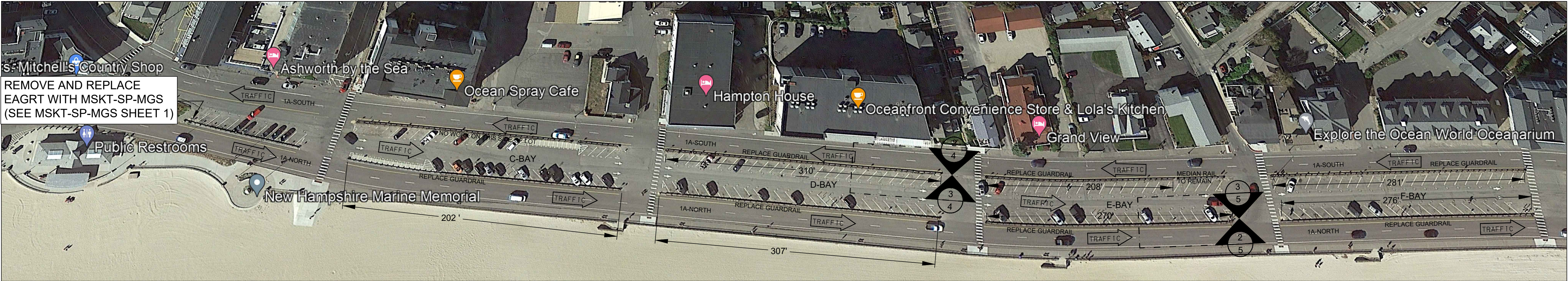
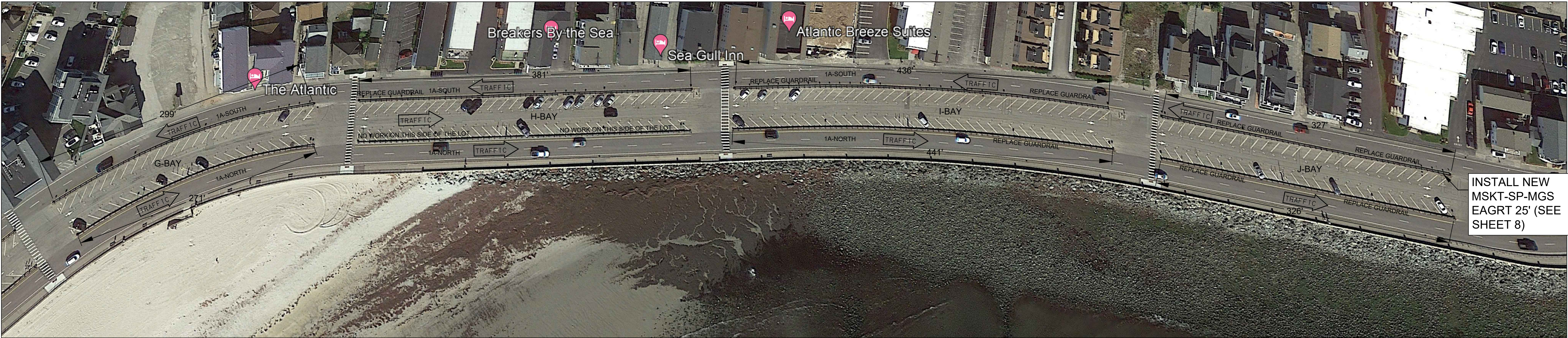


GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH



1 GUARDRAIL REPLACEMENT ASHWORTH HOTEL TO E- BAY

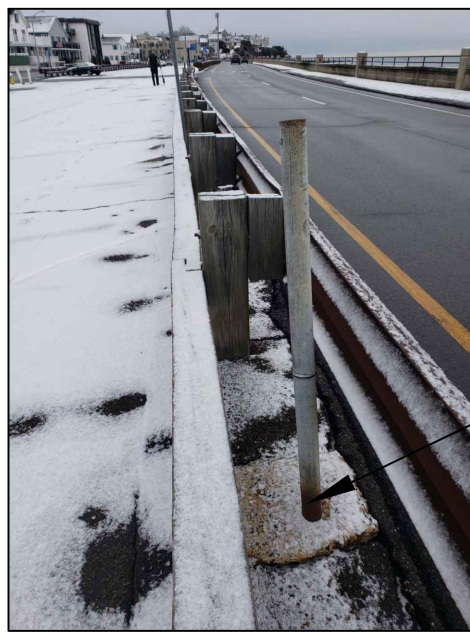


2 GUARDRAIL REPLACEMENT G-BAY TO J-BAY



EXISTING PARKING SIGNS, AND HIGHWAY SIGNS SHALL REMAIN IN PLACE DURING THE COURSE OF THE WORK.

IF THE SIGNS NEED TO BE REMOVED TO FACILITATE GUARDRAIL REPLACEMENT THE CONTRACTOR SHALL REMOVE, STORE, AND REINSTALL THEM AT THEIR EXPENSE.



REMOVE AND DISPOSE OLD METER POLES CUT FLUSH TO CONCRETE BASE OR PAVEMENT (PAY ITEM TO BE INCLUDED IN DEMOLITION)

3 SING POSTS AND SIGNS ARE TO REMAIN IN PLACE

4 REMOVE OLD PARKING METER POLES

- NOTES:
1. CONTRACTOR SHALL OBTAIN A DISSAFE NUMBER PRIOR TO COMMENCING ANY EXCAVATIONS.
 2. PROVIDE ALL NECESSARY TRAFFIC CONTROL PROTECTION PER THE TOWN OF HAMPTON POLICE DEPARTMENT. PROVIDE UNIFORMED POLICE OFFICER IF NECESSARY PER THE TOWN OF HAMPTON PD.
 3. REMOVE ALL STEEL GUARDRAIL AND WOOD POSTS. SALVAGE ANY SIGNS THAT MAY BE MOUNTED ON STEEL POSTS OR U-CHANNEL POSTS.
 4. ALL U-CHANNEL SIGN POSTS, PARKING SIGNS AND TRAFFIC SIGNS ARE TO REMAIN IN PLACE DURING THE COURSE OF THIS WORK.
 5. REPLACE WOOD POSTS, OFFSET BLOCKS, AND TIMBER RAILS.
 6. INSTALL NEW GALVANIZED BEAM GUARDRAIL IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS SECTION 608.
 7. CLEAN THE SITE OF ALL CONSTRUCTION DEBRIS AT THE END OF THE JOB.

GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH		DATE: MAR 27, 2023	
APPROVED BY:	PROJECT # CAP-2301	SCALE: N/A	
DRAWN BY: ED MUSSEY			



STATE OF NEW HAMPSHIRE DEPARTMENT OF NATURAL AND CULTURAL RESOURCES	HAMPTON BEACH STATE PARK HAMPTON, NH
DESIGN, DEVELOPMENT, AND MAINTENANCE SECTION	

GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH



- NOTES:
1. CONTRACTOR SHALL OBTAIN A DISASTE NUMBER PRIOR TO COMMENCING ANY EXCAVATIONS.
 2. PROVIDE ALL NECESSARY TRAFFIC CONTROL PROTECTION PER THE TOWN OF HAMPTON POLICE DEPARTMENT. PROVIDE UNIFORMED POLICE OFFICER IF NECESSARY PER THE TOWN OF HAMPTON PD.
 3. REMOVE ALL STEEL GUARDRAIL AND WOOD POSTS.
 4. REPLACE WITH WOOD POSTS, OFFSET BLOCKS, AND TIMBER RAILS.
 5. INSTALL NEW GALVANIZED BEAM GUARDRAIL IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS SECTION 606.
 6. CLEAN THE SITE OF ALL CONSTRUCTION DEBRIS AT THE END OF THE JOB.

1 GUARDRAIL REPLACEMENT LOT SOUTH OF WINNACUNNET ROAD

2

NOTE: THIS TABLE IS PROVIDED AS REFERENCE ONLY, BIDDERS SHALL VERIFY THE QUANTIES OF ALL ITEMS REQUIRED BEFORE SUBMITTING THEIR BID.

LOCATION	MEASURED LENGTH	606140 BEAM GUARDRAIL STANDARD SECTION LENGTH	606141 BEAM GUARDRAIL MEDIAN SECTION LENGTH	BEAM GUARDRAIL TERMINAL END UNIT 25'	6065A WOOD RAIL LENGTH	REFERENCE ONLY # 6"X8" WOOD POSTS	REFERENCE ONLY # 6"X8" WOOD BLOCKS	REFERENCE ONLY # FDB04		# 6"X8" STEEL POSTS	# SYNTHETIC BLOCKS	MSKT-SP-MGS EAGRT 25'	MATT 34'-4 1/2"	6212 RETROREFLECTIVE BEAM GAUARDRAIL DELINEATOR	62131 SINGLE DELINEATOR WITH POST
MARINE MEMORIAL (PARTIAL REPLACEMENT)	51'				17'	3	3	3				1		2	1
C-BAY (NORTH BOUND)	101'	151'		2	151'	33	33	33						4	2
C-BAY (SOUTH BOUND) NOT WORK	NONE'	NONE'			NONE'	NONE'	NONE'	NONE'							
D-BAY (NORTH BOUND)	307'	257'		2	257'	50	50	50						7	3
D-BAY (SOUTH BOUND)	310'	260'		2	260'	50	50	50						7	3
E-BAY (NORTH BOUND)	270'	220'		2	220'	44	44	44						6	3
E-BAY (SOUTH BOUND)	208'	158'		2	158'	34	34	34						5	2
F-BAY (NORTH BOUND)	276'	226'		2	226'	45	45	45						6	3
F-BAY (SOUTH BOUND)	281'	231'		2	231'	46	46	46						6	3
G-BAY (NORTH BOUND)	271'	221'		2	221'	44	44	44						6	3
G-BAY (SOUTH BOUND)	299'	249'		2	249'	49	49	49						7	3
H-BAY (NORTH BOUND) NO WORK NEEDED															
H-BAY (SOUTH BOUND)	381'	331'		2	331'	62	62	62						8	3
I-BAY (NORTH BOUND)	441'	391'		2	391'	72	72	72						10	3
I-BAY (SOUTH BOUND)	436'	386'		2	386'	71	71	71						9	3
J-BAY (NORTH BOUND)	326'	276'		2	276'	53	54	54						7	3
J-BAY (SOUTH BOUND)	327'	277'		1	277'	49	49	53				1		7	3
MEDIAN ACROSS FROM 591 OCEAN BLVD.	25'			1		1	1	1						1	1
LOT SOUTH OF WINNACUNNET AVE	121'		87	1		20	20	20		5	5		1	5	2
														3	
TOTALS	4532'	3635'			3635'							2		106	44

