

Date: 12/13/2021

Username:

Division:

Filename: 001_Title.dgn

PLAN LEGEND

Town, County, State	_____	Catch Basins	▣ Existing	▣ Proposed
Property Lines	-----	Manholes	○ Existing	● Proposed
R/W Lines-Existing	-----	Proposed Underdrain	-----	
R/W Lines-Proposed	-----	Proposed Ditch	-----	
Culvert-Existing	-----	Existing Ditch	-----	
Culvert Proposed	-----	Utility Poles	◇ Existing	◆ Proposed
Curbing Existing	-----	Fire Hydrants	⊙ Existing	⊙ Proposed
Type 1	-----	Existing Water Line	-----	
Type 3	-----	Existing San. Sewer	-----	
Type 5	-----	Existing San. Sewer Manhole	⊙	
Outline of Bodies of Water	-----	Guardrail-Existing	-----	
Exposed Bedrock	-----	Guardrail-Proposed	-----	
Buildings	-----	Guardrail-Cable, Other	-----	
Trees	◀ Conifer ⊗ Deciduous	Centerline-Existing	-----	
Tree Line	-----	Centerline-Proposed	-----	
Clearing Limit Line	-----	Travelway-Existing	-----	
Railroad	-----	Travelway-Proposed	-----	
Boring	⊕ HB-XXX-###	Probe	⊕ P-#.X	
Pavement Core	● PC-#	#, # = Depth		
Test Pit	⊕ TP-XXX-###	X = W (Weathered Rock)		
		R (Refusal)		
		NR (No Refusal)		

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

HNTB



PORTLAND

CUMBERLAND COUNTY

INTERSTATE 295

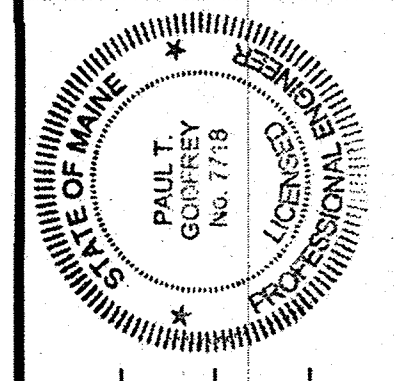
FEDERAL PROJECT 2239400

PROJECT LENGTH: 1.16 MILES

INDEX OF SHEETS

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Title Sheet	1
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Plans	4-6
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER		2-8-22
CHIEF ENGINEER		12-9-2021

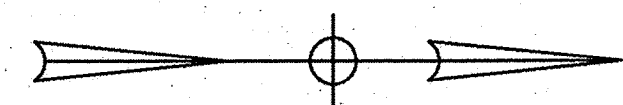
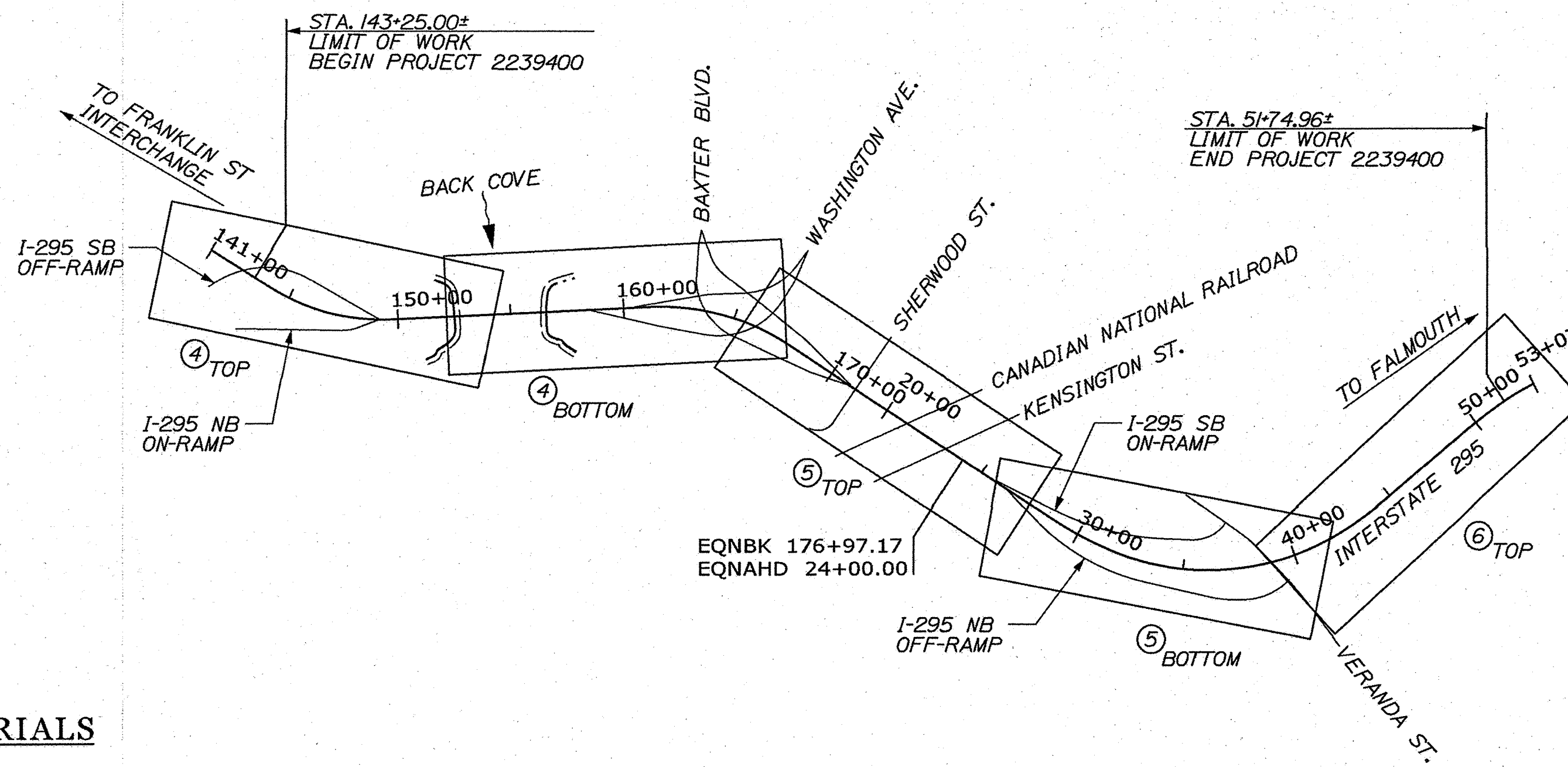


M.H.
SIGNATURE
7/18
P.E. NUMBER
12/15/21
DATE

PROJECT INFORMATION	
PROGRAM	SHAWM SMITH
PROJECT MANAGER	RAYMOND HANE
DESIGNER	HNTB
DESIGNER	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

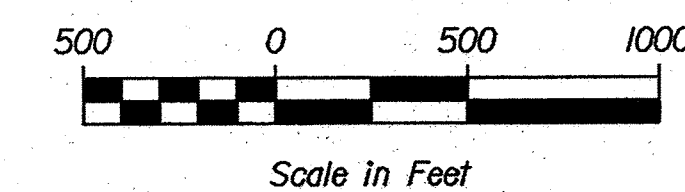
TRAFFIC DATA

	Northbound	
	Corridor Min.	Max.
Current (2022) AADT	27,810	45,690
Future (2034) AADT	31,150	51,170
DHV - % of AADT	12%	11%
Design Hour Volume	3,738	5,629
Design Speed (mph)	50	50



⊗ REPRESENTS SHEET ORDER WITHIN PLAN SET.
TWO PANES PER PLAN SHEET (TOP/BOTTOM).

LAYOUT SCALE



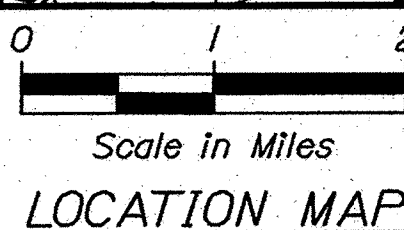
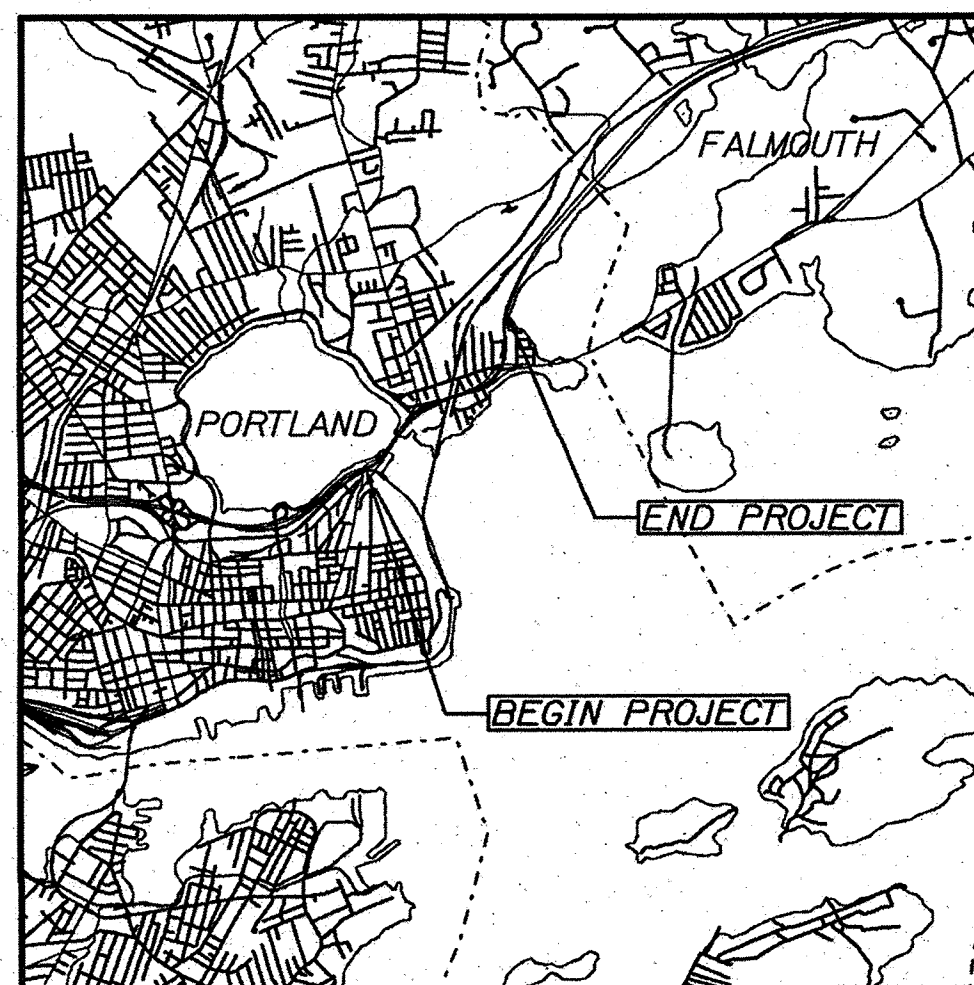
MATERIALS

Concrete:	
Precast	Class "LP"
All Other	Class "LP"
Reinforcing	ASTM A955, Grade 75

BASIC DESIGN STRESSES

Concrete	f'c = 5,000 psi
Stainless Steel Reinforcing	f'y = 75,000 psi

PROJECT LOCATION:	In the City of Portland along Interstate 295, immediately North of the Washington Southbound Bridge extending 1.16 miles North to 0.23 miles North of the Veranda Street Bridge
PROGRAM AREA:	Highway Program - Interstate
OUTLINE OF WORK:	Existing median concrete barrier removal, drainage modifications, and precast concrete barrier installation in median



WIN 22394.00 FEDERAL PROJECT 2239400

PORTLAND
I-295 MEDIAN BARRIER

TITLE SHEET

SHEET NUMBER

1

OF 24

Date: 12/15/2021

Username:

Division:

Filename: 002_GenNotes.dgn

GENERAL NOTES

- ALL EXISTING DIMENSIONS, ANGLES AND STATIONING SHOWN IN THESE PLANS ARE TAKEN FROM AS-BUILT CONSTRUCTION DRAWINGS, SUPPLEMENTED BY LIDAR SURVEY AND LIMITED FIELD MEASUREMENTS, AND ARE NOT GUARANTEED TO BE CORRECT. ALL EXISTING BRIDGE, HIGHWAY AND DRAINAGE INFORMATION SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCING WORK AND PRIOR TO SUBMITTING SHOP DRAWINGS.
- INSTALLATION OF BARRIER REFLECTORS WILL BE CONSIDERED INCIDENTAL TO PAY ITEM 526.501, PRECAST CONCRETE MEDIAN BARRIER.
- WITH THE EXCEPTION OF MATERIAL TO BECOME PROPERTY OF THE DEPARTMENT, ALL EXISTING MATERIALS WHICH ARE REMOVED FROM THE WORK AREA SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR. THESE EXISTING MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, BITUMINOUS PAVEMENT, CONCRETE BARRIER, REINFORCING STEEL, SILT AND OTHER DEBRIS.
- ALL WORK SHALL CONFORM TO MAINEDOT STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, UNLESS OTHERWISE NOTED HEREIN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY FIELD SURVEY AND THE LAYOUT OF THE CONSTRUCTION BASELINE AS NECESSARY TO COMPLETE THE WORK. ALL BASELINE LAYOUT INFORMATION SHALL BE CHECKED AND APPROVED BY THE RESIDENT PRIOR TO STARTING BARRIER INSTALLATION WORK. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF THE EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
- PROPOSED STATIONS REFERENCED ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL CALCULATE AND PROVIDE ACCURATE STATIONING BASED ON THEIR SURVEY AND SHOP DRAWING PROCESS.
- PAVEMENT SAWCUTTING, WHERE REQUIRED, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO THE RELATED CONTRACT ITEMS.
- PROJECT INFORMATION MAY BE ACCESSED AT THE FOLLOWING MAINEDOT WEB ADDRESS: [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/INDEX.SHTML](http://www.maine.gov/mdot/contractors/index.shtml)
- ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- EXISTING CULVERTS AND CATCH BASINS WILL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER THE APPROPRIATE PAY ITEMS.
- CATCH BASINS SHALL BE EVALUATED IN THE FIELD AND PROPOSED WORK SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE RESIDENT. THE ESTIMATE ASSUMES HALF REBUILDING CATCH BASIN AND HALF ADJUSTING MANHOLE OR CATCH BASIN TO GRADE.
- TOP OF GRATE SHALL MATCH THE EXISTING SURFACE CROSS SECTION AND PROFILE AND BE FLUSH WITH THE FACE OF CONCRETE BARRIER.

UTILITIES

- UTILITIES IN THIS CONTRACT ARE LISTED IN SPECIAL PROVISION SECTION 104, UTILITIES.
- ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED. NO UTILITY ADJUSTMENT IS ANTICIPATED.
- THE LOCATIONS OF THE EXISTING UTILITIES, BRIDGE WIRING AND MONITORING INSTRUMENTS (I.E. UTILITIES AND SPECIAL EQUIPMENT) SHOWN ON THESE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND SPECIAL EQUIPMENT PRIOR TO STARTING WORK. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND SPECIAL EQUIPMENT DURING CONSTRUCTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE WORK REQUIRED UNDER ITEM 659.10 MOBILIZATION.

STRUCTURAL

- PRIOR TO FABRICATING THE PRECAST CONCRETE BARRIER AND REINFORCING STEEL THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS OF THE PROPOSED MEDIAN BARRIER LAYOUT AND ITS' COMPONENTS IN ACCORDANCE WITH SPECIAL PROVISION 526.
- REINFORCING STEEL SCHEDULES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO SPECIAL PROVISION 526 FOR ADDITIONAL INFORMATION. PAYMENT FOR ALL WORK ASSOCIATED WITH DEVELOPING REINFORCING STEEL SCHEDULES WILL BE CONSIDERED INCIDENTAL TO THE PRECAST CONCRETE MEDIAN BARRIER PAY ITEM.
- ALL CONCRETE REINFORCING SHALL HAVE A 2.5 INCH MINIMUM COVER UNLESS OTHERWISE NOTED.
- PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED TO THE FOLLOWING AREAS OF NEW PRECAST OR CAST-IN-PLACE CONCRETE: ALL EXPOSED SURFACES OF CONCRETE MEDIAN BARRIERS AND TRANSITION BARRIERS INCLUDING BARRIER ENDS.
- WHERE REINFORCING STEEL WILL BE DRILLED AND GROUTED IN PLACE THE ANCHORING MATERIAL SHALL BE SELECTED FROM MAINEDOT'S QUALIFIED PRODUCTS LIST. THE CONTRACTOR SHALL SUBMIT THE PROPOSED SYSTEM TO THE RESIDENT FOR APPROVAL. THE SELECTED ANCHORING MATERIAL SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REINFORCING STEEL DRILLED AND ANCHORED INTO EXISTING CONCRETE SHALL BE EMBEDDED TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.
- ALL PROPOSED BARRIER CONNECTION COMPONENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- ALL CONCRETE REINFORCING SHALL BE STAINLESS STEEL CONFORMING TO ASTM A955 IN ACCORDANCE WITH SPECIAL PROVISIONS 526. REINFORCING SHALL NOT BE MEASURED FOR PAYMENT SEPARATELY, BUT SHALL BE INCIDENTAL TO THE PAY ITEM 526.501, PRECAST CONCRETE MEDIAN BARRIER.
- ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
- THE TOP OF THE MEDIAN BARRIER SHALL BE FLUSH ACROSS ALL JOINTS. THE TOP OF THE BARRIER, EXCEPT AS REQUIRED AT HEIGHT TRANSITIONS, SHALL BE PARALLEL TO THE PAVEMENT SURFACE AT THE EDGE OF TRAVELWAY.
- CONTRACTOR SHALL REPAIR AREAS OF CONCRETE ON THE EXISTING MEDIAN BARRIER TO REMAIN AS DIRECTED BY THE RESIDENT. PAYMENT FOR CONCRETE REPAIR WORK SHALL BE UNDER THE 518 PAY ITEM.

CONSTRUCTION PHASING

- THE CONTRACTOR SHALL NOTE CONSTRUCTION TIME RESTRICTIONS EXIST. SEE SPECIAL PROVISIONS 105 AND 107 FOR SPECIFIC TIME RESTRICTIONS AND LIMITATIONS OF OPERATIONS.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR THE PROJECT IN ACCORDANCE WITH SPECIAL PROVISIONS 105, 107 & 652 AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, USDOT, FHWA, LATEST EDITION.
- AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL PROVIDE MASH COMPLIANT END TREATMENTS, NO BLUNT ENDS, TWO LANES OF TRAFFIC IN EACH DIRECTION, AND ALL CONFLICTING SIGNS SHALL BE COVERED.
- ALL PAVEMENT DROPOFFS SHALL BE FILLED WITH PAVEMENT GRINDINGS GRADED TO DRAIN WITH A MAXIMUM SLOPE OF 4%. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE RELATED CONTRACT ITEMS.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT 2239400

WIN
22394.00

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

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OF 24



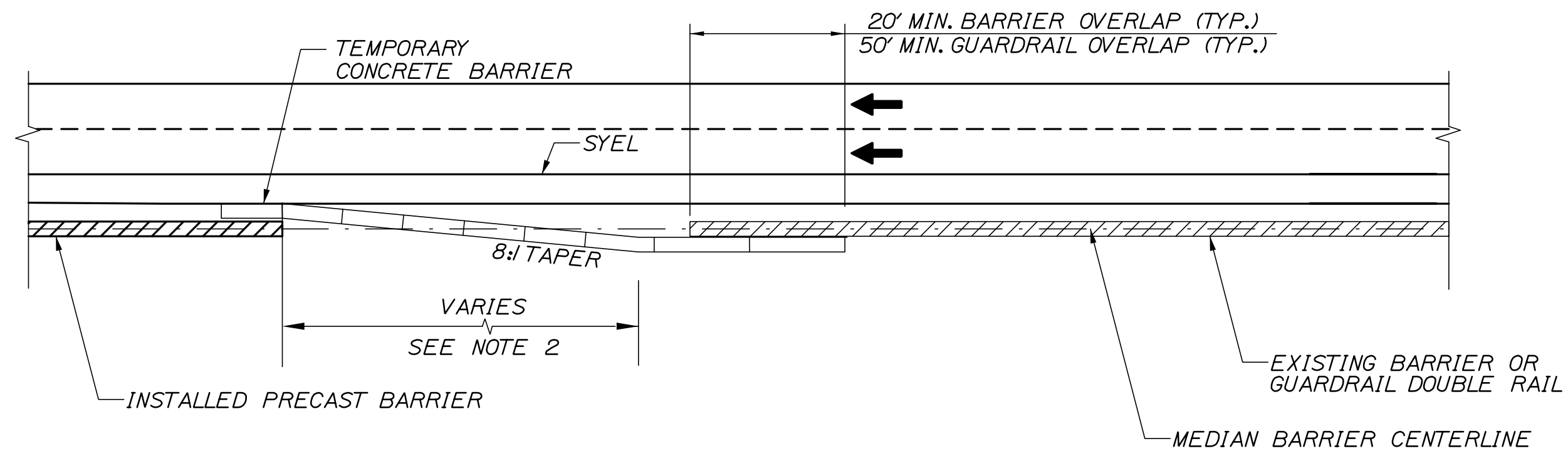
PORTLAND
I-295 MEDIAN BARRIER
GENERAL NOTES

Date: 12/15/2021

Username:

Division:

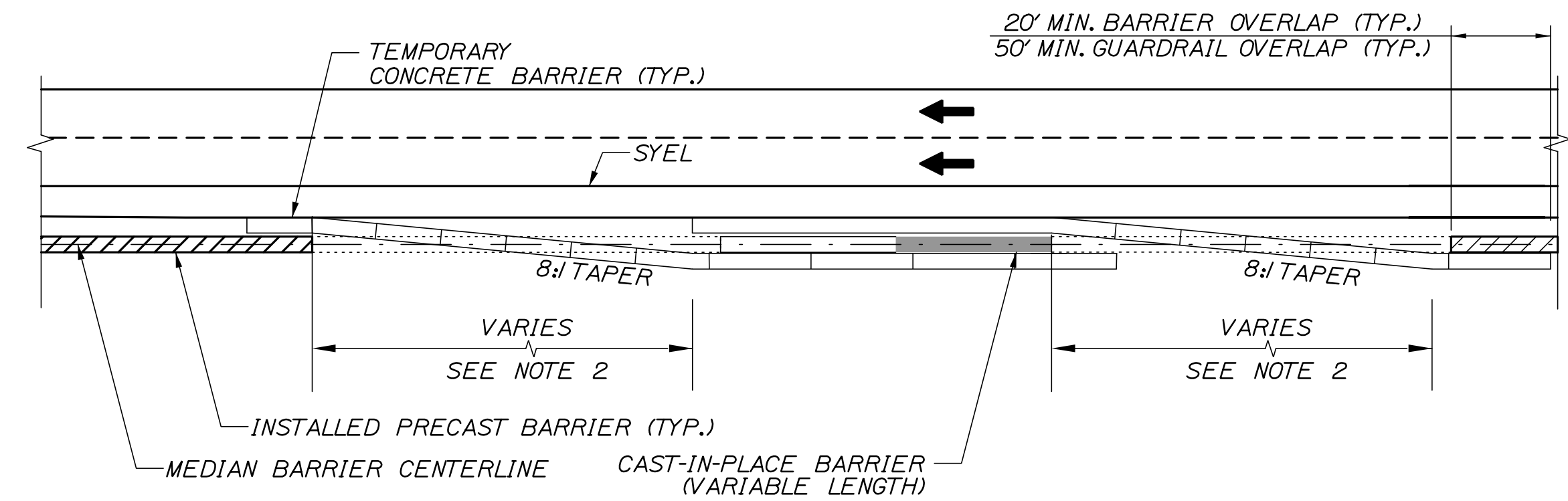
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NOTES:

1. BARRIER ENDS SHALL BE PROTECTED BY A TEMPORARY WORK ZONE CRASH CUSHION OR LAPPED BEHIND EXISTING BARRIER OR GUARDRAIL.
2. 8:1 TAPERED BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO I-295 SHOULDERS, LANES, AND THE CONTRACTORS OPERATION.
3. IF A TEMPORARY WORK ZONE CRASH CUSHION IS USED, THE WORK ZONE CRASH CUSHION SYSTEM MUST BE FOUNDED ON A LEVEL SURFACE. ANY WORK NECESSARY TO PROVIDE A LEVEL SURFACE WILL BE INCIDENTAL TO THE WORK ZONE CRASH CUSHION ITEM.
4. A MASH COMPLIANT IMPACT ATTENUATION SYSTEM SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH RUN OF CONCRETE BARRIER.

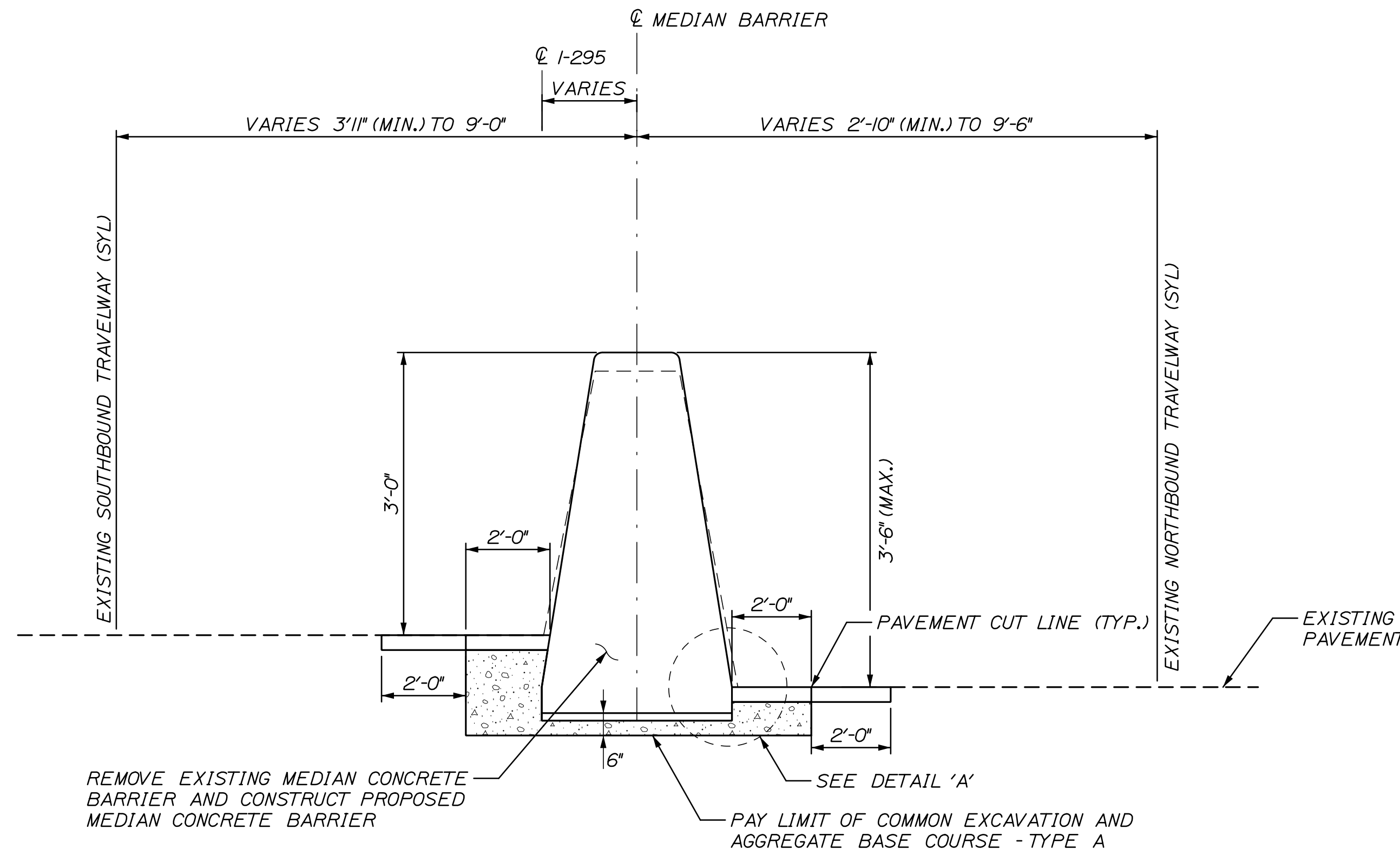
CONCRETE BARRIER OVERLAP DETAIL
NOT TO SCALE



NOTES:

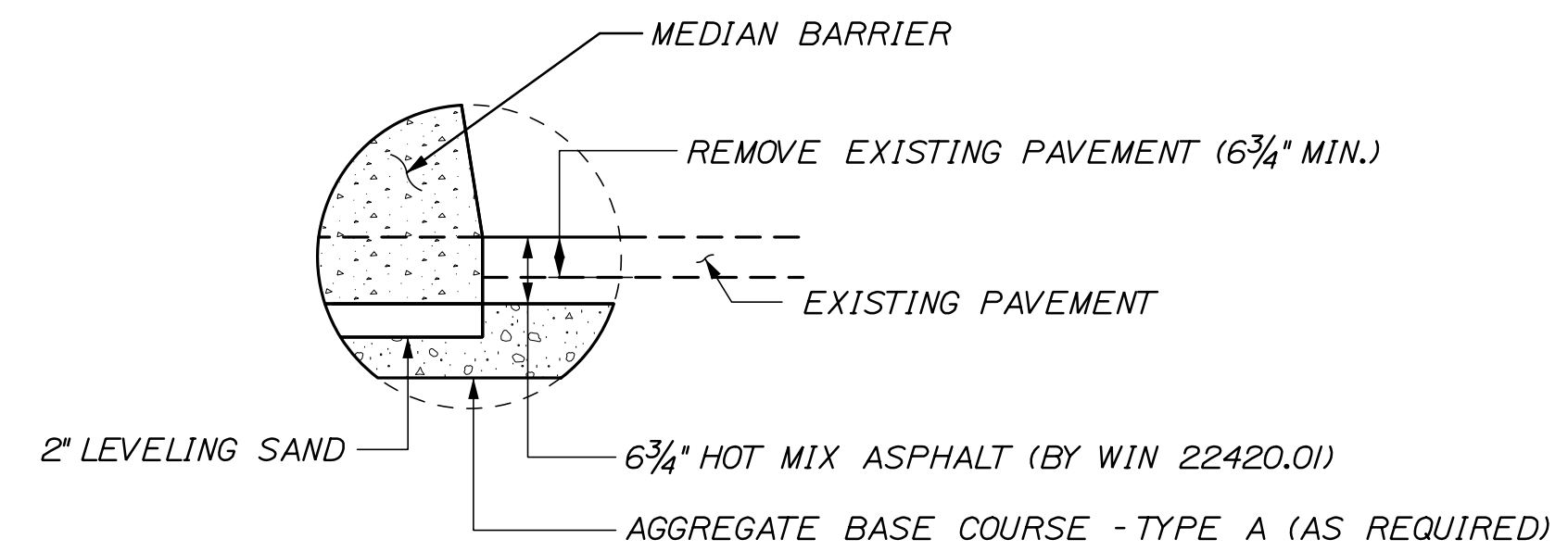
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4. A MASH COMPLIANT IMPACT ATTENUATION SYSTEM SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH RUN OF CONCRETE BARRIER.
5. CONTRACTOR TO VERIFY BARRIER GAP MATCHES EXACT LENGTHS OF PRECAST BARRIER PIECES PRIOR TO FORMING CAST-IN-PLACE BARRIER

CAST IN PLACE CONCRETE BARRIER DOUBLE OVERLAP DETAIL
NOT TO SCALE



TYPE A MEDIAN BARRIER

- 143+35 TO 149+40
- 150+70 TO 151+74
- 157+38 TO 164+84
- 166+84 TO 170+74
- 176+68 TO 37+00
- 39+84 TO 51+47



DETAIL 'A'

NOTES:

1. 2" OF LEVELING SAND TO BE USED ON TOP OF GRAVEL TO SET BARRIER. PAYMENT IS INCIDENTAL TO ITEM 526.501, PRECAST CONCRETE MEDIAN BARRIER.
2. VERTICAL FACES OF THE BASE AND SURFACE PAVEMENT SHALL BE COATED WITH HOT RUBBERIZED ASPHALT (INCIDENTAL TO PAVEMENT ITEMS).
3. PROPOSED WIN 22420.01 WORK NOT SHOWN FOR CLARITY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT 2239400

WIN 22394.00
HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER

MISCELLANEOUS DETAILS

SHEET NUMBER

3

OF 24



Date: 12/15/2021

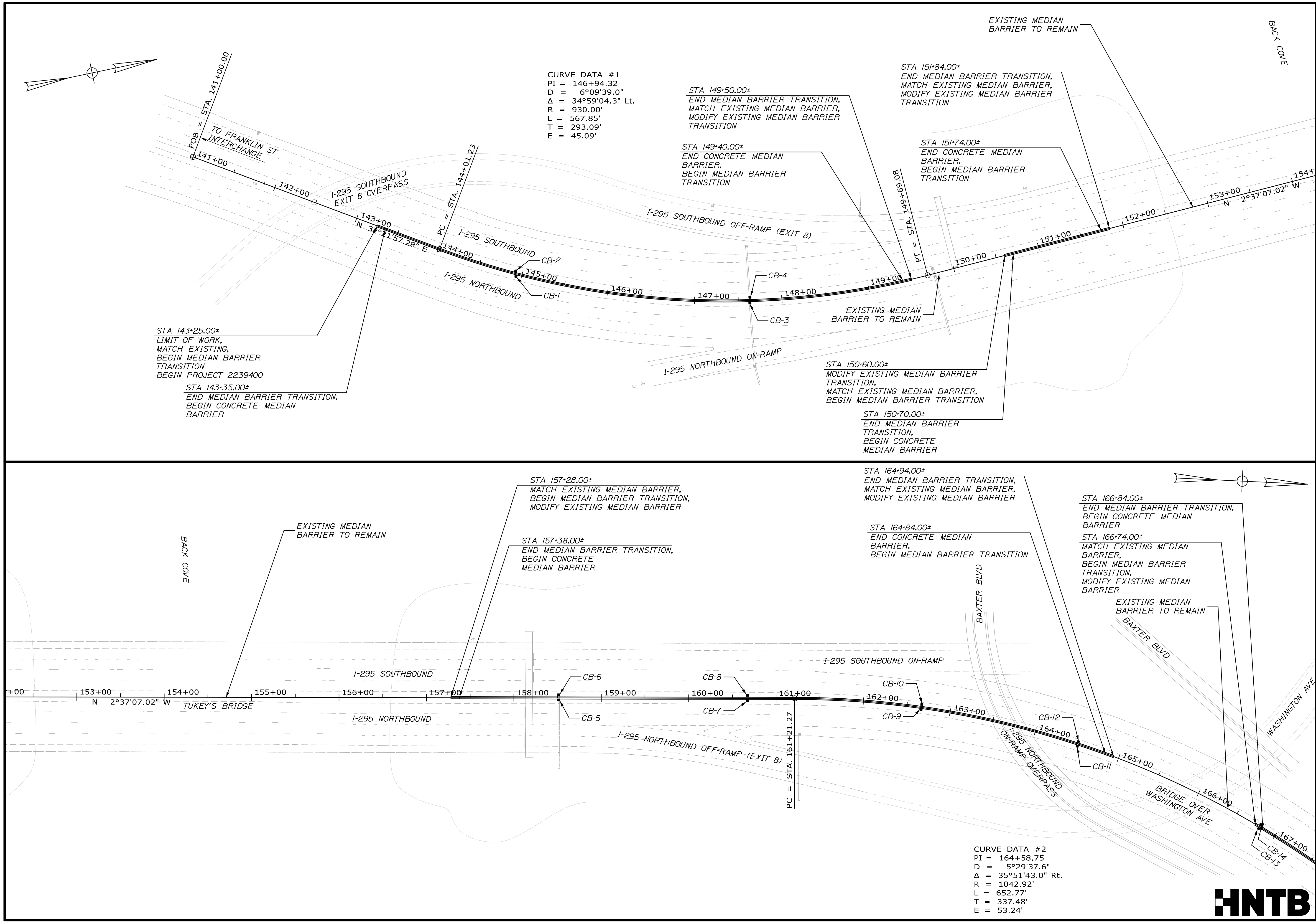
Username:

Division:

Filename: 004_HDP\plan_001.dgn

CURVE DATA #1
 PI = 146+94.32
 D = 6°09'39.0"
 Δ = 34°59'04.3" Lt.
 R = 930.00'
 L = 567.85'
 T = 293.09'
 E = 45.09'

CURVE DATA #2
 PI = 164+58.75
 D = 5°29'37.6"
 Δ = 35°51'43.0" Rt.
 R = 1042.92'
 L = 652.77'
 T = 337.48'
 E = 53.24'



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 FEDERAL PROJECT 2239400
 WIN
 22394.00
 HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

DATE	SIGNATURE	P.E. NUMBER	DATE
12/21			
12/21			
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PORTLAND
 I-295 MEDIAN BARRIER
 PLANS

SHEET NUMBER
 4
 OF 24

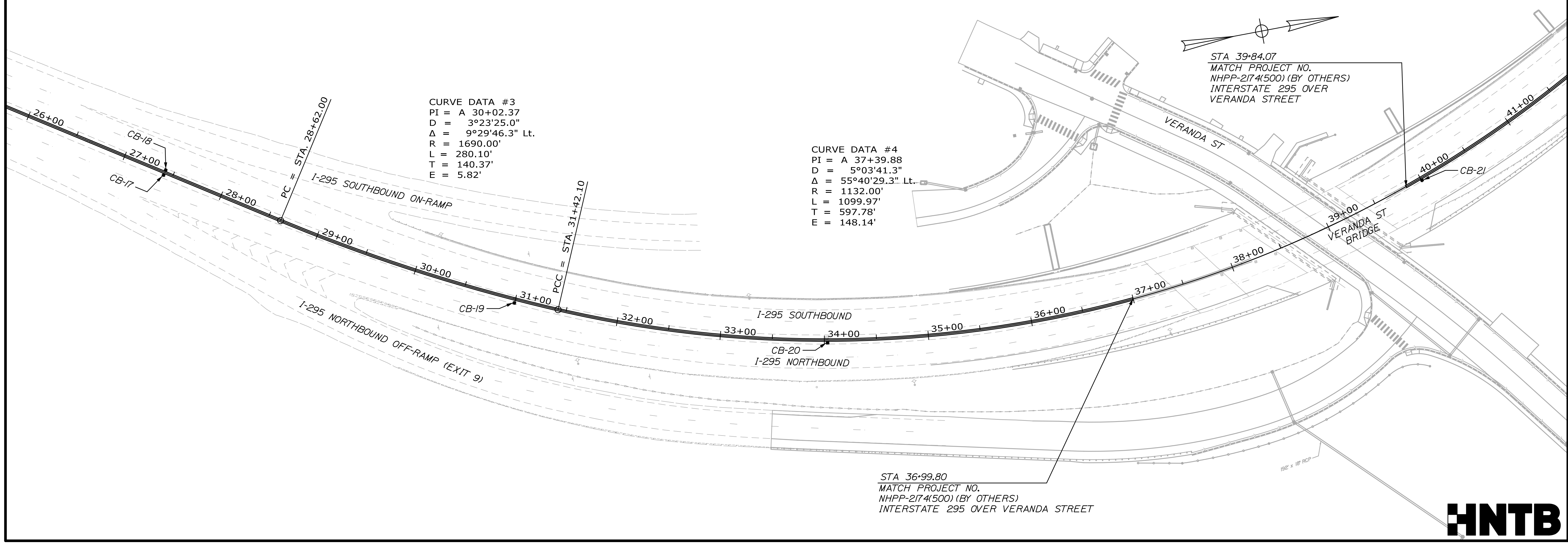
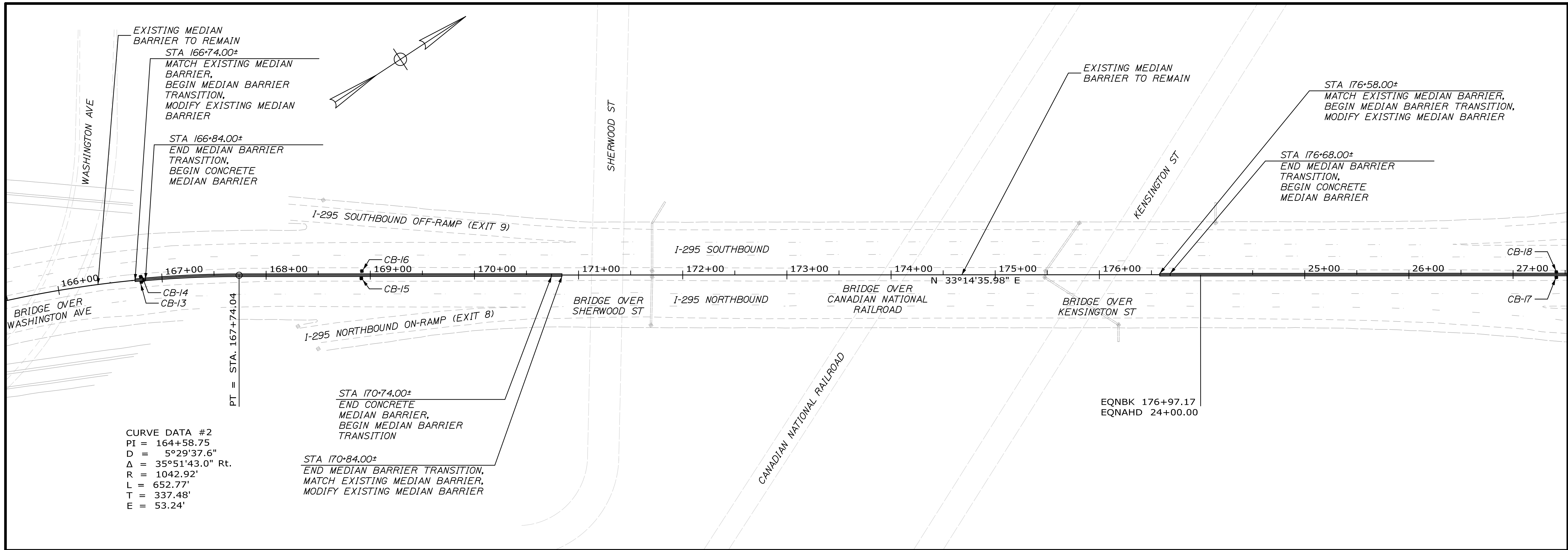


Date: 12/15/2021

Username:

Division:

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STATE OF MAINE
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 FEDERAL PROJECT 2239400
 WIN 22394.00
 HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
 I-295 MEDIAN BARRIER
 PLANS

SHEET NUMBER
 5
 OF 24

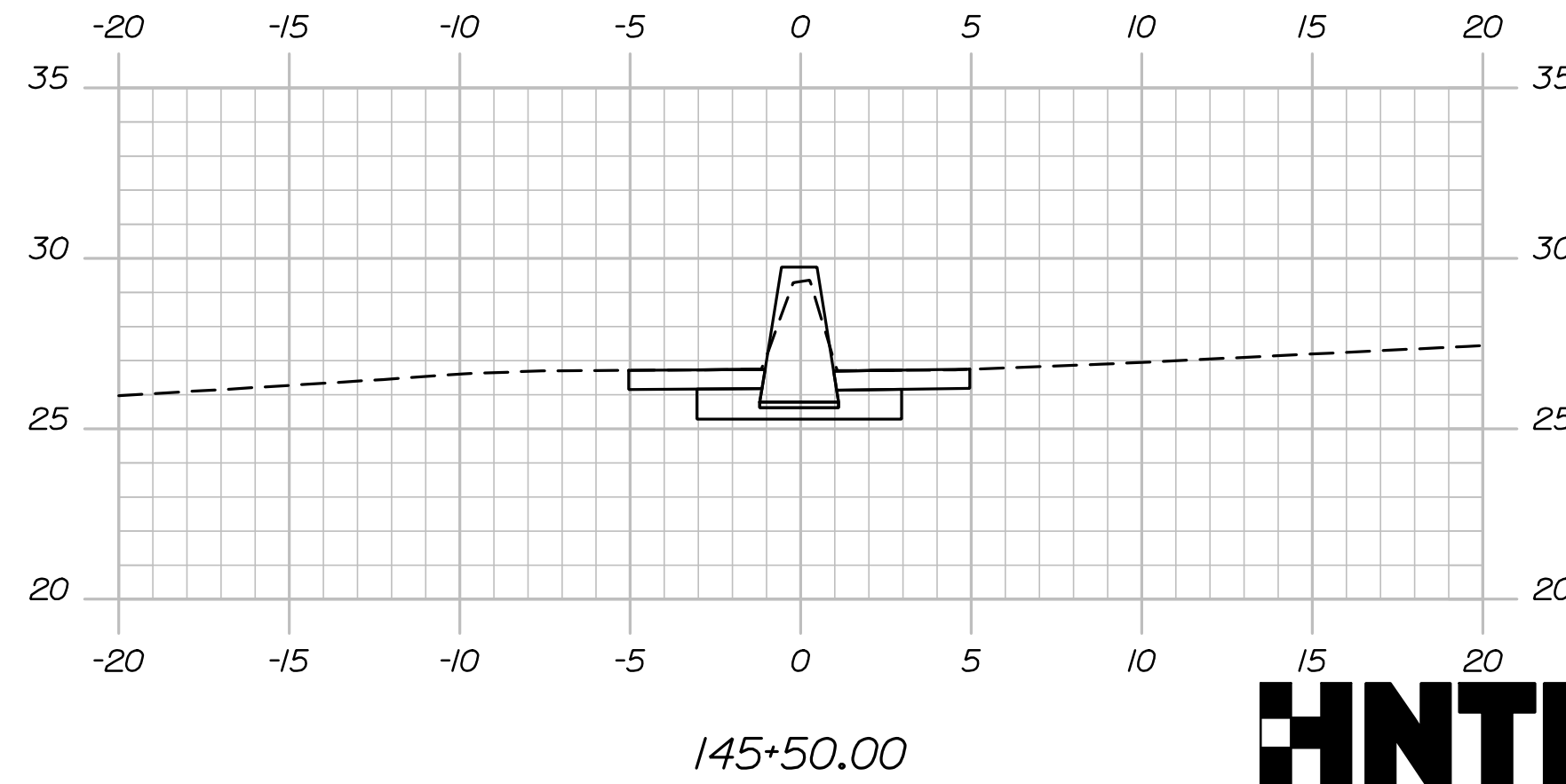
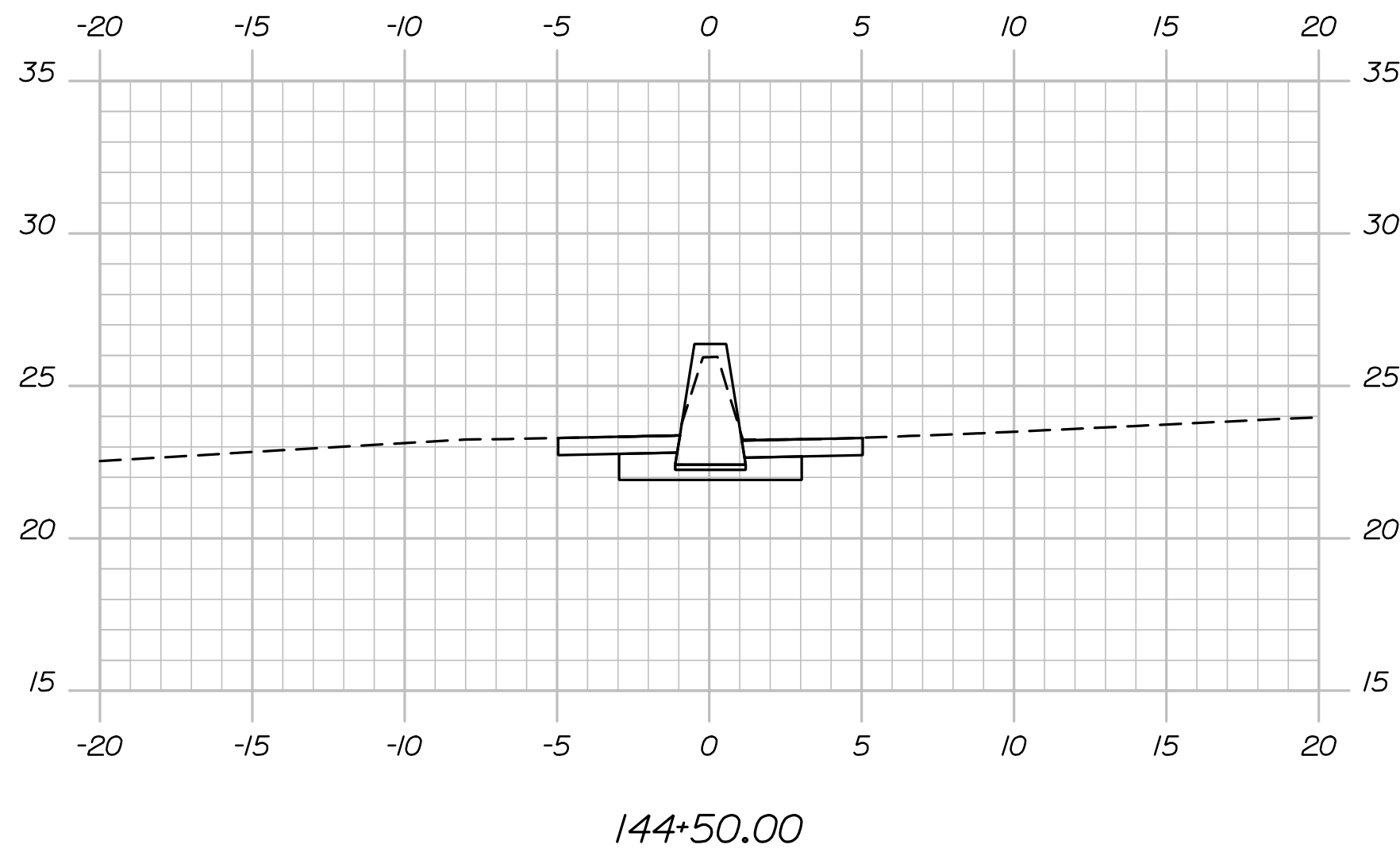
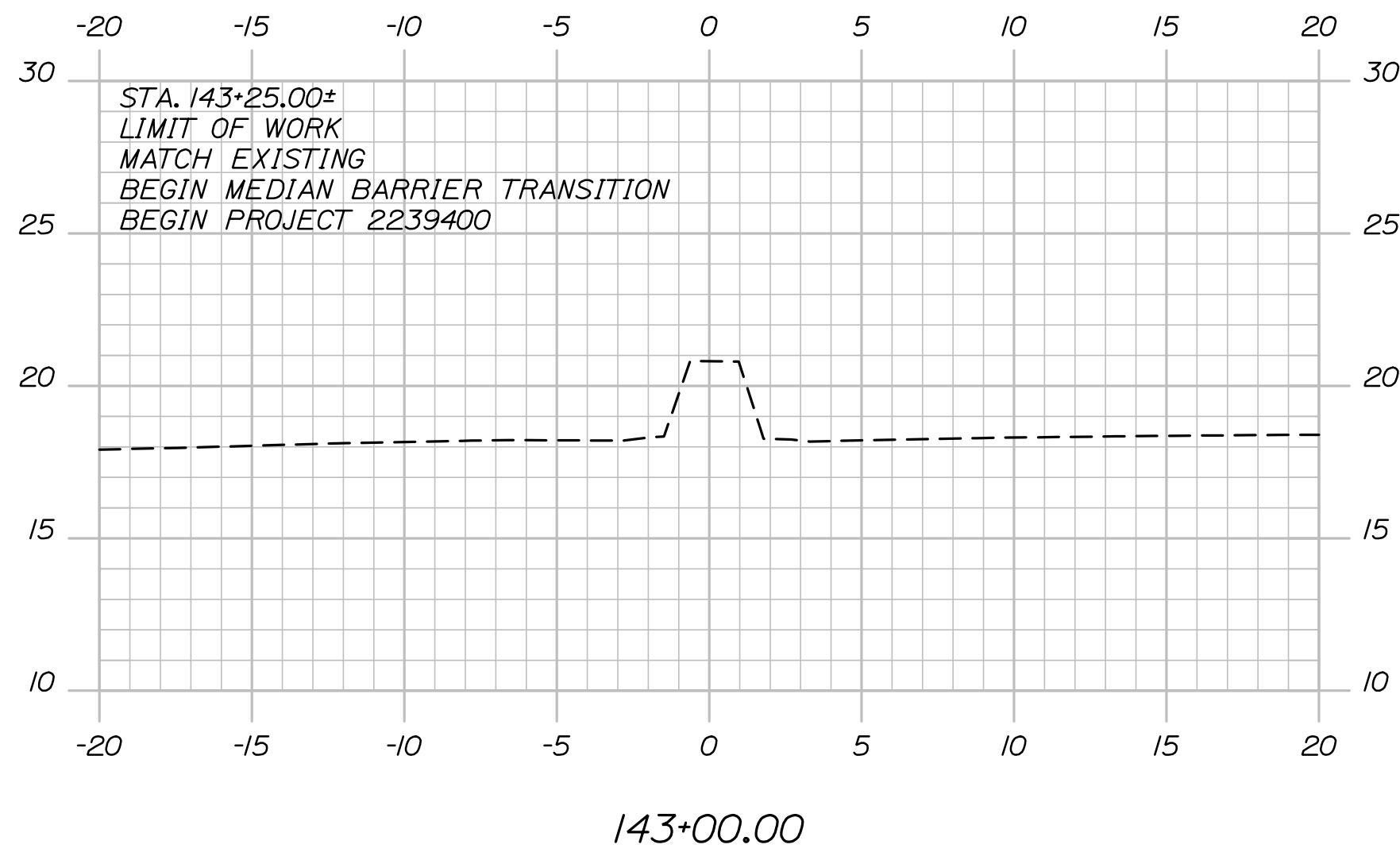
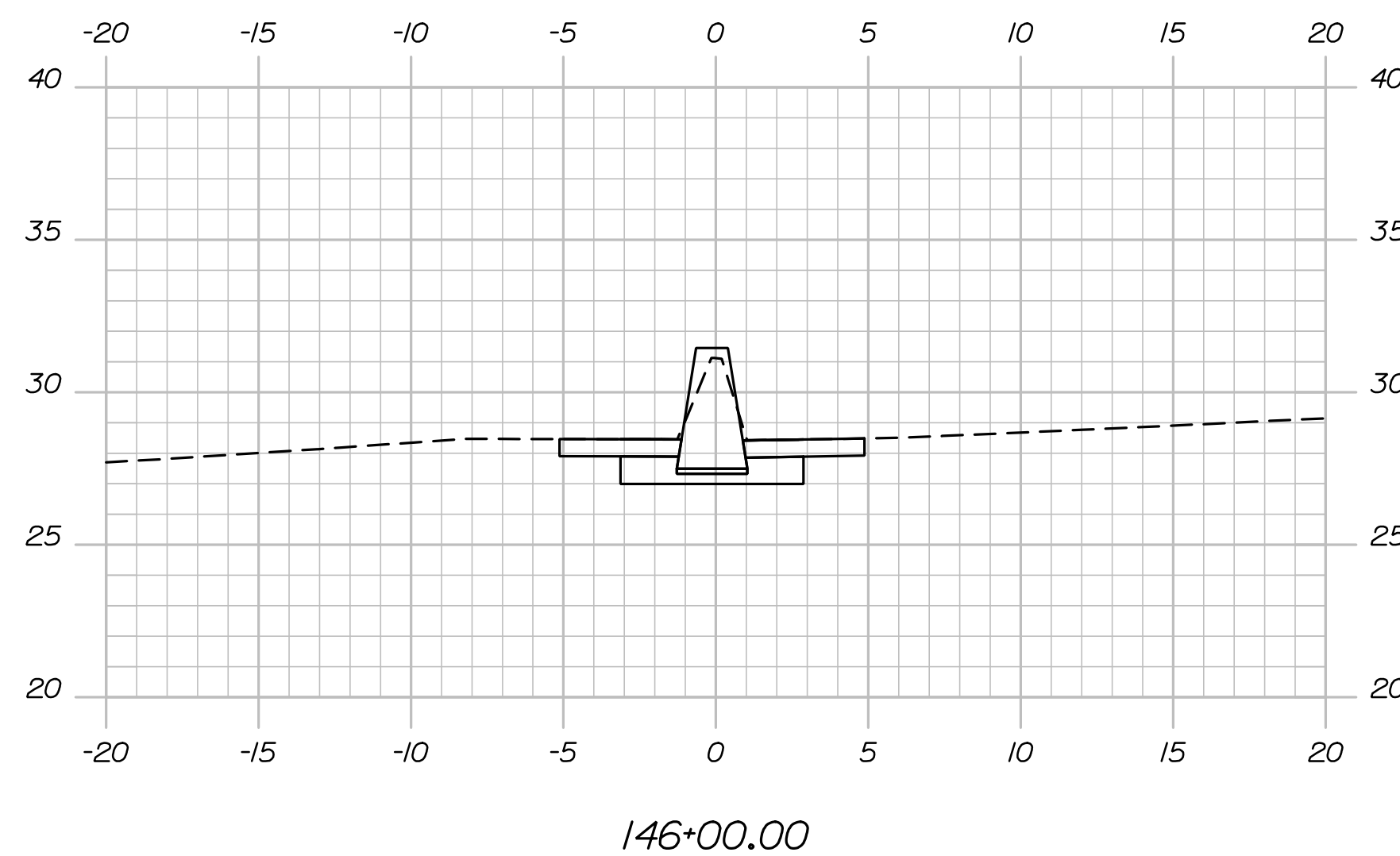
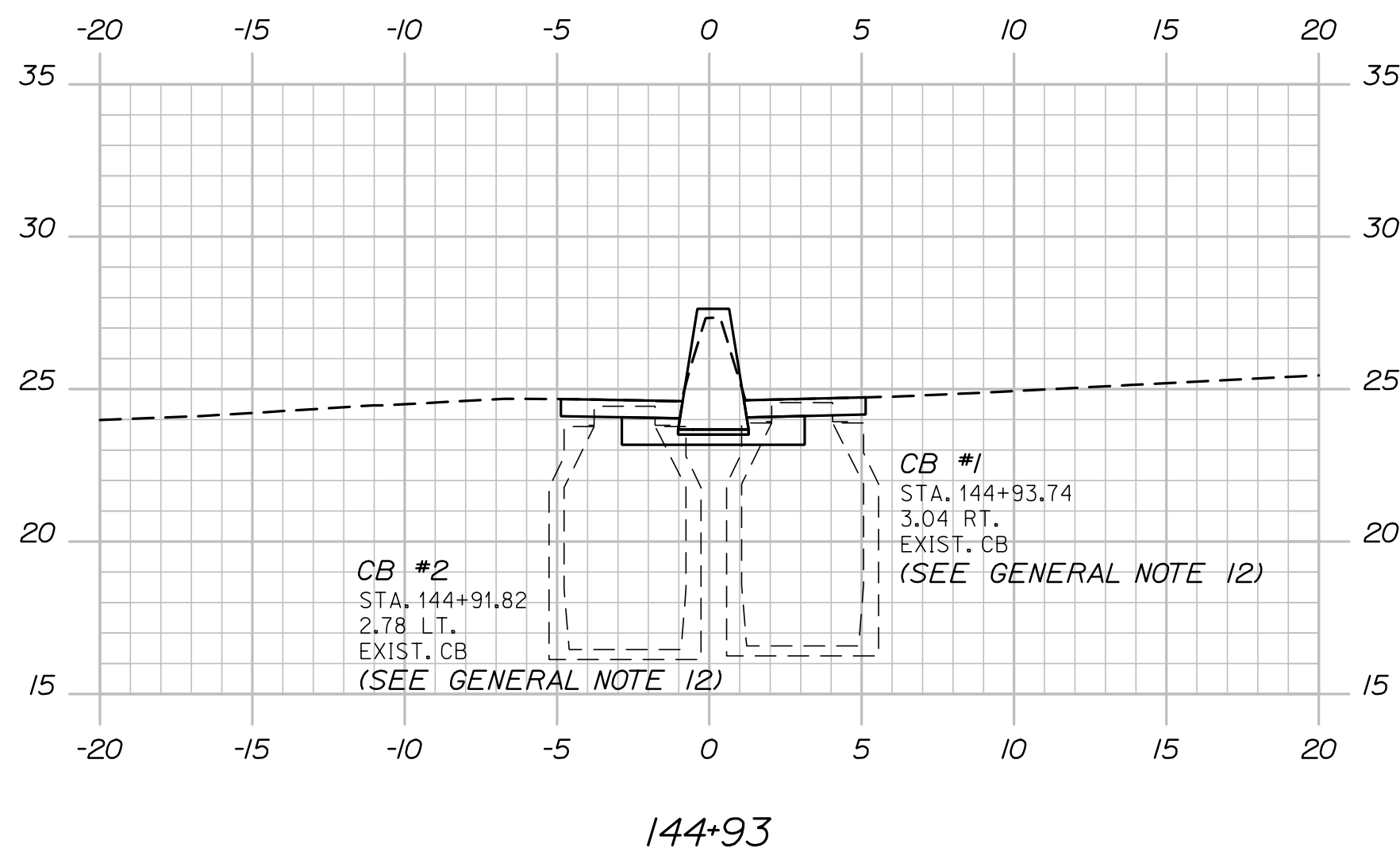
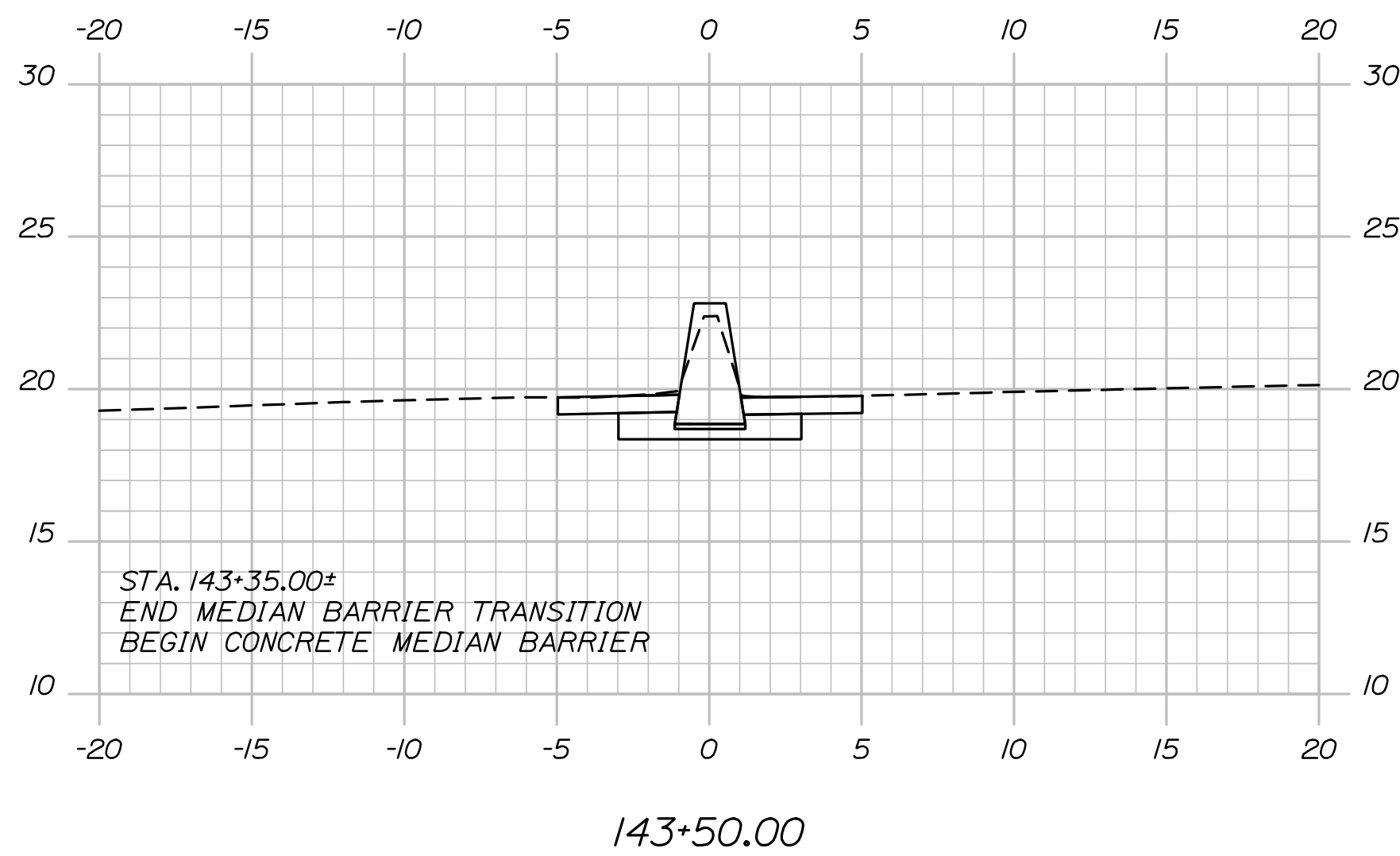
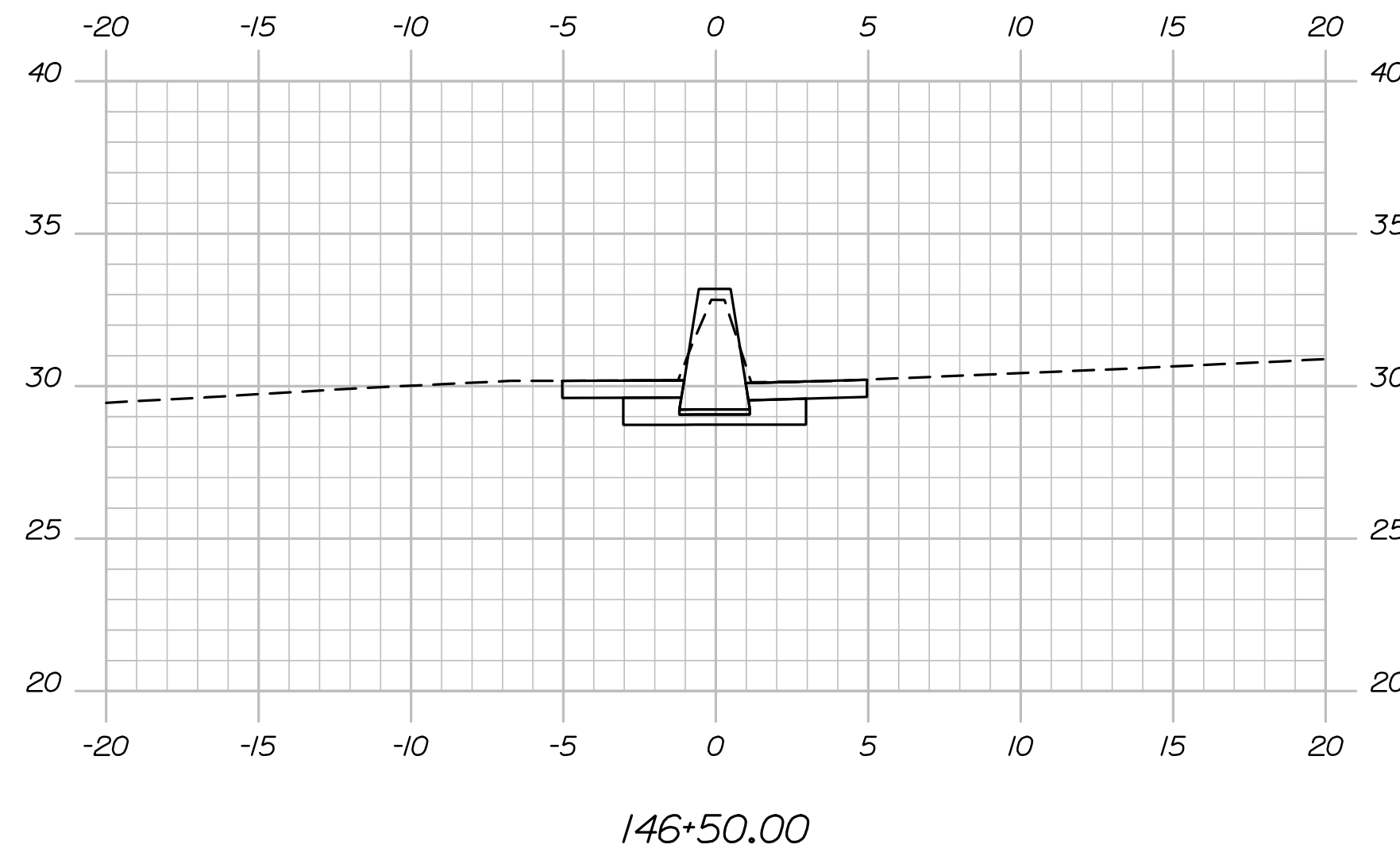
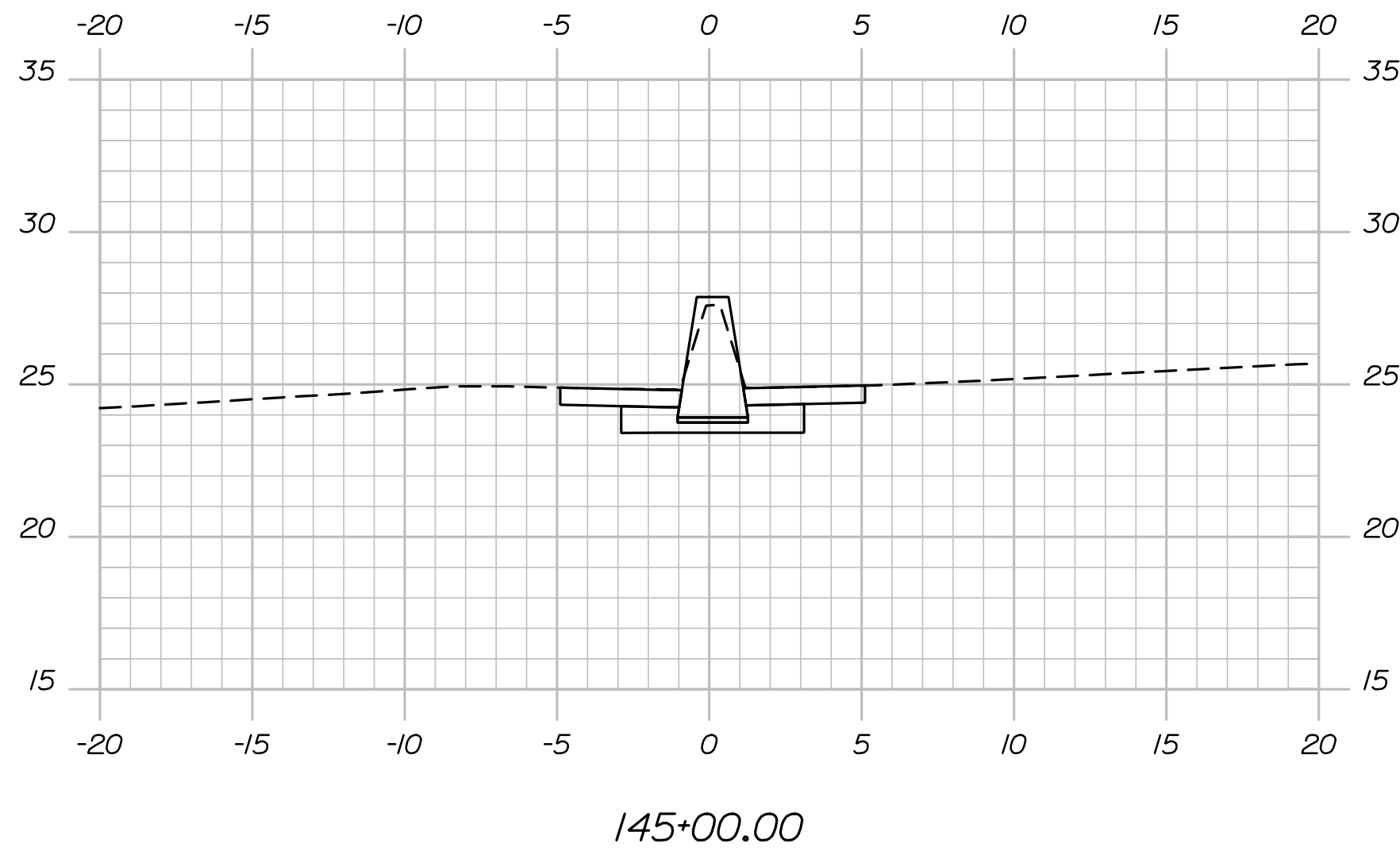
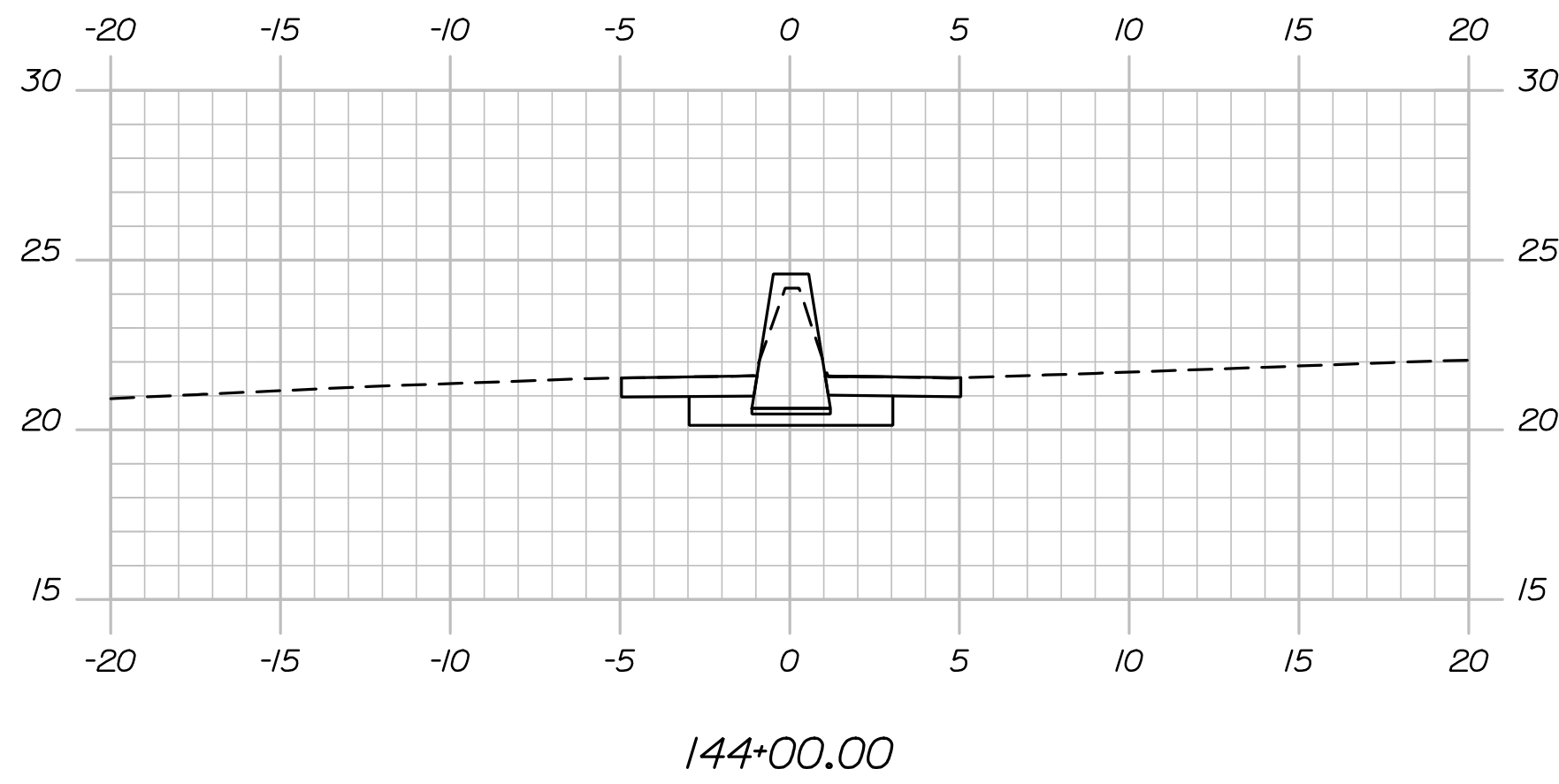


