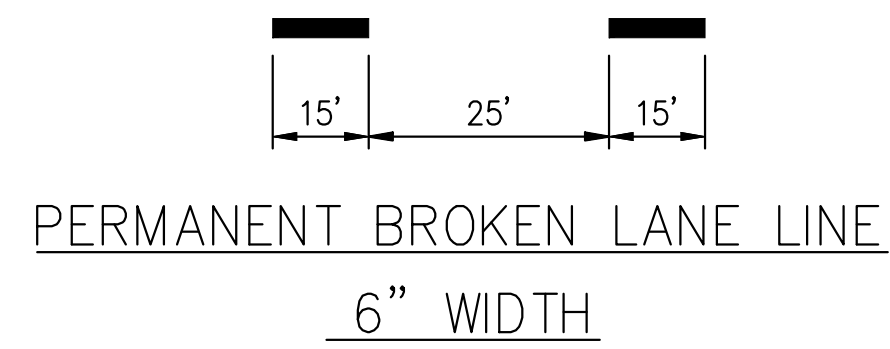
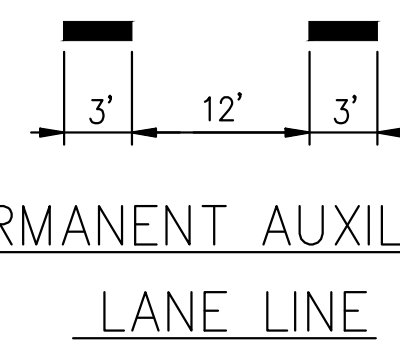


SHOULDER CROSSHATCHING FOR EXTRA WIDE SHOULDERS (>18')



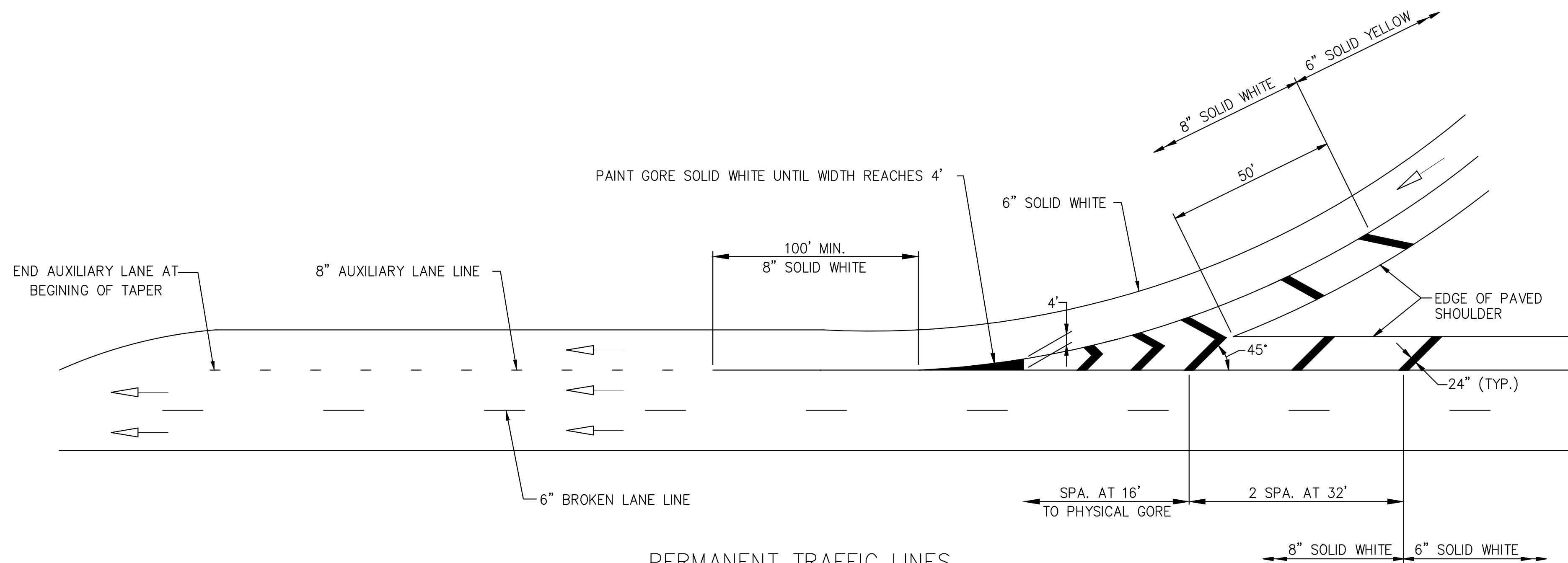
PERMANENT BROKEN LANE LINE

6" WIDTH

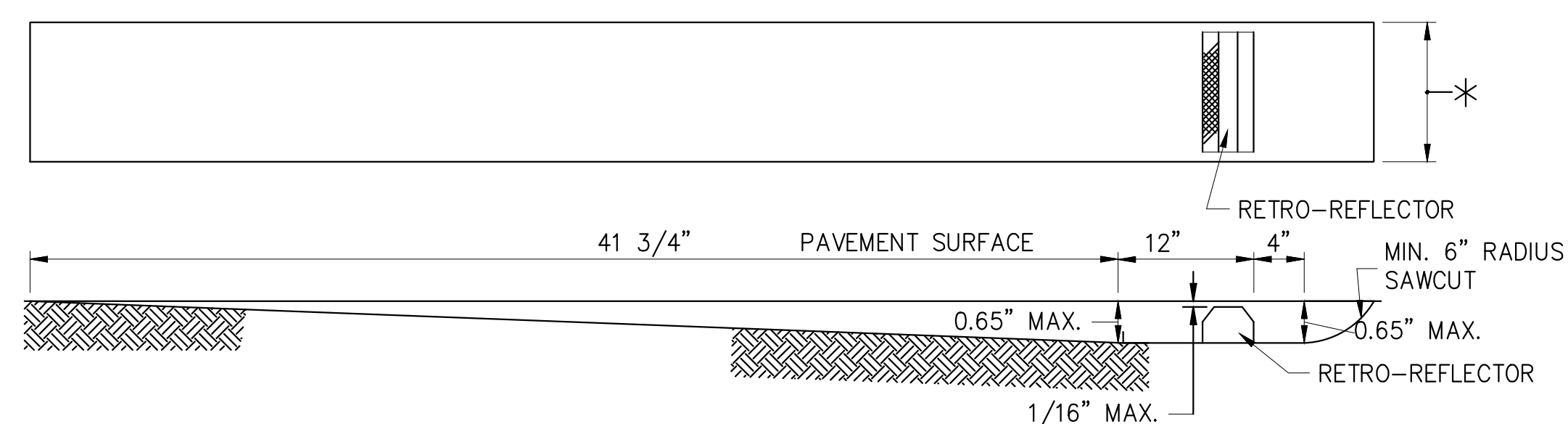
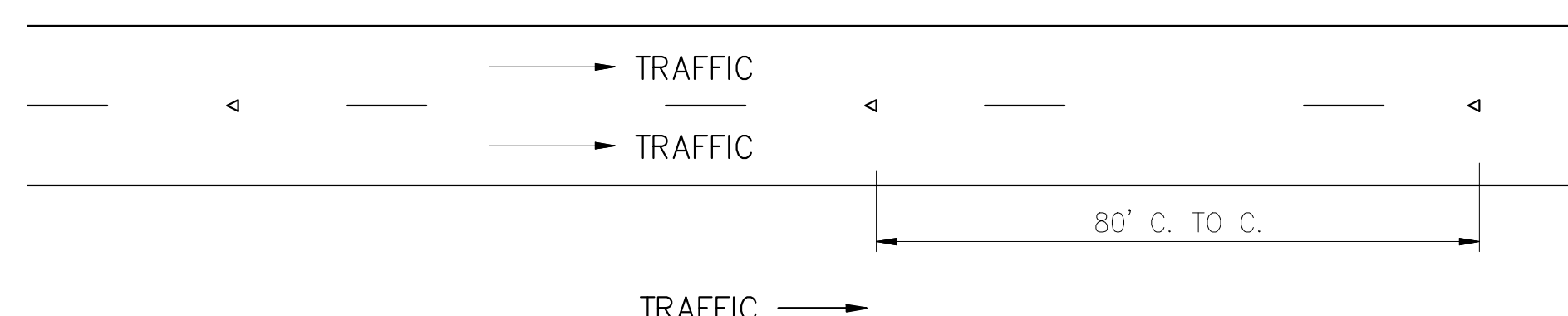


PERMANENT AUXILIARY LANE LINE

8" WIDTH



PERMANENT TRAFFIC LINES WITH ACCELERATION RAMP



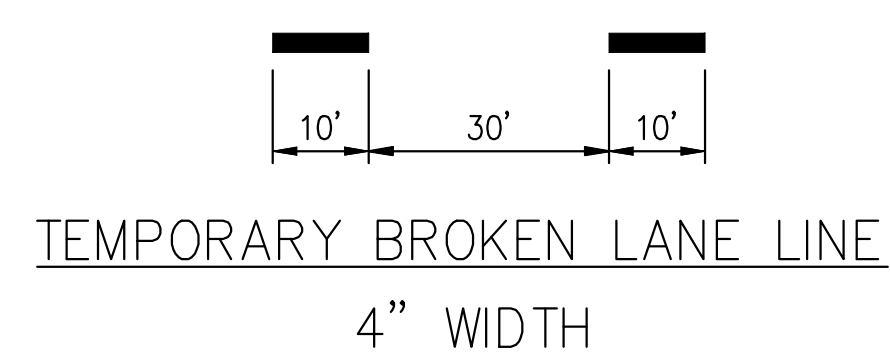
NOTES:

1. RETRO-REFLECTOR (COMMISSION APPROVED) IS 2 1/4" WIDE.
2. KEEP RETRO-REFLECTOR AT THE FAR RIGHT OF THE 12" AREA.
- * 3. WIDTH OF CUT IS EQUAL TO WIDTH OF RETRO-REFLECTOR PLUS 1/8".
4. ATTACH RETRO-REFLECTOR TO ROAD SURFACE WITH MANUFACTURER APPROVED EPOXY ADHESIVE.

INSTALLATION OF RECESSED REFLECTIVE PAVEMENT MARKERS

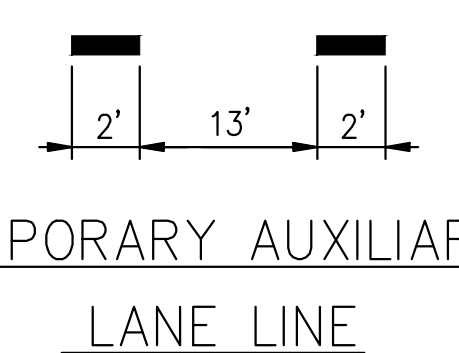
NOTES:

1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.



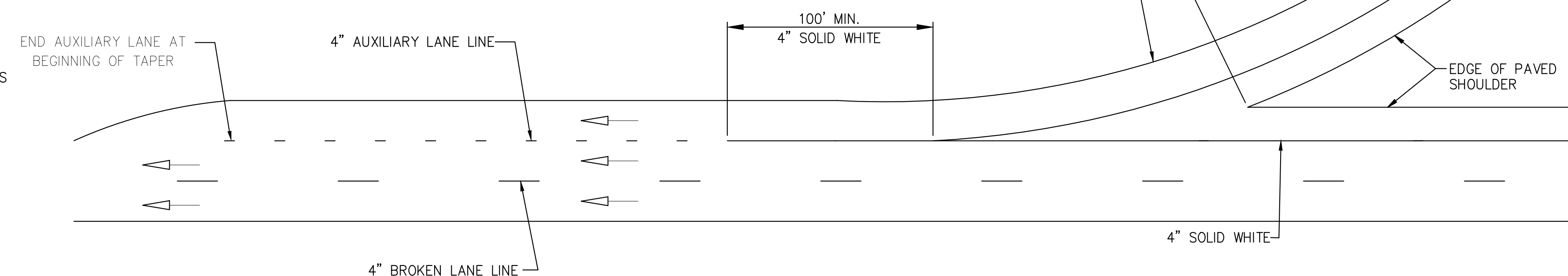
TEMPORARY BROKEN LANE LINE

4" WIDTH



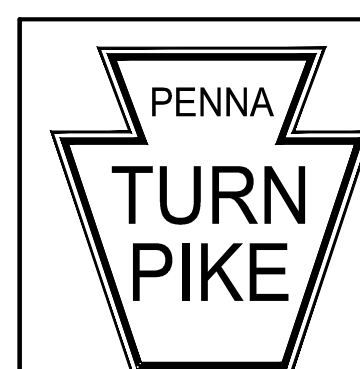
TEMPORARY AUXILIARY LANE LINE

4" WIDTH



TEMPORARY TRAFFIC LINES WITH ACCELERATION RAMP

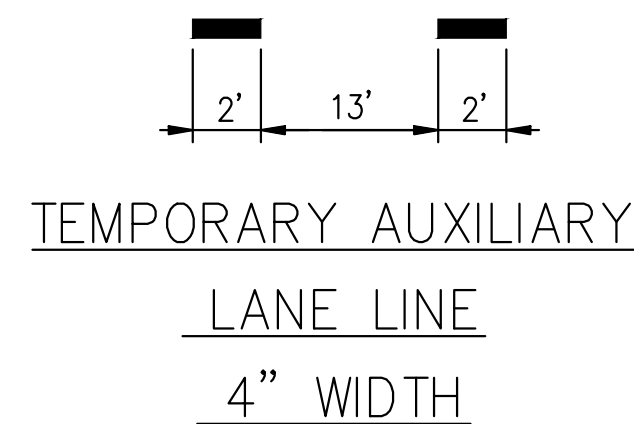
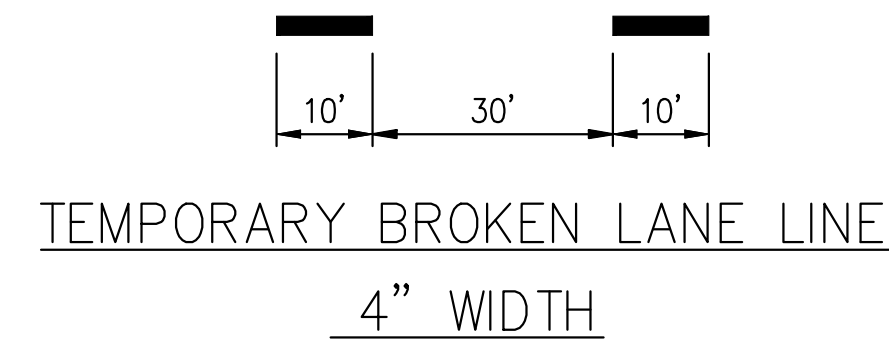
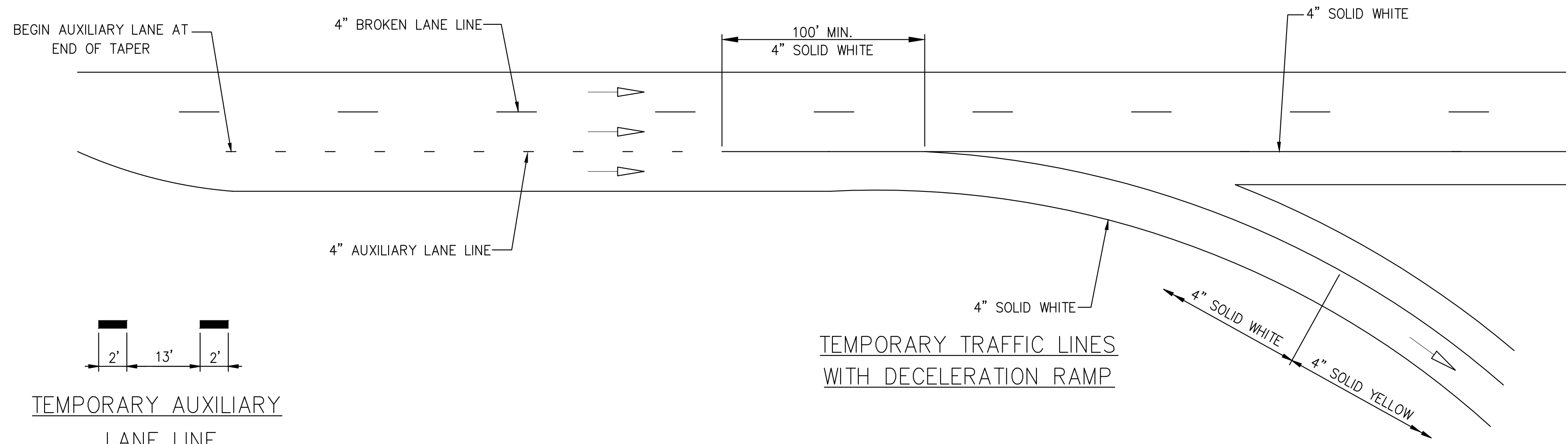
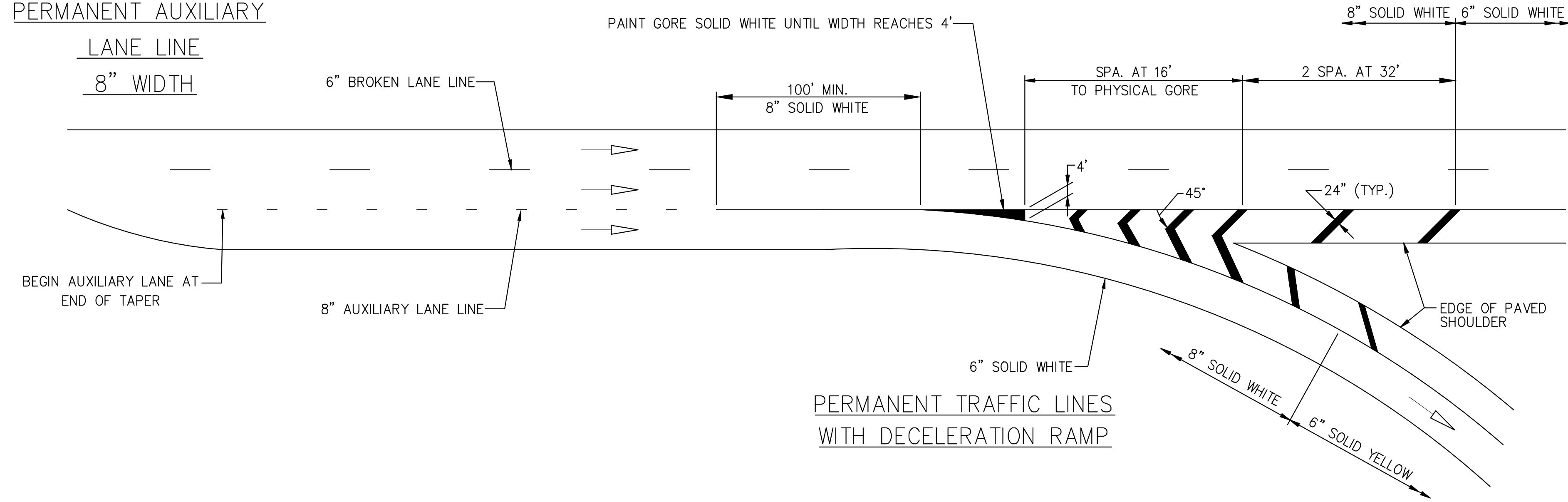
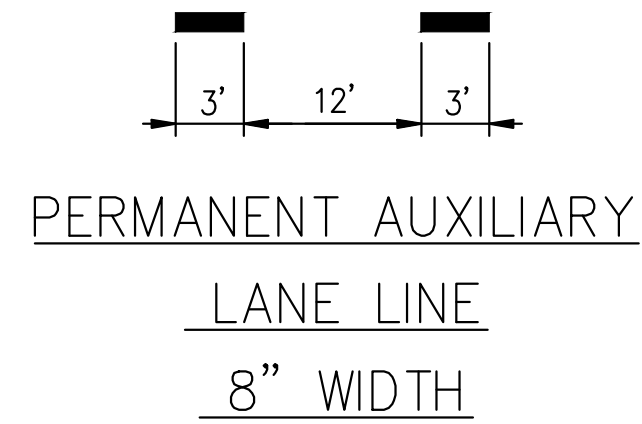
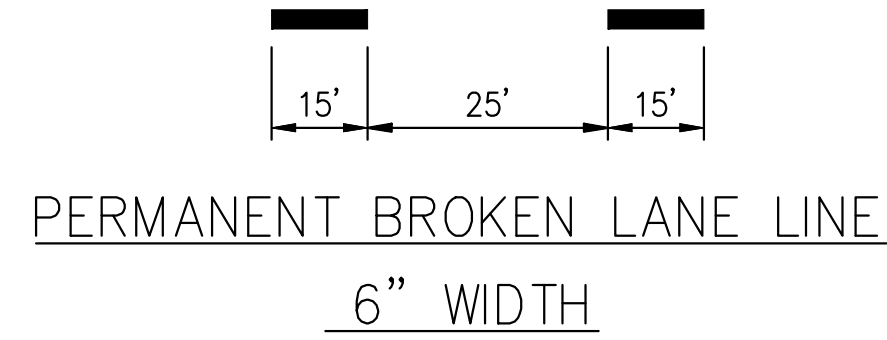
GORE STRIPING DETAILS



RECOMMENDED: MAY 3, 2024
Chris V. ...
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR DECELERATION RAMP

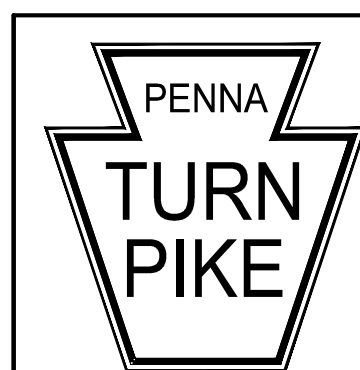
PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-1.dwg	SHEET 1 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



GORE STRIPING DETAILS

NOTES:

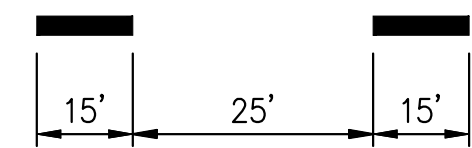
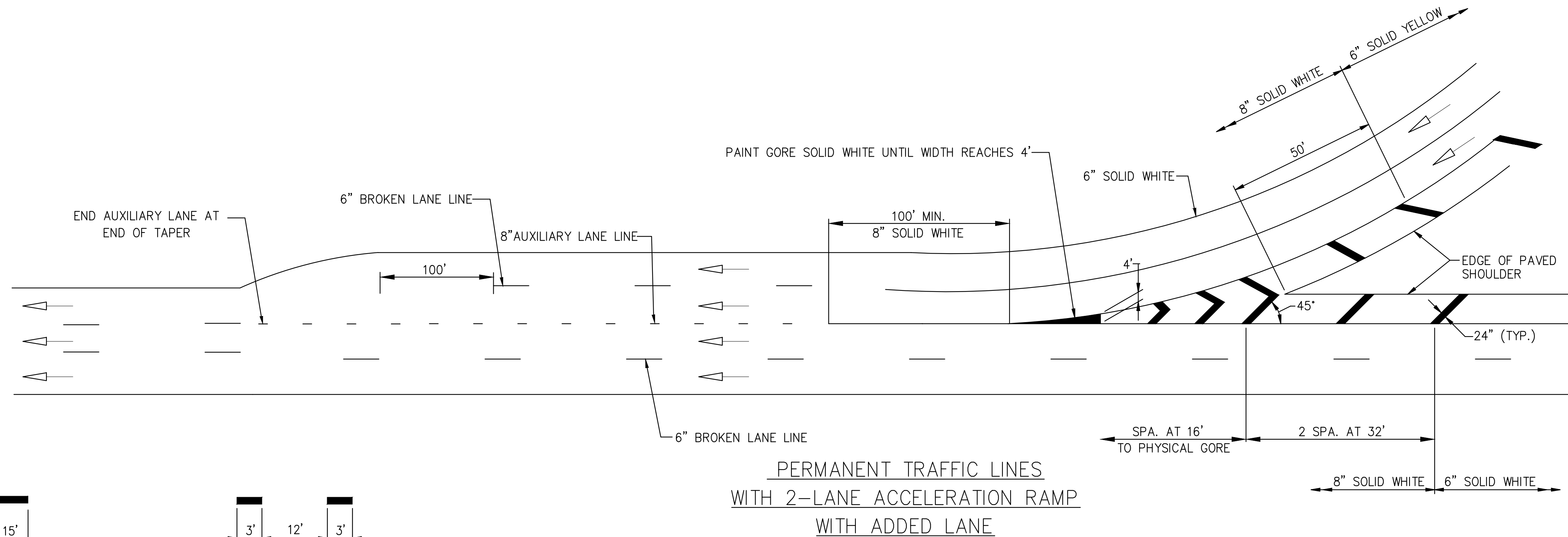
1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.



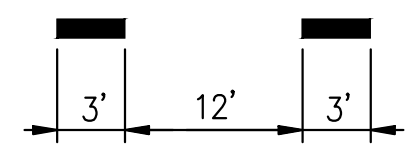
RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR DECELERATION RAMP

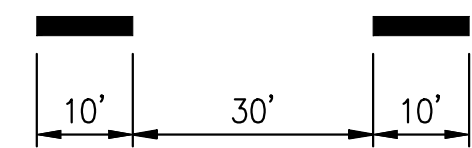
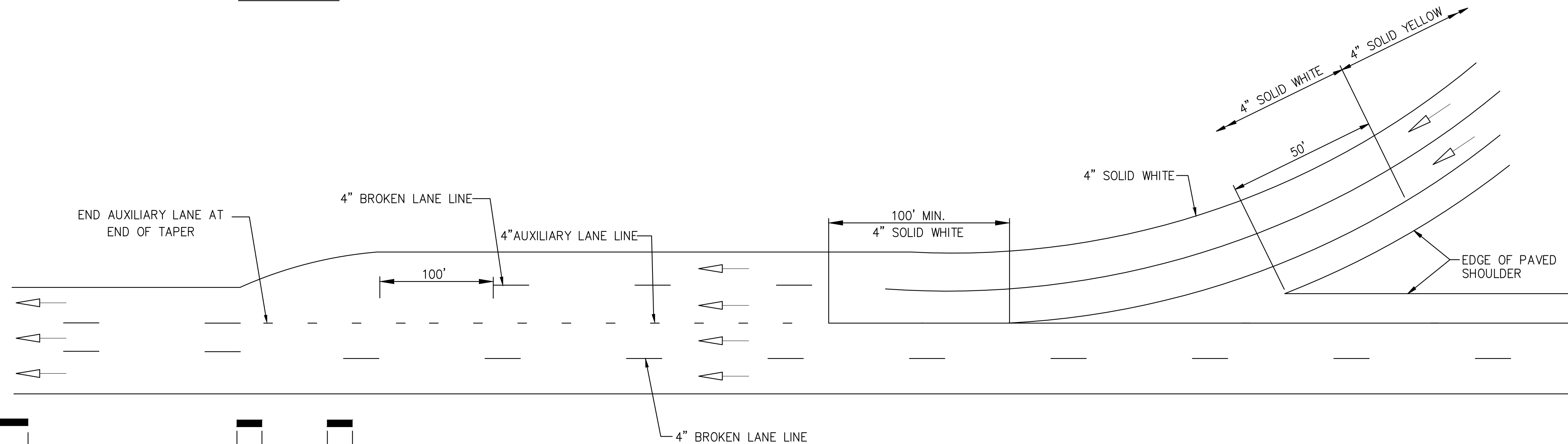
PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-2.dwg	SHEET 2 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



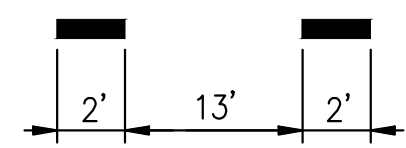
PERMANENT BROKEN LANE LINE
6" WIDTH



PERMANENT AUXILIARY
LANE LINE
8" WIDTH



TEMPORARY BROKEN LANE LINE
4" WIDTH

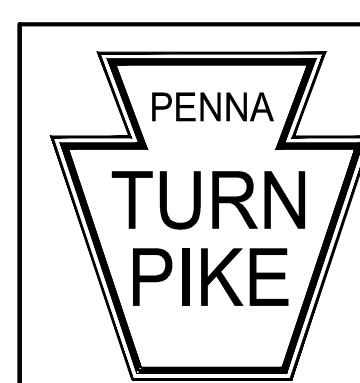


TEMPORARY AUXILIARY
LANE LINE
4" WIDTH

GORE STRIPING DETAILS

NOTES:

1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.



RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: *[Signature]* MAY 3, 2024
 CHIEF ENGINEER

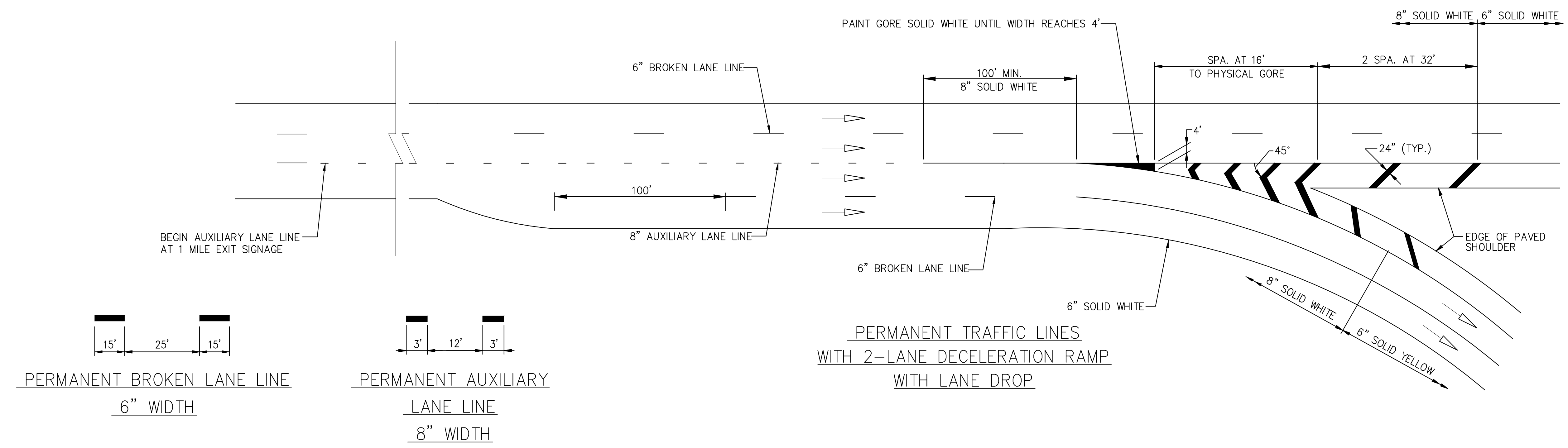
CONSTRUCTION AND MAINTENANCE
 STRIPING DETAILS FOR
 TWO LANE ACCELERATION RAMP
 WITH ADDED LANE

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

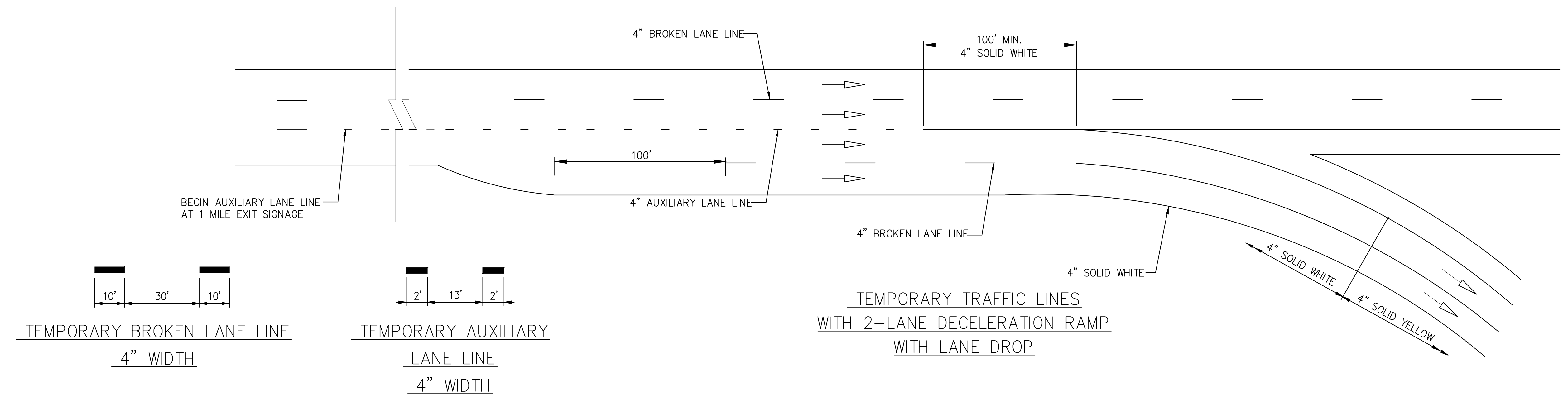
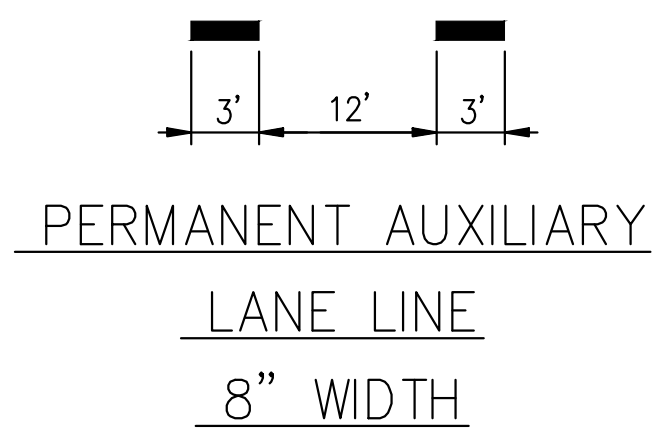
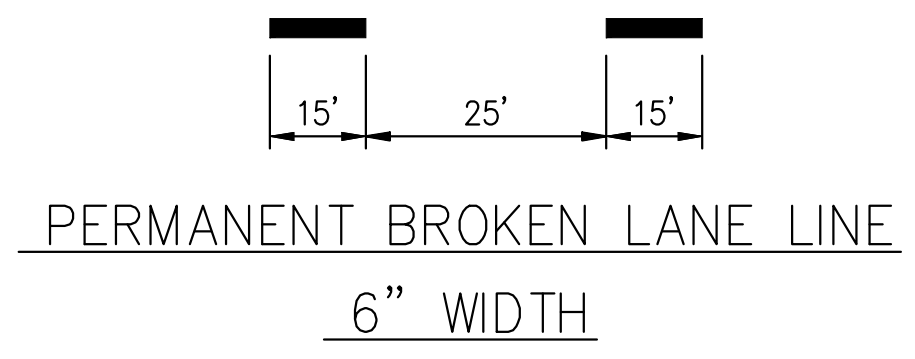
FILE NAME: PTS-980-3.dwg
 DRAWING TYPE: 5A

SHEET 3 OF 41

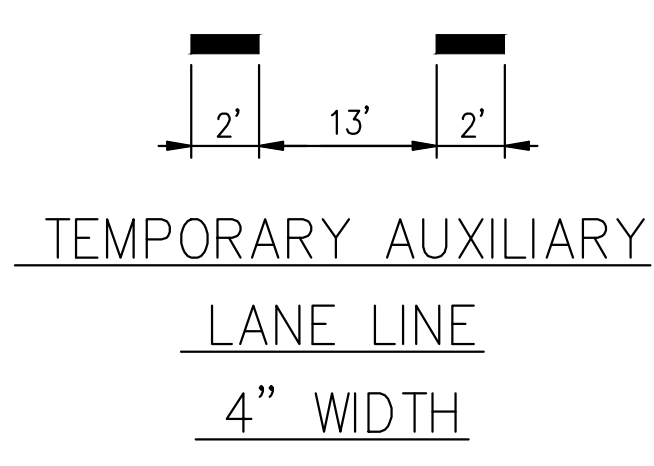
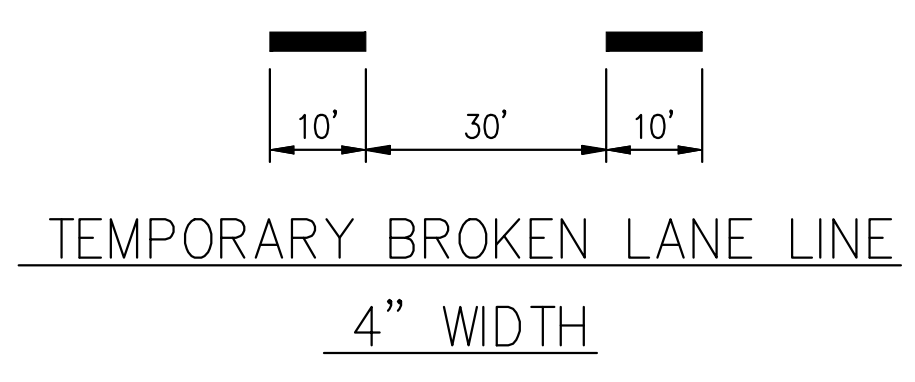
DATE: APRIL 2024
 PTS-980



PERMANENT TRAFFIC LINES
WITH 2-LANE DECELERATION RAMP
WITH LANE DROP

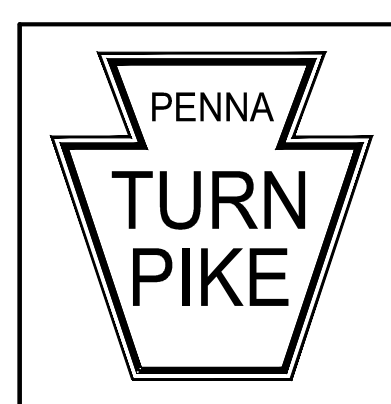


TEMPORARY TRAFFIC LINES
WITH 2-LANE DECELERATION RAMP
WITH LANE DROP



GORE STRIPING DETAILS

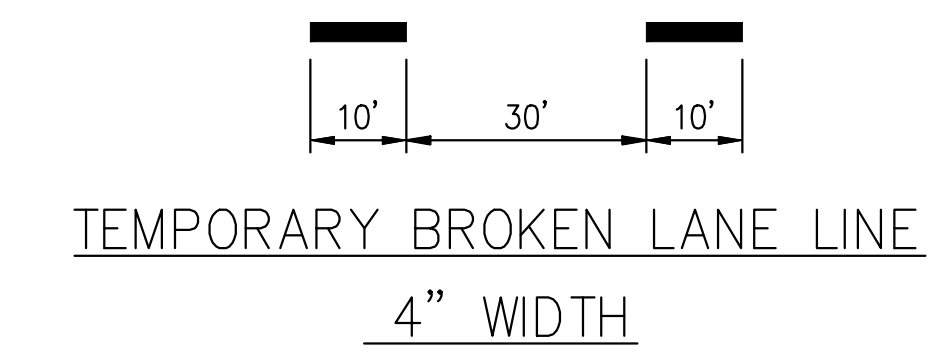
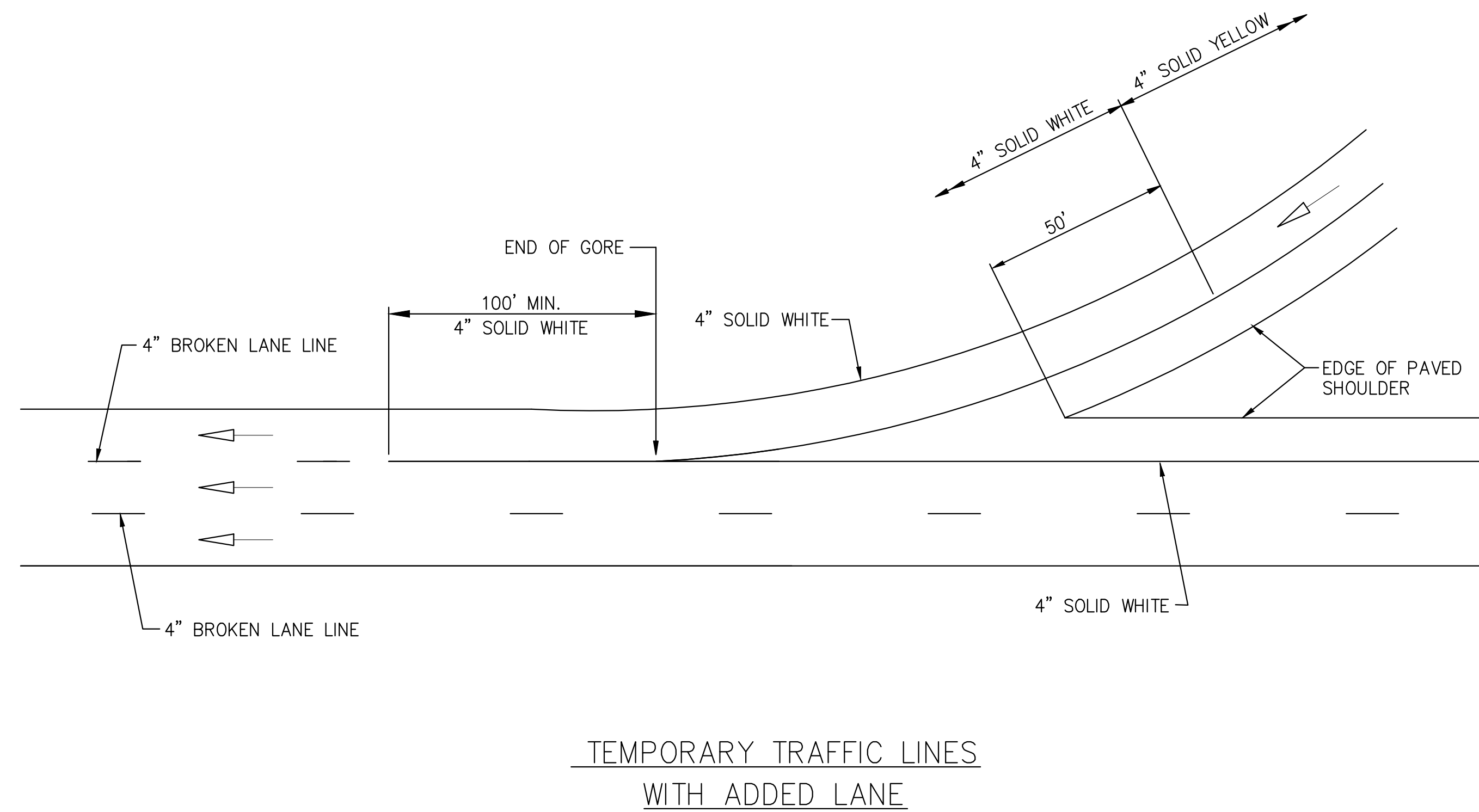
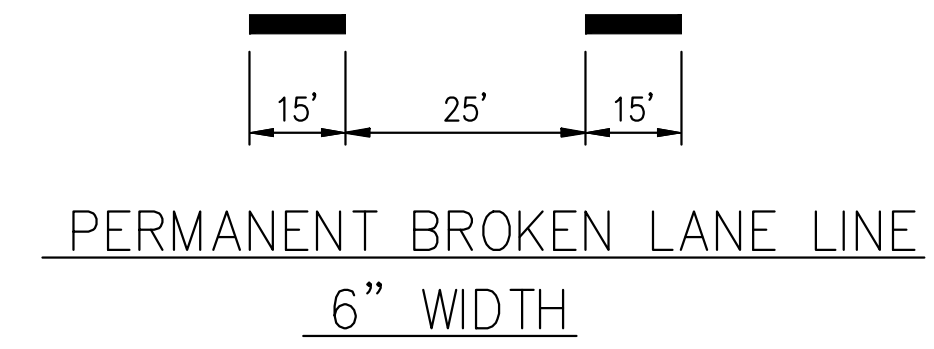
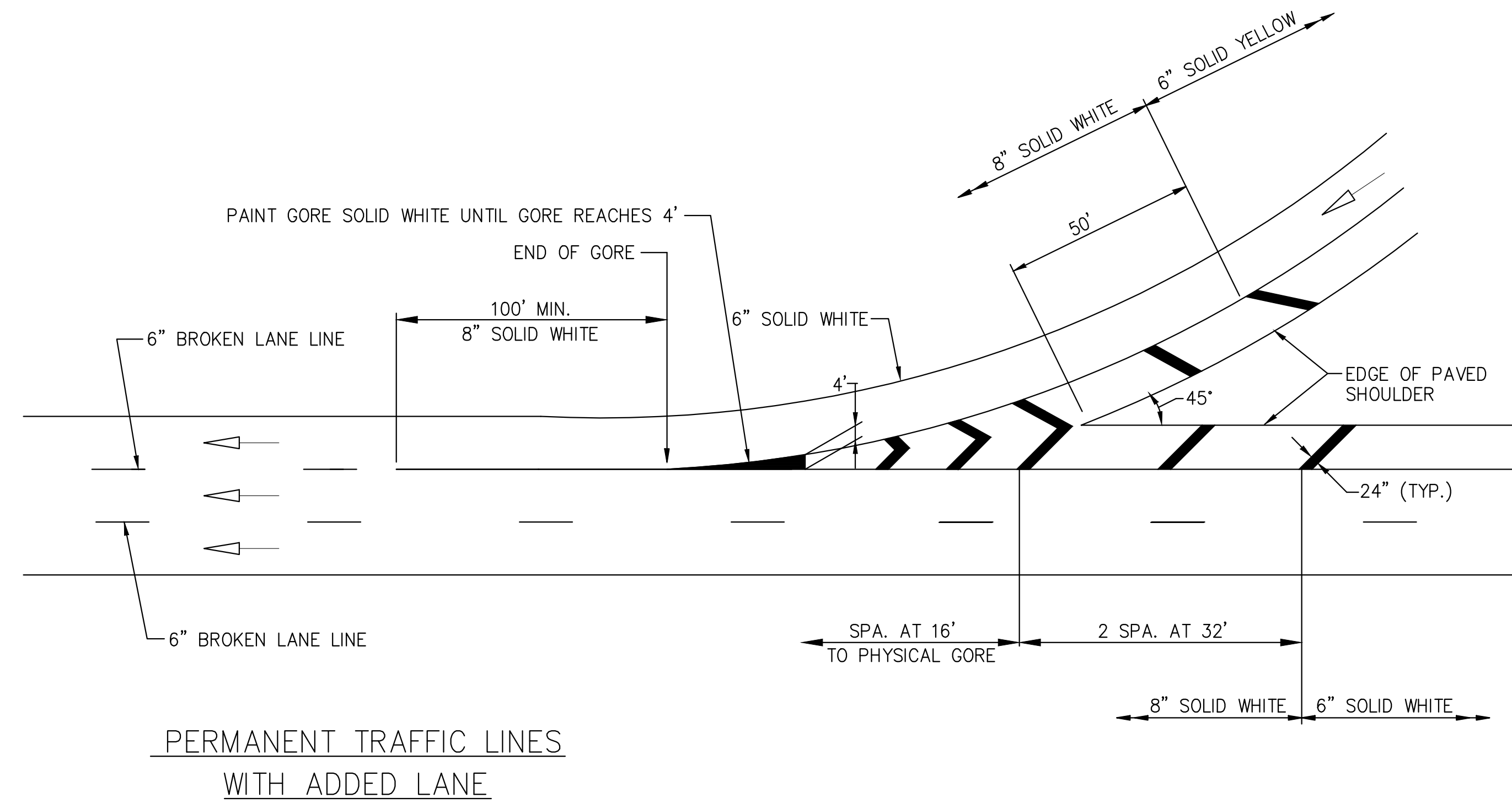
- NOTES:
1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
 2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.



RECOMMENDED: MAY 3, 2024
Chris V. [Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

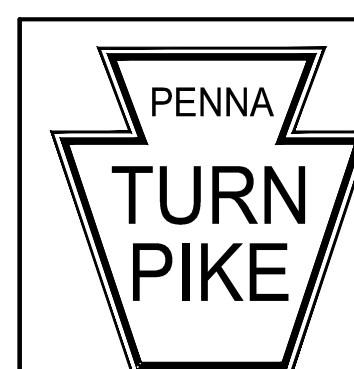
**CONSTRUCTION AND MAINTENANCE
STRIPING DETAILS FOR
TWO LANE DECELERATION
RAMP WITH LANE DROP**

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-4.dwg	SHEET 4 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



NOTES:

1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.



RECOMMENDED: MAY 3, 2024

[Signature]

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: MAY 3, 2024

[Signature]

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
STRIPING DETAILS FOR
ADDED LANES

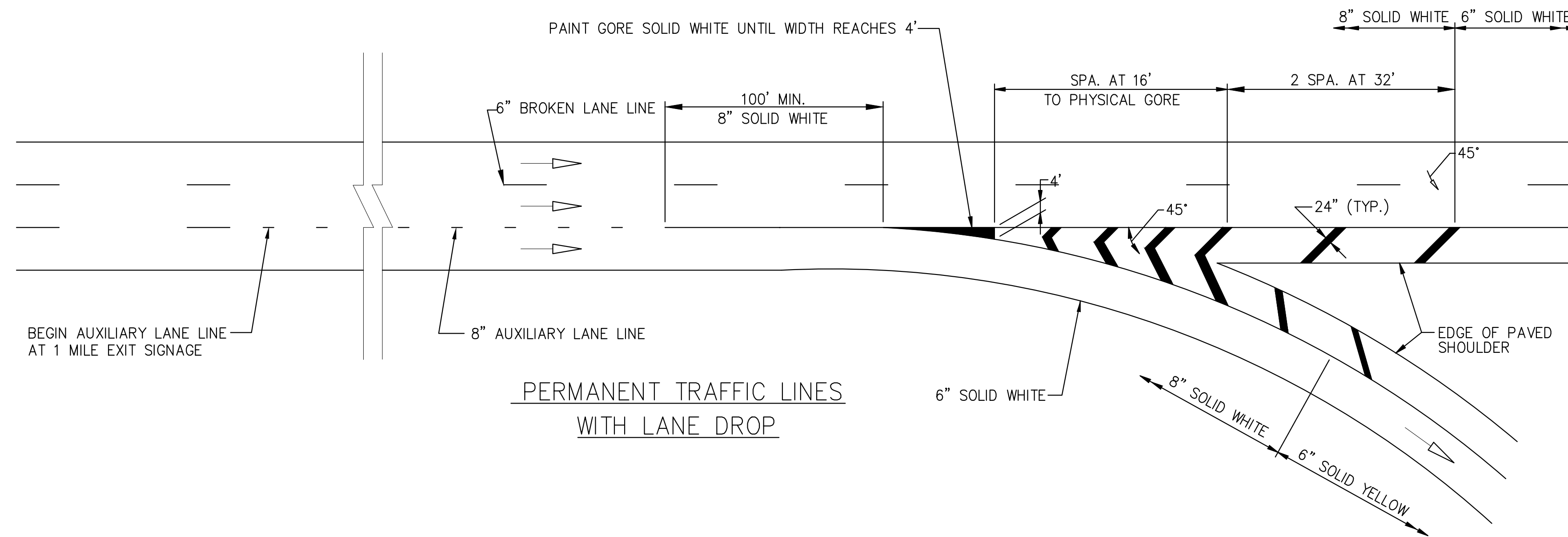
PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

FILE NAME: PTS-980-5.dwg
DRAWING TYPE: 5A

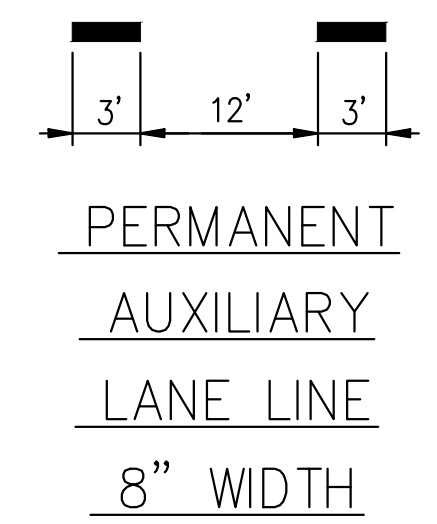
SHEET 5 OF 41

DATE: APRIL 2024

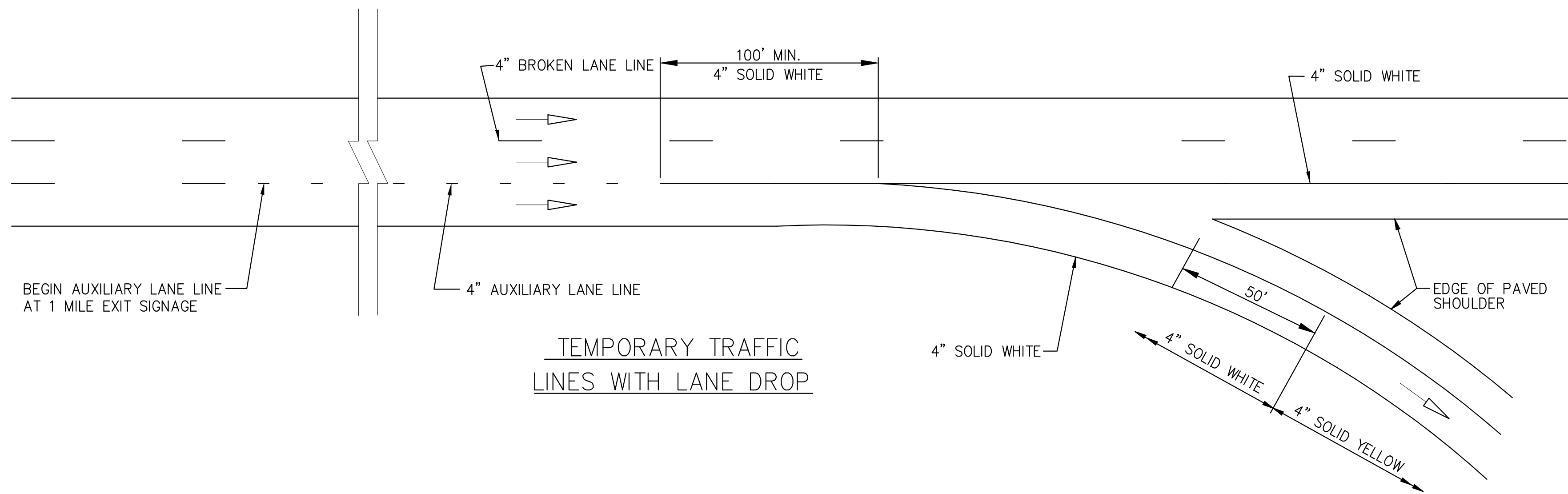
PTS-980



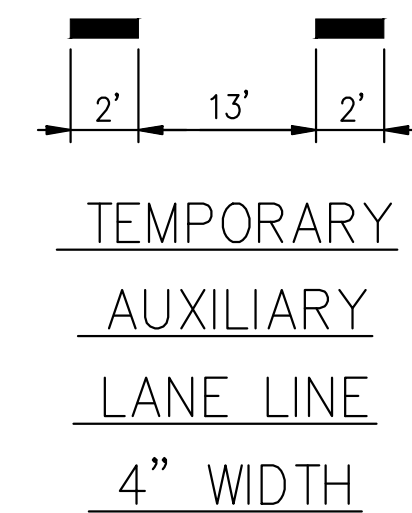
PERMANENT TRAFFIC LINES WITH LANE DROP



PERMANENT AUXILIARY LANE LINE 8" WIDTH



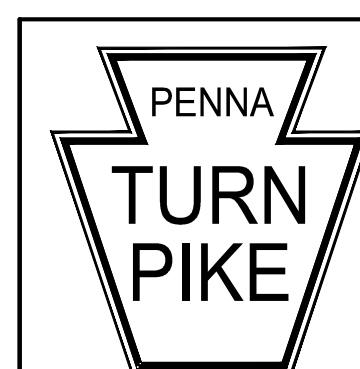
TEMPORARY TRAFFIC LINES WITH LANE DROP



TEMPORARY AUXILIARY LANE LINE 4" WIDTH

NOTES:

1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.

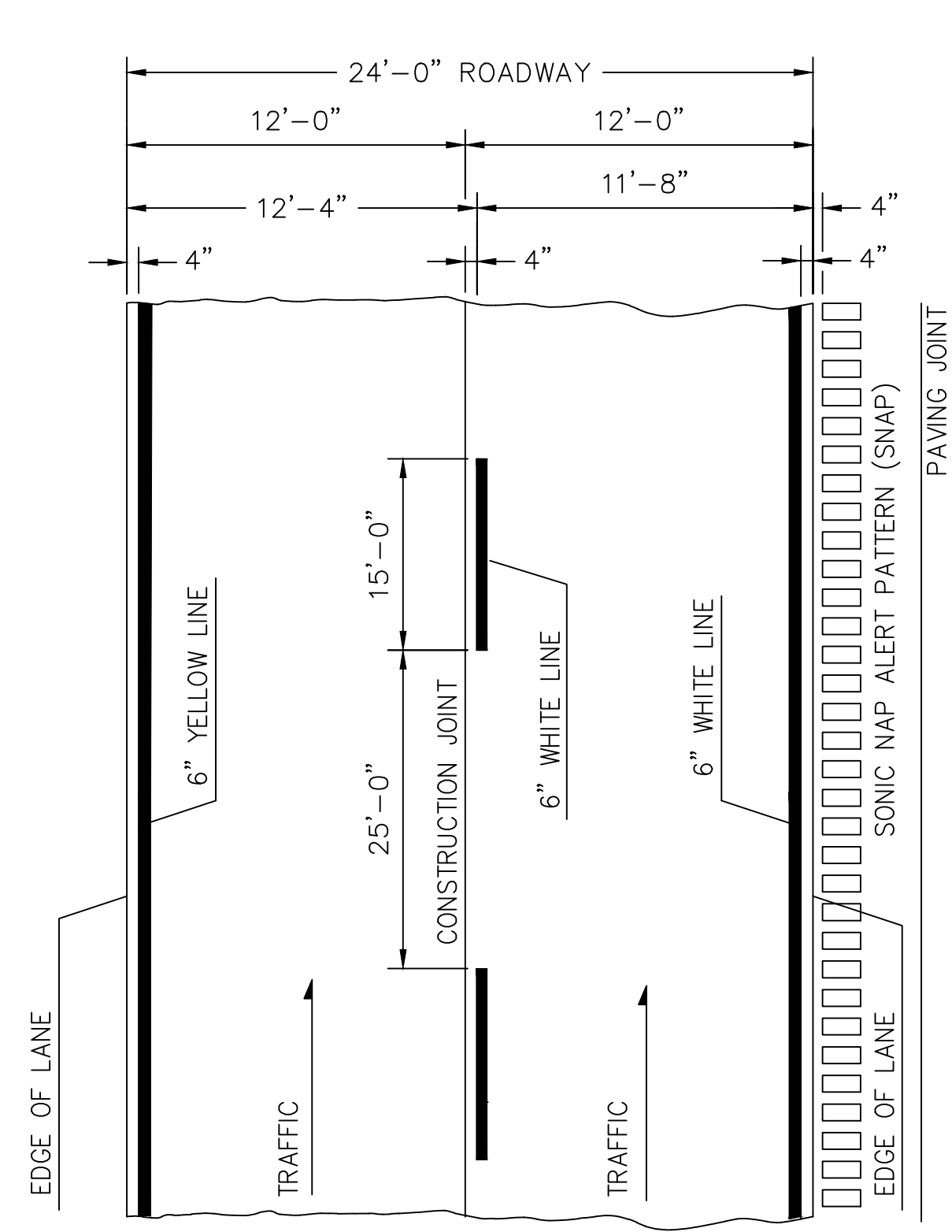


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

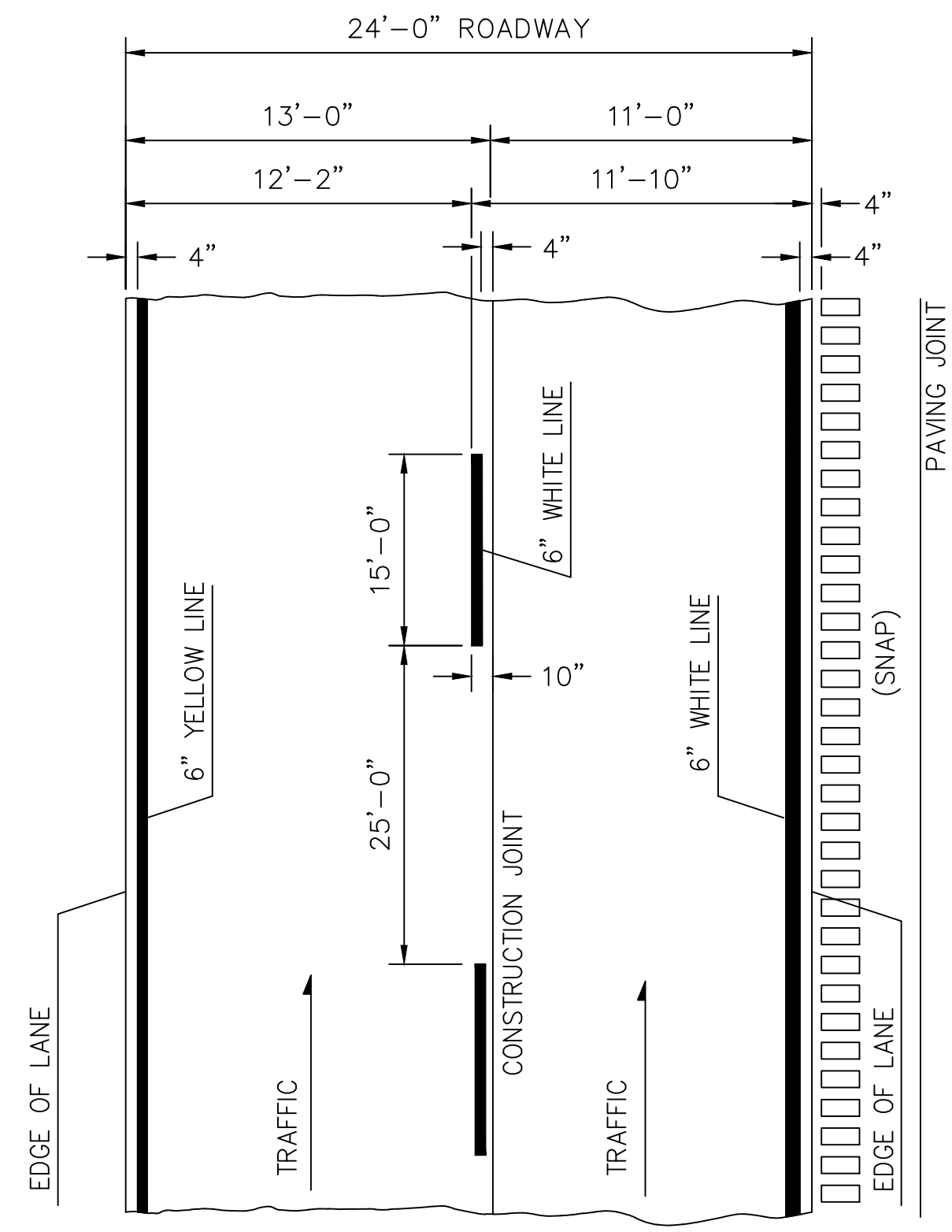
CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR ADDED LANES

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING

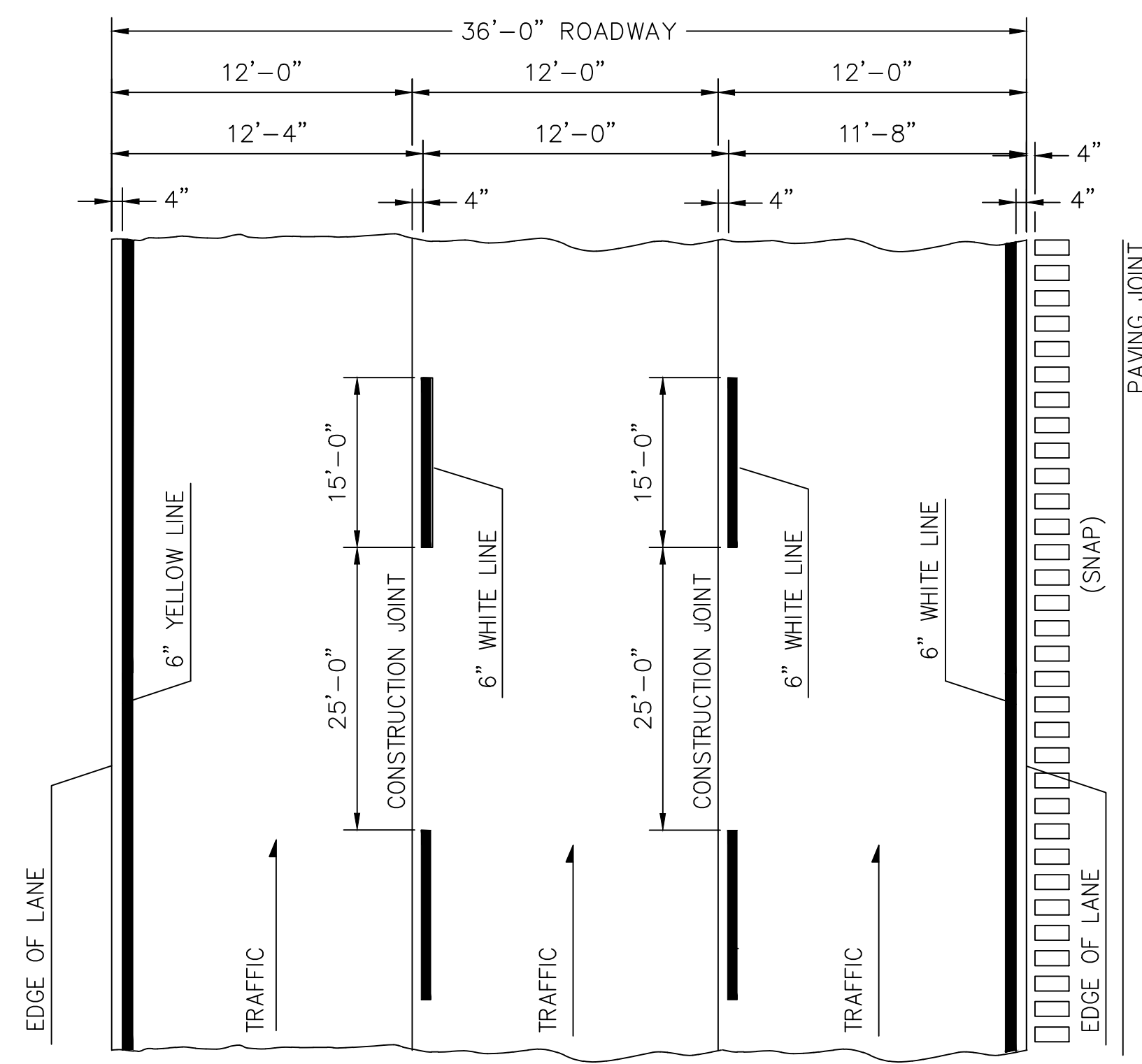
FILE NAME: PTS-980-6.dwg	SHEET 6 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



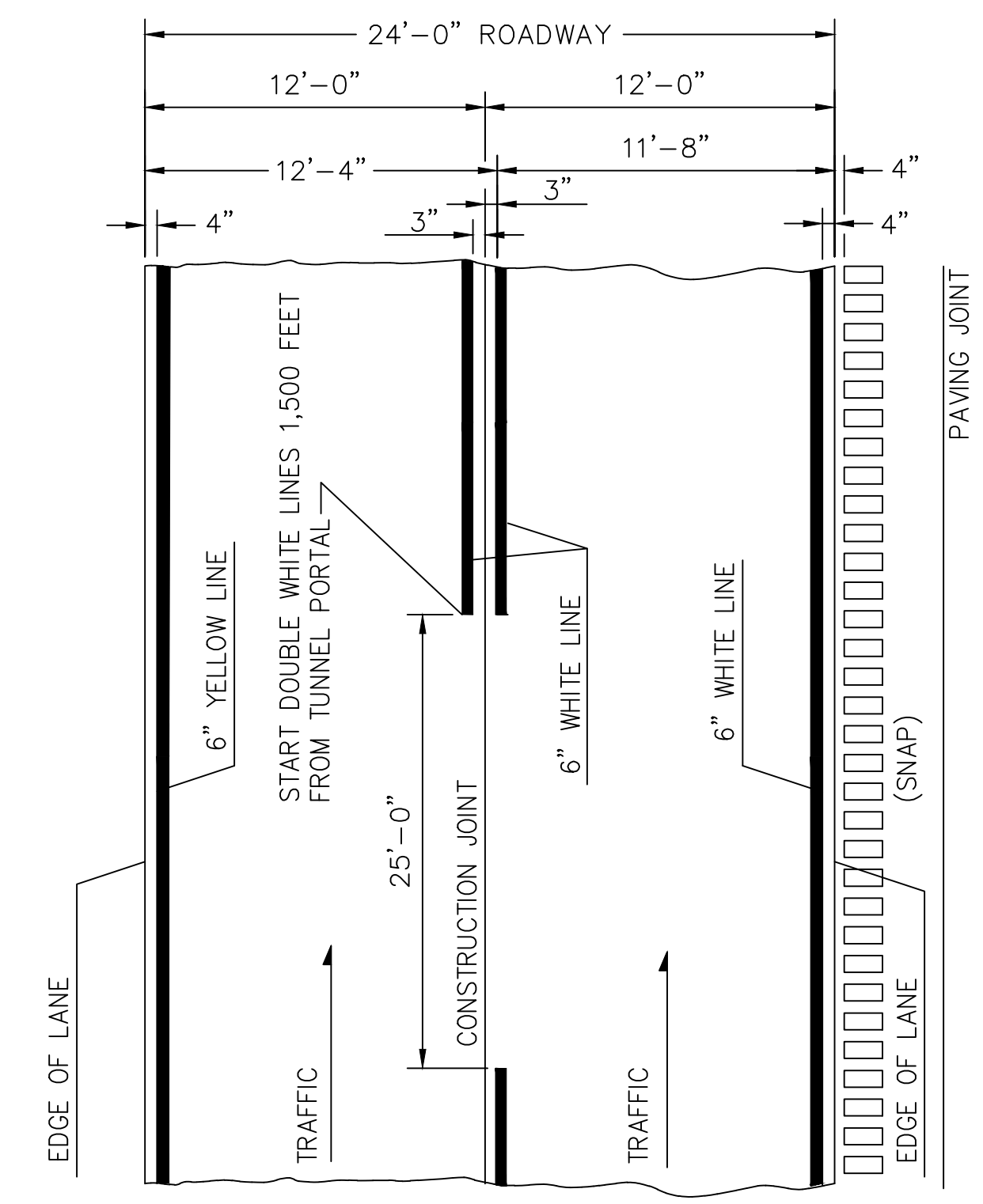
2 LANES



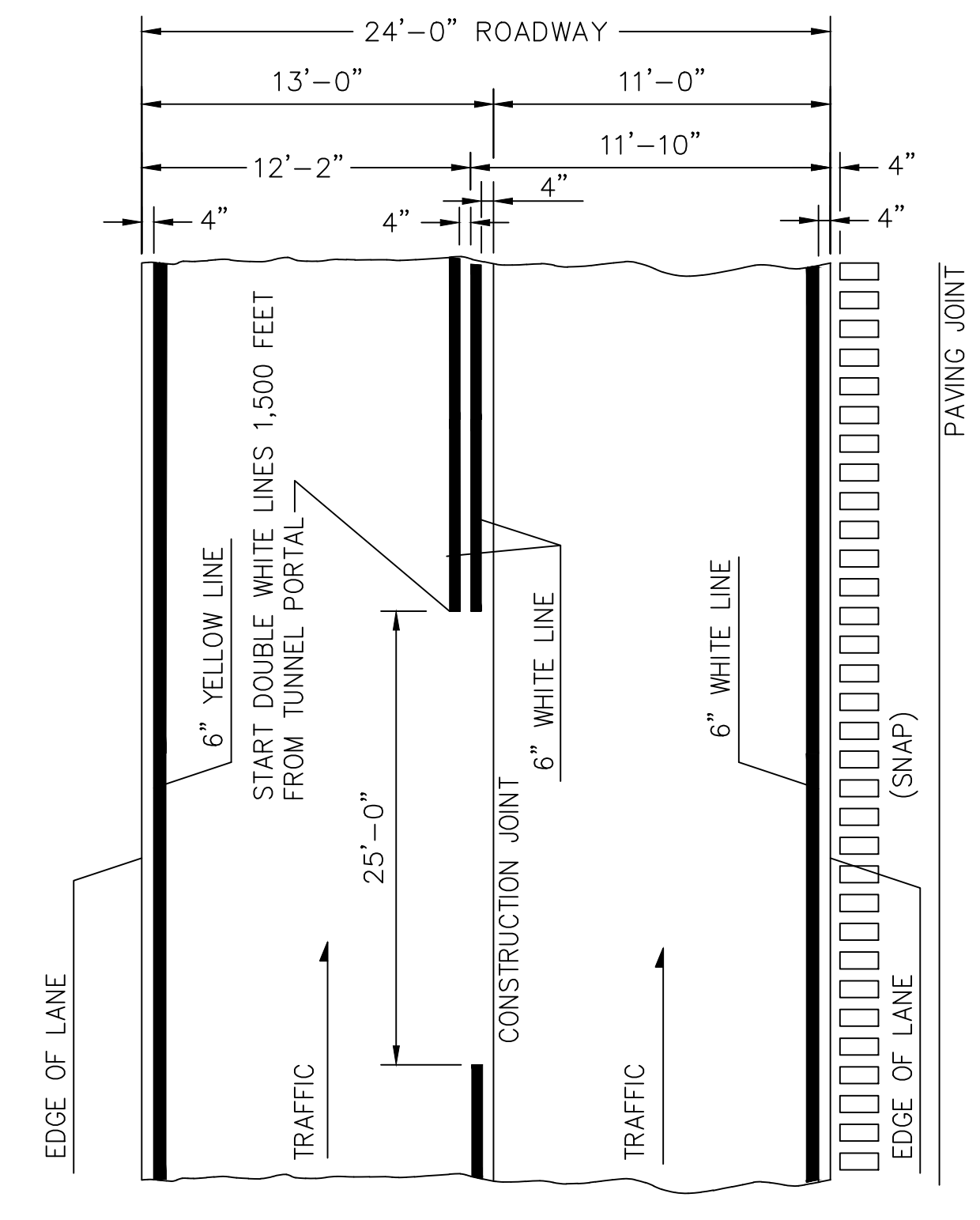
2 LANES - NORTHEAST EXTENSION



3 LANES



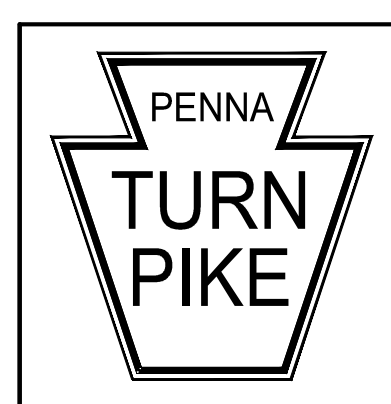
2 LANES - TUNNEL ENTRANCE



2 LANES - LEHIGH TUNNEL ENTRANCE

NOTES:

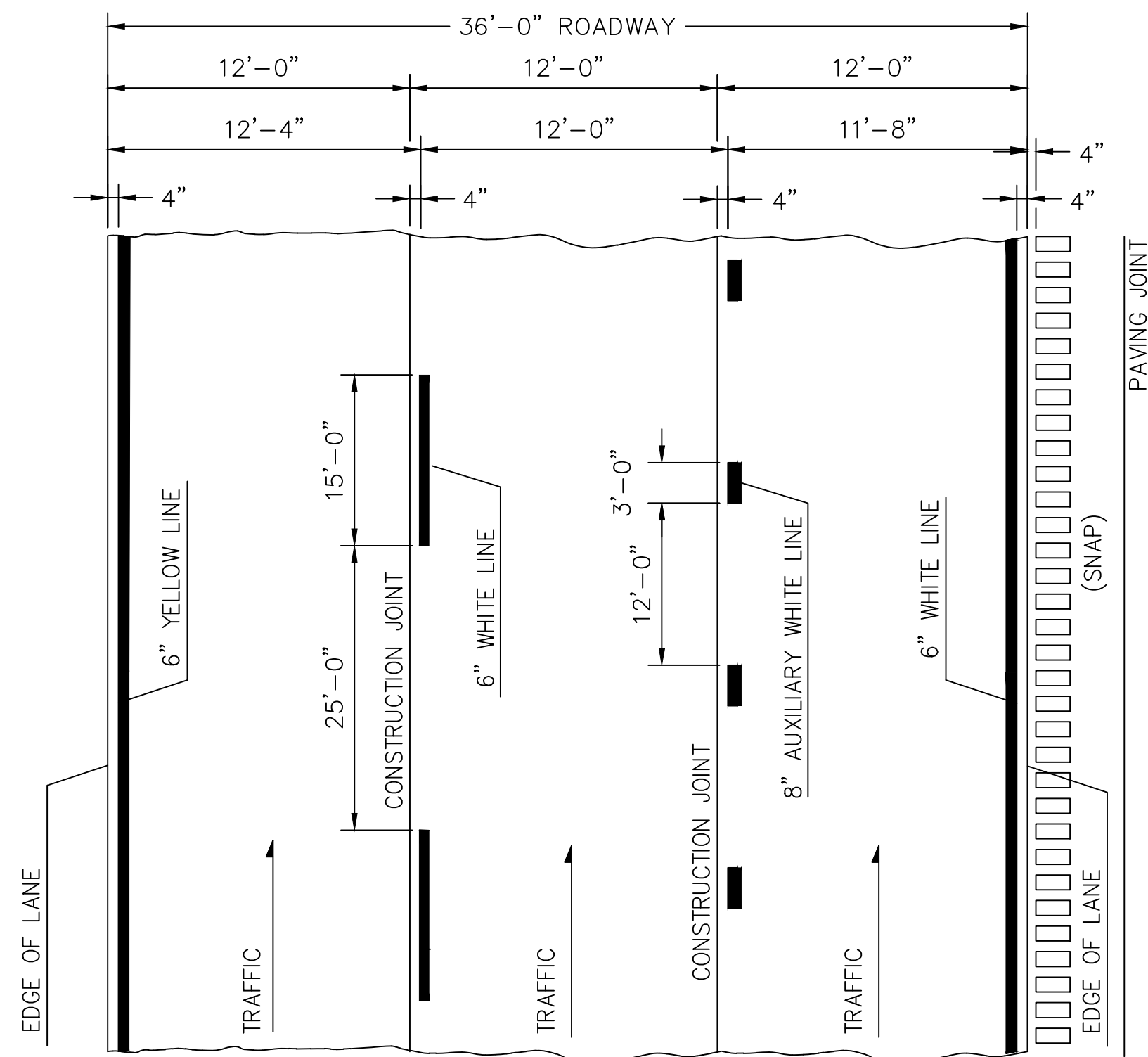
- REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).



