	50	mm	DΙ	GIT	†c	b 15	50 1	mm	DIG	ΓI	
		15	0	107			102			37	102	112	102
Ζ				0	2	3	6	8	9	1	5	4	7
	ſ	107	0			1.	35			14	13	13	35
	ſ	37	1			7	3			7	3	6	5
	[	102	2			13	30			13	38	13	30
		102	З			13	30			13	38	13	30
	[	112	4			14	10			14	10	12	22
	[	102	5			13	30			13	38	13	30
		102	9				30				38	13	30
	[	102	7			13	30			13	30	1	12
	[	102	8			13	30				38	13	30
	[	102	9			13	30			13	38	13	30

		Г									
E		L	20	00	mm UPPER	CASE †	o 200 m	m UPP	ER CA	SE	
171					170 124 152 178 171	37 24 37	32 32 124 157	37	43	37	
			20	0					-	-	
XZ					AJTVWY	BDEFH	I I K L M N	I P R U	CGOQ	SXZ	
			170	Α	183		208		20		
		-	137	B	175		185		17		
		H	<u>137</u> 137	C D	162 175		<u>175</u> 185		<u>17</u> 17		
		ŀ	124	Ē	149		162		16		
		F	124	F	149		162		16		
			137	G	175		185		17		
		-	137	H	175		185		18		
		ŀ	32 127	I J	70 165		80 175		<u> </u>		
		F	140	ĸ	165		178		17		
		L	124	L	137		162		16		
		⊢	157 137	M	195 175		205 185		20 18		
		ŀ	143	N O	181		191		18		
		E	137	P	175		185		17	5	
			143	Q	181		191		18		
		F	137 137	RS	175 175		185 185		<u>17</u> 17		
		F	124	Ť	137		162		16		
			137	U	175		185		18	5	
		F	152	V	165		190		19		
		ŀ	178 137	W X	191 162		216 175		21		
		F	171	Ŷ	184		209		20		
			137	Z	162		175		17		
		г							-		
			2	200	mm DIGIT	to 20	0 mm DI	GIT			
					143	137	50 137	149	;		
			20	0			ີ ນີ		-		
					0 2 3	6 8	9 1 5	4 7			
		F	143	0	18		191	181			
		F	50 137	1	9		98	88	-		
		F	137	3	17		185	175	-		
		E	149	4	18		187	162			
		Ľ	137	5	17		185	175			
		H	137 137	6	17		185	175	_		
		F	137	8	17		185	175	-		
			137	9	17		185	175			
]		100				0 mm D		1			
E		100	mm	DI	GIT to 1C	0 mm D	IGIT	]			
			1	DI				]			
68	10	100 <b>00</b>	71		68	25	68 75 68				
		00	1	D I 2	89 3 6 8	9 1	89 <u>5</u> 4 7				
68	71	00	71		89 3 6 8 90	9 1 95	89 L2 89 5 4 7 90				
68	71	<b>DO</b>	71		80 3 6 8 90 49	9 1 95 49	Signature         Signature         889         Signature         890         Signature         8	-			
68	71	00	71		89 3 6 8 90	9 1 95	89 L2 89 5 4 7 90				
68	71 25 68 68 75	0 1 2 3 4	71		00         8           90         49           87         87           94         94	9 1 95 49 92 92 92 94	∞         ∴         ∞	-			
68	71 25 68 68 75 68	0 1 2 3 4 5	71		80           3         6         8           90         49           87         87           94         87	S           9         1           95         49           92         92           92         92           92         92           92         92           92         92           92         92	№         №				
68	71 25 68 68 75 68 68	<b>DO</b> 1 2 3 4 5 6	71		80           3         6         8           90         49           87         87           94         87           87         87           87         87	9 1 9 1 99 2 992 92 92 92 92 92 92 92	00         12         00         00           5         4         7         7           90         44         87           87         81         87           87         87         81				
68	71 25 68 68 75 68 68 68 68 68	0 1 2 3 4 5 6 7 8	71		80           3         6         8           90         49         87           87         94         87           87         87         87           87         87         87           87         87         87           87         87         87	9 1 9 1 95 49 92 92 92 92 92 92 92 87 92 87 92	89         10         89           5         4         7           90         44           87           81           87           81           87           74           87           87				
68	71 25 68 68 75 68 68 68 68	<b>DO</b> 1 2 3 4 5 6 7	71		00         49           90         49           87         94           87         87           94         87           87         87           87         87	9 1 9 1 9 9 92 92 92 92 92 92 92 92 92 87	∞         ∴         ∞				
68	71 25 68 68 75 68 68 68 68 68	0 1 2 3 4 5 6 7 8	71		80           3         6         8           90         49         87           87         94         87           87         87         87           87         87         87           87         87         87           87         87         87	9 1 9 1 95 49 92 92 92 92 92 92 92 87 92 87 92	89         10         89           5         4         7           90         44           87           81           87           81           87           74           87           87				
68	71 25 68 68 75 68 68 68 68 68	0 1 2 3 4 5 6 7 8	71		80           3         6         8           90         49         87           87         94         87           87         87         87           87         87         87           87         87         87           87         87         87	9 1 9 1 95 49 92 92 92 92 92 92 92 87 92 87 92	89         10         89           5         4         7           90         44           87           81           87           81           87           74           87           87				
68	71 25 68 68 75 68 68 68 68 68	0 1 2 3 4 5 6 7 8	71		00         8           90         49           87         87           87         87           87         87           87         87           87         87           87         87           87         87           87         87           87         87	9         1           9         1           9         95           49         92           92         92           94         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92	80         90         80         90           5         4         7           90         44           87         87           87         87           87         87           87         87           87         87           87         87           87         87				
68	71 25 68 68 75 68 68 68 68 68	0 1 2 3 4 5 6 7 8	71		00         8           90         49           87         87           87         87           87         87           87         87           87         87           87         87           87         87           87         87           87         87	9         1           9         1           9         95           49         92           92         92           94         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92	89         10         89           5         4         7           90         44           87           81           87           81           87           74           87           87	IITS			
68	71 25 68 68 75 68 68 68 68 68	0 1 2 3 4 5 6 7 8	71		00         8           90         49           87         87           87         87           87         87           87         87           87         87           87         87           87         87           87         87	9         1           9         1           9         95           49         92           92         92           94         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92           92         92	80         90         80         90           5         4         7           90         44           87         87           87         87           87         87           87         87           87         87           87         87           87         87	IITS	5		
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 5 6 7 8 9	0 71	2	00       49       87       87       87       87       87       87       87       87       87       87       87       87       87       87       87	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 87 92 92	∞         ∞		-	VAN	
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 5 6 7 8 9	Ѓг о СО	2 	3       6       8         90       49         87       87         87       87         87       87         87       87         87       87         87       87         87       87         40       87         87       87	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         P         B         B         B         F         B         B         F         B         B         F         B         F         B	PENN	ISYL		
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 5 6 7 8 9	Ѓсо. ГСО.		3       6       8         90       49         87       87         87       87         87       87         87       87         87       87         87       87         87       87         40       87         87       87	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	PENN	ISYL DRTA	TION	J
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 5 6 7 8 9	Ѓсо. ГСО.		3       6       8         90       49         87       87         87       87         87       87         87       87         87       87         87       87         87       87         40       87         87       87	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	PENN	ISYL DRTA	TION	J
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 5 6 7 8 9	Ѓсо. ГСО.		3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       94       95         87       94       95         87       94       95         87       94       95         87       94       96         87       94       96         87       94       96         94       95       96         95       96       96         94       96       96         95       96       96         96       97       96	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	10         10 <th10< th="">         10         10         10<!--</td--><td>PENN NSPC traffi</td><td>ISYL DRTA c engi</td><td>TION</td><td>J</td></th10<>	PENN NSPC traffi	ISYL DRTA c engi	TION	J
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 5 6 7 8 9	Ѓсо. ГСО.		3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       94       95         87       94       95         87       94       95         87       94       95         87       94       96         87       94       96         87       94       96         94       95       96         95       96       96         94       96       96         95       96       96         96       97       96	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	PENN NSPC traffi	ISYL DRTA c engi	TION	J
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 4 5 6 7 7 8 9 9			3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         400NWEA       ARTMEA       AU OF HIGH         SF       SF       SF	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         D         B         B         C         B         C         C         D         C         D         C         D         C         D         C         D	PENN NSPC TRAFFI	ISYL DRTA <sup>c engi</sup> S	TION	N IG
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 4 5 6 7 7 8 9 9			3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       94       95         87       94       95         87       94       95         87       94       95         87       94       96         87       94       96         87       94       96         94       95       96         95       96       96         94       96       96         95       96       96         96       97       96	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         D         B         B         C         B         C         C         D         C         D         C         D         C         D         C         D	PENN NSPC TRAFFI	ISYL DRTA <sup>c engi</sup> S	TION	N IG
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 4 5 6 7 7 8 9 9			3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         400NWEA       ARTMEA       AU OF HIGH         SF       SF       SF	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         D         B         B         C         B         C         C         D         C         D         C         D         C         D         C         D	PENN NSPC TRAFFI	ISYL DRTA <sup>c engi</sup> S	TION	N IG
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 4 5 6 7 7 8 9 9			3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         400NWEA       ARTMEA       AU OF HIGH         SF       SF       SF	9 1 9 2 9 2 92 92 92 92 92 92 92 92 92 92 92 92 92	B         F         B           5         4         7           90         44           87         87           87         87           87         87           87         87           87         87           90         90           91         87           87         87           87         87           87         87           87         87           90         90           0F         P           F         TRA           ETY         AND           IG         CH           LETTE         100	ENN NSPC TRAFFI ART	ISYL DRTA <sup>c engi</sup> S	TION	N IG
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 4 5 6 7 7 8 9 9			3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         400NWEA       ARTMEA       AU OF HIGH         SF       SF       SF	9 1 9 2 9 2 92 92 92 92 92 92 92 92 92 92 92 92 92	B         D         B         B         C         B         C         C         D         C         D         C         D         C         D         C         D	ENN NSPC TRAFFI ART	ISYL DRTA <sup>c engi</sup> S	TION	N IG
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 4 5 6 7 7 8 9 9			3       6       8         90       49         87       87         94       94         94       94         94       94         95       94         95       94         95       94         96       94	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         D         B           5         4         7           90         44           87         87           87         87           87         87           6         74           87         87           87         87           87         87           87         87           87         87           87         87           87         87           90         90           0F         P           F         TRA           ETY AND         IG           IG         CH           LE         T           ER         CA	ZENN NSPO TRAFFI ART: ERS SE	ISYL DRTA c engi S & N	TION	N IG
68	71 25 68 68 75 68 68 68 68 68	DO 0 1 2 3 4 4 5 6 7 7 8 9 9			3       6       8         90       49         87       87         94       94         94       94         94       94         95       94         95       94         95       94         96       94	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         F         B           5         4         7           90         44           87         87           87         87           87         87           87         87           87         87           90         90           91         87           87         87           87         87           87         87           87         87           90         90           0F         P           F         TRA           ETY         AND           IG         CH           LETTE         100	ZENN NSPO TRAFFI ART: ERS SE	ISYL DRTA c engi S & N	TION	N IG
68	71 25 68 68 75 68 68 68 68 68	DO	CO I B RE	2 MN DEI CT	3       6       8         90       49         87       87         99       94         87       87         87       87         87       87         87       87         87       87         87       87	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         P         B           5         4         7           90         44           87         87           87         87           74         87           87         87           87         87           0F         P           F         TRA           ETY         AND           JG         CH           LETTE         R           C         M	ENN NSPC TRAFFI ART ERS SE SE ETR	ISYL DRTA C ENGI S & N	TION NEERIN	RALS
89   X  Z 	71 25 68 68 68 68 68 68 68 68 68	DO	CO I B RE		3       6       8         90       49         87       87         99       94         87       87         87       87         87       87         87       87         87       87         87       8	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	B         P         B           5         4         7           90         44           87         87           87         87           87         87           74         87           87         87	ENN NSPC TRAFFI ART ERS SE ETR	ISYL DRTA C ENGI S & N	TION NEERIN	N IG
89   X  Z 	71 25 68 68 68 68 68 68 68 68 68	DO	CO. B RE		3       6       8         90       49         87       87         88       87         99       94         94       94         94       94         94       94         87       87         87       87         87       87         88       88         94       94         95       9	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	8         90           44         7           90         44           87         87           90 <td< td=""><td>ENN NSPC TRAFFI ART ERS SE ETR MAY 25,</td><td>ISYL DRTA C ENGI S &amp; N</td><td>NEERIN</td><td>5 OF 18</td></td<>	ENN NSPC TRAFFI ART ERS SE ETR MAY 25,	ISYL DRTA C ENGI S & N	NEERIN	5 OF 18
68	71 25 68 68 68 68 68 68 68 68 68	DO			3       6       8         90       49         87       87         99       94         87       87         87       87         87       87         87       87         87       87         87       8	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	8         90           44         7           90         44           87         87           90 <td< td=""><td>ENN NSPC TRAFFI ART ERS SE ETR MAY 25,</td><td>ISYL DRTA C ENGI S &amp; N</td><td>NEERIN</td><td>RALS</td></td<>	ENN NSPC TRAFFI ART ERS SE ETR MAY 25,	ISYL DRTA C ENGI S & N	NEERIN	RALS
89   X  Z 	71 25 68 68 68 68 68 68 68 68 68	DO			3       6       8         90       49       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         87       87       87         AU OF HIGHY       SF       APPL         SER       SER       SER         MAY 25, 20         C Prove         Enclineering	9 1 9 1 92 92 92 92 92 92 92 92 92 92 92 92 92	8         90           44         7           90         44           87         87           90 <td< td=""><td>ENN NSPC TRAFFI ART ERS SE ETR MAY 25,</td><td>ISYL DRTA C ENGI S &amp; N</td><td>NEERIN</td><td>5 OF 18</td></td<>	ENN NSPC TRAFFI ART ERS SE ETR MAY 25,	ISYL DRTA C ENGI S & N	NEERIN	5 OF 18

45	50	mm	ı UF	PΡ	Ef	2	C,	45	Ε	10	5	45	50	)	mr	n	UF	P٢	ΡĒF	2	С	43	SE	2	
45	0	286	230	279	342	286	250	>	230	250	63	250	230	297			250	٦ C			263		250	268	250
		Α	JT	۷	W	Y	В	D	EF	Н	Ι	К	L	М	Ν	Ρ	R	U	C	G	0	Q	S	Х	Ζ
286	Α		3	12							3	36.	4								3	64	1		
250	В			28								341										28			
250	С			01								32										28			
250	D			28								341										28			
230	E			81								30										80			
230	F		281 328									30										90			
250	G		328									34(										28			
250	Н		328 328 141									340										46			
63	Ι											15										59			
230	J			80								320										26			
250	K			01		_						32										28			
230	L			56		_						30										80			
297	M			75		_						39										93			
250	N			28		_						340						_				46			
263 250	0 P			41		_						35										4			
263				28 41		_						340										28			
263	Q R			41 28		_						34						_		_		428			
250	S			28 28		-						340										28			
230	T			<u>20</u> 56		-						30						_				20			
250	U			28		-						340						_				46			
279	V			05								35							-			51			
342	Ŵ			68								120								_		20			
268	X			19								340							-	_		46			
286	Ŷ			12								36										64			
250	Ż			01								321								-		28			

450

 $\begin{array}{c|cccc} 263 & 0 \\ 92 & 1 \\ 250 & 2 \\ 250 & 3 \\ 279 & 4 \\ 250 & 5 \\ 250 & 6 \\ 250 & 7 \\ 250 & 8 \\ 250 & 8 \\ 250 & 9 \\ \end{array}$ 

30	0	mm U	PPE	R	CAS	SE	†0	3	00	)	mm	UP	PER	CA	SE	-
30	0	L 152	<ul> <li>&lt; 186</li> <li>&lt; 229</li> </ul>	-	<u>в</u> 167	<u>н</u> 152	<b>Ξ</b> 167	H 43	+	₩ 198	N F	167 181		<u>0</u> 176		× 179
190	Α	2	:07		-			24	2					24	2	
167	В		19					23	51				1	21	9	
167	С		201					21	9					21	9	
167	D		19					23						21	9	
152	Е		86					20						20		
152	F		86					20						20		
167	G		19					23						21	9	
167	Η		19					23						23		
43	Ι		95					10						10		
152	L د		04					21					-	21		
167	- ×		201 69					21						21		
152 198	M		50					20					-	20		
198	N		19					23						20		
176	0		28					24						22		
167	P		19					23						21		
176	Q		28					24	0					22	200	
167	R		19					23						21		
167	S		19					23						21	9	
152	Ť		69					20						20		
167	U	2	19					23	51					23	31	
186	٧	2	03					23						23		
229	W		46					28						28		
179	Х		13					23						23		
190	Υ		07					24						24		
167	Ζ	2	201				_	21	9					21	9	

4	50	mm	DΙ	GIT	†c	o 4!	50	mm	DIG	βIT						500	mm	
45	0	263			250			92	250	279	250				30	0	176	
		0	2	3	6	8	9	1	5	4	7						0	Ĺ
63	0			34	41			35	59	3.	41				176	0		-
2	1			18	38			18	38	1	70	1			62	1		Γ
50	2			- 32	28			34	46	- 32	28				167	2		
50	S			32	28			3,	46	32	28				167	З		
79	4			35	57			35	57	- 30	)5				186	4		
50	5			- 32	28			34	46	32	28				167	5		
50	9			32	28			3,	46	32	28				167	6		
50	7			32	28			32	28	2.	76				167	7		
50	8			- 32	28			34	46	32	28				167	8		
50	9			32	28			34	46	32	28				167	9		
												-						-

186	٧		203				2	238			
229	W		246				í	281			
179	Х		213				2	231			
190	Y		207				2	242			
167	Ζ		201				2	219			
14	300	mm	DI	GIT	† C	30	00	mm	DIC	ΞT	
30	0	176			167			62	167	186	167
		0	2	3	6	8	9	1	5	4	7
176	0			22	28			24	40	22	28
62	1			12	26			12	26	1.	14
167	2			2	19			2.	31	2	19
				0					31	2.	19
167	З			2							
167 186	4			23					38	20	03
					38				38	20	
186	4			23	38 19			23	38 31	20	03
186 167	4 5			23	38 19 19			23 23 23	38 31	20 21	03 19
186 167 167	4 5 6			23	38 19 19 19			23 23 23	38 31 31 19	20 2 2 18	03 19 19

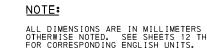
25	50	mm UPPER	CASE to 250 mm UPP	ER CASE
25	0	A 159 A 159 A 159 A 159	Image: 100 minipage         Image: 100 minipage	Z X S D O D 2 Z 139 139 139
159	Α	173	202	202
139	В	182	193	182
139	С	167	182	182
139	D	182	193	182
127	Е	155	170	170
127	F	155	170	170
139	G	182	193	182
139	Н	182	193	193
36	Ι	79	90	90
127	J	170	181	181
139	Κ	167	182	182
127	L	141	170	170
165	М	208	219	219
139	Ν	182	193	193
147	0	190	201	190
139	Ρ	182	193	182
147	Q	190	201	190
139	R	182	193	182
139	S	182	193	182
127	T	141	170	170
139	U	182	193	193
155	٧	169	198	198
190	W	204	233	233
149	Х	177	192	192
159	Y	173	202	202
139	Ζ	167	182	182

2	250	mm	DI	GIT	†c	2	50	mm	DIC	ΓI	
25	0	147			139		52	139	155	139	
		0	2	3	6	9	1	5	4	7	
147	0			19	90		21	01	19	90	
52	1			1 (	)6		1 (	26	9	5	
139	2			18	32			19	93	18	32
139	3			18	32			19	93	18	32
155	4			19	98			19	38	10	59
139	5			18	32			19	93	18	32
139	6			18	32		19	93	18	32	
139	7			18	32		18	32	15	53	
139	8				32			19	93	18	32
139	9			18	32			19	93	18	32

15	50 (	mm UPPER	CASE to 150 mm UPP	ER CASE
15	0	A 114 95 95 95		88         88         68         70           C         O         Q         S         X         Z
95	Α	104	121	121
83	В	109	115	109
83	С	100	109	109
83	D	109	115	109
76	Е	93	102	102
76	F	93	102	102
83	9	109	115	109
83	Η	109	115	115
21	Ι	47	53	53
76	J	102	108	108
83	Κ	100	109	109
76	L	85	102	102
99	М	125	131	131
83	Ν	109	115	115
88	0	114	120	114
83	Р	109	115	109
88	g	114	120	114
83	R	109	115	109
83	S	109	115	109
76	Т	85	102	102
83	U	109	115	115
93	۷	102	119	119
114	W	123	140	140
89	X	106	115	115
95	Y	104	121	121
83	Z	100	109	109

	- 1												
		1	50	mm	DI	GIT	† † ¢	> 15	50	mm	DIC	ΓI	
83		15	0	88			83		31	83	93	83	
Ζ				0	2	3	6	9	1	5	4	7	
		88	0			1	14			12	20	1	14
		31	1			6	3		6		5	7	
		83	2			10	29			1 '	15	10	)9
		83	З			10	09			1 '	15		)9
		93	4			1	19			1.	19	10	)2
		83	5			10	29			1	15	10	29
		83	9				09			1	15		)9
		83	7		_	10	)9		10	)9	9	2	
		83	8			10	29			1.	15	10	)9
		83	9			10	09			1	15	10	)9

1 (	00	mm	ר U	PΡ	Εf	R	СA	12	ΞE		t c	)	1 (	C	)	mr	n	U	PF	۶E	R	CA	١S	Е
10	0	64	51	62	76	64	56		٦ 1	5	56	14	56	51	66			i	96			59	5	
		Α	JT	۷	W	Y	ΒI	D	E	F	Н	I	Κ	L	М	Ν	Ρ	R	U	С	G	00	۱S	
64	A		1	70									81									8	1	_
56	В			73									77									7	3	-
56	С		(	57									73									7	3	_
56	D			73									77									7	3	_
51	E		(	52									68									6		_
51	F		(	52									68									6		
56	G			73									77									7		
56	Н			73									77									7		
14	Ι			31									35									3		
51	J			68									72									7		
56	К			57									73									7		
51	L			57									68									6		
66	М			33									87									8	7	
56	Ν			73								_	77	_								7		
59	0			76									80									7		
56	Р			73		_						_	77	_								7		
59	Q	∥		76		_							80									7		
56	R			73									77									7		
56	S	-		73									77									7		
51	T	⊩		57		_							68 77									6		
56		-		73		_														-		7		_
62 76	V W			58		_							79							-		7		
	X	-		32 70		_							93 76							-		9 7		
59 64	Y	╢		70		_		_	_	_	_		81		_	_	_	_		-	_	- 18		
56	Z			57		-							73							-		- 7		_
 70	L	11		וכ									15										J	



E		200	mm UPPER CA	SE to 2	200 mm	UPPER CA	SE
149		200	127 102 152 1127 111	102 28 28	1102	111	111
X Z		200			< L M N F		
		127 A 111 B	138 145		61 54	16	
		111 C 111 D	134 145	1.	45 54	14	15
		102 E 102 F	125 125	1:	36 36	13	36
		111 G 111 H	145	15	54 54	14	15
		28 I 102 J	62 136	7	1 45	7	1
		111 K 102 L	134 113	1.	45 36	14	15
		132 M 111 N	166 145	1.	75 54	17	'5
		117 0 111 P	151	16	60 54	15	51
		117 Q 111 R	151	16	60 54	15	51
		111 S 102 T	145	15	54 36	14	15
		111 U 124 V	145	15	54 58	15	54
		152 W 119 X	163 142	18	86 53	18	36
		127 Y 111 Z	138 134	10	61 45	16	51
]							·
		200	-	o 200 m			
		200	111111111111111111111111111111111111111			111	
		117 0	0 2 3 6	8 9	1 5 160	4 7	
		41 1 111 2	84 145		84 154	75 145	
		111 3 124 4	145 158		154 158	145 135	
		111 5 111 6	145 145		154 154	145 145	
		111 7 111 8	145 145		145 154	122 145	
		111 9	145		154	145	
E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100 59 0 21 1 56 2 56 3 62 4 56 5 56 5 56 7 56 8 56 9		GIT to 100 3 6 8 9 76 42 73 73 73 73 73 73 73 73 73 73	mm DIGJ N & 1 5 80 42 77 77 77 77 77 77 77 77 77 7	T         T           76         38           73         68           73         68           73         73           62         73           73         73		
	<b></b>	<b>GO</b> 10		TRIC			<b>T T T T T</b>
			MONWEAL Partment	Γ OF ′	TRAN	SPORTA	TION
			AU OF HIGHWAY	I SAFEII	AND T		INEERING
	D	BURE	SPA	CING	СНА	RTS	
	D	BURE	SPA APPL IE U	CING ED LE PPER	CHA TTEI CAS	RTS RS & N	
		BURE	SPA APPL IE U SER II	CING ED LE PPER ES C	CHA TTEI CAS ( ME	RTS RS&N E TRIC)	
UNLE	SS REC	BURE I RECI	SPA APPLIE U SERII MAY 25, 2007	CING ED LE PPER ES C	CHA TTEF CAS (ME	RTS RS & N E TRIC) Y 25, 2007	SHT. 6 OF 18
UNLE	SS REC	BURE I RECI	SPA APPLIE U SERII MAY 25, 2007	CING ED LE PPER ES C	CHA TTEF CAS (ME	RTS RS & N E TRIC) Y 25, 2007	IUMERALS

25	50	mm I	UF	P	ΕF	7	СA	S	Е	10	C	2	5 C	)	mr	n	UF	P	Έ	R	(	CΑ	S	E	
25	0	- ·	4 95	: 117		135	107		- G2	107	32		- 95	: 123			107	_		0		115	107		-
		AJ	T	· ·	W	Y	B		E	Н	-		-	м	N	٢	R	U	С	G	0	G	·	X	Z
135	Α			48								17											3		
107	В			45								15						_					5		
107	С			32								14						_				14			
107	D			45								15						_				14			
95	E		12	20								13	5					_				13			
95 107	G			20 45								13						_				13 14			
107	H			45								15 15						_				15			
32	Ī			0								80						-				80	<u>5</u>		
111	J			49								15						-				15			
	ĸ			36								14						-				14			
95	L			08								13						-				13			
123	M			61								17										17			
107	N			45								15	5									15	5		
115	0			53								16										15			
107	Ρ		1.	45								15	5									14			-
115	Q		15	53								16	3									15	3		-
107	R			45								15										14			_
107	S			45								15										14			
95	T			80								13										13			
107	U			45								15										15			
117	٧		1.	30								15						_				15			
159	W			72								19						_				19			
117	Х			42								15						_				15			
135	Y			48								17						_				17			
107	Ζ		1.	32								14	5									14	5		

2	50	mm	DI	GIT	†c	> 25	50	mm	DIC	βIT	
25	0	115			107			52	107	123	107
		0	2	3	6	8	9	1	5	4	7
115	0			15	53			16	63	15	53
52	1			1 (	00			10	00	9	0
107	2			14	45			15	55	1.	45
107	3			14	45			15	55	1.	45
123	4			10	51			10	61	1.	36
107	5			14	45			15	55	1.	45
107	6			14	45			15	55	1.	45
107	7			14	45			14	45	12	20
107	8				45			15	55	1.	45
107	9			14	45			15	55	1.	45

20	00	mm	ſ	UF	P	Еf	R	CAS	SΕ	1	С	20	C		mm	I	U	PF	PER	ł	СА	SE	-	
20	0	108	89	76	94	127	108	86	76	86	25	89	76	99			0	98			92	86	94	
		Α	J	Т	۷	W	Y	ΒD	ΕF	= н	I	Κ	L	М	Ν	Ρ	R	U	С	3 (	0 Q	S	Х	
108	Α			1	18							13	8								13	8		
86	В			1	16							12	4								11	6		
86	С				)6							11									11			
86	D				16							12									11			
76	E			9	6							10									10			
76	F			9								10									10			
86	G				16							12									11			
86	Н				16							12	4								12	4		
25	I				5							63									63			
89	J				19							12									12			
89	K				)9							11									11			
76	L			8								10									10			
99	М				29							13									13			
86	N				16							12									12			
92	0				22							13									12			
86	P				16							12									11			
92	Q				22							13									12	2		_
86	R				16							12									11			
86	S				16							12									11			
76	T			8								10							<u> </u>		10			_
86	UV				16						_	12	4						<u> </u>		12	4		
94 127					)4							12									12	4		_
	W				37 14							15							<u> </u>					
94 108	X				14							12									12			_
86	Z	-			06							11							-		11			_
00	1 4	11		10	סי							1.1	υ						I		11	υ		

2	200	mm	DΙ	GIT	tc	20	00	mm	DIC	ΓI	
20	0	92			86			41	86	66	86
		0	2	3	6	8	9	1	5	4	7
92	0			12	22			13	30	12	22
41	1		79		7	9	7	1			
86	2			1	16			12	24	1	16
86	3			1	16			12	24	1	16
99	4			12	29			12	29	10	)9
86	5			1	16			12	24	1	16
86	6			1	16			12	24		16
86	7			1	16			1	16	9	6
86	8			1	16				24	1	16
86	9			1	16			12	24	1	16

1
69
31 64 64 74
64
64
74
64
64
74 64 64 64 64
64

10	00	mn	١	U	PF	Έ	R	CAS	SE	†¢	c	10	20	)	mn	۱	U	PF	Έ	R	C A	S	Ξ	
10	0	54	44	82	47	64	54	43	38	43	4	44	38	49			ŗ	45			46	43	47	43
	-	А	J	1.	1.	W	Y	ΒD	EF	Н	1	IΚ	L	М	Ν	Ρ	R	U	С	G	00	s	Х	Z
54	Α			Ę	59							69									6	9		
43	В				58							62									5			
43	С			n ,	53							58									5			
43	D				58							62									5	В		
38	E			4	18							53									5			
38	F			4	18							53									5			
43	G			Ę	58							62									5			
43	Н			5	58							62									6			
13	Ι			2	28							32									3			
44	J				59							63									6			
44	K				54							59									5			
38	L				13							53									5			
49	М				54							68									6			
43	N			5	58							62									6	2		
46	0				51							65									6			
43	Ρ			Ę	58							62									5			
46	Q				51							65									6			
43	R				58							62									5			
43	S			Ę	58							62									5	8		
38	Т				13							53									5			
43	U				58							62									6			
47	٧				52							62									6			
64	W				59							79									7			
47	Х				57							62									6			
54	Y				59							69									6			
43	Ζ			5	53							58									5	8		

1	00	mm	DI	GIT	tc	o 10	00	mm	DIC	S I T	
10	0	46			43			21	43	49	43
		0	2	3	6	8	9	1	5	4	7
46	0			6	51			6	5	6	51
21	1		40		4	0	3	6			
43	2			5	8			6	2	5	8
43	3			5	8			6	2	5	8
49	4			6	4			6	4	5	4
43	5			5	8			6	2	5	8
43	6			5	8			6	2	5	8
43	7			5	8			5	8	4	8
43	8				8			6	2	5	8
43	9			5	8			6	2	5	8

-	C OF TRANSPORTA SAFETY AND TRAFFIC ENGL	
	CING CHARTS ED LETTERS & N	IUMERALS
	PPER CASE ES B (METRIC)	
RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 7 OF 18
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8700C

## METRIC UNITS

COMMONWEALTH OF PENNSYLVANIA

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. SEE SHEETS 12 THROUGH 17 FOR CORRESPONDING ENGLISH UNITS.
- USE OF SERIES B ALPHABET IS RESTRICTED TO STREET NAME SIGNS, PARKING SIGNS AND OTHER SIMILAR SIGNS WHERE LIMITED BREADTH AND STROKE WIDTHS ARE REQUIRED FOR DESIGN PURPOSES.

#### NOTES:

64	S		87					93				
57	T		65					80				
64	U		87					93				
70	۷		78					93				
95	W		103					18				
70	Х		85					93				
81	Y		89				1	04				
64	Z		79					87				
1	50	mm	DI	GIT	†c	> 15	50	mm	DIC	<u>it</u>		
15	0	69			64			31	64	74	64	
		0	2	3	6	8	9	1	5	4	7	]
69	0			9	2			9	8	9	2	1
31	1			6	0				0		4	1
64	2			8				9	3	8		]
64	3			8				9	3	8		
74	4			9					7		2	
64	5			8					3	8		
64	6			8					3	8	7	
64	7			8					7		2	
64	8			8					3	8		
64	9			8	7			9	3	8	7	1

15	50 1	mm	۱	UF	P	Εf	R	С	43	SE	Ξ	†c	)	15	6 C	)	mn	n	U	PF	Ρ	R	С	A	SE		
15	0	81	<u>66</u>	57	70	95	81	51	5		57	64	19	99	57	74			ţ	64			50	5	64	70	64
		Α	J	Т	۷	W	Υ	В	D	E	F	н	I	К	L	М	Ν	Ρ	R	U	С	G	0	Q	S	Х	Ζ
81	Α			8	9								1	04	ł								1	0	4		
64	В			8	7									93									;	37			-
64	С			7	9									87									;	37			
64	D			8	7									93									;	37			
57	Е			7	2									80									1	3 C	)		
57	F				2									80										3 C			_
64	G				7									93										37			
64	Ξ			8										93										93			
19	Ι				2									48										48			
66	J				9									95										95			
66	K				1									89										39			
57	L				5									80										3 C			
74	м				7									03	5									0			
64	Ν				7									93										93			
69	0				2									98										92			
64	Р				7									93										37			
69	Q				2									98										92			
64	R			8										93										37			
64	S				7									93										37			
57	Ť				5									80										30			
64	U				7									93										93			
70	٧				8									93										93			
95	W				23									18	}									1			
70	Х				5									93										93			
81	Y				9									04	ł									0			
64	Ζ			7	9									87										37			

				20" UPPER C	ASE	to lo	wer	case					
20		13.6 14.6 14.8 15.4 15.4	4.6	14.4 13.8 13.8 13.6 13.6 13.6		8	12.8	8 6	15.2	23. 2	15.4	15.6	12.2
	a	cdegoq	ī	bhklmnpru	f	j	s	t	v	w	×	У	z
18.8 A	23.2	23.6	24.0	24.4	22.8	20.0	22.8	22.4	22.0	22.2	21.8	22.0	23.0
15.2 B	20.8	21.2	21.6	22.0	20.4	17.6	20.4	20.0	19.6	19.8	19.4	19.6	20.6
16.4 C	21.2	21.6	22.0	22.4	20.8	18.0	20.8	20.4	20.0	20.2	19.8	20.0	21.0
16.2 D	22.0	22.4	22.8	23.2	21.6	18.8	21.6	21.2	20.8	21.0	20.6	20.8	21.8
12.8 E	18.2	18.6	19.0	19.4	17.8	15.0	17.8	17.4	17.0	17.2	16.8	17.0	18.0
12.2 F	17.4	17.8	18.2	18.6	17.0	14.2	17.0	16.6	16.2	16.4	16.0	16.2	17.2
17.4 G	23.2	23.6	24.0	24.4	22.8	20.0	22.8	22.4	22.0	22.2	21.8	22.0	23.0
15.4 H	22.0	22.4	22.8	23.2	21.6	18.8	21.6	21.2	20.8	21.0	20.6	20.8	21.8
4.0 I	10.6	11.0	11.4	11.8	10.2	7.4	10.2	9.8	9.4	9.6	9.2	9.4	10.4
11.2 J	17.8	18.2	18.6	19.0	17.4	14.6	17.4	17.0	16.6	16.8	16.4	16.6	17.6
15.6 K	20.0	20.4	20.8	21.2	19.6	16.8	19.6	19.2	18.8	19.0	18.6	18.8	19.8
11.8 L	16.8	17.2	17.6	18.0	16.4	13.6	16.4	16.0	15.6	15.8	15.4	15.6	16.6
18.4 M	25.0	25.4	25.8	26.2	24.6	21.8	24.6	24.2	23.8	24.0	23.6	23.8	24.8
16.6 N	23.2	23.6	24.0	24.4	22.8	20.0	22.8	22.4	22.0	22.2	21.8	22.0	23.0
18.6 0	24.4	24.8	25.2	25.6	24.0	21.2	24.0	23.6	23.2	23.4	23.0	23.2	24.2
14.6 P	19.6	20.0	20.4	20.8	19.2	16.4	19.2	18.8	18.4	18.6	18.2	18.4	19.4
18.6 Q	24.4	24.8	25.2	25.6	24.0	21.2	24.0	23.6	23.2	23.4	23.0	23.2	24.2
15.0 R	20.6	21.0	21.4	21.8	20.2	17.4	20.2	19.8	19.4	19.6	19.2	19.4	20.4
14.4 S	19.6	20.0	20.4	20.8	19.2	16.4	19.2	18.8	18.4	18.6	18.2	18.4	19.4
14.4 T	19.0	19.4	19.8	20.2	18.6	15.8	18.6	18.2	17.8	18.0	17.6	17.8	18.8
15.6 U	22.2	22.6	23.0	23.4	21.8	19.0	21.8	21.4	21.0	21.2	20.8	21.0	22.0
	21.4	21.8	22.2	22.6		18.2	21.0	20.6	20.2	20.4	20.0	20.2	21.2
26.6 W		31.6 21.8	32.0	32.4	30.8	28.0	30.8	30.4	30.0	30.2	29.8	30.0	21.2
17.2 X	21.4					18.2	21.0	20.6	20.2	20.4	20.0	20.2	21.2
17.6 Y	21.6	22.0	22.4	22.8	21.2	18.4	21.2	20.8	20.4	20.6	18.2	20.4	
14.4 Z	19.6	20.0	20.4	20.8	19.2	16.4	19.2	10.8	18.4	10.0	10.2	10.4	19.4

	80	<u>628288</u>	16			ower	cas	-	~	Q	m	10	
16	11.8	10.9 11.7 11.8 11.7 12.8 12.8	3. 7	$\frac{11.5}{5.1}$ $\frac{11.6}{5.1}$ $\frac{11.4}{7.4}$ $\frac{11.7}{7.4}$	7.7	7.0	10.2	7.8	12.2	18.6	12.3	12.5	9•8
	a	cdegoq	ī	bhklmnpru	f	j	s	†	v	w	×	У	z
5.0 A	18.6	18.9	19.2	19.5	18.2	16.0	18.2	17.9	17.6	17.8	17.4	17.6	18.4
2.2 B 3.1 C	16.6	17.0 17.3	17.3	17.6 17.9	16.3	14.1	16.3 16.6	16.0 16.3	15.7 16.0	15.8	15.5 15.8	15.7 16.0	16.5
3.0 D	17.6	17.9	18.2	18.6	17.3	15.0	17.3	17.0	16.6	16.8	16.5	16.6	17.4
0.2 E 9.8 F	14.6	14.9	15.2	15.5	14.2	12.0	14.2	13.9	13.6 13.0	13.8			14.4
3.9 G	13.9	14.2	14.6	14.9 19.5	13.6	11.4	18.2	17.9	17.6	13.1	12.8	13.0	18.4
2.3 H	17.6	17.9	18.2	18.6	17.3	15.0	17.3	17.0	16.6	16.8	16.5	16.6	17.4
.2 I	8.5	8.8 14.6	<u>9.1</u> 14.9	9.4 15.2	8.2 13.9	5.9 11.7	8.2 13.9	7.8 13.6	7.5 13.3	7.7 13.4	7.4	7.5	8.3
2.5 K	16.0	16.3	16.6	17.0	15.7	13.4	15.7	15.4	15.0	15.2	14.9	15.0	15.8
9.4 L	13.4	13.8	14.1	14.4	13.1	10.9	13.1	12.8	12.5	12.6	12.3		13.3
4.7 M 3.3 N	20.0	20.3 18.9	20.6	21.0 19.5	19.7	17.4	19.7 18.2	19.4 17.9	19.0 17.6	19.2 17.8	18.9		19.8
4.9 0	19.5	19.8	20.2	20.5	19.2	17.0	19.2	18.9	18.6	18.7	18.4	18.6	19.4
1.7 P 4.9 Q	15.7	16.0 19.8	16.3	16.6 20.5	15.4	13.1 17.0	15.4	15.0 18.9	14.7	14.9 18.7	14.6		
2.0 R	16.5	16.8	17.1	17.4	16.2	13.9	16.2	15.8	15.5	15.7	15.4	15.5	16.3
1.5 S	15.7	16.0	16.3	16.6	15.4	13.1	15.4	15.0	14.7	14.9	14.6	14.7	
1.5 T 2.5 U	15.2	15.5 18.1	15.8	16.2 18.7	14.9	12.6	14.9	14.6	14.2	14.4	14.1	14.2	15.0
3.6 V	17.1	17.4	17.8	18.1	16.8	14.6	16.8	16.5	16.2	16.3	16.0	16.2	17.0
1.3 W	25.0	25.3	25.6	25.9	24.6	22.4	24.6	24.3	24.0	24.2	23.8		24.8
3.8 X 4.1 Y	17.1	17.4	<u>17.8</u> 17.9	18.1 18.2	16.8 17.0	14.6	16.8	16.5	16.2	16.3			17.0
	15.7	16.0	16.3		15.4	13.1	15.4	15.0					15.5
1.5 Z			1 (	D.6" UPPER CA	SE †	0 101	wer (	case					
	2.8	88.238.3		).6" UPPER CA				92DC	8.1	12.3	8. 2	8.3	6.5
10.6	D 7.8	b 0 0 1.2 b 0 0 1.3 b 0 0 0 1.3 b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ( 5.4	0.6 " UPPER CA <u>5.6 1 UPPER CA</u> <u>5.6 1 1 0.7 1</u>	SE t		wer ( من s	+ 5.2	8. ×	€ 12.	80 X	ж У	r 6.5
10.6	∞ ≻ 12•3	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	1 ( ~ ~ 1 12.7	0.6" UPPER CA	SE †	10.0 10.0	wer ( % % s 12,1	2°5 11.9	∞ <b>.</b> v 11.7	<u>∼</u> ₩ 11.8	∞ × 11.6	ю <sup>.</sup> У 11.7	یں ق 12,2
10.6 0.0 A 3.1 B	D 7.8	b 0 0 1.2 b 0 0 1.3 b 0 0 0 1.3 b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ( 5.4	0.6 " UPPER CA <u>5.6 1 UPPER CA</u> <u>5.6 1 1 0.7 1</u>	SE t		wer ( من s	+ 5.2	× 8	€ 12.	80 X	ж У	ده و ع 12.2 10.5
10.6 0.0 A 3.1 B 3.7 C 3.6 D	∞ ∼ 12.3 11.0 11.2 11.7	<u>∼ ∠ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ </u>	1 ( * N 12.7 11.4 11.7 12.1	D. 6 " UPPER CA	SE t -  f 12.1 10.8 11.0 11.4	0 0 	Wer ( w i s 12.1 10.8 11.0 11.4	t 11.9 10.6 10.8 11.2	x 11.7 10.4 10.6 11.0	× 11.8 10.5 10.7 11.1	x 11.6 10.3 10.5 10.9	x y 11.7 10.4 10.6 11.0	ده ن ت 12.2 10.9 11.0
10.6 0.0 A 3.1 B 3.7 C 3.6 D 5.8 E	∞ ∼ 12.3 11.0 11.2 11.7 9.6	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	1 ( * 12.7 11.4 11.7 12.1 10.1	D. 6 " UPPER CA w w y to the control of the contro	SE t -  f 12.1 10.8 11.0	0 0 0 10.6 9.3 9.5 10.0 8.0	Wer ( w u s 12.1 10.8 11.0	t 11.9 10.6 10.8 11.2 9.2	x 11.7 10.4 10.6 11.0 9.0	× 11.8 10.5 10.7 11.1 9.1	x 11.6 10.3 10.5 10.9 8.9	x y 11.7 10.4 10.6 11.0 9.0	z 12.2 10.9 11. 11.6 9.5
10.6 0.0 A 3.1 B 3.7 C 5.6 D 5.8 E 5.5 F 7.2 G	∞ 12.3 11.0 11.7 11.7 9.6 9.2 12.3	N / / ∞ / Z / ∞ / ∞ / ∞ / ∞ / ∞ / ∞ / ∞ /	1 ( * 12.7 11.4 11.7 12.1 10.1 9.6 12.7	D. 6 " UPPER CA	SE † - - - - - - - - - - - - -	0 0 10.6 9.3 10.6 8.0 7.5 10.6	Wer ( wer ( s 12.1 10.8 11.0 11.4 9.4 9.0 12.1	2,5 + 11.9 10.6 10.8 11.2 9.2 8.8 11.9	x 11.7 10.4 10.6 11.0 9.0 8.6 11.7	v 11.8 10.5 10.7 11.1 9.1 8.7 11.8	∞       ×       11.6       10.3       10.5       10.9       8.9       8.5       11.6	x y 11.7 10.4 10.6 11.0 9.0 8.6 11.7	z 12.2 10.9 11. 9.5 9.1 12.2
10.6 0.0 A 3.1 B 3.7 C 3.6 D 5.8 E 5.5 F 0.2 G 5.2 H	∞ 12.3 11.0 11.2 11.7 9.6 9.2 12.3 11.7	N         N	1 ( 12.7 11.4 11.7 12.1 10.1 9.6 12.7 12.1	D. 6 " UPPER CA $ \begin{array}{c}                                     $	SE t f 12.1 10.8 11.0 11.4 9.0 12.1 11.4	0 10 2 + 10.6 9.3 9.5 10.0 8.0 7.5 10.6 10.6	Wer (	N 11.9 10.6 10.8 11.2 9.2 8.8 11.9 11.2	x 11.7 10.4 10.6 11.0 9.0 8.6 11.7 11.0	N           w           11.8           10.5           10.7           11.1           9.1           8.7           11.8           11.1	x 11.6 10.3 10.5 10.9 8.9 8.5 11.6 10.9	x y 11.7 10.4 10.6 11.0 9.0 8.6 11.7 11.0	z 12.2 10.2 11. 11.6 9.5 9.1 12.2 11.6
10.6 0.0 A 3.1 B 3.7 C 3.6 D 5.8 E 5.8 E 5.2 G 3.2 H 2.1 I 5.9 J	∞ 12.3 11.0 11.2 11.7 9.6 9.2 12.3 11.7 5.6 9.4	N         L         Z         S	1 ( * 12.7 11.4 11.7 12.1 10.1 9.6 12.7 12.1 12.7 12.1 6.0 9.9	D. 6 " UPPER CA	SE t - - - - - - - - - - - - -	0 100 2.7 10.6 9.3 9.5 10.6 10.6 10.6 10.6 10.9 7.7	wer (	N     5       t     11.9       10.6     10.8       11.2     9.2       8.8     11.9       11.2     5.2       9.0	w           11.7           10.4           10.6           11.0           9.0           8.6           11.7           11.0           5.0           8.8	w 11.8 10.5 10.7 11.1 9.1 8.7 11.8 11.1 5.1 8.9	∞           ×           11.6           10.3           10.5           10.9           8.9           8.5           11.6           10.9           8.7	x y 11.7 10.4 10.6 11.0 9.0 8.6 11.7 11.0 5.0 8.8	z 12.2 10.9 11. 9.5 9.5 11.6 5.5 9.3
10.6 0.0 A 3.1 B 3.7 C 5.6 D 5.8 E 5.5 F 5.2 G 3.2 H 2.1 I 5.9 J 5.3 K	∞ 12.3 11.0 11.2 11.7 9.6 9.2 12.3 11.7 5.6 9.4 10.6	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1 ( * * 12.7 11.4 11.7 12.1 9.6 12.7 12.1 6.0 9.9 11.0	D. 6 " UPPER CA $ \begin{array}{c}  & & & & & & & & \\  & & & & & & & & \\  & & & &$	SE †  f 12.1 10.8 11.0 11.4 9.4 9.0 12.1 11.4 9.2 10.4	0 100 	wer ( wer ( w 12.1 10.8 11.0 11.4 9.4 9.0 12.1 11.4 9.2 10.4	N       5         t       11.9         10.6       10.8         11.2       9.2         8.8       11.9         11.2       5.2         9.0       10.2	x           11.7           10.4           10.6           11.0           9.0           8.6           11.7           11.0           5.0           8.8           10.0	w 11.8 10.5 10.7 11.1 9.1 8.7 11.8 11.1 5.1 8.9 10.1	x 11.6 10.3 10.5 10.9 8.9 8.5 11.6 10.9 4.9 8.7 9.9	x y 11.7 10.4 10.6 11.0 9.0 8.6 11.7 11.0 5.0 8.8 10.0	z 12.2 10.9 11.1 11.6 9.5 9.1 12.2 11.6 5.5 9.3 10.5
10. 6 0. 0 A 3. 1 B 5. 7 C 5. 6 D 5. 8 E 5. 5 F 5. 2 G 3. 2 H 2. 1 I 5. 9 J 3. 3 K	∞ 12.3 11.0 11.2 11.7 9.6 9.2 12.3 11.7 5.6 9.4	N     L     N     L     N     N       0     0     0     0     0     0       11.2     11.2     11.2     11.4       11.9     9.9     9.4       12.5     11.9       5.8     9.6	1 ( * 12.7 11.4 11.7 12.1 10.1 9.6 12.7 12.1 12.7 12.1 6.0 9.9	D. 6 " UPPER CA	SE t - - - - - - - - - - - - -	0 100 2.7 10.6 9.3 9.5 10.6 10.6 10.6 10.6 10.9 7.7	wer (	N     5       t     11.9       10.6     10.8       11.2     9.2       8.8     11.9       11.2     5.2       9.0	w           11.7           10.4           10.6           11.0           9.0           8.6           11.7           11.0           5.0           8.8	w 11.8 10.5 10.7 11.1 9.1 8.7 11.8 11.1 5.1 8.9	∞           ×           11.6           10.3           10.5           10.9           8.9           8.5           11.6           10.9           8.7	x y 11.7 10.4 10.6 11.0 9.0 8.6 11.7 11.0 5.0 8.8	z 12.2 10.5 11.6 9.5 9.1 12.2 11.6 5.5 9.3 10.5 8.8
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10. 6 0. 0 A 3. 1 B 3. 7 C 3. 6 D 5. 8 E 5. 2 G 3. 2 G 3. 2 H 2. 1 I 5. 9 J 3. 3 L 2. 8 M 3. 8 N 3. 8 N 3. 9 Q 3. 0 R 5. 6 T 3. 0 V 3. 0 V	∞ 12.3 11.0 11.2 11.7 9.6 9.2 12.3 11.7 5.6 9.4 10.6 8.9 13.3 12.9 10.4 12.9 10.4 12.9 10.4 12.9 10.4 12.3 11.0 11.2 11.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1(( 12.7 11.4 11.7 12.1 11.4 11.7 12.1 1.1 0.1 9.9 11.0 9.9 13.4 10.1 9.9 13.7 13.7 13.4 10.8 13.7 13.4 10.8 13.7 13.4 11.3 10.8 13.2 13.2 13.4 11.3 10.8 13.2 12.7 13.4 11.5 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 13.4 10.1 9.9 9.3 13.7 13.4 10.8 13.7 13.4 11.3 10.8 13.7 13.4 11.3 10.8 13.7 13.4 11.3 13.8 13.7 13.4 11.3 13.8 13.7 13.4 11.3 13.8 13.7 13.4 11.3 13.8 13.7 13.4 11.3 13.8 13.7 13.4 11.3 13.8 13.7 13.8 1.	D. 6 " UPPER CA [ [m]	SE † - - - - - - - - - - - - -	0 100 10.0 9.3 9.5 10.0 8.0 7.5 10.6 10.0 8.7 11.6 8.7 11.6 8.7 11.6 8.7 11.6 8.7 11.6 8.7 11.6 8.7 11.6 8.7 11.6 8.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	wer ( wer ( 12.1 10.8 11.0 11.4 9.4 9.2 10.4 9.2 10.4 8.7 13.0 12.1 11.2 9.2 10.4 8.7 13.0 12.1 10.2 12.7 10.2 12.7 10.2 12.7 10.2 12.7 10.2 10.7 10.2 10.2 10.2 10.2 10.7 10.2 10.7 10.2 10.7 10.2 10.7 10.2 10.7 10.2 10.7 10.2 10.7 10.7 10.7 10.2 10.7 10.2 10.7	t         11.9           10.6         11.2           9.2         8.8           11.2         5.2           9.0         10.2           11.2         5.2           10.8         11.9           11.2         10.2           10.2         10.5           10.5         12.8           11.9         12.5           10.0         9.6           11.3         10.9	w           11.7           10.4           10.6           11.0           8.6           11.7           11.0           5.0           8.8           10.3           12.3           9.8           12.3           9.8           9.4           11.0           10.7	N           w           11.8           10.5           10.7           11.1           9.1           9.1           11.1           5.1           8.7           11.1           5.1           8.9           10.1           8.4           12.7           11.8           12.4           9.9           12.4           9.9           12.4           9.9           12.4           9.9           10.4           10.4           9.9           9.5           11.2           10.8	x 11.6 10.3 10.5 10.9 8.9 8.5 11.6 10.9 4.9 8.7 9.9 8.2 12.5 11.6 12.2 9.6 12.2 9.6 9.3 11.0.6	x           11.7           10.4           10.6           11.0           11.0           5.0           8.8           10.0           8.0           11.7           11.0           11.7           11.0           5.0           8.3           12.6           11.7           12.3           9.8           12.3           9.8           9.4           11.1           10.7	n         is           12.2         10.9           11.6         9.5           9.1         11.6           5.5         5.5           9.3         10.2           10.2         10.2           10.3         10.2           10.4         10.5           10.5         10.5           10.6         10.7           10.7         11.7
10. 6 0. 0 A 3. 1 B 3. 7 C 5. 6 D 5. 8 E 5. 5 F 5. 2 G 3. 2 H 2. 1 I 5. 9 J 3. 3 K 5. 3 L 5. 8 M 3. 3 K 5. 3 L 5. 8 M 5. 9 J 5. 9 J 5. 8 M 5. 9 J 5. 8 M 5. 9 J 5. 8 M 5. 9 J 5. 8 M 5. 9 J 5. 9 J 5. 9 J 5. 8 M 5. 9 J 5. 9 J	∞ 12.3 11.0 11.2 11.7 9.6 9.2 12.3 11.7 9.6 9.2 12.3 11.7 9.6 9.2 12.3 11.3 10.6 8.9 13.3 12.9 10.4 12.9 10.4 10.4 10.4 10.1 11.3 16.5 11.3	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1 ((	D. 6 " UPPER CA	SE † - - - - - - - - - - - - -	J           J           10.6           9.3           9.5           10.6           10.6           0.7.5           10.6           10.7.5           10.6           10.2           8.7           10.1           9.2           8.7           10.1           9.6	wer (	N         1           1         1           1         0.6           10.8         1           9.2         8.8           11.2         9.2           5.2         9.0           10.2         8.5           12.8         11.9           12.5         10.0           12.5         10.5           10.9         1.3           10.9         1.3           10.9         1.0	w           11.7           10.6           11.0           9.0           11.0           9.0           11.7           11.0           9.0           11.7           11.0           9.0           11.7           11.0           9.0           11.7           12.3           10.3           9.4           11.1           10.7           15.9           10.7	N           w           11.8           10.7           11.1           9.1           11.1           8.7           11.1           8.9           10.1           8.9           10.1           8.9           10.1           1.2           10.4           9.9           9.5           10.2           10.2           10.4           9.9           10.2           10.3	x 11.6 10.3 10.5 10.9 8.9 8.5 11.6 10.9 8.9 8.5 12.5 11.6 12.2 9.6 12.2 9.6 9.3 11.0 12.2 10.2 10.2 10.5 11.0 12.5 11.0 10.9 11.0 11.0 11.0 10.2 11.0 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.0 10.2 10.0 10.2 10.2 10.2 10.0 10.2 10.0 10.2 10.2 10.0 10.2 10.0 10.2 10.0 10.2 10.0 10.2 10.0 10.0 10.2 10.0 10.0 10.2 10.0 10.0 10.2 10.0 10.0 10.0 10.0 10.0 10.2 10.0	x           11.7           10.4           10.0           9.0           8.6           11.0           5.0           8.8           10.0           8.8           10.0           8.8           11.7           12.6           11.7           12.3           9.8           9.4           11.1           10.3           9.8           9.4           11.1           10.7           10.7           10.7           10.7           10.7	0         0           12.2         10.5           11.6         9.5           9.1         11.6           9.5         9.3           10.5         8.8           10.5         10.5           10.6         10.5           10.6         10.5           10.6         10.5           10.6         10.5           10.6         10.5
10.6 0.0 A 8.1 B 3.7 C 3.6 D 5.8 E 5.5 F 9.2 G 3.2 H 2.1 I 5.9 J 2.1 I 5.3 L 3.3 K 5.3 L 3.8 M 3.8 N 3.9 Q 3.8 N 3.9 Q 3.0 R 7.7 P 9.9 Q 3.0 R 7.6 T 3.3 U 9.0 V 4.1 W	∞ 12.3 11.0 11.2 11.7 9.6 9.2 12.3 11.7 5.6 9.4 10.6 8.9 13.3 12.3 11.7 5.6 9.4 9.2 9.4 13.2 9.1 13.2 10.6 9.4 13.2 12.3 11.7 13.6 9.4 13.2 12.3 12.5 10.9 10.9 10.4 10.1 11.8 11.3 16.5 16	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1(0 1.1.7.7 1.1.4 1.1.7.7 1.2.1 1.2.7 1.2.1 1.0.1 1.2.7 1.2.7 1.2.7 1.3.7 1.3.7 1.3.4 1.3.4 1.1.3 1.3.4 1.1.3 1.3.4 1.1.5 1.2.2 1.1.8 1.0.5 1.2.2 1.1.8 1.7.0 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.2.1 1.1.0 1.3.7 1.3.4 1.3.4 1.1.5 1.3.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.4 1.1.7 1.1.7 1.1.4 1.1.7 1.1.8 1.1.7 1.1.8 1.7 1.1.8 1.7 1.7 1.1.8 1.7 1.7 1.7 1.1.8 1.7 1.7 1.1.8 1.7 1.7 1.7 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	D. 6 " UPPER CA	SE t - - - - - - - - - - - - -	D 100 F F J 10.6 9.5 10.0 8.0 7.5 10.6 10.0 3.9 7.2 8.9 7.2 11.6 10.6 10.6 8.0 10.6 10.6 8.0 10.6 10.6 8.0 10.6 8.0 10.6 8.0 10.6 8.0 10.6 10.6 10.6 8.0 10.6 10.6 8.0 10.6 10.6 8.0 10.6 10.6 8.0 10.6 10.6 8.0 10.6 10.6 8.7 10.6 10.6 10.6 8.7 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.7 10.6 10.6 10.6 10.6 10.6 10.7 10.6 10.6 10.6 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.6 10.6 10.6 10.7 10.6	wer ( wer ( wer ( 12.1 11.0.8 11.0 11.0 11.4 9.0 12.1 11.4 9.0 12.1 11.4 5.4 9.2 10.4 8.7 12.7 10.2 12.7 10.2 9.9 11.6 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 11.0 12.1 11.0 12.1 11.0 12.1 11.0 12.1 11.0 12.1 11.0 12.1 11.0 12.1 11.0 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.1 13.0 12.7 13.0 12.7 13.0 12.7 13.0 12.7 13.0 12.7 13.0 12.7 13.0 12.7 13.0 12.7 13.0 13.0 11.0 13.0 10.4 13.0 10.4 13.0 10.4 13.0 10.4 13.0 10.4 13.0 10.4 13.0 10.4 11.0 10.4 11.0 10.4 11.0 10.4 11.0 10.4 11.0 10.4 11.0 10.4 11.0 10.4 11.0 10.4 1	7         5           11.9         10.6           10.8         11.2           9.2         8.8           11.9         11.2           5.2         9.0           10.2         8.5           11.9         12.5           10.0         9.0           10.2         8.5           11.9         12.5           10.0         9.6           11.3         10.9           10.9         16.1	w           11.7           10.6           11.0           9.0           8.6           11.7           11.0           5.0           8.8           10.00           8.8           10.0           8.8           10.03           9.8           9.4           11.7           10.7           15.9	N           w           11.8           10.5           10.7           11.1           9.1           8.7           11.8           11.1           5.1           8.9           10.1           8.9           10.1           8.4           12.7           11.8           12.4           9.9           12.4           9.9           12.4           10.4           9.9           11.2           10.8           10.8	x 11.6 10.3 10.5 10.9 8.9 8.5 11.6 10.9 8.7 9.9 8.2 11.6 12.2 9.6 9.3 11.0 12.5 11.6 10.5 11.6 10.5 10.5 11.6 10.5 10.5 11.6 10.5 11.6 10.5 10.5 11.6 10.5 11.6 10.5 11.6 10.5 11.6 10.5 11.6 10.5 11.6 10.5 11.6 12.5 11.6 12.5 11.6 12.5 11.6 12.5 11.6 12.5 11.6 12.5 11.6 12.5 15.5 11.6 12.5 15.5 11.6 12.5 12.5 11.6 12.5 11.6 12.5 12.5 11.6 12.5 12.5 11.6 12.5 12.5 15.5	x 11.7 10.4 10.6 11.0 9.0 8.6 11.7 11.0 5.0 8.8 10.0 8.8 10.0 8.3 10.0 8.3 12.6 11.7 12.3 9.8 9.4 11.1 10.7 15.9	(r) (r) (r) (r) (r) (r) (r) (r) (r) (r)

13.3" UPPER CASE to lower case

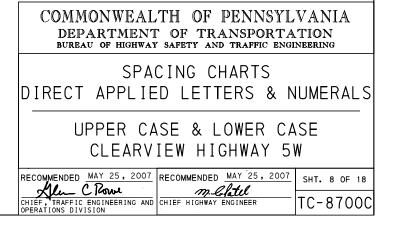
13.3	9.8	9.0 9.7 9.8 9.7 10.2 10.6	3.1	9.6 9.2 9.2 9.2 9.2 9.7 9.0 9.0		5.9	8.5	6.5	10.1	15.9	10.2	10.4	8.1
	a	cdegoq	i	bhklmnpru	f	j	s	t	v	w	×	У	z
12.5 A	15.4	15.7	16.0	16.2	15.2	13.3	15.2	14.9	14.6	14.8	14.5	14.6	15.3
10.1 B	13.8	14.1	14.4	14.6	13.6	11.7	13.6	13.3	13.0	13.2	12.9	13.0	13.7
10.9 C	14.1	14.4	14.6	14.9	13.8	12.0	13.8	13.6	13.3	13.4	13.2	13.3	14.0
10.8 D	14.6	14.9	15.2	15.4	14.4	12.5	14.4	14.1	13.8	14.0	13.7	13.8	14.5
8.5 E	12.1	12.4	12.6	12.9	11.8	10.0	11.8	11.6	11.3	11.4	11.2	11.3	12.0
8.1 F	11.6	11.8	12.1	12.4	11.3	9.4	11.3	11.0	10.8	10.9	10.6	10.8	11.4
11.6 G	15.4	15.7	16.0	16.2	15.2	13.3	15.2	14.9	14.6	14.8	14.5	14.6	15.3
10.2 H	14.6	14.9	15.2	15.4	14.4	12.5	14.4	14.1	13.8	14.0	13.7	13.8	14.5
2.7 I	7.0	7.3	7.6	7.8	6.8	4.9	6.8	6.5	6.3	6.4	6.1	6.3	6.9
7.4 J	11.8	12.1	12.4	12.6	11.6	9.7	11.6	11.3	11.0	11.2	10.9	11.0	11.7
10.4 K	13.3	13.6	13.8	14.1	13.0	11.2	13.0	12.8	12.5	12.6	12.4	12.5	13.2
7.8 L	11.2	11.4	11.7	12.0	10.9	9.0	10.9	10.6	10.4	10.5	10.2	10.4	11.0
12.2 M	16.6	16.9	17.2	17.4	16.4	14.5	16.4	16.1	15.8	16.0	15.7	15.8	16.5
11.0 N	15.4	15.7	16.0	16.2	15.2	13.3	15.2	14.9	14.6	14.8	14.5	14.6	15.3
12.4 0	16.2	16.5	16.8	17.0	16.0	14.1	16.0	15.7	15.4	15.6	15.3	15.4	16.1
9.7 P	13.0	13.3	13.6	13.8	12.8	10.9	12.8	12.5	12.2	12.4	12.1	12.2	12.9
12.4 Q	16.2	16.5	16.8	17.0	16.0	14.1	16.0	15.7	15.4	15.6	15.3	15.4	16.1
10.0 R	13.7	14.0	14.2	14.5	13.4	11.6	13.4	13.2	12.9	13.0	12.8	12.9	13.6
9.6 S	13.0	13.3	13.6	13.8	12.8	10.9	12.8	12.5	12.2	12.4	12.1	12.2	12.9
9.6 T	12.6	12.9	13.2	13.4	12.4	10.5	12.4	12.1	11.8	12.0	11.7	11.8	12.5
10.4 U	14.8	15.0	15.3	15.6	14.5	12.6	14.5	14.2	14.0	14.1	13.8	14.0	14.6
11.3 V	14.2	14.5	14.8	15.0	14.0	12.1	14.0	13.7	13.4	13.6	13.3	13.4	14.1
17.7 W	20.7	21.0	21.3	21.5	20.5	18.6	20.5	20.2	20.0	20.1	19.8	20.0	20.6
11.4 X	14.2	14.5	14.8	15.0	14.0	12.1	14.0	13.7	13.4	13.6	13.3	13.4	14.1
11.7 Y	14.4	14.6	14.9	15.2	14.1	12.2	14.1	13.8	13.6	13.7	13.4	13.6	14.2
9.6 Z	13.0	13.3	13.6	13.8	12.8	10.9	12.8	12.5	12.2	12.4	12.1	12.2	12.9

	80	<u> 8 - 8 - 6 8</u>	2	" UPPER CASE ଜାତାସ୍ାତାମ୍ସ୍ର ୭	~	0	N		N	9	m	2	œ
16	11.	10. 11. 12. 12.	Υ	11. 11. 5. 11. 11. 11. 7. 7.	7.	7.0	10.	7.8	12.	18.	12.	12.	9.6
	a	cdegoq	i	bhklmnpru	f	j	s	†	V	w	×	У	Z
15.0 A	18.6	18.9	19.2	19.5	18.2	16.0	18.2	17.9	17.6	17.8	17.4	17.6	18.4
12.2 B 13.1 C	16.6	17.0 17.3	<u>17.3</u> 17.6	17.6	16.3	14.1	16.3	16.0 16.3	15.7 16.0	15.8	15.5	15.7	16.5
13.0 D	17.6	17.9	18.2	18.6	17.3	15.0	17.3	17.0	16.6			16.6	17.4
0.2 E	14.6	14.9	15.2	15.5	14.2	12.0	14.2	13.9	13.6				14.4
9.8 F	13.9	14.2	14.6	14.9	13.6	11.4	13.6	13.3	13.0	13.1	12.8		13.8
3.9 G 2.3 H	18.6	18.9	19.2	19.5 18.6	<u>18.2</u> 17.3	16.0	18.2	17.9		17.8			18.4
2.3 H 3.2 I	8.5	8.8	9.1	9.4	8.2	5.9	8.2	7.8	7.5	7.7	7.4	7.5	8.3
9.0 J	14.2	14.6	14.9	15.2	13.9	11.7	13.9	13.6	13.3	13.4	13.1	13.3	14.1
2.5 K	16.0	16.3	16.6	17.0	15.7	13.4	15.7	15.4	15.0	15.2	14.9	15.0	15.8
9.4 L	13.4	13.8	14.1	14.4	13.1	10.9	13.1	12.8	12.5	12.6			13.3
4.7 M 3.3 N	20.0	20.3 18.9	20.6	21.0 19.5	<u>19.7</u> 18.2	17.4	19.7 18.2	19.4			18.9	19.0	19.8
4.9 0	19.5	19.8	20.2	20.5	19.2		19.2	18.9				18.6	19.4
1.7 P	15.7	16.0	16.3	16.6	15.4	13.1	15.4	15.0	14.7	14.9	14.6	14.7	15.5
4.9 Q	19.5	19.8	20.2	20.5	19.2		19.2	18.9	18.6				19.4
2.0 R	16.5	16.8	17.1	17.4	16.2	13.9	16.2	15.8	15.5	15.7		15.5	16.3
1.5 S 1.5 T	15.7	16.0 15.5	15.8	16.6 16.2	15.4 14.9	13.1	15.4	14.6	14.7	14.9			15.5
2.5 U	17.8	18.1	18.4	18.7	17.4	15.2	17.4	17.1	16.8	17.0		16.8	17.6
3.6 V	17.1	17.4	17.8	18.1	16.8	14.6	16.8	16.5	16.2	16.3	16.0	16.2	17.0
1.3 W	25.0	25.3	25.6	25.9	24.6		24.6			24.2		24.0	24.8
3.8 X 4.1 Y	17.1	17.4 17.6	17.8 17.9	18.1 18.2	16.8 17.0		16.8 17.0		16.2		16.0		17.C
			11. 3	10.2	11.0	14.1							1 (• )
	15.7	16.0	16.3 1(	16.6 0.6" UPPER CA	15.4 SE †	13.1	15.4 wer (		14.7		14.6	14.7	15.5
1.5 Z	00	16.0 25/ <u>38/3</u> 5	1(	).6" UPPER CA	SE †	13.1 0   0\ ~	wer (	case	-	14.9 <sup>m</sup> .2	N	M	5
	15.7	16.0	1 (	D.6" UPPER CA	SE †	13.1 0   0\	wer (	case	14.7 	٣.			
1.5 Z	8.2	16.0 7.7 8.2 8.5 8.5	2.4	D.6" UPPER CA	SE †	13.1 0  0) 	wer ( 8.9	case	8.1	12.3	× 8. 2	8.3	z 6.5
1.5 Z 10.6 0.0 A 8.1 B	∞. ∠ 12.3 11.0	16.0 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 ( * . i 12.7 11.4	D. 6 " UPPER CA <u> <u> <u> </u> <u> </u></u></u>	SE †  f 12.1 10.8	13.1 0 0 0 2 4 3 3	wer ( % 9 12,1 10,8	CDSE CDSE	 œ V 11.7 10.4	ю. 21 w 11.8 10.5	∼ ∞ × 11.6 10.3	м во У 11.7 10.4	ده ق ت 12.2 10.9
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1.5 Z 10.6 0.0 A 8.1 B 8.7 C 8.6 D 6.8 E 6.5 F 9.2 G 8.2 H 2.1 I 5.9 J 8.3 K 6.3 K 6.3 K 9.8 M 9.8 M 9.9 Q 8.0 R 7.7 P 9.9 Q 8.0 R 7.7 P 9.9 Q 8.0 R 7.7 C 1.7 P 9.9 Q 8.0 R 8.0 R 1.7 P 1.7	0         12.3         11.0         11.2         11.7         9.6         9.2         12.3         11.7         9.6         9.2         12.3         11.7         9.6         9.4         10.6         9.4         10.4         12.9         10.4         12.9         10.4         12.9         10.4         11.8	16.0 $16.0$ $16.0$ $16.0$ $16.0$ $16.0$ $16.0$ $10.6$ $10.8$ $10.6$ $10.6$ $10.3$ $12.0$ $11.6$	1 (1	D. 6 " UPPER CA $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	SE † - - - - - - - - - - - - -	13.1 0 0 100 100 100 100 100 100 10	wer of s 12.1 10.8 11.0 11.4 9.4 9.2 10.4 9.2 10.4 9.2 10.4 9.2 10.7 13.0 12.1 1.0 2 9.9 11.6 1 10.2 9.9 11.6 1 1.1 1 10.2 10.2 10.2 10.2 10.2 10.2 1	COSE		M           N	× 11.6 10.3 10.5 10.9 8.9 8.5 11.6 10.9 8.7 9.9 8.7 9.9 8.7 11.6 12.5 11.6 12.2 9.6 12.2 9.6 9.3 11.0 10.5 10.5 10.5 10.5 10.9 12.5 10.5 10.5 10.5 10.5 10.9 10.5 10.5 10.9 10.5 10.9 10.5 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.9 10.9 10.5 10.9 10.9 10.5 10.9 10.5 10.9 10.5 10.9 10.9 10.9 10.9 10.9 10.5 10.9 10.9 10.9 10.9 10.9 10.5 11.6 10.9 12.5 11.6 12.2 10.6 10.2 10.5 11.6 12.2 10.5 1	m           w           y           11.7           10.6           11.0           8.6           11.7           11.0           8.6           11.7           12.6           11.7           12.3           9.8           12.3           9.8           9.4           11.1           10.7	۲ 12.2 10.9 11.1 11.6 9.5 9.3 10.5 9.3 10.5 8.8 13.1 12.2 12.8 10.3 12.8 10.3 10.3 10.0 11.7 12.2 11.6 10.2 11.1 12.2 11.6 10.2 11.1 12.2 11.6 10.2 11.1 11.6 10.2 11.1 11.6 10.2 11.1 11.6 10.2 11.1 11.6 10.2 11.1 11.6 10.2 11.1 11.6 10.2 11.1 11.6 10.5
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1.5 Z 10.6 0.0 A 8.1 B 8.7 C 8.6 D 6.8 E 6.5 F 9.2 G 8.2 H 2.1 I 5.9 J 8.3 K 6.3 K 6.3 K 9.8 M 9.8 M 9.9 Q 8.0 R 7.7 P 9.9 Q 8.0 R 7.7 P 9.9 Q 8.0 R 7.7 C 1.7 P 9.9 Q 8.0 R 8.0 R 1.7 P 1.7	0         12.3         11.0         11.2         11.7         9.6         9.2         12.3         11.7         9.6         9.2         12.3         11.7         9.6         9.4         10.6         9.4         10.4         12.9         10.4         12.9         10.4         12.9         10.4         11.8	16.0 $16.0$ $16.0$ $16.0$ $16.0$ $16.0$ $16.0$ $10.6$ $10.8$ $10.6$ $10.6$ $10.3$ $12.0$ $11.6$	1 (1	D. 6 " UPPER CA $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	SE † - - - - - - - - - - - - -	13.1 0 0 100 100 100 100 100 100 10	wer of s 12.1 10.8 11.0 11.4 9.4 9.2 10.4 9.2 10.4 9.2 10.4 9.2 10.7 13.0 12.1 1.0 2 9.9 11.6 1 10.2 9.9 11.6 1 1.1 1 10.2 10.2 10.2 10.2 10.2 10.2 1	COSE		m N N N N N N N N N N N N N	N	M m y 111.7 10.4 10.6 11.0 9.0 8.6 11.7 12.6 8.3 12.6 11.7 12.3 9.8 9.4 11.1 10.3 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.4 11.1 10.5 9.5 9.4 11.1 10.5 9.5 9.4 11.1 10.5 9.5 9.5 9.5 9.5 9.5 9.5 10.5	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c

					8" UPPER CASE	to to	lowe	er ca	se					
8		5.9	5.4 5.8 5.8 6.2 6.4	•	5.8 5.5 5.7 5.8 5.4 7.4	3.8	3.5	5.1	3.9	6. 1	9 <b>.</b> 3	6.2	6.2	4.9
		a	cdegoq	t	bhklmnpru	f	j	s	t	v	w	×	У	Z
7.5	Α	9.3	9.4	9.6	9.8	9.1	8.0	9.1	9.0	8.8	8.9	8.7	8.8	9.2
6.1	В	8.3	8.5	8.6	8.8	8.2	7.0	8.2	8.0	7.8	7.9	7.8	7.8	8.2
6.6	С	8.5	8.6	8.8	9.0	8.3	7.2	8.3	8.2	8.0	8.1	7.9	8.0	8.4
6.5	D	8.8	9.0	9.1	9.3	8.6	7.5	8.6	8.5	8.3	8.4	8.2	8.3	8.7
5.1	E	7.3	7.4	7.6	7.8	7.1	6.0	7.1	7.0	6.8	6.9	6.7	6.8	7.2
4.9	F	7.0	7.1	7.3	7.4	6.8	5.7	6.8	6.6	6.5	6.6	6.4	6.5	6.9
7.0	G	9.3	9.4	9.6	9.8	9.1	8.0	9.1	9.0	8.8	8.9	8.7	8.8	9.2
6.2	Н	8.8	9.0	9.1	9.3	8.6	7.5	8.6	8.5	8.3	8.4	8.2	8.3	8.7
1.6	Ι	4.2	4.4	4.6	4.7	4.1	3.0	4.1	3.9	3.8	3.8	3.7	3.8	4.2
4.5	J	7.1	7.3	7.4	7.6	7.0	5.8	7.0	6.8	6.6	6.7	6.6	6.6	7.0
6.2	Κ	8.0	8.2	8.3	8.5	7.8	6.7	7.8	7.7	7.5	7.6	7.4	7.5	7.9
4.7	L	6.7	6.9	7.0	7.2	6.6	5.4	6.6	6.4	6.2	6.3	6.2	6.2	6.6
7.4	М	10.0	10.2	10.3	10.5	9.8	8.7	9.8	9.7	9.5	9.6	9.4	9.5	9.9
6.6	Ν	9.3	9.4	9.6	9.8	9.1	8.0	9.1	9.0	8.8	8.9	8.7	8.8	9.2
7.4	0	9.8	9.9	10.1	10.2	9.6	8.5	9.6	9.4	9.3	9.4	9.2	9.3	9.7
5.8	Р	7.8	8.0	8.2	8.3	7.7	6.6	7.7	7.5	7.4	7.4	7.3	7.4	7.8
7.4	Q	9.8	9.9	10.1	10.2	9.6	8.5	9.6	9.4	9.3	9.4	9.2	9.3	9.7
6.0	R	8.2	8.4	8.6	8.7	8.1	7.0	8.1	7.9	7.8	7.8	7.7	7.8	8.2
5.8	S	7.8	8.0	8.2	8.3	7.7	6.6	7.7	7.5	7.4	7.4	7.3	7.4	7.8
5.8	T	7.6	7.8	7.9	8.1	7.4	6.3	7.4	7.3	7.1	7.2	7.0	7.1	7.5
6.2	U	8.9	9.0	9.2	9.4	8.7	7.6	8.7	8.6	8.4	8.5	8.3	8.4	8.8
6.8	<u>v</u>	8.6	8.7	8.9	9.0	8.4	7.3	8.4	8.2	8.1	8.2	8.0	8.1	8.5
10.6	W	12.5	12.6	12.8	13.0	12.3	11.2	12.3	12.2	12.0	12.1	11.9	12.0	12.4
6.9	X	8.6	8.7	8.9	9.0	8.4	7.3	8.4	8.2	8.1	8.2	8.0	8.1	8.5
7.0	Y	8.6	8.8	9.0	9.1	8.5	7.4	8.5	8.3	8.2	8.2	8.1	8.2	8.6
5.8	Ζ	7.8	8.0	8.2	8.3	7.7	6.6	7.7	7.5	7.4	7.4	7.3	7.4	7.8