Date: 12/15/2021

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Division:

Filename: Xsect.dgn



PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE	P.E. NUMBER	DATE
-	-	-
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PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER

2

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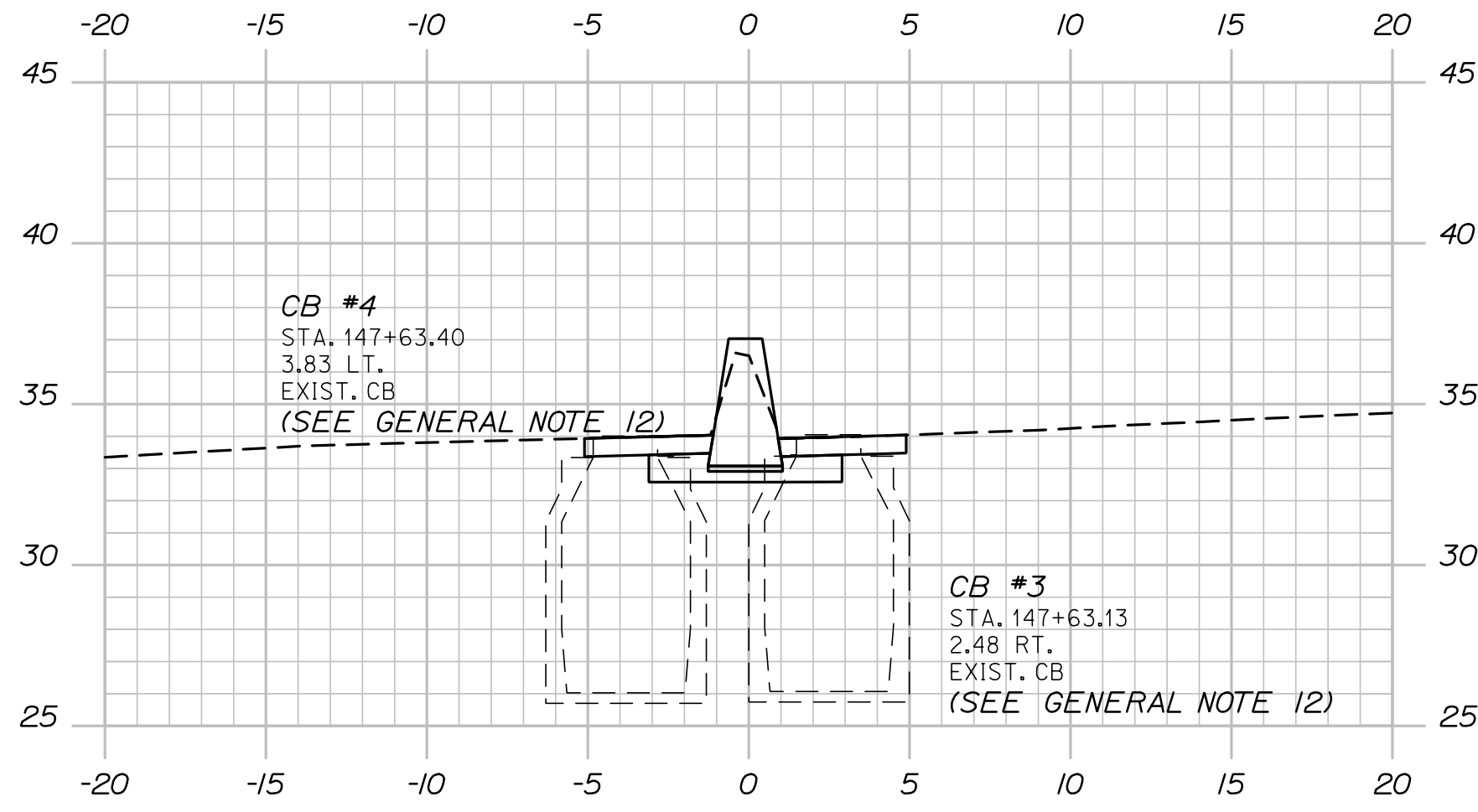


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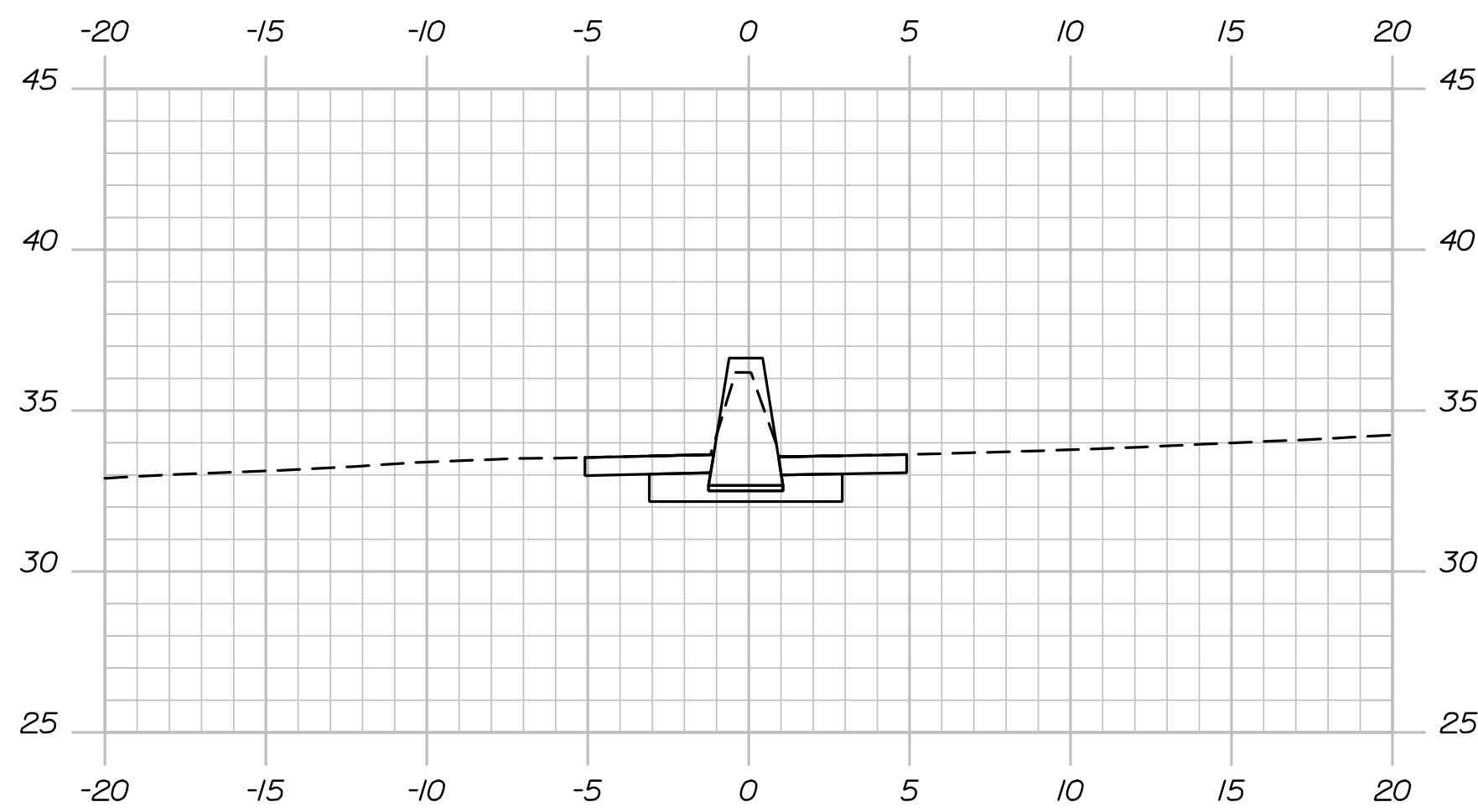
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Division:

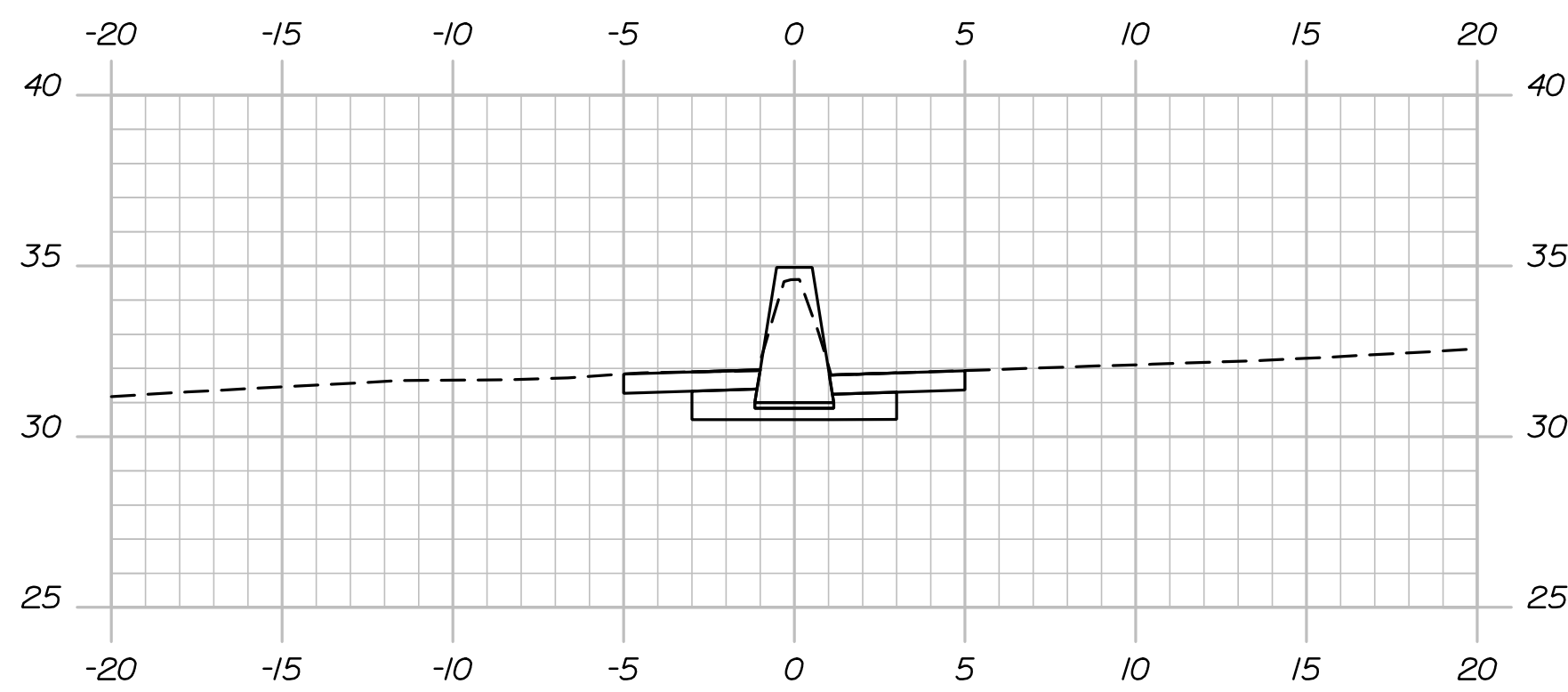
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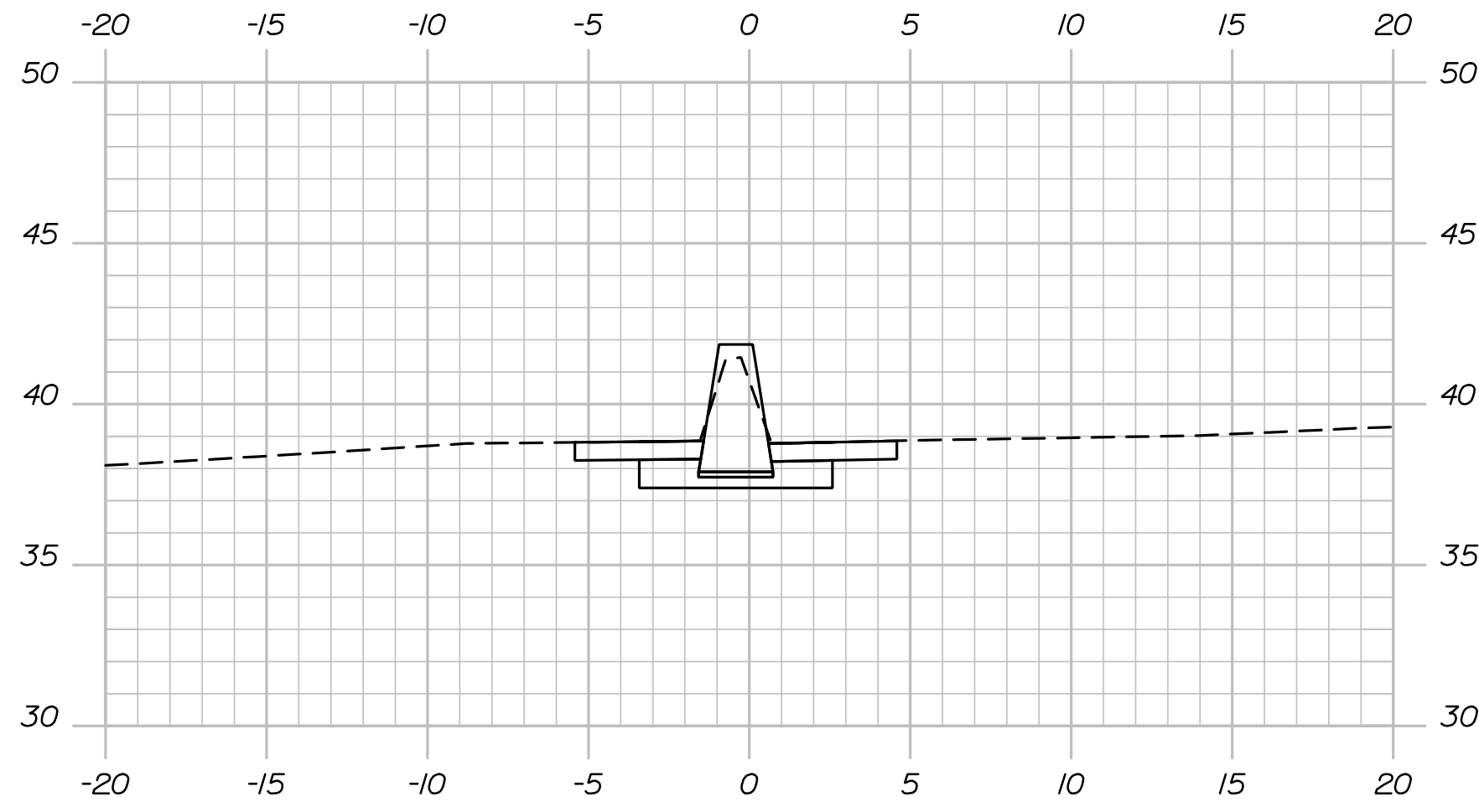
147+63



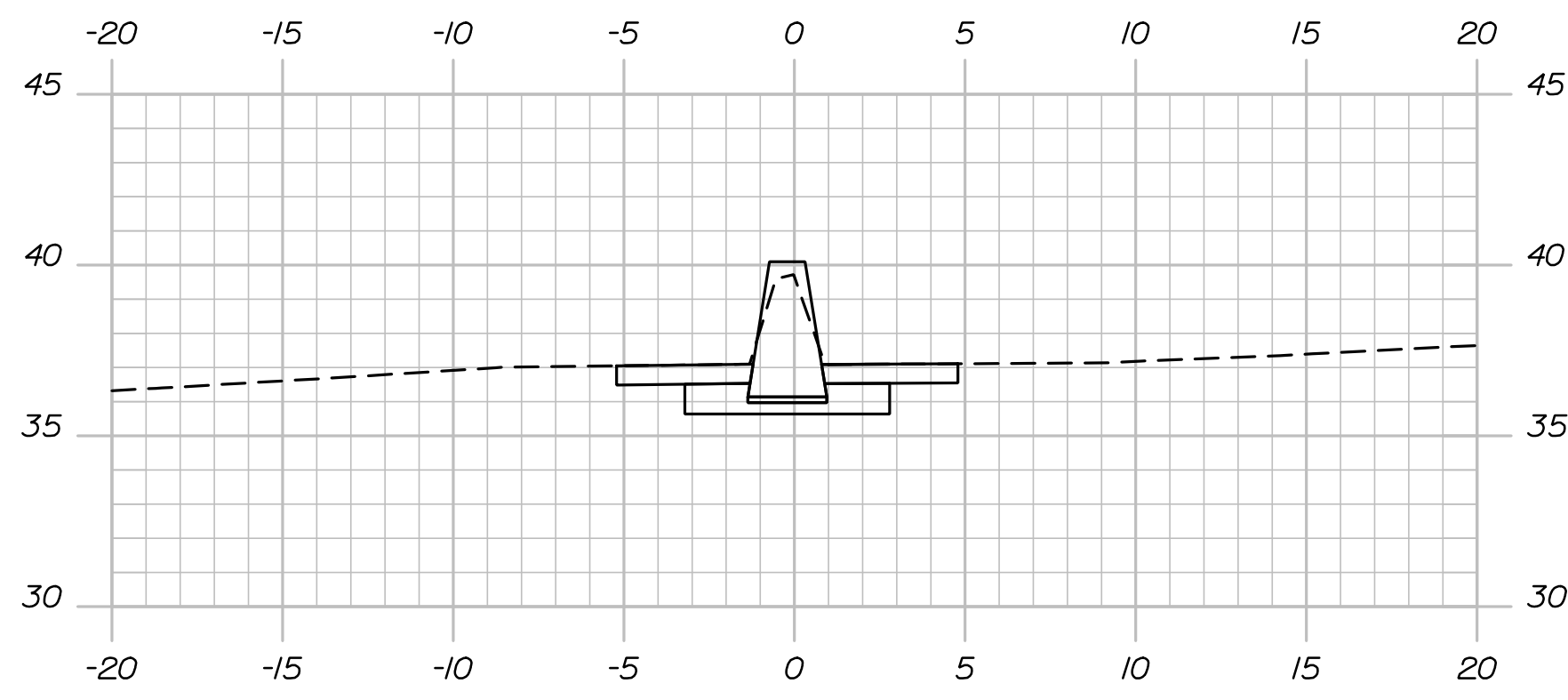
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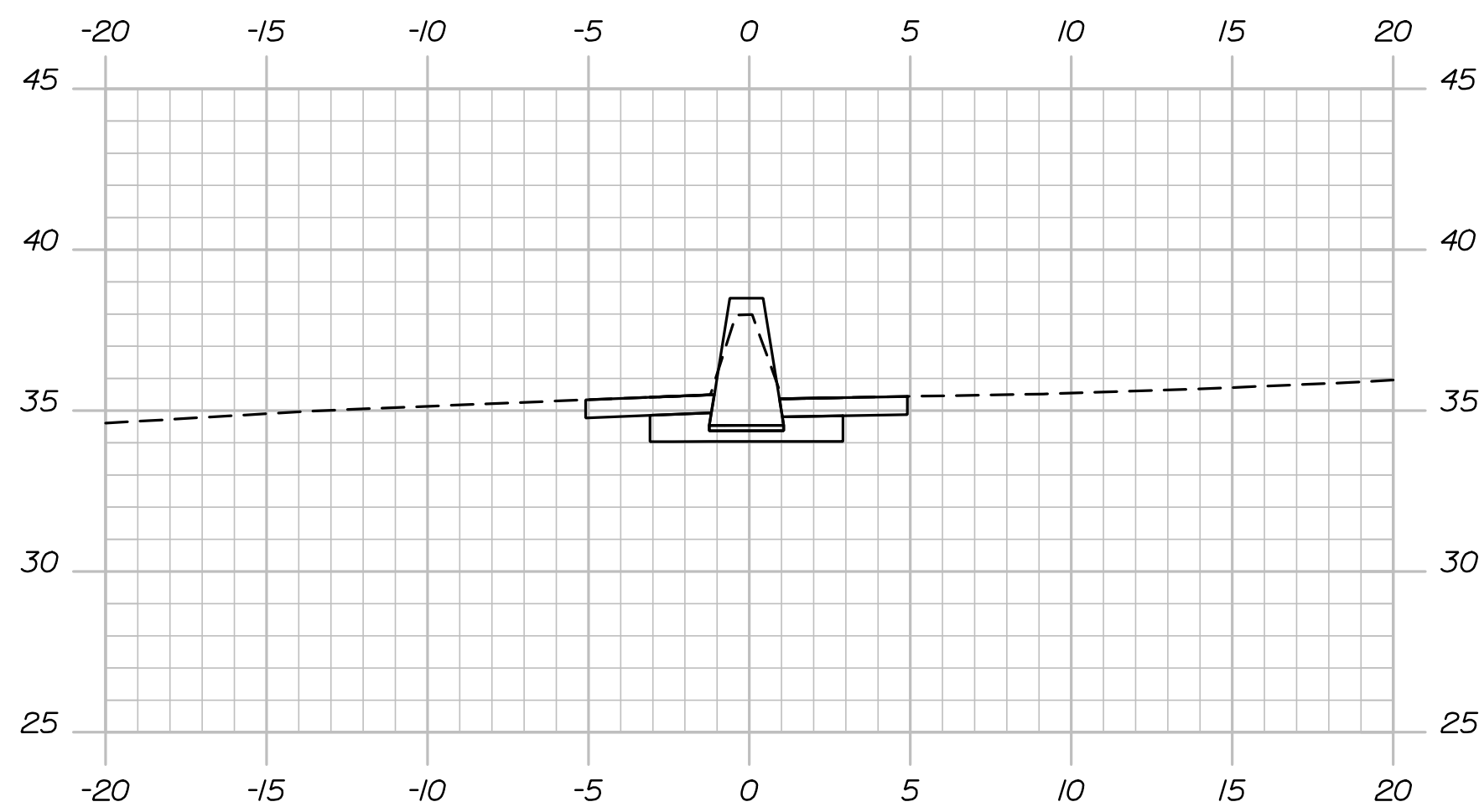
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149+00.00



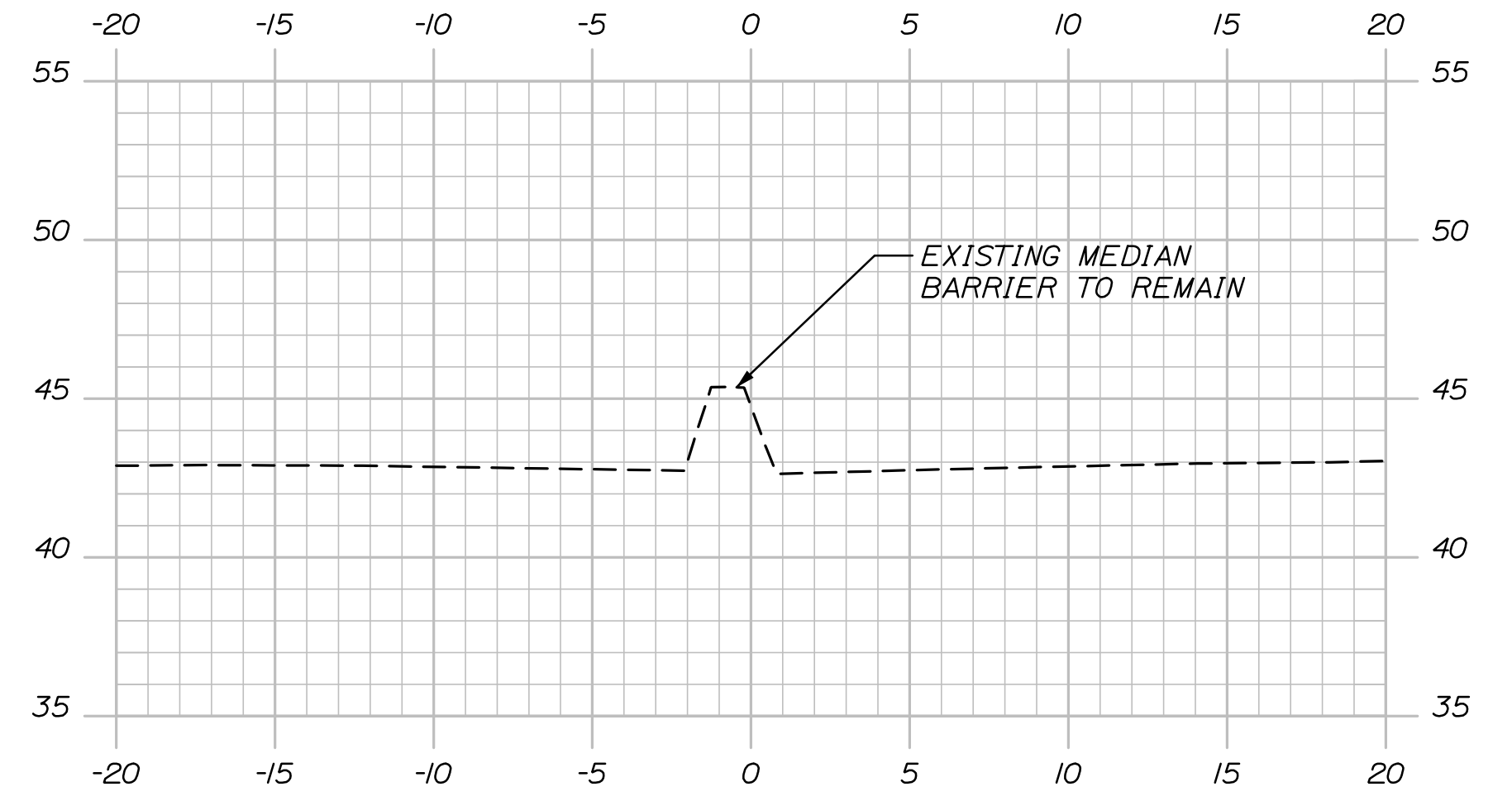
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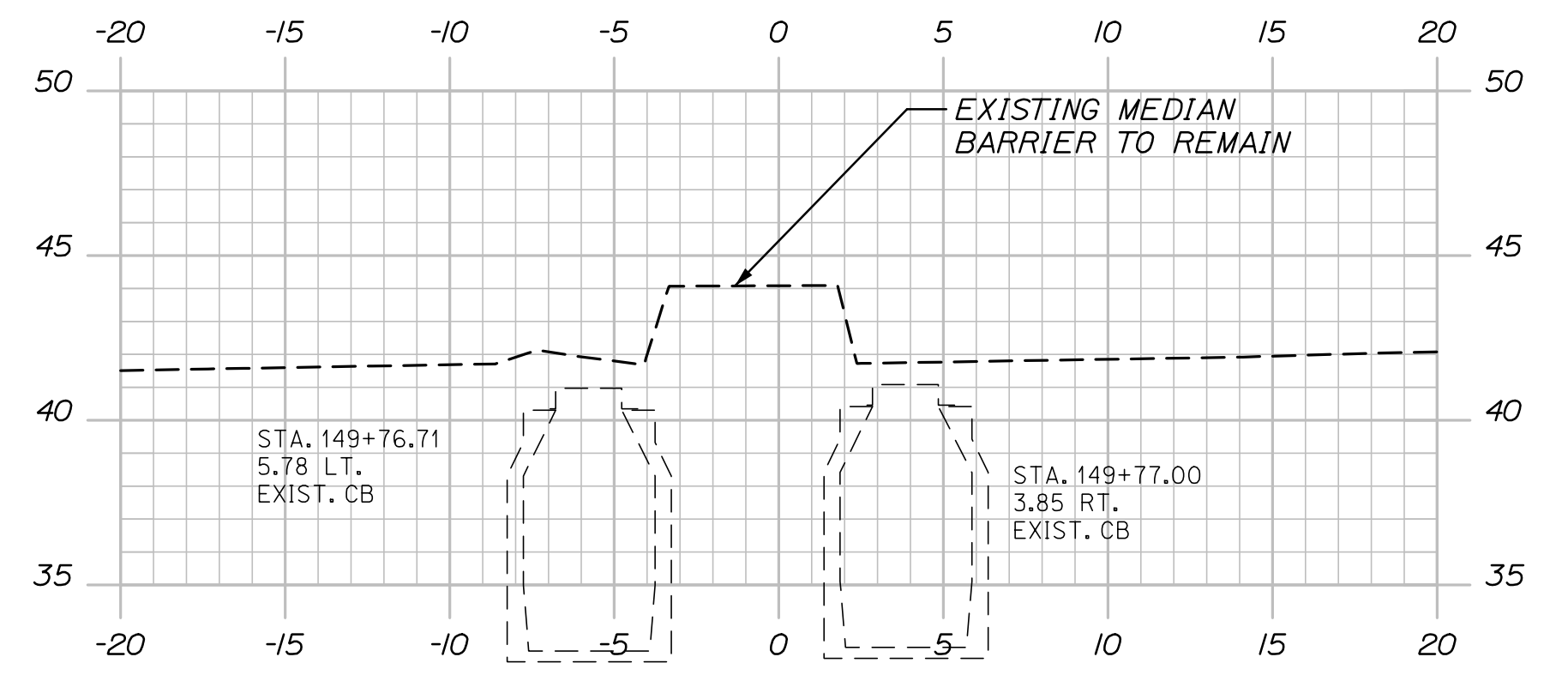
148+00.00

STA. 150+70.00±
 END MEDIAN BARRIER TRANSITION
 BEGIN CONCRETE MEDIAN BARRIER

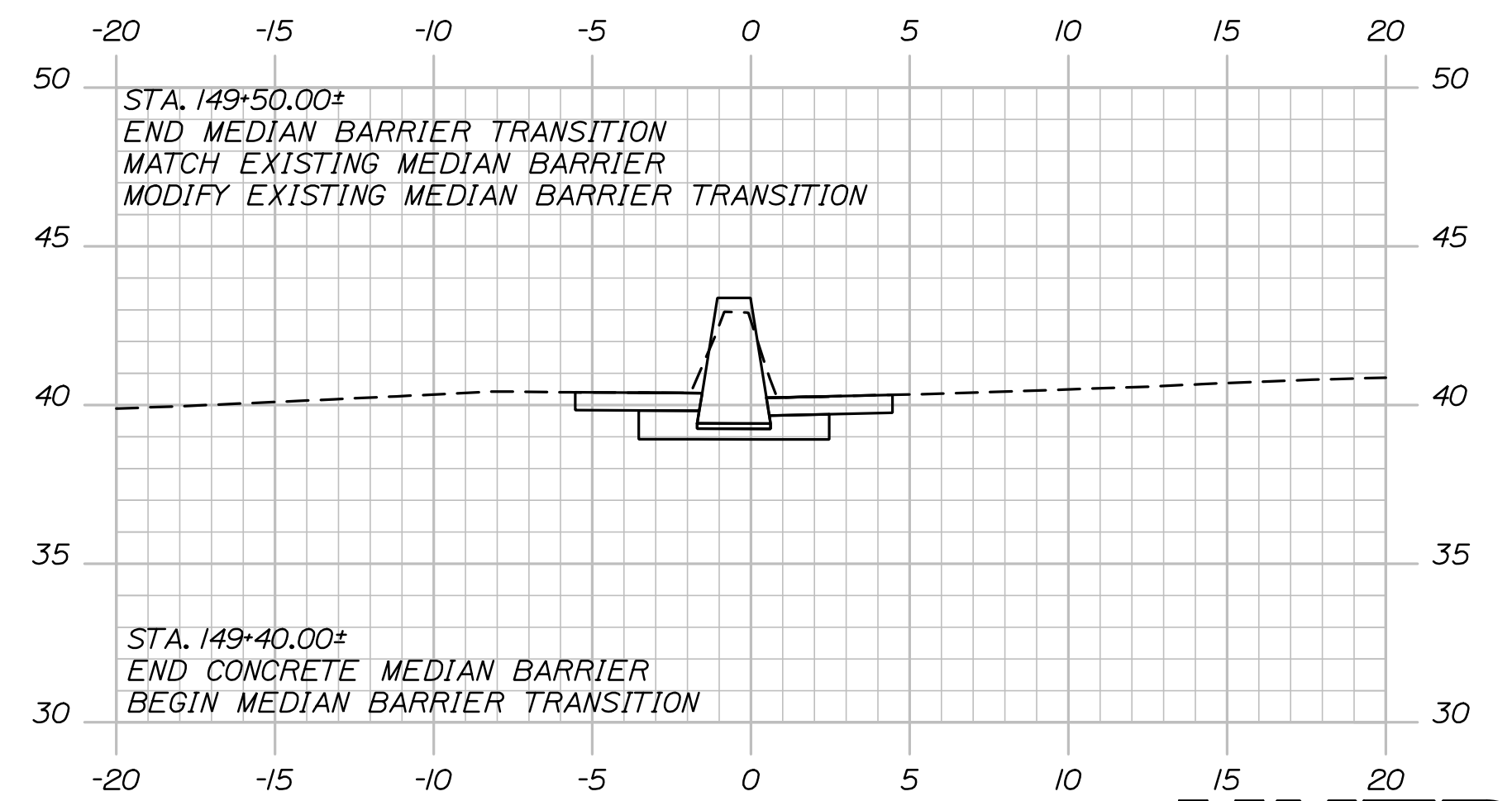
STA. 150+60.00±
 MODIFY EXISTING MEDIAN BARRIER TRANSITION
 MATCH EXISTING MEDIAN BARRIER
 BEGIN MEDIAN BARRIER TRANSITION



150+50.00



150+00.00



149+50.00



PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
 I-295 MEDIAN BARRIER
 CROSS SECTIONS

SHEET NUMBER

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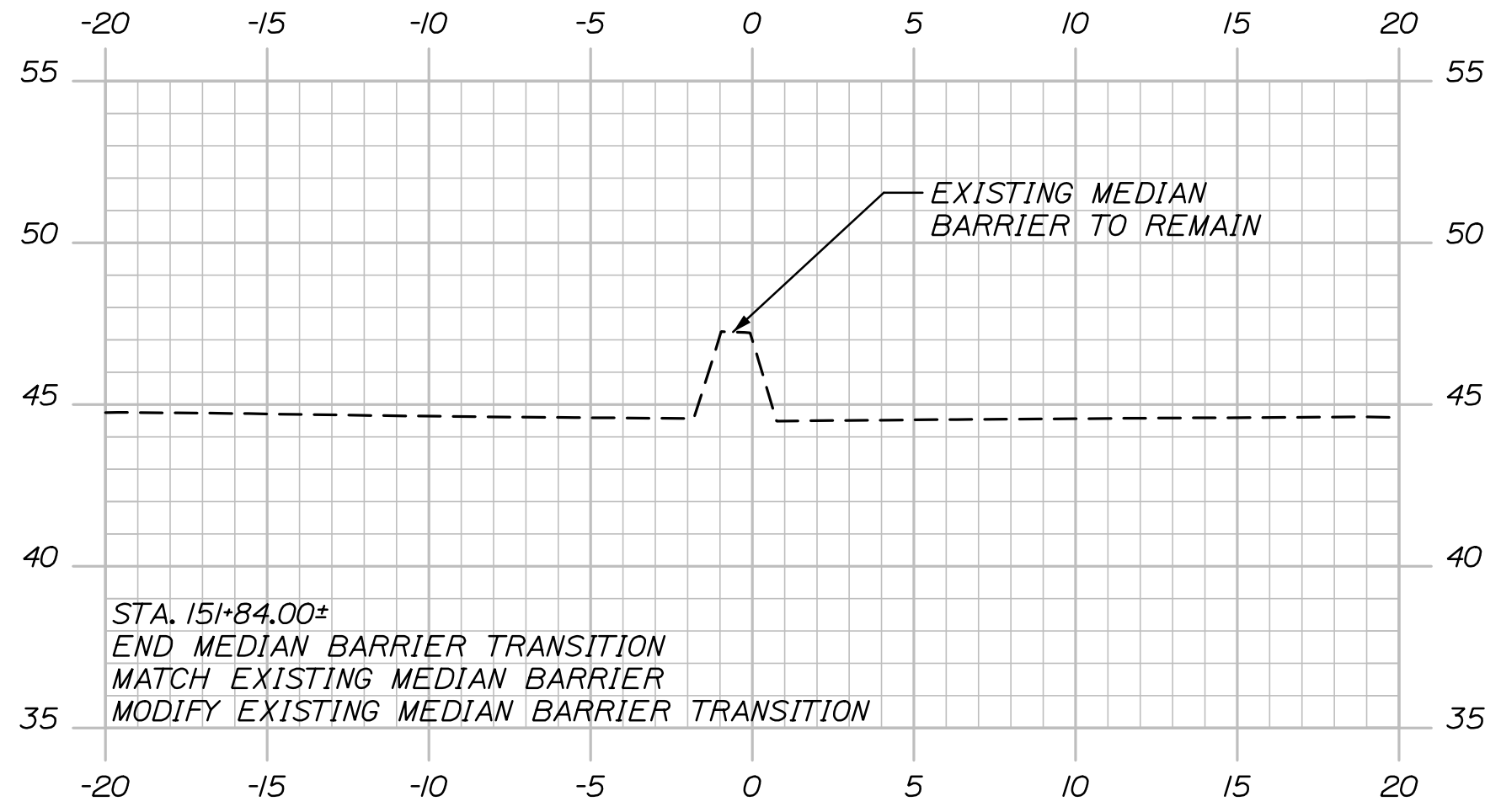
Date: 12/15/2021

Username:

Division:

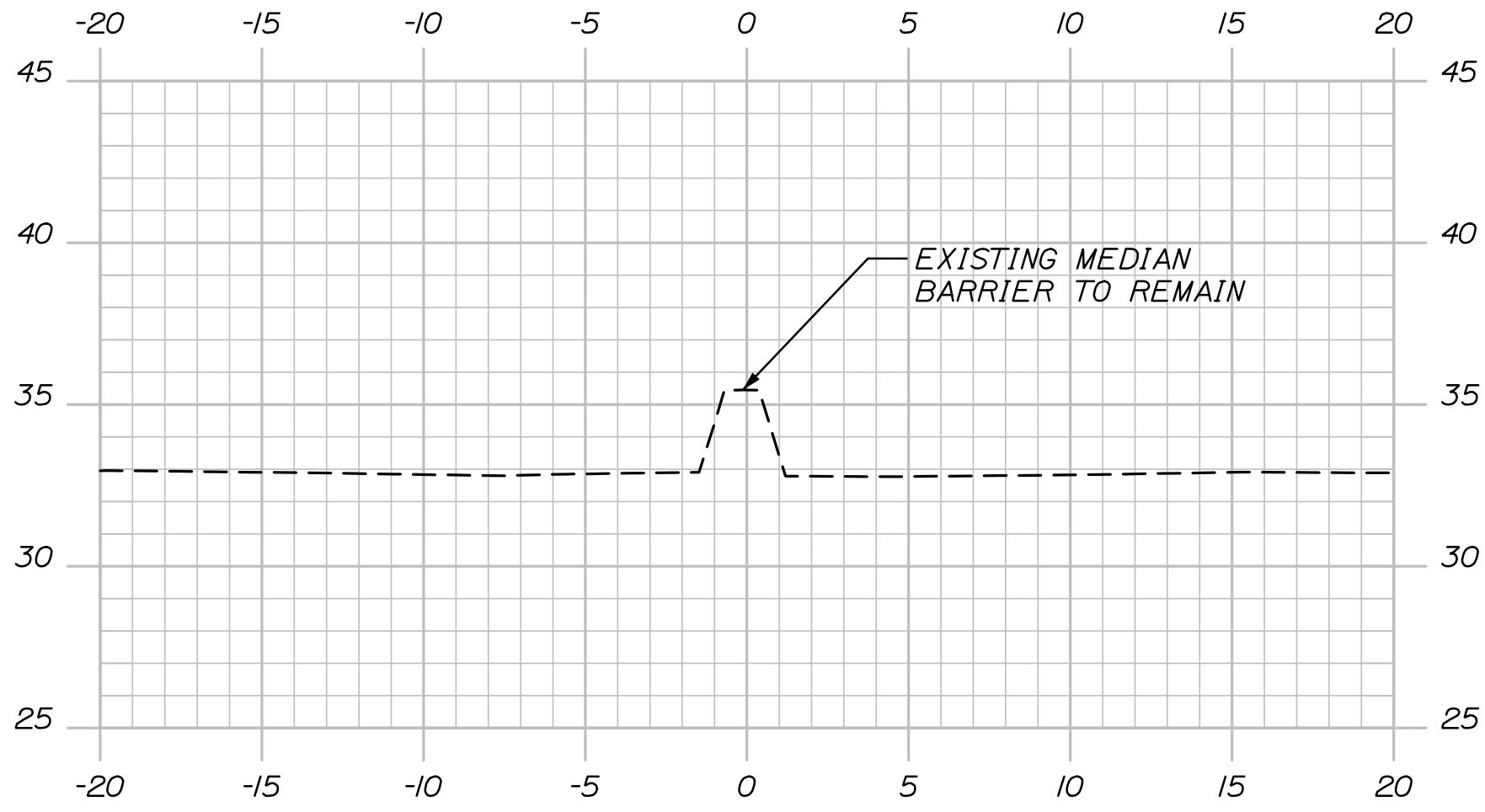
Filename: Xsect.dgn

STA. 151+84.00± TO STA. 157+28.00±
TUKEY'S BRIDGE

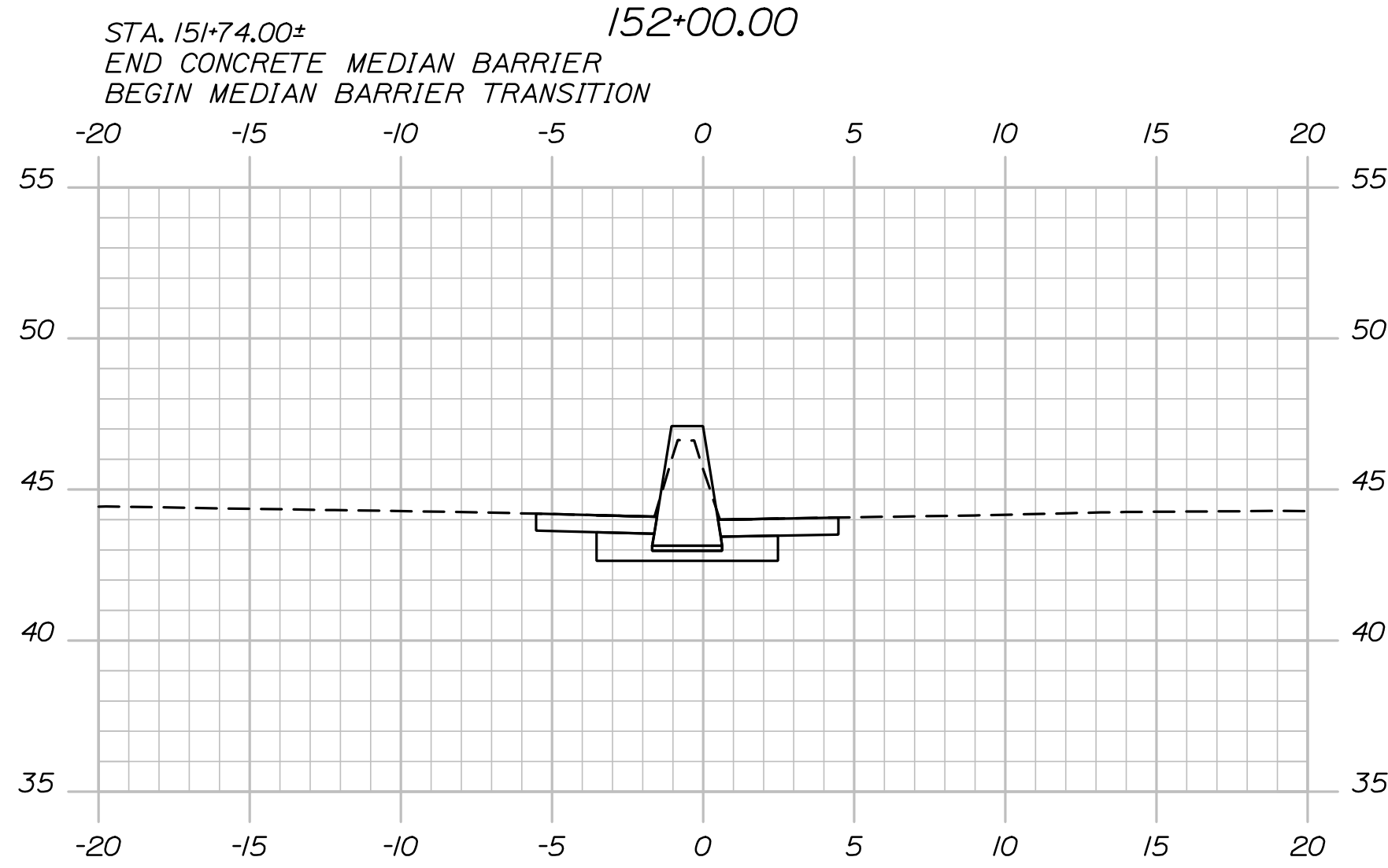


STA. 157+38.00±
END MEDIAN BARRIER TRANSITION
BEGIN CONCRETE MEDIAN BARRIER

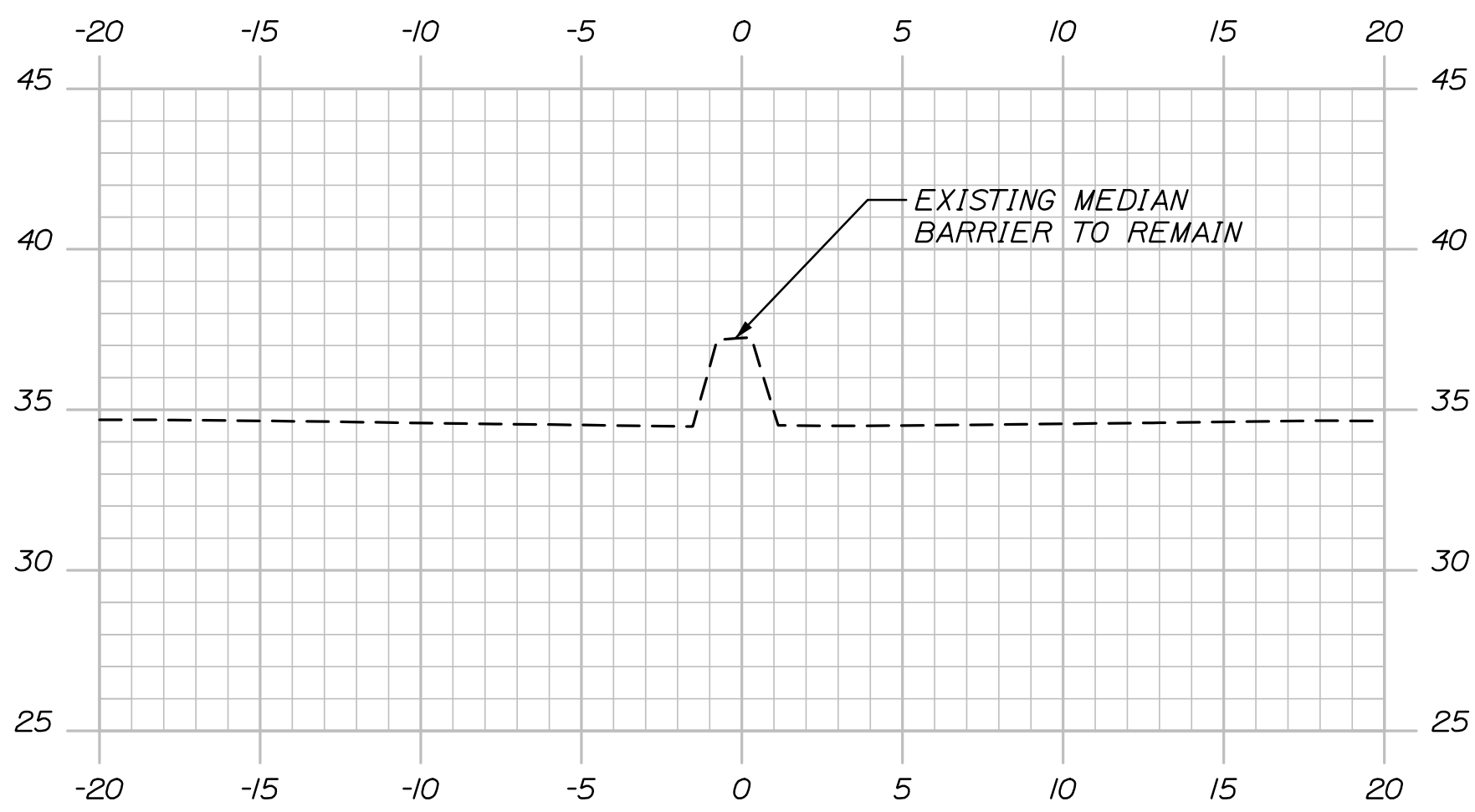
STA. 157+28.00±
MATCH EXISTING MEDIAN BARRIER
BEGIN MEDIAN BARRIER TRANSITION
MODIFY EXISTING MEDIAN BARRIER