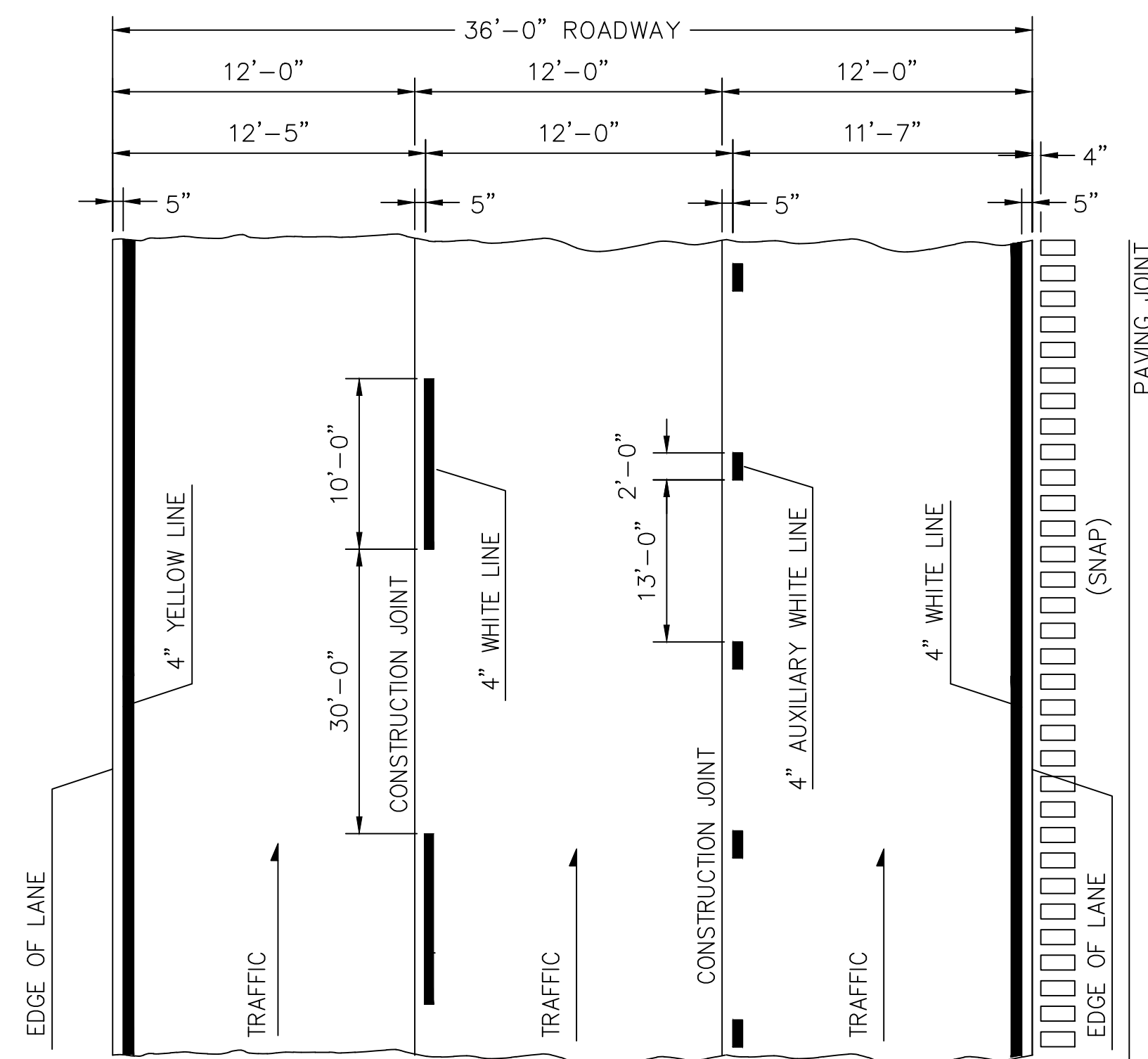
RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: *[Signature]* MAY 3, 2024
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE
 PERMANENT TRAFFIC LINE MARKING
 DETAILS**

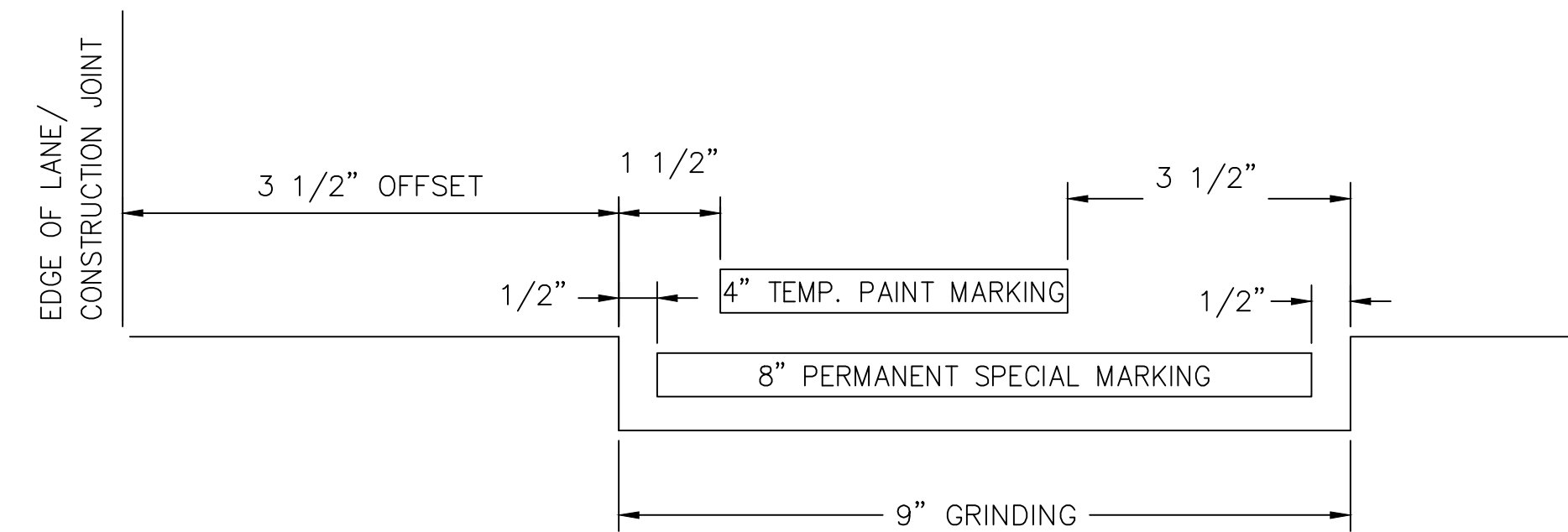
PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-7.dwg	SHEET 7 OF 41
DRAWING TYPE: DETAILS	
DATE: APRIL 2024	PTS-980



PERMANENT LANE DROP

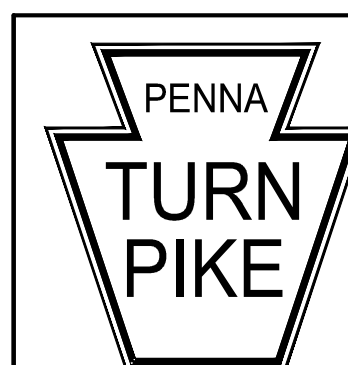


TEMPORARY LANE DROP



NOTES:

1. LOCATION OF TEMPORARY PAVEMENT MARKINGS AND WORK ZONE LANE WIDTHS ARE PROJECT DEPENDENT. REFER TO THE MAINTENANCE AND PROTECTION OF TRAFFIC SPECIAL PROVISION AND THE PROJECT PLANS.
2. REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).

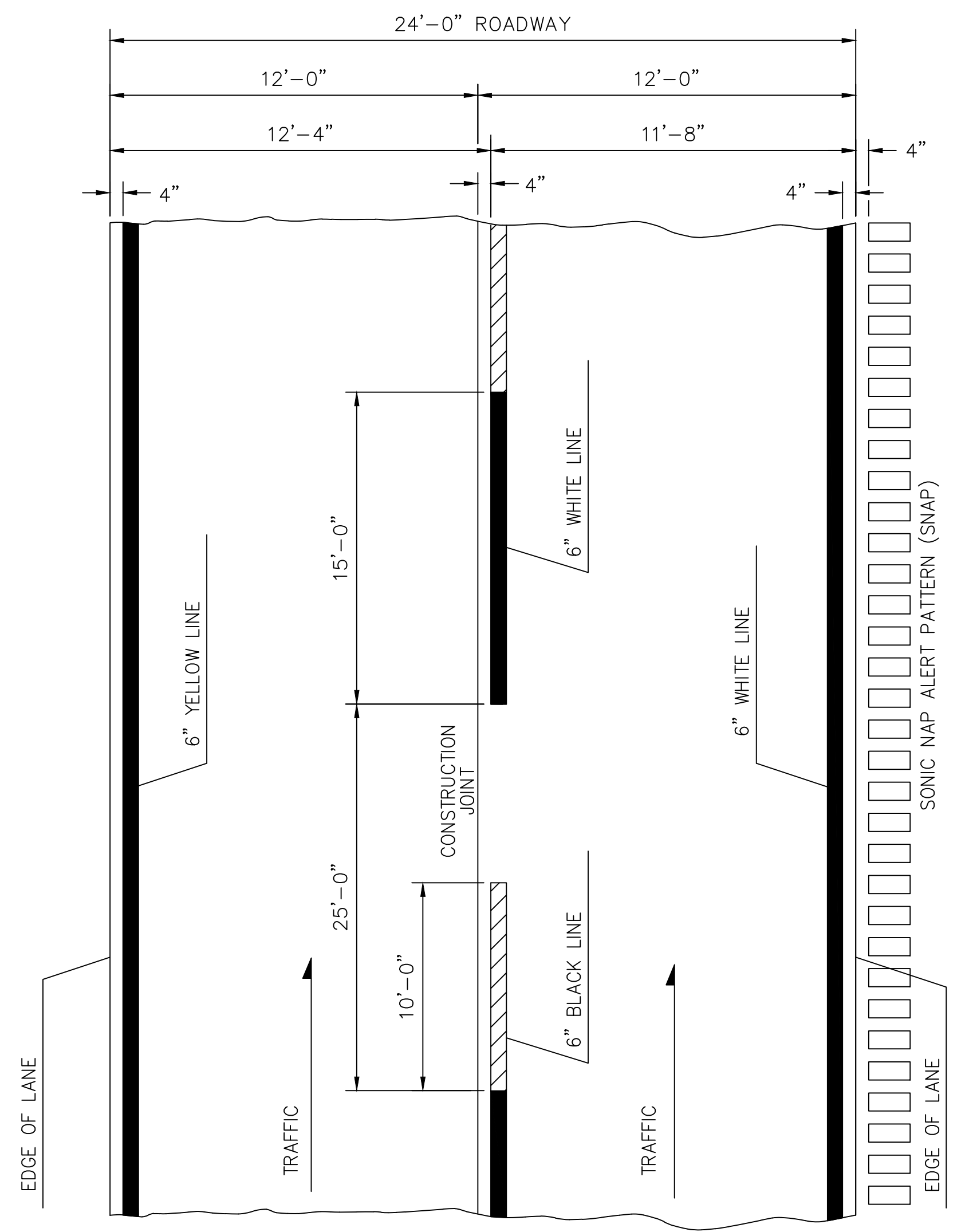


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

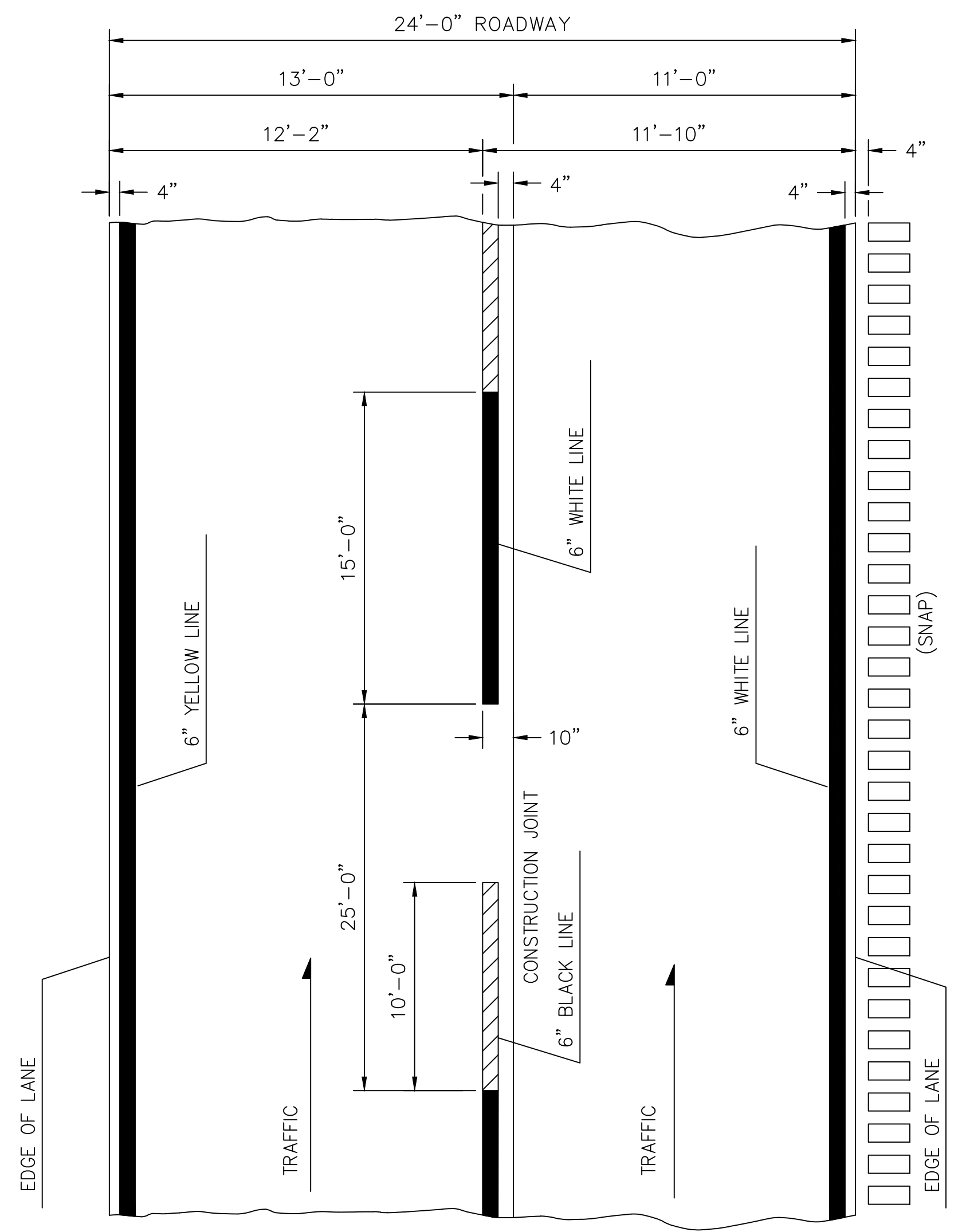
CONSTRUCTION AND MAINTENANCE
 LANE DROP TRAFFIC LINE PAINTING

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

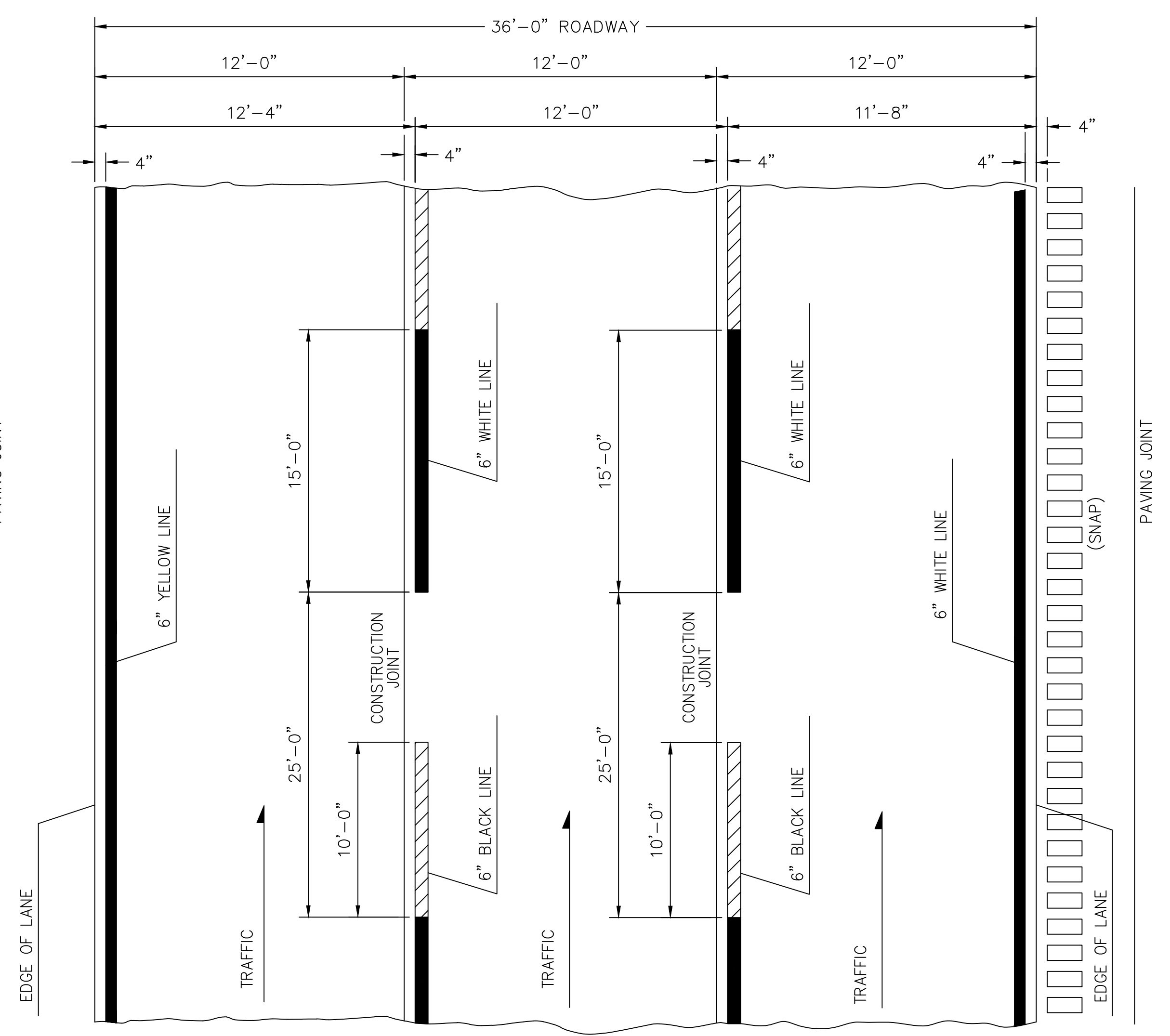
FILE NAME: PTS-980-8.dwg	SHEET 8 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



2 LANES



2 LANES - NORTHEAST EXTENSION

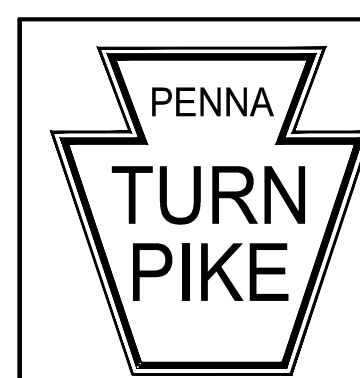


3 LANES

PERMANENT TRAFFIC LINE MARKINGS

NOTES:

- REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).

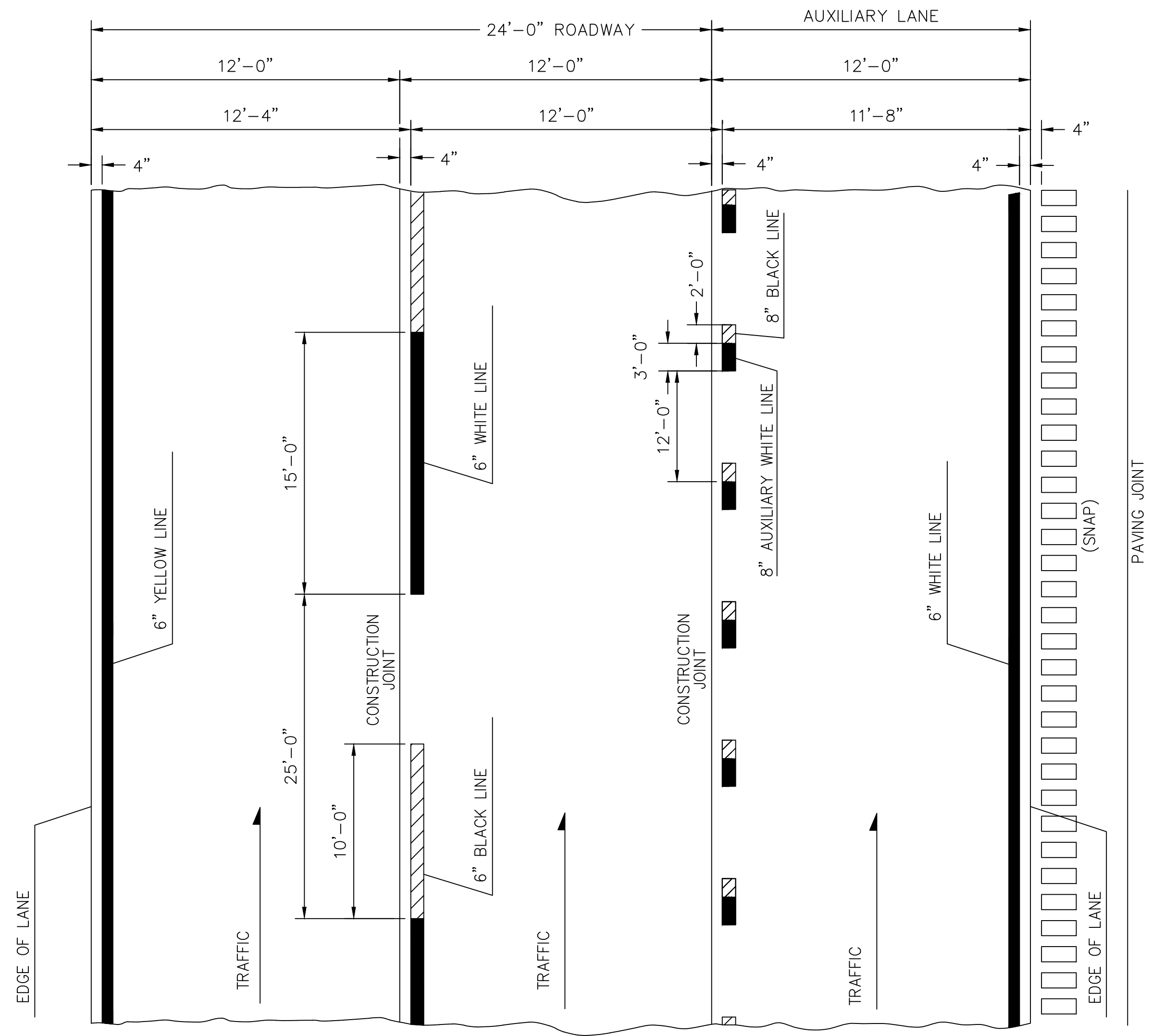


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

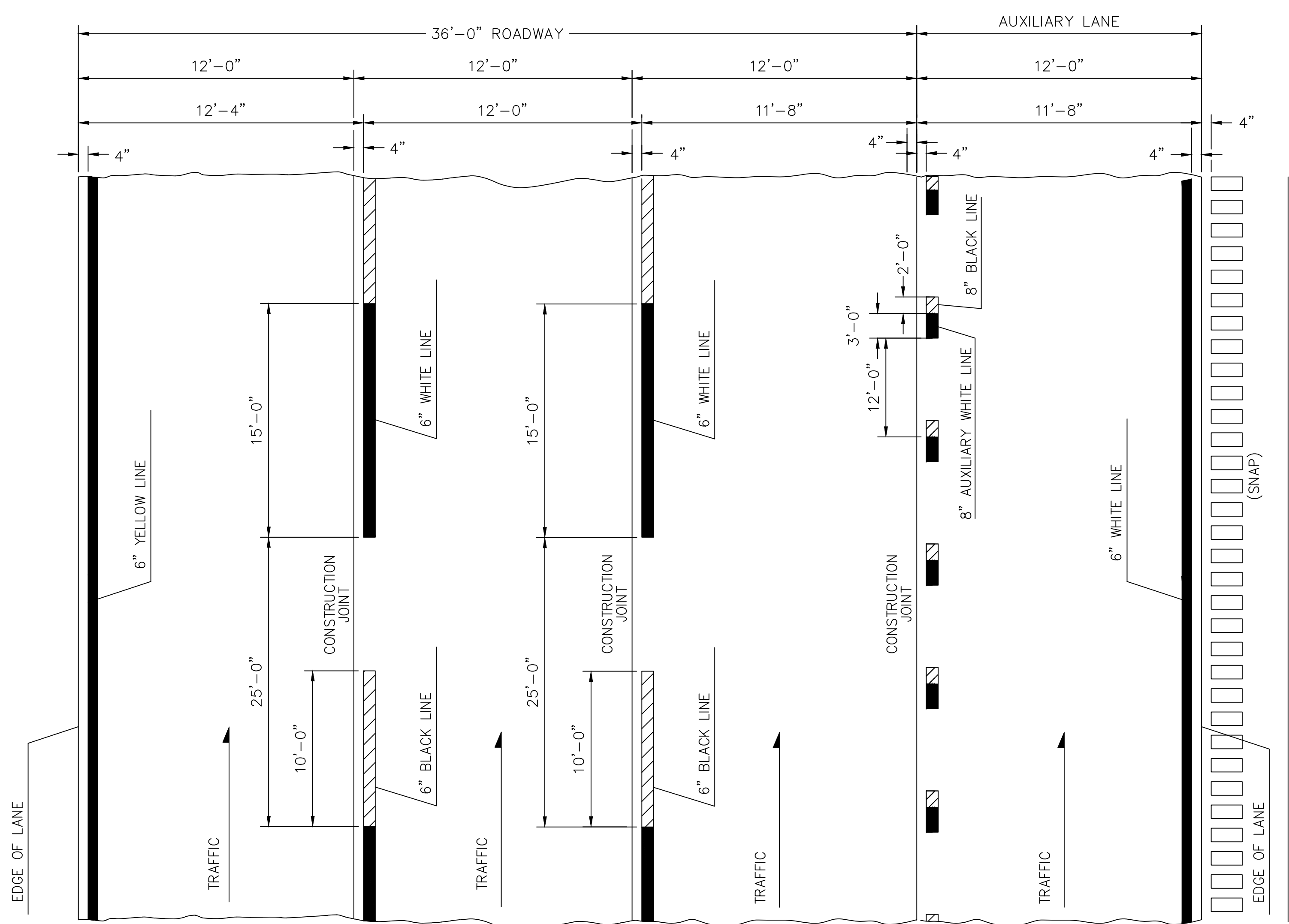
CONSTRUCTION AND MAINTENANCE
 PERMANENT TRAFFIC LINE MARKINGS
 HIGH CONTRAST MARKINGS

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-9.dwg	SHEET 9 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



2 LANES

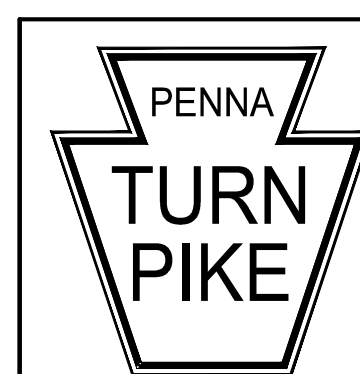


3 LANES

PERMANENT AUXILIARY LANE LINE

NOTES:

- REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).

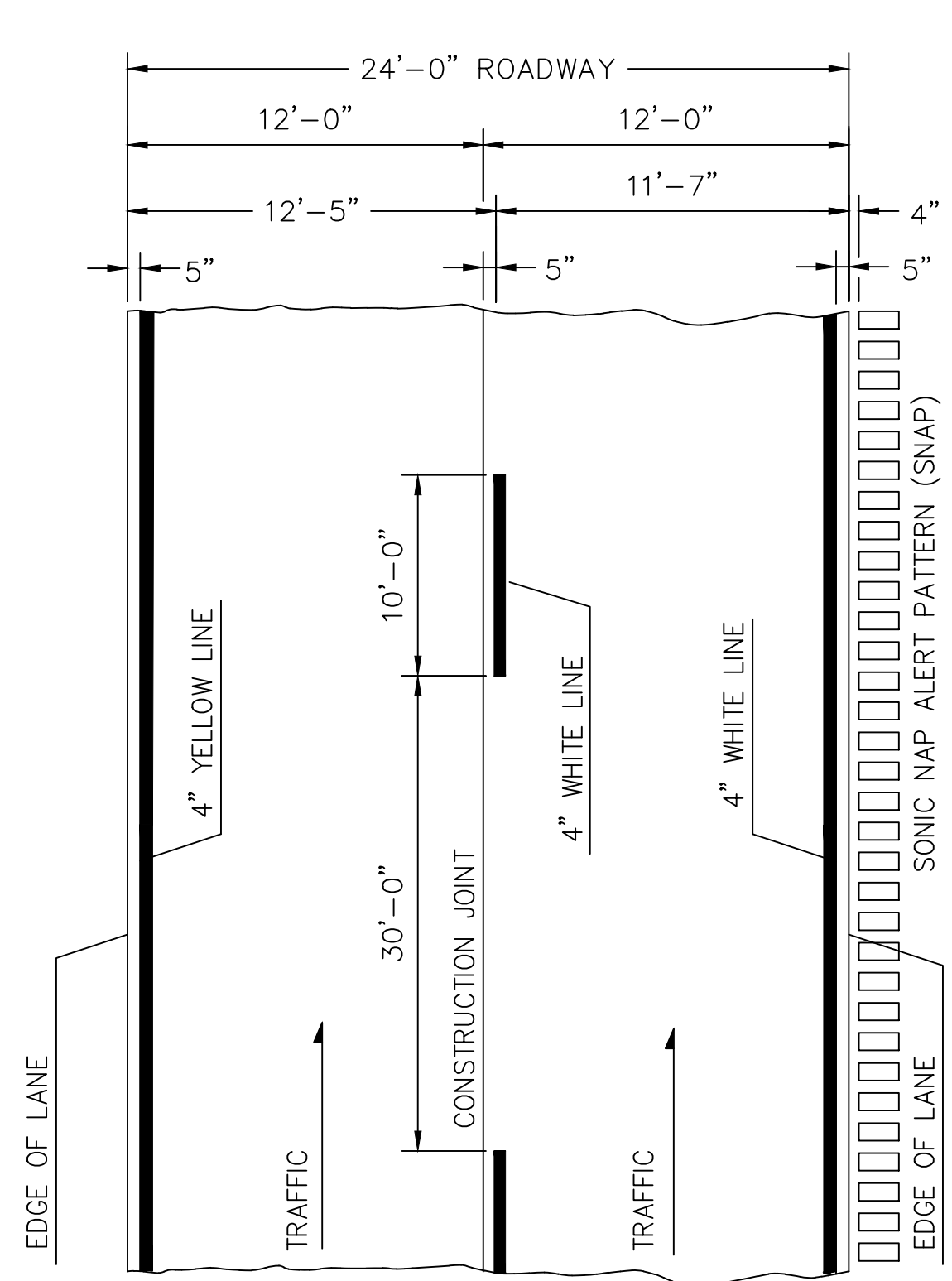


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

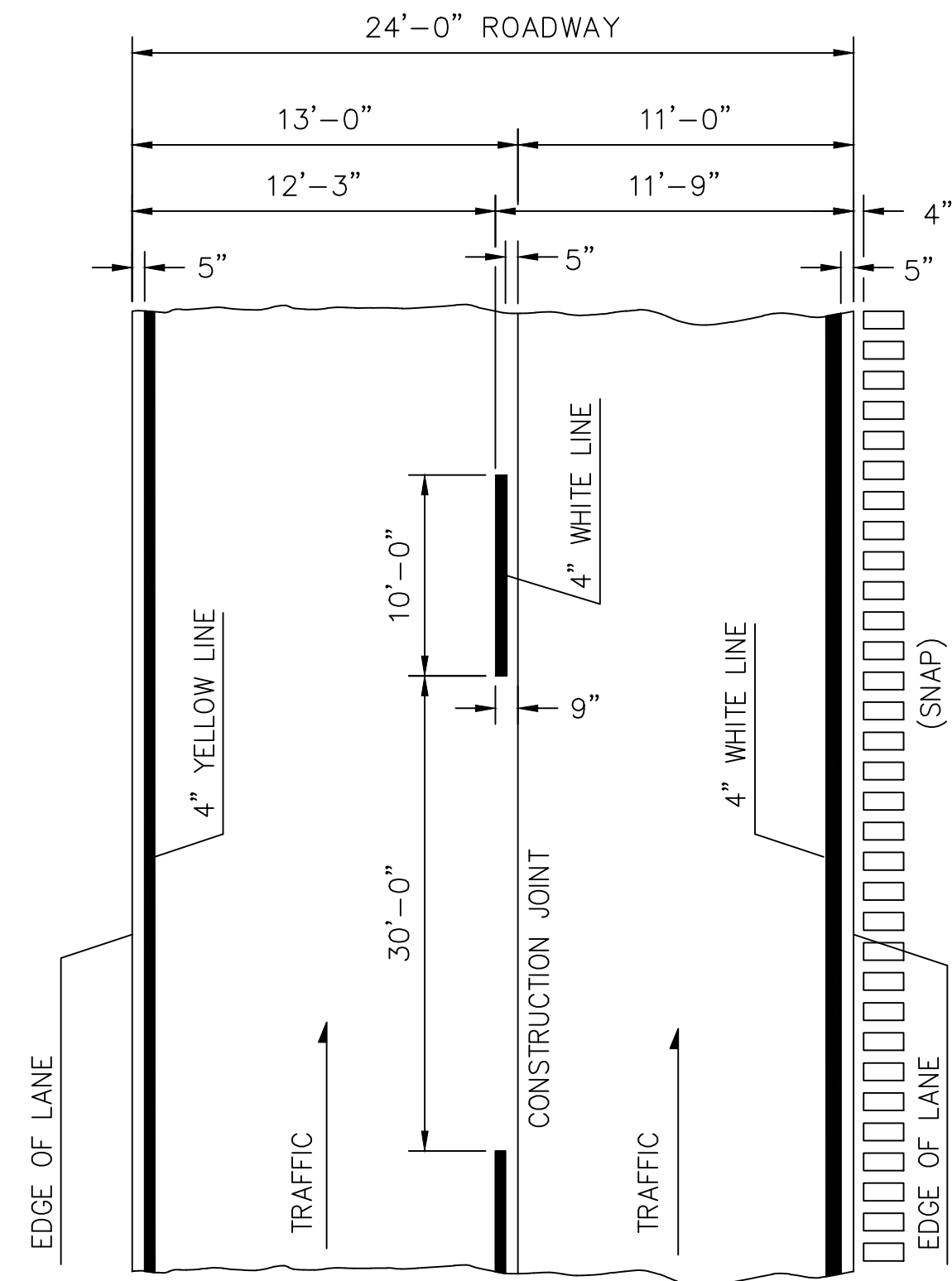
**CONSTRUCTION AND MAINTENANCE
 PERMANENT TRAFFIC LINE MARKINGS
 HIGH CONTRAST MARKINGS**

**PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING**

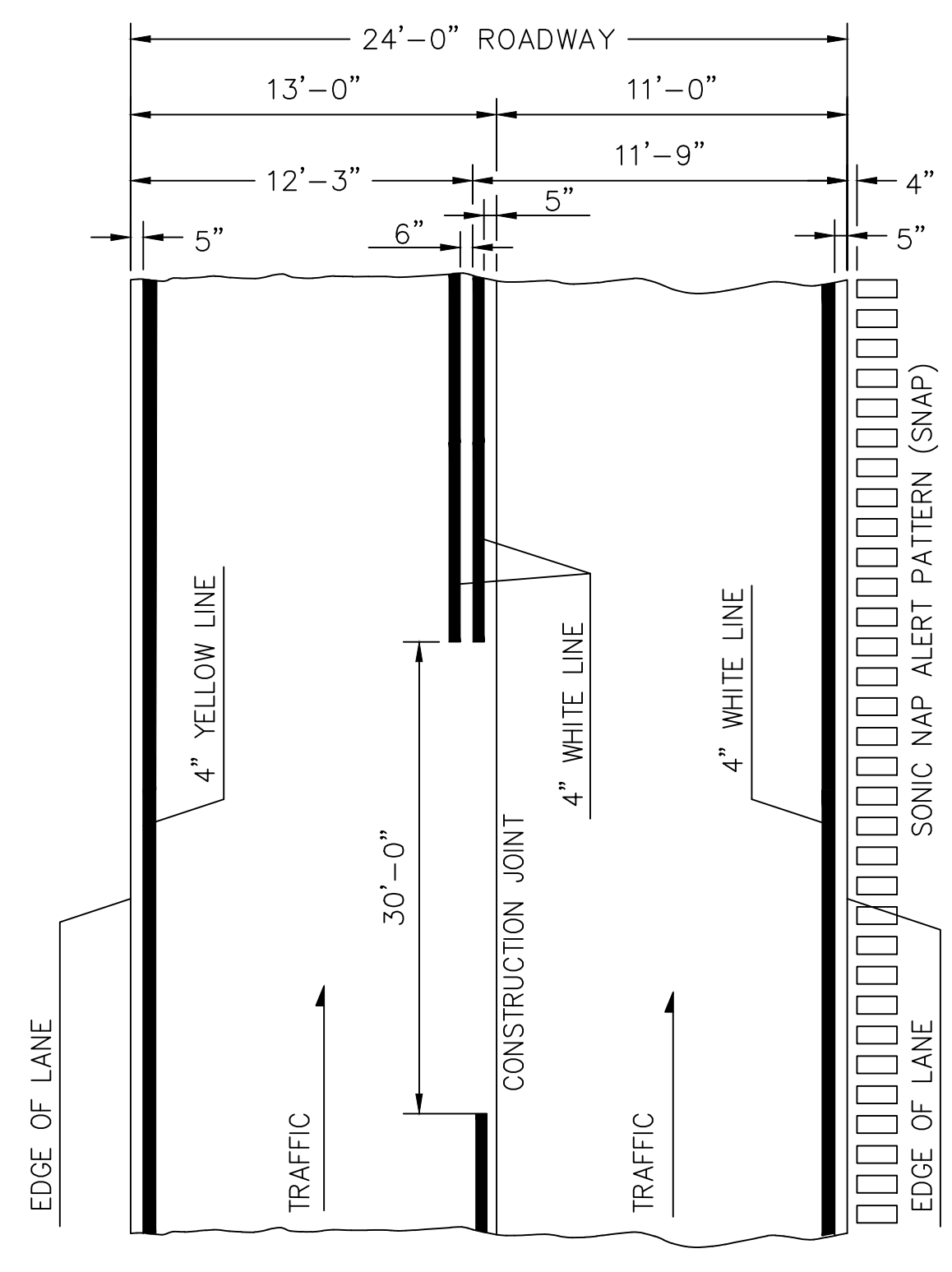
FILE NAME: PTS-980-10.dwg	SHEET 10 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



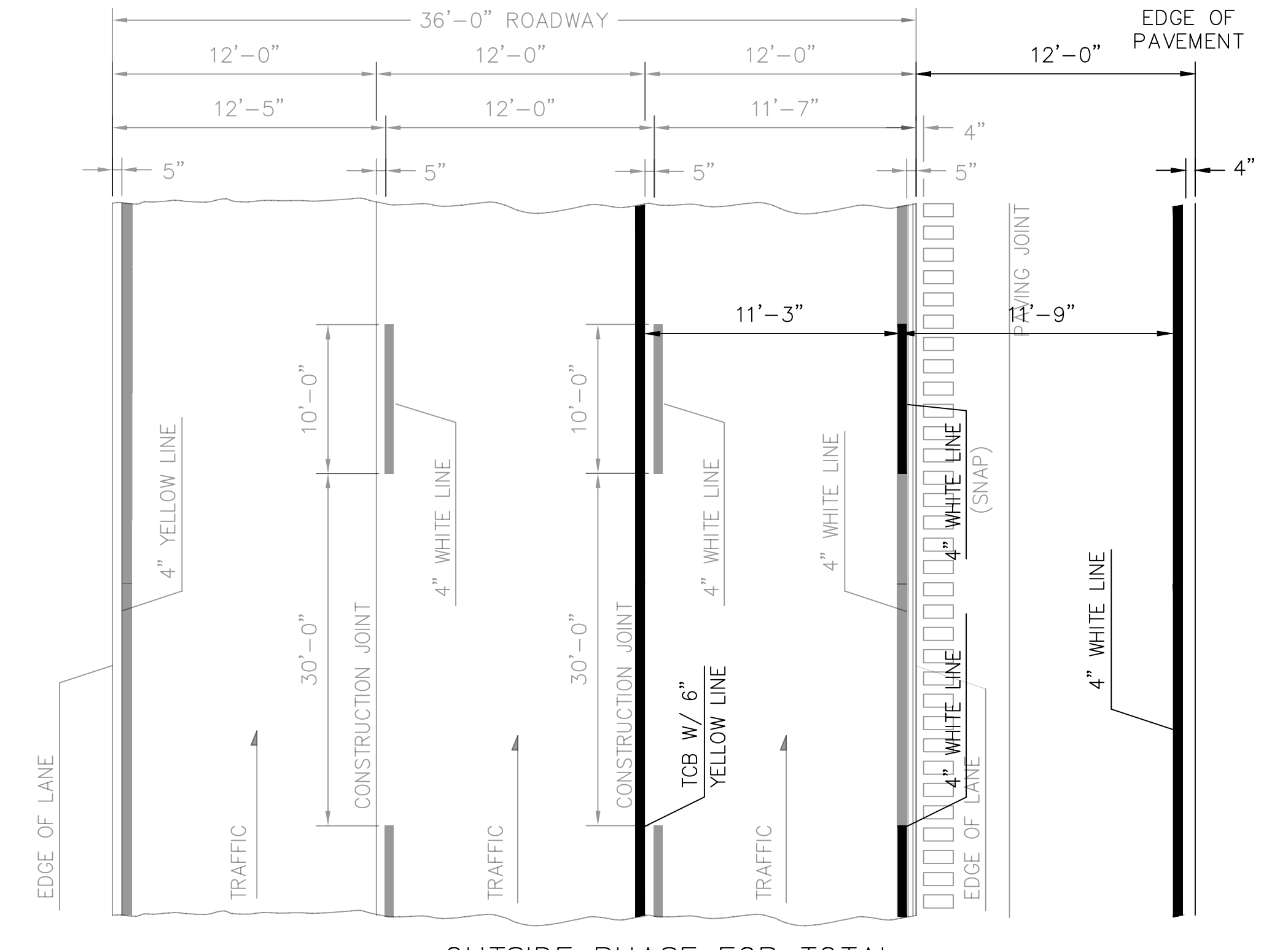
2 LANES



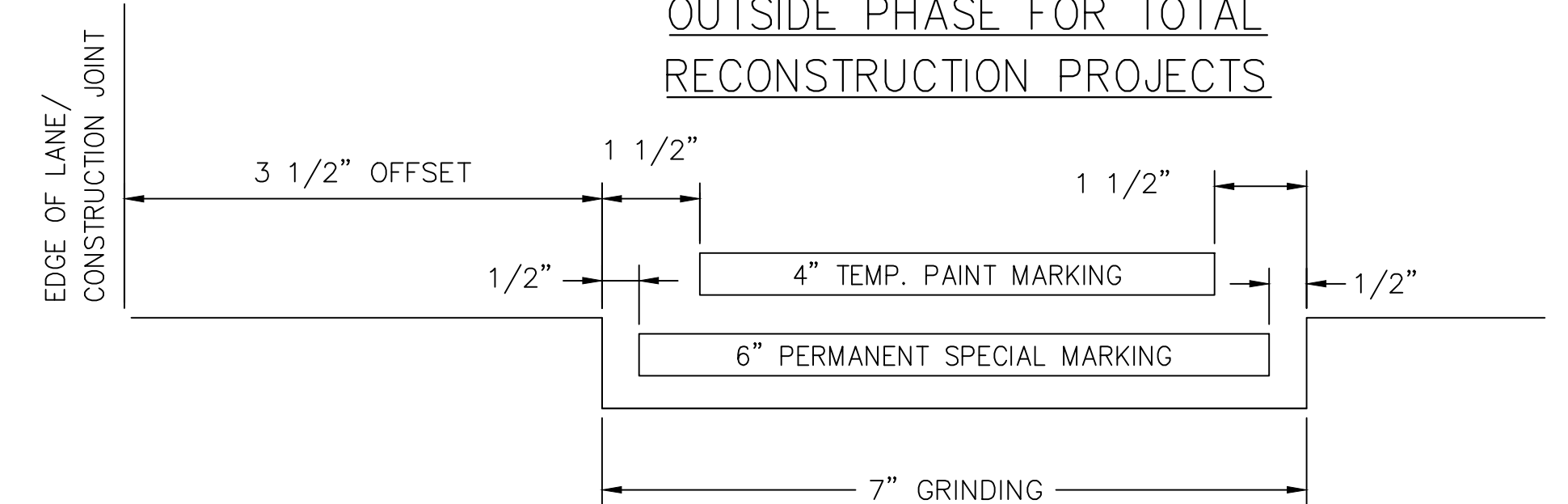
2 LANES - NORTHEAST EXTENSION



2 LANES - NORTHEAST EXTENSION
TUNNEL ENTRANCE

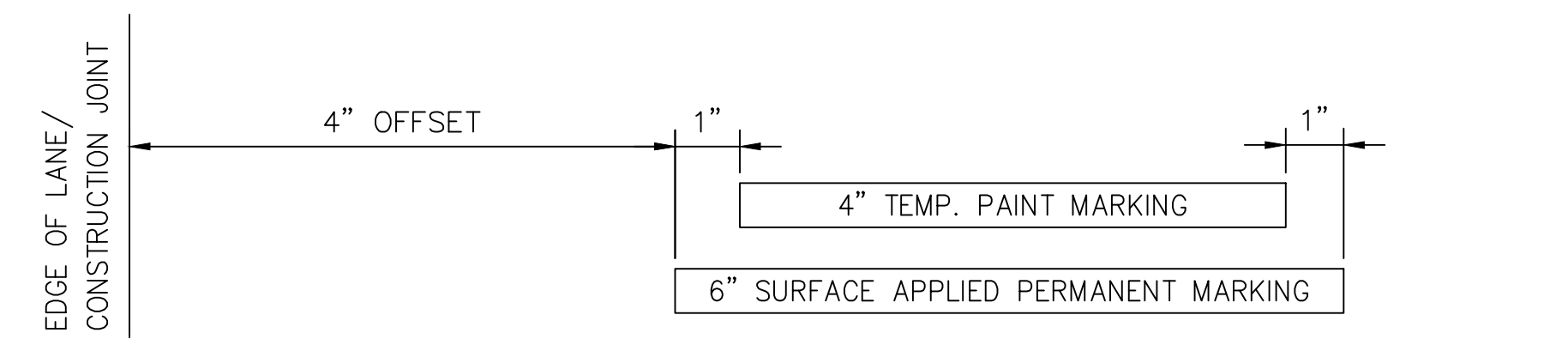


OUTSIDE PHASE FOR TOTAL
RECONSTRUCTION PROJECTS



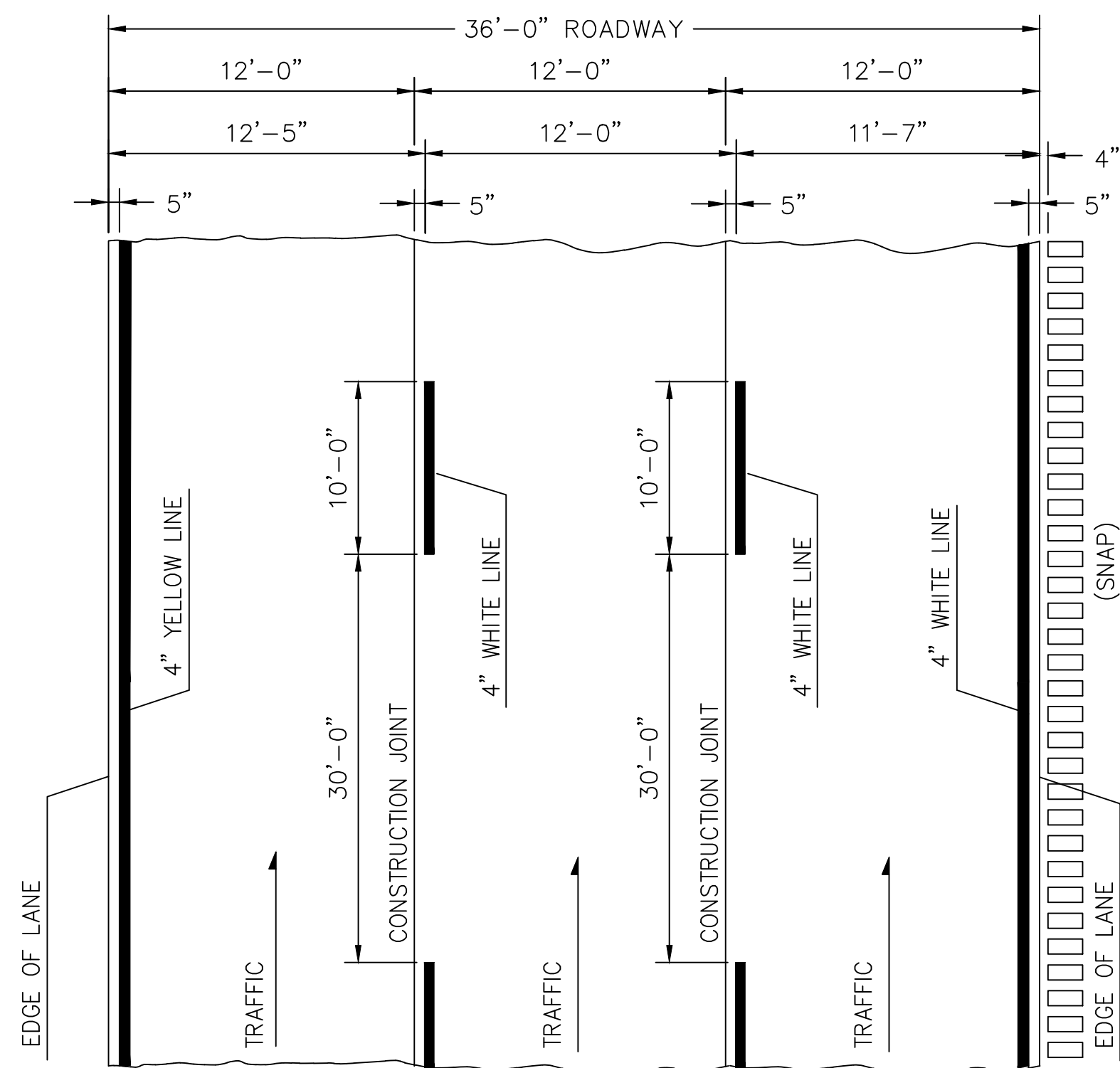
NOTE - FOR RIGHT EDGE LINE USE 4" OFFSET OF 6" PERMANENT SPECIAL MARKING AS MEASURED FROM THE RIGHT EDGE OF LANE.

PLACEMENT OF 4" SURFACE APPLIED TEMPORARY PAINT MARKING FOR USE WITH 6" PERMANENT SPECIAL MARKING IN GROOVES

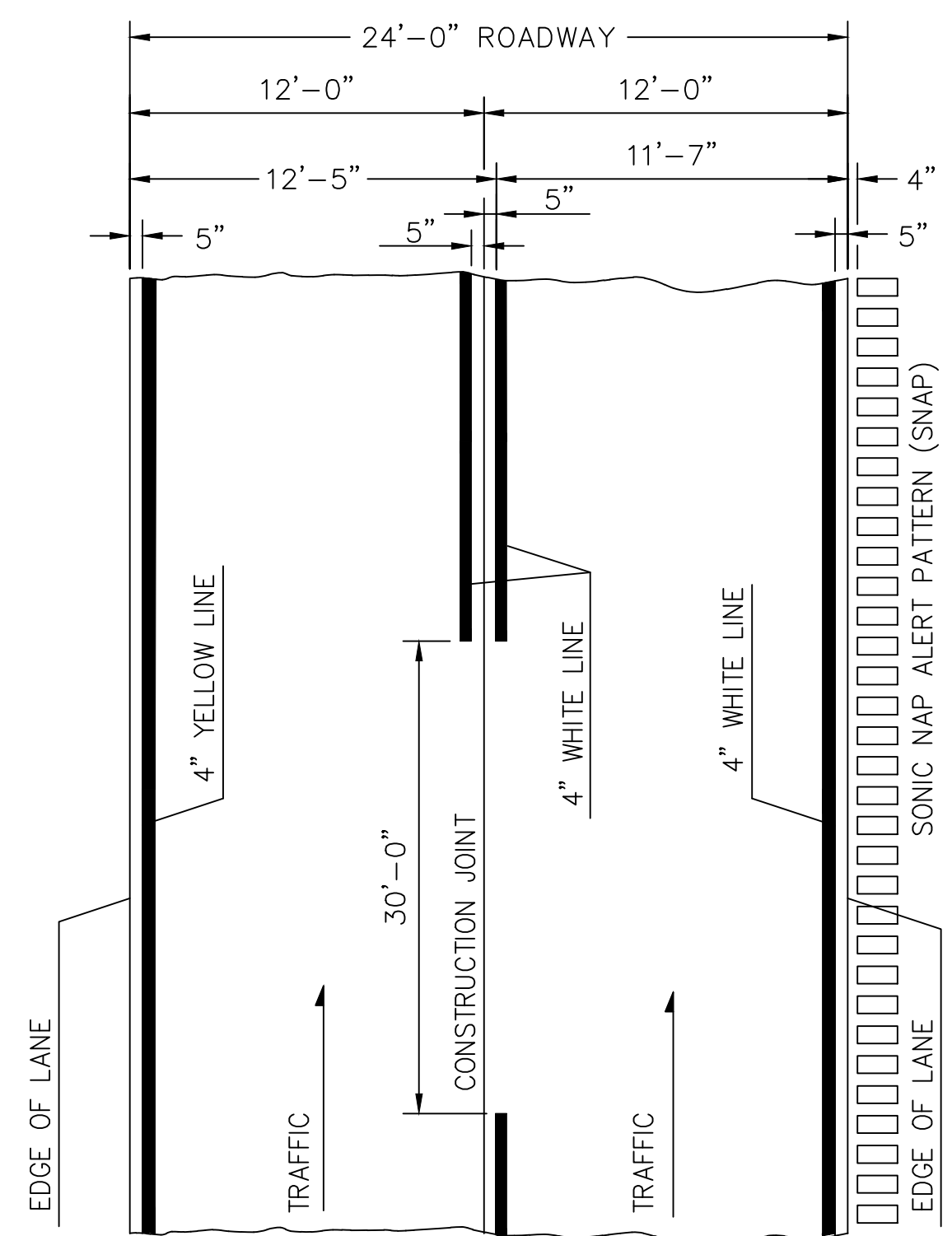


NOTE - FOR RIGHT EDGE LINE USE 4" OFFSET OF 6" SURFACE APPLIED PERMANENT MARKING AS MEASURED FROM THE RIGHT EDGE OF LANE.

PLACEMENT OF 4" SURFACE APPLIED TEMPORARY PAINT MARKING FOR USE WITH 6" SURFACE APPLIED PERMANENT TRAFFIC LINE MARKINGS



3 LANES

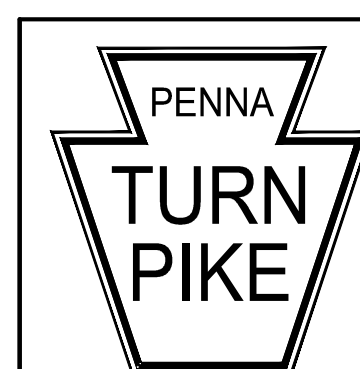


2 LANES - TUNNEL ENTRANCE

NOTES:

1. LOCATION OF TEMPORARY PAVEMENT MARKINGS AND WORK ZONE LANE WIDTHS ARE PROJECT DEPENDENT. REFER TO THE MAINTENANCE AND PROTECTION OF TRAFFIC SPECIAL PROVISION AND THE PROJECT PLANS.
2. REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).