#### NOTE: ALL DIMENSIONS ARE IN INCHES.

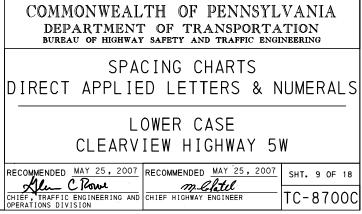
## ENGLISH UNITS



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		cegoq		i	bhklmnpr				v w	/ ×	У	z				ceg		_		bhklmn			i s	
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13.6 c	18.2	18.6	18.6	19.0	19.4	17.8 15.	0 17.8 1	17.4 17	.0 17.	.2 16.8	3 17.0	18.0	10.	9 c	14.6	14.9	9 14	.9 1	5.2	15.5	14	1.2 12	.0 14.	• 2
14.6 d 14.8 e		21.4 20.8		21.8	22.2	20.6 17.							11.	8 e	16.8	<u>17.</u> 16.6		.11 .61		17.8 17.3			.2 16. .8 16.	
9.6 f	14.2	14.6	14.6	15.0	15.4	13.8 11.	0 13.8 1	13.4 13	i.0 13.	.2 12.8	3 13.0	14.0	7.7	7 f	11.4	11.7	7 11	.7 1	2.0	12.3	11	.0 8.	8 11.	.0
14.6 g 13.8 h		21.4		21.8	22.2	20.6 17.									16.8	<u>17.</u> 16.5		<u>1</u> 51		17.8			.2 16. .6 15.	
4.6 i	10.6	11.0		11.4	11.8	10.2 7.4							3.7	7 i	8.5	8.8	8.	8	9.1	9.4 12.8	8.	.2 5.	98.	2
8.8 j 14.2 k		15.2 18.6		15.6	16.0 19.4	14.4 11.							7.0		11.8	12.2		.2 1 .9 1		15.5			<u>3</u> 11. .0 14.	
6.4   22.6 m		11.6 29.4	11.6	12.0	12.4 30.2	10.8 8.0									9.0 23.2	9.3 23.5		3 .5 2		9.9 24.2		.6 6.	4 8. .6 22.	6
13.8 n	20.2	20.6	20.6	21.0	21.4	19.8 17.	0 19.8 1	19.4 19	0.0 19.	.2 18.8	3 19.0	20.0	11.	0 n	16.2	16.5	5 16	.5 1	6.8	17.1	15	5.8 13	.6 15.	. 8
15.4 o 14.6 p		21.4		21.8	22.2	20.6 17.							12.	<u>3</u> 0	16.8	<u>17.</u> 16.5		<u>1</u> 51		17.8			.2 16. .6 15.	
16.0 q	21.0	21.4	21.4	21.8	22.2	20.6 17.	8 20.6 2	20.2 19	.8 20.	.0 19.6	5 19.8	20.8	12.	8 q	16.8	17.	1   17	.1 1	17.4	17.8	16	5.5 14	.2 16.	• 5
9.2 r 12.8 s		14.2		14.6	15.0 19.2	13.4 10.							7.4	1 r 2 s	11.0	11.4		.4 1 .7 1	11.7	12.0			5 10. .8 14.	
9.8 t	14.6	15.0	15.0	15.4	15.8	14.2 11.	4 14.2 1	13.8 13	3.4 13.	.6 13.2	2 13.4	14.4	7.8	3 †	11.7	12.0	) 12	.0 1	2.3	12.6	11	.4 9.	1 11.	. 4
13.6 u 15.2 v		20.4		20.8	21.2 20.4	19.6 16. 18.8 16.							10.	<u>9 u</u> 2 v	16.0	16.3		.3 1 .7 1	6.6	17.0 16.3			.4 15. .8 15.	
23.2 w	27.4	27.8	27.8	28.2	28.6	27.0 24.	2 27.0 2	26.6 26	5.2 26.	.4 26.0	26.2	27.2	18.	6 w	21.9	22.2	2 22	.2 2	22.6	22.9	21	.6 19	.4 21.	. 6
15.4 x 15.6 y		19.6 20.0		20.0	20.4 20.8	18.8 16.							12.	<u>3 x</u> 5 y	15.4 15.7	15.		• /   • 0   1	6.0	16.3 16.6			<u>.8 15.</u> .1 15.	
12.2 z				18.0	18.4	16.8 14.									13.8	14.		.1		14.7			.2 13.	
					13.3" lower		Lower	0.000												10.6" lov		co + (		_
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13.3	9 <b>.</b> 8	9.0 9.8 9.7 10.2 10.6	9.7	m	9.6 9.2 9.2 9.2 9.2 9.7 9.7 6.1	5.9 5.9	8.5	6.5			10.	8	10	. 6	7.8	7.2			2.7	7.6 7.5 7.5 3.4 12.0 7.3		-   r		
	a	cegoq		i	bhklmnpr		s		v w	/ ×	У	z			a	ceg		1		bhklmn		f,	i s	_
9.8 a		13.6		13.8	14.1	13.0 11.									10.6	10.8	3 10		0.9	11.2			9 10.	
9.6 b 9.0 c	13.3	13.6		13.8	14.1	13.0 11.							7.6		10.6 9.6	<u>10.8</u> 9.9		<u>8</u> 1 91		11.2		).4 8. .4 8.	9 10. 0 9.	
9.7 d	14.0	14.2	14.2	14.5	14.8	13.7 11.	8 13.7 1	13.4 13	3.2 13.	.3 13.0	) 13.2	13.8	7.7	7 d	11.1	11.3	3 11	.3 1	11.4	11.8	10	).99.	4 10.	• 5
9.8 e 6.4 f	13.6	13.8 9.7		14.1	14.4	<u>13.3 11.</u> 9.2 7.3						13.4	7.8		10.8	<u>11.(</u> 7.7		<u>• 0                                    </u>		11.4		).6 9. .3 5.		
9.7 g	14.0	14.2	14.2	14.5	14.8	13.7 11.	8 13.7 1	13.4 13	3.2 13.	.3 13.0	) 13.2	13.8	7.7	7 g	11.1	11.3	3 11	.3 1	11.4	11.8	10	).99.	4 10.	. 9
9.2 h 3.1 i	13.4	13.7 7.3		14.0	14.2		3 13.2 1 9 6.8			<u>.8 12.5</u> 4 6.1		13.3	7.3		10.7	<u>10.9</u> 5.8		<u>.91</u> 8		11.3 6.3		).59. .43.	0 10. 9 5.	4
5.9 j	9.8	10.1	10.1	10.4	10.6	9.6 7.	7 9.6	9.3 9.	.0 9.	2 8.9	9.0	9.7	4.	7 j	7.8	8.1	8.	. 1	8.2	8.5	7.	.6 6.	1 7.	6
4.3	12.1	12.4		12.6	12.9	11.8 10.						12.0	3.4	4 1	9.6 5.9	<u>9.9</u> 6.1		9 1		10.3 6.6	5.	<u>.48.</u> .74.	0 9. 2 5. .7 15.	47
15.0 m 9.2 n		19.6 13.7	19.6	19.8	20.1	19.0 17. 13.2 11.	2 19.0 1 3 13.2 1			.6 18.4 .8 12.5					15.4	15.6		.6 1 .9 1	5.6	16.0 11.3	15	5.2 13 ).5 9.	.7 15. 0 10.	, 2
10.2 o	14.0	14.2	14.2	14.5	14.8	13.7 11.	8 13.7 1	3.4 13	3.2 13.	.3 13.0	) 13.2	13.8	8.2	2 0	11.1	11.3	3 11	.3 1	11.4	11.8	10	).99.	4 10.	, 9
9.7 p 10.6 q	13.4	13.7 14.2		14.0	14.2	13.2 11.									10.7	10.9		.9 1 .3 1	1.0	11.3		).59. ).99.	0 10.	
6.1 r	9.2	9.4	9.4	9.7	10.0	8.9 7.0	8.9	8.6 8	.4 8.	5 8.2	8.4	9.0	4.9	) r	7.3	7.5	7.	5	7.7	8.0	7	.1 5.	6 7.	
8.5 s 6.5 t	12.0 9.7	12.2		12.5	12.8	9.4 7.6	3 11.7 1 5 9.4			<u>.3 11.0</u> 0 8.8		9.6	6.8		9.5 7.7	<u>9.8</u> 8.0		8		10.2			8 9. 0 7.	$\frac{3}{5}$
9.0 u	13.3	13.6	13.6	13.8	14.1	13.0 11.	2 13.0 1	12.8 12	2.5 12.	.6 12.4	1 12.5	13.2	7.2	2 u	10.6	10.8	3 10	.8 1	0.9	11.2	10	.4 8.	9 10.	• 4
10.1 v 15.4 w				13.3		12.5 10. 18.0 16.								-	10.2	10.4		.4 1 .7 1	10.5	10.8			5 10. .8 14.	_
10.2 X	12.8	13.0	13.0	13.3	13.6	12.5 10.	6 12.5 1	12.2 12	2.0 12	.1 11.8	3 12.0	12.6	8.2	2 X	10.2	10.4	1 10	.4 1	0.5	10.8	10	0.0 8.	5 10 <b>.</b> 7 10.	, (
10.4 y 8.1 z	13.0	13.3		13.6		12.8 10.							8.3	5 y 5 z	10.4 9.1	<u>10.6</u> 9.3		<u>.6 1</u> 3	10.7 9.4	11.0 9.8	8.	).2 8. .9 7.	<u>/ 10.</u> 4 8.	<u>- 2</u> 9
																							I	
					8" lower o		ower co	ase																
•	б. •	6.2894	80	1.8	5.8 5.5 5.5 5.8 3.7 3.7 3.7	- 2 B	5.1	б -	- r		6.2	4.9												
8		r e d o d			bhklmnpr	u m m	-																	
		cleigioid 8.2		i 8.3	<u>                                     </u>		s 7 7.8		v w		у 7.5	z 7.9												
590	8.0	8.2	8.2	8.3	8.5	7.8 6.	7 7.8	7.7 7.	.5 7.	6 7.4	7.5	7.9												
5.9 a 5.8 b		7.4		7.6	7.8		0 7.1		.8 6.	9 6.7	6.8	7.2												
5.8 b 5.4 c			8.3	8.5	8.6	8.2 7. 8.0 6.9	8.0	7.8 7	.7 7.	8 7.6	7.7	8.1												
5.8 b 5.4 c 5.8 d 5.9 e	8.4 8.2	8.3		6.0	6.2 8.9	5.5 4.4	1 5.5 1 1 8.2			3 5.1 0 7.8		5.6												
5.8       b         5.4       c         5.8       d         5.9       e         3.8       f	8.4 8.2 5.7	8.3 5.8		8.7				7.8 7.	.6 7.	7 7.5	7.6	8.0												
5.8       b         5.4       c         5.8       d         5.9       e         3.8       f         5.8       g         5.5       h	8.4 8.2 5.7 8.4 8.1	8.3 5.8 8.6 8.2	8.6 8.2	8.7	8.6	7.9 6.8	3 7.9		813	8 3.7	3.8													
5.8       b         5.4       c         5.8       d         5.9       e         3.8       f         5.8       g         5.5       h         1.8       i	8.4 8.2 5.7 8.4 8.1 4.2	8.3 5.8 8.6 8.2 4.4	8.6 8.2 4.4	8.4 4.6	8.6 4.7	7.9 6.8 4.1 3.0	0 4.1	3.9 3. 5.6 5	.4 5	5 5.4	5.4													
5.8       b         5.4       c         5.8       d         5.9       e         3.8       f         5.8       g         5.5       h         1.8       I         3.5       j         5.7       K	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3	8.3 5.8 8.6 8.2 4.4 6.1 7.4	8.6 8.2 4.4 6.1 7.4	8.4 4.6 6.2 7.6	8.6 4.7 6.4 7.8	7.9         6.8           4.1         3.0           5.8         4.6           7.1         6.0	0     4.1       5     5.8       0     7.1	5.6 5 7.0 6	.4 5. .8 6.	5 5.4 9 6.7		7.2												
5.8       b         5.4       c         5.8       d         5.9       e         3.8       f         5.5       h         1.8       i         3.5       j         5.7       K         2.6       I	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6	8.6 8.2 4.4 6.1 7.4 4.6	8.4 4.6 6.2 7.6 4.8	8.6 4.7 6.4 7.8 5.0	7.9         6.8           4.1         3.0           5.8         4.6           7.1         6.0           4.3         3.2	0     4.1       6     5.8       0     7.1       2     4.3	5.6 5. 7.0 6. 4.2 4.	.4 5. .8 6. .0 4.	5 5.4 9 6.7 1 3.9	4.0	7.2 4.4												
5.8       b         5.4       c         5.8       d         5.9       e         3.8       f         5.5       h         1.8       i         3.5       j         5.7       K         2.6       I         9.0       m         5.5       n	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5 11.6 8.1	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2	8.4 4.6 6.2 7.6 4.8 11.9 8.4	8.6 4.7 6.4 7.8 5.0 12.1 8.6	7.9       6.8         4.1       3.0         5.8       4.6         7.1       6.0         4.3       3.2         11.4       10.         7.9       6.8	0     4.1       5     5.8       0     7.1       2     4.3       3     11.4       3     7.9	5.6 5 7.0 6 4.2 4 11.3 11 7.8 7	.4 5. .8 6. .0 4. I.1 11. .6 7.	5 5.4 9 6.7 1 3.9 .2 11.0 7 7.5	4.0 0 11.1 7.6	7.2 4.4 11.5 8.0												
5.8       b         5.4       c         5.8       d         5.9       e         3.8       f         5.5       h         1.8       i         3.5       j         5.7       K         2.6       H         9.0       m         5.5       n         6.2       0	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5 11.6 8.1 8.4	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6	8.4 4.6 6.2 7.6 4.8 11.9 8.4 8.7	8.6 4.7 6.4 7.8 5.0 12.1 8.6 8.9	7.9         6.8           4.1         3.0           5.8         4.6           7.1         6.0           4.3         3.2           11.4         10.           7.9         6.8           8.2         7.	0     4.1       6     5.8       0     7.1       2     4.3       3     11.4       1     8.2	5.6 5. 7.0 6. 4.2 4. 11.3 11 7.8 7. 8.1 7.	.4 5. .8 6. .0 4. I.1 11. .6 7. .9 8.	5 5.4 9 6.7 1 3.9 .2 11.0 7 7.5 0 7.8	4.0 0 11.1 7.6 7.9	7.2 4.4 11.5 8.0 8.3												
5.8 b 5.4 c 5.9 e 3.8 f 5.9 e 3.8 f 5.5 h 1.8 i 3.5 j 5.7 k 2.0 m 5.5 n 6.2 0 5.8 p 6.4 q	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5 11.6 8.1 8.4 8.1 8.4	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 8.2 8.6	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6	8.4 4.6 6.2 7.6 4.8 11.9 8.4 8.7 8.4 8.7	8.6 4.7 6.4 7.8 5.0 12.1 8.6 8.9 8.6 8.9	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0     4.1       5     5.8       0     7.1       2     4.3       3     11.4       3     7.9       1     8.2       3     7.9       1     8.2       3     7.9       1     8.2	5.6       5.         7.0       6.         4.2       4.         1.3       11         7.8       7.         8.1       7.         8.1       7.         8.1       7.         8.1       7.         8.1       7.	. 4 5. . 8 6. . 0 4. 1. 1 11. . 6 7. . 9 8. . 6 7. . 9 8.	5 5.4 9 6.7 1 3.9 2 11.0 7 7.5 0 7.8 7 7.5 0 7.8 7 .5	4.0 11.1 7.6 7.9 7.6 7.9	7.2 4.4 11.5 8.0 8.3 8.0 8.3												
5.8 b 5.4 c 5.8 d 5.9 e 3.8 f 5.5 h 1.8 i 3.5 j 5.7 k 2.6 l 9.0 m 5.5 n 6.2 0 5.8 p 6.4 q 3.7 r	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5 11.6 8.1 8.4 8.1 8.4 5.5	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 8.2 8.6 5.7	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 5.7	8.4 4.6 6.2 7.6 4.8 11.9 8.4 8.7 8.4 8.7 5.8	8.6 4.7 6.4 7.8 5.0 12.1 8.6 8.9 8.6 8.9 6.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0       4.1         5       5.8         0       7.1         2       4.3         3       11.4         3       7.9         1       8.2         3       7.9         1       8.2         2       5.4	5.6       5.         7.0       6.         4.2       4.         11.3       11         7.8       7.         8.1       7.         7.8       7.         8.1       7.         5.2       5.	. 4 5. . 8 6. . 0 4. 1. 1 11. . 6 7. . 9 8. . 6 7. . 9 8. . 0 5.	5         5.4           9         6.7           1         3.9           .2         11.0           7         7.5           0         7.8           7         7.5           0         7.8           1         5.0	4.0 11.1 7.6 7.9 7.6 7.9 5.0	7.2 4.4 11.5 8.0 8.3 8.0 8.3 5.4												
5.8         b           5.4         c           5.8         d           5.8         d           5.8         g           5.8         g           5.5         h           5.5         h           5.5         h           5.5         h           3.5         j           5.5         h           9.0         m           6.2         0           5.8         P           6.4         P           6.4         S           5.1         s           3.9         t	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5 11.6 8.1 8.4 8.1 8.4 8.1 8.4 5.5 7.2 5.8	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.6 8.2 8.6 5.7 7.4 6.0	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 5.7 7.4 6.0	8.4 4.6 6.2 7.6 4.8 11.9 8.4 8.7 8.4 8.7 5.8 7.5 6.2	8.6 4.7 6.4 7.8 5.0 12.1 8.6 8.9 8.6 8.9 6.0 7.7 6.3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0 & 4.1 \\ 6 & 5.8 \\ 0 & 7.1 \\ 2 & 4.3 \\ 3 & 11.4 \\ 1 \\ 3 & 7.9 \\ 1 & 8.2 \\ 3 & 7.9 \\ 1 & 8.2 \\ 2 & 5.4 \\ 0 & 7.0 \\ 6 & 5.7 \end{array}$	5.6       5.         7.0       6.         4.2       4.         11.3       11         7.8       7.         8.1       7.         8.1       7.         5.2       5.         6.9       6.         5.5       5.	. 4 5. . 8 6. . 0 4. . 1 11. . 6 7. . 9 8. . 6 7. . 9 8. . 0 5. . 7 6. . 4 5.	5       5.4         9       6.7         1       3.9         .2       11.0         7       7.5         0       7.8         7       7.5         0       7.8         1       5.0         8       6.6         4       5.3	4.0 11.1 7.6 7.9 7.6 7.9 5.0 6.7 5.4	7.2 4.4 11.5 8.0 8.3 8.0 8.3 5.4 7.1 5.8												
5.8 b 5.4 c 5.8 d 5.8 d 5.8 f 5.8 g 5.8 g 5.5 h 1.8 i 3.5 j 5.7 k 2.6 l 9.0 m 5.5 7 k 2.6 l 9.0 m 5.5 v 6.2 0 5.8 p 6.4 q 3.7 r 5.1 s 3.9 t 5.4 u	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5 11.6 8.1 8.4 8.1 8.4 5.5 7.2 5.8 8.0	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 5.7 7.4 6.0 8.2	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 5.7 7.4 6.0 8.2	8.4 4.6 6.2 7.6 4.8 11.9 8.4 8.7 8.4 8.7 5.8 7.5 6.2 8.3	8.6 4.7 6.4 7.8 5.0 12.1 8.6 8.9 8.6 8.9 6.0 7.7 6.3 8.5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0 & 4.1 \\ 5 & 5.8 \\ 0 & 7.1 \\ 2 & 4.3 \\ 3 & 11.4 \\ 1 \\ 3 & 7.9 \\ 1 & 8.2 \\ 3 \\ 7.9 \\ 1 & 8.2 \\ 2 & 5.4 \\ 0 & 7.0 \\ 5 & 5.7 \\ 7 & 7.8 \end{array}$	5.6         5           7.0         6           4.2         4           1.3         1           7.8         7           8.1         7           5.2         5           6.9         6           5.5         5           7.7         7	. 4 5. . 8 6. . 0 4. . 1 11. . 6 7. . 9 8. . 6 7. . 9 8. . 0 5. . 7 6. . 4 5. . 5 7.	5         5.4           9         6.7           1         3.9           .2         11.0           7         7.5           0         7.8           7         7.5           0         7.8           1         5.0           8         6.6           4         5.3           6         7.4	4.0 11.1 7.6 7.9 7.6 7.9 5.0 6.7 5.4 7.5	7.2         4.4         11.5         8.0         8.3         8.0         8.3         5.4         7.1         5.8         7.9												
5.8         b           5.8         d           5.8         d           5.8         d           5.8         g           5.8         g           5.8         g           5.8         g           5.5         h           1.8         i           3.5         j           5.7         K           2.6         I           9.0         m           5.5         N           6.2         0           5.8         P           6.4         P           5.1         s           5.1         s           5.3         P           5.4         U           6.1         V           9.3         W	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 11.6 8.1 8.4 8.1 8.4 8.1 8.4 5.5 7.2 5.8 8.0 7.7 11.0	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.6 8.6 5.7 7.4 6.0 8.2 7.8 11.1	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 5.7 7.4 6.0 8.2 7.8 11.1	8.4 4.6 6.2 7.6 4.8 11.9 8.4 8.7 8.4 8.7 5.8 7.5 6.2 8.3 8.0 11.3	8.6 4.7 6.4 7.8 5.0 12.1 8.6 8.9 8.6 8.9 6.0 7.7 6.3 8.5 8.2 11.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5.6         5           7.0         6           4.2         4           1.3         11           7.8         7           8.1         7           5.2         5           6.9         6           5.5         5           7.7         7           7.4         7           0.6         10	.4 5. .8 6. .0 4. .1 11. .6 7. .9 8. .6 7. .9 8. .0 5. .7 6. .4 5. .5 7. .2 7. .0. 5 10.	5         5.4           9         6.7           1         3.9           2         11.0           7         7.5           0         7.8           7         7.5           0         7.8           1         5.0           8         6.6           4         5.3           6         7.4           3         7.1           .6         10.4	4.0 11.1 7.6 7.9 7.6 7.9 5.0 6.7 5.4 7.5 7.2 4.10.5	7.2         4.4         11.5         8.0         8.3         5.4         7.1         5.8         7.9         7.6         10.9												
5.8         b           5.4         c           5.8         d           5.9         e           3.8         f           5.5         h           1.8         i           3.5.5         h           1.8         i           5.5         h           5.5         h           5.5         h           5.5         h           9.0         m           5.5         h           9.0         m           5.5         h           9.0         m           5.5         h           9.0         m           5.5         n           6.2         0           5.4         q           3.7         r           5.1         s           3.9         t           5.4         v	8.4 8.2 5.7 8.4 8.1 4.2 5.9 7.3 4.5 11.6 8.1 8.4 8.1 8.4 5.5 7.2 5.8 8.0 7.7 11.0 7.7	8.3 5.8 8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 5.7 7.4 6.0 8.2 7.8	8.6 8.2 4.4 6.1 7.4 4.6 11.8 8.2 8.6 8.2 8.6 5.7 7.4 6.0 8.2 8.6 5.7 7.4 1.1 8.2 8.6 1.2 8.6 5.7 7.4 6.0 8.2 8.2 8.6 1.2 8.6 1.2 8.2 8.6 1.2 8.6 1.2 8.6 1.2 8.6 1.2 8.6 1.2 8.6 1.2 8.6 8.2 1.2 8.6 1.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.6 8.2 8.6 8.2 8.6 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.7 7.4 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.2 8.6 8.7 7.4 8.6 8.2 8.6 8.7 7.4 8.6 8.7 7.4 8.6 8.7 7.4 7.4 8.6 8.7 7.4 8.6 8.7 7.4 8.6 8.2 8.6 8.7 7.4 8.6 8.7 7.4 8.6 8.7 7.4 8.7 7.4 8.6 8.2 8.6 8.7 7.4 8.6 8.2 8.6 8.2 8.6 8.7 7.7 7.4 8.6 8.7 7.7 7.4 8.7 7.7 7.4 8.7 7.7 7.4 8.7 7.7 7.4 8.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.4 4.6 6.2 7.6 4.8 11.9 8.4 8.7 8.4 8.7 8.4 8.7 5.8 7.5 6.2 8.3 8.0	8.6 4.7 6.4 7.8 5.0 12.1 8.6 8.9 8.6 8.9 6.0 7.7 6.3 8.5 8.2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.4         5.           .8         6.           .0         4.           .1         11.           .6         7.           .9         8.           .6         7.           .9         8.           .0         5.           .7         6.           .5         7.           .2         7.           .5         100.           .2         7.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.0 11.1 7.6 7.9 7.6 7.9 5.0 5.0 6.7 5.4 7.5 7.2 4 10.5 7.2	7.2         4.4         11.5         8.0         8.3         5.4         7.1         5.8         7.9         7.6         10.9         7.6					NO	TE:						

e e		wei	cuse									
. 7	•	0.2	8.	. 2	8.6	2.3	2.5	8				
	. 7.	-	. 7.	12	-	-	-	6				
f 5 7	j 13.4	s 15.7	t 15.4	v 15.0	w 15.2	× 14.9	у 15.0	z 15.8				
5.7 5.7	13.4	15.7	15.4	15.0	15.2	14.9	15.0	15.8				
4.2	12.0	14.2	13.9	13.6	13.8	13.4	13.6	14.4				
6.5 6.0	14.2 13.8	16.5	16.2 15.7	15.8	16.0 15.5	15.7	15.8 15.4	16.6				
1.0	8.8	16.0 11.0	10.7	10.4	10.6	10.2	10.4	11.2				
6.5	14.2	16.5	16.2	15.8	16.0	15.7	15.8	16.6				
5.8	13.6	15.8	15.5 7.8	15.2	15.4	15.0	15.2	16.0				
3.2 1.5	5.9 9.3	8.2 11.5	11.2	7.5	11.0	7.4	7.5 10.9	8.3 11.7				
4.2	12.0	14.2	13.9	13.6	13.8	13.4	13.6	14.4				
3.6	6.4	8.6	8.3	8.0	8.2	7.8	8.0	8.8				
2.9 5.8	20.6 13.6	22.9 15.8	22.6	22.2	22.4	22.1	22.2	23.0 16.0				
6.5	14.2	16.5	16.2	15.8	16.0	15.7	15.8	16.6				
5.8	13.6 14.2	15.8 16.5	15.5	15.2	15.4	15.0	15.2 15.8	16.0				
6.5 0.7	8.5	10.7	16.2	10.1	16.0	9.9	10.1	16.6 10.9				
4.1	11.8	14.1	13.8	13.4	13.6	13.3	13.4	14.2				
1.4	9.1	11.4	11.0	10.7	10.9	10.6	10.7	11.5 15.8				
5.7 5.0	13.4	15.7 15.0	15.4	15.0	15.2	14.9	15.0 14.4	15.0				
1.6	19.4	21.6	21.3	21.0	21.1	20.8	21.0	21.8				
5.0	12.8	15.0	14.7	14.4	14.6	14.2	14.4	15.2				
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5.	4	.9	2	æ.	12.	8	æ	.9				
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0.4	8.9	10.4	10.2	10.0	10.1	9.9	10.0	10.5				
0.4	8.9	10.4	10.2	10.0	10.1	9.9	10.0	10.5				
9.4	8.0	9.4	9.2	9.0	9.1	8.9	9.0	9.5				
0.9 0.6	9.4 9.1	10.9	10.7	10.5	10.6	10.4	10.5	11.0				
<b>7.</b> 3	5.8	7.3	7.1	6.9	7.0	6.8	6.9	7.4				
0.9	9.4	10.9	10.7	10.5	10.6	10.4	10.5	11.0				
0.5 5.4	9.0 3.9	10.5 5.4	10.3	10.1	10.2 5.1	10.0	10.1 5.0	10.6				
.6	6.1	7.6	7.4	7.2	7.3	7.1	7.2	7.7				
9.4	8.0	9.4	9.2	9.0	9.1	8.9	9.0	9.5				
5.7 5.2	4.2 13.7	5.7 15.2	5.5 14.9	5.3 14.7	5.4 14.8	5.2 14.6	5.3 14.7	5.8 15.3				
0.5	9.0	10.5	10.3	10.1	10.2	10.0	10.1	10.6				
0.9	9.4	10.9	10.7	10.5	10.6	10.4	10.5	11.0				
0.5 0.9	9.0 9.4	10.5	10.3	10.1	10.2	10.0	10.1	10.6				
7.1	5.6	7.1	6.9	6.7	10.6	6.6	10.5	7.2				
<b>.</b> 3	7.8	9.3	9.1	8.9	9.0	8.8	8.9	9.4				
·.5	6.0	7.5	7.3	7.1	7.2	7.0	7.1	7.6				
0.4 0.0	8.9 8.5	10.4	10.2 9.8	10.0	10.1	9.9 9.4	10.0 9.5	10.5				
4.3	12.8	14.3	14.1	13.9	14.0	13.8	13.9	14.4				
0.0	8.5	10.0	9.8	9.5	9.6	9.4	9.5	10.1				
0.2 3.9	8.7 7.4	10.2	10.0		9.9 8.6	9.6 8.4	9.8 8.5	10.3 9.0				
,• J	1.	0.5	0.1	0.5	0.0	0.4	0.5	5.0				
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				20" UPPER C		to lo	wor	0.050					
	00	0 4 0 8 0 0				-			N	N	4	w	
20		6.44.6	4.6	14. 4 13. 8 6. 4 6. 4 6. 4 13. 8 9. 2 9. 2 9. 2	9 <b>.</b> 6	8.8	Z.	9 <b>.</b> 8	5	m	G	<u>د</u>	N.
20	-						-		-	N	-	-	-
	a	cdegoq	Ĩ	bhk  mnpru	f	j	S	t	V	w	×	У	Z
18.8 A	22.0	22.4	22.8	23.2	21.6	18.8	21.4	21.2	20.8	21.0	20.6	20.8	21.8
15.2 B	19.6	20.0	20.4	20.8	19.2	16.4	19.0	18.8	18.4	18.6	18.2	18.4	19.4
16.4 C	20.0	20.4	20.8	21.2	19.6	16.8	19.4	19.2	18.8	19.0	18.6	18.8	19.8
16.2 D	20.8	21.2	21.6	22.0	20.4	17.6	20.2	20.0	19.6	19.8	19.4	19.6	20.6
12.8 E	17.0	17.4	17.8	18.2	16.6	13.8	16.4	16.2	15.8	16.0	15.6	15.8	16.8
12.2 F	16.2	16.6	17.0	17.4	15.8	13.0	15.6	15.4	15.0	15.2	14.8	15.0	16.0
17.4 G	22.0	22.4	22.8	23.2	21.6	18.8	21.4	21.2	20.8	21.0	20.6	20.8	21.8
15.4 H	21.4	21.8	22.2	22.6	21.0	18.2	20.8	20.6	20.2	20.4	20.0	20.2	21.2
4.0 I	9.4	9.8	10.2	10.6	9.0	6.2	8.8	8.6	8.2	8.4	8.0	8.2	9.2
11.2 J	16.6	17.0	17.4	17.8	16.2	13.4	16.0	15.8	15.4	15.6	15.2	15.4	16.4
15.6 K	18.8	19.2	19.6	20.0	18.4	15.6	18.2	18.0	17.6	17.8	17.4	17.6	18.6
11.8 L	15.6	16.0	16.4	16.8	15.2	12.4	15.0	14.8	14.4	14.6	14.2	14.4	15.4
18.4 M	23.8	24.2	24.6	25.0	23.4	20.6	23.2	23.0	22.6	22.8	22.4	22.6	23.6
16.6 N	22.0	22.4	22.8	23.2	21.6	18.8	21.4	21.2	20.8	21.0	20.6	20.8	21.8
18.6 0	23.2	23.6	24.0	24.4	22.8	20.0	22.6	22.4	22.0	22.2	21.8	22.0	23.0
14.6 P 18.6 Q	18.4	18.8	19.2	19.6 24.4	18.0	15.2	17.8	17.6	17.2	17.4	17.0	17.2	18.2
18.6 Q 15.0 R	19.4	19.8	20.2	20.6	19.0	16.2	18.8	18.6	18.2	18.4	18.0	18.2	19.2
14.4 S	18.4	18.8	19.2	19.6	18.0	15.2	17.8	17.6	17.2	17.4	17.0	17.2	18.2
14.4 T	17.8	18.2	18.6	19.0	17.4	14.6	17.2	17.0	16.6	16.8	16.4	16.6	17.6
15.6 U	21.0	21.4	21.8	22.2	20.6	17.8	20.4	20.2	19.8	20.0	19.6	19.8	20.8
17.0 V	20.2	20.6	21.0	21.4	19.8	17.0	19.6	19.4	19.0	19.2	18.8	19.0	20.0
26.6 W	30.0	30.4	30.8	31.2	29.6	26.8	29.4	29.2	28.8	29.0	28.6	28.8	29.8
17.2 X	20.2	20.6	21.0	21.4	19.8	17.0	19.6	19.4	19.0	19.2	18.8	19.0	20.0
17.6 Y	20.4	20.8	21.2	21.6	20.0	17.2	19.8	19.6	19.2	19.4	19.0	19.2	20.2
14.4 Z	18.4	18.8	19.2	19.6	18.0	15.2	17.8	17.6	17.2	17.4	17.0	17.2	18.2

				16	" UPPER CASE	to I	ower	
16		11.8	10.9 11.7 11.8 11.7 12.8 12.8	3. 7	11.5 11.0 11.4 5.1 18.1 11.0 11.7 7.4 7.4	7.7	7.0	
		a	cdegoq	i	bhklmnpru	f	j	
15.0	Α	17.6	17.9	18.2	18.6	17.3	15.0	1
12.2	В	15.7	16.0	16.3	16.6	15.4	13.1	1
13.1	С	16.0	16.3	16.6	17.0	15.7	13.4	1
13.0	D	16.6	17.0	17.3	17.6	16.3	14.1	1
10.2	Е	13.6	13.9	14.2	14.6	13.3	11.0	1
9.8	F	13.0	13.3	13.6	13.9	12.6	10.4	1
13.9	G	17.6	17.9	18.2	18.6	17.3	15.0	1
12.3	Η	17.1	17.4	17.8	18.1	16.8	14.6	1
3.2	Ι	7.5	7.8	8.2	8.5	7.2	5.0	
9.0	J	13.3	13.6	13.9	14.2	13.0	10.7	1
12.5	Κ	15.0	15.4	15.7	16.0	14.7	12.5	1
9.4	L	12.5	12.8	13.1	13.4	12.2	9.9	1
14.7	М	19.0	19.4	19.7	20.0	18.7	16.5	1
13.3	Ν	17.6	17.9	18.2	18.6	17.3	15.0	1
14.9	0	18.6	18.9	19.2	19.5	18.2	16.0	1
11.7	Ρ	14.7	15.0	15.4	15.7	14.4	12.2	1
14.9	Q	18.6	18.9	19.2	19.5	18.2	16.0	1
12.0	R	15.5	15.8	16.2	16.5	15.2	13.0	1
11.5	S	14.7	15.0	15.4	15.7	14.4	12.2	1
11.5	Т	14.2	14.6	14.9	15.2	13.9	11.7	1
12.5	U	16.8	17.1	17.4	17.8	16.5	14.2	1
13.6	۷	16.2	16.5	16.8	17.1	15.8	13.6	1
21.3	W	24.0	24.3	24.6	25.0	23.7	21.4	2
13.8	Х	16.2	16.5	16.8	17.1	15.8	13.6	1
14.1	Y	16.3	16.6	17.0	17.3	16.0	13.8	1
11.5	Ζ	14.7	15.0	15.4	15.7	14.4	12.2	1

13.3" UPPER CASE to lower case

13.3	τ.	9.8	9.0 9.7 9.8 9.7 10.2 10.6	3.1	9.6 9.2 5.0 9.2 9.2 9.7 9.7 9.7	6.4	5.9	8.5	6.5	0.1	5.9	0.2	0.4	8.1
15.5	1	a	c d e g o q	ī	bhklmnpru	f	j	s	t	v	w	×	У	z
12.5	Α	14.6	14.9	15.2	15.4	14.4	12.5	14.2	14.1	13.8	14.0	13.7	13.8	14.5
10.1	В	13.0	13.3	13.6	13.8	12.8	10.9	12.6	12.5	12.2	12.4	12.1	12.2	12.9
10.9	С	13.3	13.6	13.8	14.1	13.0	11.2	12.9	12.8	12.5	12.6	12.4	12.5	13.2
10.8	D	13.8	14.1	14.4	14.6	13.6	11.7	13.4	13.3	13.0	13.2	12.9	13.0	13.7
8.5	E	11.3	11.6	11.8	12.1	11.0	9.2	10.9	10.8	10.5	10.6	10.4	10.5	11.2
8.1	F	10.8	11.0	11.3	11.6	10.5	8.6	10.4	10.2	10.0	10.1	9.8	10.0	10.6
11.6	G	14.6	14.9	15.2	15.4	14.4	12.5	14.2	14.1	13.8	14.0	13.7	13.8	14.5
	Н	14.2	14.5	14.8	15.0	14.0	12.1	13.8	13.7	13.4	13.6	13.3	13.4	14.1
2.7	Ι	6.3	6.5	6.8	7.0	6.0	4.1	5.9	5.7	5.5	5.6	5.3	5.5	6.1
	J	11.0	11.3	11.6	11.8	10.8	8.9	10.6	10.5	10.2	10.4	10.1	10.2	10.9
	Κ	12.5	12.8	13.0	13.3	12.2	10.4	12.1	12.0	11.7	11.8	11.6	11.7	12.4
7.8	L	10.4	10.6	10.9	11.2	10.1	8.2	10.0	9.8	9.6	9.7	9.4	9.6	10.2
	м	15.8	16.1	16.4	16.6	15.6	13.7	15.4	15.3	15.0	15.2	14.9	15.0	15.7
	Ν	14.6	14.9	15.2	15.4	14.4	12.5	14.2	14.1	13.8	14.0	13.7	13.8	14.5
	0	15.4	15.7	16.0	16.2	15.2	13.3	15.0	14.9	14.6	14.8	14.5	14.6	15.3
	Ρ	12.2	12.5	12.8	13.0	12.0	10.1	11.8	11.7	11.4	11.6	11.3	11.4	12.1
	Q	15.4	15.7	16.0	16.2	15.2	13.3	15.0	14.9	14.6	14.8	14.5	14.6	15.3
	R	12.9	13.2	13.4	13.7	12.6	10.8	12.5	12.4	12.1	12.2	12.0	12.1	12.8
	S	12.2	12.5	12.8	13.0	12.0	10.1	11.8	11.7	11.4	11.6	11.3	11.4	12.1
9.6		11.8	12.1	12.4	12.6	11.6	9.7	11.4	11.3	11.0	11.2	10.9	11.0	11.7
1001	U	14.0	14.2	14.5	14.8	13.7	11.8	13.6	13.4	13.2	13.3	13.0	13.2	13.8
	V	13.4	13.7	14.0	14.2	13.2	11.3	13.0	12.9	12.6	12.8	12.5	12.6	13.3
	W	20.0	20.2	20.5	20.7	19.7	17.8	19.6	19.4	19.2	19.3	19.0	19.2	19.8
	X Y	13.4	13.7	14.0	14.2	13.2	11.3	13.0	12.9	12.6	12.8	12.5	12.6	13.3
	Z	13.6	13.8 12.5	14.1 12.8	14.4 13.0	13.3 12.0	11.4 10.1	13.2 11.8	13.0	12.8	12.9	12.6	12.8	13.4 12.1

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.2 B	15.7	16.0 16.3	16.3	16.6 17.0		13.1 13.4	15.2 15.5			14.9	14.6 14.9	14.7 15.0		
.0 D	16.6	17.0	17.3	17.6	16.3	14.1	16.2	16.0	15.7	15.8	15.5	15.7	16.5	
.2 E 8 F	13.6	13.9 13.3	14.2	14.6 13.9	12.6	11.0	13.1	12.3	12.0	12.2	12.5	12.6	12.8	
.9 G .3 H	17.6	17.9 17.4	18.2	18.6 18.1		15.0	17.1			16.8	16.5 16.0	16.6		
2 I	7.5	7.8 13.6	8.2	8.5	7.2		7.0	6.9	6.6	6.7	6.4	6.6	7.4	
0 J .5 K	15.0	15.4	15.9	14.2	14.7		14.6	14.4	14.1	14.2	13.9	14.1		
4 L 7 M	12.5	12.8	13.1	<u>13.4</u> 20.0	12.2	9.9 16.5	12.0		11.5		11.4 17.9	11.5 18.1		
.3 N	17.6	17.9	18.2	18.6	17.3	15.0	17.1	17.0	16.6	16.8	16.5	16.6	17.4	
.9 0 .7 P	18.6	18.9 15.0	19.2	<u> </u>		16.0	14.2		13.8	17.8	17.4	13.8		
.9 Q .0 R	18.6	18.9 15.8	19.2	19.5 16.5		16.0			17.6	17.8	17.4	17.6 14.6		
.5 S	14.7	15.0	15.4	15.7	14.4	12.2	14.2	14.1	13.8	13.9	13.6	13.8	14.6	
5 T 5 U		14.6 17.1	14.9	15.2 17.8	16.5	11.7		16.2	15.8	13.4 16.0	15.7	13.3 15.8		
6 V 3 W	16.2	16.5 24.3	16.8	17.1 25.0	15.8	13.6	15.7	15.5	15.2		15.0	15.2	16.0	
.8 X	16.2	16.5	16.8	17.1	15.8	13.6	15.7	15.5	15.2	15.4	15.0	15.2	16.0	
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7 C 6 D	10.6	10.8	11.0	11.2	10.4		10.3	10.2			9.9 10.3	10.0		
E	9.0	9.2	9.4	9.6	8.8	7.3	8.7	8.6	8.4	8.5	8.3	8.4	8.9	
5 F 2 G	8.6	8.8 11.9	9.0 12.1	9.2 12.3	8.4	6.9 10.0	8.3 11.3	8.2 11.2	8.0	8.1 11.1	7.8 10.9	8.0 11.0	8.5 11.6	
2 H 1 I	11.3	11.6 5.2	11.8	12.0 5.6	11.1	9.6 3.3	11.0	10.9	10.7	10.8	10.6	10.7	11.2	
9 J	8.8	9.0	9.2	9.4	8.6	7.1	8.5	8.4	8.2	8.3	8.1	8.2	8.7	
<u>3 K</u> 3 L	10.0	10.2	10.4	10.6	9.8	8.3	9.6 8.0	9.5 7.8	9.3	9.4	9.2 7.5	9.3 7.6	9.9 8.2	
8 M		12.8	13.0	13.3 12.3		10.9	12.3	12.2	12.0	12.1		12.0	12.5	
9 0	12.3	12.5	12.7	12.9	12.1	10.6	12.0	11.9	11.7	11.8	11.6	11.7	12.2	
7 P 9 Q	9.8	10.0	10.2	10.4	9.5		9.4	9.3		9.2	9.0 11.6	9.1 11.7	9.6 12.2	
0 R 6 S	10.3	10.5	10.7	10.9	10.1	8.6	10.0		9.6	9.8	9.5 9.0	9.6	10.2	
6 T	9.4	9.6	9.9	10.1	9.2	7.7	9.1	9.0	8.8	9.2	8.7	8.8	9.3	
3 U 0 V	11.1	11.3	11.6	<u>11.8</u> 11.3	10.9		10.8	10.7		10.6	10.4	10.5		
.1 W	15.9	16.1 10.9	16.3	16.5 11.3	15.7	14.2	15.6	15.5	15.3	15.4	15.2	15.3	15.8	
3 Y	10.8	11.0	11.2	11.4	10.6	9.1	10.5	10.4	10.2	10.3	10.1	10.2	10.7	
6   Z	9.8	10.0	10.2	10.4	9.5	8.1	9.4	9.3	9.1	9.2	9.0	9.1	9.6	
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7.5 A	8.8	9.0	9.1	9.3	8.6	7.5	8.6	8.5	8.3	8.4	8.2	8.3	8.7
6.1 B	7.8	8.0	8.2	8.3	7.7	6.6	7.6	7.5	7.4	7.4	7.3	7.4	7.8
6.6 C	8.0	8.2	8.3	8.5	7.8	6.7	7.8	7.7	7.5	7.6	7.4	7.5	7.9
6.5 D	8.3	8.5	8.6	8.8	8.2	7.0	8.1	8.0	7.8	7.9	7.8	7.8	8.2
5.1 E	6.8	7.0	7.1	7.3	6.6	5.5	6.6	6.5	6.3	6.4	6.2	6.3	6.7
4.9 F 7.0 G	6.5	6.6	6.8	7.0	6.3	5.2	6.2 8.6	6.2 8.5	6.0	6.1	5.9	6.0 8.3	6.4 8.7
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6.2 H 1.6 I	8.6	8.7 3.9	8.9	4.2	8.4		8.3	8.2	8.1	8.2	8.0	8.1 3.3	3.7
	6.6	6.8	4.1	7,1	6.5	2.5	6.4	6.3	6.2	6.2	6.1	6.2	6.6
4.5 J 6.2 K	7.5	7.7	7.8	8.0	7.4	6.2	7.3	7.2	7.0	7.1	7.0	7.0	7.4
4.7 L	6.2	6.4	6.6	6.7	6.1	5.0	6.0	5.9	5.8	5.8	5.7	5.8	6.2
7.4 M	9.5	9.7	9.8	10.0	9.4	8.2	9.3	9.2	9.0	9.1	9.0	9.0	9.4
6.6 N	8.8	9.0	9.1	9.3	8.6	7.5	8.6	8.5	8.3	8.4	8.2	8.3	8.7
7.4 0	9.3	9.4	9.6	9.8	9.1	8.0	9.0	9.0	8.8	8.9	8.7	8.8	9.2
5.8 P	7.4	7.5	7.7	7.8	7.2	6.1	7.1	7.0	6.9	7.0	6.8	6.9	7.3
7.4 Q	9.3	9.4	9.6	9.8	9.1	8.0	9.0	9.0	8.8	8.9	8.7	8.8	9.2
6.0 R	7.8	7.9	8.1	8,2	7.6	6.5	7.5	7.4	7.3	7.4	7.2	7.3	7.7
5.8 S	7.4	7.5	7.7	7.8	7.2	6.1	7.1	7.0	6.9	7.0	6.8	6.9	7.3
5.8 T	7.1	7.3	7.4	7.6	7.0	5.8	6.9	6.8	6.6	6.7	6.6	6.6	7.0
6.2 U	8.4	8.6	8.7	8.9	8.2	7.1	8.2	8.1	7.9	8.0	7.8	7.9	8.3
6.8 V	8.1	8.2	8.4	8.6	7.9	6.8	7.8	7.8	7.6	7.7	7.5	7.6	8.0
10.6 W	12.0	12.2	12.3	12.5	11.8	10.7	11.8	11.7	11.5	11.6	11.4	11.5	11.9
6.9 X	8.1	8.2	8.4	8.6	7.9	6.8	7.8	7.8	7.6	7.7	7.5	7.6	8.0
7.0 Y	8.2	8.3	8.5	8.6	8.0	6.9	7.9	7.8	7.7	7.8	7.6	7.7	8.1
5.8 Z	7.4	7.5	7.7	7.8	7.2	6.1	7.1	7.0	6.9	7.0	6.8	6.9	7.3

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| 14.8 a  | 18.8   | 19.2  
   
   
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  | 11.2  | 11.2   
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| 16.0 q<br>9.2 r   | 19.8   | 20.2  
   
   
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   | 21.6  | 21.9  |   
   | 6 18.4<br>1 11.8   |
|   | 18.4   | 18.8  
   
   
   |  | 19.2   
   |  |   |  
   |   |   |  |  |   
  |  
   | 18.2   | 12   
  | 5 y  | 14.7  
  | 15.0  |  
   | 15.4  |   | 14.4  
   | 4 12.2   |
| 10.0 Y  |  |   
   
   
   | 1 10.0   |  
   |  | 10.0  | 1 1 3 • 2  
   | 111.0   | 111.6   | 111.2  | 11.4   | 11.0  
  | 11.4   
   |  | 14.  
  | J   Y  | 1 1 7 • 1   
  | 13.0  |  
   |   | J J. I  |   
   |  |
| 3.6 y<br>2.2 z  |  | 16.4  
   
   
   | 16.4   |  
   | 17.2<br>13.3" lower  | 15.6<br>Case  |  
   | 17.8<br>15.4  | 15.2  | 14.8   | 15.0   | 14.6  
  | 14.8   
   |  |  
  | 3 <u>y</u><br>3 Z  | 12.8  
  | 13.1  | 13.0   
   |   | 13.8<br>10.6" lower   | - case  
   | 5   10.2   |
| 15.6 y<br>12.2 z  | 16.0<br>∞  |   
   
   
   | 16.4   |  
   | 17.2<br>13.3" lower  | 15.6<br>Case  | 12.8   
   | 15.4  | 15.2<br>COS   | e  | 15.0   | 14.6<br>~   
  | 14.8   
   |  | 9.8  
  | 3 Z  | 12 <b>.</b> 8   
  | 13.1<br>വയ-പ്രം   | 13.1   
   |   | 13.8<br>10.6" lower   | - case  
   | 5   10.2<br>∋ to   |
| 13.3  | 16.0   | 16.4<br>0.6<br>0.6<br>0.1<br>0.0<br>10.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.  
   
   
   | 16.4<br>2.6  | 16.8   
   | 17.2   | 15.6<br>COSE  | 12.8<br>†0   
   | 15.4  | 15.2<br>Cas   | 14.8   | 15.0   | 14.6  
  | 14.8   
   | -  | 9.8  
  |  | 12.8  
  |   |  
   | 13.4  | 13.8  |   
   | 5   10.2<br>e to   |
| 12.2 z<br>13.3  | 8<br>6   |   
   
   
   | 16.4<br>2.6  | 16.8   
   | 17.2<br>13.3" Iower<br>0.4 m 0.0 c<br>0.0 0 4 0 0 0 0 0<br>0 h K I m n p r u   | COSE  | 12.8<br>to   
   | 15.4  | 15.2<br>COS   | e<br>•<br>•  | 15.0   | 14.6<br>2.01<br>×   
  | 14.8   
   | 15.8<br>   | 9.0  
  | 3 Z  | 8°.   
  | 13.1<br>വയ-പ്രം   |  
   | 13.4  | 13.8<br>10.6 " lower<br>9   |   
   | 5 10.2<br>e to<br>F  |
| 2.2 z<br>13.3<br>9.8 a<br>9.6 b   | α<br>12.5<br>12.5  | 16.4  
   
   
   | 16.4<br>6<br>d<br>12.8<br>12.8   | 16.8<br>M<br>1<br>13.0<br>13.0   
   | 17.2<br>13.3"   ower<br>000 0 0 0 0 0 0 0 0<br>0 0 0 0 0 0 0 0 0   | 15.6<br>COSE<br>5<br>5<br>6<br>7<br>6<br>7<br>6<br>7<br>6<br>7<br>7<br>6<br>7<br>7<br>7<br>6<br>9<br>7<br>7<br>7<br>7<br>9<br>7<br>7<br>7<br>7  | 12.8<br>10<br>5<br>10.4<br>10.4  
   | 15.4<br>Ower<br>©<br>s<br>12.1<br>12.1  | 15.2<br>COS<br>0<br>t<br>12.0<br>12.0   | e<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | 15.0<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | 14.6<br>0.<br>11.6<br>11.6  
  | 14.8<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  
   | 15.8<br>   | <u>9.</u>  
  | 3 z<br>• 6   | ∞.<br>∠<br>10.0<br>10.0   
  | 13.1  | 13.1<br>   
   | 13.4<br>•<br>·<br>·<br>10.3<br>10.3   | 13.8<br>10.6" lower<br>10.6" lower<br>10.6" lower<br>10.6<br>10.6   | 12.5<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE  
   | 5 10.2<br>7 10.2 |
| 12.2 z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c   | 0<br>0<br>12.5<br>12.5<br>11.3   | 0 ∞ <sup>∧</sup> <sup>(c)</sup><br>o o o o o o o o o o o o o o o o o o o  
   
   
   | 16.4<br>   | 16.8<br>   
   | 17.2<br>13.3 " I ower<br>0.4 T m<br>0.4 T m<br>0.6 T m<br>0.6 T m<br>13.3<br>13.3<br>12.1  | COSE<br>COSE<br>J f<br>12.2<br>11.0   | 12.8<br>†0<br>5<br>10.4<br>10.4<br>9.2   
   | 15.4<br>0wer<br>&<br>s<br>12.1<br>12.1<br>10.9  | 15.2<br>COS<br>t<br>12.0<br>10.8  | e<br>v<br>11.7<br>11.7<br>10.5   | 15.0<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | N.<br>0.<br>11.6<br>11.6<br>10.4  
  | 14.8<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  
   | 15.8<br>   | 9. t<br>10<br>7. t<br>7. c   
  | 3 Z<br>6 6<br>3 a<br>5 b<br>2 c  | ∞<br>∼<br>10.0<br>10.0<br>9.0   
  | 13.1  | 13.1<br>   
   | 13.4<br>•<br>10.3<br>10.3<br>9.3  | 13.8<br>10.6 " lower<br>0 m lot 0 m r o<br>10.6 0   | 12.5<br>COSE<br>COSE<br>L<br>L<br>U<br>f<br>9.8<br>9.8<br>8.8   | <ul> <li>5 10.2</li> <li>6 10</li> <li>7 10&lt;</li></ul>   
  |
| <b>13.3</b><br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d   | 16.0<br>   | 0 ∞ - N c<br>0 0 0 0 0 0 0<br>0 0 0 0 0 0<br>0 0 0 0 0<br>0 0 0 0<br>0 0 0 0<br>0 0 0<br>0 0 0<br>0 0 0 0<br>0 0 0<br>0 0 0 0   
   
   
   | 16.4<br>   | 16.8<br>   | 17.2<br>13.3"   Ower<br>□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □                                       
  | COSE  | 12.8<br>†0<br>5<br>10.4<br>10.4<br>9.2<br>11.0   | 15.4  
   | 15.2<br>COS<br>1<br>12.0<br>10.8<br>12.6  | e<br>v<br>11.7<br>10.5<br>12.4   | 15.0<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | 14.6<br>N<br>O<br>T<br>X<br>11.6<br>11.6<br>10.4<br>12.2  
  | 14.8<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  
   | 15.8<br>   | 9. t<br>10<br>7. t<br>7. t<br>7. t<br>7. t<br>7. t   
  | 3         Z           0         6           3         a           5         b           2         c           7         d  | ∞<br>∼<br>10.0<br>10.0<br>9.0<br>10.5   
  | 13.1<br>N 00 ~ N 00<br>r r r m 00 00<br>c e g o q<br>10.2<br>10.2<br>9.2<br>10.7  | 13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.7  | 13.4<br>▼<br>N<br>10.3<br>10.3<br>9.3<br>10.8                 
   | 13.8<br>10.6" Iower<br>0.1.1.10<br>10.6<br>10.6<br>10.6<br>11.1   | - COSE<br>- COSE<br>- U f<br>- 9.8<br>- 9.8<br>- 8.8<br>- 10.3  
   | <ul> <li>5 10.2</li> <li>7 10.2</li></ul>  |
| 12.2 z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.0 c<br>9.7 d<br>9.8 e<br>6.4 f   | 16.0   | 0 ∞ <sup>∧</sup> <sup>(c)</sup><br>o o o o o o o o o o o o o o o o o o o  
   
   
   | 16.4<br>   | 16.8<br>   
   | 17.2<br>13.3"   Ower<br>0 0 0 0 0 0 0 0 0 0<br>0 0 0 0 0 0 0 0 0   | COSE  | 12.8<br>to<br>5<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6   
   | 15.4  | 15.2<br>cas<br>f<br>cas<br>f<br>12.0<br>10.8<br>12.6<br>12.2  | e<br>v<br>11.7<br>10.5<br>12.4   | 15.0<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | 14.6<br>N<br>O<br>T<br>X<br>11.6<br>11.6<br>10.4<br>12.2<br>11.8  
  | 14.8<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  
   | 15.8<br>   | 9. 8<br>10<br>7. 0<br>7. 0<br>7. 0<br>7. 0<br>7. 0<br>7. 0<br>7. 0<br>7.   
  | 3 Z<br>3 G<br>3 G<br>5 D<br>2 C<br>7 G<br>3 e<br>1 f   | ∞<br>∼<br>10.0<br>10.0<br>9.0   
  | 13.1  | 13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.7  
   | 13.4<br>•<br>10.3<br>10.3<br>9.3  | 13.8<br>10.6 " lower<br>0 m lot 0 m r o<br>10.6 0   | - COSE<br>- COSE<br>- U f<br>9.8<br>9.8<br>9.8<br>8.8<br>10.3<br>6.7  | 5 10.2<br>5 10.2 |
| <b>13.3</b><br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g  | 0<br>0<br>0<br>12.5<br>12.5<br>11.3<br>13.2<br>12.8<br>8.6<br>13.2   | 16.4<br>0 ∞ ⊢   
   
   
   | 16.4   | 16.8<br>   
   | 17.2<br>13.3 "   Ower<br>0 0 4 m<br>0 0  | COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>C<br>COSE<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 12.8<br>to<br>5<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0  
   | 15.4<br>0wer<br>5<br>12.1<br>12.1<br>10.9<br>12.8<br>12.4<br>8.2<br>12.8  | 15.2<br>COS<br>0<br>1<br>12.0<br>12.0<br>10.8<br>12.6<br>12.2<br>8.1<br>12.6  | e<br>v<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4  | 15.0<br>*<br><br>w<br>11.8<br>10.6<br>12.5<br>12.1<br>8.0<br>12.5  | 14.6<br>N.0<br>11.6<br>11.6<br>10.4<br>12.2<br>11.8<br>7.7<br>12.2  
  | 14.8         ▼         ○         y         11.7         10.5         12.4  
   | 15.8<br>   | 9. i<br>10<br>7. i<br>7. i<br>7. i<br>5.<br>7. i<br>5.<br>7.   
  | 3         z           3         a           3         a           3         a           4         b           5         b           2         c           3         e           1         f           7         g  | ∞<br>   
  | 13.1  | 13.1<br>   
   | 13.4         ▼         N         10.3         9.3         10.5         7.2         10.8   | 13.8<br>10.6"   ower<br>0   | Case<br>Case<br>Case<br>Case<br>Case<br>Case<br>Case<br>Case  
   | <ul> <li>5 10.2</li> <li>6 10.2</li> <li>7 10.2</li> <li>7 10.2</li> <li>8 10.2</li> <li>7 10.2</li> <li>1 8 10.2</li> &lt;</ul>   |
| 12.2 z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g<br>9.2 h   | 16.0   | 16.4       ○       ∞       0       %       0       %       0       %       0       %       0       %       0       %       0       %       0       %       %       13.4       12.9  
   
   
   | 16.4<br>   | 16.8<br>   
   | 17.2<br>13.3"   ower<br>0 0 0 0 0 0 0 0 0 0 0<br>0 0 0 0 0 0 0 0   | CCISE<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>CCISE<br>T<br>C<br>CCISE<br>T<br>C<br>C<br>CCISE<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 12.8<br>10.4<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5   
   | 15.4<br>0wer<br>\$<br>12.1<br>12.1<br>10.9<br>12.8<br>12.4<br>8.2<br>12.8<br>12.2   | 15.2<br>COS<br>t<br>12.0<br>12.0<br>10.8<br>12.6<br>12.2<br>8.1<br>12.6<br>12.1   | e<br>v<br>11.7<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4<br>11.8  | 15.0<br>*<br>w<br>11.8<br>10.6<br>12.5<br>12.1<br>8.0<br>12.5<br>12.0  | N.<br>0.<br>11.6<br>11.6<br>10.4<br>12.2<br>11.8<br>7.7<br>12.2<br>11.7   
  | 14.8<br>y<br>11.7<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4<br>11.8   
   | 15.8<br>   | 9. i<br>10<br>7. i<br>7. i<br>7. i<br>5.<br>7. i<br>5.<br>7. i<br>7. i<br>7. i<br>7. i<br>7. i<br>7. i<br>7. i<br>7.   
  | 3         z           3         a           3         a           5         b           2         c           7         d           3         e           1         f           7         g           3         h  | ∞<br>⊂<br>10.0<br>10.0<br>9.0<br>10.5<br>10.2<br>6.9<br>10.5<br>10.1  
  | 13.1<br>N 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.7<br>10.4<br>7.1<br>10.7<br>10.3   
   | 13.4         ▼         I         10.3         9.3         10.8         10.5         7.2         10.8         10.4   | 13.8<br>10.6 " lower<br>∞mu v 0 m v 0<br>r r r m 2 r r v<br>b h k l m p r<br>10.6<br>10.6<br>9.6<br>11.1<br>10.8<br>7.5<br>11.1<br>10.7   | 12.5<br>Case<br>V -<br>U f<br>9.8<br>9.8<br>8.8<br>8.8<br>8.8<br>8.0.3<br>10.0<br>6.7<br>10.3<br>9.9  
   | <ul> <li>5 10.2</li> <li>6 10.2</li> <li>7 0</li> <li>7 0</li> <li>8 0</li> <li>9 0</li></ul>   |
| 12.2 z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g<br>9.2 h<br>3.1 i   | 16.0<br>0<br>12.5<br>11.3<br>13.2<br>12.8<br>8.6<br>13.2<br>12.6<br>6.3  | 16.4<br>0 ∞ ⊢ ○ ⊂<br>0 0 0 − ○ ⊂<br>0 0 0 0 0<br>12.8<br>11.6<br>13.4<br>13.0<br>8.9<br>13.4<br>12.9<br>6.5   
   
   
   | 16.4<br><br><br><br><br><br><br>   | 16.8<br>   
   | 17.2<br>13.3"   Ower<br>0 0 4 0 0 0 0 0 0 0<br>0 0 4 0 0 0 0 0 0 0<br>0 0 0 4 0 0 0 0 0 0<br>0 0 0 4 0 0 0 0 0<br>0 0 0 0 0 0 0<br>0 0 0 0 0 0 0   | CQSe<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSe<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>CQSE<br>T<br>C<br>CQSE<br>T<br>C<br>CQSE<br>T<br>C<br>CQSE<br>T<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | 12.8<br>10.4<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5<br>4.1  
   | 15.4<br>0wer<br>0<br>0<br>0<br>0<br>0<br>12.1<br>12.1<br>12.1<br>12.1<br>12.9<br>12.8<br>12.4<br>8.2<br>12.4<br>8.2<br>12.2<br>5.9  | 15.2<br>CCIS  | e<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 15.0<br>*.<br>5.0<br>*.<br>11.8<br>11.8<br>10.6<br>12.5<br>12.1<br>8.0<br>12.5<br>12.0<br>5.6  | N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.  
  | 14.8<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  
   | 15.8<br>-<br>  | 9. 4<br>7. 4<br>7. 7<br>7. 7<br>7. 7<br>7. 7<br>7. 7<br>7. 7<br>7  
  | 3         2           3         a           3         b           3         b           3         b           4         i  | ∞   
  | 13.1  | 13.1<br>13.1<br>10.2<br>10.2<br>10.7<br>10.4<br>7.1<br>10.3<br>5.2   
   | 13.4<br>•<br>10.3<br>10.3<br>9.3<br>10.8<br>10.8<br>10.5<br>7.2<br>10.8<br>10.4<br>5.3  | 13.8<br>10.6"   ower<br>  | COSE<br>COSE<br>V -<br>V -<br>V -<br>V -<br>V -<br>V -<br>V -<br>V -<br>V -<br>V -  
   | 5 10.3<br>6 to<br>7<br>8.3<br>8.3<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>3.8.8<br>0.8.5<br>5.2<br>5.2<br>5.2<br>5.2<br>5.2<br>5.2<br>5.2<br>5   |
| 12.2 z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g<br>9.2 h<br>3.1 i<br>3.1 i  | 16.0   | 16.4       ○       ∞       0       %       0       %       0       %       0       %       0       %       0       %       0       %       0       %       %       13.4       12.9  
   
   
   | 16.4<br>   | 16.8<br>   
   | 17.2<br>13.3 "   ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>ower<br>owe | CCUSE<br>CCUSE<br>T<br>12.2<br>12.2<br>11.0<br>12.9<br>12.9<br>12.5<br>8.4<br>12.9<br>12.4<br>6.0<br>8.8  | 12.8<br>10.4<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5<br>4.1  
   | 15.4<br>0wer<br>s<br>12.1<br>12.1<br>10.9<br>12.4<br>12.4<br>12.8<br>12.4<br>8.2<br>12.8<br>12.2<br>5.9<br>8.6  | 15.2<br>CCIS  | e<br>v<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4<br>11.8<br>5.5<br>8.2  | 15.0<br>*<br><br>w<br>11.8<br>10.6<br>12.5<br>12.1<br>8.0<br>12.5<br>12.5<br>12.6<br>8.4   | N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N   
  | 14.8         ▼         ○         ⊥         11.7         10.5         12.4         12.0         7.8         12.4         15.5         8.2   
   | 15.8<br>   | 9. i<br>10<br>7. i<br>7. i<br>7. i<br>5.<br>7. i<br>5.<br>7. i<br>7. i<br>7. i<br>7. i<br>7. i<br>7. i<br>7. i<br>7.   
  | 3         Z           3         a           3         b           3         b           4         1           7         j  | ∞<br><br><br><br><br><br><br>   
  | 13.1  | 13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.7<br>10.4<br>7.1<br>10.7<br>10.3   
   | 13.4         ▼         I         10.3         9.3         10.8         10.5         7.2         10.8         10.4   | 13.8<br>10.6 " lower<br>∞mu v 0 m v 0<br>r r r m 2 r r v<br>b h k l m p r<br>10.6<br>10.6<br>9.6<br>11.1<br>10.8<br>7.5<br>11.1<br>10.7   |
12.5<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>C | <ul> <li>to.2</li> <li< td=""></li<></ul>  |
| 12.2 z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g<br>9.2 h<br>3.1 i<br>5.9 j<br>9.4 k<br>4.3 L   | 00<br>00<br>12.5<br>11.3<br>12.5<br>11.3<br>13.2<br>12.6<br>6.3<br>9.0<br>11.3<br>6.7  | 16.4<br>0 ∞ ⊢ ○ ⊆<br>c e g o q<br>12.8<br>11.6<br>13.4<br>13.4<br>13.9<br>6.5<br>9.3<br>11.6<br>6.9   
   
   
   | 16.4<br>   | 16.8<br>   
   | 17.2<br>13.3"   Ower<br>0   0   0   0   0   0   0   0   0   0  | COSE<br>T 15.6<br>COSE<br>T 15.6<br>T 15.6<br>T 15.6<br>T 15.6<br>T 12.2<br>12.9<br>12.9<br>12.9<br>12.9<br>12.4<br>6.0<br>8.8<br>11.0<br>6.4   | 12.8<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5<br>4.1<br>6.9<br>9.2<br>4.5   
   | 15.4<br>0 Wer<br>5<br>12.1<br>12.1<br>10.9<br>12.8<br>12.4<br>8.2<br>12.8<br>12.2<br>5.9<br>8.6<br>10.9<br>6.3  | 15.2<br>CCIS<br>12.0<br>12.0<br>12.0<br>12.0<br>12.6<br>12.2<br>8.1<br>12.6<br>12.2<br>8.5<br>10.8<br>6.1   | e<br>v<br>11.7<br>10.5<br>12.4<br>12.4<br>12.4<br>11.8<br>5.5<br>8.2<br>10.5<br>5.9  | 15.0<br>*<br>5<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*  | N.<br>0<br>11.6<br>11.6<br>10.4<br>12.2<br>11.7<br>7.7<br>12.2<br>11.7<br>5.3<br>8.1<br>10.4<br>5.7   
  | 14.8<br>   
   | 15.8<br>z<br>12.4<br>11.2<br>13.0<br>12.6<br>8.5<br>13.0<br>12.5<br>6.1<br>8.9<br>11.2<br>6.5  | 9. 4<br>7. 4<br>7. 7<br>7. 7<br>7. 7<br>7. 7<br>7. 7<br>7. 7<br>7  
  | 3         z           3         a           3         a           3         b           2         c           7         d           3         e           1         f           7         g           3         h           4         i           5         K           4         i  | ∞.<br>2<br>10.0<br>10.0<br>9.0<br>10.5<br>10.2<br>6.9<br>10.5<br>10.1<br>5.0<br>7.2<br>9.0<br>5.3   
  | 13.1  | 13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.7<br>10.4<br>7.1<br>10.7<br>10.3<br>5.2<br>7.4<br>9.2<br>5.5   
   | 13.4  | 13.8<br>10.6 "   ower<br>   | 12.5<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE  
   | <ul> <li>to.2</li> <li< td=""></li<></ul>  |
| 12.2 Z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g<br>9.2 h<br>3.1 i<br>5.9 j<br>9.4 K<br>4.3 l  | 0         0         0         12.5         12.5         13.2         13.2         12.6         0         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         14.5         15.7         18.5   | 16.4<br>0 ∞ ⊢ 0 ⊂ −<br>c e g o q<br>12.8<br>12.8<br>13.4<br>13.4<br>13.4<br>13.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>13.6<br>5<br>9.3<br>11.6<br>6.9<br>18.8   
   
   
   | 16.4<br>   | 16.8<br>   
   | 17.2<br>13.3 " I ower<br>a (a) = m (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c  | COSE  | 12.8<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5<br>4.1<br>6.9<br>9.2<br>4.5<br>16.4   
   | 15.4<br>0wer<br>5<br>12.1<br>12.1<br>12.2<br>12.8<br>12.4<br>8.2<br>12.8<br>12.2<br>12.8<br>12.2<br>5.9<br>8.6<br>10.9<br>6.3<br>18.1   | 15.2<br>CGS<br>12.0<br>12.0<br>12.0<br>12.0<br>12.2<br>8.1<br>12.6<br>12.2<br>8.1<br>12.6<br>12.7<br>8.5<br>10.8<br>6.1<br>18.0   | e<br>v<br>11.7<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4<br>12.0<br>7.8<br>12.4<br>11.8<br>5.5<br>8.2<br>10.5<br>5.9<br>9<br>17.7   | 15.0<br>*<br><br>w<br>11.8<br>11.8<br>10.6<br>12.5<br>12.1<br>8.0<br>12.5<br>12.0<br>5.6<br>8.4<br>10.6<br>6.0<br>17.8   | N         N         0         X         11.6         10.4         12.2         11.8         7.7         12.2         15.3         8.1         10.4         5.7         17.6   
  | 14.8         ▼         ○         y         11.7         10.5         12.4         11.8         5.5         9.2         10.5         5.9         17.7   
   | 15.8<br>-<br>  | 9. 4<br>10<br>7. 6<br>7. 6<br>7. 7<br>7. 7   
  | 3         z           3         a           3         a           5         b           6         b           7         d           3         e           1         f           7         j           5         K           4         I           0         m  | ∞   
  | 13.1  | 13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.4<br>7.1<br>10.4<br>7.1<br>10.3<br>7.4<br>9.2<br>5.5<br>14.9   | 13.4<br>13.4<br>10.3<br>10.3<br>10.3<br>10.8<br>10.8<br>10.8<br>10.8<br>10.4<br>5.3<br>7.5<br>9.3<br>5.7<br>15.0  
   | 13.8<br>10.6 "  ower<br>  | 12.5<br>COSE<br>U f<br>9.8<br>9.8<br>9.8<br>10.2<br>10.0<br>6.7<br>10.3<br>9.9<br>4.8<br>7.0<br>8.8<br>5.1<br>14.5  
   | 5 10.2<br>7 10.2 |
| <b>13.3</b><br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.7 d<br>9.2 h<br>15.9 j<br>9.4 k<br>4.3 l<br>15.0 m<br>9.2 n<br>9.2 n<br>9.2 d<br>9.3 d<br>9.4 k<br>4.3 l<br>9.4 k<br>15.0 m<br>9.2 n<br>9.2 d<br>9.3 d<br>9.4 k<br>15.0 m<br>9.2 n<br>9.2 d<br>9.4 k<br>15.0 m<br>9.2 n<br>9.2 d<br>9.3 d<br>9.4 k<br>15.0 m<br>9.2 n<br>9.2 n<br>9.2 d<br>9.4 k<br>15.0 m<br>9.2 n<br>9.2 n<br>9.2 d<br>9.4 k<br>15.0 m<br>9.2 n<br>9.2 n<br>9.2 n<br>9.2 n<br>9.4 k<br>15.0 m<br>9.2 n<br>9.2 n<br>9   |  | 16.4         ○       ∞       ~ </td <td>16.4 16.4 6.5 9.3 11.6 6.5 9.3 11.6 6.9 18.8 12.9</td> <td>16.8<br/></td> <td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td> <td>CQSe<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T</td> <td>12.8<br/>10.4<br/>10.4<br/>10.4<br/>9.2<br/>11.0<br/>10.6<br/>6.5<br/>11.0<br/>10.5<br/>4.1<br/>6.9<br/>9.2<br/>4.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5</td> <td>15.4<br/>0wer<br/>5<br/>12.1<br/>12.1<br/>12.2<br/>12.8<br/>12.4<br/>8.2<br/>12.8<br/>12.2<br/>5.9<br/>8.6<br/>10.9<br/>6.3<br/>18.1<br/>12.2</td> <td>15.2<br/>COS<br/>12.0<br/>12.0<br/>12.0<br/>12.6<br/>12.2<br/>8.1<br/>12.6<br/>12.1<br/>5.7<br/>8.5<br/>10.8<br/>6.1<br/>18.0<br/>12.1</td> <td>e<br/>v<br/>11.7<br/>10.5<br/>12.4<br/>12.0<br/>7.8<br/>12.4<br/>11.8<br/>5.5<br/>8.2<br/>10.5<br/>5.9<br/>17.7<br/>11.8</td> <td>15.0<br/>*.<br/><u>y</u><br/>w<br/>11.8<br/>10.6<br/>12.5<br/>12.1<br/>12.5<br/>12.5<br/>12.6<br/>8.4<br/>10.6<br/>6.0<br/>17.8<br/>12.0</td> <td>N.<br/>N.<br/>N.<br/>N.<br/>N.<br/>N.<br/>N.<br/>N.<br/>N.<br/>N.</td> <td>14.8         ▼         ···         ·</td> <td>15.8<br/></td> <td>9. 4<br/>10<br/>7. 4<br/>7. 7<br/>7. 7</td> <td>3         z           3         a           3         a           5         b           2         c           7         g           3         e           1         f           7         g           3         h           4         i           7         j           5         k           4         n           3         n</td> <td>∞<br/>G<br/>10.0<br/>10.0<br/>10.5<br/>10.5<br/>10.5<br/>10.1<br/>5.0<br/>7.2<br/>9.0<br/>5.3<br/>14.7<br/>10.1</td> <td>13.1       N</td> <td>13.1<br/>13.1<br/>10.2<br/>10.2<br/>9.2<br/>10.7<br/>10.4<br/>7.1<br/>10.3<br/>5.2<br/>7.4<br/>9.2<br/>5.5<br/>14.9<br/>10.3</td> <td>13.4<br/>13.4<br/>10.3<br/>10.3<br/>9.3<br/>10.8<br/>10.8<br/>10.8<br/>10.8<br/>10.4<br/>5.3<br/>7.5<br/>9.3<br/>5.7<br/>15.0<br/>10.4</td> <td>13.8<br/>10.6"   ower<br/>∞mu⊽ ∞mr.or<br/>b h k   mn p r<br/>10.6<br/>10.6<br/>9.6<br/>11.1<br/>10.7<br/>5.6<br/>7.8<br/>9.6<br/>5.9<br/>15.4<br/>10.7</td> <td>12.5       Case       u       9.8       9.8       10.0       6.7       10.3       9.9       4.8       7.0       8.8       5.1       14.5       9.9</td> <td><ul> <li>5 10.2</li> <li>6 10.2</li> <li>7 0</li> <li>8 0</li> <li>9 5.2</li> <li>1 7.3</li> <li>3 0</li> <li>3 3.6</li> <li>5 1 3.0</li> <li>8 8</li> </ul></td>  
   
   
   | 16.4 16.4 6.5 9.3 11.6 6.5 9.3 11.6 6.9 18.8 12.9  | 16.8<br>   | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$   |
CQSe<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T   | 12.8<br>10.4<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5<br>4.1<br>6.9<br>9.2<br>4.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5     | 15.4<br>0wer<br>5<br>12.1<br>12.1<br>12.2<br>12.8<br>12.4<br>8.2<br>12.8<br>12.2<br>5.9<br>8.6<br>10.9<br>6.3<br>18.1<br>12.2   | 15.2<br>COS<br>12.0<br>12.0<br>12.0<br>12.6<br>12.2<br>8.1<br>12.6<br>12.1<br>5.7<br>8.5<br>10.8<br>6.1<br>18.0<br>12.1   
   | e<br>v<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4<br>11.8<br>5.5<br>8.2<br>10.5<br>5.9<br>17.7<br>11.8   | 15.0<br>*.<br><u>y</u><br>w<br>11.8<br>10.6<br>12.5<br>12.1<br>12.5<br>12.5<br>12.6<br>8.4<br>10.6<br>6.0<br>17.8<br>12.0  | N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.<br>N.   | 14.8         ▼         ···         ·   
   
   | 15.8<br>   | 9. 4<br>10<br>7. 4<br>7. 7<br>7. 7  | 3         z           3         a           3         a           5         b           2         c           7         g           3         e           1         f           7         g           3         h           4         i           7         j           5         k           4         n           3         n  
   | ∞<br>G<br>10.0<br>10.0<br>10.5<br>10.5<br>10.5<br>10.1<br>5.0<br>7.2<br>9.0<br>5.3<br>14.7<br>10.1   | 13.1       N   
  | 13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.7<br>10.4<br>7.1<br>10.3<br>5.2<br>7.4<br>9.2<br>5.5<br>14.9<br>10.3   | 13.4<br>13.4<br>10.3<br>10.3<br>9.3<br>10.8<br>10.8<br>10.8<br>10.8<br>10.4<br>5.3<br>7.5<br>9.3<br>5.7<br>15.0<br>10.4   | 13.8<br>10.6"   ower<br>∞mu⊽ ∞mr.or<br>b h k   mn p r<br>10.6<br>10.6<br>9.6<br>11.1<br>10.7<br>5.6<br>7.8<br>9.6<br>5.9<br>15.4<br>10.7  
   | 12.5       Case       u       9.8       9.8       10.0       6.7       10.3       9.9       4.8       7.0       8.8       5.1       14.5       9.9  | <ul> <li>5 10.2</li> <li>6 10.2</li> <li>7 0</li> <li>8 0</li> <li>9 5.2</li> <li>1 7.3</li> <li>3 0</li> <li>3 3.6</li> <li>5 1 3.0</li> <li>8 8</li> </ul>   |
| <b>13.3</b><br>9.8 d<br>9.6 b<br>9.0 c<br>9.7 d<br>9.8 d<br>9.7 d<br>9.7 g<br>9.2 h<br>3.1 1<br>5.9 j<br>9.4 K<br>4.3 l<br>15.0 m<br>9.2 n  | 0           0           12.5           12.5           12.5           12.5           13.2           13.2           13.2           13.2           13.2           13.2           13.2           13.2           13.2           13.2           13.2           13.2           11.3           6.7           18.5           12.6           13.2  | 16.4<br>0 ∞ ⊢ 0 ⊂ −<br>c e g o q<br>12.8<br>12.8<br>13.4<br>13.4<br>13.4<br>13.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>12.9<br>13.4<br>13.6<br>5<br>9.3<br>11.6<br>6.9<br>18.8   
   
   
   | 16.4<br>   | 16.8<br>13.0<br>13.0<br>11.8<br>13.7<br>13.3<br>9.2<br>13.7<br>13.2<br>6.8<br>9.6<br>11.8<br>7.2<br>19.0<br>13.7<br>13.7   
   | 17.2<br>13.3"   ower<br>0 0 0 0 0 0 0 0 0 0 0<br>0 0 0 0 0 0 0 0   | COSE<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>T<br>COSE<br>COSE<br>T<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE   | 12.8<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5<br>4.1<br>6.9<br>9.2<br>4.5<br>16.4   
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   | 15.8<br>-<br>  | 9. 4<br>7. 4<br>7. 7<br>7. 7<br>7 | 3         2           3         a           3         a           3         a           3         a           3         a           3         a           3         a           3         a           3         a           3  
      a           4         i           5         j           4         i           3         n           4         i           5         j           4         i           7         j           4         i           7         j           6         n           7         j           6         n           7         j           6         n           7         p  | ∞   
  | 13.1  | 13.1           13.1           13.1           10.2           9.2           10.7           10.4           7.1           10.7           10.3           5.2           7.4           9.2           10.3           10.3  | 13.4<br>13.4<br>10.3<br>10.3<br>10.3<br>10.8<br>10.8<br>10.8<br>10.8<br>10.4<br>5.3<br>7.5<br>9.3<br>5.7<br>15.0  
   | 13.8       10.6"       omore  | 12.5<br>COSE<br>0 1 - 0<br>0 f<br>9.8<br>9.8<br>9.8<br>10.2<br>10.0<br>6.7<br>10.3<br>9.9<br>4.8<br>5.1<br>14.5<br>9.9<br>9.9<br>9.9<br>9.9<br>9.9<br>9.9   | 5 10.2<br>5 10.2<br>5 10.2<br>5 10.2<br>6 10.2<br>6 10.2<br>6 10.2<br>7 10.2 |
| 12.2 z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.7 d<br>9.7 d<br>9.7 d<br>9.7 d<br>9.7 d<br>9.7 d<br>9.7 d<br>9.7 d<br>1.1 i<br>5.9 j<br>5.9 j<br>5.9 j<br>15.0 m<br>15.0 m<br>10.2 o<br>9.7 p<br>10.6 q   | 16.0           0           12.5           13.2           13.2           13.2           13.2           13.2           12.5           13.2           13.2           13.2           12.5           13.2           12.6           13.2           12.6           13.2           13.2  | 16.4         0       ∞       ~ </td <td>16.4         16.4         16.4         16.4         17.8         12.8         11.6         13.4         12.9         13.4         12.9         13.4         12.9         13.4         12.9         13.4         12.9         13.4         12.9         13.4         12.9         13.4         12.9</td> <td></td> <td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td> <td>COSE<br/>COSE<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T<br/>T</td> <td>12.8<br/>10.4<br/>10.4<br/>10.4<br/>9.2<br/>11.0<br/>10.6<br/>5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>11.0<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5<br/>10.5</td> <td>15.4<br/>0 wer<br/>0
wer<br/>12.1<br/>12.1<br/>10.9<br/>12.8<br/>12.4<br/>8.2<br/>12.8<br/>12.2<br/>5.9<br/>8.6<br/>10.9<br/>6.3<br/>18.1<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.1<br/>12.9<br/>12.8<br/>12.2<br/>12.8<br/>12.1<br/>12.9<br/>12.8<br/>12.2<br/>12.8<br/>12.1<br/>12.9<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.8<br/>12.2<br/>12.8<br/>12.8<br/>12.2<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12.8<br/>12</td> <td>15.2<br/>GGS<br/>GGS<br/>GGS<br/>GGS<br/>GGS<br/>GGS<br/>GGS<br/>GG</td> <td>14.8           e           11.7           10.5           12.0           7.8           12.4           11.8           5.5           8.2           10.5           5.9           17.7           11.8           12.4           11.8           12.4           11.8           12.4           11.8           12.4</td> <td>15.0<br/>w<br/>11.8<br/>11.8<br/>11.8<br/>12.5<br/>12.0<br/>12.5<br/>12.0<br/>12.5<br/>12.0<br/>12.8<br/>12.0<br/>12.5<br/>12.0<br/>12.5<br/>12.0<br/>12.5<br/>12.0<br/>12.5<br/>12.1<br/>12.5<br/>12.1<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.5<br/>12.</td> <td>N.         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<td>15.8<br/>z<br/>12.4<br/>12.4<br/>12.4<br/>12.4<br/>13.0<br/>12.6<br/>8.9<br/>13.0<br/>12.5<br/>6.1<br/>1.2<br/>6.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>12.5<br/>13.0<br/>13.0<br/>12.5<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0<br/>13.0</td> 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<td>∞           ∞           ∠           □           □           10.0           10.0           10.0           10.5           10.5           10.5           10.5           10.1           10.5           10.1           10.5</td> <td>13.1         N</td> <td>13.1         13.1         13.1         13.1         13.1         13.1         10.2         9.2         10.4         7.1         10.3         5.2         7.4         9.2         5.5         14.9         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.7         10.3         10.7         10.7</td> <td>13.4           13.4           1           1           10.3           9.3           10.8           10.8           10.8           10.8           10.8           10.8           10.9           10.8           10.4           10.4           10.4           10.4           10.4           10.4           10.4</td> <td>13.8 <math display="block">10.6"   ower  0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 0 m
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<b>b.6</b><br><b>b.6</b><br><b>b.6</b><br><b>b.6</b><br><b>b.6</b><br><b>b.6</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b><br><b>c.</b> | ∞           ∞           ∠           □           □           10.0           10.0           10.0           10.5           10.5           10.5           10.5           10.1           10.5           10.1           10.5   
   | 13.1         N  
   | 13.1         13.1         13.1         13.1         13.1         13.1         10.2         9.2         10.4         7.1         10.3         5.2         7.4         9.2         5.5         14.9         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.7         10.3         10.7         10.7   | 13.4           13.4           1           1           10.3           9.3           10.8           10.8           10.8           10.8           10.8           10.8           10.9           10.8           10.4           10.4           10.4           10.4           10.4           10.4           10.4   | 13.8 $10.6"   ower  0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 7 0 m 0 m 0 0 m 0 m 0 m 0 m 0 0 m$   
  | 12.5<br>Case<br>U f<br>9.8<br>9.8<br>8.8<br>10.3<br>10.0<br>6.7<br>10.3<br>9.9<br>4.8<br>7.0<br>8.8<br>5.1<br>14.5<br>9.9<br>9.10.3<br>9.0<br>10.3  | 5 10.2<br>5 10.2 |
| 12.2 Z<br>13.3<br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g<br>9.2 h<br>3.1 i<br>5.9 j<br>9.2 h<br>3.1 i<br>5.9 j<br>9.4 K<br>4.3 l<br>15.0 m<br>9.2 n<br>15.0 m<br>9.2 c<br>9.7 p<br>10.2 n<br>10.2 n<br>10.6 q<br>9.7 p<br>10.6 q<br>10.6   | 16.0           0           12.5           12.5           11.3           13.2           13.2           13.2           12.6           6.3           9.0           11.3           6.7           18.6           6.3           9.0           11.3           6.7           18.6           13.2           12.6           13.2           12.6           13.2           13.4  | 16.4         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         12.8       11.6         13.4       12.9         0       5         9.3       11.6         6.9       18.8         12.9       13.4         12.9       13.4         12.9       13.4         12.9       13.4         12.9       13.4  
   
   
   | <ul> <li>⊢</li> <li>⊢</li> <li>∽</li> <li>∽</li> <li>♂</li> <li>d</li> <li>12.8</li> <li>11.6</li> <li>13.4</li> <li>8.6</li> </ul>  |  | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  
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| 14.8           e           -           o           11.7           10.5           12.4           12.8           12.4           10.5           5.9           17.7           10.5           5.9           17.7           12.4           11.8           12.4           7.6   | 15.0<br>v<br>11.8<br>10.6<br>12.5<br>12.0<br>5.6<br>8.4<br>10.6<br>6.0<br>17.8<br>8.6<br>12.0<br>5.6<br>8.4<br>12.0<br>12.5<br>7.7<br>7.7  | N           0           11.6           10.4           11.6           10.4           11.7           11.8           7.7           11.7           11.6           11.7           11.2           11.7           10.4           11.7           12.2           7.7   
  | 14.8<br>y<br>y<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4<br>1.8<br>5.5<br>8.2<br>10.5<br>5.9<br>17.7<br>18.4<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5  
   | 15.8<br>z<br>12.4<br>11.2<br>13.0<br>12.5<br>6.1<br>8.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>13.0<br>12.5<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.     | 9. 4<br>7. 4<br>7. 7<br>7. 7<br>7 | 3         2           3         a           3         a           3         a           3         a           3         a           4         1           5         K           4         1           5         K           4         1           5         K           4         1           5         K           4         1           5         K           4         1           5         K           4         1           5         K           4         1           5         K           4         1           5         K           4         1           5         0         n           2         0         n           2         0         n           3         n         n           4         1         n           5         0         n           6         n         n           1         n         n  
   | ∞           ∞           ∞           ∞           10.0           10.0           10.0           10.2           6.9           10.5           10.1           5.0           7.2           9.0           5.3           14.7           10.5           10.1           10.5           6.7  | 13.1   
  | 13.1<br>13.1<br>10.2<br>9.2<br>10.2<br>9.2<br>10.7<br>10.4<br>7.1<br>10.7<br>10.3<br>5.2<br>7.4<br>9.2<br>5.5<br>14.9<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.5<br>10.7<br>10.9<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>1 | ↓         ↓             
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   | 16.4           n           of           12.8           11.6           13.4           13.9           13.4           12.9           6.5           9.3           11.6           6.9           18.8           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.1  |  | 17.2<br>13.3"   Ower<br>  
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   | 14.8         11.7         0         -         y         11.7         10.5         12.4         12.0         7.8         12.4         11.8         5.5         9.2         17.7         11.8         5.5         9.2         11.8         5.5         9.2         11.8         12.4         11.8         12.4         11.8         12.4         10.4   
  | 15.8<br>2<br>12.4<br>12.4<br>11.2<br>13.0<br>12.5<br>6.1<br>8.9<br>11.2<br>6.5<br>18.4<br>12.5<br>13.0<br>12.5<br>13.0<br>8.2<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>13.0<br>1 | 9. 4<br>9. 6<br>9. 4<br>9. 6<br>9. 7<br>9. 7      | • 6<br>• 6<br>• 6<br>• 6<br>• 6<br>• 6<br>• 6<br>• 6  
  | ∞<br>12.8<br>∞<br>10.0<br>10.0<br>9.0<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5  | 13.1         N       ∞         N       ∞         N       ∞         N       ∞         N       ∞         N       ∞         C       e         G       e         G       e         G       e         G       e    
    G       e         G       <  | 13.1         13.1         10.2         10.2         9.2         10.7         10.7         10.7         10.7         10.3         10.3         10.3         10.3         10.3         9.1         10.3         9.9  | 13.4           1           0.3           1           10.3           9.3           10.8           10.72           10.8           10.3           9.3           10.4           5.3           5.7           15.0           10.4           10.8           10.4           10.8           10.4           9.3  
  | 13.8       10.6"       lower       lower <t< td=""><td>12.5<br/>CCUSE<br/>CCUSE<br/>CCUSE<br/>CCUSE<br/>9.8<br/>9.8<br/>9.8<br/>9.8<br/>9.8<br/>9.8<br/>9.8<br/>10.0<br/>6.7<br/>10.3<br/>9.9<br/>4.8<br/>7.0<br/>8.8<br/>5.1<br/>14.5<br/>9.9<br/>9.0<br/>3.5<br/>5.5<br/>10.3<br/>10.0<br/>5.5<br/>10.3<br/>10.0<br/>5.5<br/>10.3<br/>10.0<br/>5.5<br/>10.3<br/>10.0<br/>5.5<br/>10.3<br/>10.0<br/>5.5<br/>10.3<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>10.0<br/>5.5<br/>5.5<br/>5.5<br/>5.5<br/>5.5<br/>5.5<br/>5.5</td><td>5 10.2<br/>5 10.2</td></t<> | 12.5<br>CCUSE<br>CCUSE<br>CCUSE<br>CCUSE<br>9.8<br>9.8<br>9.8<br>9.8<br>9.8<br>9.8<br>9.8<br>10.0<br>6.7<br>10.3<br>9.9<br>4.8<br>7.0<br>8.8<br>5.1<br>14.5<br>9.9<br>9.0<br>3.5<br>5.5<br>10.3<br>10.0<br>5.5<br>10.3<br>10.0<br>5.5<br>10.3<br>10.0<br>5.5<br>10.3<br>10.0<br>5.5<br>10.3<br>10.0<br>5.5<br>10.3<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>10.0<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5  | 5 10.2<br>5 10.2 |
| <b>13.3</b><br>9.8 a<br>9.6 b<br>9.0 c<br>9.7 d<br>9.8 e<br>6.4 f<br>9.7 g<br>9.2 h<br>3.1 i<br>5.9 j<br>9.2 h<br>3.1 i<br>5.9 j<br>9.4 K<br>4.3 l<br>15.0 m<br>9.2 n<br>0.2 n<br>15.0 m<br>9.2 n<br>10.6 q<br>0.2 n<br>10.6 q<br>10.6 q<br>10.6 s<br>5 s<br>6.5 s<br>0.5  | 16.0           0           12.5           12.5           11.3           13.2           13.2           12.5           11.3           13.2           12.6           6.3           9.0           11.3           6.7           18.6           13.2           12.6           13.2           12.6           13.2           12.6           13.2           12.5  | 16.4         ○       ∞       ~ </td <td>16.4           n           o           d           12.8           11.6           13.4           12.9           13.4           8.6           11.2           13.4           9.3           13.4           9.3           12.9           13.4           9.3           12.8           12.9           13.4           9.3           12.8           12.9</td> 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wer<br/>5<br/>12.1<br/>10.9<br/>12.1<br/>10.9<br/>12.8<br/>12.4<br/>8.2<br/>12.8<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.8<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.2<br/>12.</td>
<td>15.2<br/>CGS<br/>0<br/>12.0<br/>12.0<br/>10.8<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.1<br/>12.6<br/>12.1<br/>12.6<br/>12.1<br/>12.6<br/>12.1<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.6<br/>12.0<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.1<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.1<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6<br/>12.6</td> <td>14.8           e           -           c           f           r</td> <td>▼            w         11.8           10.6         12.5           12.1         8.0           12.5         12.0           5.6         8.4           10.65         12.5           7.7         10.55           8.4         11.8</td> <td>N           0           11.6           10.4           11.6           10.4           11.6           10.4           11.6           11.6           10.4           11.7           5.3           8.1           10.4           5.7           11.7           12.2           7.4           10.2           8.1           10.2           11.7           11.2           11.7           12.2           7.4           10.2           8.1           11.6</td> <td>14.8           ▼           ·<td>15.8<br/></td><td>9. 4<br/>7. 4<br/>7. 7<br/>7. 7<br/>7</td><td><b>b</b><br/><b>6</b><br/><b>7</b><br/><b>7</b><br/><b>9</b><br/><b>6</b><br/><b>8</b><br/><b>9</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b></td><td>∞         □         □         10.0         10.0         9.0         10.2         6.9         10.5         10.1         5.0         7.2         9.0         5.3         14.7         10.5         10.1         10.5         10.1         10.5         6.7         8.9         7.2         10.0</td><td>13.1<br/>13.1<br/>13.1<br/>10.2<br/>10.2<br/>9.2<br/>10.7<br/>10.4<br/>7.1<br/>10.7<br/>10.3<br/>5.2<br/>7.4<br/>9.2<br/>5.5<br/>14.9<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.2<br/>10.7<br/>10.2<br/>10.7<br/>10.3<br/>10.7<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2</td><td>13.1         13.1         13.1         10.2         9.2         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.3         5.5         14.9         10.3         10.7         10.3         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.2</td><td>13.4           13.4           1.1           1.1           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.4           5.7           15.0           10.4           10.8           10.4           10.8           10.4           10.8           7.0           9.2           7.5           10.3</td><td>13.8       10.6"       own      
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15.2<br>CGS<br>0<br>12.0<br>12.0<br>10.8<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.6<br>12.6<br>12.0<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.1<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6<br>12.6                      | 14.8           e           -           c           f           r | ▼            w         11.8           10.6         12.5           12.1         8.0           12.5         12.0           5.6         8.4           10.65         12.5           7.7         10.55           8.4         11.8                        
  | N           0           11.6           10.4           11.6           10.4           11.6           10.4           11.6           11.6           10.4           11.7           5.3           8.1           10.4           5.7           11.7           12.2           7.4           10.2           8.1           10.2           11.7           11.2           11.7           12.2           7.4           10.2           8.1           11.6   | 14.8           ▼           · <td>15.8<br/></td> <td>9. 4<br/>7. 4<br/>7. 7<br/>7. 7<br/>7</td> <td><b>b</b><br/><b>6</b><br/><b>7</b><br/><b>7</b><br/><b>9</b><br/><b>6</b><br/><b>8</b><br/><b>9</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b><br/><b>1</b></td> <td>∞         □         □         10.0         10.0         9.0         10.2         6.9         10.5         10.1         5.0         7.2         9.0         5.3         14.7         10.5         10.1         10.5         10.1         10.5         6.7         8.9         7.2         10.0</td> <td>13.1<br/>13.1<br/>13.1<br/>10.2<br/>10.2<br/>9.2<br/>10.7<br/>10.4<br/>7.1<br/>10.7<br/>10.3<br/>5.2<br/>7.4<br/>9.2<br/>5.5<br/>14.9<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.3<br/>10.7<br/>10.2<br/>10.7<br/>10.2<br/>10.7<br/>10.3<br/>10.7<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2<br/>10.2</td> <td>13.1         13.1         13.1         10.2         9.2         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.3         5.5         14.9         10.3         10.7         10.3         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.2</td> <td>13.4           13.4           1.1           1.1           10.3           10.3           10.3           10.3           10.3          
10.3           10.3           10.3           10.3           10.3           10.3           10.4           5.7           15.0           10.4           10.8           10.4           10.8           10.4           10.8           7.0           9.2           7.5           10.3</td> <td>13.8       10.6"       own       own</td> <td>12.5<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE<br/>COSE</td> <td>5 10.3<br/>5 10.3<br/>5 10.3<br/>5 10.3<br/>6 10.3<br/>6 10.3<br/>6 10.3<br/>6 10.3<br/>6 10.3<br/>6 10.3<br/>7 10.5<br/>7 10.5</td> | 15.8<br>   | 9. 4<br>7. 4<br>7. 7<br>7. 7<br>7 | <b>b</b><br><b>6</b><br><b>7</b><br><b>7</b><br><b>9</b><br><b>6</b><br><b>8</b><br><b>9</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b>   
   | ∞         □         □         10.0         10.0         9.0         10.2         6.9         10.5         10.1         5.0         7.2         9.0         5.3         14.7         10.5         10.1         10.5         10.1         10.5         6.7         8.9         7.2         10.0  | 13.1<br>13.1<br>13.1<br>10.2<br>10.2<br>9.2<br>10.7<br>10.4<br>7.1<br>10.7<br>10.3<br>5.2<br>7.4<br>9.2<br>5.5<br>14.9<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.3<br>10.7<br>10.2<br>10.7<br>10.2<br>10.7<br>10.3<br>10.7<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2<br>10.2   
  | 13.1         13.1         13.1         10.2         9.2         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.3         5.5         14.9         10.3         10.7         10.3         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.2   | 13.4           13.4           1.1           1.1           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.4           5.7           15.0           10.4           10.8           10.4           10.8           10.4           10.8           7.0           9.2           7.5           10.3   | 13.8       10.6"       own  
   | 12.5<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE<br>COSE  | 5 10.3<br>5 10.3<br>5 10.3<br>5 10.3<br>6 10.3<br>6 10.3<br>6 10.3<br>6 10.3<br>6 10.3<br>6 10.3<br>7 10.5<br>7 10.5 |
| 12.2         z           13.3         3           9.8         a           9.6         b           9.7         d           9.8         e           6.4         f           9.7         g           9.2         h           1.1         i           5.9         j           9.4         K           4.3         I           15.0         m           9.2         n           10.2         n           0.2         n           0.2         n           0.4         K           4.3         I           15.0         m           9.2         n           10.2         n           0.2         n           0.2         n           0.4         K           4.3         I           15.0         m           9.7         P           10.2         n           0.3         T           9.0         u           9.0         u           9.0         u           9.0   | 16.0         0         12.5         12.5         11.3         13.2         12.8         8.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         9.0         12.6         11.2         9.0         12.5  | 16.4         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         12.8       11.6         13.4       12.9         13.4       12.9         13.4       12.9         13.4       12.9         13.4       9.3         12.8       11.4         9.3       12.8  
   