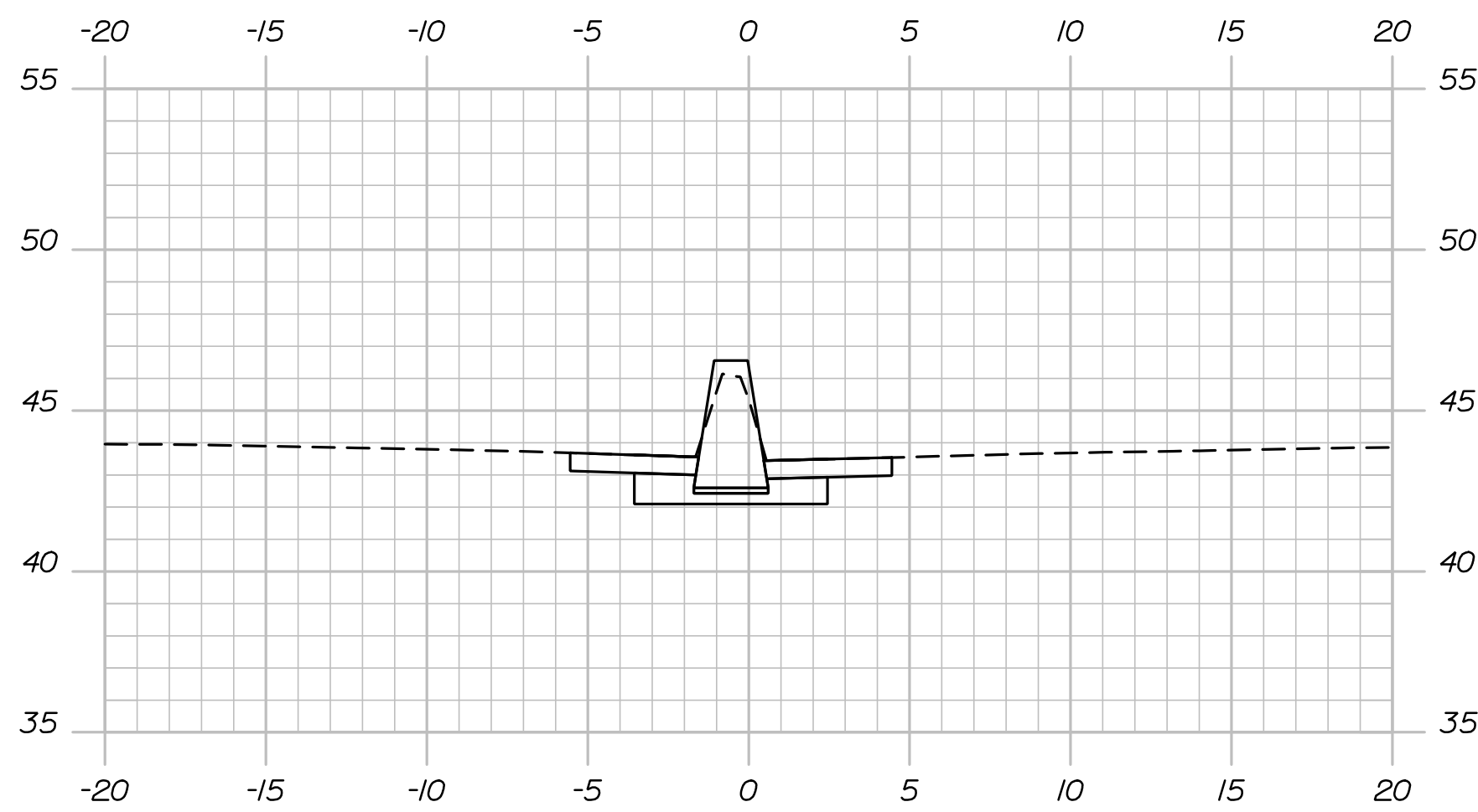
STA. 151+74.00±
END CONCRETE MEDIAN BARRIER
BEGIN MEDIAN BARRIER TRANSITION



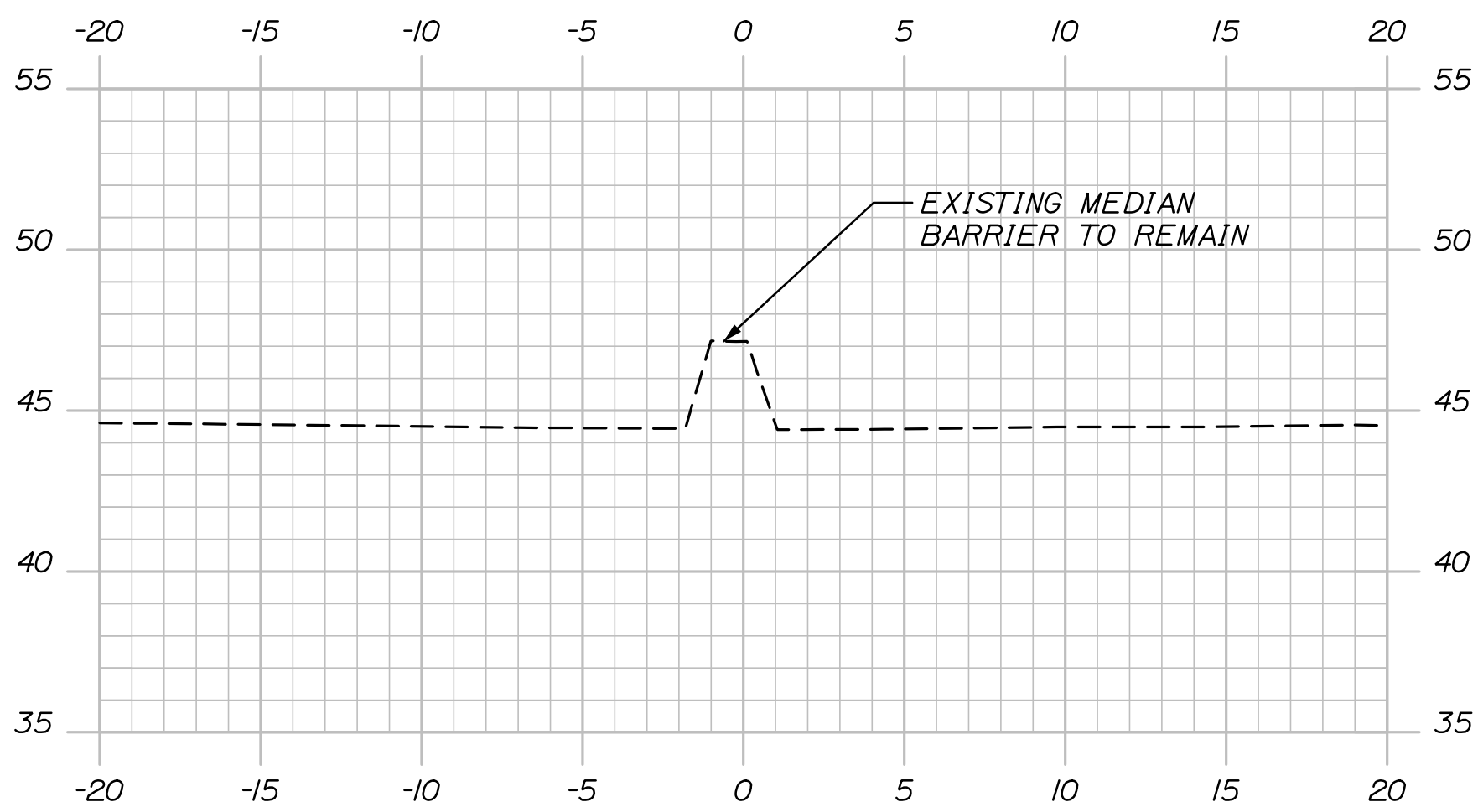
STA. 157+00.00



STA. 151+50.00

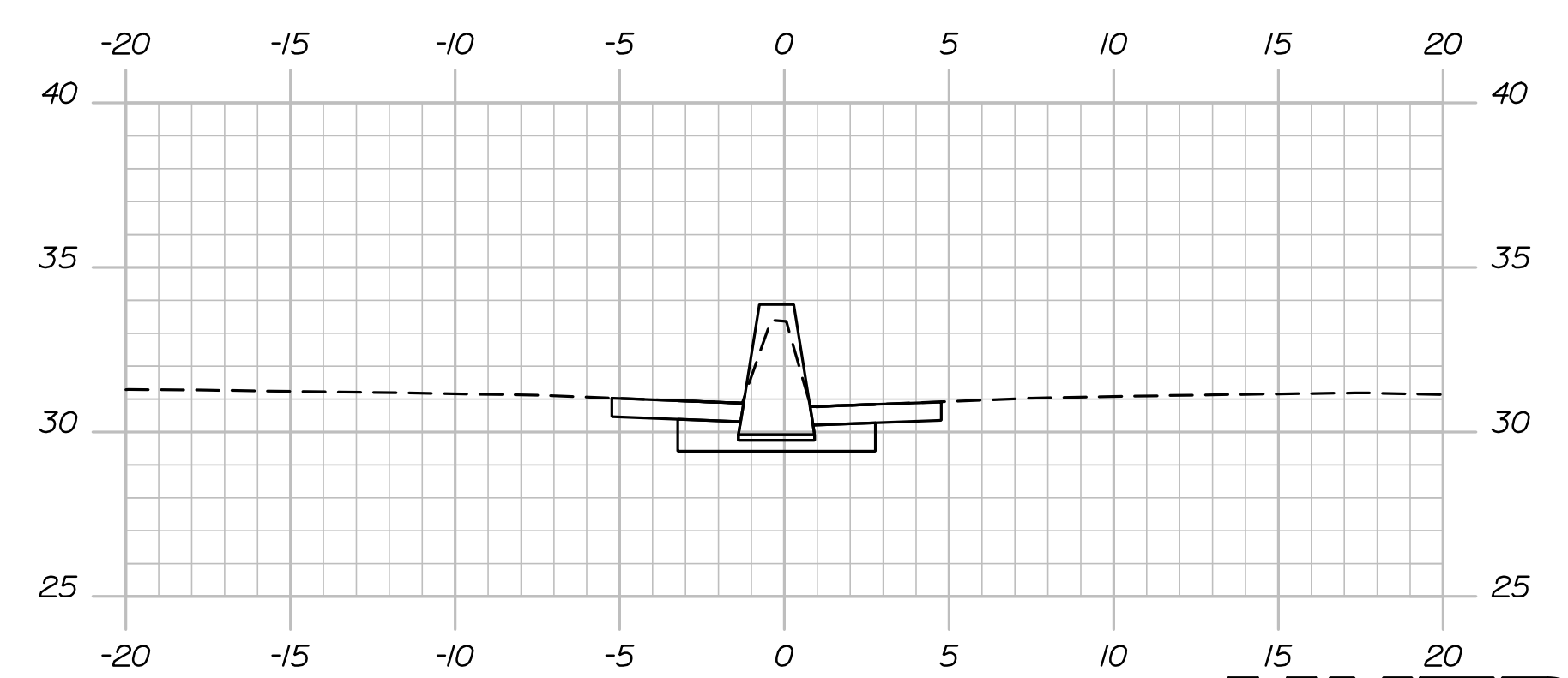
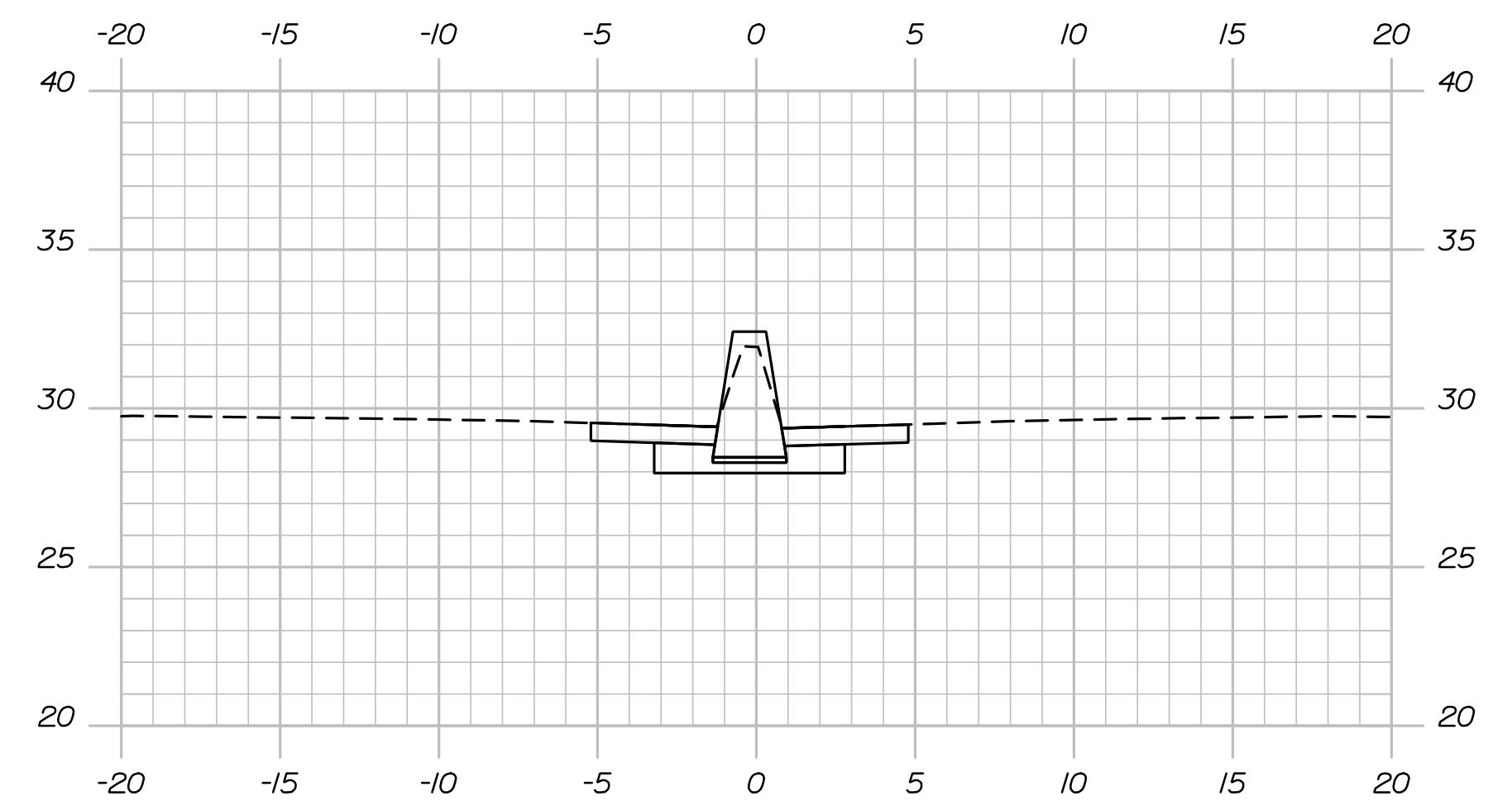
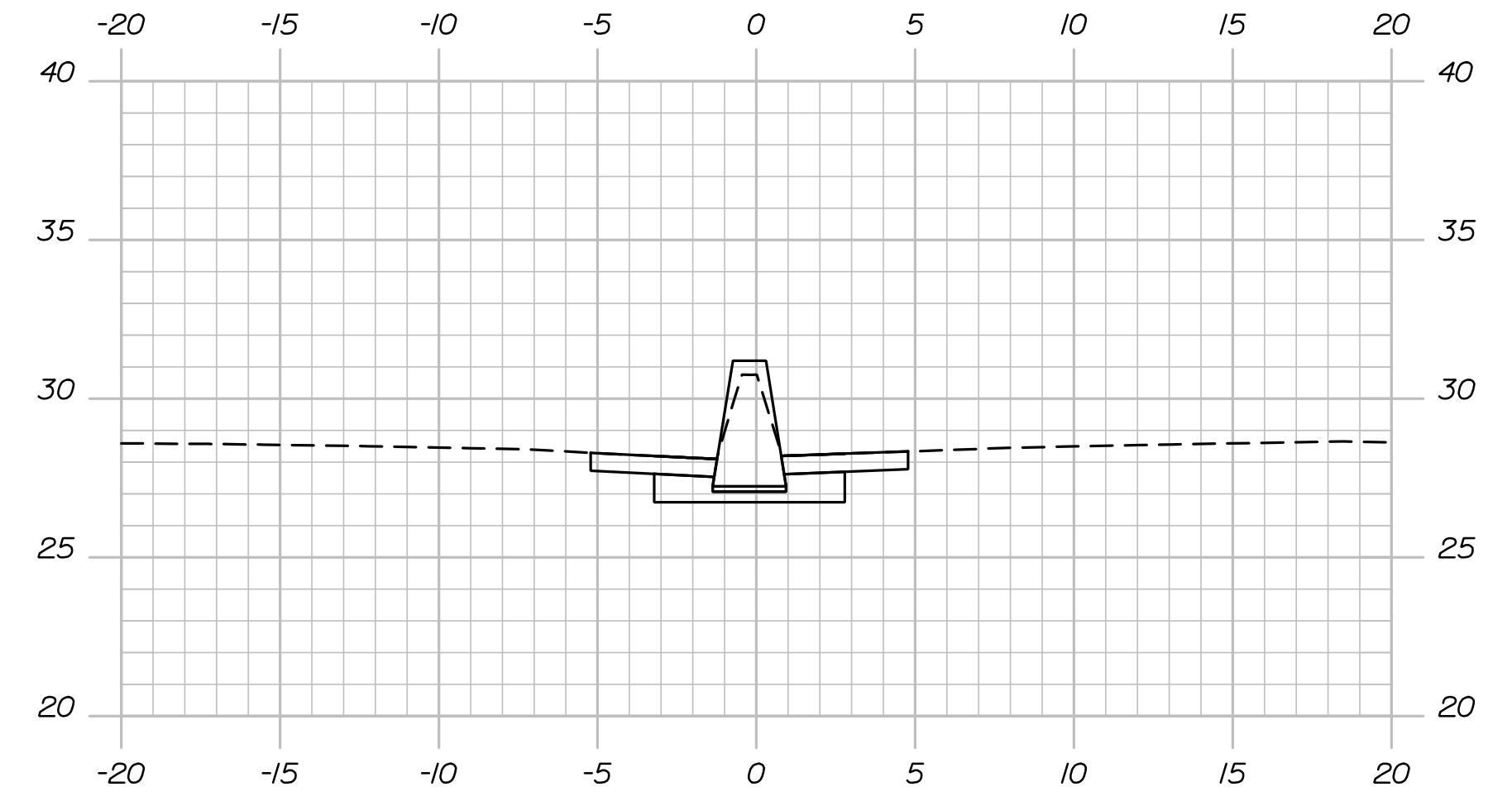


STA. 156+50.00



STA. 151+00.00

STA. 152+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FEDERAL PROJECT 2239400

WIN
22394.00
HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER

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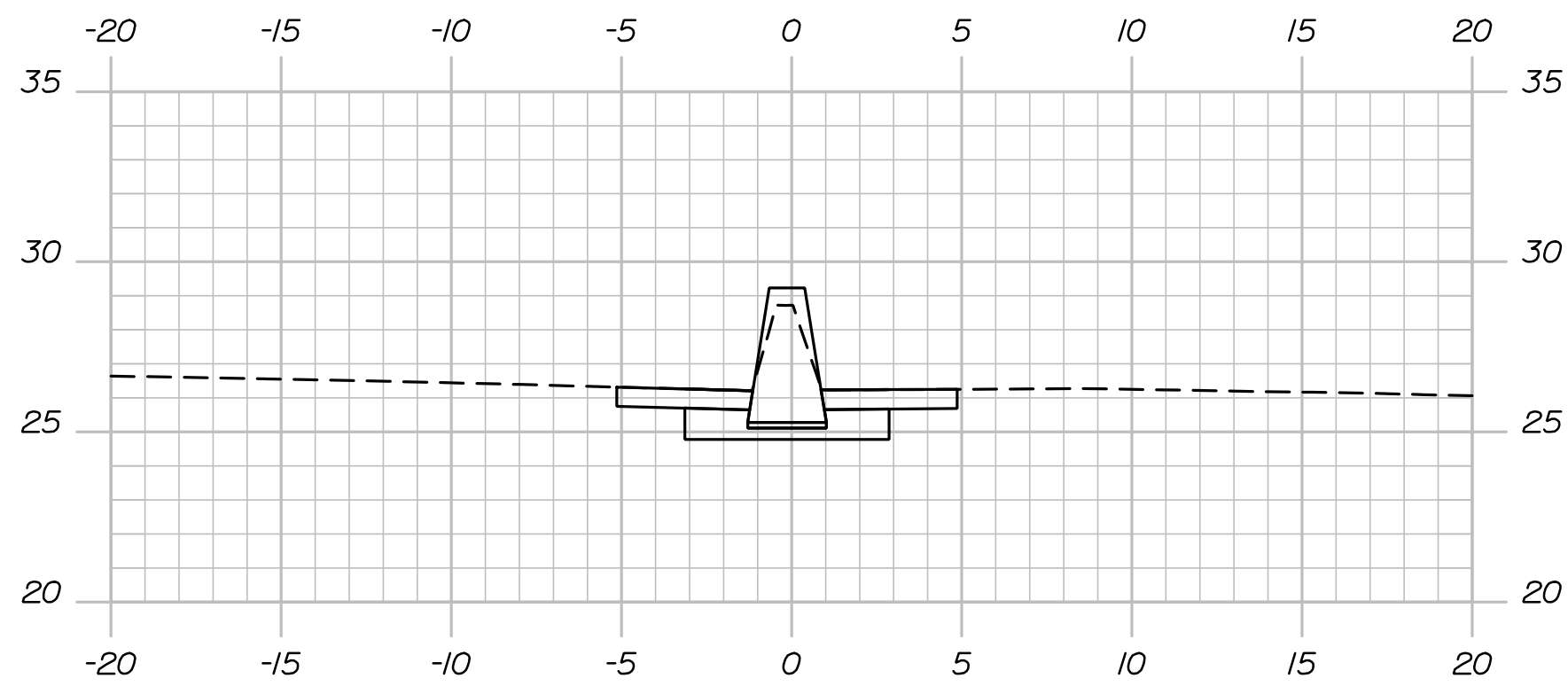
Sta. 151+00.00 to Sta. 158+50.00

Date: 12/15/2021

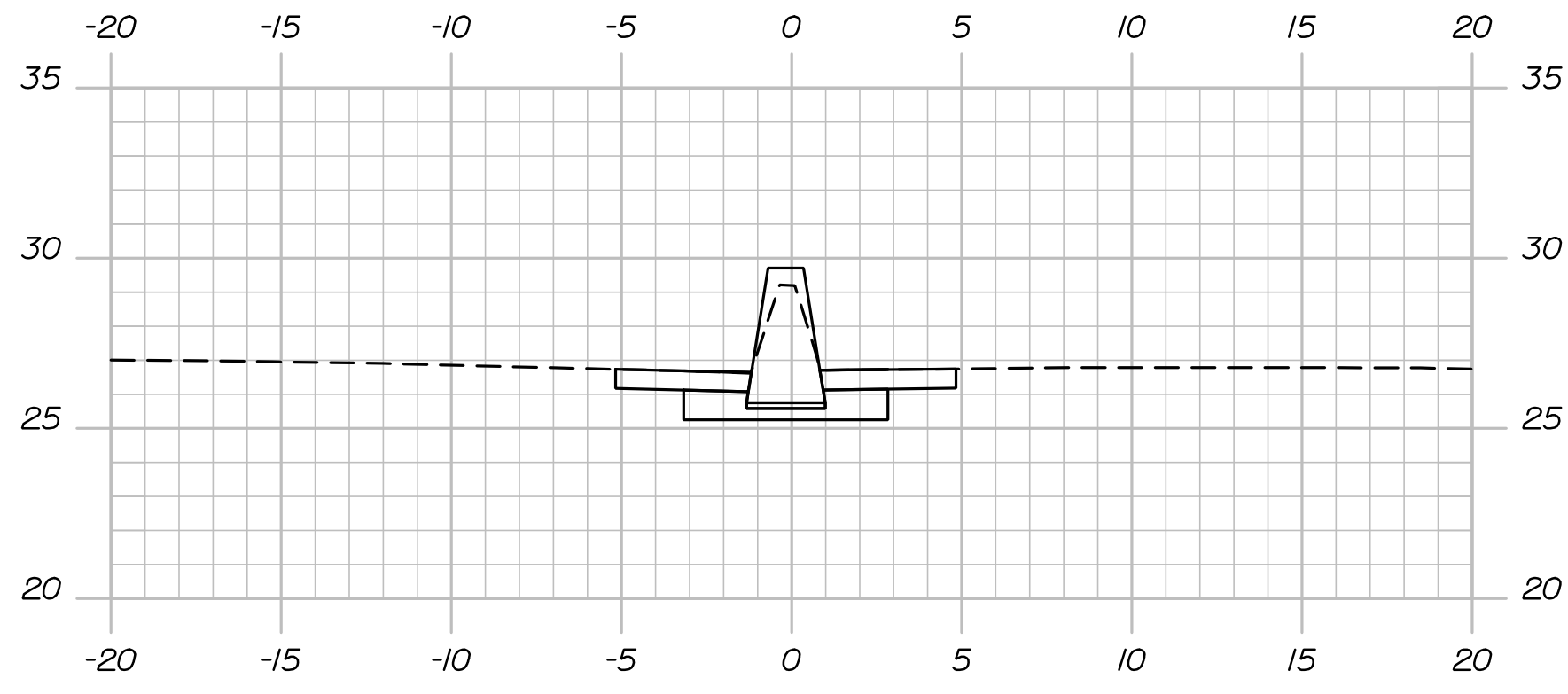
Username:

Division:

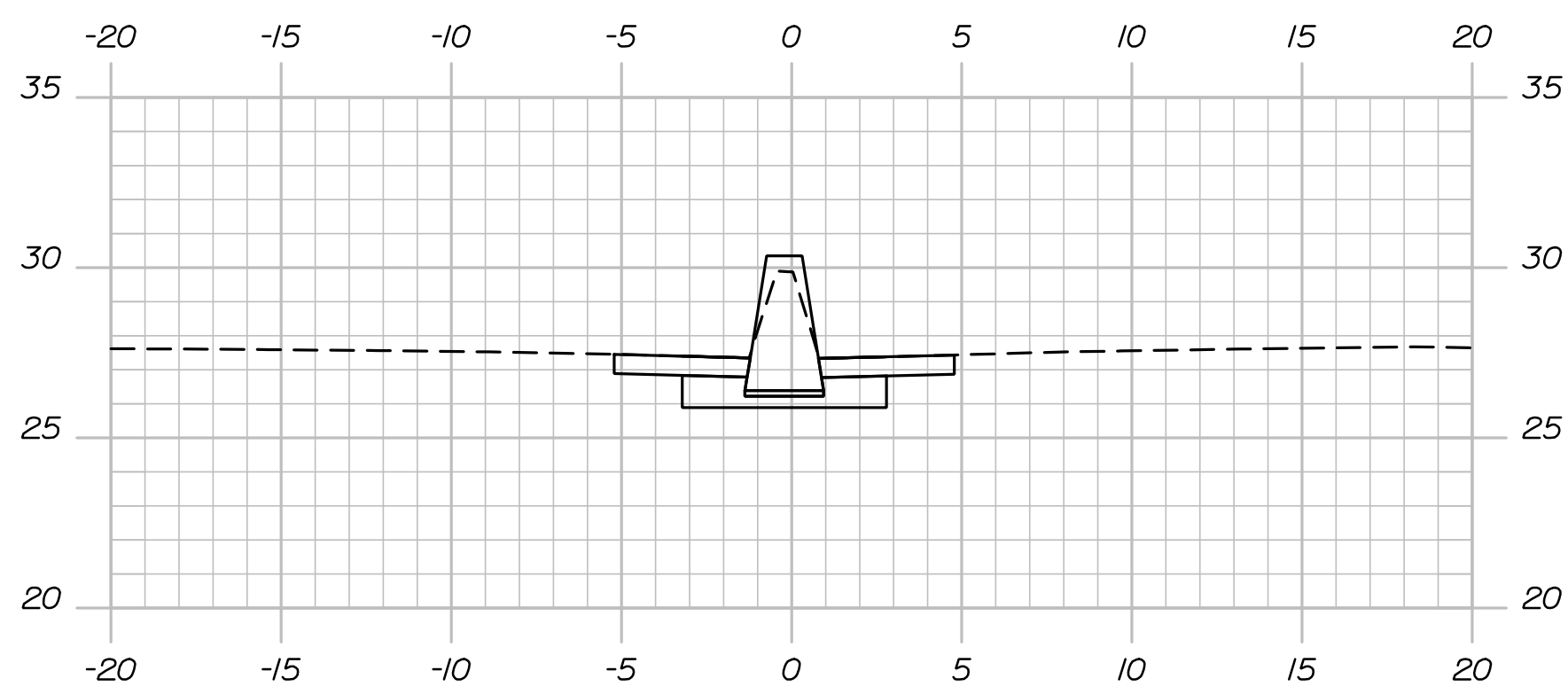
Filename: Xsect.dgn



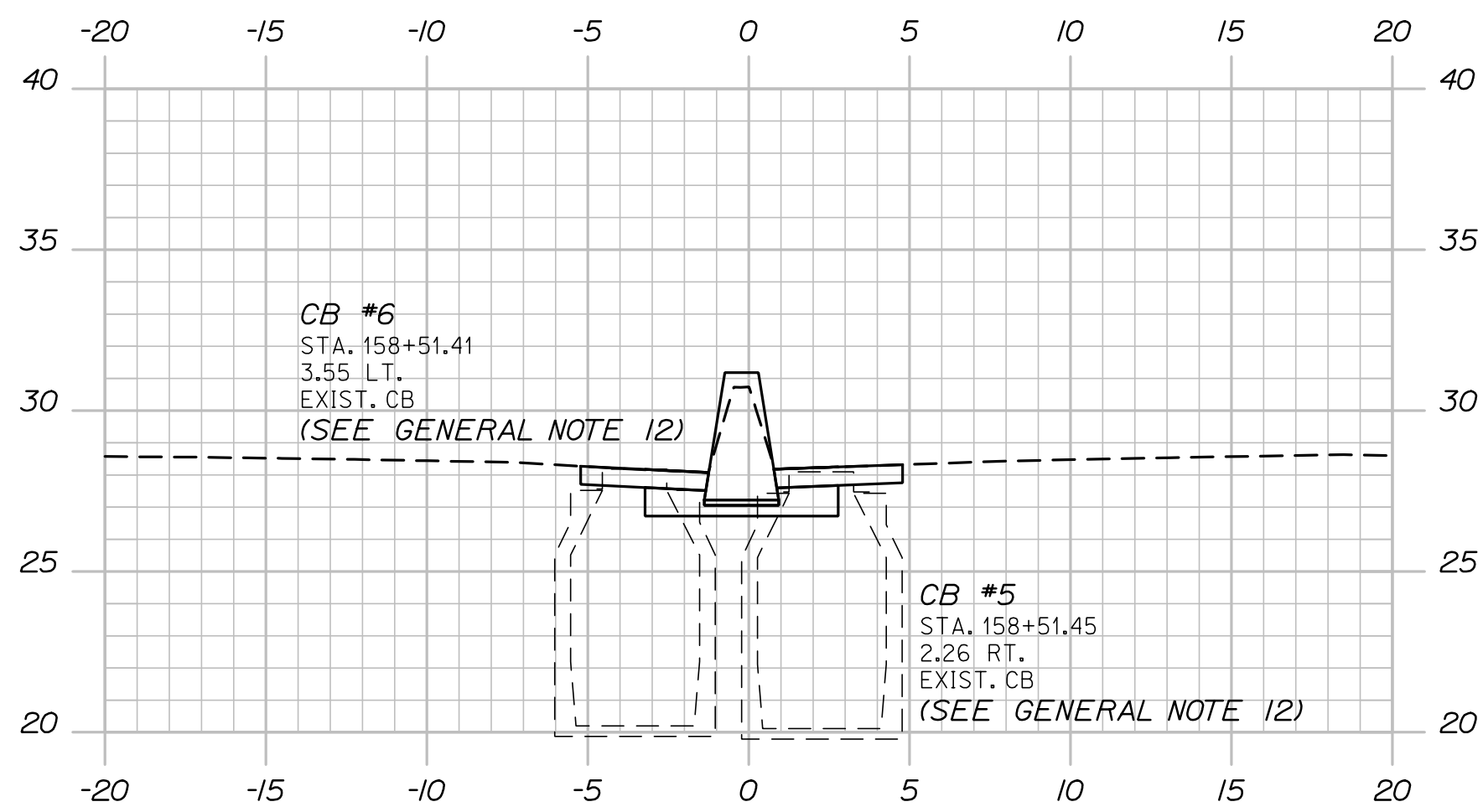
160+00.00



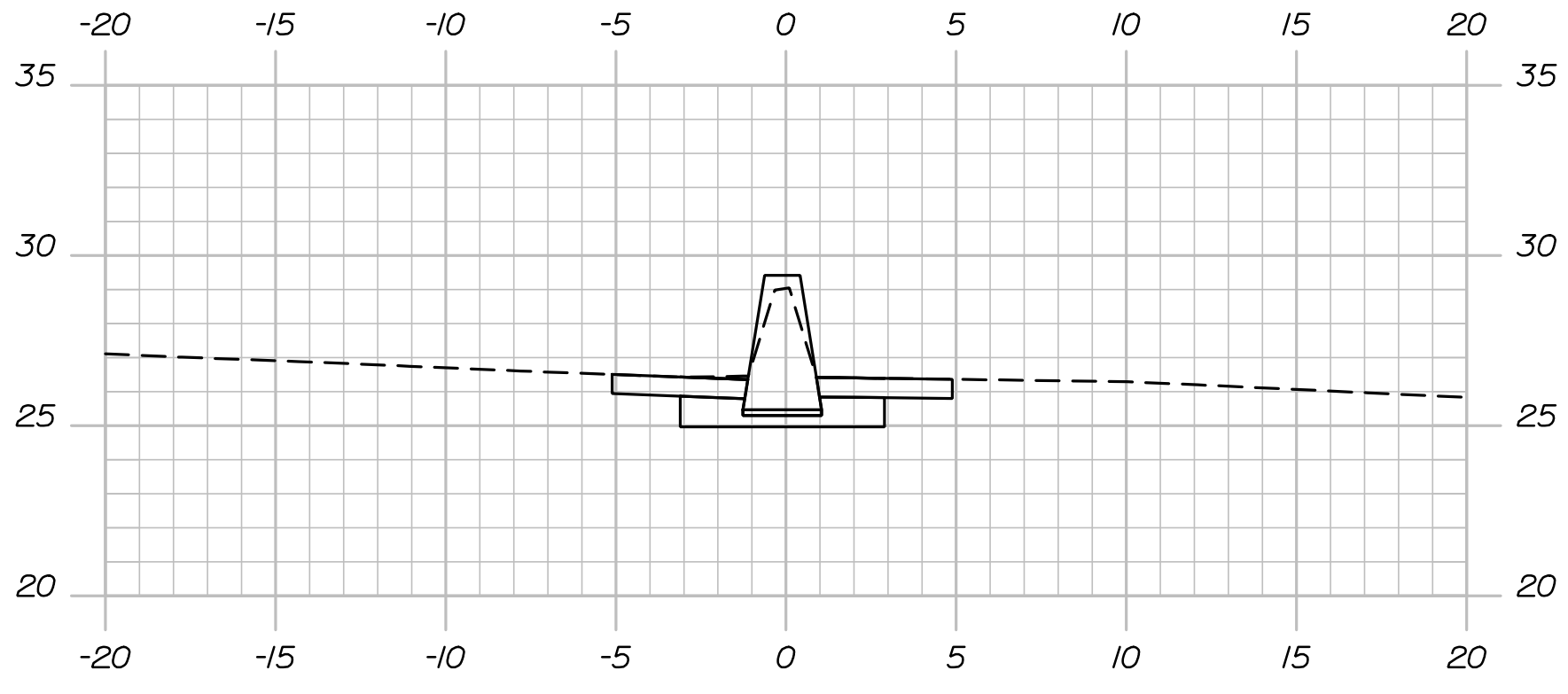
159+50.00



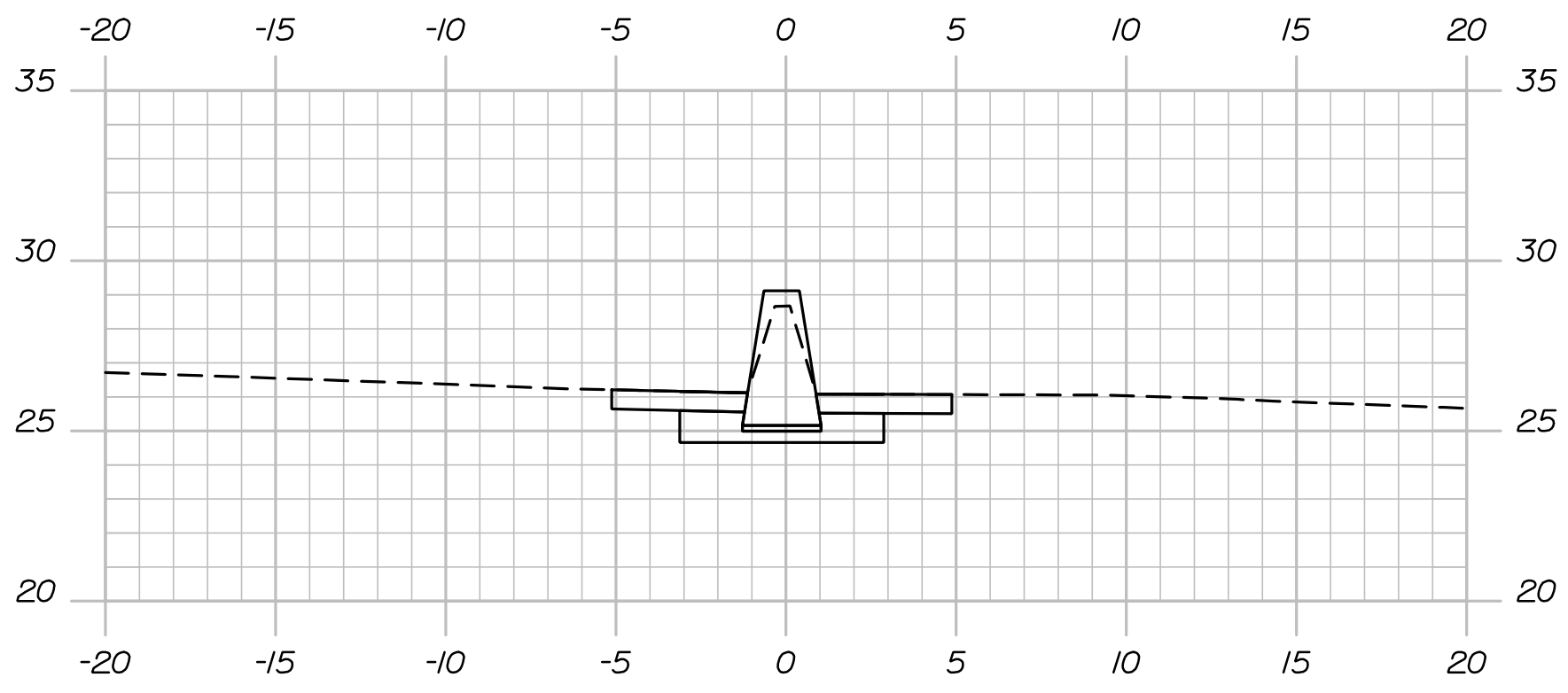
159+00.00



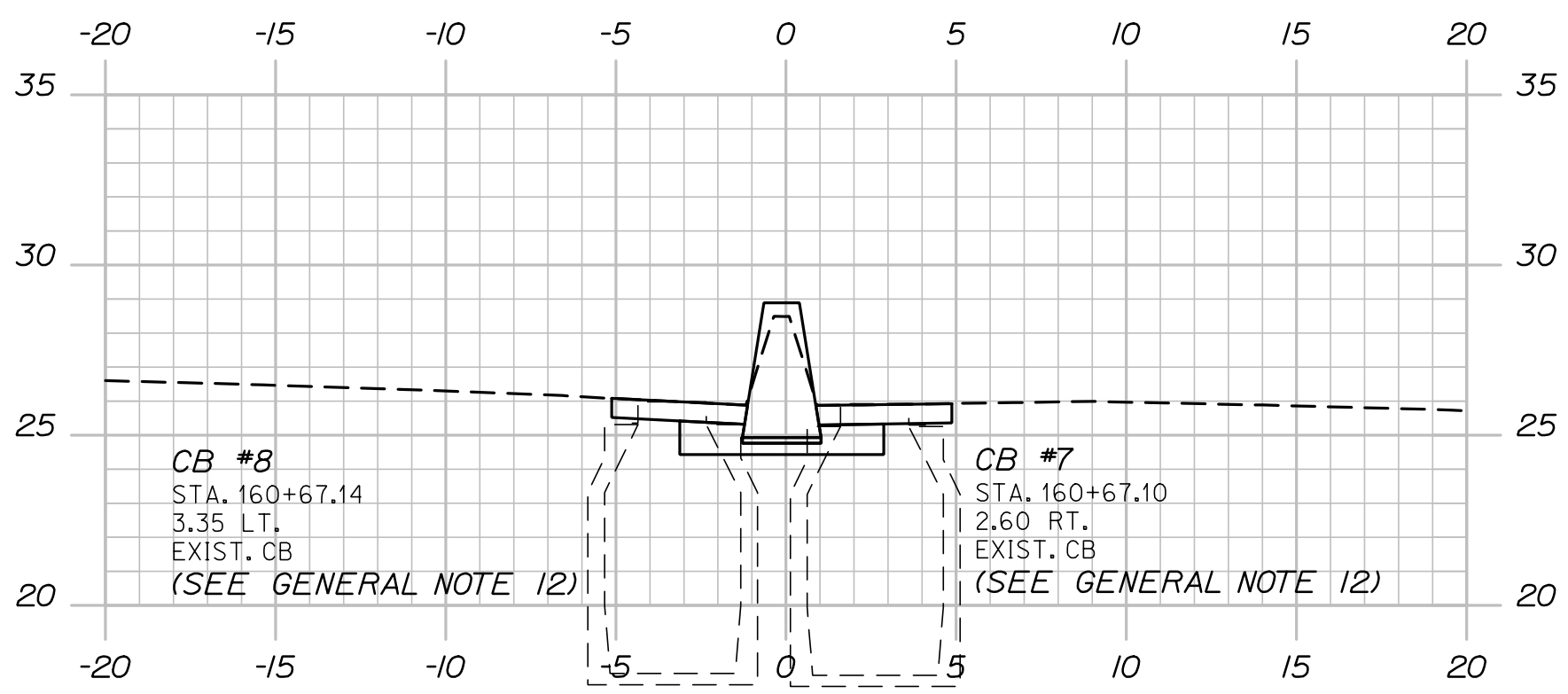
158+51



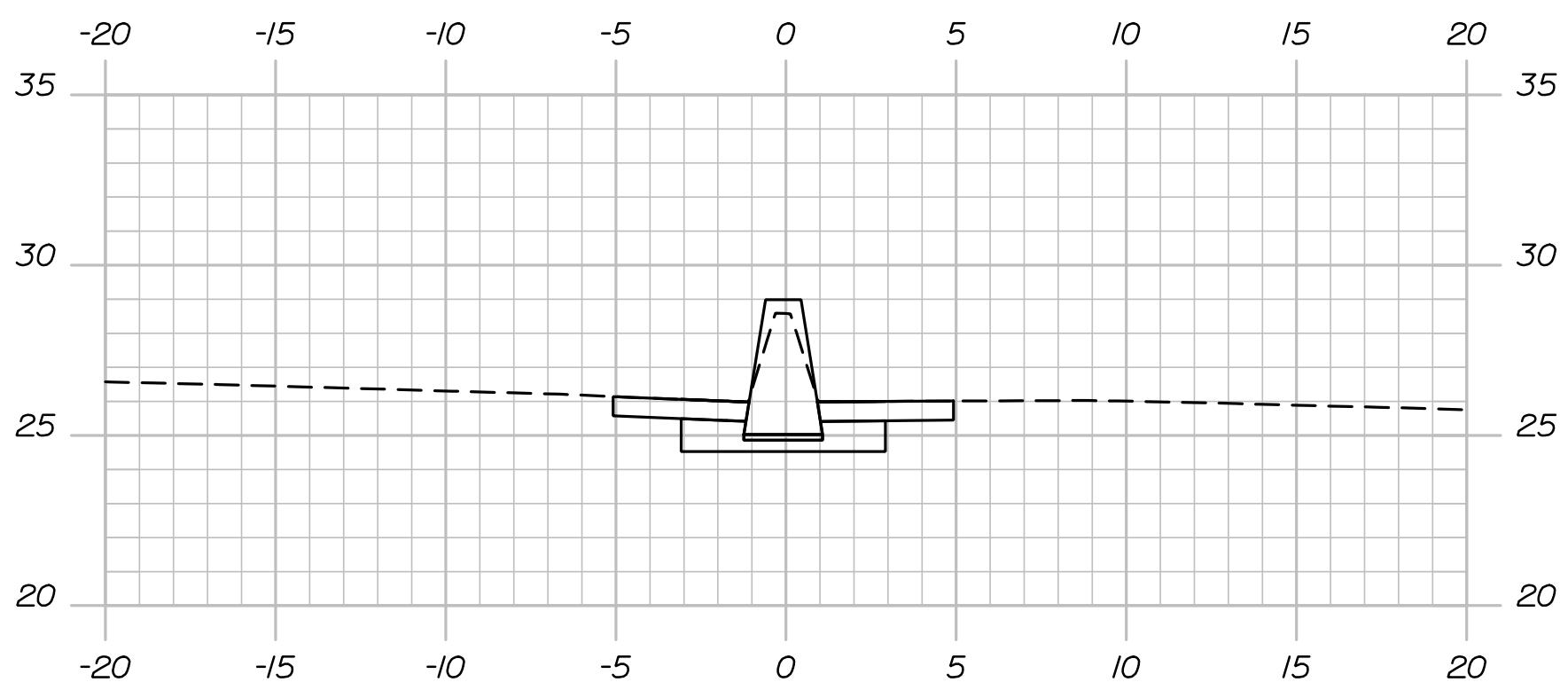
161+50.00



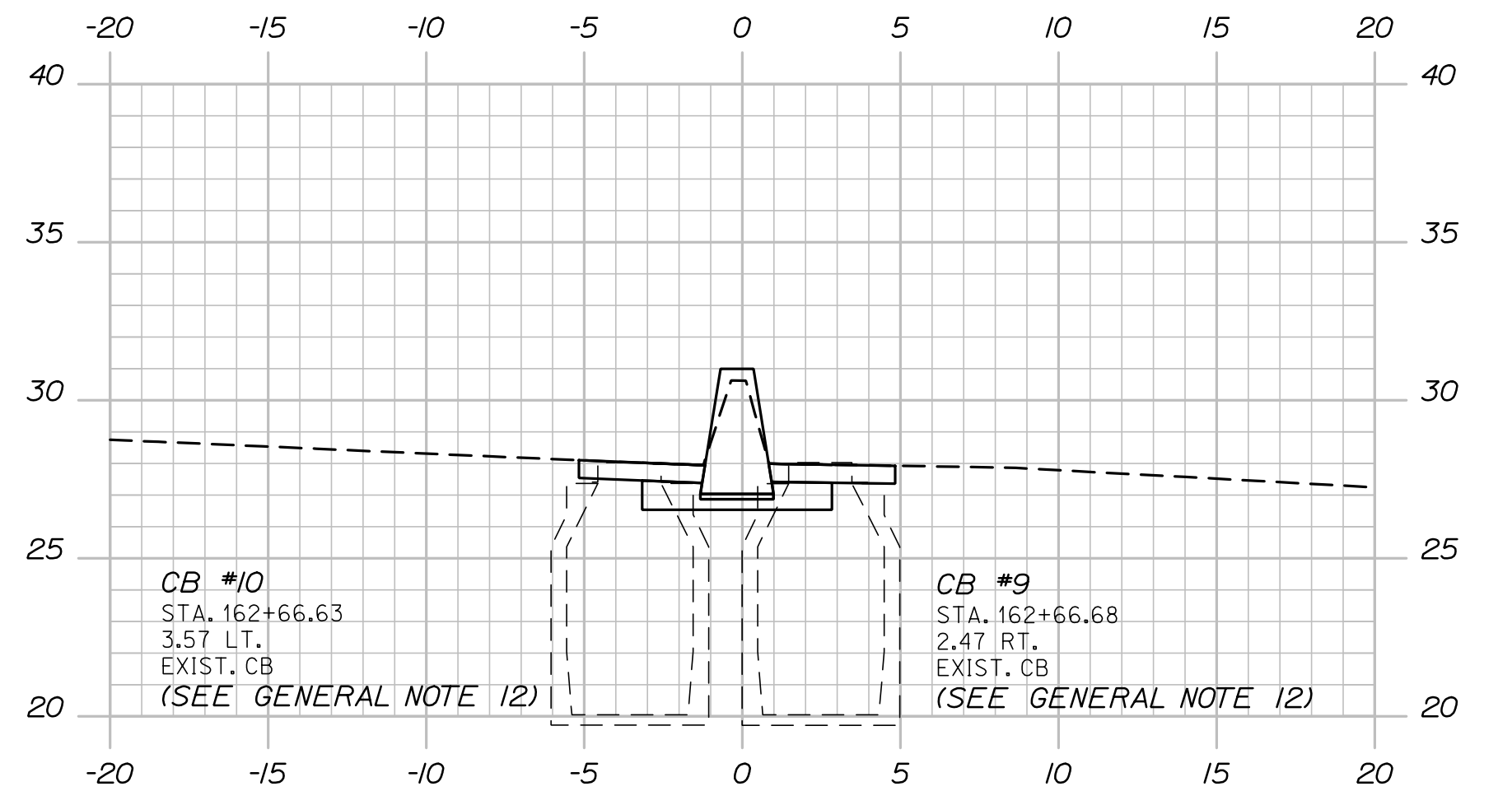
161+00.00



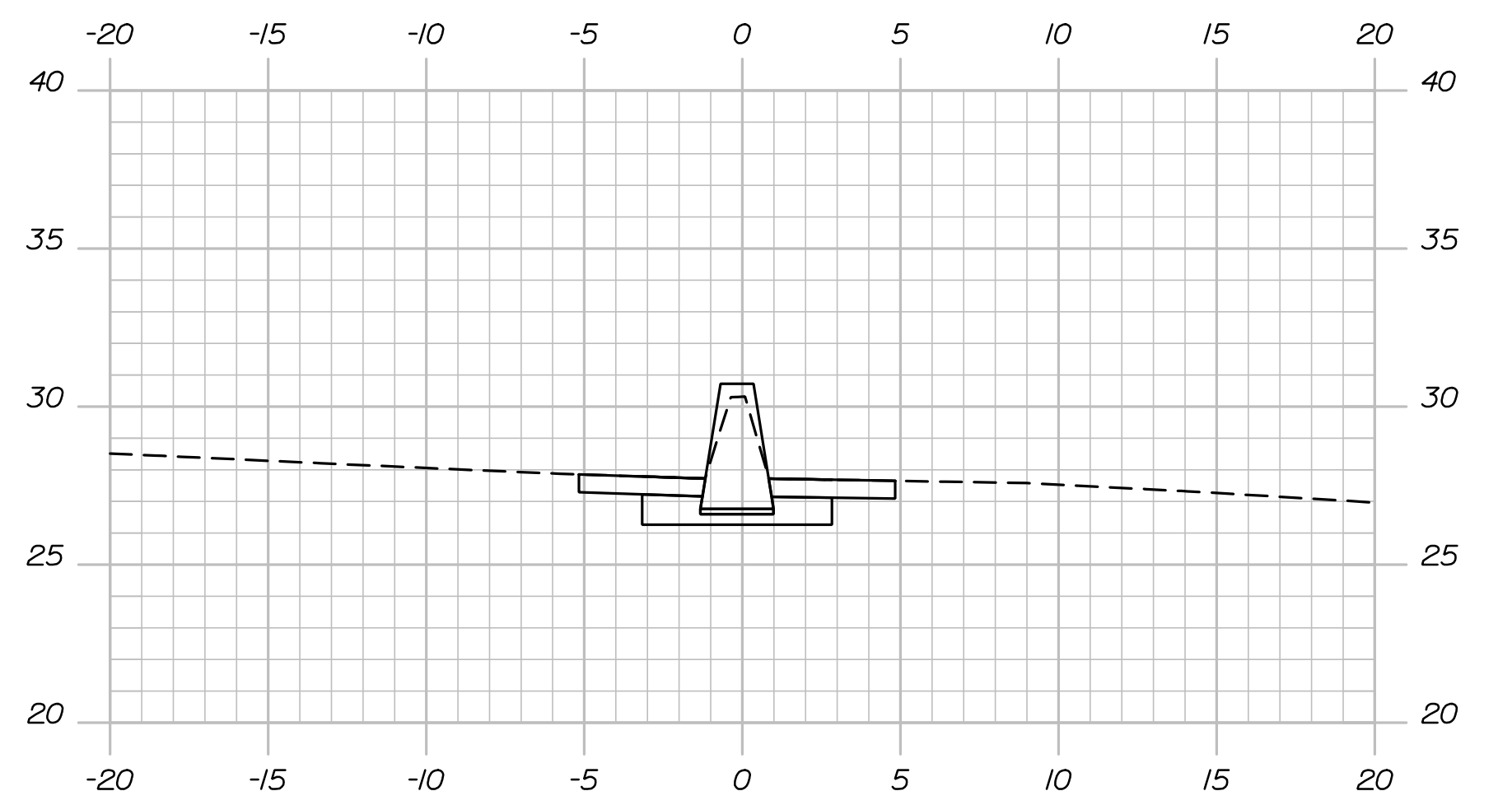
160+67



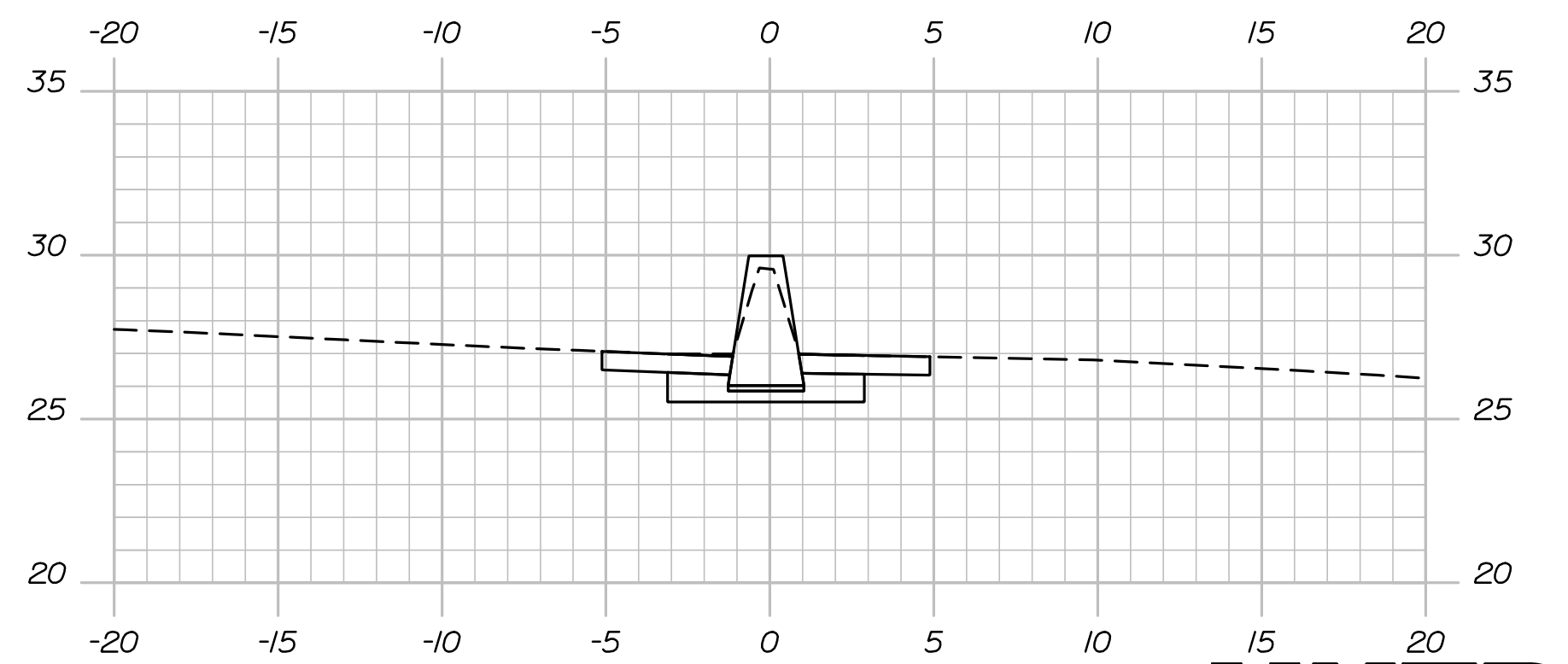
160+50.00



162+67



162+50.00



162+00.00

PROJ. MGR.	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER

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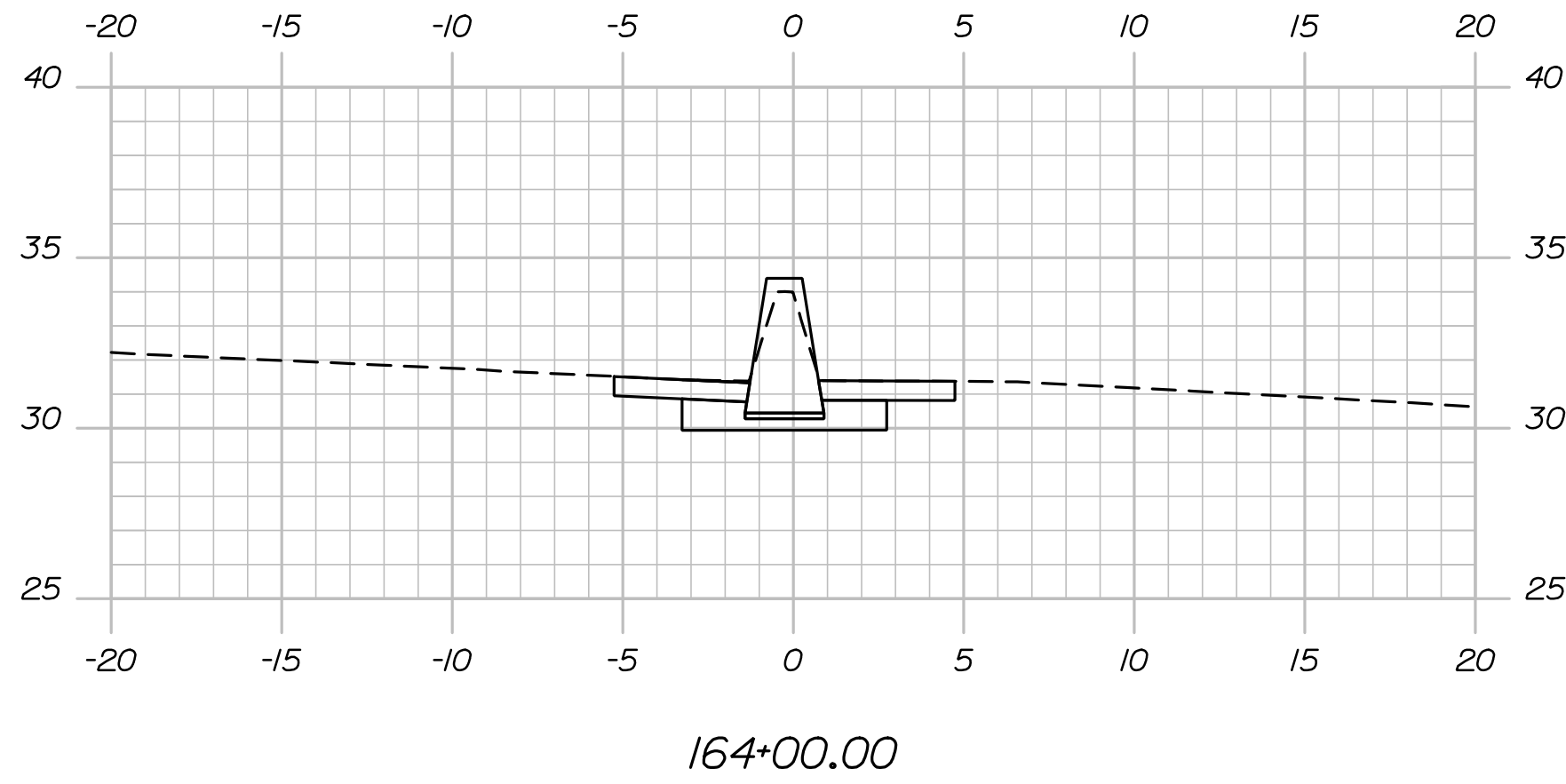