LEGEND
 Pavement Markings During Construction
 Future Pavement Markings After Construction



RECOMMENDED: MAY 3, 2024

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: MAY 3, 2024

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
TEMPORARY TRAFFIC LINE PAINTING
DETAILS

PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

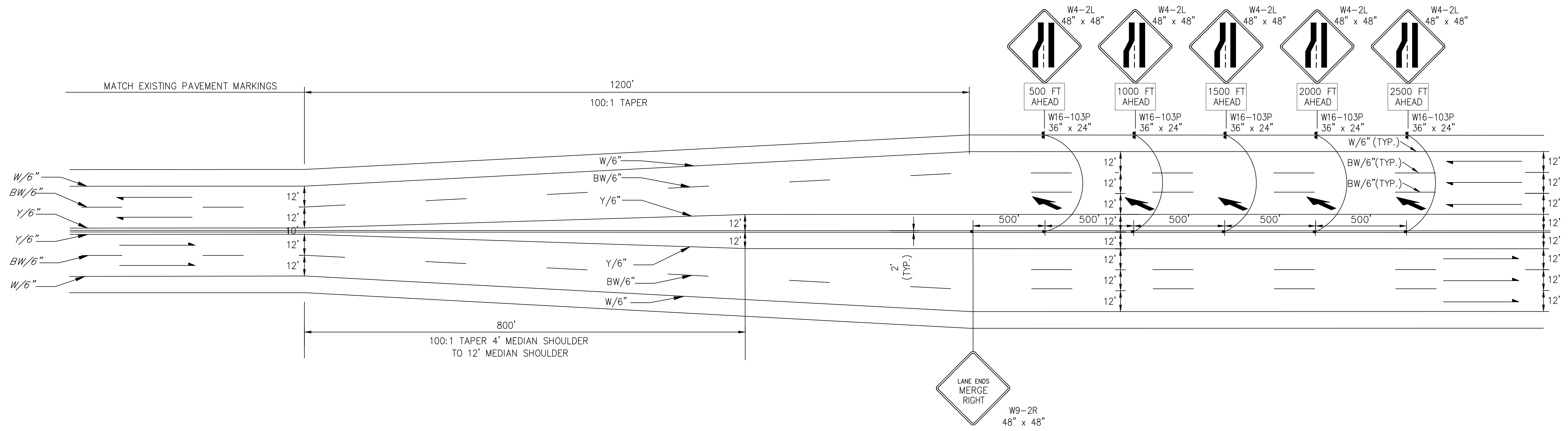
FILE NAME: PTS-980-11.dwg

DRAWING TYPE: 5A

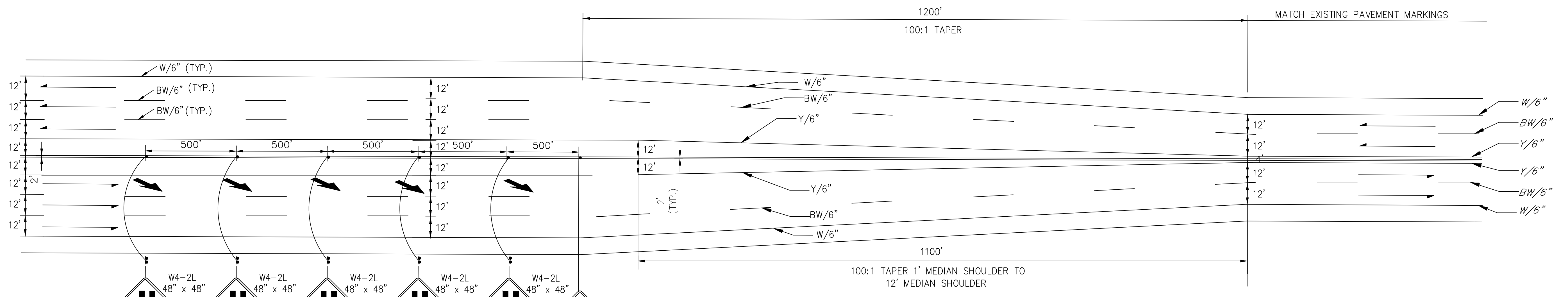
SHEET 11 OF 41

DATE: APRIL 2024

PTS-980



10' MEDIANS

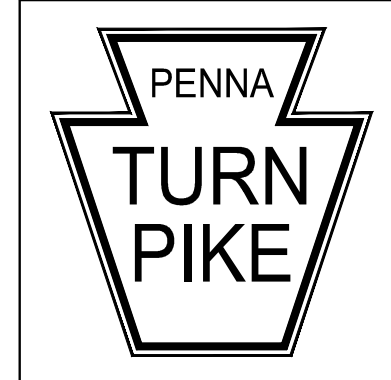


4' MEDIANS

LEGEND

	PROPOSED SIGN		LANE REDUCTION ARROW
	PROPOSED SIGN		EXISTING WHITE PAVEMENT MARKING/SIZE
	DIRECTION OF TRAVEL		EXISTING YELLOW PAVEMENT MARKING/SIZE
	WHITE PAVEMENT MARKING/SIZE		EXISTING BROKEN WHITE PAVEMENT MARKING/SIZE
	YELLOW PAVEMENT MARKING/SIZE		
	BROKEN WHITE PAVEMENT MARKING/SIZE		

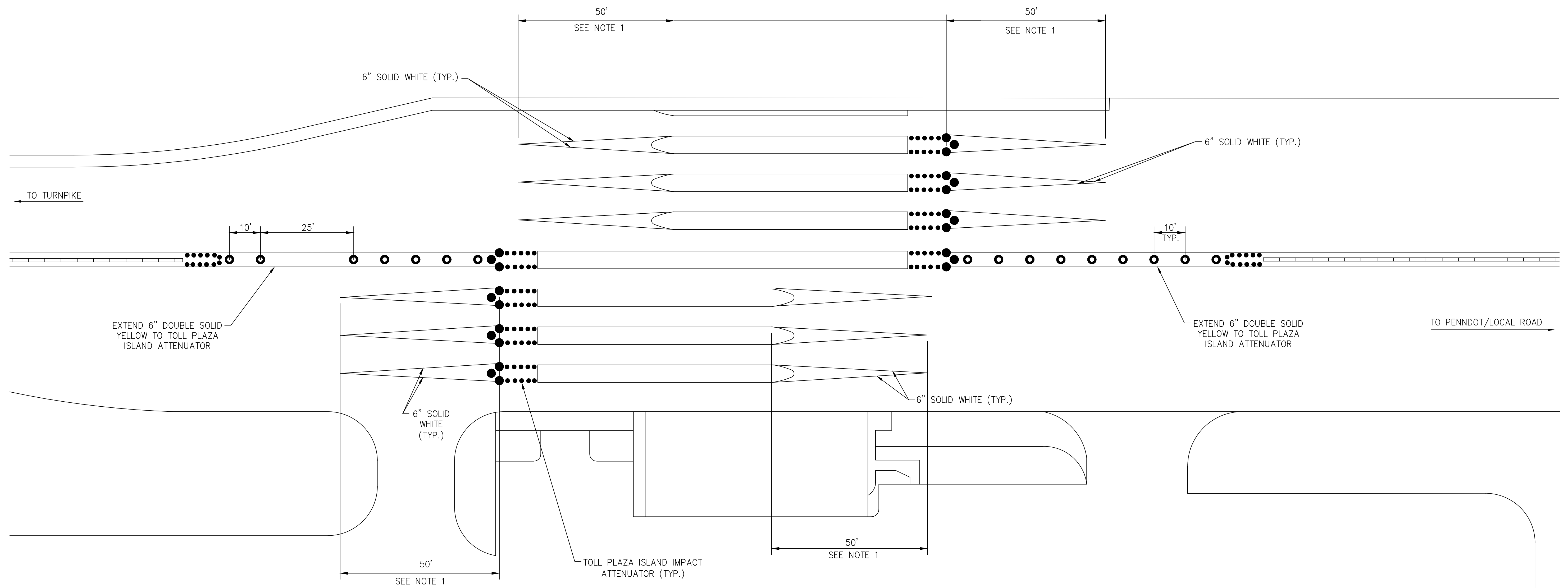
- NOTES:
- REFER TO TC-8600 FOR DIMENSIONS, AND PLACEMENT OF LANE REDUCTION ARROWS.
 - REFER TO SHEET 33 OF 41 AND SHEET 34 OF 41 FOR MEDIAN BARRIER SUPPORT FOR SIGNS.
 - FOR A RIGHT LANE ENDS CONDITION, USE THE SAME SIGN AND PAVEMENT MARKING SPACING AND LOCATION, BUT WITH THE SIGNS AND PAVEMENT MARKINGS INDICATING THE RIGHT LANE ENDS.



RECOMMENDED: MAY 3, 2024
Chris V. [Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

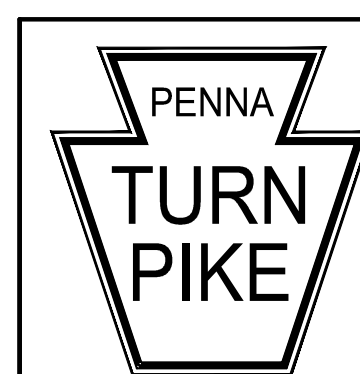
**CONSTRUCTION AND MAINTENANCE
 SIGNING AND PAVEMENT MARKING DETAIL
 FOUR LANE TO SIX LANE TRANSITION**

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-12.dwg	SHEET 12 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



NOTES:

1. BEGIN 6" SOLID WHITE AT END OF ISLAND ATTENUATOR. IF ATTENUATOR IS NOT PRESENT BEGIN AT END OF TOLL PLAZA ISLAND.
- YELLOW 36" DELINEATORS

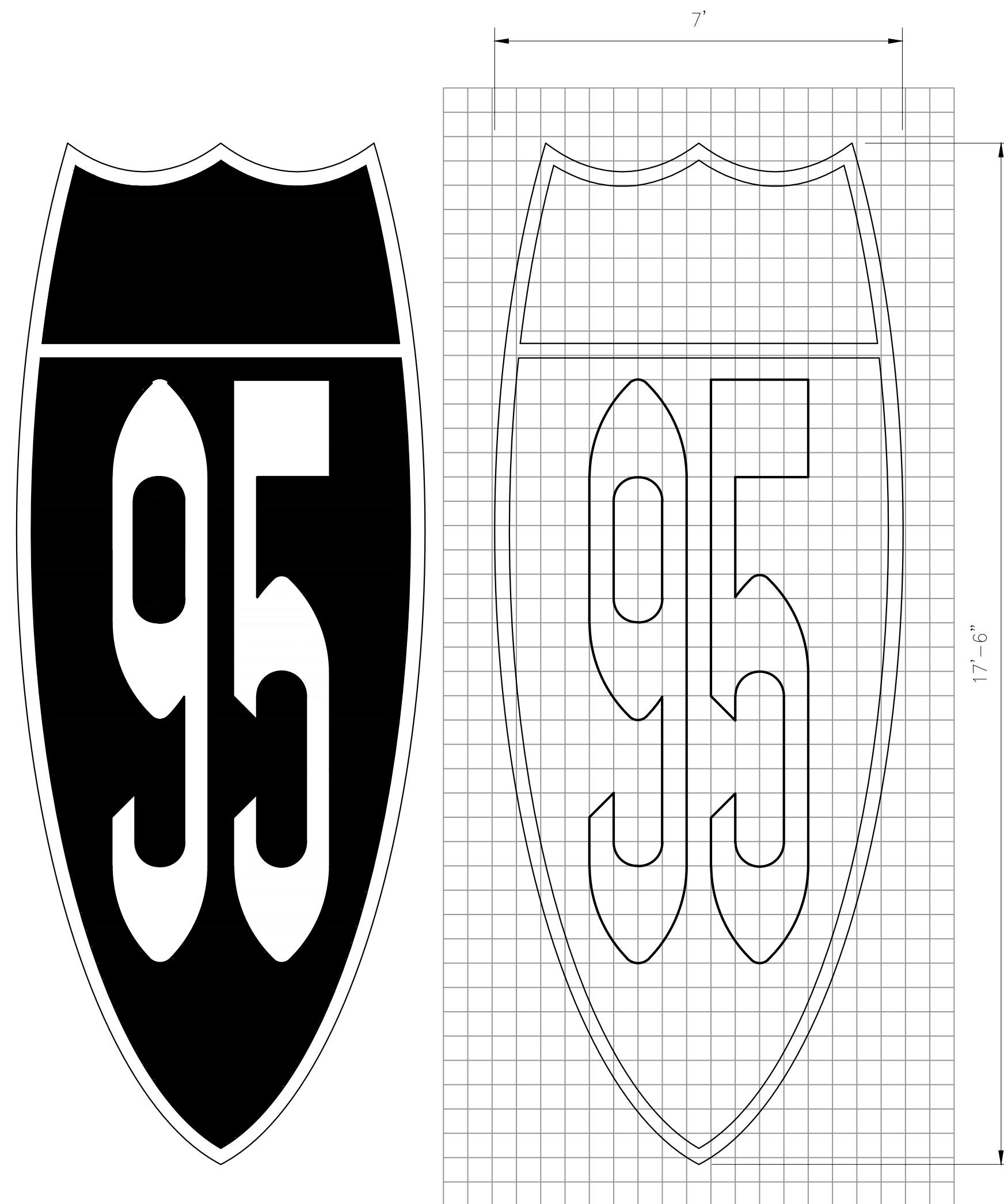


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

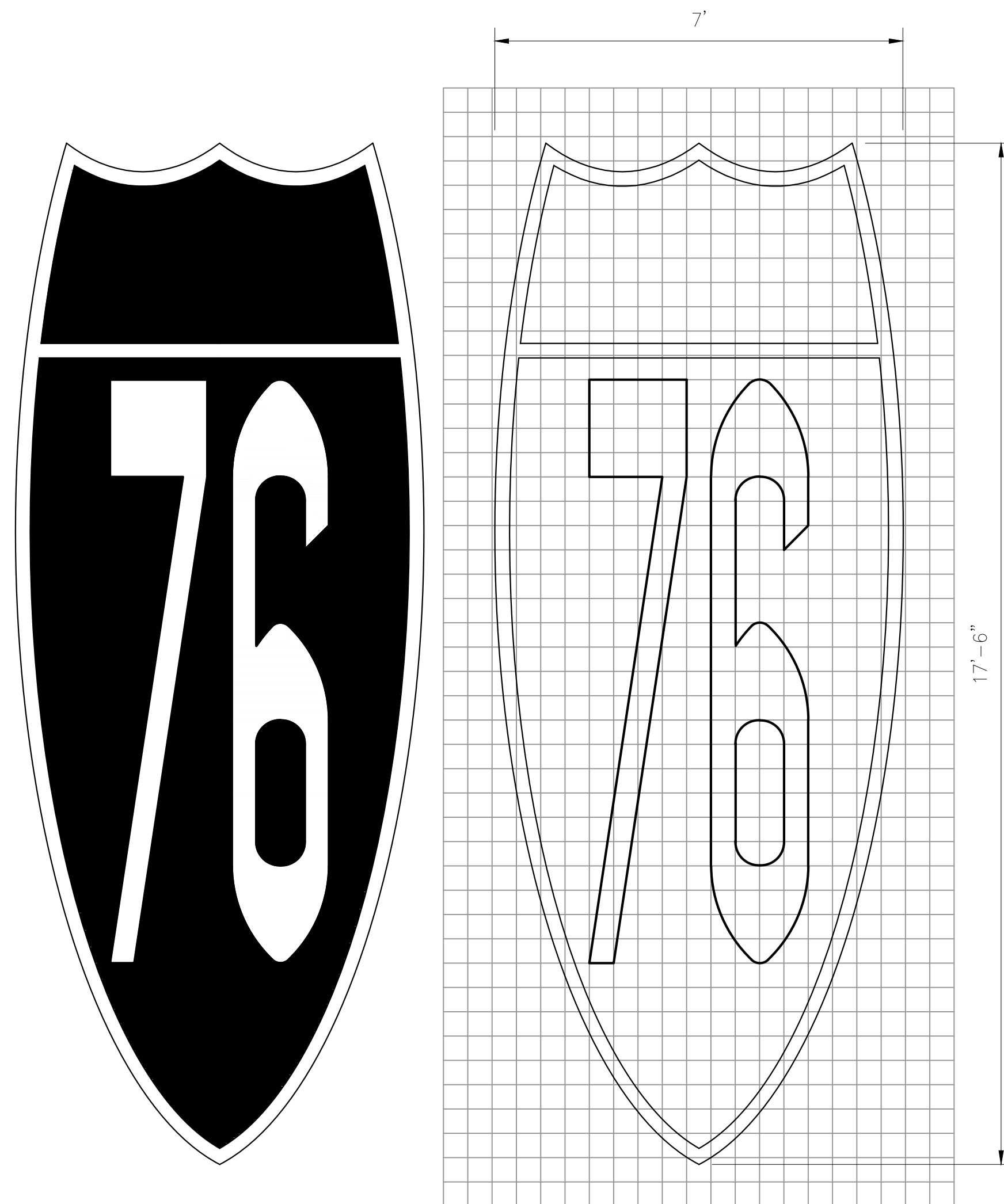
**CONSTRUCTION AND MAINTENANCE
 TOLL PLAZA ISLAND
 PERMANENT TRAFFIC LINE MARKINGS
 AND DELINEATION**

**PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING**

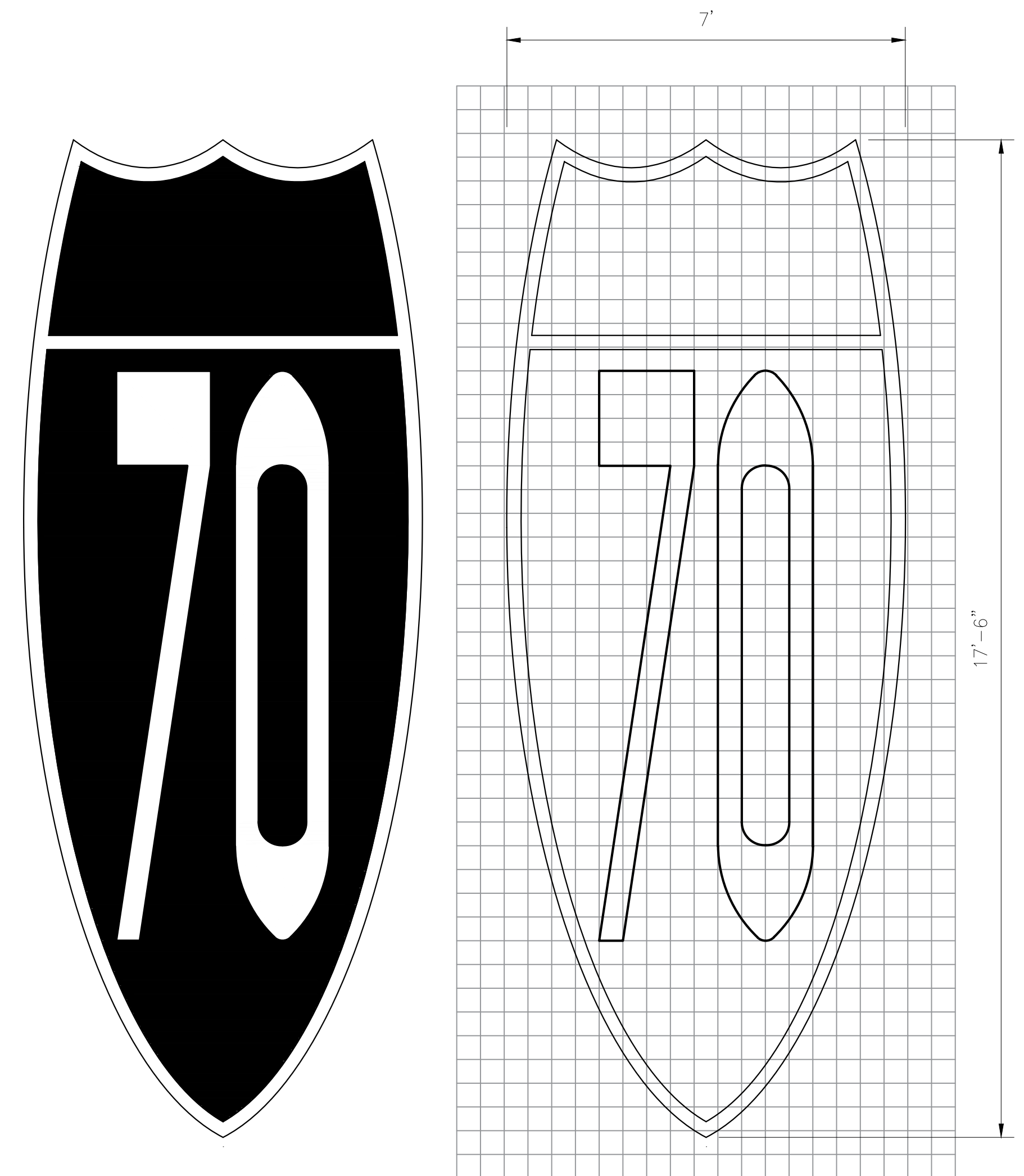
FILE NAME: PTS-980-13.dwg	SHEET 13 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 RED REFLECTORIZED TOP BACKGROUND
 BLUE REFLECTORIZED BOTTOM BACKGROUND

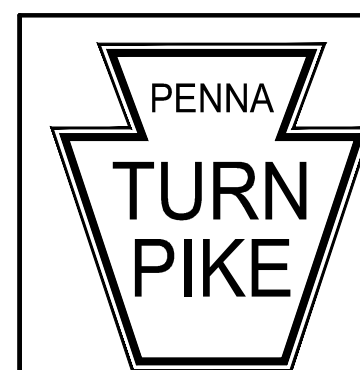


COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 RED REFLECTORIZED TOP BACKGROUND
 BLUE REFLECTORIZED BOTTOM BACKGROUND



COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 RED REFLECTORIZED TOP BACKGROUND
 BLUE REFLECTORIZED BOTTOM BACKGROUND

- NOTES:
- REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.
 - STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
 - FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
 - SPACE 1 UNIT BETWEEN CHARACTERS.

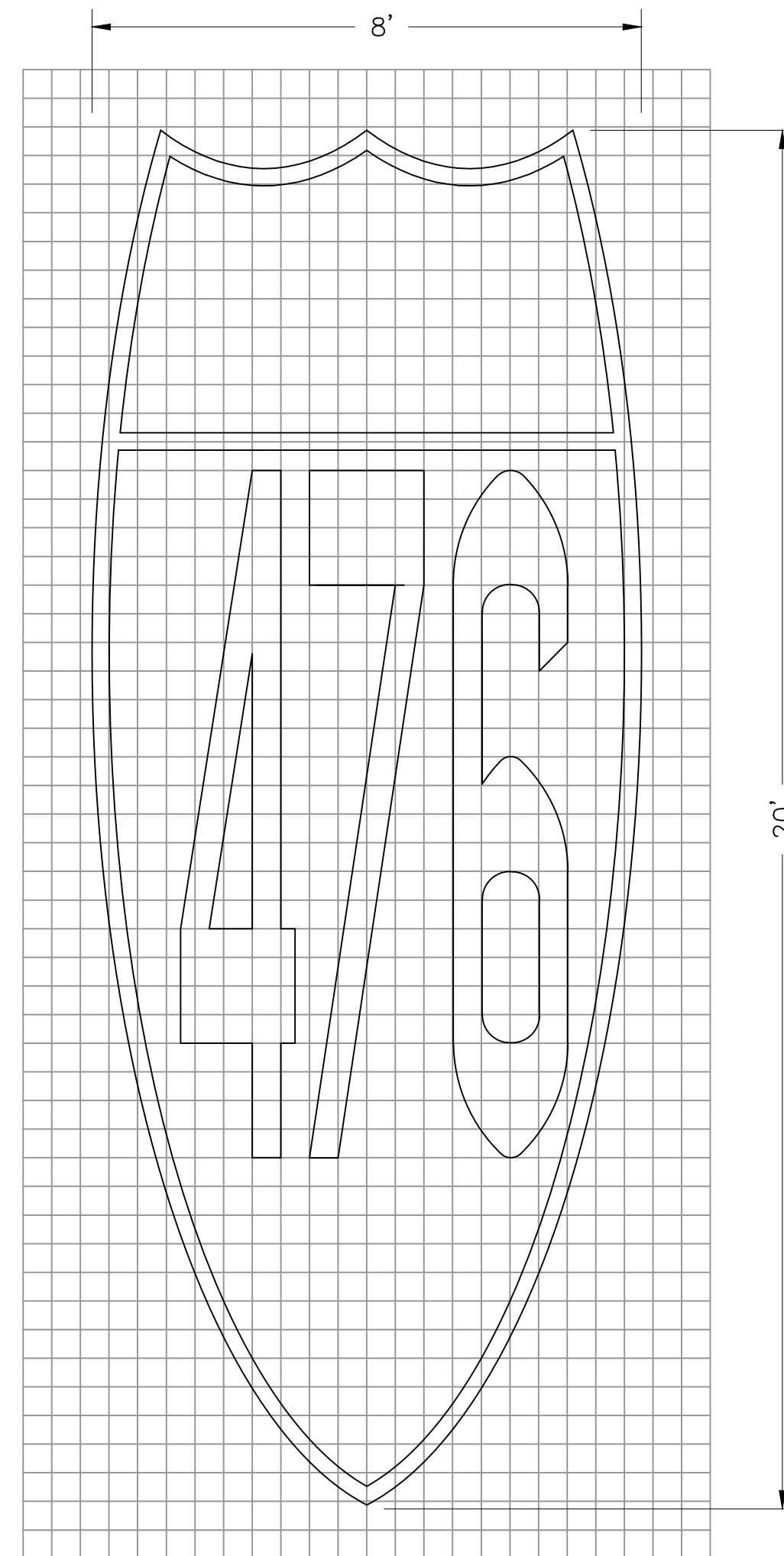


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: *[Signature]* MAY 3, 2024
 CHIEF ENGINEER

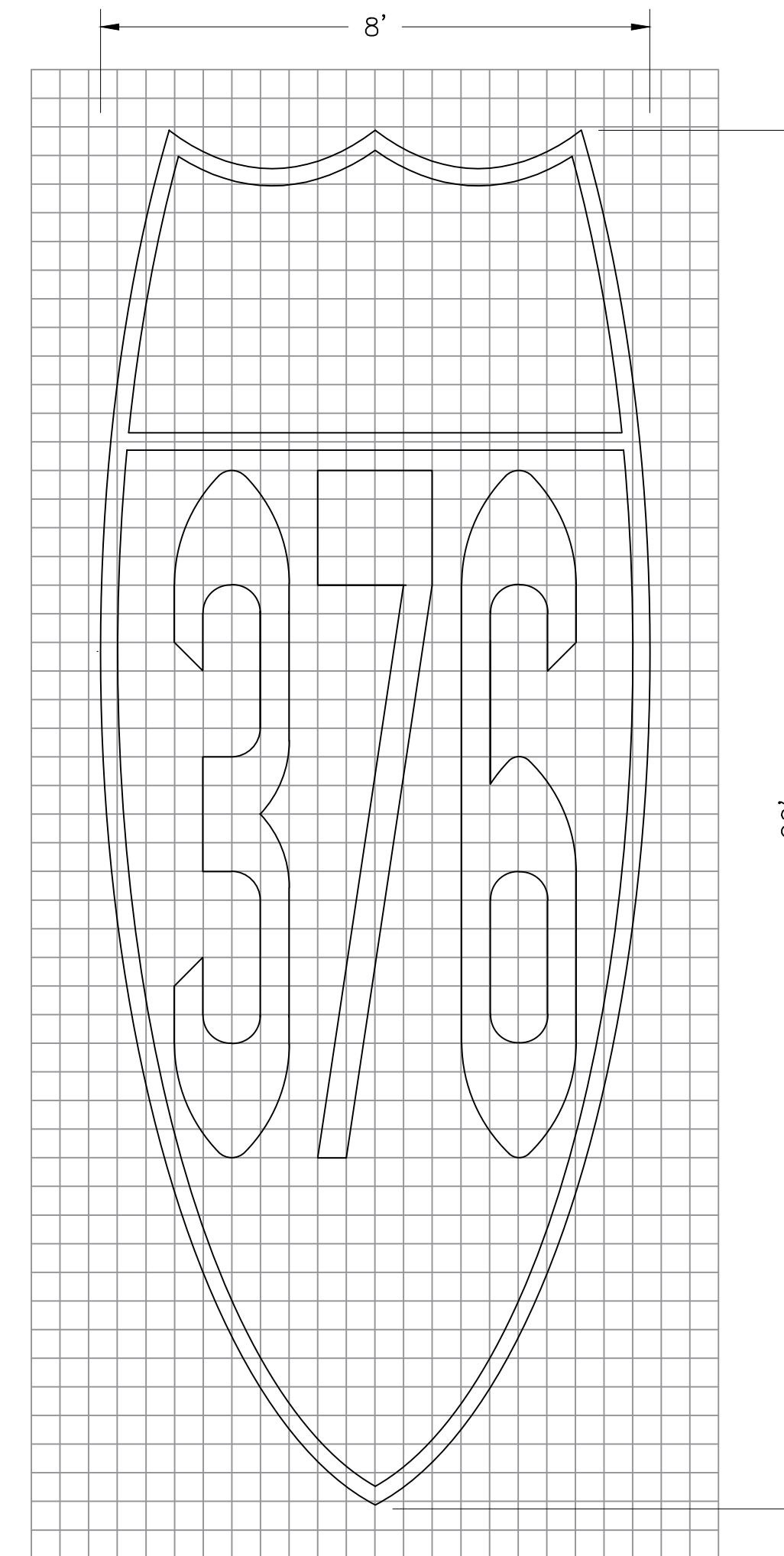
CONSTRUCTION AND MAINTENANCE
 PAVEMENT MARKING DETAIL
 INTERSTATE SHEILDS 2 DIGITS

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-14.dwg	SHEET 14 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980

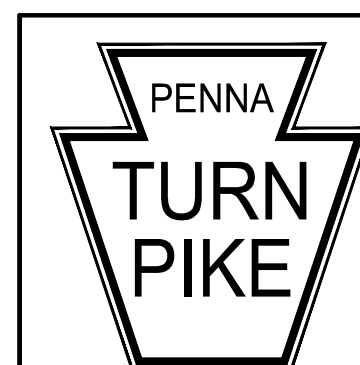


COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 RED REFLECTORIZED TOP BACKGROUND
 BLUE REFLECTORIZED BOTTOM BACKGROUND



COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 RED REFLECTORIZED TOP BACKGROUND
 BLUE REFLECTORIZED BOTTOM BACKGROUND

- NOTES:
- REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.
 - STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
 - FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
 - SPACE 1 UNIT BETWEEN CHARACTERS.

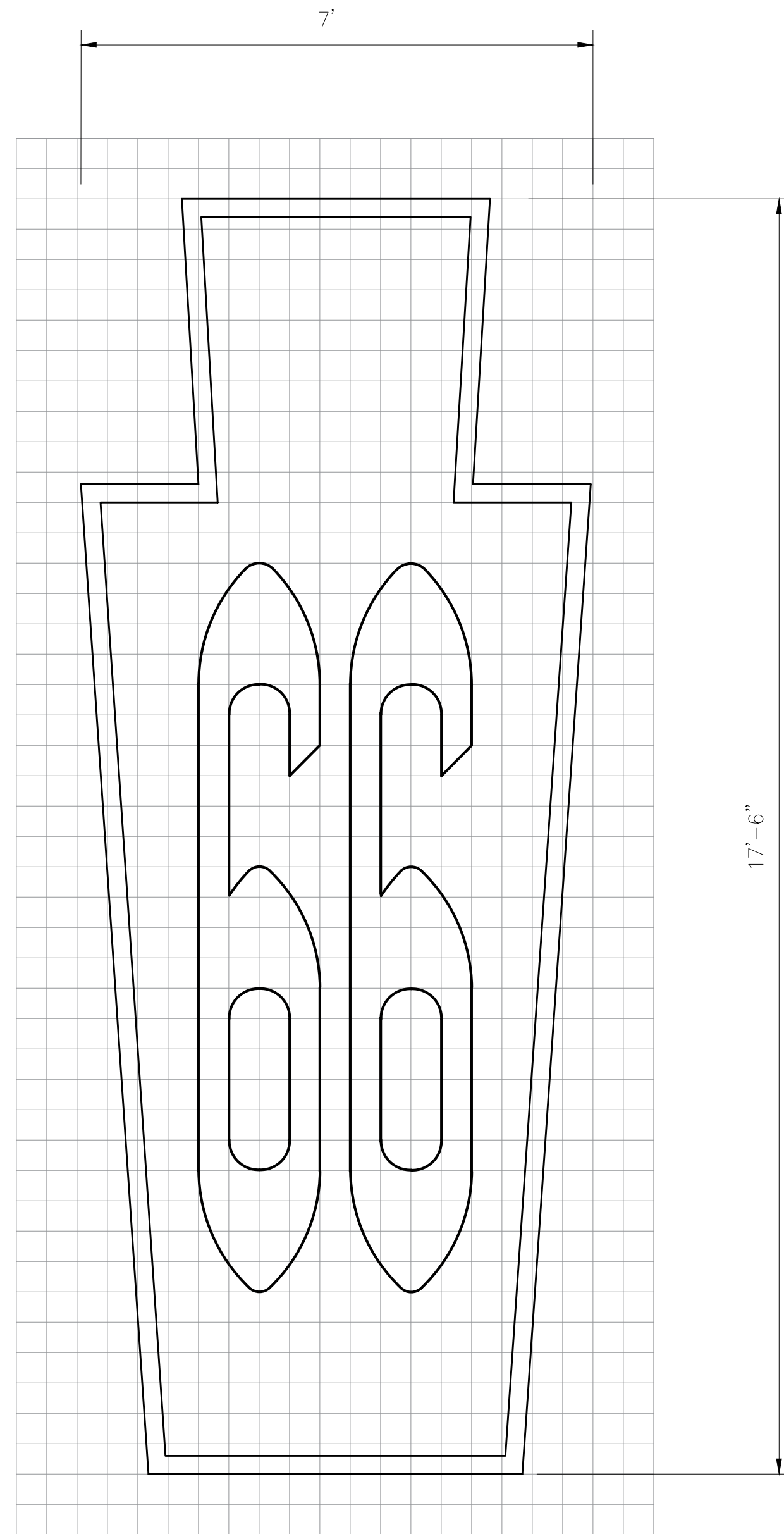
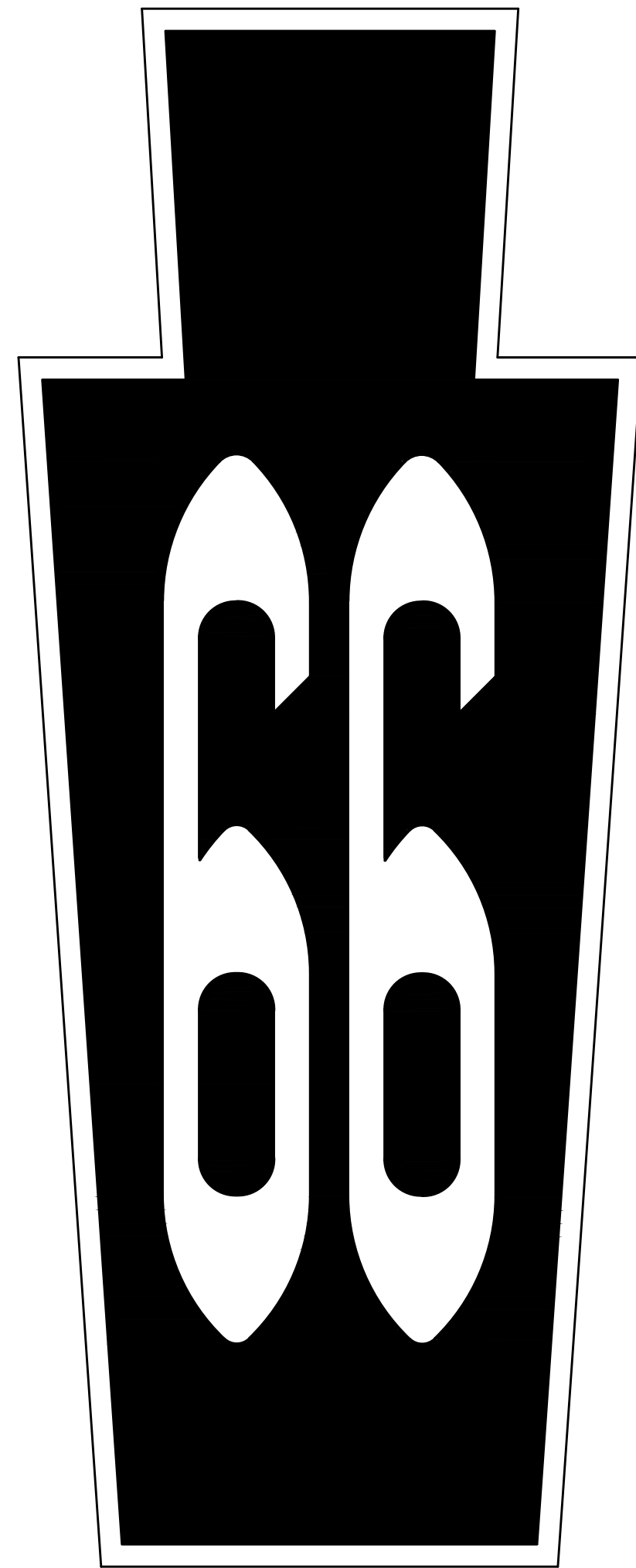


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

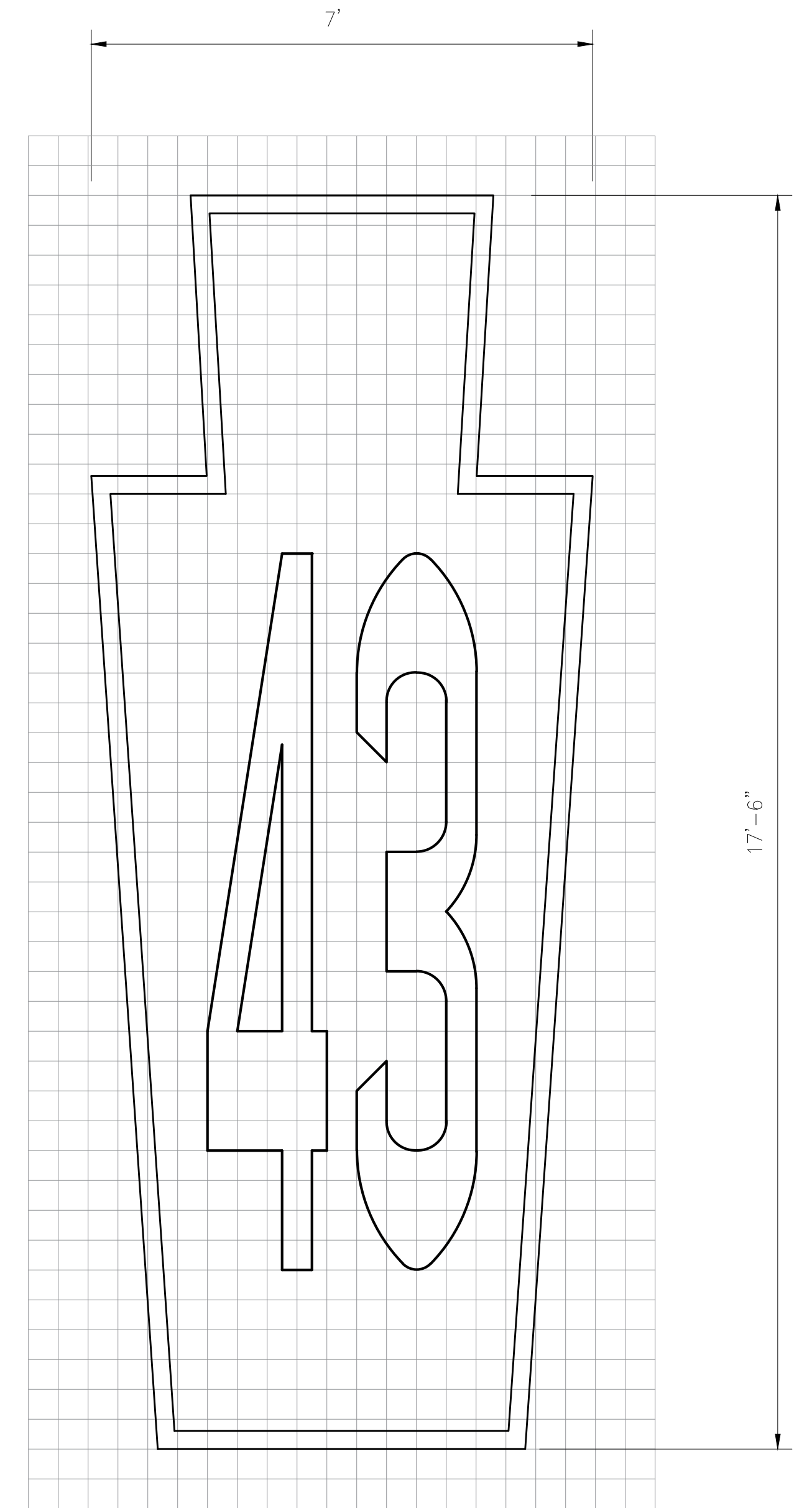
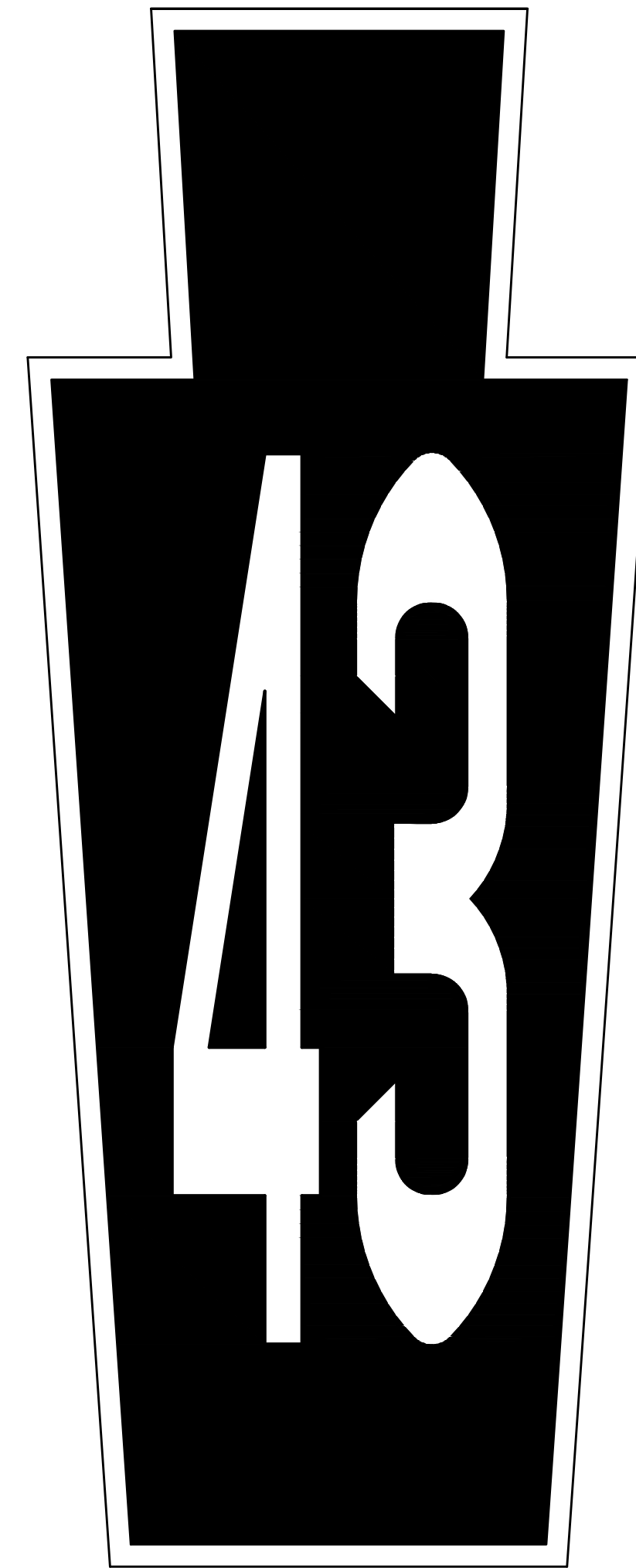
CONSTRUCTION AND MAINTENANCE
 PAVEMENT MARKING DETAILS
 INTERSTATE SHEILDS 3 DIGITS

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-15.dwg	SHEET 15 OF 41
DRAWING TYPE: 5A	
DATE: JAN 2024	PTS-980

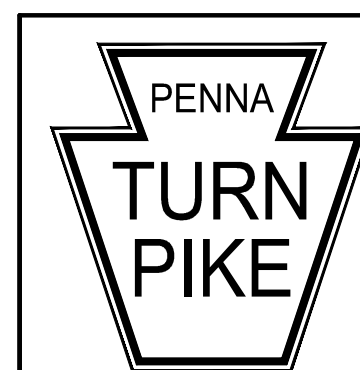


COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 GREEN REFLECTORIZED BACKGROUND



COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 GREEN REFLECTORIZED BACKGROUND

- NOTES:
 1. REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.
 2. STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
 3. FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
 4. SPACE 1 UNIT BETWEEN CHARACTERS.

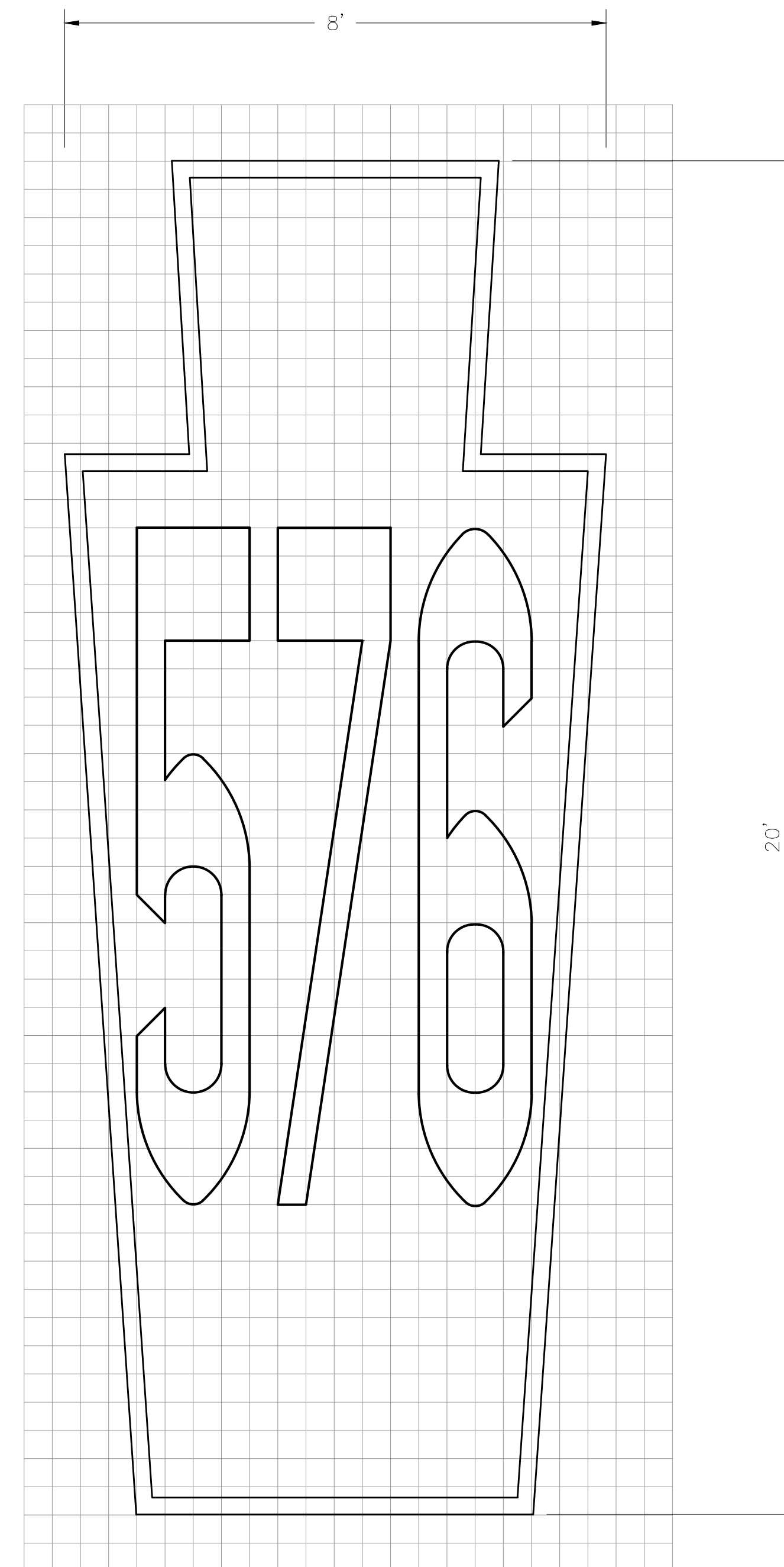
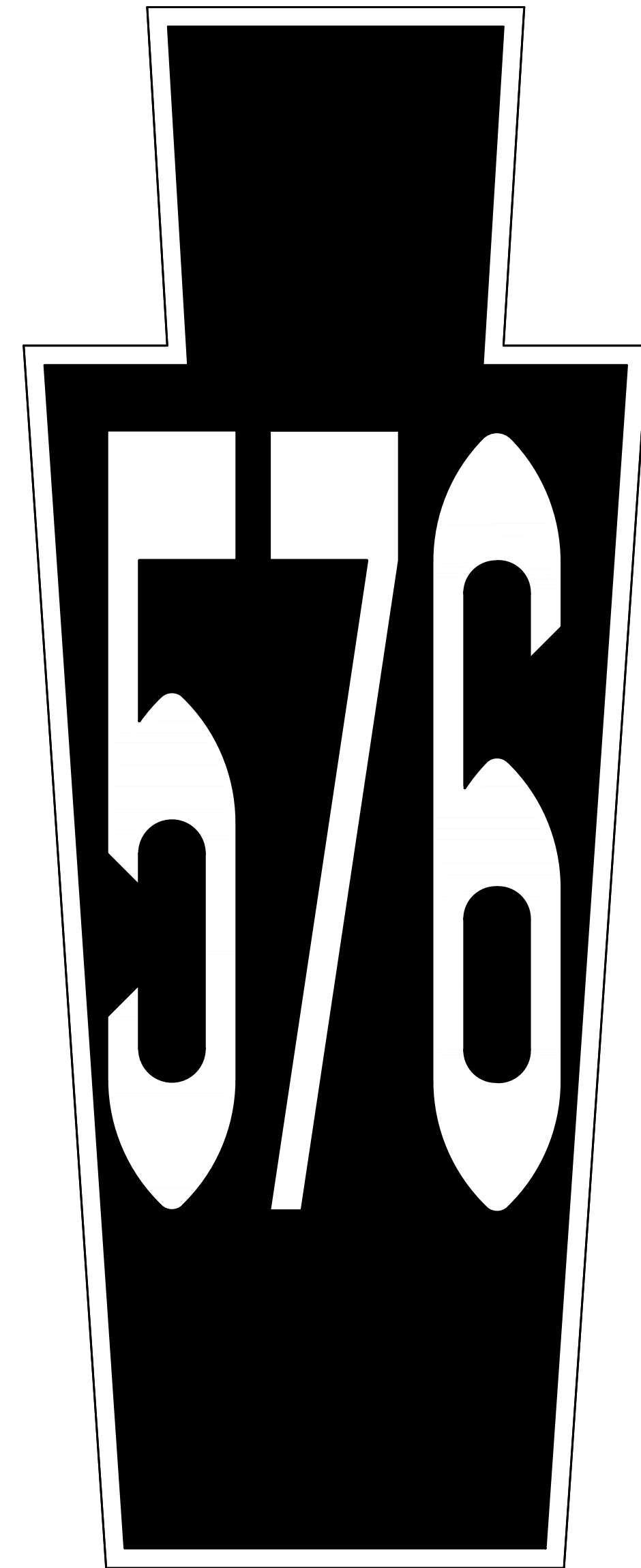


RECOMMENDED: MAY 3, 2024
Chris V. [Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
 PAVEMENT MARKING DETAIL
 PA TURNPIKE SHIELD 2 DIGITS

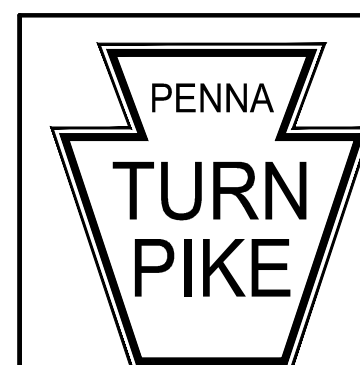
PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-16.dwg	SHEET 16 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



COLOR:
 WHITE REFLECTORIZED LEGEND AND BORDER
 GREEN REFLECTORIZED BACKGROUND

- NOTES:
1. REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.
 2. STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
 3. FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
 4. SPACE 1 UNIT BETWEEN CHARACTERS.



RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
 PAVEMENT MARKING DETAIL
 PA TURNPIKE SHIELD 3 DIGITS

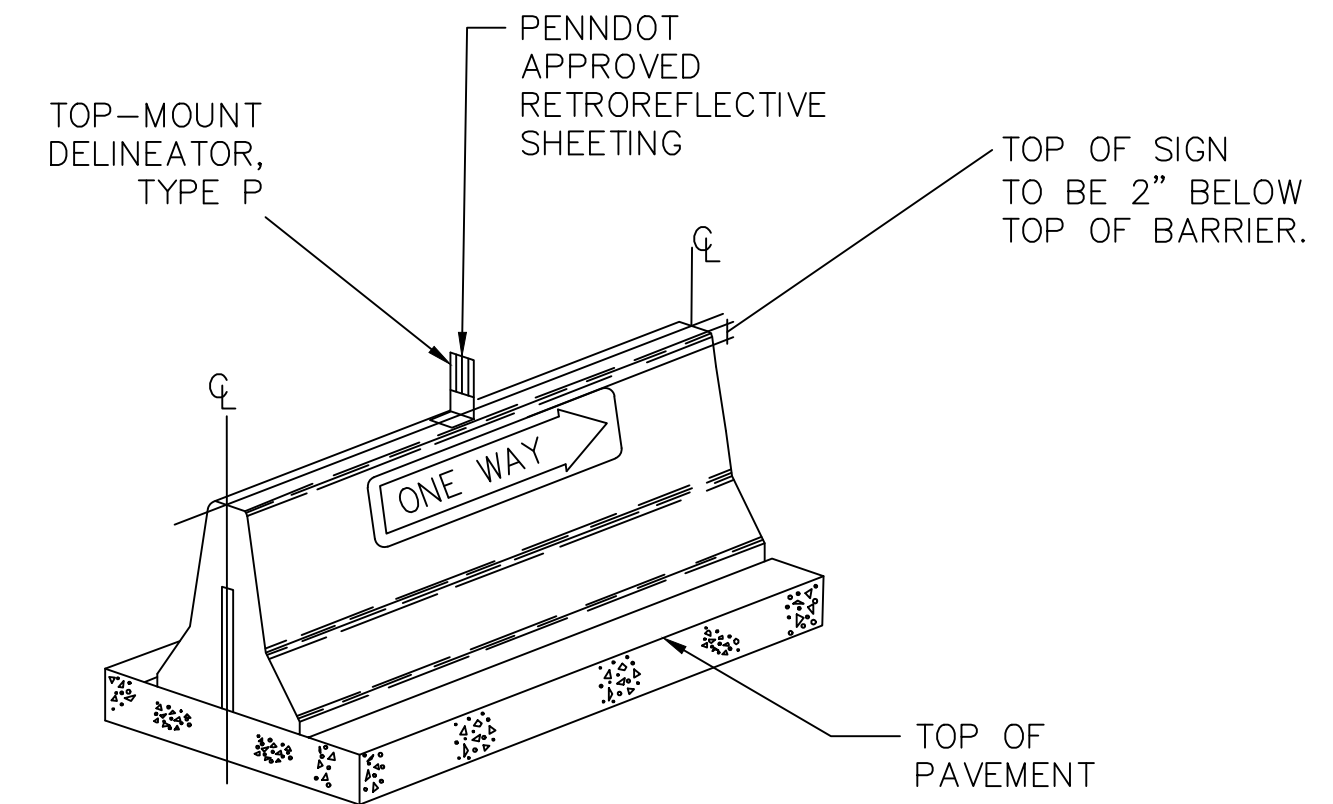
PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-17.dwg	SHEET 17 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980

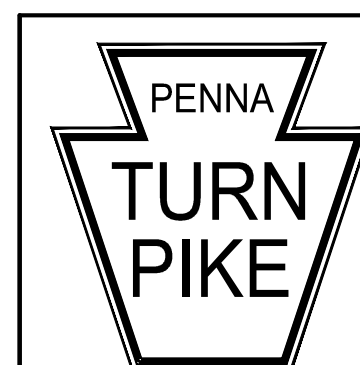
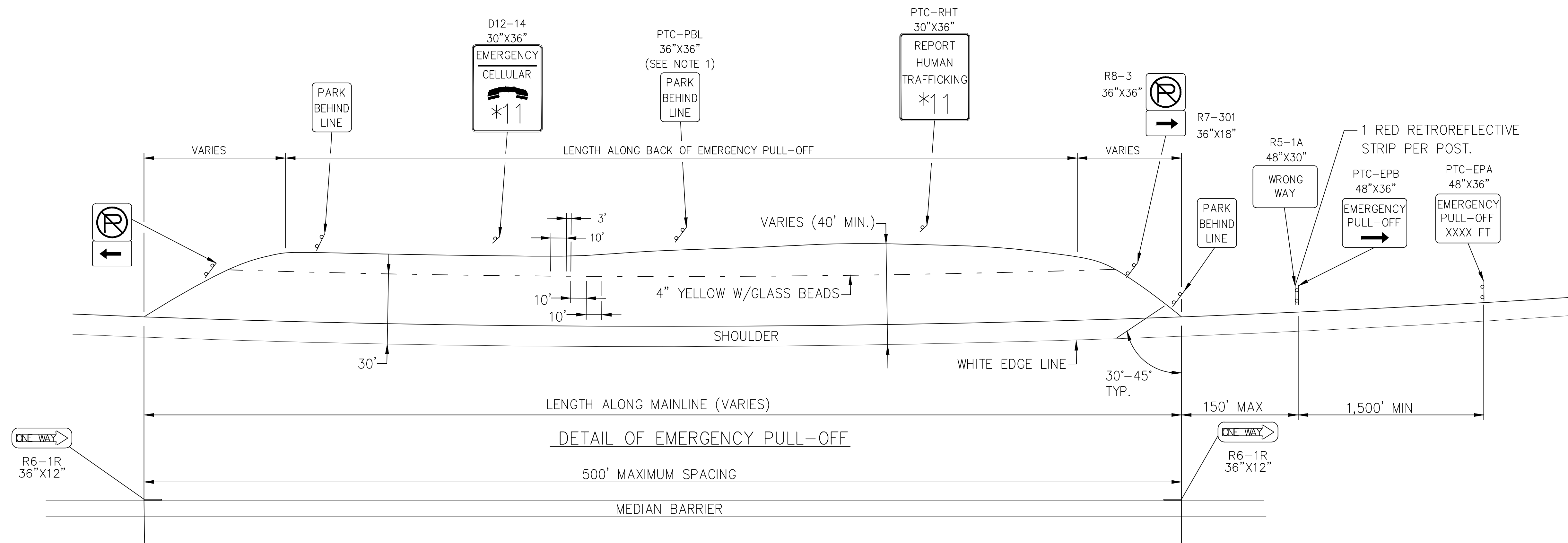
SIGN	NO. OF 4"X6" WOOD POSTS REQ'D. FOR EACH SIGN	TYPICAL NO. OF SIGNS
PTC-EPA	2	1
PTC-EPB	2	1
PTC-PBL	2	3 (SEE NOTE 1)
R8-3	2	2
R7-301	MOUNT BELOW R8-3	2
D12-14	1	1
PTC-RHT	1	1
R6-1R	MOUNT ON MEDIAN BARRIER	1
R5-1A	MOUNT ON BACK OF PTC-ESB	1

NOTES

- ADDITIONAL PTC-PBL SIGNS MAY BE INSTALLED IF LENGTH ALONG THE BACK OF PULL-OFF WARRANTS. PLACE SIGNS SUCH THAT A MAXIMUM SPACING OF 500' BETWEEN PTC-PBL SIGNS IS MAINTAINED.
- LOCATE "EMERGENCY PULL-OFF DISTANCE." SIGN (PTC-EPA, 48"X36") APPROXIMATELY 1,500 FEET PRIOR TO BEGINNING OF EMERGENCY PULL-OFF. EXCEPT WHERE SITE CONDITIONS PREVENT PLACEMENT OF THE 1,500 FEET SIGN, THE DISTANCE SHALL BE ROUNDED TO CLOSEST 500 FEET, AS APPROVED BY TRAFFIC ENGINEERING AND OPERATIONS. THE DISTANCE SHALL BE LIMITED TO A MAXIMUM DISTANCE OF 3,000 FEET.
- ONE WAY SIGNS TO BE SPACED AT A MAXIMUM SPACING OF 500 FEET. INSTALL ADDITIONAL ONE WAY SIGNS FOR EMERGENCY PULL-OFF AREAS WHERE THE LENGTH ALONG THE MAINLINE IS GREATER THAN 500 FEET SPACED EVENLY ALONG THE LENGTH OF THE EMERGENCY PULL-OFF.
- INSTALL TWO (2) ONE WAY SIGNS FOR ANY EMERGENCY PULL-OFF AREA THAT IS LESS THAN 500 FEET IN LENGTH.



CONCRETE MEDIAN BARRIER



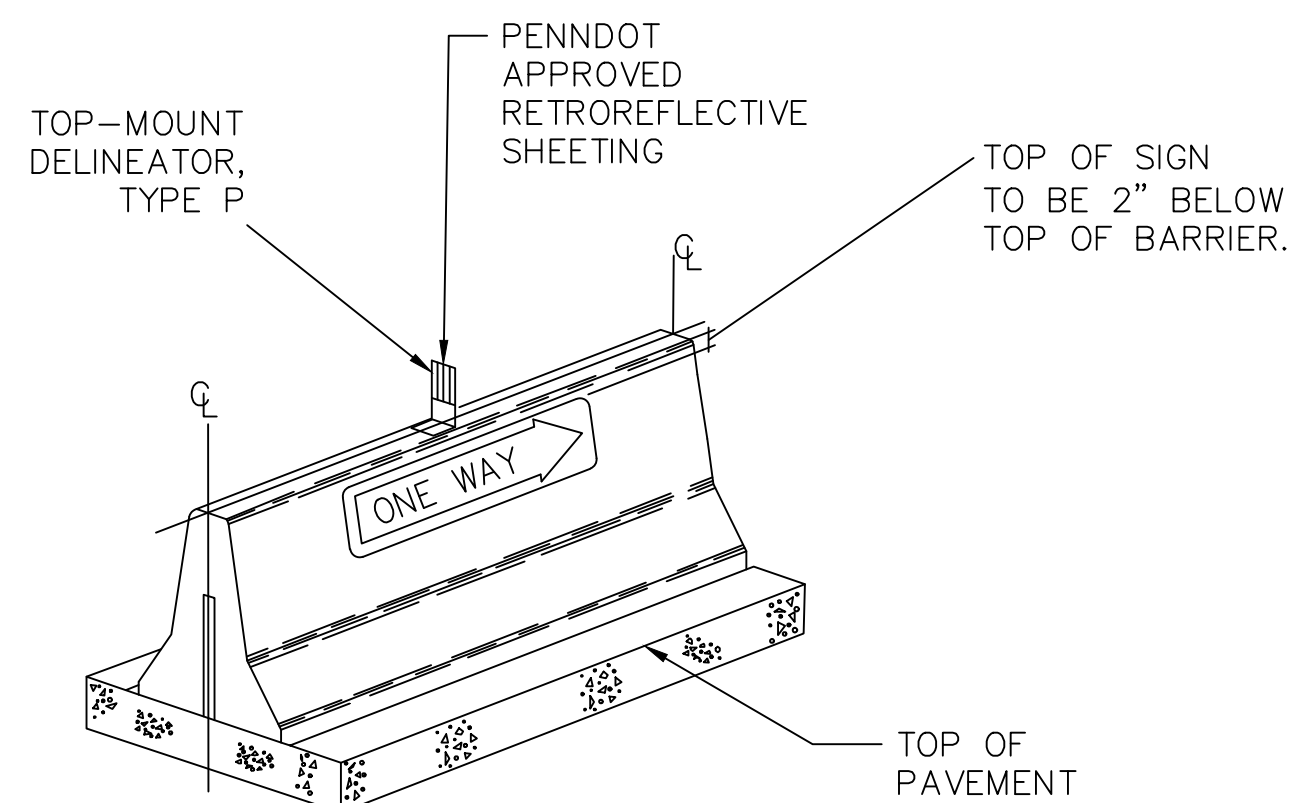
RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE
 EMERGENCY PULL-OFF AREA**

**PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING**

FILE NAME: PTS-980-18.dwg	SHEET 18 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980

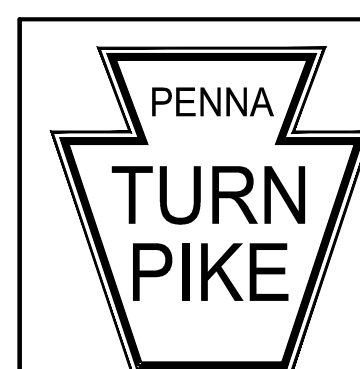
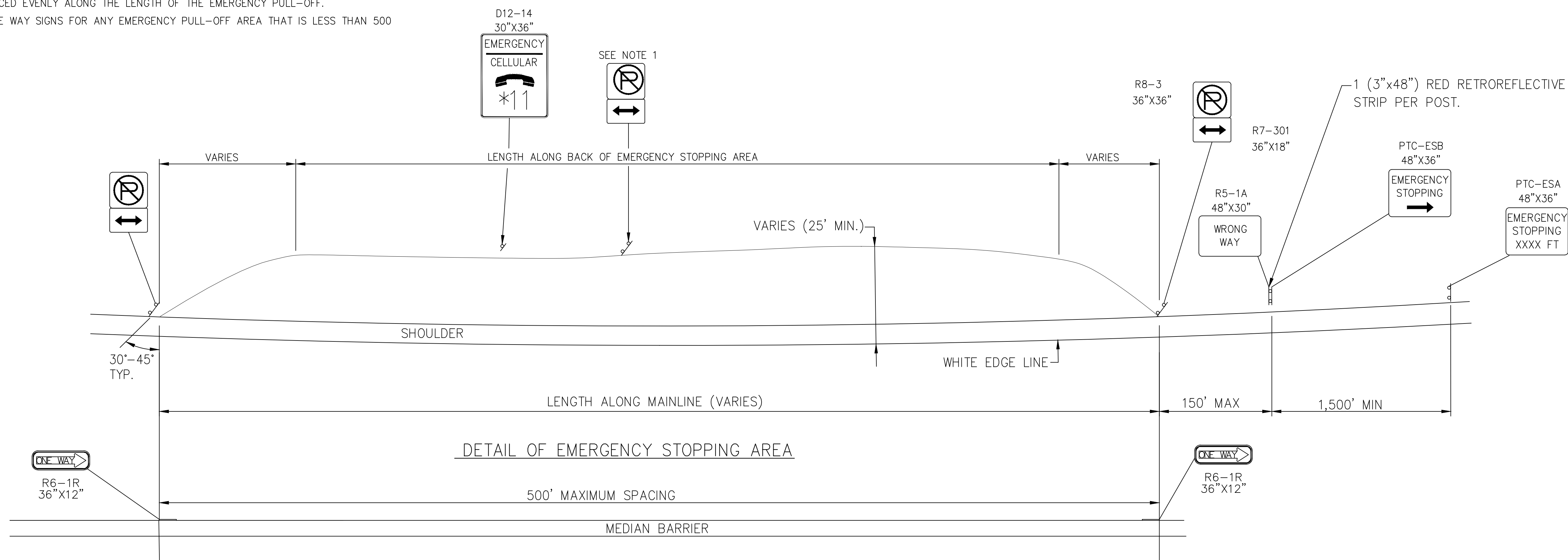
SIGN	NO. OF 4"x6" WOOD POSTS REQ'D. FOR EACH SIGN	TYPICAL NO. OF SIGNS
PTC-ESA	2	1
PTC-ESB	2	1
R8-3	2	2 (SEE NOTE 1)
R7-301	MOUNT BELOW R8-3	2 (SEE NOTE 1)
D12-14	1	1
R5-1A	MOUNT ON BACK OF PTC-EPB	1
R6-1R	MOUNT ON MEDIAN BARRIER	1



CONCRETE MEDIAN BARRIER

NOTES

- ADDITIONAL R8-3 AND R7-301 SIGNS MAY BE INSTALLED IF LENGTH ALONG THE BACK OF THE EMERGENCY STOPPING AREA WARRANTS. PLACE SIGNS SUCH THAT A MAXIMUM SPACING OF 500' BETWEEN R8-3 AND R7-301 SIGNS IS MAINTAINED.
- LOCATE "EMERGENCY STOPPING DISTANCE" SIGN (PTC-ESA, 48"x36") APPROXIMATELY 1,500 FEET PRIOR TO BEGINNING OF EMERGENCY STOPPING AREA. EXCEPT WHERE SITE CONDITIONS PREVENT PLACEMENT OF THE 1,500 FEET SIGN, THE DISTANCE SHALL BE ROUNDED TO THE CLOSEST 500 FEET, AS APPROVED BY TRAFFIC ENGINEERING AND OPERATIONS. THE DISTANCE SHALL BE LIMITED TO A MAXIMUM DISTANCE OF 3,000 FEET.
- ONE WAY SIGNS TO BE SPACED AT A MAXIMUM SPACING OF 500 FEET. INSTALL ADDITIONAL ONE WAY SIGNS FOR EMERGENCY PULL-OFF AREAS WHERE THE LENGTH ALONG THE MAINLINE IS GREATER THAN 500 FEET SPACED EVENLY ALONG THE LENGTH OF THE EMERGENCY PULL-OFF.
- INSTALL TWO (2) ONE WAY SIGNS FOR ANY EMERGENCY PULL-OFF AREA THAT IS LESS THAN 500 FEET IN LENGTH.



RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
 EMERGENCY STOPPING AREA

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-19.dwg
 DRAWING TYPE: 5A

SHEET 19 OF 41

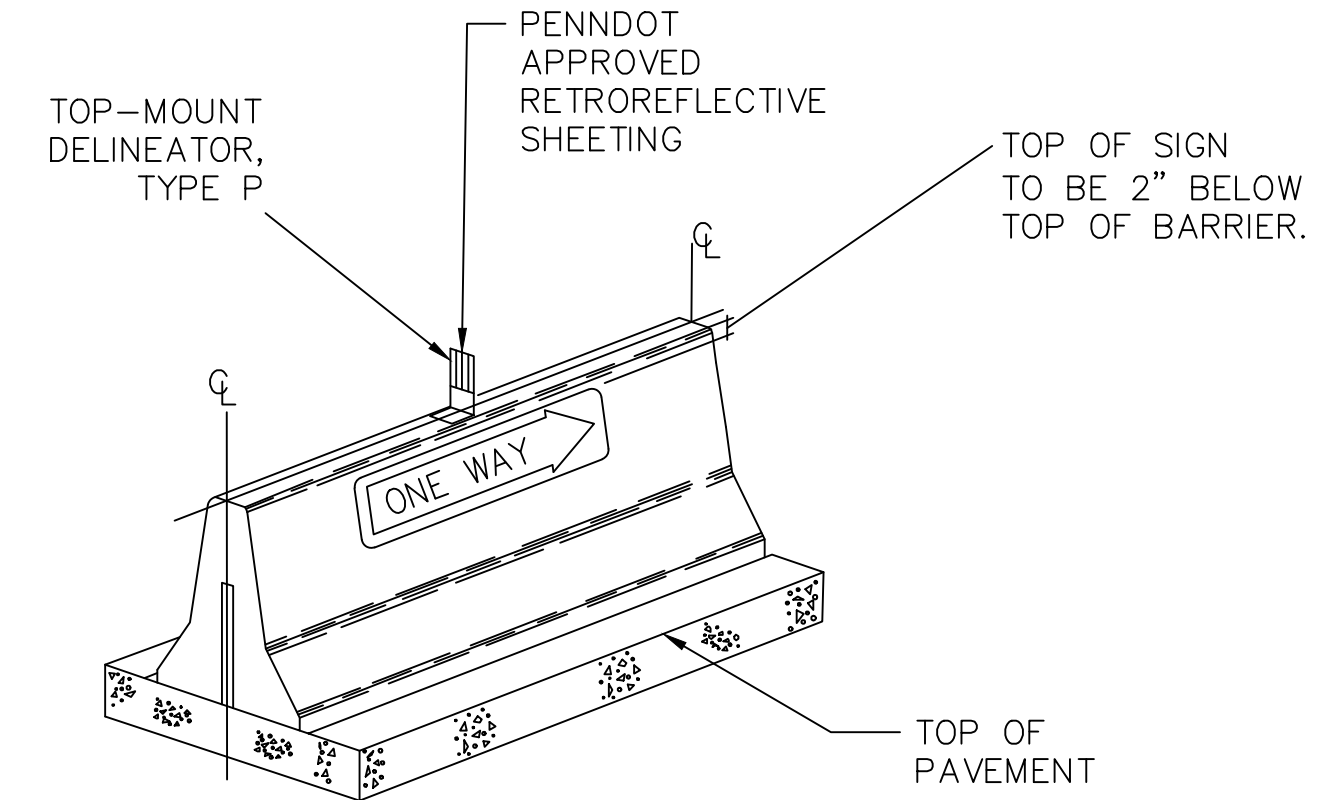
DATE: APRIL 2024

PTS-980

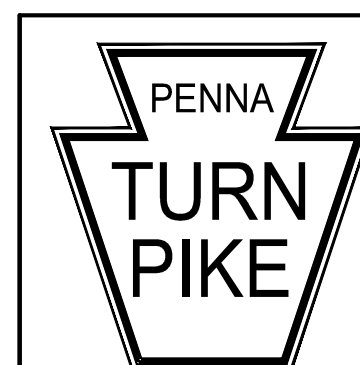
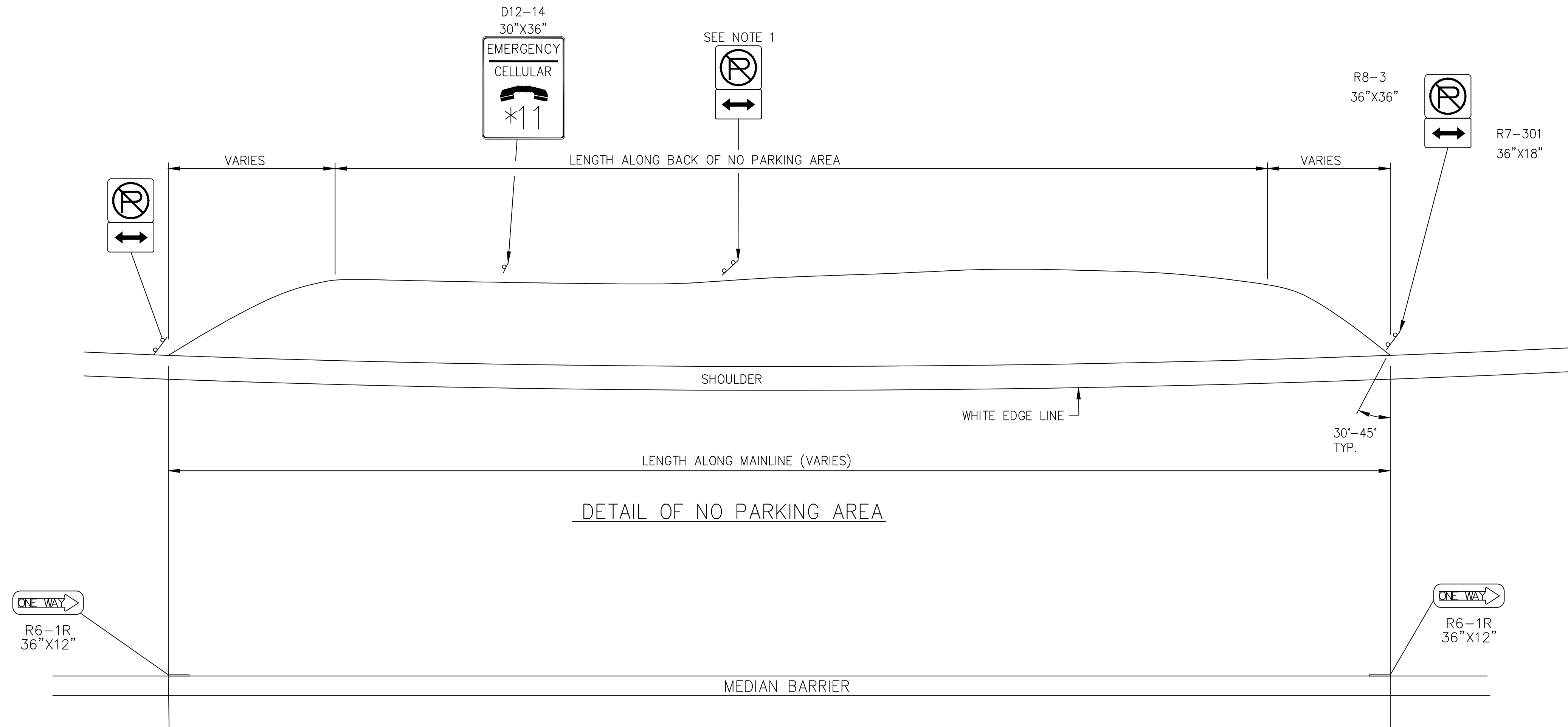
SIGN	NO. OF 4"X6" WOOD POSTS REQ'D. FOR EACH SIGN	TYPICAL NO. OF SIGNS
R8-3	2	2 (SEE NOTE 1)
R7-301	MOUNT BELOW R8-3	2 (SEE NOTE 1)
D12-14	1	1
R5-1R	MOUNT ON MEDIAN BARRIER	1

NOTES

- ADDITIONAL R8-3 AND R7-301 SIGNS MAY BE INSTALLED IF LENGTH ALONG THE BACK OF THE NO PARKING AREA WARRANTS. PLACE SIGNS SUCH THAT A MAXIMUM SPACING OF 500' BETWEEN R8-3 AND R7-301 SIGNS IS MAINTAINED.
- ONE WAY SIGNS TO BE SPACED AT A MAXIMUM SPACING OF 500 FEET. INSTALL ADDITIONAL ONE WAY SIGNS FOR NO PARKING AREAS WHERE THE LENGTH ALONG THE MAINLINE IS GREATER THAN 500 FEET SPACED EVENLY ALONG THE LENGTH OF THE NO PARKING AREA.
- INSTALL TWO (2) ONE WAY SIGNS FOR ANY NO PARKING AREA THAT IS LESS THAN 500 FEET IN LENGTH.



CONCRETE MEDIAN BARRIER

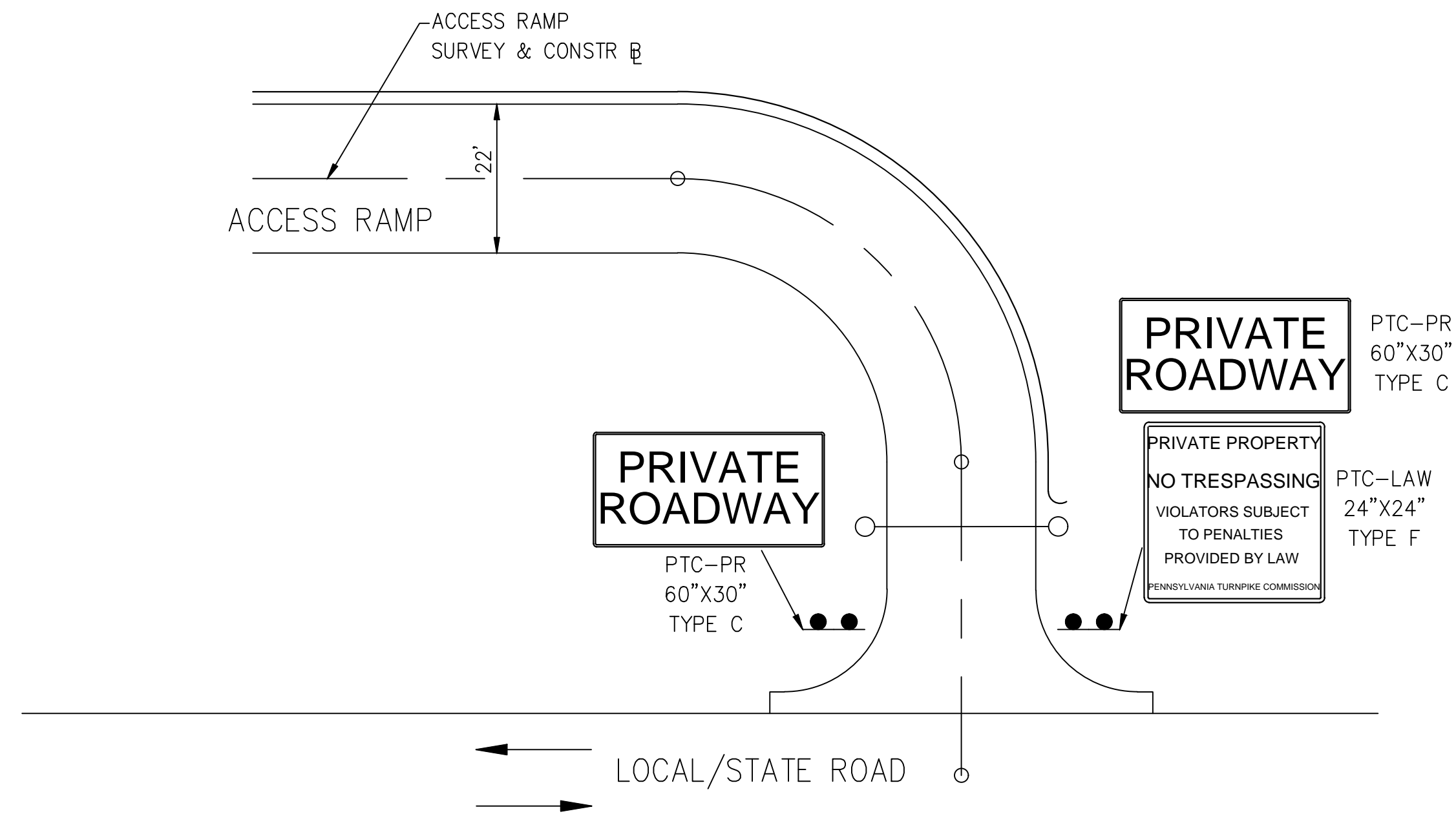


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

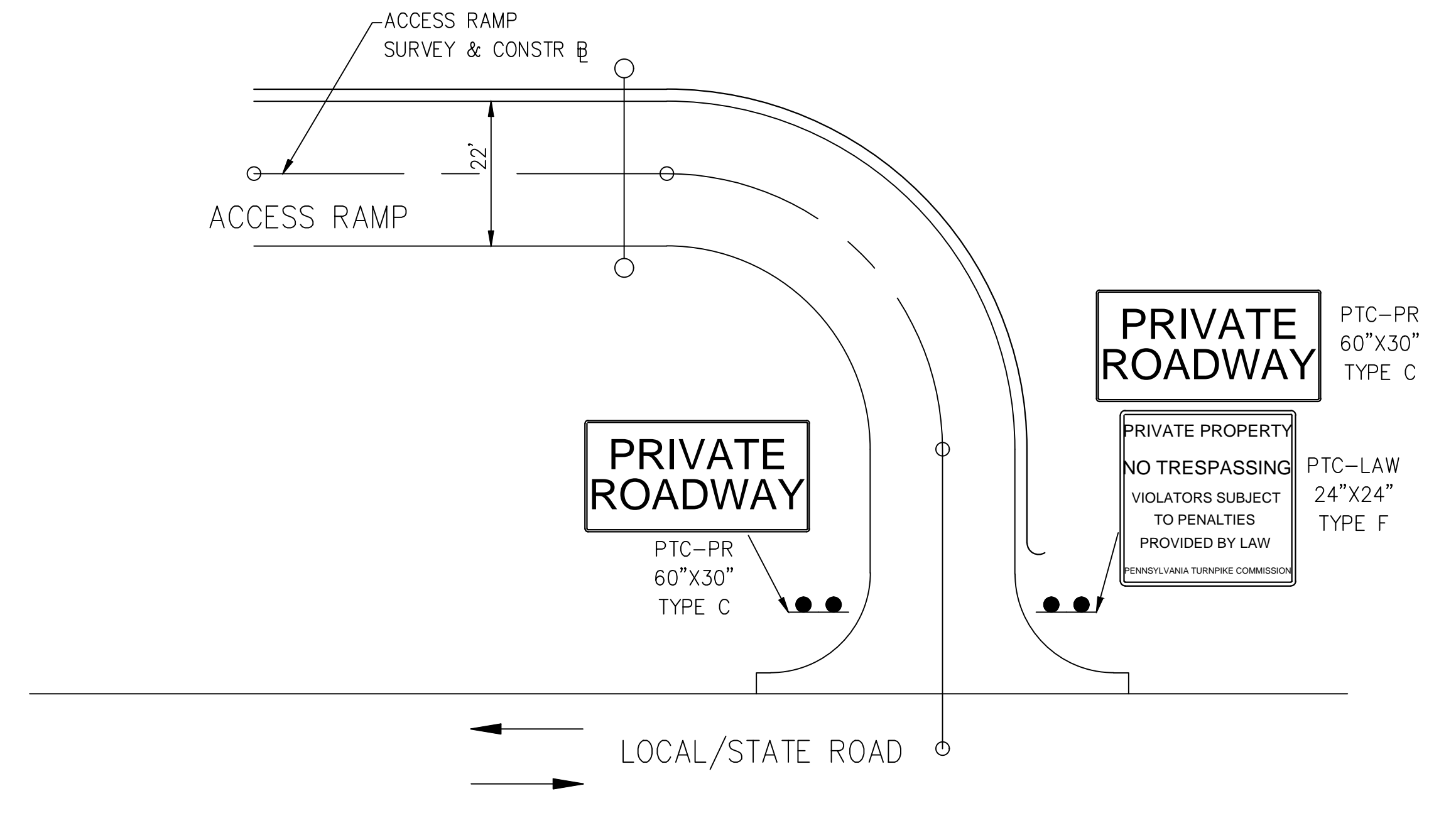
CONSTRUCTION AND MAINTENANCE
 NO PARKING AREA

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

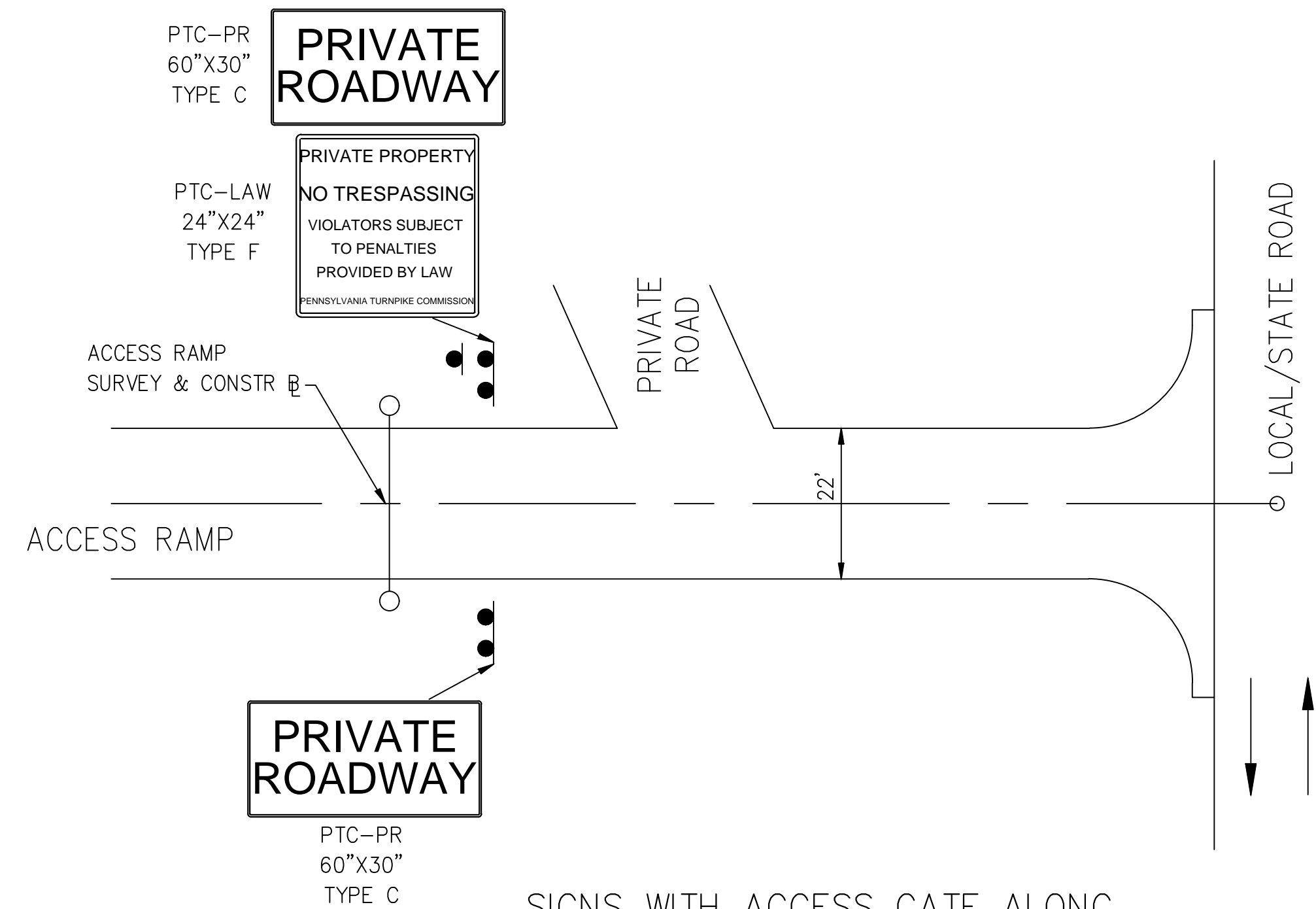
FILE NAME: PTS-980-20.dwg	SHEET 20 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



SIGNS WITH ACCESS GATE AT ENTRANCE TO LOCAL ROAD



SIGNS AT ENTRANCE TO LOCAL ROAD WITH ACCESS GATE BACK FROM LOCAL ROAD

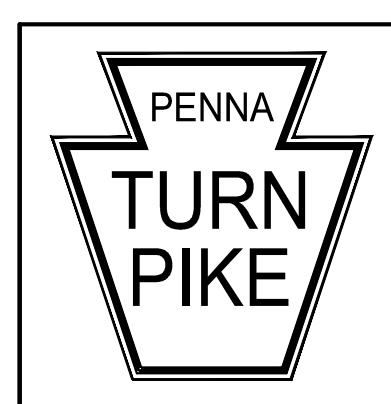


SIGNS WITH ACCESS GATE ALONG PTC RIGHT-OF-WAY BACK FROM SHARED DRIVEWAY ENTRANCE

LEGEND

- SIGN & SUPPORT
- ACCESS GATE
- TRAFFIC FLOW

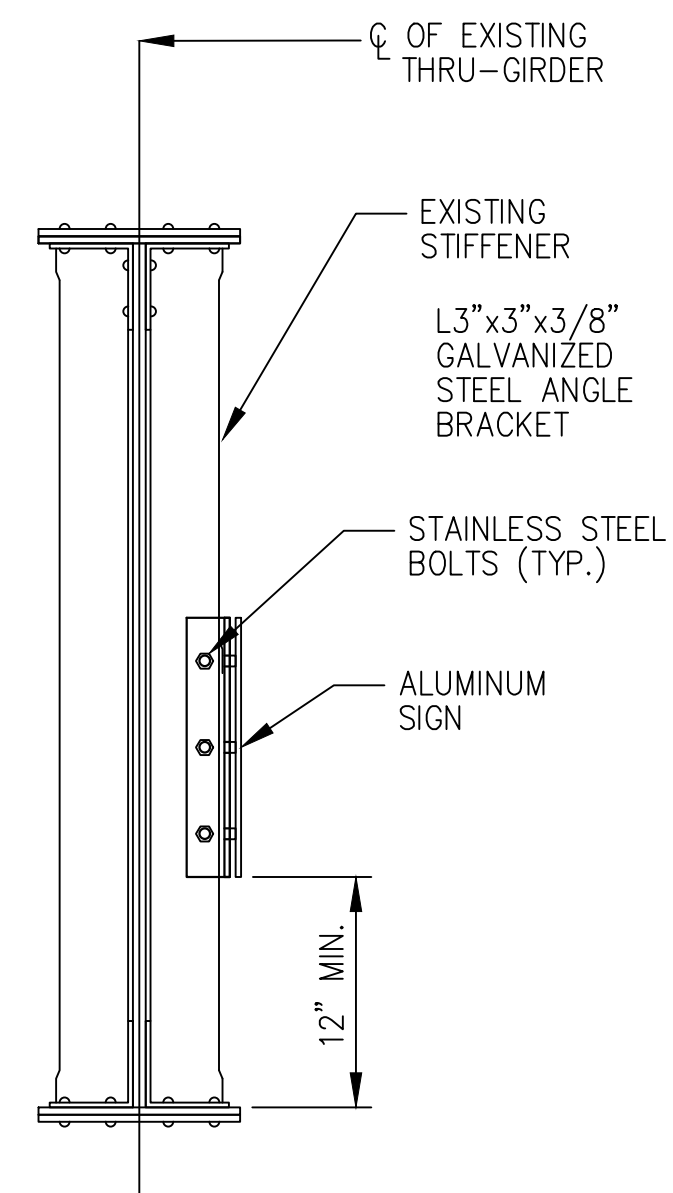
- NOTES:**
1. SIGNS TO BE INSTALLED ON PTC RIGHT-OF-WAY.
 2. SIGNS TO BE INSTALLED FACING VEHICLES THAT ARE ENTERING FROM THE LOCAL OR STATE ROAD.
 3. SIGNS TO BE INSTALLED ON THE OUTSIDE (STATE/LOCAL ROAD) SIDE OF THE ACCESS GATE.



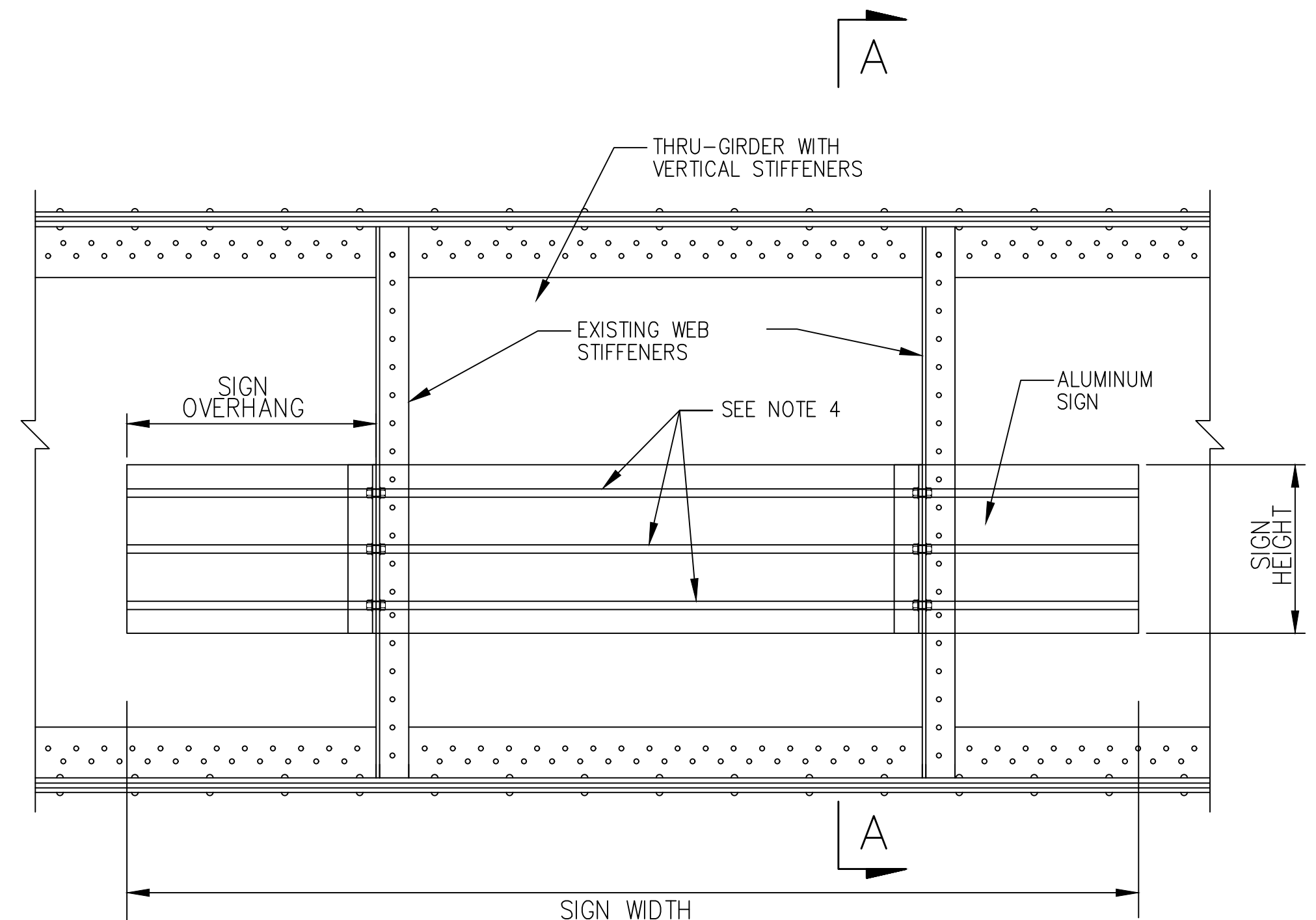
RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE
 PRIVATE ROADWAY AND
 NO TRESPASSING SIGN LOCATION
 INSTALLATION DETAILS**

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-21.dwg	SHEET 21 OF 40
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



SECTION A-A
NOT TO SCALE

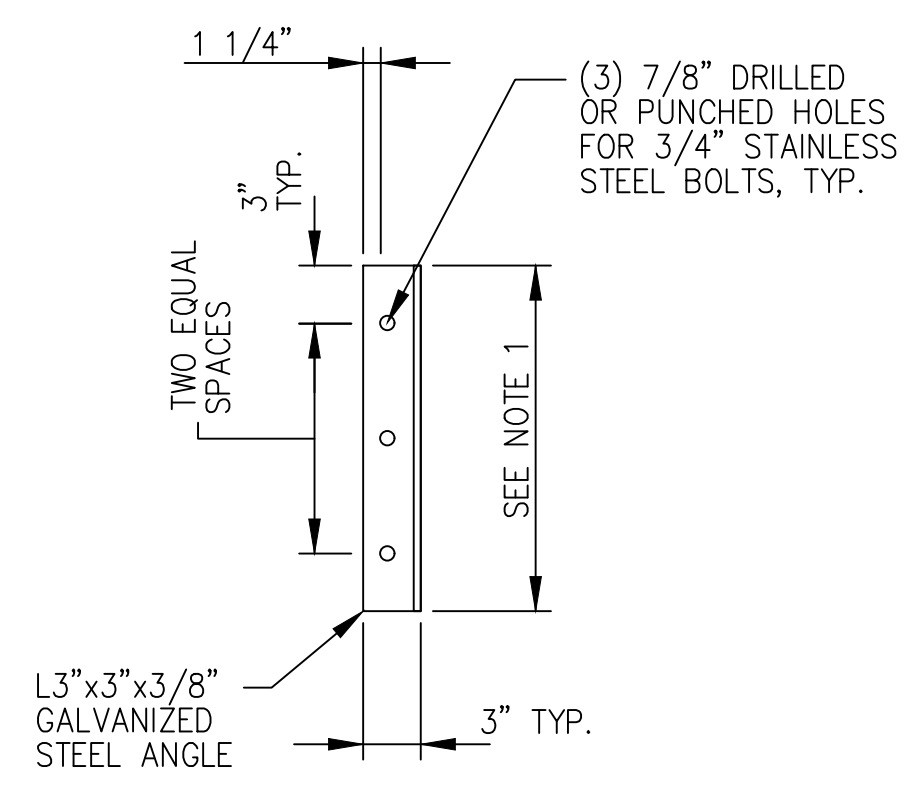


ELEVATION
NOT TO SCALE

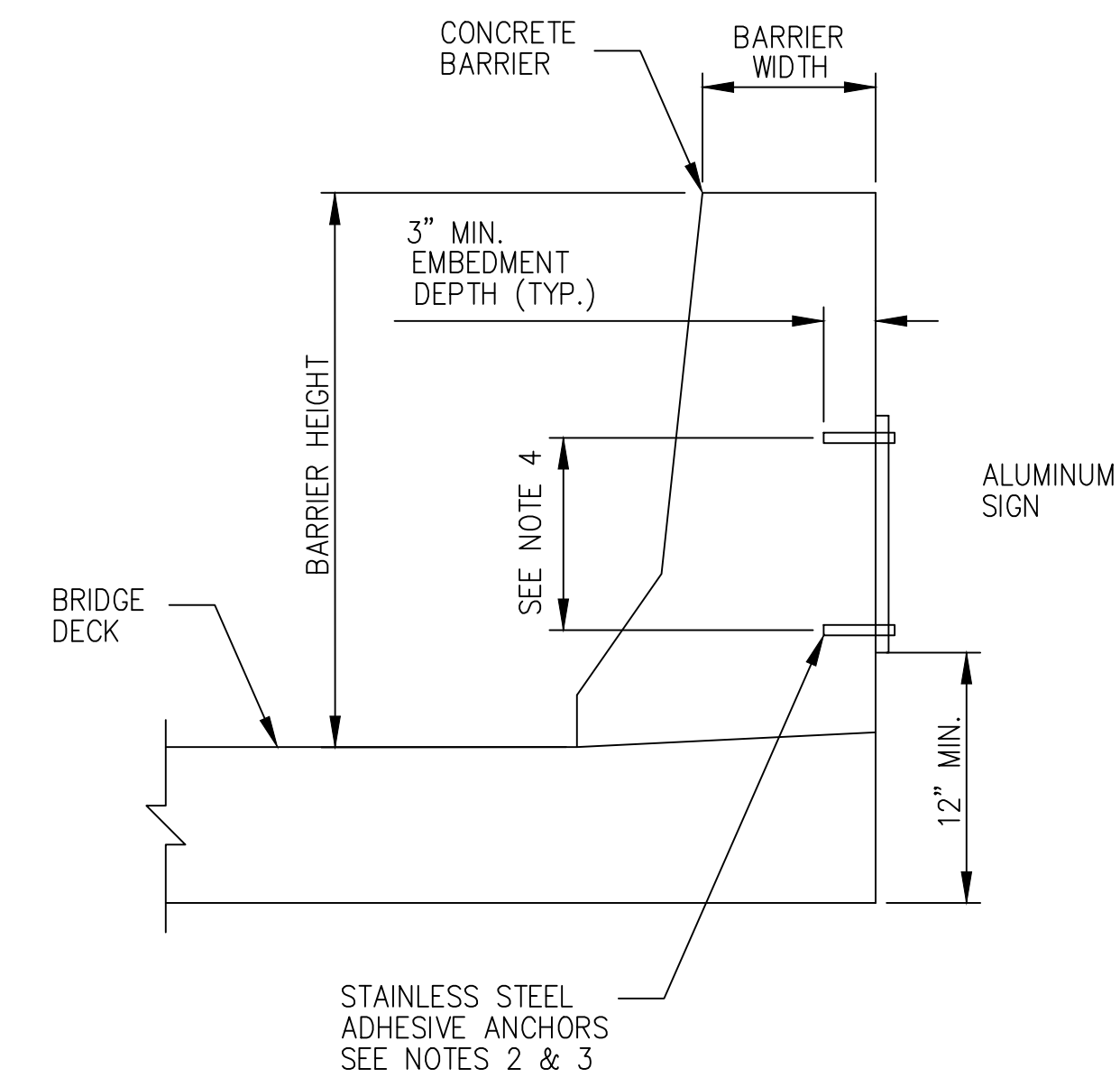
SIGN SUPPORT DETAIL FOR THRU-GIRDER

NOTES FOR THRU-GIRDER SIGN SUPPORT:

1. PROVIDE ONE GALVANIZED ANGLE BRACKET PER GIRDER STIFFENER. ANGLE LENGTH TO MATCH SIGN HEIGHT.
2. USE 3/4" DIA. ASTM F593 STAINLESS STEEL BOLT WITH CONNECTIONS AS PER SECTION 1105. BOLT LENGTHS WILL VARY DEPENDING ON THE EXISTING VERTICAL STIFFENER THICKNESS.
3. CENTER THE SIGN WITHIN THE VERTICAL STIFFENERS.
4. PROVIDE STIFFENERS AS REQUIRED PER PUBLICATION 111, (TC-8701S).
5. USE POST CLIPS TO MOUNT TO ANGLE BRACKET PER PUB. 111.
6. VERIFY ENTERING AND TIGHTENING CLEARANCES OF ALL CONNECTIONS PRIOR TO INSTALLATION.
7. PREPARE ALL BOLT HOLES, BOTH SHOP AND FIELD DRILLED OR PUNCHED HOLES, ACCORDING TO SECTION 1105.03 (C).
8. COAT EXPOSED METAL CAUSED BY FIELD DRILLING BOLT HOLES USING A ZINC RICH PRIMER, 3 COAT SYSTEM ACCORDING TO SECTION 1071.
9. MOUNT SIGN LEVEL TO GROUND.



ANGLE DETAIL
NOT TO SCALE

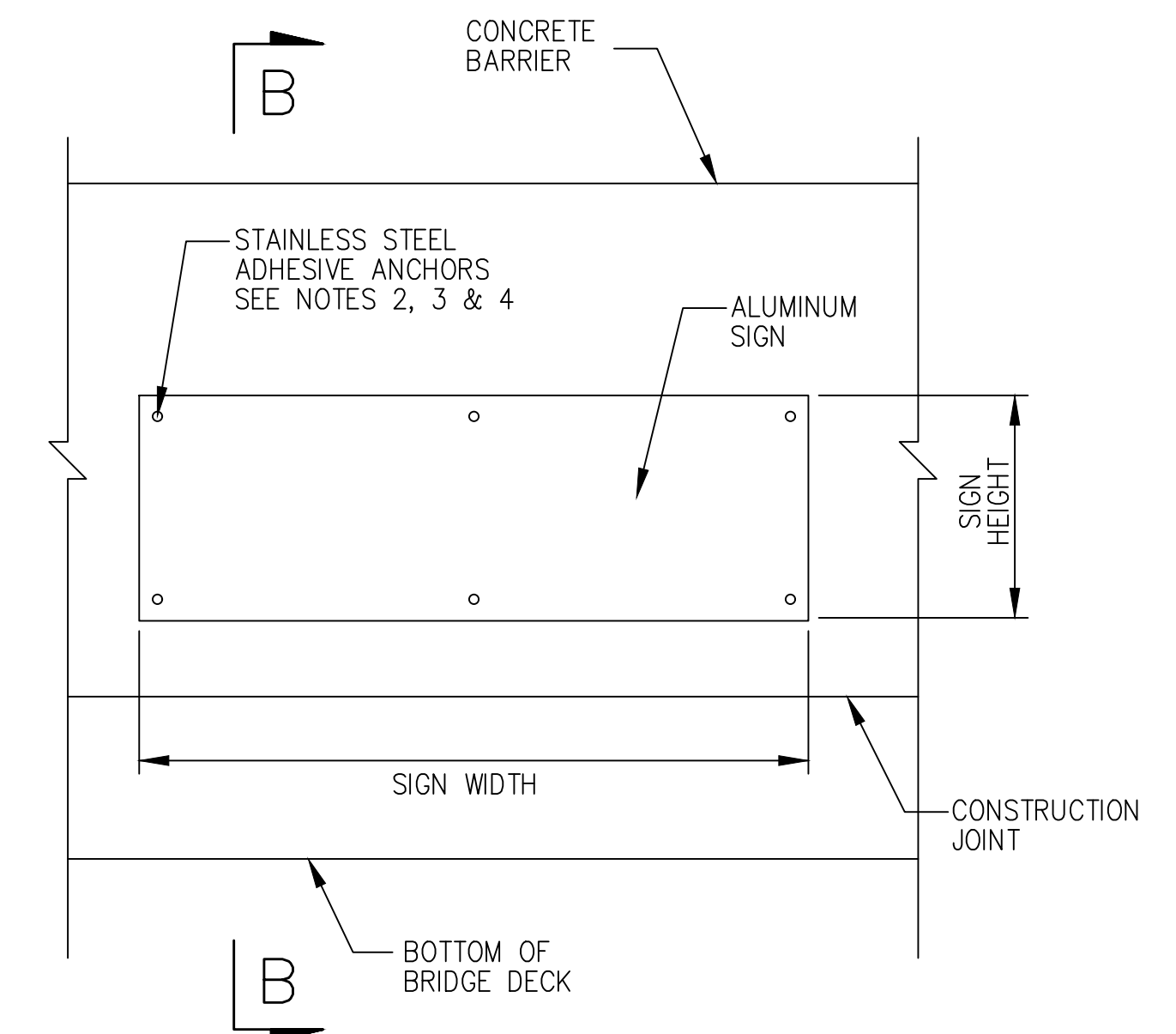


SECTION B-B
NOT TO SCALE

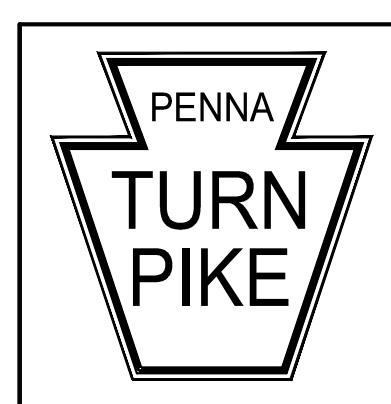
SIGN SUPPORT DETAIL FOR CONCRETE BARRIERS

NOTES FOR BARRIER SIGN SUPPORT:

1. ATTACH STREET SIGN FLUSH TO CONCRETE BARRIER USING 1/2" DIA. STAINLESS STEEL ADHESIVE ANCHORS WITH A MINIMUM PULLOUT CAPACITY OF 2,000 PSI.
2. EMBEDMENT REQUIREMENTS FOR ADHESIVE ANCHORS VARY, CHECK MANUFACTURER SPECIFICATIONS TO ENSURE MINIMUM PULLOUT STRENGTH WILL BE SATISFIED PRIOR TO INSTALLATION. PROVIDE 3" MIN. EMBEDMENT DEPTH.
3. HORIZONTAL MAXIMUM SPACING BETWEEN ADHESIVE ANCHORS TO BE 18" CENTER TO CENTER.
4. VERTICAL MAXIMUM SPACING BETWEEN ADHESIVE ANCHORS TO BE 18" CENTER TO CENTER. VERTICAL ADHESIVE ANCHORS AT EACH END OF SIGN ONLY.
5. BRIDGE BARRIER DIMENSIONS VARY, VERIFY PROPER CONCRETE COVER AND CLEARANCES ARE PROVIDED FOR ANCHORAGE.
6. MOUNT SIGN LEVEL TO GROUND.



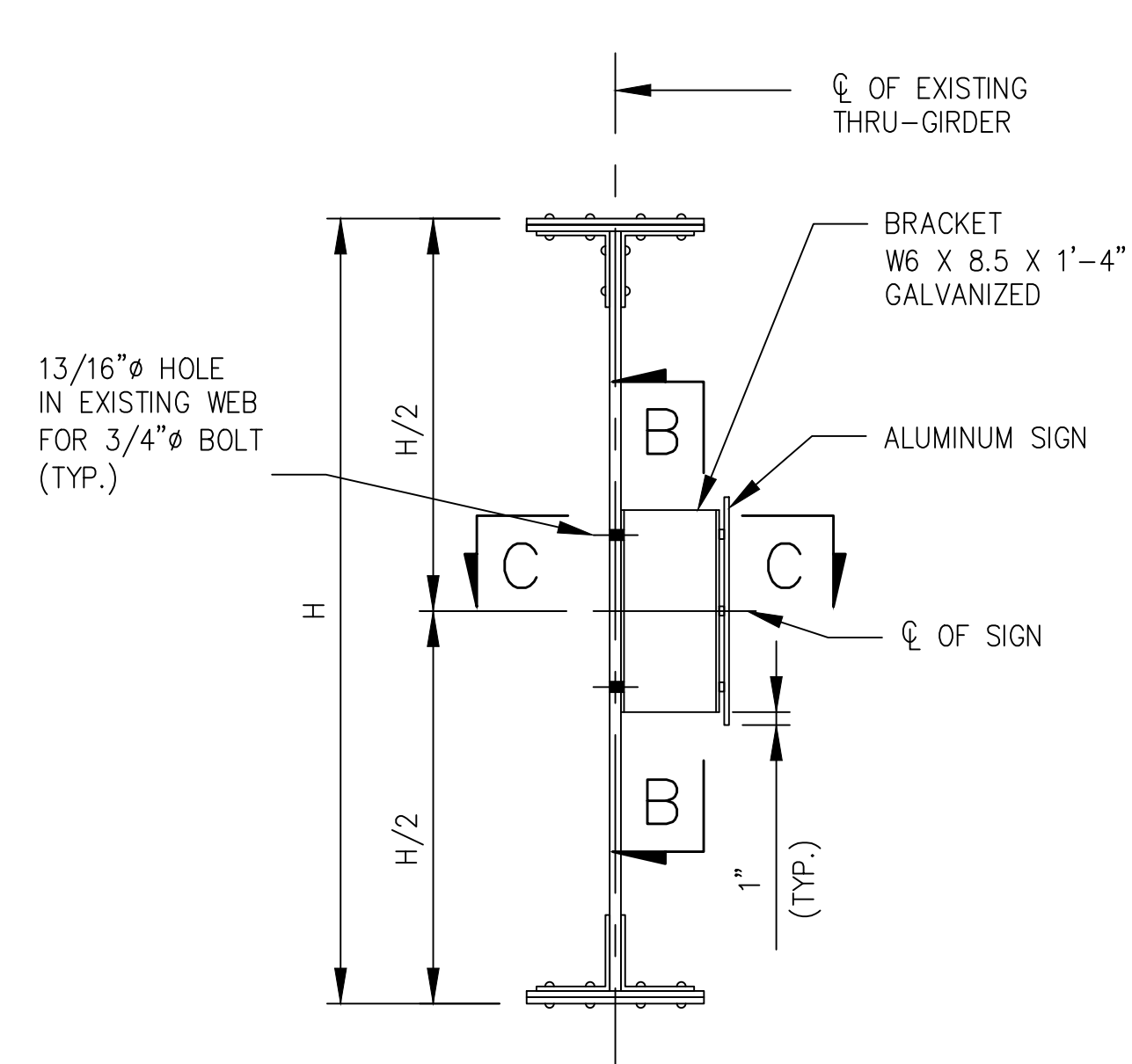
ELEVATION
NOT TO SCALE



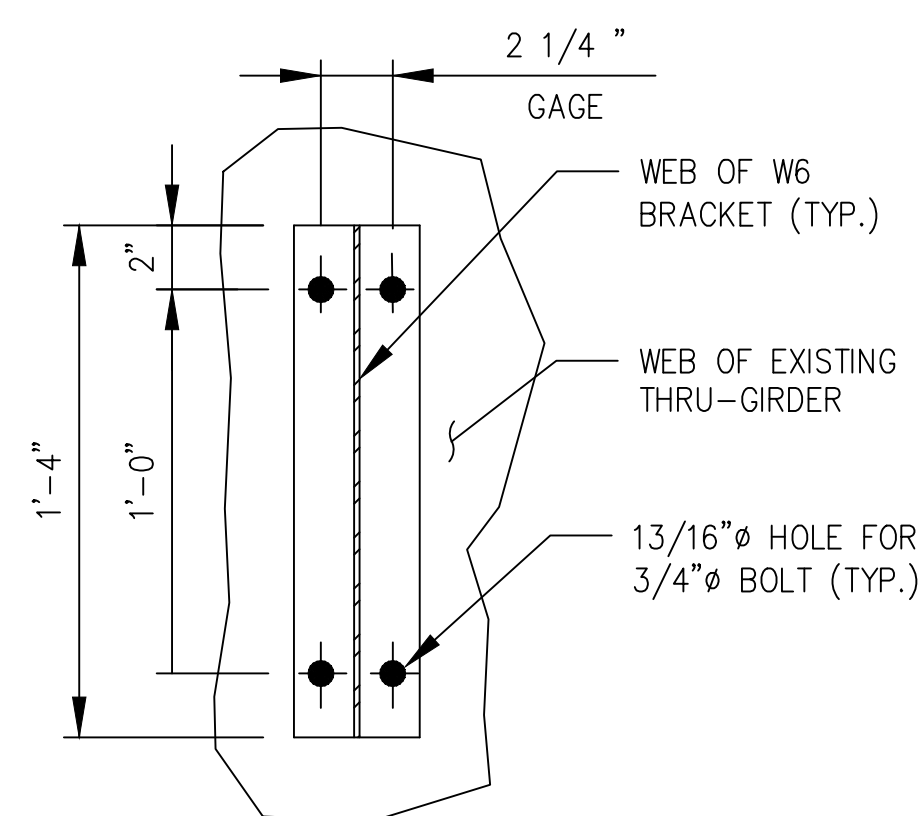
RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

**CONSTRUCTION
 MAINTENANCE AND PROTECTION OF TRAFFIC
 THRU-GIRDER & BARRIER
 SIGN SUPPORT DETAILS**

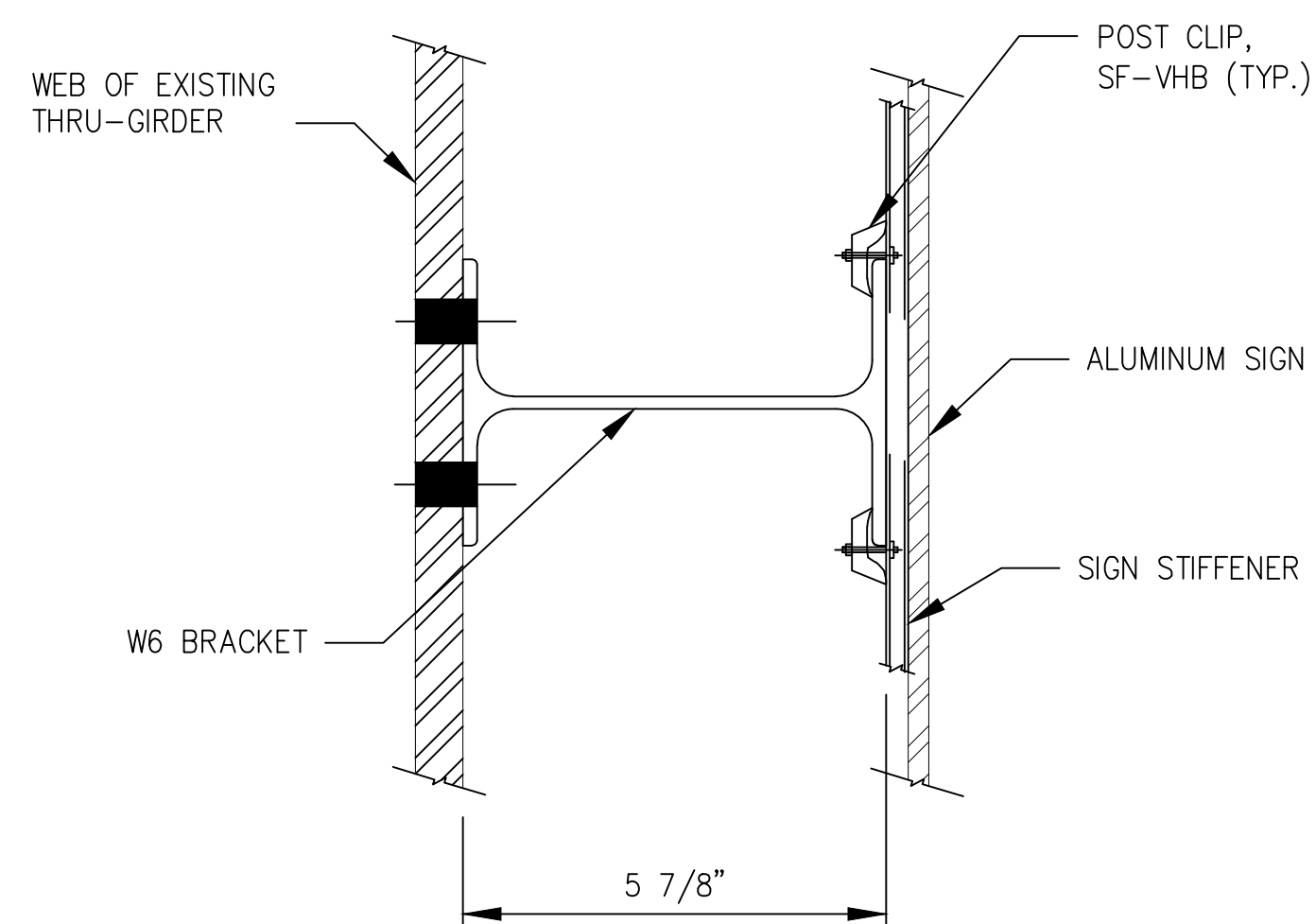
**PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING**
 FILE NAME: PTS-980-22.dwg
 DRAWING TYPE: 5A
 SHEET 22 OF 41
 DATE: APRIL 2024
 PTS-980



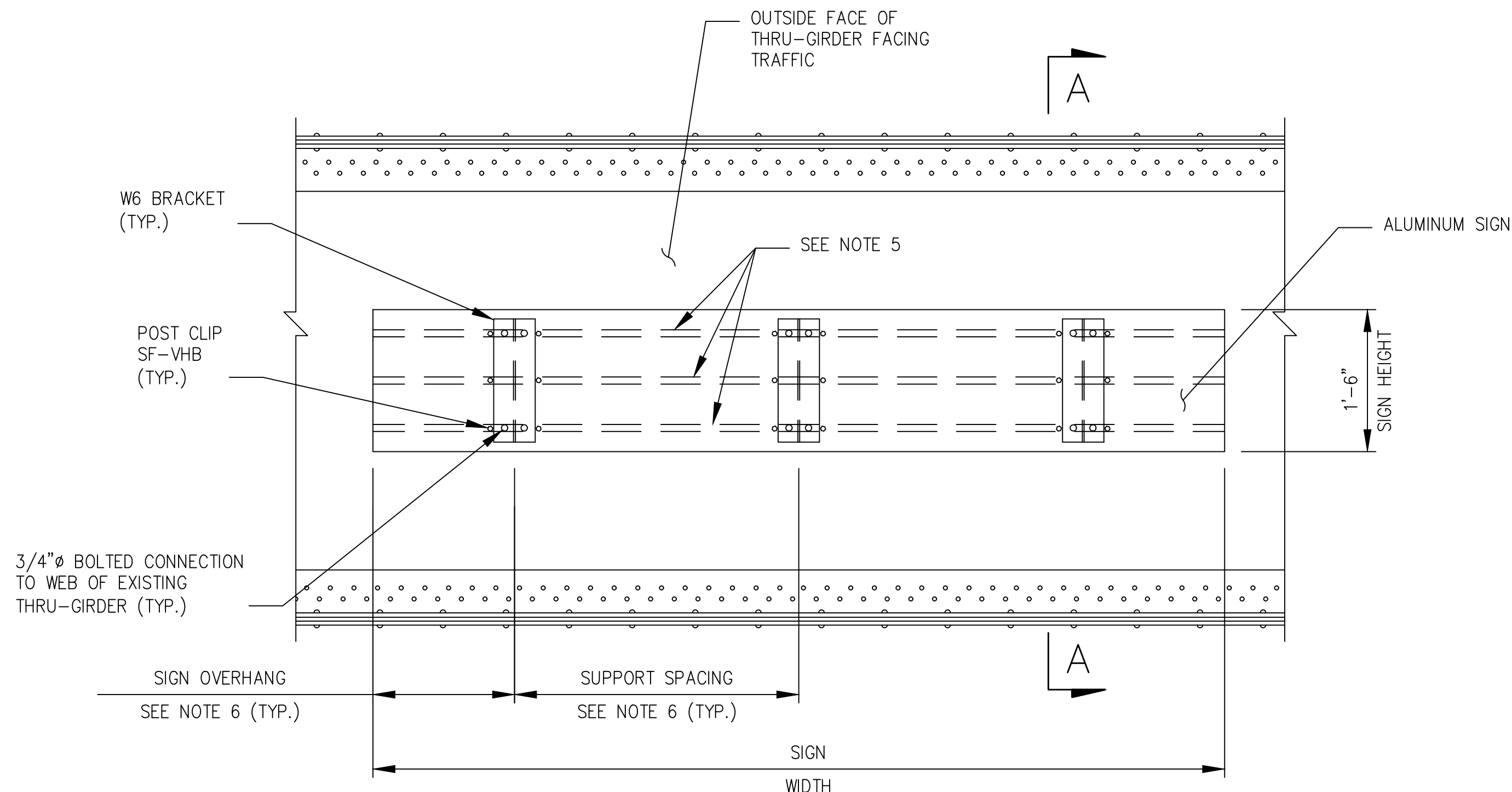
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE

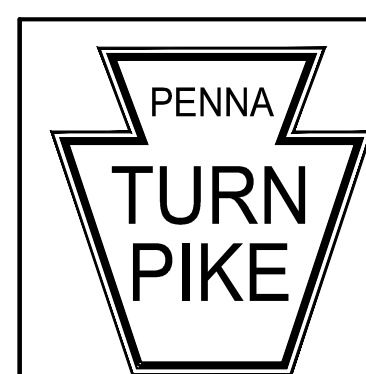


ELEVATION
NOT TO SCALE

SIGN SUPPORT DETAIL
FOR THRU-GIRDER

NOTES FOR THRU-GIRDER SIGN SUPPORT:

1. PROVIDE ASTM A36 STEEL GALVANIZED BRACKETS AS SHOWN TO MATCH HEIGHT OF SIGN.
2. USE 3/4" DIAMETER ASTM A325 HIGH STRENGTH GALVANIZED BOLT WITH CONNECTIONS IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1105. BOLT LENGTHS VARY DEPENDING ON THE THICKNESS OF THE EXISTING GIRDER WEB.
3. PREPARE ALL BOLT HOLES, BOTH SHOP AND FIELD DRILLED OR PUNCHED HOLES IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1105.03(C) & (D).
4. PAINT ALL STEEL EXPOSED DURING FIELD DRILLING OR PUNCHING OF HOLES IN ACCORDANCE WITH PENNDOT PUBLICATION 1071.
5. PROVIDE SIGN STIFFENERS AS REQUIRED IN ACCORDANCE WITH PENNDOT PUBLICATION 111, TC-8701S.
6. PROVIDE A MINIMUM OF TWO (2) W6 BRACKET (VERTICAL) SUPPORTS AT SPACING (OR SPACINGS) AND OVERHANGS IN ACCORDANCE WITH PENNDOT PUBLICATION 111, TC-8701S, GENERAL NOTE NO. 3.
7. USE POST CLIPS (SF-VHB) TO MOUNT SIGN TO BRACKETS IN ACCORDANCE WITH PENNDOT PUBLICATION 111, TC-8701S.
8. MOUNT SIGN LEVEL WITH GROUND LINE.
9. VERIFY ENTERING AND TIGHTENING CLEARANCES OF ALL CONNECTIONS PRIOR TO INSTALLATION.



RECOMMENDED: MAY 3, 2024

Chris V. [Signature]
ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: MAY 3, 2024

[Signature]
CHIEF ENGINEER

**CONSTRUCTION
MAINTENANCE AND PROTECTION OF TRAFFIC
THRU-GIRDER
SIGN SUPPORT DETAILS FOR GIRDER WEB**

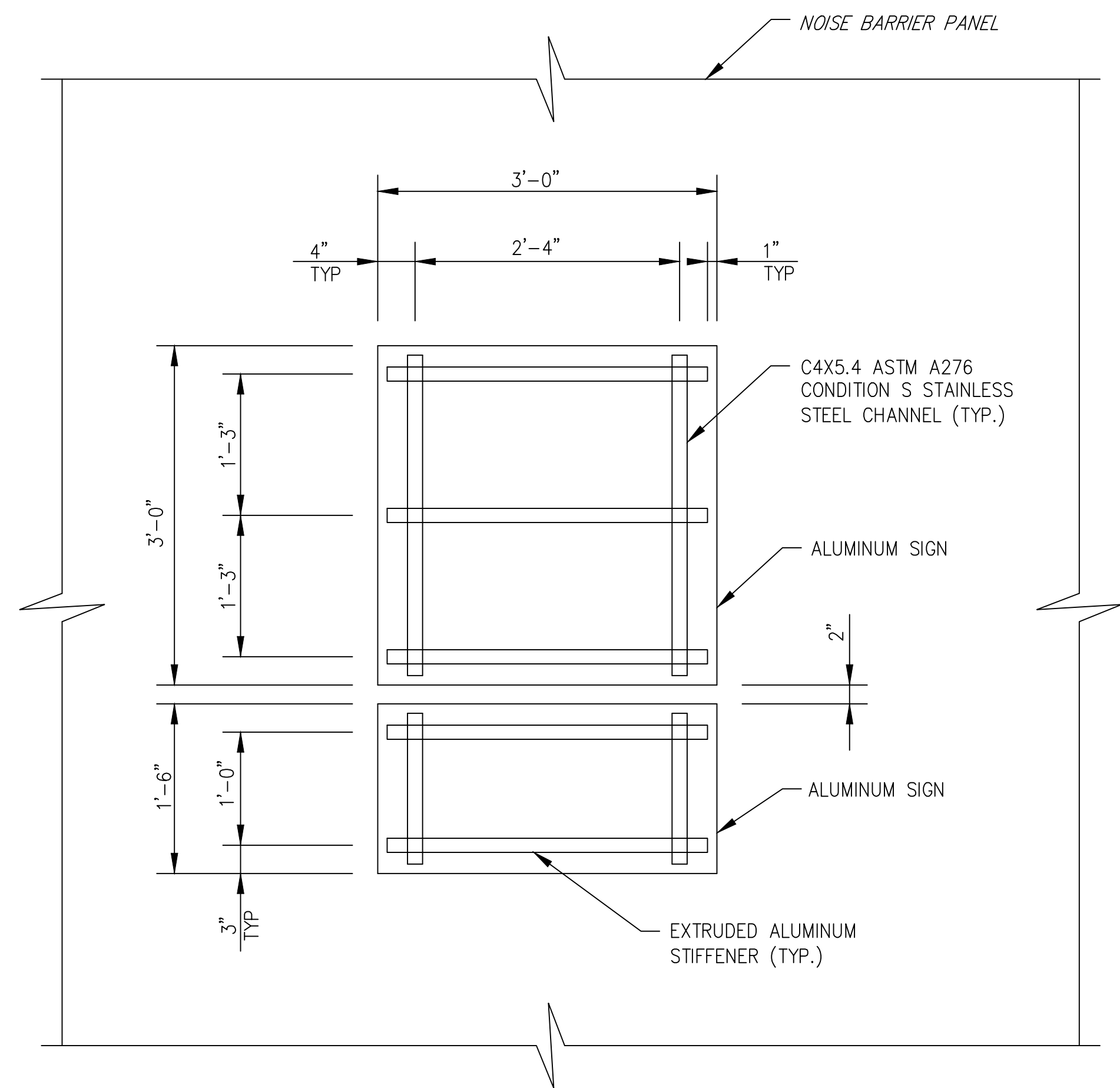
**PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING**

FILE NAME: PTS-980-23.dwg
DRAWING TYPE: 5A

SHEET 23 OF 41

DATE: APRIL 2024

PTS-980

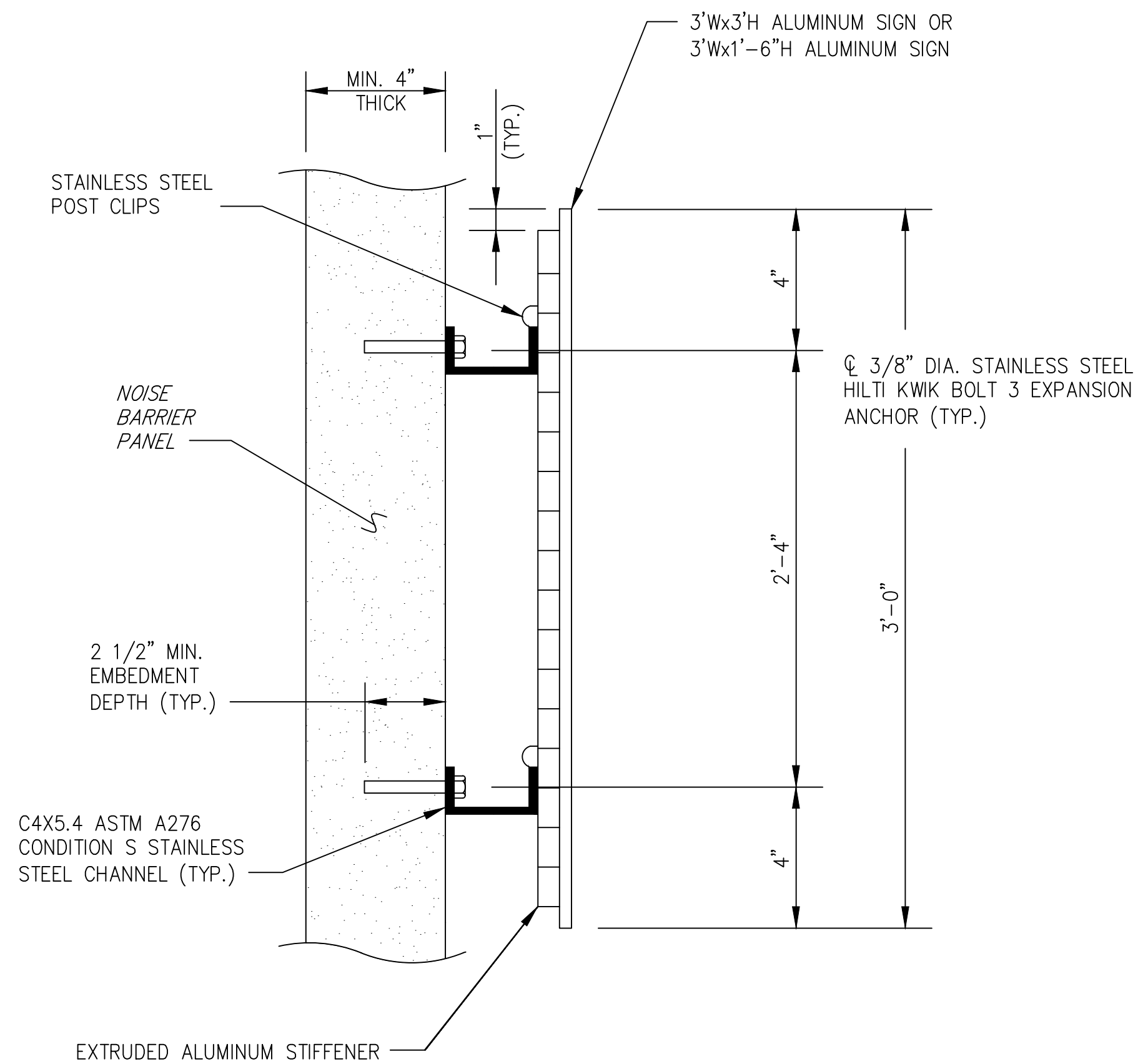


NOISE BARRIER PANEL MOUNTED SIGNS

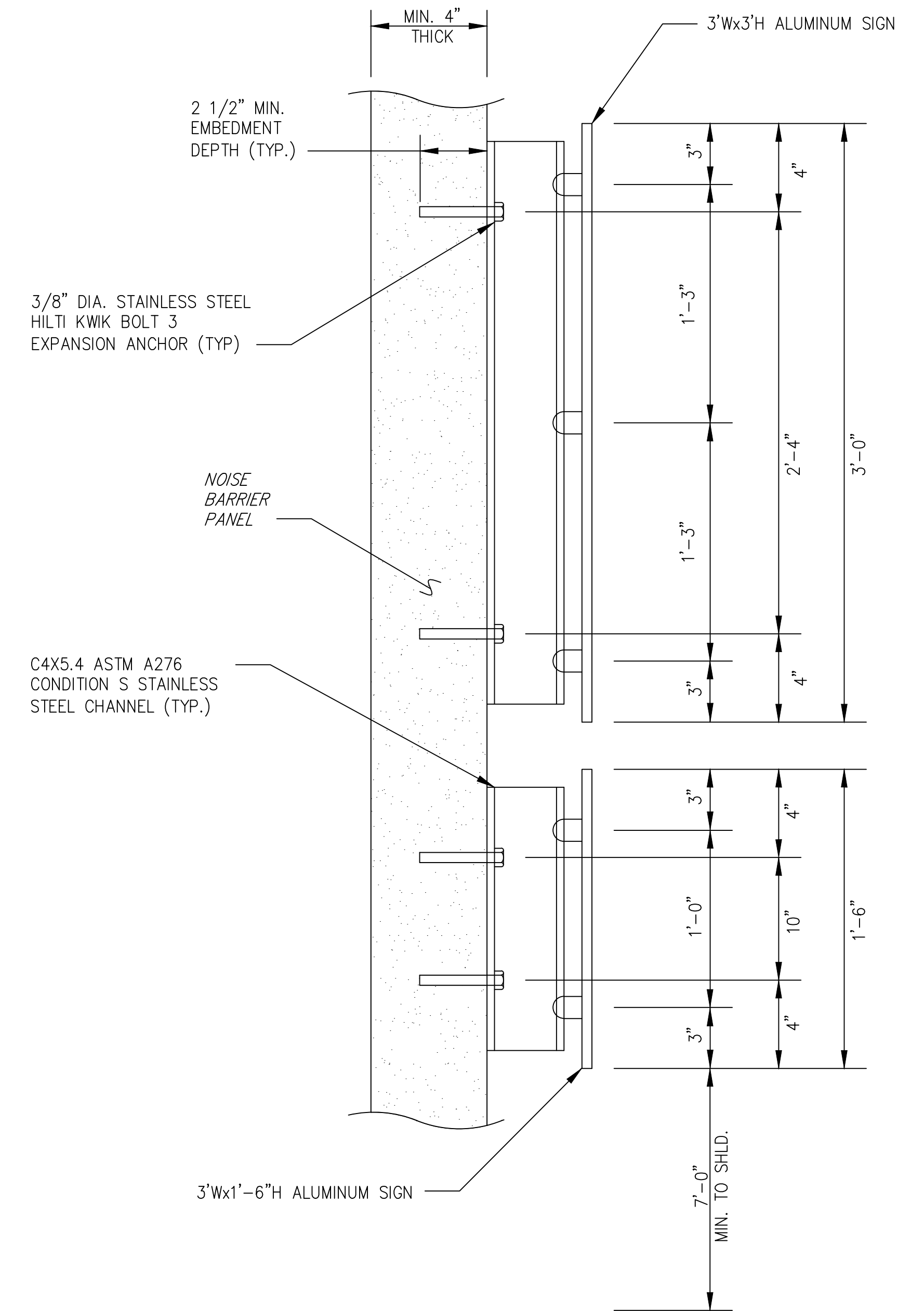


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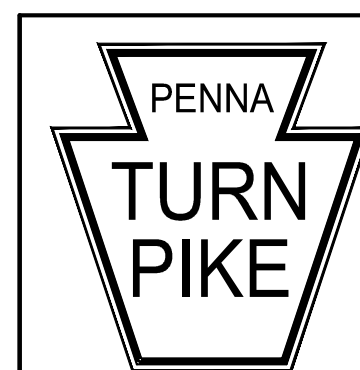
- DESIGN SPECIFICATIONS:
AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.
- EXISTING NOISE BARRIER PANELS ASSUMED TO BE A MINIMUM 4" THICK WITH A PRECAST CONCRETE STRENGTH EQUAL TO 5,000 PSI.
- REFER TO TC-8701S FOR ADDITIONAL SIGN ATTACHMENT DETAILS.