   
   | 16.4           ▶           ♂           ♂           12.8           12.8           13.4           13.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.2   |
16.8<br>16.8<br>13.00<br>13.00<br>11.8<br>13.7<br>13.9<br>13.7<br>13.2<br>6.8<br>9.6<br>11.8<br>9.6<br>11.8<br>9.6<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.7<br>13.2<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13.7<br>13 | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$   | 15.6         COSE         12.2         12.2         11.0         12.2         11.0         12.9         12.4         6.0         8.8         11.0         8.8         11.0         8.8         11.0         8.8         11.0         8.8         11.0         8.8         11.0         8.1         10.9         8.8         12.1         10.1         10.2         11.1   | 12.8<br>10.4<br>10.4<br>10.4<br>10.4<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>10.5<br>4.1<br>6.9<br>9.2<br>11.0<br>10.6<br>6.5<br>11.0<br>0<br>10.5<br>11.0<br>6.3<br>9.0<br>10.4<br>9.8<br>10.4<br>9.8<br>11.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.  
   | 15.4<br>0wer<br>5<br>12.1<br>12.1<br>12.1<br>12.8<br>12.8<br>12.8<br>12.8<br>12.8<br>12.8<br>12.8<br>12.8<br>12.9<br>8.6<br>10.9<br>6.3<br>18.1<br>12.2<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.1<br>10.9<br>12.8<br>12.8<br>12.8<br>12.1<br>12.8<br>12.8<br>12.8<br>12.8<br>12.8<br>12.9<br>8.6<br>10.9<br>6.3<br>18.1<br>12.2<br>11.2<br>10.9<br>6.3<br>18.1<br>12.2<br>11.2<br>1.1<br>1.2<br>1.1<br>1.1<br>1.1   | 15.2<br>COS<br>1<br>12.0<br>12.0<br>12.0<br>12.6<br>12.2<br>8.1<br>12.6<br>12.2<br>8.1<br>12.6<br>12.2<br>8.5<br>10.8<br>6.1<br>18.0<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.1<br>12.6<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.2<br>8.1<br>12.1<br>8.5<br>10.8<br>6.1<br>1.1<br>12.6<br>12.1<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.0<br>12.2<br>1.2<br>1.2<br>1.2<br>1.2<br>1.2<br>1.2<br>1.  | 14.8           e           - |
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   | 15.8<br>z<br>12.4<br>12.4<br>11.2<br>13.0<br>12.5<br>6.1<br>8.9<br>11.2<br>6.5<br>18.4<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>12.5<br>13.0<br>13.2<br>13.0<br>13.2<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>11.0<br>12.5<br>13.0<br>13.2<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>13.0<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>11.0<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>12.5<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0<br>11.0     | 9.4<br>9.4<br>7.4<br>7.4<br>7.5<br>7.7<br>7.5<br>7.7<br>7.5<br>7.7<br>7.5<br>7.5  | B         Z  |
∞<br>□<br>□<br>10.0<br>10.0<br>9.0<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.1<br>5.0<br>7.2<br>9.0<br>7.2<br>9.0<br>7.2<br>9.0<br>7.2<br>9.0<br>7.2<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>1  | 13.1         N       ∞         N       ∞         N       ∞         N       ∞         C       e         10.2         9.2         10.7         10.4         7.1         10.3         5.2         7.4         9.2         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         6.9         9.1         7.4         10.2         9.8   
   | 13.1         13.1         13.1         10.2         9.2         10.7         10.7         10.7         10.7         10.3         10.3         10.3         10.7         10.3         10.7         10.3         10.7         9.2         9.10.3         10.7         9.9         10.3         10.7         6.9         9.1         7.4         10.2         9.1         9.1   | 13.4           1           0           1           10.3           9.3           10.8           9.3           10.4           5.3           7.5           9.3           10.4           5.3           7.5           9.3           10.4           5.3           7.5           9.3           10.4           10.8           10.4           9.9           9.2           7.5           10.3           9.9   | 13.8         10.6"         lower   
  | 12.5<br>COSE<br>0 1 1<br>0 1<br>0 9.8<br>9.8<br>9.8<br>9.8<br>10.2<br>10.0<br>6.7<br>10.3<br>9.9<br>4.8<br>5.1<br>14.5<br>9.9<br>9.9<br>10.3<br>6.5<br>8.7<br>7.0<br>9.8<br>8.7<br>9.9<br>9.9<br>9.9<br>10.3<br>6.5<br>8.7<br>7.0<br>9.8<br>9.8<br>8.8<br>9.9<br>9.9<br>9.9<br>9.9<br>9.9   | 5 10.2 6 10.2 7 0.2  |
| <b>13.3</b><br><b>9.8</b> a<br><b>9.6</b> b<br><b>9.0</b> c<br><b>9.7</b> d<br><b>9.7</b> d<br><b>9.7</b> d<br><b>9.7</b> d<br><b>9.8</b> e<br><b>6.4</b> f<br><b>9.7</b> d<br><b>9.7</b> d<br><b>1.1</b> i<br><b>5.9</b> j<br><b>1.1</b> i<br><b>5.9</b> j<br><b>1.2</b> d<br><b>1.1</b> i<br><b>5.0</b> d<br><b>1.1</b> c<br><b>1.5</b> d<br><b>1.7</b> d<br><b>8.5</b> s<br><b>1.1</b> c<br><b>1.5</b> d<br><b>1.7</b> d<br><b>8.5</b> s<br><b>1.1</b> c<br><b>1.5</b> d<br><b>1.7</b> d<br><b>8.5</b> s<br><b>1.1</b> c<br><b>1.5</b> d<br><b>1.7</b> d<br><b>1.5</b> d<br><b>1.7</b> d<br><b>1.7</b> d<br><b>1.5</b> d<br><b>1.7</b> d<br><b>1.5</b> d<br><b>1.7</b> d<br><b>1.7</b> d<br><b>1.5</b> d<br><b>1.7</b> | 16.0           0           6           12.5           11.3           13.2           13.2           13.2           13.2           13.2           13.2           13.2           12.5           13.2           12.6           6.3           9.0           11.3           6.7           18.5           13.2           12.6           13.2           8.4           11.2           9.0           12.5           12.5           12.5           12.7 | 16.4         0       ∞       ~ </td <td>16.4<br/>∽<br/>∽<br/>∩<br/>12.8<br/>11.6<br/>12.8<br/>12.9<br/>13.4<br/>12.9<br/>9.3<br/>11.6<br/>6.9<br/>9.3<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>12.9<br/>13.4<br/>12.9<br/>12.9<br/>13.4<br/>12.9<br/>13.4<br/>12.9<br/>12.9<br/>13.4<br/>12.9<br/>12.9<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7<br/>17.7</td> <td>16.8<br/>16.8<br/>13.0<br/>13.0<br/>13.0<br/>13.3<br/>9.2<br/>13.7<br/>13.2<br/>13.7<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.2<br/>13.7<br/>13.2<br/>13.7<br/>13.2<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>13.7<br/>1</td> <td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td> <td>15.6         COSE         1</td> <td>12.8<br/>to<br/>o<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i<br/>i</td> <td>15.4<br/>0 wer<br/>0 m<br/>0 m<br/>0 m<br/>0 m<br/>0 m<br/>0 m<br/>0 m<br/>0 m</td>
<td>15.2<br/>CCIS<br/>G<br/>G<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0<br/>12.0</td> <td>14.8           e          </td> <td>15.0<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*<br/>*</td> <td>14.6           N           0           X           11.6           10.4           12.2           11.7           5.3           10.4           5.7           11.7           12.2           11.7           12.7           11.7           12.7           11.7           12.2           7.4           10.2           8.1           11.0           10.2           8.1           11.0           11.0</td> <td>14.8<br/>9<br/>9<br/>11.7<br/>11.7<br/>10.5<br/>12.4<br/>12.0<br/>7.8<br/>12.4<br/>12.0<br/>12.4<br/>12.0<br/>12.4<br/>11.8<br/>5.5<br/>9<br/>17.7<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.8<br/>12.4<br/>11.6<br/>12.4<br/>11.2<br/>11.6<br/>12.6<br/>11.2<br/>11.6<br/>12.6<br/>11.2<br/>11.6<br/>12.6<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5<br/>14.5</td> <td>15.8<br/></td> <td>9. 4<br/>9. 4<br/>7. 4<br/>7. 7<br/>7. 8<br/>7. 7. 8<br/>7. 7. 8<br/>7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7</td> <td>3     Z       3     a       3     a       3     a       3     a       4     1       7     a       6     a       7     b       7     b       7     b       7     c       7     c       8     a       9     c       10     c       11     f       12     c       13     w</td> <td>∞         ∞         ∠         □         <t< td=""><td>13.1         N<!--</td--><td>13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         10.2         9.2         10.7         10.4         7.4         9.2         5.5         14.9         9.2         5.5         14.9         10.7         10.3         10.7         10.3         10.7         6.9         9.1         7.4         10.2         9.4         10.2         9.4         10.2         9.4</td><td>13.4<br/><sup>4</sup> ×<br/><sup>8</sup>
×<br/><sup>1</sup><br/>10.3<br/>10.3<br/>10.3<br/>10.5<br/>7.2<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4</td><td>13.8         10.6"         0m         0m</td><td>12.5         COSE         u       f         9.8         9.8         10.7         10.6         0.7         10.7         10.7         9.8         8.8         10.1         9.9         4.8         7.00         8.8         5.1         14.5         9.9         10.3         9.9         10.3         9.9         10.3         6.5         8.7         7.00         9.8         9.93         10.3         9.93         10.3         9.93         10.3         9.98         9.03         9.8         9.3         9.3         13.7</td><td>5 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2</td></td></t<></td>   
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14.8<br>9<br>9<br>11.7<br>11.7<br>10.5<br>12.4<br>12.0<br>7.8<br>12.4<br>12.0<br>12.4<br>12.0<br>12.4<br>11.8<br>5.5<br>9<br>17.7<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.8<br>12.4<br>11.6<br>12.4<br>11.2<br>11.6<br>12.6<br>11.2<br>11.6<br>12.6<br>11.2<br>11.6<br>12.6<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5<br>14.5  
   | 15.8<br>   | 9. 4<br>9. 4<br>7. 4<br>7. 7<br>7. 8<br>7. 7. 8<br>7. 7. 8<br>7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7  | 3     Z       3     a       3     a       3     a       3     a       4     1       7     a       6     a       7     b       7     b       7     b       7     c       7     c       8     a       9     c       10     c       11     f       12     c       13     w  
   | ∞         ∞         ∠         □ <t< td=""><td>13.1         N<!--</td--><td>13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         10.2         9.2         10.7         10.4         7.4         9.2         5.5         14.9         9.2         5.5         14.9         10.7         10.3         10.7         10.3         10.7         6.9         9.1         7.4         10.2         9.4         10.2         9.4         10.2         9.4</td><td>13.4<br/><sup>4</sup> ×<br/><sup>8</sup> ×<br/><sup>1</sup><br/>10.3<br/>10.3<br/>10.3<br/>10.5<br/>7.2<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4</td><td>13.8         10.6"         0m         0m</td><td>12.5         COSE         u       f         9.8         9.8         10.7         10.6         0.7         10.7         10.7         9.8         8.8         10.1         9.9         4.8         7.00         8.8         5.1         14.5         9.9         10.3         9.9         10.3         9.9         10.3         6.5         8.7         7.00         9.8         9.93         10.3         9.93         10.3         9.93         10.3         9.98         9.03         9.8         9.3         9.3         13.7</td><td>5 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2</td></td></t<> | 13.1         N </td <td>13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         10.2         9.2         10.7         10.4         7.4         9.2         5.5         14.9         9.2         5.5         14.9         10.7         10.3         10.7         10.3         10.7         6.9         9.1         7.4         10.2         9.4         10.2         9.4         10.2         9.4</td> <td>13.4<br/><sup>4</sup> ×<br/><sup>8</sup>
×<br/><sup>1</sup><br/>10.3<br/>10.3<br/>10.3<br/>10.5<br/>7.2<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.5<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.8<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4<br/>10.4</td> <td>13.8         10.6"         0m         0m</td> <td>12.5         COSE         u       f         9.8         9.8         10.7         10.6         0.7         10.7         10.7         9.8         8.8         10.1         9.9         4.8         7.00         8.8         5.1         14.5         9.9         10.3         9.9         10.3         9.9         10.3         6.5         8.7         7.00         9.8         9.93         10.3         9.93         10.3         9.93         10.3         9.98         9.03         9.8         9.3         9.3         13.7</td> <td>5 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 10.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2<br/>7 12.2</td> | 13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         13.1         10.2         9.2         10.7         10.4         7.4         9.2         5.5         14.9         9.2         5.5         14.9         10.7         10.3         10.7         10.3         10.7         6.9         9.1         7.4         10.2         9.4         10.2         9.4         10.2         9.4  | 13.4<br><sup>4</sup> ×<br><sup>8</sup> ×<br><sup>1</sup><br>10.3<br>10.3<br>10.3<br>10.5<br>7.2<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.8<br>10.4<br>10.4<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.5<br>10.4<br>10.8<br>10.4<br>10.5<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.8<br>10.4<br>10.4<br>10.4<br>10.8<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4<br>10.4 | 13.8         10.6"         0m  
  | 12.5         COSE         u       f         9.8         9.8         10.7         10.6         0.7         10.7         10.7         9.8         8.8         10.1         9.9         4.8         7.00         8.8         5.1         14.5         9.9         10.3         9.9         10.3         9.9         10.3         6.5         8.7         7.00         9.8         9.93         10.3         9.93         10.3         9.93         10.3         9.98         9.03         9.8         9.3         9.3         13.7   | 5 10.2<br>7 10.2<br>7 10.2<br>7 10.2<br>7 10.2<br>7 10.2<br>7 10.2<br>7 10.2<br>7 10.2<br>7 12.2<br>7 12.2<br>7 12.2<br>7 12.2<br>7 12.2<br>7 12.2   |
| 12.2         z           13.3         3           9.8         a           9.6         b           9.7         d           9.8         e           6.4         f           9.7         g           9.2         h           1.1         i           5.9         j           9.4         K           4.3         I           15.0         m           9.2         n           10.2         n           0.2         n           0.2         n           0.4         K           4.3         I           15.0         m           9.2         n           10.2         n           0.2         n           0.2         n           0.4         K           4.3         I           15.0         m           9.7         P           10.2         n           0.3         T           9.0         u           9.0         u           9.0         u           9.0   | 16.0         0         12.5         12.5         11.3         13.2         12.8         8.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         12.6         13.2         9.0         12.6         11.2         9.0         12.5  | 16.4         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         0       ∞         12.8       11.6         13.4       12.9         13.4       12.9         13.4       12.9         13.4       12.9         13.4       9.3         12.8       11.4         9.3       12.8  
   
   
   | 16.4           ▶           ♂           ♂           12.8           12.8           13.4           13.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.9           13.4           12.2   |
16.8<br>16.8<br>11<br>13.00<br>11.8<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.7<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.0<br>13.2<br>13.0<br>13.2<br>13.0<br>13.0<br>13.2<br>13.0<br>13.0<br>12.5<br>18.0<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>1 | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$   | Cdse<br>Cdse<br>T<br>15.6<br>T<br>Cdse<br>T<br>12.2<br>11.0<br>12.9<br>12.5<br>8.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.5<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.4<br>12.9<br>12.7<br>12.9<br>12.4<br>12.9<br>12.7<br>12.9<br>12.4<br>12.9<br>12.7<br>12.9<br>12.7<br>12.7<br>12.7<br>12.7<br>12.7<br>12.7<br>12.7<br>12.7  | 12.8<br>to<br>o<br>i<br>i<br>i<br>i<br>i<br>i<br>i<br>i<br>i<br>i<br>i<br>i<br>i   
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 
   
   | 15.8<br>   | 9. 4<br>9. 4<br>7. 4<br>7. 7<br>7. 8<br>7. 7. 8<br>7. 7. 8<br>7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7  | B         C           B         0           B         0           B         0           B         0           C         0           B         0           C         0  |
∞<br>□<br>□<br>10.0<br>10.0<br>9.0<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.1<br>5.0<br>7.2<br>9.0<br>7.2<br>9.0<br>7.2<br>9.0<br>7.2<br>9.0<br>7.2<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>1  | 13.1         N       ∞         N       ∞         N       ∞         N       ∞         C       e         10.2         9.2         10.7         10.4         7.1         10.3         5.2         7.4         9.2         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         10.3         10.7         6.9         9.1         7.4         10.2         9.8   
   | 13.1         13.1         13.1         10.2         9.2         10.7         10.7         10.7         10.7         10.3         10.3         10.3         10.7         10.3         10.7         10.3         10.7         9.2         9.10.3         10.7         9.9         10.3         10.7         6.9         9.1         7.4         10.2         9.1         9.1   | 13.4           13.4           13.4           1           1           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.3           10.5           7.5           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.8           10.4           10.3           9.9           14.1           9.9   | 13.8         10.6"         lower   
  | 12.5         COSE         u       -         9.8         9.8         10.0         0.1         0.2         0.3         0.4         9.8         8.8         10.0         9.9         4.8         5.1         14.5         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.9         10.3         9.8         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3   | 5 10.2<br>5 10.2 |

	12.0	12.2	12.2	12.5	12.8	11.7	9.8	11.6	11.4	11.2	11.3	11.0	11.2	11.8
15.4 w	17.4	17.7	17.7	18.0	18.2	17.2	15.3	17.0	16.9	16.6	16.8	16.5	16.6	17.3
10.2 ×	12.0	12.2	12.2	12.5	12.8	11.7	9.8	11.6	11.4	11.2	11.3	11.0	11.2	11.8
10.4 y	12.2	12.5	12.5	12.8	13.0	12.0	10.1	11.8	11.7	11.4	11.6	11.3	11.4	12.1
8.1 z	10.6	10.9	10.9	11.2	11.4	10.4	8.5	10.2	10.1	9.8	10.0	9.7	9.8	10.5
					8" lower ca	se t	o lo	wer d	case					
	6	40804	œ	80	4 4 8 2 0 6 4 2 8	8	ъ	-	6	-	м	N	N	6
8	പ്	00000	5 G	·	ณ ณ ณ ณ ณ ณ ณ ณ ณ	з <b>.</b>	m.	പ്	m.	ق	்	<b>.</b>	و	4
	a	cegoq		i	bhklmnpru	f	i	s	t	v	w	×	y	z
5.9 a	7.5	7.7	7.7	7.8	8.0	7.4	6.2	7.3	7.2	7.0	7.1	7.0	7.0	7.4
5.8 b	7.5	7.7	7.7	7.8	8.0	7.4	6.2	7.3	7.2	7.0	7.1	7.0	7.0	7.4
5.4 C	6.8	7.0	7.0	7.1	7.3	6.6	5.5	6.6	6.5	6.3	6.4	6.2	6.3	6.7
5.8 d	7.9	8.1	8.1	8.2	8.4	7.8	6.6	7.7	7.6	7.4	7.5	7.4	7.4	7.8
5.9 e	7.7	7.8	7.8	8.0	8.2	7.5	6.4	7.4	7.4	7.2	7.3	7.1	7.2	7.6
3.8 f	5.2	5.4	5.4	5.5	5.7	5.0	3.9	5.0	4.9	4.7	4.8	4.6	4.7	5.1
5.8 g	7.9	8.1	8.1	8.2	8.4	7.8	6.6	7.7	7.6	7.4	7.5	7.4	7.4	7.8
5.5 h	7.6	7.8	7.8	7.9	8.1	7.4	6.3	7.4	7.3	7.1	7.2	7.0	7.1	7.5
1.8 i	3.8	3.9	3.9	4.1	4.2	3.6	2.5	3.5	3.4	3.3	3.4	3.2	3.3	3.7
3.5 j	5.4	5.6	5.6	5.8	5,9	5.3	4.2	5.2	5.1	5.0	5.0	4.9	5.0	5.4
5.7 K	6.8	7.0	7.0	7.1	7.3	6.6	5.5	6.6	6.5	6.3	6.4	6.2	6.3	6.7
2.6	4.0	4.2	4.2	4.3	4.5	3.8	2.7	3.8	3.7	3.5	3.6	3.4	3.5	3.9
9.0 m	11.1	11.3	11.3	11.4	11.6	11.0	9.8	10.9	10.8	10.6	10.7	10.6	10.6	11.0
5.5 n	7.6	7.8	7.8	7.9	8.1	7.4	6.3	7.4	7.3	7.1	7.2	7.0	7.1	7.5
6.2 0	7.9	8.1	8.1	8.2	8.4	7.8	6.6	7.7	7.6	7.4	7.5	7.4	7.4	7.8
5.8 p	7.6	7.8	7.8	7.9	8.1	7.4	6.3	7.4	7.3	7.1	7.2	7.0	7.1	7.5
6.4 q	7.9	8.1	8.1	8.2	8.4	7.8	6.6	7.7	7.6	7.4	7.5	7.4	7.4	7.8
3.7 r	5.0	5.2	5.2	5.4	5.5	4.9	3.8	4.8	4.7	4.6	4.6	4.5	4.6	5.0
5.1 s	6.7	6.9	6.9	7.0	7.2	6.6	5.4	6.5	6.4	6.2	6.3	6.2	6.2	6.6
3.9 t	5.4	5.6	5.6	5.8	5.9	5.3	4.2	5.2	5.1	5.0	5.0	4.9	5.0	5.4
5.4 u	7.5	7.7	7.7	7.8	8.0	7.4	6.2	7.3	7.2	7.0	7.1	7.0	7.0	7.4
6.1 V	7.2	7.4	7.4	7.5	7.7	7.0	5.9	7.0	6.9	6.7	6.8	6.6	6.7	7.1
9.3 w	10.5	10.6	10.6	10.8	11.0	10.3	9.2	10.2	10.2	10.0	10.1	9.9	10.0	10.4
6.2 X	7.2	7.4	7.4	7.5	7.7	7.0	5.9	7.0	6.9	6.7	6.8	6.6	6.7	7.1
6.2 y	7.4	7.5	7.5	7.7	7.8	7.2	6.1	7.1	7.0	6.9	7.0	6.8	6.9	7.3
4.9 z	6.4	6.6	6.6	6.7	6.9	6.2	5.1	6.2	6.1	5.9	6.0	5.8	5.9	6.3

#### NOTE: ALL DIMENSIONS ARE IN INCHES.

DEPARTMENT	TH OF PENNSYL 5 OF TRANSPORTA 7 safety and traffic eng	TION
- · · ·	CING CHARTS	
DIRECT APPLIE	ED LETTERS & N	NUMERAL
_	OWER CASE EW HIGHWAY 5V	VR
RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 11 OF
CHIEF, TRAFFIC ENGINEERING AND	CHIEF HIGHWAY ENGINEER	TC-8700

ENGLISH UNITS

C	case	to I	ower	cas	е				
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			9		~	-	~	~	
u	f	j	s	t	V	w	×	У	z
	9.8	8.3	9.6	9.5	9.3	9.4	9.2	9.3	9.9
	9.8	8.3	9.6	9.5	9.3	9.4	9.2	9.3	9.9
	8.8	7.3	8.7	8.6	8.4	8.5	8.3	8.4	8.9
	10.3	8.8	10.2	10.1	9.9	10.0	9.8	9.9	10.4
	10.0	8.5	9.9	9.8	9.5	9.6	9.4	9.5	10.1
	6.7	5.2	6.6	6.5	6.3	6.4	6.1	6.3	6.8
	10.3	8.8	10.2	10.1	9.9	10.0	9.8	9.9	10.4
	9.9	8.4	9.8	9.6	9.4	9.5	9.3	9.4	10.0
	4.8	3.3	4.7	4.6	4.3	4.5	4.2	4.3	4.9
	7.0	5.5	6.9	6.8	6.6	6.7	6.5	6.6	7.1
	8.8	7.3	8.7	8.6	8.4	8.5	8.3	8.4	8.9
	5.1	3.6	5.0	4.9	4.7	4.8	4.6	4.7	5.2
	14.5	13.0	14.4	14.3	14.1	14.2	14.0	14.1	14.6
	9.9	8.4	9.8	9.6	9.4	9.5	9.3	9.4	10.0
	10.3	8.8	10.2	10.1	9.9	10.0	9.8	9.9	10.4
	9.9	8.4	9.8	9.6	9.4	9.5	9.3	9.4	10.0
	10.3	8.8	10.2	10.1	9.9	10.0	9.8	9.9	10.4
	6.5	5.0	6.4	6.3	6.0	6.1	5.9	6.0	6.6
	8.7	7.2	8.6	8.5	8.3	8.4	8.2	8.3	8.8
	7.0	5.5	6.9	6.8	6.6	6.7	6.5	6.6	7.1
	9.8	8.3	9.6	9.5	9.3	9.4	9.2	9.3	9.9
	9.3	7.8	9.2	9.1	8.9	9.0	8.8	8.9	9.4
	13.7	12.2	13.6	13.5	13.3	13.4	13.1	13.3	13.8
	9.3	7.8	9.2	9.1	8.9	9.0	8.8	8.9	9.4
	9.5	8.1	9.4	9.3	9.1	9.2	9.0	9.1	9.6
	8.3	6.8	8.2	8.1	7.8	8.0	7.7	7.8	8.4

<	ise .	to Ic	wer	case					
•	~	0	N	80	$\sim$	9	M	ŝ	œ
	7.	7.	10.	7.	12.	18.	12.	12.	<b>б</b>
	f	j	s	t	v	w	×	У	z
	14.7	12.5	14.6	14.4	14.1	14.2	13.9	14.1	14.9
	14.7	12.5	14.6	14.4	14.1	14.2	13.9	14.1	14.9
	13.3	11.0	13.1	13.0	12.6	12.8	12.5	12.6	13.4
	15.5	13.3	15.4	15.2	14.9	15.0	14.7	14.9	15.7
	15.0	12.8	14.9	14.7	14.4	14.6	14.2	14.4	15.2
	10.1	7.8	9.9	9.8	9.4	9.6	9.3	9.4	10.2
1	15.5	13.3	15.4	15.2	14.9	15.0	14.7	14.9	15.7
	14.9	12.6	14.7	14.6	14.2	14.4	14.1	14.2	15.0
]	7.2	5.0	7.0	6.9	6.6	6.7	6.4	6.6	7.4
	10.6	8.3	10.4	10.2	9.9	10.1	9.8	9.9	10.7
	13.3	11.0	13.1	13.0	12.6	12.8	12.5	12.6	13.4
	7.7	5.4	7.5	7.4	7.0	7.2	6.9	7.0	7.8
	21.9	19.7	21.8	21.6	21.3	21.4	21.1	21.3	22.1
	14.9	12.6	14.7	14.6	14.2	14.4	14.1	14.2	15.0
	15.5	13.3	15.4	15.2	14.9	15.0	14.7	14.9	15.7
	14.9	12.6	14.7	14.6	14.2	14.4	14.1	14.2	15.0
	15.5	13.3	15.4	15.2	14.9	15.0	14.7	14.9	15.7
J	9.8	7.5	9.6	9.4	9.1	9.3	9.0	9.1	9.9
1	13.1	10.9	13.0	12.8	12.5	12.6	12.3	12.5	13.3
	10.6	8.3	10.4	10.2	9.9	10.1	9.8	9.9	10.7
1	14.7	12.5	14.6	14.4	14.1	14.2	13.9	14.1	14.9
1	14.1	11.8	13.9	13.8	13.4	13.6	13.3	13.4	14.2
	20.6	18.4	20.5	20.3	20.0	20.2	19.8	20.0	20.8
	14.1	11.8	13.9	13.8	13.4	13.6	13.3	13.4	14.2
	14.4	12.2	14.2	14.1	13.8	13.9	13.6	13.8	14.6
	12.5	10.2	12.3	12.2	11.8	12.0	11.7	11.8	12.6

		24" UF	PER CASE to 18	3" I	ower	case		
$\overline{1}$	8	5.2 5.3 5.8	15.3 4.5 4.5 25.4 15.3 15.3 15.3	9.8 3.7	8.4	15.2 12.0 17.9 19.4	8.6	5.8
24			- <sup>7</sup> - <sup>7</sup> ∼	f w	i	 s t v y	×	z
24.0	A	29.6	30.4	29.3	27.5	28.5 27.8	28.5	29.8
19.1	В	25.8	27.7	25.4	23.6	25.2 24.3		25.9
19.1	C	25.4	26.9	24.8		24.7		25.6
19.1	D	25.2	27.1	25.1	22.9	24.7	25.1	25.4
17.7	Е	24.1	25.6	23.5	21.8	23.3		24.2
17.6	F	20.6	23.6	21.3		20.9	21.1	22.1
19.2	G	25.6	27.1	25.0	23.3	24.8		25.7
19.2	Н	27.5	29.0	27.1	25.6	26.8	27.2	27.6
4.8	Ι	13.1	14.6	12.7		12.4	12.8	13.2
18.2	J	26.2	26.8	25.8	24.3	25.3		26.4
19.7	Κ	24.5	26.8	24.2	22.4	23.9	24.3	24.9
17.7	L	22.6	24.8		20.5	22.0	22.3	
22.2	М	30.5	32.0	30.1	28.6	29.8	30.2	
19.2	Ν	27.5	29.0	27.1	25.6	26.8		27.6
20.0	0	26.1	28.0	26.0		25.6		26.3
19.2	Ρ	25.0	26.0	24.6		24.1		24.8
20.0	Q	26.1	28.0		23.8	25.6	26.0	
19.2	R	25.3	27.2	25.2		24.8		25.6
19.2	S	24.8	26.8	24.5		24.2	24.6	
17.7	T	22.2	24.8	21.8	21.1	22.2		23.0
19.2	U	27.2	27.8		25.3	26.3		27.5
21.9	۷	26.0	28.7	26.4		26.9		27.7
25.4	W	31.0	31.7	30.6		29.9 29.1		31.1
20.7	Х	26.3	27.1	26.0	24.2	25.2 24.5		26.5
24.0	Y	27.0	30.0		26.6	26.9		28.9
19.2	Ζ	26.7	28.2	26.5	24.5	26.3	26.7	27.1

		20" UI	PPER CASE to 15	5" I	ower	case		
	5	- 8 9	8 8 9 8 7 8 8 8	- 8	0	906-	2 2	-
	ן כו		12.8 3.8 3.8 3.8 3.8 3.8 12.8 9.8 9.8 9.8	ക്ത്	l .	16.	പ്	m
20				-			-	-
20	$\overline{\ }$	acqeàod	bhiklmnpru	f w	j	s t v y	×	Z
20.0	Α	24.8	25.3	24.4	23.0	23.8 23.1	23.8	24.9
15.9	В	21.5	23.0	21.1	19.6	21.0 20.3	20.3	21.6
15.9	С	21.1	22.4	20.8	19.4	20.6	20.9	21.4
15.9	D	21.0	22.6	20.9	19.1	20.6	20.9	21.1
14.8	Е	20.0	21.3	19.6	18.3	19.5	19.8	20.3
14.6	F	17.1	19.6	17.8	17.1		17.6	18.4
16.0	G	21.3	22.5	20.9	19.5	20.8	21.0	21.5
16.0	Н	22.9	24.1	22.5	21.3	22.4	22.8	23.0
4.0	Ι	10.9	12.1	10.5	9.3	10.4	10.8	11.0
15.1	J	21.9	22.3	21.5	20.3		21.4	22.0
16.4	Κ	20.4	22.4	20.1	18.8	20.0	20.3	20.8
14.8	L	18.8	20.8	18.5	17.1	18.4	18.6	19.1
18.5	М	25.4	26.6	25.0	23.8	24.9	25.3	25.5
16.0	Ν	22.9	24.1	22.5	21.3	22.4	22.8	23.0
16.6	0	21.8	23.4	21.6	19.9	21.4	21.6	21.9
16.0	Ρ	20.9	21.6	20.5	18.5	20.0	20.4	20.8
16.6	Q	21.8	23.4	21.6	19.9		21.6	21.9
16.0	R	21.1	22.8	21.0	19.3	20.8	21.0	21.3
16.0	S	20.8	22.4	20.4	19.1	20.3	20.5	20.9
14.8	T	18.5	20.8	18.3	17.5	18.5	18.8	19.1
16.0	U	22.8	23.1	22.4	21.1	22.0	22.3	22.9
18.3	٧	21.8	23.9	22.0	21.3	22.5	22.8	23.1
21.1	W	25.9	26.4	25.5	24.1	24.9 24.3	24.9	26.0
17.3	Х	22.0	22.5	21.6	20.3	21.0 20.4	21.0	22.1
20.0	Y	22.5	25.0	23.1	22.3	22.4	22.8	24.0
16.0	Ζ	22.3	23.5	22.1	20.4	22.0	22.3	22.5

		18" 10	ower case to 1	3" I	ower	case		
18	5	D 15.2 D 15.3 D 15.8 D 15.8	7     15.3       7     15.2       15.2     15.2       15.2     15.3       15.3     15.3       11.7     15.3       11.7     15.3	J 9.8 € 23.7	. 8.4	<pre>% 15.2 + 12.0 &lt; 17.9 &lt; 19.4</pre>	× 18.6	n 15.8
15.2	a	22.4	24.3	22.0	20.4	21.9	22.3	22.7
15.3	b	20.6	22.6	20.2		19.9		20.7
15.2	c	20.8	22.7	20.4	18.7	20.2		20.9
15.3	d	22.6	24.4	22.2		22.1		22.8
15.3	е	20.9	22.8	20.6		20.3	20.7	21.1
9.8	f	15.0	17.0	14.6	12.9	14.4	14.8	15.1
15.3	g	22.6	24.4	22.2	20.6	22.1	22.4	22.8
15.3	h	22.6	24.4	22.2		22.1		22.8
4.5	i	11.8	13.6	11.4		11.3	11.6	12.0
8.4	j	15.7	17.5	15.3	13.7	15.2	15.5	15.9
15.2	k	20.4	22.4		20.0 18.3 19.8			20.5
4.5		11.8	13.6	11.4		11.3		12.0
25.4	m	32.6	34.5	32.2		30.6 32.1		32.9
15.3	n	22.6	24.4	22.2		22.1		22.8
15.8	0	21.0	23.0	20.6		20.4		21.1
15.3	Ρ	20.6	22.6	20.2		19.9		20.7
15.3	q	22.6	24.4	22.2		22.1	22.4	22.8
11.7	r	15.2	17.3	15.1	13.2	14.7	15.1	15.5
15.2	s	20.4	22.4	20.0		19.8	20.2	
12.0	†	17.4	19.5	17.0	15.4	16.9		17.6
15.3	u	22.6	24.4	22.2	20.6	22.1		22.8
17.9	V	22.5	24.6	22.1	20.5	22.0		22.7
23.7	w	28.6	30.5	28.2		28.0	28.3	
18.6	×	23.6	25.5	23.2		23.1		23.9
19.4	У	24.0	26.1	23.6		23.5		24.2
15.8	Z	21.1	23.3	20.8	19.1	20.6	21.0	21.4

		15" le	ower case to 15	5" l	ower	case		
		• 6	8 8 9 8 8 8 8	- 8.	0	906-	. 5	-
15	5	12.	12. 12. 12. 12. 12. 12. 12. 12. 12. 12.	∞ <u>6</u>	~	110.12	15.	13
		acdegoq	bhiklmnpru	fw	j	s t v y	×	z
12.6	а	18.8	20.3	18.4	17.0	18.3	18.6	18.9
12.8	b	17.1	18.9	16.8	15.4	16.6	17.0	17.3
12.6	С	17.4	18.9	17.0	15.6	16.9	17.1	17.5
12.8	d	18.9	20.4	18.5	17.1	18.4	18.8	19.0
12.8	е	17.5	19.0	17.1	15.8	17.0	17.3	17.6
8.1	f	12.5	14.3	12.1	10.8	12.0	12.4	12.6
12.8	g	18.9	20.4	18.5	17.1	18.4	18.8	19.0
12.8	h	18.9	20.4	18.5	17.1	18.4	18.8	19.0
3.8	i	9.9	11.4	9.5	8.1	9.4	9.8	10.0
7.0	j	13.1	14.6	12.8	11.4	12.6	13.0	13.3
12.6	k	17.0	18.8	16.6	15.3	16.5	16.9	17.1
3.8		9.9	11.4	9.5	8.1	9.4	9.8	10.0
21.1	m	27.3	28.8	26.9	25.5	26.8	27.1	27.4
12.8	n	18.9	20.4	18.5	17.1	18.4	18.8	19.0
13.1	0	17.5	19.3	17.1	15.8	17.0	17.4	17.6
12.8	Ρ	17.1	18.9	16.8	15.4	16.6	17.0	17.3
12.8	q	18.9	20.4	18.5	17.1	18.4	18.8	19.0
9.8	r	12.8	14.5	12.5	11.0	12.3	12.5	12.9
12.6	s	17.0	18.8	16.6	15.3	16.5	16.9	17.1
10.0	1	14.5	16.3	14.3	12.8	14.0	14.4	14.8
12.8	u	18.9	20.4	18.5	17.1	18.4	18.8	19.0
14.9	V	18.8	20.5	18.5	17.1	18.4	18.6	18.9
19.8	w	23.8	25.4	23.5	22.1	23.4	23.6	24.0
15.5	×	19.8	21.3	19.4	18.0	19.3	19.5	19.9
16.1	У	20.0	21.8	19.8	18.4	19.6	19.9	20.1
13.1	Z	17.6	19.4	17.4	15.9	17.1	17.5	17.9

	2	24 "	DΙ	GIT	tc	24	4 ''	DIG	ΙT			
24		19.8			19.1			8.0	19.1	22.2	19.1	
		0	2	3	6	9	1	5	4	7		
19.8	0			24	.8			26	• 0	24	.8	
8.0	1			14	. 1			14	.1	12.9		
19.1	2			24	.0			25	• 2	24.0		
19.1	3			24	.0			25	• 2	24	• 0	
22.2	4			27.2 27.2 23.9				• 9				
19.1	5			24	.0			25	.2	24	.0	
19.1	6			24	.0			25	• 2	24	• 0	
19.1	7			24	.0			24	• 0	20	• 7	
19.1	8			24	.0			25	.2	24	.0	
19.1	9			24	.0			25	• 2	24	• 0	

	2	20 "	DΙ	GIT	tc	20	) ''	DIG	ΙT			
20	)	16.5			15.9			6.6	15.9	18.5	15.9	
		0	2	3	6	8	9	1	5	4	7	
16.5	0			20	.6			21	.6	20	.6	
6.6	1			11	.8			11	.8	10.8		
15.9	2		20.0					21	.0	20	.0	
15.9	3			20	.0			21	• 0	20	.0	
18.5	4			22	• 6			22	• 6	19.9		
15.9	5			20	.0			21	.0	20	.0	
15.9	6			20	.0			21	.0	20	.0	
15.9	7			20	.0			20	.0	17	.3	
15.9	8			20	.0			21	.0	20	.0	
15.9	9			20	.0			21	• 0	20	.0	

	1	6 "	DI	GIT	tc	o 10	5 ''	DIG	ΙT			
16	5	13.4			12.8			5.3	12.8	14.9	12.8	
		0	2	3	6	8	9	1	5	4	7	
13.4	0			16	. 7			17	• 5	16	.7	
5.3	1			9.	. 4			9.	. 4	8.6		
12.8	2			16	5.1	.1 16.9				16	-	
12.8	3			16	5.1			16	• 9	16.1		
14.9	4			18	• 2			18	• 2	16.0		
12.8	5			16	5 <b>.</b> 1			16	.9	16	. 1	
12.8	6			16	5.1			16	• 9	16	-	
12.8	7			16	5 <b>.</b> 1			16	. 1	13	.9	
12.8	8			16	5.1			16	.9	16	. 1	
12.8	9			16	5.1			16	• 9	16	-	

NOTE:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. SEE SHEETS 2 THRC FOR CORRESPONDING METRIC UNITS.

	16" LIF	PPER CASE to 1	2" lower	case		7
12	10.1			-000	2.4	
16		ријки 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.		0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	× z	-
16.0 A 12.8 B	19.8 17.3	20.3		19.0 18.5 16.9 16.3	19.0 19.9 16.3 17.4	
12.8 C 12.8 D	17.0	18.0	16.6 15.5 16.8 15.4	16.5 16.5	16.8 17.1 16.8 17.0	
11.9 E 11.8 F	16.1 13.8	17.1 15.8	15.8 14.6 14.3 13.8	15.6 14.0	15.9 16.3 14.1 14.8	_
12.8 G 12.8 H	17.0	18.0 19.3	16.6 15.5 18.0 17.0	16.5 17.9	16.8 17.1 18.1 18.4	
3.3 I 12.1 J	8.8 17.5	9.8 17.9	8.5 7.5 17.3 16.3	8.4 16.9	8.6 8.9	
13.0 K 11.9 L	16.3 15.1	17.8 16.6	16.0 14.9 14.9 13.8	15.9 14.8	16.1 16.5	
14.8 M 12.8 N	20.3 18.3	21.3 19.3	20.0 19.0	19.9 17.9	20.1 20.4	
13.4 0 12.8 P	17.5 16.6	18.8 17.3	17.4 16.0 16.4 14.8	17.1 16.0	17.4 17.6 16.3 16.5	
13.4 Q 12.8 R	17.5	18.8 18.1	17.4 16.0 16.8 15.4	17.1 16.5	17.4 17.6 16.8 17.0	
12.8 S 11.9 T	16.5 14.9	17.9 16.6	16.3 15.3 14.6 14.1	16.1 14.9	16.4 16.6 15.1 15.4	
12.8 U 14.6 V	18.1 17.4	18.5 19.1	17.9 16.9 17.6 17.0	17.5 18.0	17.8 18.3 18.3 18.5	
16.9 W 13.9 X	20.6	21.1 18.1	17.4 16.3	19.9 19.4 16.9 16.4	16.9 17.8	
16.0 Y 12.8 Z	18.0 17.8	20.0 18.8	18.5 17.8 17.6 16.3	17.9 17.5	18.3 19.3 17.8 18.0	
12	10. 1 10. 3 10. 5	ower         case         to         1           0<	6.5 6.5 15.8 5.6	s t v 10. 1 COSE COSE t 11. 9 COSE	x 12.4 N 10.5	
10.1 d	15.0	16.3	14.8 13.6	14.6	14.9 15.1	
10.3 b 10.1 c	13.8 13.9	15.1 15.1	13.5 12.4	13.4	13.6 13.9 13.8 14.0 15.0 15.3	
10.3 d 10.3 e 6.5 f	15.1 14.0 10.0	16.4 15.3 11.4	14.9 13.8 13.8 12.6 9.8 8.6	14.8 13.6 9.6	13.9 14.1 9.9 10.1	
10.3 g 10.3 h	15.1 15.1	16.4	14.9 13.8 14.9 13.8	14.8	15.0 15.3 15.0 15.3	
3.0 i 5.6 j	7.9 10.5	9.1	7.6         6.5           10.3         9.1	7.5	7.8 8.0 10.4 10.6	
10.1 K 3.0 I	13.6 7.9	15.0 9.1	13.4 12.3 7.6 6.5	13.3 7.5	13.5 13.8 7.8 8.0	
16.9 m 10.3 n	21.8 15.1	23.0 16.4	21.5 20.4 14.9 13.8	21.4 14.8	21.6 21.9 15.0 15.3	
10.5 0 10.3 P	14.0 13.8	15.4 15.1	13.8 12.6 13.5 12.4	13.6 13.4	13.9 14.1 13.6 13.9	
10.3 9 7.8 r	15.1	16.4 11.5	14.9 13.8 10.0 8.8	14.8 9.8	15.0 15.3 10.0 10.3	
10.1 s 8.0 t	13.6	15.0 13.0	13.4 12.3 11.4 10.3	11.3	13.5 13.8 11.5 11.8	
10.3 U 11.9 V	15.1 15.0	16.4 16.4	14.9 13.8 14.8 13.6	14.8 14.6	15.0 15.3 14.9 15.1	
15.8 W 12.4 X 12.9 Y	19.0 15.8 16.0	20.3 17.0 17.4	18.8 17.6 15.5 14.4 15.8 14.6	18.6 15.4 15.6	18.9 19.1 15.6 15.9 15.9 16.1	
10.5 Z	14.1	15.5	13.9 12.8	13.8	14.0 14.3	
			NGLIS			37 A NTI A
		COMMONWE DEPARTMI BUREAU OF HIGH	ENT OF	TRANS	PORTA	TION
	DII	S RECT APPL	PACINO .IED L			IUMERALS
		UPPER SERIES E				
ES UNLESS IS 2 THROU NITS.	IGH 7 🛛 🔈	MENDED MAY 25, 2 Glu C Rove		ENDED MAY	f.	SHT. 12 OF 18
	OPERA	TRAFFIC ENGINEERING	AND CHIEF H	IGHWAY ENGINE	:EK	TC-8700C

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   | ower  |  | 4  
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  | JPPER CASE  |   |   |   |  
   |
| 10   |  | 8.5<br>8.5<br>8.4<br>8.5<br>8.5<br>6.5  |  
   | 4.6<br>8.5  |  | 10.  
   | 8<br>8   | 8  
  | 3   |  
  | 6.8<br>6.8<br>6.8<br>6.8  | 5.3<br>6.8<br>4.4<br>10.6   |   |   | 7.0  
   |
| 13.3   | acdegoq  | bhiklmnpr   | u f w  
   | j s   | t v y  | ×  
   | z  | 10.6   
  |   | l c d e g o q i  
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   |
| 13.4 A   | 16.5   | 16.9  | 16.3 1   
   | 5.4 15  | 5.9 15.5   | 15.9   
   | 16.6   | 10.8   
  |   | 13.2   
  | 13.6  |   | .3 12.8 12  |   |  
   |
| 10.5 B<br>10.6 C   | 14.3   | 15.3<br>15.0  | 14.0 1   
   | 3.0 14  | 1.0 13.4<br>13.8   | 13.4   
   | 14.4   | 8.5  
  |   | 11.5<br>11.3   
  | 12.3  | 11.3 10   | .5 11.3 10<br>.4 11.0   |   |  
   |
| 10.6 D   | 14.1   | 15.1  | 14.0 1   
   | 2.9   | 13.8   | 14.0   
   | 14.1   | 8.5  
  | D   | 11.3   
  | 12.1  | 11.2 10   | .3 11.0   | 11.2 11   | 1.3  
   |
| 9.9 E<br>9.9 F   | 13.4   | 14.3  | 13.11  
   |   | 13.0   |  
   | 13.5   | 7.9  
  |   | 10.7   
  | 11.4  | 10.4 9.<br>9.6 9.   |   |   |  
   |
| 10.6 G   | 11.5<br>14.1   | 13.3<br>15.0  | 12.0 1   
   |   | 11.8<br>13.8   |  
   | 14.3   | 8.5  
  |   | 9.2  
  | 10.6  | 11.1 10   |   |   |  
   |
| 10.8 H   | 15.4   | 16.1  | 15.1 1   
   | 4.3   | 15.0   | 15.3   
   | 15.5   | 8.6  
  | Н   | 12.3   
  | 13.0  | 12.1 11   | .5 12.1   | 12.2 12   | 2.4  
   |
| 2.6 I<br>10.1 J  | 7.3  | <u>8.0</u><br>14.9  | 7.0 6  
   |   | <u>6.9</u><br>14.1   |  
   | 7.4  | 2.3  
  | J   | 5.9  
  | <u>6.6</u><br>12.0  | <u>5.8</u> 5<br>11.6 10   |   |   |  
   |
| 10.9 K   | 13.6   | 14.9  | 13.4 1   
   | 2.5   | 13.3   | 13.5   
   | 13.8   | 8.8  
  | ĸ   | 10.9   
  | 11.9  | 10.8 10   | .0 10.7   | 10.8 11   | 1.1  
   |
| 9.8 L<br>12.3 M  | 12.5<br>16.9   | 13.8<br>17.6  | 12.3 1<br>16.6 1   
   |   | <u>12.1</u><br>16.5  |  
   | 12.6<br>17.0   | 7.9  
  |   | 10.0   
  | <u>11.1</u><br>14.3   | 9.9 9<br>13.5 12  |   |   |  
   |
| 10.6 N   | 15.3   | 16.0  | 15.0 1   
   | 4.1   | 14.9   |  
   | 15.4   | 8.5  
  | N   | 12.2   
  | 12.8  | 12.0 11   |   |   | 2.2  
   |
| 11.1 0   | 14.6   | 15.6  | 14.5 1   
   | 3.4   | 14.3   | 14.5   
   | 14.6   | 8.9  
  | 0   | 11.6   
  | 12.5  | 11.6 10   | .7 11.4   | 11.6 11   | 1.7  
   |
| 10.6 P<br>11.1 Q   | 13.9<br>14.6   | 14.4<br>15.6  | 13.6 1   
   |   | 13.4<br>14.3   |  
   | 13.8<br>14.6   | 8.5  
  |   | 11.1   
  | 11.5<br>12.5  | 10.9 9.<br>11.6 10  |   |   |  
   |
| 10.6 R   | 14.1   | 15.1  | 14.0 1   
   | 2.9   | 13.8   | 14.0   
   | 14.1   | 8.5  
  | R   | 11.3   
  | 12.1  | 11.2 10   | .3 11.0   | 11.2 11   | 1.3  
   |
| 10.6 S<br>9.9 T  | 13.8   | 14.9<br>13.9  | 13.5 1   
   | 2.8   | 13.5   |  
   | 13.9<br>12.8   | 8.5  
  |   | 11.0<br>9.9  
  | 11.9<br>11.1  | 10.8 10<br>9.7 9  | <u>.2</u> 10.7<br>4 9.9   |   | 1.1  
   |
| 10.7 U   | 15.2   | 15.4  | 14.9 1   
   |   | 14.7   |  
   | 15.3   | 8.5  
  |   | 12.1   
  | 12.3  | 11.9 11   |   |   |  
   |
| 12.1 V   | 14.4   | 15.9  | 14.6 1   
   | 4.1   | 15.0   | 15.1   
   | 15.4   | 9.8  
  | V   | 11.6   
  | 12.7  | 11.8 11   | .3 12.0   | 12.2 12   | 2.3  
   |
| 14.0 W<br>11.6 X   | 17.1   | 17.5<br>15.1  |  
   |   | 5.5 16.1<br>1.1 13.8   |  
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  |   | 13.7   
  | 14.1  |   |   | 3.0 13.3 13<br>1.0 11.3 11  |  
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| 13.4 Y   | 15.0   | 16.8  | 15.5 1   
   | 4.9   | 15.0   | 15.3   
   | 16.1   | 10.8   
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| 10.6 Z   | 14.8   | 15.6  | 14.6 1   
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| 8.4<br>8.5<br>8.5<br>8.5<br>8.5<br>6.5<br>6.5<br>8.5<br>9<br>8.5<br>h  | T         D         D           0         0         0         0         0           12.4         11.4         11.5         12.5         11.6           8.4         12.5         11.6         8.4         12.5           12.5         12.5         12.5         12.5  | 𝔅           | in         in  | 9         1.3           0.3         0.3           0.4         1.4           0.5         7.3           1.4         1.4   | Image: Non-State         Image: Non-State<   | ×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>8.4<br>12.5<br>12.5   | x       12.5       11.5       11.6       12.6       11.8       8.5       12.6       12.6   | 6.8         6.8         6.8         6.8         4.4         6.8         6.8         6.8   | a<br>b<br>c<br>d<br>e<br>f<br>g<br>h  | ∞         0               10.0            9.1            9.2            6.7            10.0            10.0   | x         x | Image: matrix of the state stat | m         T         m           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i           i         i         i         i   | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  | z<br>2<br>.2<br>.3<br>0.1<br>.3<br>.3<br>.8<br>0.1<br>0.1<br>0.1   |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 d<br>8.5 f<br>5.5 f<br>8.5 g<br>8.5 h<br>2.5 i   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | un un v u   | Image         Image <th< td=""><td>0         1.3           0.3         0.4           1.4         0.5           7.3         1.4           1.4         5.4</td><td>C         O   
     O         O</td><td>×<br/>12.4<br/>11.4<br/>11.4<br/>12.5<br/>11.5<br/>8.4<br/>12.5<br/>12.5<br/>6.5</td><td>x       12.5       11.5       11.6       12.6       11.8       8.5       12.6       12.6       6.6</td><td>6.8         6.8         6.8         6.8         6.8         6.8         6.8         6.8         2.0</td><td>d<br/>b<br/>c<br/>d<br/>e<br/>f<br/>g</td><td>∞         0               10.0            9.1            9.2            10.0            9.2            6.7            10.0            5.3        </td><td>x         x</td><td>m         o         o         o           10         0         1         0         1           1         1         0         1         1           0         1         1         1         1           0         1         1         1         1           0         1         1         1         1           0         1         1         1         1           0         9         9         9         9           0         1         1         8           0         9         9         9         1           0         9         9         9         1         1           0         9         9         9         9         9         9           0         9</td><td>0         0         T         0           0         0         0         0         0           0         0         1         9.7         2         8.8         3         3         9.0         1         9.7         3         9.0         8         6.5         5         1         9.7         3         9.0         8         6.5         5         1         9.7         3         5.0         0         7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         1         9.7         3         5.0         1         1         9.7         3         5.0         1         1         9.7         3         5.0         1         1         9.7         1         1         9.7         3         5.0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         <th1< th="">         1         1         1</th1<></td><td>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</td><td>z<br/>2<br/>.2<br/>.3<br/>.3<br/>.8<br/>0.1<br/>.3<br/>.8<br/>0.1<br/>0.1<br/>.4</td></th<> | 0         1.3           0.3         0.4           1.4         0.5           7.3         1.4           1.4         5.4   | C         O  | ×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>8.4<br>12.5<br>12.5<br>6.5  
   | x       12.5       11.5       11.6       12.6       11.8       8.5       12.6       12.6       6.6   | 6.8         6.8         6.8         6.8         6.8         6.8         6.8         6.8         2.0  
  | d<br>b<br>c<br>d<br>e<br>f<br>g   | ∞         0               10.0            9.1            9.2            10.0            9.2            6.7            10.0            5.3   | x         x | m         o         o         o           10         0         1         0         1           1         1         0     
   1         1           0         1         1         1         1           0         1         1         1         1           0         1         1         1         1           0         1         1         1         1           0         9         9         9         9           0         1         1         8           0         9         9         9         1           0         9         9         9         1         1           0         9         9         9         9         9         9           0         9  | 0         0         T         0           0         0         0         0         0           0         0         1         9.7         2         8.8         3         3         9.0         1         9.7         3         9.0         8         6.5         5         1         9.7         3         9.0         8         6.5         5         1         9.7         3         5.0         0         7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         1         9.7         3         5.0         1         1         9.7         3         5.0         1         1         9.7         3         5.0         1         1         9.7         1         1         9.7         3         5.0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th="">         1         1         1</th1<>   | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  | z<br>2<br>.2<br>.3<br>.3<br>.8<br>0.1<br>.3<br>.8<br>0.1<br>0.1<br>.4  
   |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 f<br>8.5 f<br>8.5 f<br>8.5 J<br>8.5 h<br>2.5 h<br>2.5 h<br>4.6 J<br>8.4 k  | T         D         D           0         0         0         0         0           12.4         11.4         11.5         12.5         11.6           8.4         12.5         11.6         8.4         12.5           12.5         12.5         12.5         12.5  | 𝔅           | in         in  | 0         1.3           j         s           1.3         0.3           0.4         1.4           0.5         7.3           1.4         1.4           5.4         7.5   | Image: Non-State         Image: Non-State<   | ×<br>12.4<br>11.4<br>11.4<br>11.5<br>8.4<br>12.5<br>12.5<br>6.5<br>8.6   | x       12.5       11.5       11.6       12.6       11.8       8.5       12.6       12.6   | 6.8         6.8         6.8         6.8         4.4         6.8         6.8         6.8   | a<br>b<br>c<br>d<br>e<br>f<br>g<br>h<br>i<br>j  | ∞         0               10.0            9.1            9.2            6.7            10.0            10.0   | x         x | Image: matrix of the state stat | 0         0         T         0           s         t         v         v           1         9.7         2         8.8           3         9.0         1         9.7           3         9.0         8         6.5           1         9.7         3         9.0           8         6.5         5         1           1         9.7         3         5.0           3         5.0         1         9.7           1         9.7         1         1   | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  | z<br>2<br>2<br>2<br>3<br>3<br>0<br>1<br>3<br>8<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 d<br>8.5 d<br>8.5 f<br>8.5 f<br>8.5 f<br>8.5 h<br>2.5 i<br>4.6 J<br>8.4 k<br>2.5 l   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | 𝔅           | $\begin{array}{c} \begin{matrix} \textbf{u} & \textbf{u} & \textbf{u} \\ \textbf{w} & \textbf{u} \\ \hline \textbf{w} \\ \textbf{u} \\ \hline \textbf{u} \\ \textbf{f} \\ \textbf{w} \\ \hline \textbf{u} \\ \hline \textbf{12.3} \\ 1 \\ 11.3 \\ 1 \\ 12.4 \\ 1 \\ 12.4 \\ 1 \\ 12.4 \\ 1 \\ 12.4 \\ 1 \\ 12.4 \\ 1 \\ 6.4 \\ 5 \\ 8.5 \\ 7 \\ 11.1 \\ 1.1 \\ 1.4 \\ 1 \\ 6.4 \\ 5 \\ 8.5 \\ 7 \\ 1 \\ 1.1 \\ 1.4
\\ 1.4 \\$  | 0         1.3           j         s           1.3         0.3           0.4         1.4           0.5         7.3           1.4         1.4           5.4         7.5           0.1         5.4   | C         O  | ×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>8.4<br>12.5<br>12.5<br>6.5<br>8.6<br>11.3<br>6.5   
  | x       12.5       11.5       11.6       12.6       11.8       8.5       12.6       12.6       6.6       8.8       11.4       6.6  | 6.8         6.8           6.8         6.8           6.8         6.8           4.4         6.8           6.8         2.0           3.8         6.8           2.0         3.8   
   | a<br>b<br>c<br>d<br>e<br>f<br>g<br>h<br>i<br>j<br>K<br>l  | ∞         0         0           ic         d         g         q           10.0         9.1         9.2           10.0         9.2         6.7           10.0         5.3         7.0           9.1         9.1         5.3   
   | x         x | m         o         o         o           0         0         0         0         0           0         1         0         0         0           0         1         0         0         0           0         1         0         0         0           0         1         0         0         0           0         9         9         9         9           0         1         8         0         1         8           0         9         1         4         6         9         6         8         9         8         8         5   | 0         0         T         0           0         0         0         0         0           0         0         0         0         0           1         9.7         3         9.0         0           8         6.5         1         9.7         3         9.0           8         6.5         1         9.7         3         5.0         1           1         9.7         3         5.0         1         6.7         2         8.8         3         3         5.0         1         6.7         2         3         3         5.0         1 <t< td=""><td>m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9.9           9.2         9.9           6.6         6.6           9.9         10           9.2         9.9           6.6         6.6           9.9         10           9.2         9.9           6.6         6.6           9.9         10           9.9         10           5.2         5.2           6.9         7           9.0         5.2           5.2         5.2</td><td>z<br/>2<br/>3<br/>0.1<br/>.3<br/>.8<br/>0.1<br/>0.1<br/>.4<br/>.1<br/>.2<br/>.4<br/>.4</td></t<>   | m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9.9           9.2         9.9           6.6         6.6           9.9         10           9.2         9.9           6.6         6.6           9.9         10           9.2         9.9           6.6         6.6           9.9         10           9.9         10           5.2         5.2           6.9         7           9.0         5.2           5.2         5.2  | z<br>2<br>3<br>0.1<br>.3<br>.8<br>0.1<br>0.1<br>.4<br>.1<br>.2<br>.4<br>.4  
  |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 e<br>5.5 f<br>8.5 g<br>8.5 h<br>2.5 i<br>4.6 j<br>8.4 k<br>2.5 l<br>14.1 m   | T         D         D           a         c         d         g         q           12.4         11.4         11.5         12.5           12.5         12.5         12.5           12.5         6.5         8.6           11.3         6.5         18.1  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | u         u         r           u         f         w           12.3         1           11.3         1           11.3         1           12.4         1           11.4         1           12.4         1           12.4         1           12.4         1           6.4         5           8.5         7           11.1         1           6.4         5           11.1         1           6.4         5           18.0         1   
   | 0         5           j         s           1.3         0.3           0.4         1.4           0.5         7.3           1.4         1.4           5.4         7.5           0.1         5.4           7.0         7.0   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | ×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>8.4<br>12.5<br>6.5<br>8.6<br>11.3<br>6.5<br>18.1  
   | x           12.5           11.6           12.8   | 6.8         6.8         6.8         6.8         6.8         6.8         6.8         2.0         3.8         6.8         2.0         11.3         3 </td <td>a<br/>b<br/>c<br/>d<br/>e<br/>f<br/>g<br/>h<br/>i<br/>j<br/>K<br/>-<br/>m</td> <td>∞         0         0           ic         d         g         q           10.0         9.1         9.2           10.0         9.2         6.7           10.0         5.3         7.0           9.1         5.3         14.5</td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>m         m</td> <td>0         0         T         0           i         i         i         0         0           i         s         t         v         v           1         9.7         3         9.0         1           3         9.0         1         9.7         3         1           8         6.5         1         9.7         3         5.0         1           3         5.0         1         9.7         3         5.0         1         6.7         2         8.8         3         3         5.0         1         6.7         2         8.8         3         5.0         0         1         4.2         7         1</td> <td>xx         xx           9,9         10           9,0         9,9           9,2         9,9           6,6         6,6           9,9         10           9,2         9,10           9,2         9,10           9,2         9,10           6,6         6,6           9,9         10           9,2         9,10           6,6         6,6           9,9         10           5,2         5,2           14,4         14</td> <td>z<br/>2<br/>3<br/>3<br/>0.1<br/>.3<br/>.3<br/>.3<br/>.3<br/>.4<br/>.1<br/>.2<br/>.4<br/>.4<br/>.4<br/>.4<br/>.4<br/>.4<br/>.4<br/>.4<br/>.4<br/>.4</td>  
  | a<br>b<br>c<br>d<br>e<br>f<br>g<br>h<br>i<br>j<br>K<br>-<br>m   | ∞         0         0           ic         d         g         q           10.0         9.1         9.2           10.0         9.2         6.7           10.0         5.3         7.0           9.1         5.3         14.5   
  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | m           | 0         0         T         0           i         i         i         0         0           i         s         t         v         v           1         9.7         3         9.0         1           3         9.0         1         9.7         3         1           8         6.5         1         9.7         3         5.0         1           3         5.0         1         9.7         3         5.0         1         6.7         2         8.8         3         3         5.0         1         6.7         2         8.8         3         5.0         0         1         4.2         7         1   | xx         xx           9,9         10           9,0         9,9           9,2         9,9           6,6         6,6           9,9         10           9,2         9,10           9,2         9,10           9,2         9,10           6,6         6,6           9,9         10           9,2         9,10           6,6         6,6           9,9         10           5,2         5,2           14,4         14   | z<br>2<br>3<br>3<br>0.1<br>.3<br>.3<br>.3<br>.3<br>.4<br>.1<br>.2<br>.4<br>.4<br>.4<br>.4<br>.4<br>.4<br>.4<br>.4<br>.4<br>.4  
   |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 d<br>8.5 d<br>8.5 f<br>8.5 f<br>8.5 f<br>8.5 h<br>2.5 i<br>4.6 J<br>8.4 k<br>2.5 l<br>14.1 m<br>8.6 o  | T         D         D           a         c         d         g         o         a           a         c         d         g         o         a  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | u         u            u         f         w           12.3         1           11.3         1           12.4         1           12.4         1           12.4         1           12.4         1           12.4         1           12.4         1           6.4         5           8.5         7           11.1         1           6.4         5           18.0         1           12.4         1           1.4         1  
   | 0         0         0           j         s         1.3         0.0.3           0.4         1.4         0.5         1.4           1.4         1.4         1.4         1.4           5.4         7.5         5.4         7.0           1.4         0.4         1.4         1.4   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | ×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>8.4<br>12.5<br>6.5<br>8.6<br>11.3<br>6.5<br>18.1<br>12.5<br>11.5                                      
   | x       z       12.5       11.5       11.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       11.4       6.6       18.3       12.6       11.6  | 6.8         6.8           6.8         6.8           6.8         6.8           2.0         3.8           6.8         2.0           11.3         6.8           7.0         7.0   
  | a<br>b<br>c<br>d<br>e<br>f<br>g<br>h<br>i<br>j<br>k<br>l<br>m<br>n<br>o   | ∞         0         0           ic         d         g         q         q           10.0         9.1         9.2         10.0         9.2           6.7         10.0         10.0         10.0         10.0         10.0           5.3         7.0         9.1         5.3         14.5         10.0         9.3  
  | x         x | m         o         o         o           1         0         1         0         1           1         0         1         0         1           1         0         1         0         1           1         1         0         1         0           1         0         1         0         0           1         0         1         0         0           0         1         0         0         0           0         1         0         0         0           0         1         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0   | 0         0         1         0           s         t         v         v           1         9.7         3         9.0           3         9.0         8         6.5           1         9.7         3         9.0           8         6.5         1         9.7           3         9.0         1         9.7           1         9.7         3         5.0           1         9.7         3         5.0           1         9.7         3         5.0           1         9.7         1         9.7           3         5.0         1         9.7           1         9.7         3         5.0           1         9.7         1         9.7           2         8.8         8         3           3         5.0         1         9.7           4         9.7         1         9.7   | xx         xx           9.9         10           9.0         9.9           9.2         9.9           9.2         9.9           6.6         6.6           9.9         10           9.2         9.1           5.2         5.2           6.9         7           9.0         9.9           5.2         5.2           14.4         14           9.9         2.9   | z<br>2<br>2<br>3<br>3<br>0<br>1<br>3<br>8<br>0<br>1<br>3<br>8<br>0<br>1<br>2<br>4<br>4<br>4<br>6<br>0<br>1<br>4<br>4<br>4<br>4<br>4<br>6<br>0<br>1<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4  
   |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 d<br>8.5 f<br>8.5 f<br>8.5 f<br>8.5 h<br>2.5 i<br>4.6 J<br>8.4 k<br>2.5 i<br>14.1 m<br>8.5 n<br>8.5 n<br>8.5 n   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c} \begin{matrix} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $   
   | 0         5           j         s           1.3         0.3           0.4         1.4           0.5         7.3           1.4         0.5           0.5         4           7.5         0.1           5.4         7.0           1.4         0.3           0.01         0.3  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |
×<br>12.4<br>11.4<br>11.4<br>11.5<br>8.4<br>12.5<br>11.5<br>8.4<br>12.5<br>6.5<br>12.5<br>6.5<br>18.1<br>12.5<br>11.3<br>6.5<br>18.1<br>12.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>12.5<br>12.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11 | x       12.5       11.6       12.6       12.6       12.6       12.6       12.6       12.6       12.6       11.4       6.6       18.3       12.6       11.5   | 6.8         6.8           6.8         6.8           6.8         6.8           2.0         3.8           6.8         2.0           3.8         6.8           2.0         11.3           6.8         7.0           6.8         8   
  | а b c d e f g h i j K l m n o P   | ∞         0         0           ic         d         g         q         q           10.0         9.1         9.2         10.0         9.2           6.7         10.0         10.0         5.3         7.0         9.1           5.3         14.5         10.0         9.3         9.1         9.3         9.1   
  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | m         m         m         m         m           1         1         1         1         1         1           1         1         1         1         1         1         1           1   | 0         0         1         0         0           s         t         v         v         v           1         9.7         2         8.8         3           3         9.0         1         9.7         3           1         9.7         3         5.0         1           1         9.7         3         5.0         1           3         5.0         1         9.7         3           3         5.0         1         6.7         2           8.8         3         5.0         0         6           6         14.2         1         9.7         7           4         9.1         4         9.1         1  | m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9.9           6.6         6.6           9.9         10           9.2         9.9           6.6         6.6           9.9         10           5.2         5.6           9.0         9.0           5.2         9.5           14.4         14           9.9         10           9.2         9.0           9.0         9.0   | z           2           0.1           .2           .3           .0.1           .3           .8           0.1           .4           .1           .2           .4           .4           .4           .4           .4           .4  
   |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 d<br>8.5 d<br>8.5 g<br>8.5 f<br>2.5 i<br>4.6 j<br>8.4 k<br>2.5 i<br>14.6 j<br>8.4 k<br>2.5 i<br>14.1 m<br>8.5 n<br>8.5 n<br>8.5 p<br>8.5 p<br>8.5 c  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | $\begin{array}{c c} \begin{matrix} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $   
   | y         y <thy< th="">         y         y         y</thy<> | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |
×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>8.4<br>12.5<br>6.5<br>8.6<br>11.3<br>6.5<br>18.1<br>12.5<br>11.5<br>11.4<br>12.5<br>8.4<br>11.4<br>12.5<br>18.4<br>1.1.4<br>12.5<br>18.4<br>1.1.4<br>1.1.4<br>1.1.4<br>1.2.5<br>8.6<br>1.1.3<br>6.5<br>8.6<br>1.1.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.3<br>6.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.3<br>6.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>8.6<br>1.1.4<br>1.2.5<br>1.1.5<br>8.6<br>1.1.4<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.2.5<br>1.1.5<br>1.1.5<br>1.1.5<br>8.4<br>1.2.5<br>1.1.5<br>1.1.5<br>8.4<br>1.2.5<br>1.2.5<br>1.1.5<br>8.4<br>1.2.5<br>1.2.5<br>1.2.5<br>1.1.5<br>8.4  | x         12.5         11.5         11.6         12.6         12.6         12.6         12.6         12.6         11.4         6.6         18.3         12.6         11.4         6.6         18.3         12.6         11.4         6.6         18.6  | 6.8         6.8           6.8         6.8           6.8         6.8           7.0         3.8           6.8         6.8           6.8         5.3  
  | а b c d e f g h i j k – m п о р q r   | ∞         0         0           10.0         9.1         9.2           10.0         9.2         6.7           10.0         10.0         9.2           5.3         7.0         9.1           5.3         14.5         10.0           9.1         5.3         14.5           10.0         9.3         9.1           10.0         9.3         9.1           10.0         6.8         8  
  | x         x | m         o         o         o           i         i         i         i         i         i           i         i         i         i         i         i         i           i         i         i         i         i         i         i         i           i   | 0         0         1         0         0           s         t         v         v         v         v           1         9.7         3         9.0         0         8         8         3           3         9.0         8         6.5         5         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         3         5.0         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1 </td <td>m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9           9.2         9           6.6         6.6           9.9         10           9.2         9           6.5         2.5           6.9         9.0           9.9         10           5.2         5.2           14.4         14           9.2         9           9.0         9           9.0         9           9.2         9           6.6         6.6           9.9         10           5.2         5.2           9.0         9           9.0         9           9.2         9           9.2         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.9         0</td> <td>Z<br/>2<br/>2<br/>2<br/>3<br/>2<br/>1<br/>2<br/>3<br/>3<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>4<br/>4<br/>4<br/>4<br/>6<br/>5<br/>1<br/>1<br/>4<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td>  | m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9           9.2         9           6.6         6.6           9.9         10           9.2         9           6.5         2.5           6.9         9.0           9.9         10           5.2         5.2           14.4         14           9.2         9           9.0         9           9.0         9           9.2         9           6.6         6.6           9.9         10           5.2         5.2           9.0         9           9.0         9           9.2         9           9.2         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.9         0                               | Z<br>2<br>2<br>2<br>3<br>2<br>1<br>2<br>3<br>3<br>2<br>1<br>3<br>3<br>8<br>2<br>1<br>3<br>3<br>8<br>2<br>1<br>3<br>3<br>8<br>2<br>1<br>3<br>3<br>8<br>2<br>1<br>3<br>4<br>4<br>4<br>4<br>6<br>5<br>1<br>1<br>4<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  
   |
| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 d<br>8.5 f<br>8.5 f<br>8.5 f<br>8.5 f<br>8.5 h<br>2.5 i<br>4.6 j<br>8.4 k<br>2.5 i<br>14.1 m<br>8.5 n<br>8.5 p<br>8.5 p<br>8.5 g<br>8.5 s  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c} \begin{matrix} \begin{matrix} u \\ o \end{matrix} \\ \hline u \end{matrix} \\ \hline u \end{matrix} \\ \hline f \end{matrix} \\ \hline u \end{matrix} \\ u \end{matrix} \\ \hline u \end{matrix} \\ u \end{matrix} \\ \hline u \end{matrix} \\ u \end{matrix} u \end{matrix}$   | 9         10           j         s           1.3         0.3           0.3         0.0           1.4         0.5           7.3         1.4           1.4         1.4           5.4         7.0           1.4         0.3           1.4         0.3           1.4         0.4           0.3         1.4           0.3         1.4           0.3         0.3  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | ×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>8.4<br>12.5<br>12.5<br>6.5<br>8.6<br>11.3<br>6.5<br>18.1<br>12.5<br>11.5<br>11.5<br>8.4<br>11.4<br>12.5<br>11.4<br>12.5<br>11.4<br>12.5<br>11.4<br>12.5<br>11.4<br>12.5<br>11.4<br>12.5<br>11.4<br>11.4<br>11.4<br>12.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>12.5<br>11.5<br>12.5<br>11.5<br>12.5<br>11.5<br>12.5<br>11.5<br>12.5<br>11.5<br>11.5<br>11.5<br>12.5<br>11.5<br>11.5<br>12.5<br>11.5<br>12.5<br>11.5<br>11.5<br>12.5<br>12.5<br>11.5<br>11.5<br>11.5<br>12.5<br>11.5<br>12.5<br>11.5<br>12.5<br>11.5<br>11.5<br>11.5<br>12.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11 | x         12.5         11.6         12.6         12.6         12.6         12.6         12.6         12.6         11.4         6.6         11.5         11.5         11.5         11.5   | 6.8         6.8         6.8         6.8         6.8         6.8         6.8         6.8         6.8         2.0         3.8         6.8         2.0         11.3         6.8         2.0         11.3         6.8         5.3         6.8         5.8         5.8         5.8         5.8         5.8         6.8         5.8 </td <td>а b c d e f g h i j k – m п о р д r s</td> <td>∞         0         0           ic         d         g         q         q           10.0         9.1         9.2         10.0         9.2           6.7         10.0         10.0         10.0         10.0         10.0           10.0         9.1         3.3         14.5         10.0         9.3         9.1         10.0         9.3         9.1         10.0         9.3         9.1         10.0         9.3         9.1         10.0         6.8         9.1         10.0<!--</td--><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>m         m         m         m         m           1         1         1         1         1         1           1         1         1         1         1         1         1           1</td><td>0         0         1         0         0           1         9.7         2         8.8         3         9.0           1         9.7         3         9.0         3         9.0         3         9.0         3         9.0         3         1         9.7         3         5.0         3         1         9.7         3         5.0         3         5.0         1         6.7         2         8.8         8         3         5.0         1         6.7         2         1         9.7         1         9.7         1         9.7         1         9.7         3         5.0         1         1         9.7         1         9.7         3         5.0         1         6.7         2         8.8         8         3         5.0         1         6.7         2         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         2         8.8         8         1         9.7         1         2         8.8         1         9.7         7         9         6.6         6         1         9.7         7         9         9         6.6<!--</td--><td>m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9.9           9.9         10           9.9         10           9.9         10           9.2         9.9           6.6         6.6           9.9         10           5.2         5.2           14.4         14           9.9         10           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0   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9.0</td><td>Z<br/>2<br/>2<br/>2<br/>3<br/>2<br/>1<br/>2<br/>3<br/>3<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>3<br/>8<br/>2<br/>1<br/>3<br/>4<br/>4<br/>4<br/>6<br/>1<br/>2<br/>4<br/>4<br/>4<br/>5<br/>1<br/>2<br/>4<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>5<br/>1<br/>1<br/>1<br/>5<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td></td></td> | а b c d e f g h i j k – m п о р д r s   | ∞         0         0           ic         d         g         q         q           10.0         9.1         9.2         10.0         9.2           6.7         10.0         10.0         10.0         10.0         10.0           10.0         9.1         3.3         14.5         10.0         9.3         9.1         10.0         9.3         9.1         10.0         9.3         9.1         10.0         9.3         9.1         10.0         6.8         9.1         10.0 </td <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>m         m         m         m         m           1         1         1         1         1         1           1         1         1         1         1         1         1           1</td> <td>0         0         1         0         0           1         9.7         2         8.8         3         9.0           1         9.7         3         9.0         3         9.0         3         9.0         3         9.0         3         1         9.7         3         5.0         3         1         9.7         3         5.0         3         5.0         1         6.7         2         8.8         8         3         5.0         1         6.7         2         1         9.7         1         9.7         1         9.7         1         9.7         3         5.0         1         1         9.7         1         9.7         3         5.0         1         6.7         2         8.8         8         3         5.0         1         6.7         2         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         2         8.8         8         1         9.7         1         2         8.8         1         9.7         7         9         6.6         6         1         9.7         7         9         9         6.6<!--</td--><td>m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9.9           9.9         10           9.9         10           9.9         10           9.2         9.9           6.6         6.6           9.9         10           5.2         5.2           14.4         14           9.9         10           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.9         10           6.8         6.8           9.0         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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | m         m         m         m         m           1         1         1         1         1         1           1         1         1         1         1         1         1           1   | 0         0         1         0         0           1         9.7         2         8.8         3         9.0           1         9.7         3         9.0         3         9.0         3         9.0         3         9.0         3         1         9.7         3         5.0         3         1         9.7         3         5.0         3         5.0         1         6.7         2         8.8         8         3         5.0         1         6.7         2         1         9.7         1         9.7         1         9.7         1         9.7         3         5.0         1         1         9.7         1         9.7         3         5.0         1         6.7         2         8.8         8         3         5.0         1         6.7         2         1         9.7         1         9.7         1         9.7         1         9.7         1         9.7         1         2         8.8         8         1         9.7         1         2         8.8         1         9.7         7         9         6.6         6         1         9.7         7         9         9         6.6 </td <td>m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9.9           9.9         10           9.9         10           9.9         10           9.2         9.9           6.6         6.6           9.9         10           5.2         5.2           14.4         14           9.9         10           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.9         10           6.8         6.8         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| m         m         m           y         x         x           9.9         10           9.0         9.9           9.2         9.9           9.9         10           9.9         10           9.9         10           9.2         9.9           6.6         6.6           9.9         10           5.2         5.2           14.4         14           9.9         10           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.2         9.0           9.9         10           6.8         6.8           9.0         9.0  | 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| 8.4 a<br>8.5 b<br>8.4 c<br>8.5 d<br>8.5 d<br>8.5 d<br>8.5 f<br>8.5 g<br>8.5 h<br>2.5 i<br>4.6 j<br>8.4 k<br>2.5 i<br>14.1 m<br>8.4 k<br>2.5 l<br>14.1 m<br>8.5 n<br>8.5 p<br>8.5 p<br>8.5 c  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | $\begin{array}{c c} \begin{tabular}{ c c c c c } \hline & \begin{tabular}{ c c c c c } \hline & \begin{tabular}{ c c c c c c } \hline & \begin{tabular}{ c c c c c c c } \hline & \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  
   | 9         10           J         s           1.3         0.3           0.4         1.4           1.4         0.5           7.3         1.4           1.4         1.4           5.4         7.7           0.1         5.4           7.4         0.3           1.4         0.4           1.4         0.1           5.4         7.4           0.3         1.4           0.3         3.6  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |
×<br>12.4<br>11.4<br>11.4<br>11.5<br>8.4<br>12.5<br>8.4<br>12.5<br>8.6<br>11.3<br>6.5<br>8.6<br>11.3<br>6.5<br>18.1<br>12.5<br>8.4<br>11.4<br>12.5<br>8.4<br>11.4<br>11.4<br>12.5<br>8.4<br>11.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.6<br>11.5<br>8.6<br>11.5<br>11.5<br>8.4<br>12.5<br>8.6<br>11.5<br>8.4<br>12.5<br>8.6<br>11.5<br>8.6<br>11.5<br>8.6<br>11.15<br>8.6<br>11.15<br>8.6<br>11.15<br>8.6<br>11.15<br>8.6<br>11.15<br>8.6<br>11.15<br>8.6<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.14<br>12.5<br>12.5<br>13.6<br>1.5<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.15<br>11.14<br>12.5<br>11.14<br>12.5<br>11.14<br>12.5<br>11.14<br>12.5<br>11.14<br>12.5<br>11.14<br>12.5<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.14<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25<br>11.25  | x         12.5         11.6         12.6         9.8   | 6.8         6.8           6.8         6.8           6.8         6.8           7.0         3.8           6.8         6.8           6.8         5.3  
  |   | ∞         0         0           10.0         9.1         9.2           10.0         9.2         6.7           10.0         10.0         9.2           5.3         7.0         9.1           5.3         14.5         10.0           9.1         5.3         14.5           10.0         9.3         9.1           10.0         9.3         9.1           10.0         6.8         8  
  | x         x | m         o         o         o           i         i         i         i         i         i           i         i         i         i         i         i         i           i         i         i         i         i         i         i         i           i   | 0         0         7         0         0           s         t         V         0         1         1         1         1         0         1         0         1   | image         image         image           y         x         x           9,9         10           9,0         9,2           9,2         9,9           9,2         9,9           6,6         9,9           10         9,9           5,2         5,2           14,4         4           9,9         10           9,2         9,9           14,4         4           9,9         10           9,2         9,9           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0     < | z<br>z<br><br><br><br><br><br><br>   
   |
| 8.4         a           8.5         b           8.5         d           8.5         f           8.6         o           8.5         q           6.5         r           8.5         s           6.7         t           8.5         s           6.7         t           8.5         t           10.0         v   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c} \begin{matrix} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $   
   | 9         10           j         s           1.3         0.3           0.3         0.0           1.4         0.5           7.3         1.4           1.4         0.5           7.3         1.4           1.4         0.5           7.3         1.4           1.4         0.3           0.1         5.5           7.0         1.4           0.3         1.4           1.4         0.3           3.6         1.4           1.5         1.4  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | ×<br>12.4<br>11.4<br>11.4<br>12.5<br>11.5<br>11.5<br>8.4<br>12.5<br>6.5<br>8.6<br>11.3<br>6.5<br>18.1<br>12.5<br>11.5<br>11.5<br>12.5<br>11.5<br>8.4<br>12.5<br>8.6<br>11.3<br>8.4<br>12.5<br>12.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1   
   | $\begin{array}{c} \overleftarrow{\alpha} \\ \hline z \\ \hline 12.5 \\ \hline 11.6 \\ \hline 12.6 \\ \hline 13.3 \\ \hline 11.4 \\ \hline 6.6 \\ \hline 18.3 \\ \hline 11.5 \\ \hline 12.6 \\ \hline 11.5 \\ \hline 12.8 \\ \hline \end{array}$   | 6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>2.0<br>3.8<br>6.8<br>2.0<br>3.8<br>6.8<br>2.0<br>6.8<br>7.0<br>6.8<br>5.3<br>6.8<br>5.4<br>6.8<br>5.4<br>6.8<br>5.4<br>6.8   
   | a           b           c           d           e           f           g           h           i           j           k           l           m           m           o           P           q           t           v   | ∞         0         0           ic         d         g         q         q           10.0         9.1         9.2         10.0         9.2           10.0         9.2         6.7         10.0         10.0           10.0         9.1         5.3         7.0         9.1         5.3           14.5         10.0         9.3         9.1         10.0         6.8         9.1           7.8         9.1         10.0         10.0         10.0         10.0         10.1  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  
   | 0         7         0         0           1         0         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1         1         1         1         1         1         1   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | m         m         m           y         x         x           9.9         10           9.2         9           9.2         9           9.9         10           9.2         9           6.6         9.9           0.7         10           9.9         10           9.9         10           9.9         10           9.9         10           9.9         10           9.9         10           9.9         10           9.9         10           9.9         10           9.9         10           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           9.0         9           10.0         10  | z<br>z<br>0.1<br>.2<br>.3<br>.3<br>.3<br>.8<br>0.1<br>.1<br>.4<br>.4<br>.4<br>.4<br>.4<br>.2<br>.1<br>.9<br>.2<br>.9<br>.2<br>.9<br>.2<br>.2<br>.1<br>.2<br>.3<br>.3<br>.3<br>.3<br>.4<br>.2<br>.3<br>.1<br>.2<br>.3<br>.3<br>.3<br>.1<br>.2<br>.3<br>.3<br>.1<br>.2<br>.3<br>.3<br>.1<br>.2<br>.3<br>.3<br>.1<br>.2<br>.3<br>.3<br>.1<br>.2<br>.3<br>.1<br>.1<br>.2<br>.3<br>.1<br>.1<br>.2<br>.4<br>.4<br>.2<br>.2<br>.1<br>.2<br>.1<br>.2<br>.4<br>.4<br>.2<br>.2<br>.1<br>.2<br>.4<br>.4<br>.5<br>.1<br>.2<br>.4<br>.4<br>.5<br>.5<br>.1<br>.2<br>.4<br>.4<br>.5<br>.5<br>.1<br>.5<br>.5<br>.1<br>.2<br>.4<br>.4<br>.5<br>.5<br>.1<br>.5<br>.5<br>.5<br>.1<br>.2<br>.4<br>.5<br>.5<br>.5<br>.5<br>.5<br>.5<br>.5<br>.5<br>.5<br>.5  
  |
| 8.4         a           8.5         b           8.4         c           8.5         d           8.5         d           8.5         f           8.5         f           8.5         f           8.5         h           2.5         i           8.4         K           2.5         i           8.4         K           2.5         i           8.4         K           2.5         i           8.6         o           8.5         P           8.5         Q           6.5         r           8.5         S           6.7         t           8.5         0           10.0         V           13.1         w  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c c} \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  
   | 9         10           J         s           1.3         0.3           0.4         1.4           1.4         0.5           7.3         1.4           1.4         1.4           0.5         7.3           1.4         1.4           0.5         7.3           1.4         1.4           1.4         0.1           5.4         7.7           0.1         3.4           7.4         0.3           1.4         1.4           1.4         1.4           1.4         1.4           1.4         1.4           1.4         1.4           1.4         1.4           1.4         1.4  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |
x<br>x<br>112.4<br>11.4<br>11.4<br>12.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.6<br>5<br>11.5<br>8.6<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>12.5<br>8.4<br>11.5<br>8.4<br>12.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>8.4<br>11.5<br>12.5<br>8.4<br>11.5<br>12.5<br>8.4<br>11.5<br>12.5<br>8.4<br>11.5<br>12.5<br>8.4<br>11.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5   | $\begin{array}{c} \overrightarrow{\alpha} \\ \hline z \\ \hline 12.5 \\ \hline 11.5 \\ \hline 11.6 \\ \hline 12.6 \\ \hline 13.3 \\ \hline 12.6 \\ \hline 11.5 \\ \hline 12.8 \\ \hline 16.0 \\ \hline \end{array}$ | 6.8         6.8           6.8         6.8           6.8         6.8           6.8         6.8           7.0         6.8           6.8         6.8           5.3         6.8           5.3         6.8           5.4         6.8           5.4         6.8           8.0         10.6  
   | a         b           b         c           c         d           d         e           g         f           g         f           f         f           g         k           f         f           g         k           f         f           g         g           g         g | ∞         0         0           ic         d         g         q         q           10.0         9.1         9.2         10.0         9.2           10.0         9.2         6.7         10.0         10.0           9.2         5.3         14.5         10.0         9.1           5.3         14.5         10.0         9.3         9.1           10.0         6.8         9.1         10.0         6.8           9.1         7.8         10.0         10.1         12.8  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   
   | m           | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | m         m         m           y         x         x           9,9         10           9,0         9,9           9,2         9,9           9,2         9,9           6,6         9,9           0,0         9,9           0,0         9,9           6,6         9,9           0,0         9,9           5,2         5,2           14,4         14           9,9         10           9,2         9,9           9,0         9,9           9,0         9,9           14,4         14           9,9         10           6,6,8         6,8           9,0         9,9           9,0         9,9           9,0         9,9           9,0         9,9           9,0         9,9           9,0         9,9           9,0         9,9           9,0         9,9           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0              | z<br>z<br>  
  |
| 8.4         a           8.5         b           8.5         d           8.5         f           10.0         v           13.1         w           10.8         y | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c} \begin{matrix} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $   
   | 9         10           j         s           1.3         0.3           0.3         0.0           1.4         0.5           7.3         1.4           1.4         1.4           0.5         4.7           7.0         1.4           1.4         0.5           7.0         1.4           0.3         1.4           1.4         0.3           1.4         0.3           1.4         1.4           1.4         1.4           0.3         1.4           1.5         4.8           2.0         2.3  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | ×<br>112.4<br>11.4<br>11.4<br>11.4<br>11.2<br>5<br>8.4<br>12.5<br>6.5<br>8.4<br>12.5<br>6.5<br>8.4<br>11.3<br>6.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5  
   | $\begin{array}{c} \overleftarrow{\alpha} \\ \hline z \\ \hline 12.5 \\ \hline 11.6 \\ \hline 12.6 \\ \hline 13.3 \\ \hline 11.5 \\ \hline 12.6 \\ \hline 11.5 \\ \hline 12.6 \\ \hline 8.6 \\ \hline 11.5 \\ \hline 9.8 \\ \hline 12.8 \\ \hline 13.3 \\ \hline 13.5 \\ \hline \end{array}$  | 6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>2.0<br>3.8<br>6.8<br>2.0<br>3.8<br>6.8<br>2.0<br>3.8<br>6.8<br>7.0<br>6.8<br>5.3<br>6.8<br>5.4<br>6.8<br>5.4<br>6.8<br>5.4<br>6.8<br>5.4<br>6.8<br>5.4<br>6.8<br>5.4<br>6.8<br>6.8<br>5.4<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8   
  | a         b           b         c           c         d           d         b           e         f           g         h           j         j | ∞         0         0           i         c         d         g         q         q           10.0         9.1         9.2         10.0         9.2         10.0         10.0           9.2         6.7         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         6.8         9.1         7.8         10.0         10.0         10.1         12.8         10.5         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.7         10.0         10.7         10.0         10.7         10.7         10.0         10.7         10.0         10.7         10.0         10.7         10.0 <td< td=""><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>m         m</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>m         m         m           y         x         x           9.9         10           9.0         9.2           9.2         9.9           0.6         6.6           9.9         10           9.2         9.9           6.6         9.9           10         5.2           6.9         7           9.0         9.9           5.2         6.9           7.9         9.0           9.9         10           9.9         10           9.9         10           9.9         10           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           10.0         10           10.0         10           10.0         10</td><td>z           z           .2           .3           .0.1           .2           .3           .0.1           .3           .0.1           .3           .4           .4           .4           .4           .4           .4           .4           .2           .9           .1           .2           .9           .1           .2           .3           .4           .4           .2           .3           .3           .4           .4</td></td<>   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   
  | m           | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | m         m         m           y         x         x           9.9         10           9.0         9.2           9.2         9.9           0.6         6.6           9.9         10           9.2         9.9           6.6         9.9           10         5.2           6.9         7           9.0         9.9           5.2         6.9           7.9         9.0           9.9         10           9.9         10           9.9         10           9.9         10           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           9.0         9.0           10.0         10           10.0         10           10.0         10                      | z           z           .2           .3           .0.1           .2           .3           .0.1           .3           .0.1           .3           .4           .4           .4           .4           .4           .4           .4           .2           .9           .1           .2           .9           .1           .2           .3           .4           .4           .2           .3           .3           .4           .4  
   |
| 8.4         a           8.5         b           8.4         c           8.5         d           8.5         d           8.5         g           8.5         f           8.5         f           8.5         f           8.5         f           8.5         f           8.5         f           8.6         o           8.5         f           8.6         o           8.5         f           6.5         r           8.5         f           6.5         r           8.5         g           6.5         r           8.5         g           6.7         t           8.5         u           10.0         v           10.1         w           10.4         x   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c c} \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  
   | 9         10           j         s           1.3         0.3           0.3         0.0           1.4         0.5           7.3         1.4           1.4         1.4           0.5         4.7           7.0         1.4           1.4         0.5           7.0         1.4           0.3         1.4           1.4         0.3           1.4         0.3           1.4         1.4           1.4         1.4           0.3         1.4           1.5         4.8           2.0         2.3  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | ×<br>112.4<br>11.4<br>11.4<br>11.4<br>11.2<br>5<br>8.4<br>12.5<br>6.5<br>8.4<br>12.5<br>6.5<br>8.4<br>11.3<br>6.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5<br>11.5  
   | $\begin{array}{c} \overleftarrow{\alpha} \\ \hline z \\ \hline 12.5 \\ \hline 11.6 \\ \hline 12.6 \\ \hline 13.3 \\ \hline 12.6 \\ \hline 14.6 \\ \hline 15.5 \\ \hline 12.6 \\ \hline 12.8 \\ \hline 12.6 \\ \hline 13.3 \\ \hline \end{array}$  | 6.8         6.8           6.8         6.8           6.8         6.8           6.8         6.8           7.0         6.8           6.8         6.8           7.0         6.8           6.8         5.3           6.8         5.4           6.8         5.4           6.8         5.4           6.8         3.3   
   | a         b           b         c           c         d           d         b           e         f           g         h           j         j | ∞         0         0           10.0         9.0         10.0           9.1         9.2         10.0           9.2         6.7         10.0           10.0         9.1         10.0           9.2         6.7         10.0           10.0         9.1         10.0           9.1         9.1         10.0           9.3         9.1         10.0           9.3         9.1         10.0           6.8         9.1         7.8           10.0         10.1         12.8           10.5         5         5   | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  
   | m         o         r         o         r           i   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | m         m         m           y         x         x           9,9         10           9,0         9,9           9,2         9,9           6,6         6,6           9,9         10           9,2         9,9           6,6         6,7           9,0         9,0           5,2         5,2           14,4         14           9,9         10           9,2         9,9           9,0         9,2           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           9,0         9,0           10,0         10           10,0         10  | 2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  
  |