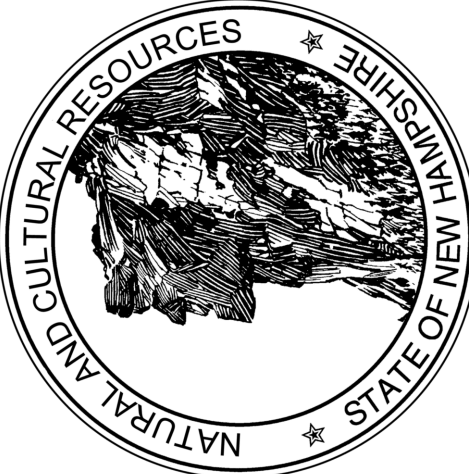
2 GUARDRAIL REPLACEMENT SCHEDULE

2

GUARDRAIL REPLACEMENT AT
HAMPTON BEACH STATE PARK HAMPTON, NH

APPROVED BY: PROJECT # ARP-2301 DATE: MAR 27, 2023

DRAWN BY: ED MUSSEY SCALE: N/A

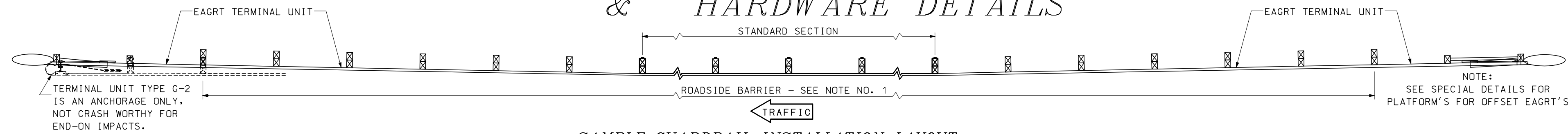


STATE OF NEW HAMPSHIRE
DEPARTMENT OF NATURAL AND
CULTURAL RESOURCES

DESIGN, DEVELOPMENT, AND MAINTENANCE SECTION

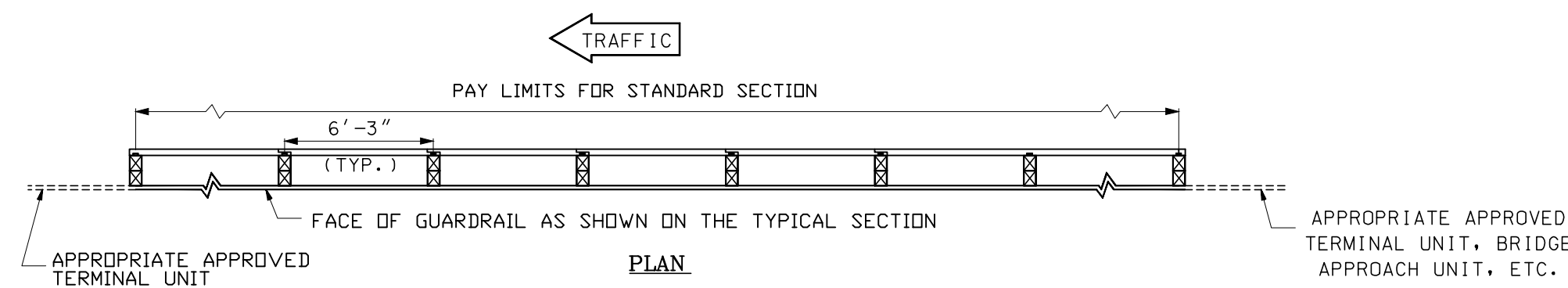
HAMPTON BEACH STATE PARK
HAMPTON, NH

BEAM GUARDRAIL
STANDARD SECTION – WOOD POSTS
& HARDWARE DETAILS

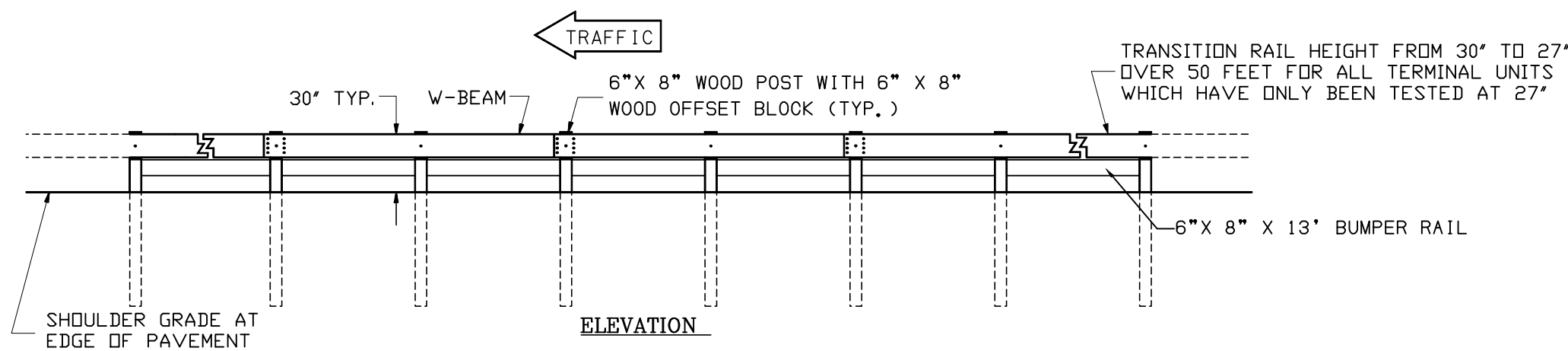


SAMPLE GUARDRAIL INSTALLATION LAYOUT

1 SAMPLE GUARDRAIL INSTALLATION LAYOUT



PLAN

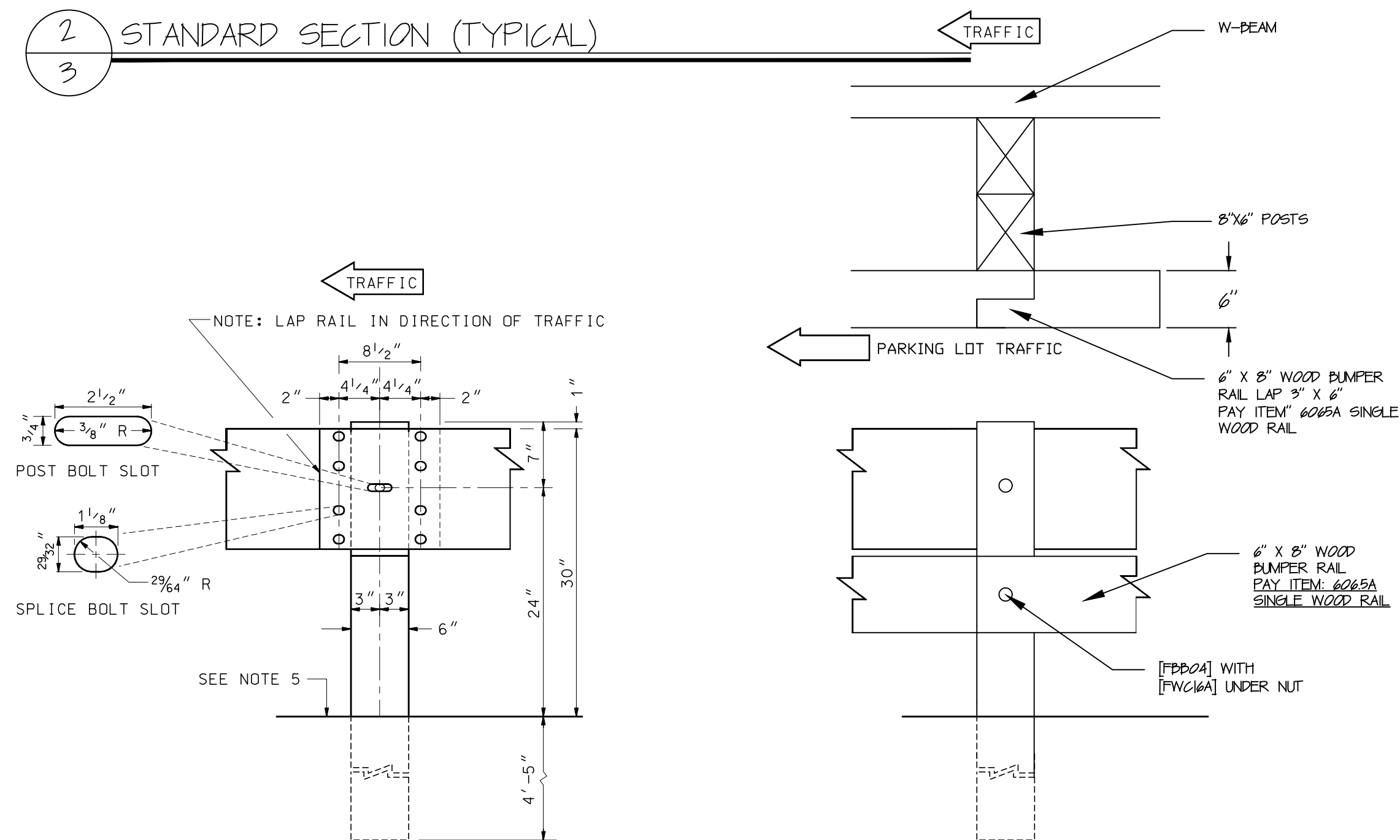


ELEVATION

STANDARD SECTION

ITEM 606.140 – BEAM GUARDRAIL (STANDARD SECTION-WOOD POSTS)
PAID: LINEAR FOOT
USE: REPAIR OF EXISTING STRONG WOOD POST W-BEAM RUNS.

2 STANDARD SECTION (TYPICAL)

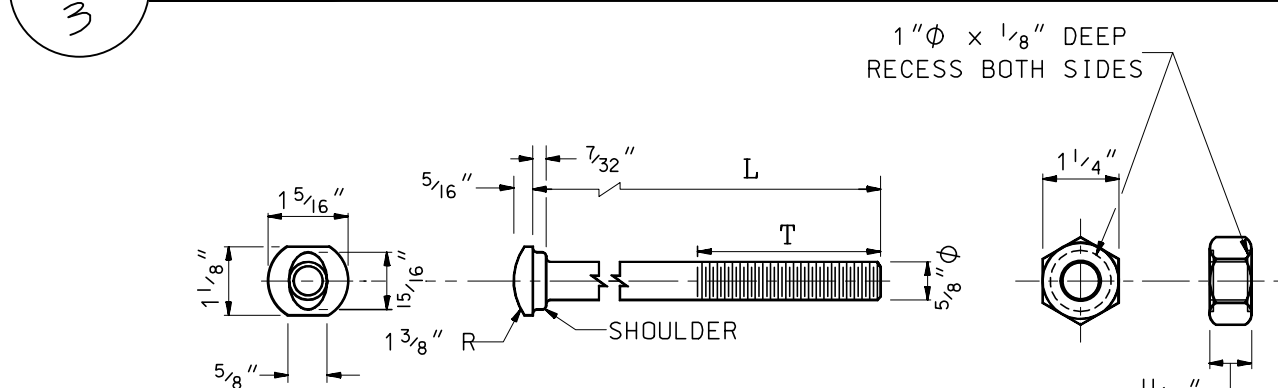


LINE POST ELEVATION VIEW
AT BEAM SPLICE
(SHOWN WITHOUT FASTENERS)

LINE POST ELEVATION VIEW
AT BUMPER RAIL SPLICE

4 LINE POST ELEVATION VIEW AT BEAM SPLICE

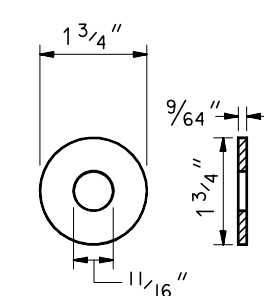
5 LINE POST ELEVATION VIEW AT BUMPER RAIL



DESIGNATOR	L	T	INTENDED USE
FBB01	1 1/4"	FULL LENGTH THREAD	RAIL SPLICE BOLTS
FBB03	10"	4" MIN. THREAD LENGTH	POST BOLT
FBB04	18"	4" MIN. THREAD LENGTH	POST BOLT (WOOD POSTS)

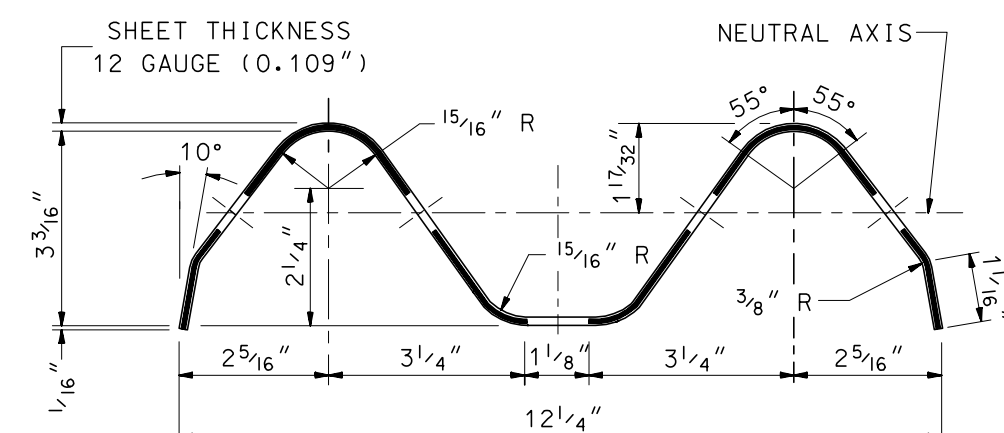
5/8" BUTTON HEAD BOLT AND RECESSED NUT
(FBB01-04)

7 FASTENER DETAIL & SCHEDULE (TYPICAL)



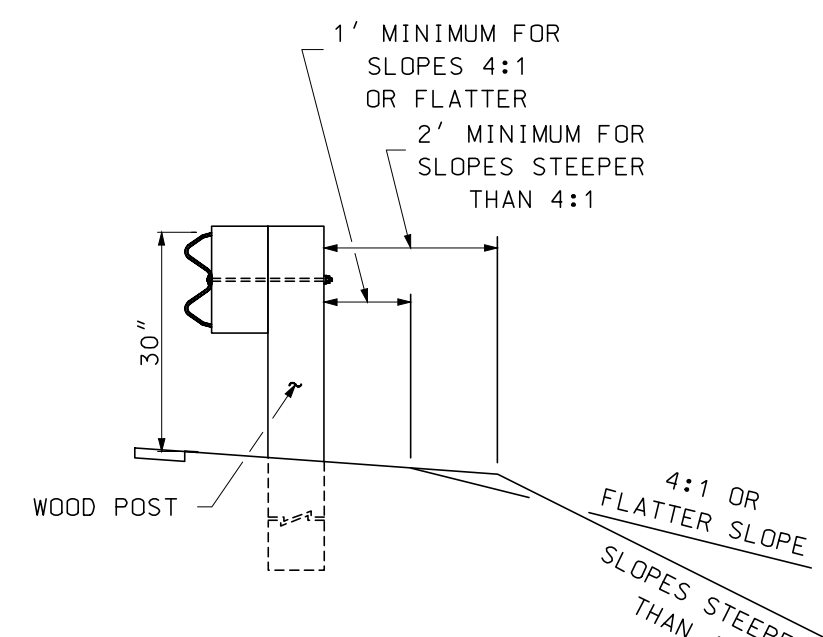
WASHER
(FWC16a)