PLAN
NOT TO SCALE



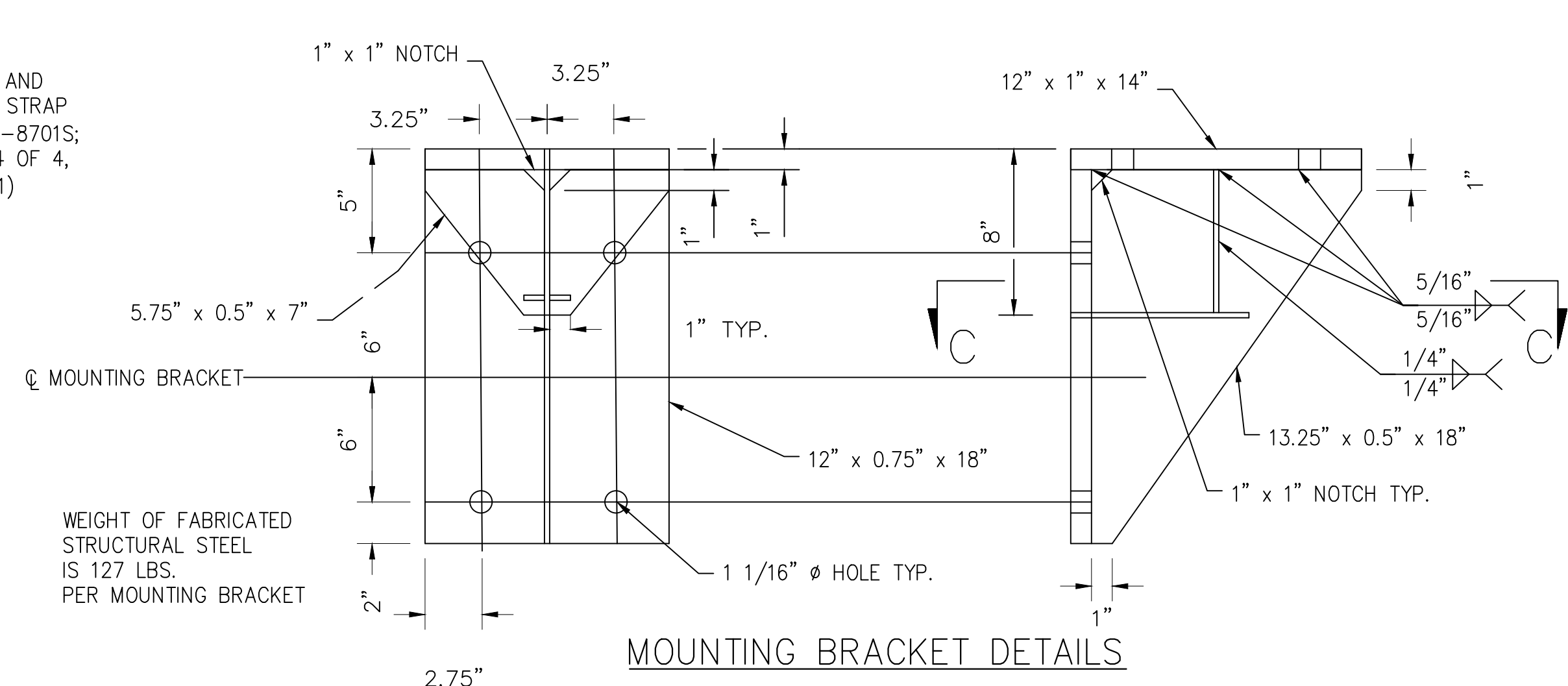
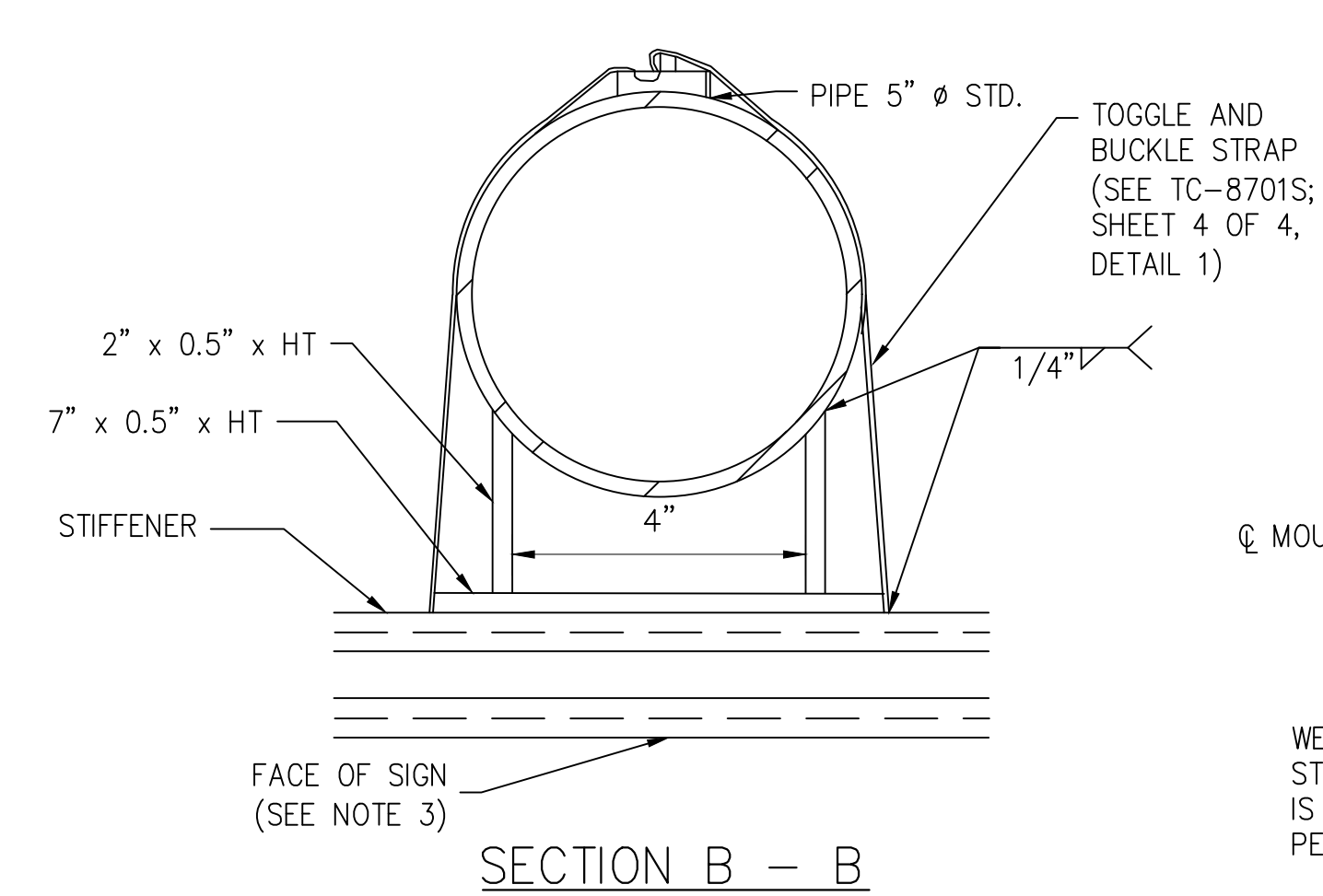
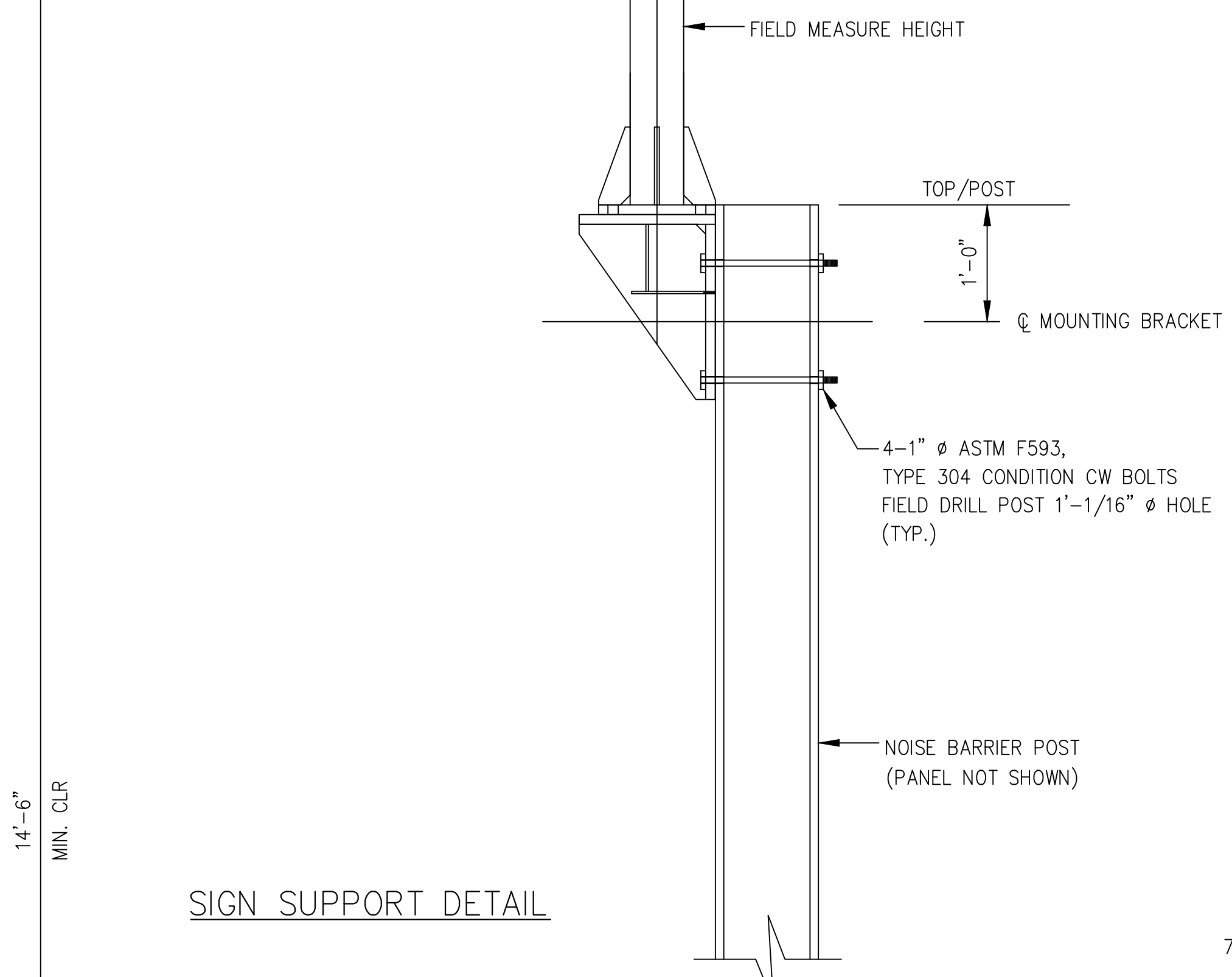
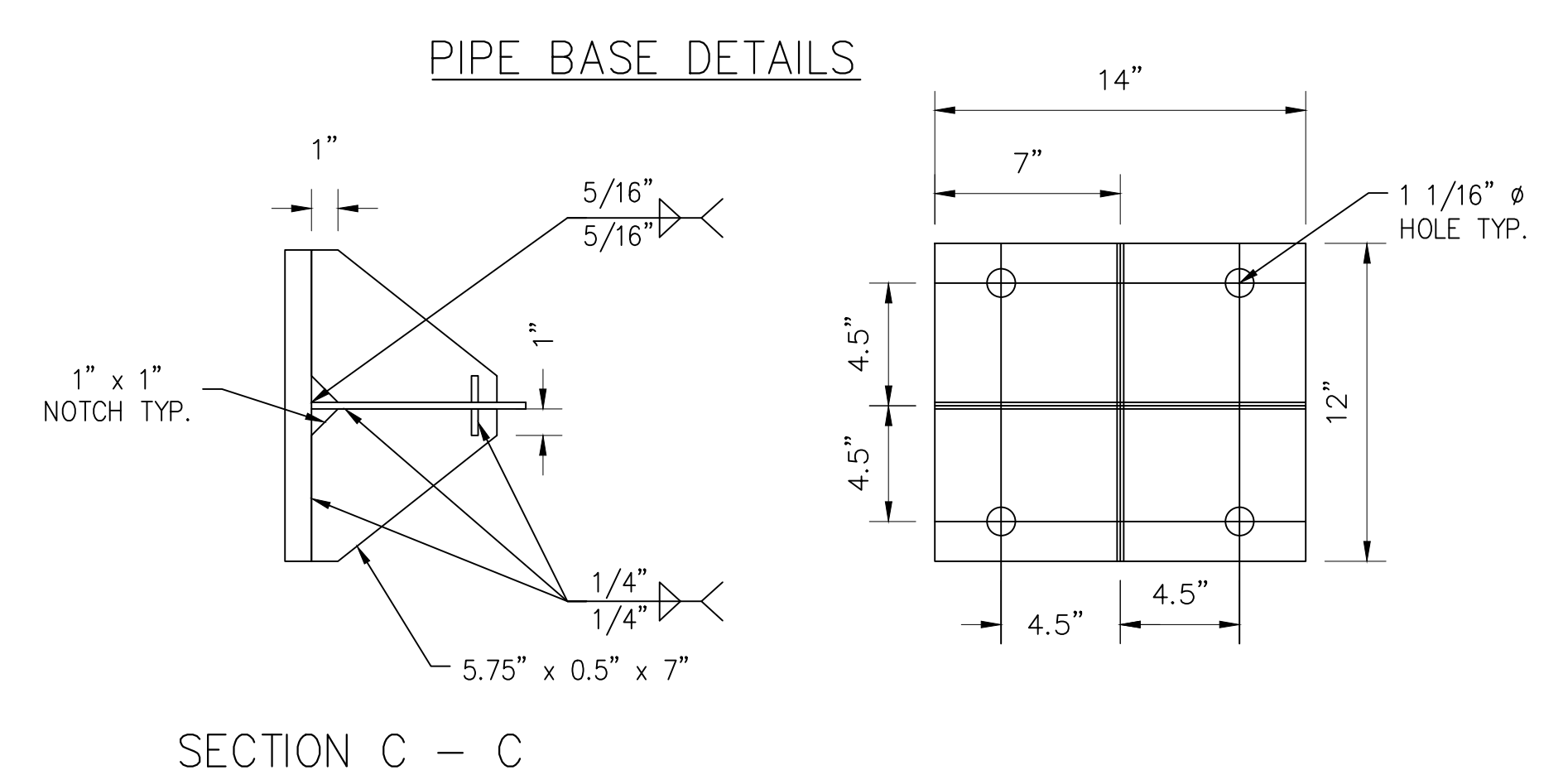
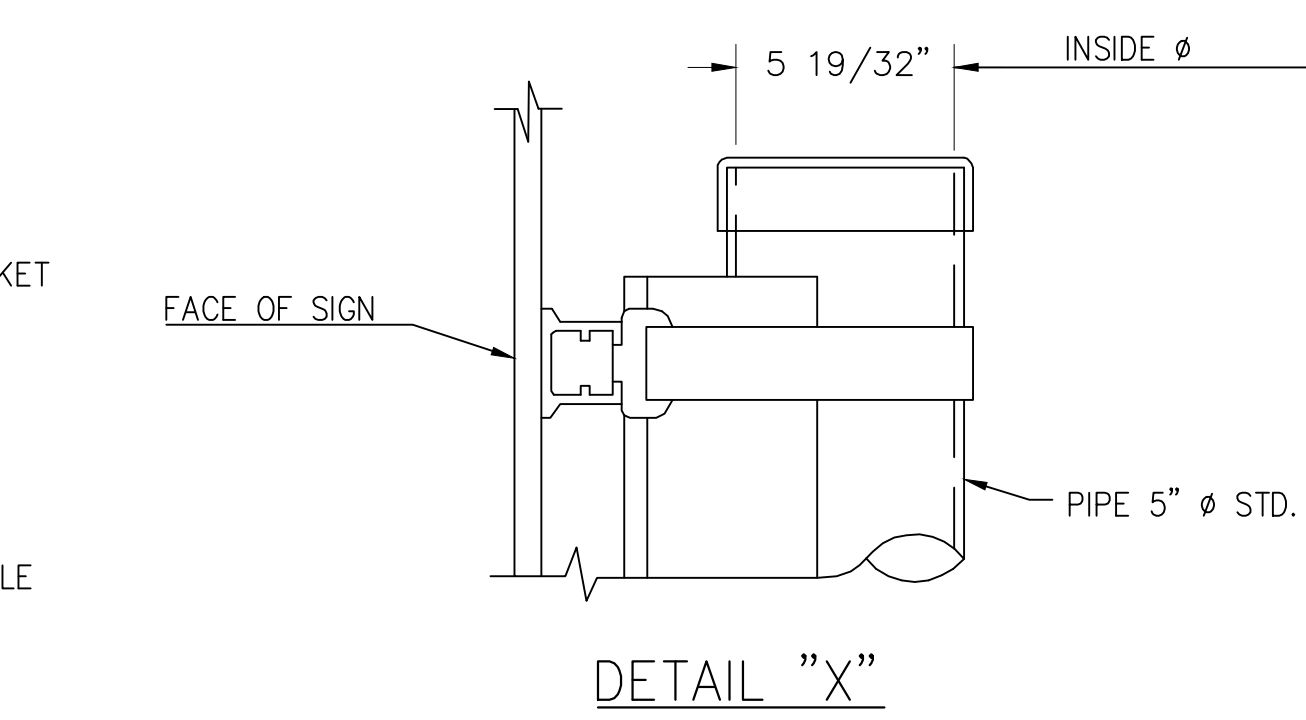
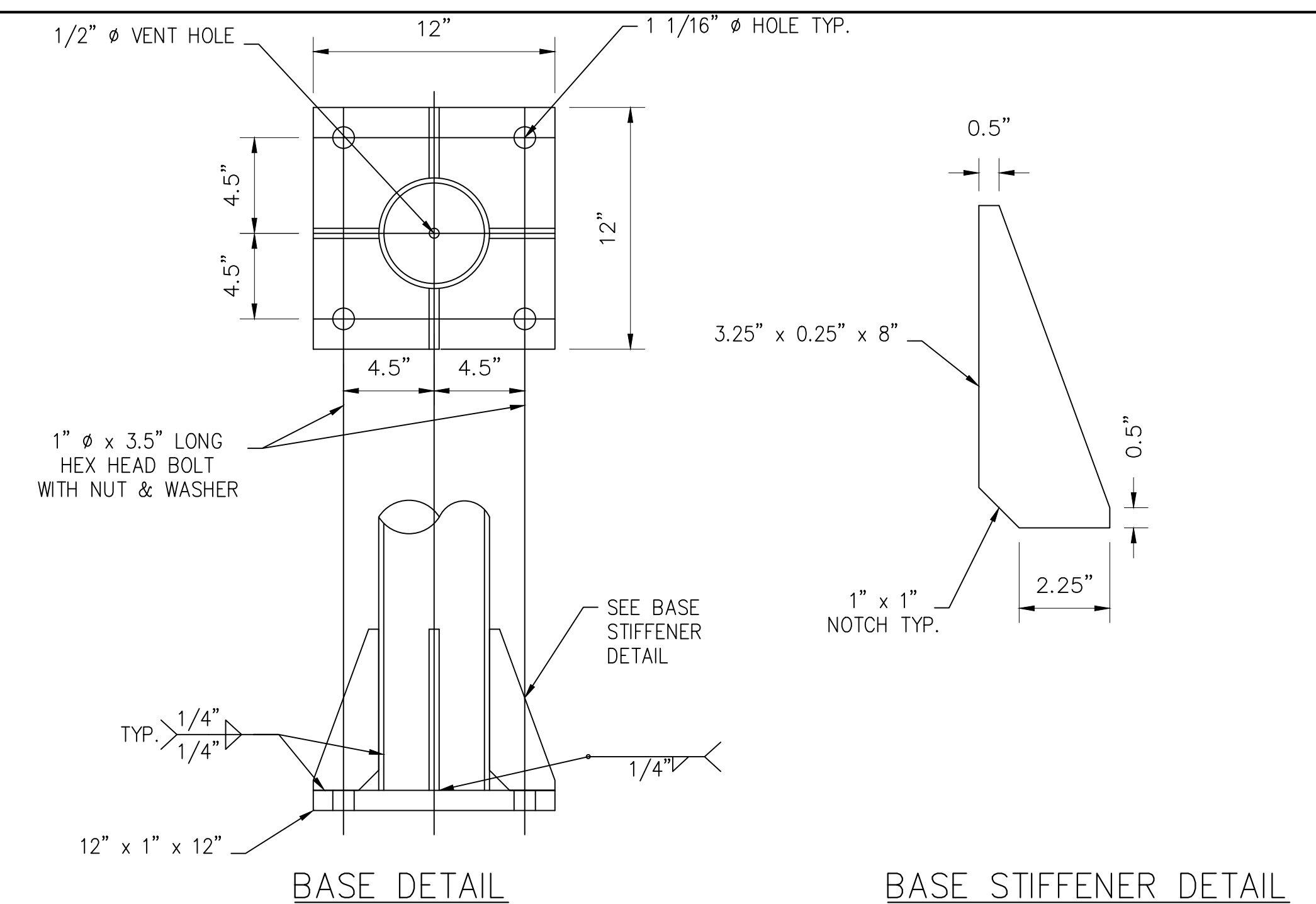
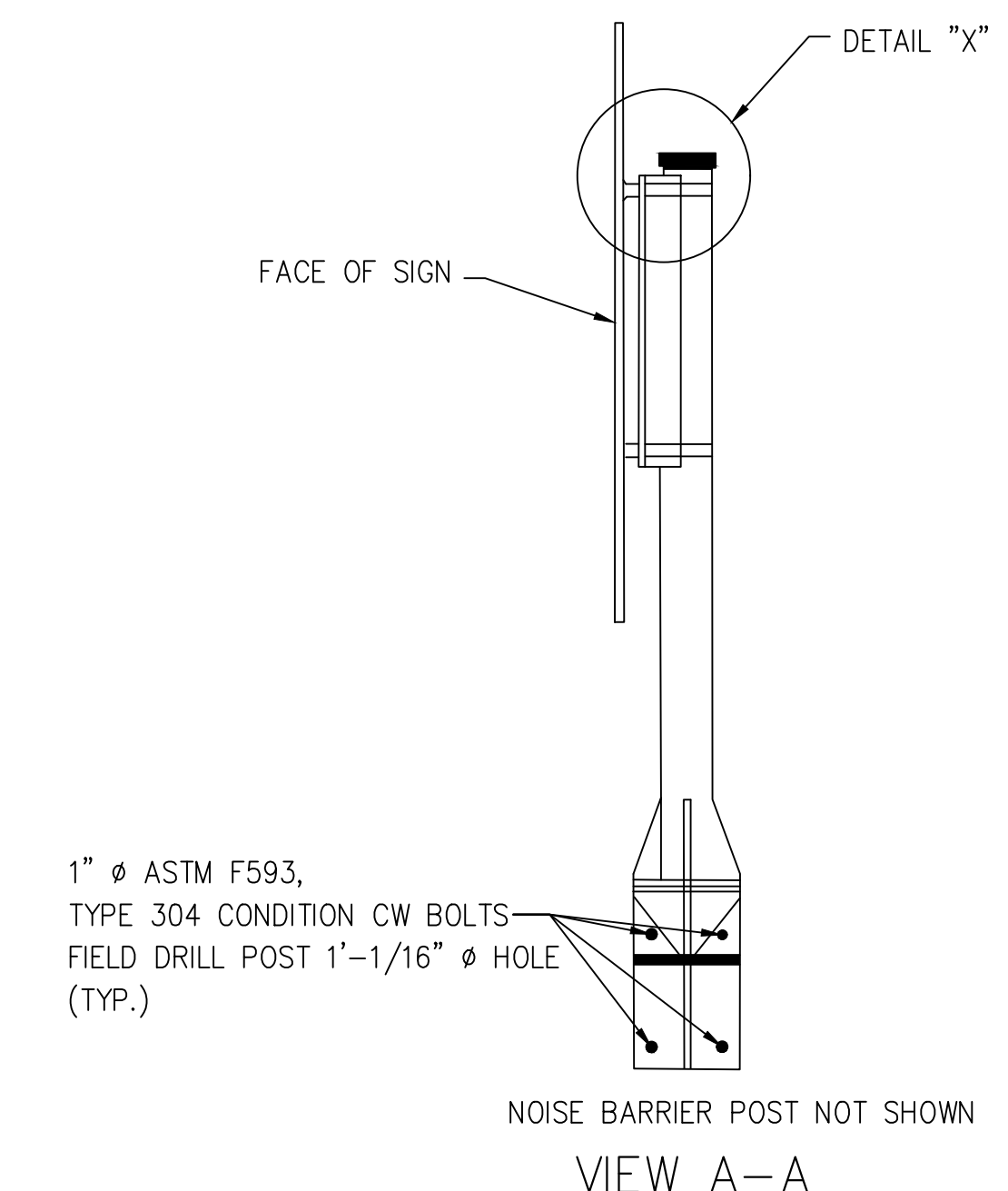
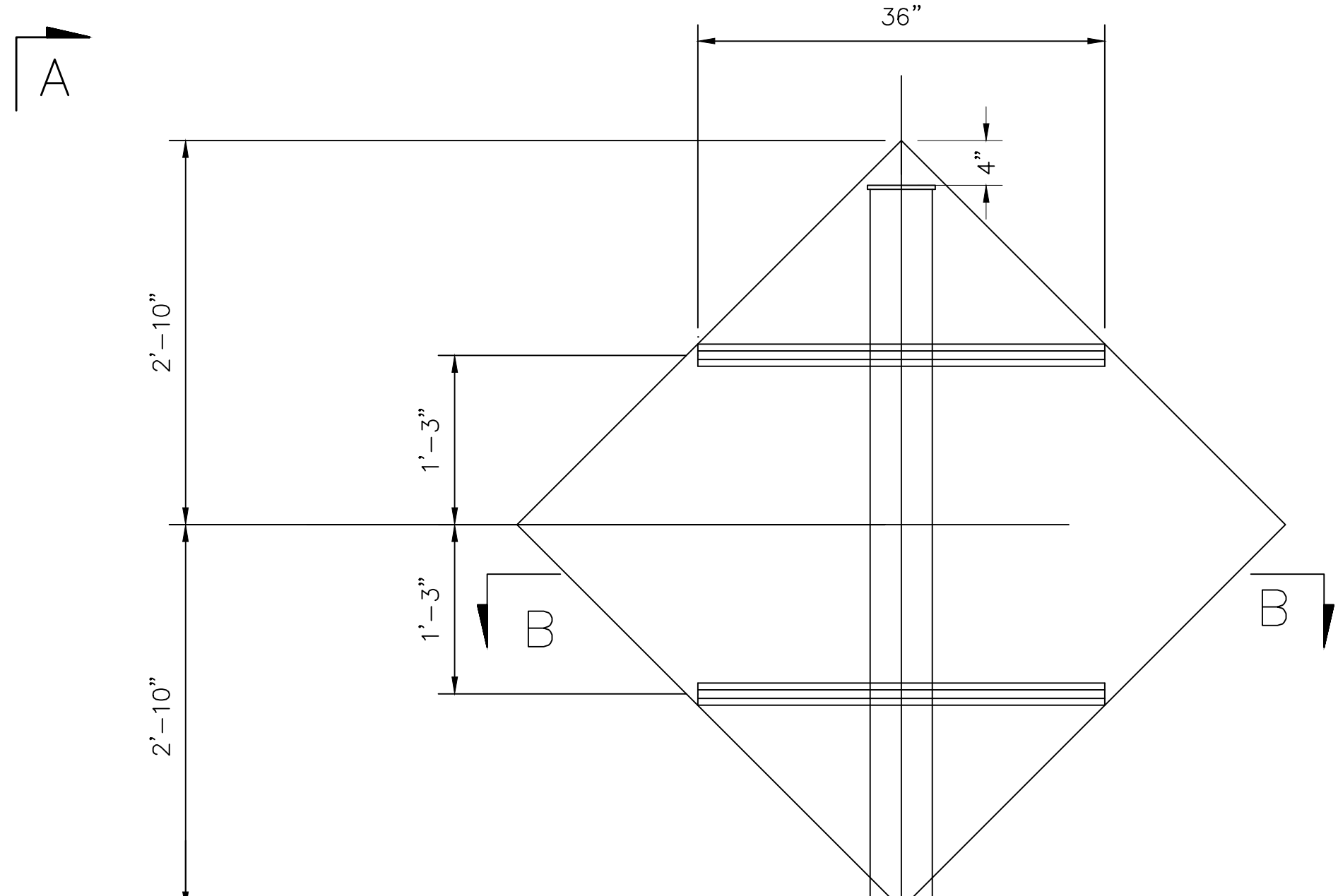
ELEVATION
NOT TO SCALE



RECOMMENDED: MAY 3, 2024
Chris V. [Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

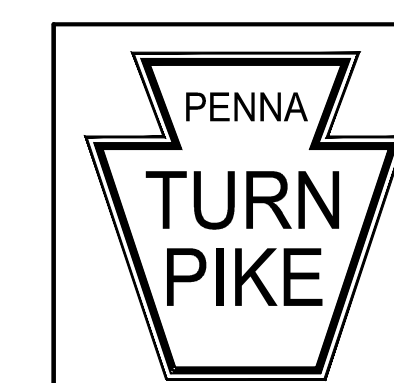
CONSTRUCTION
 MAINTENANCE AND PROTECTION OF TRAFFIC
 NOISE BARRIER / WALL MOUNTED SIGNS
 POST MOUNTED SIGNS, TYPE D-1

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING
 FILE NAME: PTS-980-24.dwg
 DRAWING TYPE: 5A
 SHEET 24 OF 41
 DATE: APRIL 2024
 PTS-980



- NOTES:**
- MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE PENNSYLVANIA TURNPIKE COMMISSION CONSTRUCTION SPECIFICATIONS AND PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, UNLESS OTHERWISE NOTED.
 - ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH PUBLICATION 408.
 - THE STIFFENERS AND STIFFENER HARDWARE SHALL CONFORM TO SECTION 1103.03(d) AND TO STANDARD DRAWINGS TC-8701S. THE RIVETS USED TO FASTEN THE FLAT SHEET ALUMINUM TO THE STIFFENER SHALL CONFORM TO SECTION 1103.01(g) AND SHALL BE SPACED AS INDICATED IN SECTION 1103.03(e).
 - STEEL PIPE SUPPORTS TO BE ASTM A 53, UNLESS OTHERWISE NOTED. ALL OTHER STRUCTURE STEEL TO BE AASHTO M 270 (ASTM A 709) GRADE 250, UNLESS OTHERWISE NOTED. ALL BOLTS TO BE AASHTO M 164, TYPE 1, UNLESS OTHERWISE NOTED.
 - DESIGN SPECIFICATION: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.

ROADWAY

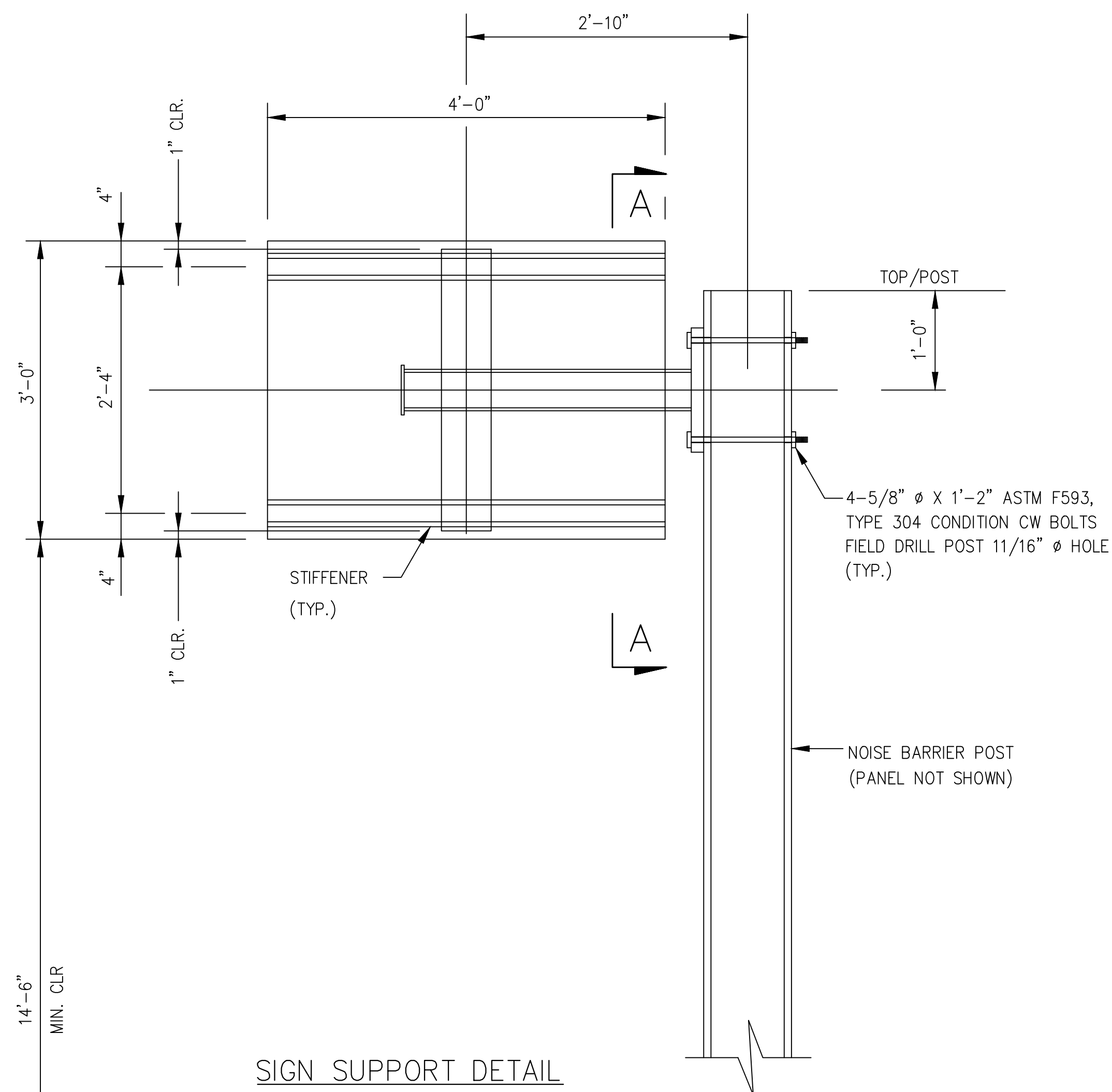


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

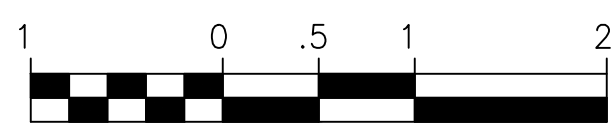
CONSTRUCTION
MAINTENANCE AND PROTECTION OF TRAFFIC
NOISE BARRIER / WALL MOUNTED SIGNS
POST MOUNTED SIGNS, TYPE D-2

PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

FILE NAME: PTS-980-25.dwg	SHEET 25 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



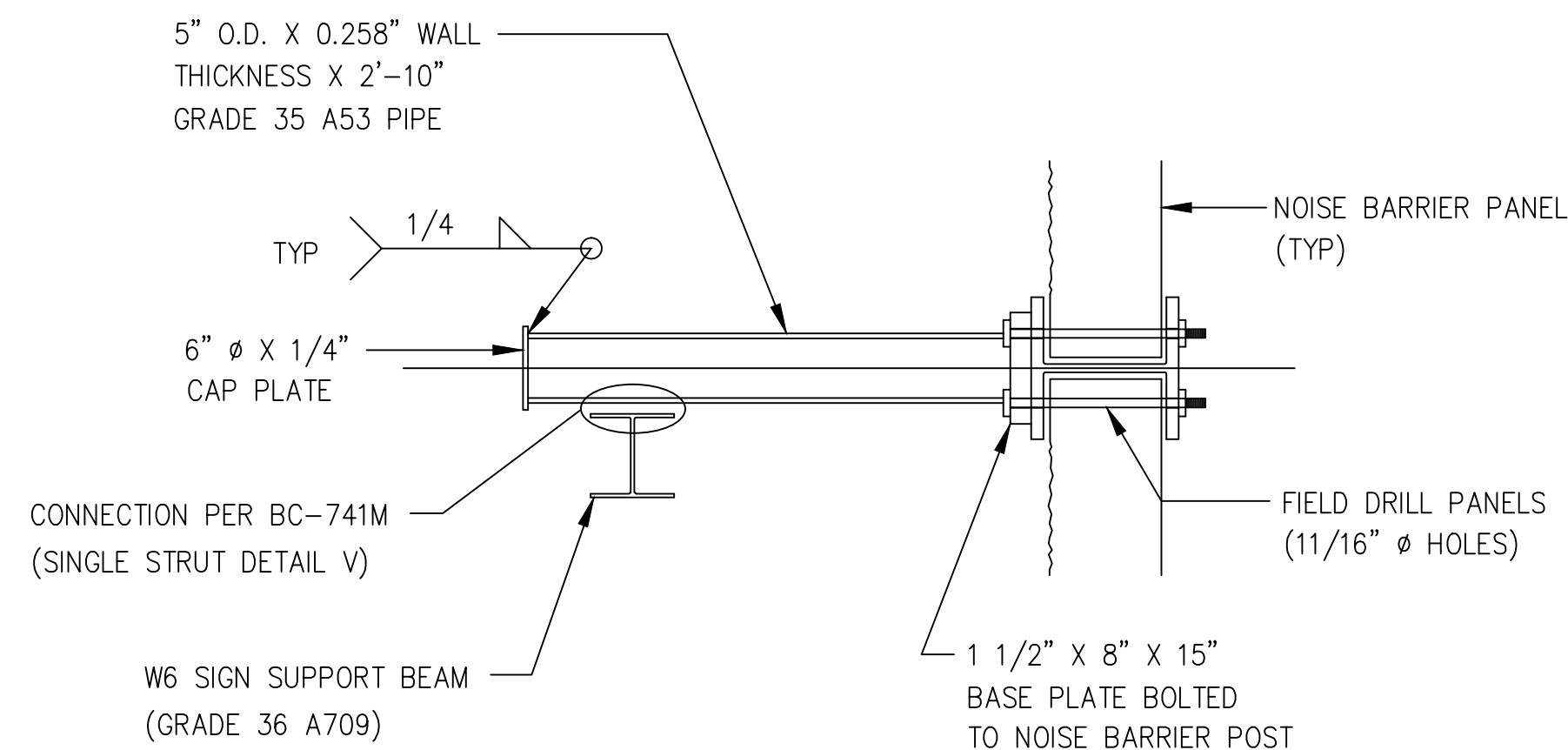
SIGN SUPPORT DETAIL



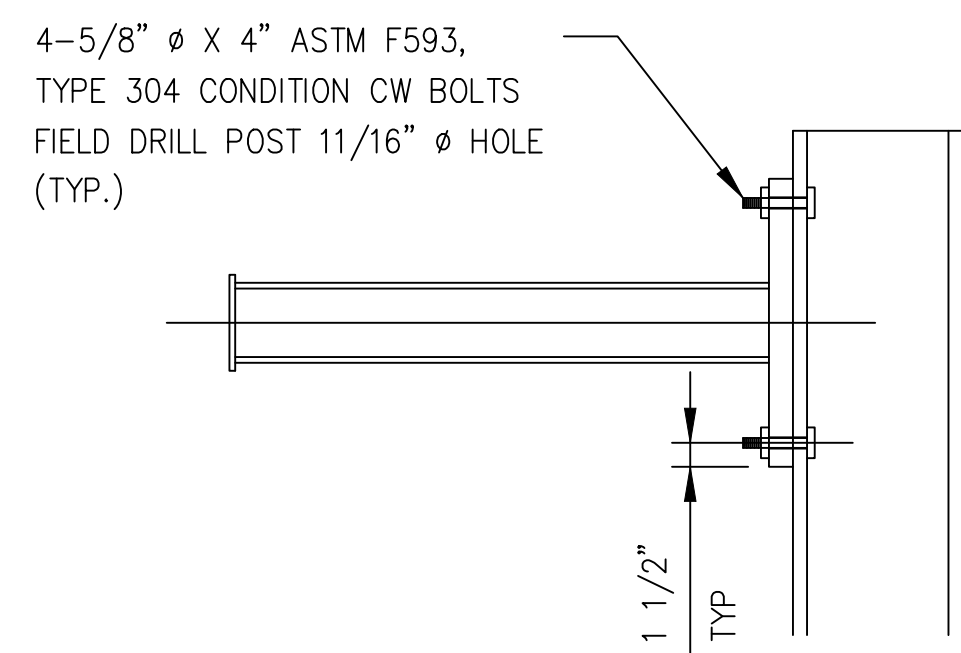
NOTES:

- DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.
- PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270, GRADE 36 (ASTM A709, GRADE 36) UNLESS NOTES OTHERWISE.
- PROVIDE BOLT HOLES 1/16" LARGER THEN BOLT DIAMETER.
- SEE BC-741M FOR SIGN SUPPORT BEAM SIZE.
- ALL BOLTS TO BE ASTM F593, GROUP 1, CONDITION CW STAINLESS STEEL BOLTS.

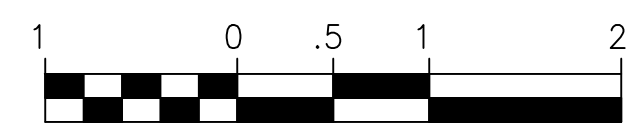
EDGE/ROAD



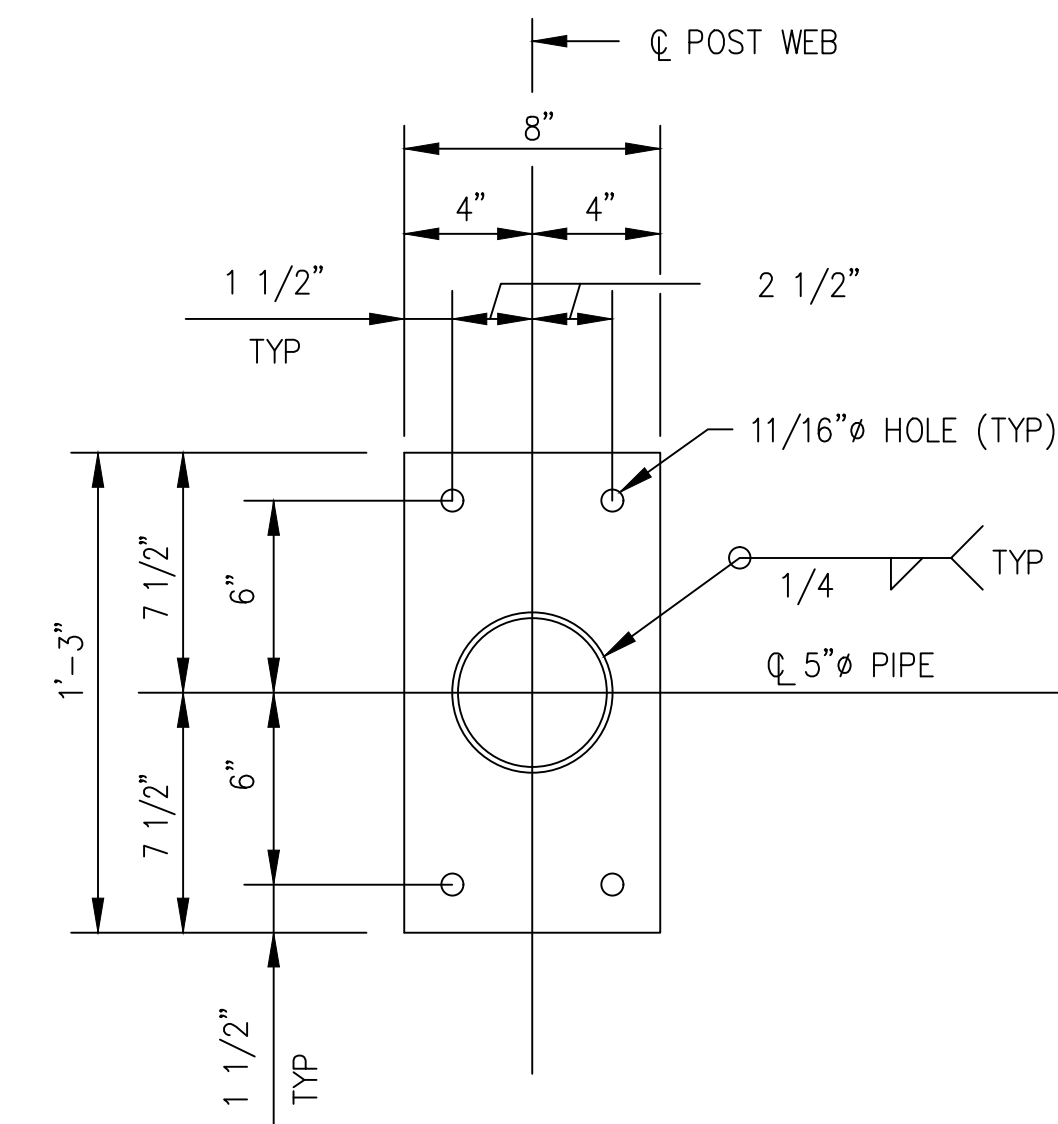
PLAN



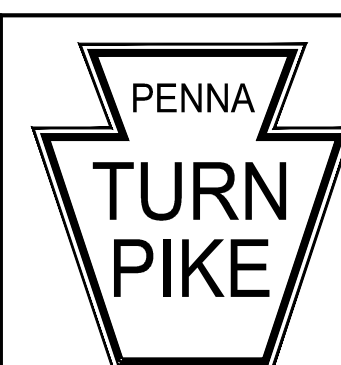
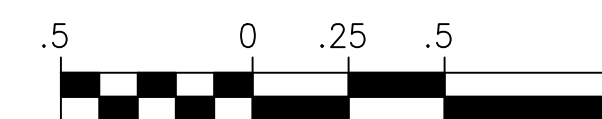
ALTERNATE BOLT ATTACHMENT



(CONTRACTOR TO VERIFY PANEL CLEARANCES)



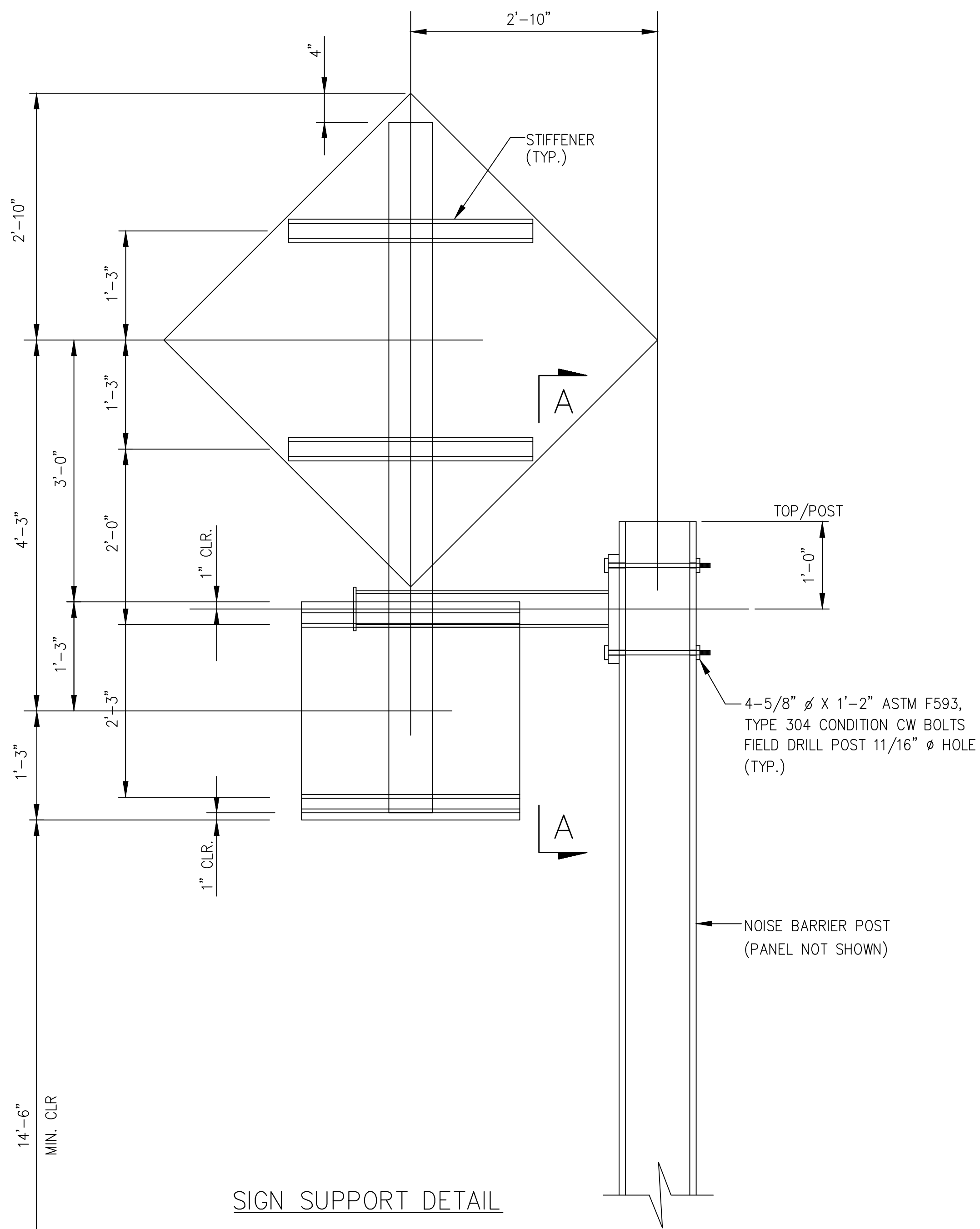
VIEW A-A



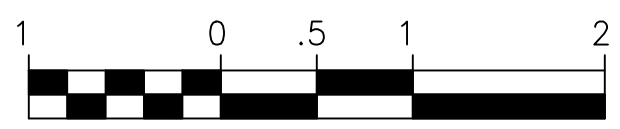
RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION
 MAINTENANCE AND PROTECTION OF TRAFFIC
 NOISE BARRIER / WALL MOUNTED SIGNS
 POST MOUNTED SIGNS, TYPE D-3

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING
 FILE NAME: PTS-980-26.dwg
 DRAWING TYPE: 5A
 SHEET 26 OF 41
 DATE: APRIL 2024
 PTS-980



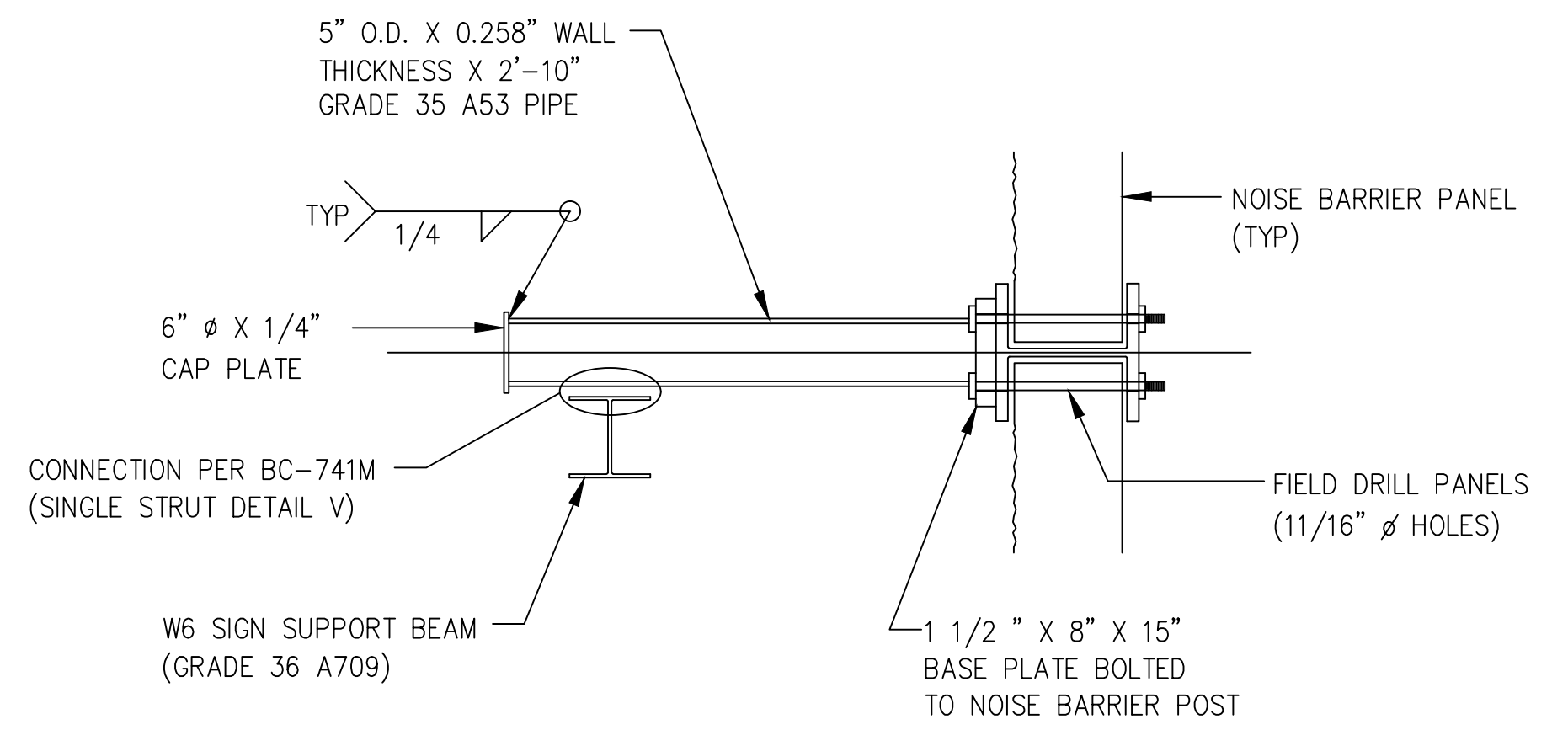
SIGN SUPPORT DETAIL



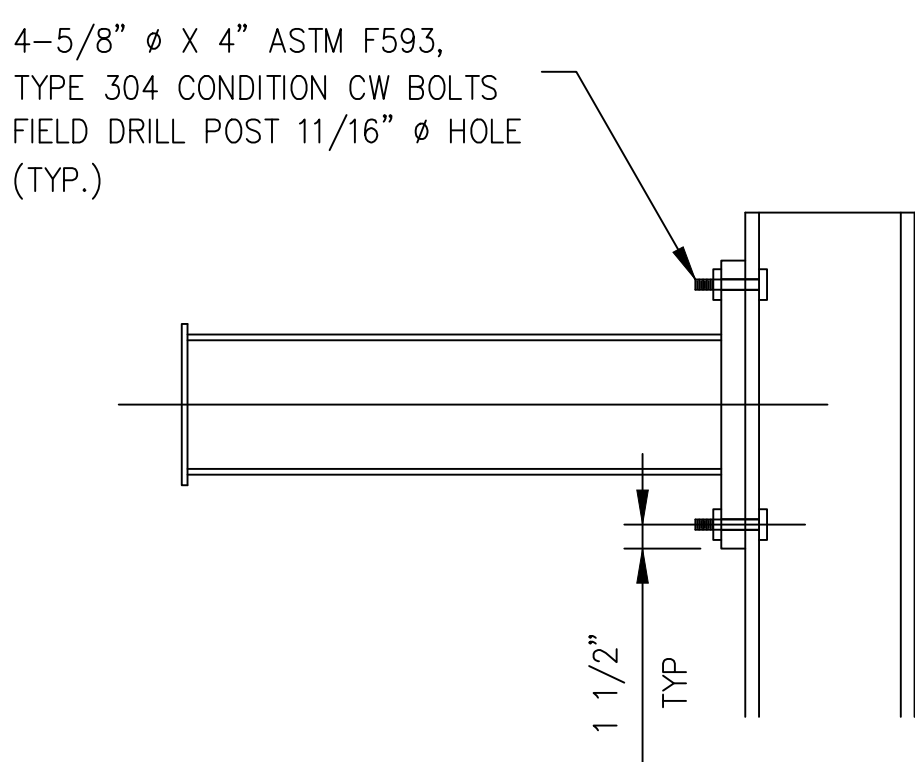
NOTES:

1. DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.
2. PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270, GRADE 36 (ASTM A709, GRADE 36) UNLESS NOTES OTHERWISE.
3. PROVIDE BOLT HOLES 1/16" LARGER THEN BOLT DIAMETER.
4. SEE BC-741M FOR SIGN SUPPORT BEAM SIZE.
5. ALL BOLTS TO BE ASTM F593, GROUP 1, CONDITION CW STAINLESS STEEL BOLTS.

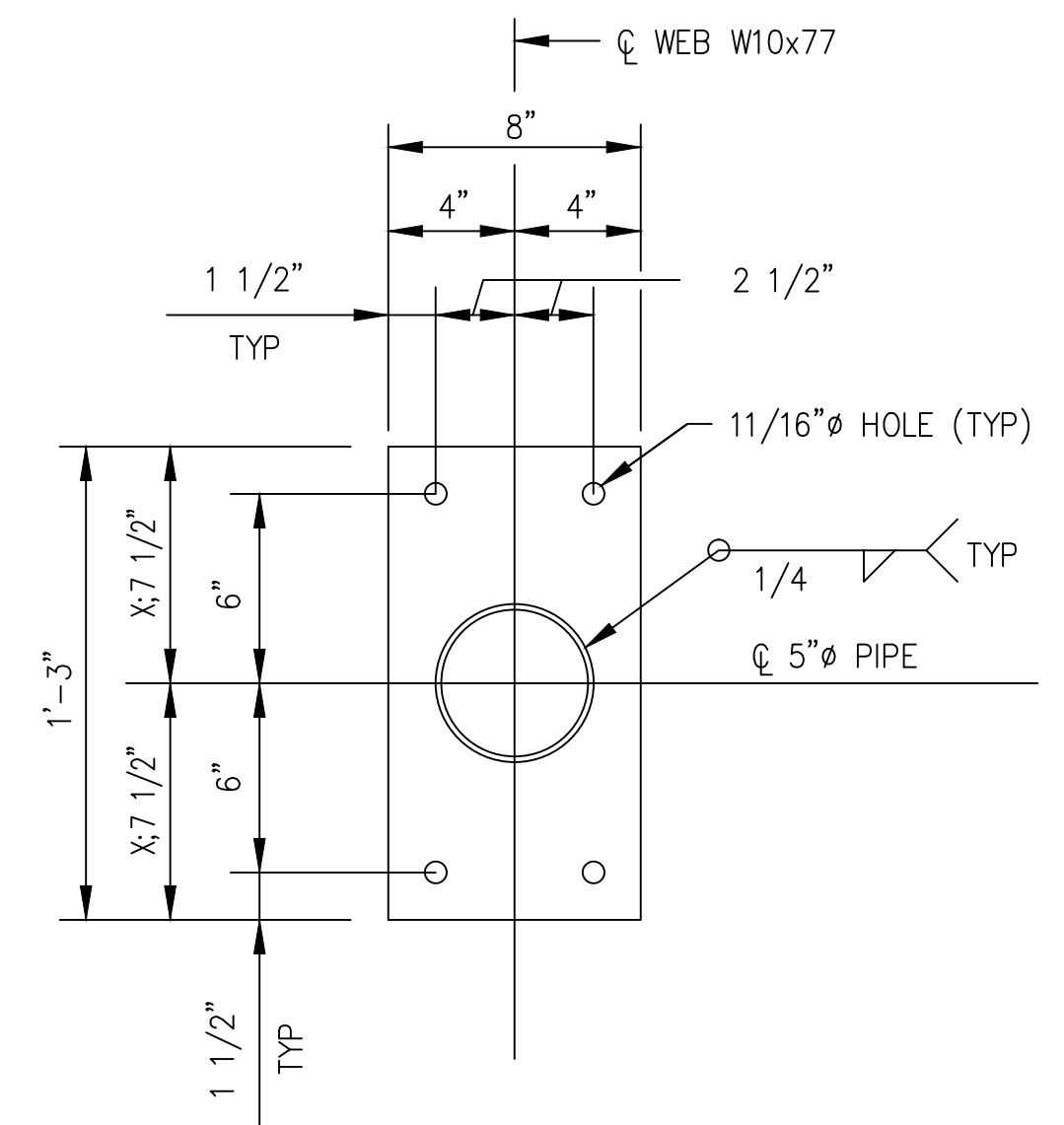
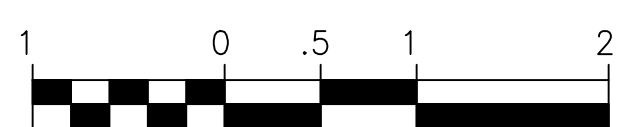
EDGE/ROAD



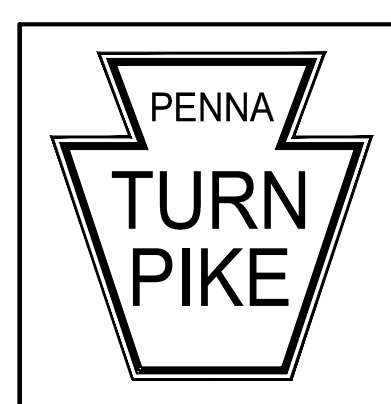
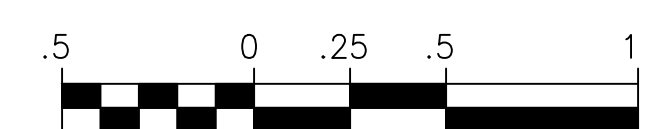
PLAN



ALTERNATE BOLT ATTACHMENT



VIEW A-A

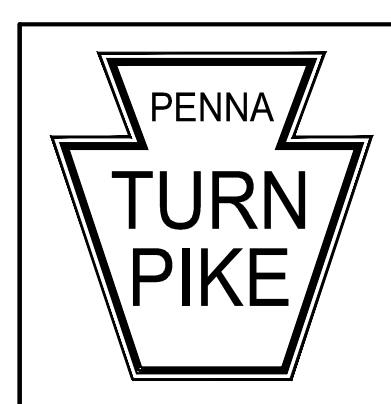
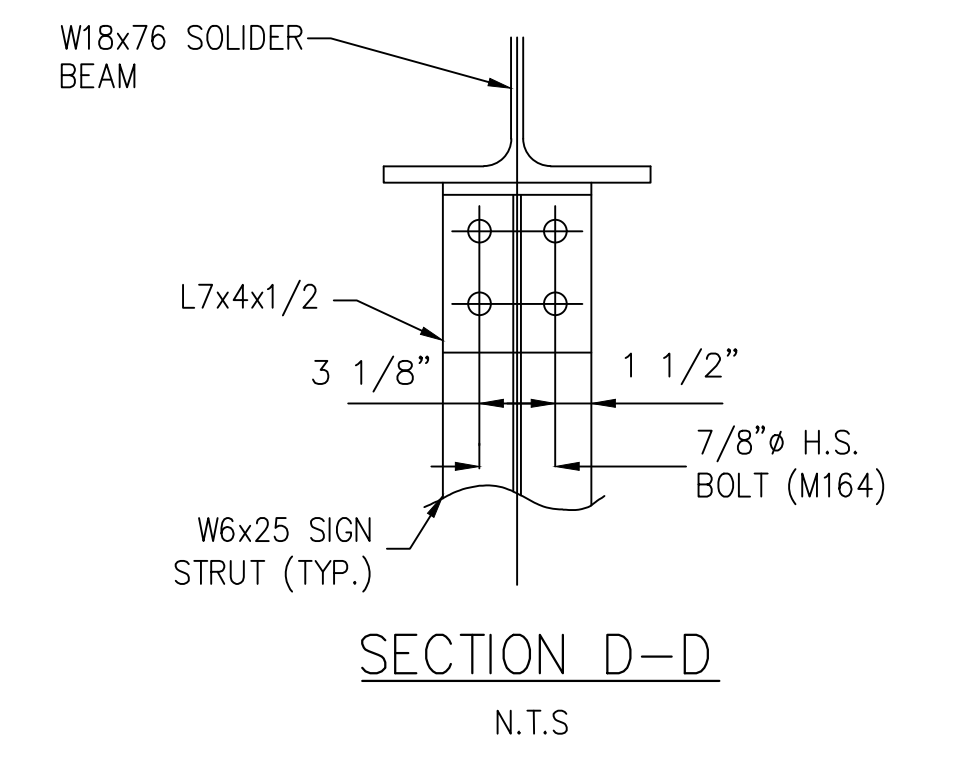
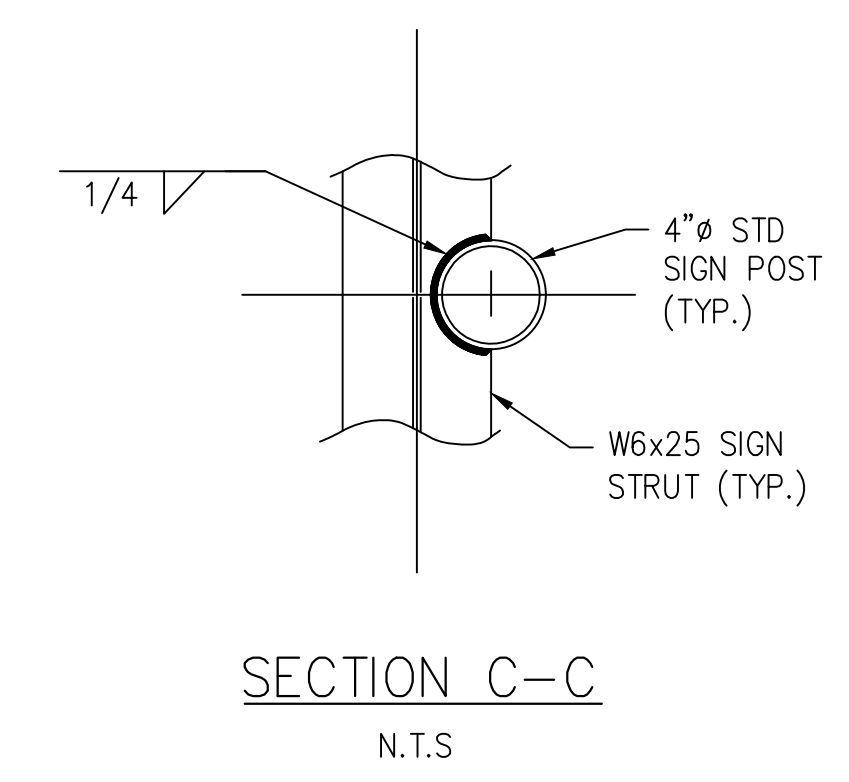
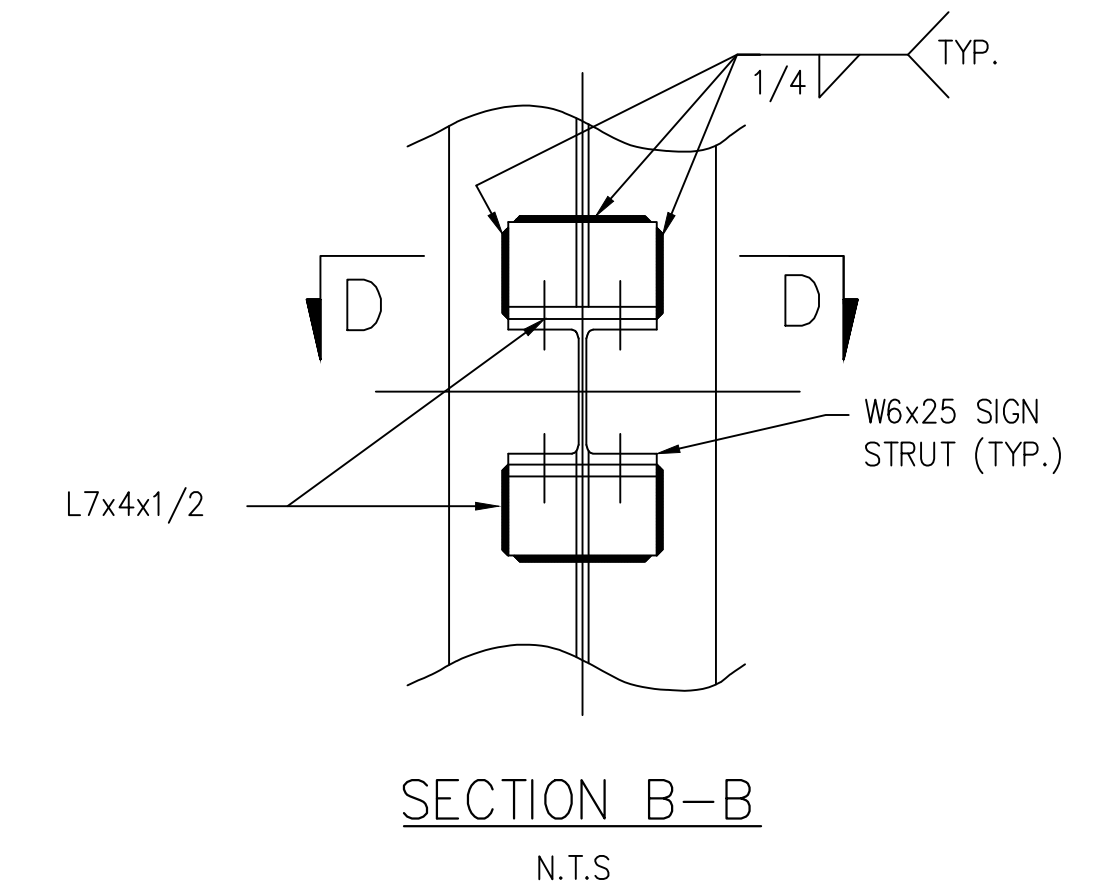
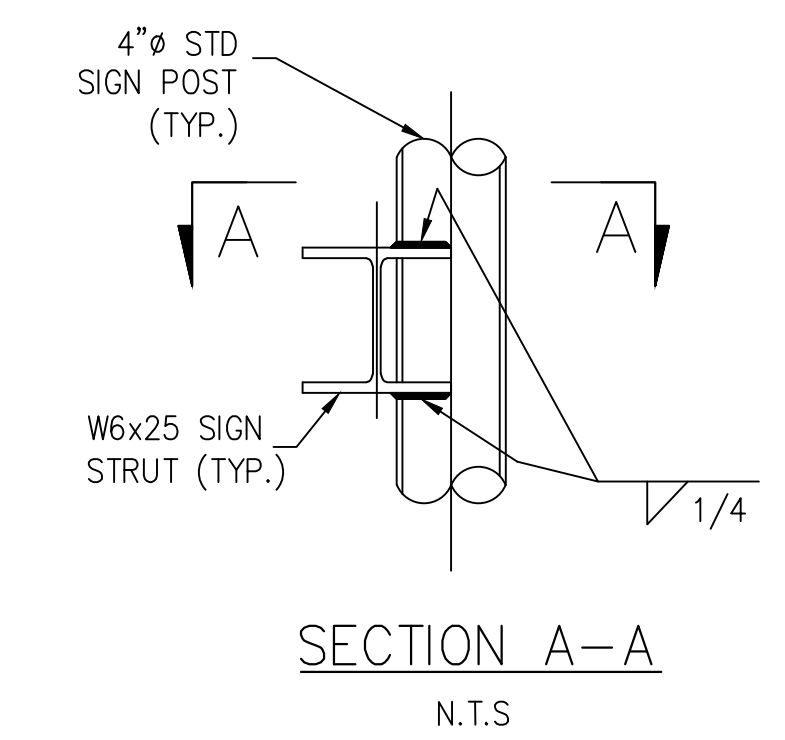
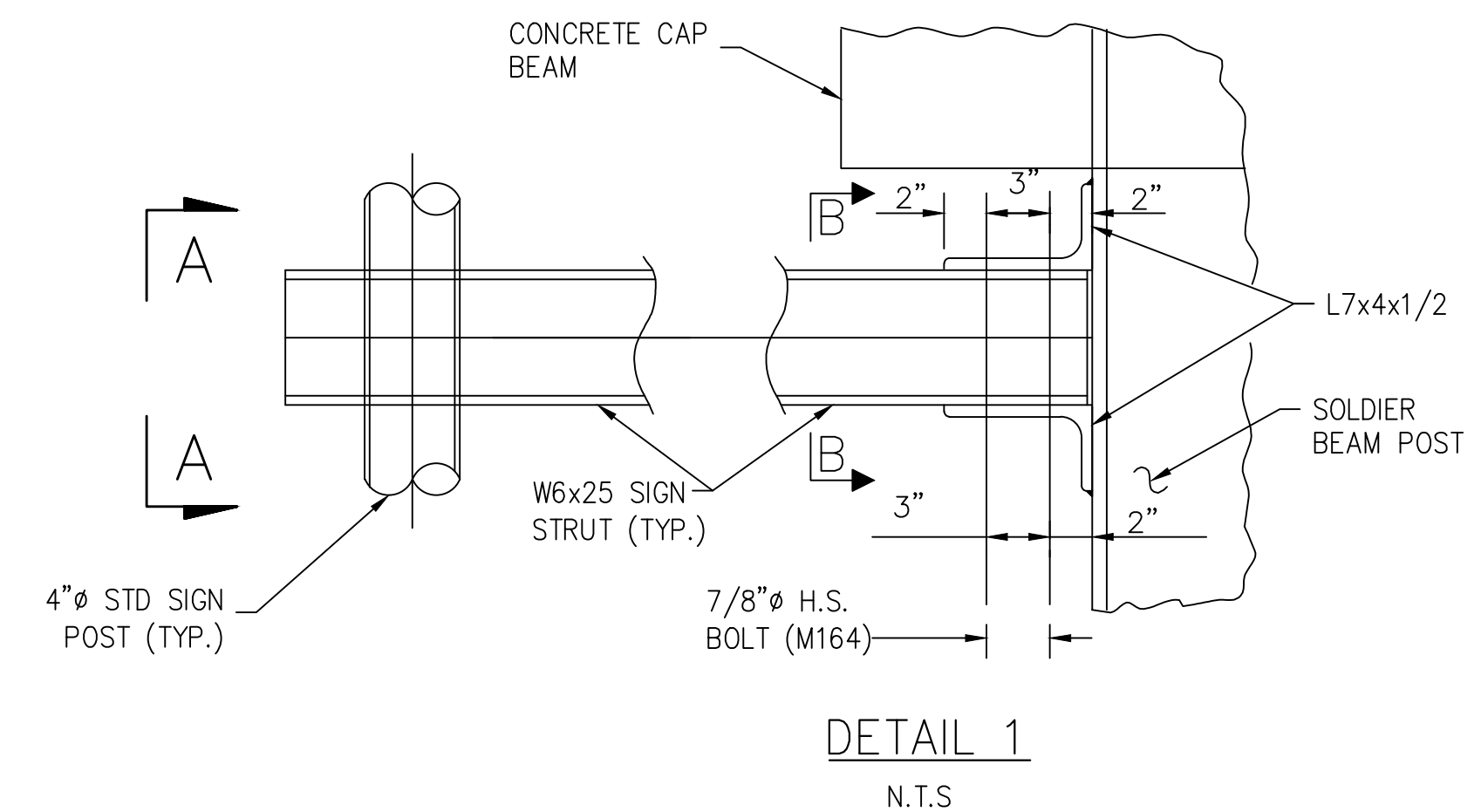
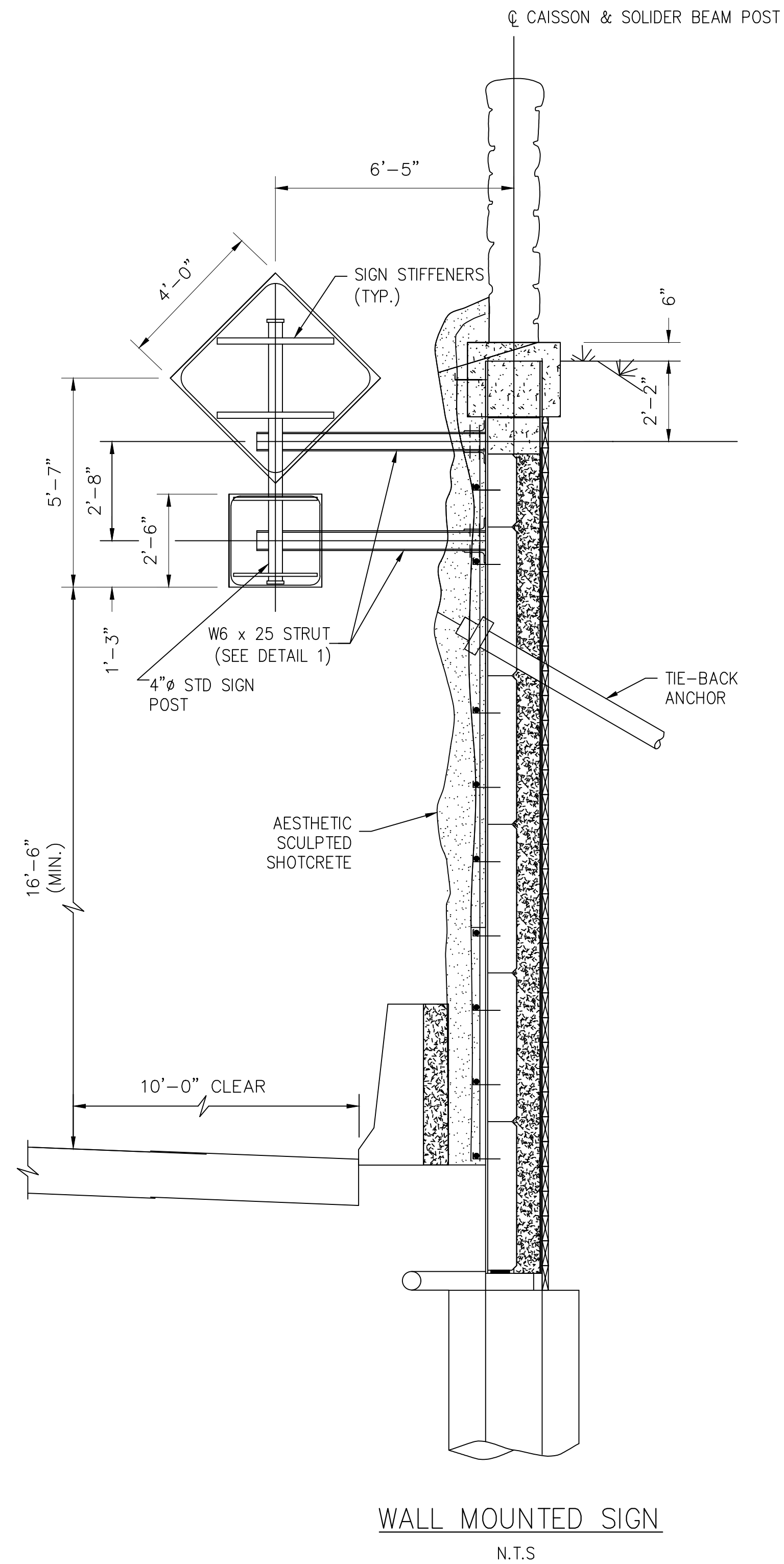