	13.3" DIGIT to 13.3" DIGIT												
13.	3	11.1			10.6		4.4	10.6	12.4	10.6			
		0	2	3	6	8	9	1	5	4	7		
11.1	0			13	.9			14	.5	13	.9		
4.4	1			7.	. 8		7.8				. 1		
10.6	2			13	.4			14	.0	13	.4		
10.6	3			13	.4			14	14.0		• 4		
12.4	4			15	• 1			15	• 1	13	.3		
10.6	5			13	.4			14	.0	13	.4		
10.6	6			13	.4			14	• 0	13	• 4		
10.6	7		13.4 13.4 11.5										
10.6	8		13.4 14.0 13.4										
10.6	9			13	• 4			14	• 0	13	• 4		

10.6" DIGIT to 10.6" DIGIT												
10.	6	8.9			8.5	9.9	8.5					
		0	2	3	6	8	9	1	5	4	7	
8.9	0			11	.1			11	.6	11	.1	
3.5	1			6.	. 2			6.	. 2	5.7		
8.5	2			10	• 7			11	.2	10	• 7	
8.5	3			10	10.7 11.2			• 2	10	. 7		
9.9	4			12	. 1			12	• 1	10.6		
8.5	5			10	. 7			11	.2	10.7		
8.5	6		10.7				11	• 2	10	.7		
8.5	7		10.7				10	.7	9.	. 2		
8.5	8			. 2	10	. 7						
8.5	9		<u> </u>									

	8" DIGIT to 8" DIGIT												
8		6.6	• • • • • •								6.4		
		0	2	3	6	8	9	1	5	4	7		
6.6	0			8.	. 3			8.	. 7	8.	. 3		
2.6	1			4.	, 7			4.	. 7	4.3			
6.4	2			8.	0			8.	. 4	8.	0		
6.4	3			8.	. 0			8.	. 4	8.0			
7.4	4			9.0 9.0				0	7.9				
6.4	5			8.	0			8.	. 4	8.0			
6.4	6			8.	. 0			8.4		8.0			
6.4	7		8.0 8				8.	0	6.	g			
6.4	8		8.0 8.4										
6.4	9			8.	. 0			8.	. 4	8.	0		

#### NOTE:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. SEE SHEETS 2 THRO FOR CORRESPONDING METRIC UNITS.

6  $\begin{array}{c} 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\ 5.1 & < \\$ 

N	9.1		9.6	9.0	8.5	8.9	9.1	9.2	
0	8.7		9.3	8.6	7.9	8.5	8.6	8.8	
P Q	8.3 8.7		8.6 9.3	8.2	7.4	8.0 8.5	8.1 8.6	8.3 8.8	- 1
R	8.4		9.1	8.4	7.7	8.3	8.4	8.5	
S	8.3		8.9	8.1	7.6	8.1	8.2	8.3	
T U	7.4		8.3 9.3	7.3	7.0	7.4 8.8	7.5 8.9	7.6	- 1
V	8.6		9.5	8.8	8.4	8.9	9.1	9.2	-
Ŵ	10.3	3	10.5	10.1	9.6	9.9 9.6	9.9	10.3	
Х	8.8		9.0	8.6	8.1	8.4 8.1	8.4	8.8	
Y Z	9.0 8.9		10.0 9.4	9.3 8.8	8.9 8.1	8.9 8.8	9.1 8.9	9.6 9.0	- 1
a b c d e f	6 	D 0 0	i         i	M 6 ∠ M 2 f W 7.4 6.8 6.9 7.4 6.9	wer v j 6.9 6.2 6.3 6.3 6.3 6.3 4.3	CCUSE 		т. 2 7.6 6.9 7.1 7.6 7.1 7.1 7.1 5.1	
f g	5.0		5.7 8.2	4.9	4.3	4.8 7.4	4.9 7.5	5.1 7.6	4
h	7.6		8.2	7.4	6.9	7.4	7.5	7.6	-
i	3.9		4.6	3.8	3.3	3.8	3.9	4.0	
j	5.2		5.8	5.1	4.5	5.0	5.1	5.3	-
K I	6.9 3.9		7.6 4.6	6.8 3.8	6.2 3.3	6.7 3.8	6.8 3.9	6.9 4.0	-
m	10.8	3	11.4	10.7	10.1	10.6	10.8	10.9	
n	7.6		8.2	7.4	6.9	7.4	7.5	7.6	
0	7.0		7.7	6.9	6.3	6.8	6.9	7.1	- 1
P q	6.9 7.6		7.6 8.2	6.8 7.4	6.2 6.9	6.7 7.4	6.8 7.5	6.9 7.6	-
r	5.1		5.8	5.0	4.4	4.9	5.0	5.1	-
s	6.9		7.6	6.8	6.2	6.7	6.8	6.9	
†	5.8		6.5	5.7	5.1	5.6	5.8	5.9	-
u v	7.6		8.2 8.3	7.4	6.9 6.9	7.4	7.5 7.5	7.6	- 1
W	9.5		10, 1	9.4	8.8	9.3	9.4	9.6	
×	7.8		8.4	7.7	7.1	7.6	7.8	7.9	- 1
у z	8.1 7.1		8.8 7.8	7.9	7.4 6.4	7.9	8.0 7.0	8.1 7.1	- 1
	٦		EN			H UN I			57 A NTE A
	-		DEPARTME BUREAU OF HIGHY	NT WAY	OF safet	TRANS	POF	RТА	TION
		D I F	RECT APPL	IEC	) L		S 8		
			UPPER SERIES E	M	DD I	FIED	(E)	NGL	
SS ROU	IGH 7		MENDED MAY 25, 20	s		ENDED <u>MAY</u> <i>M. C. fatu</i>	l		SHT. 13 OF 18
		CHIEF	TRAFFIC ENGINEERING	AND	HIEF H	IGHWAY ENGIN	EER		TC-8700C
	I								

	8" UPPER CASE to 6" lower case																		
	6 - <u>w</u> - <u>w</u> - <u>w</u> - <u>w</u> - <u>w</u> - <u>w</u>																		
	Ŭ	D	<u>ъ</u>	с.	-	<u>-</u> ک	œ	ъ.	m	ഹ	м.	7.	~	5	4	e.	ق	9	പ്
8	$\searrow$	acdeg	o q	bh	ī	κI	m	пp	r	u	f	w	j	s	t	v	У	×	z
8.0	Α	9.9				10	).1				9.	8	9.2	9.	. 5	9.	. 3	9.5	9.9
6.4	В	8.6				9	. 3				8.		7.9	8.	. 4	8.	, 1	8.1	8.7
6.4	С	8.5					. 0				8.	3	7.8		8.			8.4	8.6
6.4	D	8.4					. 1				8.		7.7			3		8.4	8.5
5.9	E	8.0					. 5				7.		7.3			8		7.9	8.1
5.9	F	6.9					. 9				7.		6.9			0		7.1	7.4
6.4	G	8.5					. 0				8.		7.8		8.			8.4	8.6
6.4	Н	9.1					. 6				9.		8.5			9		9.1	9.2
1.6	Ι	4.4					, 9				4.		3.7			2		4.3	4.4
6.0	J	8.7					. 9				8.		8.1		8.			8.5	8.8
6.5	K	8.1					. 9				8.		7.4			9		8.1	8.3
5.9	L	7.5					.3				7.		6.8			3		7.4	7.6
7.4	М	10.1					. 6	;			10		9.5			9		10.1	10.2
6.4	Ν	9.1					. 6			_	9.		8.5	8.9				9.1	9.2
6.6	0	8.7					.3				8.		7.9		8.			8.6	8.8
6.4	Ρ	8.3					. 6				8.		7.4		8.			8.1	8.3
6.6	Q	8.7					. 3			_	8.		7.9		8.			8.6	8.8
6.4	R	8.4					<u>. 1</u>			_	8.		7.7			3		8.4	8.5
6.4	S	8.3					. 9				8.		7.6		8			8.2	8.3
5.9	T	7.4					. 3			_	7.		7.0			4		7.5	7.6
6.4	U	9.1					. 3			_	8.		8.4		8.			8.9	9.1
7.3	۷	8.6					. 5			_	8.		8.4		8.			9.1	9.2
8.4	W	10.3					).5	)		_		. 1	9.6		. 9	9.		9.9	10.3
6.9	Х	8.8					. 0			_	8.		8.1	8.	. 4	8.	, 1	8.4	8.8
8.0	Y	9.0					•• 0	)		_	9.		8.9		8.			9.1	9.6
6.4	Z	8.9				9	. 4				8.	8	8.1		8.	8		8.9	9.0

1	8" UPPER		
18	A 18.0 18.0 13.5 13.5 13.5 13.5 13.5 13.6 13.8 0 18.0	B         E         H         I         K         I         4.3         I         4.3         I         4.3         I         4.3         I         4.1         3.1         I         1.3         2         1         1.4         3.3         I         1.4         1.3         2         1         1.4         1.4         1.3         1.1         1.3         1.1         1.3         1.1         1.3         1.1         1.4         1.4         1.4         1.3         1.1         1.1         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.3         1.1         <	Z X S D 0 D 0 14.9 14.3 14.3
18.0 A	19.2	21.7	21.7
14.3 B	18.1	19.0	18.1
14.3 C	16.8	18.1	18.1
14.3 D	18.1	19.0	18.1
13.2 E	15.7	16.9	16.9
13.2 F	15.7	16.9	16.9
14.3 G	18.1	19.0	18.1
14.3 H	18.1	19.0 7.7	19.0
3.1 I	6.8		7.7
13.5 J	17.2	18.1	18.1
14.6 K	17.1	18.3	18.3
13.2 L	14.5	16.9	16.9
16.6 M	20.3	21.2	21.2
14.3 N 14.9 0	18.1 18.6	19.0	19.0
14.9 0 14.3 P	18.1	19.6 19.0	18.6 18.1
14.3 P	18.6	19.0	18.6
14.3 Q	18.1	19.0	18.1
14.3 S	18.1	19.0	18.1
13.2 T	14.5	16.9	16.9
14.3 U	18.1	19.0	19.0
16.3 V	17.6	20.0	20.0
18.8 W	20.1	22.6	22.6
15.5 X	17.9	19.2	19.2
18.0 Y	19.2	21.7	21.7
14.3 Z	16.8	18.1	18.1

	1	2" UPPER	CASE to 12" UPPER	CASE		
12	<b>`</b>	12.0 9.0 8.8 10.9 12.6	9.6 9.6 9.8 8.8 8.8 8.8 9.6 9.6	9.9 9.6 10.3		
	·	AJTVWY		CGOQSX		
12.0	Α	12.8	14.5	14.5		
9.6	В	12.0	12.7	12.0		
9.6	С	11.2	12.0	12.0		
9.6	D	12.0	12.7	12.0		
8.8	Е	10.5	11.3	11.3		
8.8	F	10.5	11.3	11.3		
9.6	G	12.0	12.7	12.0		
9.6	Н	12.0	12.7	12.7		
2.1	Ι	4.5	5.2	5.2		
9.0	J	11.5	12.1	12.1		
9.8	Κ	11.4	12.2	12.2		
8.8	L	9.6	11.3	11.3		
11.1	М	13.5	14.2	14.2		
9.6	N	12.0	12.7	12.7		
9.9	0	12.4	13.0	12.4		
9.6	P	12.0	12.7	12.0		
9.9	Q R	12.4	13.0	12.4		
9.6	R	12.0	12.7	12.0		
9.6 8.8	S T	12.0 9.6	12.7 11.3	12.0 11.3		
9.6	υ	12.0	12.7	12.7		
10.9	V	11.7	13.4	13.4		
12.6	Ŵ	13.4	15.0	15.0		
10.3	X	12.0	12.8	12.8		
12.0	Ŷ	12.8	14.5	14.5		
9.6	z	11.2	12.0	12.0		

		8 "	DI	GIT	to	5 18	3 ''	DIG	ΙT			
18	3	14.9			14.3	5,3	14.3	16.6	14.3			
		0	2	3	6	8	9	1	5	4	7	
14.9	0			18	.6			19	.6	18	.6	
5.3	1			10	.0			10	.0	9.1		
14.3	2			18				19	.0	18	.1	
14.3	3			18	1.1			19	.0	18.1		
16.6	4			20	.3			20	.3	17.8		
14.3	5			18	<b>.</b> 1			19	• 0	18	• 1	
14.3	6			18	1.1			19	.0	18	• 1	
14.3	7			18			18	.1	15	.6		
14.3	8			18	5.1		19.0 18.1			.1		
14.3	9			18	1.1			19	.0	18	.1	

12" DIGIT to 12" DIGIT																										
12	2	9.9	3.6	9.6	11.1	9.6																				
		0	2	3	6	8	9	1	5	4	7															
9.9	0			12	• 4			13	.0	12	.4															
3.6	1			6.	7			6.	. 7	6.0																
9.6	2			12	.0			12	.7	12	.0															
9.6	З		12.0				12	.7	12	.0																
11.1	4			13	• 5			13	• 5	11.9																
9.6	5		12.0			12	.7	12	.0																	
9.6	6		12.0				12	.7	7 12.																	
9.6	7		12.0		12.0		12.0		12.0		12.0		12.0		12.0		12.0		12.0		12.0		12	• 0	10	• 4
9.6	8	12.0						12	.7	12	• 0															
9.6	9			12		12	.7	12	.0																	

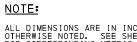
	10	)" UPPER	CASE to 10" UPPER	CASE	
		7.5 7.5 7.3 9.1 9.1 10.5	8.0 8.0 8.0 8.1 9.2 9.2 9.2 8.0	M 090	
10	)	<u>6</u>		ထံထံထံထံ	
		AJTVWY	BDEFHIKLMNPRU	CGOQSXZ	
10.0	Α	10.7	12.1	12.1	
8.0	В	10.0	10.6	10.0	
8.0	С	9.3	10.0	10.0	
8.0	D E	10.0 8.7	10.6	10.0	
7.3	Ê	8.7	9.4	9.4	
7.3	F	8.7	9.4	9.4	
8.0	G	10.0	10.6	10.0	
8.0	Η	10.0 3.8	10.6 4.3	10.6 4.3	
1.7	Ι	3.8	4.3	4.3	
7.5	J	9.6	10.1	10.1	
8.1	K	9.5	10.2	10.2	
7.3 9.2	L	8.0 11.3	9.4 11.8	9.4	
9.2	М	11.3	11.8		
8.0	N	10.0	10.6	10.6	
8.3	0	10.3	10.9	10.3	
8.0	P	10.0	10.6	10.0	
8.3	Q R	10.3	10.9	10.3	
8.0	R S	10.0	10.6	10.0	
8.0	T	10.0	10.6 9.4	9.4	
8.0	U	8.0	10.6	10.6	
9.1	V	10.0 9.7	11.1	11.1	
10.5	Ŵ	11.2	12.5	12.5	
8.6	X	10.0	10.7	10.7	
10.0	Ŷ	10.0	12.1	12.1	
8.0	Z	9.3	10.0	10.0	
0.0	4		10.0	10.0	

10" DIGIT to 10" DIGIT													
10	)	8.3	8.0 8.0 9.2										
		0	2	3	6	8	9	1	5	4	7		
8.3	0			10	.3			10	.9	10	.3		
3.0	1			5.	6			5.	6	5.0			
8.0	2			10	.0			10	.6	10	.0		
8.0	3			10	.0			10	• 6	10	.0		
9.2	4		11.3 11				.3	9.	9				
8.0	5			10	.0			10	• 6	10	.0		
8.0	6		10.0 10.6				.6	10	.0				
8.0	7		10.0				10	.0	8.	. 7			
8.0	8			10	10	• 6	10	.0					
8.0	9			10	.0			10	.6	10	.0		

6 " UPPER CASE to 6 " UPPER CASE           6 " UPPER CASE to 6 " UPPER CASE           6 " UPPER CASE to 6 " UPPER CASE           6 " UPPER to 10 " to 10"	
6 <u><u>w</u><u>4</u><u>4</u><u>w</u><u>w</u><u>4</u><u>4</u><u>w</u><u>w</u><u>4</u><u>4</u><u>w</u><u>w</u><u>4</u><u>4</u><u>w</u><u>w</u><u>4</u><u>4</u><u>w</u><u>w</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>4</u><u>w</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u><u>4</u></u>	0
6.0 A 6.4 7.2 7.2 5.1	
4.8 B 6.0 6.3 6.0 1.	8
4.8 C 5.6 6.0 6.0 4.	8
4.8 D 6.0 6.3 6.0 4.	8
4.4 E 5.2 5.7 5.7 5.7	5
4.4 F 5.2 5.7 5.7 4.	8
4.8         G         6.0         6.3         6.0         4.           4.8         H         6.0         6.3         6.3         4.	8
4.8 H 6.0 6.3 6.3 4.	
1.0         I         2.3         2.6         2.6         4.           4.5         J         5.7         6.1         6.1         4.           4.9         K         5.7         6.1         6.1         4.	
4.5 J 5.7 6.1 6.1 4.	8
4.9 K 5.7 6.1 6.1	
4.4 L 4.8 5.7 5.7	
5.5 M 6.8 7.1 7.1	
4.8         N         6.0         6.3         6.3           5.0         0         6.2         6.5         6.2	
5.0 0 6.2 6.5 6.2	
4.8         P         6.0         6.3         6.0           5.0         Q         6.2         6.5         6.2           4.8         R         6.0         6.3         6.0           4.8         S         6.0         6.3         6.0	
5.0 Q 6.2 6.5 6.2	
4.8 R 6.0 6.3 6.0	
4.8         S         6.0         6.3         6.0           4.4         T         4.8         5.7         5.7	
4.8         U         6.0         6.3         6.3           5.4         V         5.9         6.7         6.7	
6.3 W 6.7 7.5 7.5	
5.2         X         6.0         6.4         6.4           6.0         Y         6.4         7.2         7.2	
4.8 Z 5.6 6.0 6.0	

			C 11	SH DICIT to CH DICIT									
			6 "	6" DIGIT to 6" DIGIT									
4.8	6		5.0			4.8			1.8	4.8	5.5	4.8	
Ζ			0	2	3	6	8	9	1	5	4	7	
	5.0	0			6.	2			6.	5	6.	2	
	1.8	1				. 3			3.3		3.0		
	4.8	2			6.	0			6	. 3	6.	. 0	
	4.8	З			6.	. 0			6.	3	6.	. 0	
	5.5	4			6.	. 8			6.	8	5.9		
	4.8	5			6.	0			6.	. 3	6.0		
	4.8	6			6.	. 0			6.	. 3		. 0	
	4.8	7		6.0 6.0 5.2									
	4.8	8		6.0 6.3 6.0									
	4.8	9			6.	. 0			6.	. 3	6.	0	

		4" UPPER	CASE to 4" UPPER C	
4		A A A O A A A O A A O A A A O A A A O A A A A O A A A A A O A		7 S S S S S S S S S S S S S S S S S S S
4.0	A	4.3		4.8
3.2	B	4.0	4.8 4.2	4.0
3.2	C	4.0 3.7	4.0	4.0
3.2	D	4.0	4.2	4.0
2.9	Е	3.5 3.5	4.2 3.8 3.8	3.8
2.9	F	3.5	3.8	3.8
3.2	G	4.0	4.2 4.2 1.7	4.0
3.2 0.7	Н	4.0	4.2	4.2
0.7	Ι	1.5	1.7	1.7
3.0 3.3	J	3.8 3.8	4.0	4.0
3.3	К	3.8	4.1	4.1
2.9	L	3.2	3.8	3.8 4.7
3.7	М	4.5	4. (	4. (
3.2	N	4.0 4.1	4.2	4.2
3.3	0 P	4.1	4.5	4.1 4.0
3.2	Q	4.0	4.2	4.0
3.5	R	4.0	4.3	4.0
3 2	S	4.0	4.2	4.0
3.3 3.2 3.2 2.9	Ť	4.0 3.2	3.8 4.7 4.2 4.3 4.2 4.3 4.2 4.2 4.2 4.2 4.2 3.8	3.8
3.2	Ū	4.0	4.2	4.2
3.6	v	3.9	4.4	4.4
4.2	Ŵ	4.5	5.0	5.0
3.4	Х	4.0	4.3	4.3
4.0	Y	4.3	4.8	4.8
3.2	Ζ	3.7	4.0	4.0



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. SEE SHEETS 2 THRO FOR CORRESPONDING METRIC UNITS.

		$\begin{array}{c} 1.4\\ 6.0\\ 6.5\\ 9\\ 7.4\\ 6.4\\ 6.4\\ 6.6\\ 6.4\\ 6.4\\ 6.6\\ 6.4\\ 7.3\\ 8.4\\ 6.9\\ 8.0\\ 6.4\\ 7.3\\ 8.4\\ 6.9\\ 8.0\\ 6.4\\ \end{array}$	I J K L M M N O P Q R R S T U U V V W X Y Z I	3.0 7.7 7.6 6.4 9.0 8.0 8.3 8.0 8.3 8.0 8.3 8.0 6.4 8.0 7.8 8.9 8.0 8.6 7.5 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1		3. 4 3. 1 3. 2 7. 5 3. 4 3. 7 3. 4 3. 7 3. 4 3. 7 3. 4 3. 7 3. 7		3.4 8.1 8.2 7.5 9.4 8.4 8.3 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	
		8 6.6 2.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6	0 1 2 3 4 5 6 7 8 9	0 2 3 0 2 3 8. 4. 8. 9. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*         *	P     P       4     7       8.3     4.0       8.0     8.0       7.9     8.0       8.0     6.9       8.0     8.0		
X 3.2 4	3.2 3.2 3.7 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 8	M         M           0         0           1         0           3         0           4         0	2   	N     N       3     6     8       4.1     2.2       4.0     4.5       4.0     4.0       4.0     4.0       4.0     4.0       4.0     4.0       4.0     4.0       4.0     4.0       4.0     4.0	DIGIT 9 1 5 4.3 2.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2	N         N           M         M           4         7           4.1         2.0           4.0         4.0           4.0         4.0           4.0         4.0           4.0         4.0           4.0         4.0           4.0         4.0           4.0         4.0           4.0         4.0			
		D	EP	EN IONWEA ARTME	NT OF	OF PI TRAN	ENNS vspor	TATIO	N
	D	IRE	CT	SP APPL	ACING	ETTE	RS &	NUME	ERALS
S OUGH	7 CH I	Shu	(	MAY 25, 20 C Rowe ENGINEERING	ESE	(EN) ENDED M. M. Cola	GL I SI AY 25, 20 <b>t</b> ul	007 SHT.	14 OF 18 8700C

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							
8		88 - 12 68	6. <u>7.</u> 5.	ف ف ف			
8.0	Α	8.6	9.7	9.7			
	В	8.0	8.4	8.0			
	С	7.5	8.0	8.0			
6.4	D	8.0	8.4	8.0			
5.9	E	7.0	7.5	7.5			
5.9		7.0	7.5	7.5			
		8.0	8.4	8.0			
6.4		8.0	8.4	8.4			
		3.0	3.4	3.4			
6.0		7.7	8.1	8.1			
6.5	К	7.6	8.2	8.2			
		6.4	7.5	7.5			
		9.0	9.4	9.4			
6.4		8.0	8.4	8.4			
6.6		8.3	8.7				
6.4		8.0	8.4	8.0			
6.6	Q	8.3	8.7				
6.4	R	8.0	8.4	8.0			
6.4	S T	8.0	8.4	8.0			
5.9		6.4	7.5	7.5			
6.4	U	8.0	8.4	8.4			
7.3	۷	7.8	8.9	8.9			
8.4	W	8.9	10.0	10.0			
6.9	Х	8.0	8.5 9.7	8.5 9.7			
8.0	Y	8.6	9.7	9.7			
6.4	Ζ	7.5	8.0	8.0			

1	8" UPPER		CASE		
18	115.1 11.3 111.0 111.0 113.5 113.5 115.8		12. 7		
	AJTVWY				
15.1 A	16.2	18.4	18.4		
12.1 B	15.5	16.3	15.5		
12.1 C	14.3 15.5	15.5	15.5		
12.1 D	15.5	16.3	15.5		
11.0 E	13.2	14.4	14.4		
11.0 F	13.2	14.4	14.4		
12.1 G	15.5 15.5	16.3	15.5		
12.1 H	15.5	16.3	16.3		
2.8 I 11.3 J	6.2	7.0	7.0		
	14.6 14.6	15.5	15.5		
12.4 K 11.0 L	14.6	15.8 14.4	15.8 14.4 18.2		
13.9 M	17.3	18.2			
12.1 N	15.5	16.3	16.3		
12.7 0	16.0	16.9	16.0		
12.1 P	15.5	16.3	15.5		
12.7 Q	16.0	16.9	16.0		
12.1 R	15.5	16.9 16.3	15.5		
12.1 S	15.5	16.3	15.5		
11.0 T	12.1	14.4	14.4		
12.1 U 13.5 V	15.5 14.6	16.3	16.3		
13.5 V	14.6	16.9	16.9		
15.8 W	16.9	19.1	19.1		
12.1 X	14.3	15.5	15.5		
15.2 Y	16.3	18.6	18.6		
12.1 Z	14.3	15.5	15.5		

	1:	2" UPPER	CASE to 12" UPPER	CASE		
12		► 10.0 ► 7.5 = 7.5 = 7.3 = 7.3 = 7.3 = 7.3 = 10.5 = 10.1		CCOQSX2 8 8 		
10.0	A	10.8	12.3	12.3		
8.1	B	10.3	10.9 10.3	10.3 10.3		
8.1 8.1	С	9.6 10.3	10.3	10.3		
	D E	10.3	10.9	10.3		
7.3	F	8.8 8.8 10.3	9.6 9.6	9.6 9.6		
8.1	G	10.3	10.9	10.3		
8.1	H	10.3	10.9	10.5		
1.9	I	4.1	10.9 4.7	10.9 4.7		
7.5	J	9.8	10 3	10.3		
8.3	K	9.8 9.8	10.3 10.5	10.5		
7.3	L	8.1	9.6	9.6		
9.3	M	11.5	12.1	12.1		
8.1	N	10.3	10.9	10.9		
8.4	0	10.7	11.3	10.7		
8.1	Ρ	10.3	10.9 11.3	10.3 10.7		
8.4	Q	10.7	11.3	10.7		
8.1	R	10.3	10.9	10.3		
8.1	S	10.3	10.9	10.3		
7.3	Ť	8.1	9.6	9.6		
8.1	U	10.3	10.9	10.9		
9.0	V	9.8 11.3	11.3	11.3		
10.5	W	11.3	12.8	12.8		
8.1	Х	9.6	10.3	10.3		
10.1	Y	10.9	12.4	12.4		
8.1	Ζ	9.6	10.3	10.3		

		18"	DΙ	GIT	† † ¢	5 18	3 ''	DIG	ΙT		
18	3	12.7			12.1			4.4	12.1	13.2	12.1
	12 7 0		2	3	6	8	9	1	5	4	7
12.7	0			16	.0			16	.9	16	.0
4.4	1			8.	6			8.	6	7.	. 8
12.1	2			15	.5			16	.3	15	.5
12.1	S		15.5 16.3 15				• 5				
13.2	4		16.6 16.6 14.				.3				
12.1	5			15	• 5			16	.3	15	.5
12.1	9			15	• 5			16	• 3	15	• 5
12.1	7			15	• 5			15	• 5	13	.2
12.1	8			15	• 5			16	.3	15	• 5
12.1	9			15	• 5			16	• 3	15	• 5

$\begin{array}{c c c c c c c c c c c c c c c c c c c $												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			12 ''	DΙ	GIT	†¢	> 12	2 "	DIG	ΙT		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12	2	•			8.1				8.1	•	8.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			0	2	3	6	8	9	1	5	4	7
	8.4	0			10	• 7			11	.3	10	• 7
8.1         3         10.3         10.9         10.3           8.8         4         11.1         11.1         9.6           8.1         5         10.3         10.9         10.3           8.1         6         10.3         10.9         10.3           8.1         7         10.3         10.9         10.3           8.1         7         10.3         10.3         8.8           8.1         8         10.3         10.3         10.3	2.9	1			5.	. 7			5.	. 7	5.	2
8.8         4         11.1         11.1         9.6           8.1         5         10.3         10.9         10.3           8.1         6         10.3         10.9         10.3           8.1         7         10.3         10.9         10.3           8.1         8         10.3         10.9         10.3	8.1	2			10	.3			10	.9	10	.3
8.1         5         10.3         10.9         10.3           8.1         6         10.3         10.9         10.3           8.1         7         10.3         10.9         10.3           8.1         7         10.3         10.9         10.3           8.1         8         10.3         10.9         10.3	8.1	3			10	1.3			10	.9	10	.3
8.1         6         10.3         10.9         10.3           8.1         7         10.3         10.3         8.8           8.1         8         10.3         10.9         10.3	8.8	4			11	.1			11	.1	9.	6
8.1         7         10.3         10.3         8.8           8.1         8         10.3         10.9         10.3	8.1	5			10	.3			10	.9	10	.3
8.1 8 10.3 10.9 10.3	8.1	6			10	1.3			10	• 9	10	.3
	8.1	7			1 C	.3			10	.3	8.	. 8
8.1 9 10.3 10.9 10.3	8.1	8			10	.3			10	• 9	10	.3
	8.1	9			10	.3			10	.9	10	.3

	1 (	O" UPPER	CASE to 10" UPPER	CASE		
10	)	F 8.4 F 6.3 A 7.5 A 8.8		0 1 0 0 2 Z		
8.4	Α	9.0	10.2	10.2		
6.7	В	8.6	9.1	8.6		
6.7	С	8.0	8.6	8.6		
6.7	D	8.6	9.1	8.6		
6.1	EF	7.3 7.3	8.0	8.0		
6.1		7.3	8.0	8.0		
6.7	G	8.6	9.1	8.6		
6.7	Н	8.6	9.1	9.1		
1.6	Ι	3.4	3.9 8.6	3.9		
6.3	J	8.1		8.6		
6.9	Κ	8.1	8.8	8.8		
6.1	L	6.7	8.0	8.0		
7.7	М	9.6	10.1	10.1		
6.7	Ν	8.6	9.1	9.1		
7.0	0	8.9	9.4	8.9		
6.7	Ρ	8.6	9.1	8.6		
7.0	Q	8.9	9.4	8.9		
6.7	R	8.6	9.1	8.6		
6.7	S	8.6	9.1	8.6		
6.1	Ť	6.7	8.0	8.0		
6.7	U	8.6	9.1	9.1		
7.5	۷	8.1	9.4	9.4		
8.8	W	9.4	10.6	10.6		
6.7	Х	8.0	8.6	8.6		
8.4	Y	9.1	10.3	10.3		
6.7	Ζ	8.0	8.6	8.6		

		10"	DI	GIT	†c	5 10	) '' (	DIG	ΙT			
10	)	7.0			6.7	2.4	6.7	7.3	6.7			
		0	2	3	6	8	9	1	5	4	7	
7.0	0			8.	9			9.	. 4	8.9		
2.4	1			4.	8			4.	. 8	4.	. 3	
6.7	2			8.	6			9.		8.	6	
6.7	3		8.6 9.1				. 1	8.	6			
7.3	4			9.	2			9.	2	8.0		
6.7	5				6			9.		8.6		
6.7	6			8.	6			9.	. 1	8.	6	
6.7	7		8.6 8.6 7.3									
6.7	8			8.	6			9.		8.	6	
6.7	9			8.	6			9.	. 1	8.	6	

		(	5" UPPER	CASE to 6" UPPER C	CASE	Γ
	6		×     5.0       ×     ×       ×     ×       ×     ×       ×     ×       ×     ×	B         E         L <thl< th=""> <thl< th=""> <thl< th=""> <thl< th=""></thl<></thl<></thl<></thl<>	Z X S Ø O 9 J	
5.0		4	5.4	6.1	6.1	
4.0	) E	3	5.2	5.4	5.2	
4.0		2	4.8	5.2	5.2	
4.(			5.2 4.8 5.2	5.4	5.2	
3.	7 E		4.4	4.8	4.8	
3.	7 F		4.4 5.2 5.2	4.8	4.8	
4.(		3	5.2	5.4	5.2	4
4.(		+	5.2	5.4	5.4	Ŀ
0.9	3 🗌	I	2.1	2.4 5.2	2.4 5.2	Ŀ
3.8	3 .	J	4.9	5.2	5.2	Ŀ
4.			4.9	5.2	5.2	
3.			4.0	4.8	4.8	
4.6	5 N		5.8 5.2 5.3 5.2	6.1	6.1	
4.(	<u> 1</u>		5.2	5.4	5.4	
4.2			5.3	5.6	5.3	
4.(	) F		5.2	5.4	5.3 5.2 5.3 5.2	
4.2	2 0		5.3 5.2 5.2	5.6	5.3	
4.(			5.2	5.4	5.2	
4.0	) (		5.2	5.4	5.2	
3.		Γ.	4.0	4.8	4.8	
4.(	ι		5.2	5.4	5.4	
4.5			4.9	5.6	5.6	
5.3			5.6	6.4	6,4	
4.(			4.8	5.2	5.2	
5.		Y Z	5.4 4.8	6.2 5.2	6.2 5.2	
4.(		<u> </u>	4.8	5.2	5.2	

		6" DIGIT to 6" DIGIT								Т		
	6		4.2			4.0			1.5	4.0	4.4	4.0
Ζ			0	2	3	6	8	9	1	5	4	7
	4.2	0			5.	. 3		5.	6	5.	3	
	1.5	1			2.	, 9			2.9		2.6	
	4.0	2			5.	. 2			5.4		5.2	
	4.0	3			5.	. 2			5.	. 4	5.2	
	4.4	4			5.	. 5			5.	5	4.8	
	4.0	5			5.	. 2			5.4		5.2	
	4.0	6			5.	. 2			5.	. 4	5.	2
	4.0	7		5.2 5.2 4.4								
	4.0	8		5.2 5.4 5.2								
	4.0	9		5.2 5.4 5.2								

		4" Uf	PPEF	2	CAS	SE	†0	4		UF	PP	ER	С	:AS	SE		
		м 10 4		4	7	4	~	ھ ھ	4	-			~			œ	1
4		m n n	i m m	3.	2.	~	2	;  ~;	$\sim$	m		c	<b>v</b>			<b>5</b>	
		AJT	V W	Υ	ВD	EF	н	IΚ		м	NF	R	U	С	G	DQ	S
7 7											4.1						
3.3	A B	3.6			4.1							4.1					
2.7	C	3.4			3.6 3.4							3.4					
2.7		3.4			3.4 3.6							3.4					
2.4	DE	$\begin{array}{c} 3.4\\ 3.2\\ 3.4\\ 2.9\\ 2.9\\ 2.9\\ 3.4\\ 3.4\\ 3.3\\ 3.3\\ 2.7\\ 3.8\\ 3.3\\ 2.7\\ 3.8\\ 3.4\\ 3.6\\ 3.4\\ 3.6\\ 3.4\\ 3.6\\ 3.4\\ 3.4\\ 3.4\\ 3.4\\ 3.4\\ 3.4\\ 3.8\\ 3.4\\ 3.8\\ 3.8\\ 3.8\\ 3.8\\ 3.8\\ 3.8\\ 3.8\\ 3.8$			3.6 3.2 3.2 3.6							3.2					
2.4	F	2.9			3.2							3.4 3.4 3.2 3.2 3.4 3.6 1.6					
2.7 2.7 0.6	G	3.4			3.6								3.4				
2.7	H	3.4			3.6							3.6					
0.6	Ι	1.4			16							1.6					
2.5	J	3.3			3.4							3.4					
2.8	К	3.3			3.5							3.5					
2.4	L	2.7			3.2							3.2					
3.1	М	3.8			3.4 3.5 3.2 4.0 3.6							4.0					
2.7	Ν	3.4			3.6							3.6					
2.8	0	3.6			3.8 3.6							3.6					
2.7	Ρ	3.4			3.6							3.4					
2.8	Q	3.6			<u> </u>							3.6					
2.8 2.7 2.7 2.4	R S T	3.4			3.6							3.4					
2.7	5	5.4			5.6							3.4					
2.4		2.7			3.2							3.2					
2.1	U V	3.4			3.8 3.6 3.6 3.2 3.6 3.8 4.3							3.4 3.5 3.2 4.0 3.6 3.4 3.4 3.4 3.4 3.2 3.6 3.4 3.4 3.2 3.6 3.8 4.3					
2.7 3.0 3.5	W	3.3			J. 0							3.8					
2.7	X	3.0			3.4						3.4						
3.4	Ŷ	3.2 3.6			4.1						4.1						
2.7	Z	3.2			3.4						3.4						
L 1	4	J.Z			5.4							J.4					



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. SEE SHEETS 2 THRO FOR CORRESPONDING METRIC UNITS.

		8" UPPER C	ASE to 8" UP	PER CASE						
6.7	8	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- <u>0</u> 4 m u 0 0 0	5. 6 6. 6 7. 7	2.4					
x z		AJTVWYB	DEFHIKLMN		ISXZ					
	6.7 A 5.4 B 5.4 C	7.2 6.9 6.4	8.2 7.3 6.9	8. 6. 6.	9					
	5.4 D 4.9 E	6.9 5.9	7.3	6. 6.	4					
	4.9 F 5.4 G 5.4 H	5.9 6.9 6.9	6.4 7.3 7.3	6. 6. 7.	9					
	1.3 I 5.0 J	2.8 6.5	3.1 6.9	3.	1 9					
	5.5 K 4.9 L 6.2 M	6.5 5.4 7.7	7.0 6.4 8.1	7. 6. 8.	4					
	5.4 N 5.6 0	6.9 7.1	7.3 7.5	7. 7.	3					
	5.4 P 5.6 Q 5.4 R	6.9 7.1 6.9	7.3 7.5 7.3	6. 7. 6.	1					
	5.4 S 4.9 T	6.9 5.4	7.3 6.4	6.	9 4					
	5.4 U 6.0 V 7.0 W	6.9 6.5 7.5	7.3 7.5 8.5	7. 7. 8.	5					
	5.4 X 6.8 Y	6.4 7.3	6.9 8.3	6. 8.	9					
]	5.4 Z	6.4	6.9	6.	9					
		9 9		6 4						
	8	uni uni 0 2 3 6		ی بر 4 7						
	5.6 0 1.9 1 5.4 2	7.1 3.8 6.9	7.5 3.8 7.3	7.1 3.4 6.9						
	5.4 3 5.9 4	6.9 7.4	7.3 7.4	6.9 6.4						
	5.4 5 5.4 6 5.4 7	6.9 6.9 6.9	7.3 7.3 6.9	6.9 6.9 5.9						
	5.4 8 5.4 9	6.9 6.9	7.3 7.3	6.9 6.9						
~	4"DI	GIT to 4"   ∼	DIGIT							
∾ <b>4</b>	<ul><li>N</li><li>0</li><li>2</li></ul>	∾ 3 6 8 9	1         5         4         7	-						
2.8 C		3.6 1.9	3.8 3.6 1.9 1.7							
2.7 2 2.7 3 2.9 4		3.4 3.4 3.7	3.6         3.4           3.6         3.4           3.7         3.2							
2.7 5		3.4 3.4	3.6 3.4 3.6 3.4							
2.7 7 2.7 8 2.7 9		3.4 3.4 3.4	3.4         2.9           3.6         3.4           3.6         3.4	-						
ENGLISH UNITS										
	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering									
		SPA	ACING CH	ARTS						
D	IRECI	APPLI	ED LETTE	RS&N	IUMERALS					
			JPPER CA ES D (EN							
S		MAY 25, 2007		MAY 25, 2007	SHT. 15 OF 18					
OUGH 7 CHI OPE	F, TRAFFIC		D CHIEF HIGHWAY EN	IGINEER	TC-8700C					

18	B" UPPER	CASE to 18" UPPER	CASE
18	11.3 9.0 11.0 13.5 11.3	9.8 9.0 9.8 9.8 9.0 9.8 9.0 9.0 9.8	10.4 9.8 9.8 9.8
	AJTVWY	BDEFHIKLMNPRU	C G O Q S X Z
11.3 A	12.3	14.3	14.3
9.8 B	12.9	13.6	12.9 12.9 12.9
9.8 C	11.9	12.9	12.9
9.8 D	12.9	13.6	12.9
9.0 E 9.0 F	11.0	12.0 12.0	12.0
9.0 F 9.8 G	11.0 12.9	13.6	12.0 12.9
9.8 H	12.9	13.6	13.6
9.8 H 2.5 I	5.6	6.3	6.3
9.0 J	12.0	12.8	12.8
9.8 K	11.9	12.9	12.9
9.0 L	10.0	12.0	12.0 15.5
11.7 M	14.7	15.5	15.5
9.8 N	12.9	13.6	13.6
10.4 0	13.5	14.2	13.5
9.8 P	12.9	13.6	12.9
10.4 Q	13.5	14.2	13.5
9.8 R 9.8 S	12.9 12.9	13.6	12.9
9.8 S 9.0 T	12.9	13.6 12.0	12.9 12.0
9.8 U	12.9	13.6	13.6
11.0 V	12.0	14.0	14.0
13.5 W	14.5	16.5	16.5
10.6 X	12.6	13.6	13.6
11.3 Y	12.3	14.3	14.3
9.8 Z	11.9	12.9	12.9

	1:	2" UPPER	CASE to 12" UPPER	CASE
12	2	A 1.5 A 1.5 A 1.3 A 1.3 A 1.3 A 1.5 A 1.5		6 9 9 9 9 9 9 9 6 9 9 9 9 9 9 9 9 7 7 9 9 9 7 9
7.5	Α	8.2	9.5	9.5
6.6	В	8.6	9.1	8.6
6.6	С	7.9	8.6	8.6
6.6	D	8.6	9.1	8.6
6.0	Е	7.4	8.0	8.0
6.0	F	7.4	8.0	8.0
6.6	G	8.6	9.1	8.6
6.6	Н	8.6	9.1	9.1
1.7	I	3.7	4.2	4.2
6.0	J	8.0	8.5	8.5
6.6	К	7.9	8.6	8.6
6.0	L	6.7	8.0	8.0
7.8	М	9.8	10.3	10.3
6.6	Ν	8.6	9.1	9.1
6.9	0	9.0	9.5	9.0
6.6	P	8.6	9.1	8.6
6.9	Ø	9.0	9.5	9.0
6.6	R S	8.6	9.1	8.6
6.6	T	8.6	9.1	8.6
6.0 6.6	U	6.7	8.0 9.1	8.0
7.3	V	8.6	9.1	9.1 9.3
9.0	W	8.0 9.7	9.3	11.0
7.0	X	8.4	9,1	9.1
7.5	Ŷ	8.2	9,5	9.5
6.6	Z	7.9	8.6	8.6
0.0	_			0.0

		8 "	DΙ	GIT	to	5 18	3 ''	DIG	ΙT		
18	3	10.4	8 6					3.7	9 <b>.</b> 8	11.0	9 <b>.</b> 8
		0	2	3	6	8	9	1	5	4	7
10.4	0			13	• 5			14	.2	13	• 5
3.7	1			7.	. 5			7.	. 5	6.	. 7
9.8	2			12	.9			13	.6	12	.9
9.8	3			12	.9			13	• 6	12	.9
11.0	4			14	.0			14	.0	12	.0
9.8	5			12	.9			13	.6	12	.9
9.8	6			12	.9			13	• 6	12	.9
9.8	7			12	• 9			12	.9	10	. 9
9.8	8				• 9			13	.6	12	.9
9.8	9			12	.9			13	• 6	12	.9

		12 "	DI	GIT	tc	> 12	2 ''	DIG	ΙT		
12	2	6.6									
		0	2	3	6	8	9	1	5	4	7
6.9	0			9.	. 0			9.	5	9.	. 0
2.4	1		5.0						0	4.5	
6.6	2			8.	6			9.	. 1	8.	6
6.6	3		8.6 9.1			. 1	8.	6			
7.3	4		9.3				9.	. 3	8.	0	
6.6	5		8.6 9.1			8.	6				
6.6	6		8.6		8.6 9.1		8.6 9.1				6
6.6	7	8.6 8.6							6	7.	2
6.6	8	8.6 9.						. 1		6	
6.6	9			8.	6			9.	. 1	8.	. 6

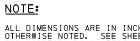
	1	O" UPPER	CASE to 10" UPPER	CASE
				CAJL
10	)	6.3 5.0 6.1 6.3 6.3		5.5 5.5
		AJTVWY	BDEFHIKLMNPRU	
6.3	Α	6.8	7.9	7.9
5.5 5.5	В	7.2 6.6	7.6	7.2 7.2
5.5	С	6.6	7.2	7.2
5.5	D	7.2	7.6	7.2
5.0	Ē	6.1	6.7	6.7
5.0 5.5	F	6.1	6.7	6.7
5.5	G	7.2	7.6	7.2
5.5	Н	7.2	7.6	7.6 3.5
1.4	1	3.1	3.5	3.5
5.0	J	6.7	7.1	7.1
5.5	Κ	6.6	7.2	7.2
5.0	L	5.6	6.7	6.7
6.5	М	8.2	8.6	8.6
5.5 5.8	Ν	7.2 7.5	7.6	7.6
5.8	0	7.5	7.9	7.5
5.5	Ρ	7.2	7.6	7.2
5.8	Q	7.2 7.5 7.2 7.2 7.2 5.6	7.9	7.2 7.5 7.2 7.2 7.2
5.5	R	7.2	7.6	7.2
5.5	S	7.2	7.6	7.2
5.0	Т	5.6	6.7	6.7
5.5	U	7,2	7.6	7.6
6.1	٧	6.7	7.8	7.8
7.5	W	8.1	9.2	9.2
5.9	Х	7.0	7.6	7.6
6.3	Y	6.8	7.9	7.9
5.5	Ζ	6.6	7.2	7.2

	10" DIGIT to 10" DIGIT											
10	)	5.8						2.0	5.5	6.1	5.5	
		0	2	3	6	8	9	1	5	4	7	
5.8	0			7.	5			7.	. 9	7.5		
2.0	1		4.1 4.1 3.7							. 7		
5.5	2			7.	2			7.	6	7.	. 2	
5.5	3			7.	2			7.	6	7.	. 2	
6.1	4	7.8				7.	. 8	6.	. 7			
5.5	5		7.2			7.	6	7.	. 2			
5.5	6				2			7.	6	7.	. 2	
5.5	7		7.2 7.2 6.0									
5.5	8		7.2 7.6 7.2									
5.5	9			7.	2			7.	6	7.	. 2	

		6" UPPER	CASE to 6" UPPER C	CASE
6		A J T V W A W W W W	m o mamon m	
3.8	Α	4.1	4.8	4.8
3.3	В	4.3	4.8 4.5	4.8 4.3
3.3	С	4.0 4.3	4.3	4.3 4.3
3.3	D	4.3	4.5	4.3
3.0 3.0 3.3 3.3	Ē	3.7 3.7 3.7	4.0	4.0
3.0	F	3.7	4.0	4.0
3.3	S	4.3 4.3 1.9 4.0	4.5 4.5 2.1	4.3 4.5
3.3	Н	4.3	4.5	4.5
0.8	Ι	1.9	2.1	2.1
3.0	J	4.0	4.3	4.3
3.3	Κ	4.0	4.3	4.3
3.3 3.0 3.9 3.3 3.5	L	3.3	4.0	4.0
3.9	М	4.9	5.2 4.5 4.7	5.2
3.3	Ν	4.3	4.5	4.5 4.5
3.5	0	4.5	4.7	4.5
3.3 3.5 3.3 3.3 3.3 3.0	P	4.0 3.3 4.9 4.3 4.5 4.3 4.5 4.3 4.3 4.3 4.3 4.3	4.5	4.3 4.5
3.5	g	4.5	4.7	4.5
3.3	R	4.3	4.5 4.5 4.0	4.3
5.5	S T	4.3	4.5	4.3
3.0		3.3	4.0	4.0
3.3	U	4.3	4.5	4.5
3.1	× <	4.0	4. (	4.(
4.5		4.8	5.5	5.5
3.5	X	4.2	4.5	4.5
3.8	Υ	4.1	4.8	4.8
3.3	Ζ	4.0	4.3	4.3

				6 "	6" DIGIT †0 6" DIGIT									
3• 5 3		6		3.5			3. 3			1.2	3.3	3. 7	3.3	
ΧZ				0	2	3	6	8	9	1	5	4	7	
	]	3.5	0		4.5						. 7	4.5		
		1.2	1		2.5						5	2.2		
		3.3	2		4.3					4.	5	4.	3	
		3.3	З			4.	. 3			4.	5	4.	3	
		3.7	4			4.	. 7		4.7			4.0		
		3.3	5		4.3 4.5			5	4.	3				
		3.3	9				. 3			4.5		4.3		
		3.3	7			4.	. 3		4.	3	3.	6		
		3.3	8	4.3 4.5 4.3										
		3.3	9			4.	. 3			4.	5	4.	3	

		4"U	PPE	R	CAS	SE	†c	4	н	U	PP	ER	0	CA	SE			
		ыo	40			0		<u>ہ</u> و		9			N			М	~	
4		~ ~	NIM	~i	2.	N.	~	<u>.</u>	~i	2.		c	Ň			s.	~	ile
'		AJT	VW	Y	ВD	EF	н	ΙK	1	м	NI	PR	U	С	G	0 Q	s	t
				1'				_	_	141	- T	<u> </u>	10	Ĕ	0		_	1
2.5	A B	2	• /					<u>.</u>	2					-		<u>.</u>	2	
2.2	C	2	• 9					<u>.</u>	0					-		2.	9	_
2.2		2	<u>. 0</u>					- 2.	3					-		2.	3	
2.0	F	2	• J 5					2	7					-		2.	7	-
2.5 2.2 2.2 2.2 2.0 2.0	ъш	2	.7 .9 .9 .5 .5 .9 .9 .2 .7					3. 3. 2. 3. 2. 2.	7					-		3. 2. 2. 2. 2. 2. 2. 3.	7	-
2.2	G	2	.9					3.	0							2.	9	-
2.2 2.2 0.6	H	2	.9					3.	<u>ŏ</u>							3.	0	-
0.6	Ι	1	. 2					1.	4							1.	4	_
2.0 2.2 2.0 2.6 2.2 2.3 2.2 2.3 2.2 2.3 2.2 2.2 2.0 2.2 2.0 2.2	I J	2	.7					2.	8							2.	8	_
2.2	Κ	2	• 6 • 2 • 3 • 9 • 0 • 9 • 9					2. 2. 3. 3. 3. 3. 3. 3. 3.	9							2.	9	_
2.0	L	2	• 2					2.	7							2.	7	
2.6	М	3	.3					3.	4							3.	4	
2.2	Ν	2	.9					3.	0							3.	0	
2.3	0	3	• 0					3.	2							3.	0	
2.2	Ρ	2	.9					3.	0							2.	9	
2.3	Q R S T	3	.0					3.	2							3.	0	
2.2	R	2	.9					3.	0							2.	9	
2.2	S	2	.9					<u>3.</u>	0							2.	9	
2.0		2	• 2					2.	(							2.	(	
2.2	U	2	<u>. 9</u>					<u> </u>	0							<u>3.</u>	0	
2.4	V	2	.9 .9 .9 .7 .2 .2 .8 .8					2. 3. 3. 3. 3. 3.	7					-		<u>.</u>	7	_
2.0	W X	3	• ८					<u>J.</u>	<u>(</u>					-		<u>.</u>	1	
2.3	Y		• 0					<u>ی</u>	<u>v</u>					-		<u>.</u>	<u>v</u>	
3.0 2.3 2.5 2.2	T		• 1					2.	<u> </u>					-		2. 2. 3. 3. 3. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 2. 2. 2. 2. 3. 3. 3. 3. 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	2 0	_
2.2	Ζ	L 2	. 0					۷.	J							۷.	J	



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. SEE SHEETS 2 THRO FOR CORRESPONDING METRIC UNITS.

	8           5.0         A           4.4         B           4.4         C           4.0         E           4.0         F           4.4         C           4.4         C           4.4         K           4.4         K           4.4         K           4.4         K           4.0         L           5.2         M           4.4         N           4.6         Q           4.4         R           4.4         R           4.4         N           4.6         Q           4.4         N           4.6         Q           4.4         N           4.7         Y           6.0         W           4.7         Y           5.0         Y           4.4         Z	8 UPPER ( 0 0 0 0 0 4 J T V W Y E 5.4 5.7 5.3 5.7 4.9 4.9 4.9 5.7 5.7 2.5 5.3 4.4 9 4.4 6.5 5.7 6.0 5.7 6.0 5.7 5.7 6.0 5.7 5.3 4.4 4.4 6.5 5.7 5.3 5.3 4.4 6.5 5.7 6.0 5.7 5.3 5.3 6.0 5.7 5.3 5.3 5.3 5.3 5.3 5.3 6.0 5.7 5.3 5.3 5.3 5.3 5.3 6.0 5.7 5.3 5.7 5.3 5.3 5.3 6.0 5.7 5.7 5.3 5.3 5.3 6.0 5.7 5.7 5.7 6.0 5.7 5.7 5.7 5.7 5.7 6.0 5.7 5.7 5.7 5.7 6.0 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7		8 " UPPE * 0 0 0 * 0 7 * 4 5 . 1 . 1 . 7 . 3 . 1 . 3 . 3 . 1 . 3 . 3 . 3 . 3 . 7 . 3 . 3 . 3 . 7 . 3 . 3 . 3 . 3 . 7 . 3 . 3 . 3 . 7 . 3 . 3 . 7 . 3 . 3 . 7 . 3 . 3 . 3 . 7 . 3 . 3 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7	4.4	3       7       7       7       3       7       1       8       7       7       3       7       3       7       1       0       7       3       1       2       3       0       3       0       3       0       3       0       3       0       3
Image: Non-State     Image: Non-State       Image: Non-State     Im	m.	8 " DIGIT • • • • • • • • • • • • • • •	to 8 " D 6 8 9 0 3 7 7 7 7 7 7 7 7 7 7 7	IGIT         9       7         1       5         6.3       3         6.1       6         6.1       6         6.1       6         6.1       6         6.1       6         6.1       6         6.1       6         6.1       6         7       7         6.1       7         7       7         7       7         9       2.9         2.9       2.9         2.9       2.9         2.9       2.9         2.9       2.9	4     4       5     7       5     7       5     7       5     7       5     7       5     7       5     7       5     7       5     7       5     7       5     7       5     7       5     7       5     7	
	DEI bure	MONWEA PARTMEN AU OF HIGHW SP [ APPL]	ALTH ( NT OF (AY SAFET) ACING	OF PE. TRANS ( and tr CHAF ETTER	NNSYL Sporta affic engi RTS S & N	TION
OUGH 7	Alu	MAY 25, 200 C Rowe C ENGINEERING A		nded MAY	25,2007 L	SHT. 16 OF 18 TC-8700C

	10	)" UPPER	CASE to 10" UPPER	CASE
10	)	A A A A A A A A A A A A A A A A A A A	4 <u>w</u> 4 - 4 w 4	Z X S D O D D Z 4.2 4.2 4.2
5.3	Α	5.8	6.8	6.8
4.2	В	5.7	6.1	5.7
4.2 4.2	С	5.2 5.7	5.7	5.7
4.2	D	5.7	6.1	5.7
3.8	DEF	4.8	5.3	5.3
3.8		4.8	5.3	5.3
4.2	G	5.7	6.1	5.7
4.2	Н	5.7	6.1	6.1
1.3	Ι	2.8	3.1	3.1
4.4	L	5.9	6.3	6.3
4.4	Κ	5.4	5.9	5.9
3.8	L	4.3 6.3 5.7	5.3 6.7	5.3 6.7
4.8	М	6.3		
4.2	Ν	5.7	6.1	6.1
4.5	0	6.0	6.4	6.0
4.2	Ρ	5.7	6.1	5.7
4.5 4.2	Ø	6.0 5.7	6.4	6.0 5.7
4.2	R	5.7	6.1	5.7
4.2	S	5.7	6.1	5.7
3.8	T	4.3	5.3	5.3
4.2	U	5.7	6.1	6.1
4.6	× ×	5.1	6.1	6.1
6.3	W	6.8	7.8	7.8
4.6	Х	5.6	6.1	6,1
5.3	Y	5.8	6.8	6.8
4.2	Ζ	5.2	5.7	5.7

	10" DIGIT to 10" DIGIT												
10	<b>`</b>	4.5	4.2					2.0	4.2	4.8	4.2		
		0	2	3	6	8	9	1	5	4	7		
4.5	0			6.	6.4		6.0						
2.0	1		3.9 3.9							3.5			
4.2	2			5.	. 7			6.	. 1	5.	. 7		
4.2	3			5.	. 7			6.	. 1	5.	. 7		
4.8	4		6.3			6.	. 3	5.	. 3				
4.2	5	5.7				6.	. 1	5.	. 7				
4.2	6			5.	. 7			6.	. 1	5.	. 7		
4.2	7		5.7 5.7 4.7										
4.2	8		5.7 6.1 5.7										
4.2	9			5.	. 7			6.	. 1	5.	. 7		

		8 '	וי	UF	P	ΞF	R	СA	12	Ε		†c	)	8	н	U	PF	۶E	R	2	CΑ	S	Е				
		m		0			m.	4		С	>	4	0	3.5	0	6.				4			Γ	و		2	
8		4	б	m	m	2 Q	4	m	•	r	5	m	-	m	m	m.			_	m		_		m	m	m	M
		Α	J	Т	۷	W	Y	ВΙ	D	Е	F	н	Ι	К	L	М	Ν	Ρ	F	۱	I C	G	0	Q	S	X	Z
4.3	Α		4.7					5.5							5.5												
3.4	В			4.	6								4	1. 1	9									4.	6		
.4	С			4.	2								4	1. (	6							4.6					
3.4 3.0 3.0	D		4.6 3.8			4.9							4.6														
3.0	E		3.8			4.9 4.2 4.2								4.2													
3.0	F		3.8			4.2							4.2														
3.4	G		4.6			4.9						4.6															
3.4	Н	4.6 2.2 4.7 4.3			4.9 2.5						4.9																
1.0	I	-	2.2								2	•	2						+			2.	5				
3.5 3.5	J K			4.	+			5.0 4.7						+			5.	<u>0</u>									
3.0	L	-		4.	2				4.1						+	4.2											
3.9	M			5.	4			5.4						+	5.4												
3.4	N			4.				4.9						+			4.	4 a									
3.6	0	-		4.				5,1						4.8			-										
3.6 3.4	P			4.	6			4.9						4.6													
3.6	Q			4	8			5 <b>.</b> 1						+			4.										
3.4	R			4.	6		_	4.9						+			4.			_							
3.4	S			4.	6			4.9						4.6													
3.0	T			3.	4			4.2									4.	2		_							
3.4	U			4.	6			4.9									4.	9		_							
3.7	V			4.	. 1			4.9						4.9													
5.0	W	5.4			6.2						6.2																
3.7	Х			4.	5			4.9							4.9												
4.3	Y			4.				5.5							5.5												
3.4	Ζ			4.	2								4	1. (	6									4.	6		

8" DIGIT to 8" DIGIT												
8		3.6	3.4					1.6	3.4	3.9	3.4	
		0	2	3	6	8	9	1	5	4	7	
3.6	0		4.8						, 1	4.8		
1.6	1	3.1					3.	. 1	2.8			
3.4	2		4.6					4.	9	4.	6	
3.4	3			4.	6			4.	9	4.	6	
3.9	4			5.	. 1	5.1			. 1	4.	. 3	
3.4	5			4.	6			4.	9	4.	6	
3.4	6			4.	6			4.	9	4.	6	
3.4	7	4.6 4.6						3.	. 8			
3.4	8		4.6 4.9 4.6									
3.4	9		4.6 4.9 4.6									

	4" UPPER	CASE to 4" UPPER C	ASE
4	2.1 1.8 1.8 2.5 2.5 2.5	1.7         1.5           1.5         1.5           1.7         1.7           1.9         1.9           1.9         1.9	1.8
		BDEFHIKLMNPRU	CGOQSXZ
2.1 A	2.3	2.7	2.7
1.7 B	2.3	2.4	2.3
1.7 C	2.3 2.3 2.1 2.3 1.9	2.3 2.4	2.3
1.7 D	2.3	2.4	2.3
1.5 E 1.5 F	1.9	2.1	2.1
1.5 F	1.9 2.3 2.3	2.1	2.1
1.7 G	2.3	2.4 2.4	2.3 2.4
1.7 H	2.3	2.4	2.4
0.5 I	1.1	1.3	1.3
1.8 J	2.4	2.5	2.5 2.4
1.8 K	2.4 2.2 1.7 2.5 2.3	2.4 2.1	2.4
1.5 L	1.7	2.1	2.1
1.9 M	2.5	2.7	2.7
1.7 N	2.3	2.4	2.4
1.8 0	2.4 2.3	2.6	2.4
1.7 P	2.3	2.4	2.3
1.8 Q	2.4 2.3	2.6	2.4
1.7 R 1.7 S	2.3	2.4	2.3
	2.3	2.4 2.1	2.3 2.1
1.5 T 1.7 U	2.3 1.7 2.3		2.4
1.7 U	2.3	2.4	2.4
2.5 W	2.0	3.1	3.1
1.8 X	2.7 2.2 2.3	2.4	2.4
2.1 Y	23	2.4	2.4
1.7 Z	2.3	2.3	2.3
	ا • ک	1 2.5	2.5

4" DIGIT to 4" DIGIT											
4 -				1.7					1.7	1.9	1.7
		0	2 3 6 8 9					1	5	4	7
1.8	0			2.	. 4			2.	. 6	2.4	
0.8	1			1.	. 6			1.6		1.	. 4
1.7	2		2,3					2.	4	2.	. 3
1.7	3			2.	. 3			2.	. 4	2.	. 3
1.9	4			2.	. 5			2.	5	2.	. 1
1.7	5			2.	. 3			2.	. 4	2.	. 3
1.7	6		2.3				2.3 2.4		. 4	2.	. 3
1.7	7		2.3				2.3		1.	9	
1.7	8		2.3				2.	. 4	2.	. 3	
1.7	9			2.	, 3			2.	. 4	2.	. 3

	V @ @ W @ V	2 <u>7 7 9 7 9 7 7</u> 2	8 2 -		
6	<u>ч 2.2 ч</u>	2. 2. 2. 2. 2.	~ ~ ~		
	AJTVWY	BDEFHIKLMNPRU	ccoqsx		
3.2 A	3.5	4.1	4.1		
2.5 B	3.4	3.7	3.4		
2.5 B 2.5 C 2.5 D	3.1	3.4	3.4		
2.5 D 2.3 E 2.3 F	3.4	3.7	3.4		
2.3 E	2.9	3.2	3.2		
2.3 F	2.9	3.2	3.2		
2.3 E 2.3 F 2.5 G 2.5 H 0.8 I 2.6 J 2.6 K 2.3 L	3.4 3.1 3.4 2.9 2.9 3.4 3.4 1.7	3.7 3.4 3.7 3.2 3.2 3.7 3.7 1.9 3.8 3.5 3.2	3.4 3.4 3.2 3.2 3.7 1.9 3.8 3.5 3.2		
0.8 I	5.4	3.1	3.1		
2.6 J	3.5	3 0	3.8		
2.6 K	3.0	3.5	3.5		
2.3 L	2.6	3.2	3.2		
2.9 M	3.5 3.2 2.6 3.8 3.4 3.6 3.4	4.0	4.0 3.7 3.6 3.4		
2.5 N	3.4	3.7	3.7		
2.7 0	3.6	3.9	3.6		
2.5 P	3.4	3.7	3.4		
2.7 Q 2.5 R	3.6	3.9	3.6		
2.9     M       2.5     N       2.7     O       2.5     P       2.7     Q       2.5     R       2.5     S       2.3     T       2.5     U       2.8     V	3.6 3.4 2.6 3.4 3.4 3.1	3.7 3.9 3.7 3.9 3.7 3.7 3.7 3.7 3.7 3.7 3.7	3.6 3.4 3.4 3.2 3.7		
2.5 S	3.4	3.7	3.4		
2.3 T	2.6	3.2	3.2		
2.5 U	3.4	5.7	5.7		
2.8 V		3.(	3.7		
3.8 W 2.8 X	4.1	4.7 3.7	4.7 3.7		
2.8 X 3.2 Y	3.4 3.5	4.1	4.1		
2.5 Z	3.1	3.4	4.1 3.4		

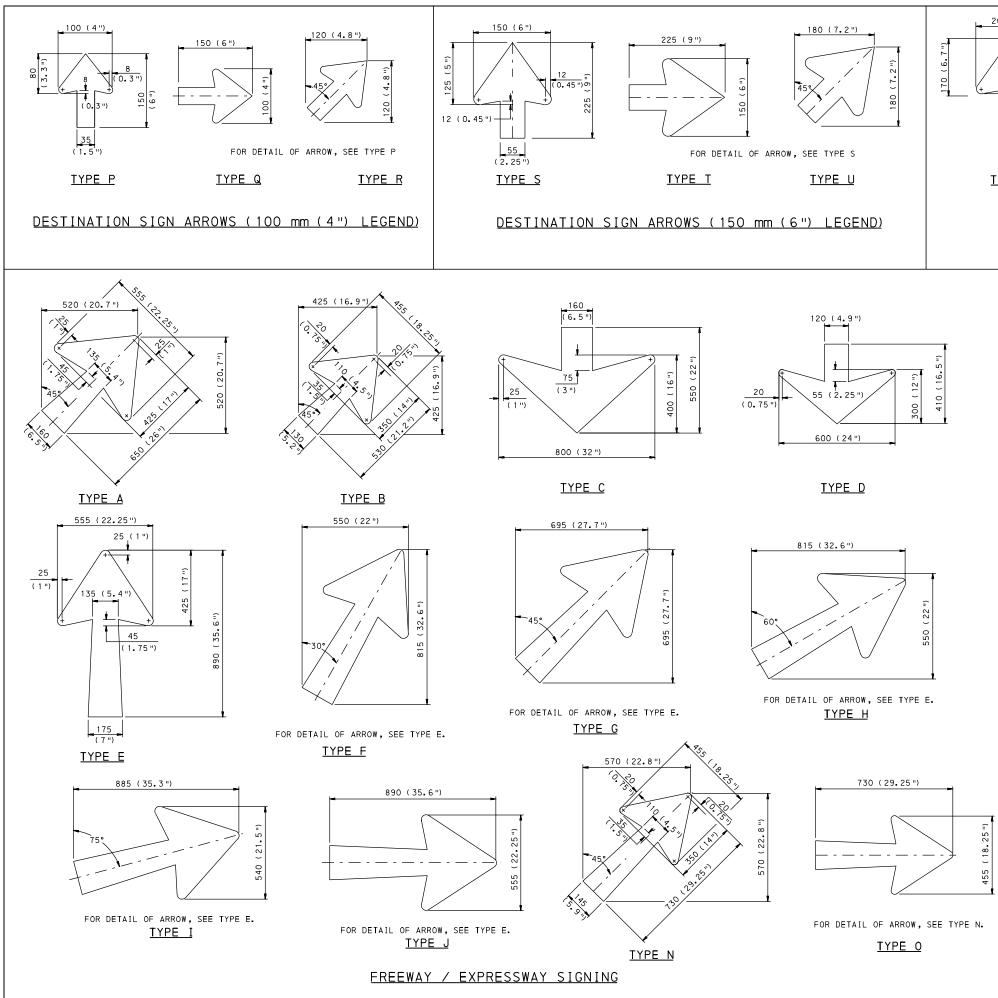
	6" DIGIT to 6" DIGIT											
~		2.7	2.5					1.2	2.5	2.9	2.5	
6					~			-	~		~	
		0	2	3	6	8	9	1	5	4	7	
.7	0			3.	, 9	3.	6					
•2 •5	1				. 4			2.	. 4	2.1		
• 5	2				. 4			3.		3.4		
• 5	3				. 4			3.	, 7	3.	4	
.9 .5	4			3.	. 8			3.	. 8	3.	2	
• 5	5				. 4			3.			4	
• 5	6			3.	. 4			3.	, 7	3.	4	
• 5	7		3.4 3.4 2.8									
• 5	8				. 4			3.			4	
• 5	9			3.	. 4			3.	. 7	3.	4	

# NOTES:

- USE OF SERIES B ALPHABET IS RESTRICTED TO STREET NAME SIGNS, PARKING SIGNS AND OTHER SIMILAR SIGNS WHERE LIMITED BREADTH AND STROKE WIDTHS ARE REQUIRED FOR DESIGN PURPOSES.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. SEE SHEETS 2 THROUGH 7 FOR CORRESPONDING METRIC UNITS.

# ENGLISH UNITS

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering								
SPACING CHARTS DIRECT APPLIED LETTERS & NUMERALS								
UPPER CASE SERIES B (ENGLISH)								
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007 ML _ C Roman	SHT. 17 OF 18							
	TC-8700C							



	15     0.6")     300 (12")     240 (9.6")       -6")     -6")     -6")     -6")       FOR DETAIL OF ARROW, SEE TYPE K       TYPE L     TYPE M
	WAY / EXPRESSWAY RAMP SIGNING
	WAT / EXERCISIVAT RAME STORTING
	<ul> <li>NOTES:</li> <li>1. ARROW TYPES A THROUGH J, N AND O ARE FOR USE ON FREEWAY AND EXPRESSWAY SIGNS.</li> <li>2. ARROW TYPES K, L AND M ARE FOR USE ON FREEWAY AND EXPRESSWAY RAMP SIGNS.</li> <li>3. ARROW TYPES P, Q AND R ARE FOR USE ON DESTINATION SIGNS WITH 100 mm (4") LEGEND.</li> <li>4. ARROW TYPES S, T AND U ARE FOR USE ON DESTINATION SIGNS WITH 150 mm (6") LEGEND.</li> <li>5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS (1).</li> <li>6. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.</li> <li>COMMONWEALTH OF PENNSYLVANIA</li> </ul>
	DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
	SPACING CHARTS DIRECT APPLIED
	ARROWS
CF	ECOMMENDED MAY 25, 2007 ALL C Power HIEF, TRAFFIC ENGINEERING AND PERATIONS DIVISION CHIEF HIGHWAY ENGINEER CHIEF HIGHWAY ENGINEER CHIEF HIGHWAY ENGINEER

## SIGNING PLANS

- 1. THE SIGNING PLANS SHOULD BE DRAWN TO A SCALE OF 1 .: 1000 (1" = 100'). A PLAN VIEW OF THE SIGNS AND SIGN SUPPORTS SHOULD BE DEPICTED AT THE APPROXIMATE LOCATIONS AND SMALL PICTORIAL DRAWINGS OF THE SIGN FACES SHOULD BE INCLUDED NEAR THE PLAN VIEW, ALONG WITH THE TYPE OF POST AND/OR SUPPORT. A NUMBER SHALL BE ASSIGNED TO EACH SIGN NOT INCLUDED IN THE DEPARTMENT'S PUBLICATION 236M AND CROSS-REFERENCED TO THE SIGN FABRICATION DETAILS.
- 2. ALL SIGNS SHALL BE DESIGNED IN ACCORDANCE TO THE LAYOUT DETAILS INCLUDED IN TRAFFIC STANDARD TC-8701D.
- 3. SIGN LIGHTING SHOULD BE INCLUDED FOR ALL OVERHEAD GUIDE SIGNS EXCEPT SIGNS ON TANGENT ROADWAYS WHERE MOTORISTS HAVE A CLEARVIEW OF THE SIGN FOR A MINIMUM OF 240 m (800') AND WHERE THE VERTICAL ALIGNMENT IS SUCH THAT LOW BEAM HEADLIGHTS WILL ILLUMINATE THE SIGNS.

## DESCRIPTION OF SIGNS

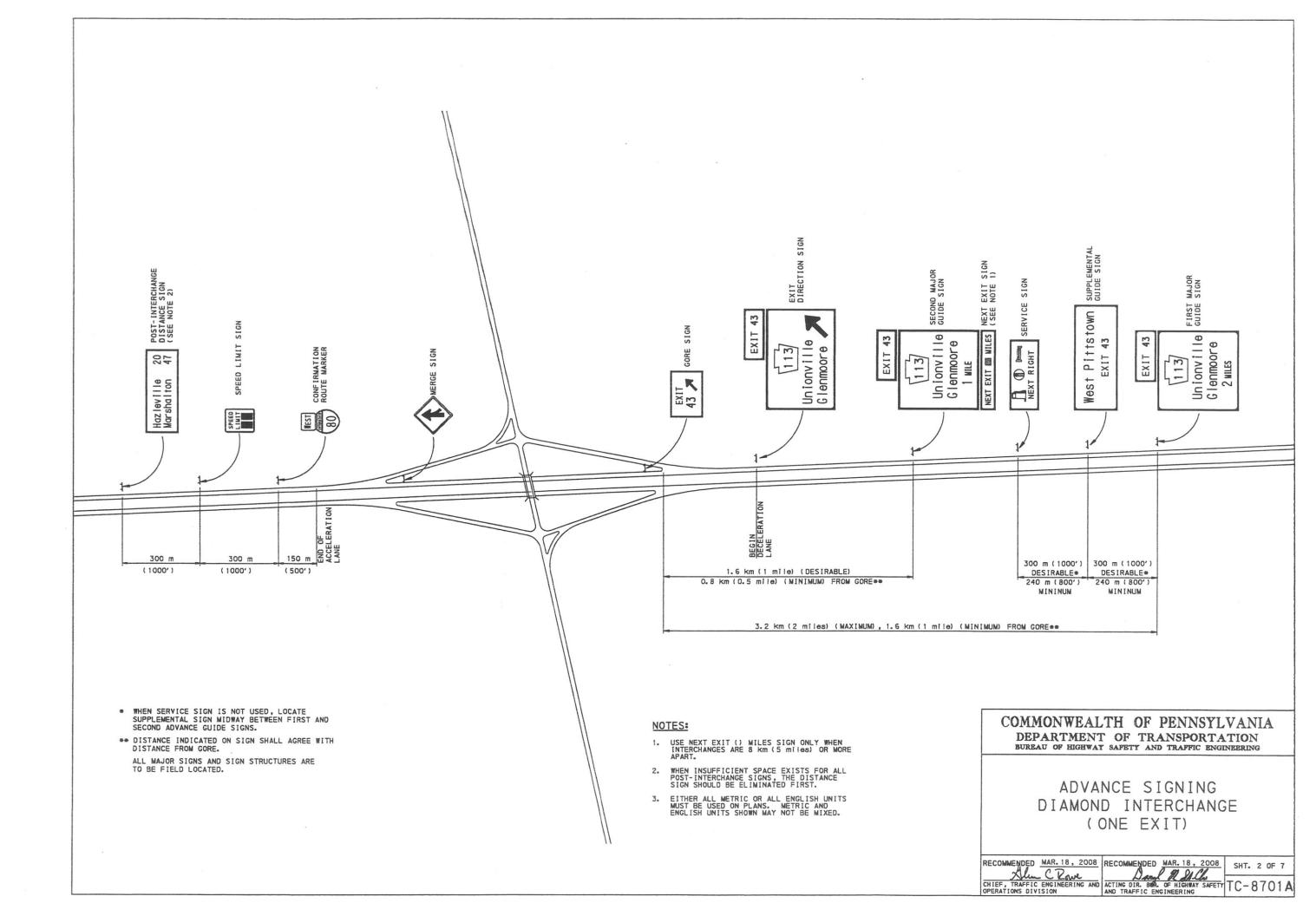
- 1. MAJOR GUIDE SIGNS PROVIDE MOTORISTS ADVANCE INFORMATION ON THE PRINCIPAL DESTINATIONS SERVED BY THE INTERCHANGE. TWO OR THREE MAJOR GUIDE SIGNS SHOULD BE USED, WITH TYPICAL PLACEMENT BEING 3.2 km (2 miles), 1.6 km (1 mile) AND 0.8 km (0.5 mile) IN ADVANCE OF THE EXIT. THE FOLLOWING INFORMATION SHOULD BE DISPLAYED ON MAJOR GUIDE SIGNS, BEGINNING FROM THE TOP OF THE SIGN.
- A. AN EXIT PANEL WHEN THE EXIT IS NUMBERED. THE PANEL SHOULD BE ON THE RIGHT SIDE FOR RIGHT-HAND EXITS, AND ON THE LEFT SIDE FOR LEFT-HAND EXITS.
- B. A SHIELD FOR EACH NUMBERED TRAFFIC ROUTE ASSIGNED TO THE CROSSING ROUTE OR WHICH IS VERY CLOSE TO THE INTERCHANGE. A CARDINAL DIRECTION SHOULD BE ASSOCIATED WITH FACH ROUTE WHERE TRAFFIC CAN ONLY GO IN ONE DIRECTION, AND THE WORD "TO" SHOULD BE USED ABOVE THE SHIELD OF ROUTES WHICH ARE CLOSE TO THE INTERCHANGE.
- C. THE NAME OF THE TWO NEAREST COMMUNITIES AS IDENTIFIED ON THE OFFICIAL TRANSPORTATION MAP, ONE TO THE LEFT AND ONE TO THE RIGHT, UNLESS ALTERNATE DESTINATIONS ARE APPROVED IN ACCORDANCE WITH DEPARTMENT POLICY. AT SINGLE EXIT INTERCHANGES, THE COMMUNITY NAME TO THE LEFT SHOULD BE ABOVE THE COMMUNITY NAME TO THE RIGHT; AT DOUBLE EXIT INTERCHANGES, THE TOP NAME SHOULD BE THE COMMUNITY SERVED BY THE FIRST EXIT. IN URBAN AREAS, THE STREET NAME SHOULD BE USED IN LIEU OF COMMUNITY NAMES.
- D. THE DISTANCE TO THE EXIT IN MILES AND/OR FRACTIONS OF MILES SHOULD BE SHOWN BELOW THE COMMUNITY NAMES OR THE STREET NAME. FRACTIONS SHOULD TYPICALLY BE SHOWN TO THE NEAREST 1/4 MILE. ALTHOUGH THE FRACTIONS "1/8" AND "3/8" ARE ACCEPTABLE. THE WORD "EXIT" OR "EXITS" SHOULD PRECEDE THE DISTANCE IF THE EXIT IS NOT NUMBERED.
- 2. A SUPPLEMENTAL GUIDE SIGN MAY INCLUDE ONE OR TWO DESTINATIONS, WHICH MAY BE A LARGE COMMUNITY NOT IDENTIFIED ON THE MAJOR GUIDE SIGNS OR ANY OTHER LARGE TRAFFIC GENERATOR IN ACCORDANCE WITH DEPARTMENT POLICY.
- 3. SERVICE SIGNS ARE USED TO IDENTIFY GAS, FOOD, LODGING, CAMPING, VISITOR INFORMATION, HOSPITAL, DIESEL, AND STATE POLICE. WITH THE EXCEPTION OF STATE POLICE, GENERAL MOTORIST SERVICE SIGNS INSTALLED ON NEW PANELS SHALL BE THE SYMBOL TYPE AS ILLUSTRATED IN TRAFFIC STANDARD TC-8701D.