8 WASHER DETAIL

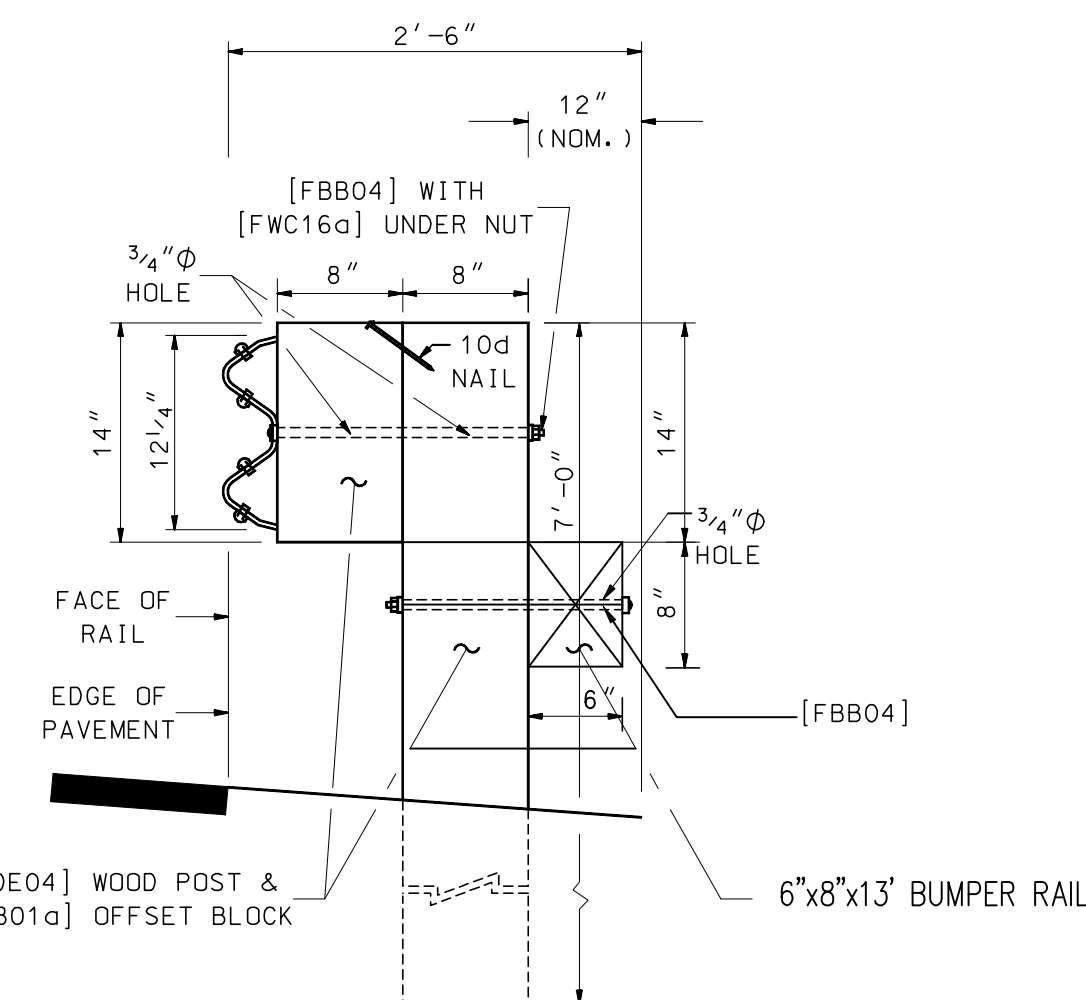


SECTION THRU RAIL ELEMENT
(4 SPACE W BEAM GUARDRAIL DESIGNATED
RWM04a (NOMINALLY 12'-6"))
(8 SPACE W BEAM GUARDRAIL UNDESIGNATED
AT THIS TIME (NOMINALLY 25'-0"))

3 SECTION THRU RAIL ELEMENT (TYPICAL)



CLARIFICATION DETAIL FOR
GENERAL NOTE 6



TYPICAL SIDE VIEW
(SHOWN WITH FASTENERS)

6 LINE POST SIDE VIEW (TYPICAL)

GENERAL NOTES

- THE DEFINITION OF ROADSIDE BARRIER IS PER THE LATEST ADOPTED EDITION OF THE AASHTO ROADSIDE DESIGN GUIDE. EXCLUDED FROM THIS IS THE GATING PORTION OF A GUARDRAIL TERMINAL UNIT OR CRASH CUSHION AS WELL AS THE ENTIRE G-2 TERMINAL UNIT.
- ITEMS IN BRACKETS [] ARE *STANDARD ELEMENTS* DESCRIBED IN AASHTO'S "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE".
- ONLY USE RECTANGULAR PLATE WASHERS [FWR03] WHERE SHOWN ON THE OTHER STANDARD SHEETS OR AS REQUIRED BY THE MANUFACTURERS FOR THEIR PROPRIETARY PRODUCTS.
- USE 12'-6" LENGTH RAIL ELEMENTS IN RAIL CURVES OF LESS THAN 100' RADIUS.
- ESTABLISH RAIL HEIGHT AS FOLLOWS:
 - SET THE HEIGHT OF RAIL FROM THE EDGE OF THE PAVEMENT (EP) WHEN THE FACE OF RAIL IS AT THE EDGE OF PAVEMENT.
 - SET THE HEIGHT OF RAIL FROM THE GROUND AT THE FACE OF RAIL WHEN:
 - THE FACE OF RAIL IS OFFSET FROM THE EP AND THE CROSS SLOPE FROM THE EP TO THE FACE OF RAIL IS 10:1 OR FLATTER OR
 - THE FACE OF RAIL IS AT THE BACK OF A CURBED SIDEWALK AND THE CURB IS AT THE EDGE OF PAVEMENT
 - WHEN SITUATIONS OTHER THAN THOSE DESCRIBED IN A OR B ABOVE ARE ENCOUNTERED, ESTABLISH RAIL HEIGHT THROUGH AN ENGINEERING REVIEW TO ENSURE APPROPRIATE SYSTEM PERFORMANCE.
- USE OF POSTS SHORTER THAN 7', BUT NOT LESS THAN 6'-0" LONG, IS ONLY ALLOWED UNDER THE FOLLOWING CONDITIONS:
 - WHERE THERE IS A MINIMUM DISTANCE OF 1' FROM THE BACK OF THE GUARDRAIL POST ALONG A 10:1 OR FLATTER SLOPE TO THE SLOPE BREAK OF A 4:1 OR FLATTER SLOPE OR
 - WHERE THERE IS A MINIMUM DISTANCE OF 2' FROM THE BACK OF THE GUARDRAIL POST ALONG A 10:1 OR FLATTER SLOPE TO THE SLOPE BREAK OF A STEEPER THAN 4:1 STABLE SOIL OR STONE LINED SLOPE. THE TERM STABLE INCLUDES NOT SHOWING SIGNS OF SLOPE MOVEMENT (SUCH AS DEPRESSIONS, CRACKS PARALLEL TO THE ROADWAY, ETC.) OR ACTIVE EROSION.
- THE FHWA HAS LISTED OFFSET BLOCKS ON THEIR WEBSITE THAT ARE ELIGIBLE FOR FEDERAL PARTICIPATION PER NCHRP 350 TEST LEVEL 3 CRITERIA. OTHERS MAY BE ADDED UNDER MASH AT TEST LEVEL 3 OR HIGHER IN THE FUTURE. SOME OF THESE OFFSET BLOCKS HAVE OR MAY HAVE DIMENSIONS THAT VARY MORE THAN WOULD BE CONSIDERED WITHIN THE NORMAL CONTEXT OF NOMINAL DIMENSIONS. IN ORDER TO USE ANY OFFSET BLOCKS THAT HAVE OTHER THAN THE NOMINAL DIMENSIONS AS SHOWN ON THE PLANS, THE FOLLOWING APPLIES:
 - THE FACE OF RAIL SHALL REMAIN AT THE EDGE OF PAVEMENT OR AT THE INDICATED LOCATION AS SHOWN ON THE PLANS, AND
 - THE DISTANCE FROM THE BACK OF THE POST TO THE BREAK IN THE SLOPE SHALL NOT BE LESS THAN WHAT IS SHOWN ON THE PLANS BUT IT MAY BE MORE.
 - ALL OTHER REQUIREMENTS OF THE PERTINENT SPECIFICATIONS AND DETAILS REMAIN IN FORCE.

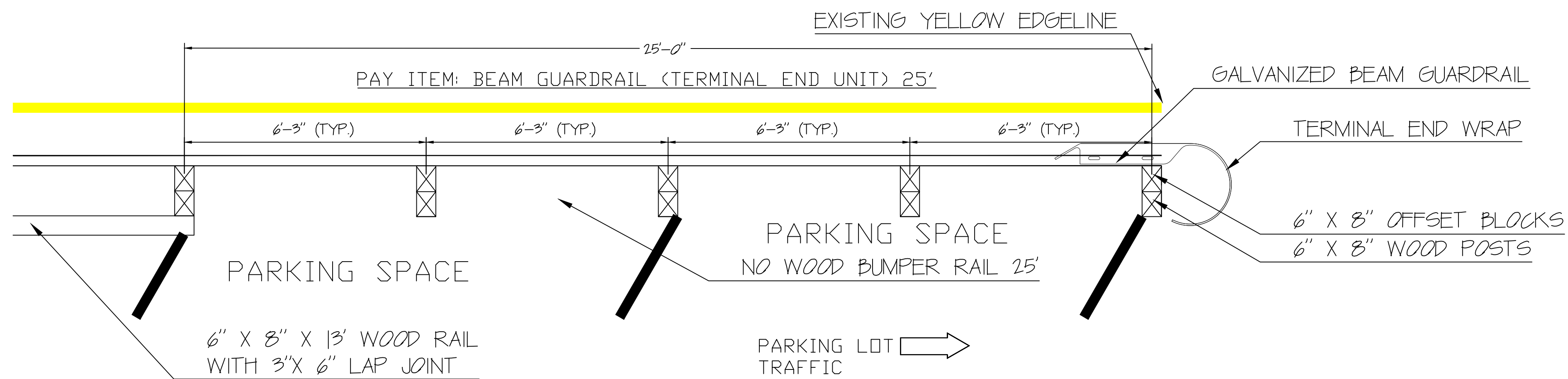
- NOTES:
- CONTRACTOR SHALL OBTAIN A DISEASE NUMBER PRIOR TO COMMENCING ANY EXCAVATIONS.
 - PROVIDE ALL NECESSARY TRAFFIC CONTROL PROTECTION PER THE TOWN OF HAMPTON POLICE DEPARTMENT. PROVIDE UNIFORMED POLICE OFFICER IF NECESSARY PER THE TOWN OF HAMPTON PD.
 - REMOVE ALL STEEL GUARDRAIL AND WOOD POSTS SALVAGE ANY SIGNS THAT MAY BE MOUNTED ON STEEL POSTS OR U-CHANNEL POSTS.
 - ALL U-CHANNEL SIGN POSTS, PARKING SIGNS AND TRAFFIC SIGNS ARE TO REMAIN IN PLACE DURING THE COURSE OF THIS WORK.
 - REPLACE WOOD POSTS, OFFSET BLOCKS, AND TIMBER RAILS.
 - INSTALL NEW GALVANIZED BEAM GUARDRAIL IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS SECTION 606.
 - CLEAN THE SITE OF ALL CONSTRUCTION DEBRIS AT THE END OF THE JOB.

GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH	DATE: MAR 27, 2023	
	PROJECT: CAP-2301	SCALE: EDWARD MUSSEY
APPROVED BY:		DRAWN BY:

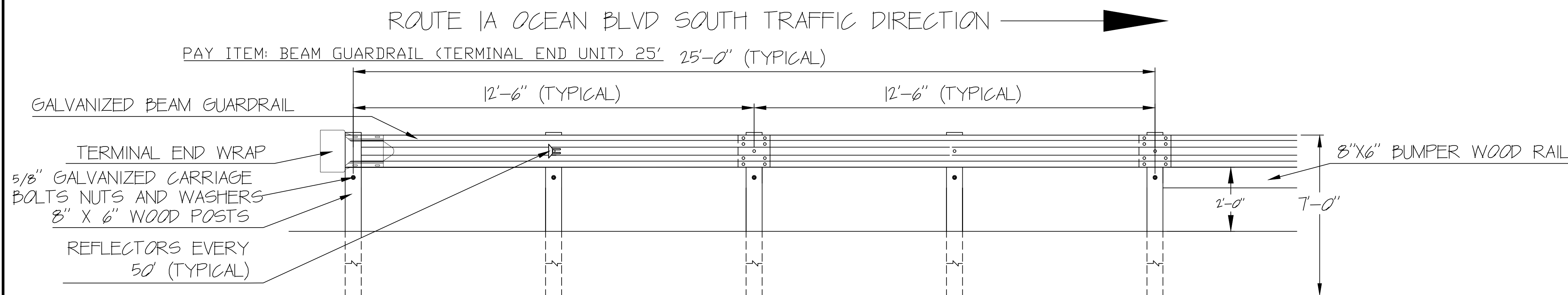
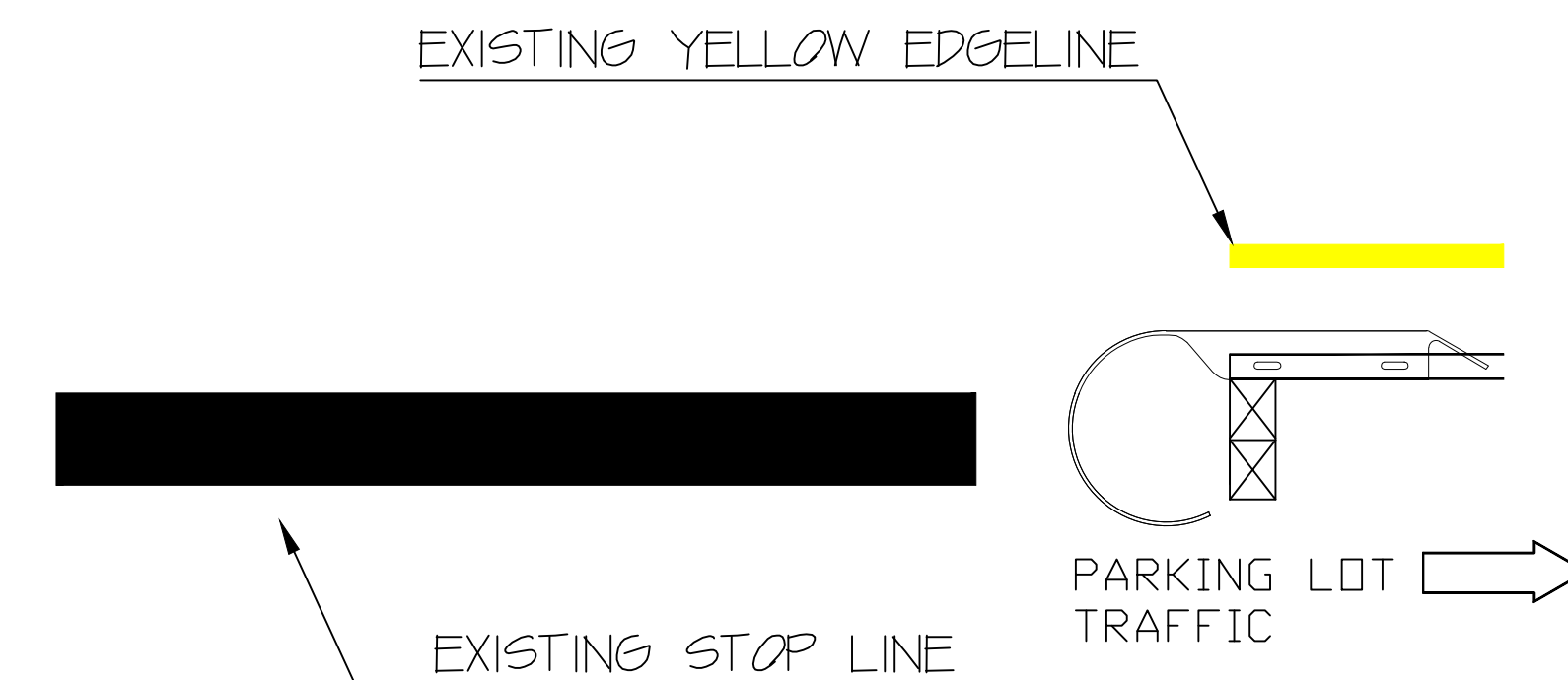