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION
MAINTENANCE AND PROTECTION OF TRAFFIC
NOISE BARRIER / WALL MOUNTED SIGNS
POST MOUNTED SIGNS, TYPE D-4

PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

FILE NAME: PTS-980-27.dwg	SHEET 27 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980

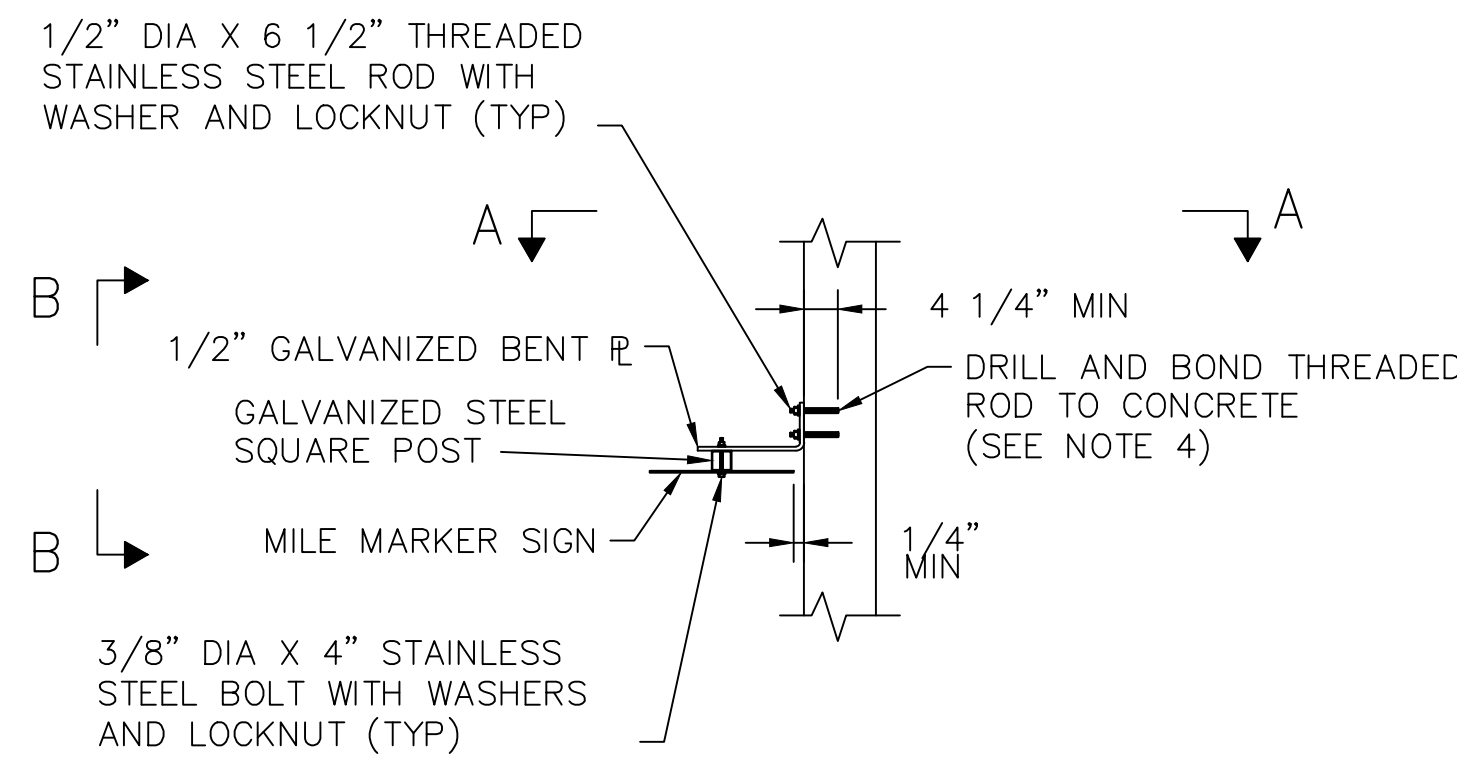


RECOMMENDED: MAY 3, 2024
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 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

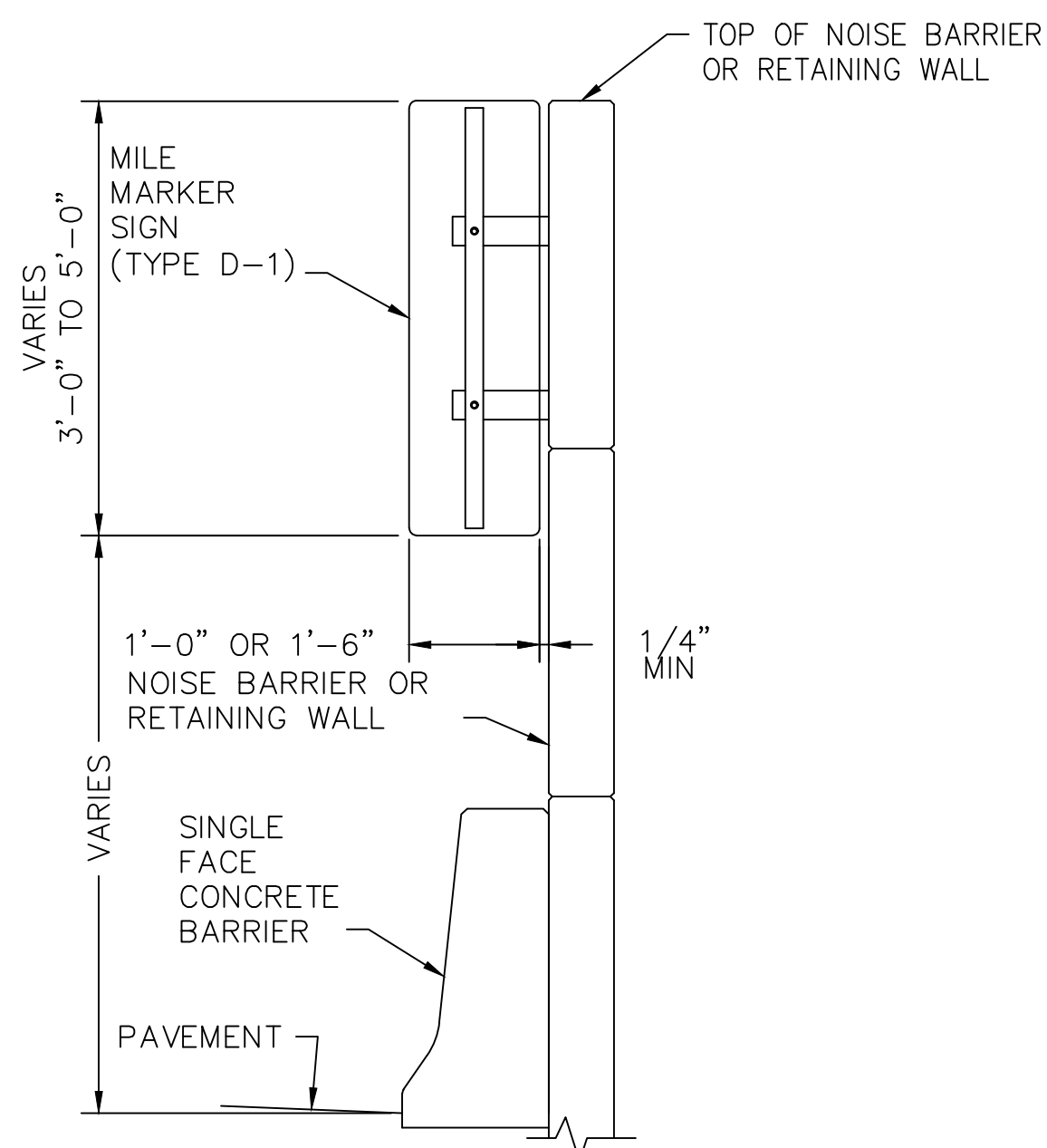
**CONSTRUCTION
 MAINTENANCE AND PROTECTION OF TRAFFIC
 NOISE BARRIER / WALL MOUNTED SIGNS
 POST MOUNTED SIGNS, TYPE D-5**

**PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING**

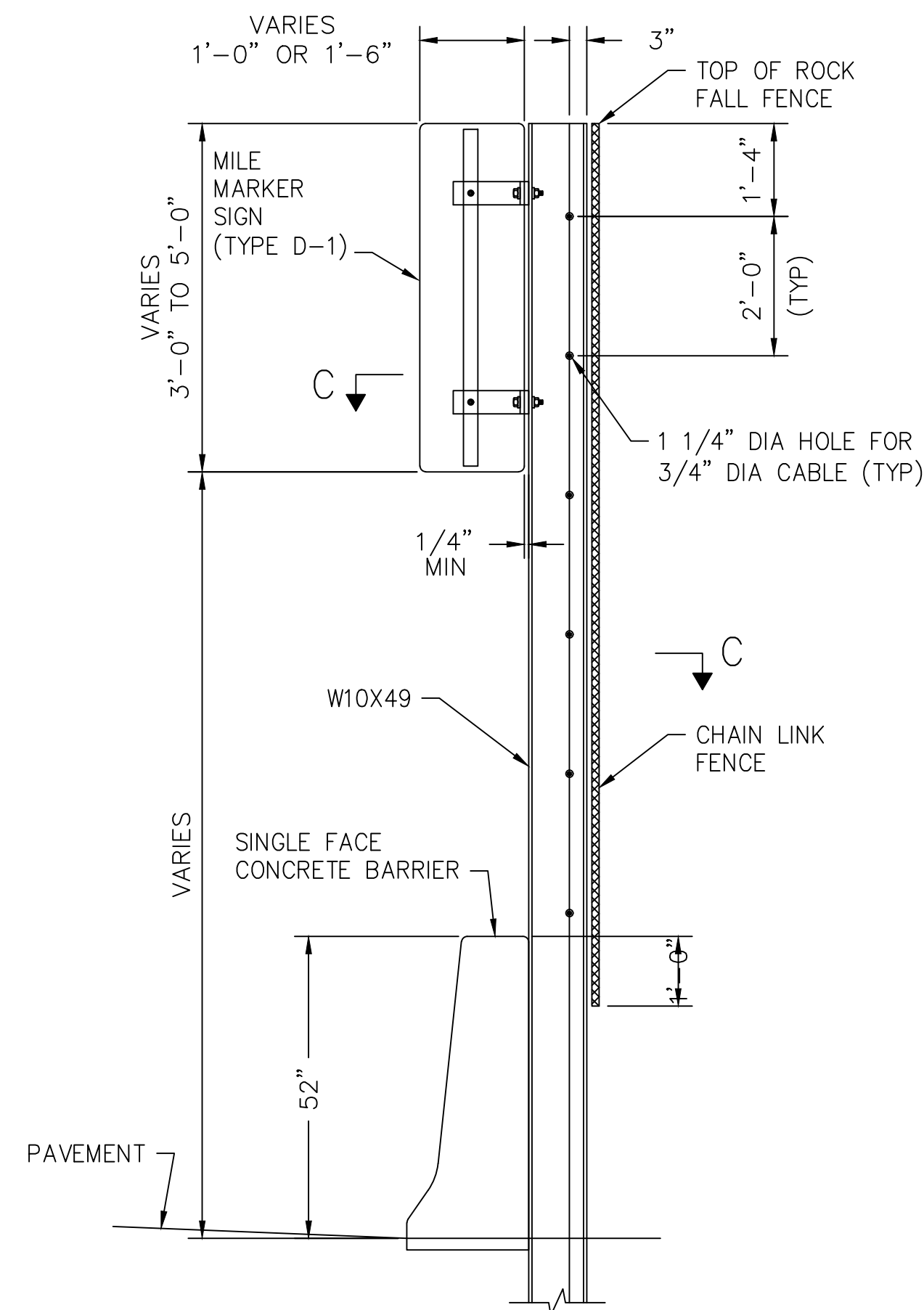
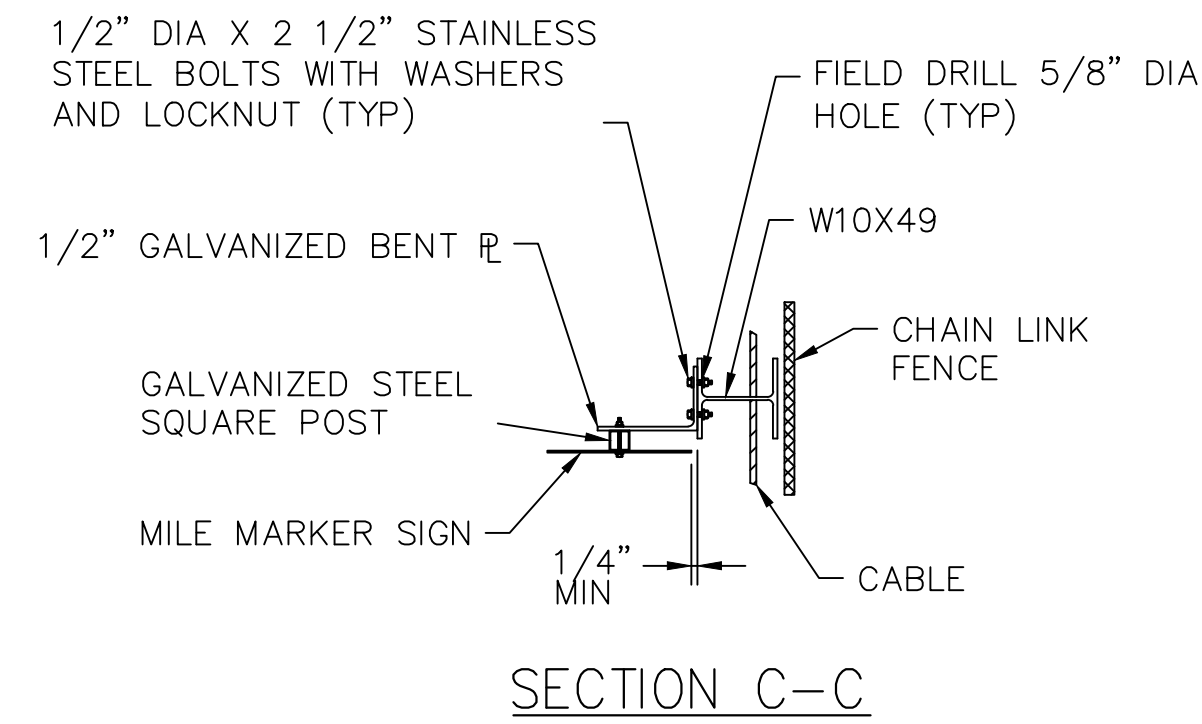
FILE NAME: PTS-980-28.dwg	SHEET 28 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



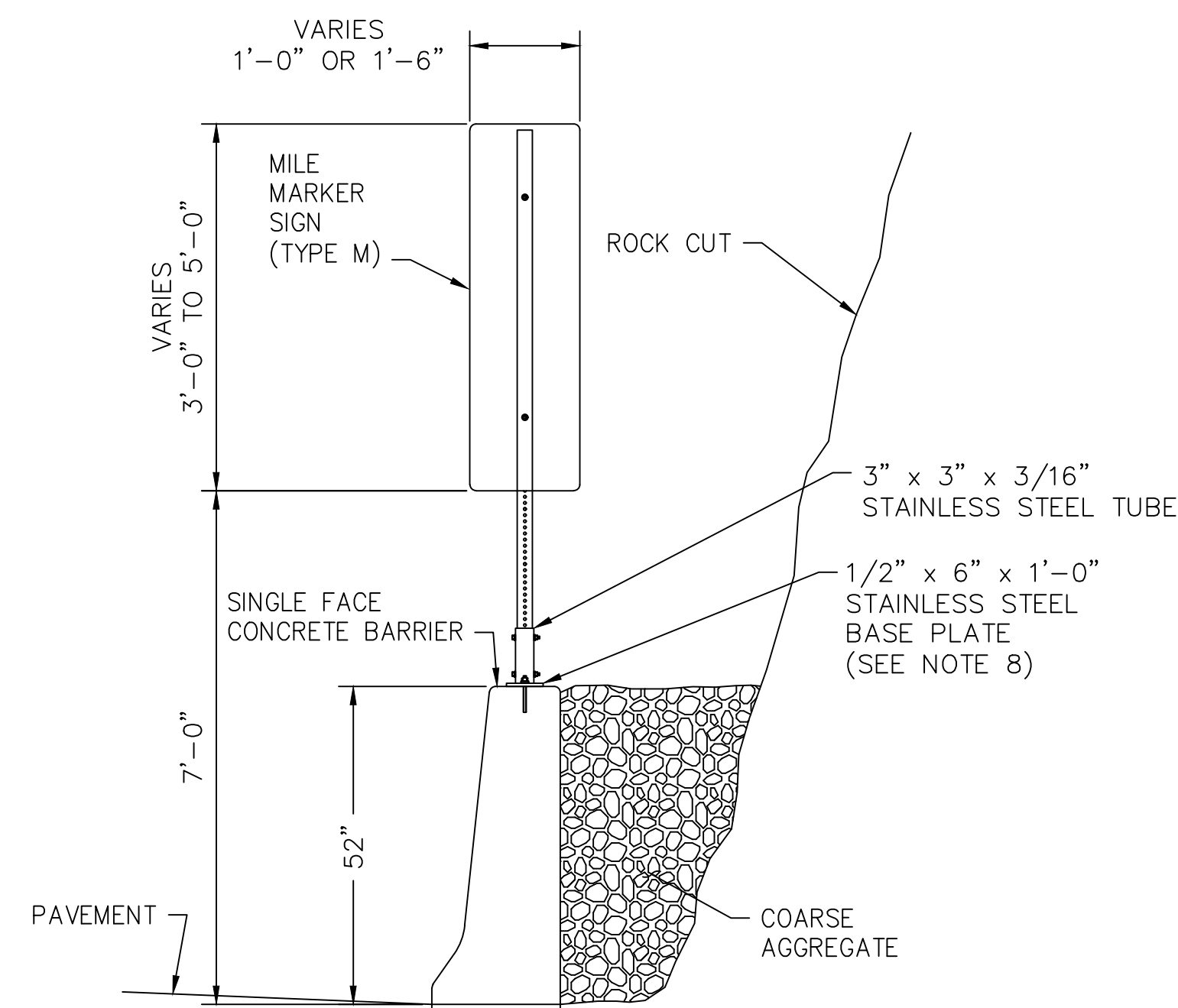
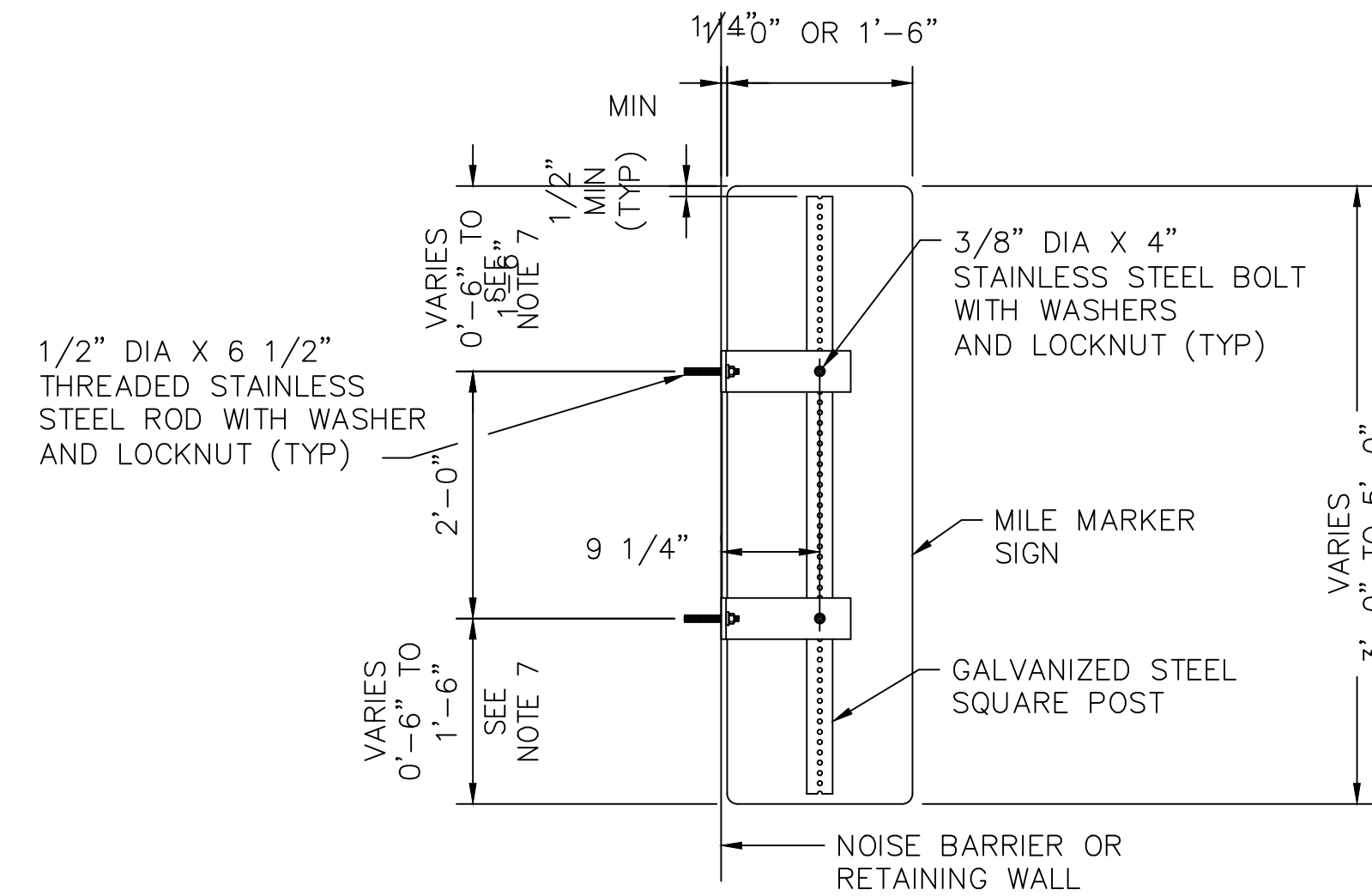
PLAN VIEW
NOISE BARRIERS OR
RETAINING WALLS



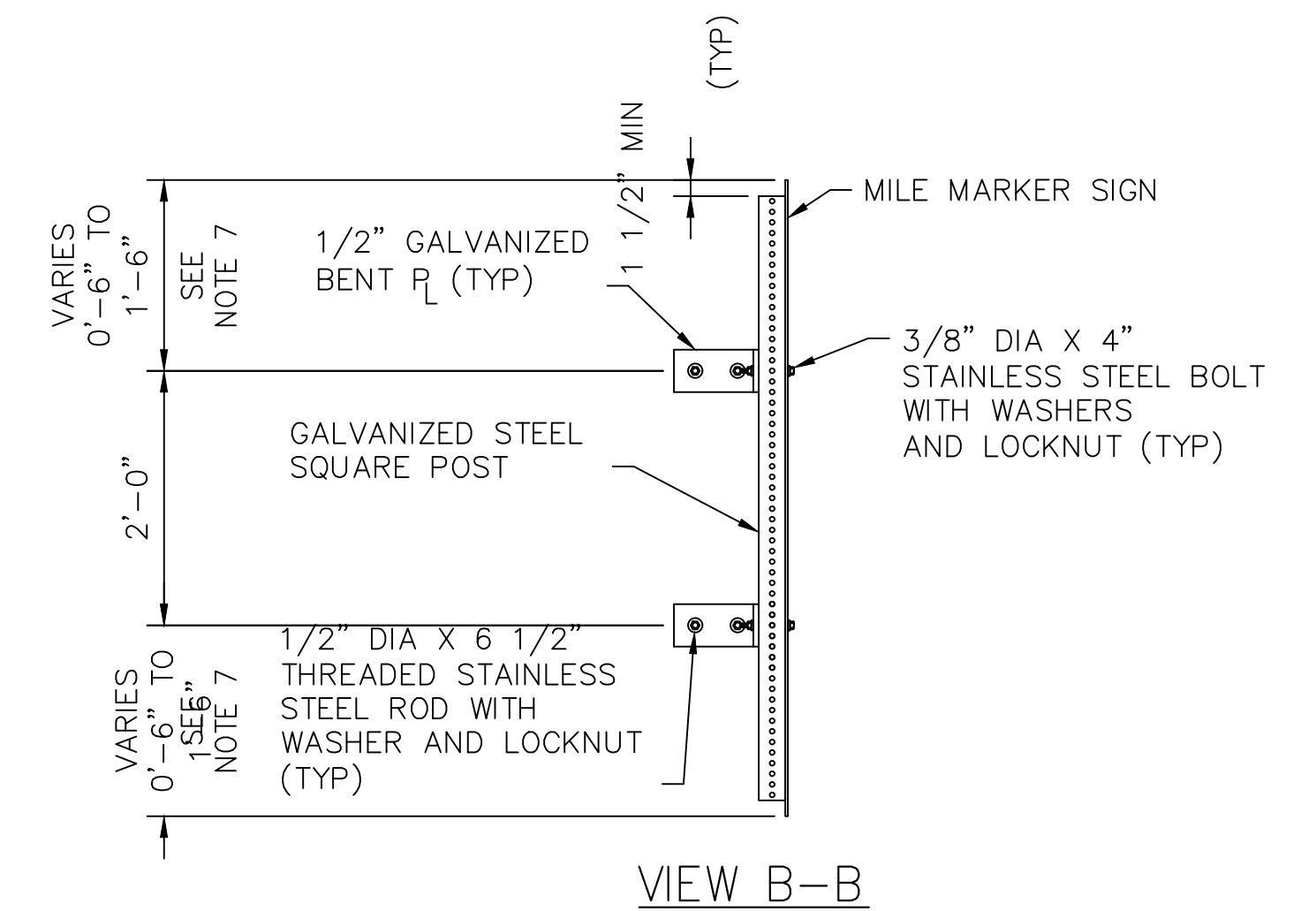
ELEVATION VIEW
NOISE BARRIERS OR
RETAINING WALLS
(HEIGHT ≥ 11.00 FT)



ELEVATION VIEW
ROCK FALL FENCE

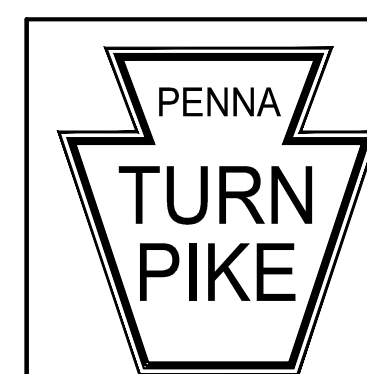


ELEVATION VIEW
SINGLE FACE CONCRETE BARRIER
ALONG ROCK CUT



NOTES:

- INSTALL SIGN SUPPORTS INTO CONCRETE PANELS OF NOISE BARRIERS OR RETAINING WALLS ONLY. DO NOT WELD TO STEEL POSTS OR DRILL INTO CONCRETE POSTS.
- DO NOT INSTALL SIGNS LARGER OR AT AN ELEVATION HIGHER THAN INDICATED.
- ADJUST LOCATION OF GALVANIZED BENT PLATE VERTICALLY ALONG GALVANIZED STEEL SQUARE POST IN FIELD AS NECESSARY TO MISS NOISE BARRIER OR RETAINING WALL PANEL JOINTS.
- MATERIALS:
 - PLATE: ASTM A709, GRADE 36, GALVANIZED
 - POST: 2 1/2" X 2 1/2" (10 GA.) GALVANIZED STEEL
 - BOLTS: ASTM F593, TYPE 304, CONDITION CW (Fy = 65 KSI)
 - LOCKNUTS: ASTM 594
 - WASHERS: NYLON 1/8" THICK BY 1-INCH MINIMUM OUTSIDE DIAMETER WITH 480 INCH-POUNDS MAXIMUM ALLOWABLE APPLIED TORQUE
 - * ANCHOR RODS: ASTM F593, TYPE 304, CONDITION CW (Fy = 65 KSI)
 - * ANCHORING SYSTEM: HVA ADHESIVE SYSTEM OR APPROVED EQUAL
 - * AS MANUFACTURED BY HILTI FASTENING SYSTEMS. HAS RODS (ITEM NO 385464) AND HVU ADHESIVE CAPSULES (ITEM NO 256693), OR AN APPROVED EQUAL. INSTALL IN ACCORDING WITH MANUFACTURER'S RECOMMENDATIONS.
- FOR GALVANIZED BENT PLATE DETAIL, SEE SHEET 32 OF 41.
- FOR RETAINING WALL HEIGHT < 11.00 FT SEE SHEET 30 OF 41.
- ADJUST DIMENSIONS AS REQUIRED FOR FIELD CONDITIONS.
- FOR BASE PLATE DETAILS, SEE SHEET 30 OF 41.
- FOR BASE PLATE MOUNTING TO SINGLE FACE CONCRETE BARRIER, SEE SHEET 30 OF 41.
- FOR SIGNS WITH A TOTAL SIGN AREA LESS THAN OR EQUAL TO 12 SQUARE FEET USE 21/2" x 21/2" (10 GA) GALVANIZED STEEL SQUARE POST. FASTEN POST TO SIGN SUPPORT USING TWO (2) 3/8" DIAMETER STAINLESS STEEL BOLTS, WASHERS AND LOCKNUTS.



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[Signature]

ASSISTANT CHIEF ENGINEER - DESIGN

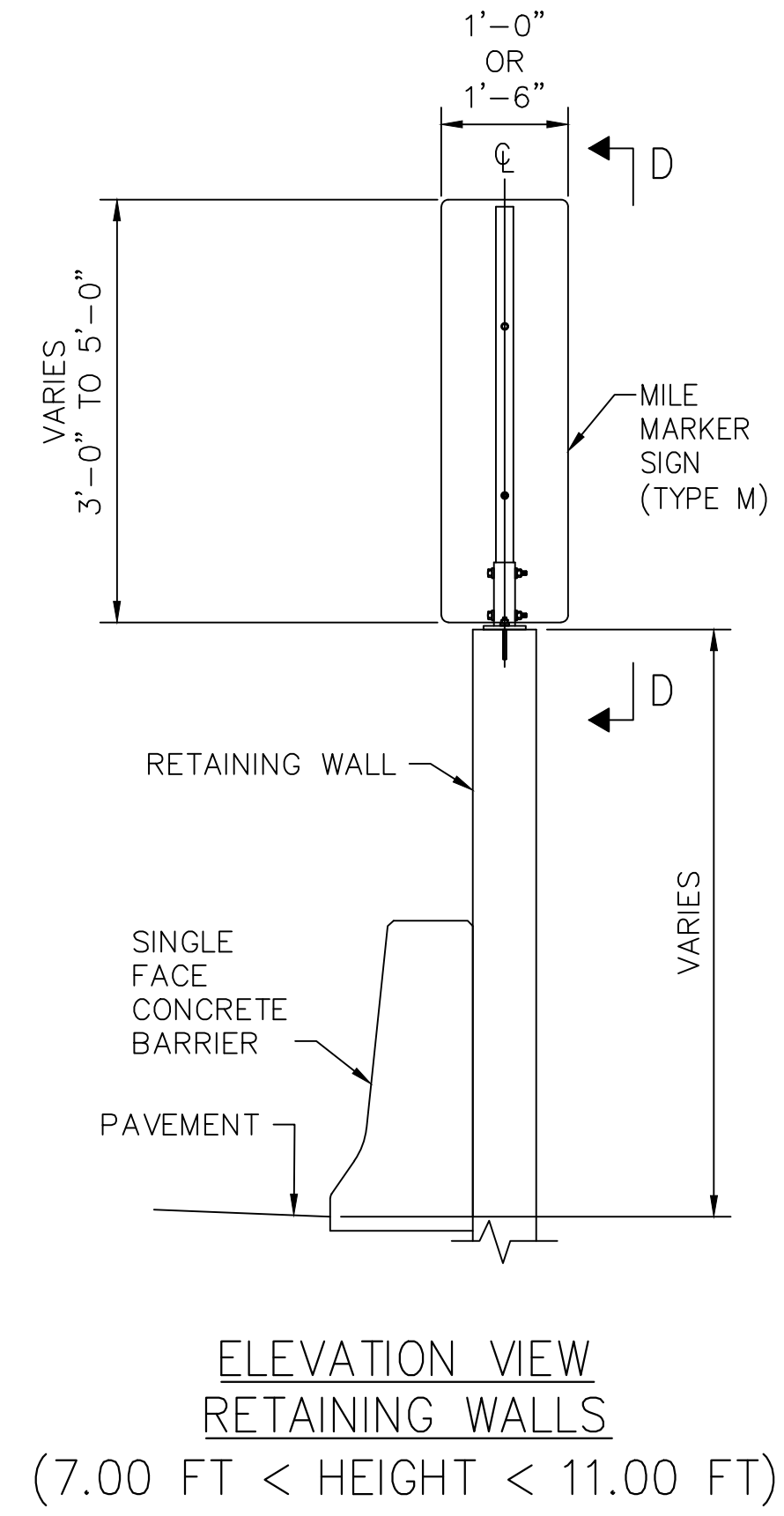
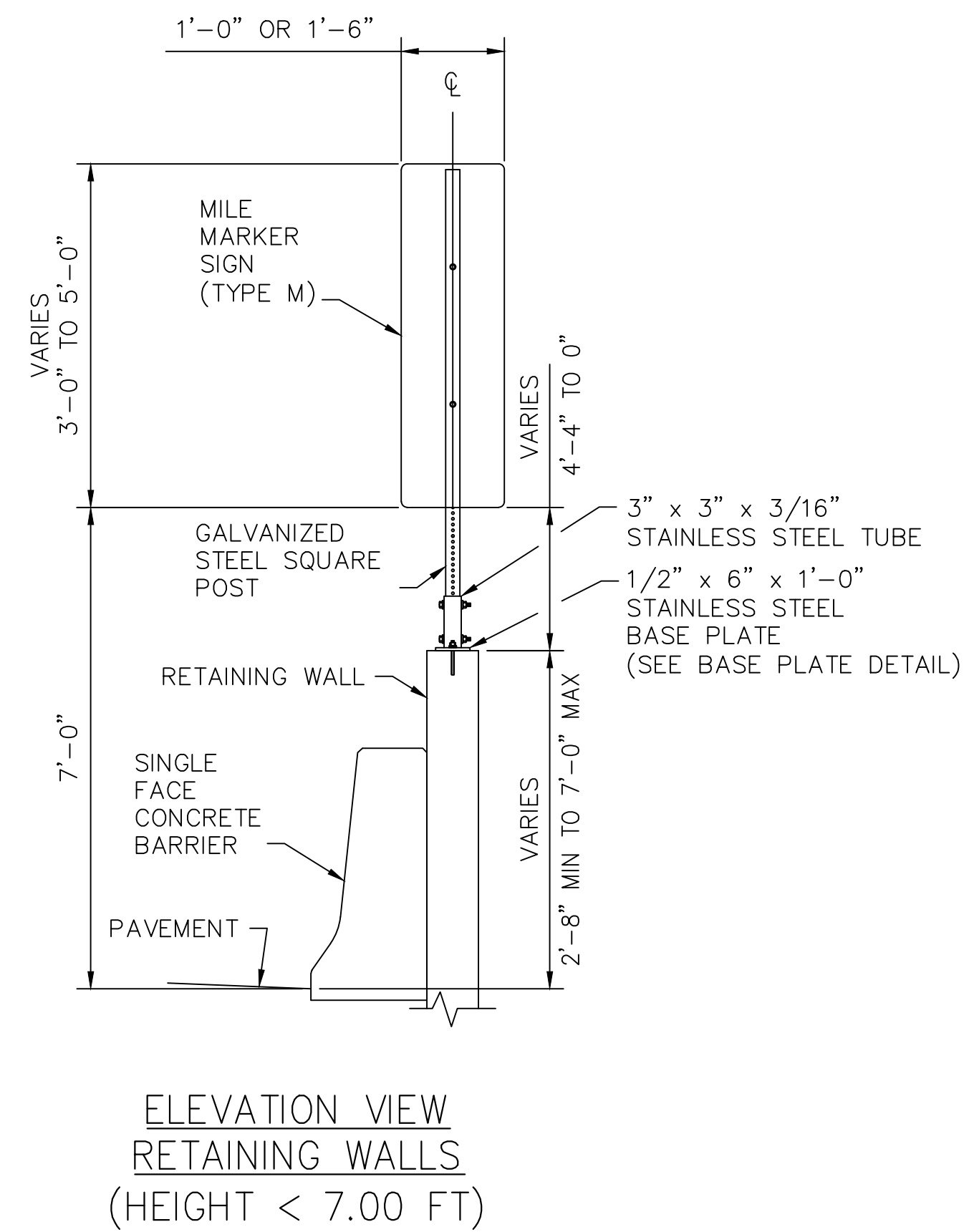
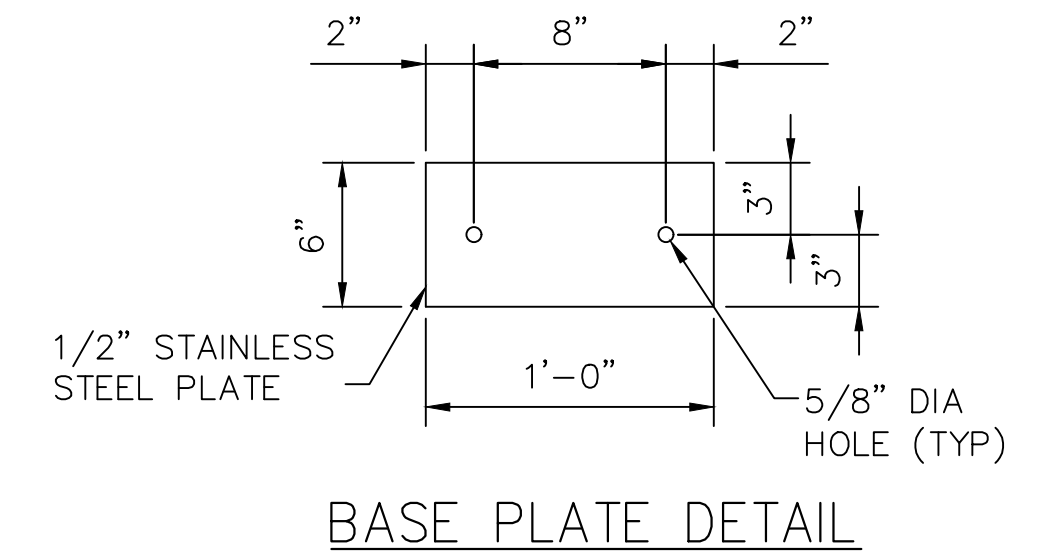
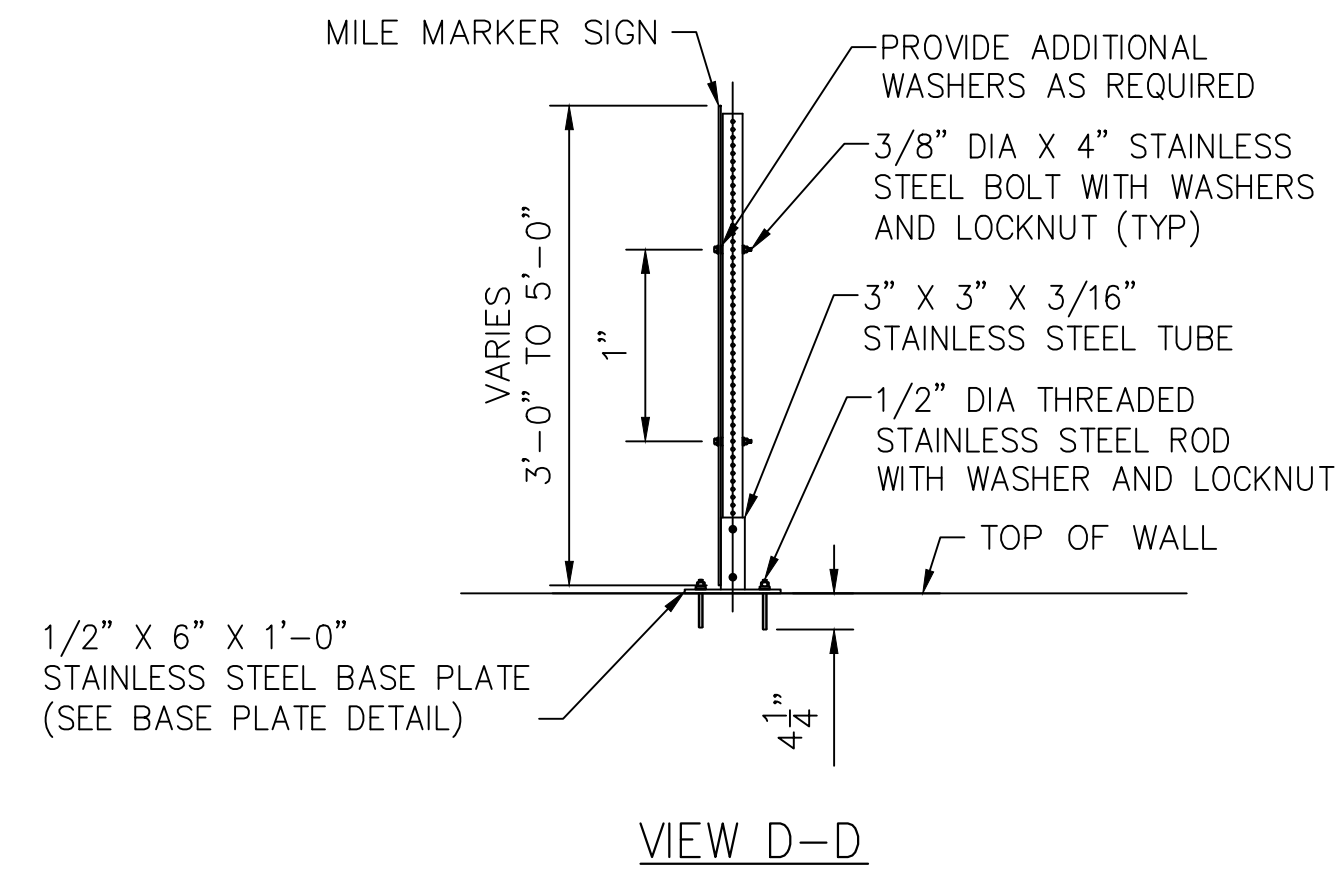
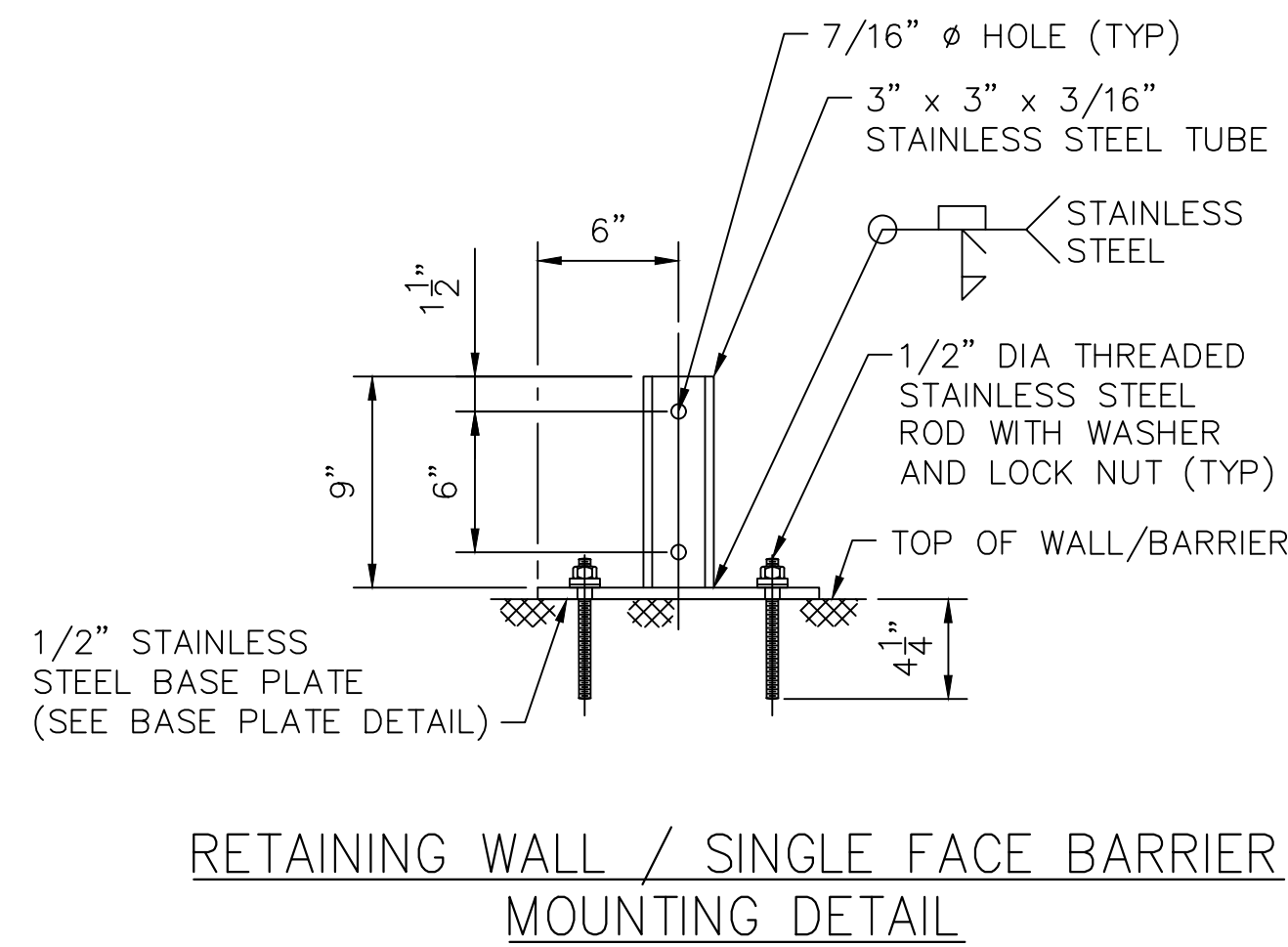
APPROVED: *[Signature]* MAY 3, 2024

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
INSTALLATION OF MILE MARKER SIGNS
ON
NOISE BARRIERS, RETAINING WALLS OR
ROCK FALL FENCE

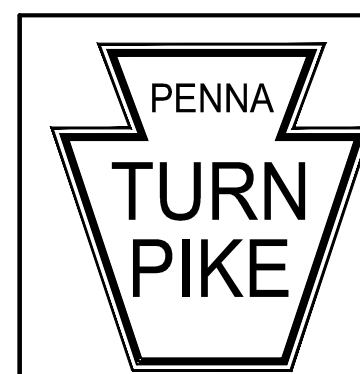
PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

FILE NAME: PTS-980-29.dwg	SHEET 29 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



NOTES:

1. ADJUST BENT PLATE DETAILS TO FIT FIELD CONDITIONS.
2. ADJUST DIMENSIONS AS REQUIRED FOR FIELD CONDITIONS.
3. FOR BENT PLATE DETAILS, SEE SHEET 32 OF 41.
4. FOR SIGNS WITH A TOTAL SIGN AREA LESS THAN OR EQUAL TO 12 SQUARE FEET USE 2 1/2" x 2 1/2" (10 GA) GALVANIZED STEEL SQUARE POST. FASTEN POST TO THE SIGN SUPPORT USING TWO (2) 3/8" DIAMETER STAINLESS STEEL BOLTS, WASHERS AND LOCKNUTS.
5. FOR ADDITIONAL NOTES, SEE SHEET 29 OF 41.

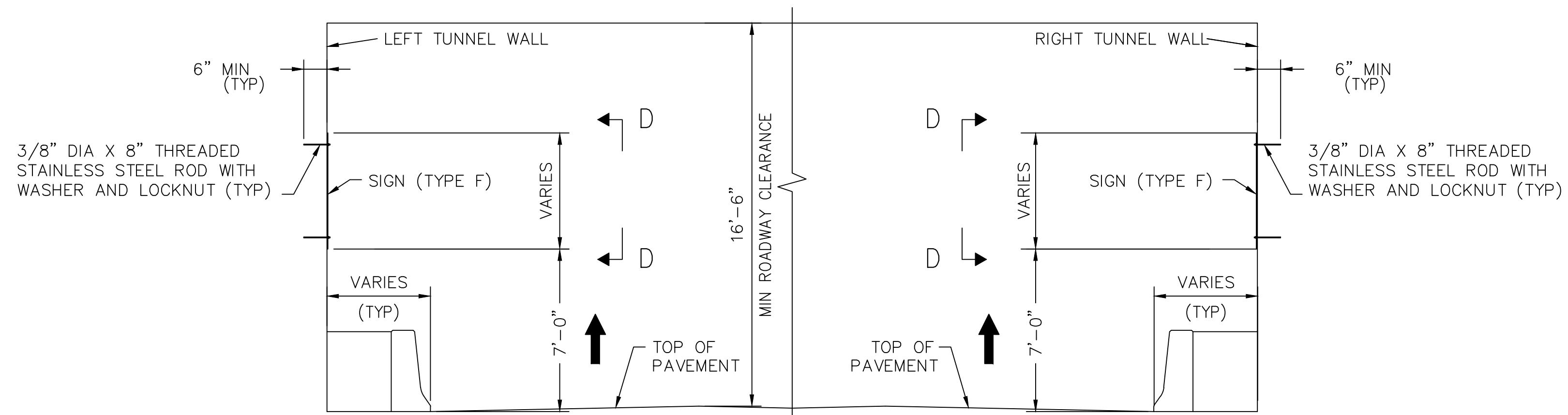


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[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
 INSTALLATION OF MILE MARKER SIGNS
 ON
 SOUND BARRIERS, RETAINING WALLS OR
 ROCK FALL FENCE

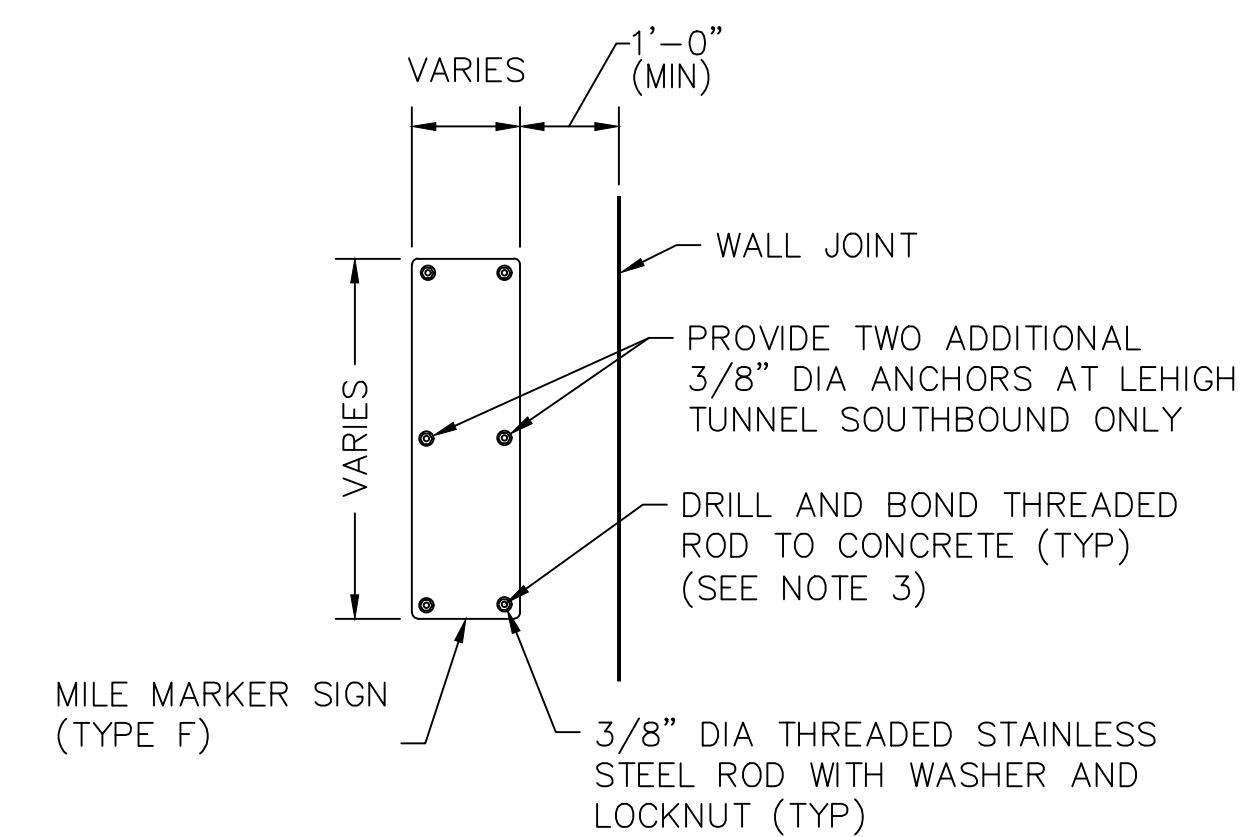
PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-30.dwg	SHEET 30 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980

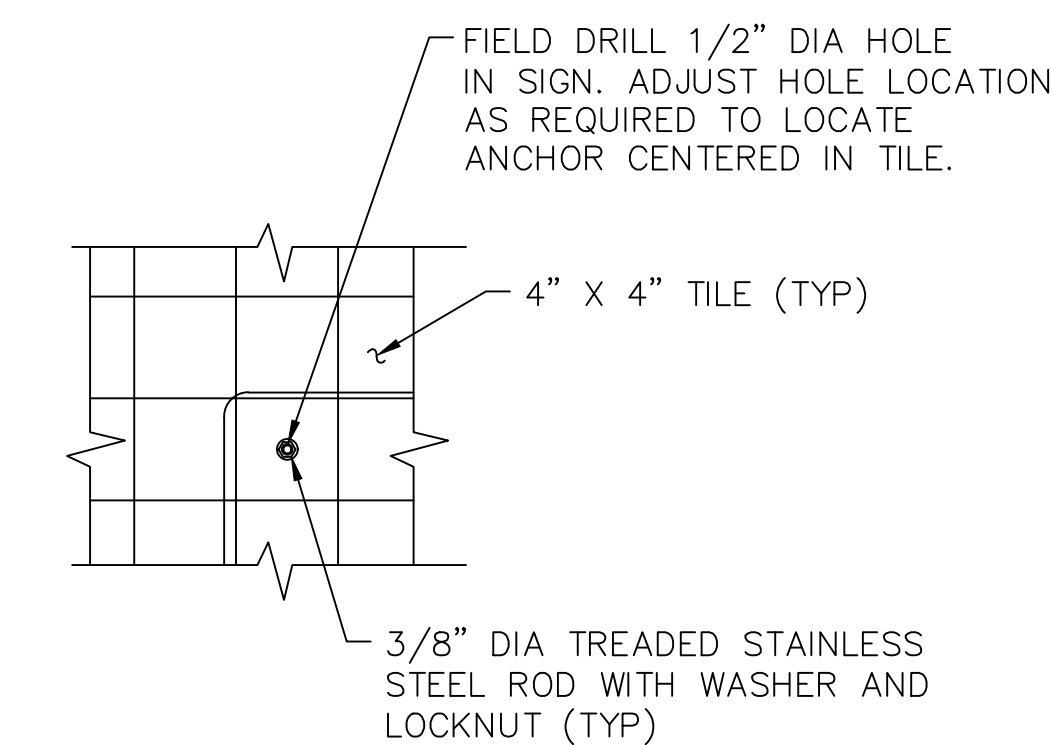


PARTIAL ELEVATION

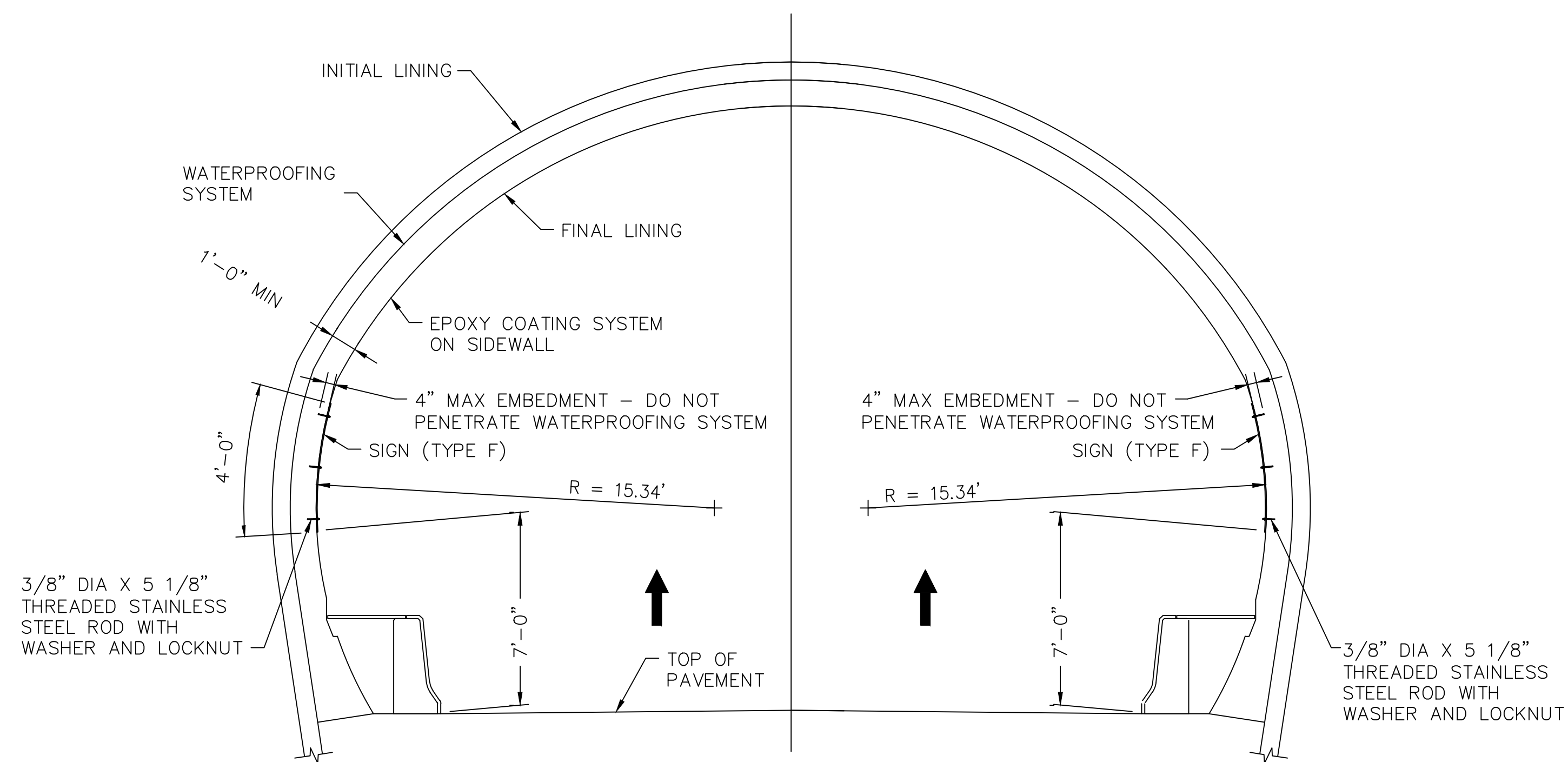
ALLEGHENY TUNNEL,
TUSCARORA TUNNEL,
KITTATINNY TUNNEL AND
LEHIGH TUNNEL NORTHBOUND



VIEW D-D



WALL TILE MOUNTING DETAIL

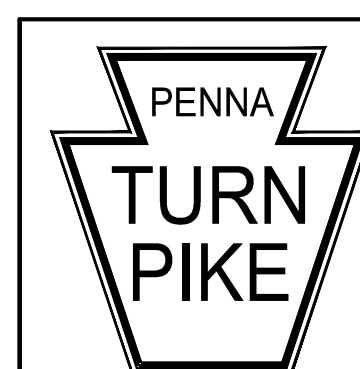


PARTIAL ELEVATION

LEHIGH TUNNEL SOUTHBOUND

NOTES:

- ADJUST SIGN LOCATION AS NECESSARY TO AVOID DOORS AND WALL CABINETRY.
- LOCATE TOP OF MILE MARKER SIGN 1'-0" BELOW LIGHTING SYSTEM INSTALLED IN THE LEHIGH TUNNEL NORTHBOUND.
- MATERIALS:
 - LOCKNUTS: ASTM 594
 - WASHERS: NYLON 1/8" THICK BY 1-INCH MINIMUM OUTSIDE DIAMETER WITH 480 INCH-POUNDS MAXIMUM ALLOWABLE APPLIED TORQUE
 - * ANCHOR RODS: ASTM F593, TYPE 304, CONDITION CW (Fy = 65 KSI)
 - * ANCHORING SYSTEM: HVA ADHESIVE SYSTEM OR APPROVED EQUAL
 - * AS MANUFACTURED BY HILTI FASTENING SYSTEMS. HAS RODS (ITEM NO 385462 AND 385463) AND HVU ADHESIVE CAPSULES (ITEM NO 256692), OR AN APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- HORIZONTAL AND VERTICAL MAXIMUM SPACING BETWEEN ADHESIVE ANCHORS TO BE 18" CENTER TO CENTER.