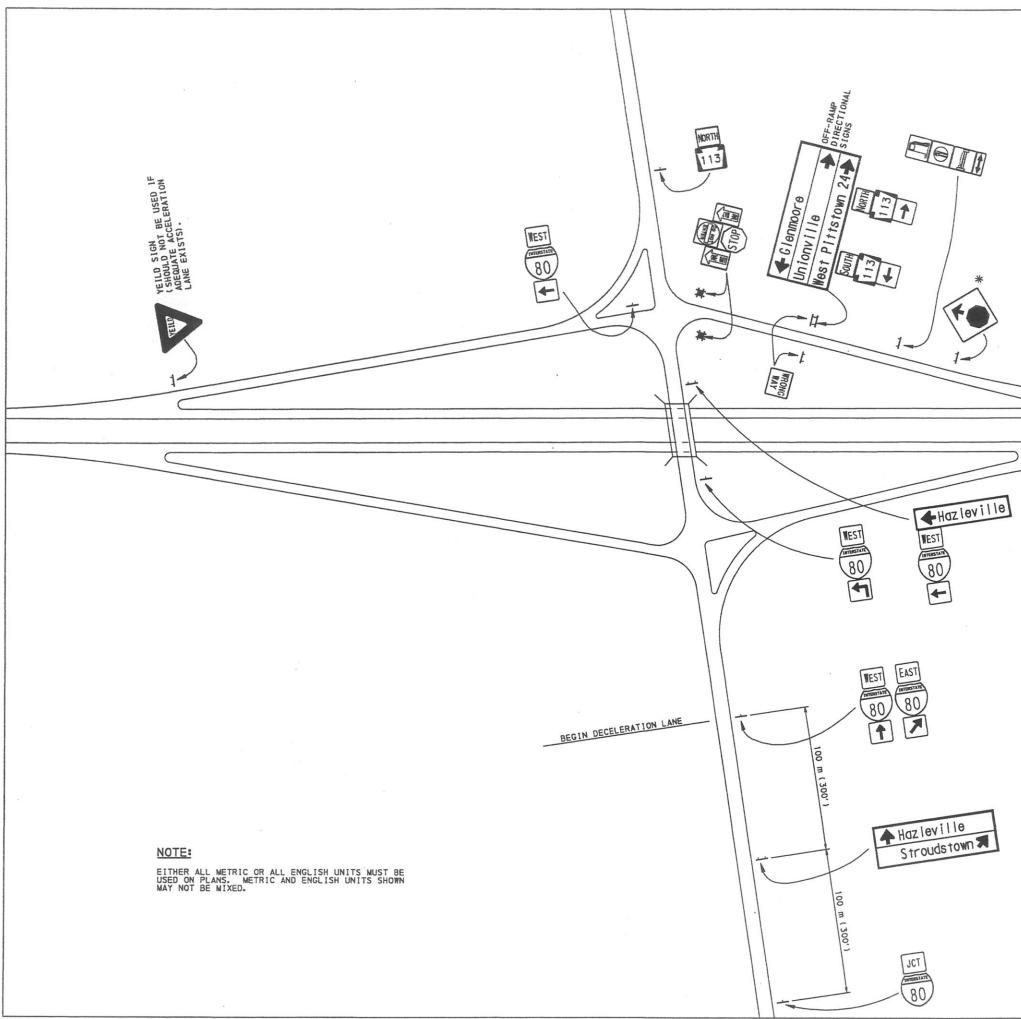
AS AN ALTERNATE TO GENERAL MOTORISTS SERVICE SIGNS, LOGO SIGNS MAY BE INSTALLED ON SELECTED INTERSTATE HIGHWAYS AND OTHER FREEWAYS IN ACCORDANCE WITH DEPARTMENT POLICY. WHEN LOGO SIGNS ARE INSTALLED, ALL GENERAL NOTORIST SERVICE SIGNS WILL BE REMOVED, UNLESS A SPECIFIC SERVICE IS NOT REPRESENTED BY A LOGO STON.

- 4. EXIT DIRECTION SIGNS SHOULD INCLUDE THE SAME TRAFFIC ROUTES AND DESTINATIONS AS INCLUDED ON THE MAJOR GUIDE SIGNS, AS APPROPRIATE, PLUS AN UPWARD-POINTING OR SLANTING ARROW. THE ALIGNMENT OF THE ARROW SHOULD APPROXIMATE THE ANGLE RELATED TO THE SHARPNESS OF THE TURN.
- 5. GORE SIGNS SHALL BE LOCATED IN THE AREA BETWEEN THE MAIN ROADWAY AND THE RAMP AT ALL EXITS. THE SIGNS SHALL HAVE THE WORD "EXIT" AND AN ARROW; IF THE EXIT IS NUMBERED, THE NUMBER OR NUMBER AND LETTER SHOULD ALSO BE INCLUDED.
- 6. CONFIRMATION ROUTE MARKERS SHOULD NOT BE USED BETWEEN CLOSELY SPACED INTERCHANGES OR WHEN A "PULL-THRU SIGN" FOLLOWS THE INTERCHANGE.

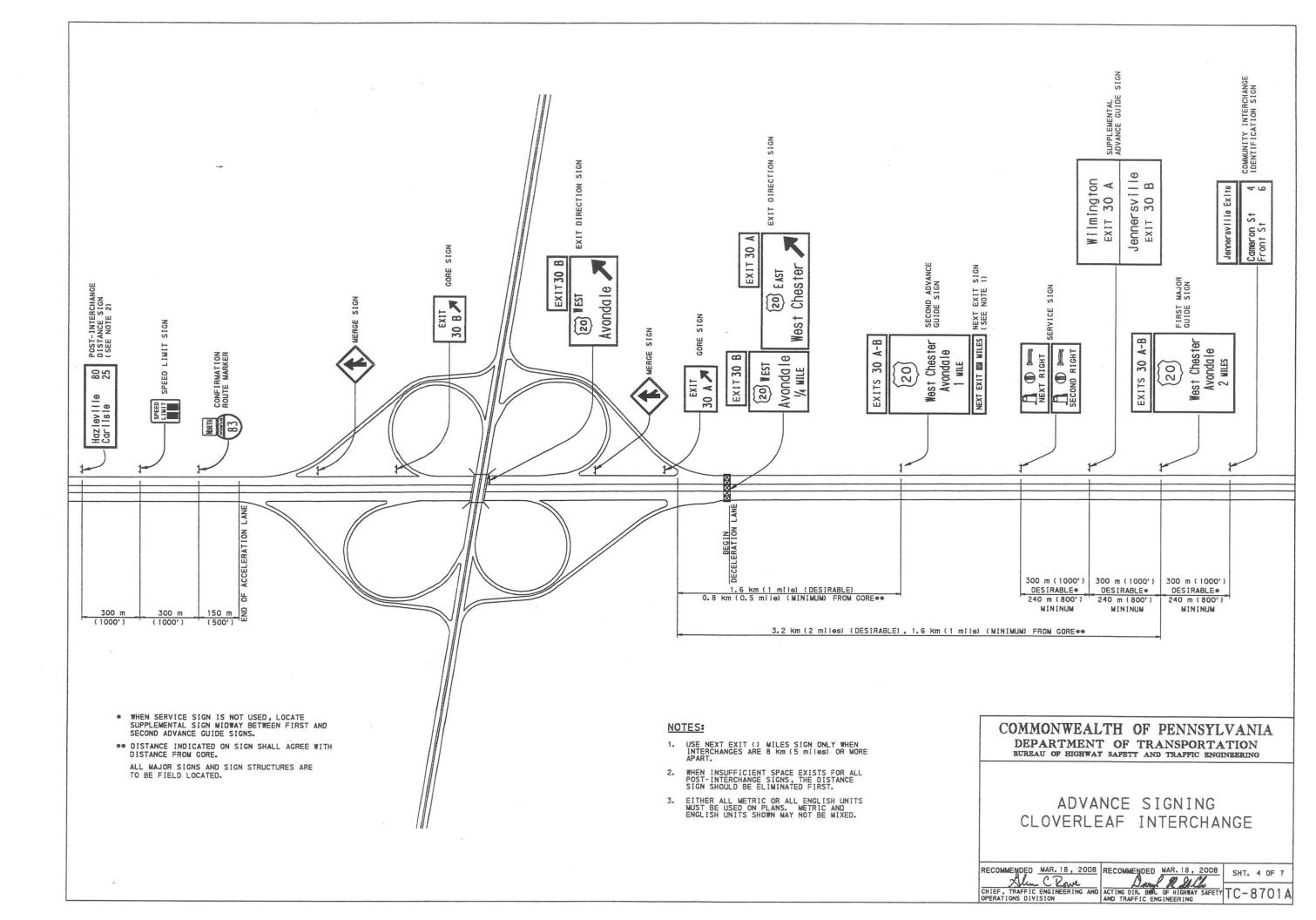
- 7. OFF-RAMP DIRECTIONAL SIGNS ARE USED ON ALL DIAMOND INTERCHANGE OFF-RAMPS, AND SHOULD INCLUDE ALL DESTINATIONS INCLUDED ON THE MAJOR AND SUPPLEMENTAL GUIDE SIGNS. THE DISTANCE IN THE NEAREST NUMBER OF WHOLE MILES TO THE DESTINATION SHOULD BE INCLUDED IF THE DESTINATION IS OVER 3.2 km (2 miles) AWAY, WHERE THE DISTANCE IS THE DISTANCE TO THE CENTER OF THE COMMUNITY OR ENTRANCE TO THE TRAFFIC GENERATOR.
- 8. POST-INTERCHANGE DISTANCE SIGNS SHOULD BE USED IN RURAL AREAS AND WHERE UNDUE REPETITION OF MESSAGES WILL NOT OCCUR. WHEN USED, IT SHOULD INCLUDE TWO OR THREE DESTINATION POINTS AND THE DISTANCES IN THE NEAREST NUMBER OF WHOLE MILES TO THOSE POINTS. THE FIRST DESTINATION SHOULD BE THE CLOSEST MEANINGFUL COMMUNITY WHICH IS NEAR AN INTERCHANGE; THE LAST DESTINATION IS THE NEAREST NATIONAL CONTROL CITY; AND AN INTERMEDIATE DESTINATION MAY BE INCLUDED BETWEEN THE TWO OTHER DESTINATIONS. CONSIDERATION MAY ALSO BE GIVEN TO INCLUDING MAJOR INTERSECTING HIGHWAY ROUTES AS DESTINATIONS USING THE ROUTE NUMBER (1.e., PA 30, US 30, etc.) EXCEPT PA TURNPIKE MAY BE USED. SHIELDS ARE NOT REQUIRED.
- 9. NEXT ( ) EXITS AREA SIGNS MAY BE USED IN ADVANCE OF MORE THAN THREE INTERCHANGES SERVING AN URBAN AREA OR HISTORICAL OR RECREATIONAL REGION. INTERCHANGE SEQUENCE SERIES SIGNS MAY BE USED PRIOR TO ALL BUT THE LAST INTERCHANCE.
- 10. INTERCHANGE SEQUENCE SIGNS ARE USED IN LARGE URBAN AREAS WHEN THE INTERCHANGES ARE CLOSELY SPACED IN ORDER TO IDENTIFY THE NEXT TWO OR THREE INTERCHANGES. WHEN USED, THE INTERCHANGE SEQUENCE SIGNS SHOULD NORMALLY BE INSTALLED IN THE MEDIAN OR ON AN OVERHEAD STRUCTURE. THEY FREQUENTLY CAN BE INSTALLED BACK-TO-BACK, ONE IN EACH DIRECTION.
- 11. COMMUNITY INTERCHANGES IDENTIFICATION SIGNS MAY BE USED FOR SUBURBAN OR RURAL COMMUNITIES SERVED BY TWO OR THREE INTERCHANGES. THE SIGN IS IDENTICAL TO THE INTERCHANGE SEQUENCE SIGN EXCEPT THE NAME OF THE COMMUNITY AND THE WORD "EXITS" IS SHOWN ON THE TOP OF THE SIGN. THE SIGN SHOULD BE LOCATED IN ADVANCE OF THE FIRST INTERCHANGE FOR THE COMMUNITY.
- 12. LANE ASSIGNMENT SIGNS MAY BE USED TO ASSIGN A PARTICULAR LANE FOR A GIVEN DESTINATION. A DOWN ARROW IS NORMALLY USED, BUT ALTERNATE MESSAGES SUCH AS "LEFT LANE", "RIGHT LANES", ETC. MAY BE USED.
- 13. PULL-THRU SIGNS MAY BE USED WHEN THE GEOMETRICS OF THE INTERCHANGE ARE COMPLEX, SUCH AS AT THE JUNCTION OF FREEWAYS AND WHEN IT IS NOT CLE THE DRIVER WHICH ROADWAY IS THE THROUGH ROADWAY. A NATIONAL OR REGIONAL CONTROL CITY SHOULD BE USED AS THE DESTINATION. DOWN ARROWS MAY BE USED WHEN THE ALIGNMENT AND NUMBER OF THROUGH LANES IS NOT READILY EVIDENT. (PULL-THRU SIGNS ARE SIMILAR TO LANE ASSIGNMENT SIGNS NEVER HAVE DISTANCES OR EXIT PANELS.)
- 14. EXIT ONLY PANELS SHOULD BE USED FOR ALL INTERCHANGE LANE DROPS AT WHICH THE THROUGH ROUTE IS CARRIED ON THE MAINLINE. EXIT ONLY PANELS SHOULD ALWAYS BE INSTALLED OVERHEAD, IN CONJUNCTION WITH LANE ASSIGNMENT SIGNS, EXIT DIRECTION SIGNS AND DIAGRAMMATIC SIGNS.
- 15. DIAGRAMMATIC SIGNS PROVIDE A GRAPHIC VIEW OF THE EXIT IN RELATIONSHIP TO THE MAIN HIGHWAY. THEY SHOULD BE USED FOR SPLITS HAVING OFF-RAMP MOVEMENTS TO THE LEFT, OPTIONAL LANE SPLITS, EXITS WITH ROUTE DISCONTINUITY, AND LEFT EXIT LANE DROPS: AND THEY ALSO MAY BE USED AT TWO-LANE EXITS WITH AN OPTIONAL LANE. DIAGRAMMATIC SIGNS SHOULD BE DESIGNED IN ACCORDANCE WITH THE STANDARD HIGHWAY SIGNS BOOK . AS PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- 16. EXIT PANELS SHALL BE USED ON ALL MAJOR GUIDE, EXIT DIRECTION, LANE ASSIGNMENT, AND DIAGRAMMATIC SIGNS WHEN EXIT NUMBERS HAVE BEEN ASSIGNED. THE PLURAL "EXITS" SHOULD BE USED IN ADVANCE OF INTERCHANGES WITH MORE THAN ONE EXIT, ALONG WITH THE RAMP DESIGNATIONS "A-B" OR "B-A DEPENDING UPON WHICH RAMP DESIGNATION IS SERVED FIRST. (WHEN THERE ARE TWO EXITS, THE FIRST ONE IN THE DIRECTION OF INCREASING DISTANCE MARKERS IS DESIGNATED AS "A", THE SECOND ONE AS "B".)
- 17. ADVISORY EXIT SPEED SIGNS (W13-2) AS DETAILED IN THE DEPARTMENT'S PUBLICATION 236M SHALL BE INSTALLED ALONGSIDE THE DECELERATION LANE, POSITIONED APPROXIMATELY AT THE MID-POINT.
- 18. NEXT EXIT ( ) MILES SIGN SHOULD BE USED BELOW THE ADVANCE GUIDE SIGN NEAREST THE INTERCHANGE (NORMALLY THE 1 MILE ADVANCE GUIDE SIGN) WHEN THE DISTANCE BETWEEN SUCCESSIVE RURAL INTERCHANGES IS MORE THAN 8 km (5 miles). THIS SIGN MAY BE FABRICATED AS AN INTEGRAL PART OF THE ADVANCE GUIDE SIGN OR MAY BE A SEPARATE SUPPLEMENTARY PANEL, WHEN A SEPARATE PANEL IS USED, ENSURE THAT IT IS INSTALLED ON THE POST ABOVE THE HINGE PLATE.

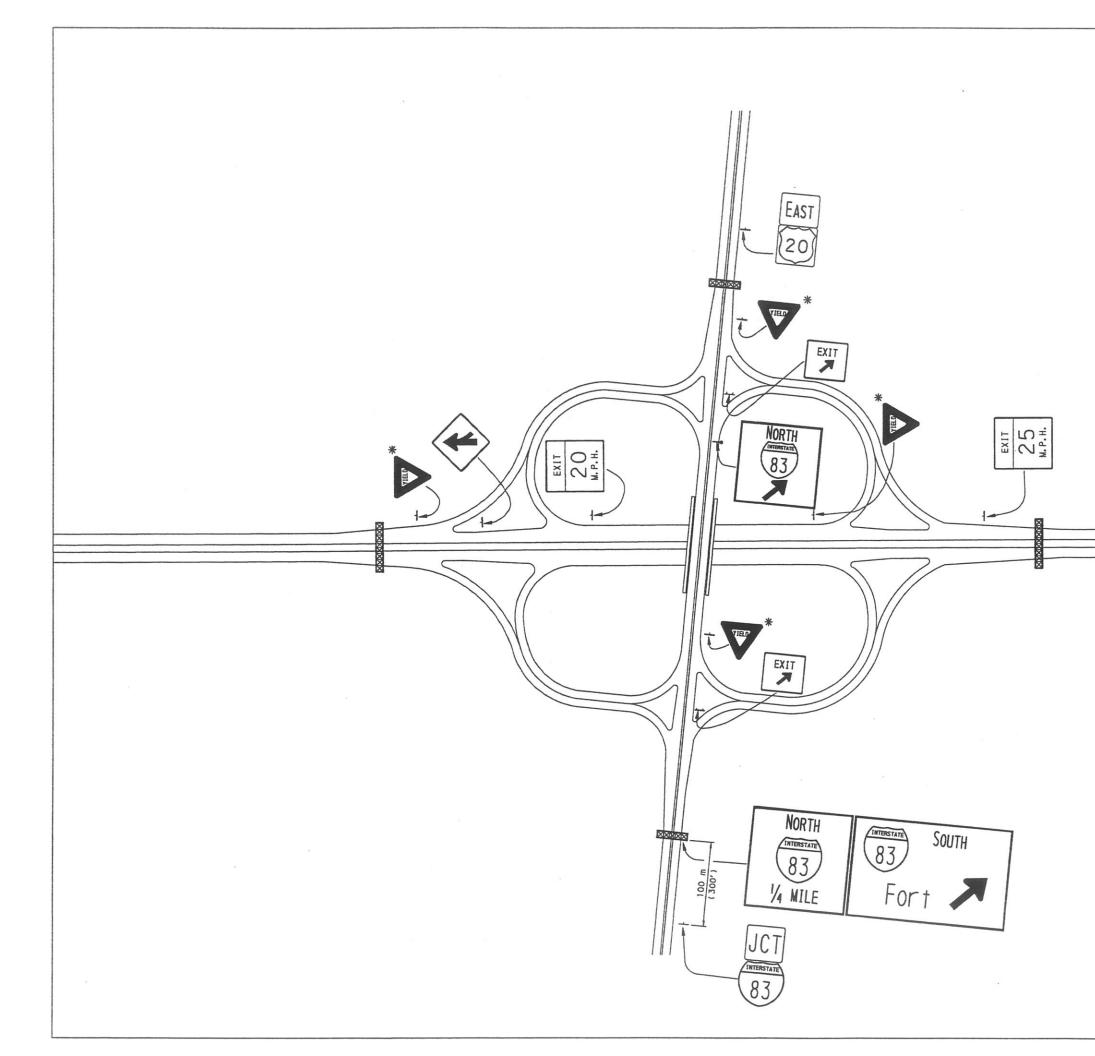
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	NOTE: EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.
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	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
	INTERCHANGE ADVANCE SIGNING GENERAL NOTES
	RECOMMENDED MAR. 18, 2008 CHIEF, TRAFFIC ENCINEERING AND OPERATIONS DIVISION RECOMMENDED MAR. 18, 2008 ACTING DIR. BR. OF HIGHMAY SAFETY ACTING DIR. BR. OF HIGHMAY SAFETY ACTING DIR. BR. OF HIGHMAY SAFETY TC-8701A





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EXIT 35 ADVISORY EXIT M. P. H. *
* IF NEEDED.
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
SIGNING DIAMOND INTERCHANGE
RECOMMENDED MAR. 18, 2008 RECOMMENDED MAR. 18, 2008 SHT. 3 OF 7 ALL CROWE CHIEF, TRAFFIC ENGINEERING AND ACTING DIR. BOR. OF HIGHTAY SAFETY OPERATIONS DIVISION



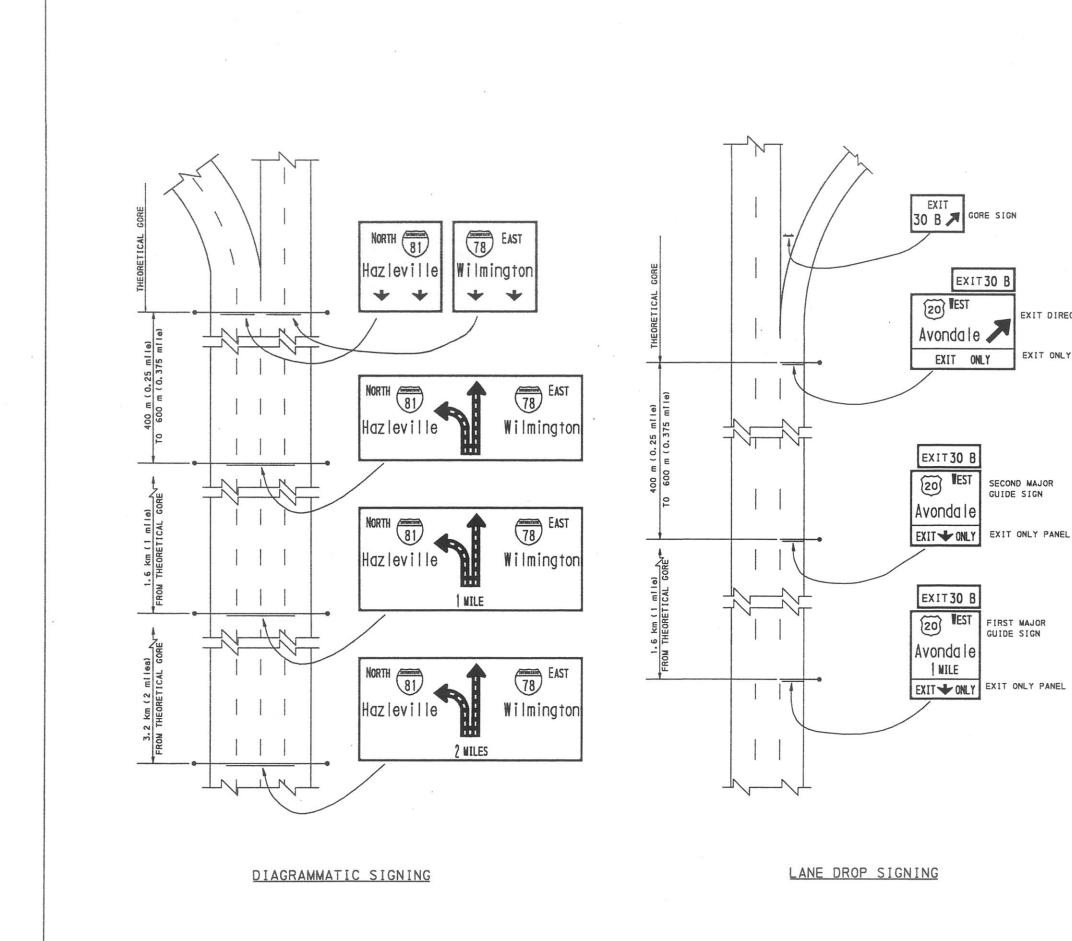


COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING								
SIGNING CLOVERLEAF INTERCHANGE								
RECOMMENDED MAR. 18, 2008 RECOMMENDED MAR. 18, 2008 SHT. 5 OF 7								

\* SHOULD NOT BE USED IF ADEQUATE ACCELERATION LANE EXISTS.

NOTE:

EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

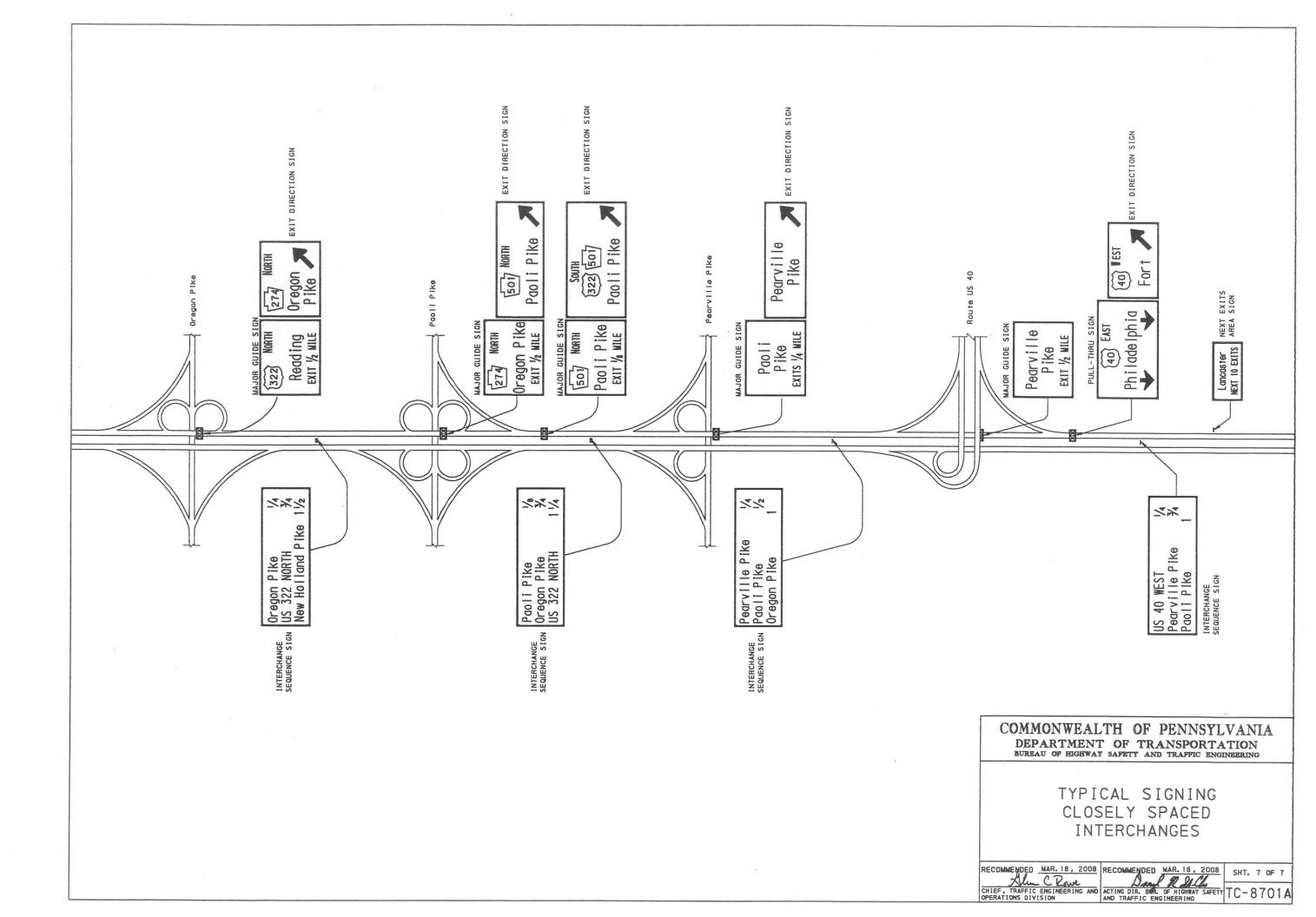


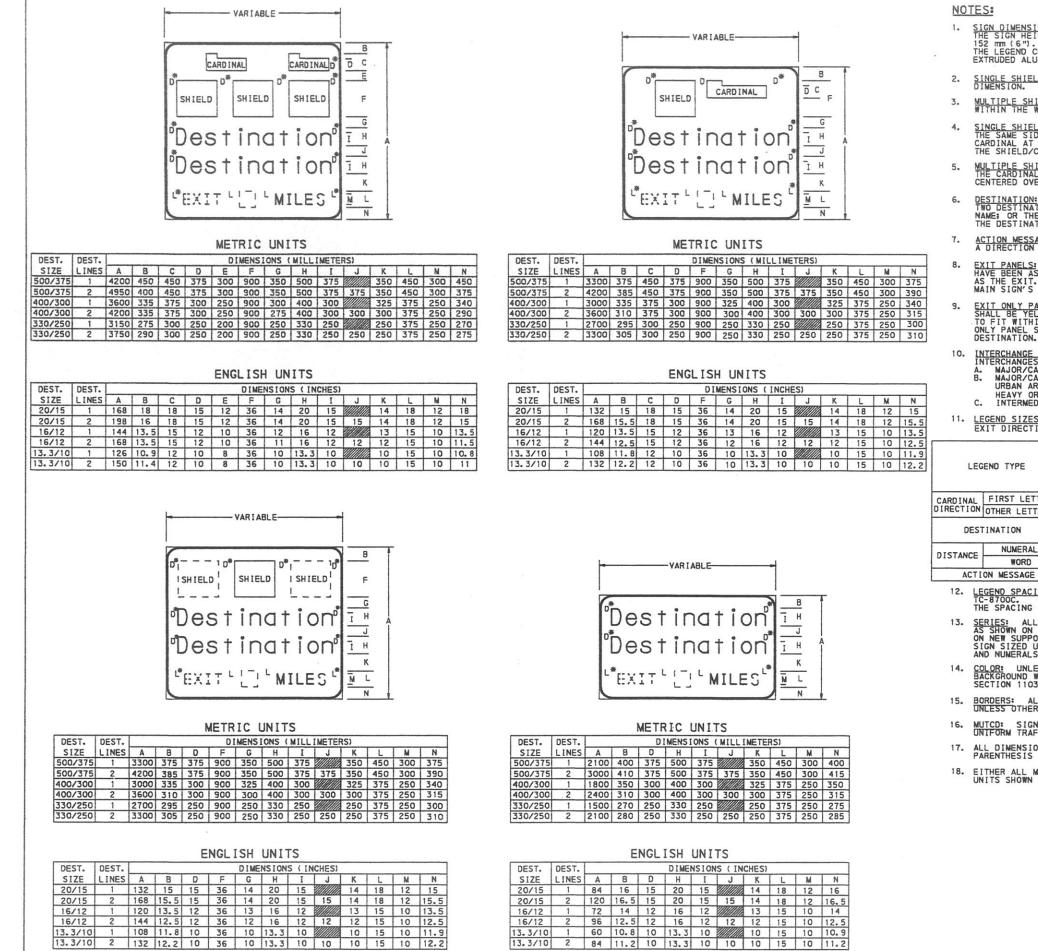
	TH OF PENNSYL							
	DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING							
6	SIGNING							
DIAGRAMMA	TIC & LANE I	DROP						
e)								
RECOMMENDED MAR. 18, 2008	RECOMMENDED MAR. 18, 2008	SHT. 6 OF 7						
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	ACTING DIR. BUR. OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING	TC-8701A						

NOTE: EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

EXIT ONLY PANEL

EXIT DIRECTION SIGN





\* INDICATES MINIMUM SPACING.

SIGN DIMENSIONS: WIDTHS AND HEIGHTS OF SIGNS SHALL BE IN MULTIPLES OF 150 mm (6"). THE SIGN HEIGHTS OF EXTRUDED ALUMINUM PANEL SIGNS ARE ACCEPTABLE IN MULTIPLES OF 152 mm (6"). THE INCREASED HEIGHTS OF SIGNS SHALL BE DISTRIBUTED EQUALLY BETWEEN THE LEGEND CLEARANCE DIMENSIONS AT THE TOP AND BOTTON OF THE SIGN. WHEN THE USE OF EXTRUDED ALUMINUM PANELS RESULTS IN A VERTICAL SIGN DIMENSION GREATER THAN REQUIRED.

SINGLE SHIELD: WHEN MOUNTED ALONE, SHIELD SHALL BE CENTERED WITHIN THE WIDTH DIMENSION.

MULTIPLE SHIELDS: WHEN MULTIPLE SHIELDS ARE USED, THEY SHALL BE EVENLY SPACED WITHIN THE WIDTH DIMENSION AND SHALL BE ON THE SAME VERTICAL ALIGNMENT.

SINGLE SHIELD WITH CARDINAL DIRECTION: THE CARDINAL DIRECTION SHALL BE MOUNTED ON THE SAME SIDE OF THE SHIELD AS THE EXIT, WITH THE TOP LINE OF THE SHIELD AND THE CARDINAL AT THE SAME ELEVATION. CARDINALS MAY BE CENTERED OVER THE SHIELD WHEN THE SHIELD/CARDINAL BECOMES THE CONTROLLING LINE FOR THE WIDTH DIMENSION.

MULTIPLE SHIELDS AND CARDINALS: WHEN MULTIPLE SHIELDS ARE USED WITH CARDINALS, THE CARDINALS SHALL BE CENTERED OVER THE APPROPRIATE SHIELDS. A CARDINAL MAY BE CENTERED OVER TWO SHIELDS WHEN APPLICABLE.

DESTINATION: THE DESTINATION MESSAGE SHOULD ORDINARILY CONSIST OF NOT MORE THAN TWO DESTINATIONS. A DESTINATION MAY BE A CITY, TOWN OR VILLAGE NAME; A STREET NAME; OR THE NAME OF A LARGE TRAFFIC GENERATOR. FOR SUPPLEMENTAL GUIDE SIGNS, THE DESTINATION MAY BE ANY APPROVED SUPPLEMENTAL DESTINATION.

ACTION MESSAGE: THE ACTION WESSAGE SHALL CONSIST OF EITHER A DISTANCE INDICATION, A DIRECTION INDICATION, OR A LANE ASSIGNMENT ARROW.

EXIT PANELS: EXIT PANELS SHALL BE USED ON MAJOR GUIDE SIGNS WHENEVER EXIT NUMBERS HAVE BEEN ASSIGNED. WHEN USED, THEY SHALL BE INSTALLED ON THE SAME SIDE OF THE SIGN AS THE EXIT. WHEN EXIT PANELS ARE USED, THE WORD "EXIT" SHALL NOT BE USED IN THE MAIN SIGN'S ACTION MESSAGE.

EXIT ONLY PANELS: EXIT ONLY PANELS SHALL BE USED ONLY FOR A LANE DROP. THE PANELS SHALL BE YELLOW REFLECTORIZED BACKGROUND WITH BLACK LEGEND, AND SHALL BE DESIGNED TO FIT WITHIN THE WHITE BORDER OF THE COMPLETE SIGN PANEL. THE TOP OF THE EXIT ONLY PANEL SHOULD BE A MININUM OF 260 mm (10.5") BELOW THE BOTTOM OF THE LOWEST DESTINATION. SEE SHEET 5 OF THIS STANDARD FOR DETAILS OF EXIT PANELS.

INTERCHANGE CLASSIFICATION: FOR FREEWAY AND EXPRESSWAY SIGNING PURPOSES, INTERCHANGES ARE CLASSIFIED AS MAJOR OR INTERMEDIATE AS DEFINED BELOW: A. MAJOR/CATEGORY A -- INTERCHANGES WITH OTHER FREEWAYS OR EXPRESSWAYS. B. MAJOR/CATEGORY B -- INTERCHANGES WITH HIGH-YOLUME MULTILANE HIGHWAYS, PRINCIPAL URBAN ARTERIALS AND MAJOR RURAL ROUTES WHERE THE INTERCHANGING TRAFFIC IS HEAVY OR INCLUDES MANY DRIVERS UNFAMILIAR WITH THE AREA. C. INTERMEDIATE -- MOST INTERCHANGES WITH URBAN OR RURAL ROUTES.

LEGEND SIZES: WITH RESPECT TO NOTE 10, LETTER AND NUMERAL SIZES FOR ADVANCE GUIDE, EXIT DIRECTION, AND OVERHEAD SIGNS ARE:

		FREEWAYS			EXPRESSW	AYS	
E	MA	JOR	INTER-	MA	JOR	INTER-	OVER- HEAD
-	CAT. A	CAT. B	MEDIATE	CAT. A	CAT. B	MEDIATE	SIGNS
LETTER	450 (18")	450 (18")	375 (15")	450 (18")	375 (15")	300 (12")	375 (15")
ETTERS	375 (15")	375 (15")	300 (12")	375 (15")	300 (12")	250 (10")	300 (12")
	500/375 ( 20"/15")	500/375 ( 20"/15")	400/300 (16"/12")	500/375 (20"/15")	400/300 (16 "/12 ")	330/250 (13.3"/10")	400/300 (16"/12")
RAL	450 (18")	450 (18")	375 (15")	450 (18")	375 (15")	300 (12")	375 (15")
RD	300 (12")	300 (12")	250 (10")	300 (12")	250 (10")	250 (10")	250 ( 10 ")
AGE	300 (12")	300 (12")	250 (10")	300 (12")	250 (10")	250 (10*)	250 (10")

12. LEGEND SPACING: LEGEND SPACING SHALL FOLLOW THE PROCEDURES AND CHARTS SHOWN IN TC-8700C. SEE SHEET 9 OF THIS STANDARD FOR DESIGN DETAILS OF SHIELDS AND FOR THE SPACING OF CARDINAL DIRECTIONS.

13. SERIES: ALL UPPER CASE/LOWER CASE LEGEND SHALL BE DETAILED WITH CLEARVIEW FONTS AS SHOWN ON TC-BTOOC SHEETS 8 THROUGH 11. CLEARVIEW 5W SHALL BE USED FOR SIGNS ON NEW SUPPORTS AND INSTALLATIONS WHERE EXISTING SUPPORTS WILL ACCOMODATE A SIGN SIZED USING CLEARVIEW 5W, OTHERWISE USE CLEARVIEW 5WR. ALL CAPITAL LEGEND AND NUMERALS SHALL BE SERIES E, UNLESS OTHERWISE NOTED.

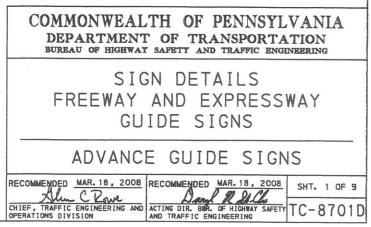
COLOR: UNLESS NOTED OTHERWISE, ALL SIGNS SHALL HAVE A GREEN REFLECTORIZED BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER OF THE TYPE SPECIFIED IN SECTION 1103 OF PUBLICATION 408.

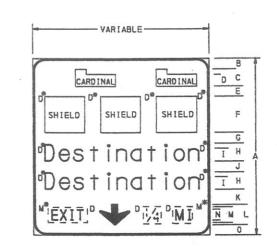
BORDERS: ALL SIGNS SHALL HAVE A 50 mm (2") BORDER WITH 300 mm (12") CORNER RADII, UNLESS OTHERWISE NOTED.

16. MUTCD: SIGN DETAILS SHALL COMPLY WITH THIS STANDARD DRAWING AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

17. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).

EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.



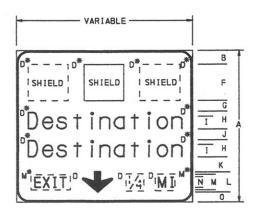


#### METRIC UNITS

DEST.	DEST.				1	DI	MENSI	ONS (	MILLI	METER	121					
SIZE	LINES	A	8	C	D	E	F	G	Н	I	J	K	L	M	N	0
500/375	1	4200	450	450	375	300	900	350	500	375		300	550	450	300	400
500/375	2	4950	400	450	375	300	900	350	500	375	375	300	550	450	300	325
400/300	1	3600	335	375	300	250	900	300	400	300		240	550	375	250	250
400/300	2	4200	310	375	300	250	900	275	400	300	300	215	550	375	250	225
330/250	1	3150	295	300	250	200	900	250	330	250		215	410	375	250	250
330/250	2	3750	305	300	250	200	900	250	330	250	250	225	410	375	250	250

#### ENGLISH UNITS

DEST.	DEST.						DIME	SION	S (INC	CHES)						
SIZE	LINES	A	B	С	D	E	F	G	H	I	J	K	L	M	N	0
20/15	1	168	18	18	15	12	36	14	20	15		12	22	18	12	16
20/15	2	198	16	18	15	12	36	14	20	15	15	12	22	18	12	13
16/12	1	144	13.4	15	12	10	36	12	16	12	<i>///////</i> /////////////////////////////	9.6	22	15	10	10
16/12	2	168	12.4	15	12	10	36	11	16	12	12	8.6	22	15	10	9
13.3/10	1	126	11.6	12	10	8	36	10	13.3	10		8.6	16.5	15	10	10
13.3/10	2	150	11.9	12	10	8	36	10	13.3	10	10	9	16.5	15	10	10

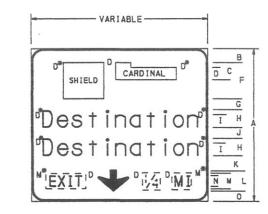


#### METRIC UNITS

DEST.	DEST.					DIME	NSION	S (MI	LLIME	TERS)				
SIZE	LINES	A	В	D	F	G	Н	I	J	K	٤	M	N	0
500/375	1	3300	375	375	900	350	500	375	//////	300	550	450	300	325
500/375	2	4200	385	375	900	350	500	375	375	300	550	450	300	340
400/300	1	3000	335	300	900	325	400	300		240	550	375	250	250
400/300	2	3600	300	300	900	300	400	300	300	215	550	375	250	235
330/250	1	2700	300	250	900	250	330	250		235	410	375	250	275
330/250	2	3300	310	250	900	250	330	250	250	235	410	375	250	285

#### ENGLISH UNITS

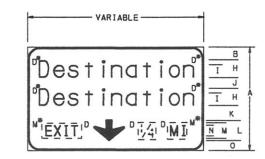
DEST.	DEST.					D	IMENSI	ONS	( INCH	ES)				
SIZE	LINES	Α	B	D	F	G	H	I	J	K	L	M	N	0
20/15	1	132	15	15	36	14	20	15		12	22	18	12	13
20/15	2	168	15.4	15	36	14	20	15	15	12	22	18	12	13.6
16/12	1	120	13.4	12	36	13	16	12		9.6	22	15	10	10
16/12	2	144	12	12	36	12	16	12	12	8.6	22	15	10	9.4
13.3/10	1	108	12	10	36	10	13.3	10		9.4	16.5	15	10	10.8
13.3/10	2	132	12.4	10	36	10	13.3	10	10	9.4	16.5	15	10	11.1



# METRIC UNITS DIMENSIONS (MILLIMETERS) SIZE LINES A B C D F G H I J K L M N O 500/375 1 3300 375 450 375 900 350 500 375 300 550 450 300 325 500/375 2 4200 385 450 375 900 350 500 375 300 550 450 300 340 400/300 1 3000 335 375 300 900 325 400 300 215 550 375 250 250 400/300 2 3600 300 375 300 900 300 400 300 215 550 375 250 235 330/250 1 2700 300 300 250 900 250 330 250 <t

#### ENGLISH UNITS

DEST.	DEST.						DIME	SIONS	5 ( IN	CHES)					
SIZE	LINES	Α	В	С	D	F	G	н	I	J	K	L	M	N	0
20/15	1	132	15	18	15	36	14	20	15	<i></i>	12	22	18	12	13
20/15	2	168	15.4	18	15	36	14	20	15	15	12	22	18	12	13.6
16/12	1	120	13.4	15	12	36	13	16	12		9.6	22	15	10	10
16/12	2	144	12	15	12	36	12	16	12	12	8.6	22	15	10	9.4
13.3/10	1	108	12	12	10	36	10	13.3	10	<i>[]]]]]</i> ]	9.4	16.5	15	10	10.8
13.3/10	2	132	12.4	12	10	36	10	13.3	10	10	9.4	16.5	15	10	11.1



#### METRIC UNITS

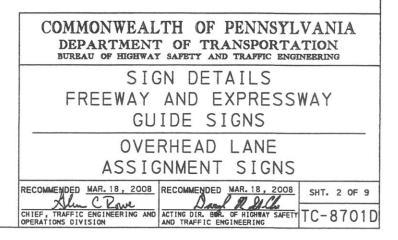
DEST.	DEST.				DIMEN	SION	S (MIL	LIME	TERS)			
SIZE	LINES	A	В	D	н	I	J	K	L	M	N	0
500/375	1	2100	400	375	500	375		300	550	450	300	350
500/375	2	3000	410	375	500	375	375	300	550	450	300	365
400/300	1	1800	350	300	400	300		240	550	375	250	260
400/300	2	2400	310	300	400	300	300	215	550	375	250	225
330/250	1	1500	280	250	330	250		235	410	375	250	245
330/250	2	2100	285	250	330	250	250	235	410	375	250	260

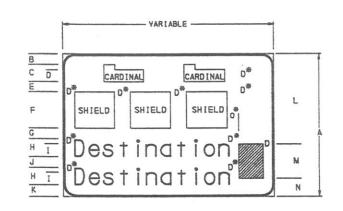
#### ENGLISH UNITS

DEST.	DEST.				DI	MENS	IONS (	INCH	ES)			
SIZE	LINES	A	8	D	H	I	J	K	L	M	N	0
20/15	1	84	16	15	20	15		12	22	18	12	14
20/15	2	120	16.4	15	20	15	15	12	22	18	12	14.6
16/12	1	72	14	12	16	12		9.6	22	15	10	10.4
16/12	2	96	12.4	12	16	12	12	8.6	22	15	10	9
13.3/10	1	60	11	10	13.3	10	///////	9.4	16.5	15	10	9.8
13.3/10	2	84	11.2	10	13.3	10	10	9.4	16.5	15	10	10.3

\* INDICATES MINIMUM SPACING.

- 1. SIGNS ON THIS SHEET ARE TO BE USED OVERHEAD FOR LANE ASSIGNMENTS.
- 2. REFER TO TC-8700C FOR ARROW DETAILS. THE TYPE C ARROW SHALL BE USED FOR THE 500 mm / 375 mm (20"/15") AND 400 mm / 300 mm (16"/12") LEGEND SIZES, AND THE TYPE D ARROW SHALL BE USED FOR THE 330 mm / 250 mm (13.3"/10") LEGEND SIZE.
- LANE ASSIGNMENT ARROW USAGE SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.



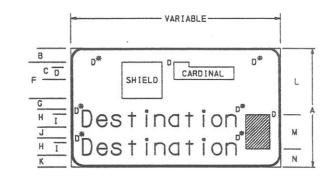


METRIC UNITS

DEST.	DEST.			10.0	542	DI	MENSI	ONS (	MILLI	METER	35)					
SIZE	LINES	A	В	C	D	E	F	G	H	I	J	K	L	M	N	0
500/375	1	3300	400	450	375	300	900	350	500	375		400	2085	815	400	
500/375	2	4200	415	450	375	300	900	350	500	375	375	410	2760	815	625	
400/300	1	2850	325	375	300	250	900	275	400	300		325	1710	815	325	200
400/300	2	3600	325	375	300	250	900	300	400	300	300	350	2310	815	475	//////
330/250	1	2550	285	300	250	200	900	250	330	250		285	1450	815	285	200
330/250	2	3150	295	300	250	200	900	250	330	250	250	295	1935	815	400	

ENGLISH UNITS

DEST.	DEST.						DIMEN	SION	S (INC	CHES)						
SIZE	LINES	A	B	С	D	E	F	G	H	I	J	K	L	M	N	0
20/15	1	132	16	18	15	12	36	14	20	15		16	83.4	32.6	16	
20/15	2	168	16.6	18	15	12	36	14	20	15	15	16.4	110.4	32.6	25	
16/12	1	114	13	15	12	10	36	11	16	12	<i>\\\\\\\\</i>	13	68.4	32.6	13	8
16/12	2	144	13	15	12	10	36	12	16	12	12	14	92.4	32.6	19	
3.3/10	1	102	11.3	12	10	8	36	10	13.3	10		11.4	58	32.6	11.4	8
3.3/10	2	126	11.7	12	10	8	36	10	13.3	10	10	11.7	77.4	32.6	16	

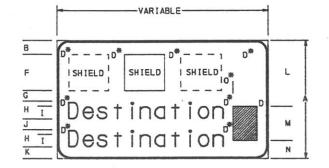


## METRIC UNITS

DEST.	DEST.					DIM	ENSI	ONS (	MILL	IMETE	RS)			
SIZE	LINES	A	В	C	D	F	G	н	I	J	K	L	M	N
500/375	1	2550	400	450	375	900	350	500	375		400	1335	815	400
500/375	2	3450	415	450	375	900	350	500	375	375	410	2010	815	625
400/300	1	2250	325	375	300	900	300	400	300	//////	325	1110	815	325
400/300	2	3000	350	375	300	900	300	400	300	300	350	1710	815	475
330/250	1	2100	300	300	250	900	275	330	250	//////	295	990	815	295
330/250	2	2700	310	300	250	900	275	330	250	250	305	1485	815	400

ENGLISH UNITS

DEST.	DEST.					1	DIMEN	SIONS	5 (IN	CHES	1			
SIZE	LINES	A	B	С	D	F	G	Н	I	J	K	L	M	N
20/15	1	102	16	18	15	36	14	20	15	//////	16	53.4	32.6	16
20/15	2	138	16.6	18	15	36	14	20	15	15	16.4	80.4	32.6	25
16/12	1	90	13	15	12	36	12	16	12	//////	13	44.4	32.6	13
16/12	2	120	14	15	12	36	12	16	12	12	14	68.4	32.6	19
13.3/10	1	84	12	12	10	36	11	13.3	10	///////	11.7	39.6	32.6	11.8
13.3/10	2	108	12.4	12	10	36	11	13.3	10	10	12	59.4	32.6	16

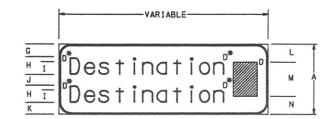


#### METRIC UNITS

DEST.	DEST.		DIMENSIONS (MILLIMETERS)											
SIZE	LINES	A	в	D	F	G	н	I	J	K	L	M	N	0
500/375	1	2550	400	375	900	350	500	375		400	1335	815	400	
500/375	2	3450	415	375	900	350	500	375	375	410	2010	815	625	
400/300	1	2250	325	300	900	300	400	300		325	1110	815	325	200
400/300	2	3000	350	300	900	300	400	300	300	350	1710	815	475	
330/250	1	2100	300	250	900	275	330	250		295	990	815	295	200
330/250	2	2700	310	250	900	275	330	250	250	305	1485	815	400	

## ENGLISH UNITS

DEST.	DEST.					D	IMENSI	ONS	INCHE	S)				
SIZE	LINES	Α	B	D	F	G	Н	I	J	K	L	M	N	0
20/15	1	102	16	15	36	14	20	15		16	53.4	32.6	16	
20/15	2	138	16.6	15	36	14	20	15	15	16.4	80.4	32.6	25	
16/12	1	90	13	12	36	12	16	12	///////////////////////////////////////	13	44.4	32.6	13	8
16/12	2	120	14	12	36	12	16	12	12	14	68.4	32.6	19	
13.3/10	1	84	12	10	36	11	13.3	10		11.7	39.6	32.6	11.8	8
13.3/10	2	108	12.4	10	36	11	13.3	10	10	12	59.4	32.6	16	



METRIC UNITS

DEST.	DEST.			S)	5)						
SIZE	LINES	A	D	G	н	I	J	K	L	M	N
500/375	1	1350	375	425	500	375	//////	425	270	815	265
500/375	2	2250	375	440	500	375	375	435	720	815	715
400/300	1	1350	300	475	400	300	///////	475	270	815	265
400/300	2	1800	300	350	400	300	300	350	495	815	490
330/250	1	1350	250	510	330	250	//////	510	270	815	265
330/250	2	1500	250	295	330	250	250	295	345	815	340

ENGLISH UNITS

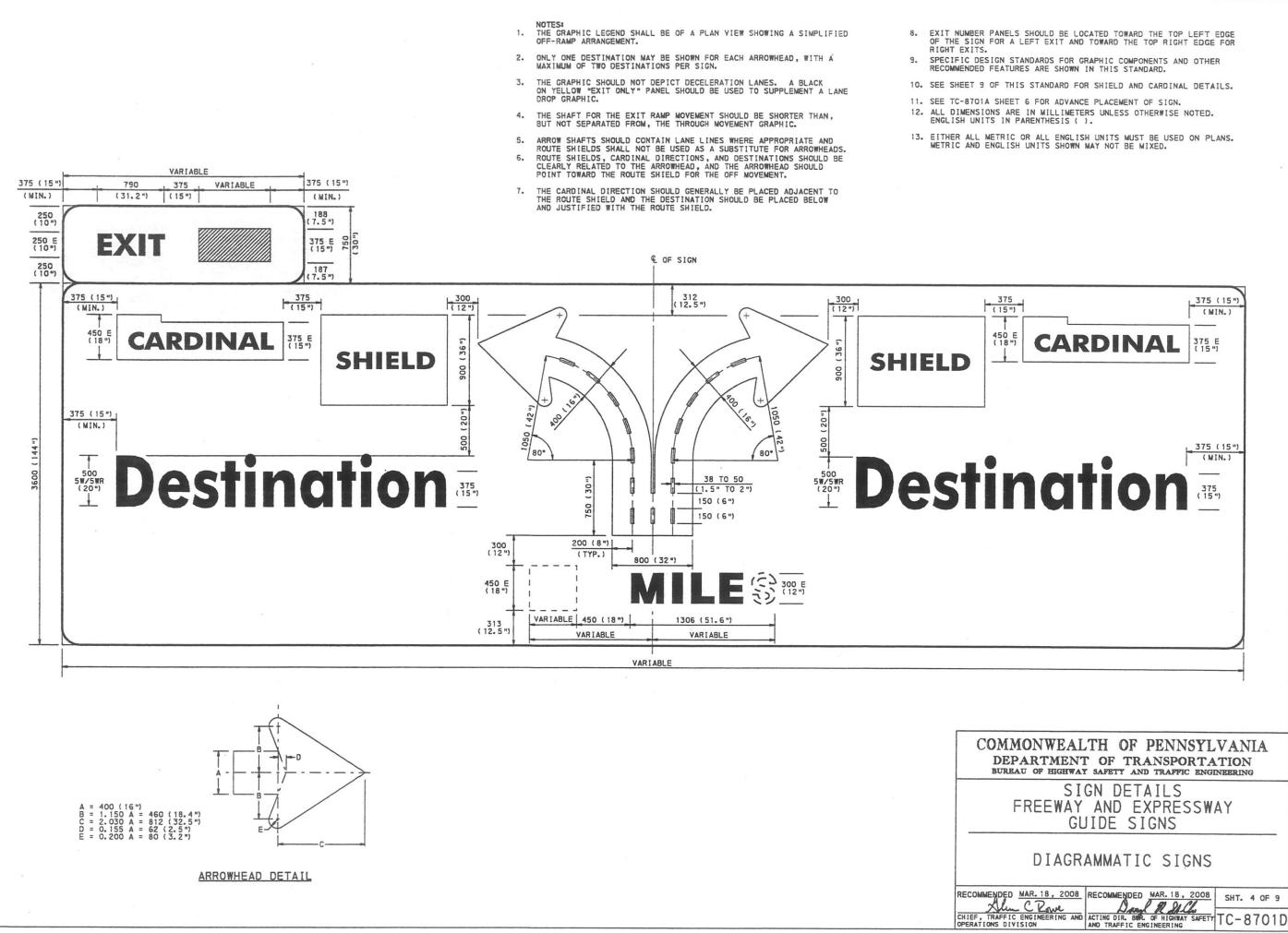
DEST.	DEST.				DIMEN	SIONS	S (INC	HES)			
SIZE	LINES	A	D	G	Н	I	J	K	L	M	N
20/15	1	54	15	17	20	15	//////	17	10.8	32.6	10.6
20/15	2	90	15	17.6	20	15	15	17.4	28.8	32.6	28.6
16/12	1	54	12	19	16	12	///////	19	10.8	32.6	10.6
16/12	2	72	12	14	16	12	12	14	19.8	32.6	19.6
13.3/10	1	54	10	20.4	13.3	10	///////	20.3	10.8	32.6	10.6
13.3/10	2	60	10	11.7	13.3	10	10	11.7	13.8	32.6	13.6

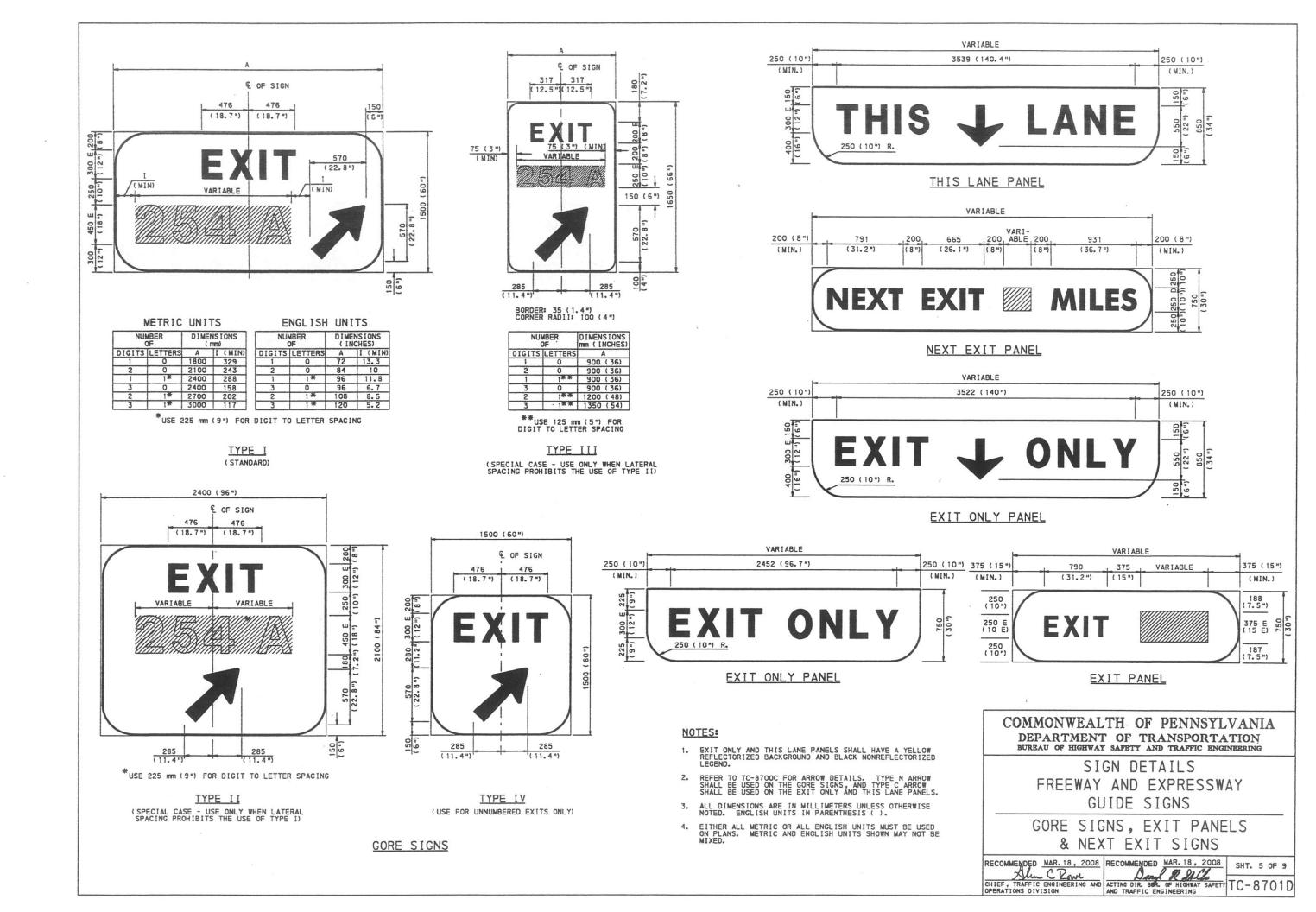
#### \* INDICATES MINIMUM SPACING.

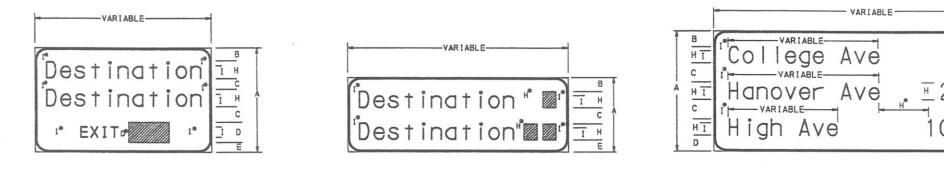
COMMONWEALTH OF PEN DEPARTMENT OF TRANSP BUREAU OF HIGHWAY SAFETY AND TRAFT	ORTATION
SIGN DETAIL FREEWAY AND EXPR GUIDE SIGNS	ESSWAY
EXIT DIRECTION	SIGNS
RECOMMENDED MAR. 18, 2008 CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	3, 2008 SHT. 3 OF 9

EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

REFER TO TC-8700C FOR ARROW DETAILS. TYPE F ARROW DIMENSIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES, BUT TYPE E THROUGH TYPE J ARROWS MAY ALSO BE USED FOR THE SIGNS SHOWN ON THIS SHEET.







	ME	TRIC	UN	ITS								
TYPE	DESTINATION	DIMENSIONS (MILLIMETERS)										
FACILITY	LINES	A	В	C	D	E	H	I				
EXPRESSWAY	1	1200	205	225	300	205	265	200				
	2	1800	235	250	300	235	265	200				
SOCONIX	1	1500	260	275	375	260	330	250				
FREEWAY	2	2100	260	275	375	255	330	250				

ENGLISH UNITS

TYPE	DESTINATION	DIMENSIONS (INCHES)										
FACILITY	LINES	A	B	C	D	E	H	I				
EXPRESSWAY	1	48	8.2	9	12	8.2	10.6	8				
EAFRESSWAT	2	72	9.4	10	12	9.4	10.6	8				
FOFFWAR	1	60	10.4	11	15	10.3	13.3	10				
FREEWAY	2	84	10.2	11	15	10.2	13.3	10				

## SINGLE EXIT SUPPLEMENTAL GUIDE SIGN

TYPE	DESTINATION	DIMENSIONS (MILLIMETERS)								
FACILITY	LINES	A	B	C	E	н	I			
EXPRESSWAY	2	1200	275	250	275	200	150			
	3	1500	250	200	250	200	150			
	2	1350	275	270	275	265	200			
FREEWAY	3	1800	245	255	250	265	200			

	ENGL	121	DIAT	13						
TYPE	DESTINATION	DIMENSIONS (INCHES)								
FACILITY	LINES	A	B	C	E	H	I			
EXPRESSWAY	2	48	11	10	11	8	6			
	3	60	10	8	10	8	6			
COFFWAR	2	54	111	10.8	11	10.6	8			
FREEWAY	3	72	10.1	10	10.1	10.6	8			

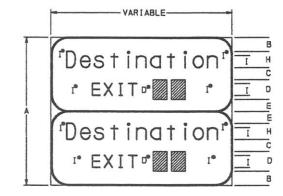
## POST INTERCHANGE DISTANCE SIGN

METRIC UNITS DIMENSIONS (MILLIMETERS) TYPE DESTINATION 
 A
 B
 C
 D
 E
 F
 G
 H
 I
 J

 1350
 285
 250
 285
 270
 300
 265
 200
 230
 EXPRESSWAY 1800 250 250 255 235 300 215 265 200 230 1500 285 275 280 265 375 330 250 250 FREEWAY 2100 280 275 280 260 375 230 330 250 250 ENGLISH UNITS

					0111		
TYPE	DESTINATION				DIME	NSIONS	(IN
FACILITY	LINES	Α	B	С	D	E	F
EXPRESSWAY	2	54	11.4	10	11.4	10.7	12
EAFRESSWAT	3	72	10.1	10	10.1	9.4	12
FOFFWAY	2	60	11.2	11	11.2	10.4	15
FREEWAY	3	84	11	11	11.1	10.2	15

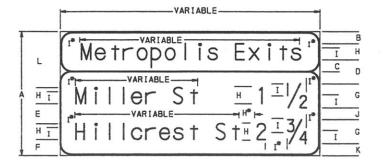
## INTERCHANGE SEQUENCE SIGN



	M	ETRI	C UI	NITS			
TYPE		DIME	NSION	S (MIL	LINET	ERS)	
FACILITY	A	8	C	D	E	H	I
EXPRESSWAY	2400	220	200	300	215	265	200
FREEWAY	3000	275	250	375	270	330	250

	E	NGLIS	SH L	INIT	S								
TYPE		DIMENSIONS (INCHES)											
FACILITY	A	8.	С	D	E	H	I						
EXPRESSWAY	96	8.8	8	12	8.6	10.6	8						
FREEWAY	120	10.9	10	15	10.8	13.3	10						

## DOUBLE EXIT SUPPLEMENTAL GUIDE SIGN



## METRIC UNITS

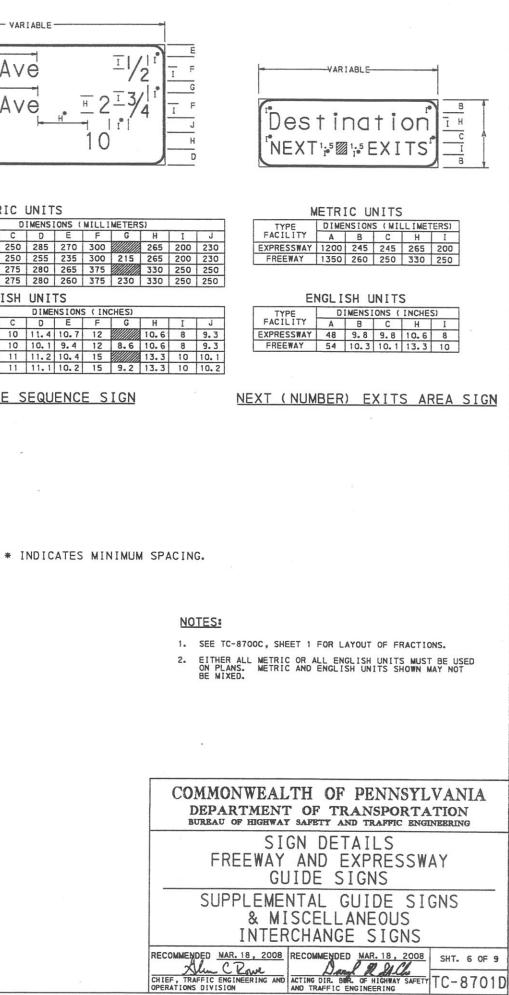
TYPE	DESTINATION												
FACILITY	LINES	A	В	C	D	E	F	G	н	I	J	K	L
EXPRESSWAY	2	1950	255	205	400	235	250	300	265	200	200	230	935
EXPRESSION	3	2400	255	205	400	210	250	300	265	200	175	230	935
FOFFWAY	2	2400	310	260	500	295	285	375	330	250	250	260	1160
FREEWAY	EWAY 3 3000 28	285	260	500	295	285	375	330	250	250	260	1135	

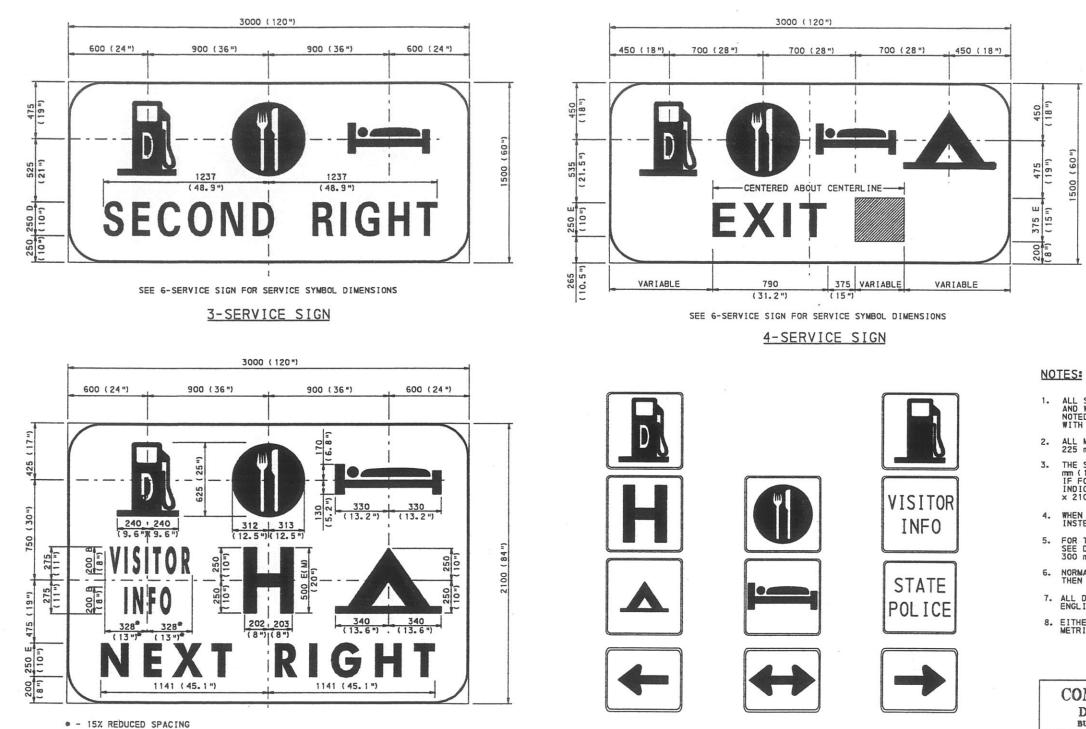
## ENGLISH UNITS DIMENSIONS (INCHES)

FACILITY	LINES	A	В	C	D	E	F	G	н	I	J	K	L
EXPRESSWAY	2	78	10.2	8.2	16	9.4	10	12	10.6	8	8	9.2	37.4
EAFRESSWAT	3	96	10.2	8.2	16	8.4	10	12	10.6	8	7	9.2	37.4
COCCWAY	2	96	12.3	10.4	20	11.7	11.3	15	13.3	10	10	10.4	46.4
FREEWAY	3	120	11.3	10.4	20	11.7	11.3	15	13.3	10	10	10.4	45.4

## COMMUNITY INTERCHANGES IDENTIFICATION SIGN

TYPE DESTINATION



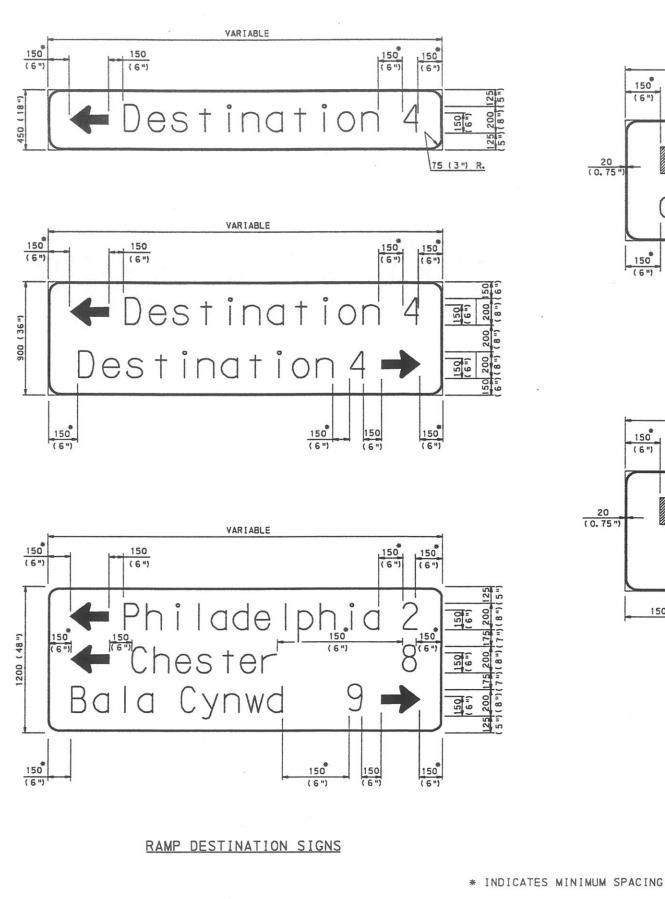


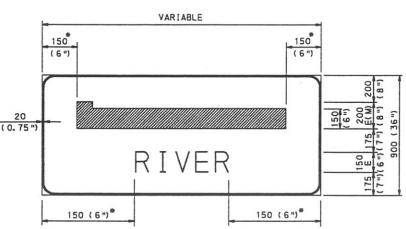
RAMP SIGNING

6-SERVICE SIGN

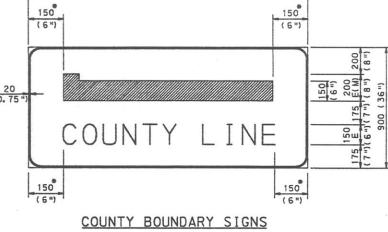
- ALL SERVICE SIGNS SHALL HAVE A BLUE REFLECTORIZED BACKGROUND AND WHITE REFLECTORIZED SYMBOLS, LEGENDS, AND BORDERS. UNLESS NOTED OTHERWISE, THE TYPE OF REFLECTIVE SHEETING SHALL COMPLY WITH DEPARTMENT PUBLICATION 408.
- ALL MAINLINE SERVICE SIGNS SHALL HAVE A 50 mm (2") BORDER WITH 225 mm (9") CORNER RADII.
- 3. THE STANDARD WAINLINE SERVICE SIGN SHALL USE A 3000 mm x 1500 mm (120" x 60") PANEL AND SHALL USE THE THREE-SYMBOL LAYOUT. IF FOUR SYMBOLS ARE REQUIRED, THE SYMBOLS SHALL BE AS INDICATED. IF WORE THAN FOUR SYMBOLS ARE REQUIRED, A 3000 mm x 2100 mm (120" x 84") PANEL SHALL BE USED.
- 4. WHEN THE EXIT IS NUMBERED, THE EXIT NUMBER SHOULD BE USED INSTEAD OF "NEXT RIGHT" OR "SECOND RIGHT".
- FOR THE LAYOUT OF RAMP SIGNING [600 mm × 600 mm (24" × 24")], SEE D9 SERIES IN DEPARTMENT PUBLICATION 236M. USE 600 mm × 300 mm (24" × 12") SERVICES ARROW (D9-2-2) WITH RAMP SIGNING.
- NORMAL SEQUENCE SHOULD BE GAS (DIESEL), FOOD, LODGING, AND THEN OTHERS.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
SIGN DETAILS FREEWAY AND EXPRESSWAY
GUIDE SIGNS
GENERAL MOTORIST SERVICE SIGNS
RECOMMENDED MAR. 18, 2008 C Route C Route RECOMMENDED MAR. 18, 2008 SHT. 7 OF 9
CHIEF, TRAFFIC ENGINEERING AND ACTING DIR. BUR. OF HIGHWAY SAFETY TC-8701D





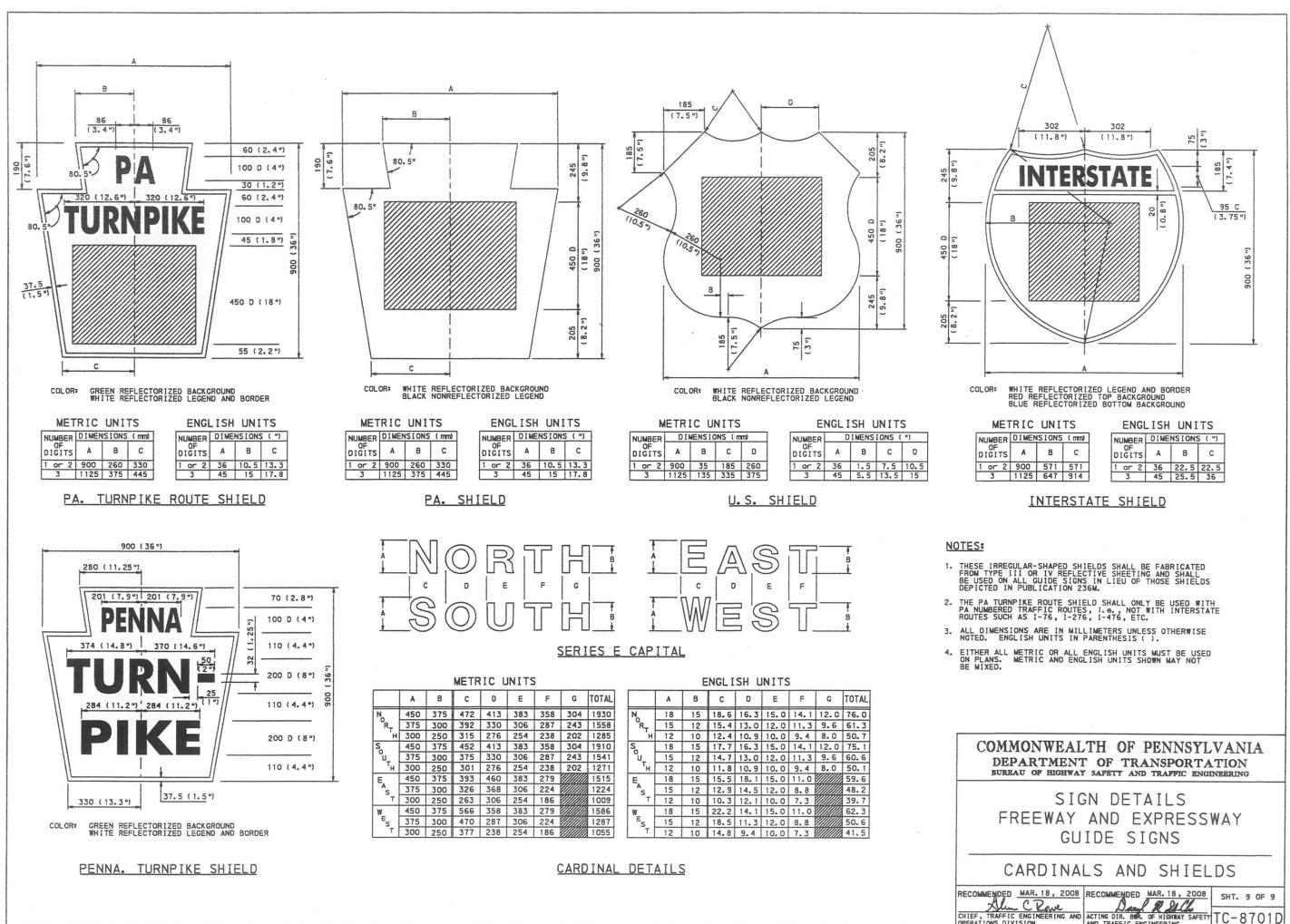
WATERWAY SIGNS



VARIABLE

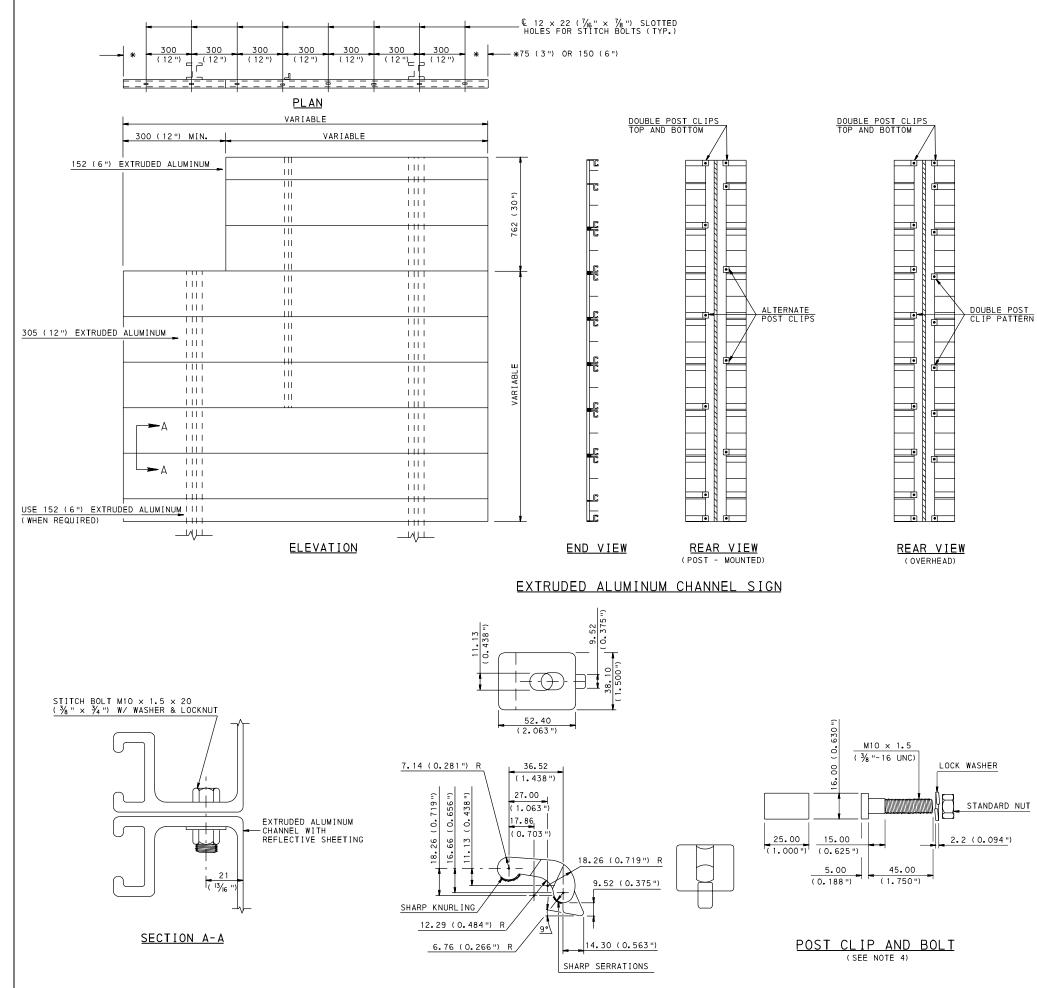
- 1. ALL SIGNS ON THIS SHEET SHALL HAVE A 30 mm (1.25") BORDER WITH 150 mm (6") CORNER RADII, UNLESS OTHERWISE NOTED.
- REFER TO TC-8700C FOR ARROW DETAILS. TYPE K, TYPE L OR TYPE N ARROWS SHALL BE USED FOR THE RAMP DESTINATION SIGNS.
- BOUNDARY AND WATERWAY SIGNS SHALL HAVE WHITE REFLECTORIZED BACKGROUND AND BLUE REFLECTORIZED LEGEND AND BORDER. UNLESS NOTED OTHERWISE, THE TYPE OF REFLECTIVE SHEETING SHALL COMPLY WITH DEPARTMENT PUBLICATION 408.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED. 5.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION. BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
CICN DETAILS
SIGN DETAILS
FREEWAY AND EXPRESSWAY
GUIDE SIGNS
GUIDE SIGNS
RAMP DESTINATION
AND BOUNDARY SIGNS
RECOMMENDED MAR. 18, 2008 RECOMMENDED MAR. 18, 2008 SHT. 8 OF 9
CHIEF, TRAFFIC ENGINEERING AND ACTING DIR. BUR. OF HIGHNAY SAFETY TC-8701D



OPERATIONS DIVISION

AND TRAFFIC ENGINEERING



## NOTES:

6.

- 1. IF A 152 (6") SECTION IS REQUIRED, IT SHOULD BE PLACED AT THE TOP AND/OR THE BOTTOM OF THE SIGN.
- STITCH BOLTS TO BE USED AT 300 (12") CENTERS THROUGHOUT THE SIGN PANEL.
- A DOUBLE POST CLIP PATTERN IS REQUIRED FOR ALL OVERHEAD SIGNS.

A LOCK NUT AND M10 ( <sup>3</sup>/<sub>8</sub> ") WASHER MAY BE USED IN LIEU OF LOCK WASHER AND STANDARD NUT FOR POST CLIPS.

7. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING

EXTRUDED ALUMINUM CHANNEL SIGN

m. l. latel

SHT. 1 OF 2

TC-8701E

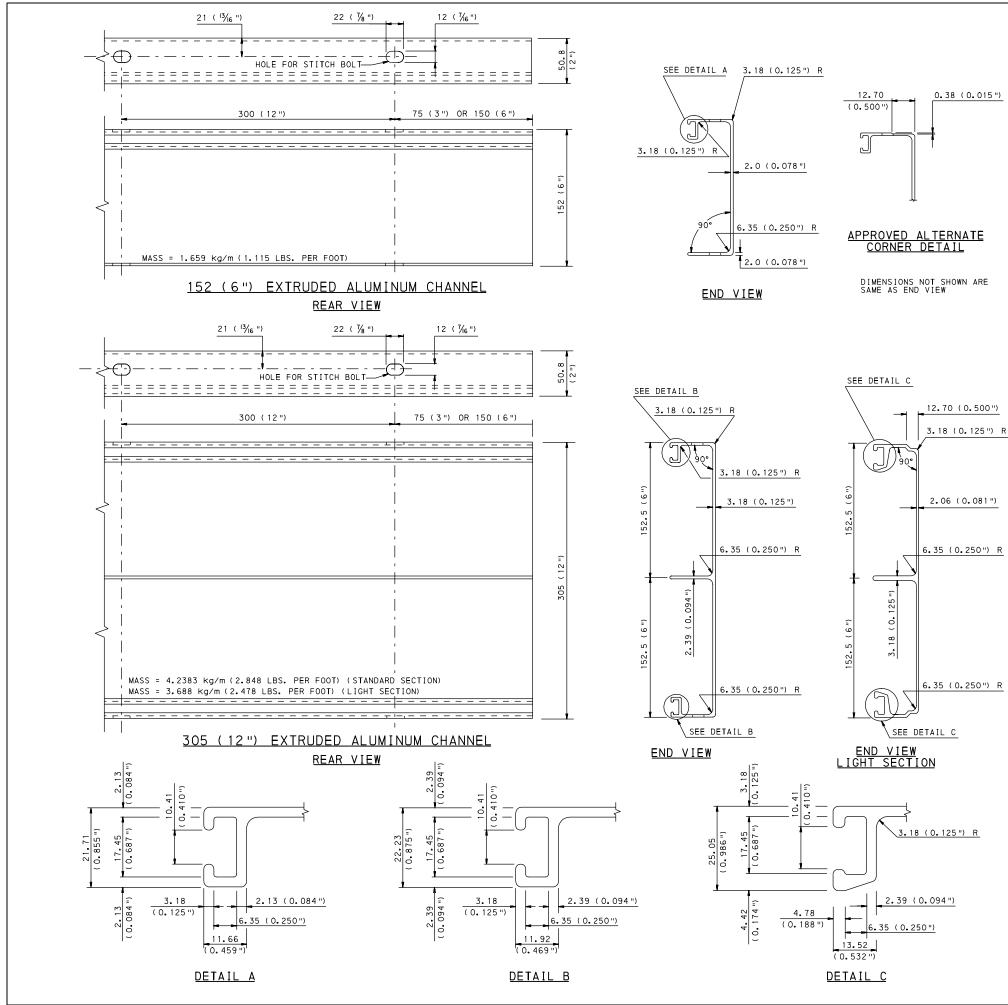
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007

CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER OPERATIONS DIVISION

Alen C Rowe

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).