STATE OF NEW HAMPSHIRE DEPARTMENT OF NATURAL AND CULTURAL RESOURCES	DESIGN, DEVELOPMENT, AND MAINTENANCE SECTION	HAMPTON BEACH STATE PARK HAMPTON, NH
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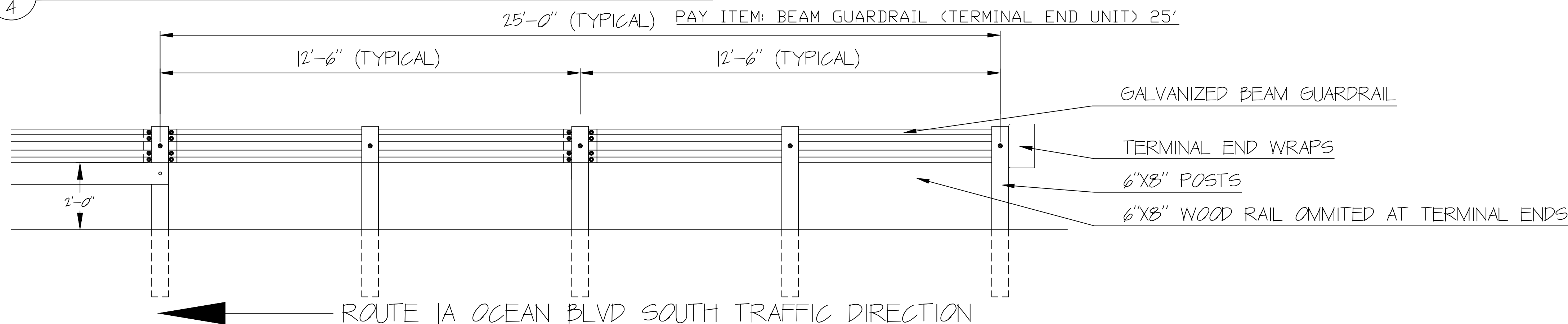
ROUTE 1A OCEAN BLVD SOUTH



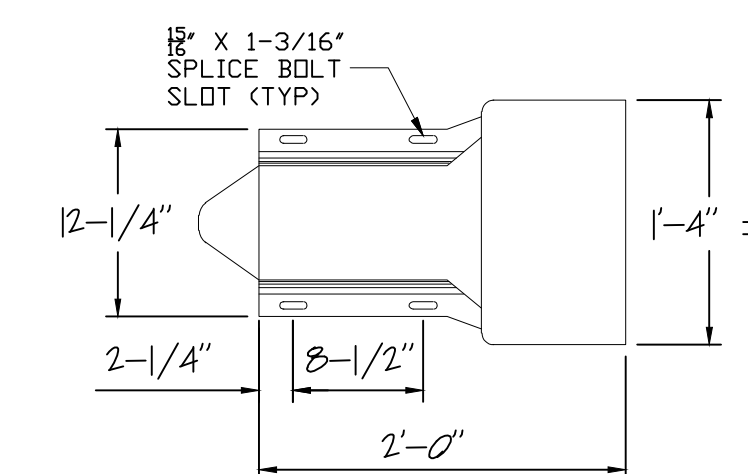
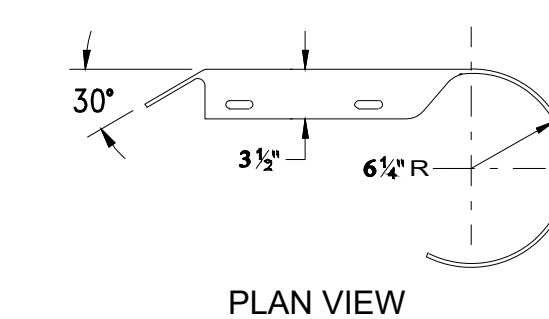
1
4 GUARDRAIL PLAN VIEW ALONG OCEAN BLVD (SOUTH BOUND) TYPICAL



2
4 GUARDRAIL ELEVATION ALONG OCEAN BLVD. (SOUTH BOUND) TYPICAL



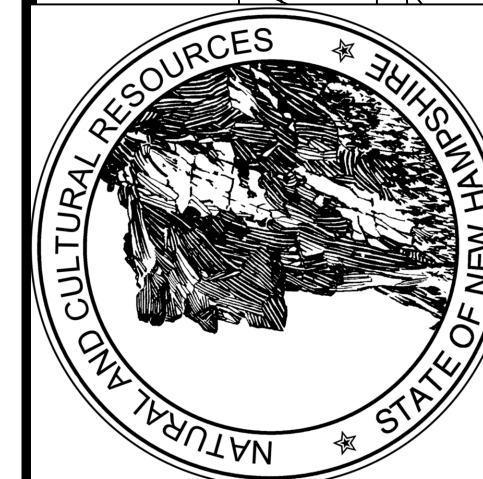
3
4 GUARDRAIL ELEVATION ALONG OCEAN BLVD. (SOUTH BOUND) TYPICAL



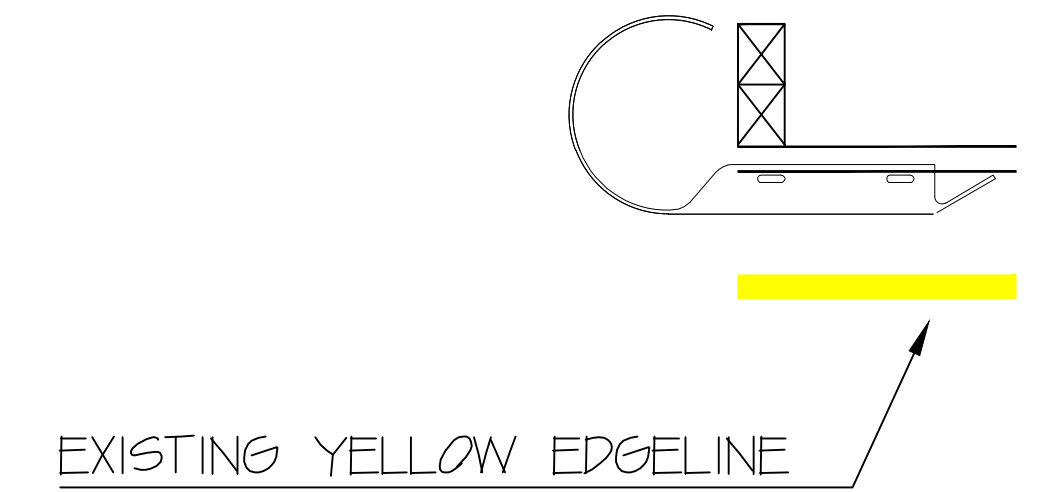
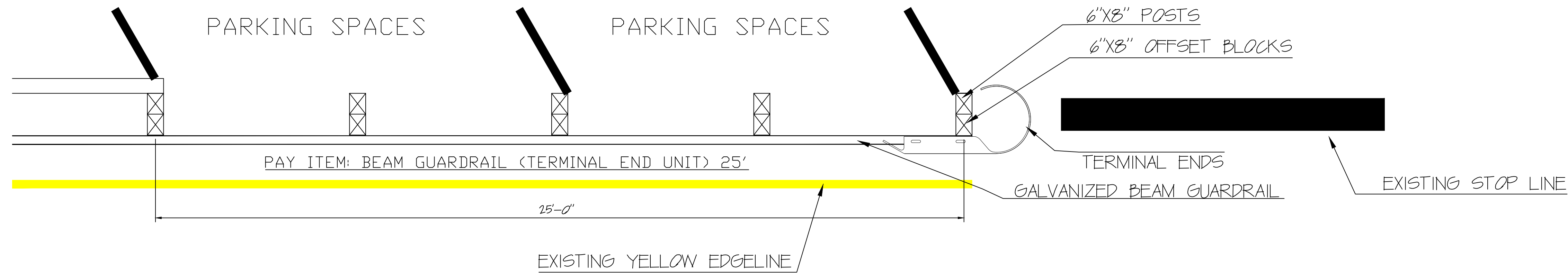
4
4 TERMINAL END WRAP DETAIL

- NOTES:
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GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH	DATE: MAR 27, 2023	
	PROJECT # CAP-2301	SCALE: 1" = 100'
	APPROVED BY:	DRAWN BY: ED MUSSEY



STATE OF NEW HAMPSHIRE DEPARTMENT OF NATURAL AND CULTURAL RESOURCES DESIGN, DEVELOPMENT, AND MAINTENANCE SECTION	HAMPTON BEACH STATE PARK HAMPTON, NH
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- NOTES:
1. CONTRACTOR SHALL OBTAIN A DISEASE NUMBER PRIOR TO COMMENCING ANY EXCAVATIONS.
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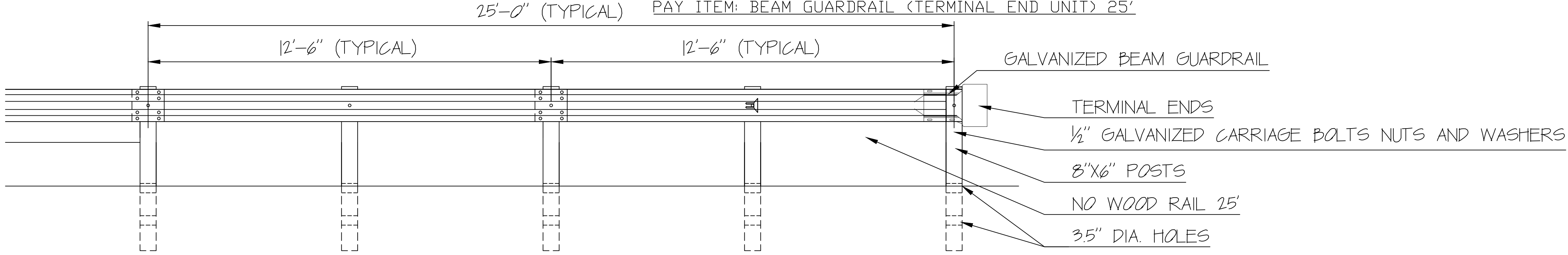
ROUTE 1A OCEAN BLVD NORTH

1
5

GUARDRAIL PLAN VIEW

ROUTE 1A OCEAN BLVD NORTH

25'-0" (TYPICAL) PAY ITEM: BEAM GUARDRAIL (TERMINAL END UNIT) 25'

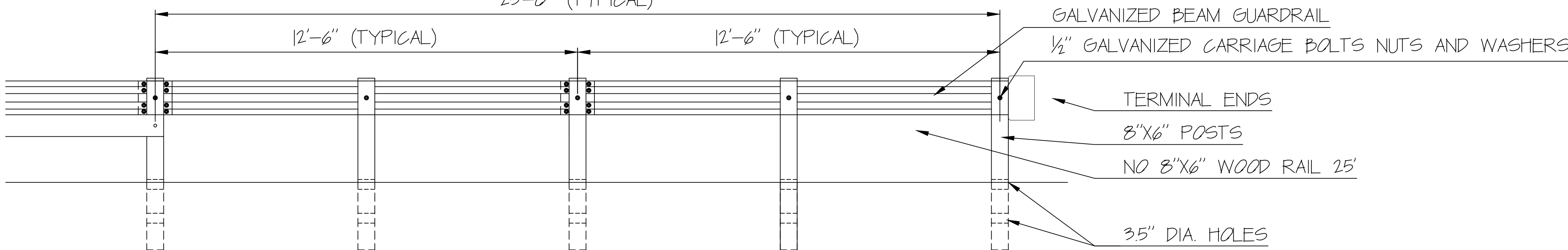


2
5

GUARDRAIL ELEVATION NORTH BOUND (TYPICAL)

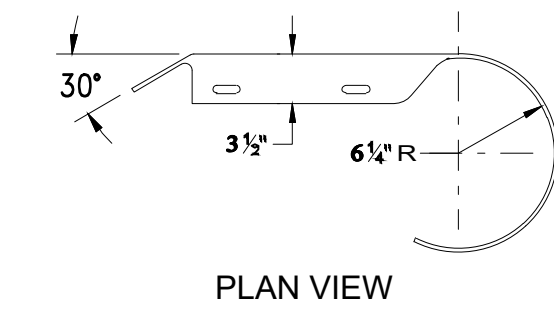
ROUTE 1A OCEAN BLVD NORTH

25'-0" (TYPICAL) PAY ITEM: BEAM GUARDRAIL (TERMINAL END UNIT) 25'