Date: 12/15/2021

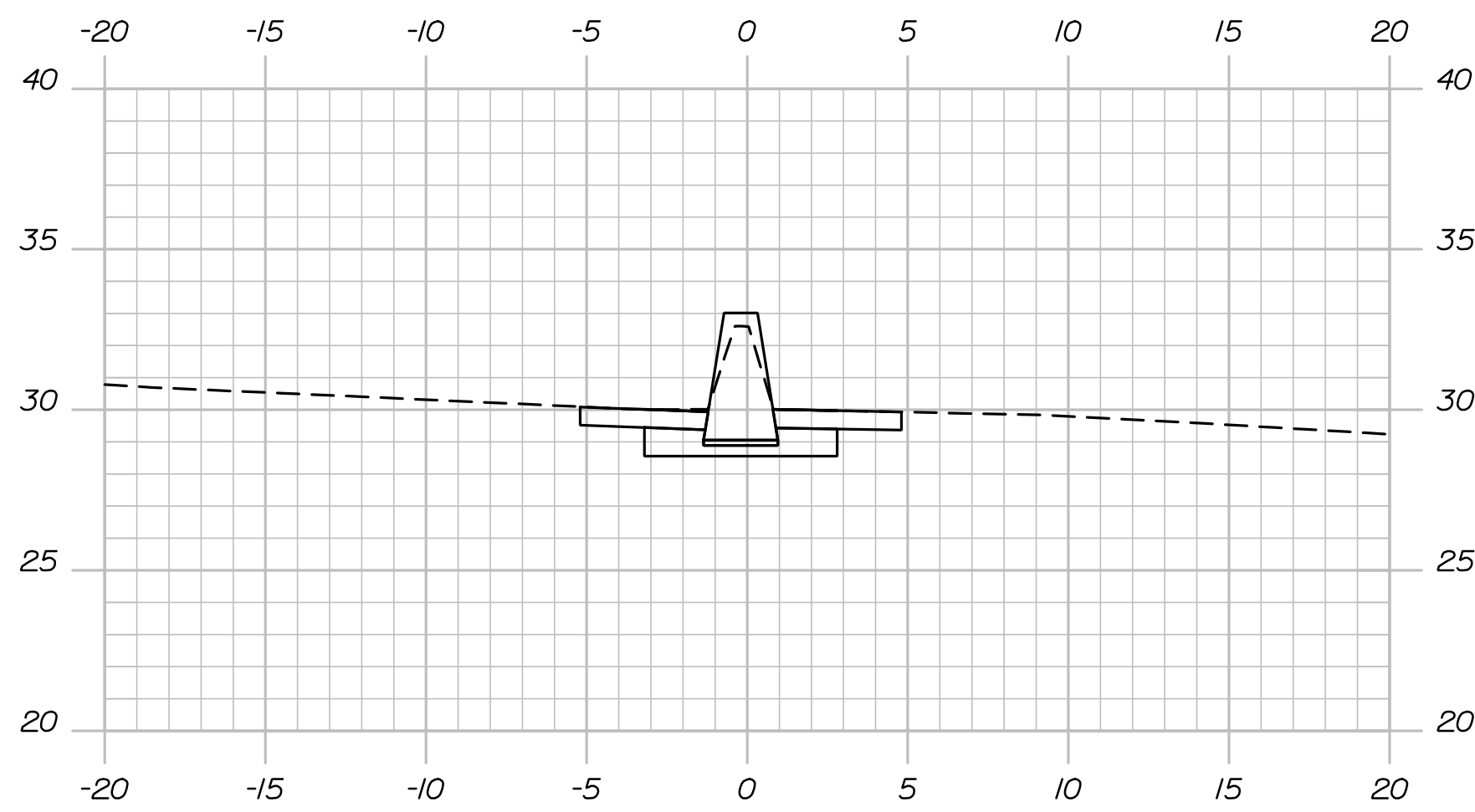
Username:

Division:

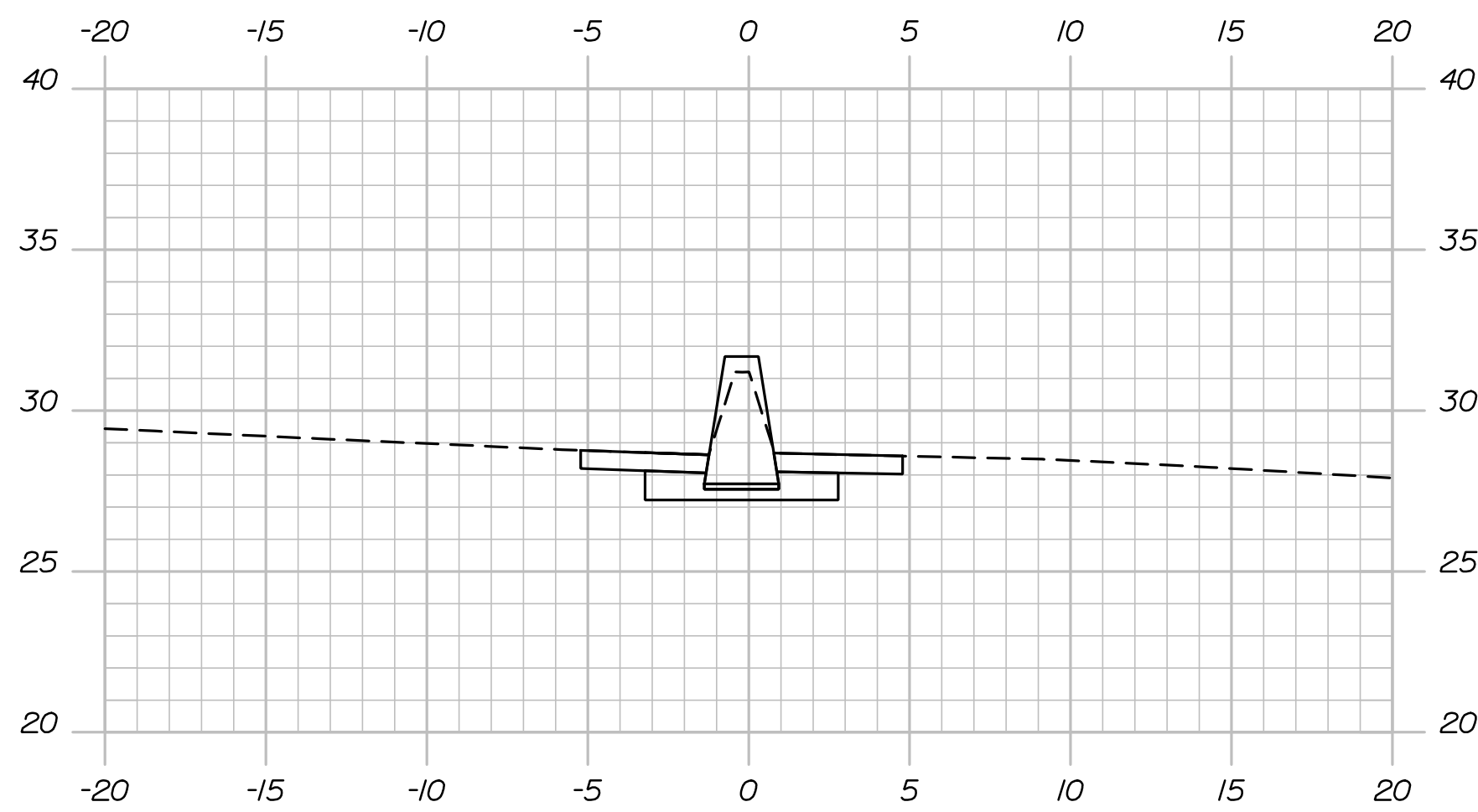
Filename: Xsect.dgn



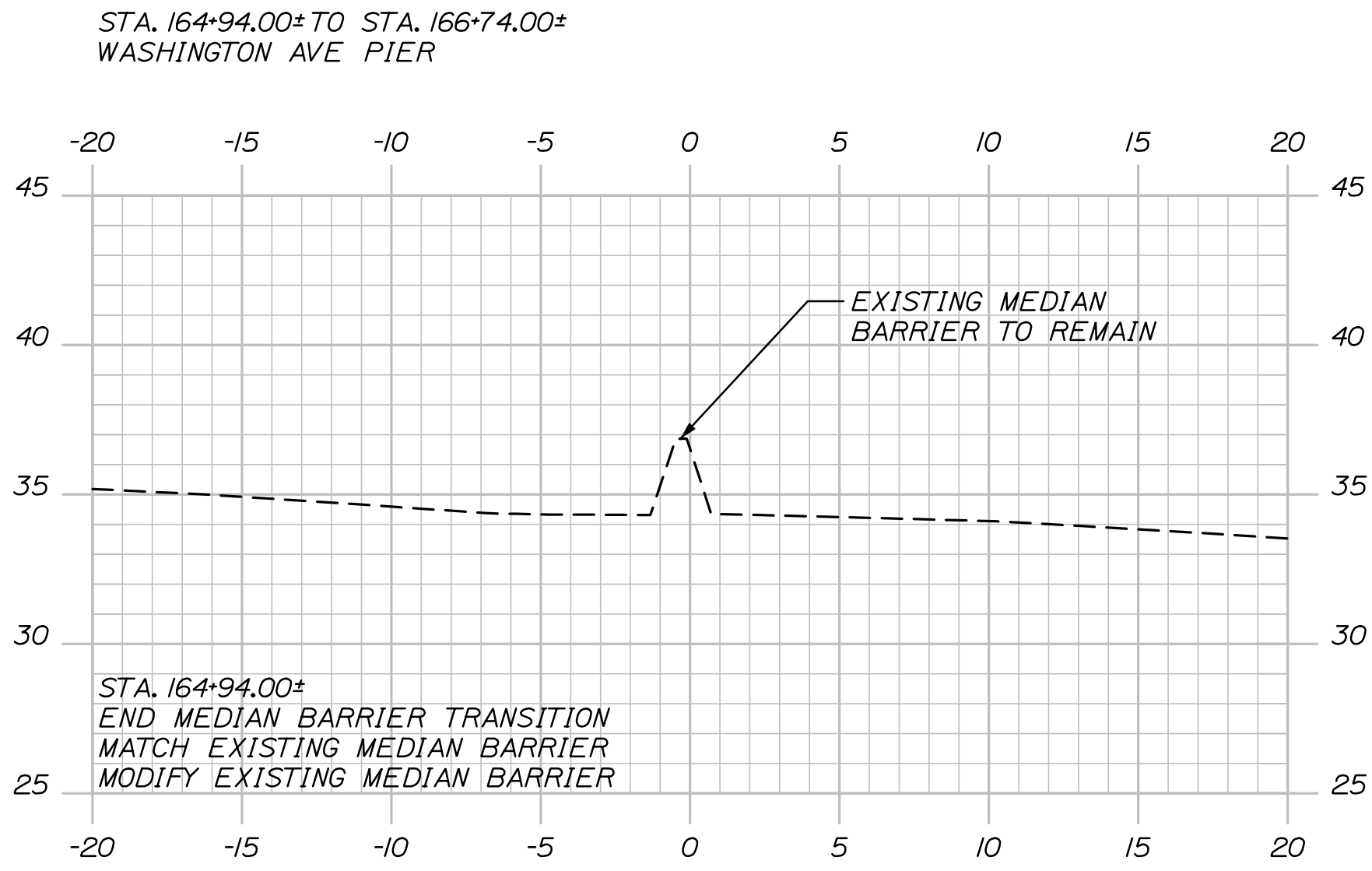
164+00.00



163+50.00

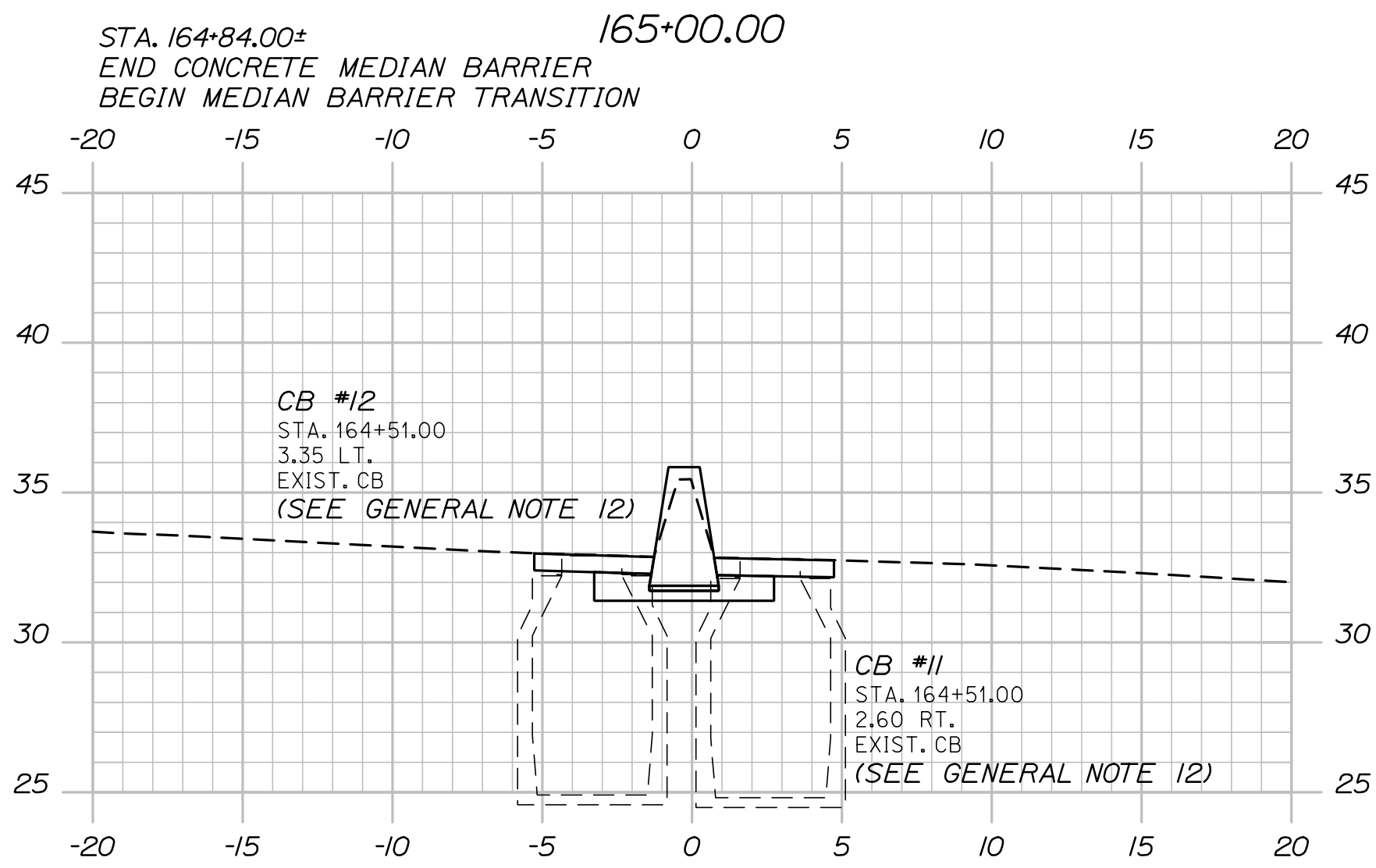


163+00.00



STA. 164+94.00+ TO STA. 166+74.00+
WASHINGTON AVE PIER

STA. 164+94.00+
END MEDIAN BARRIER TRANSITION
MATCH EXISTING MEDIAN BARRIER
MODIFY EXISTING MEDIAN BARRIER

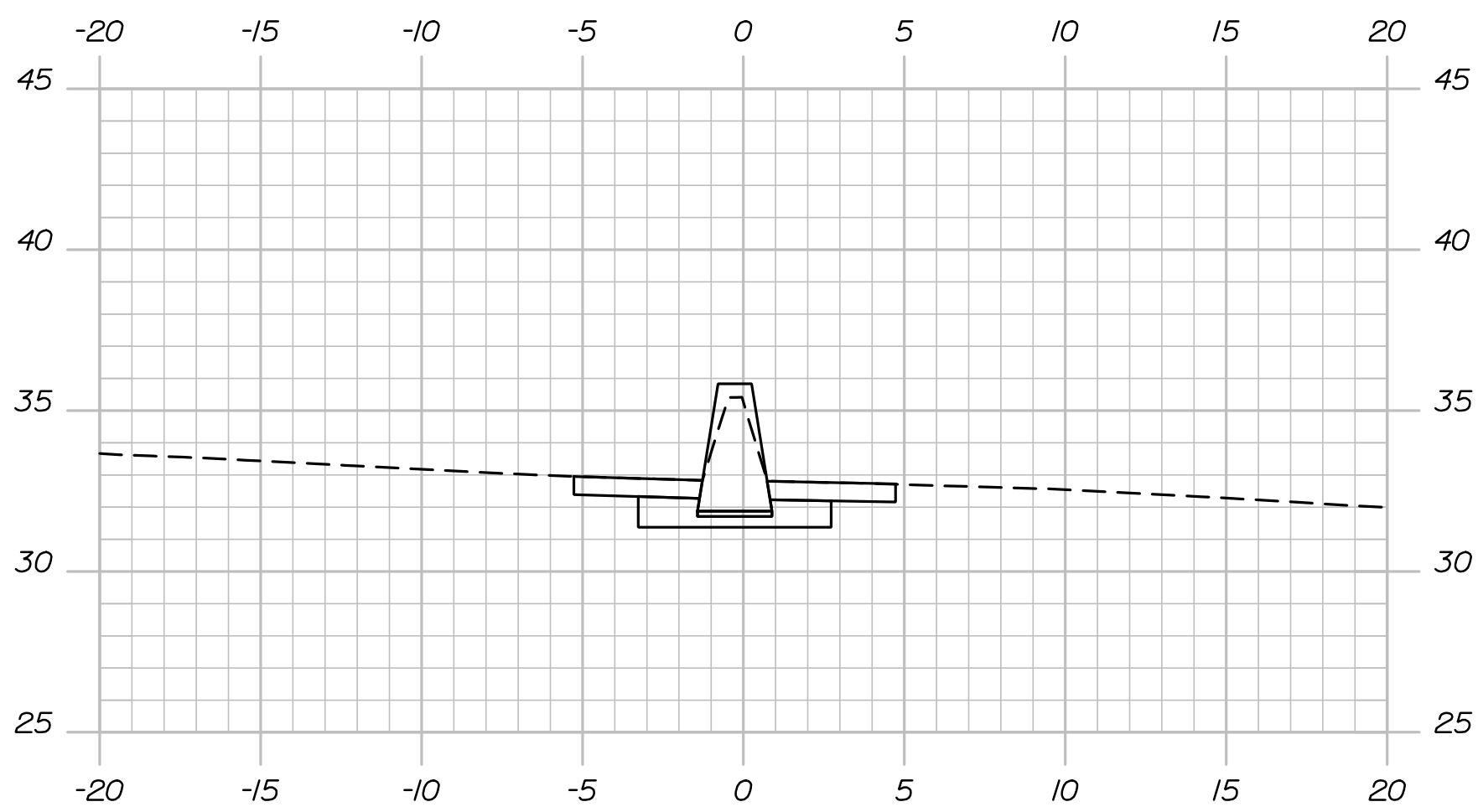


STA. 164+84.00+
END CONCRETE MEDIAN BARRIER
BEGIN MEDIAN BARRIER TRANSITION

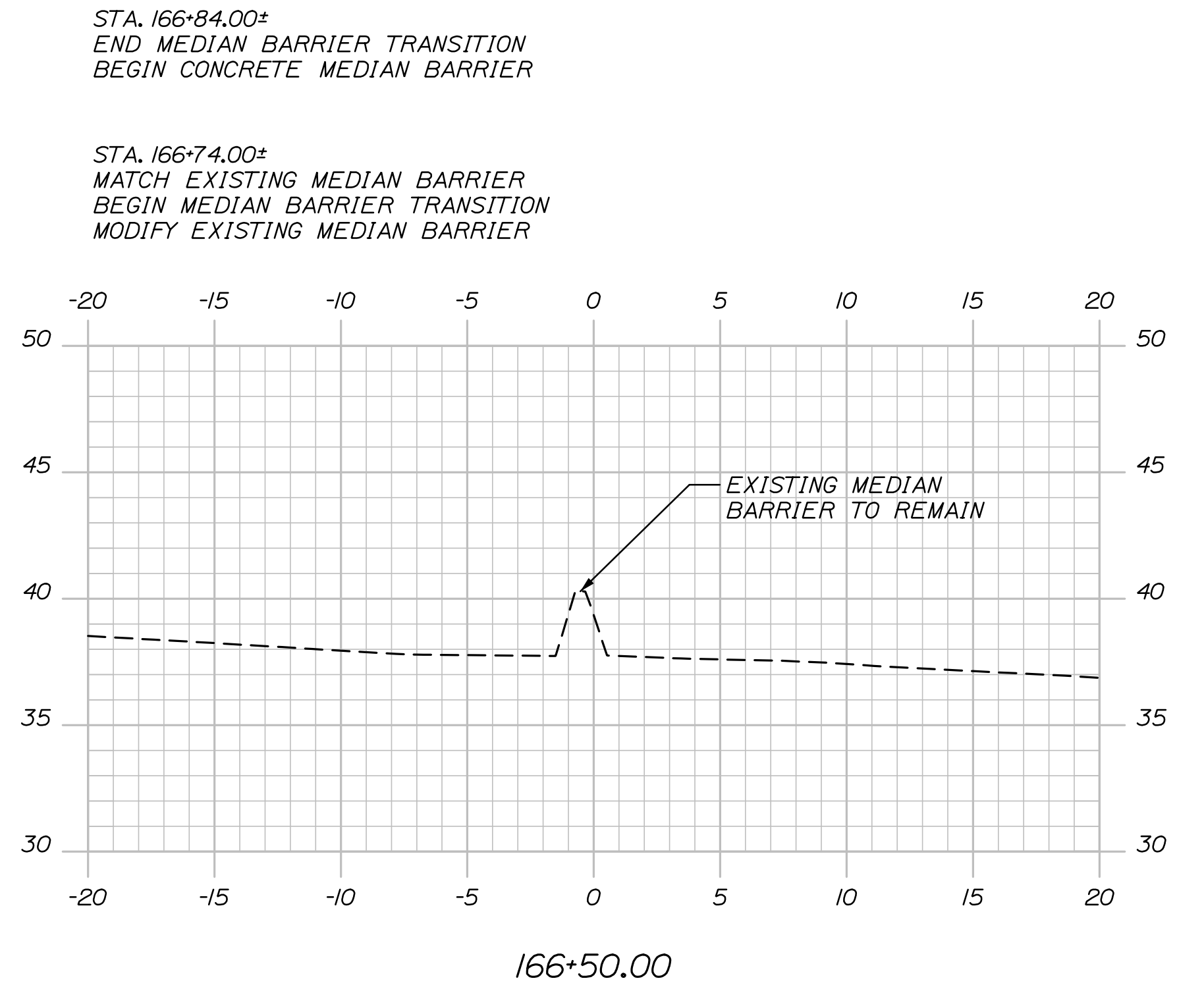
CB #12
STA. 164+51.00
3.35 LT.
EXIST. CB
(SEE GENERAL NOTE 12)

CB #11
STA. 164+51.00
2.60 RT.
EXIST. CB
(SEE GENERAL NOTE 12)

164+51

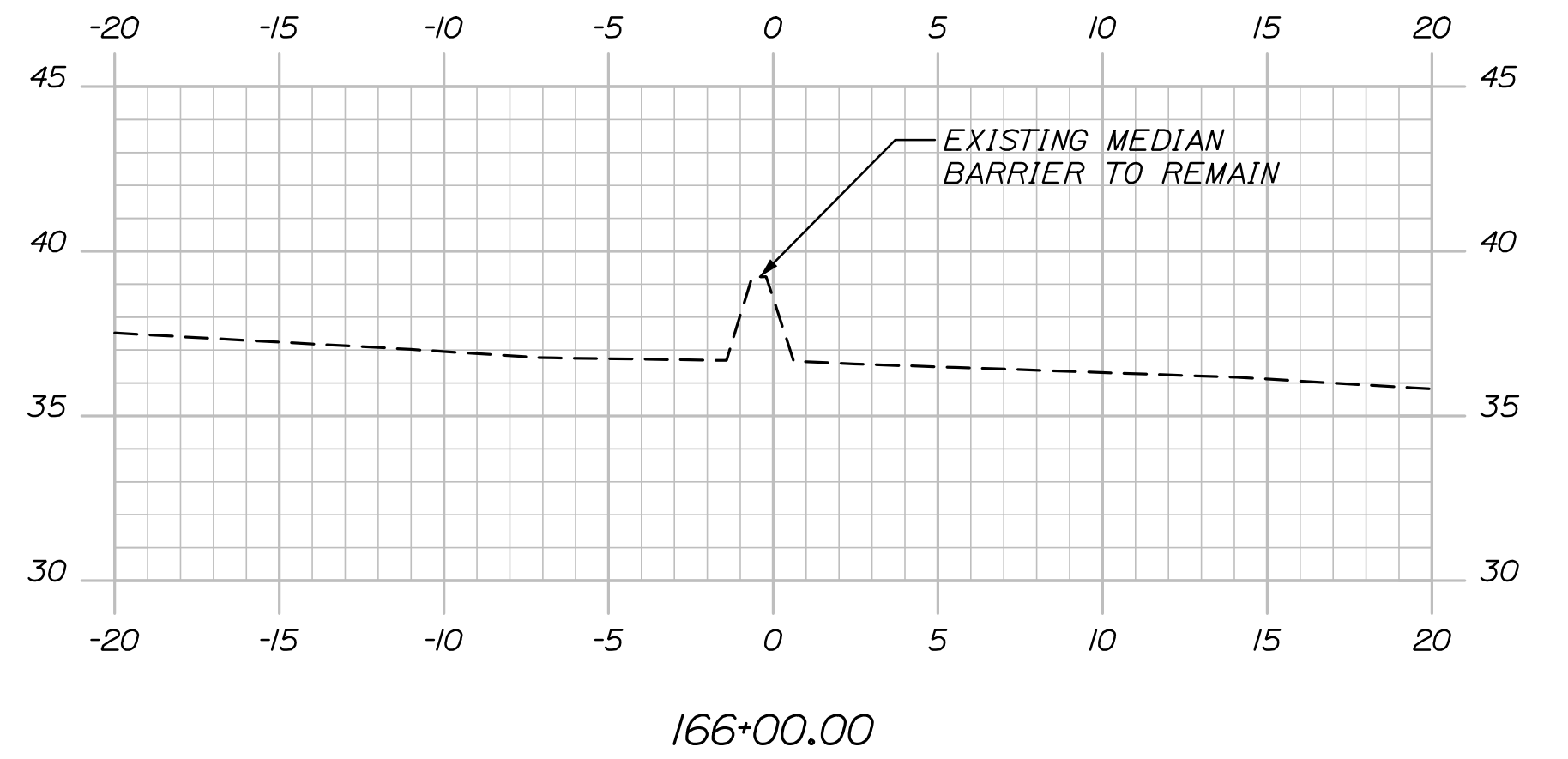


164+50.00

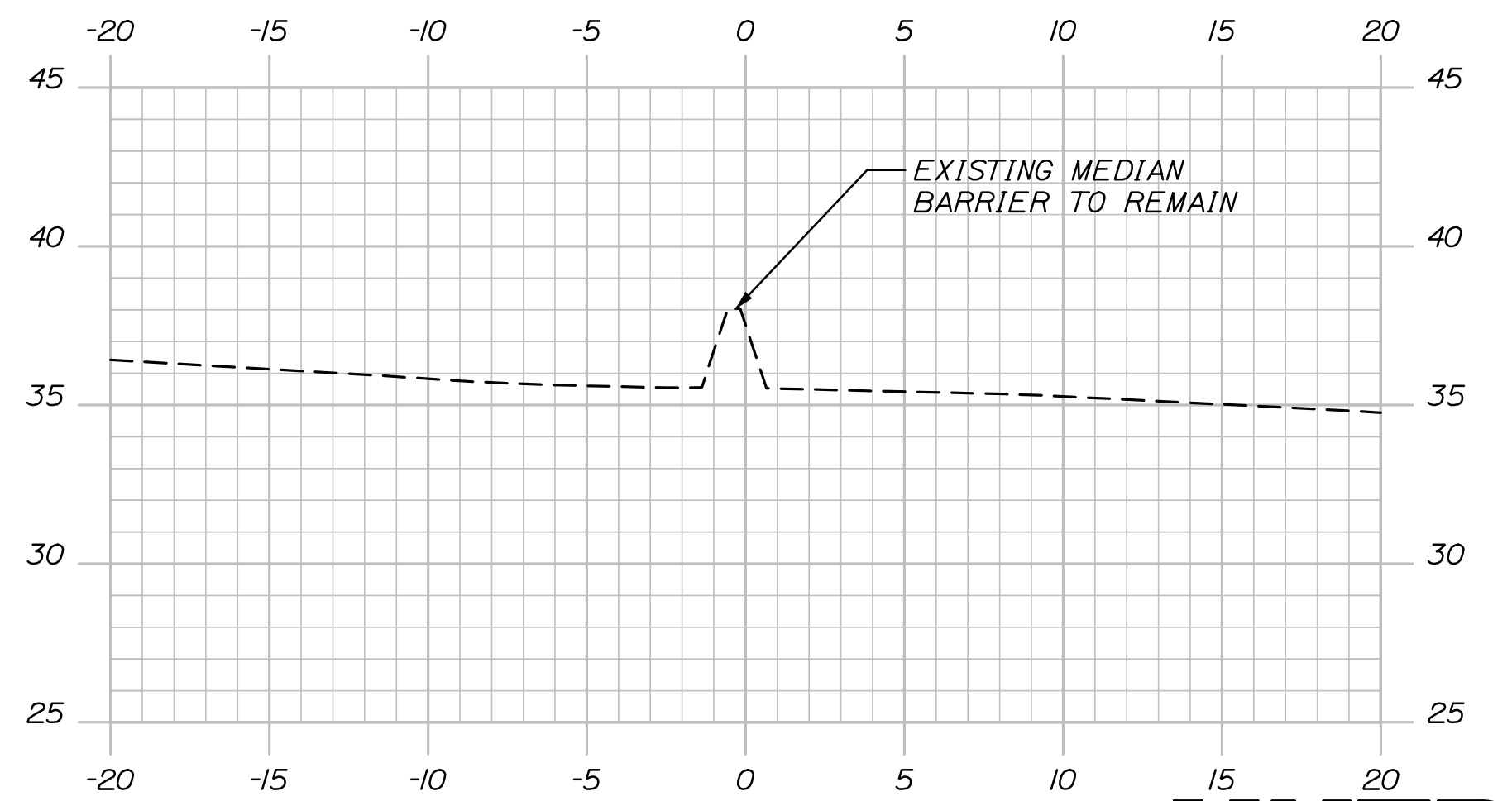


STA. 166+84.00+
END MEDIAN BARRIER TRANSITION
BEGIN CONCRETE MEDIAN BARRIER

STA. 166+74.00+
MATCH EXISTING MEDIAN BARRIER
BEGIN MEDIAN BARRIER TRANSITION
MODIFY EXISTING MEDIAN BARRIER



166+50.00



166+00.00

165+50.00

PROJ. MGR.	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER

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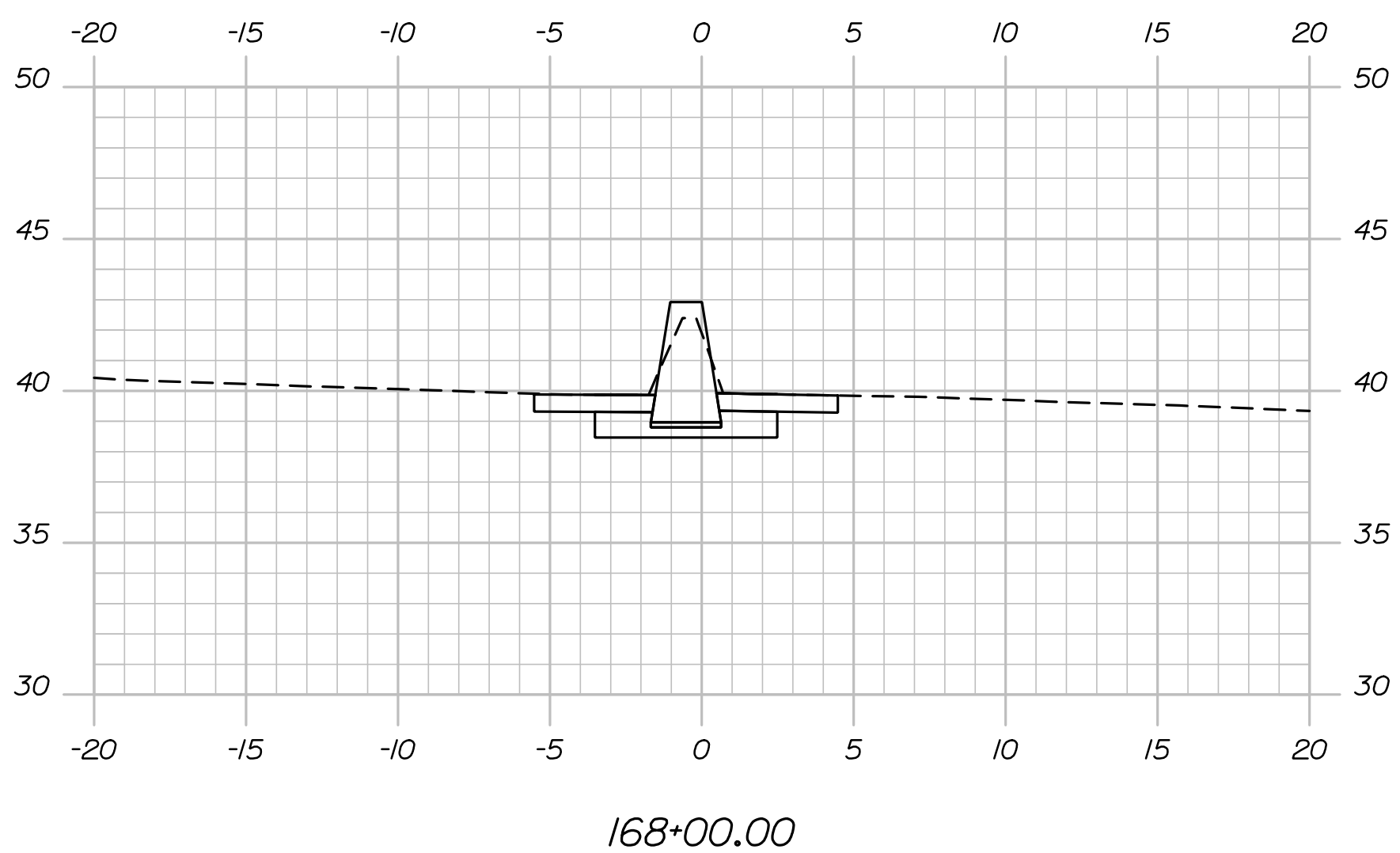
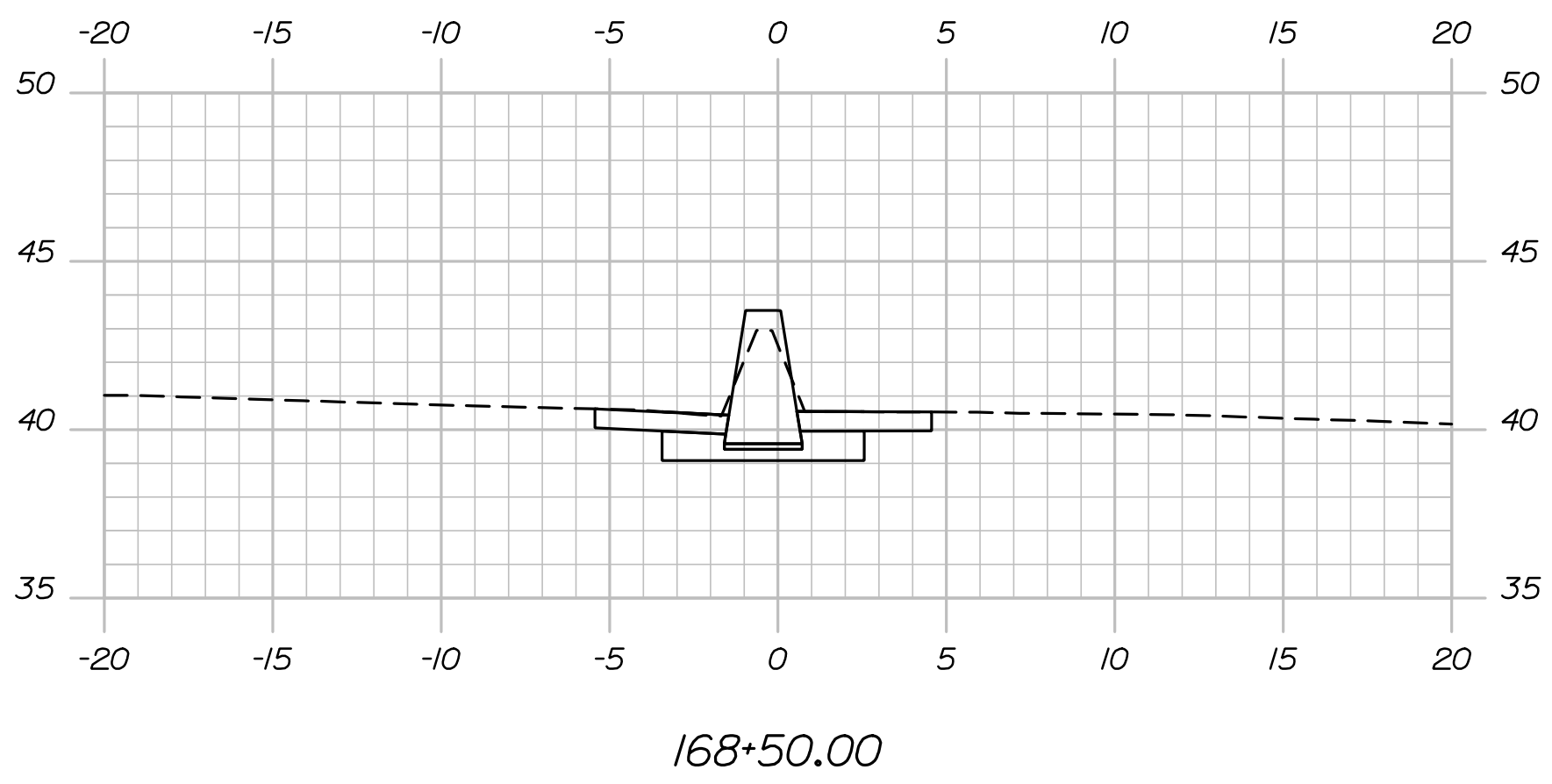
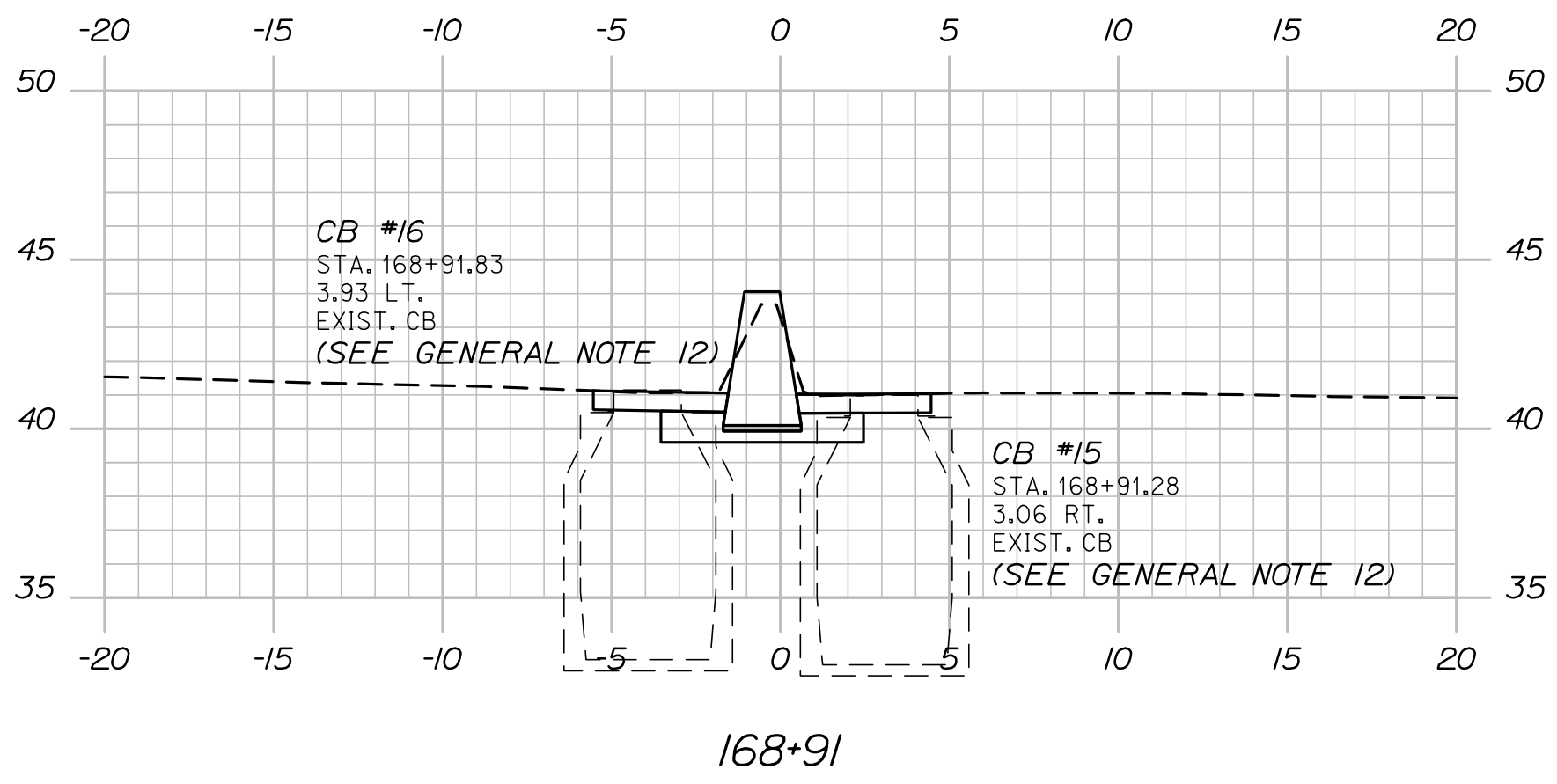
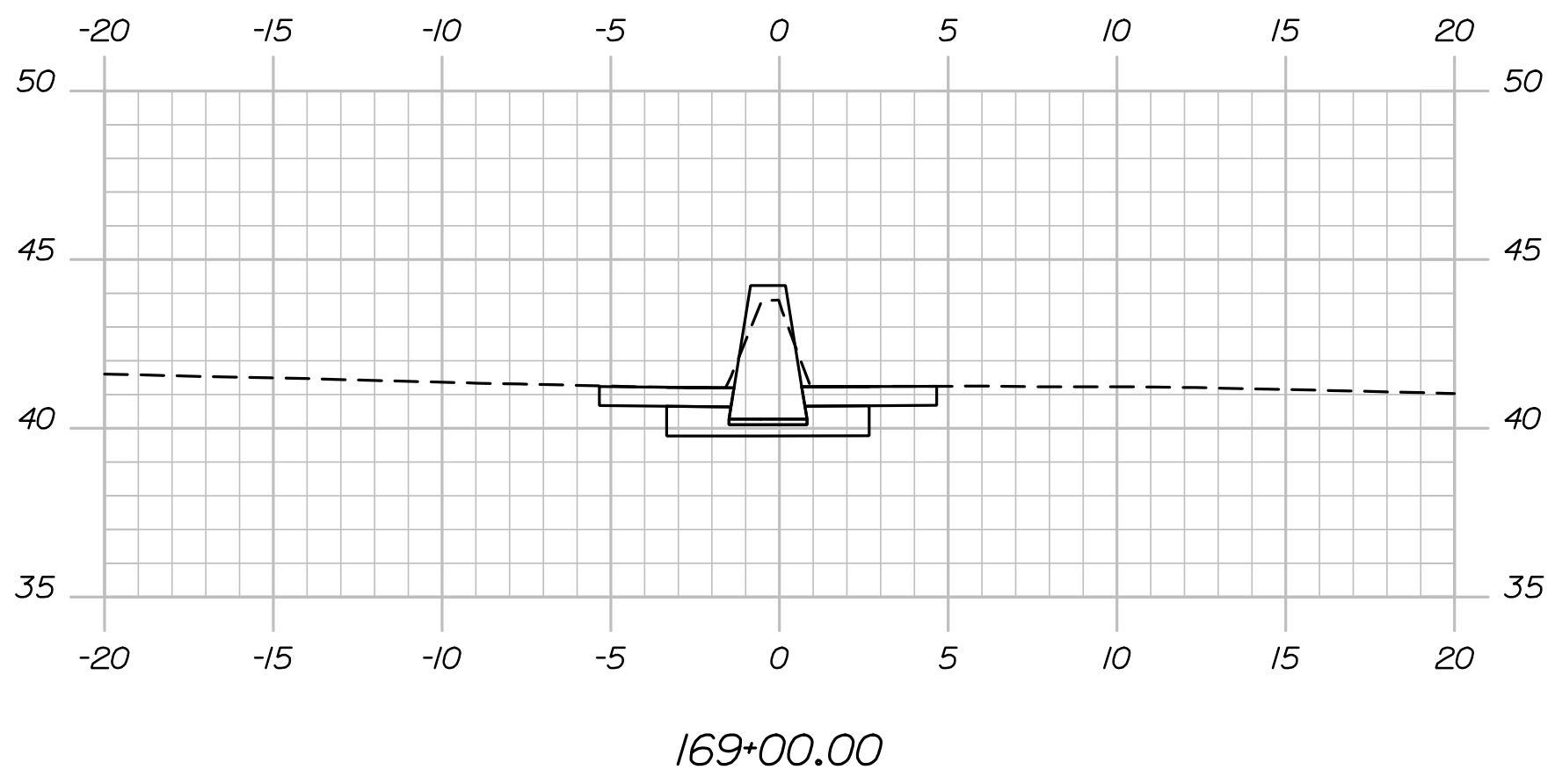
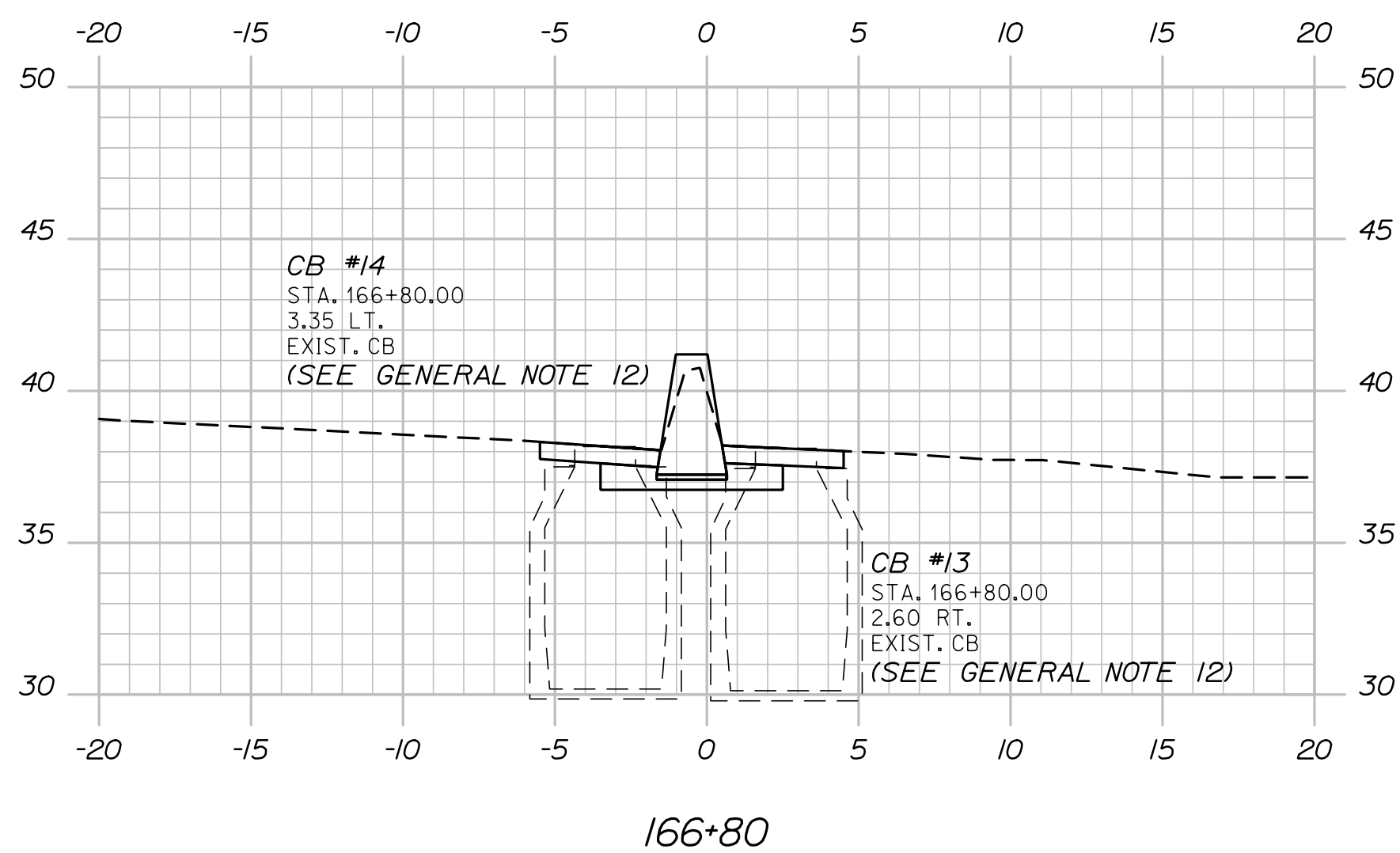
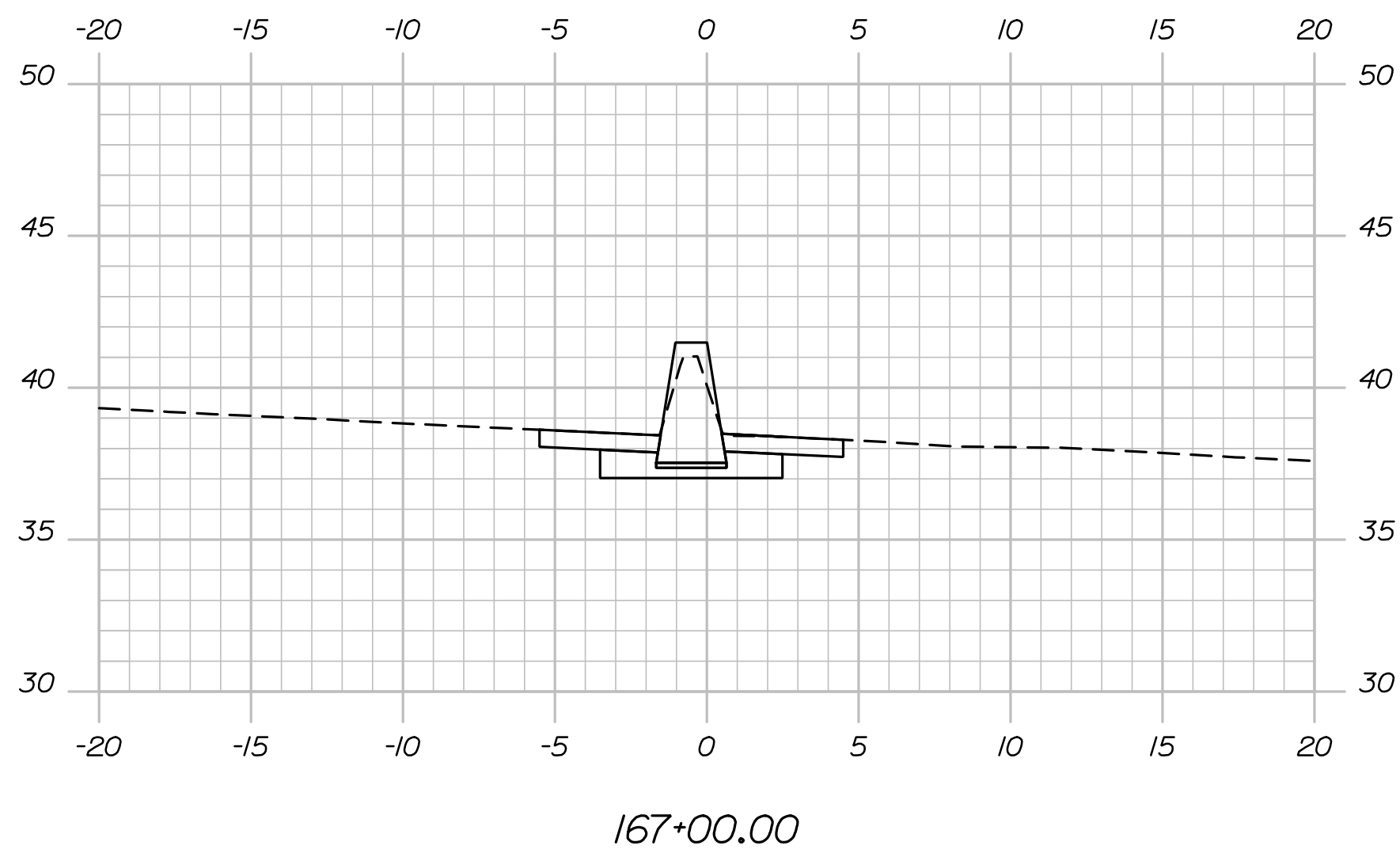
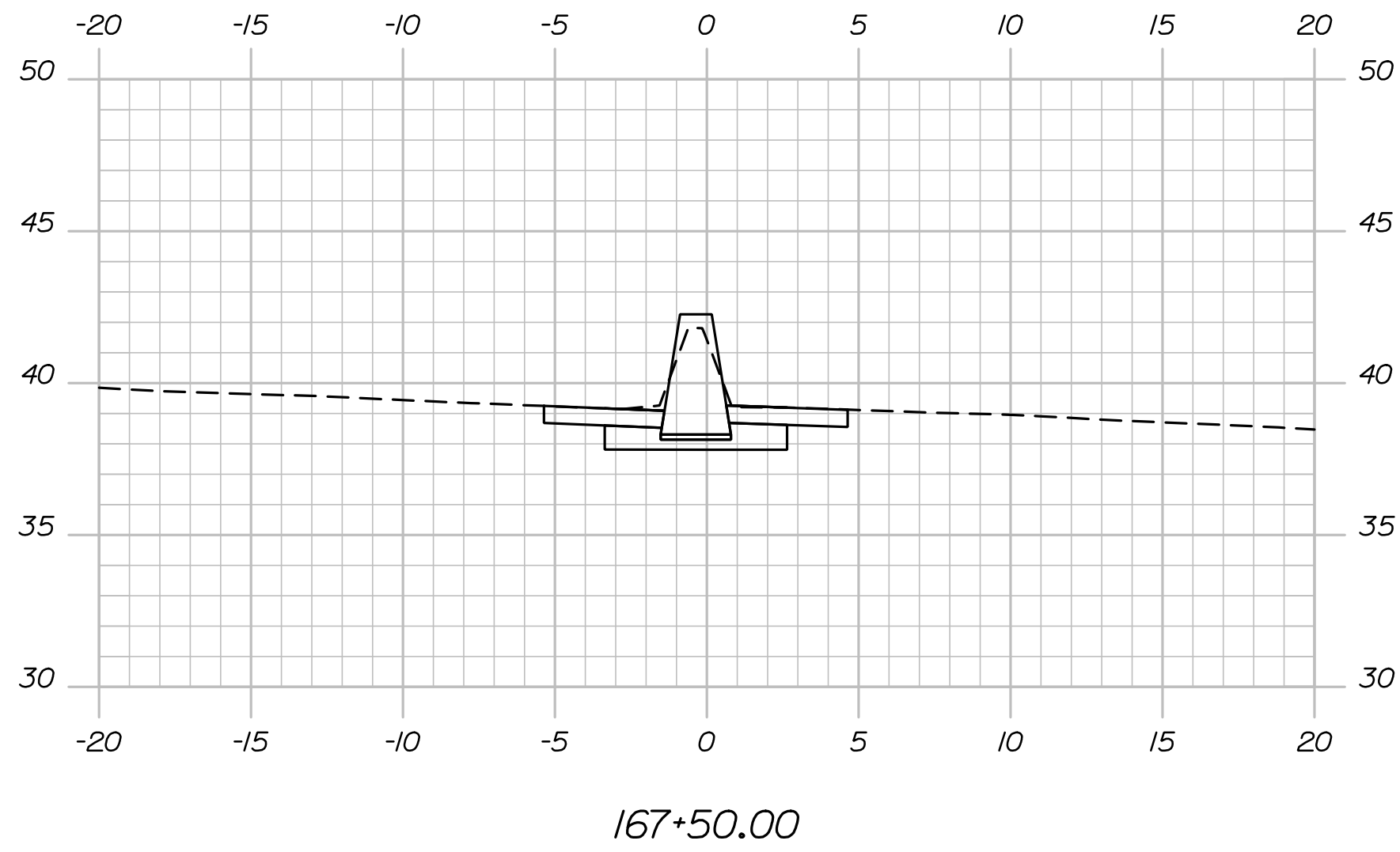


Date: 12/15/2021

Username:

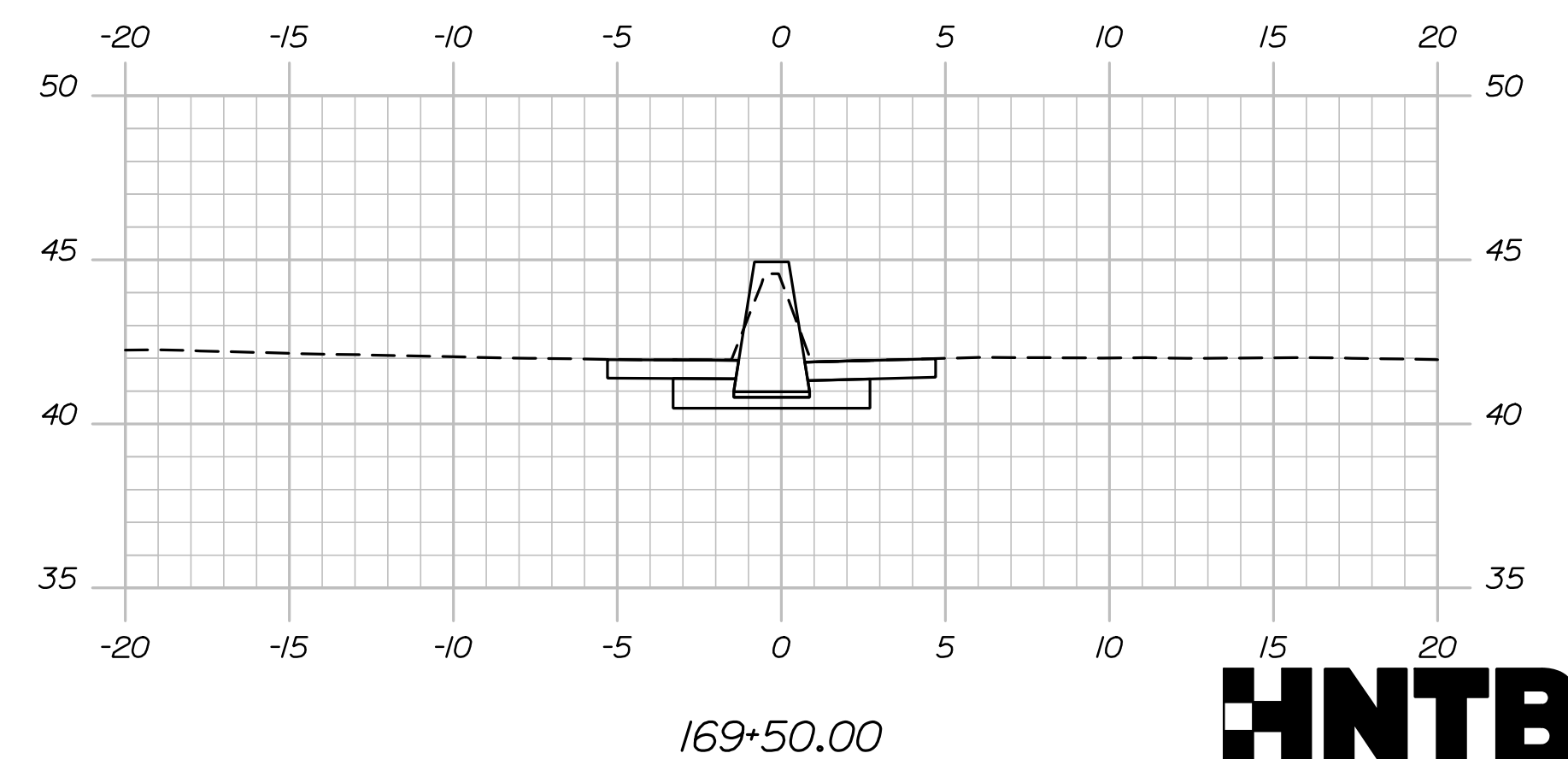
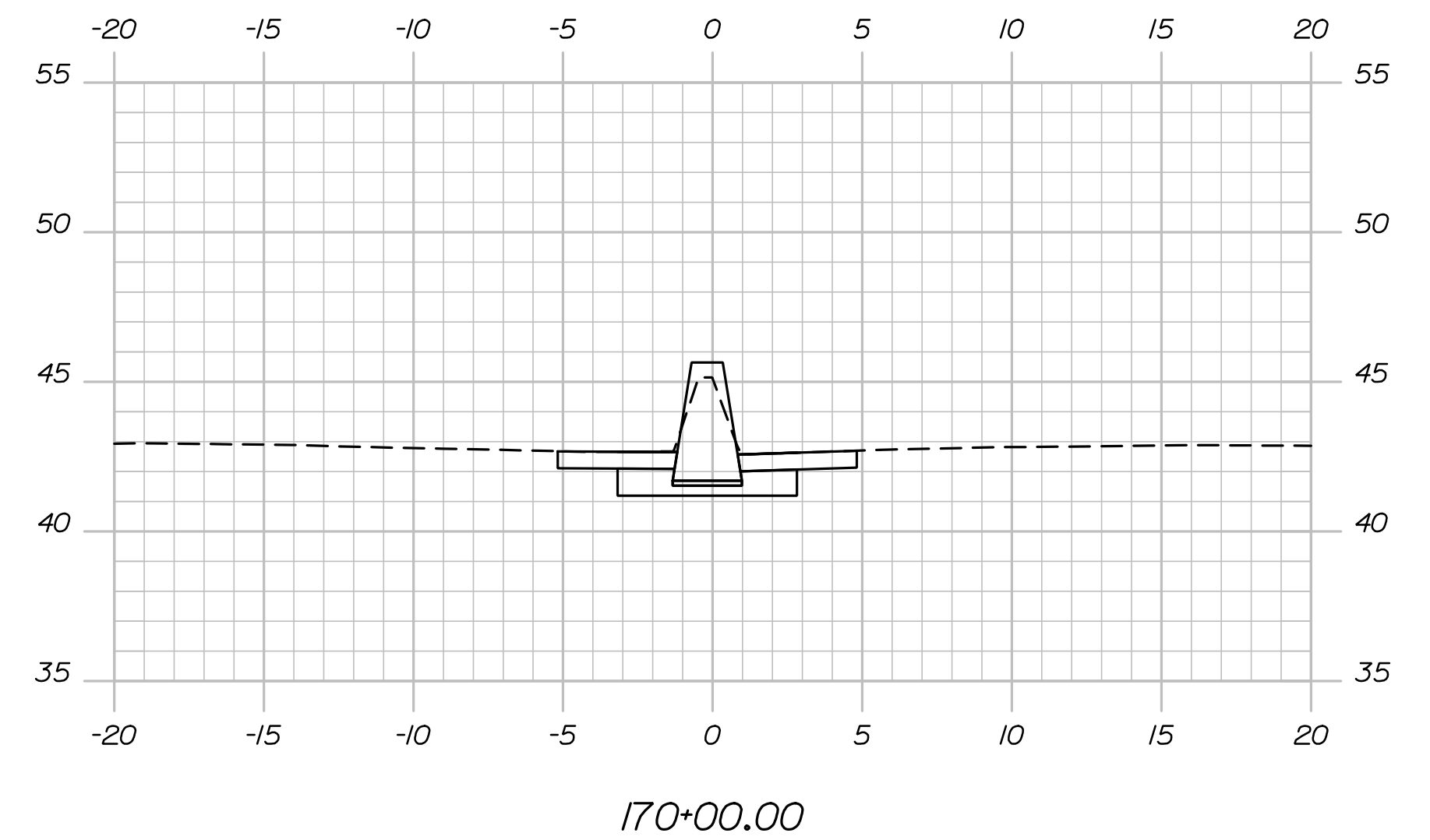
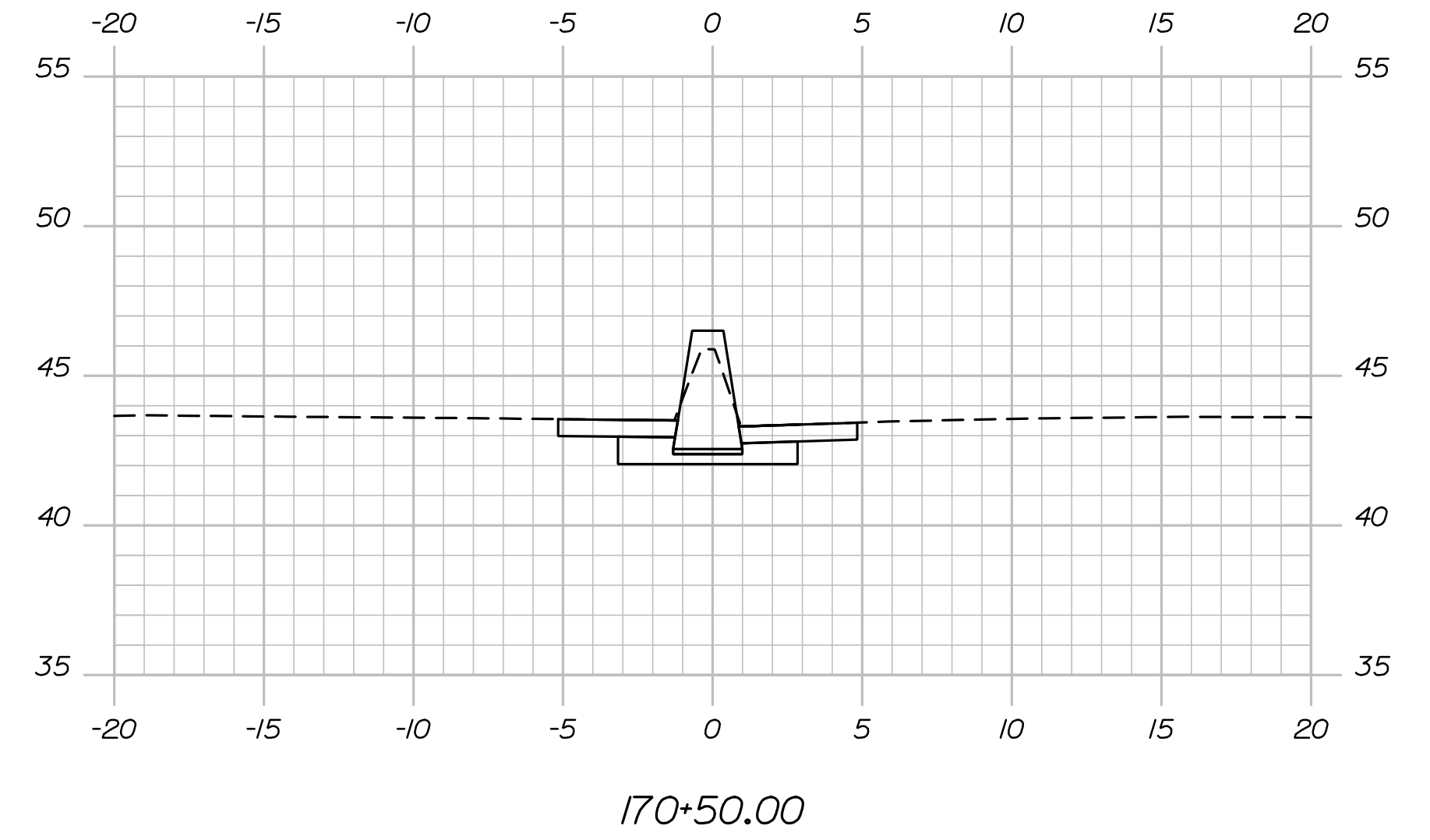
Division:

Filename: Xsect.dgn



STA. 170+84.00+
 END MEDIAN BARRIER TRANSITION
 MATCH EXISTING MEDIAN BARRIER
 MODIFY EXISTING MEDIAN BARRIER

STA. 170+74.00+
 END CONCRETE MEDIAN BARRIER
 BEGIN MEDIAN BARRIER TRANSITION



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 FEDERAL PROJECT 2239400
 WIN
 22394.00
 HIGHWAY PLANS

SIGNATURE
 P.E. NUMBER
 DATE

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
 I-295 MEDIAN BARRIER
 CROSS SECTIONS

SHEET NUMBER

12

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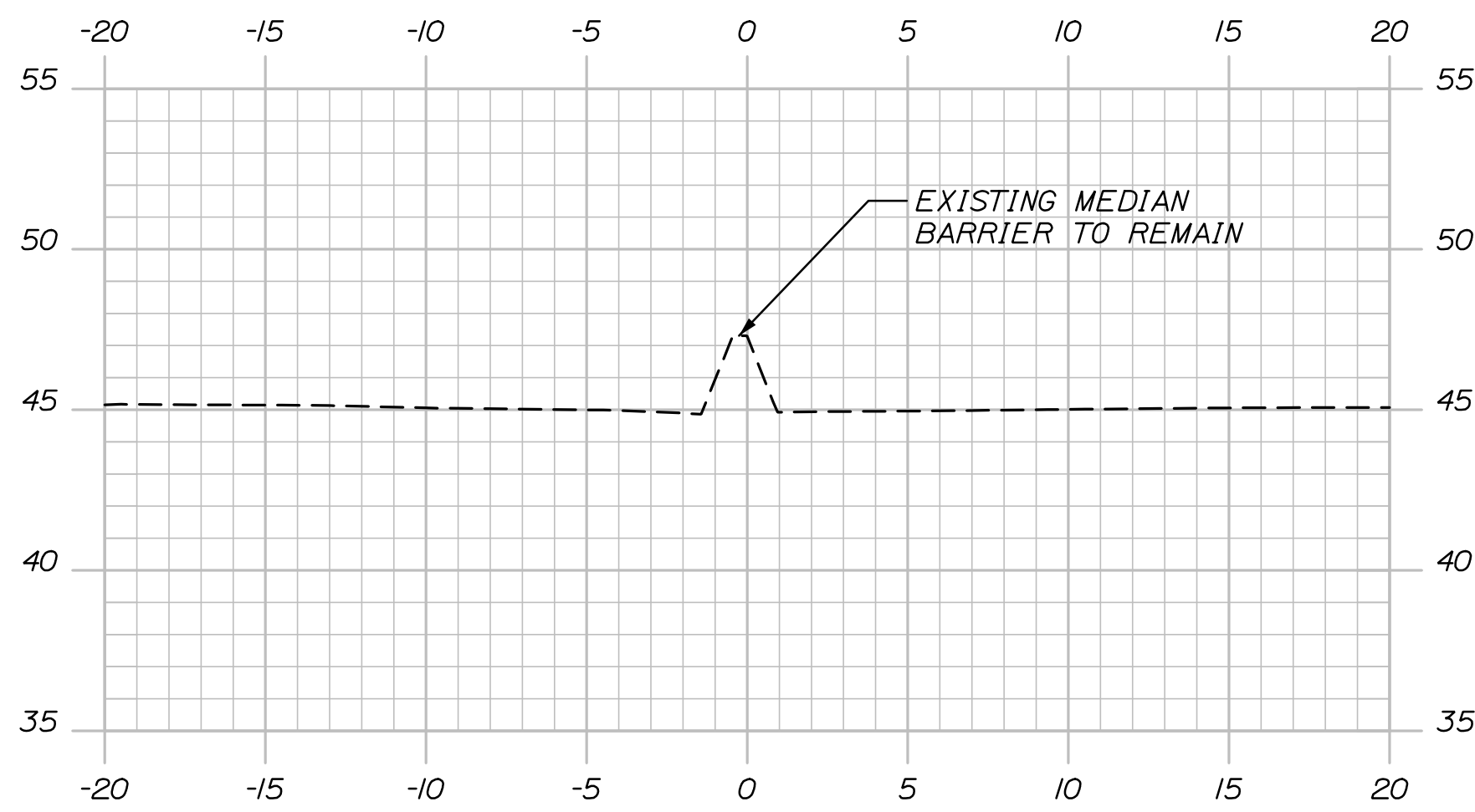
Date: 12/15/2021

Username:

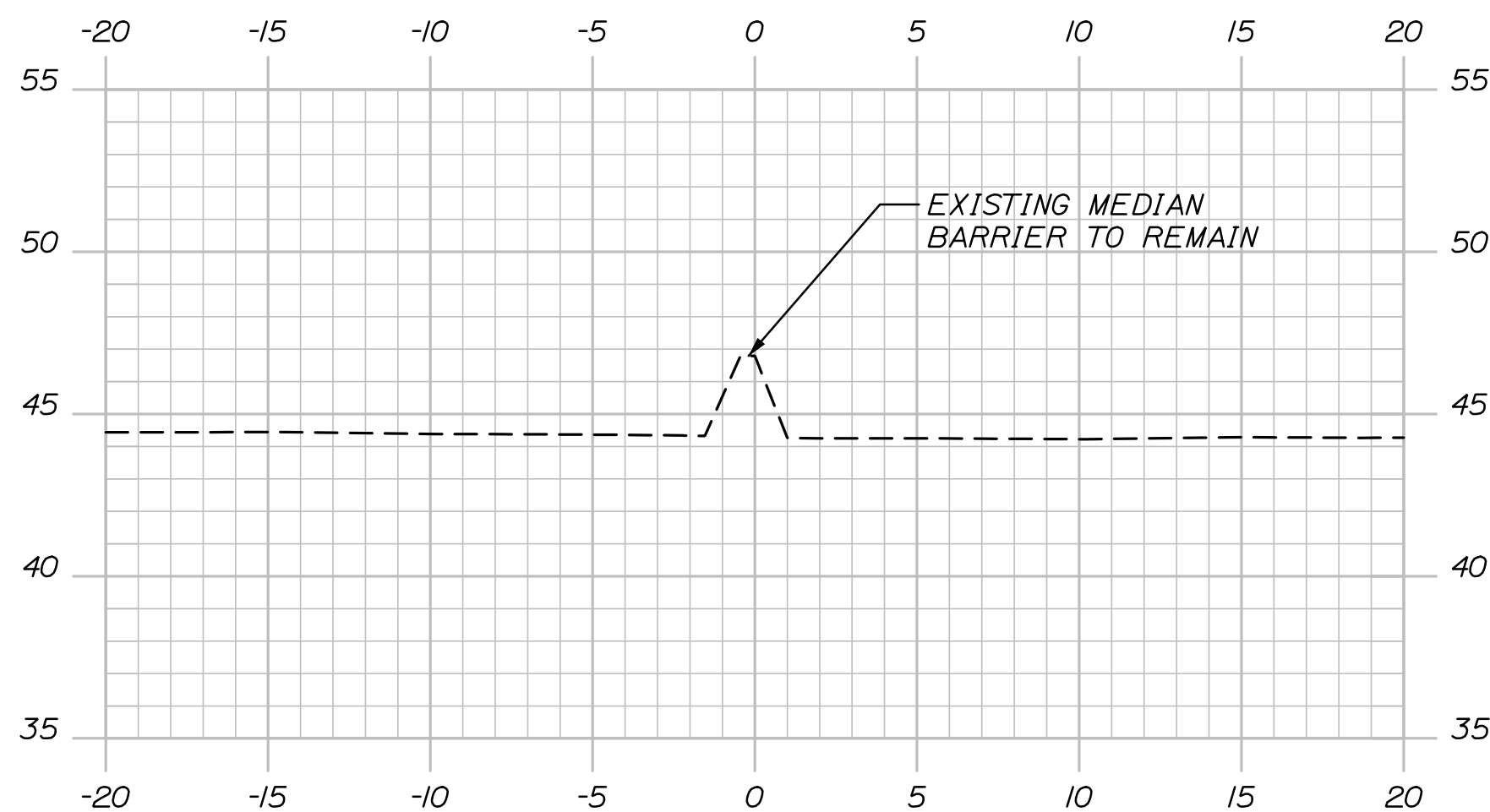
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Filename: Xsect.dgn

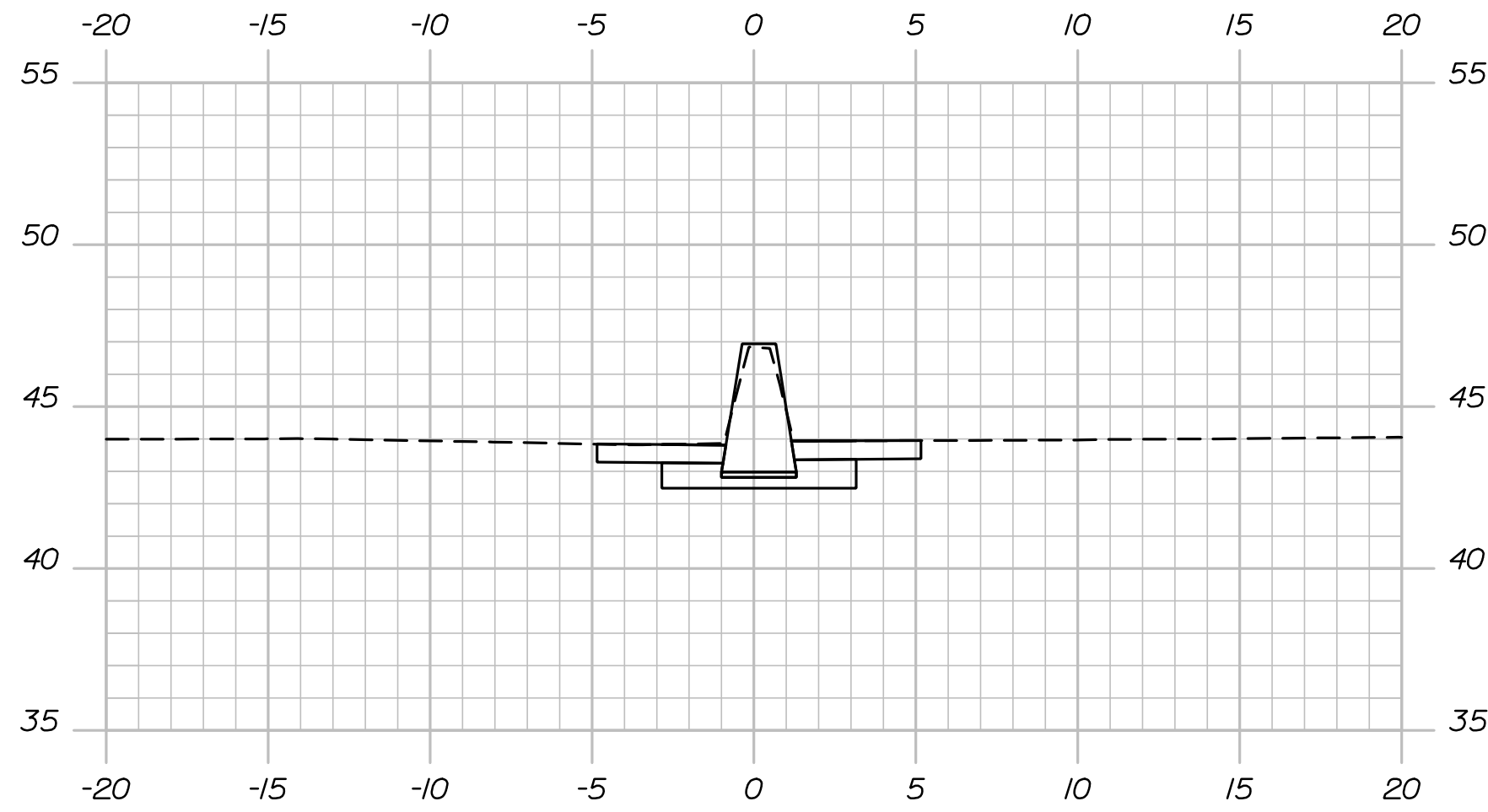
STA. 170+84.00± TO STA. 176+68.00±
SHERWOOD, CNRR, AND KENSINGTON BRIDGES



171+50.00



171+00.00

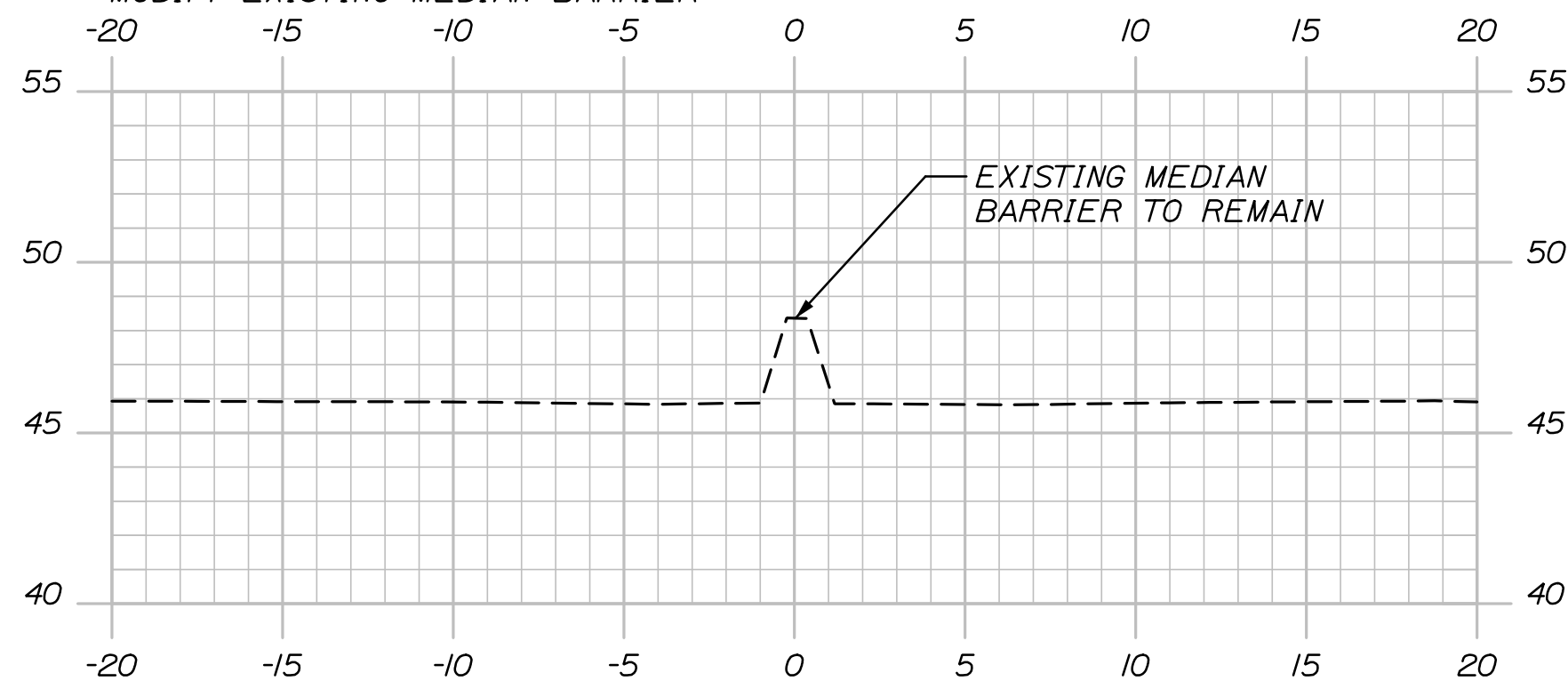


24+50.00

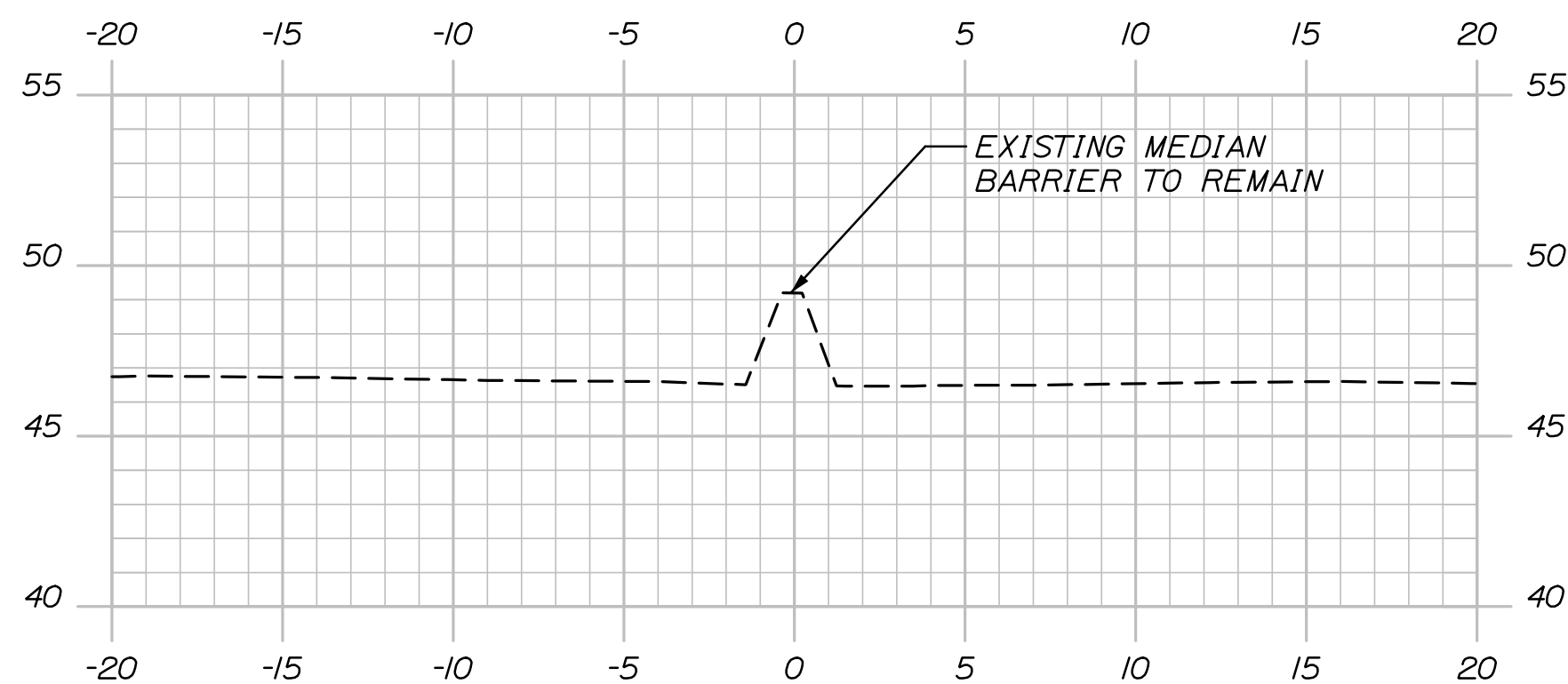
EQUATION BACK STA. 176+97.17 =
EQUATION AHEAD STA 24+00

STA. 176+68.00±
END MEDIAN BARRIER TRANSITION
BEGIN CONCRETE MEDIAN BARRIER

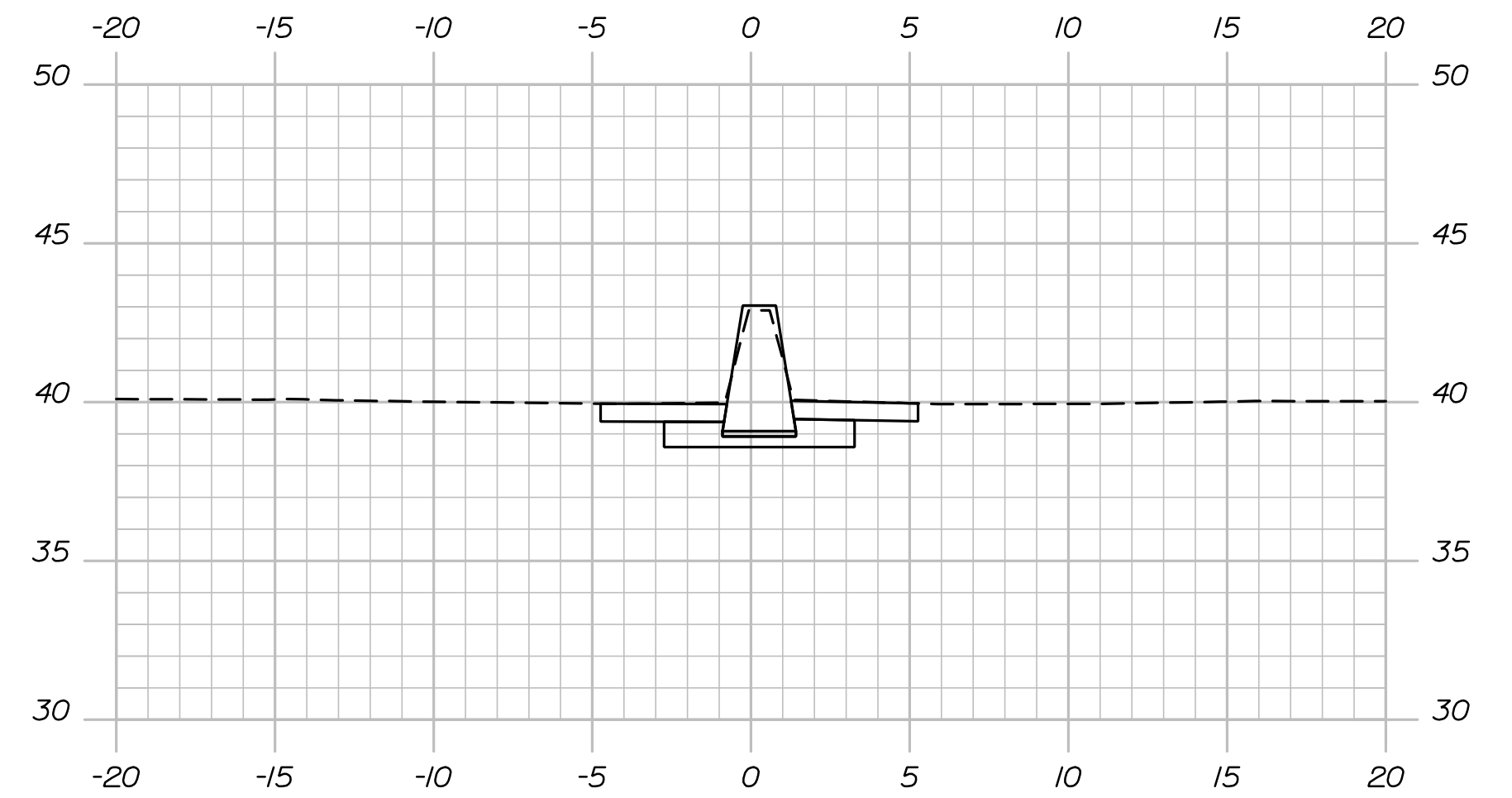
STA. 176+58.00±
MATCH EXISTING MEDIAN BARRIER
BEGIN MEDIAN BARRIER TRANSITION
MODIFY EXISTING MEDIAN BARRIER



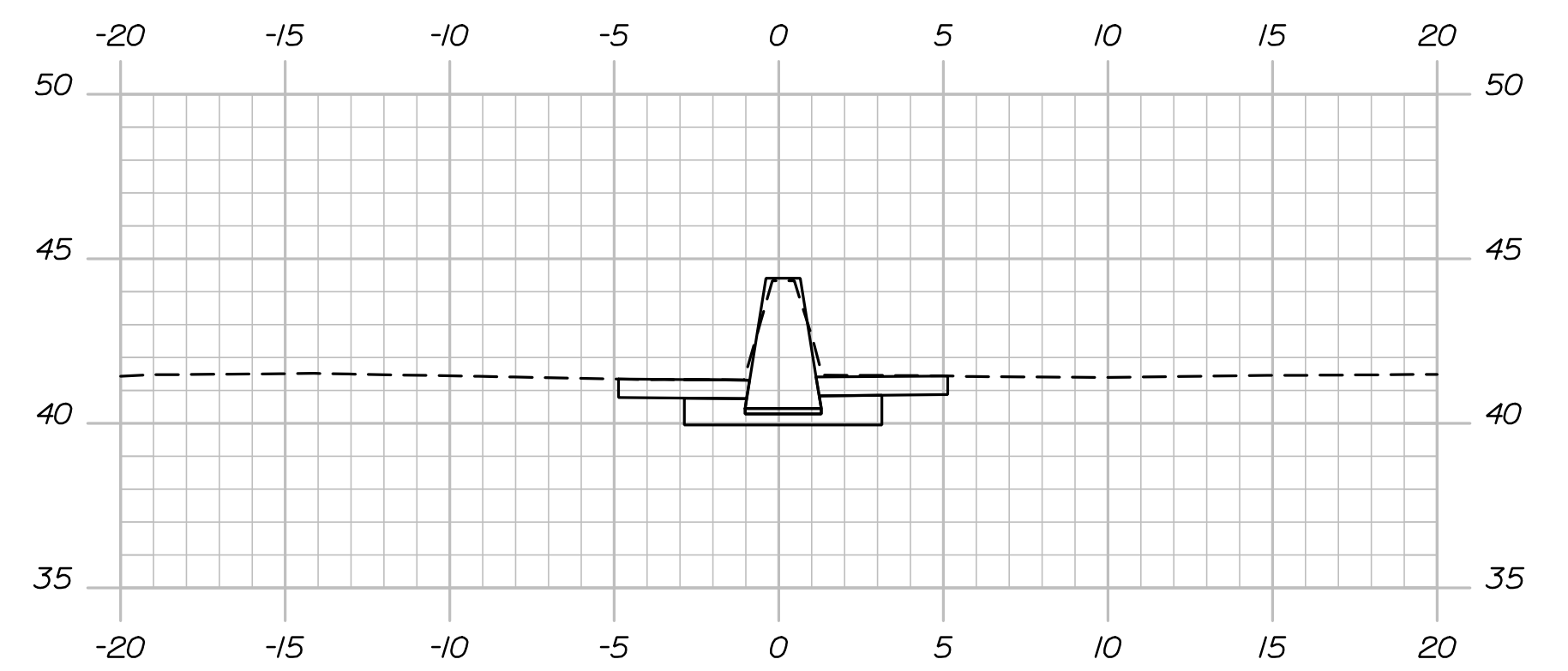
176+50.00



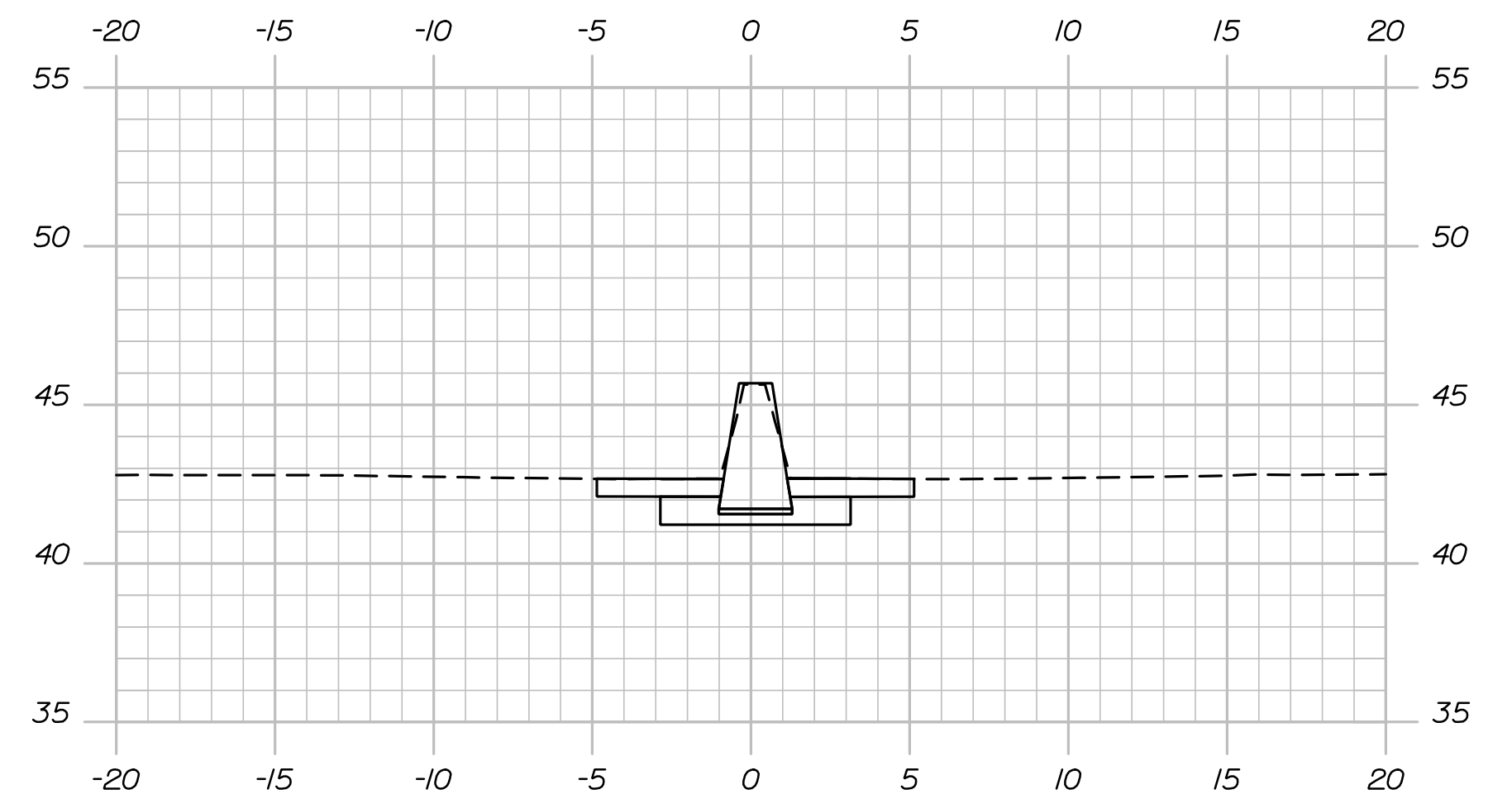
176+00.00



26+00.00



25+50.00



25+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FEDERAL PROJECT 2239400
WIN
22394.00
HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER

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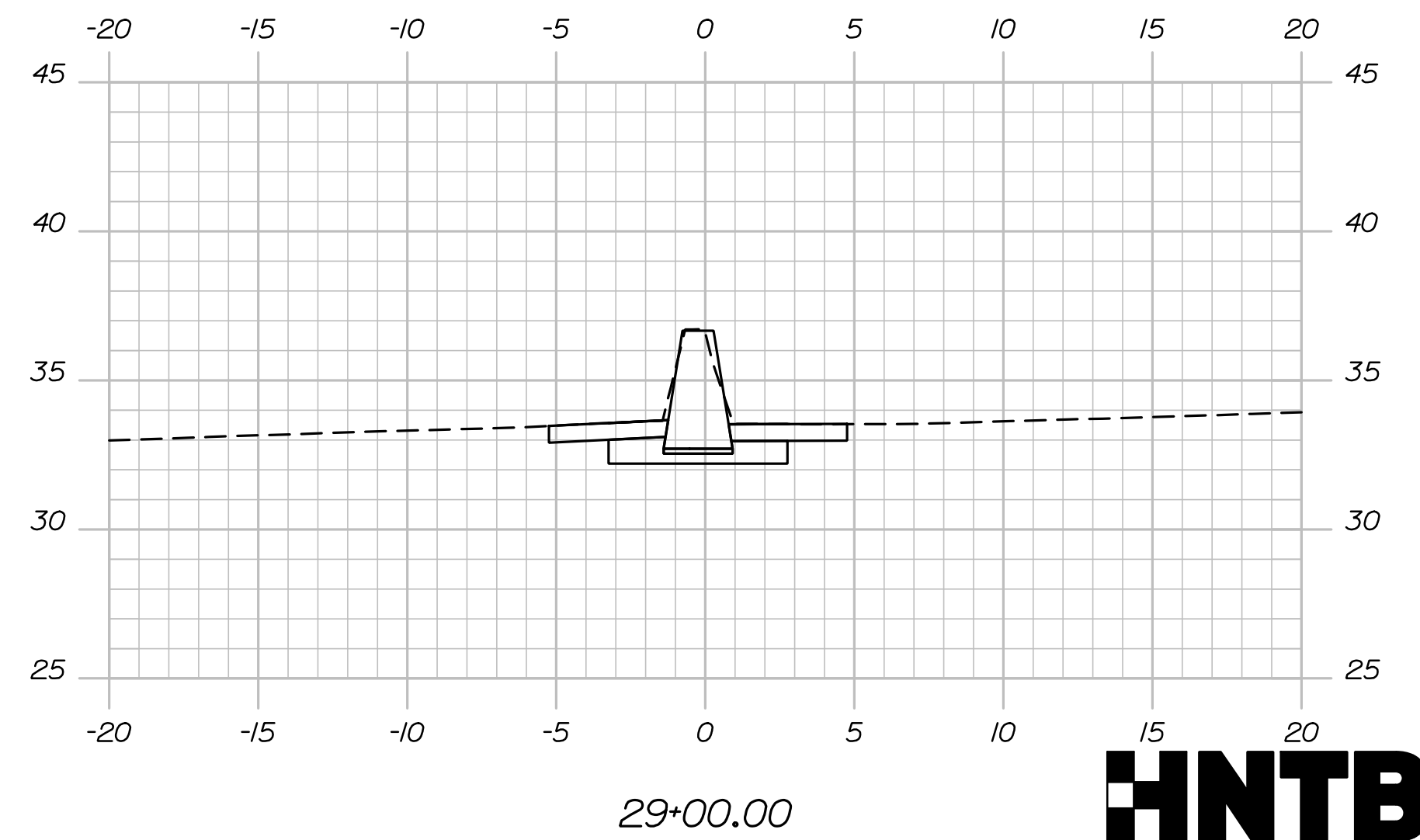
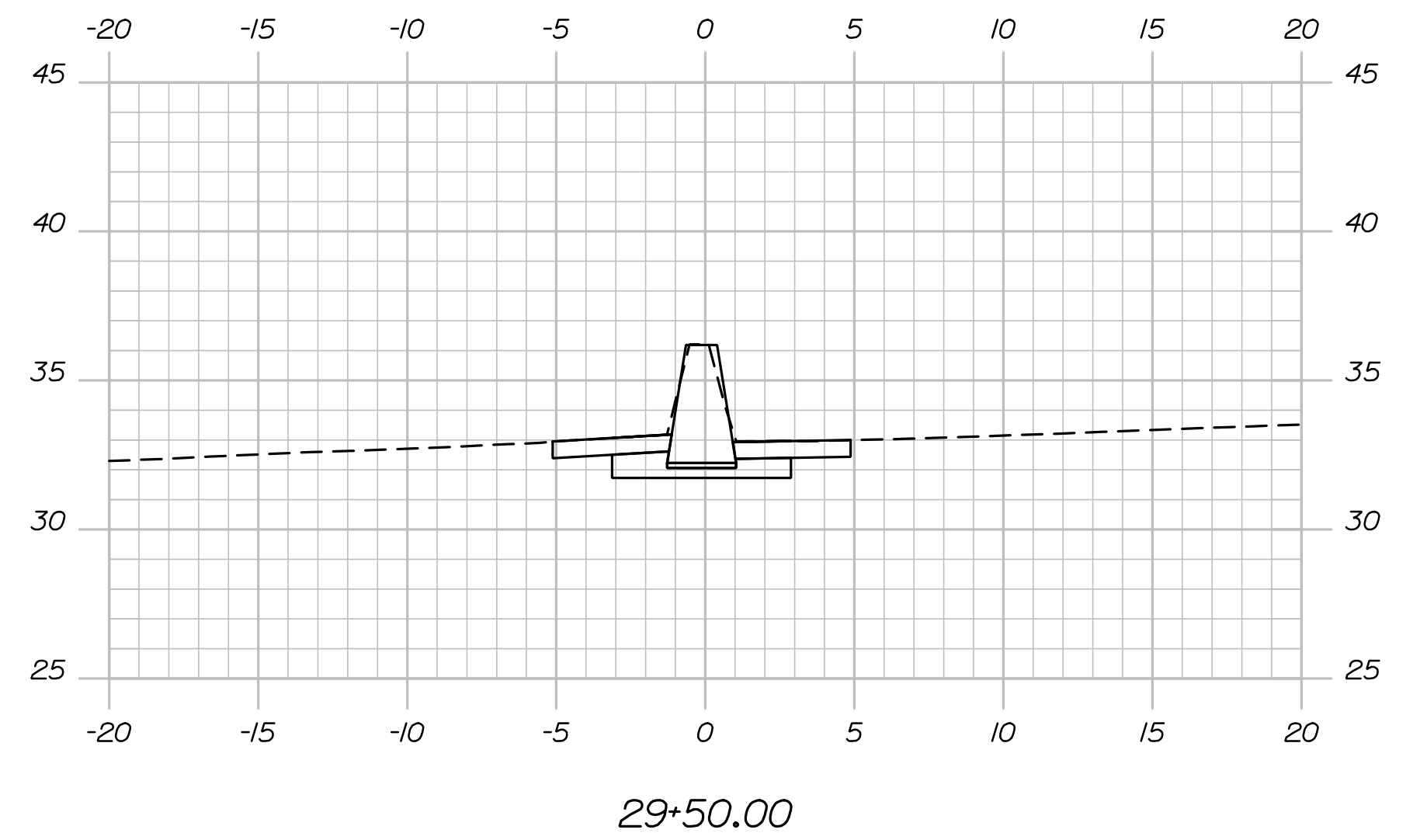
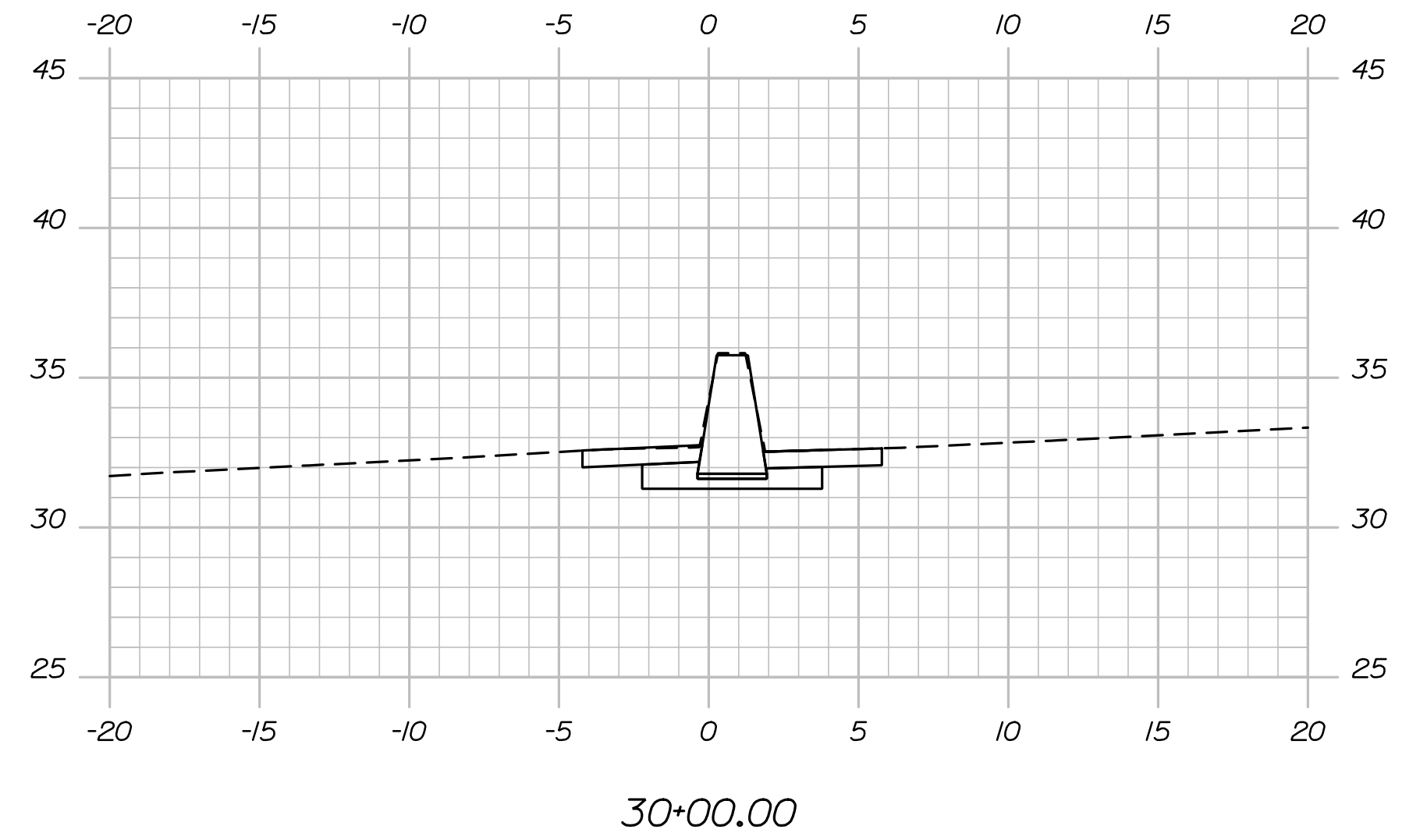
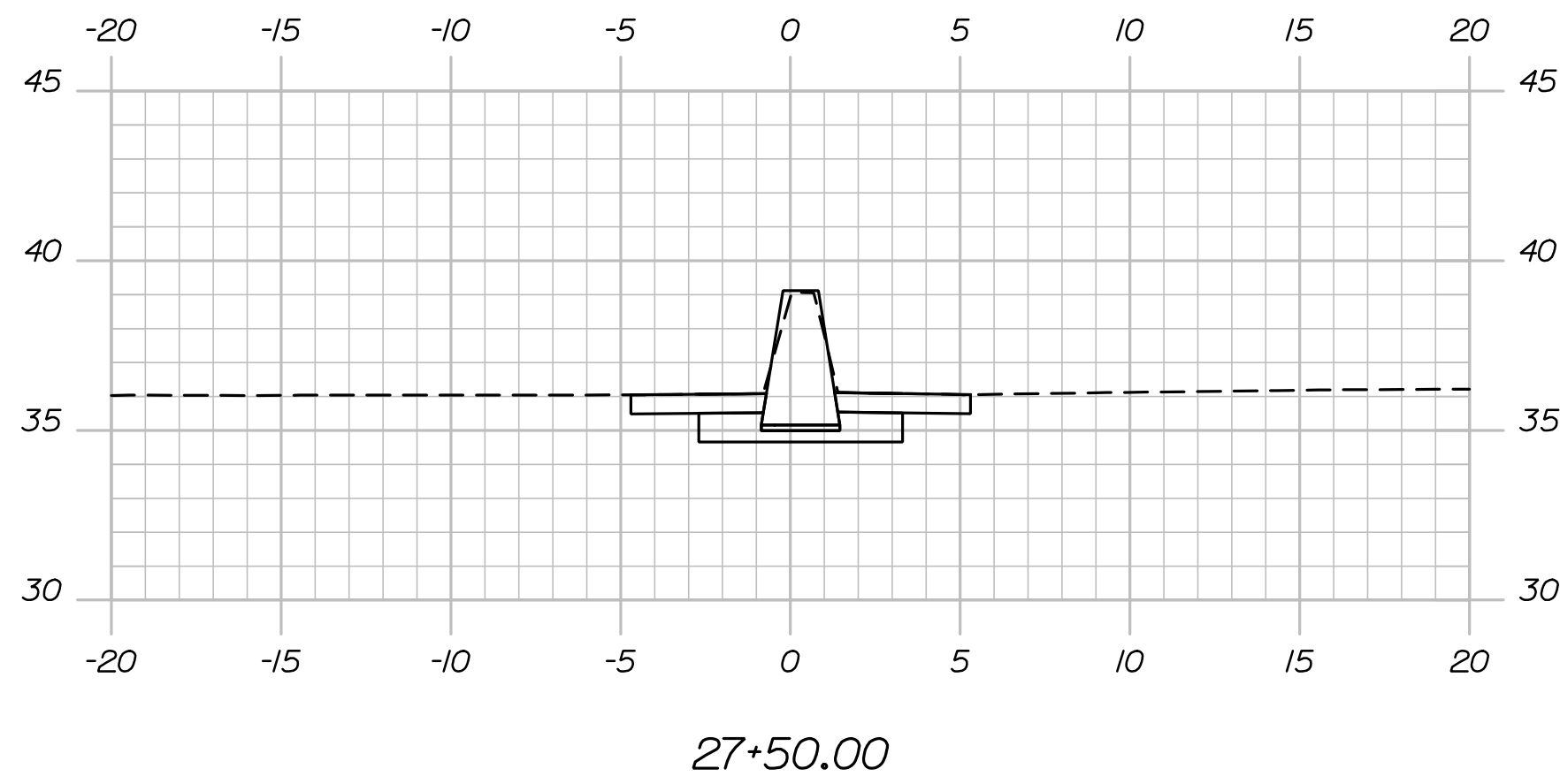
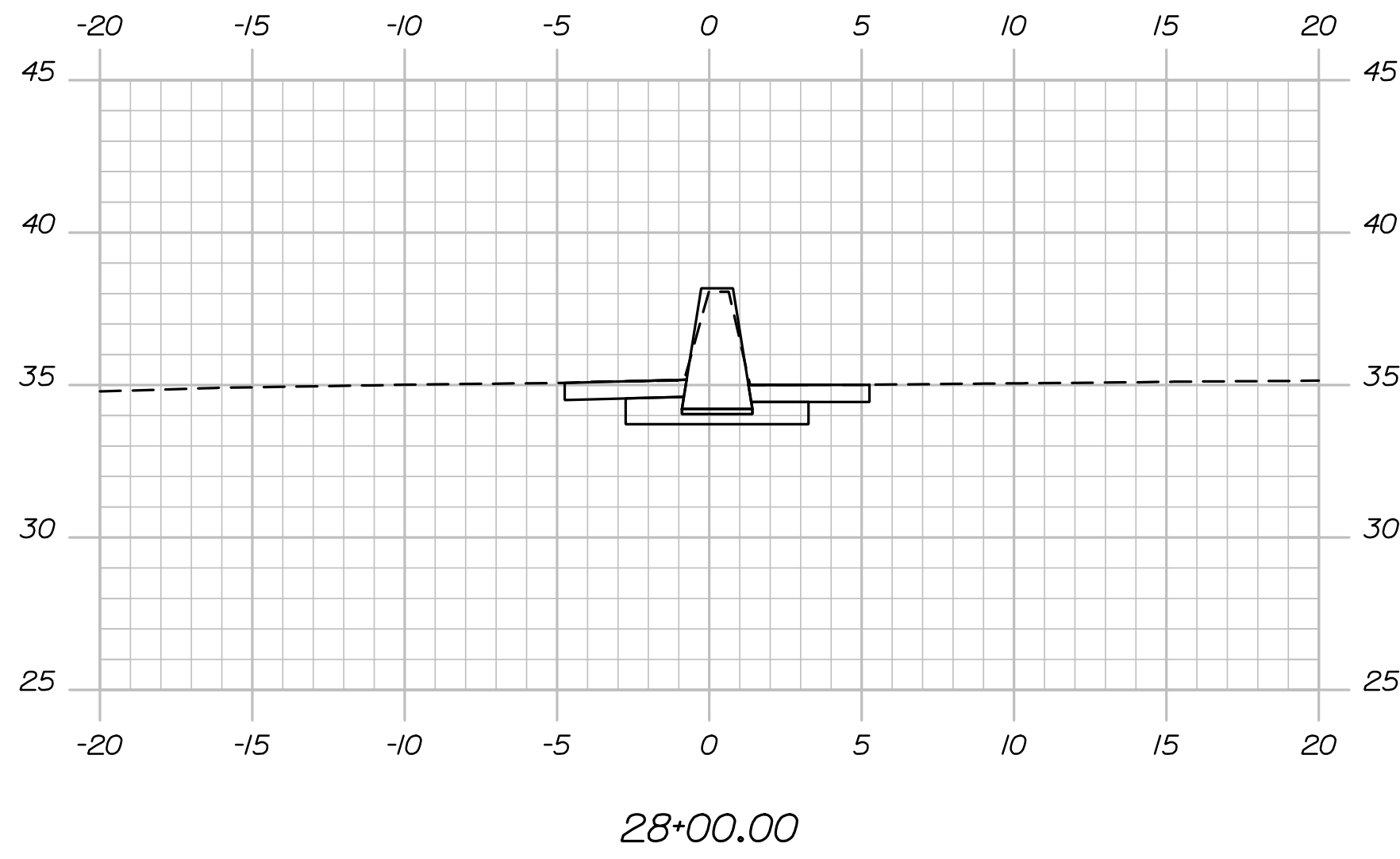
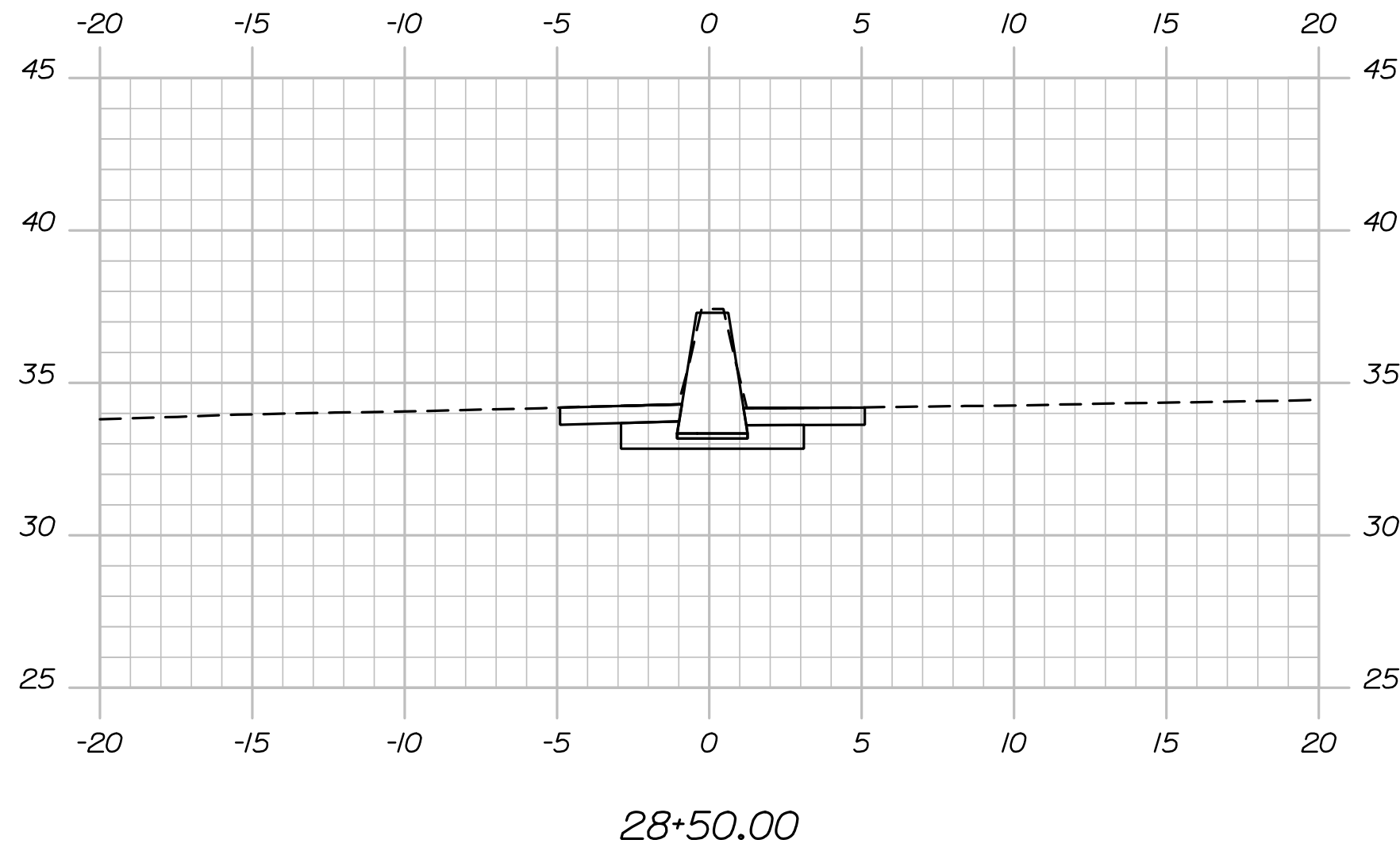
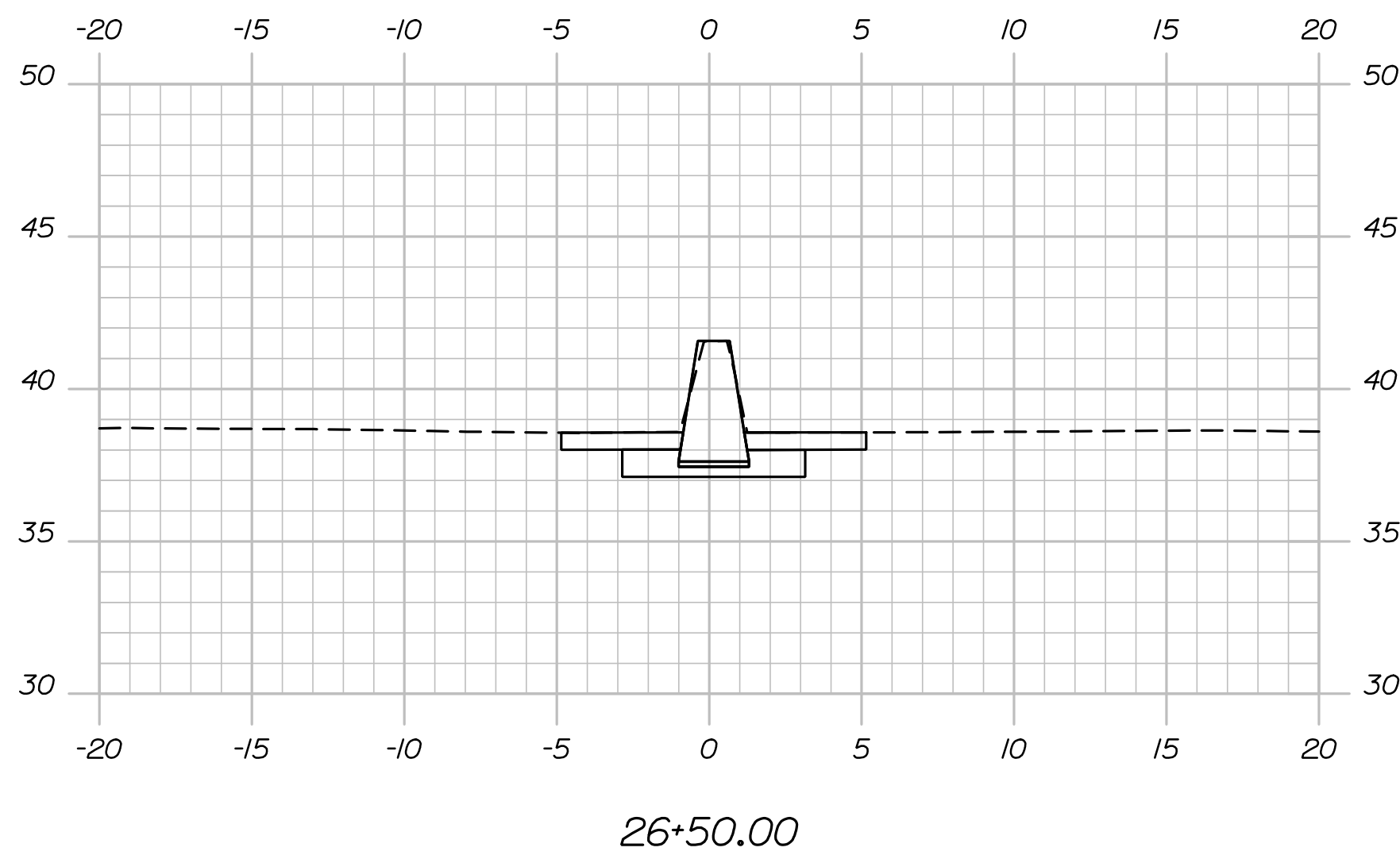
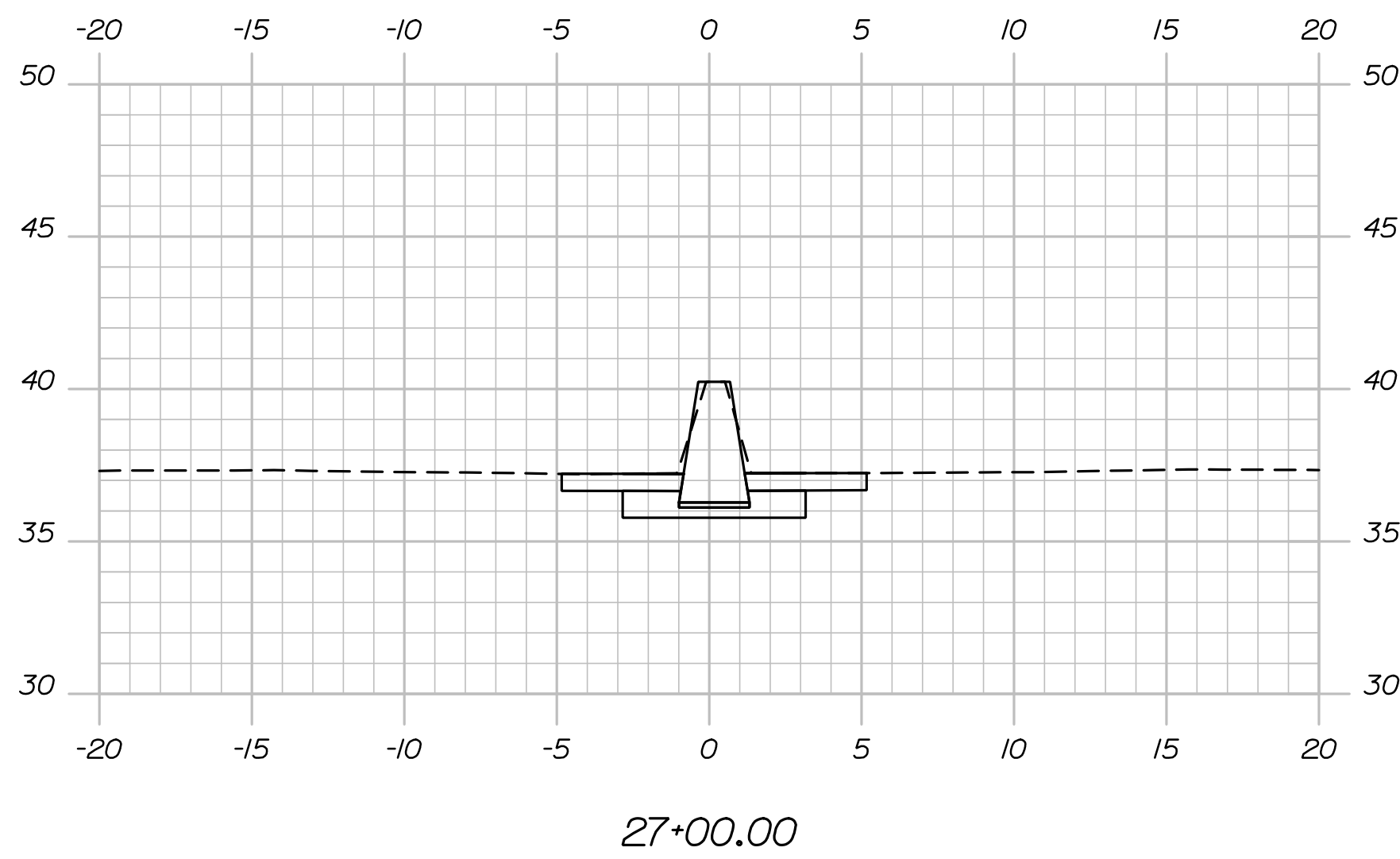
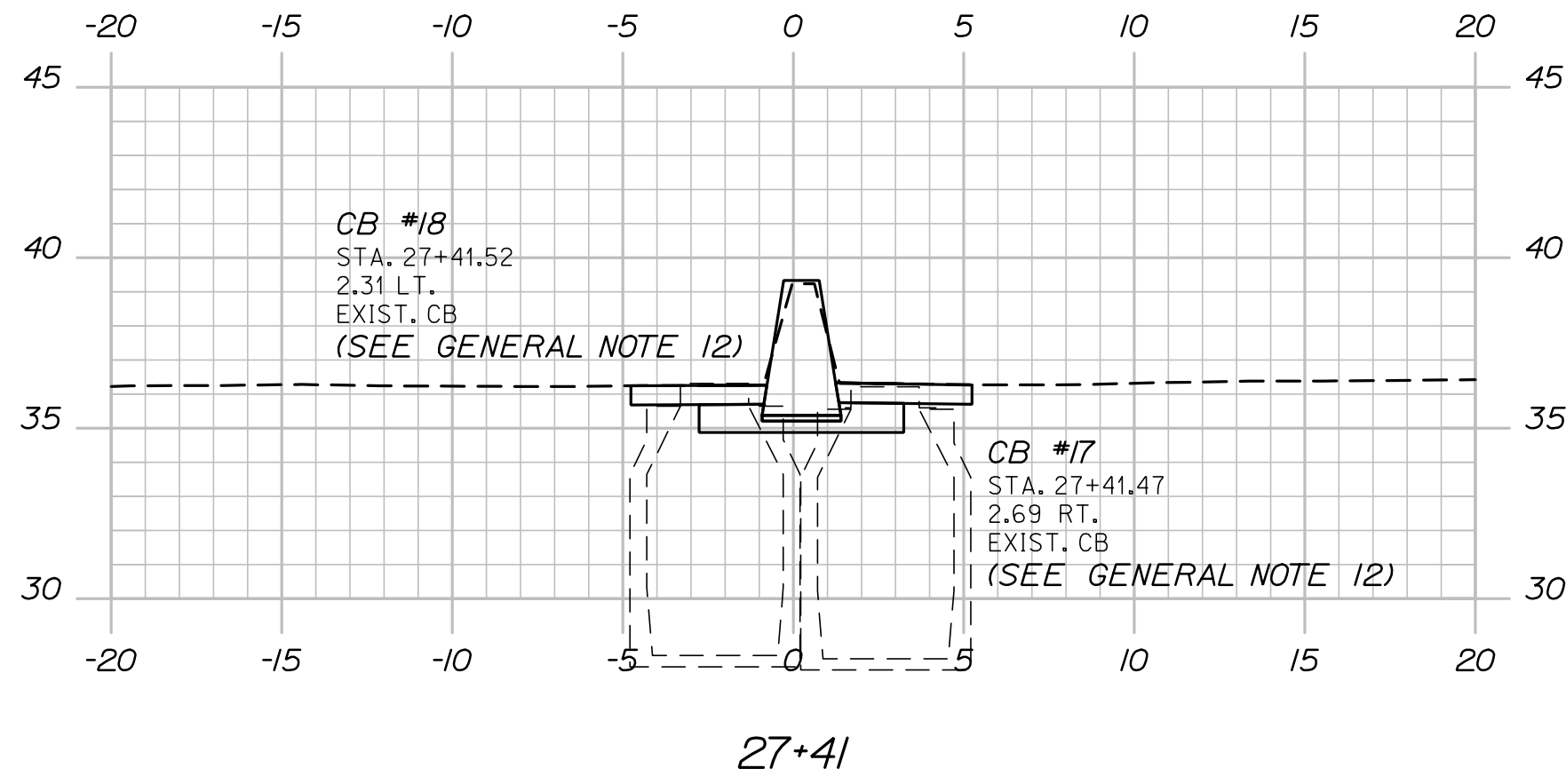