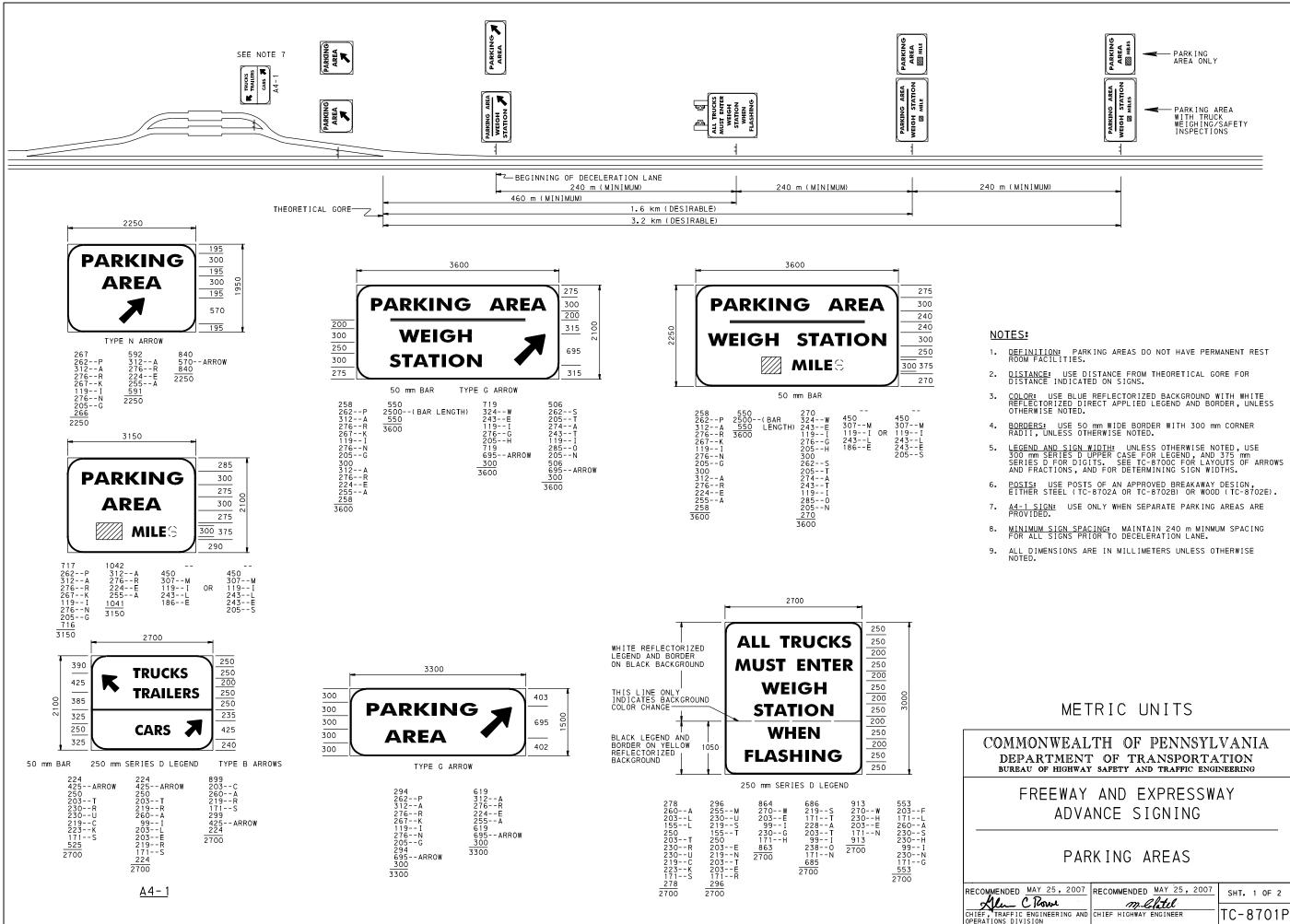
5. SEE TC-8702E FOR INSTALLATION ON WOOD POSTS.



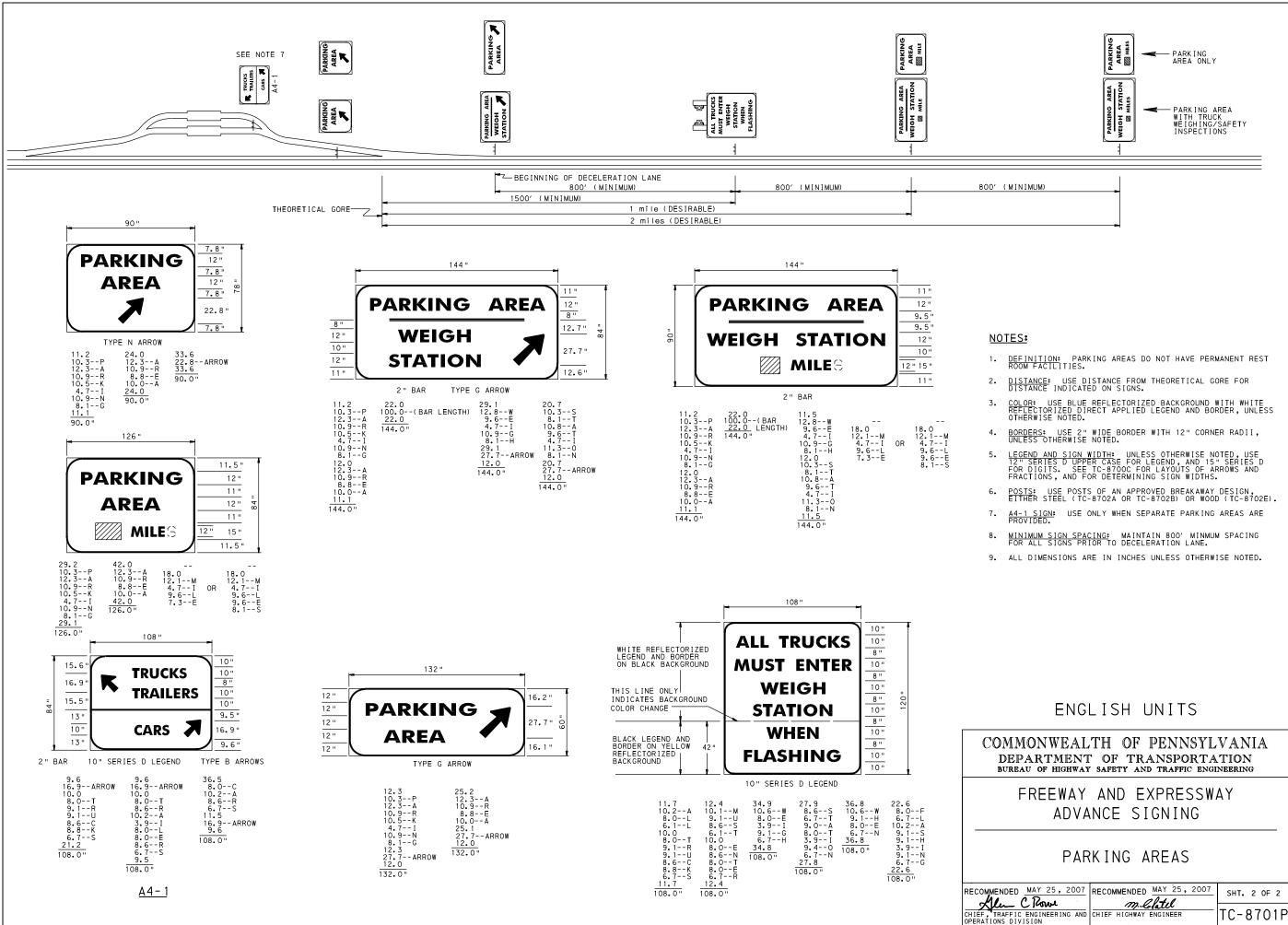
DEPARTMENT OF TRANSPORTA bureau of highway safety and traffic engin	
EXTRUDED ALUMINUM CHANNEL	_ SIGN
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007	SHT. 2 OF 2
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	TC-8701E

COMMONWEALTH OF PENNSYLVANIA

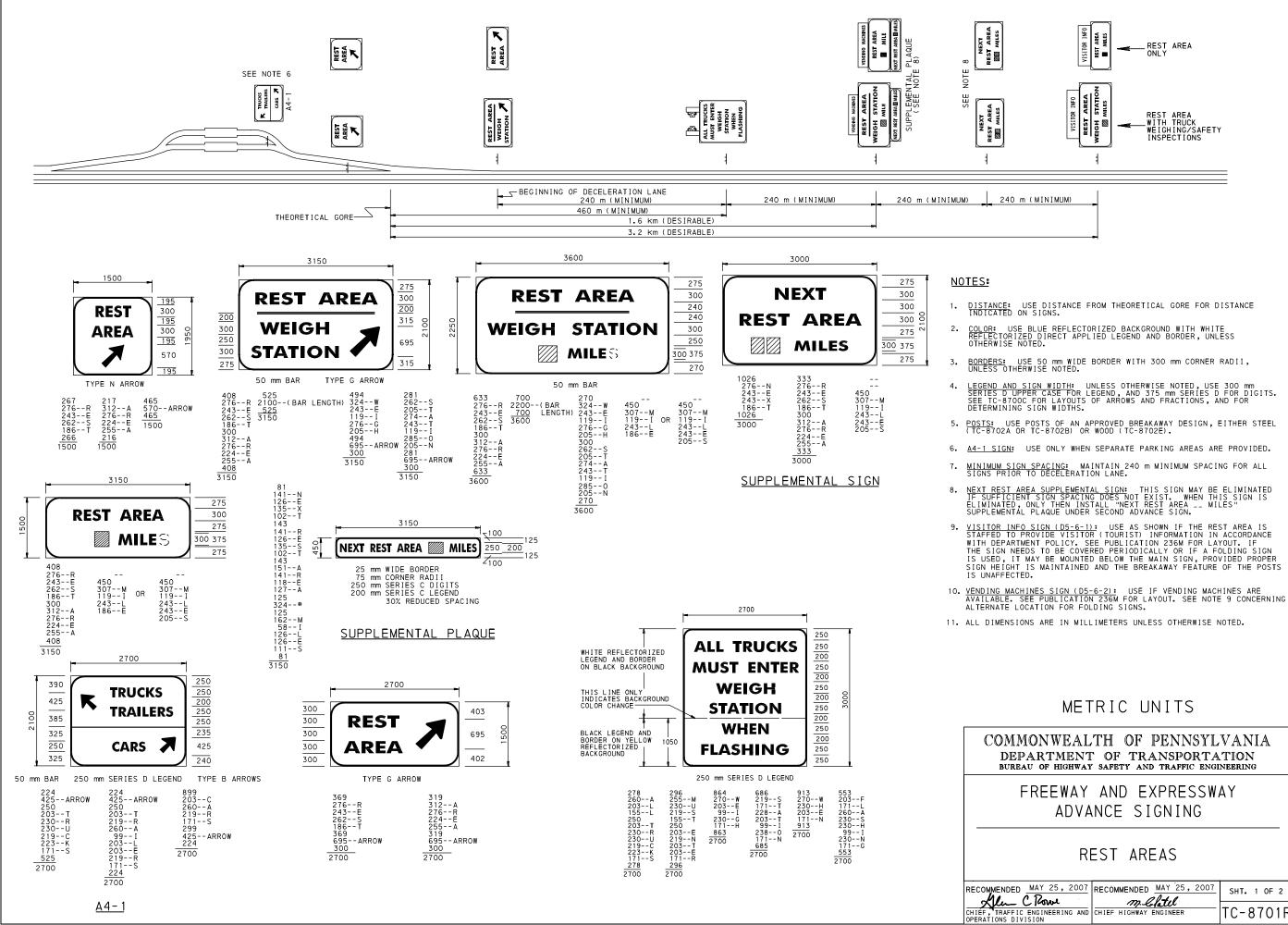
- 4. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.
- 3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- FOR DETAILS A, B, AND C USE 1.6 (0.062") R ON ALL OUTSIDE CORNERS AND 0.8 (0.031") R ON ALL INSIDE CORNERS UNLESS OTHERWISE SPECIFIED.
- 1. USE EITHER THE STANDARD SECTION (28008) OR THE LIGHT SECTION (401771).



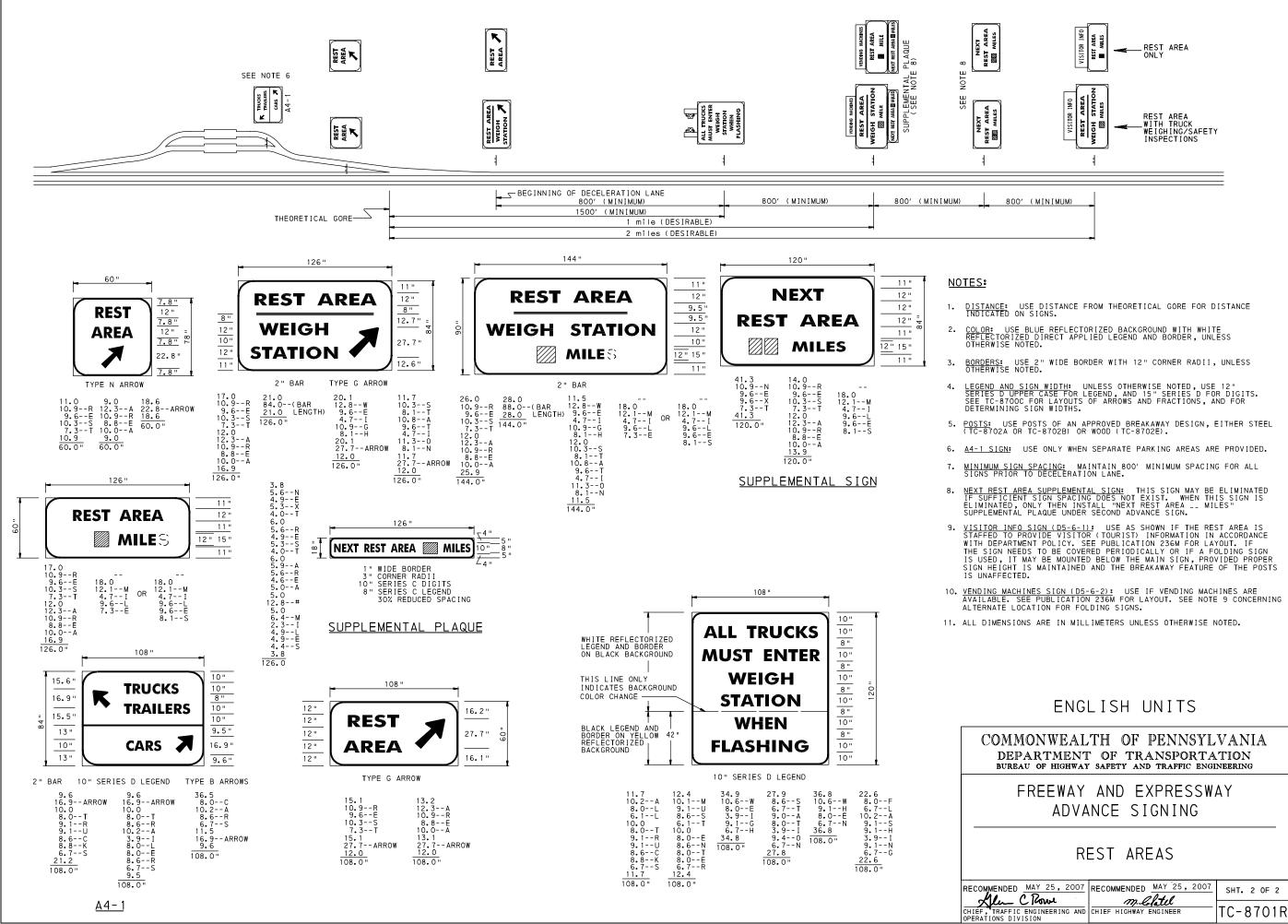
RECOMMENDED MAY 25, 2007		SHT.
Alen C. Rowe	melatel	
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8



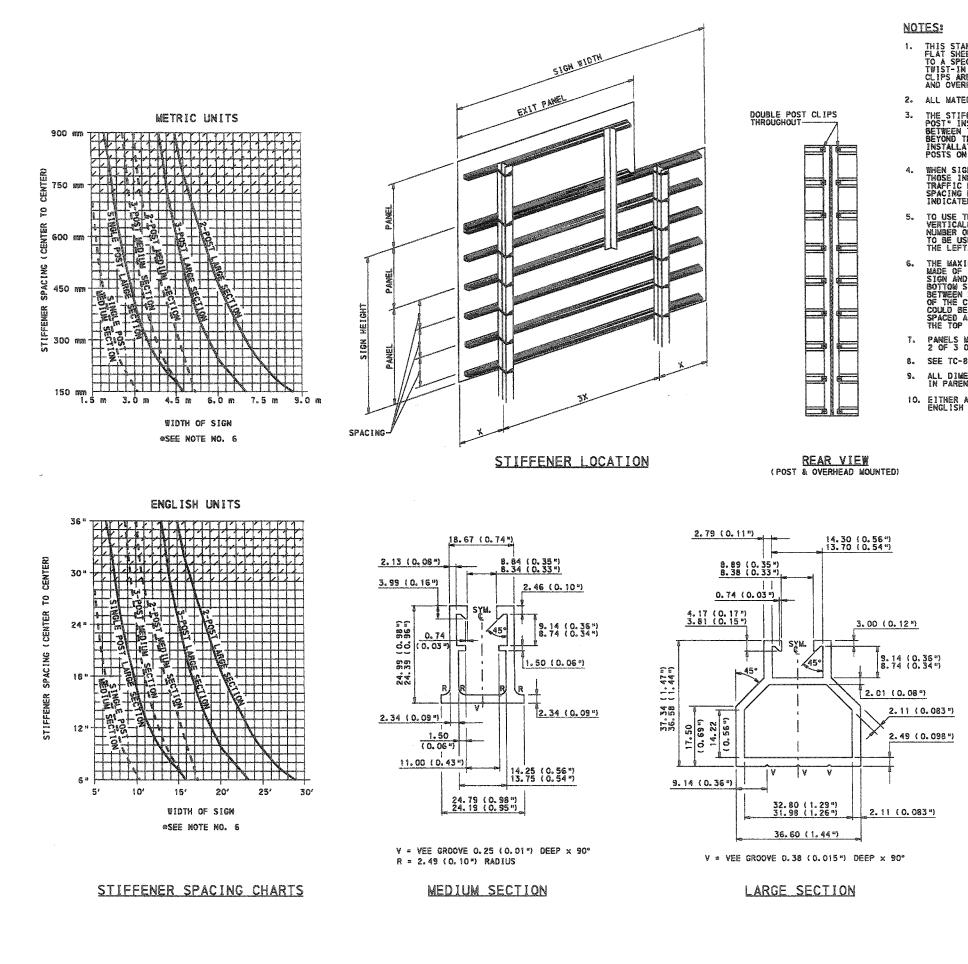
RECOMMENDED MAY 25, 2007		SHT. 2 OF 2
Ale C Rowe	m. lafatel	
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-87016



RECOMMENDED	MAY	25,	2007					2007	SHT.	1	0F	2
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CHIEF, TRAFFIC OPERATIONS DIV	ENGIN	IEERIN	NG AND	CHIEF HIGH	WAY EN	IGINEE	ER		TC-8	37	0	1 R



RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 2 OF 2
Alen C Rowe	m. Colatel	
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8701R



THIS STANDARD SHALL APPLY TO LARGE REFLECTORIZED SIGNS MANUFACTURED FROM FLAT SHEET ALUMINUM, BRACED WITH EXTRUDED ALUMINUM STIFFENERS, AND CONNECTED TO A SPECIFIED TYPE OF POST (OR VERTICAL SUPPORT OF A STRUCTURE) BY USE OF TWIST-IN TOGGLE AND BUCKLE STRAPS, OR STAINLESS STEEL POST CLIPS. WHEN POST CLIPS ARE USED, A DOUBLE POST (CLIP PATTERN IS REQUIRED FOR BOTH POST MOUNTED AND OVERHEAD SIGN INSTALLATIONS.

2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THIS STANDARD AND PUB. 408.

THE STIFFENER SPACING CHART ON THIS SHEET IS DESIGNED TO ACCOMODATE "SINGLE-POST" INSTALLATIONS AND "MULTIPLE-POST" INSTALLATIONS WHERE THE SPACING BETWEEN THE POSTS (OR VERTICAL SUPPORTS) IS THREE TIMES THE SIGN OVERHANG BEYOND THE END POSTS. (THE SPACING BETWEEN THE POSTS ON A "TWO-POST" INSTALLATION IS THREE-FIFTHS OF THE SIGN WIDTH, AND SPACING BETWEEN THE POSTS ON A "THREE-POST" INSTALLATION IS ONE-THIRD OF THE SIGN WIDTH.)

WHEN SIGNS ARE TO BE INSTALLED AND THE SPACING OF THE POSTS IS OTHER THAN THOSE INDICATED IN NOTE NO. 3, THE FABRICATOR SHOULD CONSULT THE DISTRICT TRAFFIC ENGINEER FOR THE PROPER SPACING OF THE STIFFENERS. HOWEVER, THE SPACING BETWEEN THE STIFFENERS SHALL NOT BE GREATER THAN THE SPACING INDICATED IN THE CHART FOR THE SAME WIDTH OF SIGN.

TO USE THE STIFFENER SPACING CHART, START WITH THE SIGN WIDTH AND GO VERTICALLY UPWARD UNTIL INTERSECTING THE CURVED LINE INDICATING THE PROPER NUMBER OF POSTS (OR VERTICAL SUPPORTS) AND THE TYPE OF STIFFENER SECTION TO BE USED. THE MAXIMUM STIFFENER SPACING IS INDICATED HORIZONTALLY TO THE LEFT.

THE MAXIMUM STIFFENER SPACING IS NORMALLY 725 (29"). HOWEVER, FOR SIGNS MADE OF A CONTINUOUS SHEET OF ALUMINUM THROUGNOUT THE HEIGHT OF THE SIGN AND ON WHICH THE FLAT SHEET ALUMINUM OVERHANGS BOTH THE TOP AND BOTTOM STIFFENERS BY A DISTANCE EQUAL TO ONE-THIND OF THE SPACING BETWEEN STIFFENERS, STIFFENERS SPACINGS INDICATED IN THE SHADED PORTION OF THE CHART MAY BE USED. (EXAMPLE: A 3600 × 1500 (144" × 60") SIGN COULD BE INSTALLED ON TWO POSTS USING ONLY TWO LARGE SECTION STIFFENERS SPACED AT THE ULTIMATE 900 (36") SPACING, WITH 300 (12") OF THE SIGN ABOVE THE TOP STIFFENER AND 300 (12") OF THE SIGN BELOW THE BOTTOM STIFFENER.)

7. PANELS MAY BE SPLICED USING ANY OF THREE ARRANGEMENTS SHOWN ON SHEET 2 OF 3 OF THIS STANDARD.

8. SEE TC-8702E FOR INSTALLATION ON WOOD POSTS.

9. ALL DIMENSIONS ARE IN WILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ().

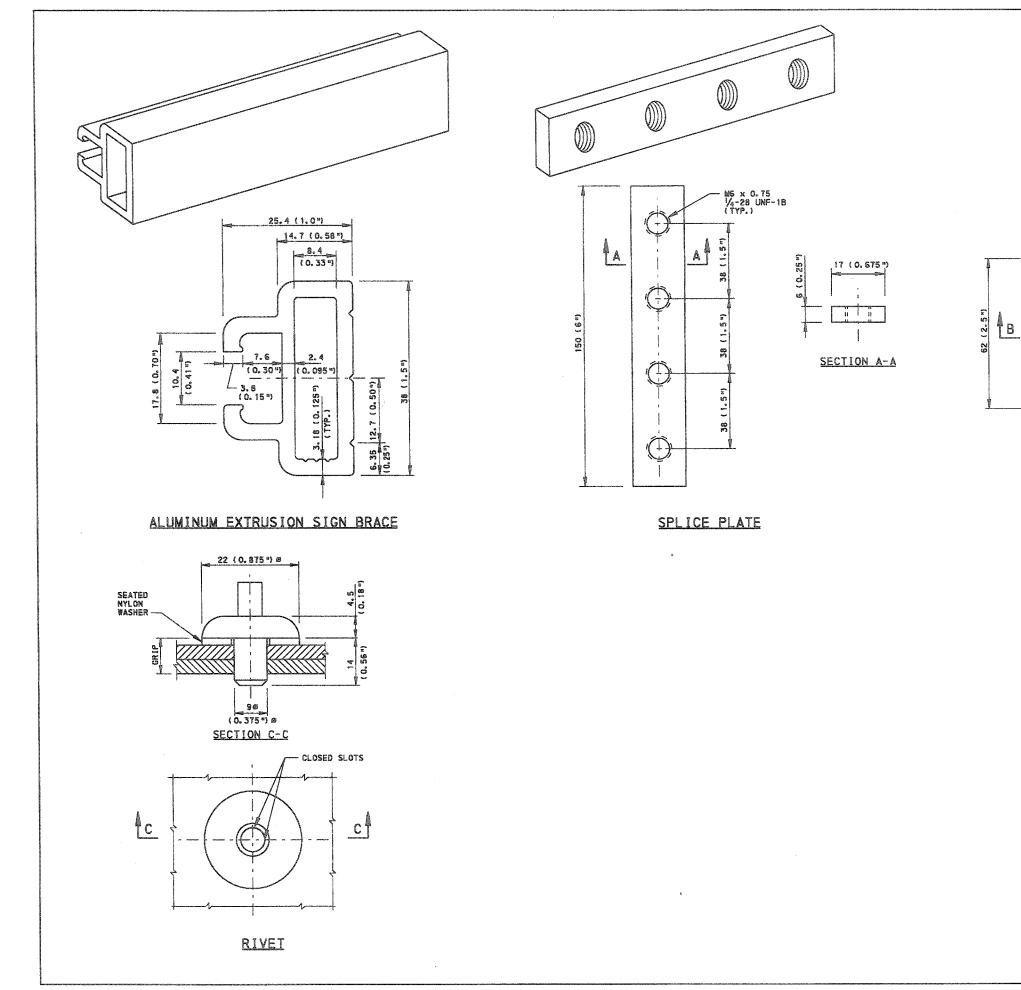
10. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BURBAU OF HERHWAY SAFETY AND TRAFFIC ENGENEERING

FLAT SHEET ALUMINUM SIGNS WITH EXTRUDED ALUMINUM STIFFENERS

# GENERAL INFORMATION

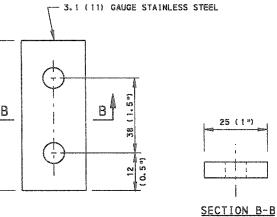
I alla C Rowel Day Xiga	RECOMMENDED	JUL. 18, 2008	RECOMMENDED JUL 18, 2008	SHT.	1 0 = 4
CHIEF, TRAFFIC ENGINEERING AND ACTING MR. BUR. OF HIGHWAY	CHIEF, TRAFFIC	ENGINEERING AND	ACTING MAR. BUR. OF HIGHWAY	TC-4	87015

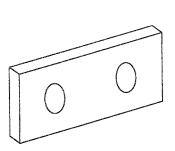


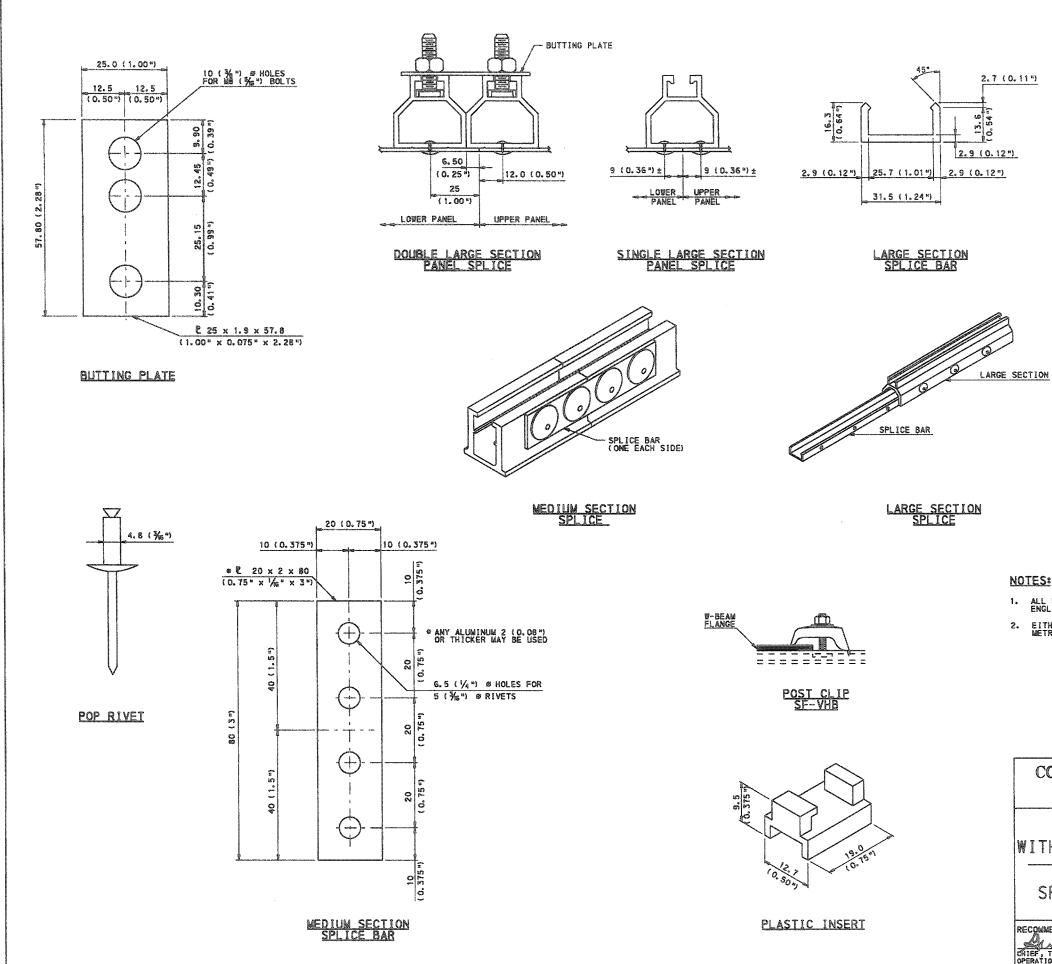
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BURBAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING
FLAT SHEET ALUMINUM SIGNS WITH EXTRUDED ALUMINUM STIFFENERS
GENERAL INFORMATION
RECOMMENDED JUL. 18, 2008 CHIEF, TRAFTIC ENGINEERING AND CHIEF, TRAFTIC ENGINEERING AND CHIEF, TRAFTIC ENGINEERING AND CHIEF, TRAFTIC ENGINEERING CHIEF, TRAFTIC ENGI

# BUTTING PLATE

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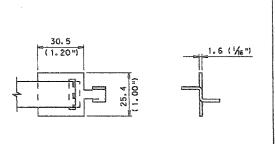


NOTES:
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION BURBAU OF HEGHVAY SAFETY AND TRAFFIC ENGINEERING
FLAT SHEET ALUMINUM SIGNS
WITH EXTRUDED ALUMINUM STIFFENERS
SPLICE AND CONNECTION DETAILS
RECOMMENDED JUL. 18, 2008 RECOMMENDED JUL, 18, 2008 SHT. 3 OF 4
CHIEF, TRAFFIC ENGINEERING AND ACTING D'R. BUR. OF HIGHWAY OPERATIONS DIVISION SAFETY AND TRAFFIC ENGINEERING TC-8701S

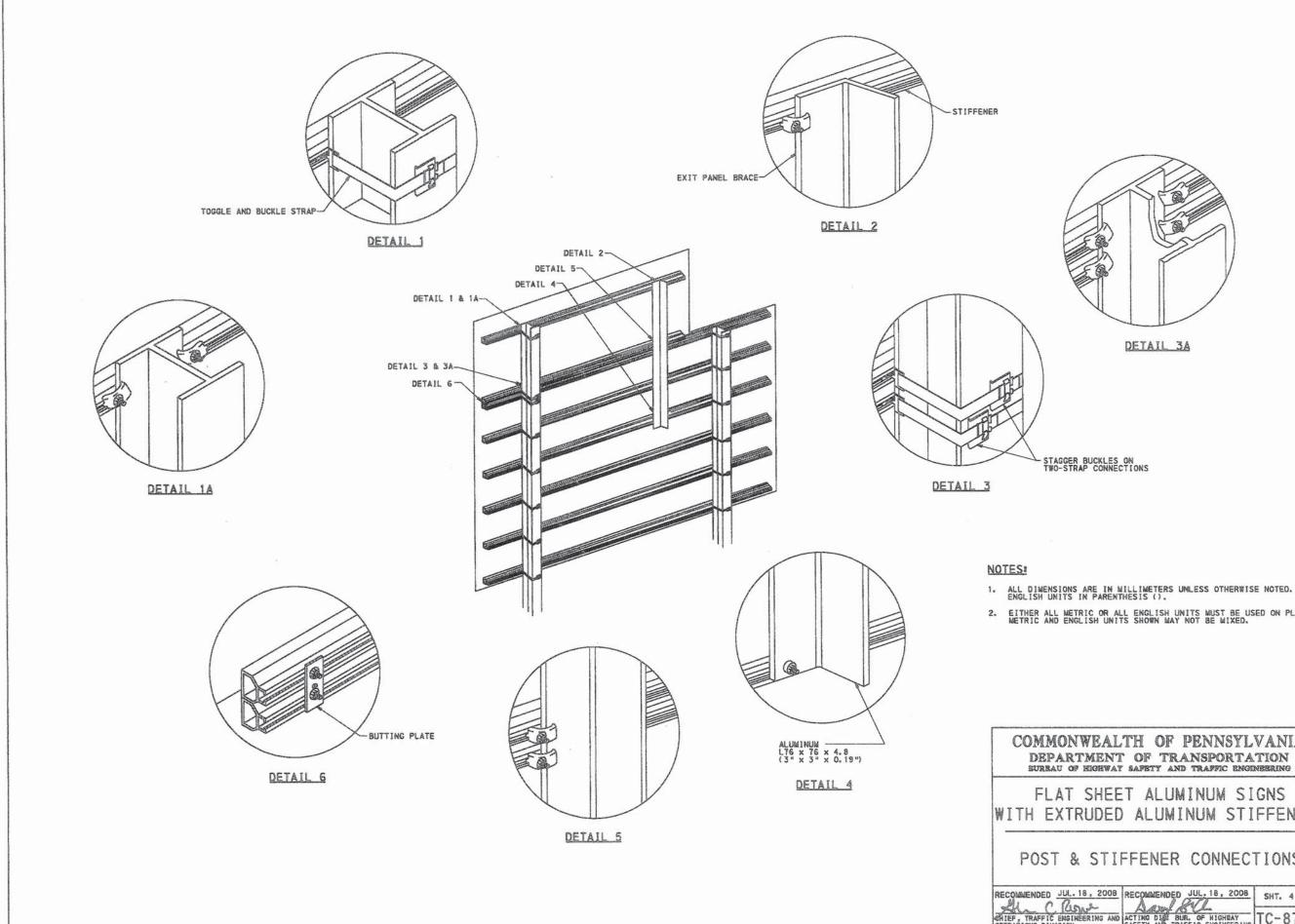
TWIST-IN BOLT

BOLT HEAD LOCKS INTO CHANNEL AS NUT IS TIGHTENED.

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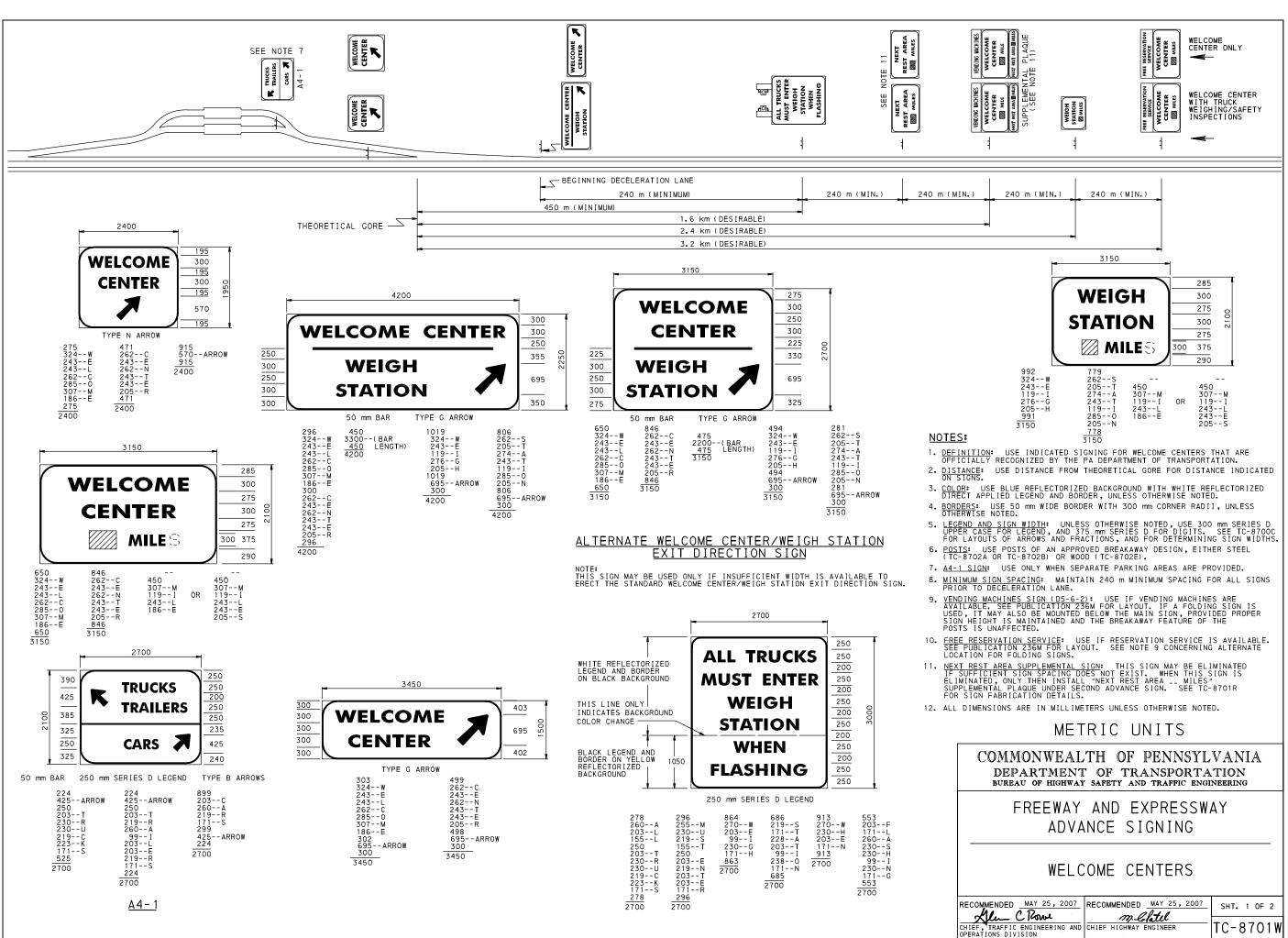


<u>TWIST-IN TOGGLE</u>

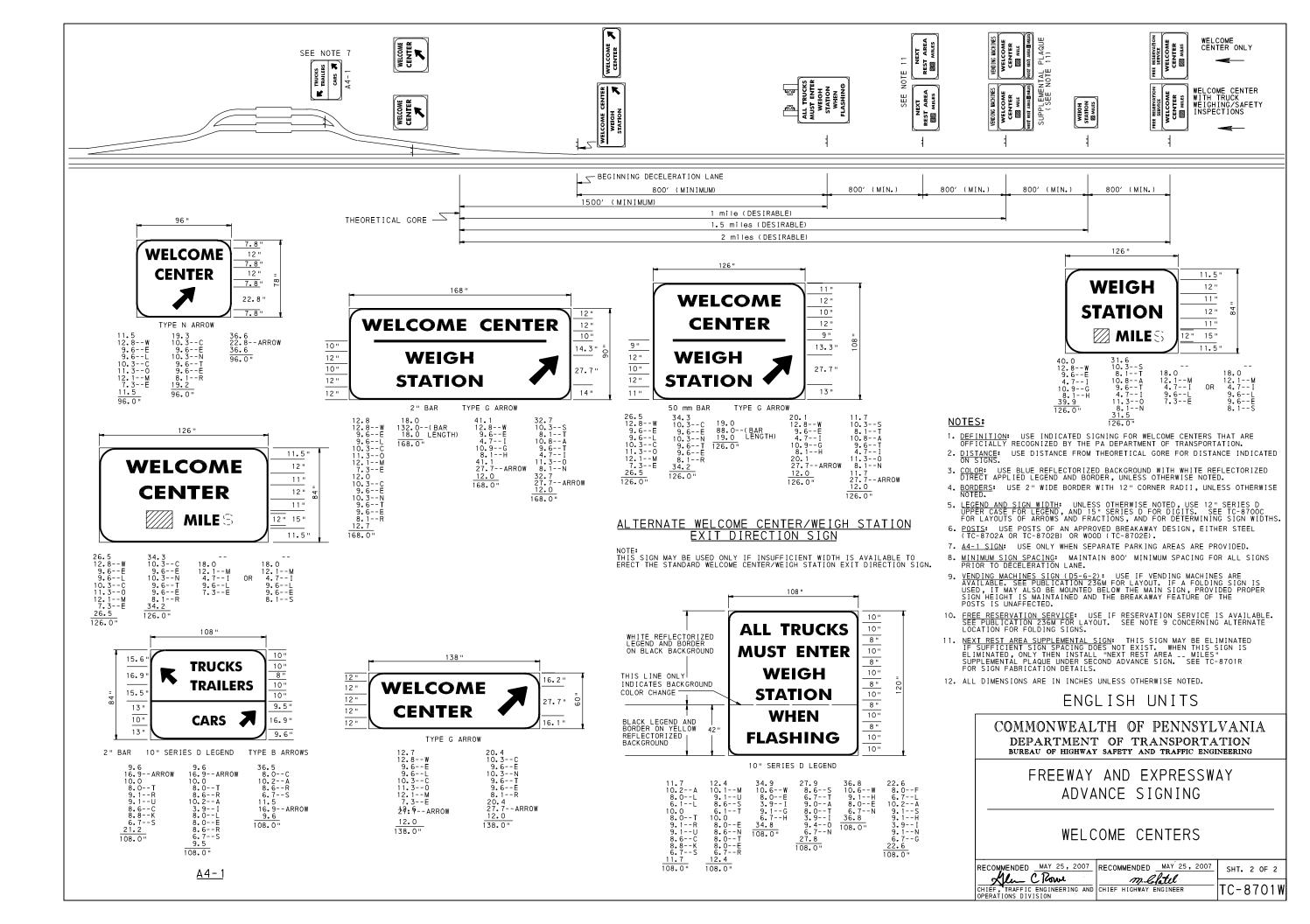


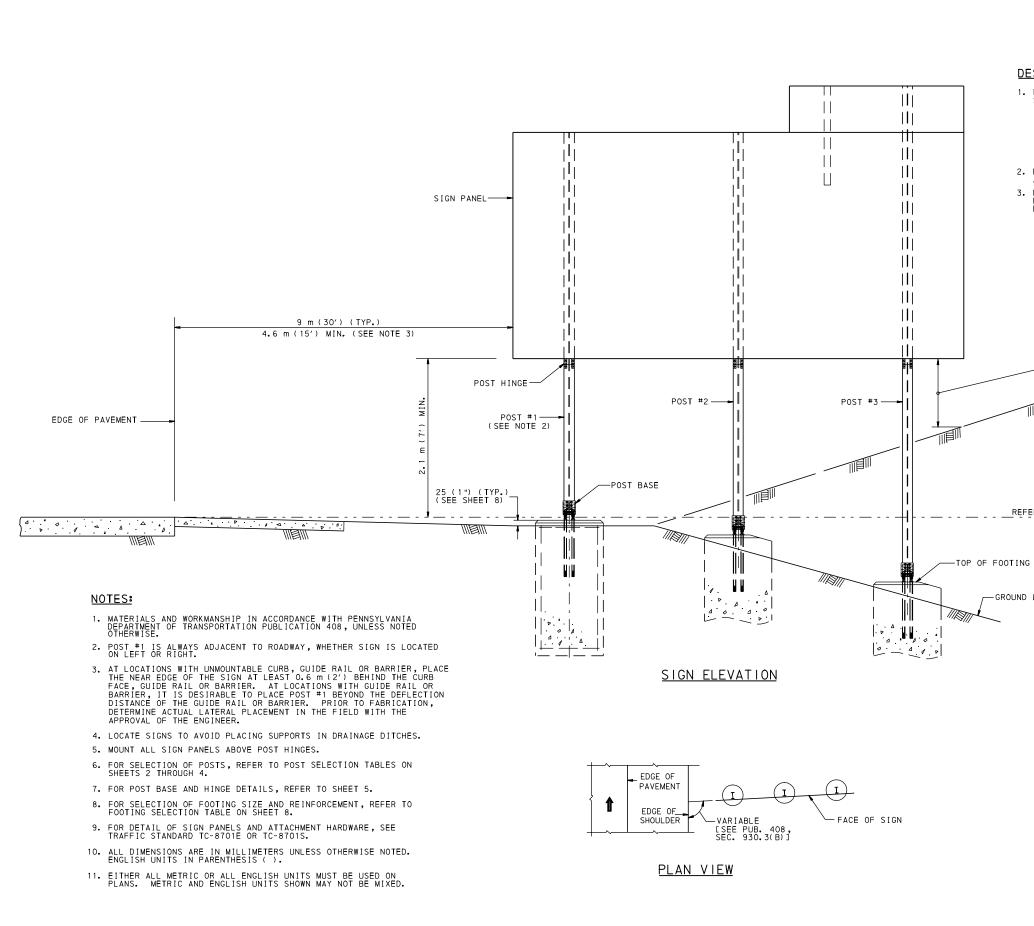
EPAF	TME	NT	OF T	RAN	SPOR	TAT	rion	Ţ
)ST	& S1	IFF	ENE	R C	ONN	ECT	IOI	٧S
DED JUL	. 18 , 20	008 RE	COMMEND		. 18, 2	2008	SHT.	4 OF 4
	FLAT EXT	EPARTME FLAT SHI EXTRUD	DEPARTMENT TREAU OF HIGHWAY & FLAT SHEET EXTRUDED OST & STIFF	DEPARTMENT OF THE TREAD OF HIGHWAY SAFETY A FLAT SHEET ALL EXTRUDED ALUN OST & STIFFENE	DEPARTMENT OF TRANS TRAN OF HIGHWAY SAFETY AND TR FLAT SHEET ALUMIN EXTRUDED ALUMINU OST & STIFFENER C	DEPARTMENT OF TRANSPOR TRAD OF HIGHWAY SAFETY AND TRAFFIC FLAT SHEET ALUMINUM EXTRUDED ALUMINUM S OST & STIFFENER CONN	DEPARTMENT OF TRANSPORTATION TREAD OF HIGHWAY SAFETY AND TRAFFIC ENGINE FLAT SHEET ALUMINUM SIG EXTRUDED ALUMINUM STIN OST & STIFFENER CONNECT	MMONWEALTH OF PENNSYLVAN DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION FLAT SHEET ALUMINUM SIGNS EXTRUDED ALUMINUM STIFFE OST & STIFFENER CONNECTION DED JUL. 18, 2008 RECOMMENDED JUL. 18, 2008 SHT.

- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.



	RECOMMENDED MAY 25, 2007	SHT. 1 OF 2
_ C. Rowe	melafatel	
CHIEF, TRAFFIC ENGINEERING AND	CHIEF HIGHWAY ENGINEER	TC-8701W





## DESIGN CRITERIA:

- DESIGN BASED ON 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS INCLUDING 2002 INTERIM SPECIFICATIONS WITH THE FOLLOWING DESIGN CRITERIA:
  - BASIC WIND SPEED (V) = 40 m/sec (90 MPH) (3-SECOND GUST) WIND IMPORTANCE FACTOR (1,) = 0.71 (10 YEAR DESIGN LIFE) BENDING COEFFICIENT (C<sub>b</sub>) = 1.30 FATIGUE IS NOT CONSIDERED FOR ROADSIDE SIGNS.
- 2. EMBEDMENT OF FOOTINGS IS BASED ON BROMS' METHOD OUTLINED IN THE AASHTO SPECIFICATIONS. SEE SHEET 8 FOR SOIL PROPERTIES.
- 3. MINIMUM POST HEIGHT BETWEEN GROUND LEVEL AND BOTTOM OF SIGN WILL BE 7 FT. WHENEVER THE POST IS LOCATED IN THE CLEAR ZONE AS DEFINED IN PUBLICATION 13M.

- 1.5 m (5') MIN. (EXCEPT 0.3 m (1') MIN. AT LOCATIONS WHERE NO PART OF THE SIGN FACE WILL BE OBSCURED BY VEGETATION AND WHERE THE SIGN IS PROTECTED BY GUIDERAIL OR LOCATED WHERE IT IS VERY UNLIKELY TO BE HIT BY AN ERRANT VEHICLE, e.g., ON A VERY STEEP BANK.)

REFERENCE LINE

-GROUND LINE

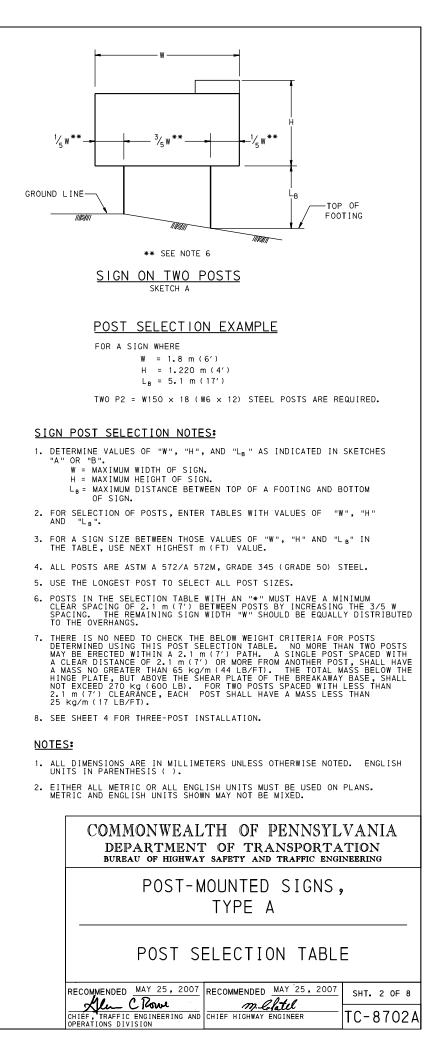
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering	
POST-MOUNTED SIGNS, TYPE A	
ERECTION DETAILS	-

RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 1 OF 8
Allen C Rowe	m.l.latel	
Jun Orever		
CHIEF, TRAFFIC ENGINEERING AND	CHIEF HIGHWAY ENGINEER	ITC-87024
OPERATIONS DIVISION		10 01027

					FU	51 SE	LEUII				POSTS						
W m (FT)		1.220	1.525	1.830	2.135	2.440	2.745		<b>⊣T</b> "Η ] <b>3.</b> 355		m (FT 3.965		4.575	4.880	5.185	5.490	5.7
	m (FT)	<u>(4')</u> P1	(5') P1	(6′) P1	(7') P1	(8') P1	(9') P1	(10') P1	(11') P2	(12') P2	(13') P3	(14') P3	(15') P3	(16') P3	(17') P3	(18')	(19
	2.4(8')	P1	P1	P1	P1	P1	P1	P1 P2	P2 P2	P2 P2	P3 P3	P3	P3 P3	P3	-	-	-
	2.7 (9')	P1	P1	P1	P1	P1	P2	P2	P2	P3	P3	P3	P3	-	-	-	-
	3.0(10')	P1 P1	P1 P1	P1 P1	P1 P1	P2 P2	P2	P2	P3 P3	P3 P3	P3	P3 -	-	-	-	-	-
1.8 (6')	3.3 (11') 3.6 (12')	P1	P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3	P3 P3	P3 -	-	-	-	-	-	-
	3.9 (13')	P1	P1	P1	P2	P2	P3	P3	P3	P3	-	-	-	-	-	-	-
	4.2 (14')	P1	P1	P2	P2	P3	P3	P3	P3	-	-	-	-	-	-	-	-
	4.5 (15')	P1 P1	P2 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P3	-			-		-	-	-	-
	5.1 (17')	P2	P2	P2	P3	P3	P3	-	-	-	-	-	-	-	-	-	- 1
	2.1 (7')	P1	P1	P1	P1	P1	P1	P2	P2	P2	P3	P3	P3	P3	-	-	-
	2.4 (8') 2.7 (9')	P1 P1	P1 P1	P1 P1	P1 P1	P1 P2	P2 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P3	P3 -	-	-	-	-
	3.0(10')	P1	P1	P1	P1	P2	P2	P3	P3	P3	P3	-	-	-	-	-	-
	3.3 (11')	P1	P1	P1	P2	P2	P2	P3	P3	P3	-	-	-	-	-	-	-
2.1 (7')	3.6 (12') 3.9 (13')	P1 P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P3	-	-	-	-	-	-	-	-
	4.2 (14')	P1	P2	P2	P2	P3	P3	P3	-	-	-	-	-	-	-	-	
	4.5 (15')	P1	P2	P2	P3	P3	P3	-	-	-	-	-	-	-	-	-	-
	4.8 (16')	P2 P2	P2 P2	P3 P3	P3 P3	P3 P3	P3 -	-	-	-	-	-	-	-	-	-	-
	2.1(7')	P1	P1	P1	P1	P1	P2	P2	P2	P3	- P3	- P3	P3	-	-	-	
	2.4 (8')	P1	P1	P1	P1	P1	P2	P2	P3	P3	P3	P3	-	-	-	-	-
	2.7(9')	P1 P1	P1 P1	P1	P1	P2	P2	P3	P3	P3	P3	-	-		-	-	-
	3.0 (10') 3.3 (11')	P1 P1	P1 P1	P1 P1	P2 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 -	-	-	-	-	-	-	-
2.4 (8')	3.6 (12')	P1	P1	P2	P2	P2	P3	P3	P3	-	-	-	-	-	-	-	-
	3.9(13')	P1	P1	P2	P3	P3	P3	P3	-	-	-	-	-	-	-	-	-
	4.2 (14')	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P3	-	-	-	-	-		-		-	
	4.8 (16')	P2	P2	P3	P3	P3	-	-	-	-	-	-	-	-	-	-	-
	5.1 $(17')$	P2	P3	P3	P3	P3	-	-	-	-	-	-	-	-	-	-	-
	2.1 (7') 2.4 (8')	P1 P1	P1 P1	P1 P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P3	P3 P4 *	P4 *	P4 * P5 *	P5 * P5 *	P5 *	P7 P7
	2.7 (9')	P1	P1	P1	P2	P2	P2	P3	P3	P3	P4 *	P4 *	P5 *	P5 *	P7 *	P7 *	P7
	3.0(10')	P1	P1	P1	P2	P2	P3	P3	P3	P3	P4 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8
27(91)	3.3 (11') 3.6 (12')	P1 P1	P1 P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P3	P3 P4 *	P4 * P5 *	P5 * P5 *	P5 * P5 *	P5 *	P7 * P7 *	P7 * P7 *	P7 * P8 *	P8 P10
2.1 (3)	3.9(13')	P1	P2	P2	P3	P3	P3	P4 *	P4 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8 *	P9 *	P10
	4.2 (14')	P1	P2	P3	P3	P3	P3	P4 *	P5 *	P5 *	P6 *	P7 *	P7 *	P8 *	P8 *	P10 *	
	4.5 (15')	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4 *	P4 *	P5 * P5 *	P5 * P5 *	P5 *	P7 *	P7 *	P7 * P8 *	P8 *	P10 *	P10 *	P10
	5.1 (17')	P2	P3	P3	P3	P4 *	P5 *	P5 *	P6 *	P7 *	P7 *	P8 *	P8 *	-	-	-	-
	2.1 (7')	P1	P1	P1	P1	P2	P2	P2	P3	P3	P3	P4 *	P4 *	P5 *	P5 *	P6 *	P7
	2.4 (8') 2.7 (9')	P1 P1	P1 P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P3	P3 P4 *	P4 * P5 *	P5 * P5 *	P5 * P7 *	P7 *	P7 *	P7 P8
	$\frac{2 \cdot 7 (9)}{3 \cdot 0 (10')}$	P1 P1	P1	P1 P2	P2 P2	P2 P2	P3	P3	P3	P4 *	P4 * P5 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8
	3.3 (11')	P1	P1	P2	P2	P3	P3	P3	P4 *	P5 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8 *	P10
3.0 (10′)	3.6(12')	P1	P2	P2	P3	P3	P3	P3	P4 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8 *		P10
	3.9 (13')	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4 *	P4 *	P5 * P5 *	P5 * P5 *	P6 *	P7 * P7 *	P7 *	P8 *	P8 * P10 *	P10 * P10 *	
	4.5 (15')	P2	P2	P3	P3	P4 *	P4 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8 *	P10 *	P10 *		
	4.8 (16')	P2	P3	P3	P3	P4 *	P5 *	P5 *	P6 *	P7 *	P7 *	P8 *	P9 *	-	-	-	-
	5.1 (17') 2.1 (7')	P2 P1	P3 P1	P3 P1	P4 * P1	P4 * P2	P5 * P2	P5 * P3	P7 * P3	P7 * P3	P7 * P3	P8 *	- P5 *	- P5 *	- P6 *	- P7 *	- P7
	2.4 (8')	P1	P1	P1	P2	P2	P2	P3	P3	P3	P4 *	P5 *	P5 *	P5 *	P7 *	P7 *	P8
	2.7(9')	P1	P1	P1	P2	P2	P3	P3	P3	P4 *	P4 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8
	3.0 (10') 3.3 (11')	P1 P1	P1 P2	P2 P2	P2 P2	P3 P3	P3 P3	P3 P3	P3 P4 *	P4 * P5 *	P5 * P5 *	P5 * P7 *	P7 *	P7 *	P7 * P8 *	P8 * P9 *	
3.3 (11')	3.6 (12')		P2	P2	P3	P3	P3	P4 *	P5 *	P5 *	P6 *	P7 *	P7 *		P9 *	P10 *	P10
	3.9(13')	P1	P2	P2	P3	P3	P4 *	P5 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8 *		P10 *	
	4.2 (14')	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4 *	P4 * P5 *	P5 * P5 *	P5 * P5 *	P7 *	P7 *	P7 * P8 *	P8 * P9 *	P10 *	P10 *	P10 *	- 10
	4.8 (16')	P2	P3	P3	P4 *	P4 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8 *	-	-	-		-
	5.1(17')	P3	P3	P3	P4 *	P5 *	P5 *	P7 *	P7 *	P7 *	P8 *	-	-	-	-	<u> </u>	-
	2.1 (7') 2.4 (8')	P1 P1	P1 P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P6 P7	P7 P7	P7 P7	P Pi
	2.7 (9')	P1	P1	P2	P2	P3	P3	P3	P3	P4	P5	P5	P7	P7	P7	P8	P1
	3.0(10')	P1	P1	P2	P2	P3	P3	P3	P4	P4	P5	P7	P7	P7	P8	P9	P1
3.6 (12')	3.3 (11') 3.6 (12')	P1 P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P5	P5 P7	P7 P7	P7 P7	P8 P8	P8 P10	P10 P10	P1 P1
	3.9 (13')	P2	P2	P3	P3	P3	P4	P5	P5	P5	P7	Ρ7	P8	P10	P10	P10	-
	4.2 (14')	P2	P3	P3	P3	P4 P4	P5 P5	P5	P5	P7	P7	P8	P9	P10	P10	P10	-
	4.5 (15')	P2 P2	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P7	P7 P8	P8 -	P10 -	P10 -	P10 -	-	-
	5.1 (17')	Р3	P3	P3	P4	P5	P5	P7	Ρ7	P7	P9	-	-	-	-	-	-
	2.1(7')	P1	P1	P1	P2	P2	P3	P3	P3	P3	P4	P5	P6	P6	P7	P7	P
	2.4 (8') 2.7 (9')	P1 P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4	P4 P4	P4 P5	P5 P5	P6 P7	P7 P7	P7 P8	P8 P9	P1
	3.0 (10')	P1	P2	P2	P2	P3	P3	P3	P4	P5	P5	Ρ7	P7	P7	P8	P10	P1
	3.3(11')	P1	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P7	P8	P10	P10	P1
ว.ษ (13′)	3.6 (12') 3.9 (13')	P1 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P5	P7 P7	P7 P7	P7 P8	P8 P9	P10 P10	P10 P10	P10 P10	P1
	4.2 (14')	P2	P3	P3	P3	P4	P5	P5	P7	P7	P7	P8	P10	P10	P10	-	-
	4.5 (15')	P2	P3	P3	P4	P5	P5	P6	P7	P7	P8	P10	P10	P10	-	-	-
	4.8 (16') 5.1 (17')	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P7	P8 P8	P8 -	-	-		-	-	-
	2.1(7')	P3 P1	P3 P1	P4 P1	P5 P2	P5 P2	P7 P3	P7 P3	P7 P3	P8 P4	- P4	- P5	- P6	- P7	- P7	- P7	
	2.4 (8')	P1	P1	P2	P2	P3	P3	P3	P3	P4	P5	P5	P7	P7	P7	P8	P1
	2.7(9')	P1	P1	P2	P2	P3	P3	P3	P4	P5	P5	P5	P7	P7	P8	P10	P1
	3.0 (10') 3.3 (11')	P1 P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P7 P7	P7 P7	P7 P8	P8 P9	P10 P10	P10 P10	P1 P1
4.2 (14')	3.6 (12')	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	Ρ7	P8	P10	P10	P10	-
	3.9 (13')	P2	P2	P3	P3	P4	P5	P5	P7	P7	P7	P8	P10	P10	P10	-	-
	4.2 (14')	P2 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P7	P8 P8	P8 P10	P10 P10	P10 P10	-	-	-
	4.8 (16')	P3	P3	P4	P4	P5	P6	P7	P7	P8	-	-	-	-	-	-	-
	5.1 (17')	P3	P3	P4	P5	P5	P7	P7	P8	P9	-	-	-	-	-	-	-
	E NOTE 6																

#### LEGEND: P1 = W150 x 14 (W6 x 9) P2 = W150 x 18 (W6 x 12) P3 = W150 x 22 (W6 x 15) P4 = W200 x 27 (W8 x 18) P5 = W200 x 31 (W8 x 21) P6 = W250 x 33 (W10 x 22) P7 = W250 x 39 (W10 x 22)

P6 = W250 x 31 (W10 x 22) P7 = W250 x 39 (W10 x 22) P7 = W350 x 45 (W10 x 26) P8 = W360 x 45 (W14 x 30) P9 = W460 x 52 (W18 x 35) P10 = W460 x 60 (W18 x 40)



# (TABLE CONTINUED FROM SHEET 2)

W		I							HEIGH	IT "H	" IN 1	m (FT	)					
m (FT)		в FT)	1.220	1.525	1.830	2.135		2.745	3.050	3.355	3.660	3.965	4.270		4.880	5.185	5.490	5.79
		(7')	<u>(4')</u> P1	(5') P1	(6') P1	(7') P2	(8') P2	(9′) P3	(10') P3	(11') P3	(12') P4	(13') P5	(14') P6	(15') P6	(16') P7	( <u>17')</u> P7	( <u>18')</u> P8	(19 <sup>7</sup> P10
		(8')	P1	P1	P2	P2	P3	P3	P3	P4	P4	P5	P6	P7	P7	P8	P10	P10
		(9') (10')	P1 P1	P1 P2	P2 P2	P3 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P7	P8 P8	P9 P10	P10 P10	P1 P1
		(10)	P1	P2 P2	P2 P3	P3	P3	P3 P4	P4 P5	P5	P5 P7	P7	P7	P7 P8	P10	P10	P10	-
5 (15')			P2	P2	P3	P3	P3	P5	P5	P6	P7	P7	P8	P9	P10	P10	-	-
		(13')	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P9	P10	P10	P10	-	-
		(14')	P2	P3 P3	P3 P3	P4 P4	P5 P5	P5 P5	P7 P7	P7 P7	P7 P8	P8 P10	P10	P10	P10 -	-	-	-
		(15') (16')	P3 P3	P3	P3 P4	P4 P5	P5	P5 P7	P7	P7 P8	P8 P9	-	P10 -	P10 -	-	-	-	-
		(17')	P3	P3	P4	P5	P5	P7	P7	P8	-	-	-	-	-	-	-	-
		(7')	P1	P1	P1	P2	P2	P3	P3	P3	P4	P5	P6	P7	P7	P7	P8	P1
		(8') (9')	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4	P4 P5	P5	P5 P5	P6 P7	P7	P7	P8	P10 P10	P1 P1
		(9')	P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 P9	P10 P10	P10 P10	-
		(11')	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P9	P10	P10	P10	-
.8 (16')			P2	P2	P3	P3	P4	P5	P5	P7	P7	P7	P8	P10	P10	P10	-	-
		(13') (14')	P2 P2	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P6 P7	P7 P7	P7 P8	P8 P9	P10 P10	P10 P10	P10 P10		-	-
		(14)	P2 P3	P3	P3 P4	P4 P5	P5	P7	P7	P7	P8	P10	P10	P10	-	-	-	-
		(16')	P3	P3	P4	P5	P5	P7	P7	P8	-	-	-	-	-	-	-	-
		(17')	P3	P4	P5	P5	P7	P7	P8	P9	-	-	-	-	-	-	-	-
		(7')	P1	P1	P2	P2	P3	P3	P3	P4	P4	P5	P6	P7	P7	P7	P8	P1
		(8') (9')	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P7 P9	P8 P10	P10 P10	P1 P1
		(10')	P1	P2	P3	P3	P3	P4	P5	P5	P5	P7	P7	P8	P10	P10	P10	-
	3.3	(11')	P2	P2	P3	P3	P3	P4	P5	P6	Ρ7	P7	P8	P10	P10	P10	-	-
.1 (17')			P2	P3	P3 P3	P3	P4	P5	P5	P7 P7	P7	P8	P10	P10	P10	P10		-
		(13') (14')	P2 P2	P3 P3	P3 P3	P4 P4	P5 P5	P5 P5	P7 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	P10 -	-	-	-
		(15')	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-	-	-
	4.8	(16')	Р3	P3	P4	P5	P7	P7	P7	P8	-	-	-	-	-	-	-	-
		(17') (7')	P3 P1	P4 P1	P5 P2	P5 P2	P7 P3	P7 P3	P8 P3	- P4	- P5	- P6	- P6	- P7	- P7	- P8	- P9	-
		(8')	P1	P1	P2 P2	P2 P3	P3	P3 P3	P3 P4	P4 P4	P5 P5	P6	P6 P7	P7	P7 P8	P10	P9 P10	P1 P1
		(9')	P1	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-
		(10')	P1	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	P10	-
.4 (18′)		(11')	P2 P2	P2 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P6	P7 P7	P7 P7	P7 P8	P9 P10	P10 P10	P10 P10	P10 -	-	-
4 (18)	3.9	(12)	P2	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-	-
	4.2	(14')	Р3	P3	P4	P5	P5	P7	P7	P7	P9	P10	P10	-	-	-	-	-
		(15')	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-	-	-
		(16') (17')	P3 P3	P4 P4	P5 P5	P5 P5	P7 P7	P7 P7	P8 P8	-	-	-	-	-	-	-	-	-
		(7')	P1	P1	P2	P2	P3	P3	P3	P4	P5	P6	P7	P7	P7	P8	P10	P1
		(8')	P1	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P7	P8	P10	P10	P1
		(9')	P1	P2	P2	P3	P3	P4	P4	P5	P5	P7	P7	P8	P10	P10	P10	-
		(10') (11')	P2 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	P10 -	-	-
.7 (19')			P2	P3	P3	P4	P4	P5	P7	P7	P8	P9	P10	P10	-	-	-	-
		(13')	P2	P3	P3	P4	P5	P6	P7	P7	P8	P10	P10	P10	-	-	-	-
		(14')	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-	-	-
		(15') (16')	P3 P3	P3 P4	P4 P5	P5 P5	P7 P7	P7 P7	P7 P8	P9	P10	P10	-				-	-
		(17')	P3	P4	P5	P7	P7	P8	P9	-	-	-	-	-	-	-	-	-
	2.1	(7')	P1	P1	P2	P2	P3	P3	P4	P4	P6	P6	Ρ7	P7	P8	P9	P10	P1
		(8')	P1	P2	P2	P3	P3	P3	P4	P5	P6	P7	P7	P7	P8	P10	P10	-
		(9') (10')	P1 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P5	P7 P7	P7 P7	P7 P9	P10 P10	P10 P10	P10 P10	-	-
		(10)	P2 P2	P3	P3	P3 P3	P4 P4	P4 P5	P5	P7	P7	P8	P10	P10 P10	P10	-	-	-
0 (20')	3.6	(12')	P2	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-	-
		(13')	P3	P3	P3	P5	P5	P7	P7	P7	P9	P10	P10	-	-	-	-	-
		(14') (15')	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	P10 -	-			-	-
		(15)	P3	P4 P4	P5	P5	P7	P7	P8	-	-	-	-	-	-	-	-	-
	5.1	(17')	P3	P4	P5	P7	P7	P8	-	-	-	-	-	-	-	-	-	-
		(7')	P1	P1	P2	P3	P3	P3	P4	P5	P6	P6	P7	P7	P8	P10	P10	P1
		(8') (9')	P1 P1	P2 P2	P2 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P6 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	P10 -	-
		(10')	P1 P2	P2 P2	P3	P3	P3 P4	P4 P5	P5	P7	P7	P8	P10	P10	P10	-	-	-
	3.3	(11')	P2	P3	P3	P3	P4	P5	P5	P7	P7	P9	P10	P10	-	-	-	-
3 (21')			P2	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-	-
		(13') (14')	P3 P3	P3 P3	P3 P4	P5 P5	P5 P6	P7 P7	P7 P7	P8 P9	P10 P10	P10 P10	P10 -	-	-	-	-	-
		(14')	P3	P3 P4	P4 P5	P5	P6 P7	P7	P1 P8	P9 P10	P10	P10 P10	-	-	-	-	-	-
	4.8	(16')	P3	P4	P5	P7	P7	P8	-	-	-	-	-	-	-	-	-	-
		(17')	Ρ4	P5	P5	P7	P7	P8	-	-	-	-	-	-	-	-	-	-
		(7') (8')	P1 P1	P1 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P6 P6	P7 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 -	-
		(8')	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P4 P4	P5 P5	P5 P5	P6 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	-	-
	3.0	(10')	P2	P2	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-
	3.3	(11')	P2	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-	-	-	-
.6 (22')			P2	P3	P3	P4	P5	P7	P7	P7	P9	P10	P10	-	-	-	-	-
		(13') (14')	P3 P3	P3 P3	P4 P4	P5 P5	P5 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	P10 -				-	-
		$(14^{\circ})$	P3	P3 P4	P4 P5	P5 P5	P7	P7 P7	P8	P10 P10	P10 P10	-	-	-	-	-	-	-
	4.8	(16')	P3	P4	P5	P7	P7	P8	-	-	-	-	-	-	-	-	-	-
		(17')	P4	P5	P5	P7	P7	P9	-	-	-	-	-	-	-	-	-	-

#### LEGEND: P1 = W150 x 14 (W6 x 9) P2 = W150 x 18 (W6 x 12) P3 = W150 x 22 (W6 x 15) P4 = W000 x 27 (W8 x 18)

Ρ4	=	W200	х	27	(W8 × 18)	
Ρ5	=	W200	×	31	(W8 x 21)	
Ρ6	=	W250	х	33	(W10 x 22)	
Ρ7	=	W250	х	39	(W10 x 26)	
P8	=	W360	х	45	(W14 × 30)	
Ρ9	=	W460	х	52	(W18 x 35)	
P10	=	W460	х	60	(W18 × 40)	

POST-MOUNTED SIGNS, TYPE A	,								
POST SELECTION TABLE									
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007 ML 25, 2007 ML 25, 2007 ML 25, 2007	SHT. 3 OF 8								
CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER OPERATIONS DIVISION	TC-8702A								

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering

- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- NOTES: 1. SEE SHEET 2 FOR SIGN POST SELECTION NOTES AND SHEET 4 FOR SIGNS ON THREE POSTS.

					PUSI	SELECI			- THRE						
~	W (FT)		1.220	1.525	1.830	2.135	HE 2,440	1GHT 2.745	"H" II 3.050	N m (F 3,355	·   )   3.660	3.965	4.270	4.575	4.880
111		m (FT)	(4')	(5')	(6')	(7')	(8')	(9')	(10')	(11')	(12')	(13')	(14')	(15')	(16')
		2.1 (7') 2.4 (8')	P1 P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P5	P6 P7	P7 P7
		2.7 (9')	P1	P1	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8
		3.0 (10') 3.3 (11')	P1 P1	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P7	P7 P7	P7 P7	P7 P8	P8 P10
6.6	(22')	3.6 (12')	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P9	P10
		3.9 (13') 4.2 (14')	P2 P2	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10
		4.5 (15')	P3	P3	P3	P4	P5	P5	P7	P7	P8	-	-	-	-
		4.8 (16')	P3 P3	P3 P3	P4 P4	P5 P5	P5 P5	P7 P7	P7 P7	P7 P8	P8	-	-	-	-
		2.1(7')	P1	P1	P1	P2	P2	P3	P3	P3	P4	P5	P6	P6	P7
		2.4(8')	P1 P1	P1	P2	P2 P3	P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P5	P6	P7 P7	P7
		2.7 (9') 3.0 (10')	P1 P1	P2 P2	P2 P2	P3	P3 P3	P3	P4 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 P9
~ ^	1071)	3.3 (11') 3.6 (12')	P2	P2 P2	P3	P3 P3	P3 P4	P4 P5	P5	P5 P7	P7 P7	P7 P7	P7 P8	P8 P10	P10 P10
0.9	(25)	3.9(12)	P2 P2	P2 P3	P3 P3	P3	P4 P4	P5 P5	P5 P5	P7	P7 P7	P7 P8	P8	P10 P10	P10
		4.2 (14')	P2	P3	P3	P4	P5	P5	P7	P7	P7	P8	P10	P10	P10
		4.5 (15')	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P6 P7	P7 P7	P7 P8	P8 P9	-	-	-	-
		5.1 (17')	P3	P3	P4	P5	P7	P7	P7	P8	-	-	-	-	-
		2.1 (7') 2.4 (8')	P1 P1	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P6 P6	P7 P7	P7 P7
		2.7 (9')	P1	P2	P2	P3	P3	P3	P4	P5	P5	P5	P7	P7	P8
		3.0 (10') 3.3 (11')	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 P9	P10 P10
7.2	(24')	3.6 (12')	P2	P2	P3	P3	P4	P5	P5	P7	P7	P7	P8	P10	P10
		3.9 (13') 4.2 (14')	P2 P2	P3 P3	P3 P3	P4 P4	P5 P5	P5 P5	P6 P7	P7 P7	P7 P8	P8 P9	P10 P10	P10 P10	P10
		4.5 (15')	P2 P3	P3	P4	P5	P5	P7	P7	P7 P7	P8 P8	-	-	-	-
		4.8 (16')	P3	P3 P4	P4 P5	P5 P5	P5	P7 P7	P7	P8 P9	-	-	-	-	-
		5.1 (17') 2.1 (7')	P3 P1	P4 P1	P5 P2	P5 P2	P7 P3	P7 P3	P8 P3	P9 P4	- P4	- P5	- P6	- P7	- P7
		2.4 (8')	P1	P1	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P7
		2.7 (9') 3.0 (10')	P1 P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P5	P6 P7	P7 P7	P7 P8	P8 P10
		3.3 (11')	P2	P2	P3	P3	P3	P4	P5	P6	P7	P7	P8	P10	P10
(.5	(25')	3.6 (12') 3.9 (13')	P2 P2	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P7	P8 P8	P9 P10	P10 P10	P10 P10
		4.2 (14')	P2	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-
		4.5 (15') 4.8 (16')	P3 P3	P3 P3	P4 P4	P5 P5	P5 P6	P7 P7	P7 P7	P8 P8	P9 -		-	-	-
		5.1 (17')	P3	P4	P5	P5	P7	P7	P8	-	-	-	-	-	-
		2.1 (7') 2.4 (8')	P1 P1	P1 P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P6 P6	P6 P7	P7 P7	P7 P7
		2.7 (9')	P1	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P9
		3.0 (10') 3.3 (11')	P1 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P7	P7 P7	P7 P7	P8 P8	P9 P10	P10 P10
7.8	(26')	3.6 (12')	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10
		3.9(13') 4.2(14')	P2 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P7	P7 P7	P7 P7	P8 P8	P9 P10	P10 P10	P10 P10	-
		4.5 (15')	P3	P3	P4	P5	P5	P7	P7	P8	-	-	-	-	-
		4.8 (16')	P3 P3	P4 P4	P4 P5	P5 P5	P7 P7	P7 P7	P7 P8	P9	-	-	-	-	-
		2.1 (7')	P1	P1	P2	P2	P3	P3	P3	P4	P5	P6	P6	P7	P7
		2.4 (8') 2.7 (9')	P1 P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P3	P4 P4	P5 P5	P5 P5	P6 P7	P7 P7	P7	P8 P10
		$\frac{2 \cdot 7 (9)}{3 \cdot 0 (10')}$	P1 P2	P2 P2	P2 P3	P3	P3	P3 P4	P4 P5	P5	P7	P7	P7 P8	P8 P10	P10
<b>•</b> •		3.3(11')	P2	P2	P3	P3	P4	P5	P5	P7	P7	P8	P9	P10	P10
8. I	$(Z^{(r)})$	3.6 (12') 3.9 (13')		P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P7 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	P10 -
		4.2 (14')	P3	P3	P4	P5	P5	P7	P7	P7	P9	P10	P10	-	-
		4.5 (15') 4.8 (16')	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 -	-		-	-	-
		5.1 (17')	P3	P4	P5	P5	P7	P7	P8	-	-	-	-	-	-
		2.1 (7') 2.4 (8')	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P6 P7	P7 P7	P7 P7	P7 P8
		2.7 (9')	P1	P2	P2	P3	P3	P4	P4	P5	P5	P7	P7	P8	P10
		3.0 (10') 3.3 (11')	P2 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 P9	P10 P10	P10 P10
8.4	(28')	3.6 (12')	P2	P3	P3	P3	P4	P5	P7	P7	P7	P9	P10	P10	P10
		3.9 (13') 4.2 (14')	P2 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P7	P7 P7	P7 P8	P8 P10	P10 P10	P10 P10	P10 -	-
		4.5 (15')	P3	P3	P4	P5	P6	P7	P7	P8	-	-	-	-	-
		4.8 (16') 5.1 (17')	P3 P3	P4 P4	P5 P5	P5 P6	P7 P7	P7 P7	P8 P9	-	-		-	-	-
		2.1 (7')	P1	P1	P2	P2	P3	P3	P3	P4	P5	P6	P7	P7	P7
		2.4 (8') 2.7 (9')	P1 P1	P2 P2	P2 P2	P3 P3	P3 P3	P3 P4	P4 P5	P5 P5	P5 P6	P7 P7	P7 P7	P7 P9	P8 P10
		3.0 (10')	P2	P2	P3	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10
<b>9</b> 7	12011	3.3 (11') 3.6 (12')	P2 P2	P3 P3	P3 P3	P3 P4	P4 P4	P5 P5	P5 P7	P7 P7	P7 P8	P8 P9	P10 P10	P10 P10	P10
0.1	123)	3.6(12') 3.9(13')	P2 P2	P3	P3	P4	P4 P5	P6	P7	P7	P8	P9 P10	P10 P10	P10 P10	-
		4.2 (14')	P3	P3	P4	P5 P5	P5 P7	P7 P7	P7 P8	P8	P10	P10	P10	-	-
		4.5 (15') 4.8 (16')	P3 P3	P3 P4	P4 P5	P5 P5	P7 P7	P7 P7	P8 P8	P9 -	-	-	-	-	-
		5.1 (17')	P3	P4	P5	P7	P7	P8	-	-	-	-	-	-	-
		2.1 (7') 2.4 (8')	P1 P1	P1 P2	P2 P2	P2 P3	P3 P3	P3 P3	P4 P4	P4 P5	P6 P6	P6 P7	P7 P7	P7 P7	P8 P8
		2.7 (9')	P1	P2	P3	P3	P3	P4	P5	P5	P7	P7	P7	P10	P10
		3.0 (10') 3.3 (11')	P2 P2	P2 P3	P3 P3	P3 P3	P4 P4	P4 P5	P5 P5	P5 P7	P7 P7	P8 P8	P9 P10	P10 P10	P10 P10
9.0	(30')	3.6 (12')	P2	P3	P3	P4	P5	P5	P7	P7	P8	P10	P10	P10	-
		3.9 (13') 4.2 (14')	P3 P3	P3 P3	P3 P4	P5 P5	P5 P5	P7 P7	P7 P7	P8 P8	P9 P10	P10 P10	P10 P10	-	-
		4.5 (15')	P3	P4	P5	P5	P7	P7	P8	-	-	-	-	-	-
		4.8 (16')	P3	P4	P5	P5	P7	P7	P8	-	-	-	-	-	-

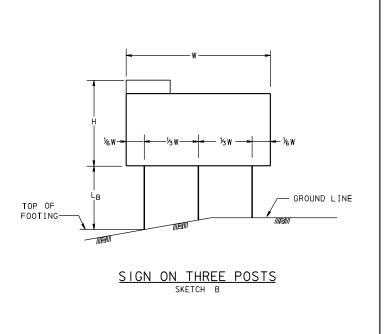
## LEGEND:

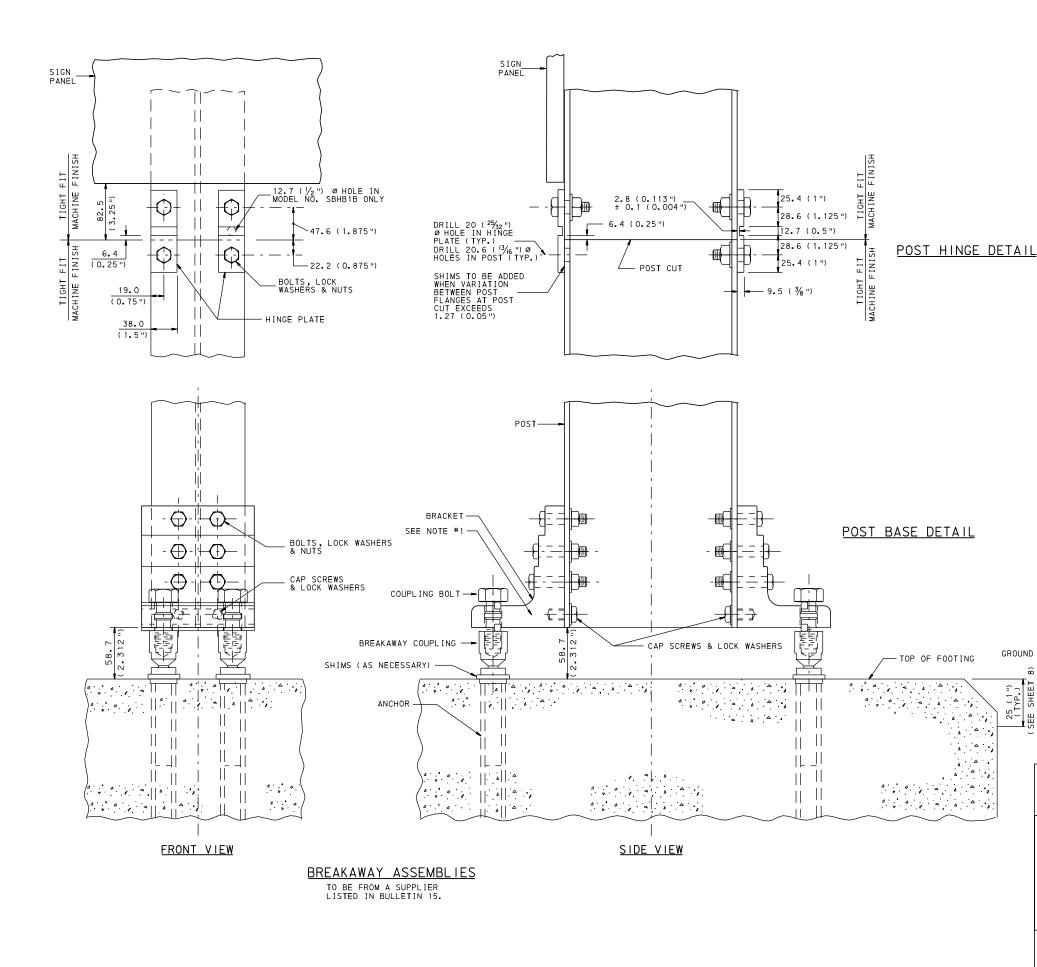
P2 P3 P4 P5 P6 P7 P8		W150 W150 W200 W200 W250 W250 W360	× × × × × × × × ×	18 22 27 31 33 39 45	(W6 × 9) (W6 × 12) (W6 × 15) (W8 × 18) (W8 × 21) (W10 × 22) (W10 × 26) (W14 × 36)
P8	=	W360	х	45	(W14 × 30)
					(W18 × 35) (W18 × 40)

POST-MOUNTED SIGNS, TYPE A									
POST SELECTION TABLE									
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 200 Mu C Rowe m. Chetu	SHT. 4 OF 8								
CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER OPERATIONS DIVISION	TC-8702A								

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering

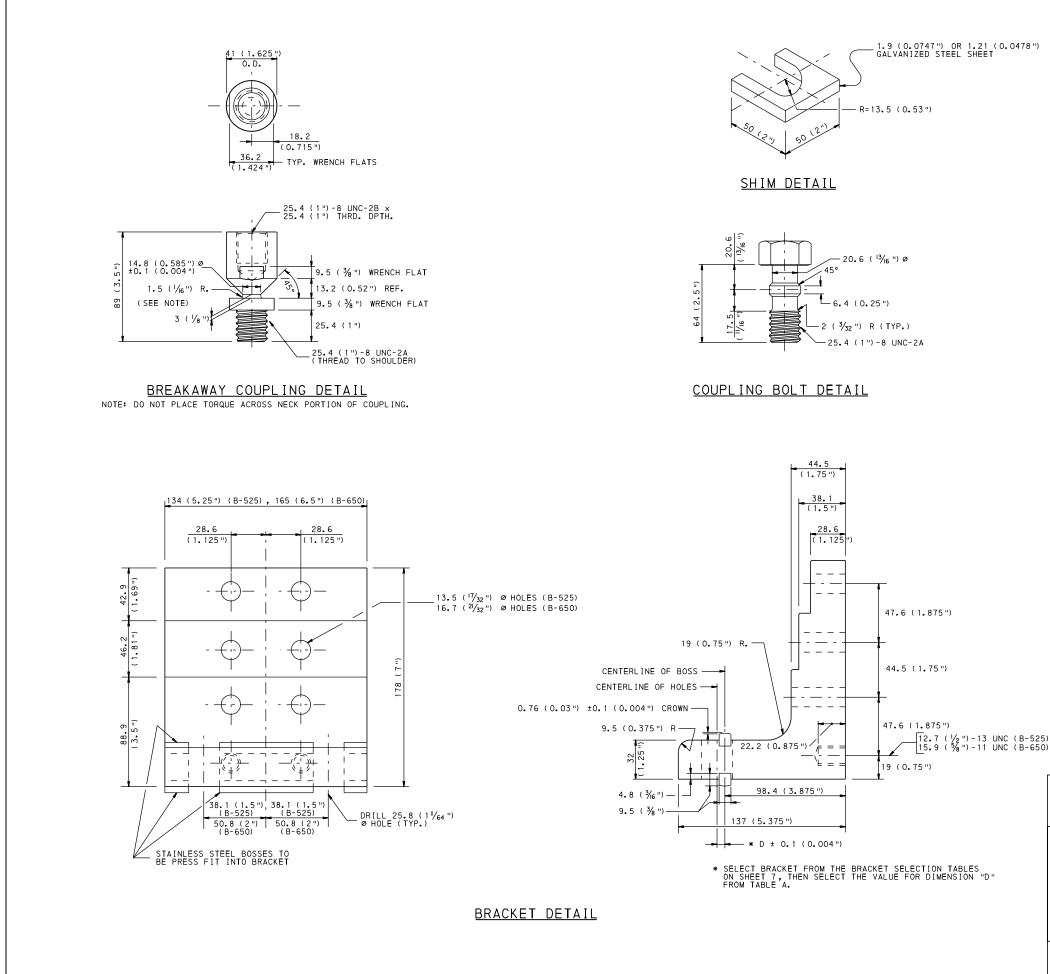
- 3. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- NOTES: 1. SEE SHEETS 2 AND 3 FOR SIGN POST SELECTION NOTES AND SIGNS ON TWO POSTS.