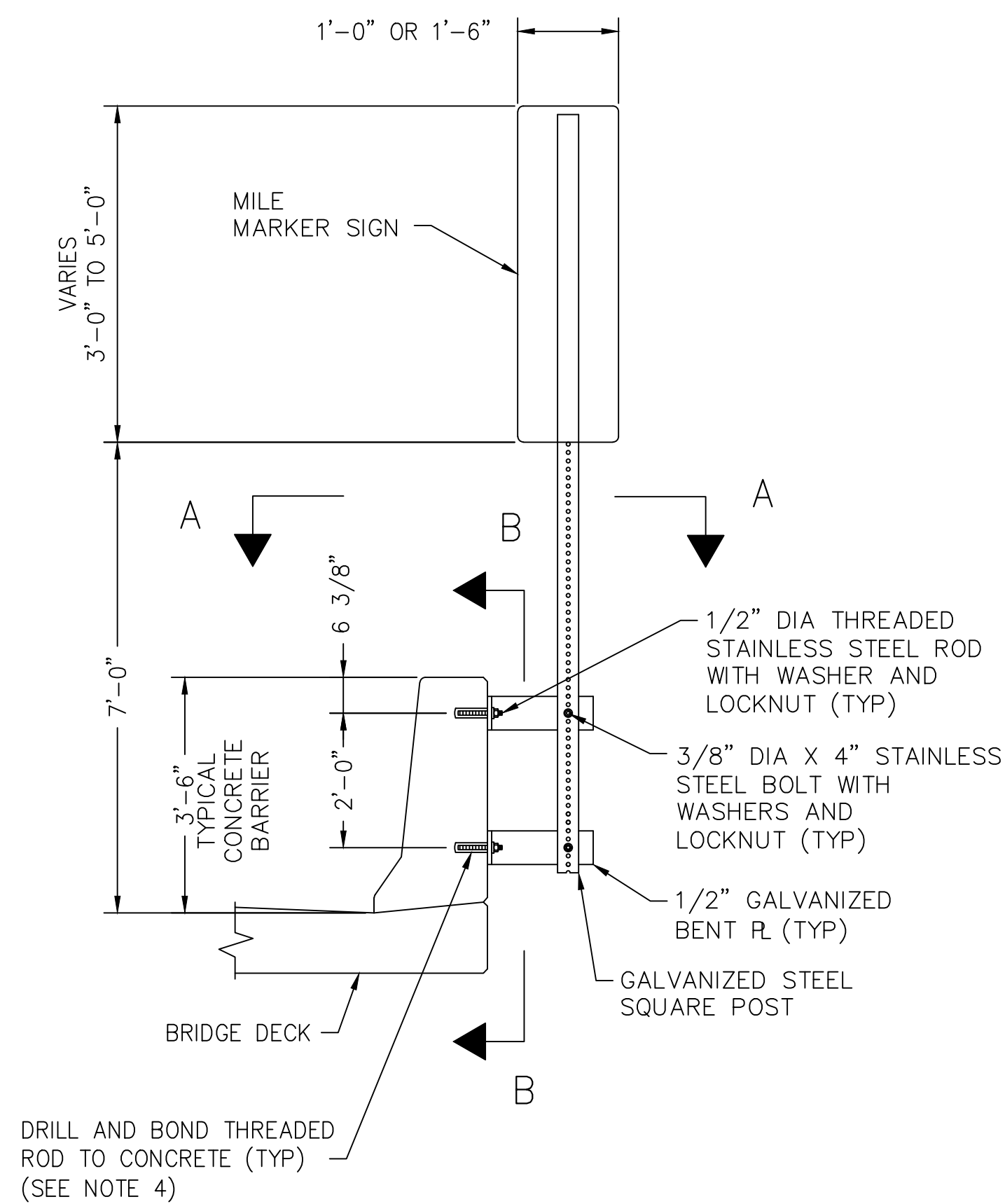


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 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

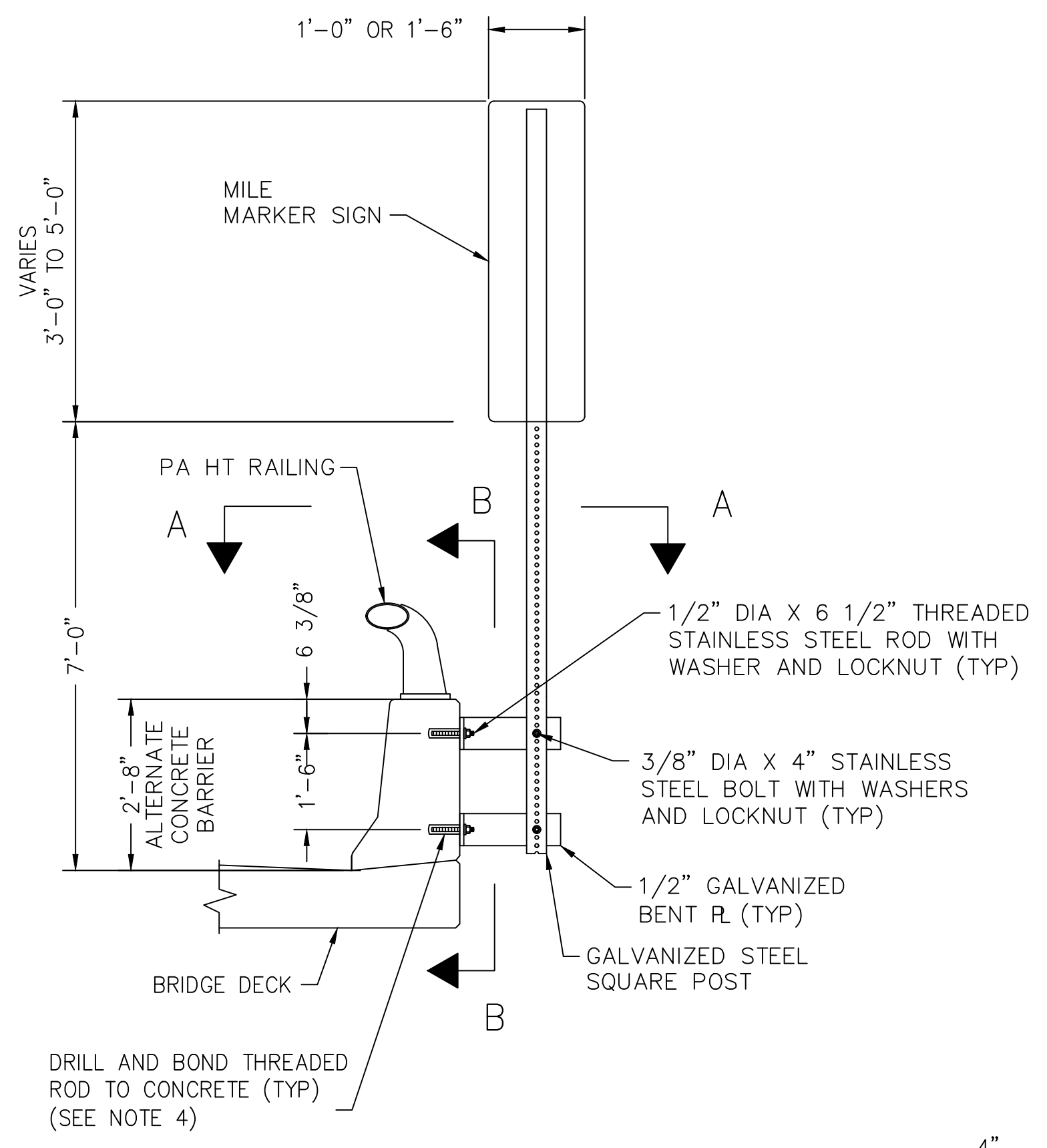
**CONSTRUCTION AND MAINTENANCE
 INSTALLATION OF FLUSH MOUNTED SIGNS
 IN
 TUNNELS**

**PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING**

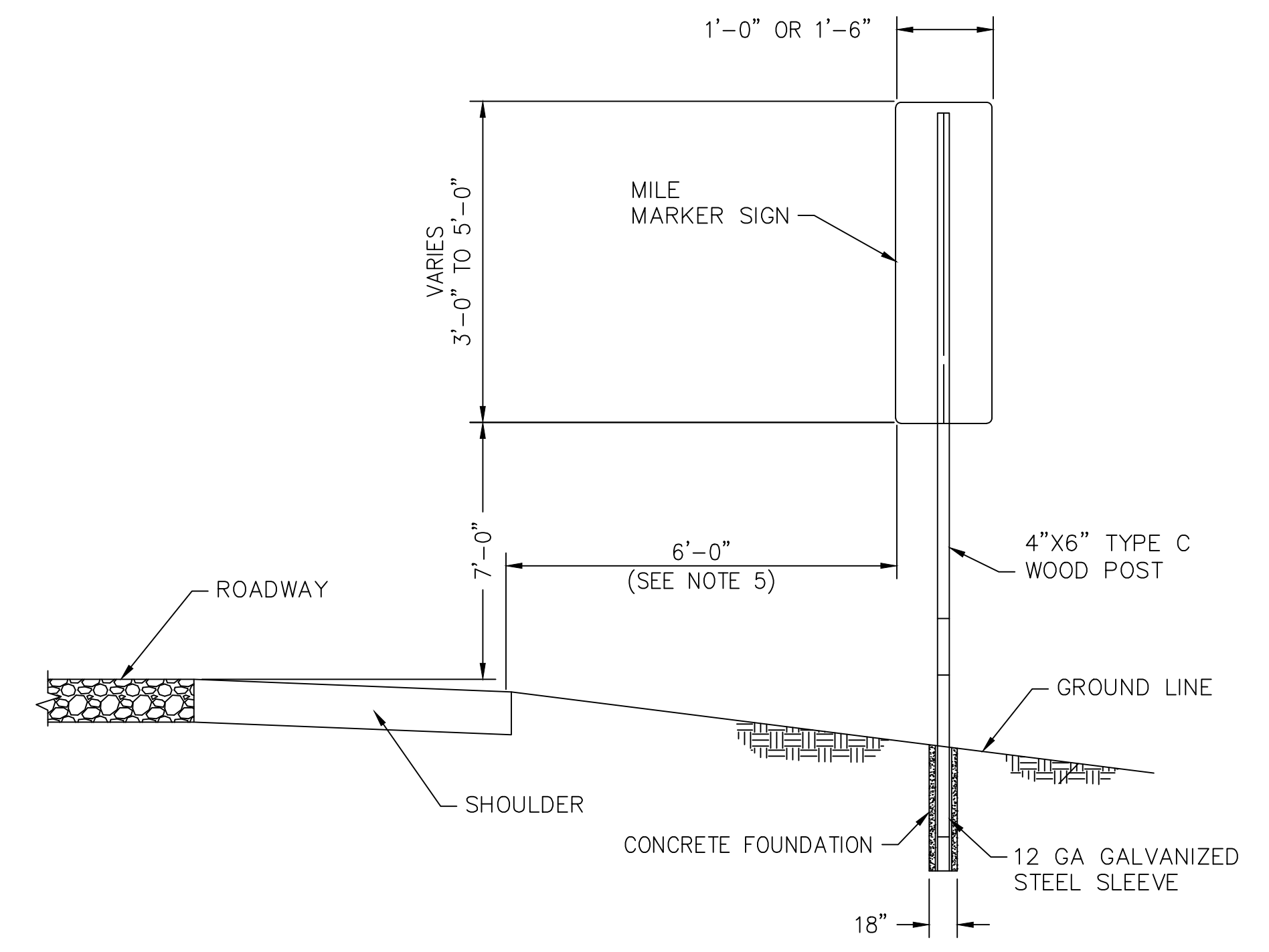
FILE NAME: PTS-980-31.dwg	SHEET 31 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



ELEVATION VIEW
TYPICAL CONCRETE BARRIER



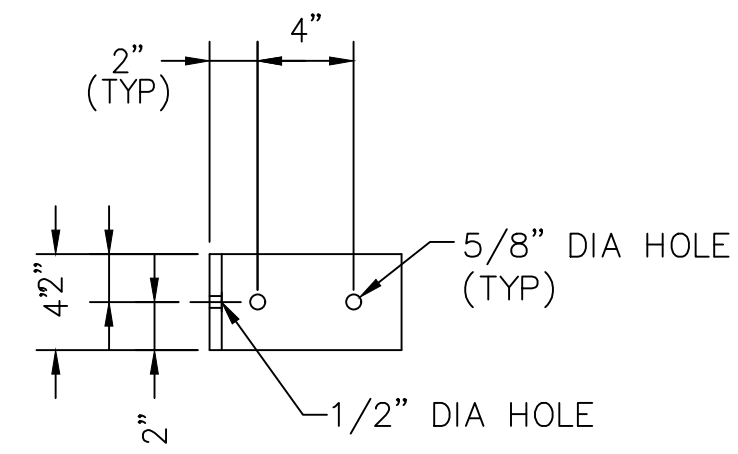
ELEVATION VIEW
ALTERNATE CONCRETE BARRIER



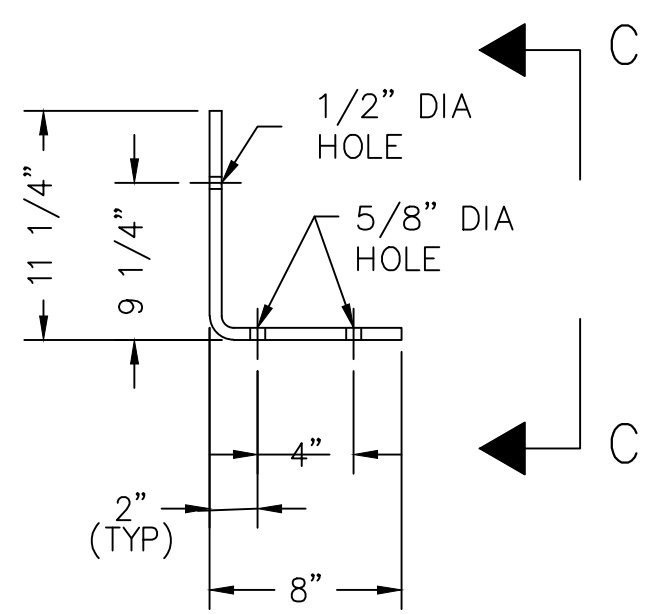
ELEVATION VIEW
SHOULDER APPLICATION

NOTES:

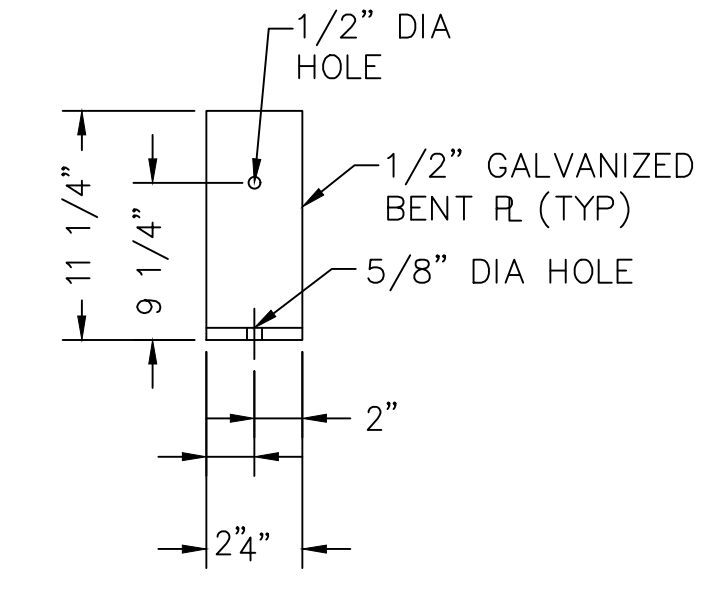
- DO NOT INSTALL SIGNS LARGER OR AT AN ELEVATION HIGHER THAN INDICATED.
- DO NOT MOUNT SIGN DIRECTLY ABOVE ROADWAY LANE, SHOULDER, AND SIDEWALK LIMITS FOR BRIDGES WITH ROADWAYS UNDERNEATH. ADJUST SIGN LOCATION ACCORDINGLY.
- USE PACHOMETER OR OTHER APPROVED DETECTOR TO AVOID DRILLING THROUGH REBAR IN EXISTING CONCRETE BARRIER.
- MATERIALS:
 - PLATE: ASTM A709, GRADE 36, GALVANIZED
 - POST: 2 1/2" X 2 1/2" (10 GA.) GALVANIZED STEEL
 - BOLTS: ASTM F593, TYPE 304, CONDITION CW (Fy = 65 KSI)
 - LOCKNUTS: ASTM 594
 - WASHERS: NYLON 1/8" THICK BY 1-INCH MINIMUM OUTSIDE DIAMETER WITH 480 INCH-POUNDS MAXIMUM ALLOWABLE APPLIED TORQUE
 - * ANCHOR RODS: ASTM F593, TYPE 304, CONDITION CW (Fy = 65 KSI)
 - * ANCHORING SYSTEM: HVA ADHESIVE SYSTEM OR APPROVED EQUAL
 - * AS MANUFACTURED BY HILTI FASTENING SYSTEMS. HAS RODS (ITEM NO 385464) AND HVU ADHESIVE CAPSULES (ITEM NO 256693), OR AN APPROVED EQUAL. INSTALL IN ACCORDING WITH MANUFACTURER'S RECOMMENDATIONS.
- WHEN GUIDERAIL IS PRESENT, A 2' TO 6' LATERAL CLEARANCE FROM BACK OF GUIDERAIL IS RECOMMENDED, AS SITE CONDITIONS PERMIT A 1' LATERAL CLEARANCE IS PERMISSIBLE IF APPROVED BY THE REPRESENTATIVE.



PLAN

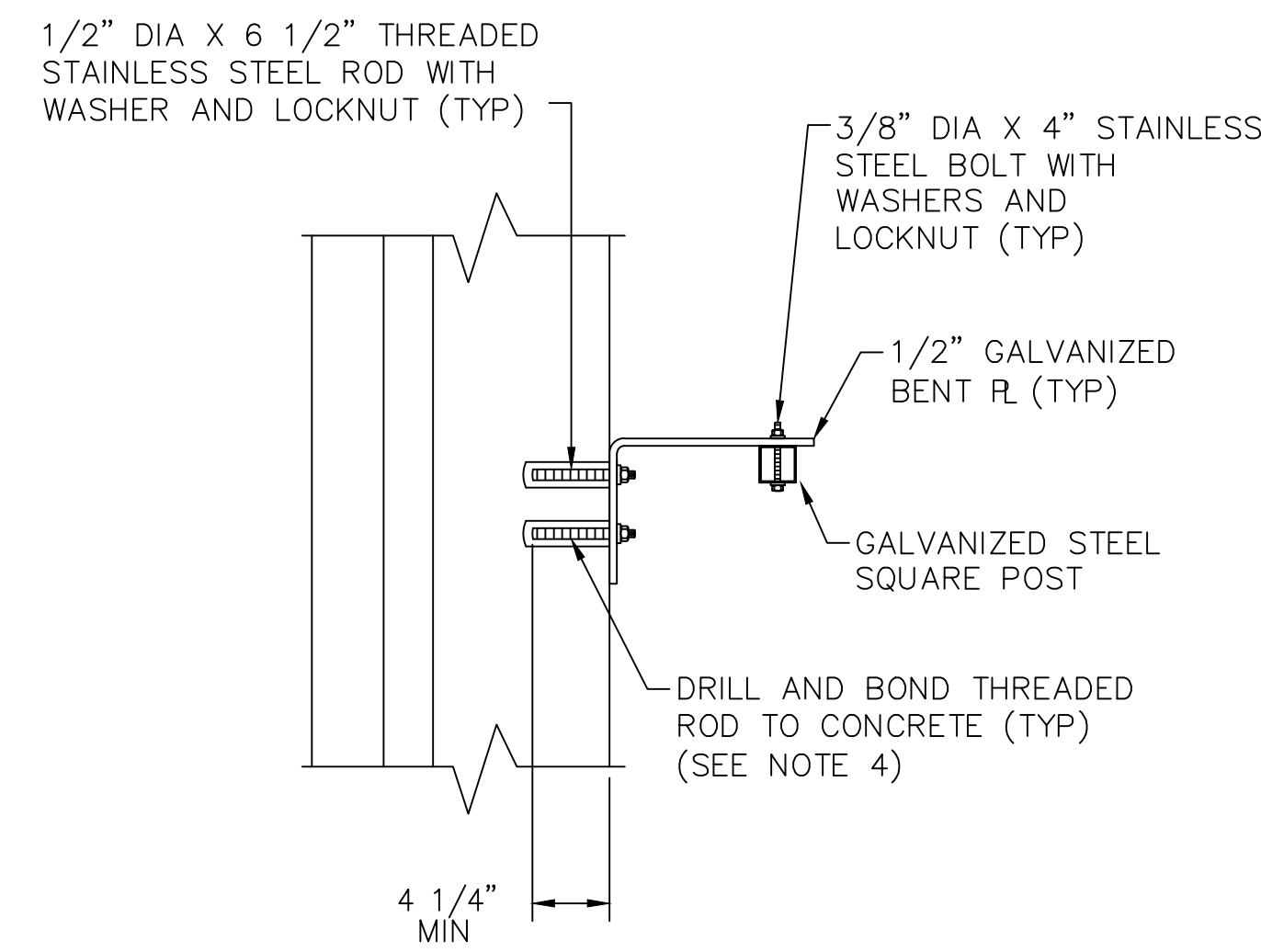


TYPICAL SECTION



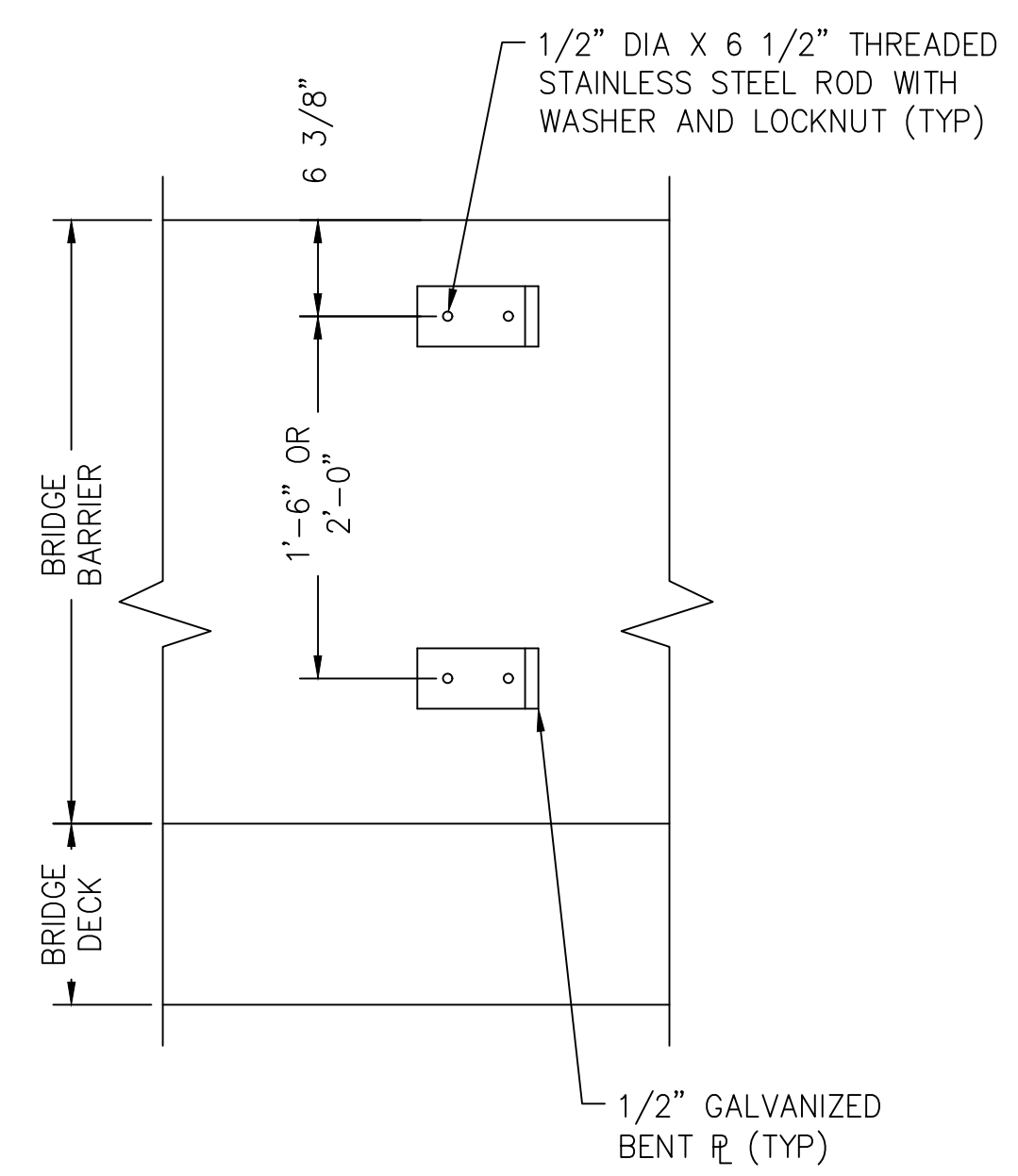
VIEW C-C

GALVANIZED BENT PLATE DETAIL



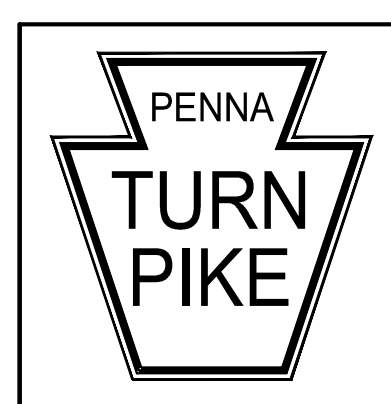
SECTION A-A

(RAILING NOT SHOWN FOR CLARITY)



SECTION B-B

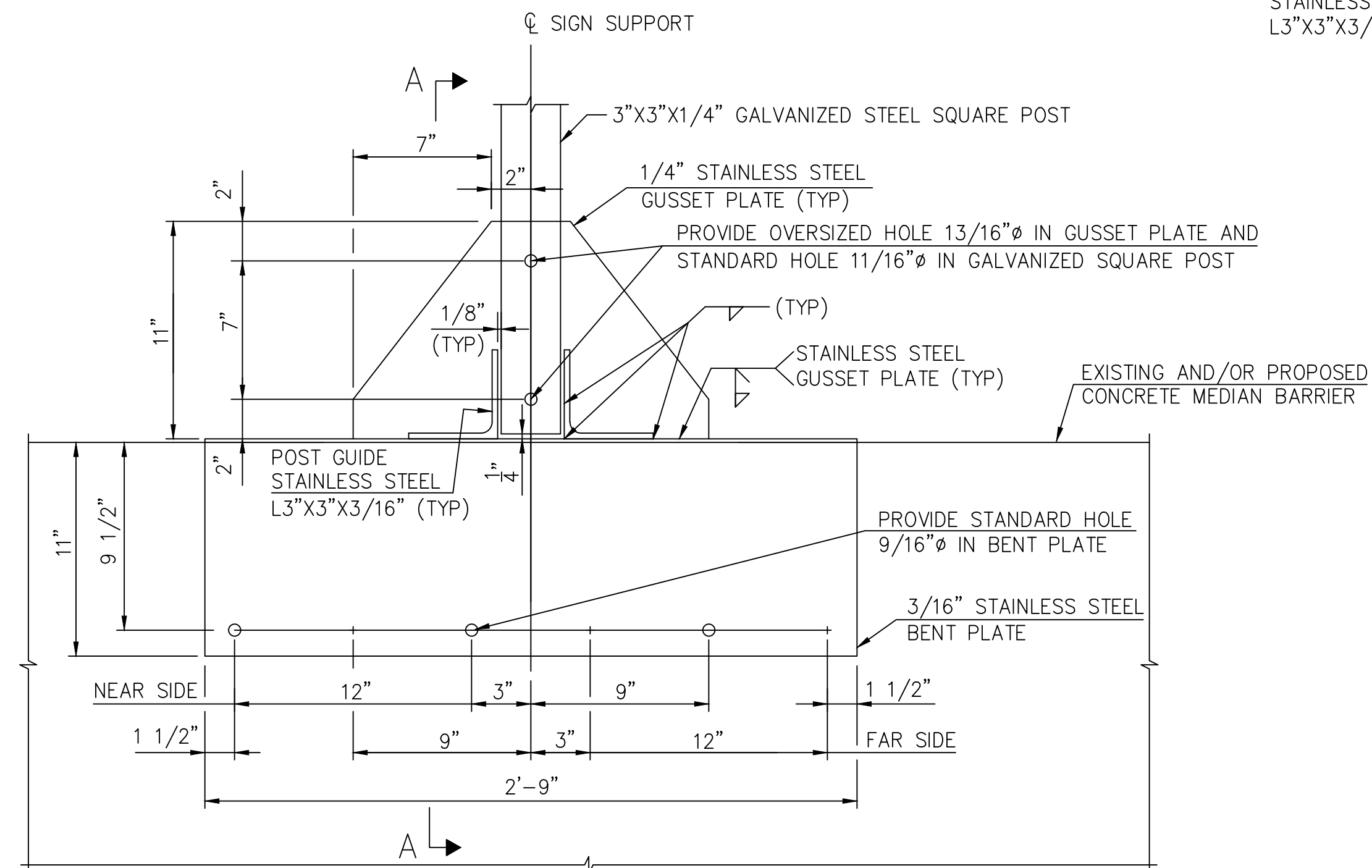
(RAILING NOT SHOWN FOR CLARITY)



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 ASSISTANT CHIEF ENGINEER - DESIGN
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 CHIEF ENGINEER

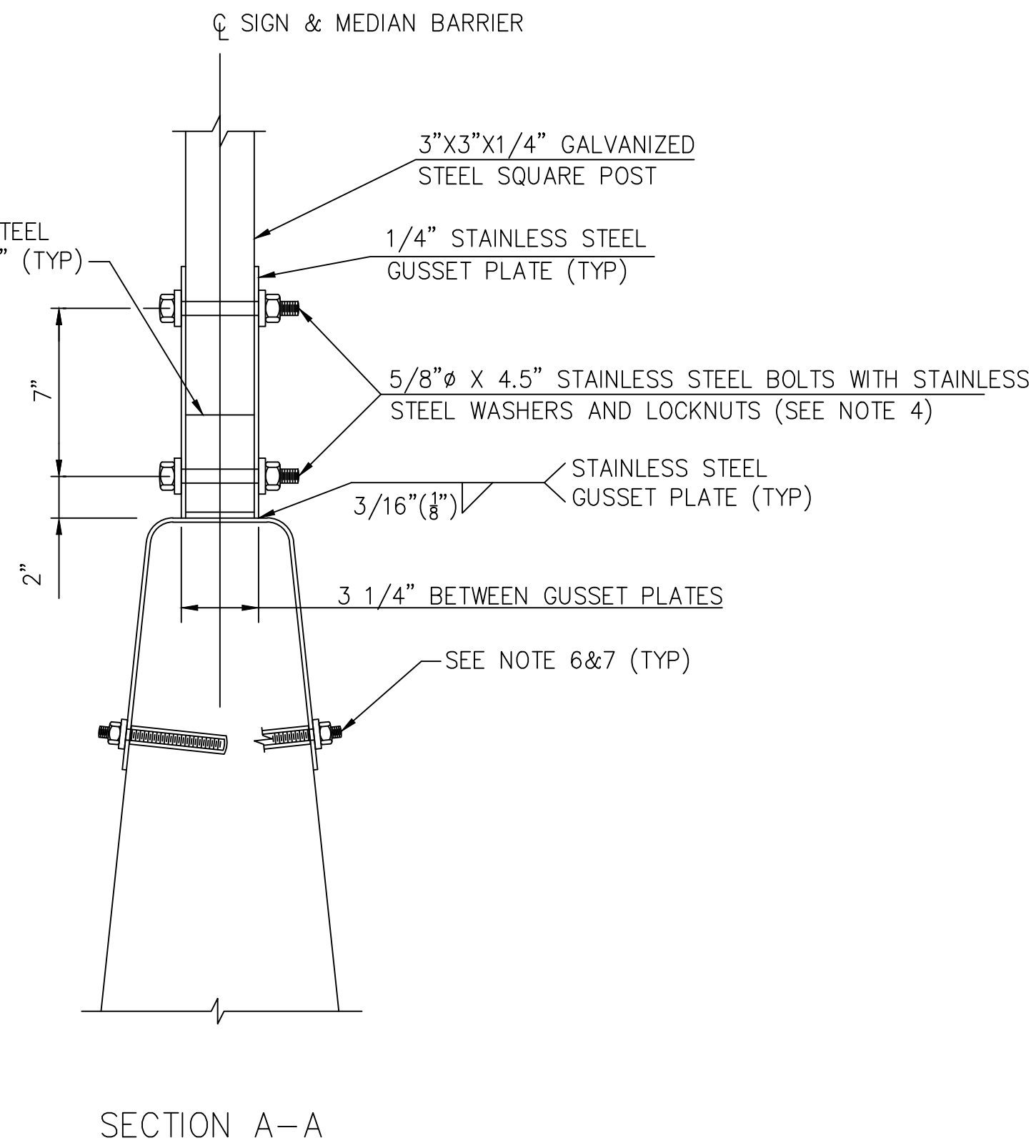
CONSTRUCTION AND MAINTENANCE
 INSTALLATION OF MILE MARKER SIGNS
 FOR
 BRIDGE BARRIERS AND
 SHOULDER APPLICATIONS

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-32.dwg	SHEET 32 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980

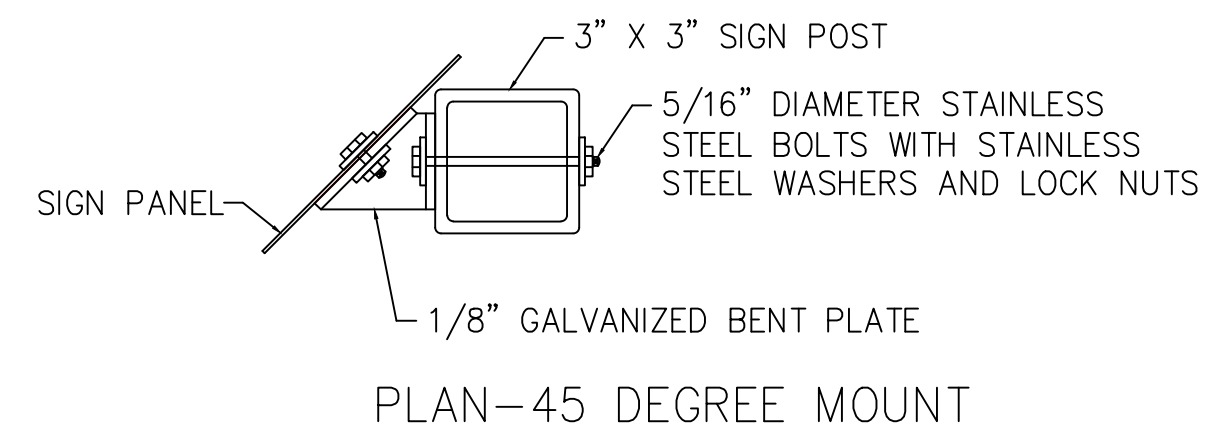


* DIMENSIONS MEASURED ALONG FACE OF BARRIER

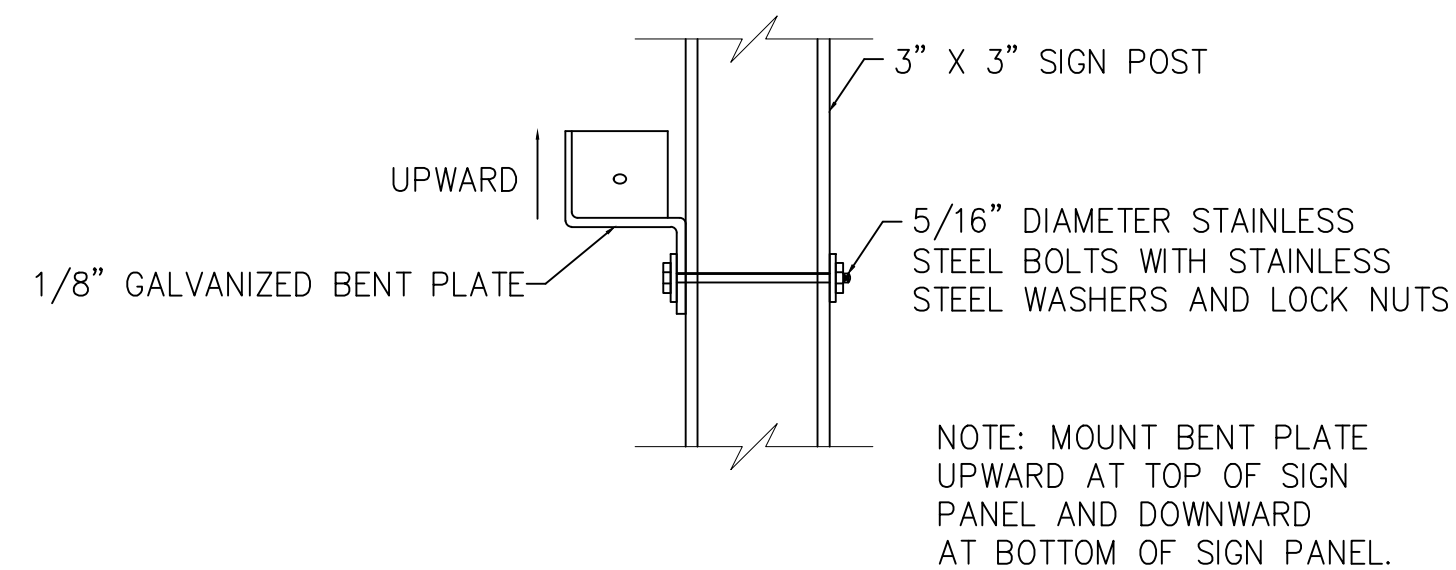
MEDIAN BARRIER SIGN SUPPORT DETAIL



SECTION A-A



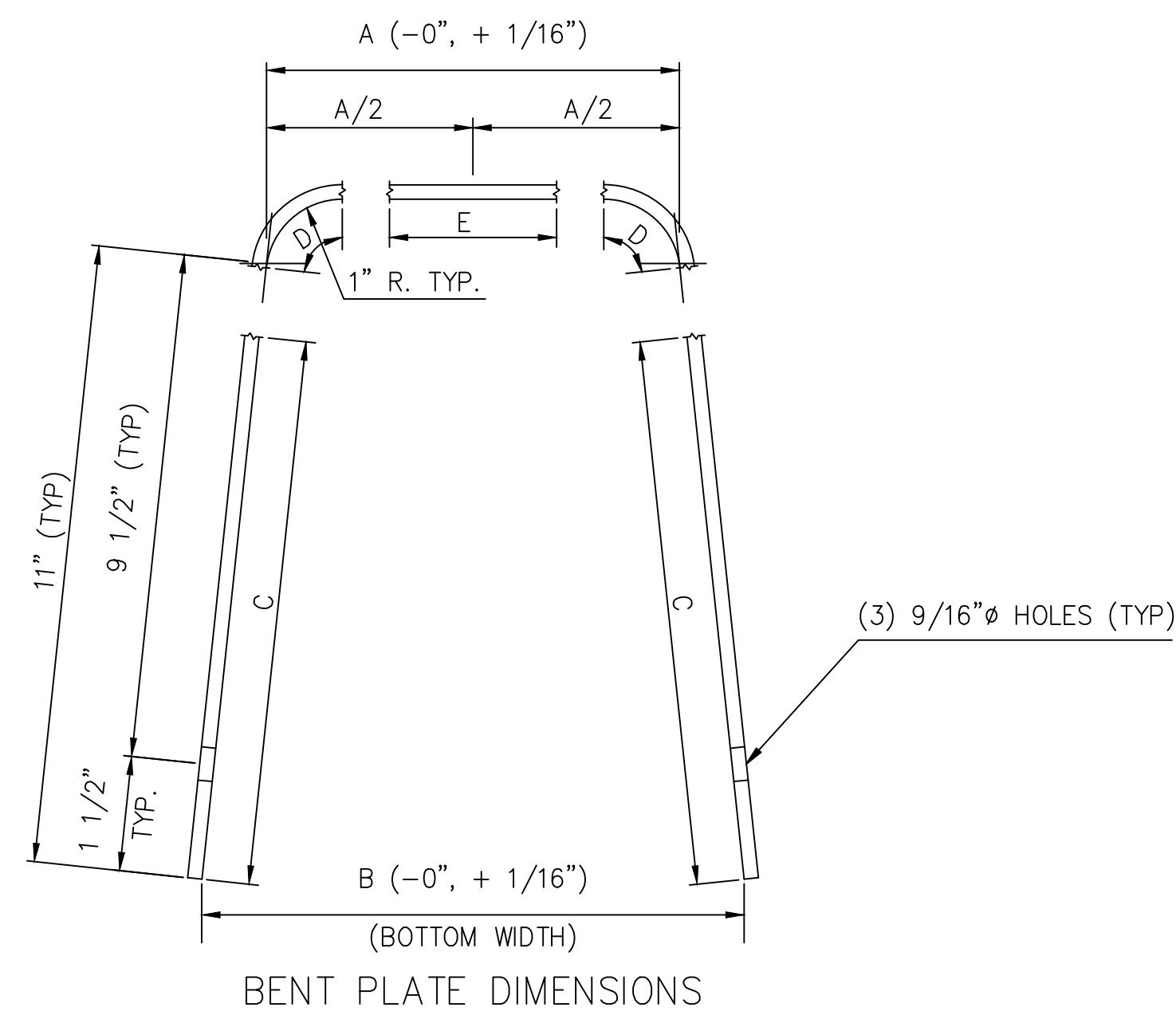
PLAN-45 DEGREE MOUNT



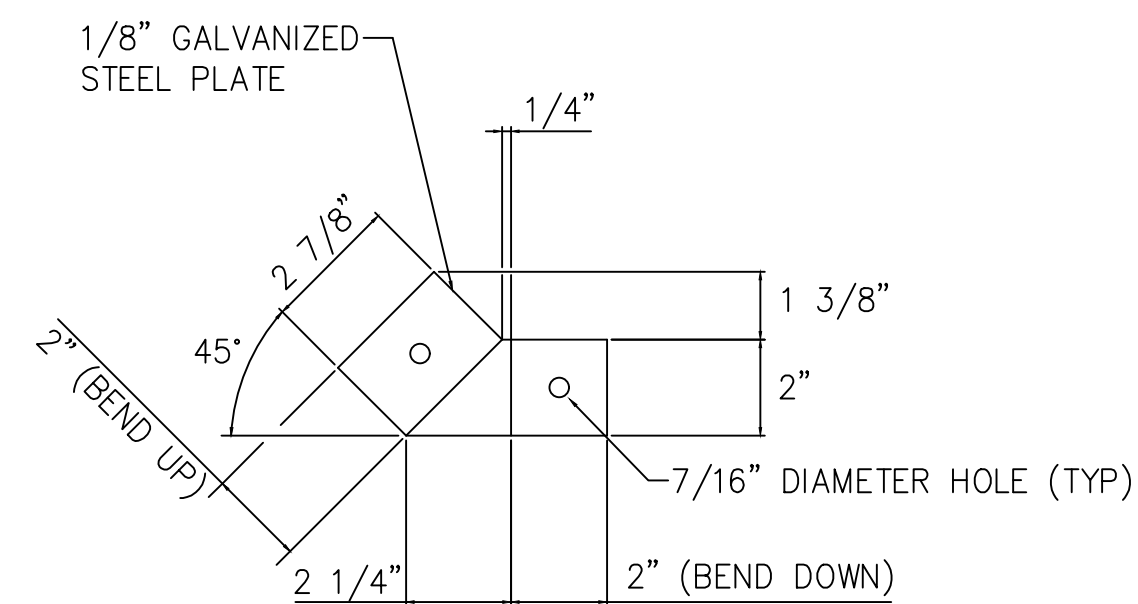
ELEVATION-45 DEGREE MOUNT

NOTES:

- INSTALL SIGN SUPPORTS NEAR THE CENTER OF PRECAST BARRIER SEGMENTS WITHIN A MAXIMUM DISTANCE OF 3'-0" MEASURED TO EACH SIDE OF THE SEGMENT CENTERLINE.
- DO NOT INSTALL SIGNS LARGER OR AT AN ELEVATION HIGHER THAN INDICATED. DO NOT PLACE SIGNS ON SLOPING TRANSITION SECTIONS BETWEEN BARRIERS OF DIFFERENT HEIGHT.
- FURNISH WELDS IN ACCORDANCE WITH AWS D1.6:2017 STRUCTURAL WELDING CODE FOR STAINLESS STEEL.
- MATERIALS:
 STAINLESS STEEL:
 PLATE: ASTM A240, TYPE 304, 2B FINISH (F_y=30 KSI MIN.)
 BOLTS: ASTM F593, TYPE 304, CONDITION CW1 (F_y=65 KSI)
 NUTS: ASTM F594
 WASHERS: ASTM F436, TYPE 304
 GALVANIZED STEEL SQUARE POST:
 COLD ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 50 KSI MEETING THE CHEMICAL AND MECHANICAL REQUIREMENT OF ASTM A500.
 STEEL MOUNT PLATE:
 ASTM A709, GRADE 50
- DIMENSIONS OF BARRIER IN CHART TO BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN SUPPORT.
- PERMANENT SIGN INSTALLATIONS - PROVIDE HILTI ANCHOR ROD HAS-R 1/2" X 6-1/2" SS304 (ITEM NO. 385464) AND HILTI ADHESIVE CAPSULE HVU 1/2" X 4-1/4" (ITEM NO. 256693) EMBEDDED 4-1/4" MIN. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- TEMPORARY SIGN INSTALLATIONS - PROVIDE 1/2" X 2-3/4" POWERS STAINLESS STEEL HEX HEAD POWER-BOLT (CAT. NO. 5930) EMBEDDED 2-1/2" MIN. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- AFTER REMOVAL OF TEMPORARY SIGN, FILL ANCHOR HOLES IN CONCRETE MEDIAN BARRIER, TO ENTIRE HOLE DEPTH, WITH NON-SHRINK GROUT.
- USE 45 DEGREE MOUNT PLATE FOR SIGN CONFIGURATIONS INSTALLED ALONG A CURVE. THE 45 DEGREE MOUNT PLATE IS PERMITTED ONLY FOR SIGN CONFIGURATIONS WITH LESS THAN OR EQUAL TO 22.25 SQUARE FEET.

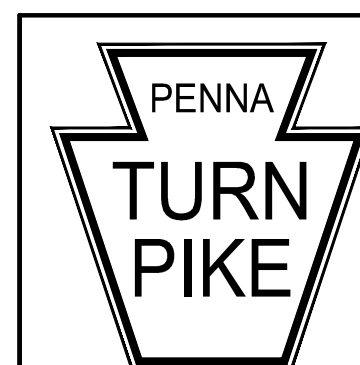


BENT PLATE DIMENSIONS



45 DEGREE MOUNT PLATE DETAIL

TYPE	BARRIER DIMENSIONS			PLATE DIMENSIONS							REMARKS
	W	H	SS	A = W+1/4"	B	C	D	E	R SIZE		
1	6"	34"	9.5"	6 1/4"	8 9/16"	10 1/16"	1 7/16"	4 7/16"	27 7/16" x 2'-9"	34" JERSEY BARRIER	
2	9"	34"	8.8"	9 1/4"	11 3/4"	10 1/16"	1 7/16"	7 7/16"	30 7/16" x 2'-9"	34" F-SHAPE BARRIER	
3A	5" MIN.-5 1/2" MAX.	48"	9.5"	5 1/4" MIN.-5 3/4" MAX.	7 9/16" MIN.-8 1/16" MAX.	10 1/16"	1 7/16"	3 7/16" MIN.-3 15/16" MAX.	26 7/16" MIN.-26 15/16" MAX. x 2'-9"	48" JERSEY BARRIER	
3B	4 1/2" MIN.-5" MAX.	48"	9.5"	4 3/4" MIN.-5 1/4" MAX.	7 1/16" MIN.-7 9/16" MAX.	10 1/16"	1 7/16"	2 15/16" MIN.-3 7/16" MAX.	25 15/16" MIN.-26 7/16" MAX. x 2'-9"	48" JERSEY BARRIER	
4	4" MIN.-6" MAX.	52"	9.5"	4 1/4" MIN.-6 1/4" MAX.	6 9/16" MIN.-8 9/16" MAX.	10 1/16"	1 7/16"	2 7/16" MIN.-4 7/16" MAX.	25 7/16" MIN.-27 7/16" MAX. x 2'-9"	52" JERSEY BARRIER	
5	5"	52"	8.9"	5 1/4"	7 11/16"	10 1/16"	1 7/16"	3 7/16"	26 7/16" x 2'-9"	52" F-SHAPE BARRIER	
6	9"	36"	8.8"	9 1/4"	11 3/4"	10 1/16"	1 7/16"	7 7/16"	30 7/16" x 2'-9"	32" F-SHAPE PIN & LOOP	
7	6 1/4"	46"	8.3"	6 1/2"	9 1/8"	10 1/16"	1 7/16"	4 3/4"	27 3/4" x 2'-9"	42" F-SHAPE PIN & LOOP	
8	5"	54"	8.9"	5 1/4"	7 3/4"	10 1/16"	1 7/16"	3 7/16"	26 7/16" x 2'-9"	50" F-SHAPE PIN & LOOP	



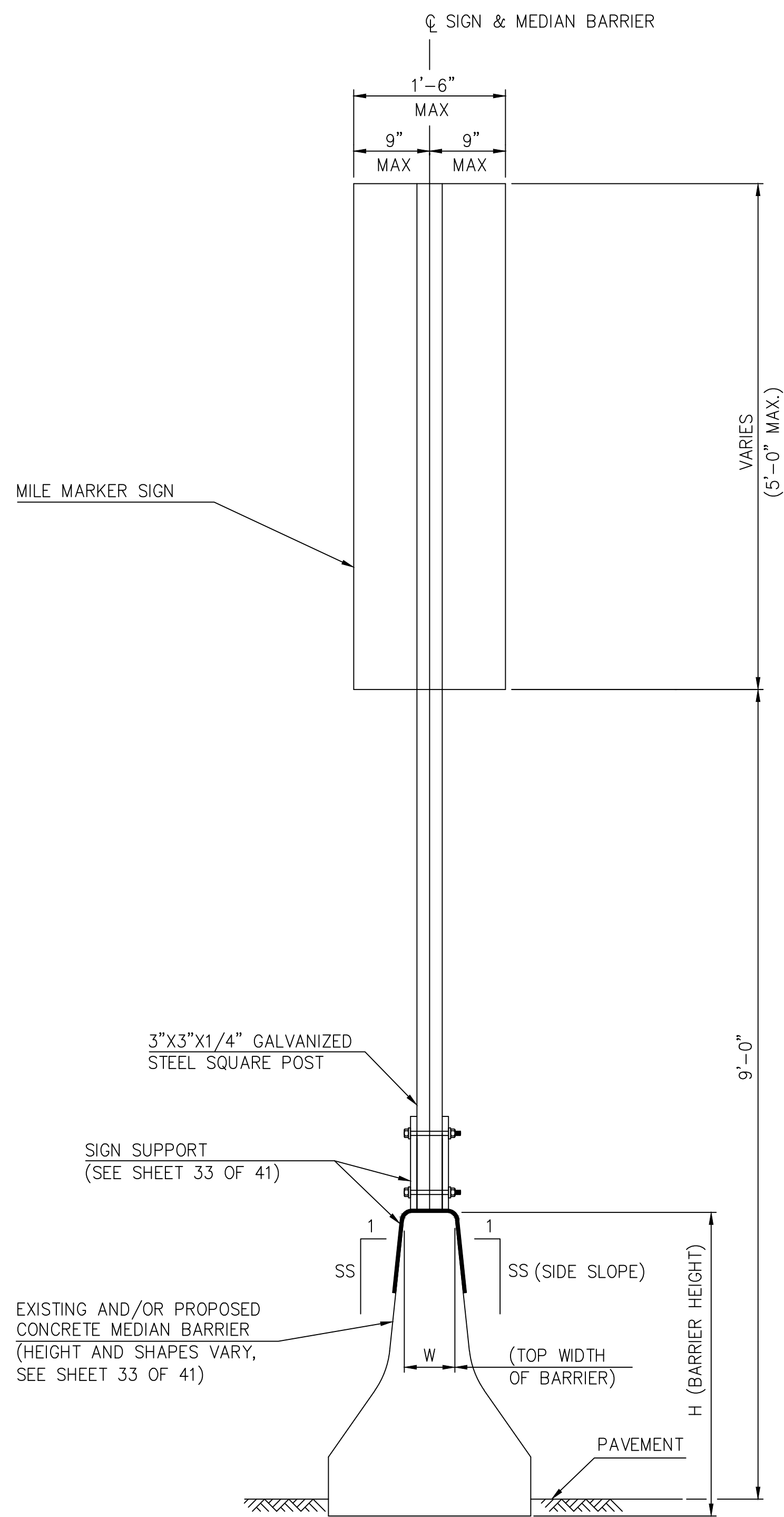
RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
 INSTALLATION OF
 MEDIAN BARRIER SUPPORT FOR SIGNS

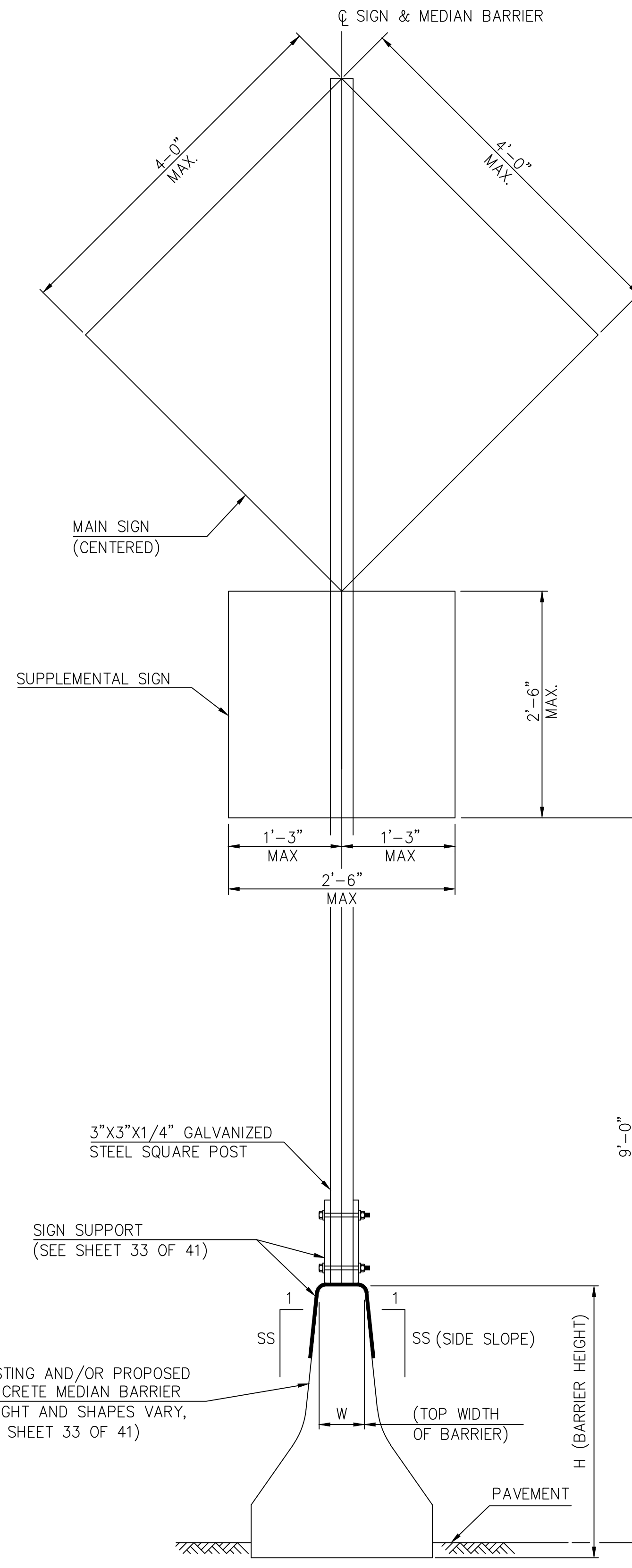
PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-33.dwg
 DRAWING TYPE: 5A
 SHEET 33 OF 41

DATE: APRIL 2024
 PTS-980

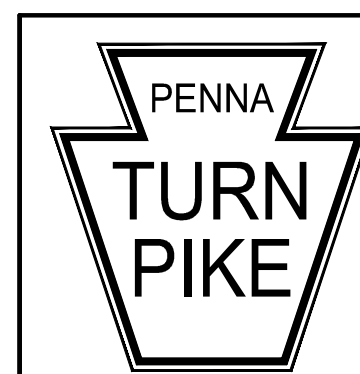


MEDIAN MILE MARKER SIGNS
MAX SIGN AREA = 7.55 SF



PERMANENT MEDIAN SIGNS
MAX SIGN AREA = 22.25 SF

NOTES:
1. FOR NOTES, SEE SHEET 33 OF 41.



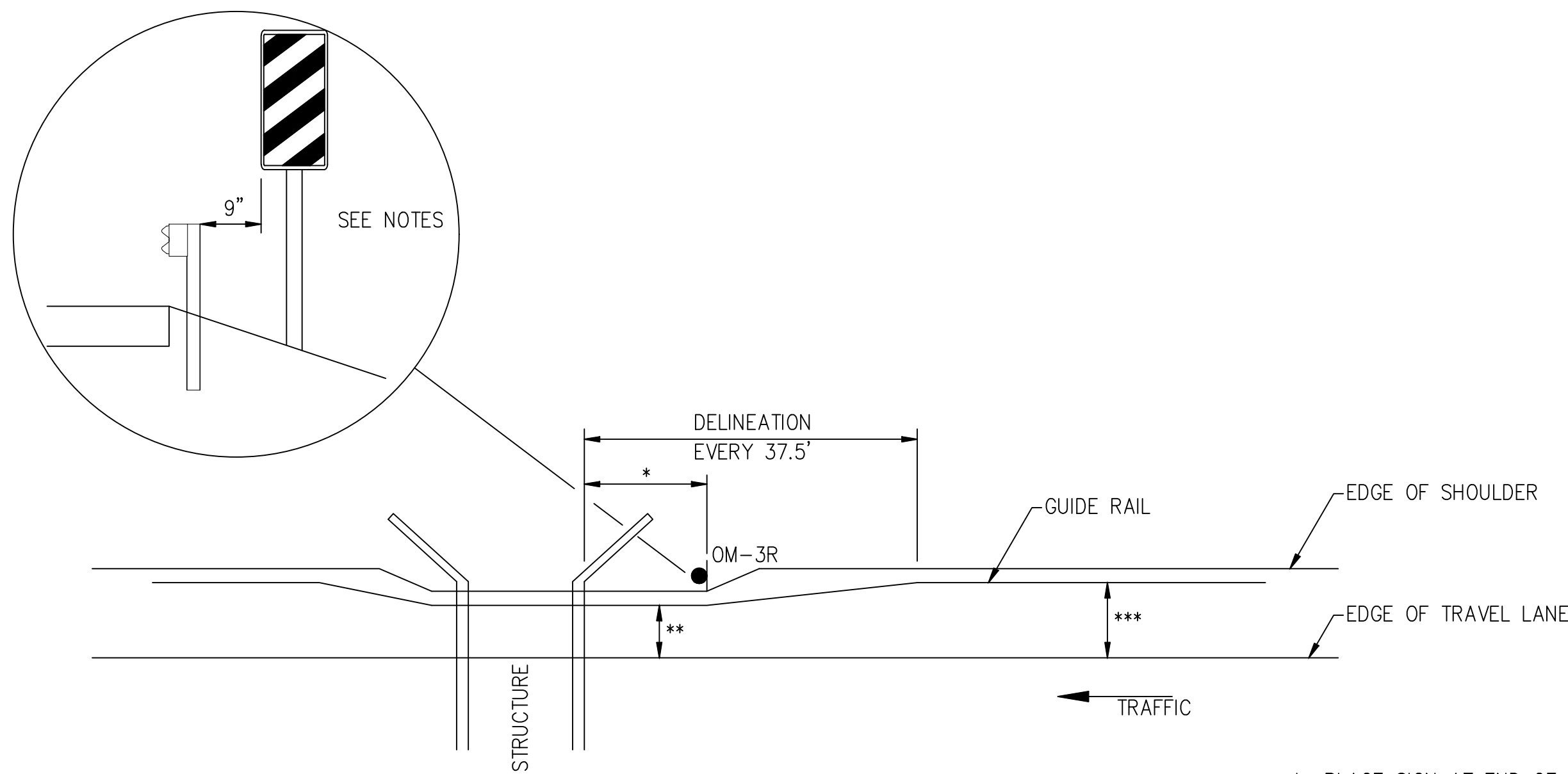
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ASSISTANT CHIEF ENGINEER - DESIGN
APPROVED: MAY 3, 2024
[Signature]
CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
INSTALLATION OF
MEDIAN BARRIER SUPPORT FOR SIGNS

PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

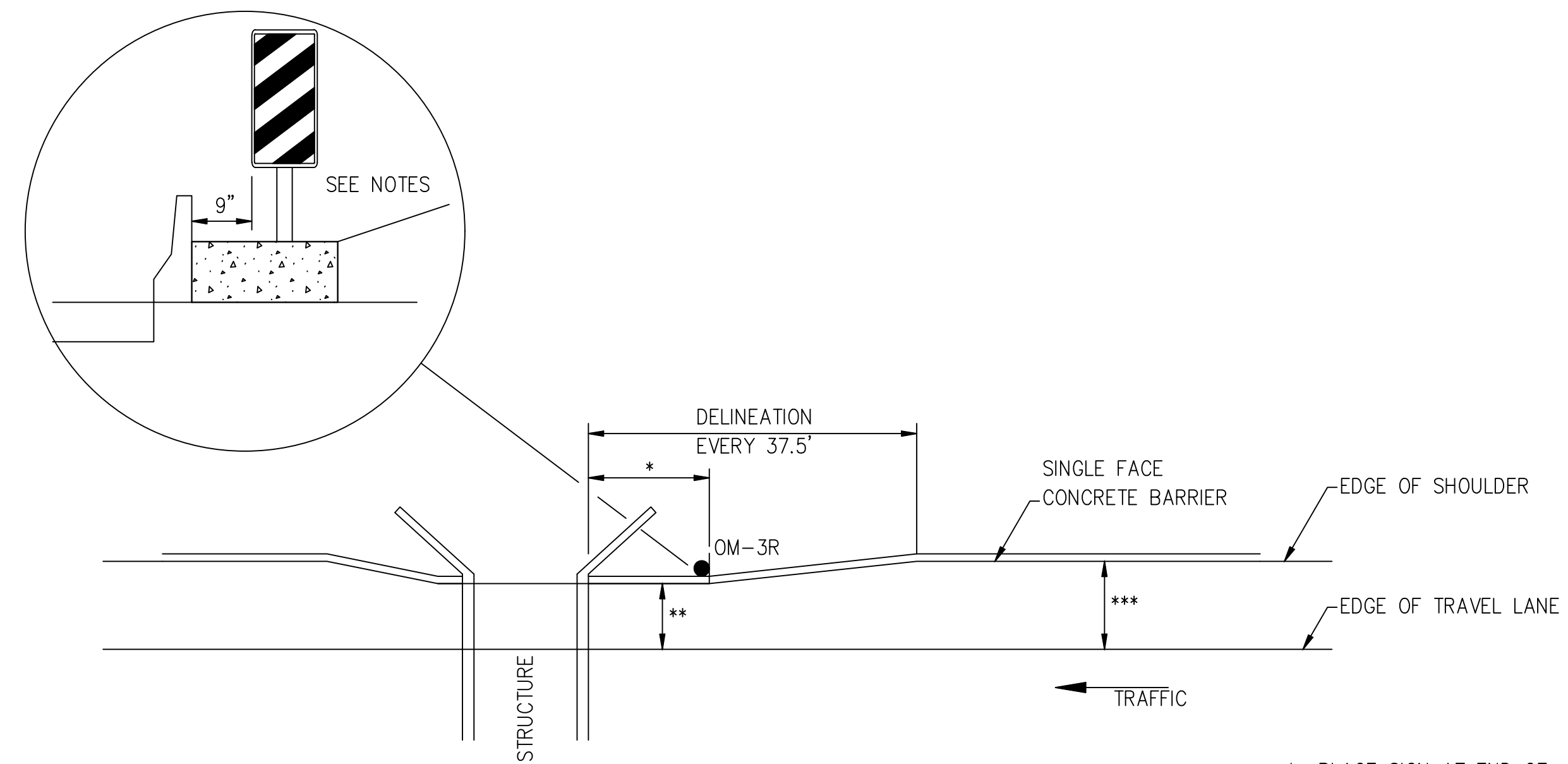
FILE NAME: PTS-980-34.dwg
DRAWING TYPE: 5A
SHEET 34 OF 41

DATE: APRIL 2024
PTS-980



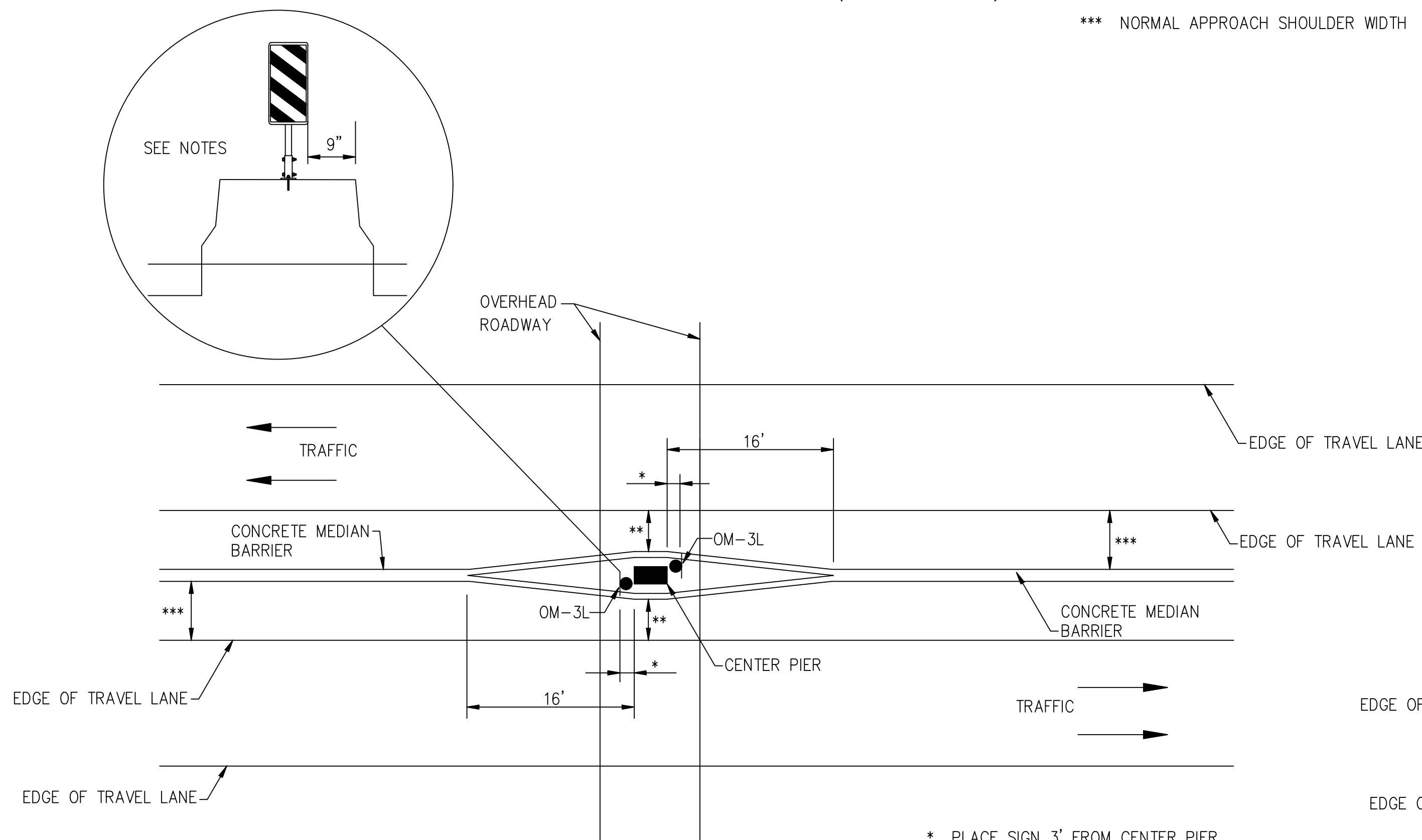
NARROW SHOULDER DELINEATION (GUIDE RAIL)

- * PLACE SIGN AT END OF TAPER (50' TYP)
- ** LESS THAN NORMAL APPROACH SHOULDER WIDTH
- *** NORMAL APPROACH SHOULDER WIDTH



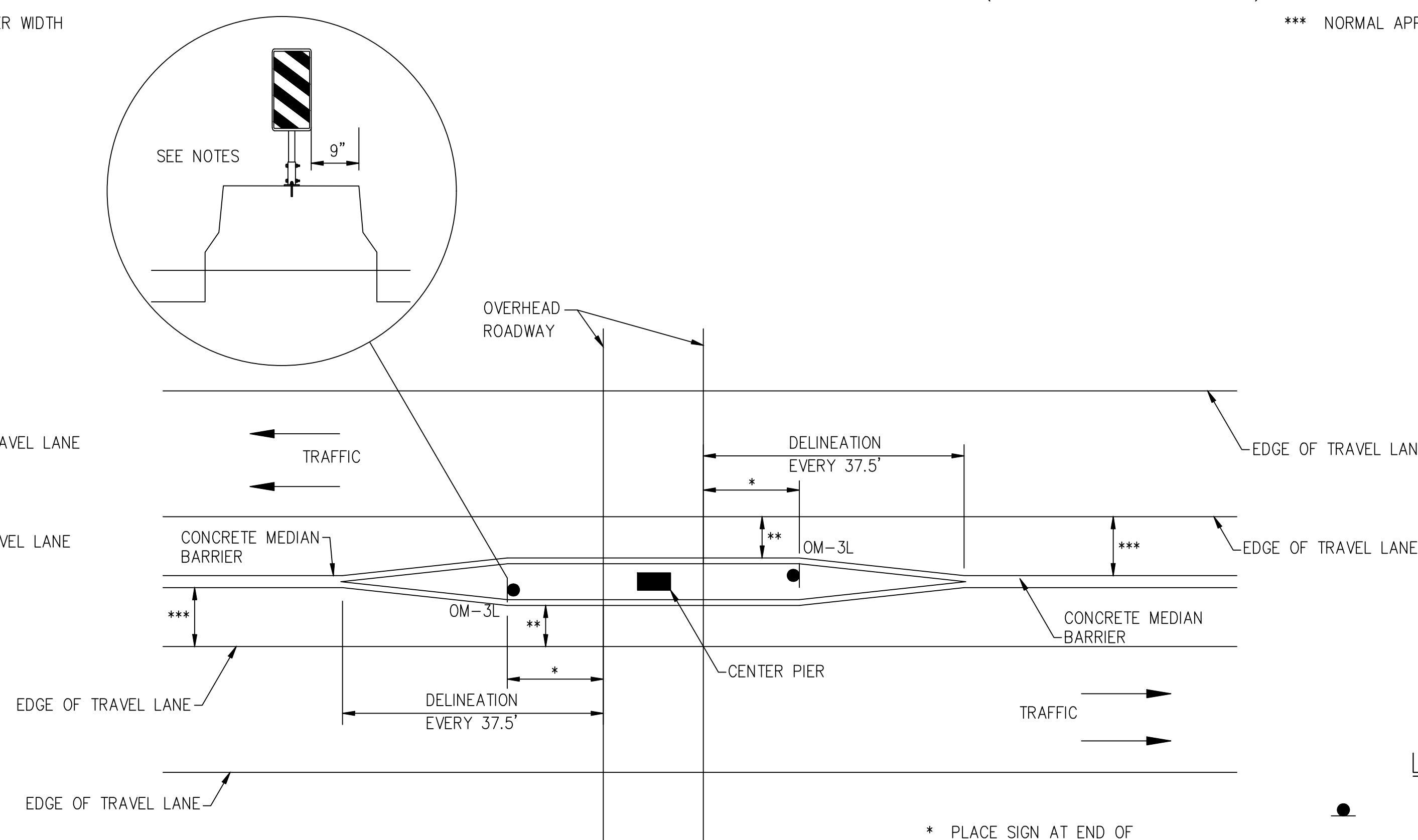
NARROW SHOULDER DELINEATION (CONCRETE BARRIER)

- * PLACE SIGN AT END OF TAPER (6' TO 50' TYP)
- ** LESS THAN NORMAL APPROACH SHOULDER WIDTH
- *** NORMAL APPROACH SHOULDER WIDTH



NARROW MEDIAN DELINEATION (PIER TRANSITION PIECE)

- * PLACE SIGN 3' FROM CENTER PIER
- ** LESS THAN NORMAL APPROACH SHOULDER WIDTH
- *** NORMAL APPROACH SHOULDER WIDTH



NARROW MEDIAN DELINEATION (CONCRETE MEDIAN BARRIER)

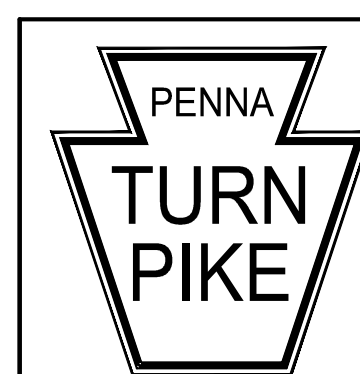
- * PLACE SIGN AT END OF TAPER (6' TO 50' TYP)
- ** LESS THAN NORMAL APPROACH SHOULDER WIDTH
- *** NORMAL APPROACH SHOULDER WIDTH

LEGEND

- SIGN & SUPPORT
- GUIDE RAIL
- CONCRETE BARRIER (MEDIAN OR SINGLE FACE)
- TRAFFIC FLOW
- NO 57 COARSE AGGREGATE

NOTES:

- 1) MOUNT BOTTOM OF SIGN 18" FROM TOP OF GUIDE RAIL TO BOTTOM OF THE SIGN, 15" FROM TOP OF 32" CONCRETE BARRIER TO BOTTOM OF THE SIGN, 13" FROM TOP OF 34" CONCRETE BARRIER TO BOTTOM OF THE SIGN, 11" FROM TOP OF 42" CONCRETE BARRIER TO BOTTOM OF THE SIGN, 10" FROM TOP OF 48" CONCRETE BARRIER TO BOTTOM OF THE SIGN, 8" FROM TOP OF 50" CONCRETE BARRIER TO BOTTOM OF THE SIGN, 6" FROM TOP OF 52" CONCRETE BARRIER TO BOTTOM OF THE SIGN.
- 2) FOR BARRIER MOUNTING, UTILIZE RETAINING WALL/SINGLE FACE BARRIER MOUNTING DETAIL, SEE SHEET 30 OF 41.
- 3) OFFSET FROM GUIDE RAIL MAY BE FIELD ADJUSTED IF REQUIRED PLACEMENT IS IN CONFLICT WITH FIBER-OPTIC LINE.