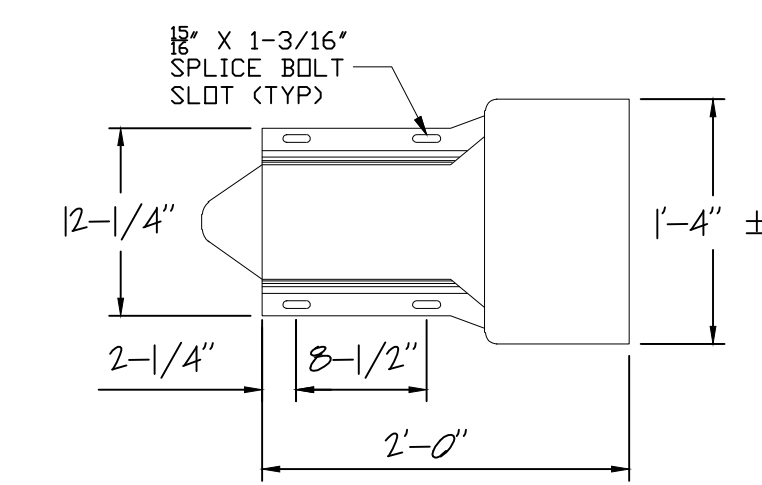


3
5

GUARDRAIL ELEVATION NORTH BOUND (TYPICAL)



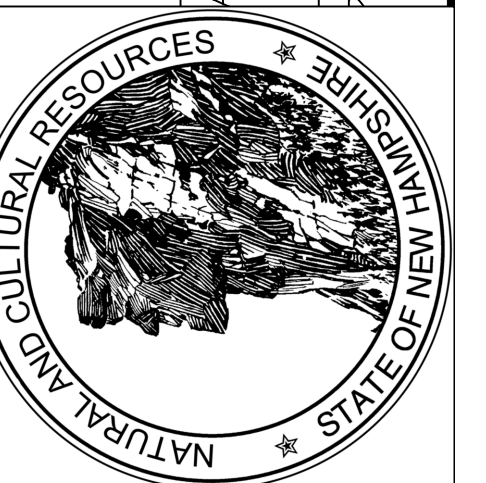
PLAN VIEW



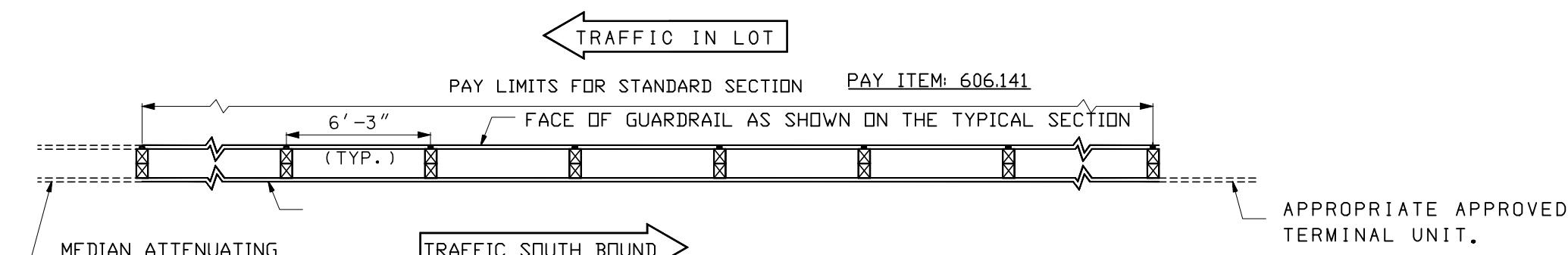
4
5

TERMINAL END WRAP DETAIL

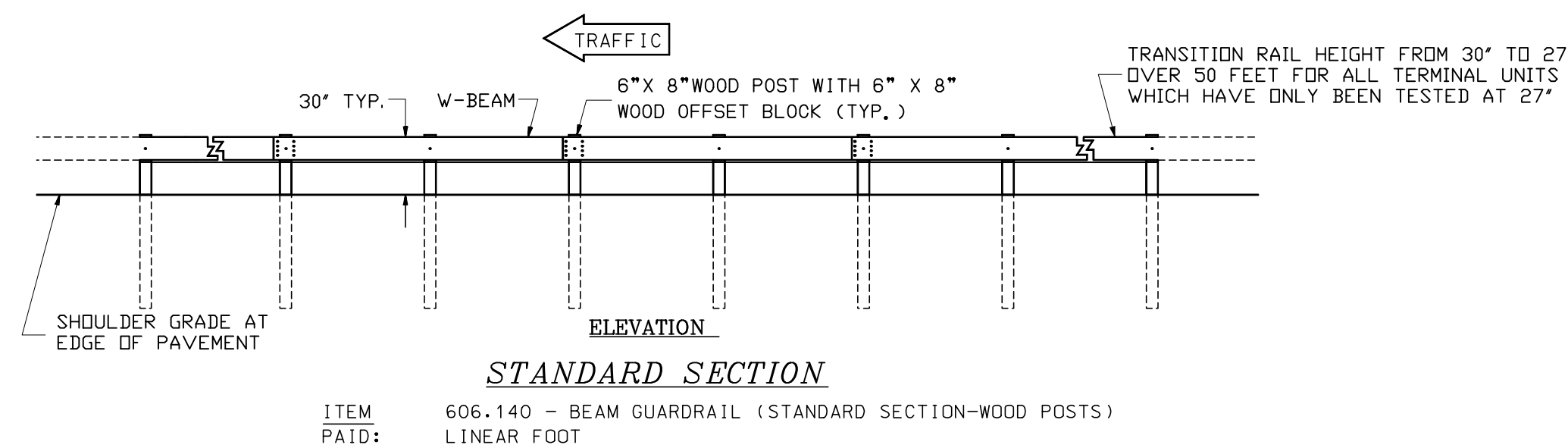
GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH		DATE: MAR 27, 2013	
PROJECT # CAP-2301	APPROVED BY:	SCALE: 1" = 100'	
	DRAWN BY: ED MUSSEY		



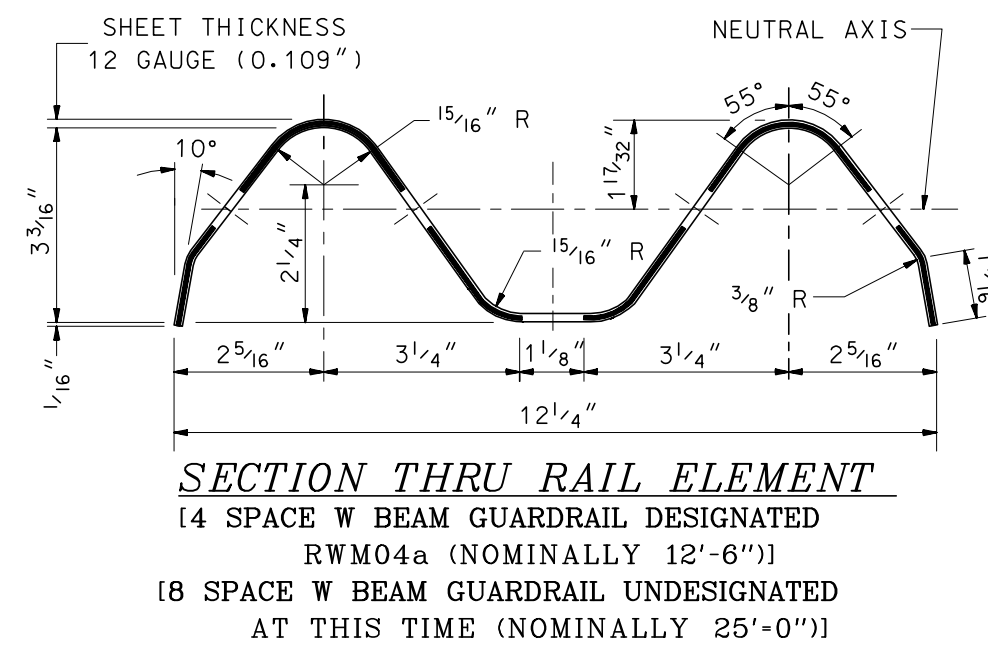
STATE OF NEW HAMPSHIRE DEPARTMENT OF NATURAL AND CULTURAL RESOURCES	DESIGN, DEVELOPMENT, AND MAINTENANCE SECTION	HAMPTON BEACH STATE PARK HAMPTON, NH
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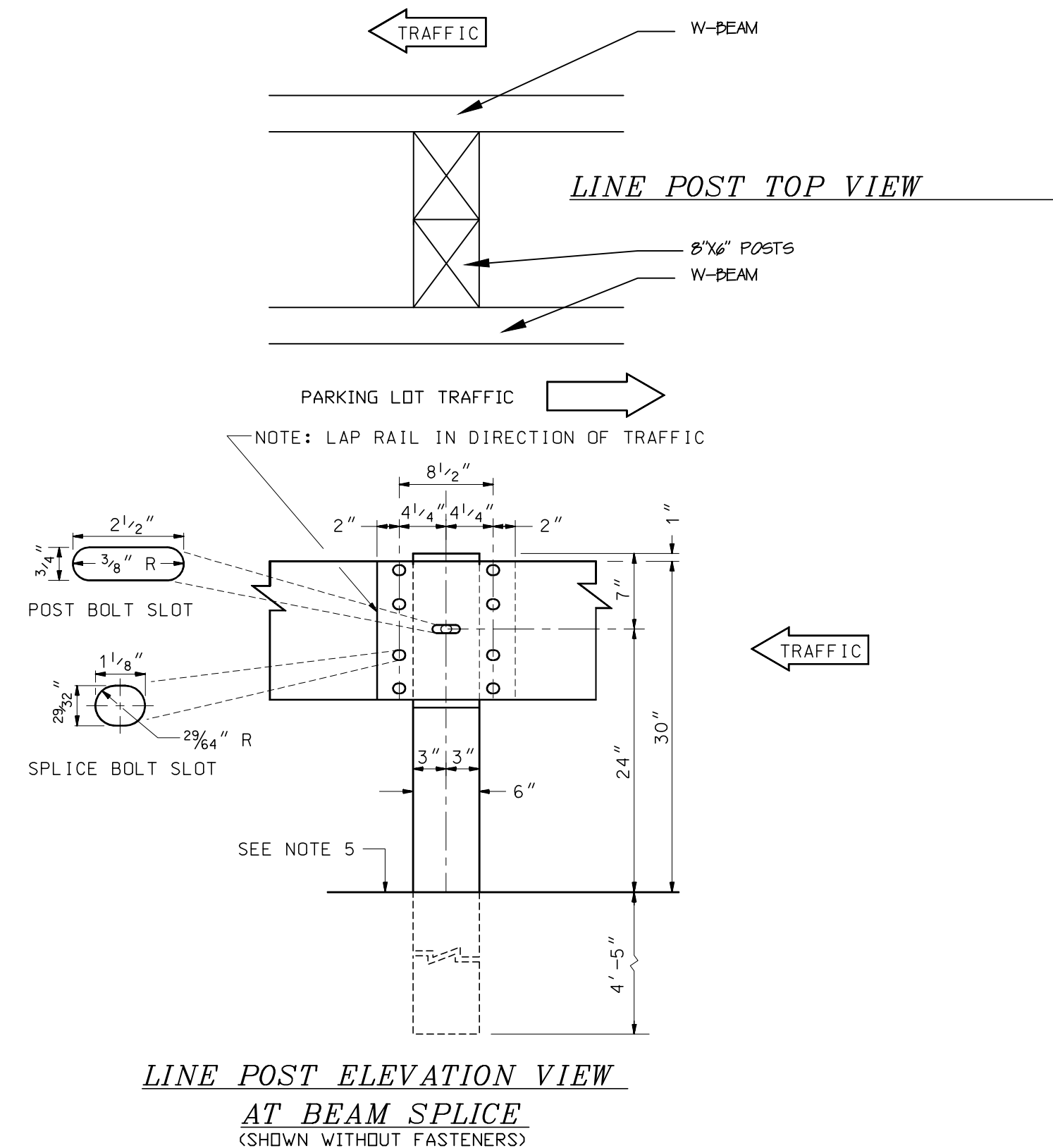
1 SINGLE BEAM MEDIAN GUARDRAIL BOTH SIDES OF WOOD POSTS



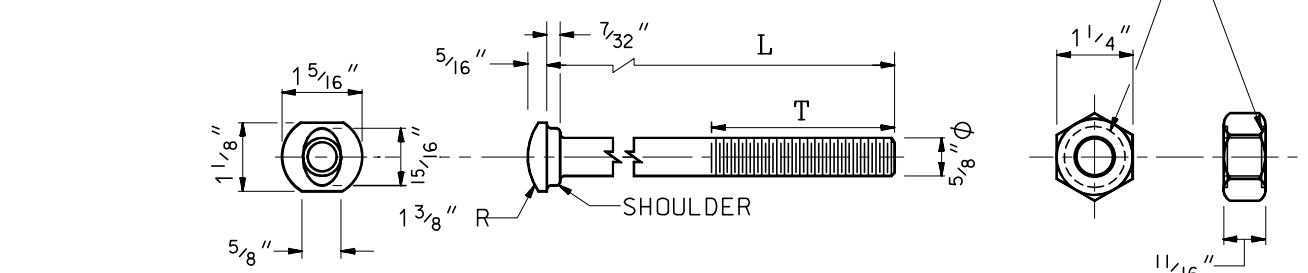
2 STANDARD SECTION RAIL BOTH SIDES OF LINE POST