- 1. THE BRACKET NUMBER IS STAMPED ON THE BRACKET.
- 2. BOLT THE BRACKETS TO POST, THEN PLACE POST AND CONNECTED BRACKET TO BREAKAWAY COUPLING.
- FOR BRACKET, BREAKAWAY COUPLING, COUPLING BOLT, AND SHIM DETAILS, REFER TO SHEET 6.
- 4. FOR FOOTING AND ANCHOR DETAILS, REFER TO SHEET 8.
- 4. FOR FOUTING AND ANCHOR DETAILS, REFER TO SHEET O.
   5. ALL BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. FASTENERS, EXCEPT FOR SPECIAL BOLT AND COUPLING, ARE INSTALLED WITH LOCKWASHERS. FASTENERS, INCLUDING SPECIAL BOLT AND COUPLING, SHOULD BE SECURED AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES. DO NOT USE A PIPE WRENCH. USE LOWER WRENCH FLATS TO TIGHTEN COUPLINGS INTO ANCHORS. TIGHTEN SPECIAL BOLTS WHILE HOLDING COUPLINGS BY THE UPPER WRENCH FLATS WITH AN ADDITIONAL WRENCH TO PREVENT AN INDUCED TORQUE STRESS ACROSS THE NECKED PORTION OF THE COUPLING.
- 6. SHIMS BETWEEN THE COUPLINGS AND ANCHORS SHOULD BE LIMITED TO TWO SHIMS UNDERNEATH ANY ONE COUPLING AND THREE SHIMS UNDERNEATH ANY TWO COUPLINGS.
- 7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

GROUND SS (1 TYPL) (1 TYPL) (1 TYPL) (1 TYPL)	
· · · · · · · · · · · · · · · · · · ·	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering
	POST-MOUNTED SIGNS, TYPE A
	POST BASE AND HINGE DETAILS
	RECOMMENDED MAY 25, 2007 ALL CROW CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION RECOMMENDED MAY 25, 2007 M.C.L.L. CHIEF HIGHWAY ENGINEER CHIEF HIGHWAY ENGINEER CHIEF HIGHWAY ENGINEER CHIEF HIGHWAY ENGINEER



	UNTED SIGNS, TYPE A	
	Y COUPLING AN ET DETAILS	ND
RECOMMENDED MAY 25, 2007 RE	COMMENDED MAY 25, 2007	SHT. 6 OF 8
CHIÉF, TRAFFIC ENGINEERING AND CHI OPERATIONS DIVISION	IEF HIGHWAY ENGINEER	TC-8702A

## TABLE A

COMMONWEALTH OF PENNSYLVANIA

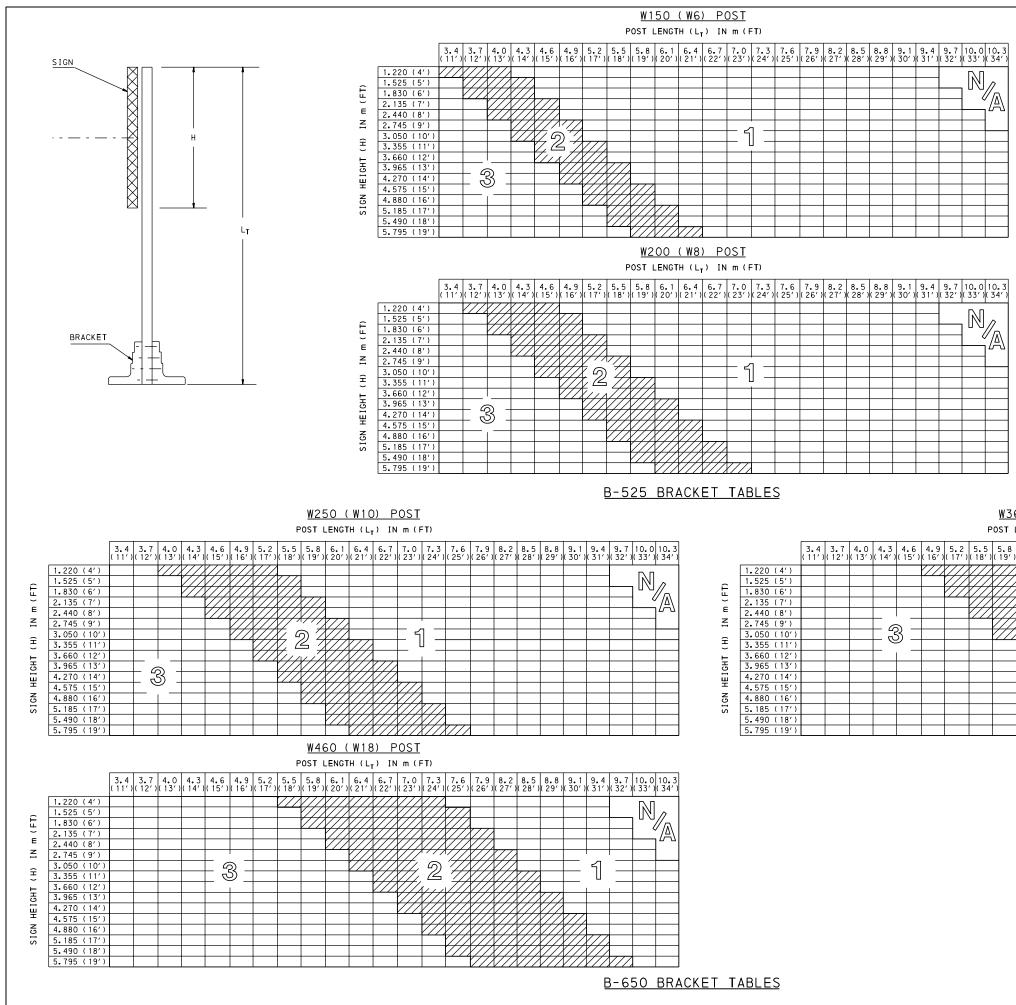
DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING

BRACKET NO.	D mm (INCHES)
1	2.5 (0.100")
2	3.8 (0.150")
3	5.1 (0.200")

EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

NOTES: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).



### NOTES FOR SELECTION OF BRACKET NUMBER:

1. FOR EACH POST, DETERMINE VALUES OF "L\_" AND "H" AS INDICATED IN SKETCH.

H = MAXIMUM HEIGHT OF SIGN IN m (FT). L\_T = DISTANCE BETWEEN THE TOP OF FOOTING AND THE TOP OF SIGN IN m (FT) FOR EACH POST.

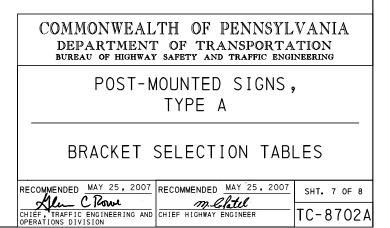
- 2. ENTER TABLE WITH "H" AND "LT" TO SELECT THE REQUIRED BRACKET FOR THAT POST.
- 3. FOR SIZES OF "H" AND "LT" BETWEEN THOSE VALUES ON THE TABLE, USE THE NEXT HIGHEST VALUE.

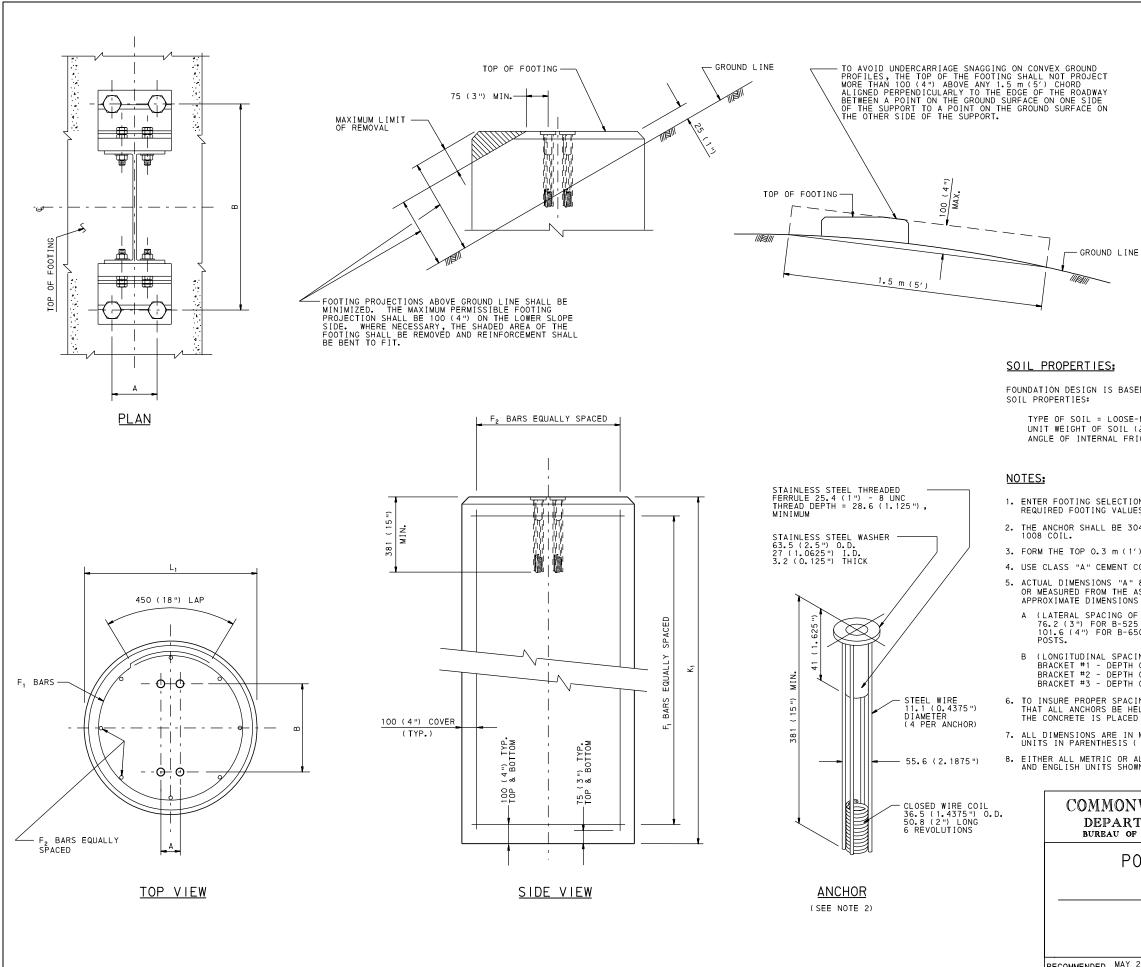
### NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- 2. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

### W360 (W14) POST POST LENGTH (L<sub>T</sub>) IN m (FT)

5.8 (19')	6.1 (20′)	6.4 (21′)	6.7 (22′)	7.0 (23')	7.3 (24')	7.6 (25′)	7.9 (26′)	8.2 (27′)	8.5 (28')	8.8 (29′)	9.1 (30′)	9.4 (31′)	9.7 (32′)	10.0 10.3 (331)(341)
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	$\square$		VI4						-					
	$\square$		24	$\square$					Εĺ					
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1						<u> </u>	///		V//					





### METRIC UNITS REINE. REINE. DEPTH POST L,\* STEEL STEEL K<sub>1</sub> (m) SIZE (m) F<sub>1</sub> $F_2$ W150 2.30 8-#13 8-#22 0.75 W200 2.60 9-#13 8-#22 W250 0.90 2.75 10-#13 10-#22 W360 1.05 2.90 10-#13 12-#22 W460

### ENGLISH UNITS

POST SIZE	L <sub>1</sub> * (FT)	DEPTH K <sub>1</sub> (FT)	REINF. STEEL F <sub>1</sub>	REINF. STEEL F <sub>2</sub>
W6	2.5	7.50	8-#4	8-#7
W8	2.5	8.50	9-#4	8-#7
W10	3.0	9.00	10-#4	10-#7
W14	5.0	5.00	10-#4	10-#1
W18	3.5	9.50	10-#4	12-#7

\* DIAMETER IF CIRCULAR OR MINIMUM SIDE IF SQUARE OR RECTANGULAR

### FOOTING SELECTION TABLE

FOUNDATION DESIGN IS BASED ON BROMS' METHOD USING THE FOLLOWING SOIL PROPERTIES:

TYPE OF SOIL = LOOSE-MEDIUM SAND UNIT WEIGHT OF SOIL () = 18.85 kN/m (120 PCF) ANGLE OF INTERNAL FRICTION ( Ø) = 25°.

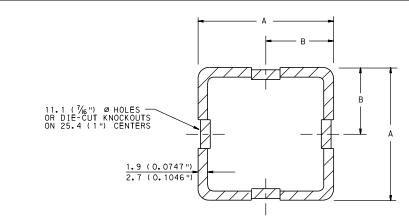
- 1. ENTER FOOTING SELECTION TABLE WITH REQUIRED POST SIZE AND FIND REQUIRED FOOTING VALUES AS SHOWN IN DETAILS.
- 2. THE ANCHOR SHALL BE 304 STAINLESS STEEL WITH 1045 STEEL ROD AND 1008 COIL.
- 3. FORM THE TOP 0.3 m (1') OF THE FOOTING.
- 4. USE CLASS "A" CEMENT CONCRETE IN ALL FOOTINGS.
- ACTUAL DIMENSIONS "A" & "B" SHOULD BE OBTAINED FROM THE MANUFACTURER OR MEASURED FROM THE ASSEMBLED BRACKETS PRIOR TO PLACEMENT OF ANCHORS. APPROXIMATE DIMENSIONS ARE AS FOLLOWS:
- A (LATERAL SPACING OF ANCHORS) 76.2 (3") FOR B-525 USED ON W150 (W6) & W200 (W8) POSTS. 101.6 (4") FOR B-650 USED ON W250 (W10) , W360 (W14) & W460 (W18) POSTS.
- B (LONGITUDINAL SPACING OF ANCHORS) BRACKET #1 DEPTH OF POST SECTION PLUS 201.6 (7<sup>15</sup>/<sub>16</sub>"). BRACKET #2 DEPTH OF POST SECTION PLUS 204.8 (8<sup>1</sup>/<sub>16</sub>"). BRACKET #3 DEPTH OF POST SECTION PLUS 206.4 (8<sup>1</sup>/<sub>8</sub>").
- 6. TO INSURE PROPER SPACING AND ALIGNMENT OF ANCHORS, IT IS RECOMMENDED THAT ALL ANCHORS BE HELD IN PLACE BY A RIGID MACHINED TEMPLATE WHILE THE CONCRETE IS PLACED AND CURED.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- 8. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING

## POST-MOUNTED SIGNS, TYPE A

# FOOTING DETAILS

		RECOMMENDED MAY		SHT. 8	0F 8
Allen C. Rowe		m.l.latu	1.		
CHIEF, TRAFFIC ENGINEER	ING AND	CHIEF HIGHWAY ENGIN	ER	ITC-87	′∩2∆
OPERATIONS DIVISION		1		10 01	UL A



### METRIC UNITS (mm)

[	S	IGN	POST	T I	AN	ICHOF	R P0	ST	ANCI	HOR :	SLEE	VE *	SPL	ICE	SLEE	EVE
	SIZE	SIZE DIMENSION THIC		тніск.	CK. SIZE DIMENSION		тніск.	SIZE DIMENSION THICK		тніск.	. SIZE DIMENSION		тніск.			
	5122	Α	В	In rok.	5120	A	В	In rok.	5120	A	В	THILER.	5122	A	В	In text
	44.5	44.5	22.2	1.9	50.8	50.8	25.4	2.7	57.2	57.2	28.6	2.7	38.1	38.1	19.0	1.9
	50.8	50.8	25.4	1.9	57.2	57.2	28.6	2.7	63.5	63.5	31.8	2.7	44.5	44.5	22.2	1.9
[	57.2	57.2	28.6	1.9	63.5	63.5	31.8	2.7	76.2	76.2	38.1	4.8	50.8	50.8	25.4	1.9

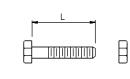
### ENGLISH UNITS (INCHES)

[	S	IGN	POST		AN	CHOR	POS	Т	ANC	HOR S	ANCHOR SLEEVE *			SPLICE SLEEVE		
	SIZE DIMENSION THICK		титек	ST7E	DIMEN	ISION	тніск.	SIZE DIMENSION		NSION	тытск	SIZE	DIMENSION		TUTOK	
	JIZE	A	В		SIZE	Α	В	Infort.	SILE	Α	В	Infort.	SILE	Α	В	THICK.
[	1.75"	1.75"	0.875"	0.0747"	2.00"	2.00"	1.000"	0.1046"	2.25"	2.25"	1.125"	0.1046"	1.50"	1.50"	0.750"	0.0747"
[	2.00"	2.00"	1.000"	0.0747"	2.25"	2.25"	1.125"	0.1046"	2.50"	2.50"	1.250"	0.1046"	1.75"	1.75"	0.875"	0.0747"
[	2.25"	2.25 "	1.125"	0.0747"	2.50"	2.50"	1.250"	0.1046"	3.00"	3.00"	1.500"	0.1875"	2.00"	2.00"	1.000"	0.0747"

\* ONLY REQUIRED FOR INSTALLATIONS IN CONCRETE.

### <u>SQUARE STEEL POSTS</u> SYSTEM A

2.7 mm (0.1046") AND 1.9 mm (0.0747") - 415 MPa (60 KSI)



METR	RIC UNITS	ENGL I	SH UNITS
SIGN POST SIZE (mm)	DIMENSION L (mm)	SIGN POST SIZE (INCHES)	DIMENSION L (INCHES)
44.5	75	1.75	3.0
50.8	15	2.00	5.0
57.2	90	2.25	3.5

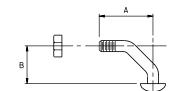


5 (3/6") NOMINAL GRIP

20 ( <sup>3</sup>/<sub>4</sub> '')

<u>10 (3/2") DRIVE RIVET</u>

CADMIUM PLATED STEEL, ZINC PLATED STEEL OR ALUMINUM



METE	RIC U	NITS	ENGL	ISH U	INITS
SIGN POST SIZE	13MIC n)	NSION nm)	SIGN POST SIZE	DIMEN (INC	NSION (HES)
(mm)	А	В	(INCHES)	Α	В
44.5	34,13	24.61	1.75	1.343	0.969
50.8	54.15	24.01	2.00	1. 545	0.969
57.2	39.69	30.16	2.25	1.562	1.188

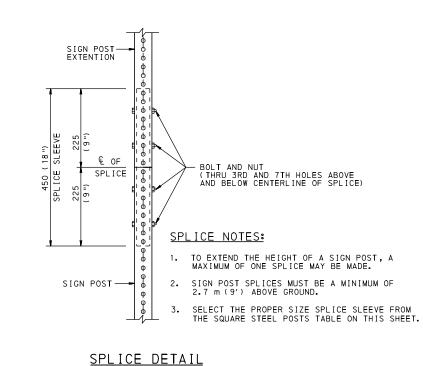
### M8 x 1.25 (5/16"- 18 UNC) CORNER BOLTS & NUTS CADMIUM PLATED STEEL OR ALUMINUM

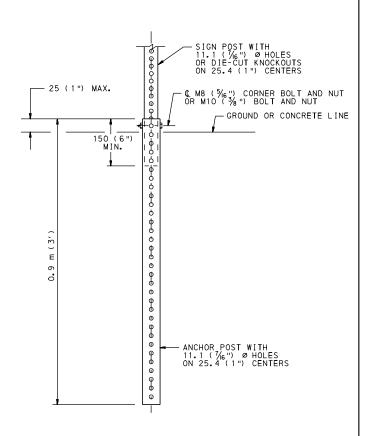
### INSTALLATION INSTRUCTIONS:

- 1. DETERMINE THE PROPER SIZE AND NUMBER OF SIGN POSTS FROM THE APPROPRIATE GRAPH ON SHEET 2 OF 9.
- 2. PUNCH OUT APPROPRIATE KNOCKOUTS AND ATTACH THE SIGN.
- DETERMINE THE PROPER SIZE ANCHOR POST FROM THE SQUARE STEEL POSTS TABLE ON THIS SHEET.
- DRIVE THE ANCHOR POST INTO THE GROUND, USING THE APPROPRIATE SIZE DRIVE CAP, UNTIL ONLY ONE HOLE REMAINS ABOVE THE GROUND OR FINISHED ELEVATION OF THE CONCRETE.
- 5. PUNCH OUT THE SIXTH KNOCKOUTS FROM THE BOTTOM OF THE SIGN POST.
- 6. SLIDE A MINIMUM OF 150 mm (6") OF THE SIGN POST INTO THE ANCHOR POST.
- 7. ATTACH THE SIGN POST TO THE ANCHOR POST WITH ONE M8 ( $5\!\!/_6$ ") CORNER BOLT AND NUT (OR ALTERNATELY ONE M10 ( $3\!\!/_6$ ") BOLT AND NUT) THROUGH THE TOP HOLE OF THE ANCHOR POST.
- 8. TIGHTEN THE BOLT AND NUT BY THE TURN-OF-NUT METHOD. BRING NUT TO A SNUG CONDITION TO ENSURE THAT ALL PARTS ARE BROUGHT TOGETHER INTO FULL CONTACT WITH EACH OTHER, THEN TIGHTEN AN ADDITIONAL <sup>1</sup>/<sub>2</sub> TURN.

### INSTALLATION IN CONCRETE:

INSTALL AS NOTED ABOVE, BUT PLACE A 450 (18") LONG ANCHOR SLEEVE OUTSIDE THE ANCHOR POST SO THAT THE TOPS OF THE ANCHOR POST AND ANCHOR SLEEVE ARE EVEN. SELECT THE PROPER SIZE ANCHOR SLEEVE FROM THE SQUARE STEEL POSTS TABLE ON THIS SHEET.





### INSTALLATION DETAIL

### NOTES:

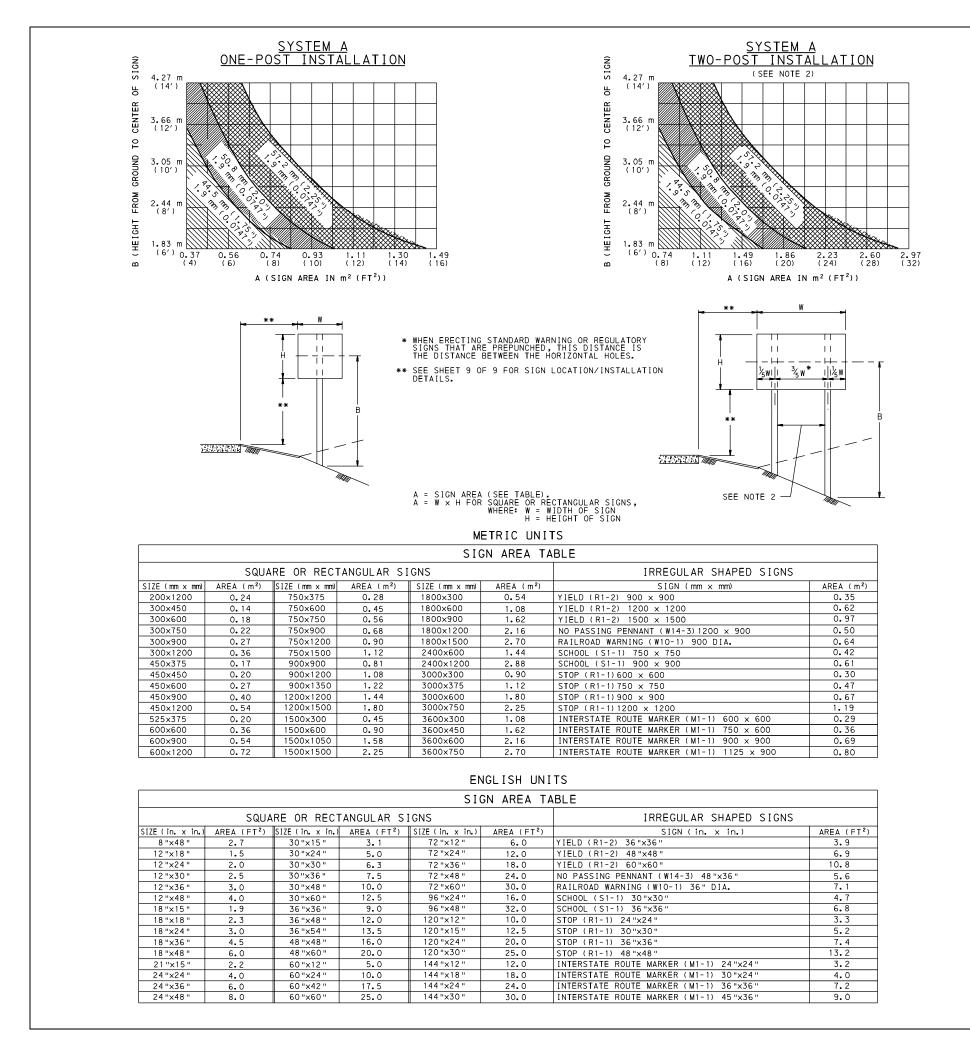
- MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PUB. 408.
- 2. SIGN POSTS AND SPLICE SLEEVES SHALL HAVE 11.1 mm ( $\frac{7}{6}$ ") DIAMETER HOLES OR DIE-CUT KNOCKOUTS ON 25.4 mm (1") CENTERS ON ALL FOUR SIDES. ANCHOR POSTS AND ANCHOR SLEEVES SHALL HAVE 11.1 mm ( $\frac{7}{6}$ ") DIAMETER HOLES ON 25.4 mm (1") CENTERS ON ALL FOUR SIDES.
- 3. BOLTS AND NUTS SHALL BE ASTM A 307, GRADE B.
- 4. DRIVE RIVETS MAY BE USED TO FASTEN SIGN BLANKS TO THE SIGN POST.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering

## POST-MOUNTED SIGNS, TYPE B

STEEL SQUARE POSTS (SYSTEM A) ERECTION DETAILS

RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007 m. Clatel	SHT. 1 OF 9
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8702B



POST-M	POST-MOUNTED SIGNS, TYPE B									
STEEL SQUARE POSTS (SYSTEM A) SELECTION TABLES										
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007 SHT. 2 OF 9										
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8702B								

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING

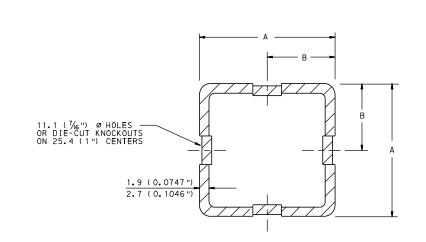
- 4. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

NOTES:

TO DETERMINE THE POST SIZE, ENTER THE GRAPH WITH THE VALUES OF A AND B. THE SHADED AREA INDICATES THE APPROPRIATE POST SIZE REQUIRED.

2. 57.2 mm (2.25") POSTS SHALL HAVE 2.1 m (7') CLEARANCE BETWEEN EACH OTHER, MEASURED FROM INSIDE POST EDGE TO INSIDE POST EDGE, WHEN USED IN TWO-POST INSTALLATIONS. 50.8 mm (2") AND 44.5 mm (1.75") POSTS MAY HAVE LESS THAN 2.1 m (7') CLEARANCE BETWEEN EACH OTHER WHEN USED IN TWO-POST INSTALLATIONS.

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).



### METRIC UNITS (mm)

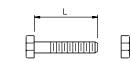
SIGN POST ANCHOR POST							ST	ANC	HOR	SLEE	VE *	SPLICE SLEEVE			
SIZE DIMENSION THICK. SIZ				SIZE	DIMEN	ISION B	тніск.	SIZE DIMENSION THICK.			SIZE DIMENSION THICK.			THICK.	
44.5	44.5	22.2	1.9	50.8	50.8	25.4	2.7	57.2	57.2	28.6	2.7	38.1	38.1	19.0	1.9
50.8	50.8	25.4	1.9	57.2	57.2	28.6	2.7	63.5	63.5	31.8	2.7	44.5	44.5	22.2	1.9

### ENGLISH UNITS (INCHES)

SIGN POST				AN	CHOF	POS	Г	ANCH	IOR	SLEEV	/E *	SPL	ICE	SLEEV	/E
SIZE	DIME	NSION	тніск.	SIZE	DIMEN	ISION	тніск.	SIZE	DIME	INSION	тніск.	SIZE	DIME	DIMENSION A B THICK	титск
JIZL	A	В	THICK.	JIZE	Α	В	THICK.	5120	A	В	THICK.	5120	A		Infick.
1.75"	1.75"	0.875"	0.0747"	2.00"	2.00"	1.000"	0.1046"	2.25"	2.25"	1.125"	0.1046"	1.50"	1.50"	0.750"	0.0747"
2.00"	2.00"	1.000"	0.0747"	2.25"	2.25"	1.125"	0.1046"	2.50"	2.50"	1.250"	0.1046"	1.75"	1.75"	0.875"	0.0747"

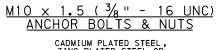
\* REQUIRED FOR ALL POST INSTALLATIONS

### SQUARE STEEL POSTS <u>SYSTEM C</u> 1.9 mm (0.0747") - 415 MPa (60 KSI) 2.7 mm (0.1046") - 230 MPa (33 KSI)

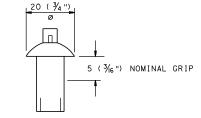


### METRIC UNITS ENGLISH UNITS

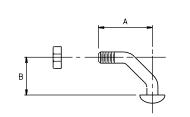
SIGN POST SIZE (mm)	DIMENSION L (mm)	SIGN POST SIZE (INCHES)	DIMENSION (INCHES)
44.5	75	1.75	3.0
50.8	15	2.00	5.0
57.2	90	2.25	3.5
63.5	50	2.50	5.5











METF	RIC U	NITS		ENGL I	SH U	NITS	
SIGN POST SIZE	MIND DIMEN (n			SIGN POST SIZE		ENSION NCHES)	
(mm)	А	В		(INCHES)	А	В	
44.5	34.13	24.61		1.75	1.343	0.969	
50.8	54.15	24.01		2.00	1. 545		
57.2	39.69	30.16		2.25	1.562	1.188	
63.5	23.63	30.10		2.50	1. 302	1.100	

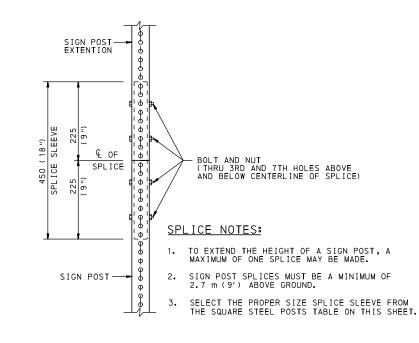


### INSTALLATION INSTRUCTIONS:

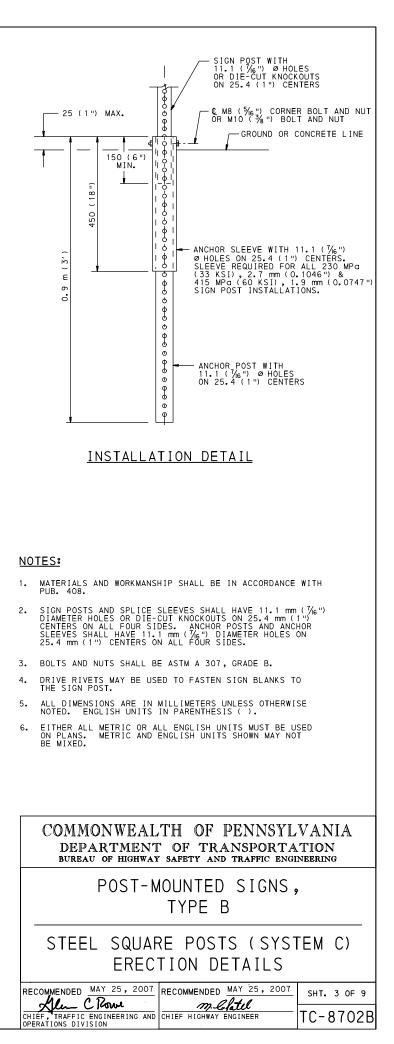
- DETERMINE THE PROPER SIZE AND NUMBER OF SIGN POSTS FROM THE APPROPRIATE GRAPH ON SHEET 4 OF 9. 1.
- DETERMINE THE PROPER SIZE ANCHOR POST AND ANCHOR SLEEVE FROM THE SQUARE STEEL POSTS TABLE ON THIS SHEET. 2.
- DRIVE THE ANCHOR POST AND ANCHOR SLEEVE INTO THE GROUND SIMULTANEOUSLY, USING THE APPROPRIATE SIZE DRIVE CAP, UNTIL ONLY ONE HOLE REMAINS ABOVE THE GROUND OR FINISHED 3. ELEVATION OF THE CONCRETE.
- SLIDE A MINIMUM OF 150 mm (6") OF THE SIGN POST INTO THE ANCHOR POST.
- ATTACH THE SIGN POST TO THE ANCHOR POST AND SLEEVE WITH ONE M8 ( $\frac{5}{16}$ ") CORNER BOLT AND NUT (OR ALTERNATELY ONE M10 ( $\frac{3}{8}$ ") BOLT AND NUT) THROUGH THE TOP HOLE OF THE ANCHOR POST AND SLEEVE. 5.
- 6. TIGHTEN THE BOLT AND NUT BY THE TURN-OF-NUT METHOD. BRING NUT TO A SNUG CONDITION TO ENSURE THAT ALL PARTS ARE BROUGHT TOGETHER INTO FULL CONTACT WITH EACH OTHER, THEN TIGHTEN AN ADDITIONAL ½ TURN.

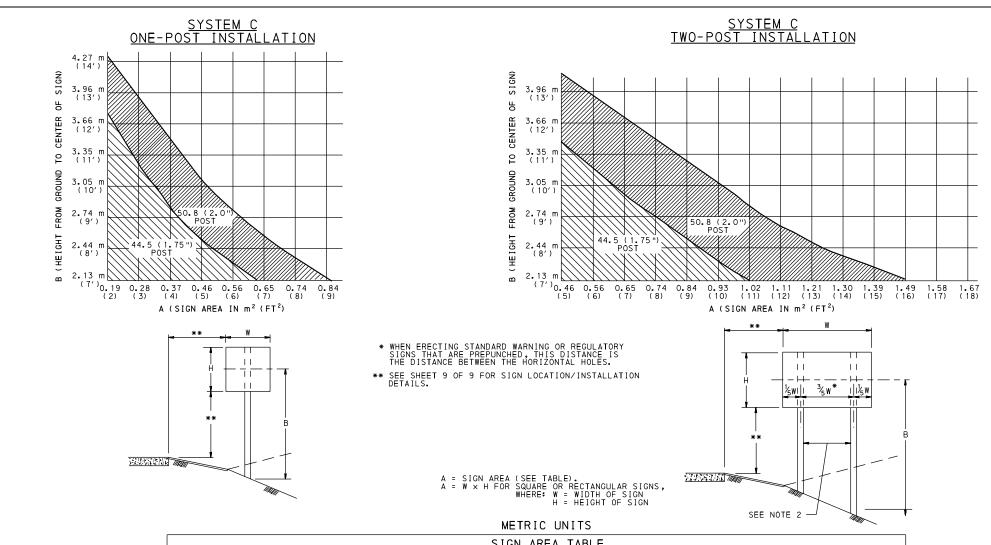
### INSTALLATION IN CONCRETE:

INSTALL AS NOTED ABOVE.



### SPLICE DETAIL





	SIGN AREA TABLE							
	SQUA	RE OR RECT	ANGULAR SI	IRREGULAR SHAPED SIGNS				
SIZE (mm x mm)	AREA (m²)	SIZE (mm x mm)	AREA (m²)	SIZE (mm x mm)	AREA (m²)	SIGN (mm × mm)	AREA (m <sup>2</sup> )	
200x1200	0.24	750x375	0.28	1800×300	0.54	YIELD (R1-2) 900 × 900	0.35	
300×450	0.14	750x600	0.45	1800×600	1.08	YIELD (R1-2) 1200 × 1200	0.62	
300×600	0.18	750x750	0.56	1800×900	1.62	YIELD (R1-2) 1500 x 1500	0.97	
300x750	0.22	750x900	0.68	1800x1200	2.16	NO PASSING PENNANT (W14-3)1200 × 900	0.50	
300×900	0.27	750x1200	0.90	1800x1500	2.70	RAILROAD WARNING (W10-1) 900 DIA.	0.64	
300x1200	0.36	750x1500	1.12	2400×600	1.44	SCHOOL (S1-1) 750 x 750	0.42	
450x375	0.17	900×900	0.81	2400×1200	2.88	SCHOOL (S1-1) 900 × 900	0.61	
450×450	0.20	900×1200	1.08	3000×300	0.90	STOP (R1-1)600 × 600	0.30	
450×600	0.27	900x1350	1.22	3000×375	1.12	STOP (R1-1)750 x 750	0.47	
450×900	0.40	1200×1200	1.44	3000×600	1.80	STOP (R1-1)900 × 900	0.67	
450x1200	0.54	1200×1500	1.80	3000×750	2.25	STOP (R1-1) 1200 x 1200	1.19	
525x375	0.20	1500x300	0.45	3600x300	1.08	INTERSTATE ROUTE MARKER (M1-1) 600 × 600	0.29	
600×600	0.36	1500×600	0.90	3600x450	1.62	INTERSTATE ROUTE MARKER (M1-1) 750 × 600	0.36	
600×900	0.54	1500×1050	1.58	3600×600	2.16	INTERSTATE ROUTE MARKER (M1-1) 900 × 900	0.69	
600x1200	0.72	1500×1500	2.25	3600x750	2.70	INTERSTATE ROUTE MARKER (M1-1) 1125 × 900	0.80	

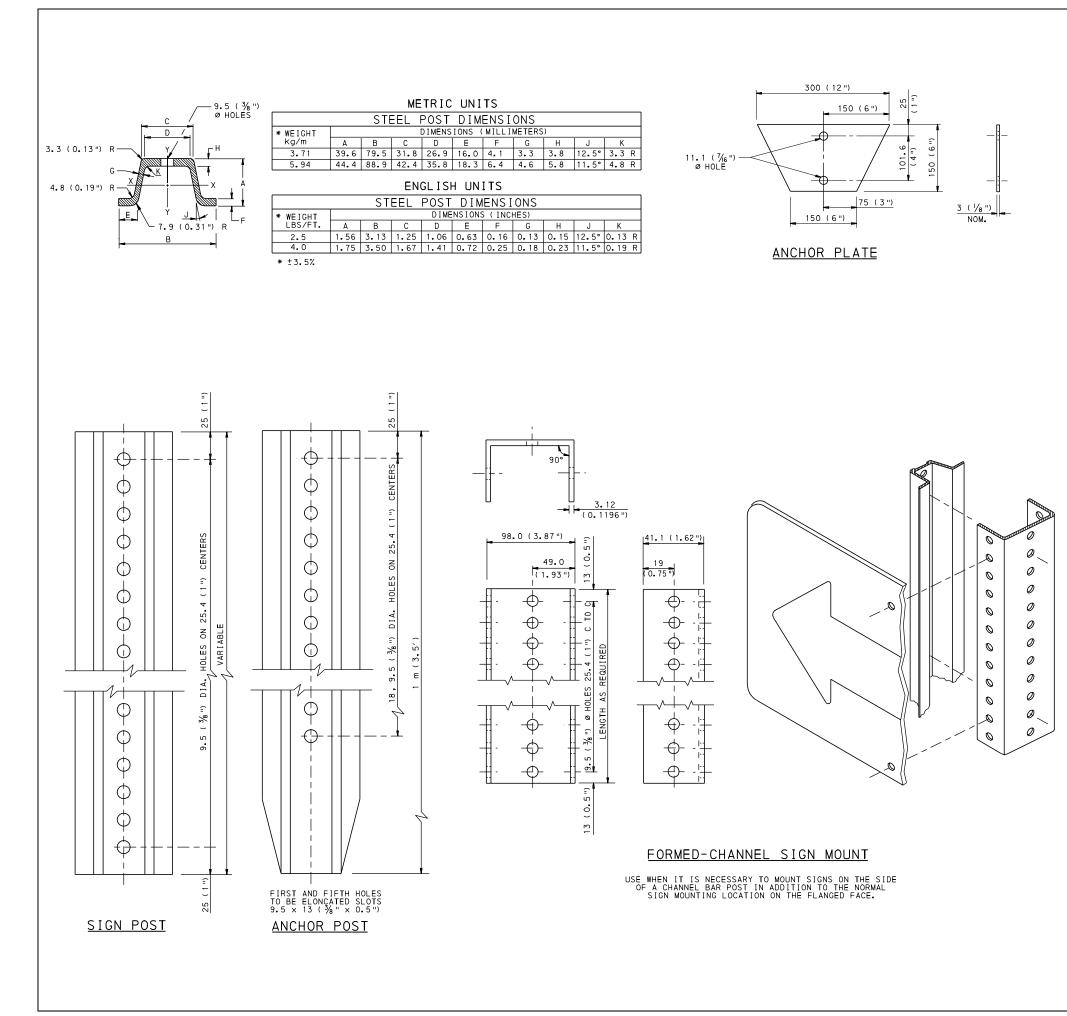
	SIGN AREA TABLE						
	SQUA	RE OR RECT	ANGULAR S	IRREGULAR SHAPED SIGNS			
SIZE (in. x in.)	AREA (FT <sup>2</sup> )	SIZE (in. x in.)	AREA (FT <sup>2</sup> )	SIZE (in. x in.)	AREA (FT <sup>2</sup> )	SIGN (in. x in.)	AREA (FT <sup>2</sup> )
8 "×48 "	2.7	30"×15"	3.1	72 "x12 "	6.0	YIELD (R1-2) 36"x36"	3.9
12 "x18 "	1.5	30"x24"	5.0	72 "x24 "	12.0	YIELD (R1-2) 48"×48"	6.9
12 "x24 "	2.0	30"×30"	6.3	72 "×36 "	18.0	YIELD (R1-2) 60"×60"	10.8
12 "x30 "	2.5	30"x36"	7.5	72 "×48 "	24.0	NO PASSING PENNANT (W14-3) 48"×36"	5.6
12"x36"	3.0	30 "x48 "	10.0	72 "x60 "	30.0	RAILROAD WARNING (W10-1) 36" DIA.	7.1
12 "×48 "	4.0	30"×60"	12.5	96"x24"	16.0	SCHOOL (S1-1) 30"x30"	4.7
18 "×15 "	1.9	36 "×36 "	9.0	96"×48"	32.0	SCHOOL (S1-1) 36"x36"	6.8
18 "x18 "	2.3	36 "×48 "	12.0	120"x12"	10.0	STOP (R1-1) 24"x24"	3.3
18 "x24 "	3.0	36 "x54 "	13.5	120"x15"	12.5	STOP (R1-1) 30"×30"	5.2
18 "×36 "	4.5	48 "x48 "	16.0	120"x24"	20.0	STOP (R1-1) 36"x36"	7.4
18 "×48 "	6.0	48 "x60 "	20.0	120"x30"	25.0	STOP (R1-1) 48 "x48 "	13.2
21 "x15 "	2.2	60"x12"	5.0	144 "×12 "	12.0	INTERSTATE ROUTE MARKER (M1-1) 24"×24"	3.2
24 "x24 "	4.0	60"×24"	10.0	144 "×18 "	18.0	INTERSTATE ROUTE MARKER (M1-1) 30"×24"	4.0
24 "x36 "	6.0	60 "x42 "	17.5	144 "x24 "	24.0	INTERSTATE ROUTE MARKER (M1-1) 36"×36"	7.2
24 "×48 "	8.0	60"x60"	25.0	144"×30"	30.0	INTERSTATE ROUTE MARKER (M1-1) 45"×36"	9.0

	BUREAU OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING							
	POST-MOUNTED SIGNS, TYPE B							
	STEEL SQUARE POSTS (SYSTEM C) SELECTION TABLES							
СН	RECOMMENDED MAY 25, 2007 RECOMMENDED MAY CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEERING AND CHIEF HIGHWAY ENGINEERING AND	d						

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

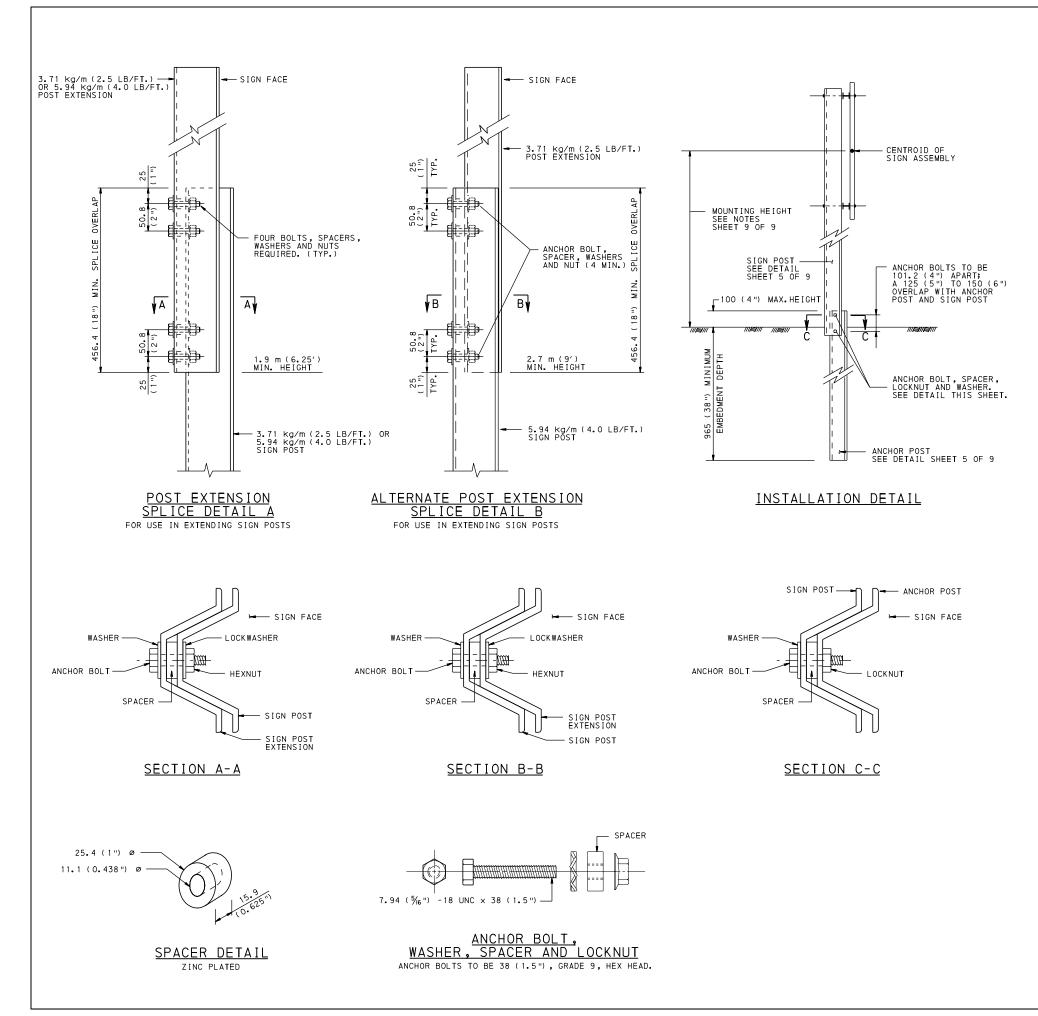
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.
- 3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).

- REQUIRED. 2. 50.8 mm (2") AND 44.5 mm (1.75") POSTS MAY HAVE LESS THAN 2.1 m (7') CLEARANCE BETWEEN EACH OTHER WHEN USED IN TWO-POST INSTALLATIONS.
- TO DETERMINE THE POST SIZE, ENTER THE GRAPH WITH THE VALUES OF A AND B. THE SHADED AREA INDICATES THE APPROPRIATE POST SIZE REQUIRED.



- 1. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PUB.408.
- 2. FORMED-CHANNEL SIGN MOUNTS SHALL BE MILD STEEL.
- 3. ANCHOR BOLTS SHALL BE 7.94 mm ( $\frac{5}{16}$ ") 18 UNC  $\times$  38 (1.5") FULLY THREADED, GRADE 9 HEX HEAD. A FLANGED ANCHOR BOLT MAY BE SUBSTITUTED FOR THE STANDARD ANCHOR BOLT AND FLAT WASHER.
- 4. WASHERS SHALL BE 7.94 mm (5/6") GRADE 9 PLATED.
- 5. LOCKNUTS SHALL BE 7.94 mm (5/6") 18 UNC THREADS, HEX HEADED.
- 6. ANY OTHER DEPARTMENT APPROVED BREAKAWAY CONNECTION APPROVED FOR THIS KIND OF POST MAY BE SUBSTITUTED FOR THE UNIVERSAL SPACER.
- 7. SEE SHEET 6 OF 9 FOR SPACER AND ANCHOR BOLT DETAILS.
- 8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- 9. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering						
	POST-MOUNTED SIGNS, TYPE B						
-	CHANNEL BAR POSTS (ROLLED STEEL RAILS) MATERIAL DETAILS						
REC	COMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 5 OF 9				
CH II OPEI	EF, TRAFFIC ENGINEERING AND RATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8702B				



### ANCHOR SPLICE INSTALLATION INSTRUCTIONS:

- DETERMINE THE PROPER SIZE SIGN POST AND ANCHOR POST FROM THE APPROPRIATE GRAPH ON SHEET 7 OF 9. USE 3.71 kg/m (2.5 LB/FT.) ANCHOR POSTS WITH 3.71 kg/m (2.5 LB/FT.) SIGN POSTS AND 5.94 kg/m (4.0 LB/FT.) ANCHOR POSTS WITH 5.94 kg/m (4.0 LB/FT.) SIGN POSTS.
- 2. REMOVE A SHOVEL OF SOIL AT THE POST LOCATION TO ALLOW FOR FINAL ATTACHMENT OF THE SIGN POST TO THE ANCHOR POST.
- 3. DRIVE ANCHOR POST WITH A DRIVE CAP TO WITHIN APPROXIMATELY 300 mm (12") ABOVE GROUND LEVEL. PLACE ONE BOLT AND WASHER IN FIFTH HOLE FROM THE END OF THE EXPOSED ANCHOR POST. SECURELY TIGHTEN SPACER ONTO BOLT.
- 4. DRIVE ANCHOR POST TO 100 mm (4") ABOVE GROUND LEVEL. PLACE REMAINING BOLT AND WASHER IN FIRST HOLE FROM THE END OF POST AND SECURELY TIGHTEN SPACER ONTO BOLT. (BOLTS 101.6 mm (4") APART).
- 5. NEST TOP SIGN POST OVER PROTRUDING ANCHOR POST BOLTS THROUGH FIRST AND FIFTH HOLES OF TOP SIGN POST. THIS WILL RESULT IN A 125 mm (5") TO 150 mm (6") OVERLAP.
- 6. PLACE A LOCKNUT ON EACH BOLT (A STANDARD LOCKWASHER AND NUT MAY BE USED IN LIEU OF THE LOCKNUT). TIGHTEN BOLTS AND NUTS BY TURN-OF-NUT METHOD. BRING NUT TO A SNUG TIGHT CONDITION TO ENSURE THAT ALL PARTS ARE BROUGHT TOGETHER INTO FULL CONTACT WITH EACH OTHER, THEN TIGHTEN AN ADDITIONAL 1/2 TURN.
- 7. RESTORE SOIL AROUND THE ANCHOR POST.

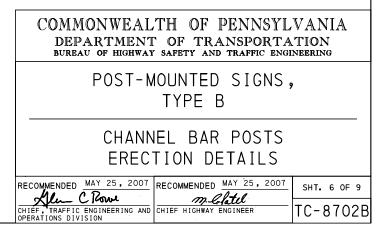
### INSTALLATION IN SOFT SOIL:

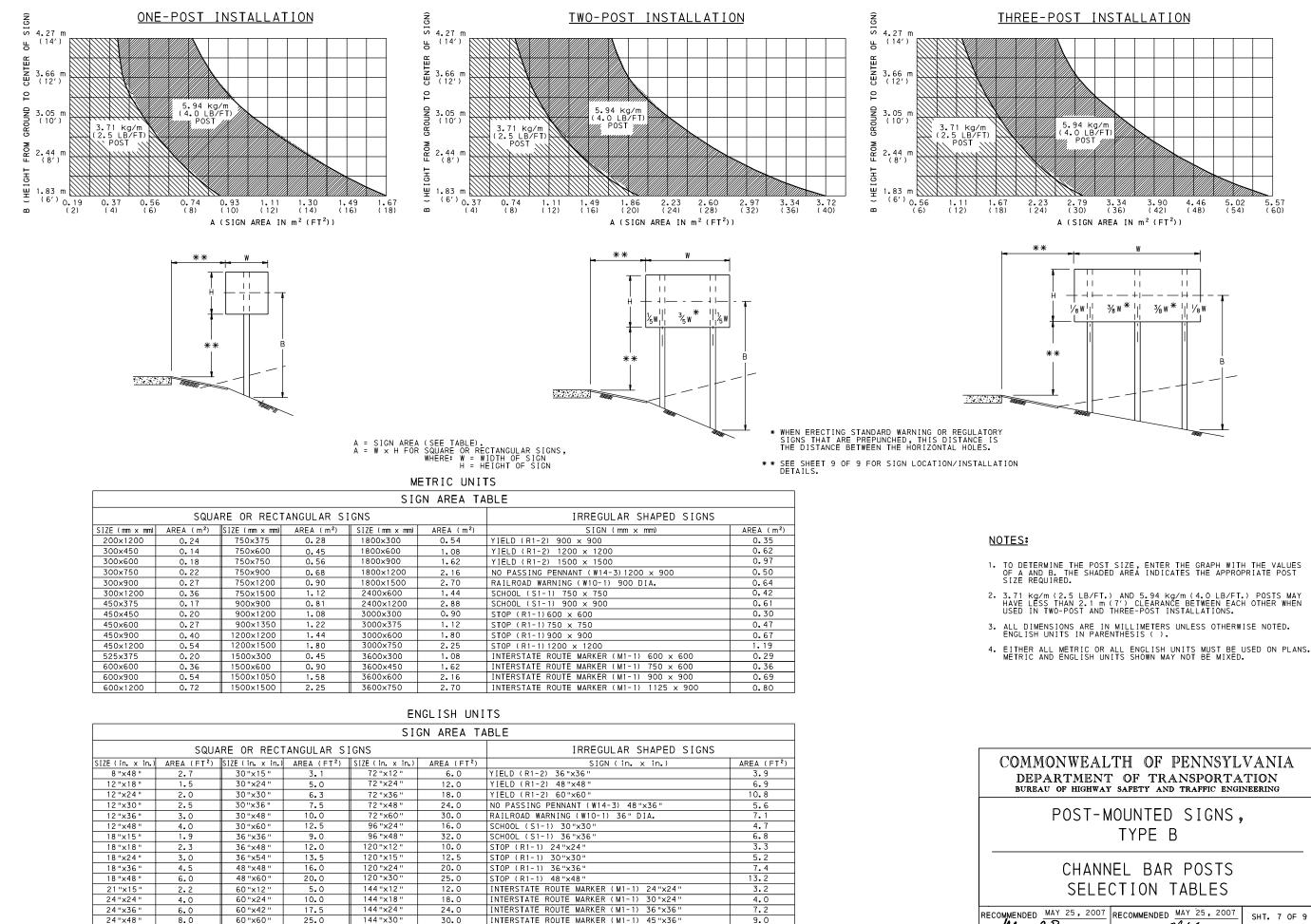
 USE THE ANCHOR PLATE IN AREAS WITH SOFT SOIL. BOLT THE TOP ANCHOR BOLT 25.4 mm (1") BELOW THE BOTTOM ANCHOR POST BOLT, (6 TO 7 HOLES FROM THE END OF THE ANCHOR POST).

### POST EXTENSION SPLICE NOTES:

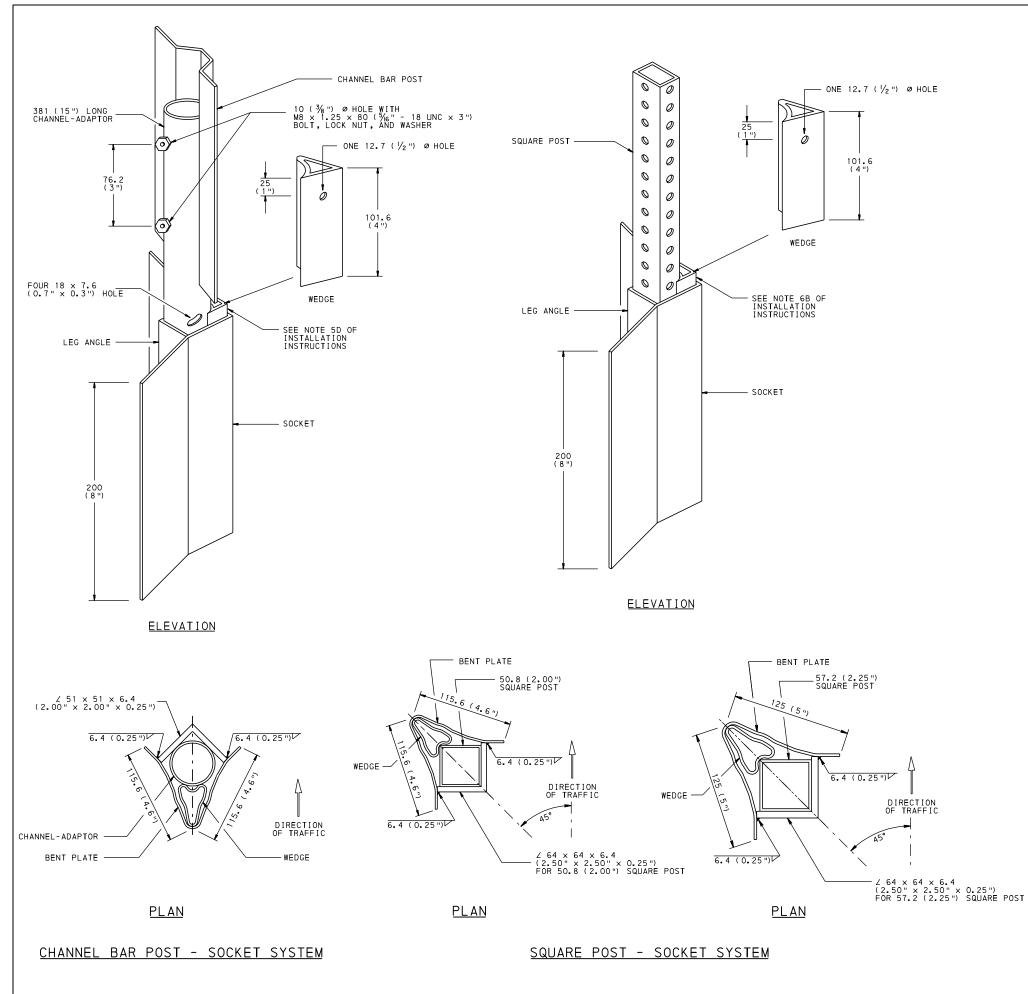
- 1. TO EXTEND THE HEIGHT OF A SIGN POST, A MAXIMUM OF ONE SPLICE MAY BE MADE.
- 2. FOUR ANCHOR BOLTS WITH SPACERS, WASHERS, LOCKWASHERS AND NUTS ARE REQUIRED (LOCKNUTS MAY BE USED IN LIEU OF STANDARD LOCKWASHERS AND NUTS). SEE THIS SHEET FOR ANCHOR BOLT SYSTEM.
- 3. POST EXTENSION SPLICE DETAIL A IS PREFERRED OVER POST EXTENSION SPLICE DETAIL B. WHEN DETAIL A IS USED, 3.71 kg/m (2.5 LB/FT.) POSTS SHALL USE A 3.71 kg/m (2.5 LB/FT.) POST EXTENSION POST FOR SPLICE EXTENSIONS; 5.94 kg/m (4.0 LB/FT.) POST SHALL USE A 5.94 kg/m (4.0 LB/FT.) POST EXTENSION POST FOR SPLICE EXTENSIONS WHEN DETAIL A IS USED, POST EXTENSION SPLICES SHALL BE MOUNTED ON THE BACK (NON-IMPACT) SIDE OF THE SIGN POST. SPLICES SHALL BE MADE AT A MINIMUM HEIGHT OF 1.9 m (6.25'), MEASURED TO THE BOTTOM OF THE SPLICE.
- 4. POST EXTENSION SPLICE DETAIL B IS PERMITTED FOR USE TO PROVIDE A FLUSH SIGN MOUNT SURFACE FOR 5.94 kg/m (4.0 LB/FT.) POSTS. WHEN DETAIL B IS USED, 3.71 kg/m (2.5 LB/FT.) POST EXTENSION SPLICES MAY BE NESTED ON THE FRONT OF A 5.94 kg/m (4.0 LB/FT.) POST. SPLICES SHALL BE MADE AT A MINIMUM HEIGHT OF 2.7 m (9'), MEASURED TO THE BOTTOM OF THE SPLICE.

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- 2. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.





	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering					
	POST-MOUNTED SIGNS, TYPE B					
	CHANNEL BAR POSTS SELECTION TABLES					
RE	COMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 7 OF 9			
	EF, TRAFFIC ENGINEERING AND	CHIEF HIGHWAY ENGINEER	TC-8702B			



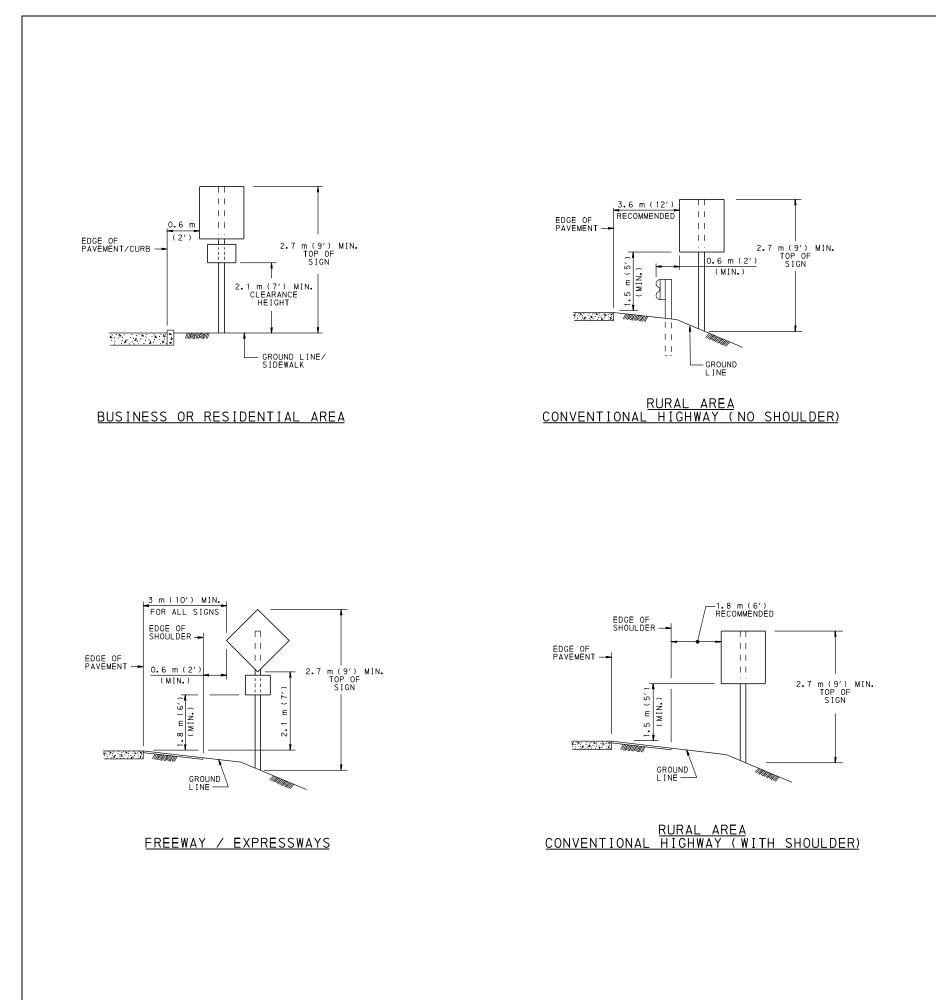
### <u>NOTES:</u>

- SOCKET SHALL CONSIST OF A BENT PLATE ATTACHED TO A LEG ANGLE BY A MINIMUM OF SIX, 6.4 mm x 38.1 mm (0.25" x 1.5") FILLET WELDS. THE TOP OF THE BENT PLATE SHALL BE FLUSH WITH THE TOP OF THE LEG ANGLE.
- SOCKET TO BE DIP-COATED WITH A RUST INHIBITING PRIMER MEETING FED. SPEC. TTP636.
- 3. BENT PLATE SHALLL BE 2.7 mm (0.1046") HOT ROLLED CARBON SHEET STEEL, COMMERCIAL QUALITY, ASTM A 569/A 569M.
- 4. LEG ANGLE SHALL BE ASTM A 36/A 36M.
- 5. WEDGE SHALL BE STEEL TUBING MADE TO ASTM A 500, GRADE B SPECIFICATIONS.
- 6. CHANNEL-ADAPTOR SHALL BE GALVANIZED STEEL MADE FROM 48 mm (1.9") OD TUBE WITH 3.0 mm (0.1196") WALL THICKNESS, ASTM A 500, GRADE B.
- 7. BOLTS TO BE M8  $\times$  1.25  $\times$  80 (5/16"  $\times$  3") HEX HEAD, GRADE 5, ZINK PLATED WITH WASHERS.
- 8. NUTS SHALL BE M8  $\times$  1.25 (  $\%_{6}"$  18 UNC) THREADS, NYLON INSERT LOCK NUTS.
- 9. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE. ENGLISH UNITS IN PARENTHESIS ( ).
- 10. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

### INSTALLATION INSTRUCTIONS:

- 1. SOCKET SYSTEMS ARE APPROVED FOR CONCRETE INSTALLATIONS.
- 2. SOCKET SYSTEMS ARE APPROVED FOR USE WITH 3.71 kg/m (2.5 LB/FT.) CHANNEL BAR POSTS AND 50.8 mm (2.00") AND 57.2 mm (2.25") STEEL SQUARE POSTS.
- 3. PLACE SOCKET IN A HOLE WITH THE TOP OF THE SOCKET FLUSH WITH THE TOPS OF THE ORIGINAL CONCRETE ELEVATION.
- 4. PLACE CONCRETE AROUND THE SOCKET. DO NOT PLACE CONCRETE INSIDE THE SOCKET WHERE THE WEDGE AND CHANNEL-ADAPTOR OR POST ARE TO BE PLACED.
- 5. FOR CHANNEL BAR POST INSTALLATIONS AFTER THE CONCRETE HAS CURED:
  - A. ATTACH THE CHANNEL BAR POST TO THE CHANNEL- ADAPTOR USING TWO BOLTS, LOCK NUTS, AND WASHERS.
  - B. INSERT THE LOWER PORTION OF THE CHANNEL- ADAPTOR INTO THE SOCKET UNTIL THE FOUR PIERCED HOLES ARE AT THE SAME HEIGHT AS THE TOP OF THE SOCKET.
  - C. ROTATE THE TWO UPPER HOLES IN THE CHANNEL- ADAPTOR TOWARD ONCOMING TRAFFIC.
  - D. POSITION THE WEDGE IN THE SOCKET WITH ITS HOLE AT THE TOP, AND DRIVE THE WEDGE INTO THE SOCKET UNTIL THE TOP OF THE WEDGE IS FLUSH WITH THE TOP OF THE SOCKET.
- 6. FOR STEEL SQUARE POST INSTALLATIONS AFTER THE CONCRETE HAS CURED:
  - A. INSERT THE SQUARE POST FULLY INTO THE SOCKET.
  - B. POSITION THE WEDGE IN THE SOCKET WITH ITS HOLE AT THE TOP, AND DRIVE THE WEDGE INTO THE SOCKET UNITL THE TOP OF THE WEDGE IS FLUSH WITH THE TOP OF THE SOCKET.

	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering					
	POST-MOUNTED SIGNS, TYPE B SOCKET SYSTEM FOR CONCRETE INSTALLATIONS					
	RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007 SHT. 8 OF 9					
	CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER DEPENDING DIVISION					



NOTES:

1.

2.

3.

7.

### SIGN CLEARANCE HEIGHT

CLEARANCE HEIGHT SHALL BE MEASURED FROM THE BOTTOM OF THE SIGN TO A LEVEL LINE PROJECTED FROM THE NEAR EDGE OF ROADWAY. THIS MAY RESULT IN A SIGN HEIGHT GREATER THAN THE MINIMUM HEIGHT REQUIRED WHEN MEASURED FROM THE GROUND LEVEL TO THE BOTTOM OF THE SIGN. IN BUSINESS AND URBAN AREAS THE CLEARANCE HEIGHT SHALL ALSO BE MEASURED FROM THE BOTTOM OF THE SIGN TO THE GROUND LEVEL OR SIDEWALK AREA TO REDUCE THE POSSIBILITY OF PEDESTRIANS COLLIDING WITH THE SIGN.

### LATERAL SIGN CLEARANCE

SIGNS SHOULD BE PLACED AS FAR AS PRACTICAL FROM THE EDGE OF THE ROADWAY TO REDUCE THE POSSIBILITY OF VEHICLES HITTING THE SIGNS. WHEN GUIDE RAIL IS PRESENT, SIGNS WILL BE PLACED BEHIND THE GUIDERAIL.

ROUTE MARKER SIGNS WITH AUXILIARY SIGNS (NORTH, SOUTH, ETC.) SHALL BE CONSIDERED A SINGLE SIGN ASSEMBLY. THE CLEARANCE HEIGHT IS MEASURED FROM THE BOTTOM OF THE LOWEST AUXILIARY SIGN TO A LEVEL LINE PROJECTED FROM THE NEAR EDGE OF ROADWAY.

BUSINESS OR URBAN AREAS

- IN BUSINESS, COMMERCIAL OR RESIDENTIAL DISTRICTS, OR WHERE PARKING AND/OR PEDESTRIAN MOVEMENTS ARE LIKELY, OR WHERE THE SIGN MAY BLOCK VISIBILITY, THE BOTTOM OF ALL SIGNS (INCLUDING AUXILIARY SIGNS) SHALL BE A MINIMUM OF 2.1 m (7') ABOVE GROUND AND THE NEAR DAVEMENT EDGE Α. PAVEMENT EDGE.
- LATERAL CLEARANCE RECOMMENDED IS 0.6 m (2') BEHIND CURB. IF SIDEWALK WIDTH IS LIMITED, OR WHEN EXISTING UTILITY POLES ARE CLOSE TO THE CURB A 0.3 m (1') CLEARANCE IS PERMISSIBLE. в.

5. RURAL AREAS

CONVENTIONAL HIGHWAYS. ALTHOUGH 2.1 m (7') MINIMUM SIGN HEIGHT CLEARANCE IS RECOMMENDED, IN RURAL DISTRICTS WHERE THE CONDITIONS LISTED IN NOTE 4A ARE NOT LIKELY, SIGNS MAY BE MOUNTED AT A MINIMUM CLEARANCE HEIGHT OF 1.5 m (5'). IF A SUPPLEMENTAL SIGN IS INSTALLED BELOW THE MAIN SIGN, THE CLEARANCE HEIGHT OF THE SUPPLEMENTAL SIGN MAY BE 1.2 m (4'). Α.

WHEN GUIDERAIL OR CONCRETE BARRIERS ARE PRESENT A 0.6 m (2') LATERAL CLEARANCE IS RECOMMENDED.

WHEN SHOULDERS ARE NOT PRESENT IT IS RECOMMENDED THAT SIGNS BE PLACED 3.6 m (12') FROM THE EDGE OF ROADWAY. WHERE SHOULDERS ARE PRESENT A 1.8 m (6') LATERAL CLEARANCE IS RECOMMENDED.

FREEWAY AND EXPRESSWAYS. DIRECTIONAL SIGNS SHALL BE HAVE A MINIMUM CLEARANCE HEIGHT OF 2.1 m (7'). HOWEVER, IF A SUPPLEMENTAL SIGN IS INSTALLED BELOW THE MAIN SIGN, THE SUPPLEMENTAL SIGN MAY HAVE A CLEARANCE HEIGHT OF 1.8 m (6'), PROVIDED THAT A 2.4 m (8') CLEARANCE HEIGHT IS MAINTAINED FOR THE MAIN SIGN. в.

ALL ROUTE MARKER, REGULATORY, AND WARNING SIGN ASSEMBLIES SHALL MAINTAIN A 1.8 m CLEARANCE HEIGHT TO THE BOTTOM OF THE SIGN ASSEMBLY (INCLUDING AUXILIARY SIGNS).

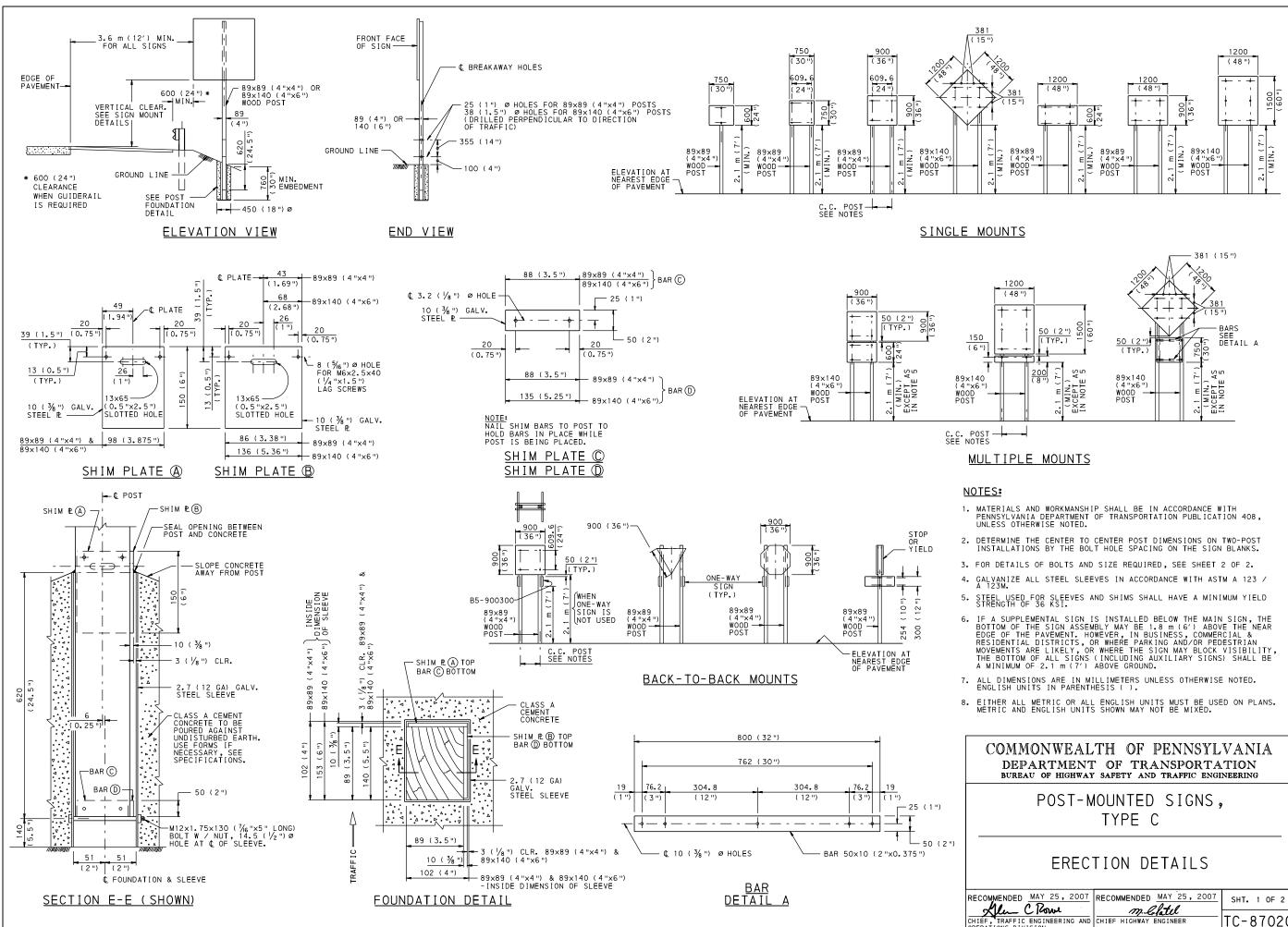
A 0.6 m (2') MINIMUM LATERAL CLEARANCE IS REQUIRED BEHIND UNMOUNTABLE CURB OR ROADWAY SHOULDER.

A 3.0 m (10') MINIMUM LATERAL CLEARANCE FROM THE EDGE OF THE NEAREST TRAVEL LANE IS RECOMMENDED.

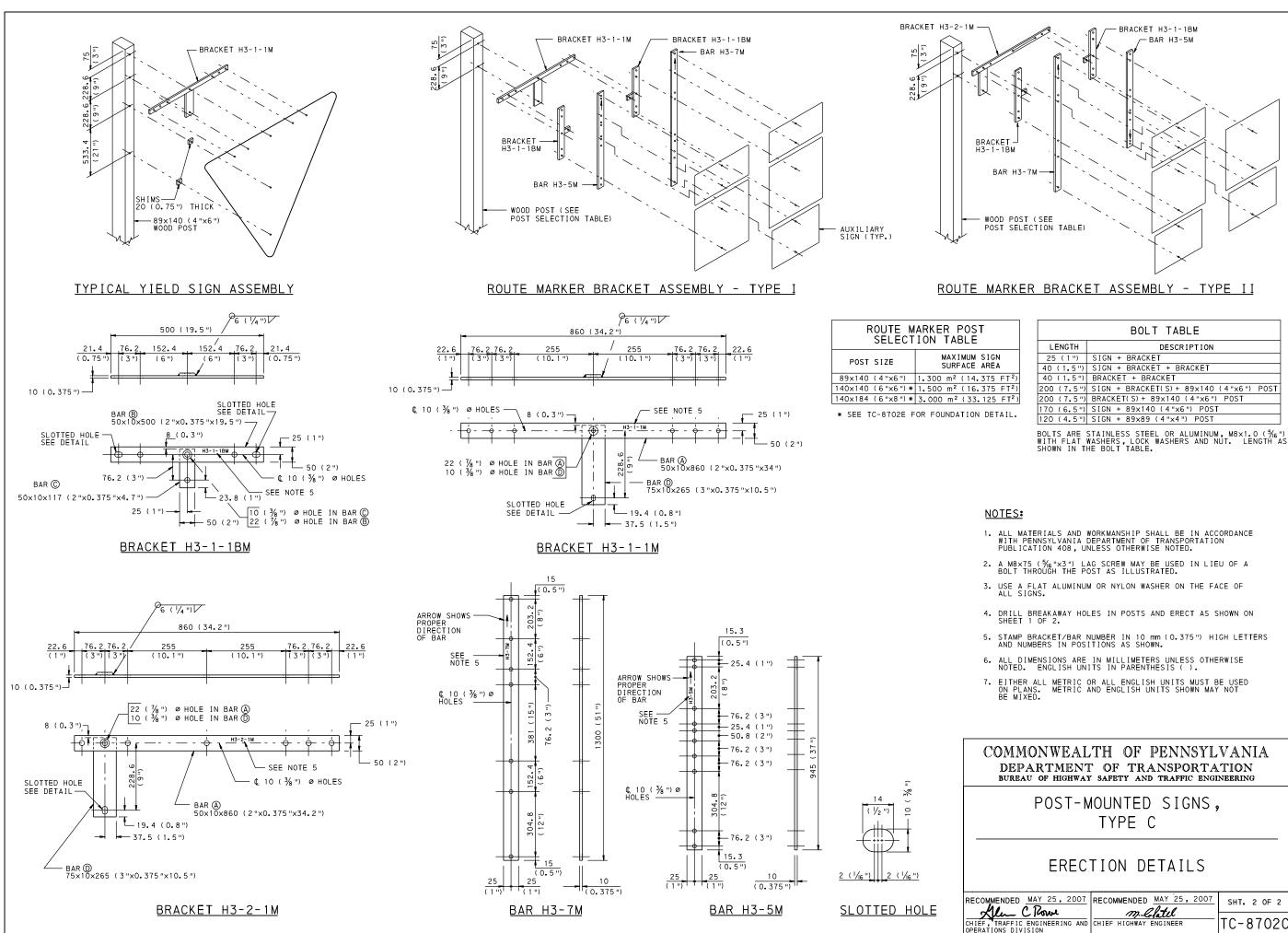
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).

EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

DEPARTMENT	TH OF PENNSYL T OF TRANSPORTA Y SAFETY AND TRAFFIC ENGL	TION				
POST-MOUNTED SIGNS, TYPE B						
SIGN LOCATION/INSTALLATION DETAILS						
RECOMMENDED MAY 25, 2007 Mun C Pour CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	RECOMMENDED MAY 25, 2007 <i>M. Glill</i> CHIEF HIGHWAY ENGINEER	<sup>ѕнт. эогэ</sup> ТС-8702В				

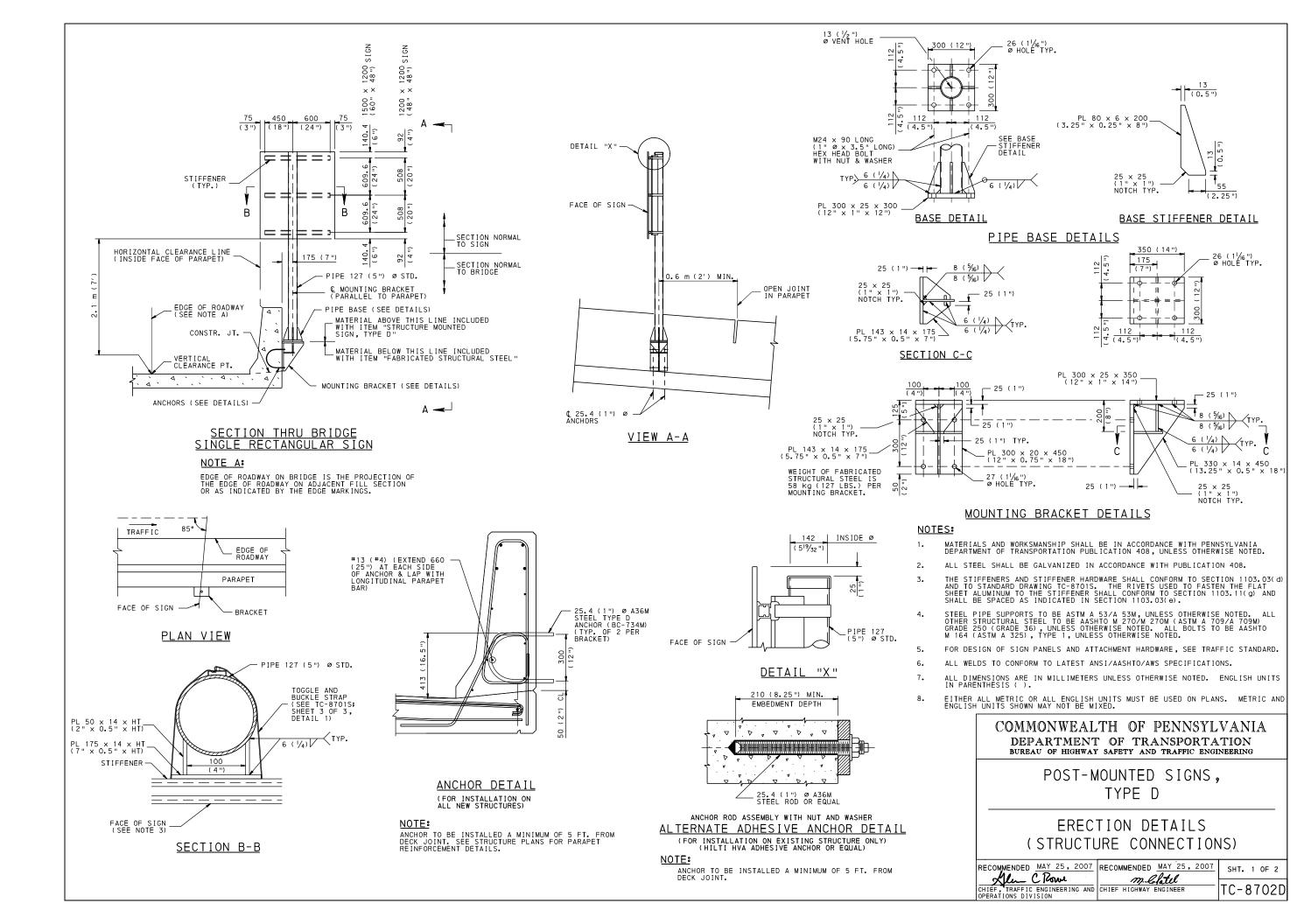


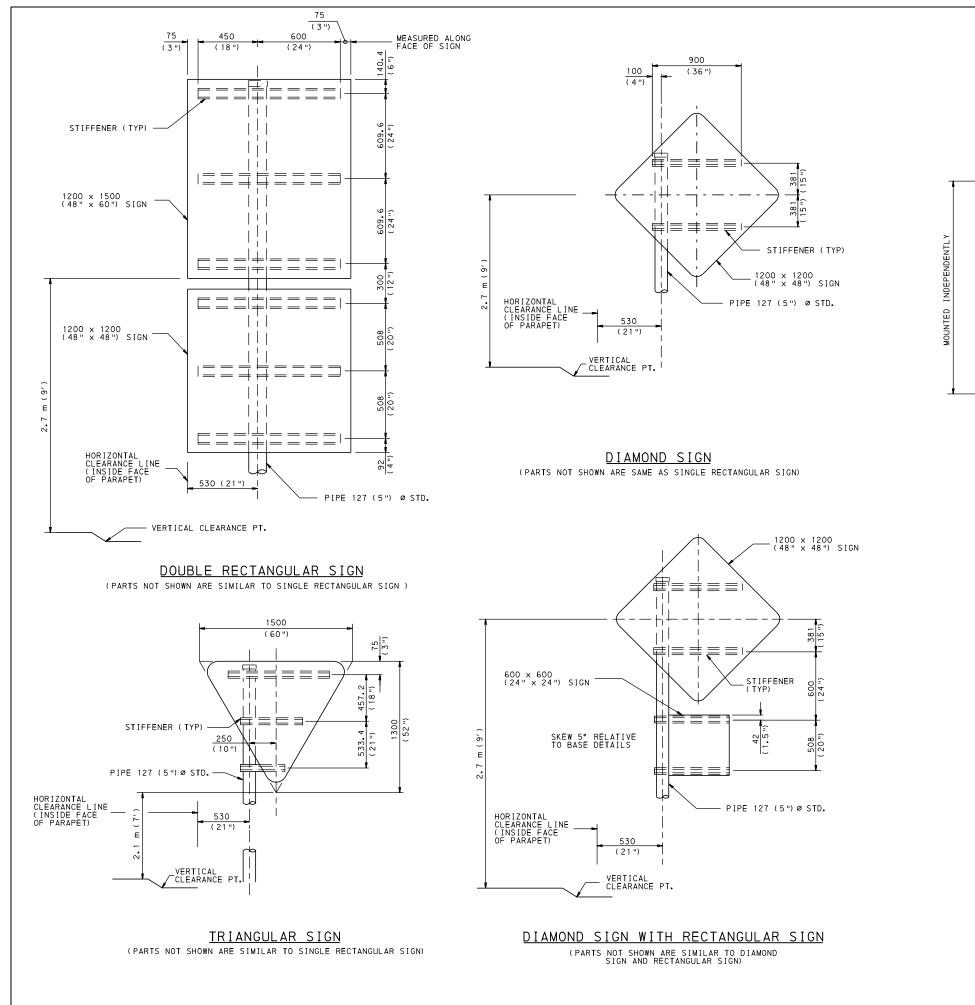
		SHT. 1 OF 2
Lee C Rove	m. C. latel	
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8702C

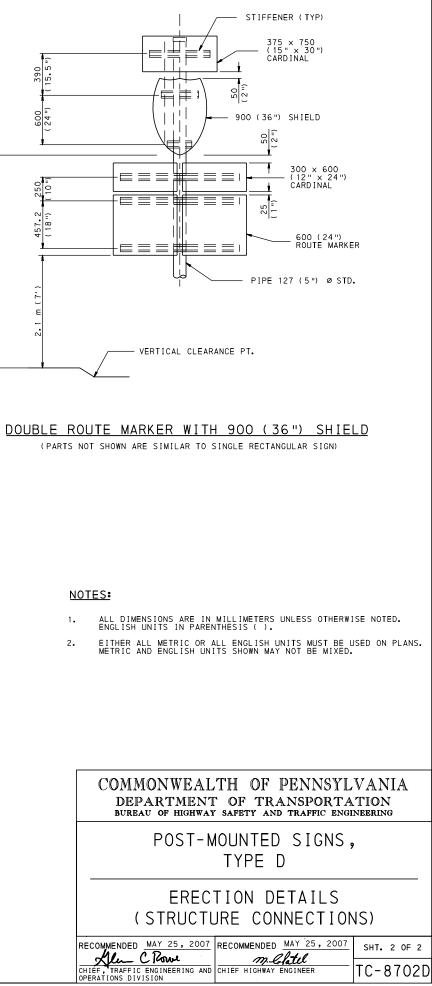


	1.500 m <sup>2</sup> (16.375 FT			BOLT TABLE
- 1	ION TABLE	LENG	STH	DESCRIPTION
		25 (	1")	SIGN + BRACKET
	SURFACE AREA	40 (1	.5")	SIGN + BRACKET + BRACKET
)	1.300 m <sup>2</sup> (14.375 FT <sup>2</sup> )	40 (1	• 5 ")	BRACKET + BRACKET
) *	1.500 m <sup>2</sup> (16.375 FT <sup>2</sup> )	200 (7	• 5 ")	SIGN + BRACKET(S) + 89×140 (4"×6") POS
) *	3.000 m <sup>2</sup> (33.125 FT <sup>2</sup> )	200 (7	• 5 ")	BRACKET(S) + 89×140 (4"×6") POST
· _	OR FOUNDATION DETAIL	170 (6	• 5 '')	SIGN + 89x140 (4"x6") POST
	OR FOUNDATION DETAIL.	120 (4	• 5 '')	SIGN + 89×89 (4"×4") POST
				TAINLESS STEEL OR ALUMINUM, M8×1.0 (5

	RECOMMENDED MAY 25, 2007		SHT. 2 OF 2
<u>.E</u>	Splen C Rowe	m. Colatel	
	CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-87020







DESIGN CRITERIA:

1. DESIGN BASED ON 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS INCLUDING 2002 INTERIM SPECIFICATIONS WITH THE FOLLOWING DESIGN CRITERIA:

- BASIC WIND SPEED (V) = 40 m/sec (90 MPH) (3-SECOND GUST) - WIND IMPORTANCE FACTOR (1r) = 0.71 (10 YEAR DESIGN LIFE) - FATIGUE IS NOT CONSIDERED FOR ROADSIDE SIGNS.