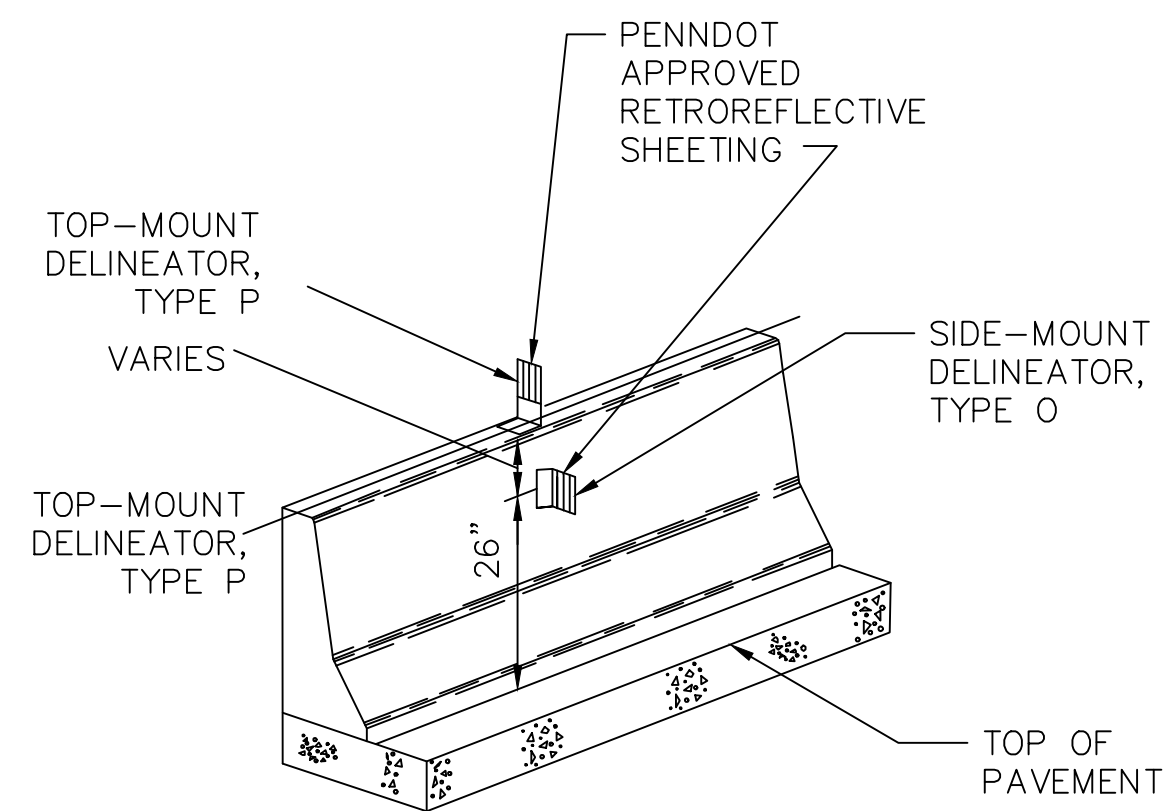


RECOMMENDED: MAY 3, 2024
Chris V. ...
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
 CLEARANCE MARKER (OM-3R AND OM-3L)
 LOCATION INSTALLATION DETAILS

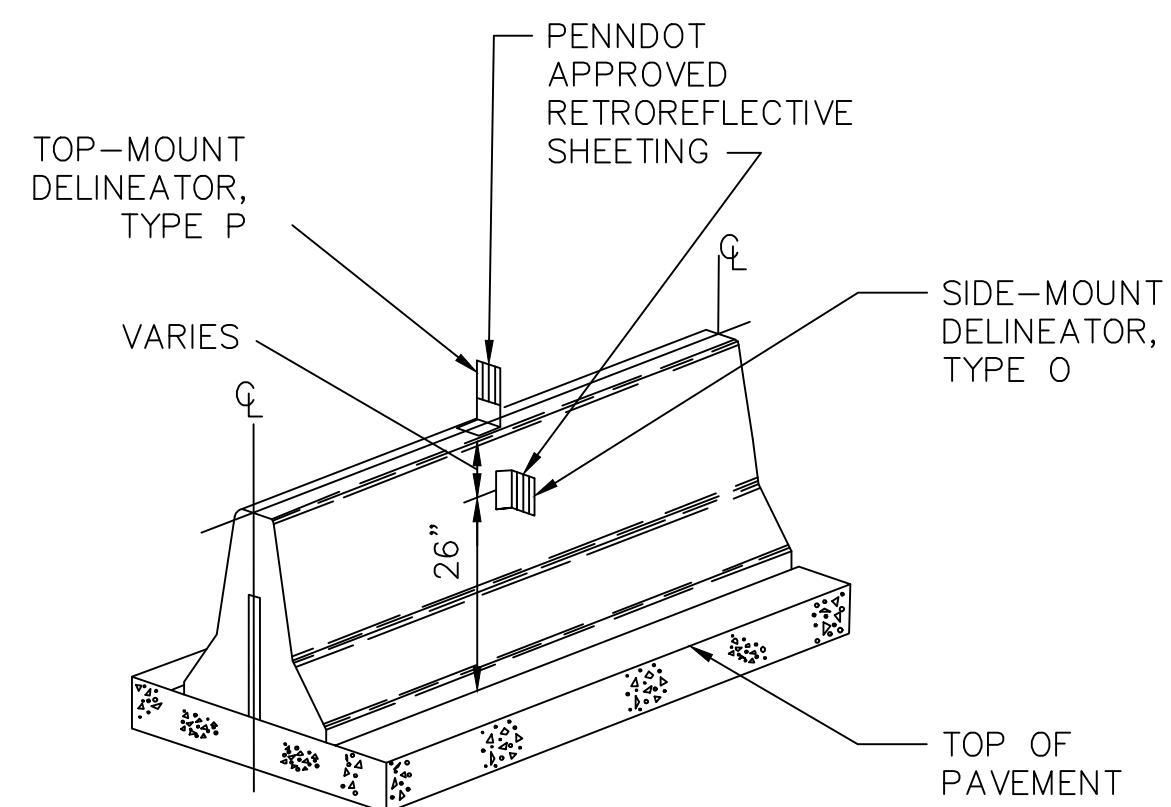
PENNSYLVANIA TURNPIKE COMMISSION
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FILE NAME: PTS-980-35.dwg SHEET 35 OF 41
 DRAWING TYPE: 5A
 DATE: APRIL 2024 PTS-980



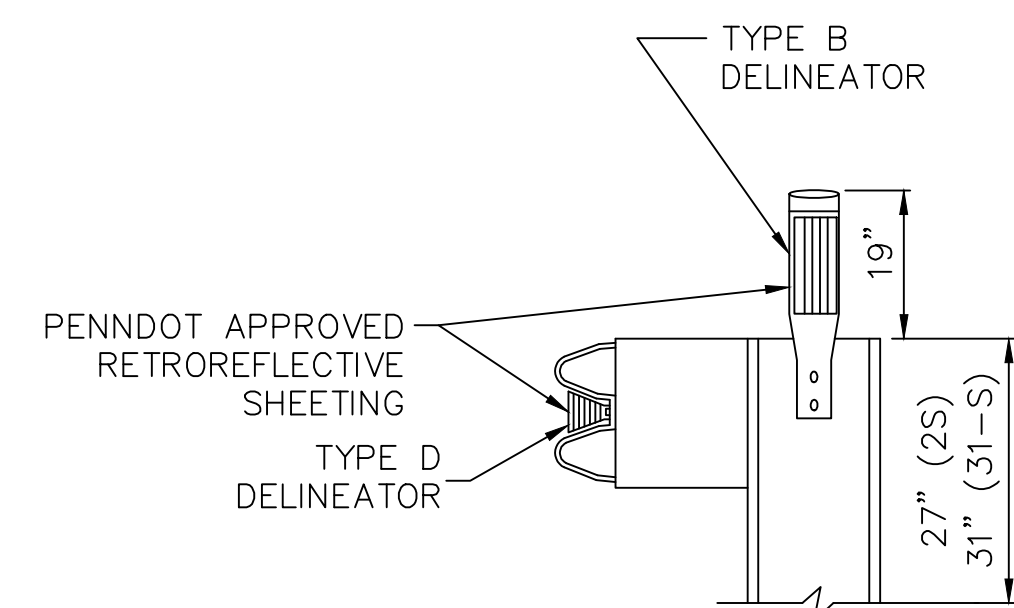
DETAIL A

SINGLE FACE CONCRETE BARRIER ALONG ROCK CUT,
SOUND BARRIERS, RETAINING WALLS,
OR ROCK FALL FENCE



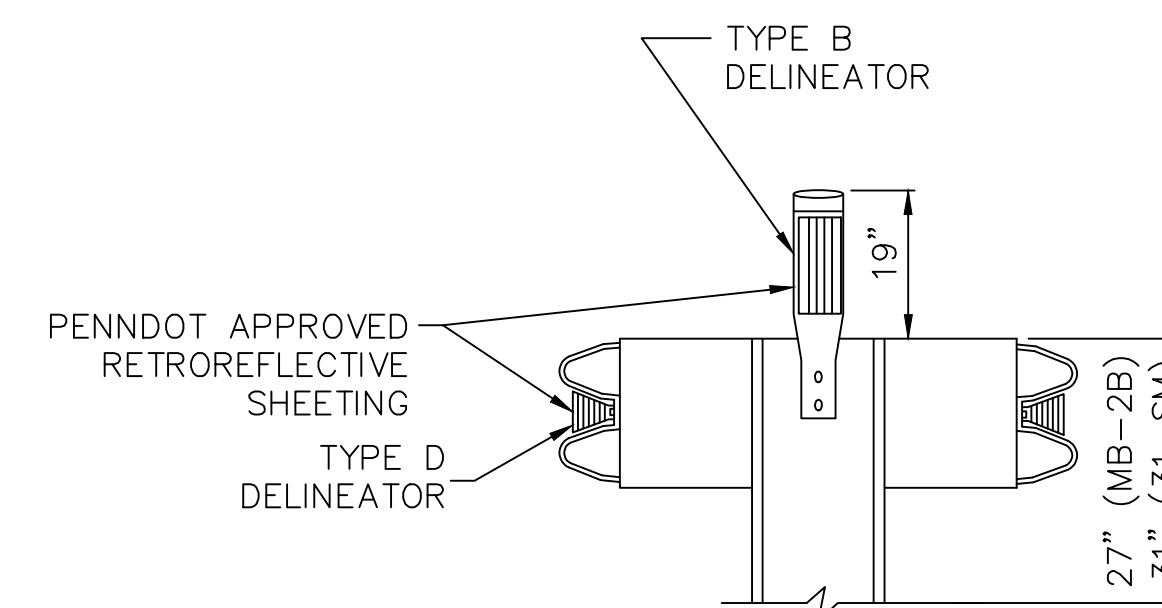
DETAIL B

CONCRETE MEDIAN BARRIER



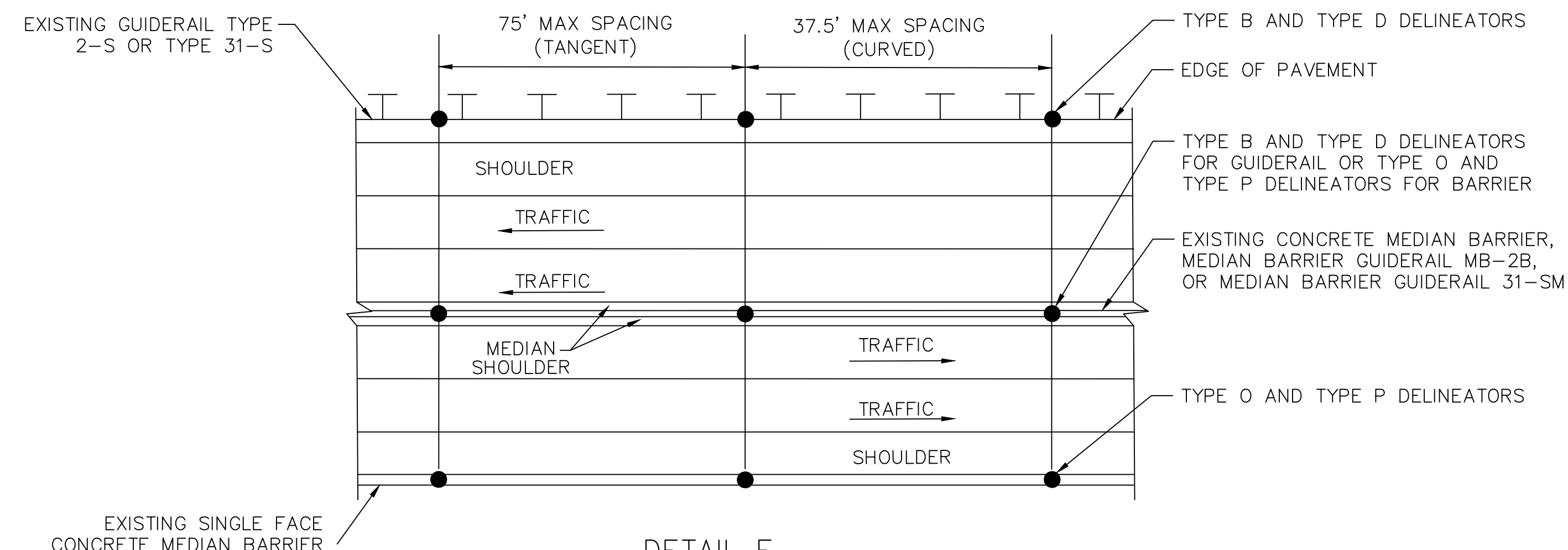
DETAIL C

GUIDERAIL - 2-S OR 31-S



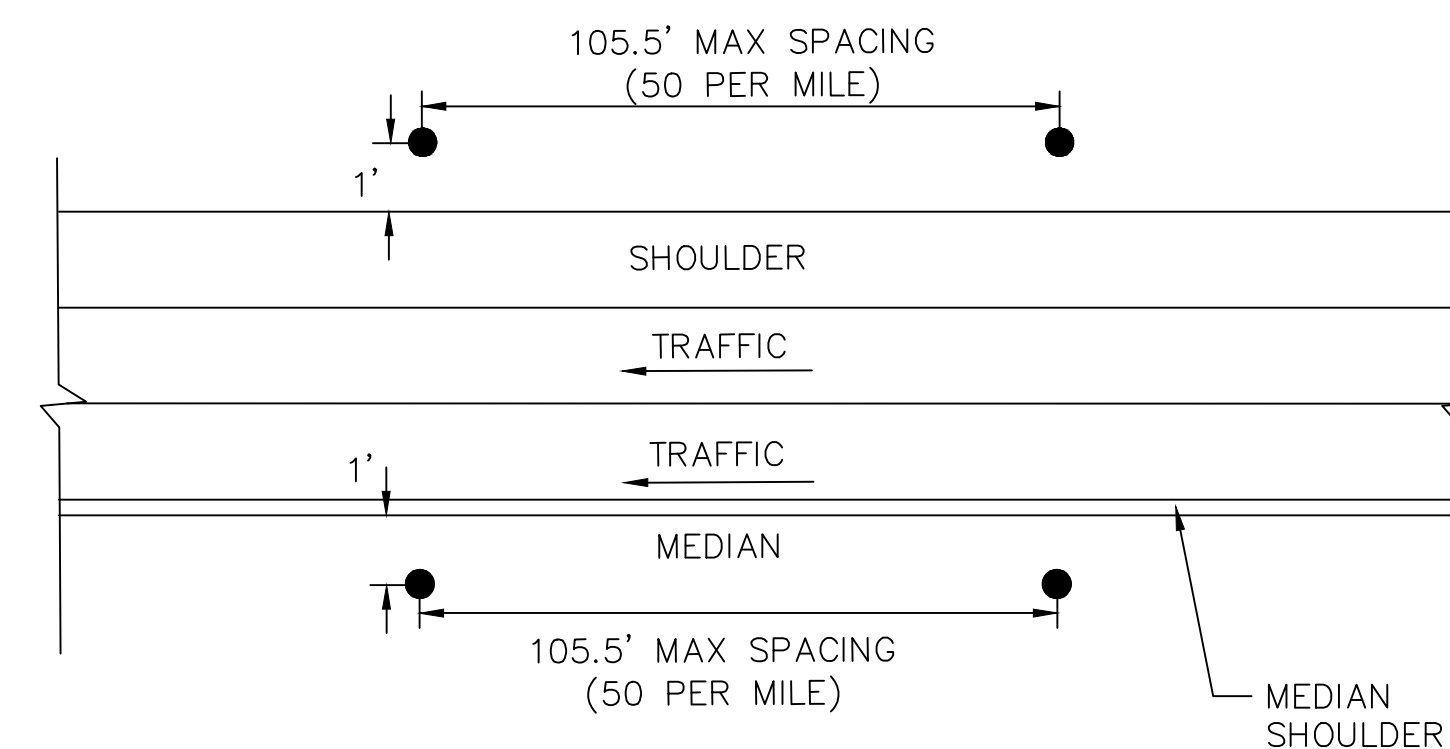
DETAIL D

GUIDERAIL MB-2B OR 31-SM



DETAIL E

DELINEATOR SPACING - CONCRETE BARRIER OR GUIDERAIL

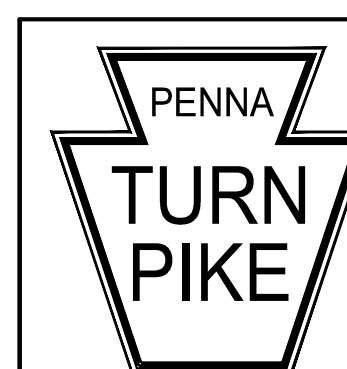


DETAIL F

NO GUIDERAIL - FLEXPOST SPACING

NOTES:

- FOR BARRIER AND GUIDERAIL ALONG THE RIGHT SHOULDER, INSTALL WHITE TOP-MOUNT DELINEATORS ALONG THE LONGITUDINAL CENTERLINE.
- FOR BARRIER AND GUIDERAIL ALONG THE LEFT SHOULDER AND MEDIAN, INSTALL YELLOW TOP-MOUNT DELINEATORS ALONG THE LONGITUDINAL CENTERLINE.
- FOR BARRIER OR GUIDERAIL, PLACE DELINEATORS AT A LONGITUDINAL SPACING FOR THE FOLLOWING SECTIONS:
A. TANGENT SECTIONS - 72 FEET MINIMUM/75 FEET MAXIMUM, OR EVERY SIXTH BARRIER / GUIDERAIL PANEL.
B. CURVED SECTIONS - 36 FEET MINIMUM/37.5 FEET MAXIMUM, OR EVERY THIRD BARRIER / GUIDERAIL PANEL.
- IN THE ABSENCE OF BARRIER AND GUIDERAIL, INSTALL WHITE FLEXPOST DELINEATORS FOR RIGHT SHOULDER APPLICATIONS, AND YELLOW FLEXPOST DELINEATORS FOR MEDIAN AND LEFT SHOULDER APPLICATIONS.
- INSTALL ONE (1) FLEX POST DELINEATOR AT THE BEGINNING OF THE WIDE AREA AND AT THE END OF THE WIDE AREA. THERE IS TO BE NO DELINEATION ALONG THE BACK OF THE WIDE AREA FOR SHOULDER APPLICATIONS.
- MAXIMUM FLEX POST DELINEATOR SPACING AS SHOWN IN DETAIL F. FACE DELINEATORS TO ONCOMING TRAFFIC. POSTS TO BE PLACED APPROXIMATELY 1 FOOT BEHIND OUTER EDGE OF PAVED SHOULDER.
- ELIMINATE FLEX POST DELINEATOR IF MILE MARKER OR TENTH/MILE MARKER IS WITHIN 25 FEET.
- ALL RED FLEXIBLE MARKERS USED TO IDENTIFY DRAINAGE STRUCTURES ARE NOT TO HAVE PENNDOT APPROVED RETROREFLECTIVE SHEETING.



RECOMMENDED: MAY 3, 2024

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: MAY 3, 2024

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
SHOULDER DELINEATION

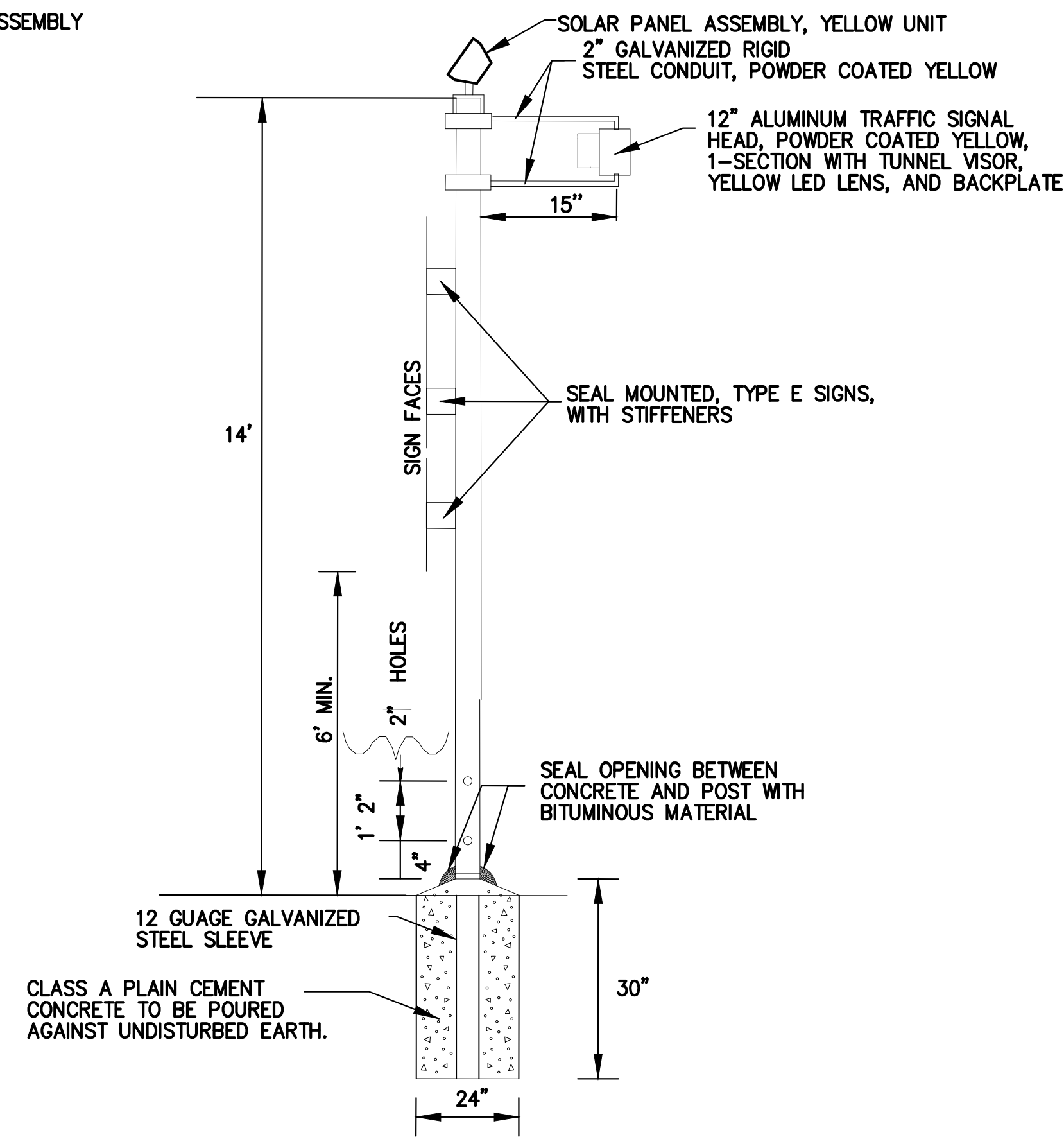
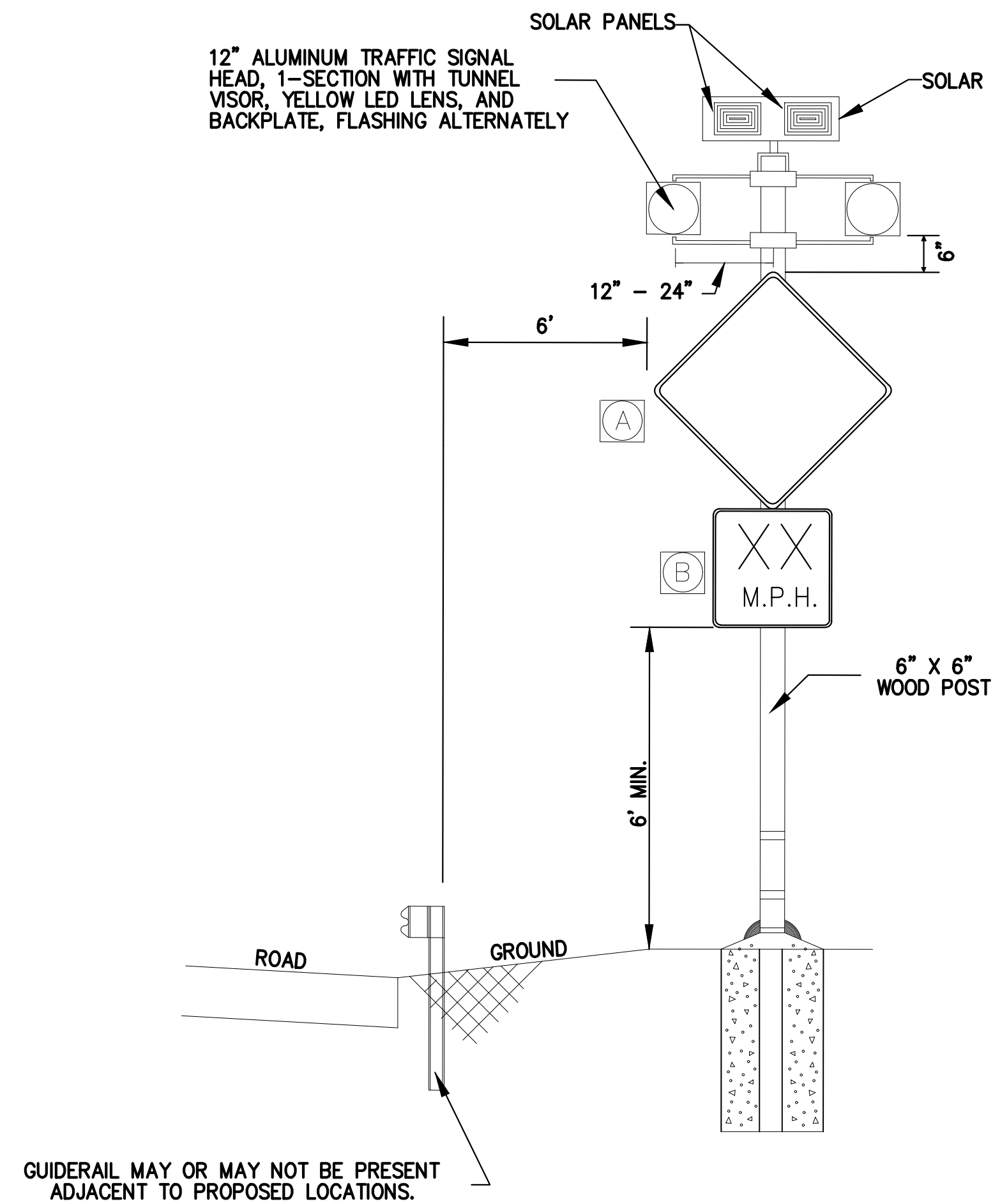
PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

FILE NAME: PTS-980-37.dwg
DRAWING TYPE: 5A

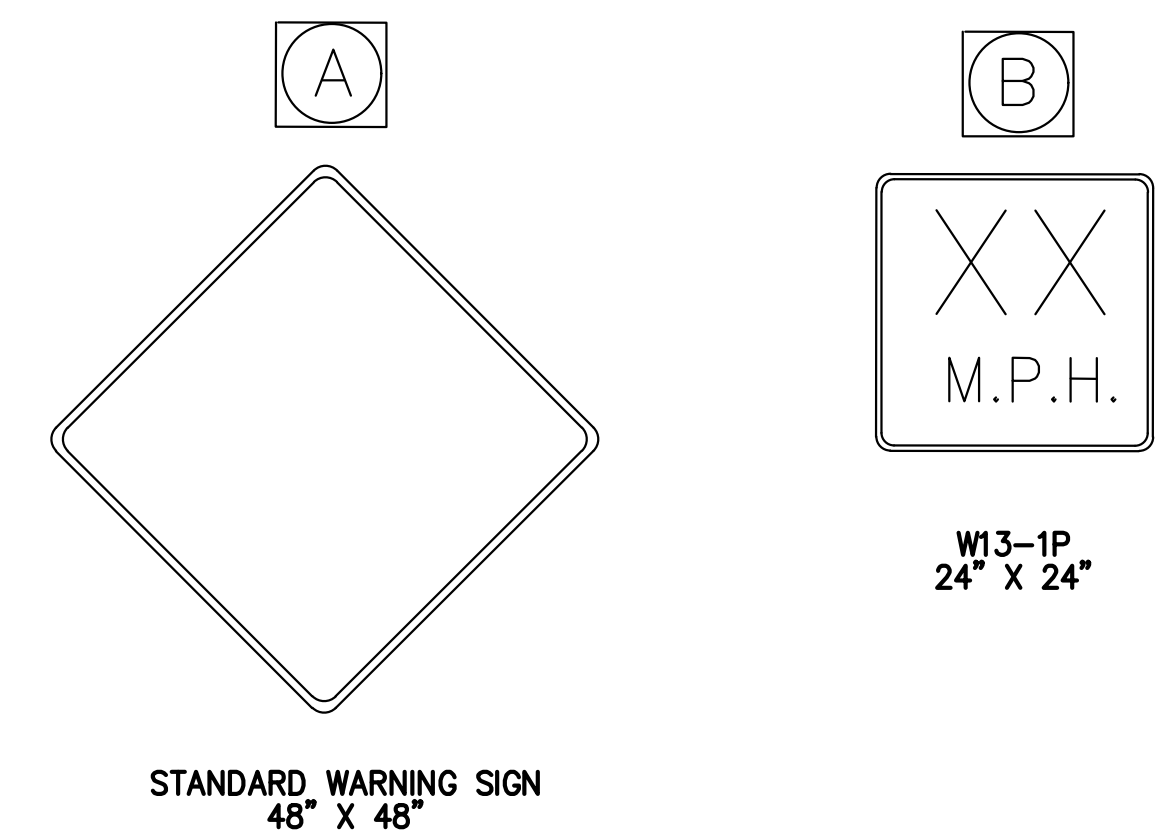
SHEET 37 OF 41

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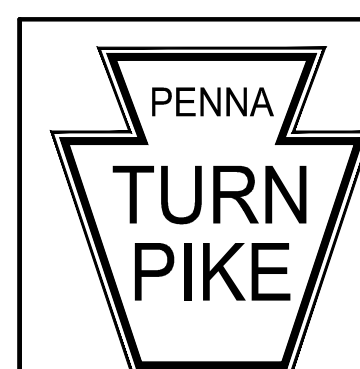


SIGN DETAILS
N.T.S.



NOTES:

1. FOR FLAT SHEET ALUMINUM SIGNS WITH STIFFENERS SEE TC-8701S.
2. SPEED LIMIT FOR SIGN B, W13-1P, TO BE AS DIRECTED BY THE REPRESENTATIVE.

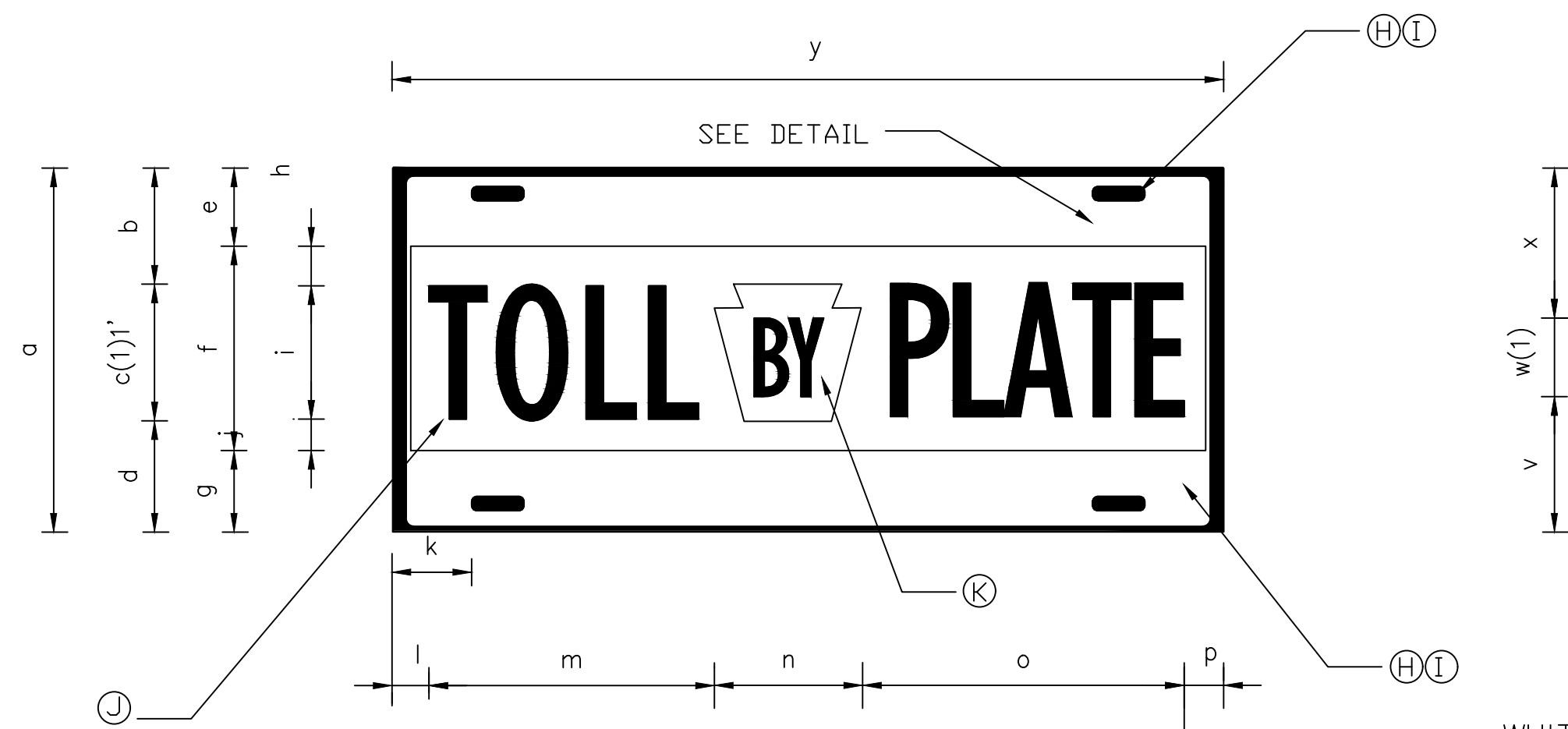


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
 SOLAR POWERED FLASHING
 WARNING DEVICE DETAIL

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-38.dwg	SHEET 38 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



FONT:
(1) khmerUlb

	a	b	c	d	e	f	g	h	PA SHIELD i	j	k	l	m	PA SHIELD n	o
18"	18	5.63	6.56	5.81	3.98	10.05	3.97	1.73	6.82	1.5	3.83	2.4	13.17	7.24	16.23
24"	24	7.5	8.75	7.75	5.3	13.4	5.3	2.4	9	2	5.1	3.2	17.56	9.65	21.64
36"	36	11.25	13.13	11.62	7.95	20.1	7.95	3.6	13.5	3	13.5	4.8	26.34	14.48	32.46

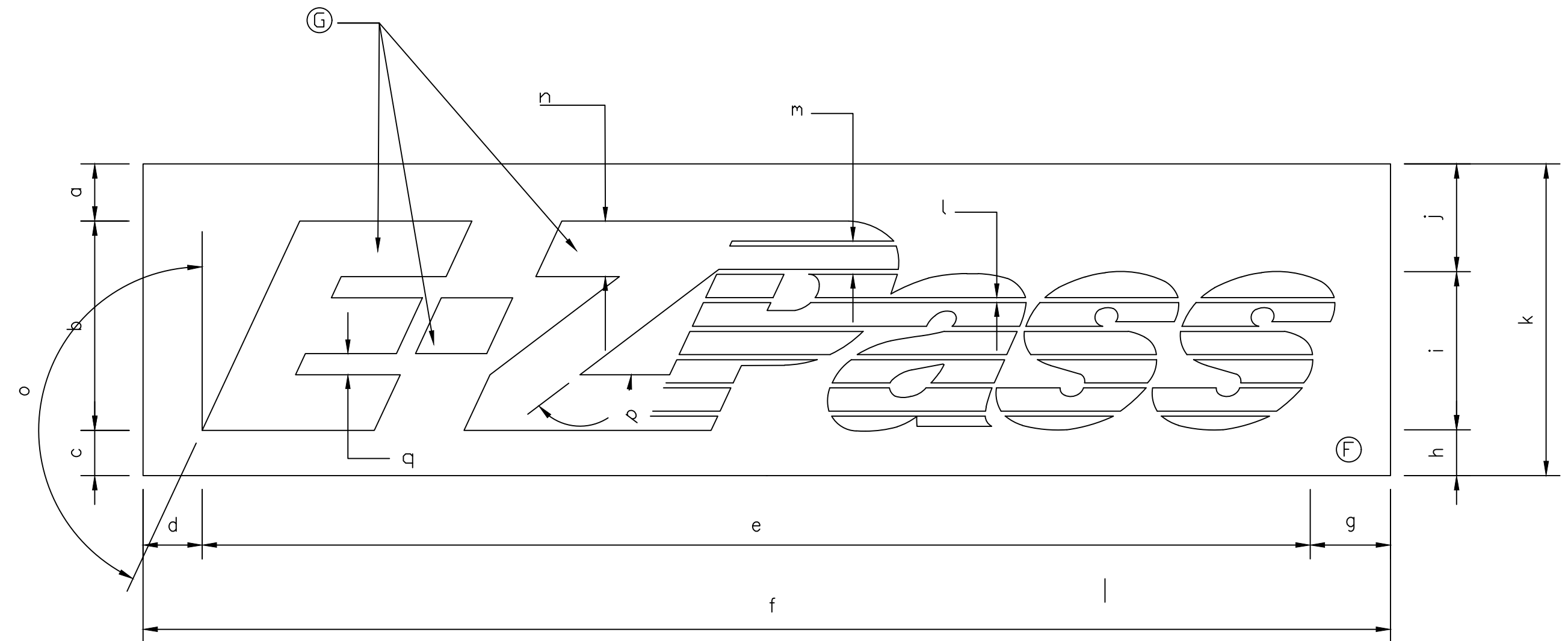
	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff
18"	2.1	0.75	2.4	11.47	2.4	0.98	6.45	3.90	7.65	41.14	0.27	2.6	0.71	0.47	0.65	0.47	0.22
24"	2.8	1	3.2	15.3	3.2	1.3	8.6	5.2	10.2	54.85	0.36	3.47	0.94	0.63	0.86	0.62	0.29
36"	4.2	1.5	4.8	22.95	4.8	1.95	12.9	7.8	15.30	82.28	0.54	5.21	1.41	0.95	1.29	0.93	0.44

- Ⓜ PURPLE TYPE XI REFLECTORIZED BACKGROUND, PANTONE 259C.
- Ⓛ WHITE TYPE XI REFLECTORIZED LEGEND.
- Ⓜ WHITE TYPE XI REFLECTORIZED BACKGROUND.
- Ⓚ PURPLE TYPE XI REFLECTORIZED BACKGROUND WITH WHITE TYPE XI REFLECTORIZED LEGEND.
- * TOLL AND PLATE LEGEND, PANTONE 342

TOLL BY PLATE
DETAIL

WHITE BORDER TO
PURPLE PLATE OUTLINE

TOP = cc
LEFT = dd
RIGHT = ee
BOTTOM = ff

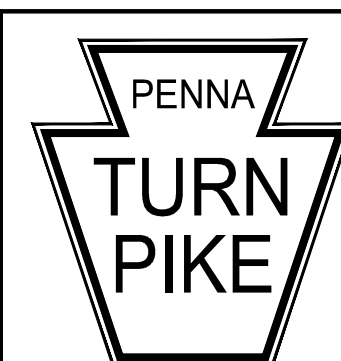


	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
12"	2.2	8	1.8	2.2	43.8	48.2	2.2	1.8	6	4.2	12	0.2	0.9	2.2	25?	37?	0.8
18"	3.3	12	2.7	3.3	65.4	72.0	3.3	2.6	9	6.4	18	0.29	1.4	3.2	25?	37?	1.2
24"	4.4	16	3.6	4.4	87.2	96.0	4.4	3.5	12	8.5	24	0.39	1.8	4.3	25?	37?	1.6
36"	6.6	24	5.4	6.6	130.8	144	6.6	5.3	18	12.7	36	0.59	2.7	6.5	25?	37?	2.4

Ⓜ PURPLE TYPE XI REFLECTORIZED BACKGROUND, PANTONE 259C.

Ⓛ WHITE TYPE XI REFLECTORIZED LEGEND.

E-ZPASS DETAIL

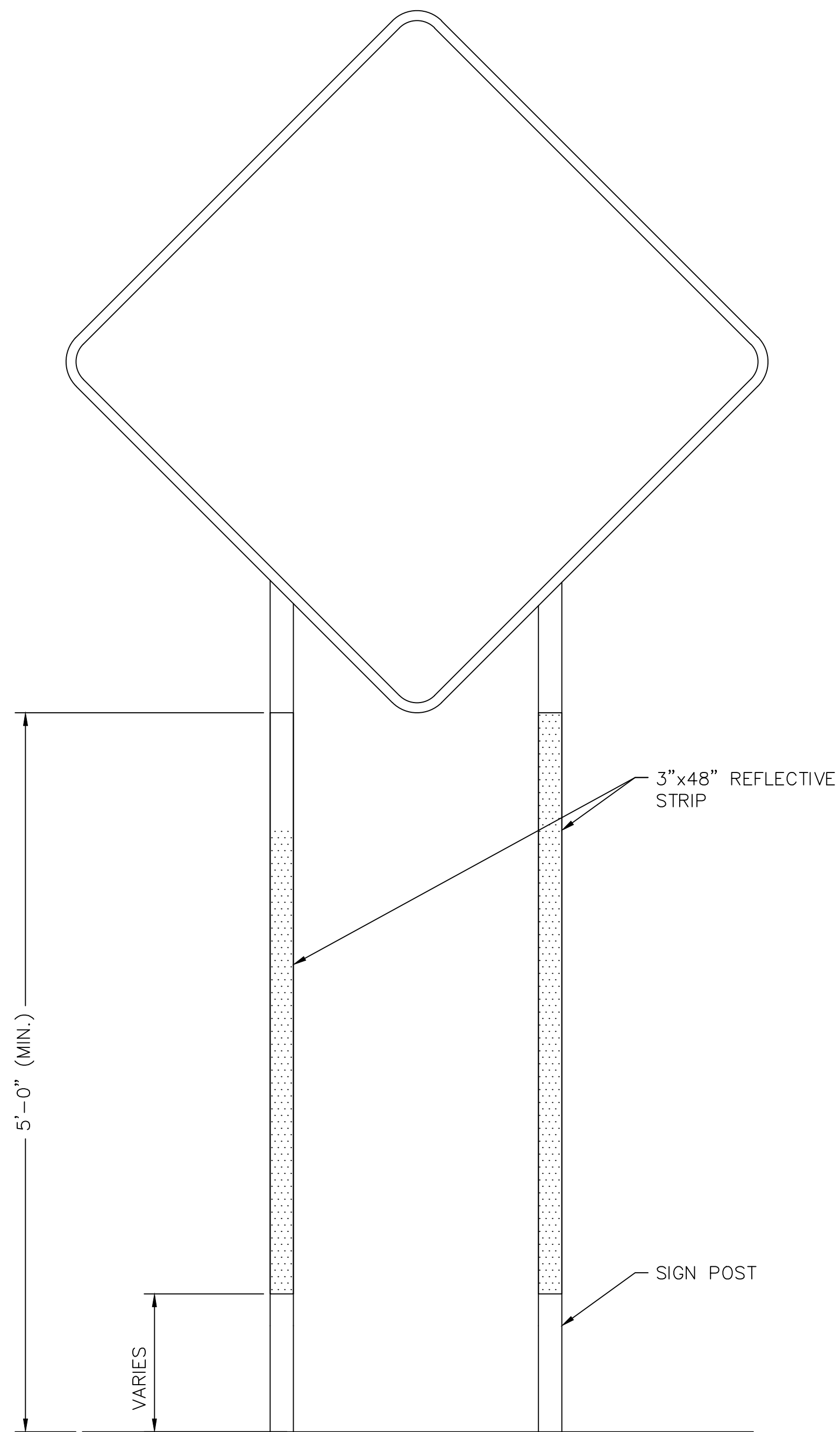


RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

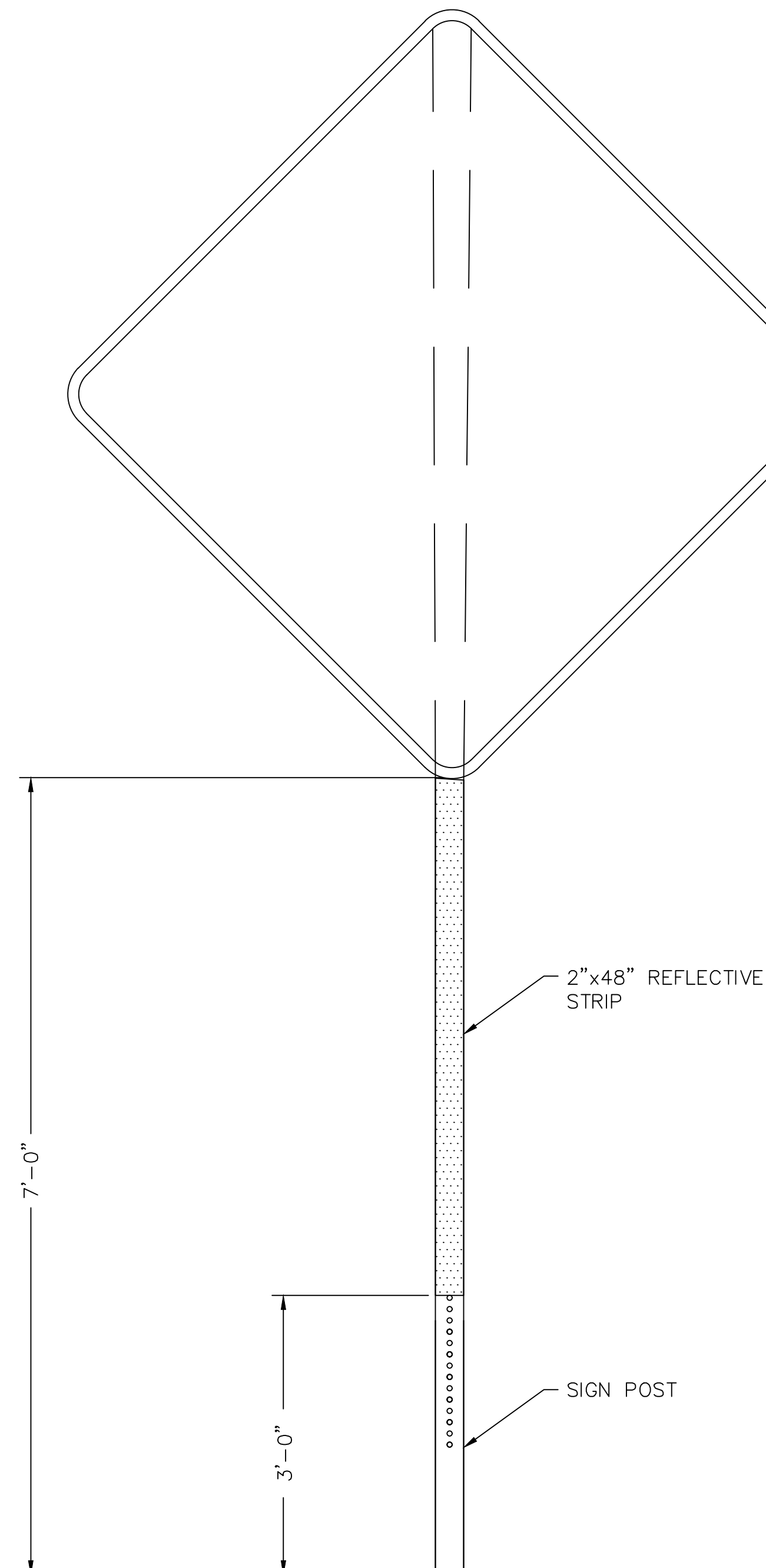
CONSTRUCTION AND MAINTENANCE
E-ZPASS AND TOLL BY PLATE DETAILS

PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

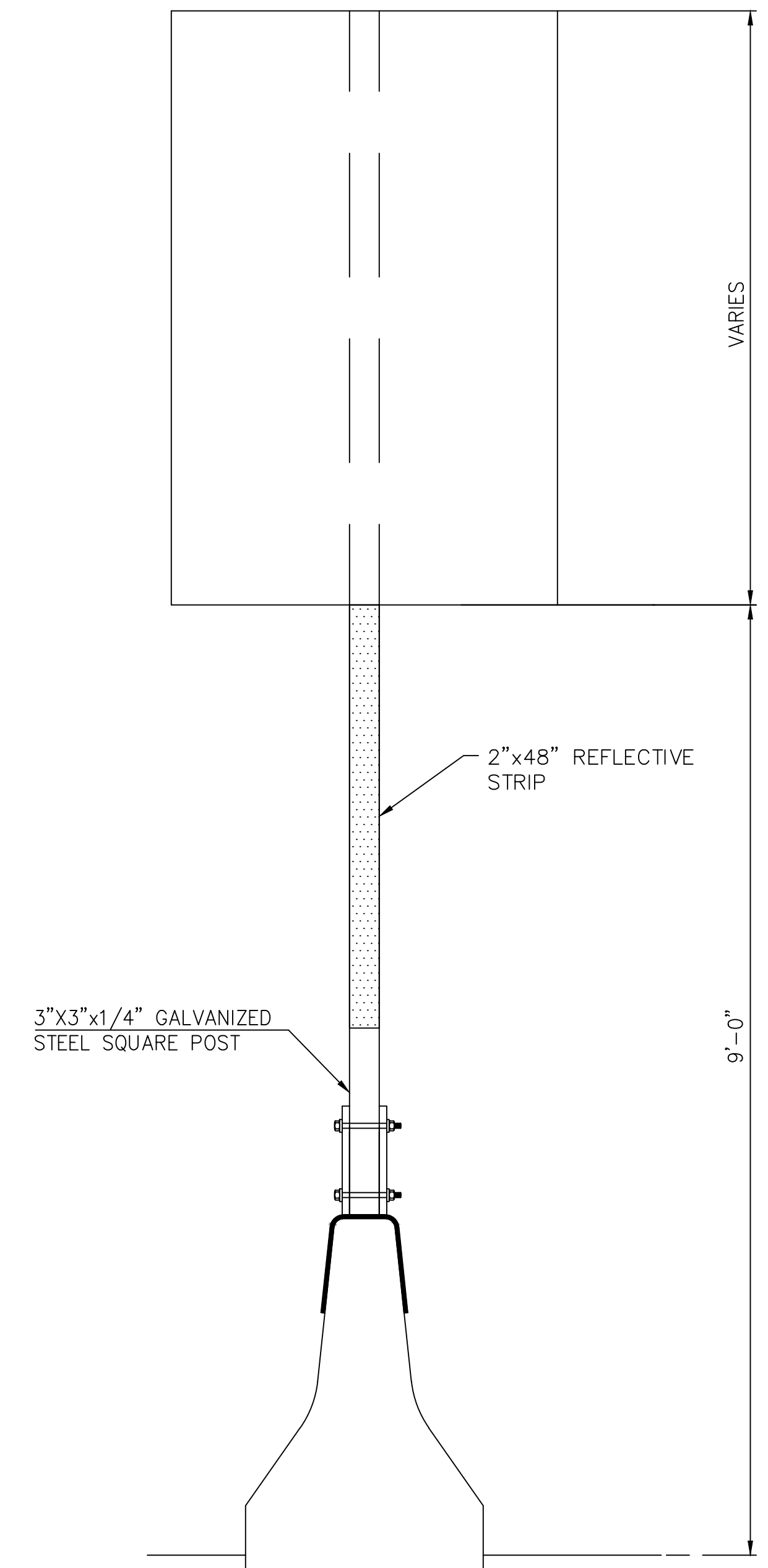
FILE NAME: PTS-980-39.dwg	SHEET 39 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980



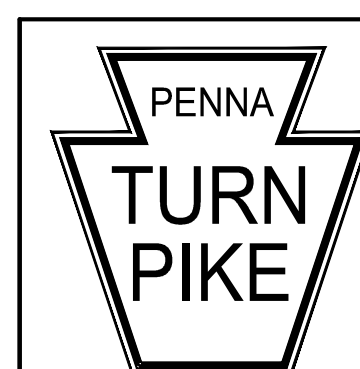
TYPE C WOOD CENTER POST



TYPE B SQUARE STEEL POST



TYPE M MEDIAN SIGN ON A SADDLE BRACKET



RECOMMENDED: MAY 3, 2024

[Signature]

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: MAY 3, 2024

[Signature]

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE
RETROREFLECTIVE STRIP ON POST DETAIL

PENNSYLVANIA TURNPIKE COMMISSION
STANDARD DRAWING

FILE NAME: PTS-980-40.dwg
DRAWING TYPE: 5A

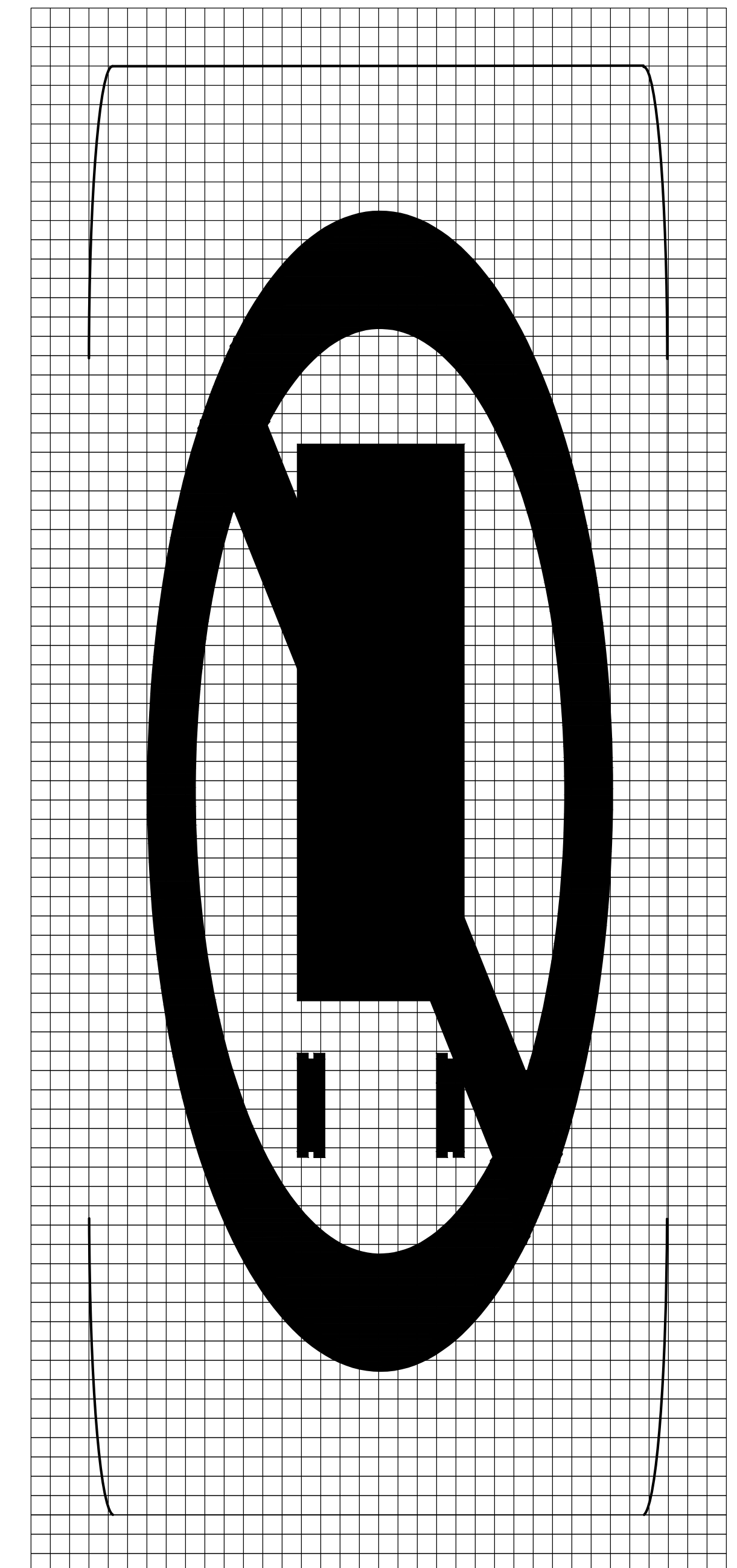
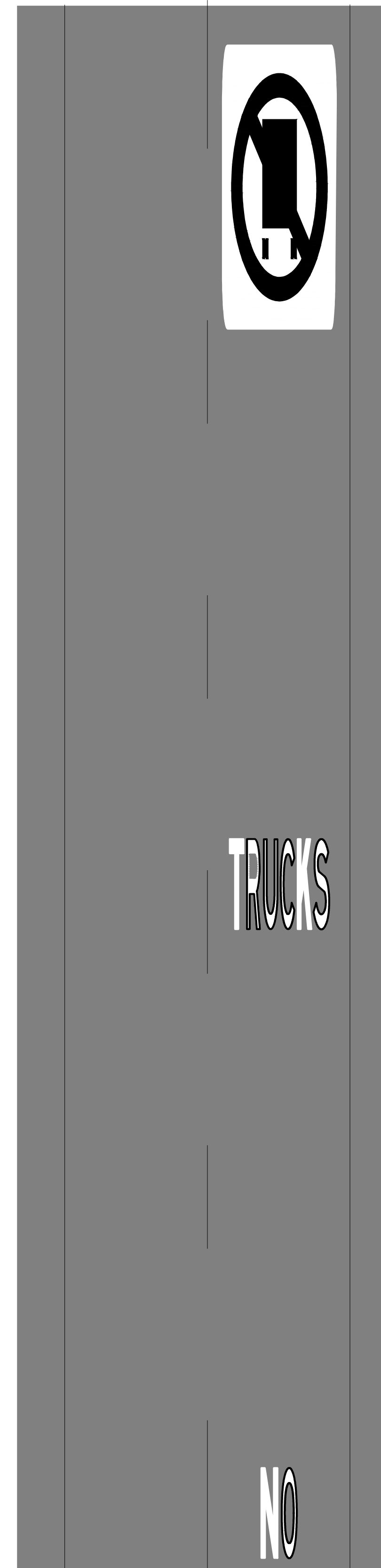
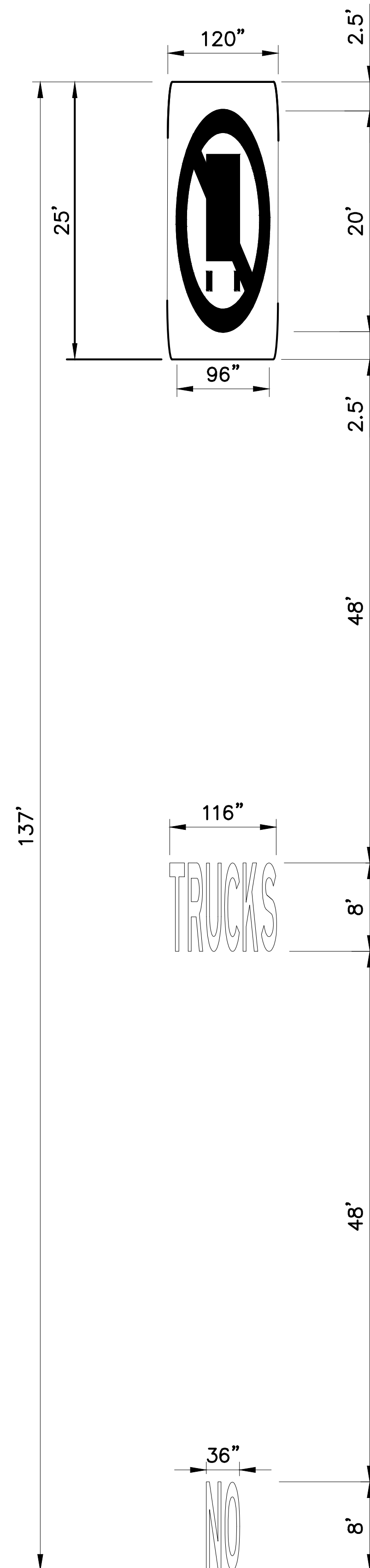
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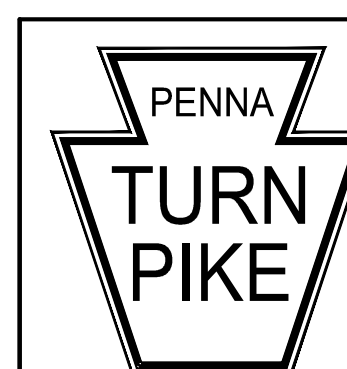
PTS-980

NOTES:

1. REFER TO PENNDOT PUB 111, TC-8600 FOR STANDARD PAVEMENT MARKINGS ALPHABET.
2. STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
3. FOR 8' HIGH CHARACTERS, THE WIDTH IS 16" (USE 4" FOR EACH GRID SQUARE).
4. SPACE 1 UNIT BETWEEN CHARACTERS.
5. WHEN TRAFFIC IS SHIFTED TO THE OUTSIDE SHOULDER AND TRUCKS AND BUSES ARE RESTRICTED TO THE LEFT LANE, SURFACE APPLIED THERMOPLASTIC PTC-TBP PAVEMENT MARKING LEGENDS ARE TO BE INSTALLED IN THE RIGHT TRAVEL LANE 500' AFTER THE END OF LANE TRANSITION AT THE START OF THE PROJECT AS WELL AS ONE AT THE MIDPOINT OF THE WORK ZONE.



COLOR:
 SYMBOL:
 TRUCK: BLACK (NON-REFLECTORIZED)
 CIRCLE WITH DIAGONAL: RED (REFLECTORIZED)
 BACKGROUND: WHITE (REFLECTORIZED)
 LEGEND: WHITE (REFLECTORIZED)



RECOMMENDED: MAY 3, 2024
[Signature]
 ASSISTANT CHIEF ENGINEER - DESIGN
 APPROVED: MAY 3, 2024
[Signature]
 CHIEF ENGINEER

PTC-TBP
 TRUCKS AND BUSES PROHIBITED
 PAVEMENT MARKING DETAIL

PENNSYLVANIA TURNPIKE COMMISSION
 STANDARD DRAWING

FILE NAME: PTS-980-41.dwg	SHEET 41 OF 41
DRAWING TYPE: 5A	
DATE: APRIL 2024	PTS-980