3 SECTION THRU RAIL ELEMENT



4 LINE POST ELEVATION VIEW AT BEAM SPLICE

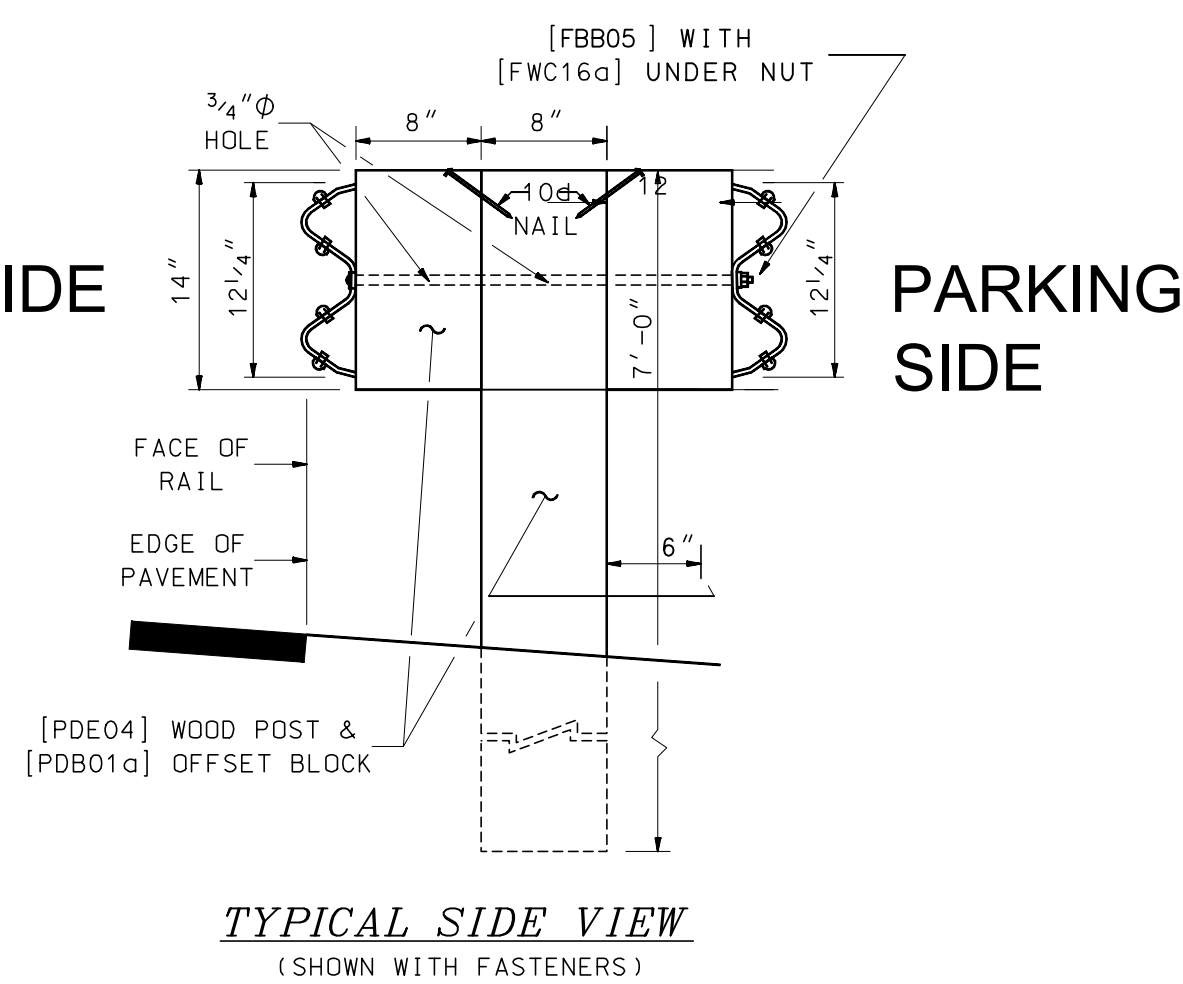


DESIGNATOR	L	T	INTENDED USE
FBB01	1 1/4"	FULL LENGTH THREAD	RAIL SPLICE BOLTS
FBB03	10"	4" MIN. THREAD LENGTH	POST BOLT
FBB04	18"	4" MIN. THREAD LENGTH	POST BOLT (WOOD POSTS)
FBB05	26"	4" MIN. THREAD LENGTH	POST BOLT (WOOD POSTS) BOTH SIDES

5/8" BUTTON HEAD BOLT AND RECESSED NUT (FBB01-05)

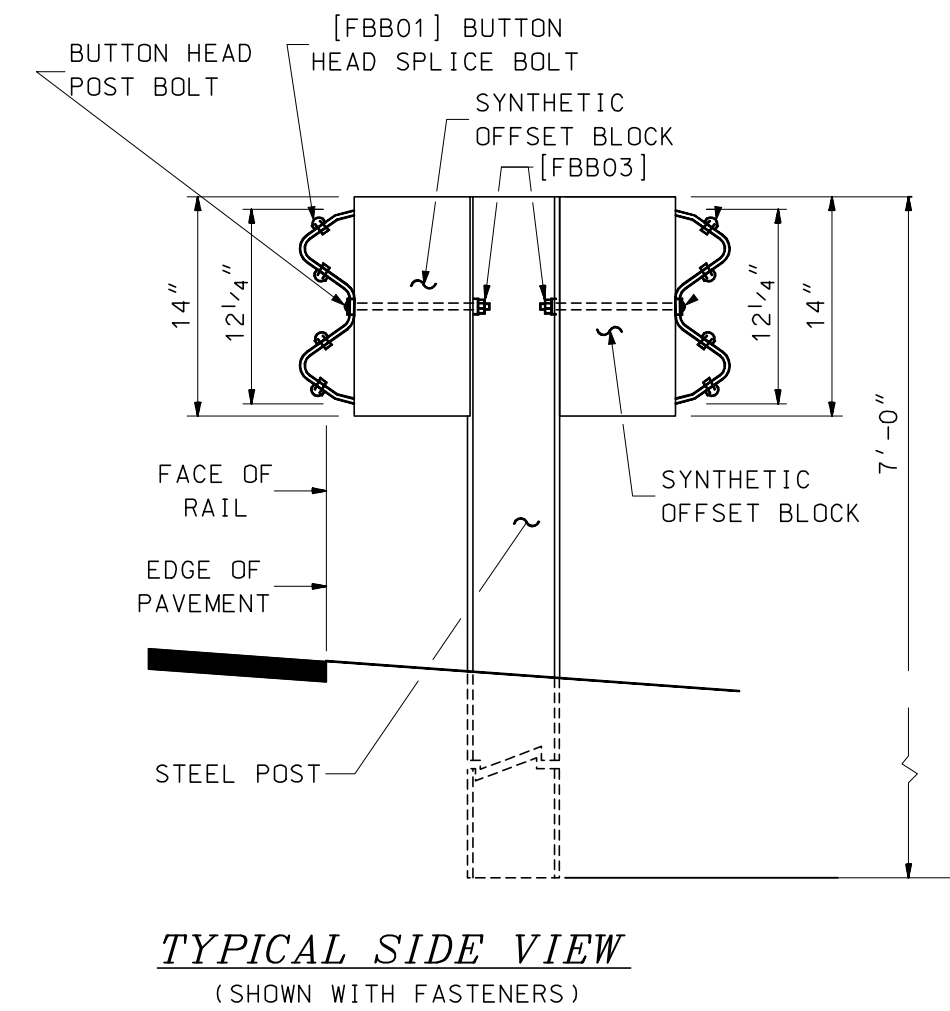
7 FASTENER DETAIL AND SCHEDULE

ROAD SIDE

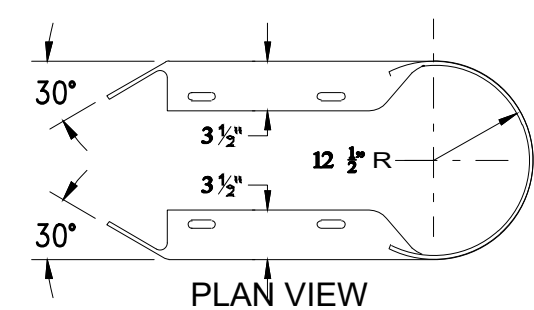


5 LINE POST SIDE VIEW (TYPICAL)

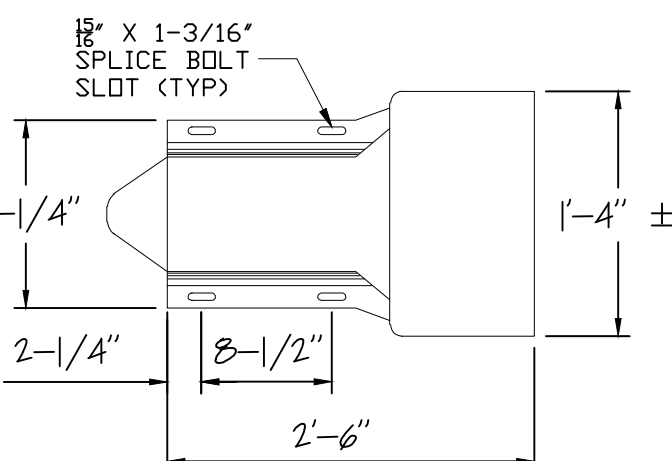
PARKING SIDE



6 STEEL LINE POST SIDE VIEW (ALTERNATE)



8 WASHER DETAIL



9 MEDIAN TERMINAL END WRAP DETAIL NOT TO SCALE:

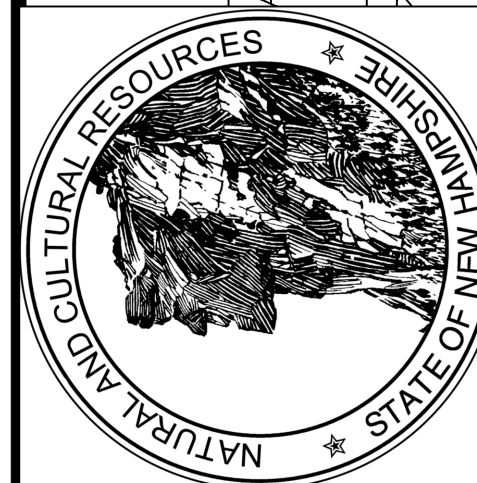
GENERAL NOTES

1. THE DEFINITION OF ROADSIDE BARRIER IS PER THE LATEST ADOPTED EDITION OF THE AASHTO ROADSIDE DESIGN GUIDE. EXCLUDED FROM THIS IS THE GATING PORTION OF A GUARDRAIL TERMINAL UNIT OR CRASH CUSHION AS WELL AS THE ENTIRE G-2 TERMINAL UNIT.
2. ITEMS IN BRACKETS [] ARE *STANDARD ELEMENTS* DESCRIBED IN AASHTO'S "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE".
3. ONLY USE RECTANGULAR PLATE WASHERS [FWR03] WHERE SHOWN ON THE OTHER STANDARD SHEETS OR AS REQUIRED BY THE MANUFACTURERS FOR THEIR PROPRIETARY PRODUCTS.
4. USE 12'-6" LENGTH RAIL ELEMENTS IN RAIL CURVES OF LESS THAN 100' RADIUS.
5. ESTABLISH RAIL HEIGHT AS FOLLOWS:
 - A) SET THE HEIGHT OF RAIL FROM THE EDGE OF THE PAVEMENT (EP) WHEN THE FACE OF RAIL IS AT THE EDGE OF PAVEMENT.
 - B) SET THE HEIGHT OF RAIL FROM THE GROUND AT THE FACE OF RAIL WHEN:
 - I) THE FACE OF RAIL IS OFFSET FROM THE EP AND THE CROSS SLOPE FROM THE EP TO THE FACE OF RAIL IS 10:1 OR FLATTER OR
 - II) THE FACE OF RAIL IS AT THE BACK OF A CURBED SIDEWALK AND THE CURB IS AT THE EDGE OF PAVEMENT
 - C) WHEN SITUATIONS OTHER THAN THOSE DESCRIBED IN A OR B ABOVE ARE ENCOUNTERED, ESTABLISH RAIL HEIGHT THROUGH AN ENGINEERING REVIEW TO ENSURE APPROPRIATE SYSTEM PERFORMANCE.
6. USE OF POSTS SHORTER THAN 7', BUT NOT LESS THAN 6'-0" LONG, IS ONLY ALLOWED UNDER THE FOLLOWING CONDITIONS:
 - A) WHERE THERE IS A MINIMUM DISTATNCE OF 1' FROM THE BACK OF THE GUARDRAIL POST ALONG A 10:1 OR FLATTER SLOPE TO THE SLOPE BREAK OF A 4:1 OR FLATTER SLOPE OR
 - B) WHERE THERE IS A MINIMUM DISTANCE OF 2' FROM THE BACK OF THE GUARDRAIL POST ALONG A 10:1 OR FLATTER SLOPE TO THE SLOPE BREAK OF A STEEPER THAN 4:1 STABLE SOIL OR STONE LINED SLOPE. THE TERM STABLE INCLUDES NOT SHOWING SIGNS OF SLOPE MOVEMENT (SUCH AS DEPRESSIONS, CRACKS PARALLEL TO THE ROADWAY, ETC.) OR ACTIVE EROSION.

7. THE FHWA HAS LISTED OFFSET BLOCKS ON THEIR WEBSITE THAT ARE ELIGIBLE FOR FEDERAL PARTICIPATION PER NCHRP 350 TEST LEVEL 3 CRITERIA. OTHERS MAY BE ADDED UNDER MASH AT TEST LEVEL 3 OR HIGHER IN THE FUTURE. SOME OF THESE OFFSET BLOCKS HAVE OR MAY HAVE DIMENSIONS THAT VARY MORE THAN WOULD BE CONSIDERED WITHIN THE NORMAL CONTEXT OF NOMINAL DIMENSIONS. IN ORDER TO USE ANY OFFSET BLOCKS THAT HAVE OTHER THAN THE NOMINAL DIMENSIONS AS SHOWN ON THE PLANS, THE FOLLOWING APPLIES:
 - A) THE FACE OF RAIL SHALL REMAIN AT THE EDGE OF PAVEMENT OR AT THE INDICATED LOCATION AS SHOWN ON THE PLANS, AND
 - B) THE DISTANCE FROM THE BACK OF THE POST TO THE BREAK IN THE SLOPE SHALL NOT BE LESS THAN WHAT IS SHOWN ON THE PLANS BUT IT MAY BE MORE.
 - C) ALL OTHER REQUIREMENTS OF THE PERTINENT SPECIFICATIONS AND DETAILS REMAIN IN FORCE.