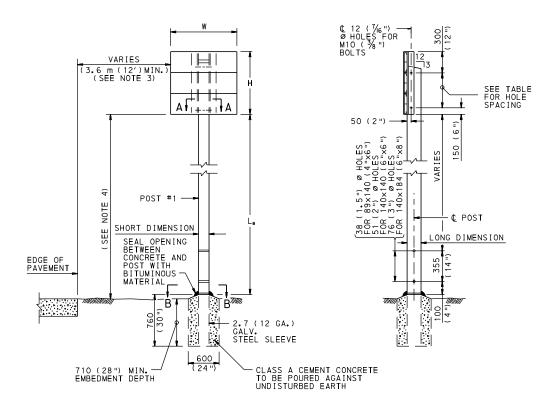
2. EMBEDMENT OF FOOTINGS IS BASED ON FIGURES 13-3 AND 13-4 AS OUTLINED IN THE AASHTO SPECIFICATIONS.



PLAN VIEW

	POST S	SELEC	TION	TABLE	- ON	IE POS	ST	
W	LB		HE	IGHT	"H" I	Nm (	FT)	
m (FT)	m (FT)	0.610	0.915	1.220	1.525	1.830	2.135	2.440
	1.8 (6)	P1	P1	P1	P1	P1	P2	P2
	2.1 (7)	P1	P1	P1	P1	P1	P2	P3
0.6(2)	2.4 (8)	P1	P1	P1	P1	P2	P2	P3
0.0 (2)	2.7 (9)	P1	P1	P1	P1	P2	P3	P3
	3.0 (10)	P1	P1	P1	P2	P3	P3	P3
	3.3 (11)	P1	P1	P1	P2	P3	P3	P3
	1.8 (6)	P1	P1	P1	P1	P2	P3	P3
	2.1 (7)	P1	P1	P1	P2	P3	P3	P3
0.9 (3)	2.4 (8)	P1	P1	P1	P2	P3	P3	P3
	2.7 (9)	P1	P1	P2	P3	P3	P3	P3
	3.0 (10)	P1	P1	P2	P3	P3	P3	-
	3.3 (11)	P1	P1	P3	P3	P3	-	
	1.8 (6)	P1 P1	P1 P1	P1 P2	P2 P3	P3 P3	P3 P3	P3
	2.1 (7)	P1	P1	P2	P3	P3 P3	P3	-
1.2 (4)	2.7 (9)	P1	P2	P3	P3	P3	-	-
	3.0 (10)	P1	P2	P3	P3	P3	-	-
	3.3 (11)	P1	P3	P3	P3	-	-	-
	1.8 (6)	P 1	P1	P2	P3	P3	P3	-
	2.1 (7)	P1	P1	P2	P3	P3	-	-
1 5 ( 5 )	2.4 (8)	P1	P2	P3	P3	P3	-	-
1.5 (5)	2.7 (9)	P1	P2	P3	P3	-	-	-
	3.0 (10)	P1	P3	P3	P3	-	-	-
	3.3 (11)	P2	P3	P3	-	-	-	-
	1.8 (6)	*	P2	P3	P3	P3	-	-
	2.1 (7)	*	P2	P3	P3	-	-	-
1.8 (6)	2.4 (8)	*	P2	P3	P3	-	-	-
	2.7 (9)	*	P3	P3	-	-	-	-
	3.0 (10)	*	P3	P3	-	-	-	-
	3.3 (11)	*	P3	-	-	-	-	-
	1.8 (6)	*	P2	P3	P3	-	-	-
	2.1 (7)	*	P2	P3	P3	-	-	-
2.1 (7)	2.4 (8)	*	P3 P3	P3 P3	-	-	-	-
	3.0 (10)	*	P3 P3	-	-	-	-	-
	3.3 (11)	*	P3	_	-	_	-	_
	1.8 (6)	*	P2	P3	P3	_	-	-
	2.1 (7)	*	P3	P3	-	-	-	-
	2.4 (8)	*	P3	P3	-	-	-	-
2.4 (8)	2.7 (9)	*	P3	-	-	-	-	-
	3.0 (10)	*	P3	-	-	-	-	-
	3.3 (11)	*	P3	-	-	-	-	-

FOR



SIGN ELEVATION

END VIEW

MET	R	IC	UNIT	S	ENGL	ISH UNITS
ANGL	Ē	CON SF	NECTIC ACING	)N	ANGL I BOI	CONNECTION T SPACING
H (m)		SF	PACES		H (FT)	SPACES
0.610	1	ΑT	160.0	mm	2	1 AT 6"
0.915	2	ΑT	232.5	mm	3	2 AT 9"
1.220	2	ΑT	385.0	mm	4	2 AT 15"
1.525	3	ΑT	358.3	mm	5	3 AT 14"
1.830	3	ΑŤ	460.0	mm	6	3 AT 18"
2.135	4	ΑT	421.3	mm	7	4 AT 16.5"
2.440	6	ΑT	331.6	mm	8	6 AT 13"

### TABLE FOR HOLE SPACING

LEGEND:	
---------	--

### POST SELECTION EXAMPLE

P1 = 89x140 (4"x6") F0 P2 = 140x140 (6"x6") P3 = 140x184 (6"x8") \* USE TWO POSTS (SEE SHEET 2)

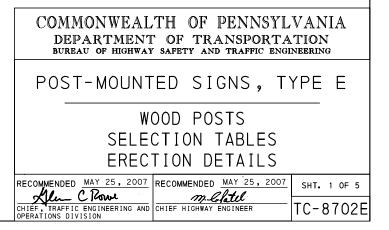
A	SIGN	WHERE	
	w	= 0.6 m	(2')
	н	= 0.610	m (2′)
	LB	= 3.3 m	(11')

ONE P1 =  $89 \times 140$  (4"×6") WOOD POST IS REQUIRED

### SIGN POST SELECTION NOTES:

- 1. DETERMINE VALUES OF "W", "H", AND  $"\mathsf{L}_{\mathsf{B}}$  " AS INDICATED IN THE SIGN ELEVATION. W = MAXIMUM WIDTH OF SIGN.
  - H = MAXIMUM HEIGHT OF SIGN.
  - L<sub>B</sub> = MAXIMUM DISTANCE BETWEEN TOP OF A FOOTING AND BOTTOM OF SIGN.
- 2. FOR SELECTION OF POSTS, ENTER TABLES WITH VALUES OF "W", "H" "L<sub>B</sub> ".
- 3. FOR A SIGN SIZE BETWEEN THOSE VALUES OF "W", "H" AND "L $_{\rm B}$ " IN THE TABLE, USE NEXT HIGHEST m (FT) VALUE.
- 4. USE THE LONGEST POST TO SELECT ALL POST SIZES.

- MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PENNSYLVANIA DEPARIMENT OF TRANSPORTATION PUBLICATION 408, UNLESS NOTED OTHERWISE.
- 2. POST #1 IS ALWAYS ADJACENT TO ROADWAY, WHETHER SIGN IS LOCATED ON LEFT OR RIGHT.
- 3. AT LOCATIONS WITH UNMOUNTABLE CURB, GUIDE RAIL OR BARRIER, PLACE THE NEAR EDGE OF THE SIGN AT LEAST 0.6 m (2') BEHIND THE CURB FACE, GUIDE RAIL OR BARRIER. AT LOCATIONS WITH GUIDE RAIL OR BARRIER, IT IS DESIRABLE TO PLACE POST #1 BEYOND THE DEFLECTION DISTANCE OF THE GUIDE RAIL OR BARRIER. PRIOR TO FABRICATION, DETERMINE ACTUAL LATERAL PLACEMENT IN THE FIELD WITH THE APPROVAL OF THE ENDINEER APPROVAL OF THE ENGINEER.
- 4. BUSINESS OR URBAN AREAS
- A. IN BUSINESS, COMMERCIAL OR RESIDENTIAL DISTRICTS, OR WHERE PARKING AND/OR PEDESTRIAN MOVEMENTS ARE LIKELY, OR WHERE THE SIGN MAY BLOCK VISIBILITY, THE BOTTOM OF ALL SIGNS (INCLUDING AUXILIARY SIGNS) SHALL BE A MINIMUM OF 2.1 m (7') ABOVE GROUND AND THE NEAR PAVEMENT EDGE.
- RURAL AREAS
- CONVENTIONAL HIGHWAYS. ALTHOUGH 2.1 m (7') MINIMUM SIGN HEIGHT CLEARANCE IS RECOMMENDED, IN RURAL DISTRICTS WHERE THE CONDITIONS LISTED IN NOTE 4A ARE NOT LIKELY, SIGNS MAY BE MOUNTED AT A MINIMUM CLEARANCE HEIGHT OF 1.5 m (5'). IF A SUPPLEMENTAL SIGN IS INSTALLED BELOW THE MAIN SIGN, THE CLEARANCE HEIGHT OF THE SUPPLEMENTAL SIGN MAY BE 1.2 m (4'). в.
- FREEWAY AND EXPRESSWAYS. SIGNS SHALL HAVE A MINIMUM CLEARANCE HEIGHT OF 2.1 m (7'). HOWEVER, IF A SUPPLEMENTAL SIGN IS INSTALLED BELOW THE MAIN SIGN, THE SUPPLEMENTAL SIGN MAY HAVE A CLEARANCE HEIGHT OF 1.8 m (6'). PROVIDED THAT A 2.1 m (7') CLEARANCE HEIGHT IS MAINTAINED FOR THE C. MAIN SIGN.
- 5. LOCATE SIGNS TO AVOID PLACING SUPPORTS IN DRAINAGE DITCHES.
- 6. SEE SHEET 2 FOR TWO-POST INSTALLATION.
- 7. SEE SHEET 3 FOR THREE-POST INSTALLATION.
- 8. SEE SHEET 4 FOR SECTIONS AND ERECTION DETAILS.
- 9. SEE SHEET 5 FOR TEMPORARY DIRECT BURIAL TWO-POST INSTALLATION.
- 10. FOR DETAIL OF SIGN PANELS AND ATTACHMENT HARDWARE, SEE TRAFFIC STANDARD TC-8701E OR TC-8701S.
- 11. TWIST-IN TOGGLE STRAPS MAY BE USED ON FLAT SHEET ALUMINUM SIGNS WITH STIFFENERS IN ACCORDANCE WITH TC-8701S AND PUB. 408.
- 12. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- 13. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.



POST	SELECTION TABL	E - TW	VO POS	TS	POS	T SELEC	TION	TABLE	- TW	O POS	TS	POS	T SELECT	ΓΙΟΝ	TABLE	- TW	O POS	TS	1	
w	HEIGHT	''''''''	INm (	FT)	w					Nm (		w	LB	HE	IGHT	"H" I	Nm (	FT)	ł	
		5 1.220				m (FT)	0.610	0.915				m (FT	) m (FT)	0.610	0.915	1.220	1.525	1.830	1	
	(2) (3) 1.8 (6) P1 P1	(4) P1	(5) P1	(6)		1.8 (6)	(2) P1	(3) P1	(4) P2 *	(5)	(6) P3 *		1.8 (6)	(2) P1	(3) P2	(4) P3	(5) P3	(6)	l	
	2.1 (7) P1 P1	P1	- FI	-		2.1 (7)	P1	P2 *	P3 *	P3 *	P3 *		2.1 (7)	P2	P3	P3	- FJ	-	1	
	2.4 (8) P1 P1	P1	_	-		2.4 (8)	P1	P2 *	P3 *	P3 *	FJ *		2.4 (8)	P2	P3	P3	-	_	1	
	2.7 (9) P1 P1	-		-		2.7 (9)	P1	P3 *	P3 *	P3 *	-		2.7 (9)	P2	P3	-	-	-	1	
	3.0 (10) P1 P1	-	-	-		3.0 (10)		P3 *	P3 *	-	-		3.0 (10)	P3	P3	-	-	-	1	
1.8 (6)	3.3 (11) P1 -	-	-	-	3.3 (11)	3.3 (11)		P3 *	P3 *	-	-	4.8 (16	) 3.3 (11)	P3	P3	-	-	-	1	
	3.6 (12) P1 -	-	-	-		3.6 (12)	P3 *	P3 *	-	-	-		3.6 (12)	P3	-	-	-	-	1	
	3.9 (13) P1 -	-	-	-		3.9 (13)	P3 *	P3 *	-	-	-		3.9 (13)	P3	-	-	-	-	l	1/5
	4.2 (14)	-	-	-		4.2 (14)		P3 *	-	-	-		4.2 (14)	P3	-	-	-	-	1	
	4.5 (15)	-	-	-		4.5 (15)		-	-	-	-		4.5 (15)	P3	-	-	-	-	4	, VARIES
	4.8 (16)	-	-	-		4.8 (16)		-	-	-	-		4.8 (16)	-	-	-	-	-	1	(3.6 m (1
	1.8 (6) P1 P1	P1	-	-		1.8 (6)	P1	P2 *	P3 *	P3 *	P3 *		1.8 (6)	P1	P3	P3	-	-	1	MIN.)
	2.1 (7) P1 P1	P1	-	-		2.1 (7)	P1	P2 *	P3 *	P3 *	-		2.1 (7)	P2	P3	P3	-	-	1	(SEE NOTE
	2.4 (8) P1 P1 2.7 (9) P1 P1	-	-	-		2.4 (8)	P1	P2 *	P3 *	P3 *	-		2.4 (8)	P2	P3		-	-	ł	ON SHEET
	2.7 (9) P1 P1 3.0 (10) P1 -	-	-	-		2.7 (9)	P2 *	P3 *	P3 *	-	-		2.7 (9)	P3 P3	P3 P3	-	-	-	1	
2 1 (7)	3.3 (11) P1 -	-		-	3 6 (12)	3.3 (11)	_	P3 *	FJ *	-	_	5 1 / 17	) 3.3 (11)	P3	F J -	-	_	-	1	
2.1 (1)	3.6 (12) P1 -	-	-	-	5.6 (12)	3.6 (12)		P3 *	-	-	-	5.1 (17	3.6 (12)	P3	-	-	-	-	1	
	3.9 (13)	-	-	-		3.9 (13)		P3 *	-	-	-		3.9 (13)	P3	-	-	-	-	1	
	4.2 (14)	-	-	-		4.2 (14)		-	-	-	-		4.2 (14)	P3	-	-	-	-	1	
	4.5 (15)	-	-	-		4.5 (15)		-	- 1	-	-		4.5 (15)	-	-	-	-	-	1	
	4.8 (16)	-	-	-		4.8 (16)	P3 *	-	-	-	-		4.8 (16)	-	-	-	-	-	1	
	1.8 (6) P1 P1	P1	-	-		1.8 (6)	P1	P2	P3	P3	-		1.8 (6)	P1	P3	P3	-	-	1	4
	2.1 (7) P1 P1	-	-	-		2.1 (7)	P1	P2	P3	P3	-		2.1 (7)	P2	P3	P3	-	-	1	( SEE NOTE ON SHEET 1
	2.4 (8) P1 P1	-	-	-		2.4 (8)	P1	P3	P3	-	-		2.4 (8)	P2	P3	-	-	-	1	
	2.7 (9) P1 -	-	-	-		2.7 (9)	P2	P3	P3	-	-		2.7 (9)	P3	P3	-	-	-	1	
	3.0 (10) P1 -	-	-	-		3.0 (10)		P3	P3	-	-		3.0 (10)	P3	P3	-	-	-	1	U SZ
2.4 (8)	3.3 (11) P1 -	-	-	-	3.9 (13)	3.3 (11)		P3	-	-	-	5.4 (18	) 3.3 (11)	P3	-	-	-	-	1	00
	3.6 (12)	-	-	-		3.6 (12)		P3	-	-	-		3.6 (12)	P3	-		-	-	1	
	3.9 (13) 4.2 (14)	-	-	-		3.9 (13)		P3	-	-	-		3.9 (13)	P3 P3	-	-	-	-	l	- EDGE OF
	4.2 (14)	-	-	-		4.2 (14)		-	-	-	-		4.2 (14)	-	-	-	-	-	1	PAVEMENT
	4.8 (16)	-	-	-		4.8 (16)	-	-	-	-	-		4.5 (15)	-	-	-	-	-	1	
	1.8 (6) P1 P1	P2 *	P3 *	P3 *		1.8 (6)	P1	P2	P3	P3	_		1.8 (6)	P2	P3	P3	_	-		
	2.1 (7) P1 P1	P2 *	_	P3 *		2.1 (7)	P1	P2	P3	P3	-		2.1 (7)	P2	P3	P3	-	-	, ,	
	2.4 (8) P1 P2 *	_	P3 *	P3 *		2.4 (8)	P2	P3	P3	-	-		2.4 (8)	P2	P3	-	-	-		<u>.</u>
	2.7 (9) P1 P2 *			P3 *		2.7 (9)	P2	P3	P3	-	-		2.7 (9)	P3	P3	-	-	-	1	
	3.0 (10) P1 P2 *		P3 *	-		3.0 (10)	P2	P3	-	-	-		3.0 (10)	P3	-	-	-	-	1	
2.7 (9)	3.3 (11) P1 P3 *	€ P3 *	P3 *	-	4.2 (14)	3.3 (11)	P3	P3	-	-	-	5.7 (19	) 3.3 (11)	P3	-	-	-	-	I	
	3.6 (12) P2 * P3 *	• P3 *	-	-		3.6 (12)	P3	P3	-	-	-		3.6 (12)	P3	-	-	-	-	710	) (28") MIN.
	3.9 (13) P2 * P3 *		-	-		3.9 (13)		-	-	-	-		3.9 (13)	P3	-	-	-	-	I EME	BEDMENT DEPI
	4.2 (14) P3 * P3 *		-	-		4.2 (14)		-	-	-	-		4.2 (14)	-	-	-	-	-	1	
	4.5 (15) P3 * P3 *		-	-		4.5 (15)	P3	-	-	-	-		4.5 (15)	-	-	-	-	-	1	
	4.8 (16) P3 * -	-	-	-		4.8 (16)	-	-	-	-	-		4.8 (16)	-	-	-	-	-	1	
	1.8 (6) P1 P1	P2 *	P3 *	P3 *		1.8 (6)	P1	P2	P3	P3	-		1.8 (6)	P2	P3	P3	-	-	1	
	2.1 (7) P1 P1	P3 *	P3 *	P3 *		2.1 (7)	P1	P3	P3	-	-		2.1 (7)	P2	P3	-	-	-	I	
	2.4 (8) P1 P2 * 2.7 (9) P1 P2 *		P3 * P3 *	P3 *		2.4 (8)	P2 P2	P3 P3	P3 -	-	-		2.4 (8)	P3 P3	P3 P3		-	-	I	
	3.0 (10) P1 P2 *		P3 *	-		3.0 (10)		P3	-	-	-		3.0 (10)	P3 P3	-	-	-	-	I	
3.0 (10)	3.3 (11) P2 * P3 *		-	-	4.5 (15)	3.3 (11)		P3	-	-	-	6.0 (20	) 3.3 (11)	P3	-	-	_	-	I	
3.0 (10)	3.6 (12) P2 * P3 *		- 1	-		3.6 (12)		-	- 1	-	-		3.6 (12)	P3	-	-	-	-	I	
	3.9 (13) P3 * P3 *		-	-		3.9 (13)		-	-	-	-		3.9 (13)	P3	-	-	-	-	I	
	4.2 (14) P3 * P3 *	-	-	-		4.2 (14)		-	- 1	-	-		4.2 (14)	-	-	-	-	-	I	
	4.5 (15) P3 * -	-	-	-		4.5 (15)	-	-	-	-	-		4.5 (15)	-	-	-	-	-	I	
	4.8 (16) P3 * -	-	-	-		4.8 (16)	-	-	-	-	-		4.8 (16)	-	-	-	-	-	I	
·			•	·	· · · · · · · · · · · · · · · · · · ·		•	•		•		· · · · · · · · · · · · · · · · · · ·						·		

\* SEE NOTE 1.

### LEGEND:

P1 = 89x140 (4"x6") P2 = 140x140 (6"x6") P3 = 140x184 (6"x8")

## POST SELECTION EXAMPLE

### FOR A SIGN WHERE

W = 1.8 m (6′) H = 0.610 m (2') L<sub>B</sub> = 3.9 m (13′)

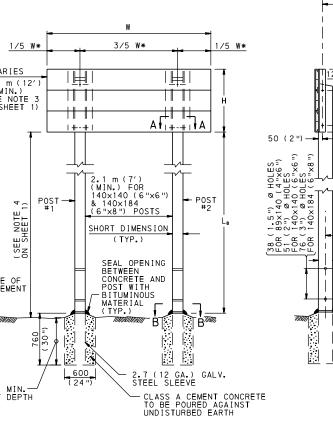
TWO P1 = 89×140 (4"×6") WOOD POSTS ARE REQUIRED.

## NOTES:

- POSTS IN THE SELECTION TABLE WITH AN "\*" MUST HAVE A MINIMUM CLEAR SPACING OF 2.1 m (7') BETWEEN POSTS BY INCREASING THE 3/5 W SPACING. THE REMAINING SIGN WIDTH "W" SHOULD BE EQUALLY DISTRIBUTED TO THE OVERHANGS.
- 2. SEE SHEET 1 FOR ADDITIONAL NOTES.
- 3. SEE SHEET 4 FOR SECTIONS AND ERECTION DETAILS.
- 4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.



<u>plan view</u>



## SIGN ELEVATION

METRIC UNITS

ANGL BO	Ēт	CON SP	NECTIO ACING	N
H (m)		SF	PACES	
0.610		ΑT	160.0	mm
0.915	2	ΑT	232.5	mm
1.220	2	ΑT	385.0	mm
1.525	3	ΑT	358.3	mm
1.830	3	ΑT	460.0	mm

END VIEW

ENGLISH UNITS

-℃ 12 (7/6") ØHOLES FOR M10 (3/8") BOLTS

150 ARIES

¢ POST

LONG DIMENSION

(TYP.)

//ANV///

355

✓ SEE TABLE FOR HOLE SPACING

300

<u>\_</u>3

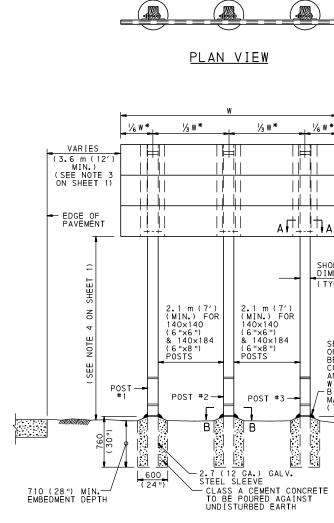
ANGLE BOL	CONNECTION T SPACING
H (FT)	SPACES
2	1 AT 6"
3	2 AT 9"
4	2 AT 15"
5	3 AT 14"
6	3 AT 18"

TABLE FOR HOLE SPACING



POST S	ELECTIO	N TABI	_E - T	HREE	POSTS
W		HEIG			(FT)
( <del></del> -		0.610	0.915	1.220	1.525
m (FT)	m (FT)	(2)	(3)	(4)	(5)
	1.8 (6)	P1	P2*	P3*	P3*
	2.1 (7)	P1	P3*	P3*	-
	2.4 (8)	P2*	P3*	P3*	-
		P2*	P3*	FJ	-
	2.7 (9)			-	-
	3.0 (10)	P3*	P3*		
c c (	3.3 (11)	P3*	P3*	-	-
6.6 (22)	3.6 (12)	P3*	-	-	-
	3.9 (13)	P3*	-	-	-
	4.2 (14)	P3*	-	-	-
	4.5 (15)	P3*	-	-	-
	4.8 (16)	-	-	-	-
	5.1 (17)	-	-	-	-
	5.4 (18)	-	-	-	-
	1.8 (6)	P1	P2	P3	P3
	2.1 (7)	P2	P3	P3	-
	2.4 (8)	P2	P3	P3	-
	2.7 (9)	P2	P3	-	-
	3.0 (10)	P3	P3	-	-
	3.3 (11)	P3	P3	-	-
6.9 (23)		P3		_	_
0.3 (23)	3.6 (12)		-	-	-
	3.9 (13)	P3			
	4.2 (14)	P3	-	-	-
	4.5 (15)	-	-	-	-
	4.8 (16)	-	-	-	-
	5.1 (17)	-	-	-	-
	5.4 (18)	-	-	-	-
	1.8 (6)	P1	P2	P3	P3
	2.1 (7)	P2	P3	P3	-
	2.4 (8)	P2	P3	P3	-
	2.7 (9)	P3	P3	-	-
	3.0 (10)	P3	P3	-	-
	3.3 (11)	P3	P3	-	-
7.2 (24)	3.6 (12)	P3	-	-	-
	3.9 (13)	P3	-	-	-
	4.2 (14)	P3	-		-
	4.5 (15)	-	-	-	-
		_	_	_	-
		-	-	-	-
	5.1 (17)				
	5.4 (18)	-	-	-	-
	1.8 (6)	P1	P3	P3	-
	2.1 (7)	P2	P3	P3	-
	2.4 (8)	P2	P3	-	-
	2.7 (9)	P3	P3	-	-
	3.0 (10)	P3	P3	-	-
	3.3 (11)	P3	-	-	-
7.5 (25)	3.6 (12)	P3	-	-	-
	3.9 (13)	P3	-	-	-
	4.2 (14)	P3	-	-	-
	4.5 (15)	-	-	-	-
	4.8 (16)	-	-	_	-
	5.1 (17)	-	-	-	-
		-	-	_	_
	5.4 (18)				-
	1.8 (6)	P1	P3	P3	-
	2.1 (7)	P2	P3	P3	-
	2.4 (8)	P2	P3	-	-
	2.7 (9)	P3	P3	-	-
	3.0 (10)	P3	P3	-	-
	3.3 (11)	P3	-	-	-
7.8 (26)	3.6 (12)	P3	-	-	-
	3.9 (13)	P3	-	-	-
	4.2 (14)	-	-	-	-
	4.5 (15)	-	-	-	-
	4.8 (16)	-	-	-	-
	5.1 (17)	-	-	-	-
	J. I ( I ( )	1			

POST S	ELECTIO		F - T	HREE	POSTS
W			<u> '</u> HT "H'		
m (FT)	m (FT)	0.610	0.915 (3)	1.220 (4)	1.525
	1.8 (6)	P2	P3	P3	-
	2.1 (7)	P2	P3	P3	-
	2.4 (8)	P2	P3	-	-
	2.7 (9)	P3	P3	-	-
	3.0 (10)	P3	P3	-	-
	3.3 (11)	P3	-	-	-
8.1 (27)	3.6 (12)	P3		-	-
0.1 (21)	3.9 (13)	P3		-	-
	4.2 (14)	-	-	-	-
	4.5 (15)	-	-	-	-
	4.8 (16)	-	-	-	_
	5.1 (17)	-	_	_	_
	5.4 (18)	-	-	-	
		- P2	- P3	- P3	
	1.8 (6)	P2 P2	P3 P3		-
	2.1 (7)	P2 P3	P3 P3	P3	-
	2.4 (8)			-	-
	2.7 (9)	P3	P3	-	
	3.0 (10)	P3	-	-	-
	3.3 (11)	P3			
8.4 (28)	3.6 (12)	P3	-	-	-
	3.9 (13)	P3	-	-	-
	4.2 (14)	-	-	-	-
	4.5 (15)	-	-	-	-
	4.8 (16)	-	-	-	-
	5.1 (17)	-	-	-	-
	5.4 (18)	-	-	-	-
	1.8 (6)	P2	P3	P3	-
	2.1 (7)	P2	P3	-	-
	2.4 (8)	P3	P3	-	-
	2.7 (9)	Р3	P3	-	-
	3.0 (10)	P3	-	-	-
	3.3 (11)	P3	-	-	-
8.7 (29)	3.6 (12)	P3	-	-	-
	3.9 (13)	-	-	-	-
	4.2 (14)	-	-	-	-
	4.5 (15)	-	-	-	-
	4.8 (16)	-	-	-	-
	5.1 (17)	-	-	-	-
	5.4 (18)	-	-	-	-
	1.8 (6)	P2	P3	P3	-
	2.1 (7)	P2	P3	-	-
	2.4 (8)	P3	P3	-	-
	2.7 (9)	P3	P3	-	-
	3.0 (10)	P3	-	-	-
	3.3 (11)	P3	-	-	-
9.0 (30)	3.6 (12)	P3	-	-	-
	3.9 (13)	-	-	-	-
	4.2 (14)	-	-	-	-
					-
	4.5 (15)	-	-	-	-
	4.5 (15)	-	-	-	-
	4.5 (15) 4.8 (16) 5.1 (17)				



### SIGN ELEVATION

### LEGEND:

P1 = 89×140 (4"×6") P2 = 140×140 (6"×6") P3 = 140×184 (6"×8")

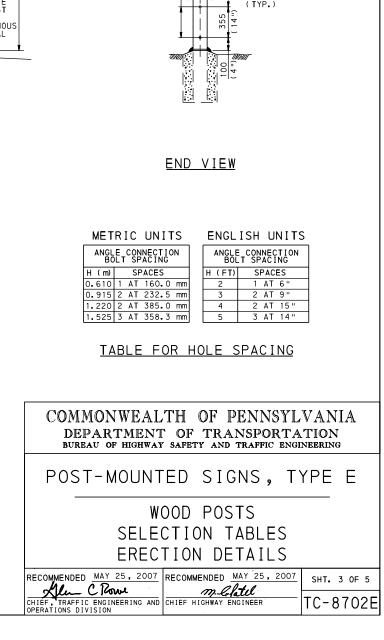
### POST SELECTION EXAMPLE

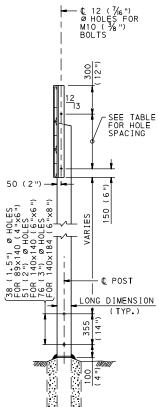
FOR A SIGN WHERE W = 6.6 m (22') H = 0.610 m (2') L<sub>B</sub> = 4.5 m (15′)

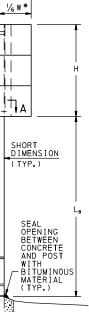
THREE P3 = 140×184 (6"×8") WOOD POSTS ARE REQUIRED.

### NOTES:

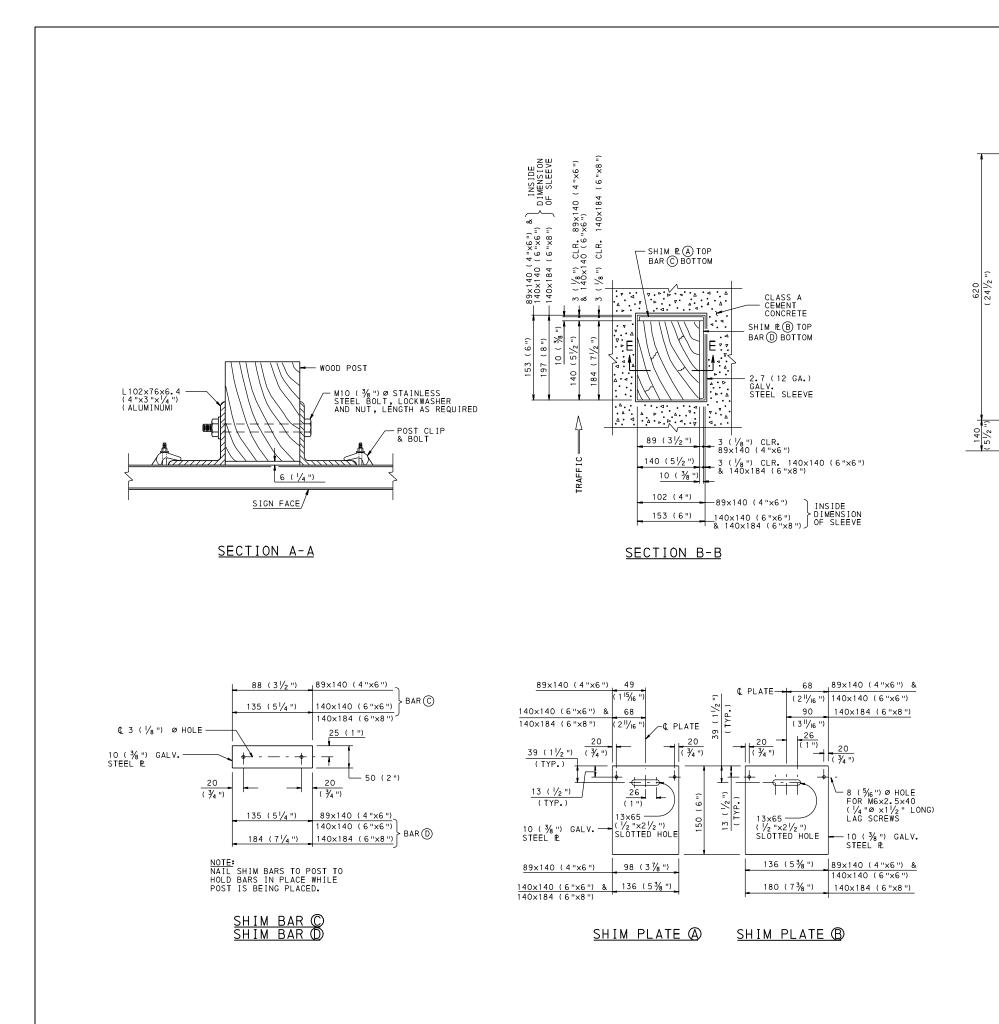
- POSTS IN THE SELECTION TABLE WITH AN "\*" MUST HAVE A MINIMUM CLEAR SPACING OF 2.1 m (7') BETWEEN POSTS BY INCREASING THE 3/5 W SPACING. THE REMAINING SIGN WIDTH "W" SHOULD BE EQUALLY DISTRIBUTED TO THE OVERHANGS.
- 2. SEE SHEET 1 FOR ADDITIONAL NOTES.
- 3. SEE SHEET 4 FOR SECTIONS AND ERECTION DETAILS.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ). 4.
- EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED. 5.

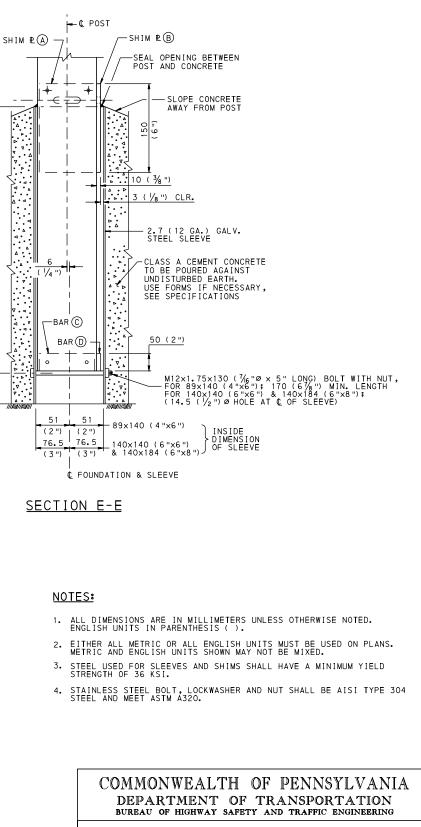






=/





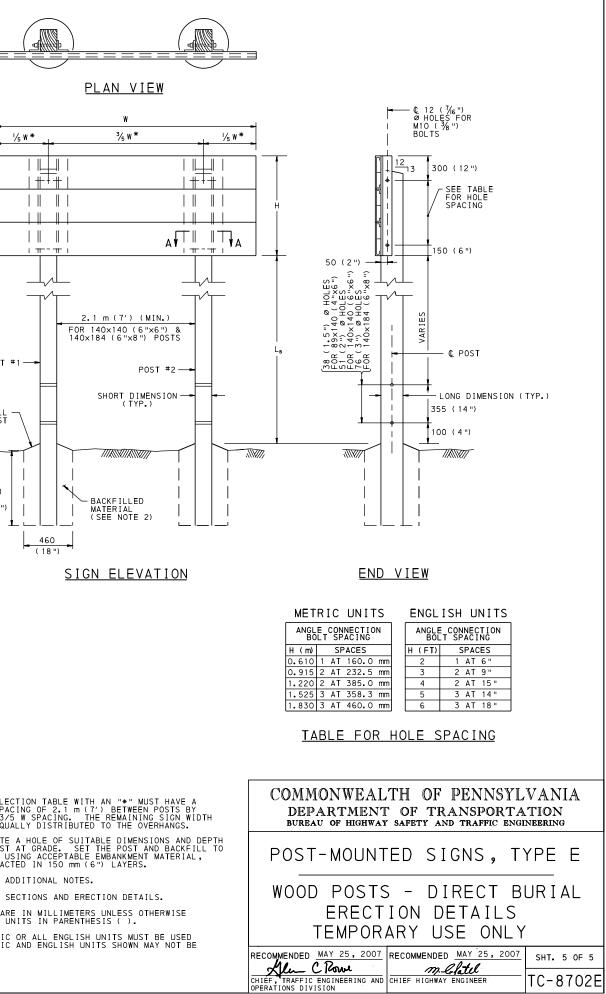
.⊽

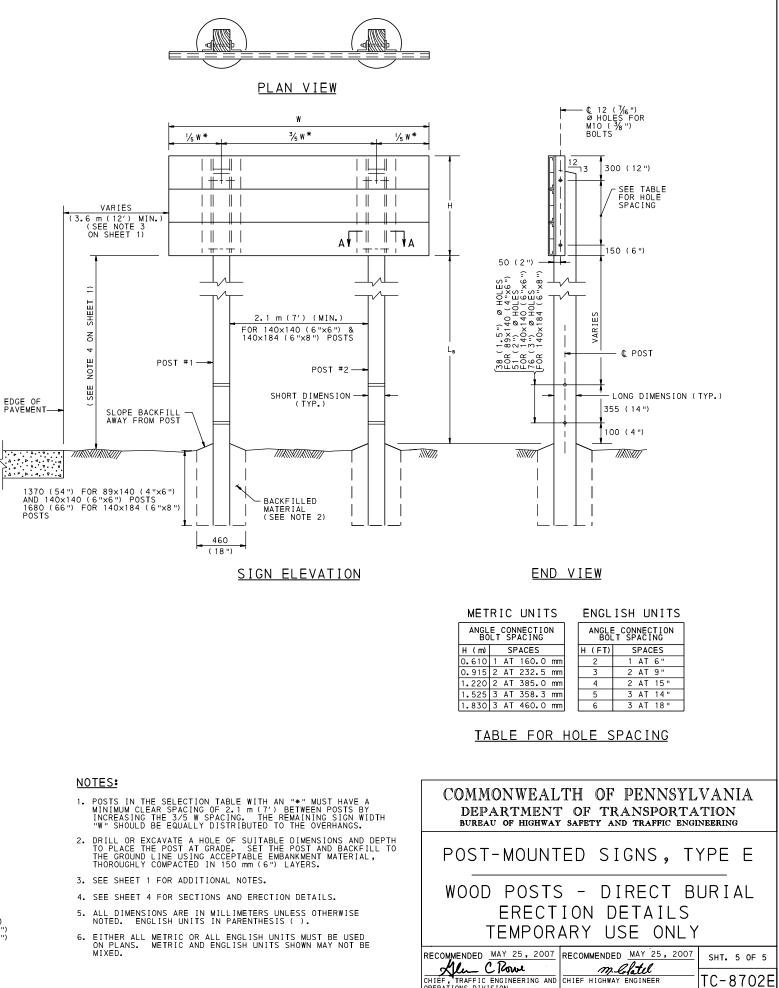
## POST-MOUNTED SIGNS, TYPE E

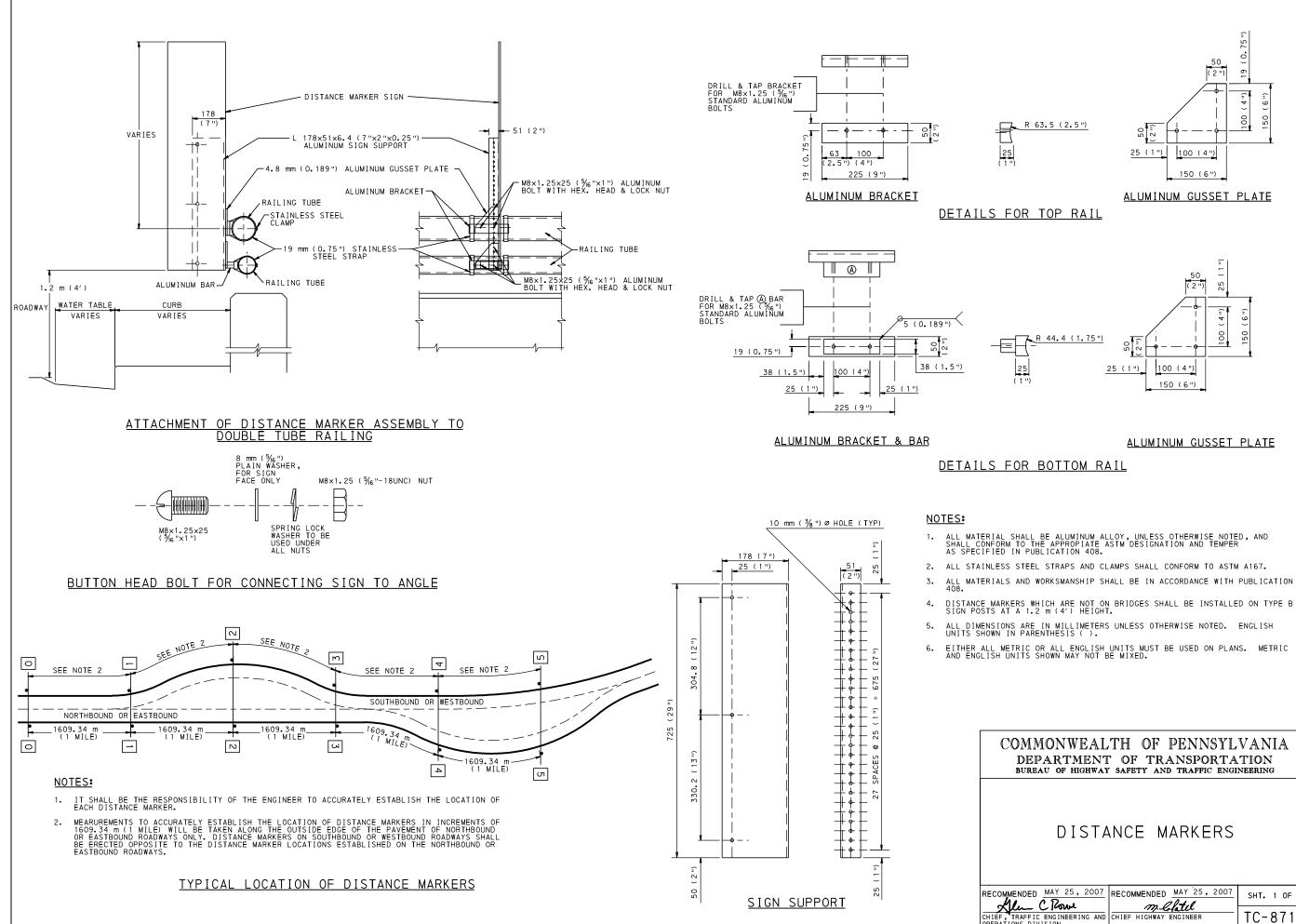
# WOOD POSTS ERECTION DETAILS

RECOMMENDED MAY 25, 2007 All Chief, TRAFFIC ENCINEERING AND OPERATIONS DIVISION MAY 25, 2007 M.C.L.L CHIEF, TRAFFIC ENCINEERING AND CHIEF HIGHWAY ENGINEER SHT. 4 OF 5 TC-8702E

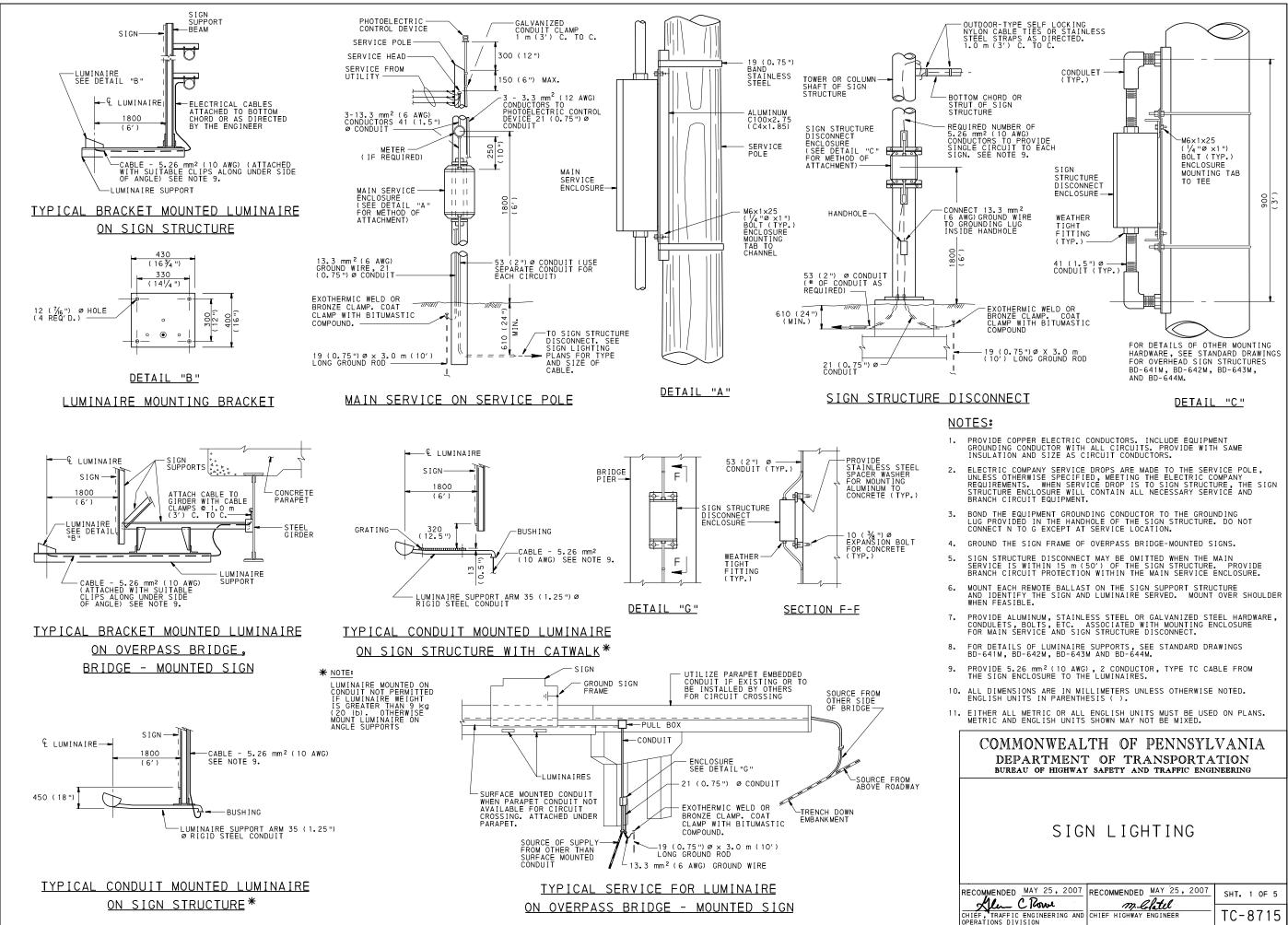
	SELEC							T SELEC					
W (FT)			IGHT 0.915	"H" I 1.220	N m (	FT)					"H" I 1.220	N m (	
(FT)		(2)	(3)	(4)	(5)	(6)	m (FI)	m (FT)	(2)	(3)	(4)	(5)	(6)
	1.8 (6)	P1	P1	P1	P1	-		1.8 (6)	P1	P2	P3	P3	-
	2.1 (7)	P1 P1	P1 P1	P1 P1	-	-		2.1 (7)	P1 P2	P2 P3	P3 P3	P3	-
	2.7 (9)	P1	P1 P1	- PI	-	-		2.4 (8)	P2 P2	P3 P3	P3 P3	-	-
	3.0 (10)	P1	P1	-	-	-		3.0 (10)	P2	P3	-	-	-
3 (6)	3.3 (11)	P1	-	-	-	-	4.2 (14)		P3	P3	-	-	-
	3.6 (12)	P1	-	-	-	-		3.6 (12)	P3	P3	-	-	-
	3.9 (13)	P1	-	-	-	-		3.9 (13)	P3	-	-	-	-
	4.2 (14)	-	-	-	-	-		4.2 (14)	P3	-	-	-	-
	4.5 (15)	-	-	-	-	-		4.5 (15)	P3	-	-	-	-
	4.8 (16)	- P1	- P1	- P1	-	-		4.8 (16)	- P1	- P2	- P3	- P3	-
	2.1 (7)	P1	P1	P1	_	-		2.1 (7)	P1	P3	P3	-	_
	2.4 (8)	P1	P1	-	-	-		2.4 (8)	P2	P3	P3	-	-
	2.7 (9)	P1	P1	-	-	-		2.7 (9)	P2	P3	-	-	-
	3.0 (10)	P1	-	-	-	-		3.0 (10)	P3	P3	-	-	-
(7)	3.3 (11)	P1	-	-	-	-	4.5 (15)		P3	P3	-	-	-
	3.6 (12)	P1	-	-	-	-		3.6 (12)	P3	-	-	-	-
	3.9 (13)	-	-	-	-	-		3.9 (13)	P3	-	-	-	-
	4.2 (14)	-	-	-	-	-		4.2 (14)	P3 P3	-	-	-	-
	4.5 (15)	-	-	-	-	-		4.5 (15)	P3 -	-	-	-	-
	1.8 (6)	- P1	- P1	- P1	-	-		1.8 (6)	- P1	- P2	- P3	- P3	-
	2.1 (7)	P1	P1	-	-	-		2.1 (7)	P2	P3	P3	F J	-
	2.4 (8)	P1	P1	-	-	-		2.4 (8)	P2	P3	P3	-	-
	2.7 (9)	P1	-	-	-	-		2.7 (9)	P2	P3		-	-
	3.0 (10)	P1	-	-	-	-		3.0 (10)	P3	P3	-	-	-
(8)	3.3 (11)	P1	-	-	-	-	4.8 (16)		P3	P3	-	-	-
	3.6 (12)	-	-	-	-			3.6 (12)	P3	-	-	-	-
	3.9 (13)	-	-	-	-	-		3.9 (13)	P3	-	-	-	-
	4.2 (14)	-	-	-		-		4.2 (14)	P3	-	-	-	-
	4.5 (15)	-	-	-	-	-		4.5 (15)	P3 -	-	-	-	-
	1.8 (6)	- P1	- P1	- P2 *	- P3 *	- P3 *		1.8 (6)	- P1	- P3	- P3	-	-
	2.1 (7)	P1	P1	P2 *	P3 *	P3 *		2.1 (7)	P2	P3	P3	_	-
	2.4 (8)	P1	P2 *	P3 *	P3 *	P3 *		2.4 (8)	P2	P3	-	-	-
	2.7 (9)	P1	P2 *	P3 *	P3 *	P3 *		2.7 (9)	P3	P3	-	-	-
	3.0 (10)	P1	P2 *	P3 *	P3 *	-		3.0 (10)	P3	P3	-	-	-
9)	3.3 (11)	P1	P3 *	P3 *	P3 *	-	5.1 (17)	3.3 (11)	P3	-	-	-	-
	3.6 (12)	P2 *	P3 *	P3 *	-	-		3.6 (12)	P3	-	-	-	-
	3.9 (13)		P3 *	P3 *	-	-		3.9 (13)	P3	-	-	-	-
	4.2 (14)	P3 *	P3 *	-	-	-		4.2 (14)	P3	-	-	-	-
	4.5 (15)	P3 *	P3 *	-	-	-		4.5 (15)	-	-	-	-	-
	4.8 (16)	P3 *	- D1	- -	-	-		4.8 (16)	- D 1	-	-	-	-
	1.8 (6)	P1 P1	P1 P1	P2 *	P3 * P3 *	P3 * P3 *		1.8 (6)	P1 P2	P3 P3	P3 P3	-	-
	2.1 (7)	P1 P1	P1 P2 *	P3 * P3 *	P3 *	P3 *		2.1 (7)	P2 P2	P3 P3	-	-	-
	2.7 (9)	P1	P2 *	P3 *	P3 *	- FJ *	5.4 (18)	2.7 (9)	P3	P3	-	-	-
	3.0 (10)	P1	P3 *	P3 *	P3 *	-		3.0 (10)	P3	P3	-	-	-
10)	3.3 (11)		P3 *	P3 *	-	-		3.3 (11)	P3	-	-	-	-
	3.6 (12)	P2 *	P3 *	P3 *	-	-		3.6 (12)	P3	-	-	-	-
	3.9 (13)		P3 *	-	-			3.9 (13)	P3	-	-	-	-
	4.2 (14)		P3 *	-	-	-		4.2 (14)	P3	-	-	-	-
	4.5 (15)		-	-	-	-		4.5 (15)	-	-	-	-	-
	4.8 (16)	P3 * P1	- P1	- P2 *	- P3 *	- P3 *		4.8 (16)	- P2	- P3	- P3	-	-
	2.1 (7)	P1 P1	P2 *	P2 *	P3 *	P3 *		2.1 (7)	P2 P2	P3 P3	P3 P3	-	-
	2.4 (8)	P1	P2 *	P3 *	P3 *			2.4 (8)	P2	P3	-	-	-
	2.7 (9)	P1	P3 *	P3 *	P3 *	-		2.7 (9)	P3	P3	-	-	-
	3.0 (10)	P2 *	P3 *	P3 *	-	-		3.0 (10)	P3	-	-	-	-
11)	3.3 (11)		P3 *	P3 *	-	-	5.7 (19)		P3	-	-	-	-
	3.6 (12)		P3 *	-	-	-		3.6 (12)	P3	-	-	-	-
	3.9 (13)		P3 *	-	-	-		3.9 (13)	P3	-	-	-	-
	4.2 (14)		P3 *	-	-	-		4.2 (14)	-	-	-	-	-
	4.5 (15)	P3 * P3 *	-	-	-	-		4.5 (15)	-	-		-	-
	1.8 (16)	P3 *	- P2 *	- P3 *	- P3 *	- P3 *		1.8 (16)	- P2	- P3	- P3		-
	2.1 (7)	P1	P2 *	P3 *	P3 *	-		2.1 (7)	P2	P3	-		-
	2.4 (8)	P1	P2 *	P3 *	P3 *	-		2.4 (8)	P3	P3	-		-
	2.7 (9)	P2 *	P3 *	P3 *	-	-		2.7 (9)	P3	P3	-	-	-
	3.0 (10)	P2 *	P3 *	P3 *	-	-		3.0 (10)	P3	-	-	-	-
12)	3.3 (11)		P3 *	-	-	-	6.0 (20)		P3	-	-	-	-
	3.6 (12)	P3 *	P3 *	-	-	-		3.6 (12)	P3	-	-	-	-
	3.9 (13)		P3 *	-	-	-		3.9 (13)	P3	-	-		-
	4.2 (14)		-	-	-	-		4.2 (14)	-	-	-	-	-
	4.5 (15)	P3 *	-	-	-	-		4.5 (15)	-	-	-	-	-
	4.8 (16)	P3 *	-	-	-	-		4.8 (16)	-	-	-	-	-
	1.8 (6)	P1	P2	P3	P3	-	* SEE	NOTE 1.					
	2.1 (7)	P1	P2	P3	P3	-							
	2.4 (8)	P1	P3	P3	-	-						, –	
	2.7 (9)	P2	P3	P3	-	-	<u>post s</u>	ELEUII	<u>UN E</u>	AMP		<u>LE</u>	GEND
131	3.0 (10)	P2 P3	P3 P3	P3 -	-	-	FOR A SIG	N WHERE				P1	= 89×1
101	3.3(11) 3.6(12)	P3 P3	P3 P3	-	-	-			- 1 - 1 -			P2	= 140×
	3.9 (13)	P3 P3	P3 P3	-	-	-		W = 1.8 m		,			= 140×
	4.2 (14)	P3	- -	-	-	-		H = 0.610		,			
								L <sub>B</sub> = 3.9 m	n (13')				
	4.5 (15)	P3	-	-	-	-							



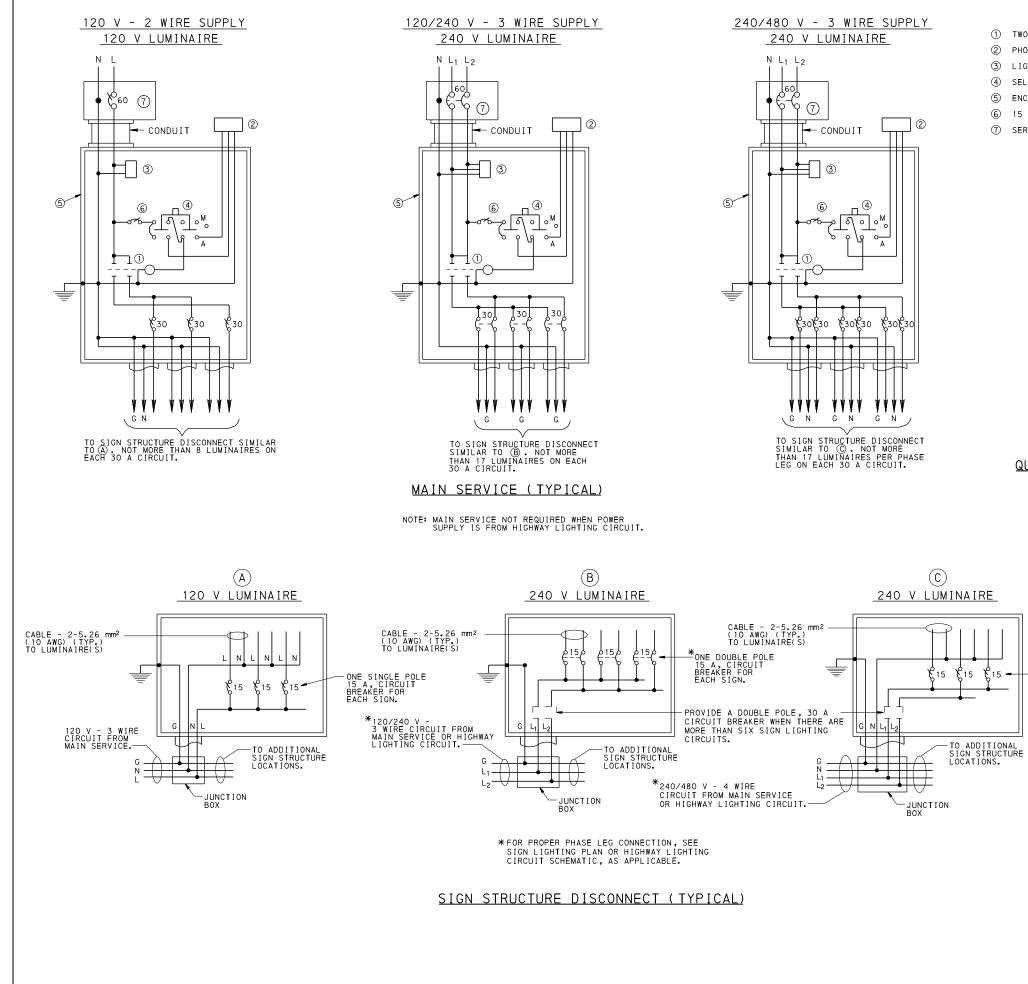




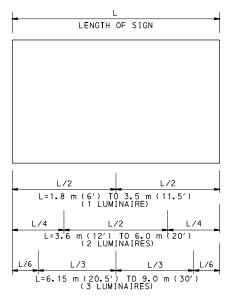
COMMONWEALTH OF PENNSYL DEPARTMENT OF TRANSPORTA bureau of highway safety and traffic engi	TION
DISTANCE MARKERS	
RECOMMENDED MAY 25, 2007 RECOMMENDED MAY 25, 2007	SHT. 1 OF 1
CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER	TC-8710



RECOMMENDED MAY 25, 2007		SHT. 1 OF 5
Ale C Rowe	m. Colatel	
CHIEF, TRAFFIC ENGINEERING AND OPERATIONS DIVISION	CHIEF HIGHWAY ENGINEER	TC-8715



```
    TWO POLE, 60 A, LIGHTING CONTACTOR
    PHOTOELECTRIC CONTROL DEVICE
    LIGHTNING ARRESTOR
    SELECTOR SWITCH (MANUAL-OFF-AUTO.)
    ENCLOSURE
    15 A, SINGLE POLE CIRCUIT BREAKER
    SERVICE DISCONNECT
```



### QUANTITY AND LOCATION OF LUMINAIRES

### NOTES:

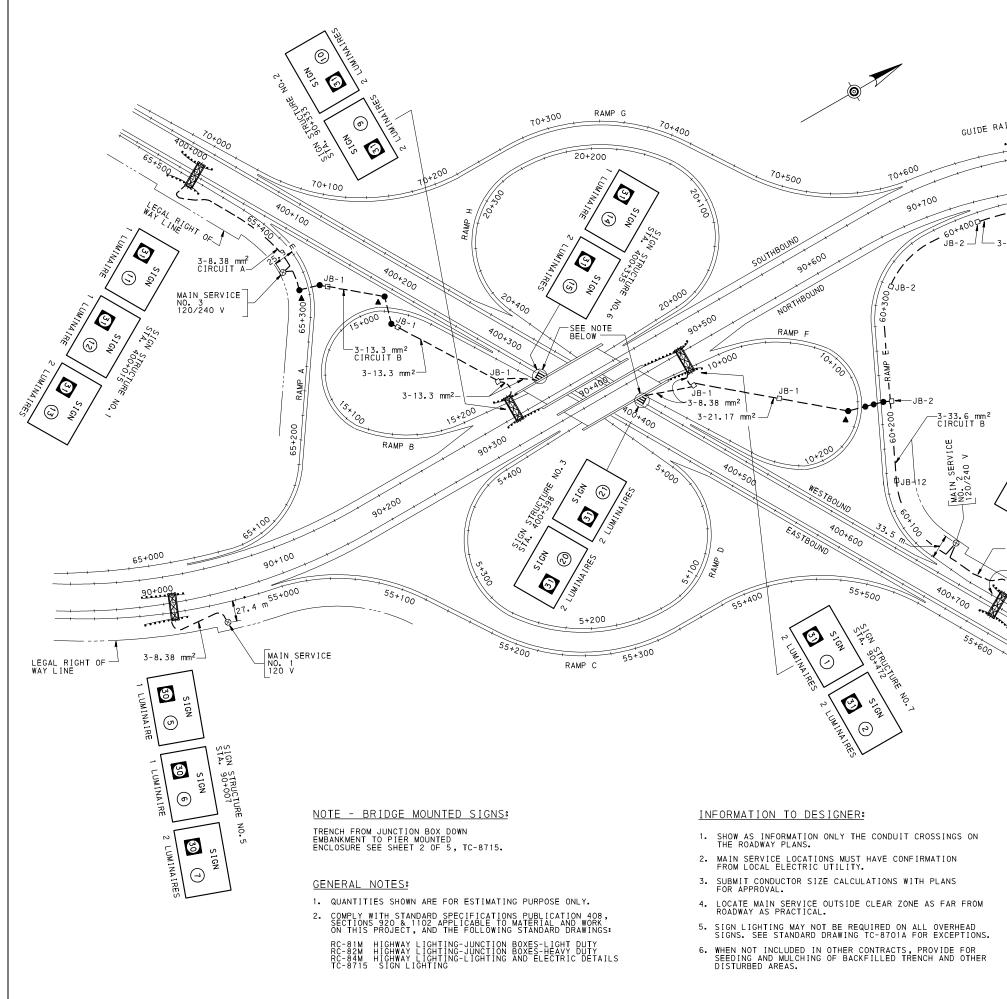
\* ONE SINGLE POLE 15 A, CIRCUIT BREAKER FOR EACH SIGN.

- PROVIDE A CIRCUIT BREAKER FOR THE MAIN DISCONNECT UNLESS THE POWER COMPANY REQUIRES FUSES.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS IN PARENTHESIS ( ).
- 3. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.
- 4. PROVIDE A MAIN DISCONNECT IN A SEPARATE NEMA 3R OR 4 ENCLOSURE THAT IS LABELED AS "SUITABLE FOR USE AS SERVICE EQUIPMENT". PROVIDE WITH A LOCKABLE COVER AND NO EXTERNAL HANDLE. THE DISCONNECT MAY BE PROVIDED INTEGRAL TO THE CONTROL CABINET IF THE CABINET IS DEAD FRONT AND LABELED AS "SUITABLE FOR USE AS SERVICE EQUIPMENT".

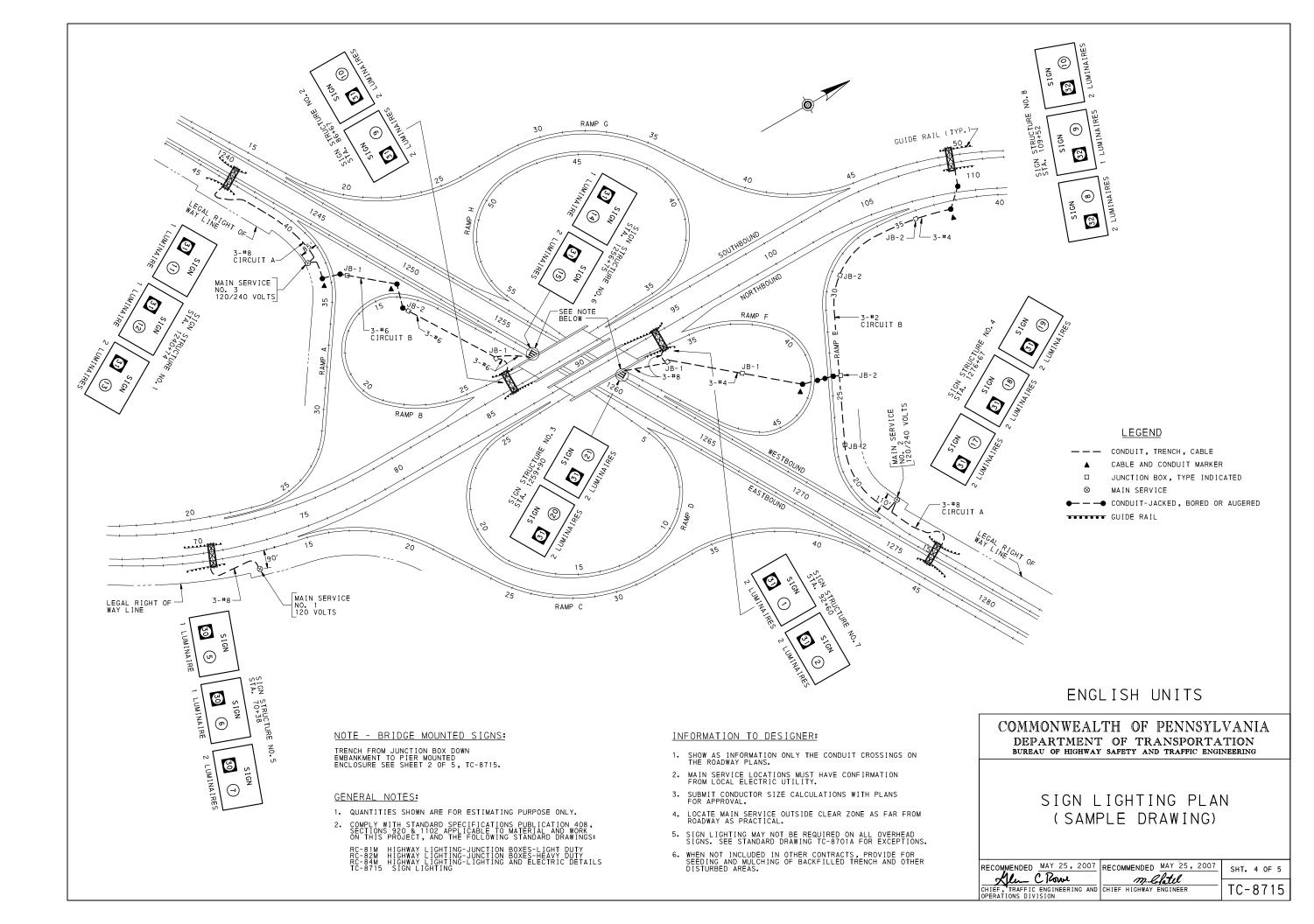
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of highway safety and traffic engineering

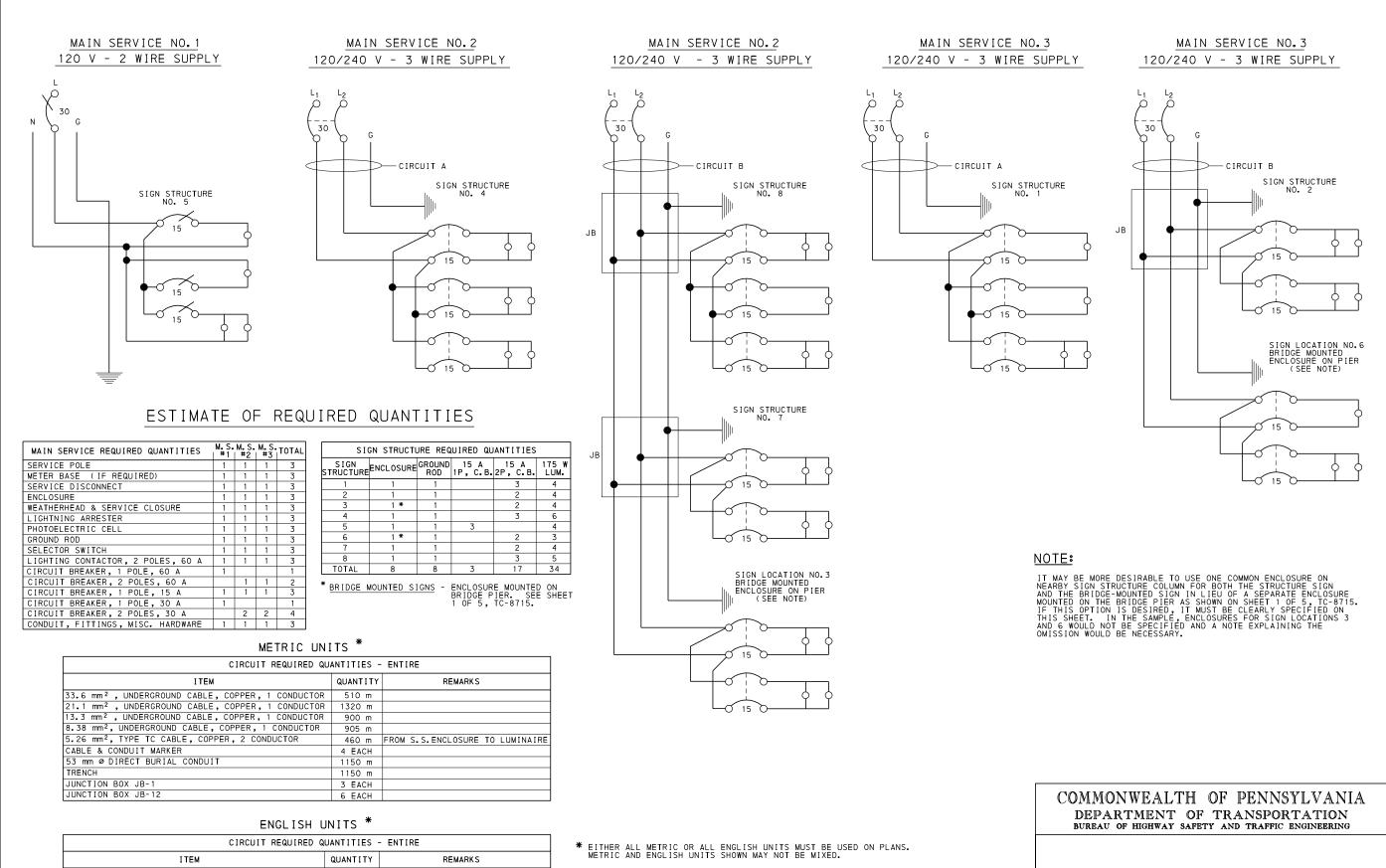
## SIGN LIGHTING

RECOMMENDED MAY 25, 2007	RECOMMENDED MAY 25, 2007	SHT. 2 OF 5
Alen C. Rowe	m. C. latel	
CHIEF, TRAFFIC ENGINEERING AND	CHIEF HIGHWAY ENGINEER	TC-8715
OPERATIONS DIVISION	Provide the second s	

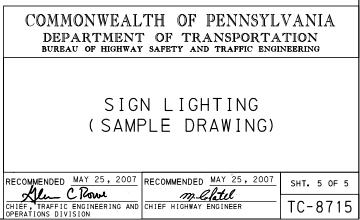


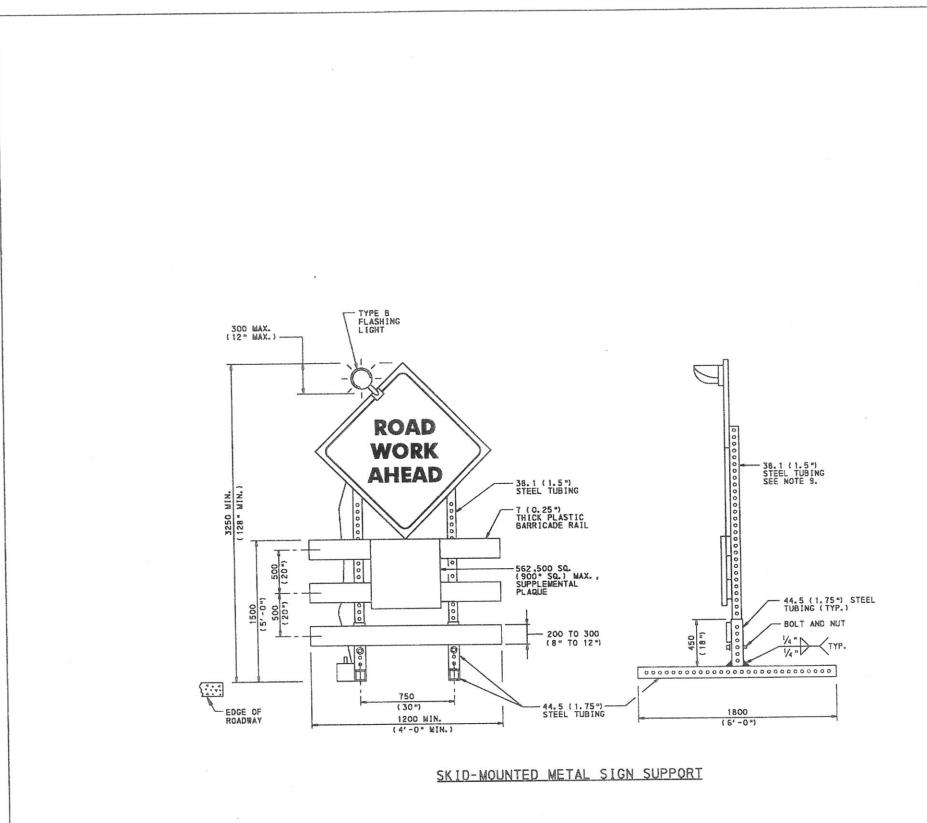
TL (TYP.) 90+800 90+800 GO + 000 SIGN 00+100 SIGN	
Solution Solut	
METRIC UNITS	
COMMONWEALTH OF PENNSYL DEPARTMENT OF TRANSPORTA bureau of highway safety and traffic engi	TION
SIGN LIGHTING PLA (SAMPLE DRAWING)	N
RECOMMENDED MAY 25, 2007 ALL C Power CHIEF, TRAFFIC ENGINEERING AND CHIEF HIGHWAY ENGINEER	sнт. з оғ 5 ТС-8715
OPERATIONS DIVISION	





CIRCUIT REQUIRED QUANTITIES - ENTIRE		
ITEM	QUANTITY	REMARKS
AWG 2, UNDERGROUND CABLE, COPPER, 1 CONDUCTOR	2190 FT.	
AWG 4, UNDERGROUND CABLE, COPPER, 1 CONDUCTOR	6588 FT.	
AWG 6, UNDERGROUND CABLE, COPPER, 1 CONDUCTOR	4350 FT.	
AWG 8, UNDERGROUND CABLE, COPPER, 1 CONDUCTOR	5090 FT.	
AWG 10, TYPE TC CABLE, COPPER, 2 CONDUCTOR	1500 FT.	FROM S.S.ENCLOSURE TO LUMINAIRE
CABLE & CONDUIT MARKER	4 EACH	
2" Ø DIRECT BURIAL CONDUIT	5730 FT.	
TRENCH	5730 FT.	
JUNCTION BOX JB-1	3 EACH	
JUNCTION BOX JB-12	6 EACH	





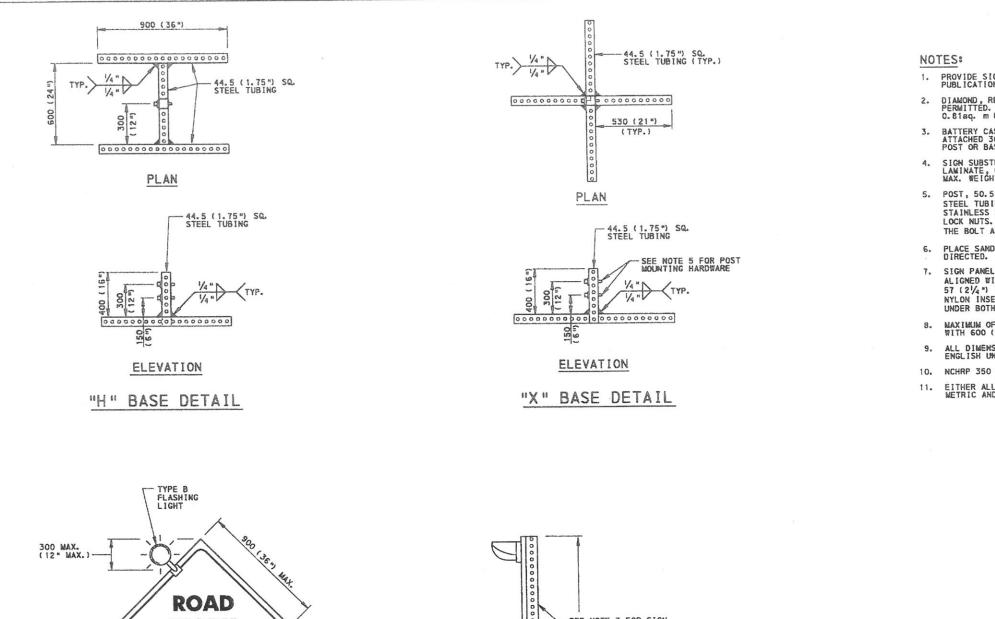
NOTES:

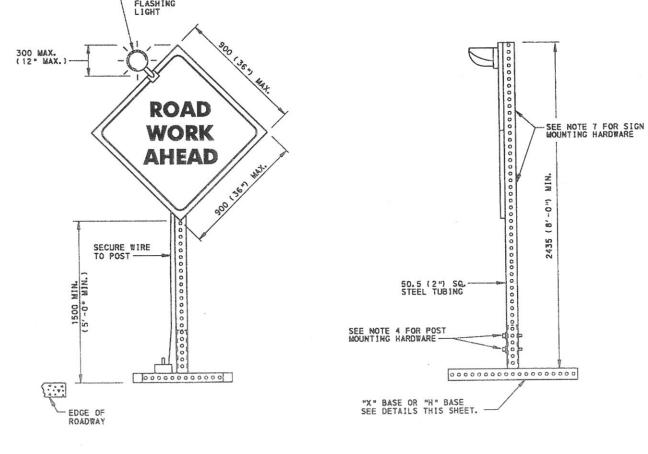
- PROVIDE SIGN MATERIALS MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 1103.4.
- DIAMOND, RECTANGULAR, OCTAGONAL AND TRIANGULAR SIGNS ARE PERWITTED. WHILE HAYING NO MAXIMUM AREA, THE MAXIMUM WEIGHT OF THE SIGN MAY NOT EXCEED 11.3 kg (25 lb).
- 3. MINIMUM MOUNTING HEIGHT TO TOP OF ALL SIGNS IS 3250 mm (128").
- 4. SUPPLEMENTAL PLAQUE IS TO BE MOUNTED AS SHOWN.
- BATTERY CASE MUST BE PLACED EITHER ON THE GROUND OR ATTACHED 300 (12") MAXIMUM ABOVE THE GROUND TO THE POST OR BASE LEG.
- SIGN SUBSTRATE MAY BE PLYWOOD, ALUMINUM, FLEXIBLE (RCLL-UP) ABS, ALUMINUM / PLASTIC LAMINATE, CORRUGATED POLYPROPOLYLENE OR POLYETHYLENE.
- PLACE SANDBAG BALLAST OR EQUAL ON BASE AS INDICATED OR DIRECTED.
- 8. SIGNS AND RAILS ARE TO BE ATTACHED WITH BOLTS AND NUTS.
- IF TURNED 90°, RETROREFLECTIVE SHEETING MUST BE PLACED ON THE SIDES SO THAT THE BARRICADE IS CLEARLY VISIBLY TO APPROACHING DRIVERS.
- 10. MAXIMUM OF TWO TYPE B WARNING LIGHTS ON ALL SIGNS ARE ALLOWED WITH 600 (24") SEPARATING LIGHTS ON ROAD CLOSED SIGNS.
- 11. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS SHOWN IN PARENTHESIS ( ).
- 12. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.



## TRAFFIC CONTROL SIGNING TYPE III BARRICADE

RECOMMENDED JUL. 18, 2008	RECOMMENDED JUL. 18, 2008	SHT. 1 OF 1
CRIEFY TRAFFIC ENGINEERING AND OPERATIONS DIVISION	ACTING DER. BUR. OF HIGHWAY SAFETY AND TRAFFIC ENGINEERING	TC-8716





 PROVIDE SIGN MATERIALS MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 1103.4.

 DIAMOND, RECTANGULAR, OCTAGONAL AND TRIANGULAR SIGNS ARE PERMITTED. THE MAXIMUM SIGN AREA SHALL NOT EXCEED 0.81sq. m (9 sq. ft.)

 BATTERY CASE MUST BE PLACED EITHER ON THE GROUND OR ATTACHED 300 (12") MAXIMUM ABOVE THE GROUND TO THE POST OR BASE LEG.

 SIGN SUBSTRATE MAY BE PLYWOOD, ALUMINUM, ALUMINUM / PLASTIC LAMINATE, CORRUGATED POLYPROPOLYLENE OR POLYETHYLENE, MAX. WEIGHT 6.8 kgs (15 lbs).

5. POST, 50.5 (2") STEEL TUBING SLIDES OVER BASE STUB, 44.5 (1.75") STEEL TUBING FASTENED WITH 8 (5/16") DIAMETER 57 (2<sup>1</sup>/<sub>4</sub>") LONG STAINLESS STEEL OR GRADE 5 ZINC PLATED BOLTS AND NYLON INSERT LOCK NUTS. USE 9.5 (%") STEEL AND NYLON WASHERS UNDER BOTH THE BOLT AND NUT.

 PLACE SANDBAG BALLAST OR EQUAL ON BASE AS INDICATED OR DIRECTED.

7. SIGN PANEL IS PLACED ON THE VERTICAL SIGN POST WITH TOP EDGE ALIGNED WITH POST TOP END AND FASTENED WITH 8 (% ") DIAMETER 57 (2¼") LONG NYLON 6/6 FULLY THREADED HEX HEADED BOLTS AND NYLON INSERT LOCK NUTS. USE 9.5 (%") STEEL AND NYLON WASHERS UNDER BOTH THE BOLT AND MUT.

 MAXIMUM OF TWO TYPE B WARNING LIGHTS ON ALL SIGNS ARE ALLOWED WITH 600 (24") SEPARATING LIGHTS ON ROAD CLOSED SIGNS.

9. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ENGLISH UNITS SHOWN IN PARENTHESIS ( ).

10. NCHRP 350 TEST LEVEL 3 CRASH TESTED AND APPROVED.

11. EITHER ALL METRIC OR ALL ENGLISH UNITS MUST BE USED ON PLANS. METRIC AND ENGLISH UNITS SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLV DEPARTMENT OF TRANSPORTAT BURBAU OF HIGHWAY SAFETY AND TRAFFIC ENGINE	TION
TEMPORARY PORTABLE SIGN POST	
"H" BASE AND "X" BAS	SE
RECOMMENDED JUL. 18, 2008 RECOMMENDED JUL. 18, 2008	SHT. 1 OF 1
RETEF, TRAFFIC ENGINEERING AND ACTING DAR. BOR. OF HIGHWAY OPERATIONS DIVISION SAFETY AND TRAFFIC ENGINEERING	TC-8717