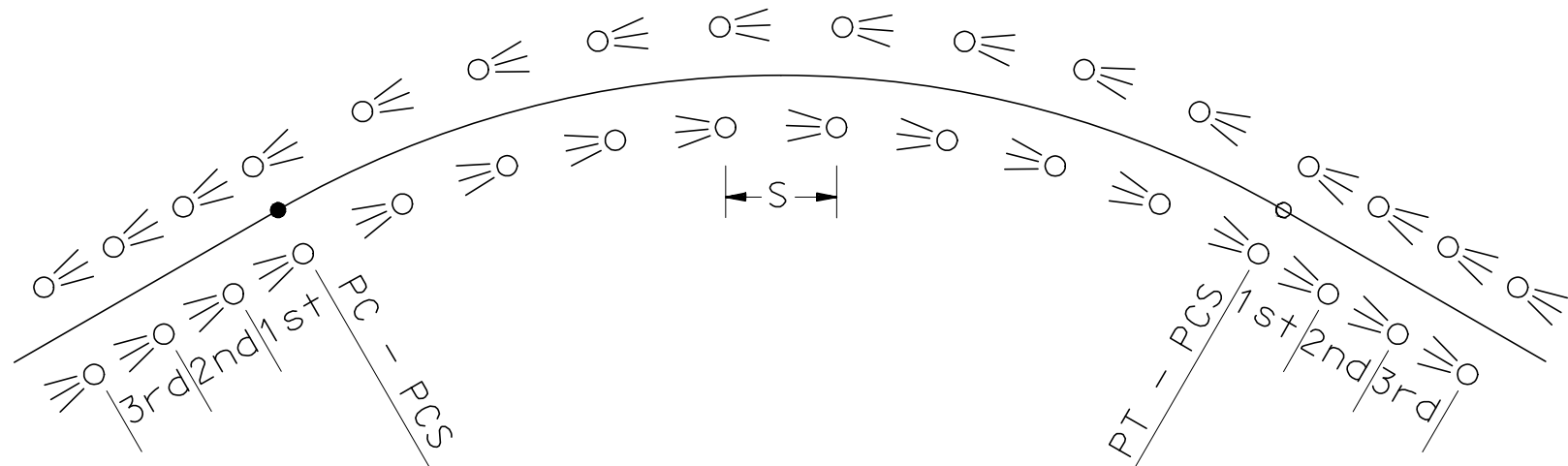
- NOTES:
1. CONTRACTOR SHALL OBTAIN A DISEASE NUMBER PRIOR TO COMMENCING ANY EXCAVATIONS.
 2. PROVIDE ALL NECESSARY TRAFFIC CONTROL PROTECTION PER THE TOWN OF HAMPTON POLICE DEPARTMENT. PROVIDE UNIFORMED POLICE OFFICER IF NECESSARY PER THE TOWN OF HAMPTON PD.
 3. REMOVE ALL STEEL GUARDRAIL AND WOOD POSTS. SALVAGE ANY SIGNS THAT MAY BE MOUNTED ON STEEL POSTS OR U-CHANNEL POSTS.
 4. ALL U-CHANNEL SIGN POSTS, PARKING SIGNS AND TRAFFIC SIGNS ARE TO REMAIN IN PLACE DURING THE COURSE OF THIS WORK.
 5. REPLACE WOOD POSTS, OFFSET BLOCKS, AND TIMBER RAILS.
 6. INSTALL NEW GALVANIZED BEAM GUARDRAIL IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS SECTION 606.
 7. CLEAN THE SITE OF ALL CONSTRUCTION DEBRIS AT THE END OF THE JOB.

GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH	DATE: MAR 27, 2013	
PROJECT # CAP-2301	APPROVED BY: ED MUSSEY	SCALE: 1" = 100'



STATE OF NEW HAMPSHIRE DEPARTMENT OF NATURAL AND CULTURAL RESOURCES DESIGN, DEVELOPMENT, AND MAINTENANCE SECTION	HAMPTON BEACH STATE PARK HAMPTON, NH
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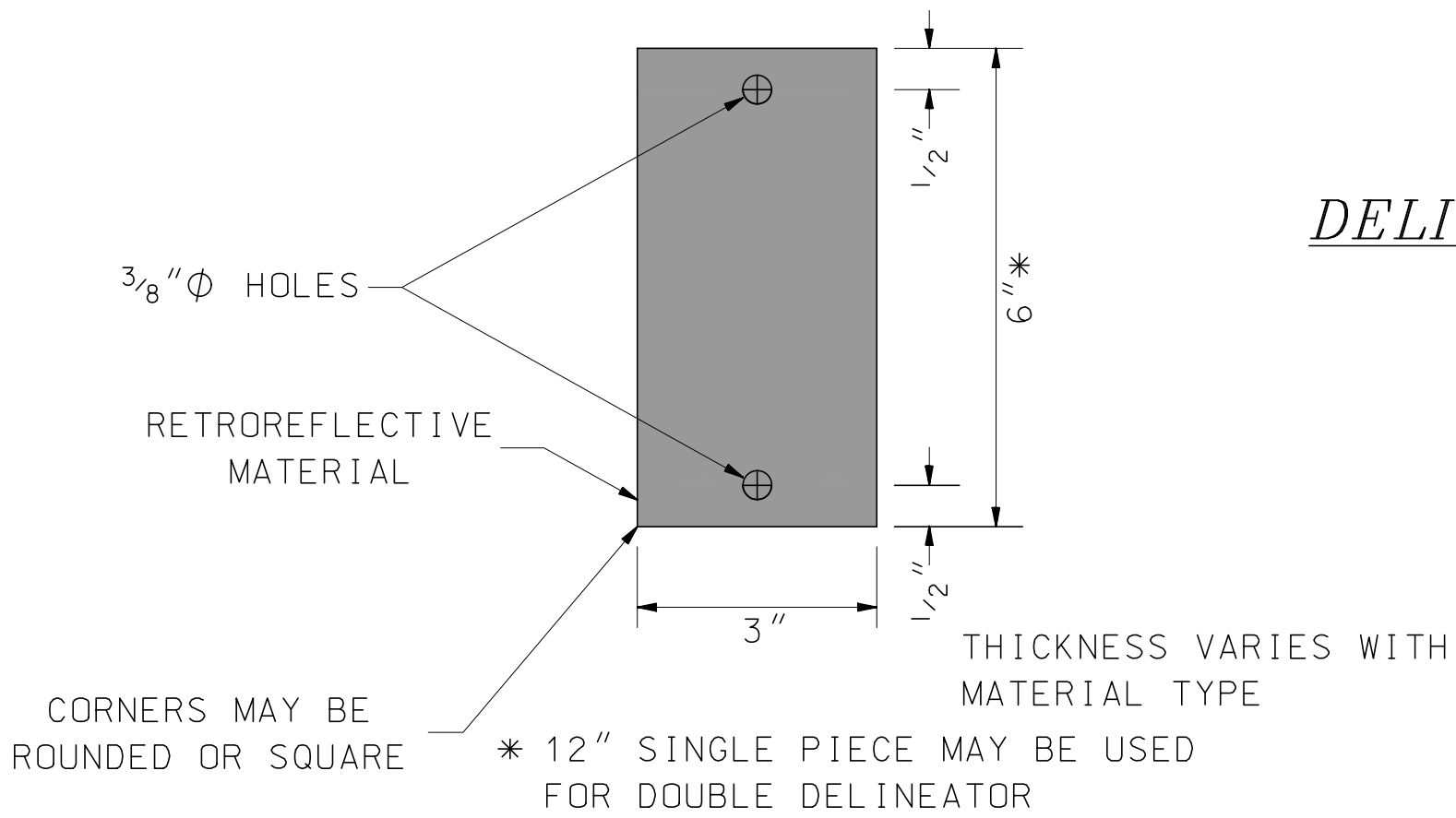
DELINEATOR SPACING



APPROXIMATE SPACING FOR
DELINEATORS ON HORIZONTAL CURVES

RADIUS OF CURVE (FT)	SPACING FOR BEAM GUARDRAIL DELINEATORS ON CURVE = S (FT)
≤ 50	18.75
> 50 BUT ≤ 115	25
> 115 BUT ≤ 180	25
> 180 BUT ≤ 250	25
> 250 BUT ≤ 300	50
> 300 BUT ≤ 400	50
> 400 BUT ≤ 500	50
> 500 BUT ≤ 600	50
> 600 BUT ≤ 700	75
> 700 BUT ≤ 800	75
> 800 BUT ≤ 900	75
> 900 BUT ≤ 1,000	75
> 1,000 ON MAINLINE	100

1. THE MINIMUM SPACING SHALL BE 18.75 FEET FOR BEAM GUARDRAIL DELINEATORS.

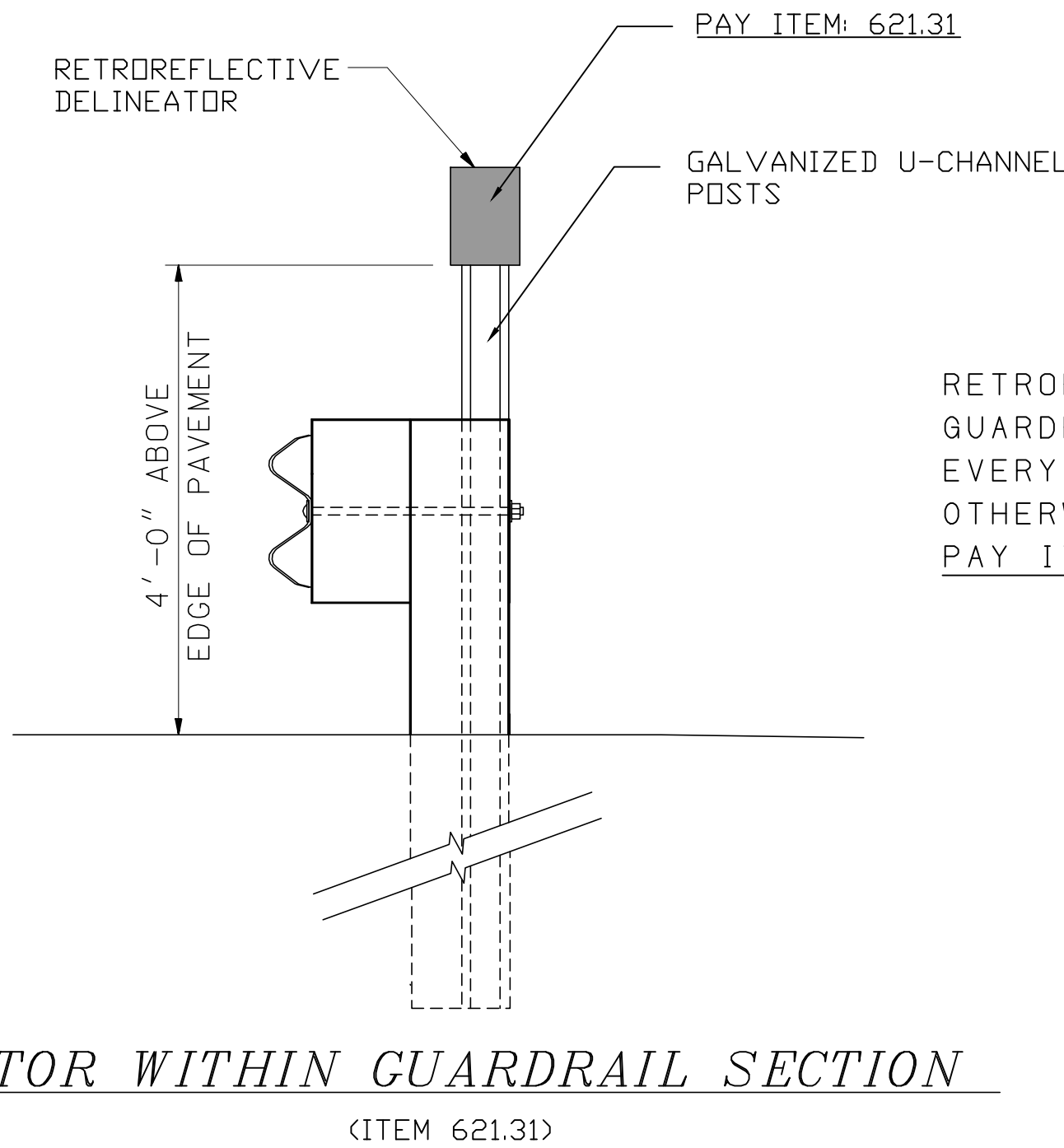


RETROREFLECTIVE DELINEATOR

(ITEM 621.3X, 621.4)

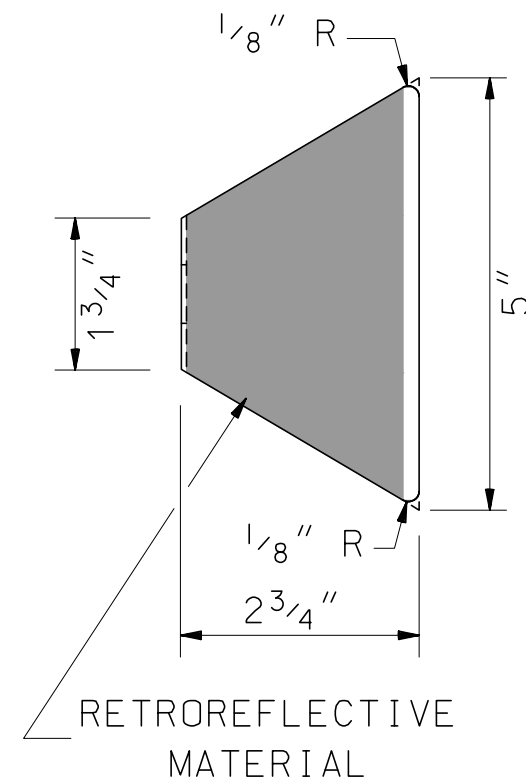
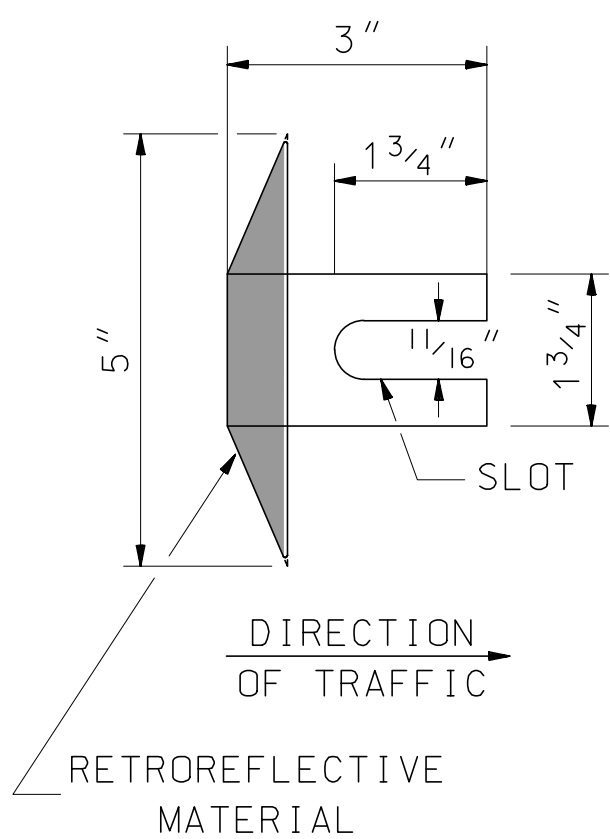
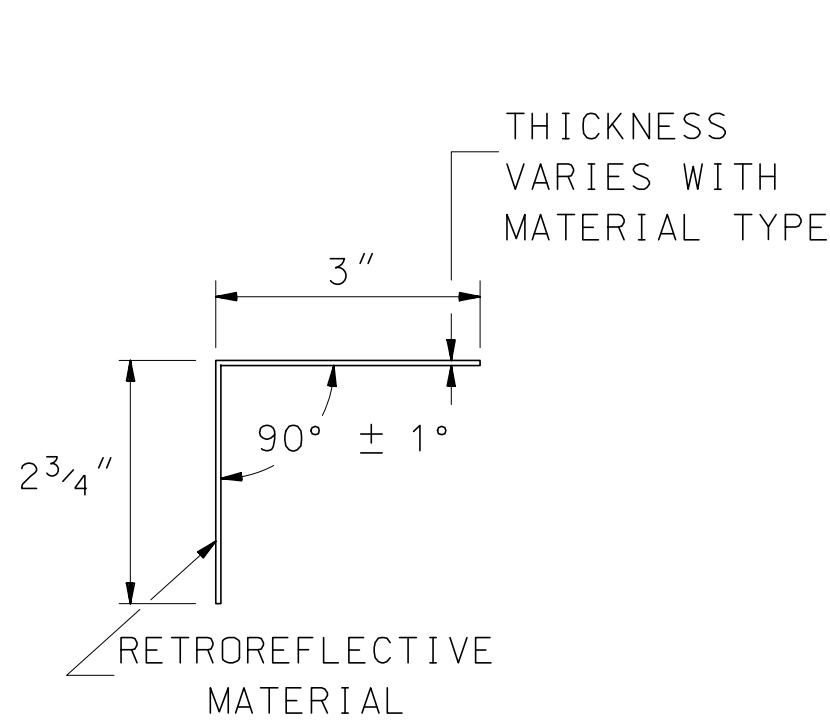
GENERAL NOTES

- DELINEATORS SHALL BE MOUNTED ALONG THE LEFT SIDE OF THE ROADWAY BEHIND GUARDRAIL ONLY. DELINEATORS SHALL BE INSTALLED SO THAT THE DELINEATOR POST IS ADJACENT TO THE TRAILING EDGE OF THE NEAREST GUARDRAIL POST.
- WHEN DELINEATION IS USED ONLY ON CURVES, THREE DELINEATORS SHALL BE PLACED BEFORE AND AFTER THE CIRCULAR PORTION OF THE CURVE.
- WHEN DELINEATION IS USED ON TANGENTS, THE SPACING SHALL BE 250 FEET. THE TANGENT SPACING SHALL BEGIN BEYOND THE SPACING REQUIREMENTS FOR CURVES.
- DELINEATOR COLORS SHALL IN ALL CASES CONFORM TO THE COLOR OF THE EDGELINES.
- DELINEATORS WILL NOT BE PLACED BEHIND SIDEWALK.



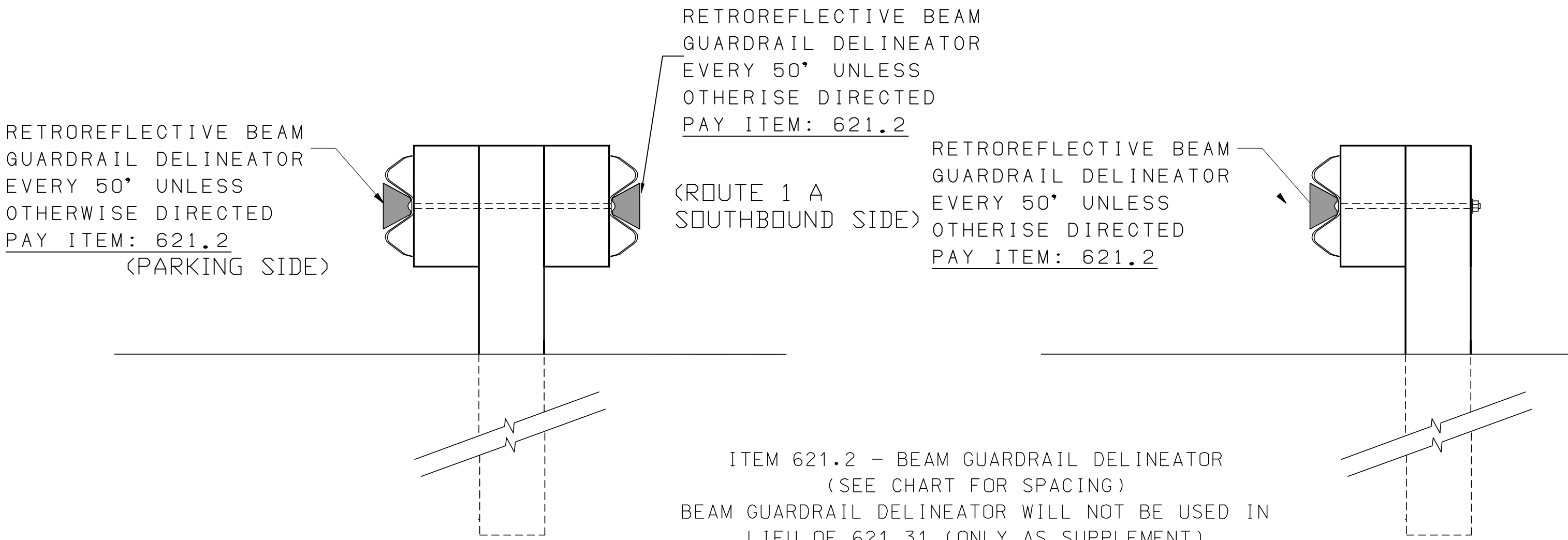
DELINEATOR WITHIN GUARDRAIL SECTION

(ITEM 621.31)



RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR

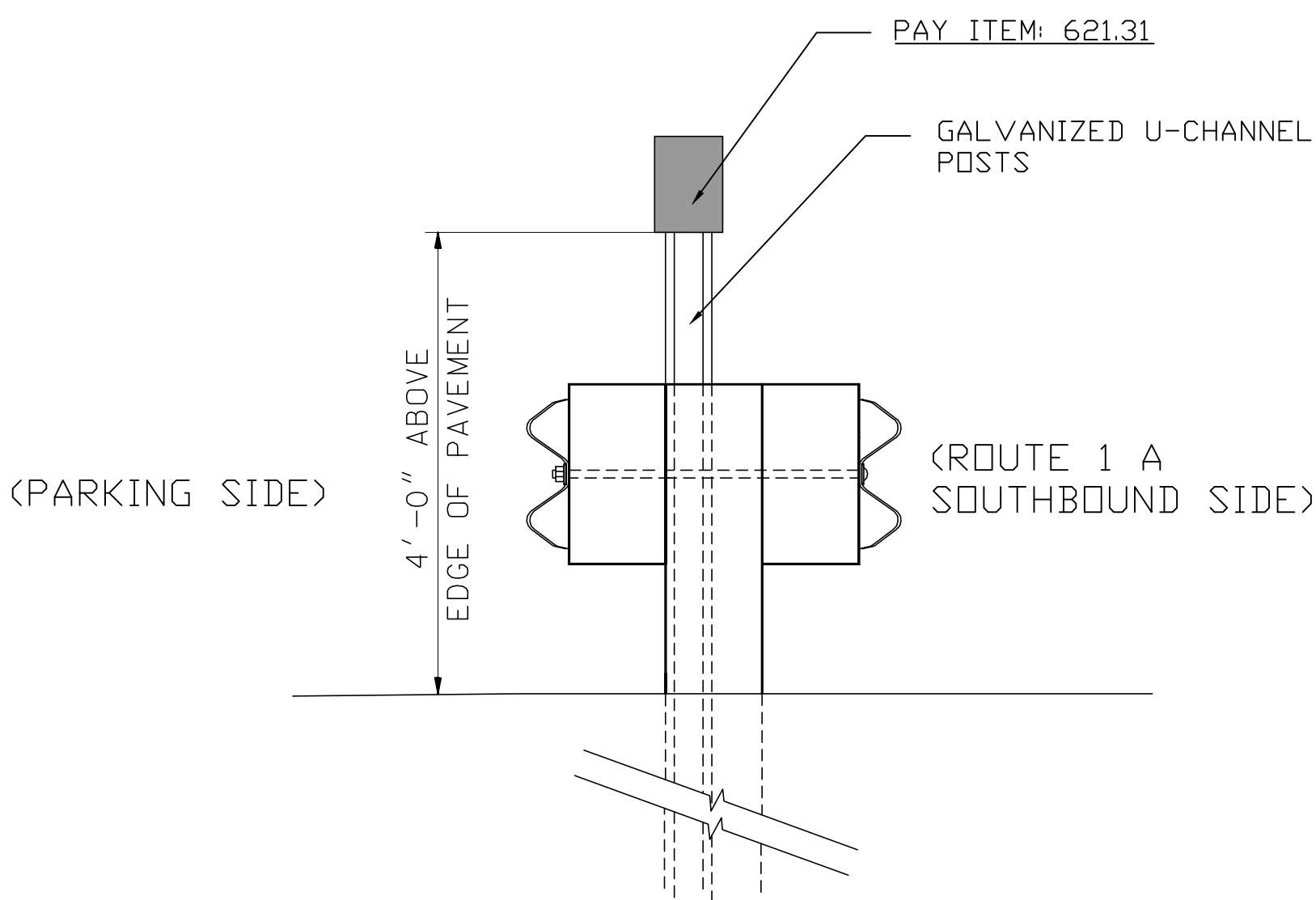
(ITEM 621.2)



ITEM 621.2 - BEAM GUARDRAIL DELINEATOR
(SEE CHART FOR SPACING)
BEAM GUARDRAIL DELINEATOR WILL NOT BE USED IN LIEU OF 621.31 (ONLY AS SUPPLEMENT)

RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR

(ITEM 621.2)



DELINEATOR WITHIN MEDIAN GUARDRAIL SECTION

NOTES:

- CONTRACTOR SHALL OBTAIN A DISEASE NUMBER PRIOR TO COMMENCING ANY EXCAVATIONS.
- PROVIDE ALL NECESSARY TRAFFIC CONTROL PROTECTION PER THE TOWN OF HAMPTON POLICE DEPARTMENT. PROVIDE UNIFORMED POLICE OFFICER IF NECESSARY PER THE TOWN OF HAMPTON PD.
- REMOVE ALL STEEL GUARDRAIL AND WOOD POSTS. SALVAGE ANY SIGNS THAT MAY BE MOUNTED ON STEEL POSTS OR U-CHANNEL POSTS.
- ALL U-CHANNEL SIGN POSTS, PARKING SIGNS AND TRAFFIC SIGNS ARE TO REMAIN IN PLACE DURING THE COURSE OF THIS WORK.
- REPLACE WOOD POSTS, OFFSET BLOCKS, AND TIMBER RAILS.
- INSTALL NEW GALVANIZED BEAM GUARDRAIL IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS SECTION 608.
- CLEAN THE SITE OF ALL CONSTRUCTION DEBRIS AT THE END OF THE JOB.

GUARDRAIL REPLACEMENT AT HAMPTON BEACH STATE PARK HAMPTON, NH	DATE: MAR 27, 2013	
	PROJECT # CAP-2301	SCALE: 1" = 100'
APPROVED BY:		DRAWN BY: ED MUSSEY



STATE OF NEW HAMPSHIRE DEPARTMENT OF NATURAL AND CULTURAL RESOURCES	DESIGN, DEVELOPMENT, AND MAINTENANCE SECTION
HAMPTON BEACH STATE PARK HAMPTON, NH	

SHEET

7

OF 7