Date: 12/15/2021

Username:

Division:

Filename: Xsect.dgn



PROJ. MGR.	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE	P.E. NUMBER	DATE

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER

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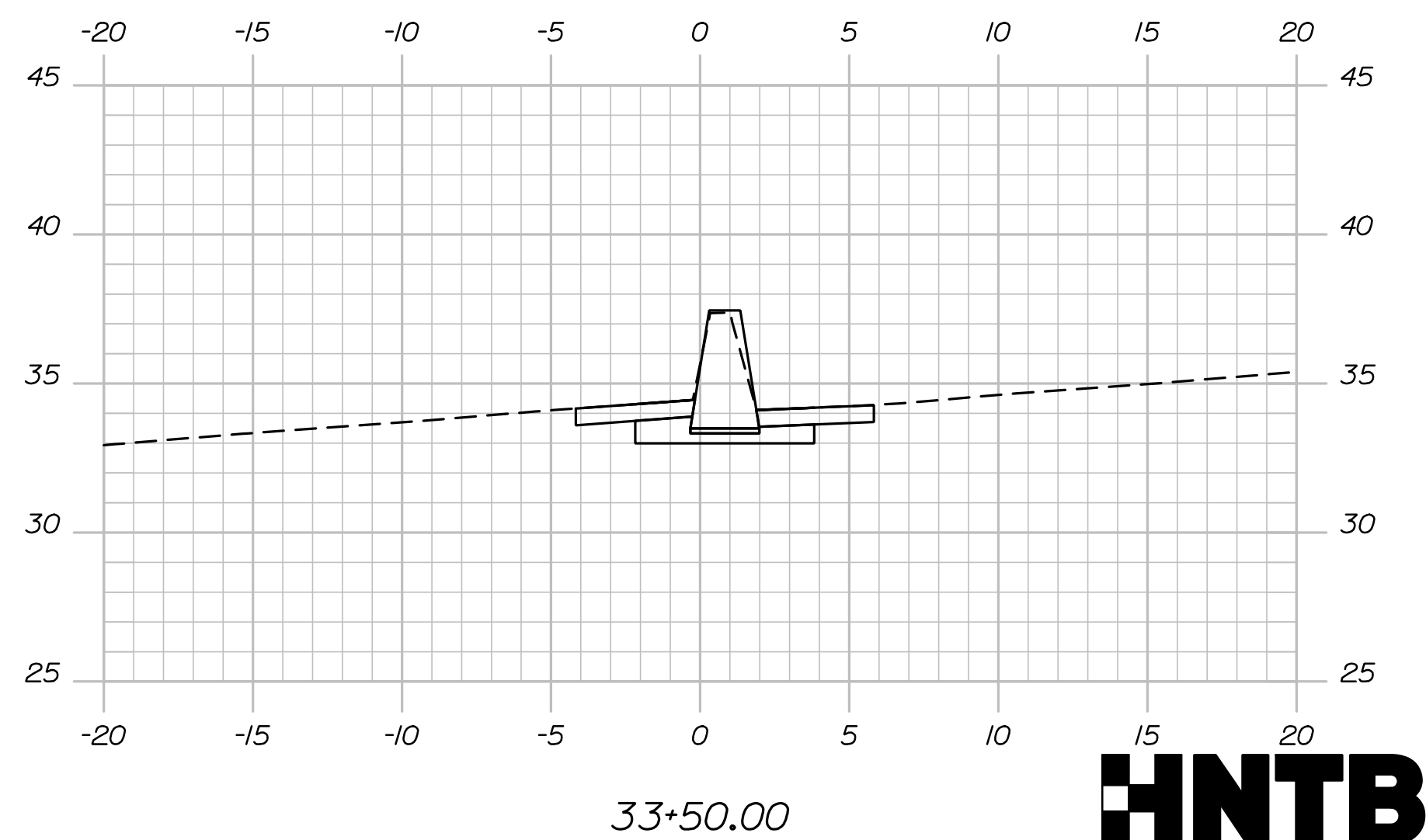
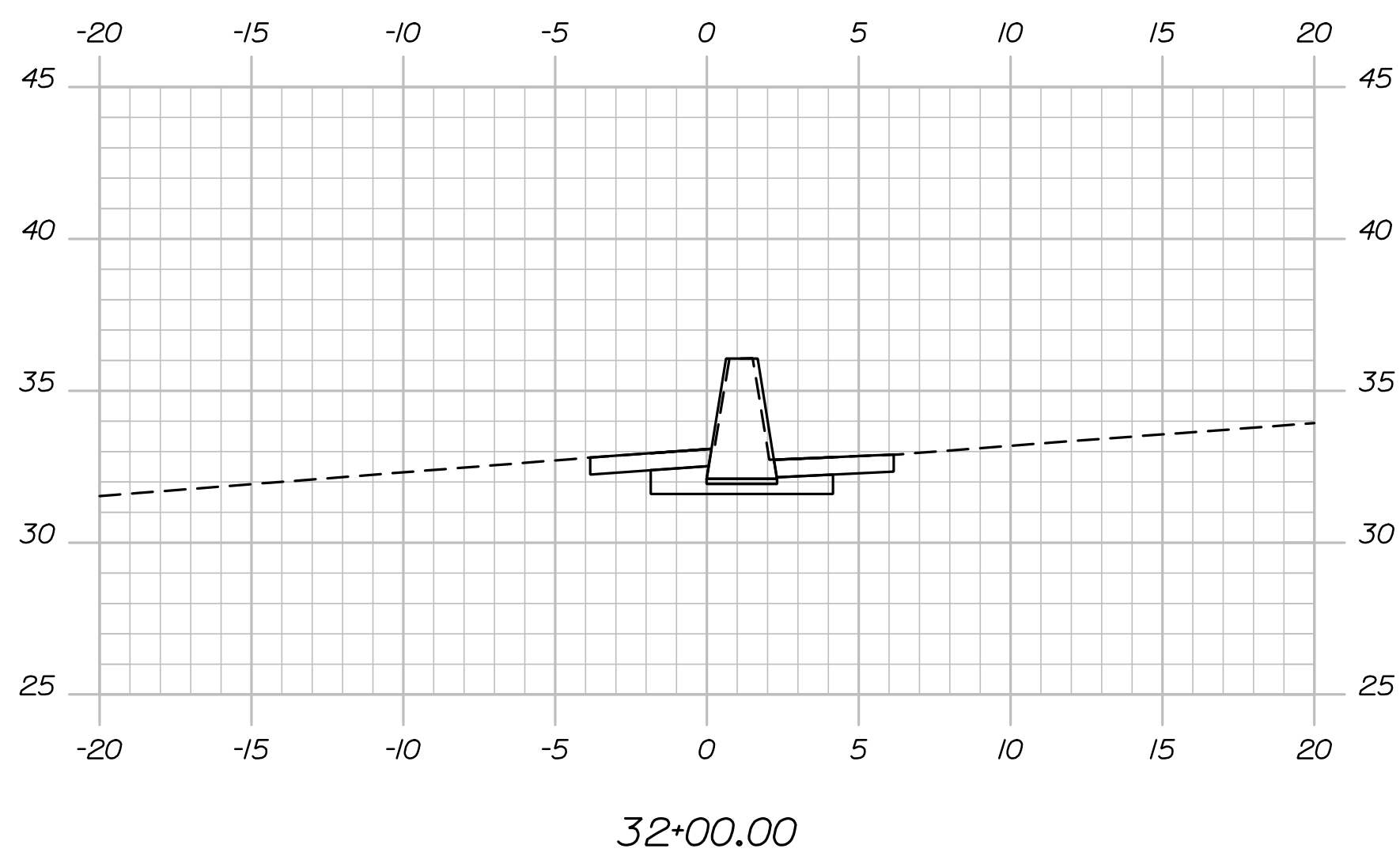
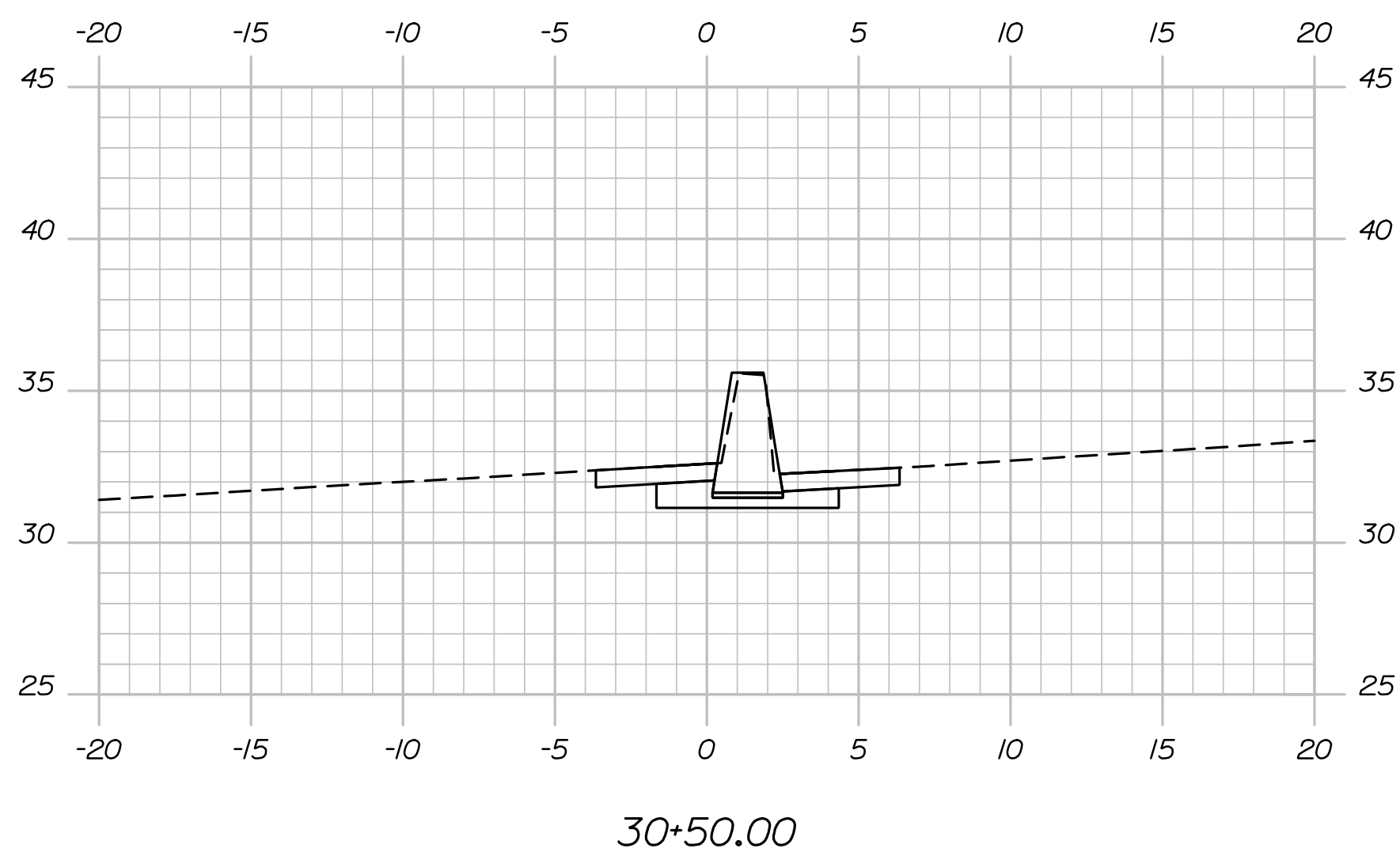
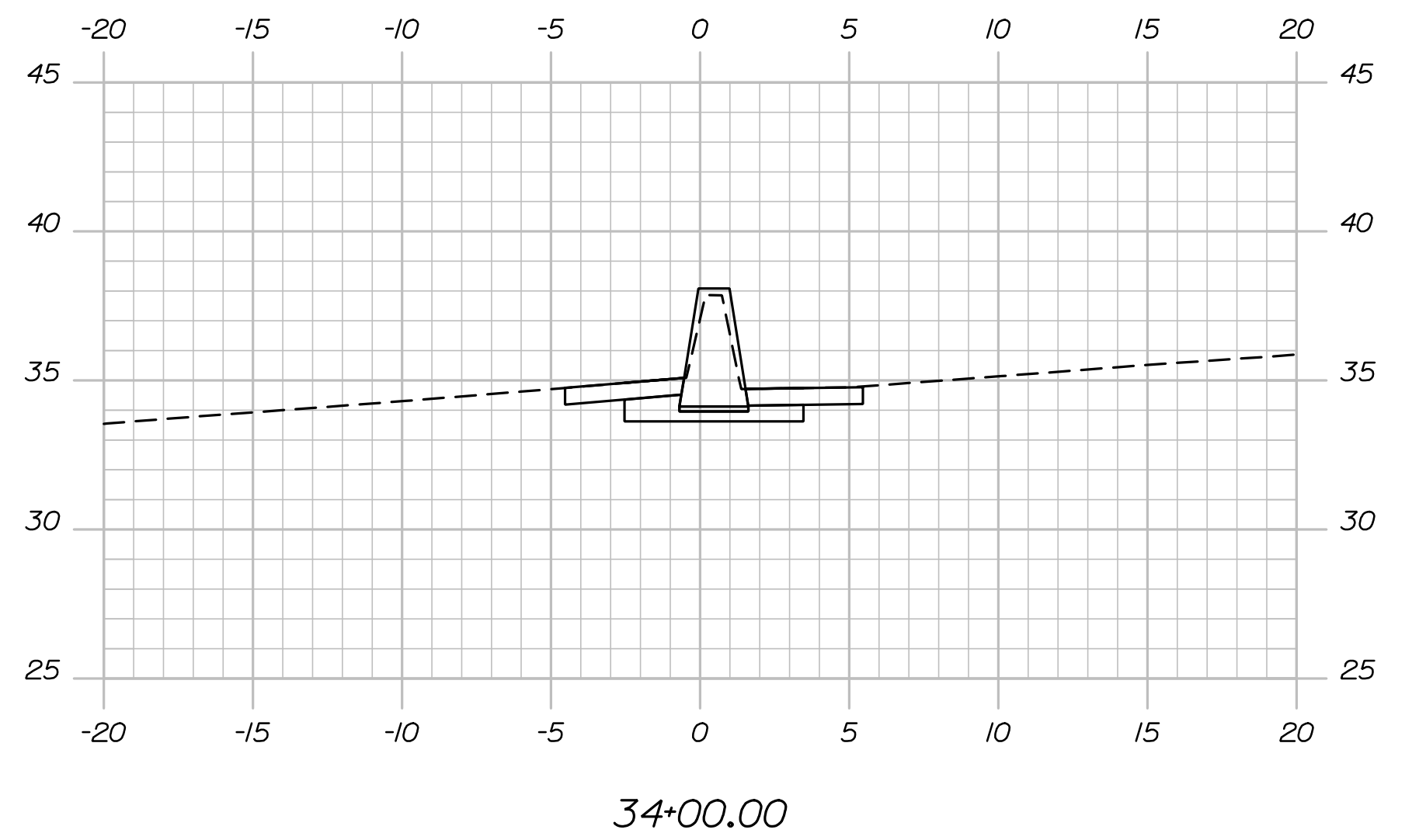
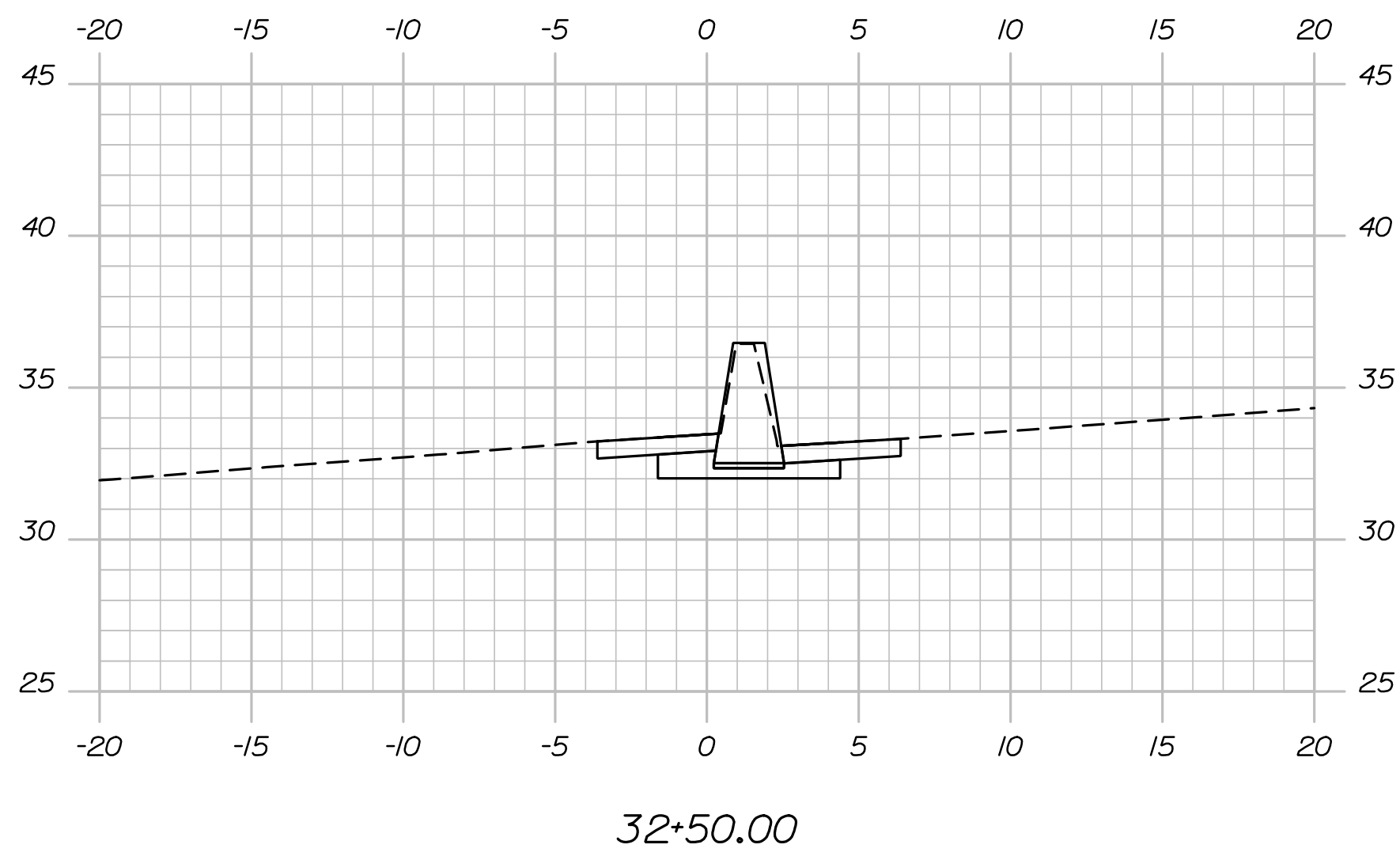
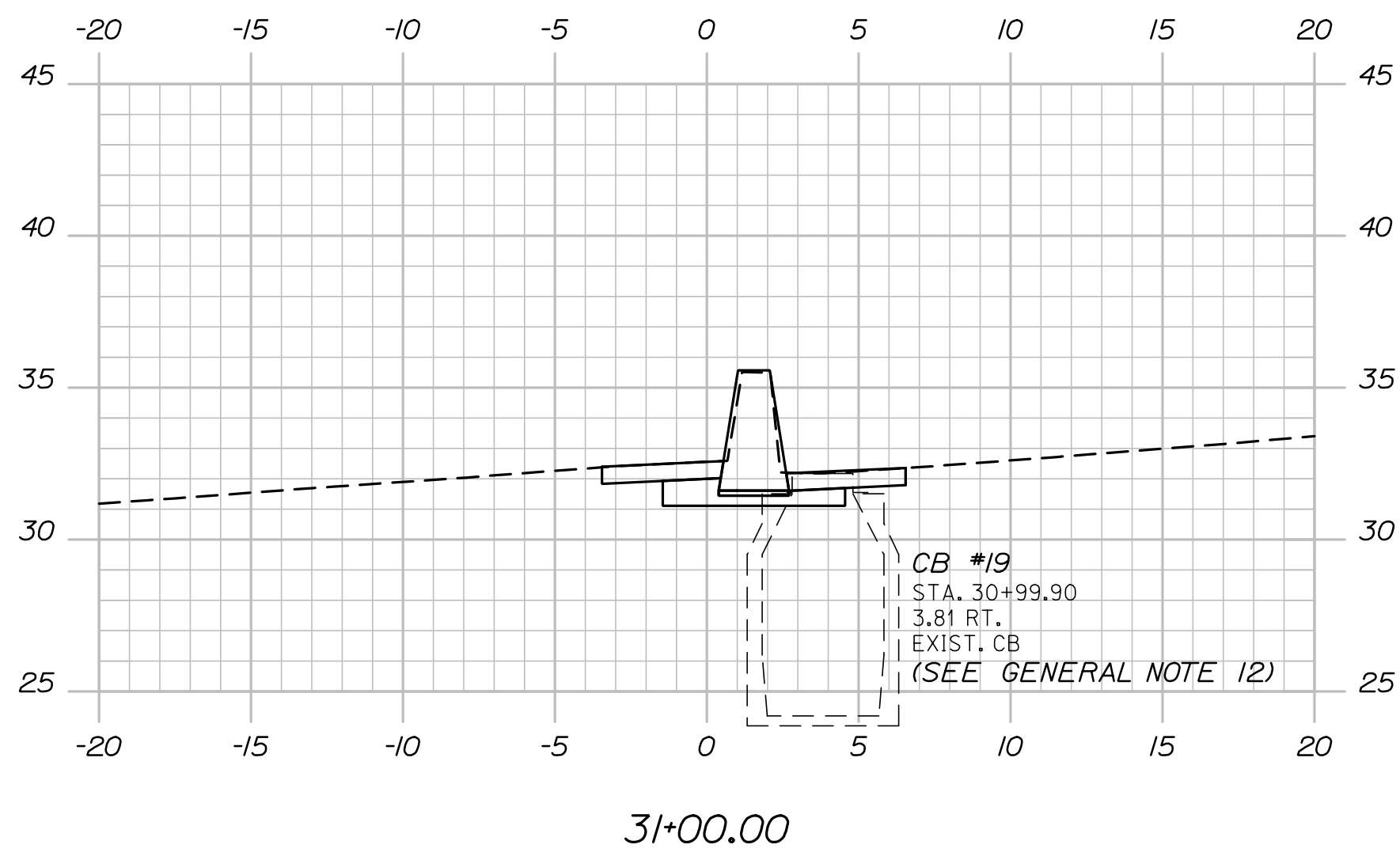
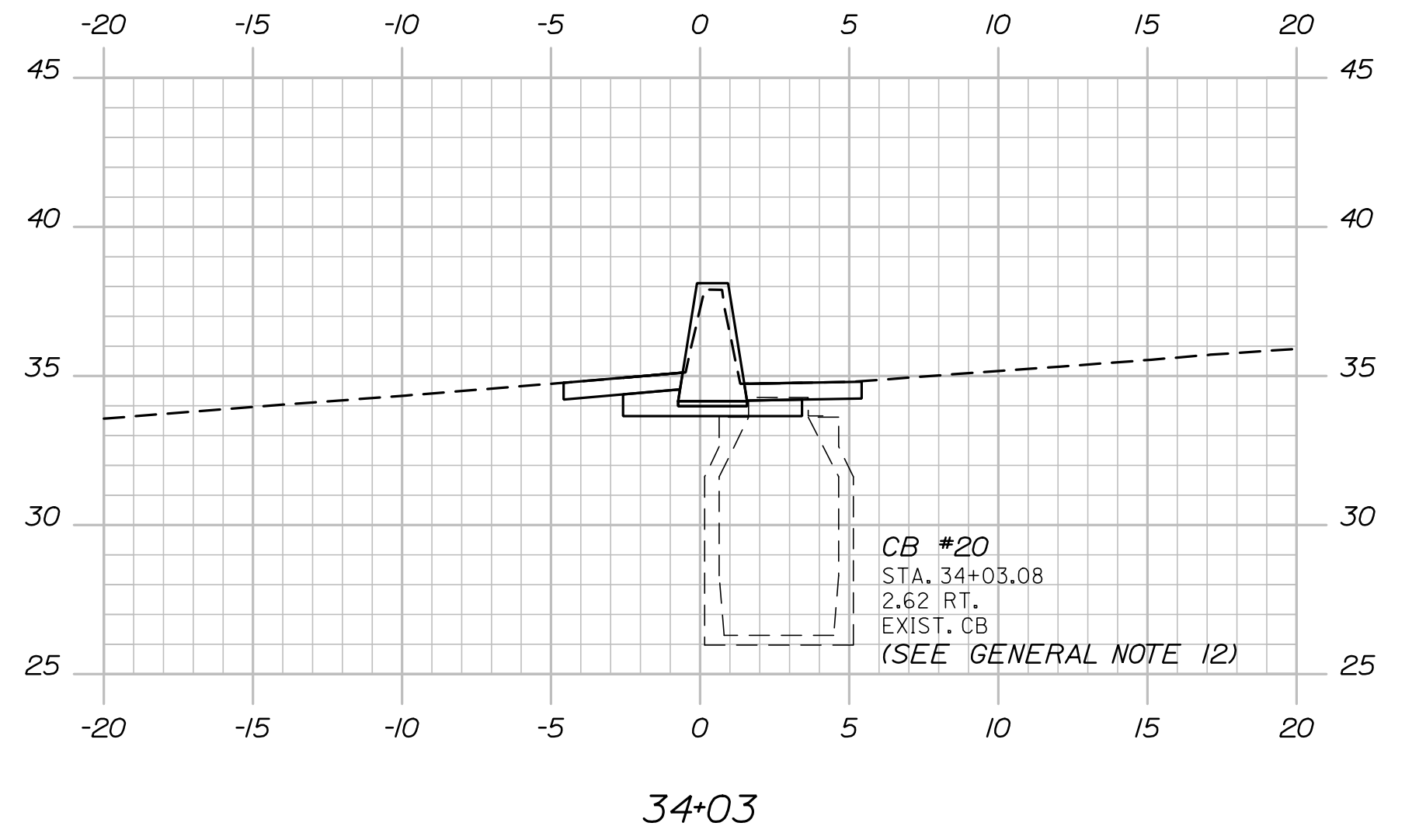
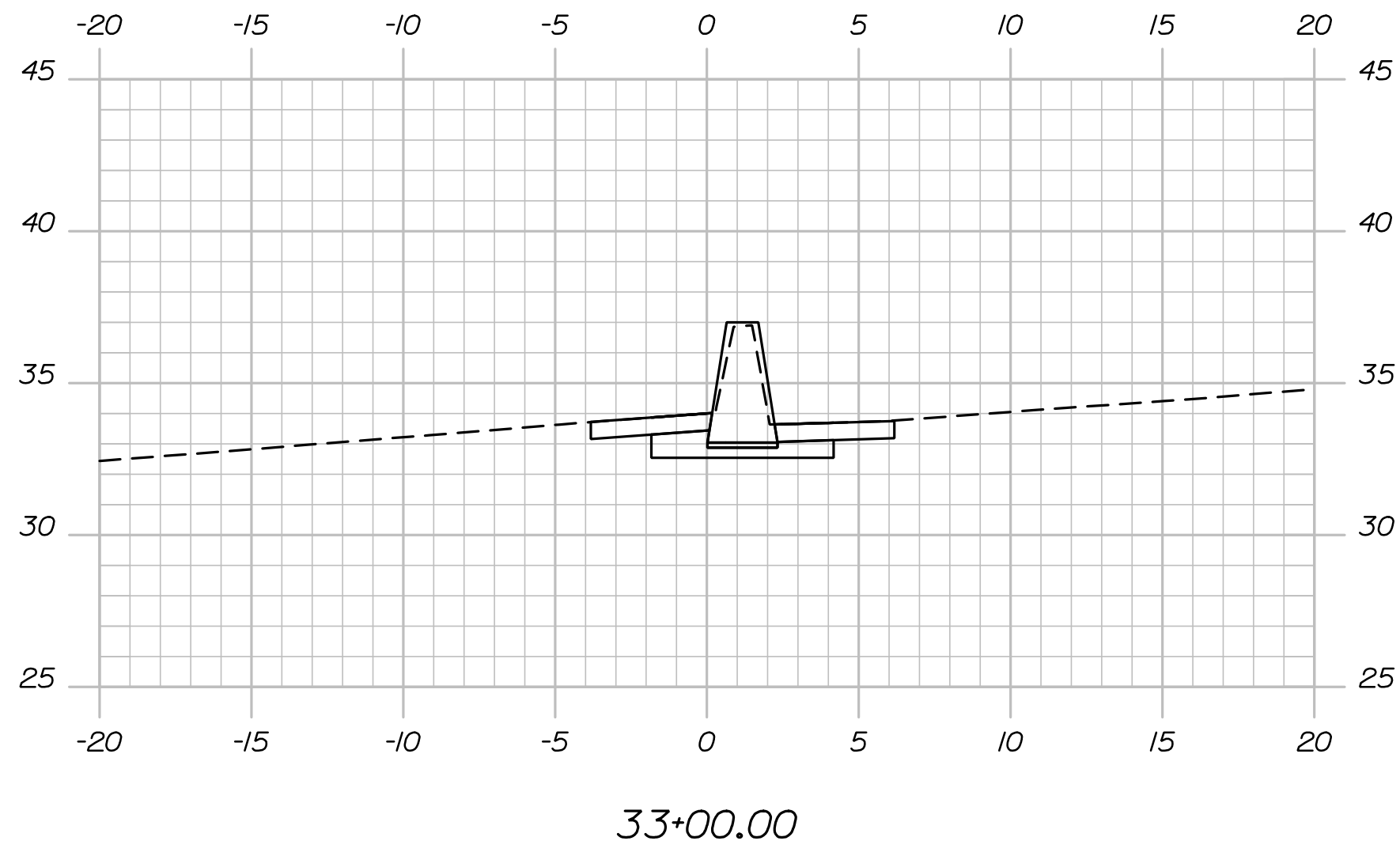
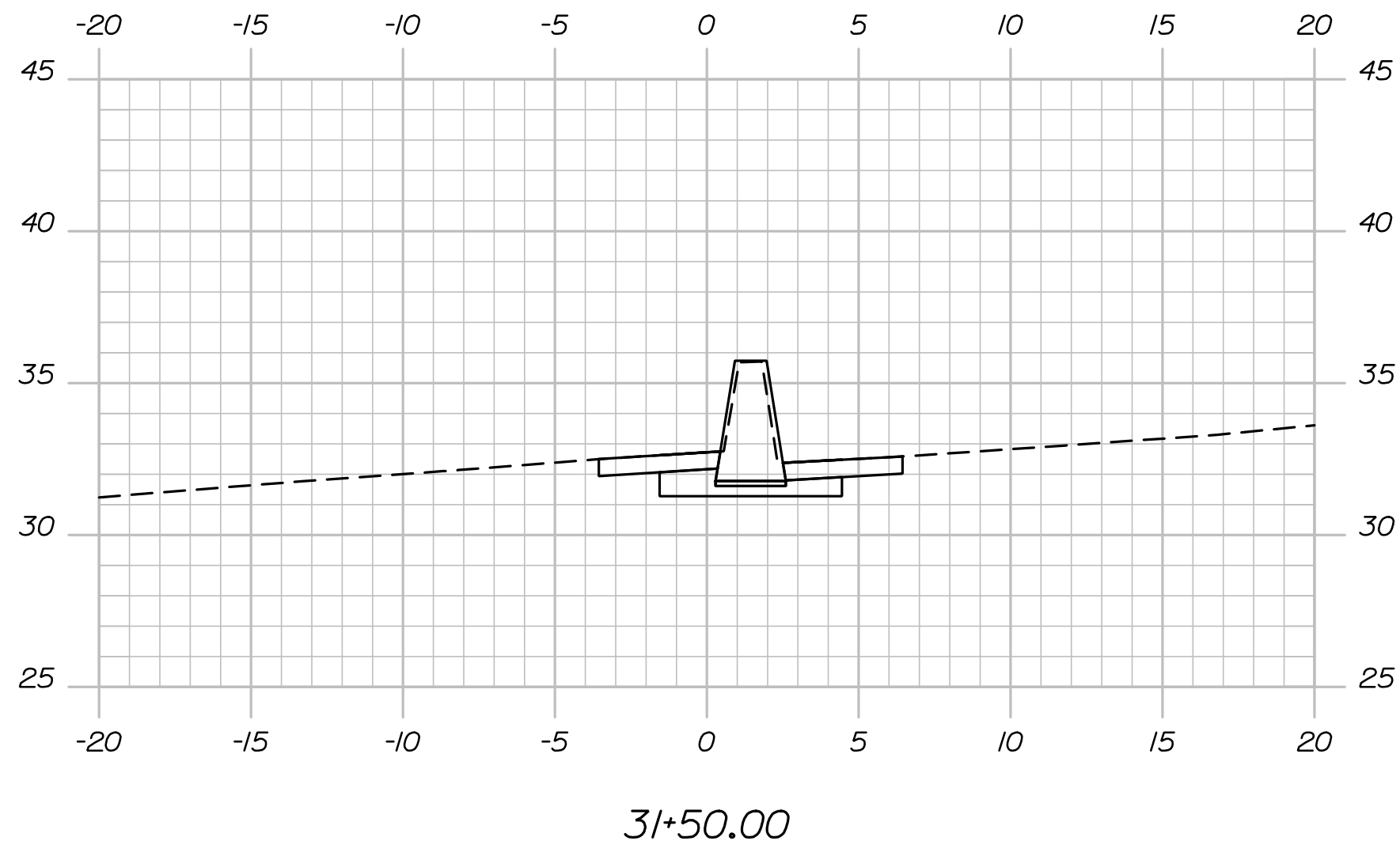


Date: 12/15/2021

Username:

Division:

Filename: Xsect.dgn



PROJ. MGR.	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER

15

OF 24

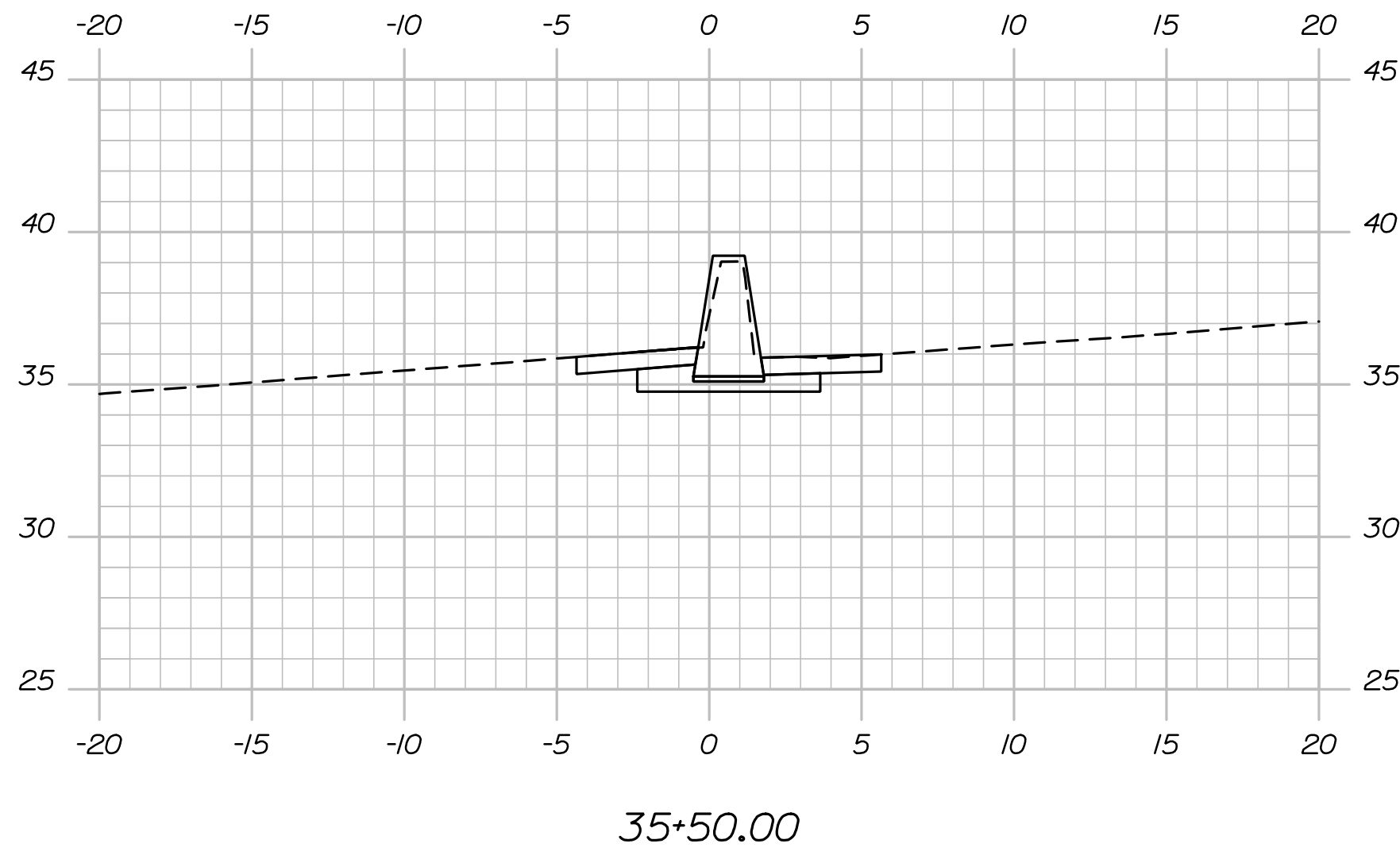


Date: 12/15/2021

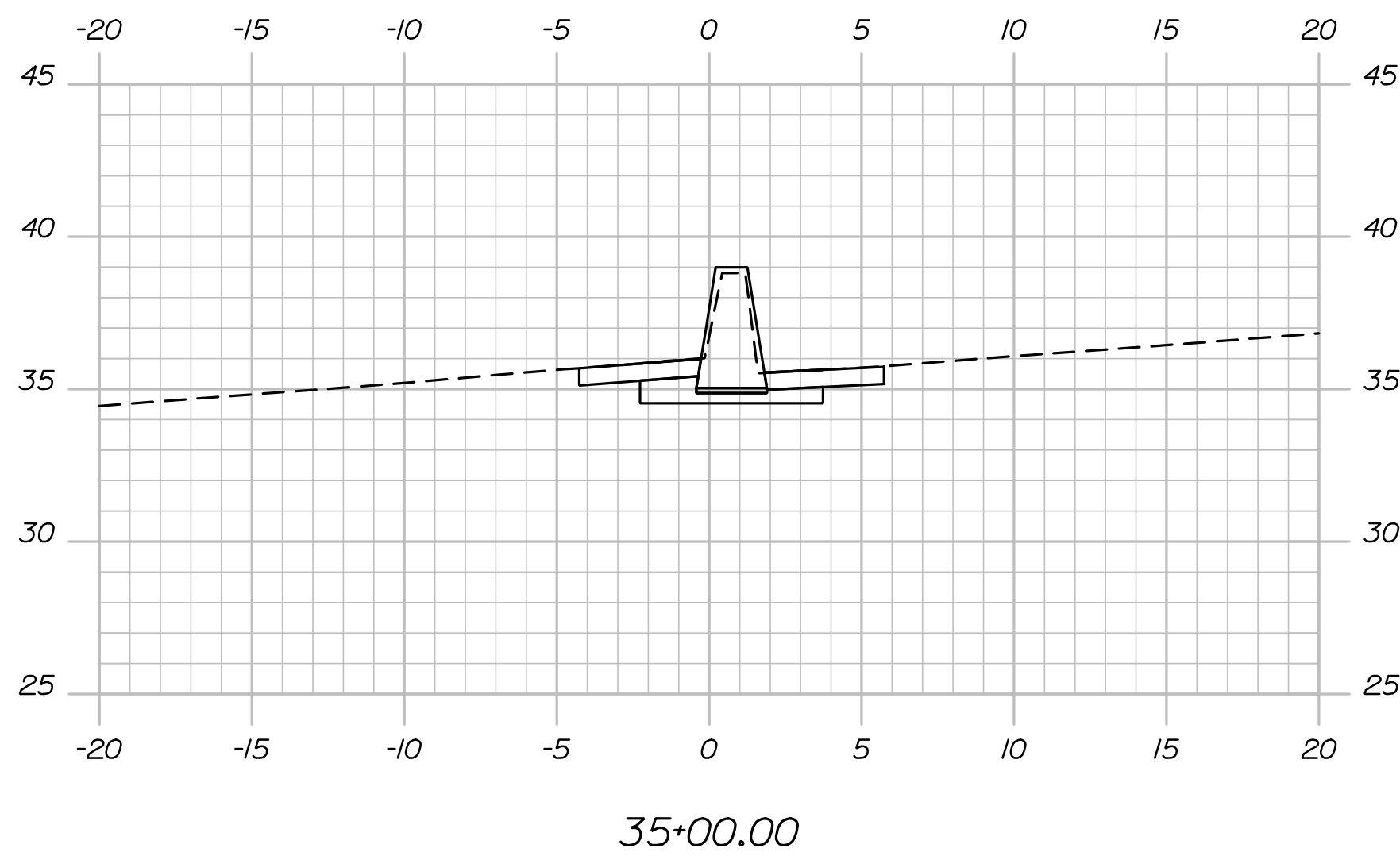
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Division:

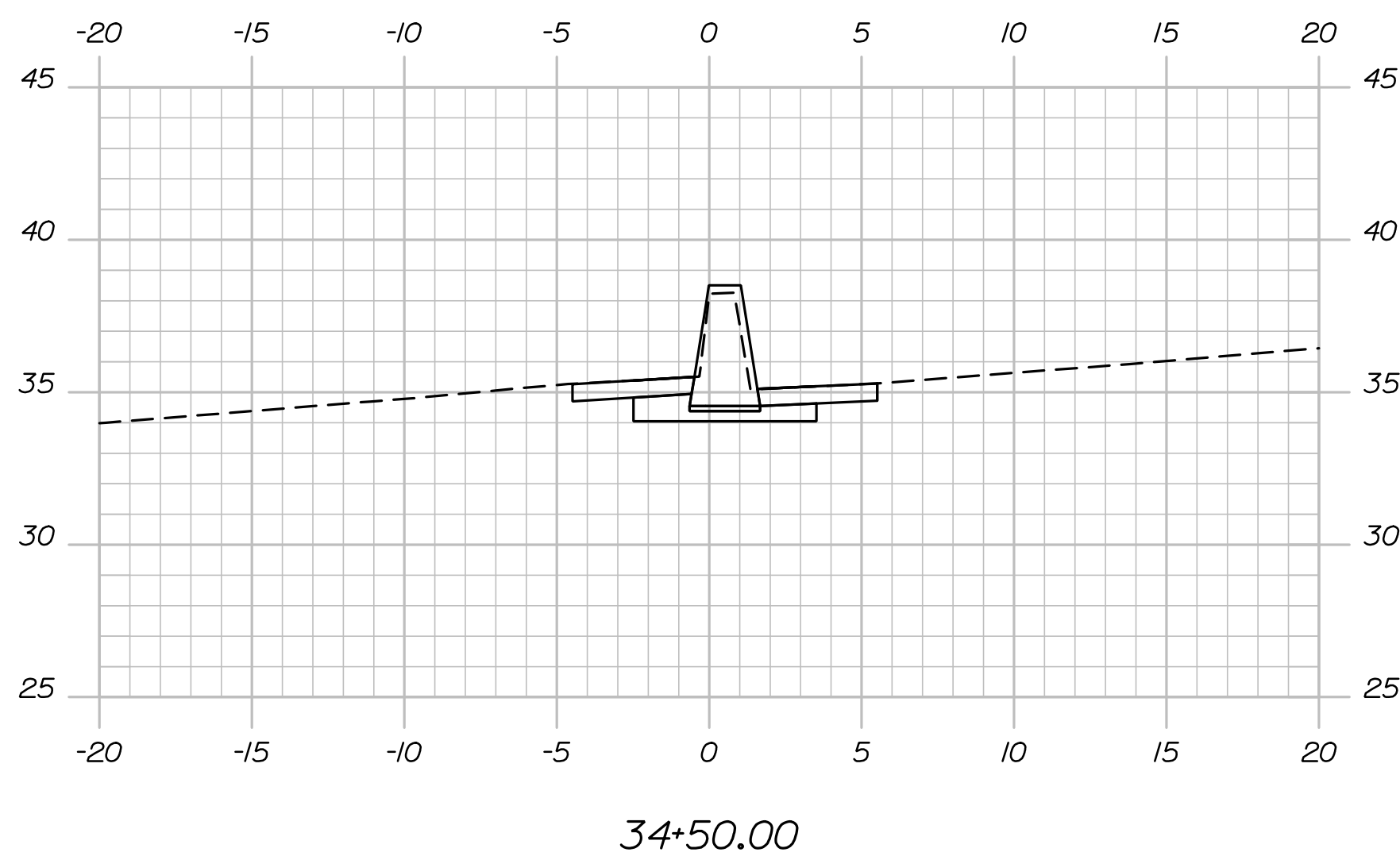
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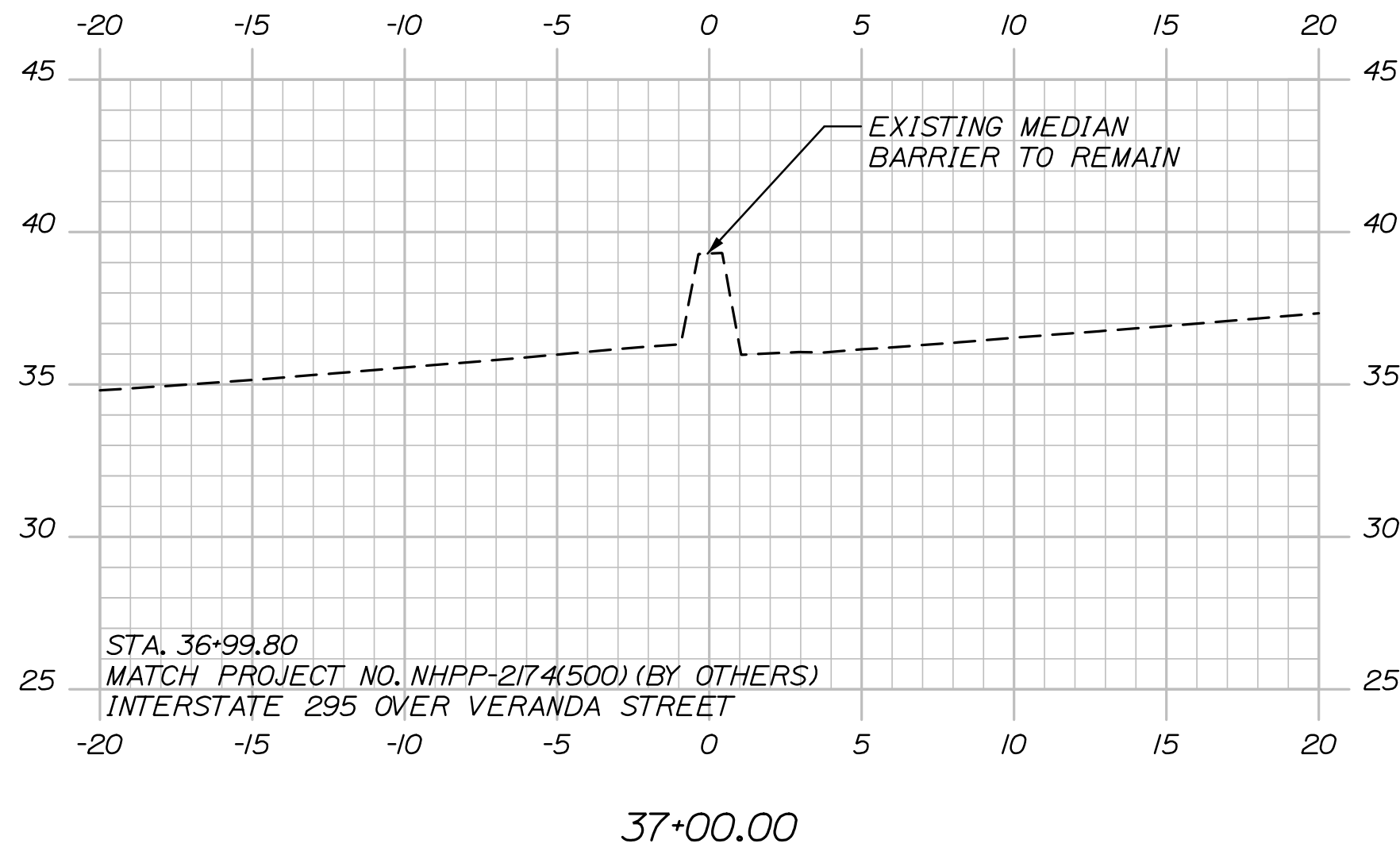
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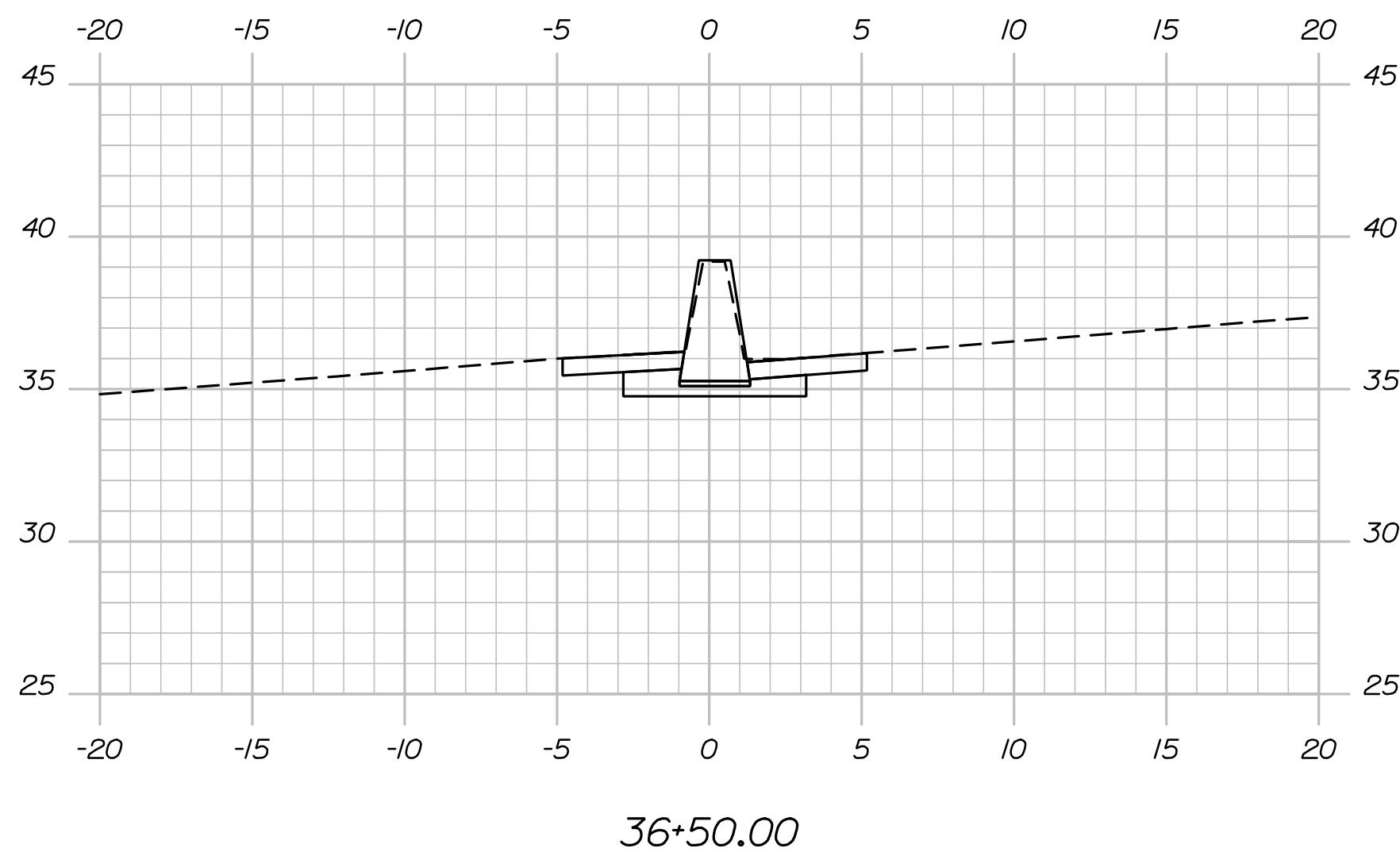
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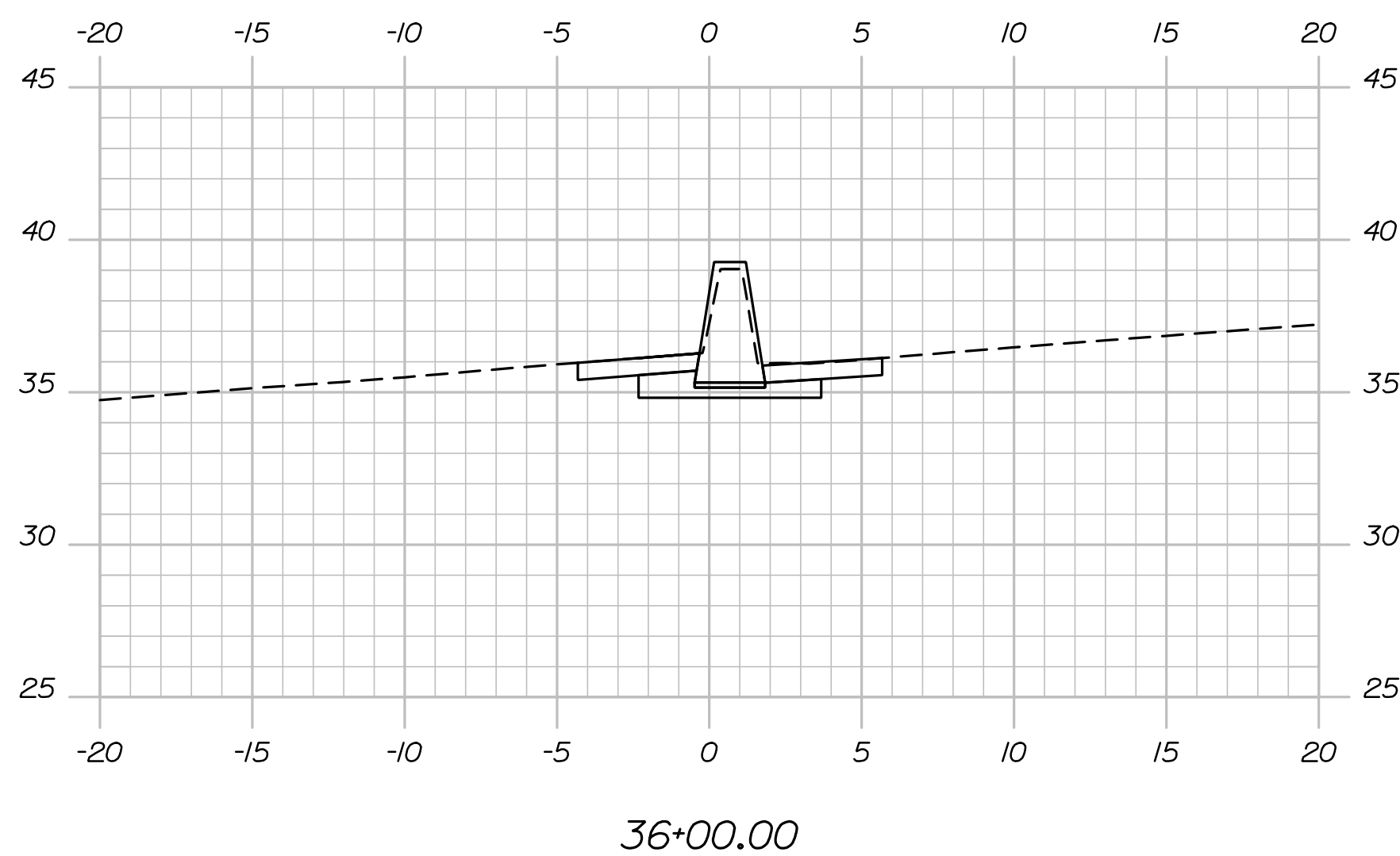
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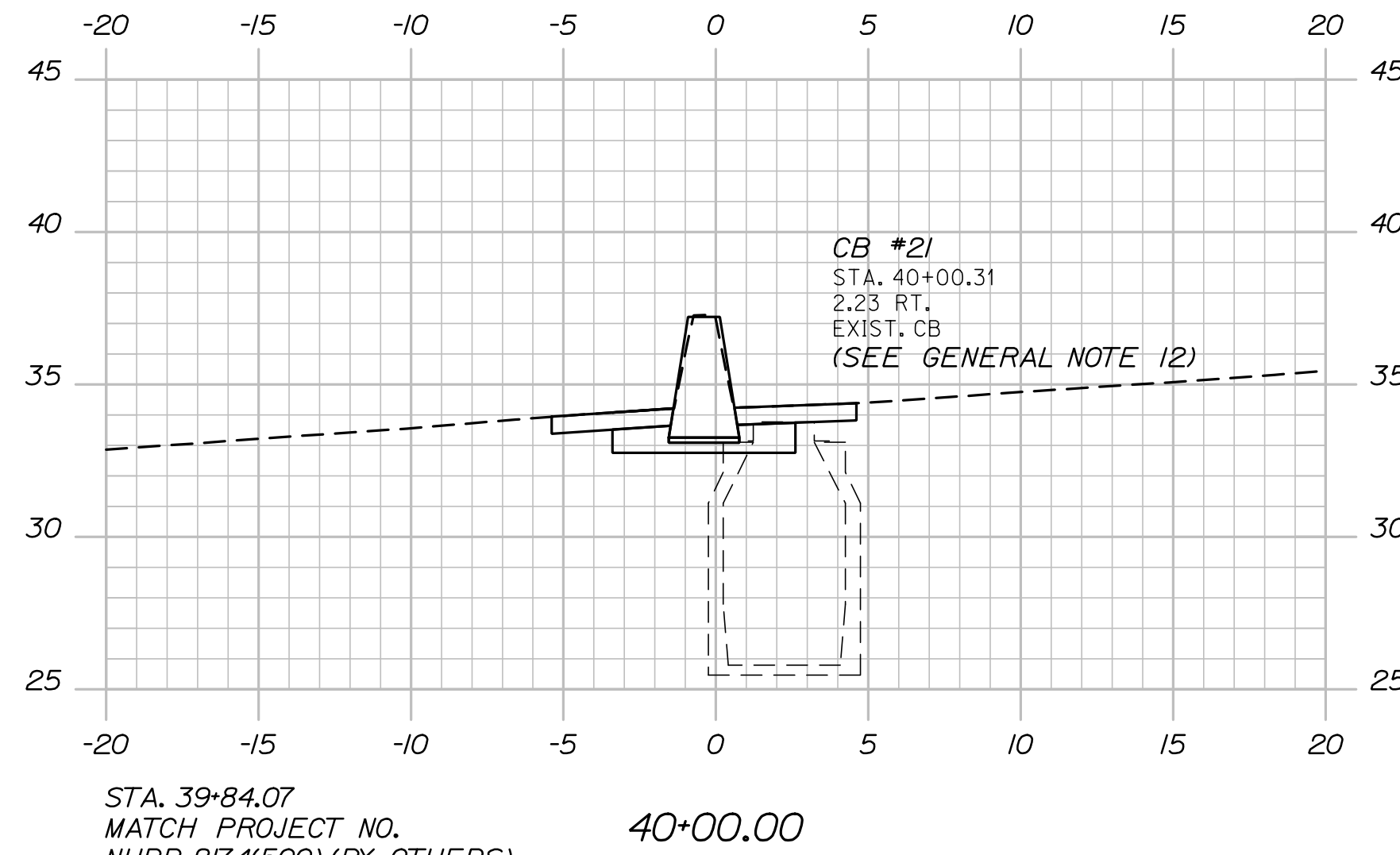
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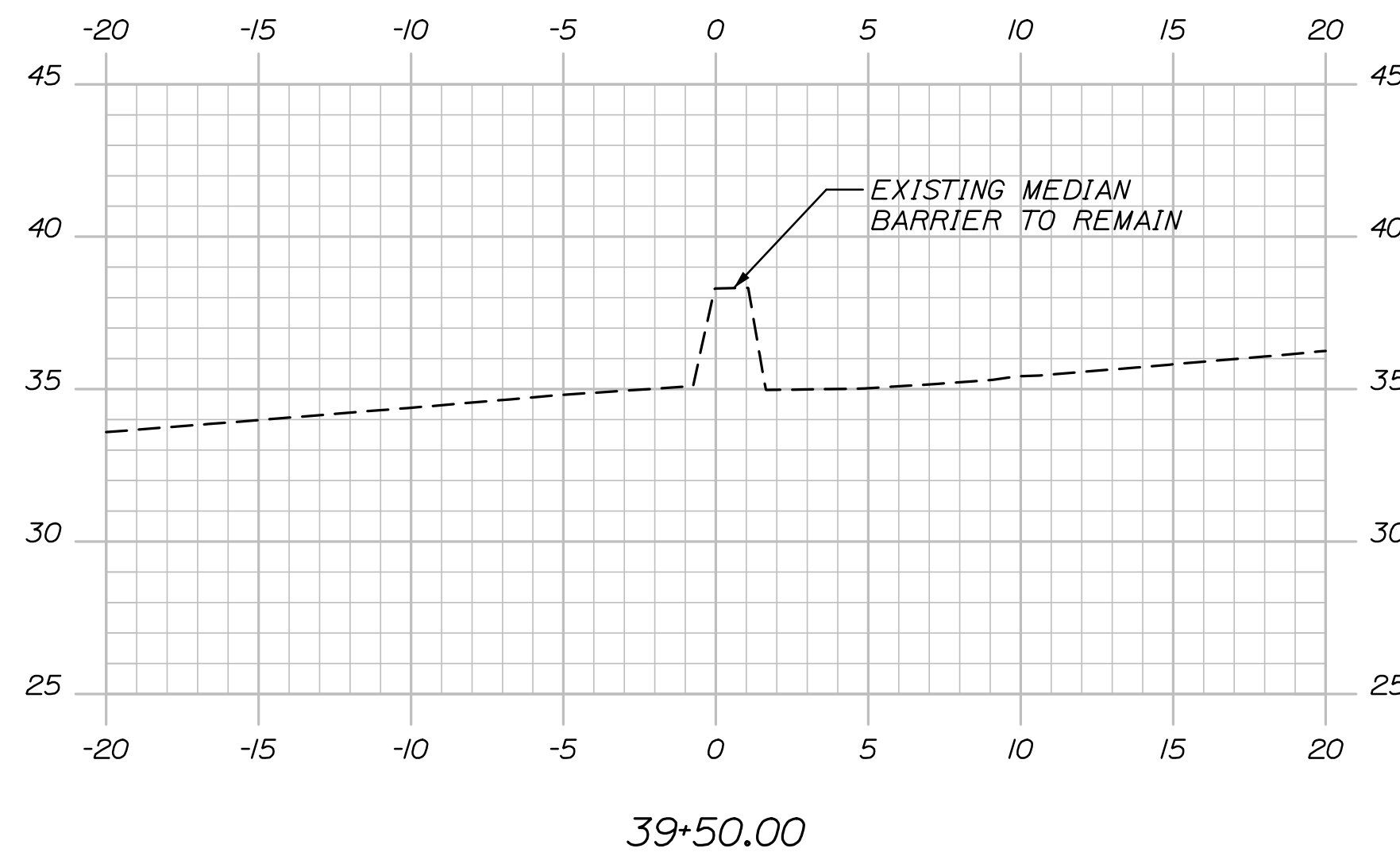
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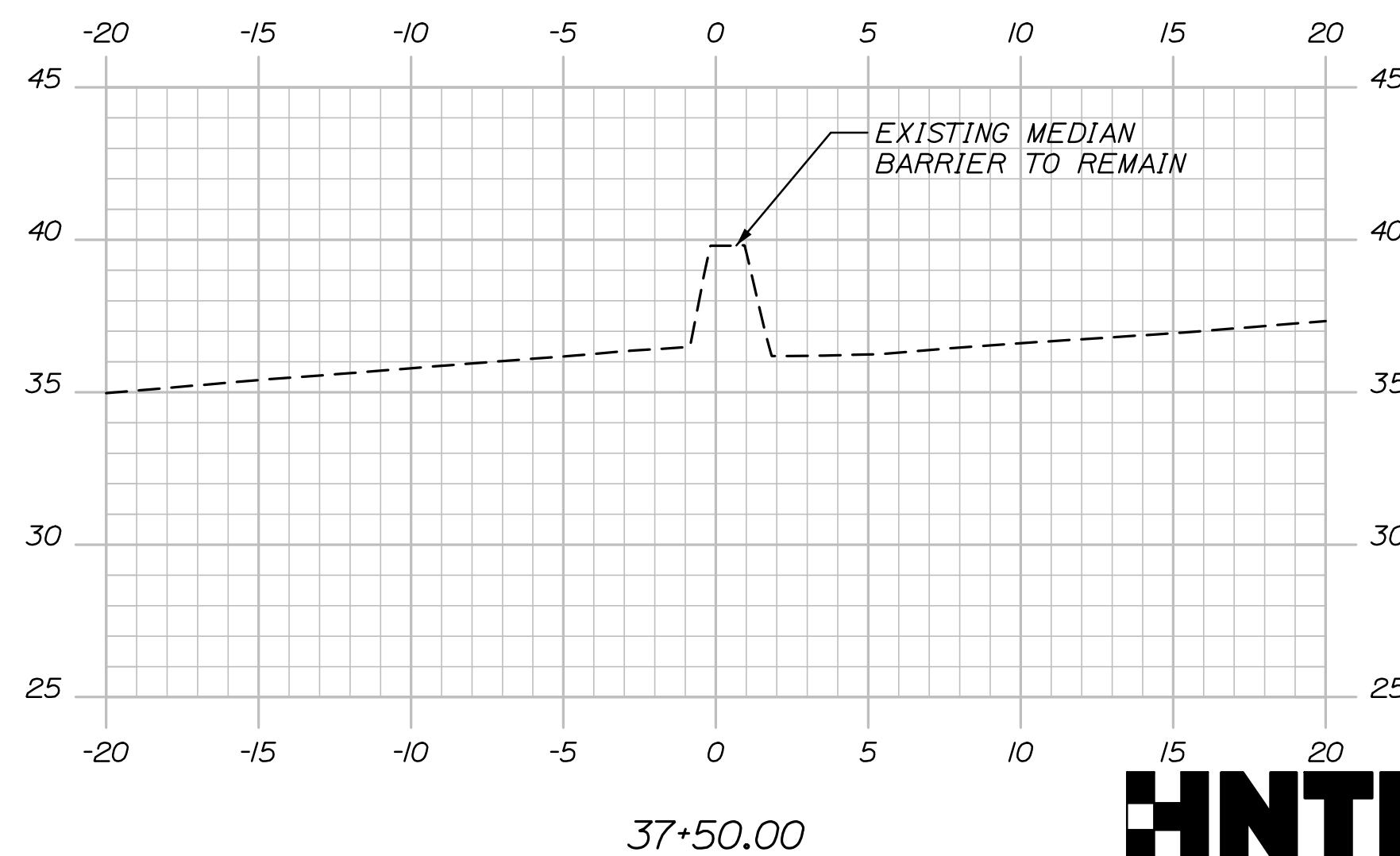
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39+50.00



37+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FEDERAL PROJECT 2239400
WIN
22394.00
HIGHWAY PLANS

DATE	BY	PROJ. MGR.	SHAWN SMITH	DATE	BY	PROJ. MGR.	SHAWN SMITH
12/21	PEM	DESIGN-DETAILED	PEM	12/21	PEM	DESIGN-DETAILED	PEM
12/21	RWH	CHECKED-REVIEWED	EDD	12/21	RWH	CHECKED-REVIEWED	EDD
-	-	DESIGN-DETAILED	-	-	-	DESIGN-DETAILED	-
-	-	REVISIONS 1	-	-	-	REVISIONS 1	-
-	-	REVISIONS 2	-	-	-	REVISIONS 2	-
-	-	REVISIONS 3	-	-	-	REVISIONS 3	-
-	-	REVISIONS 4	-	-	-	REVISIONS 4	-
-	-	FIELD CHANGES	-	-	-	FIELD CHANGES	-

DATE	BY	PROJ. MGR.	SHAWN SMITH	DATE	BY	PROJ. MGR.	SHAWN SMITH
12/21	PEM	DESIGN-DETAILED	PEM	12/21	PEM	DESIGN-DETAILED	PEM
12/21	RWH	CHECKED-REVIEWED	EDD	12/21	RWH	CHECKED-REVIEWED	EDD
-	-	DESIGN-DETAILED	-	-	-	DESIGN-DETAILED	-
-	-	REVISIONS 1	-	-	-	REVISIONS 1	-
-	-	REVISIONS 2	-	-	-	REVISIONS 2	-
-	-	REVISIONS 3	-	-	-	REVISIONS 3	-
-	-	REVISIONS 4	-	-	-	REVISIONS 4	-
-	-	FIELD CHANGES	-	-	-	FIELD CHANGES	-

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER
16
OF 24

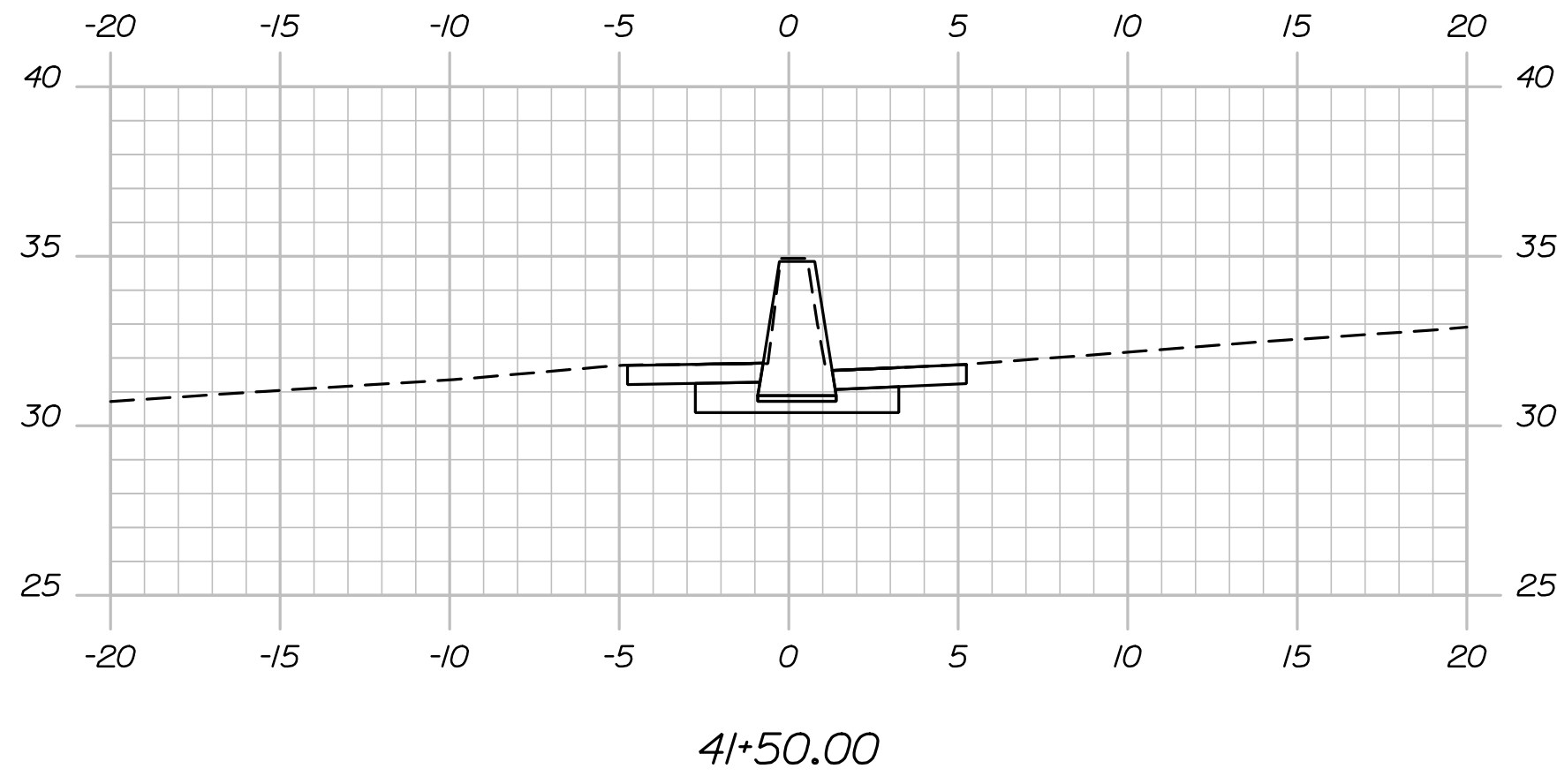


Date: 12/15/2021

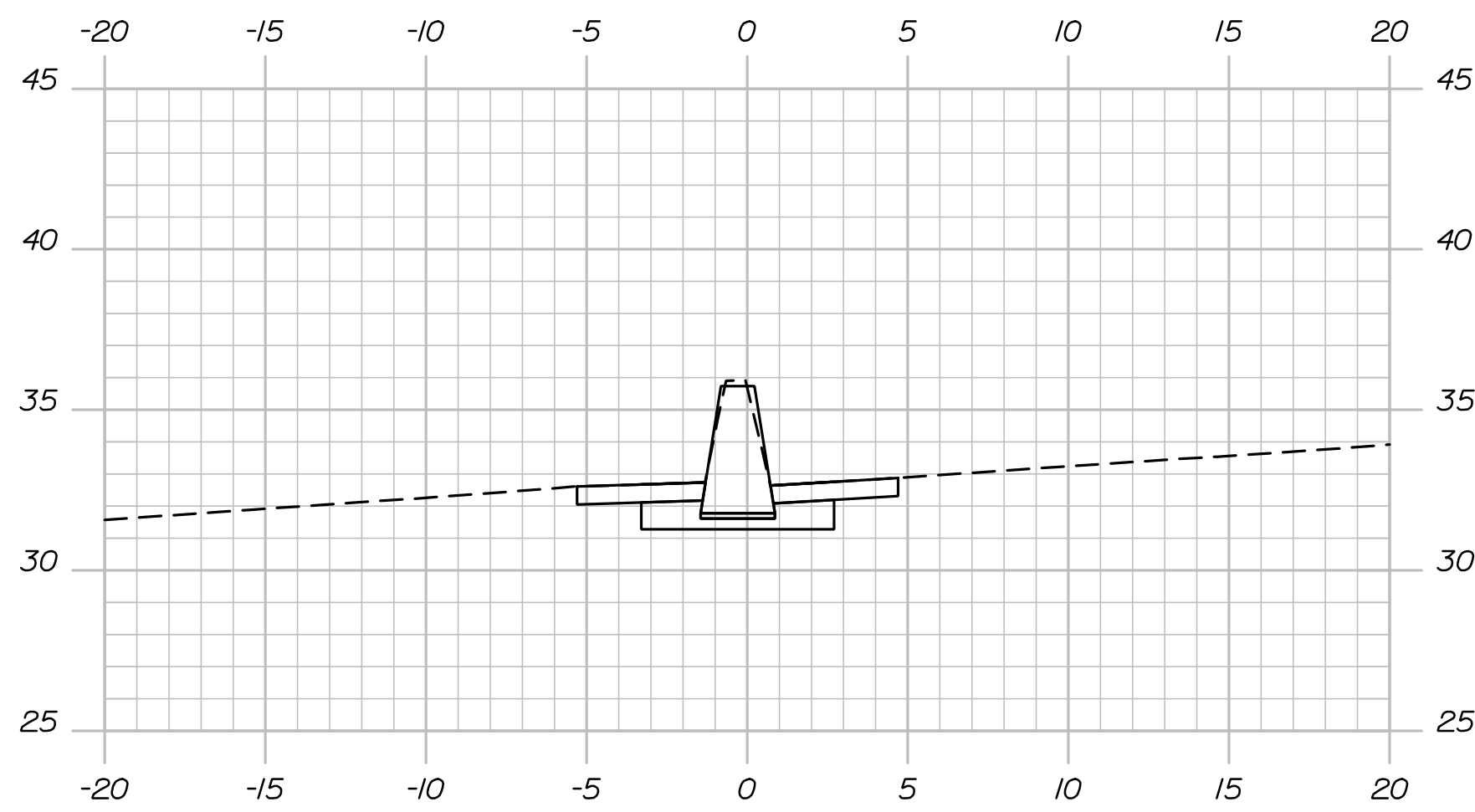
Username:

Division:

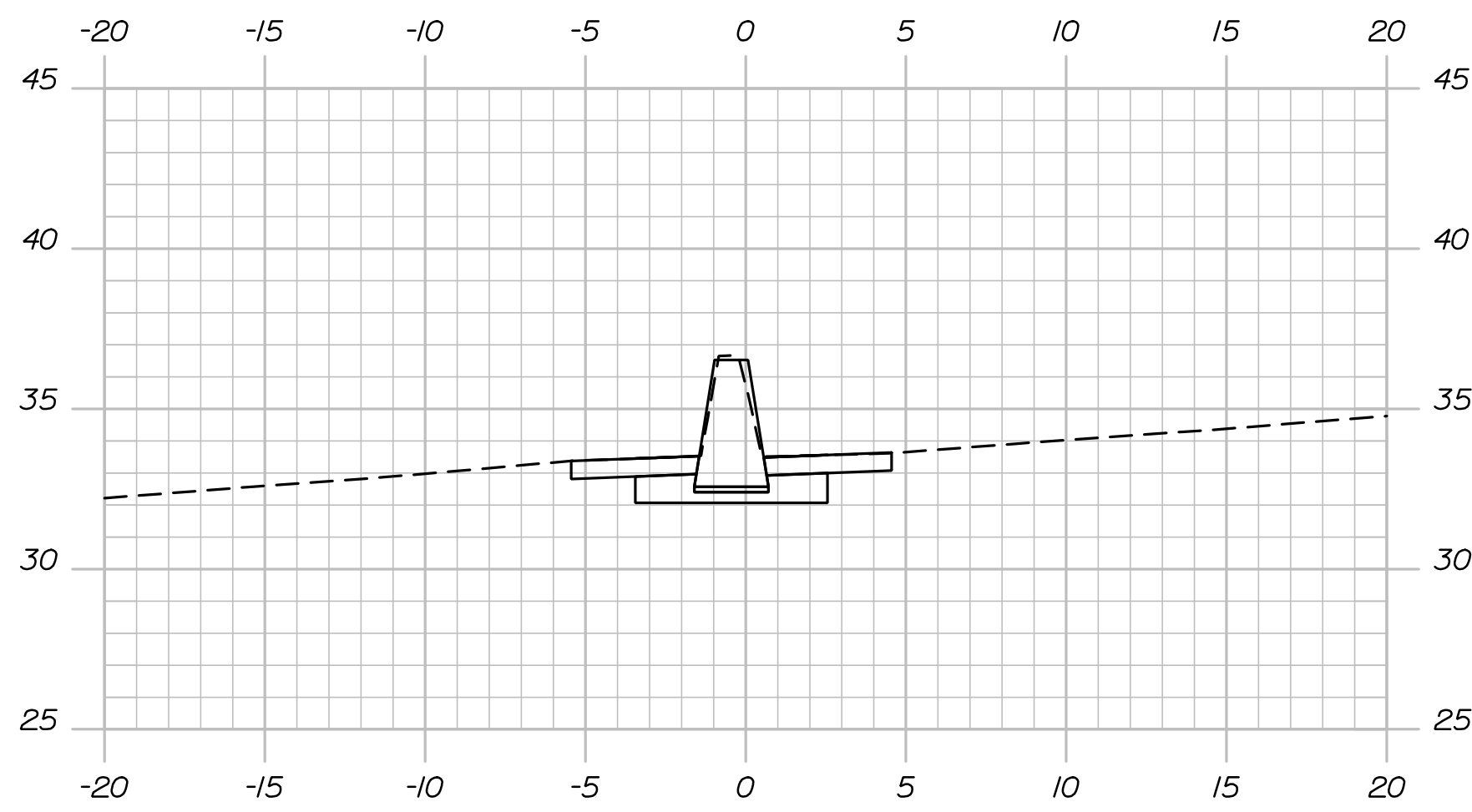
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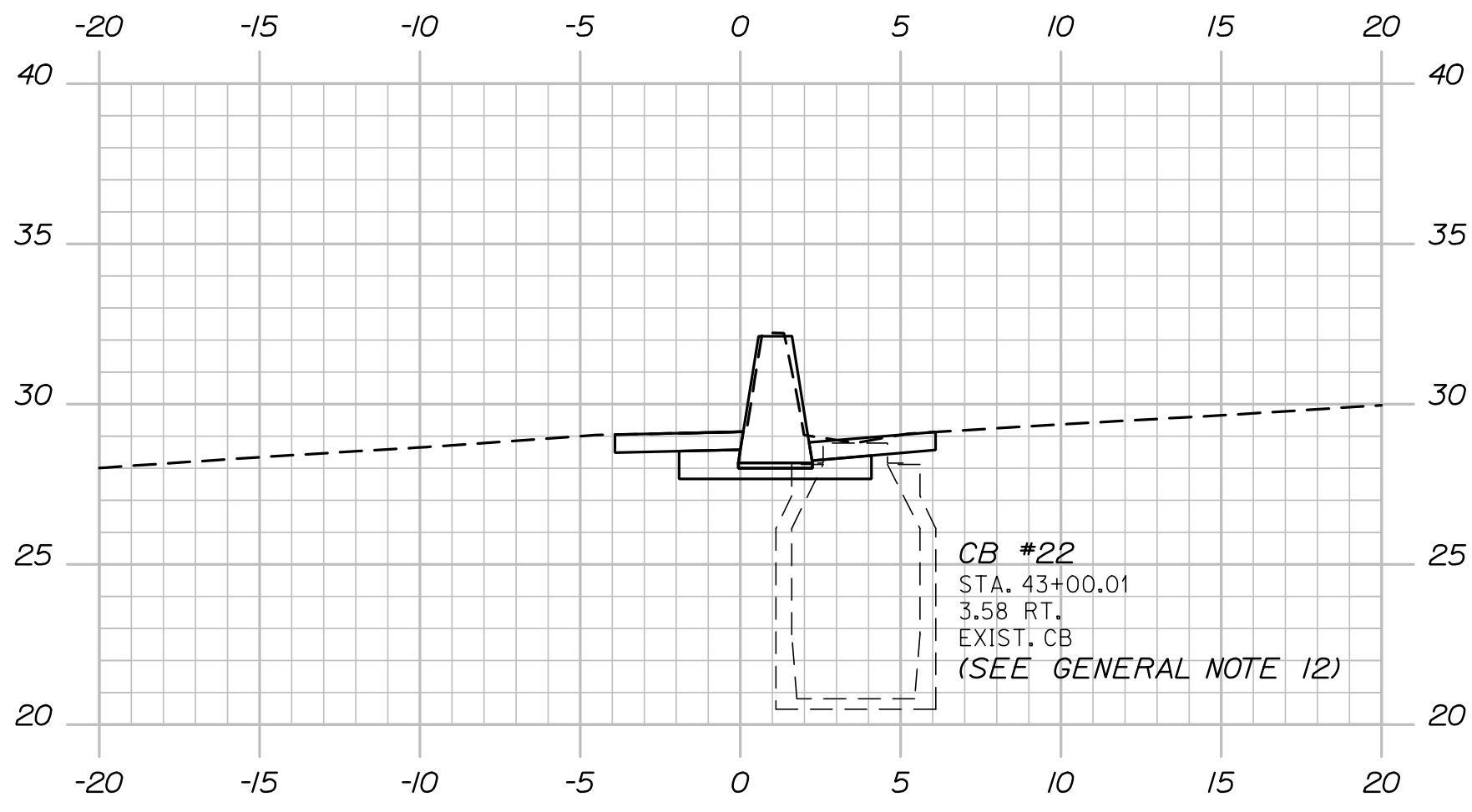
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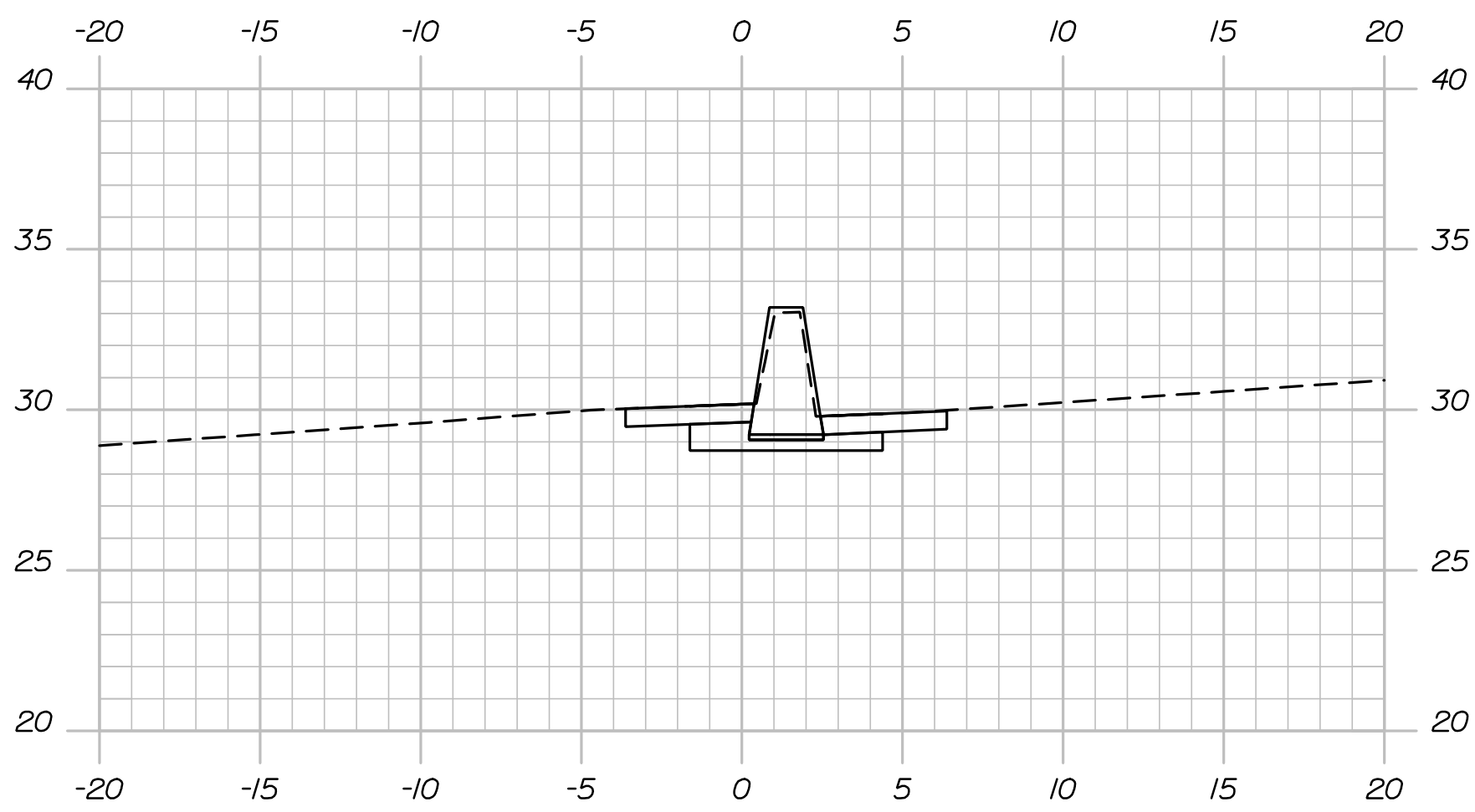
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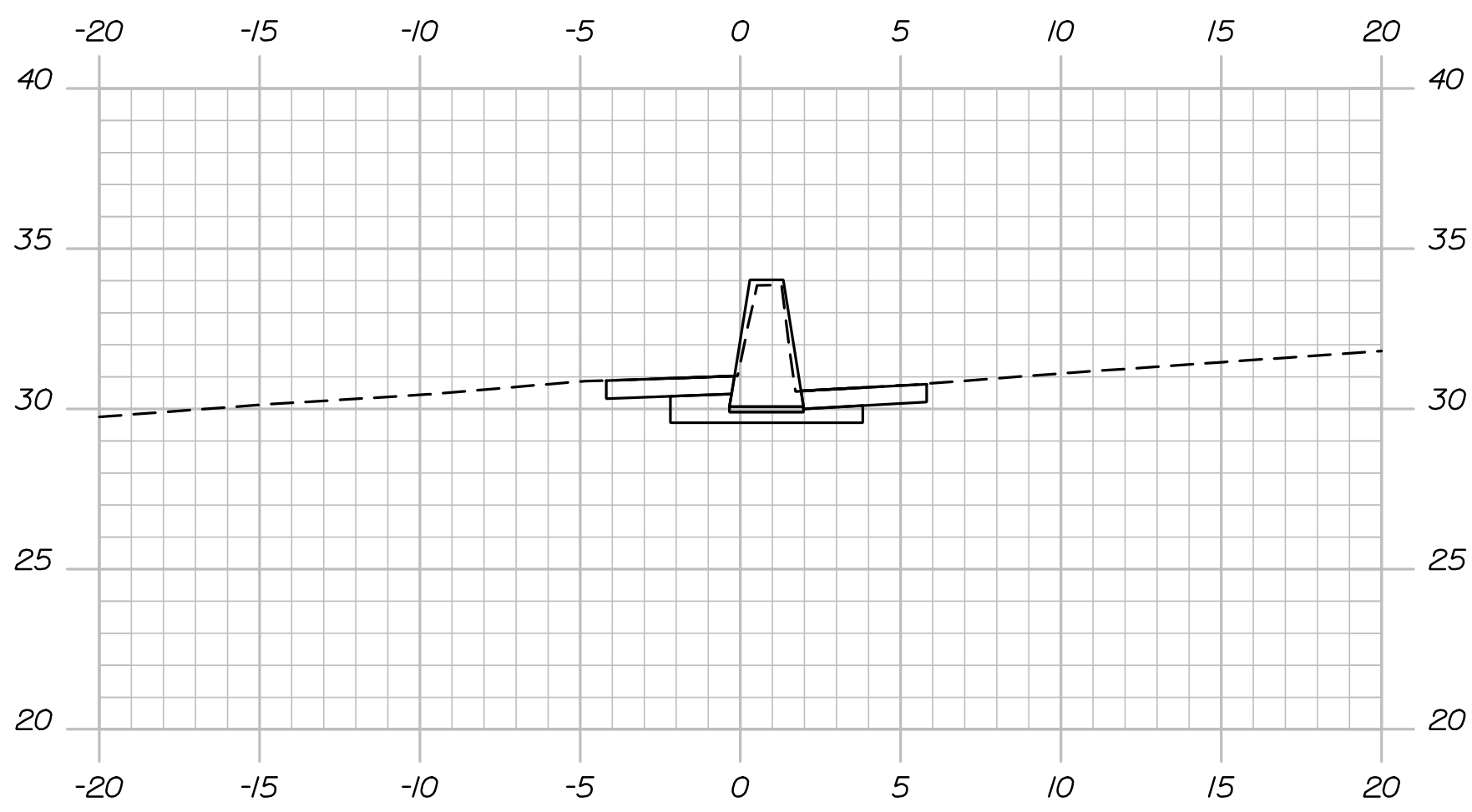
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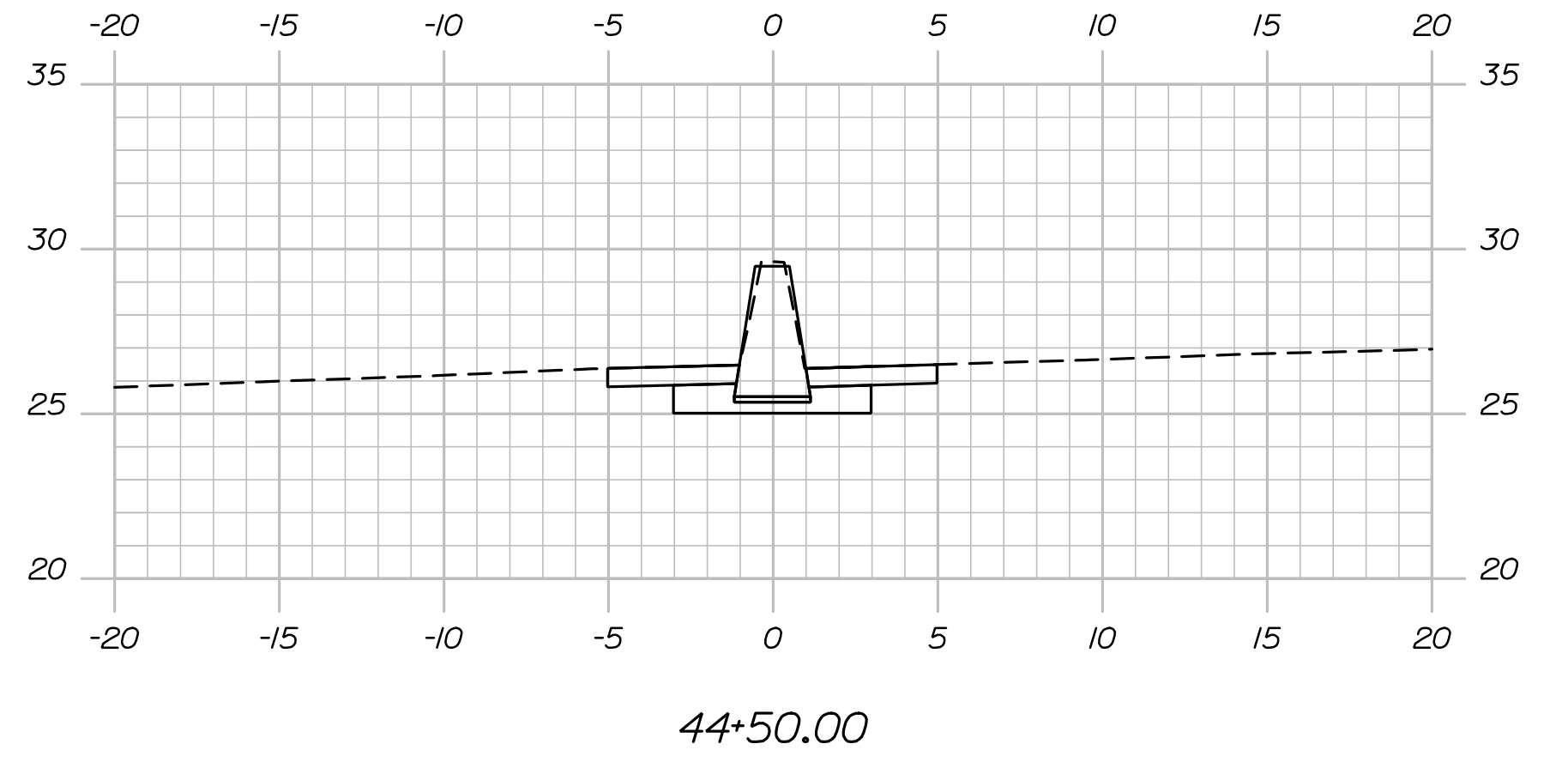
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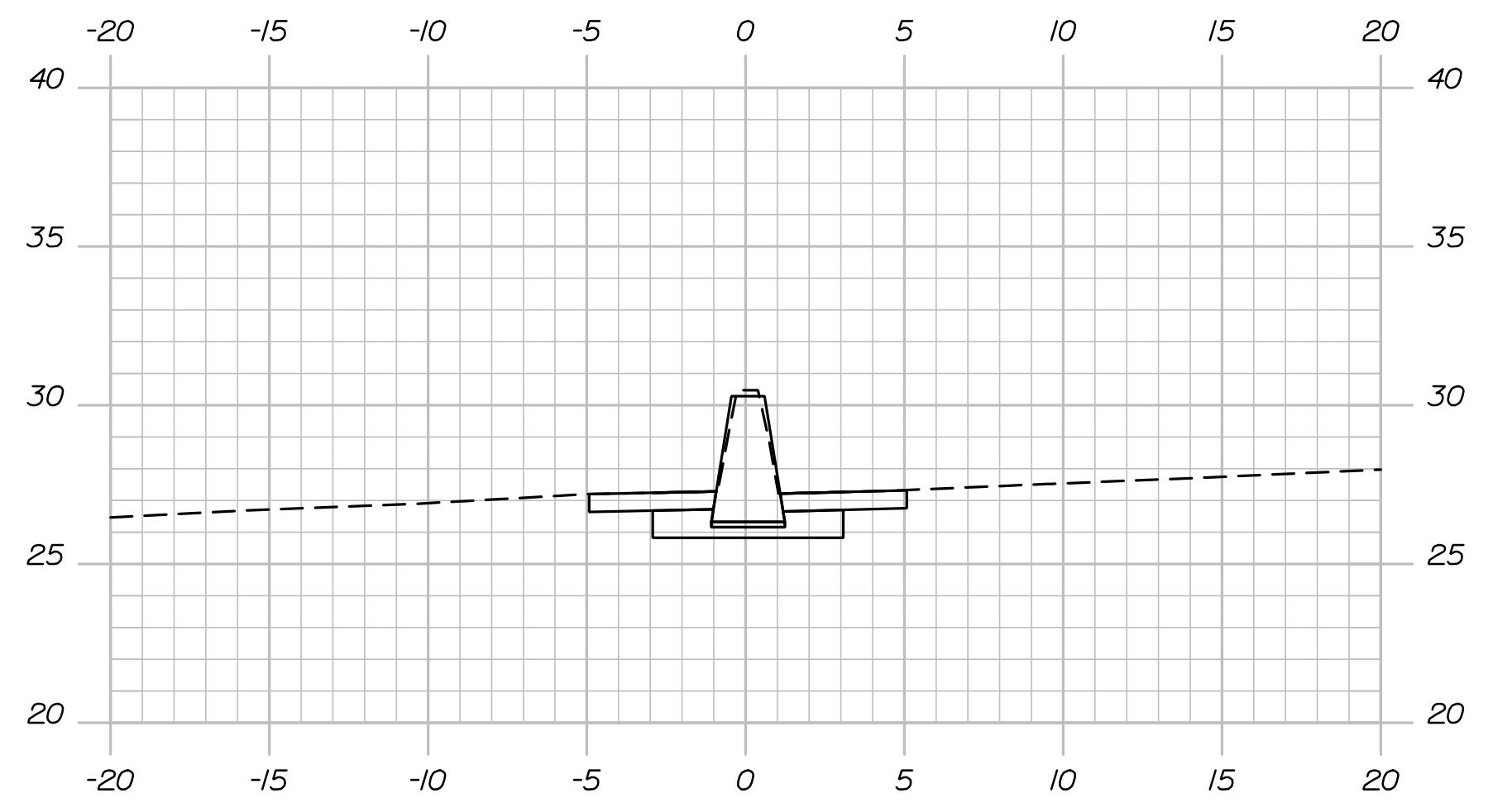
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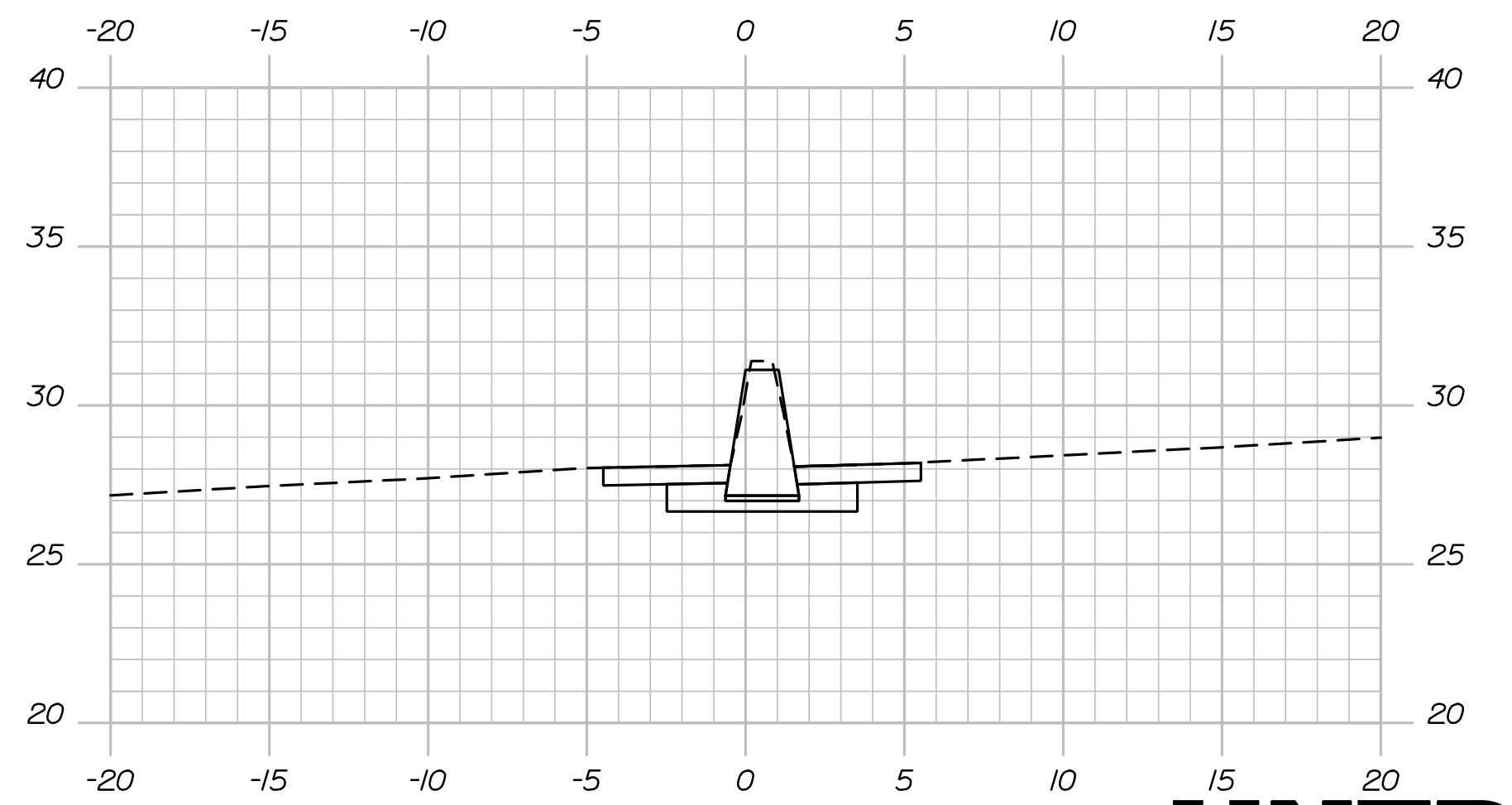
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44+50.00



44+00.00



43+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FEDERAL PROJECT 2239400

WIN
22394.00
HIGHWAY PLANS

PROJ. MGR.	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

SHEET NUMBER
17
OF 24



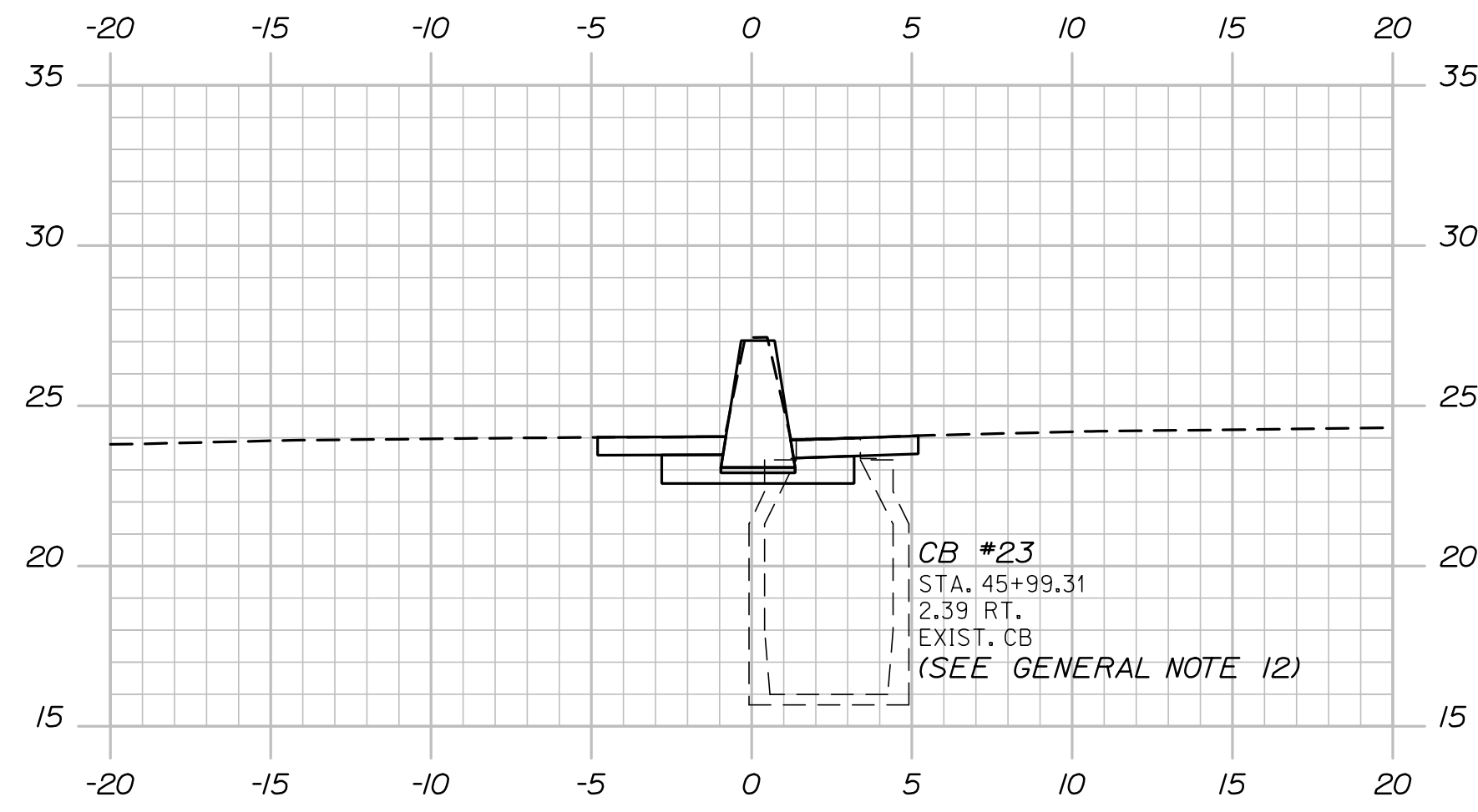
Sta. 40+50.00 to Sta. 44+50.00

Date: 12/15/2021

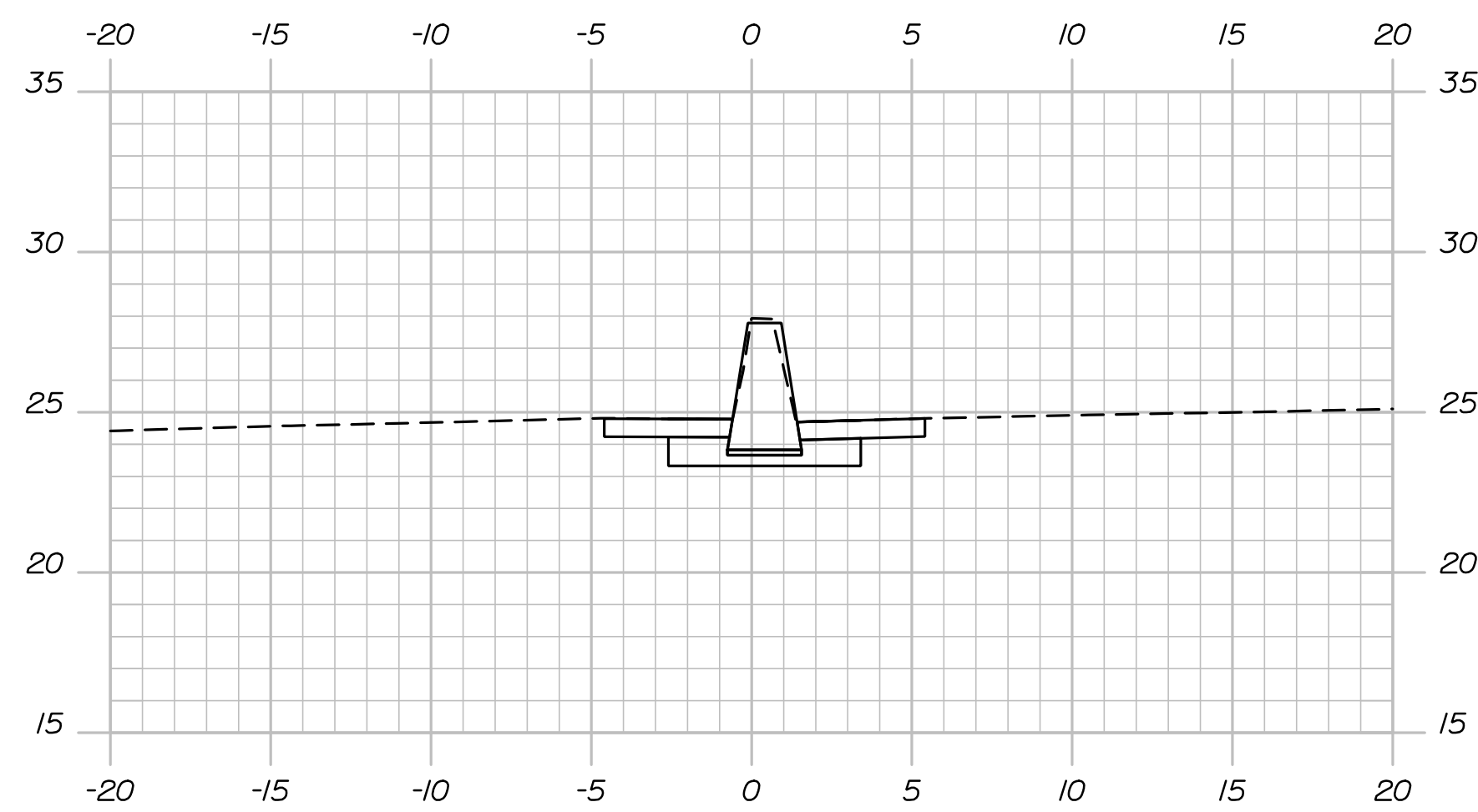
Username:

Division:

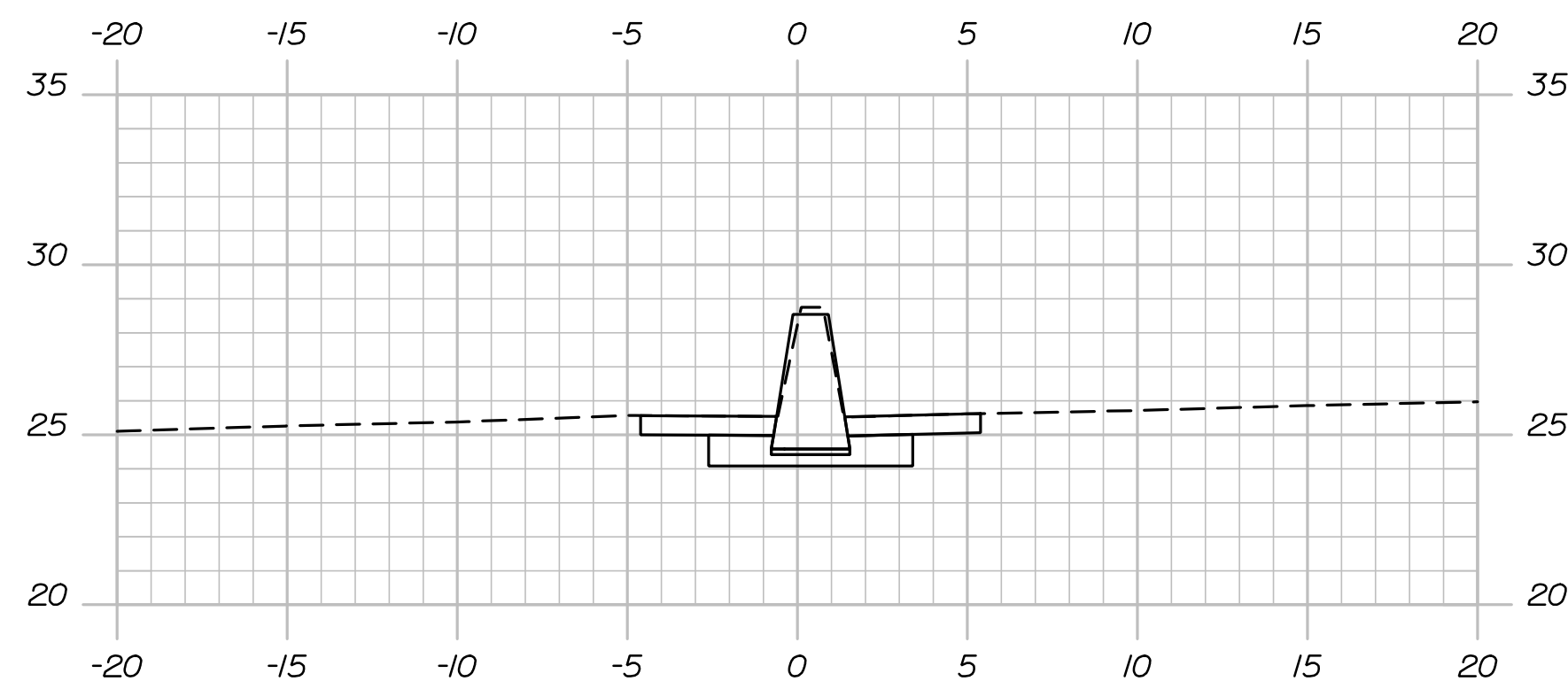
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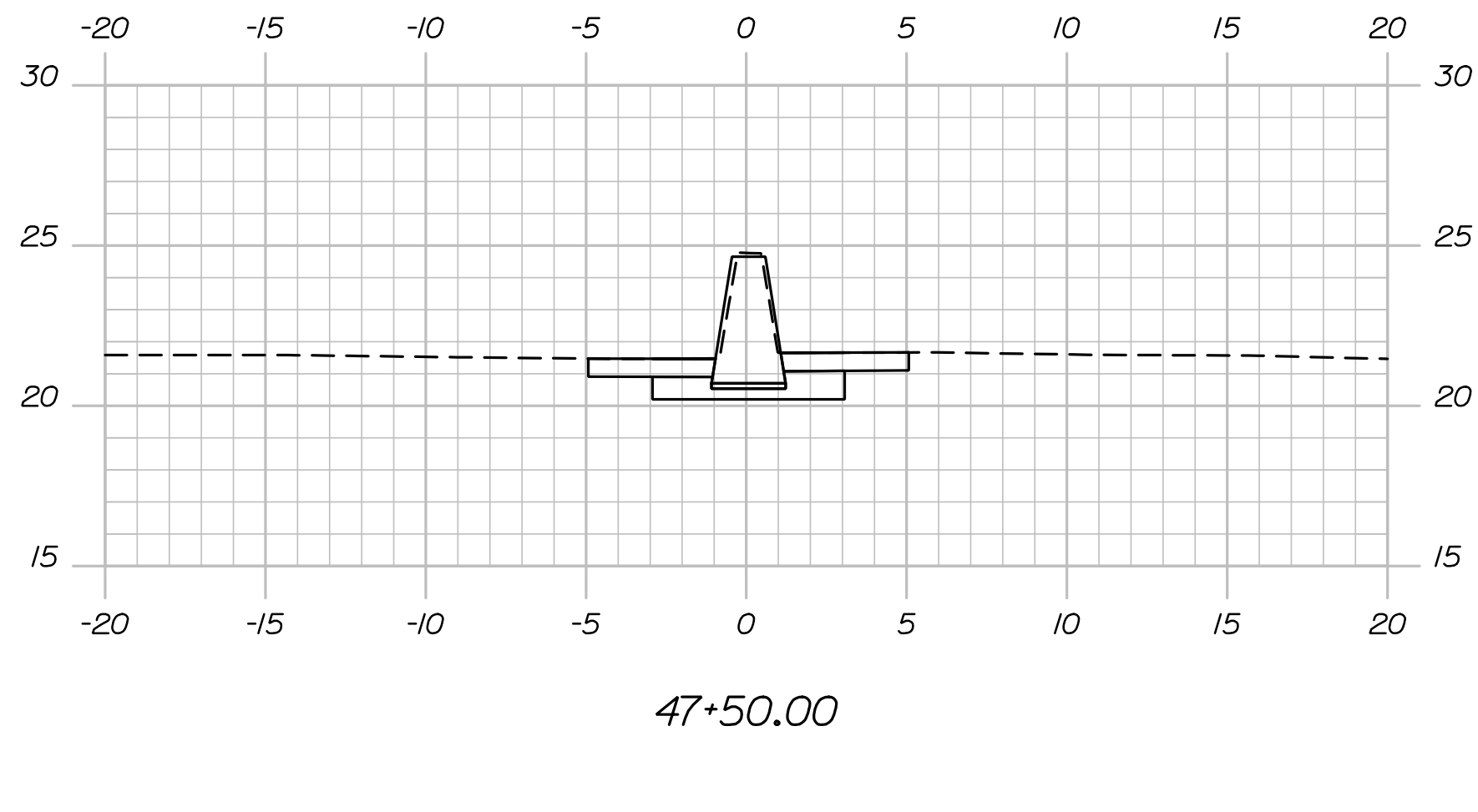
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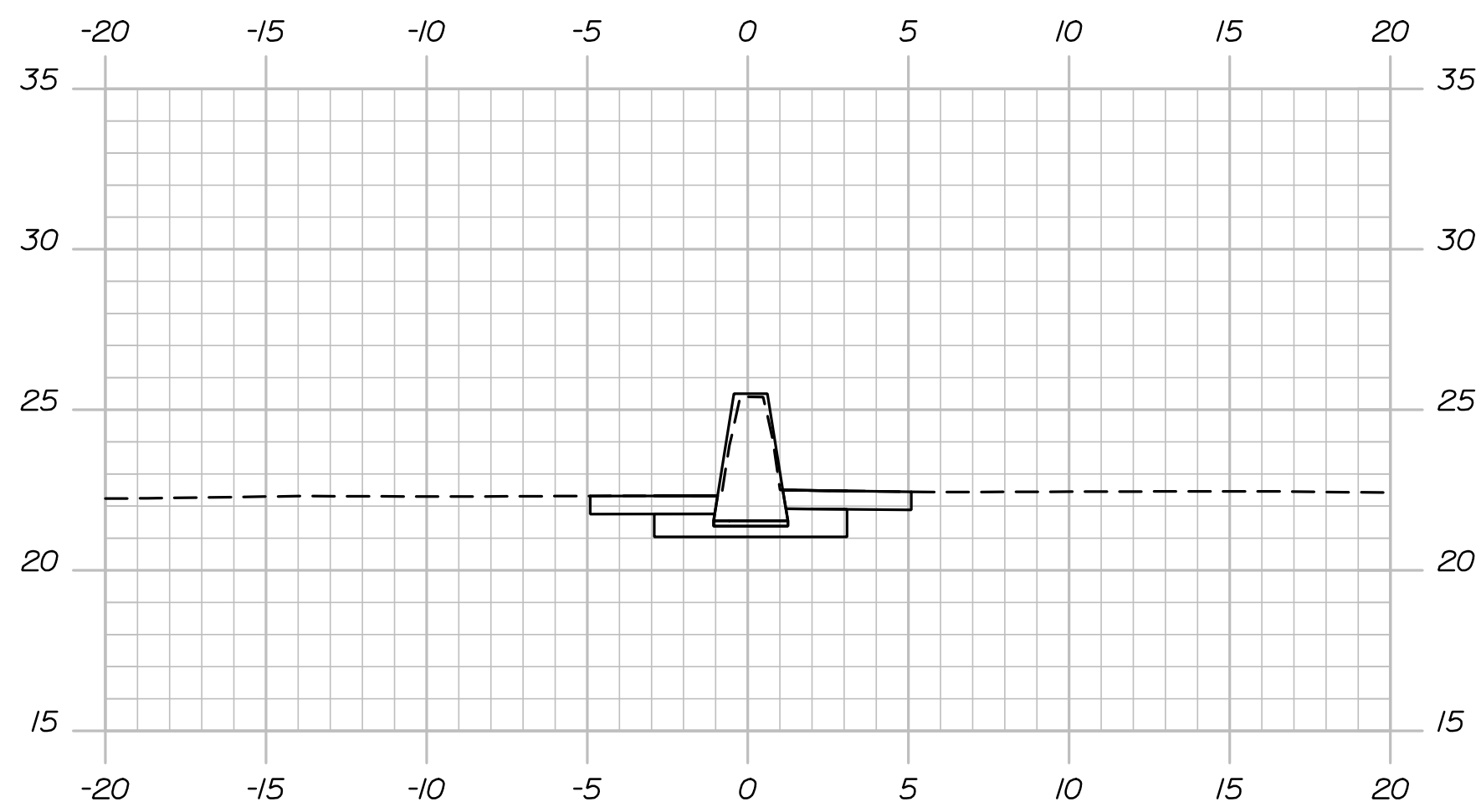
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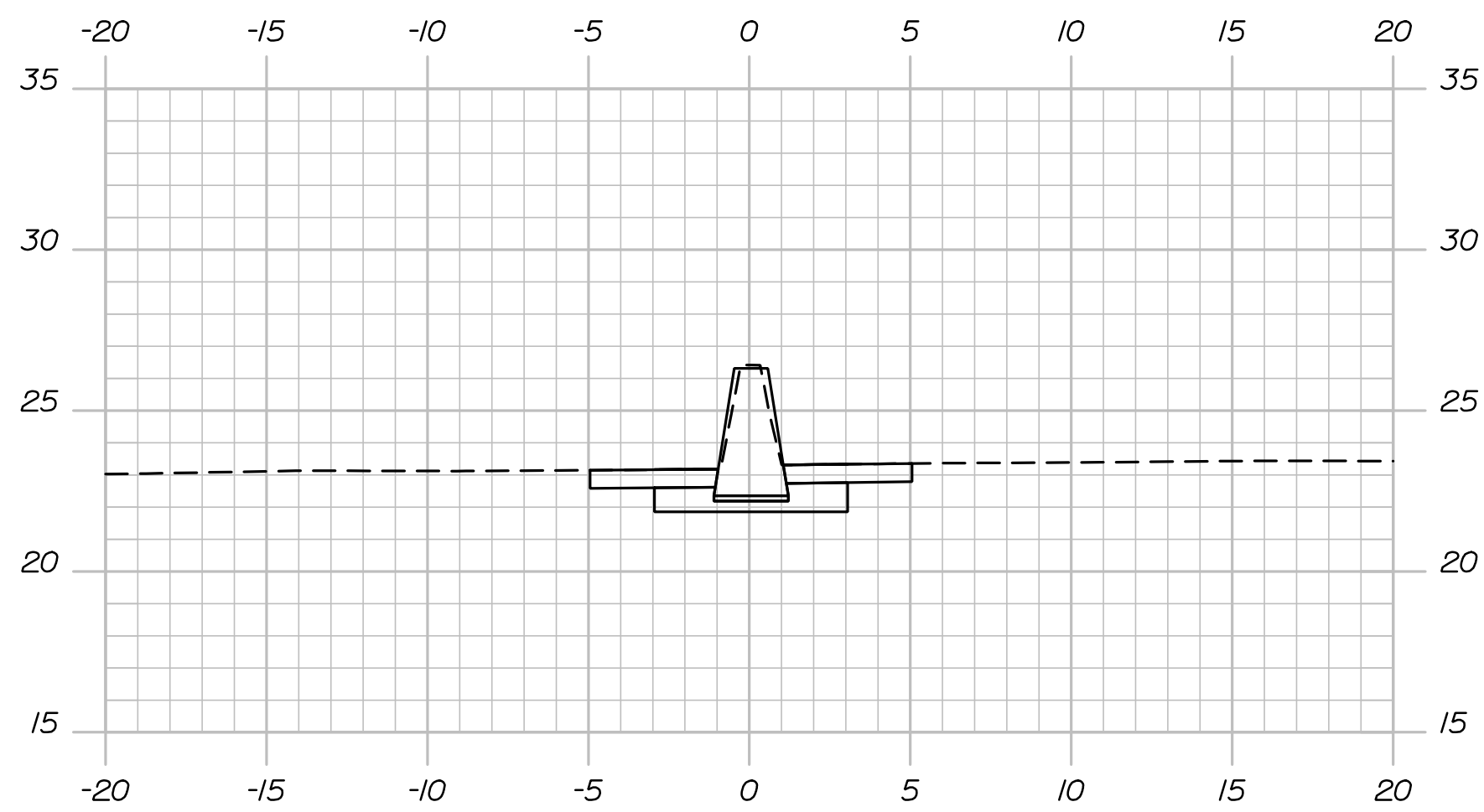
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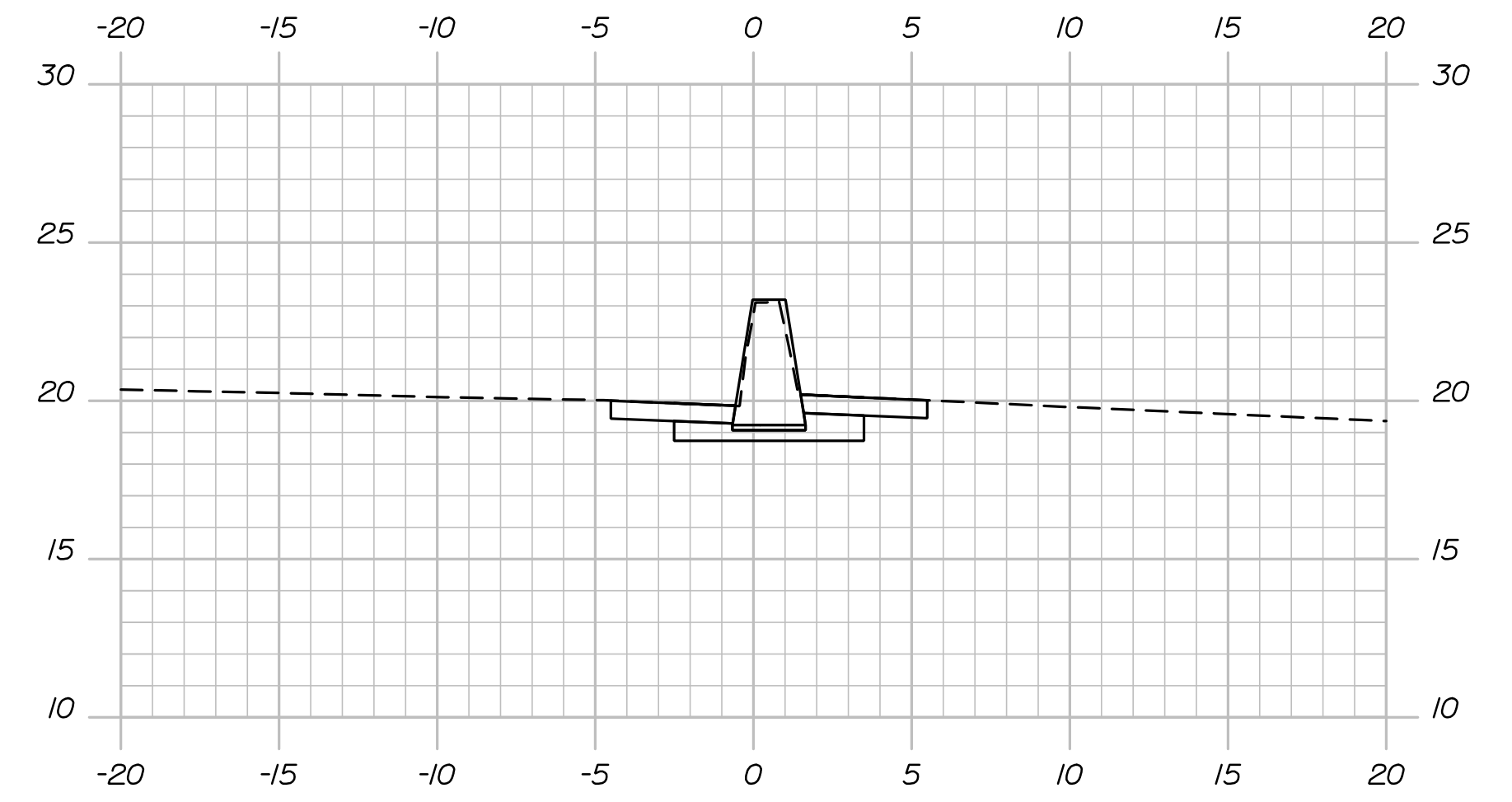
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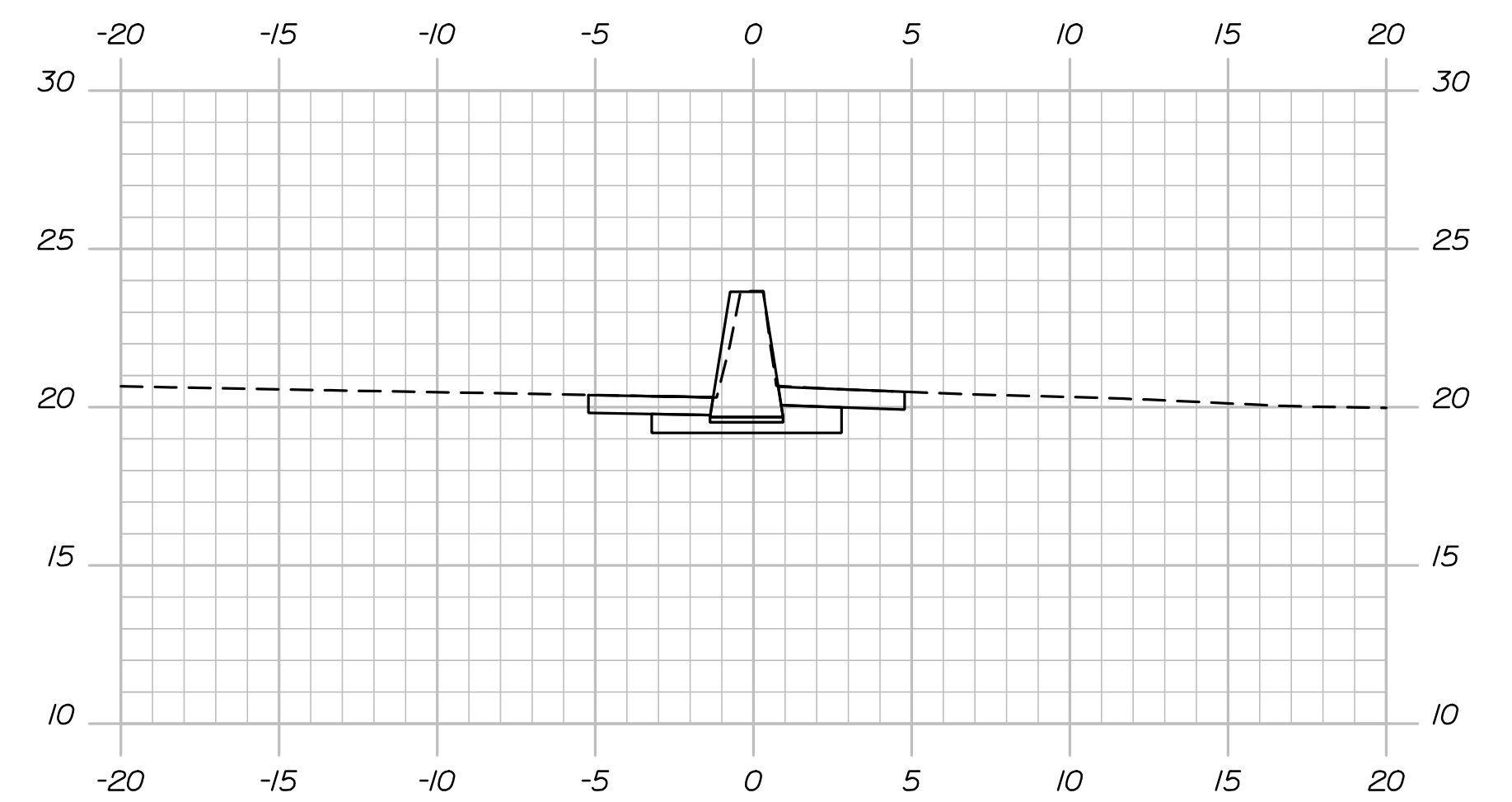
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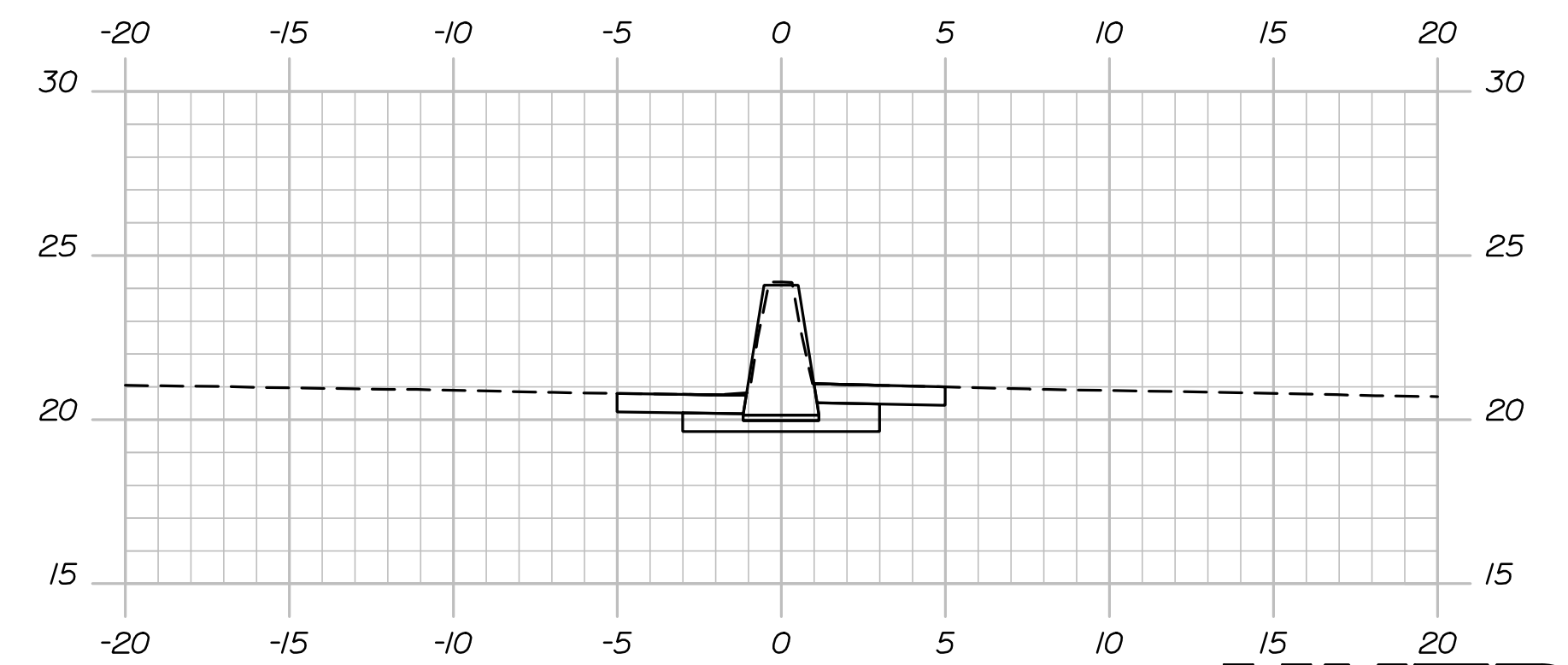
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49+00.00



48+50.00



48+00.00

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
 I-295 MEDIAN BARRIER
 CROSS SECTIONS

SHEET NUMBER

18

OF 24

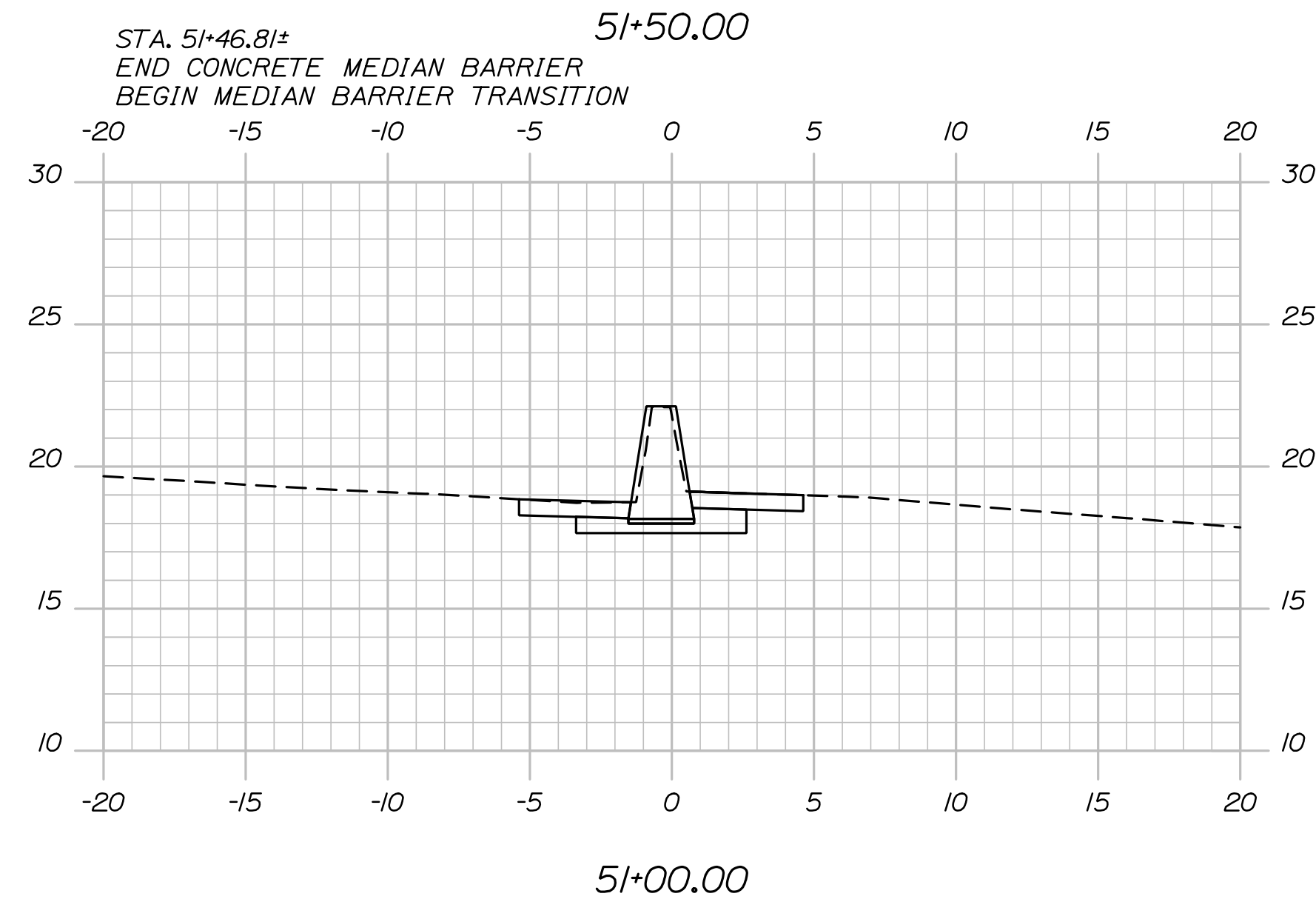
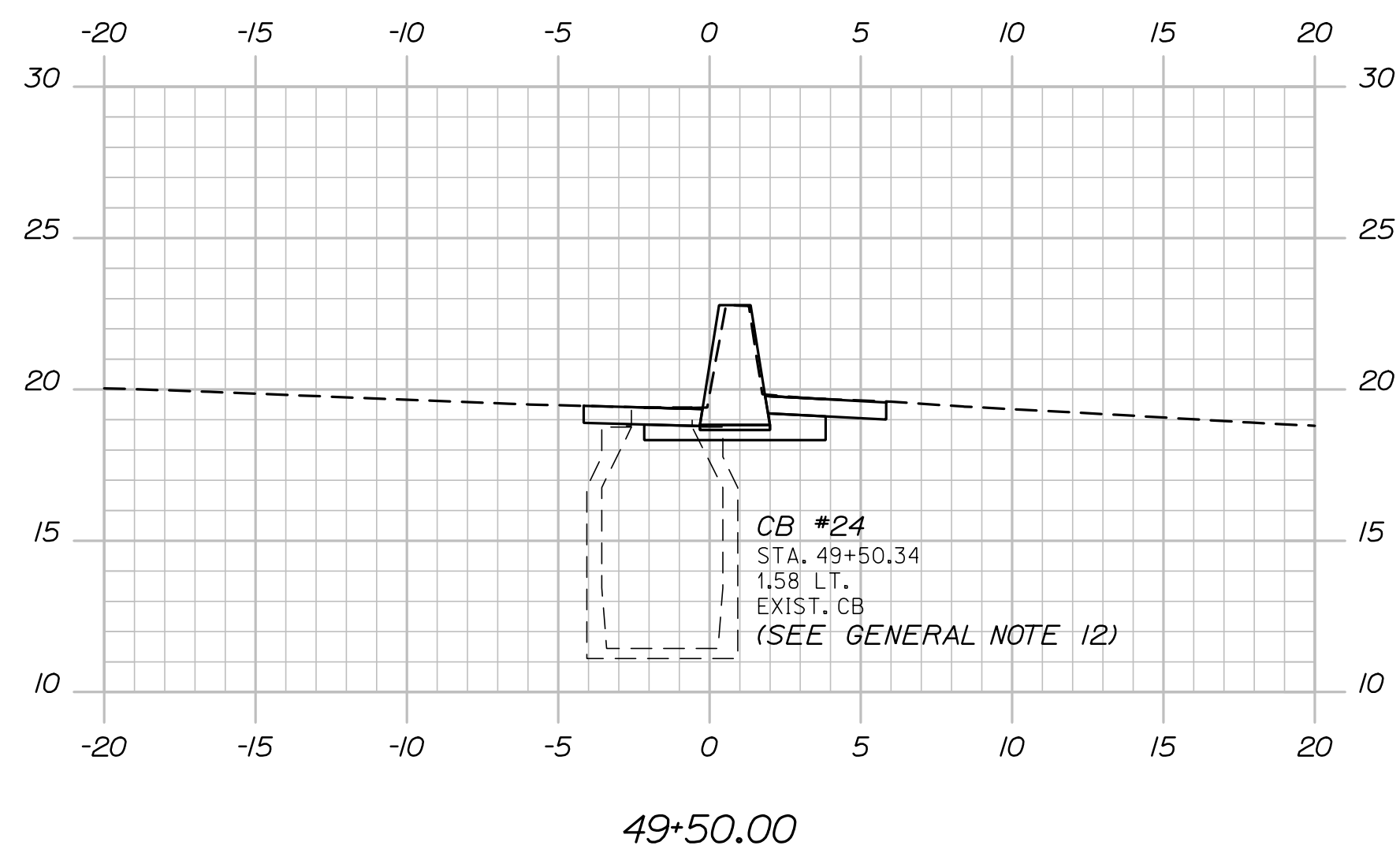
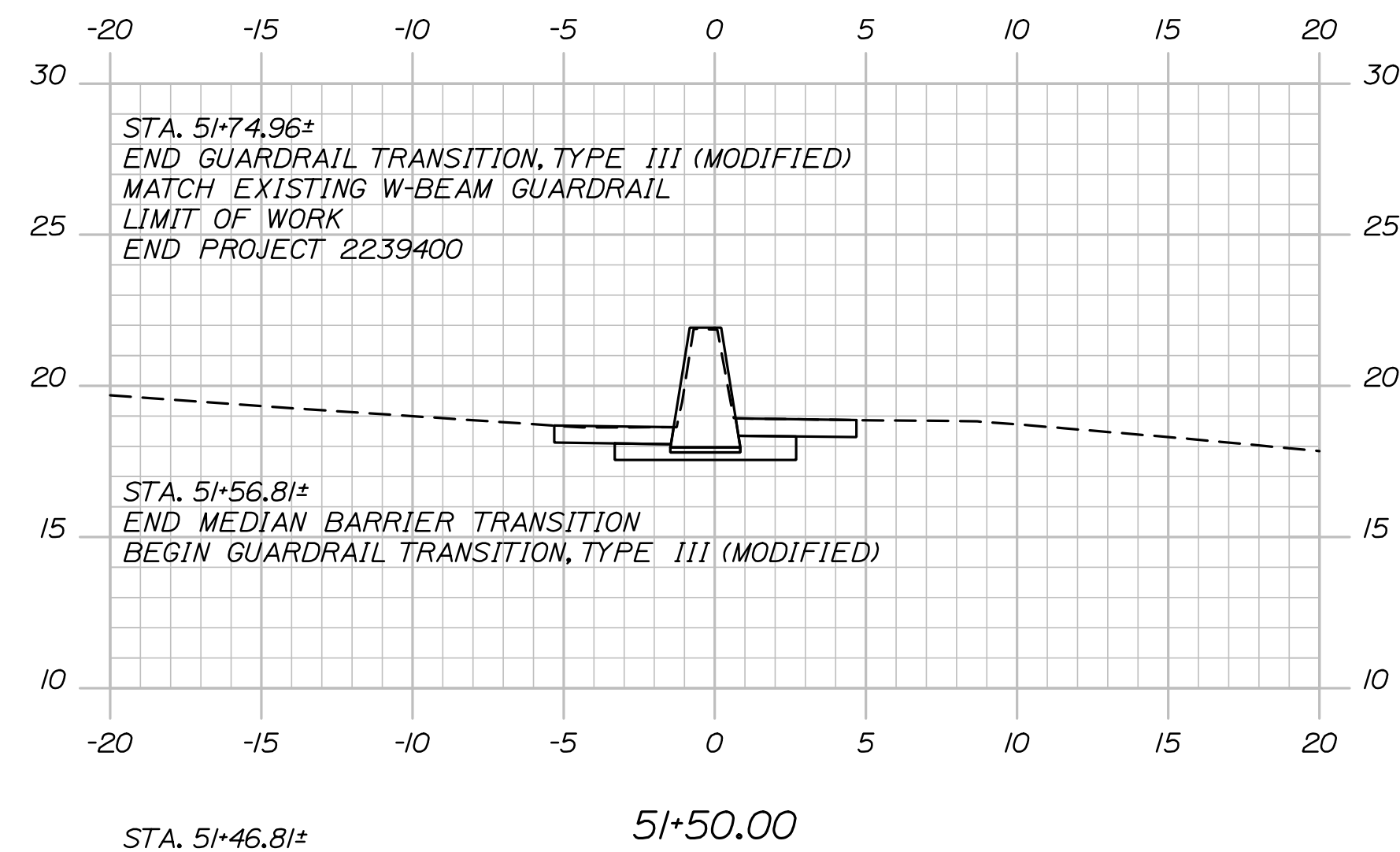
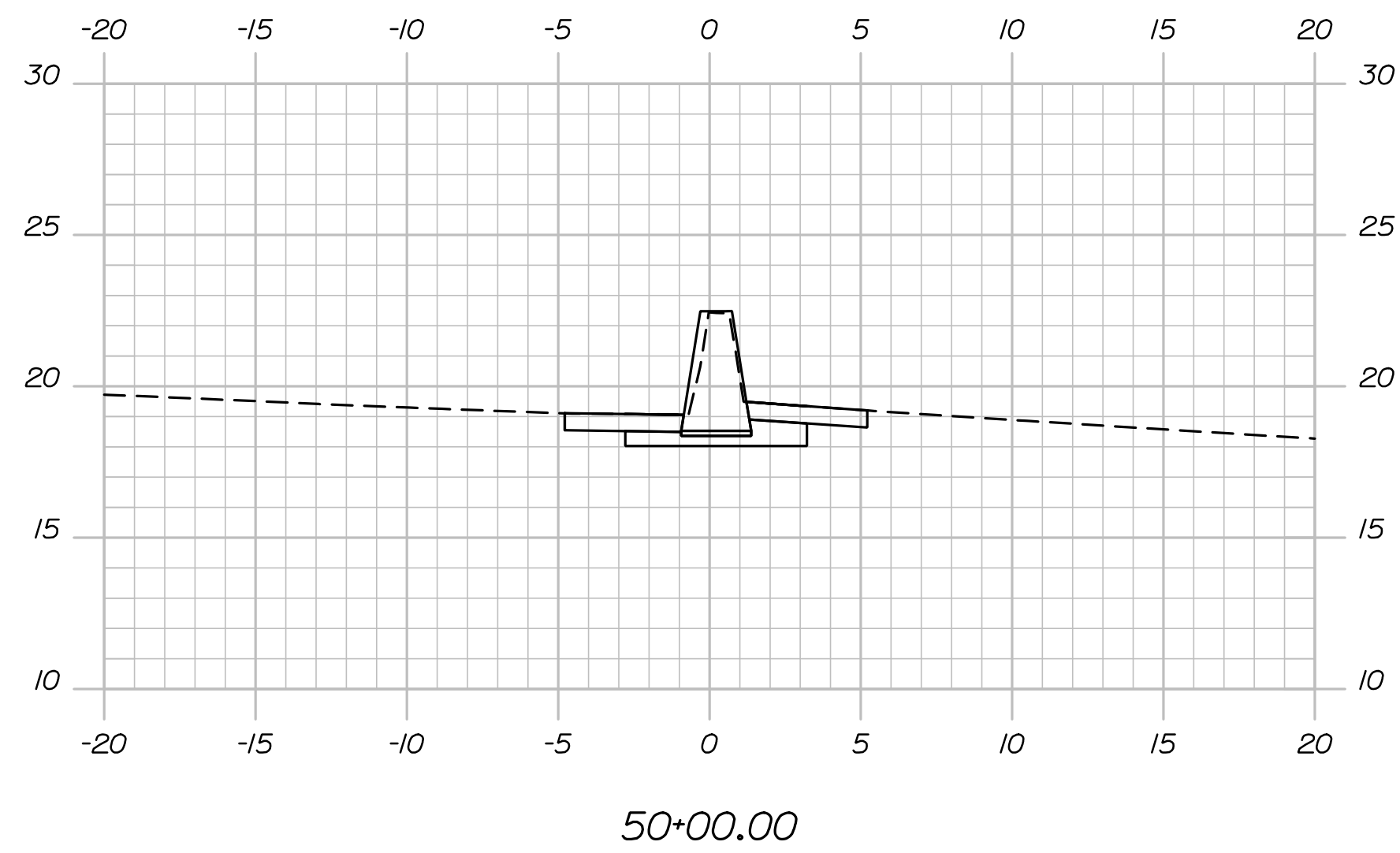
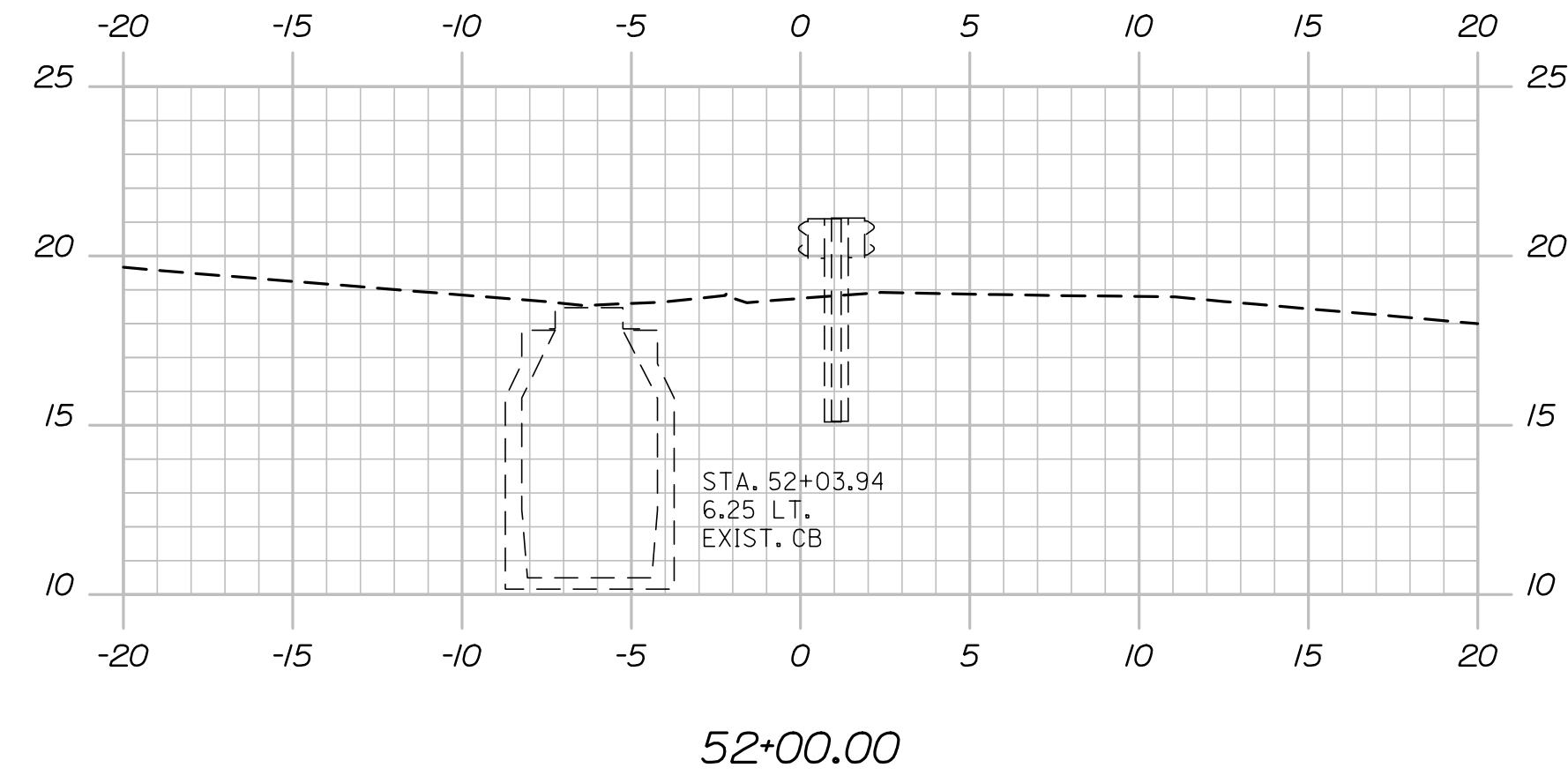
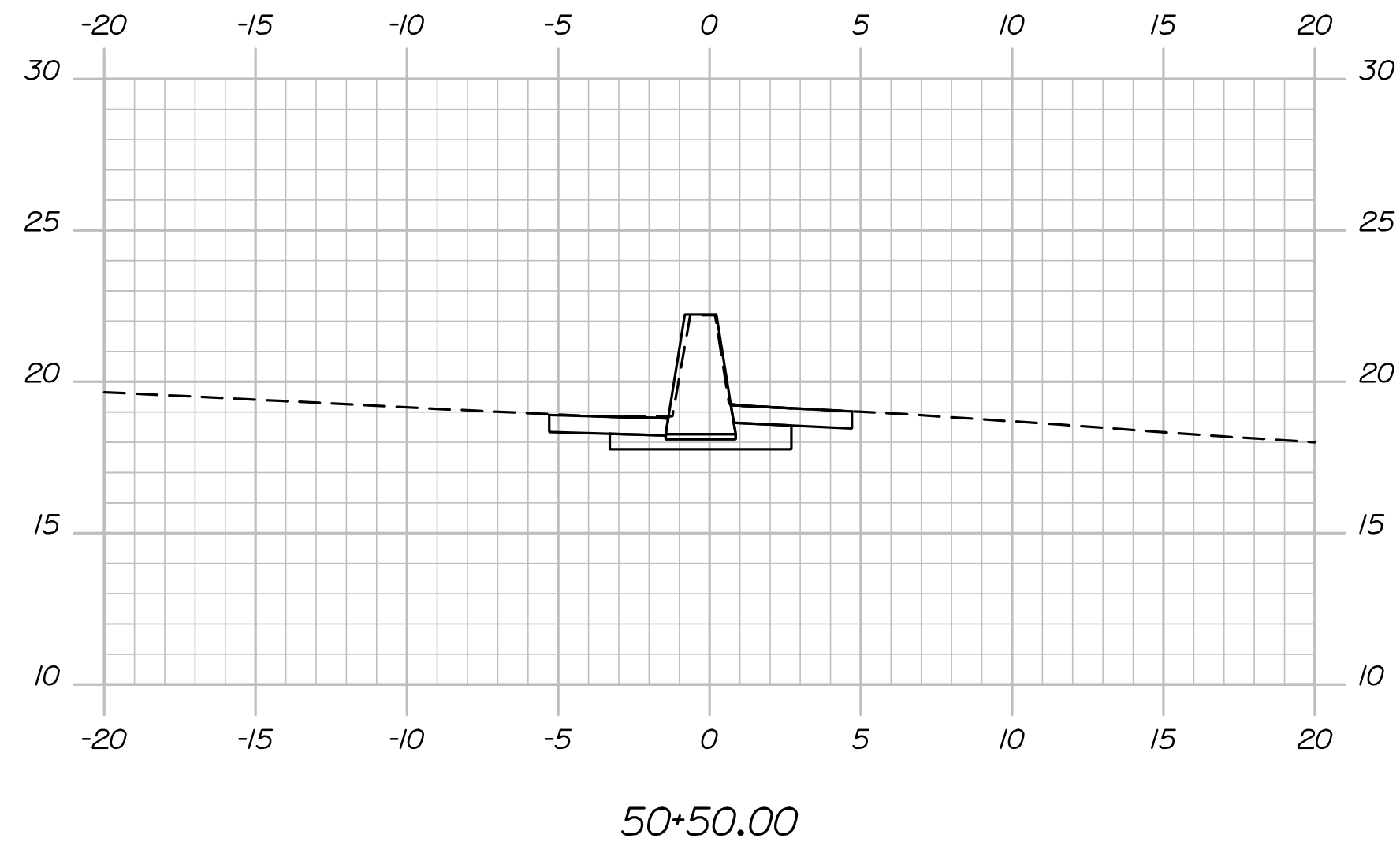


Date: 12/15/2021

Username:

Division:

Filename: Xsect.dgn



PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE	P.E. NUMBER	DATE

PORTLAND
I-295 MEDIAN BARRIER
CROSS SECTIONS

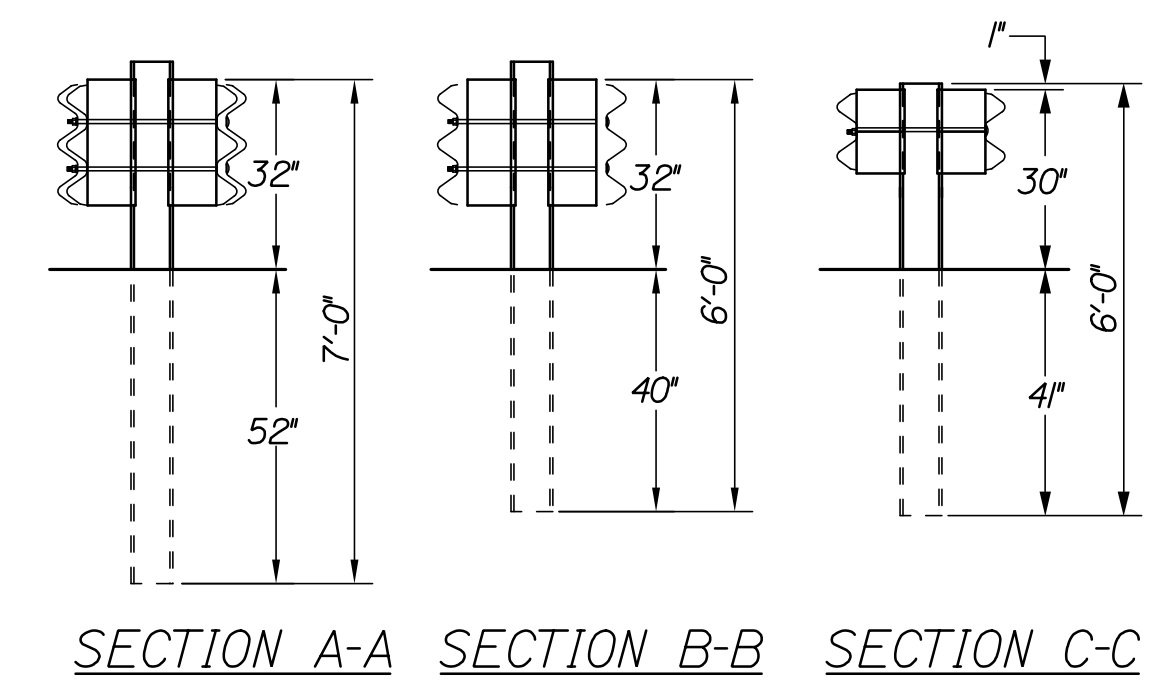
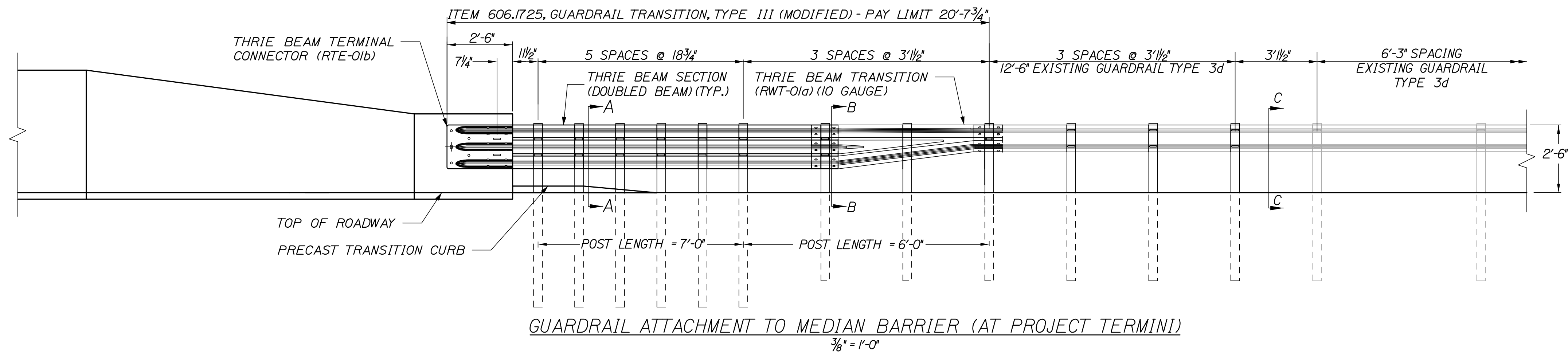
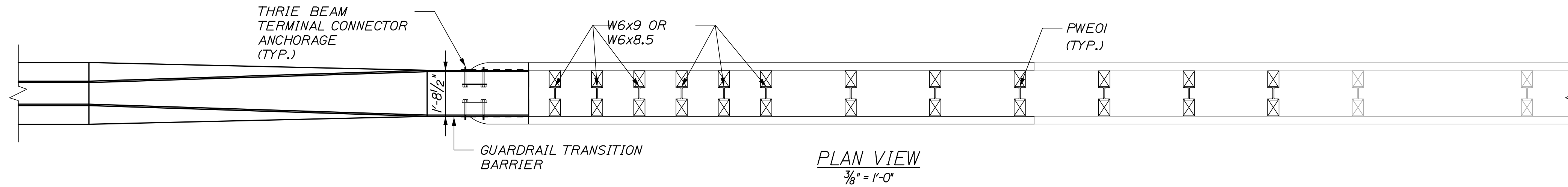


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Username:

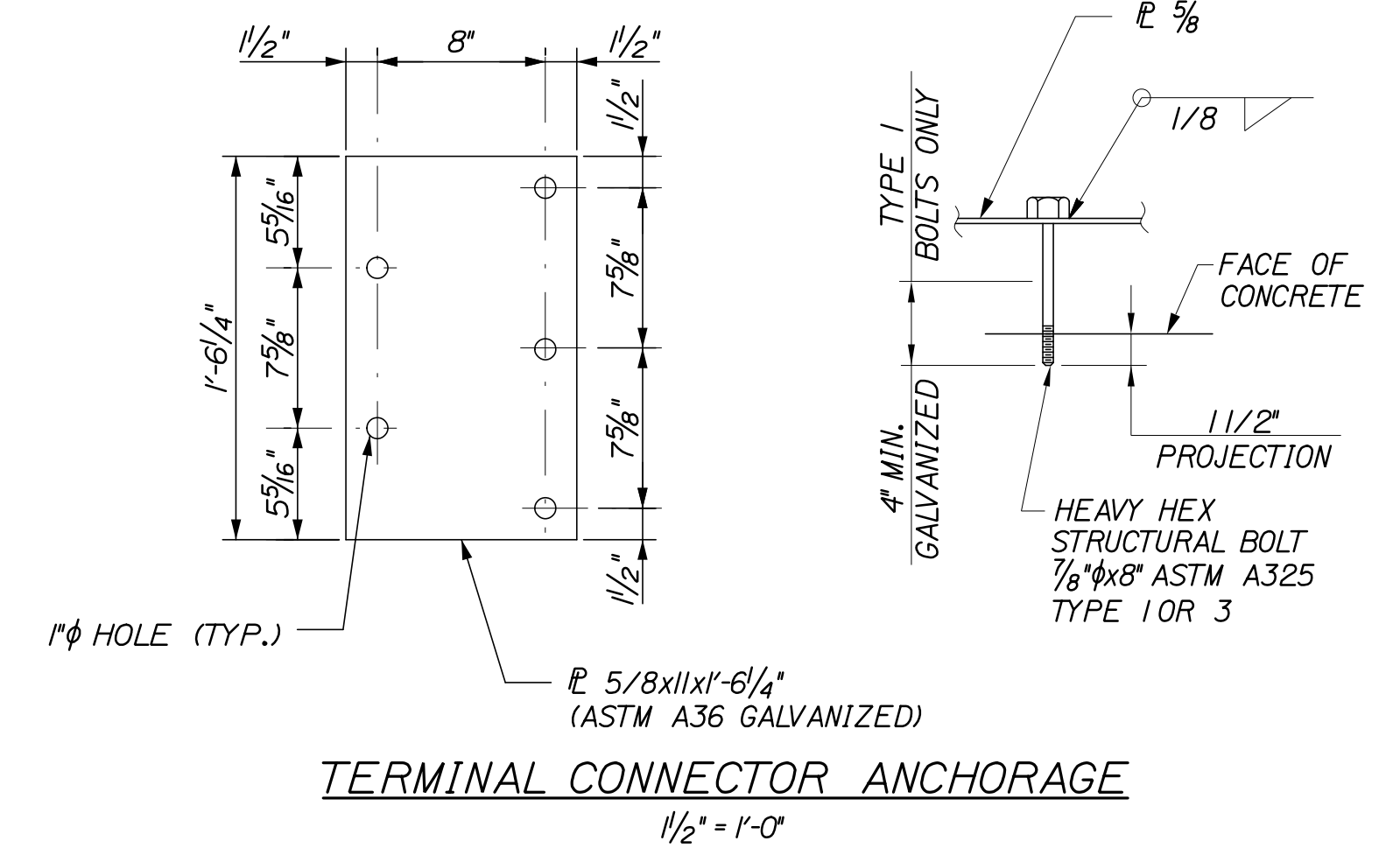
Division:

Filename: 020_GuardrailTransition.dgn



GENERAL NOTES:

- ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
- STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS. DESIGNATIONS PROVIDED IN PARENTHESIS RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE," 1979. AASHTO-AGC-ARTBA JOINT COOPERATE COMMITTEE.
- RAIL ELEMENT SHALL MEET ALL THE REQUIREMENTS OF AASHTO M-180 EXCEPT AS MODIFIED ON THE PLANS. THE THRIE BEAM TRANSITION TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE.
- AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.
- ANY ADDITIONAL POSTS, GUARDRAIL, AND HARDWARE, REQUIRED TO ATTACH TO EXISTING GUARDRAIL SHALL BE CONSIDERED INCIDENTAL TO THE MEDIAN BARRIER GUARDRAIL ATTACHMENT.



PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	PEM	PEM	12/21
CHECKED-REVIEWED	EDD	RWH	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
GUARDRAIL DETAILS
MEDIAN BARRIER GUARDRAIL TRANSITION

SHEET NUMBER

20

OF 24



Date: 12/15/2021

Username:

Division:

Filename: 021_Concrete Barrier.dgn

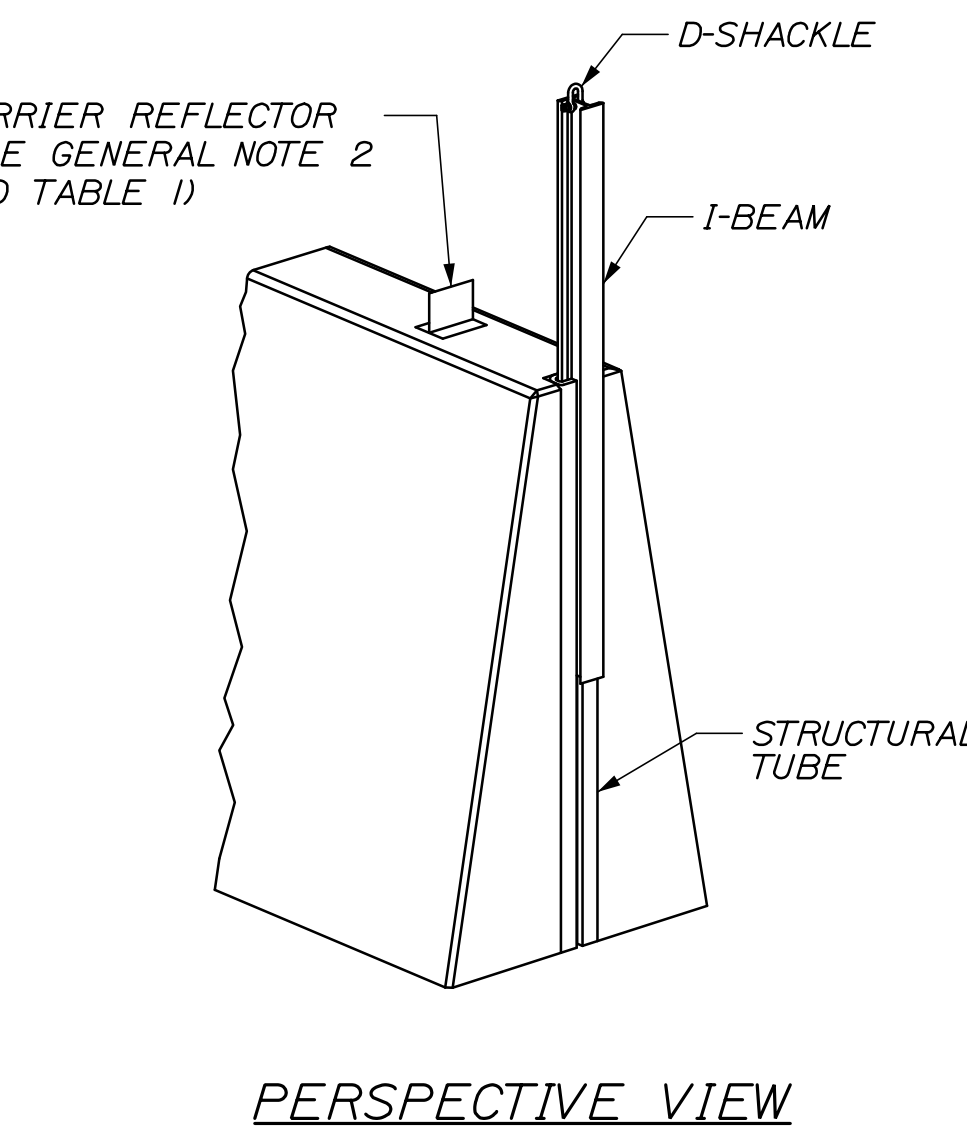
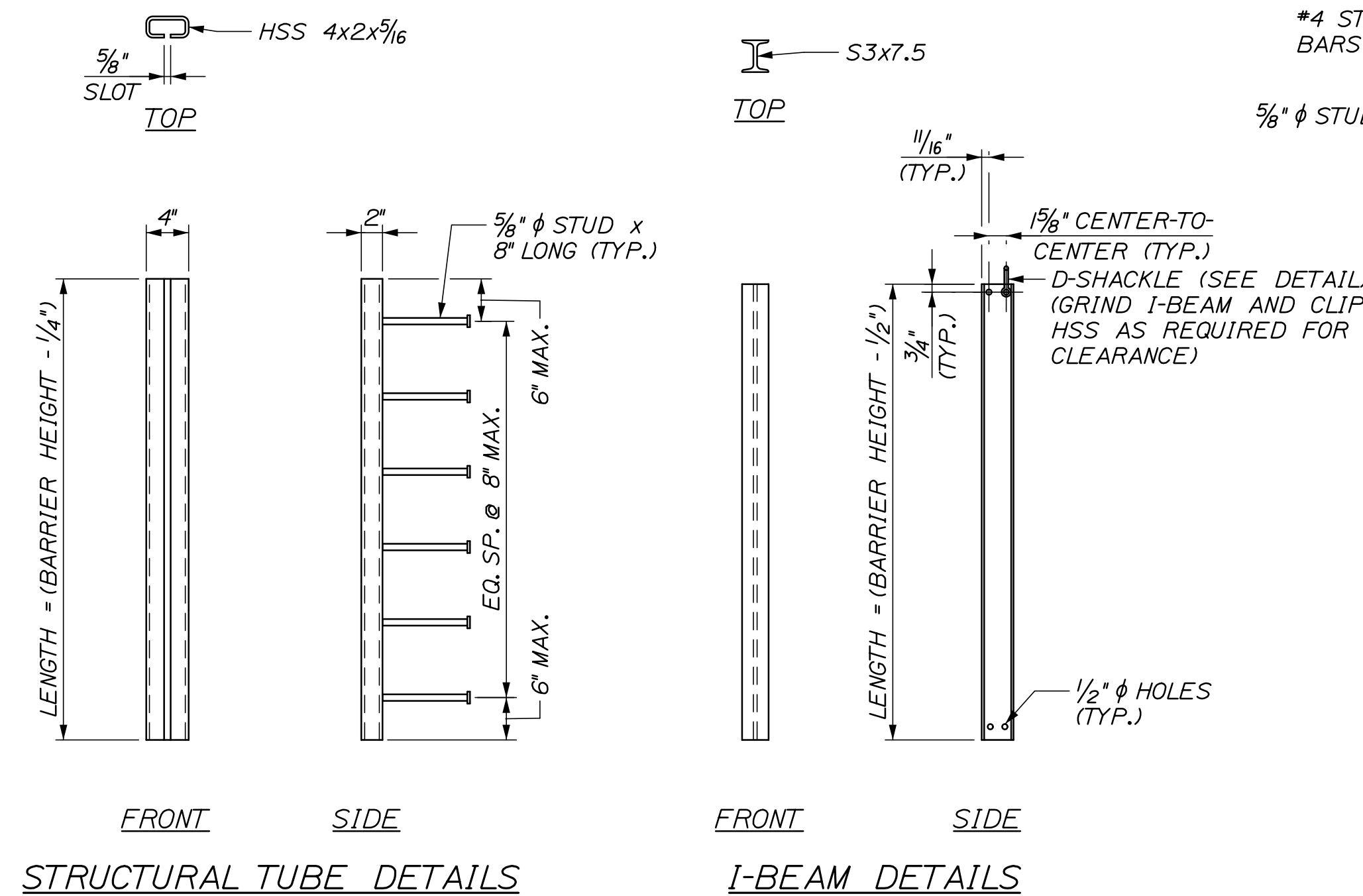
CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	12	19'-6"	
STIRRUPS	#4	29	8'-6"	
LOOP BAR	#6	2	8'-0"	

#6 LOOP BAR (TOP VIEW)

#4 STIRRUP BAR

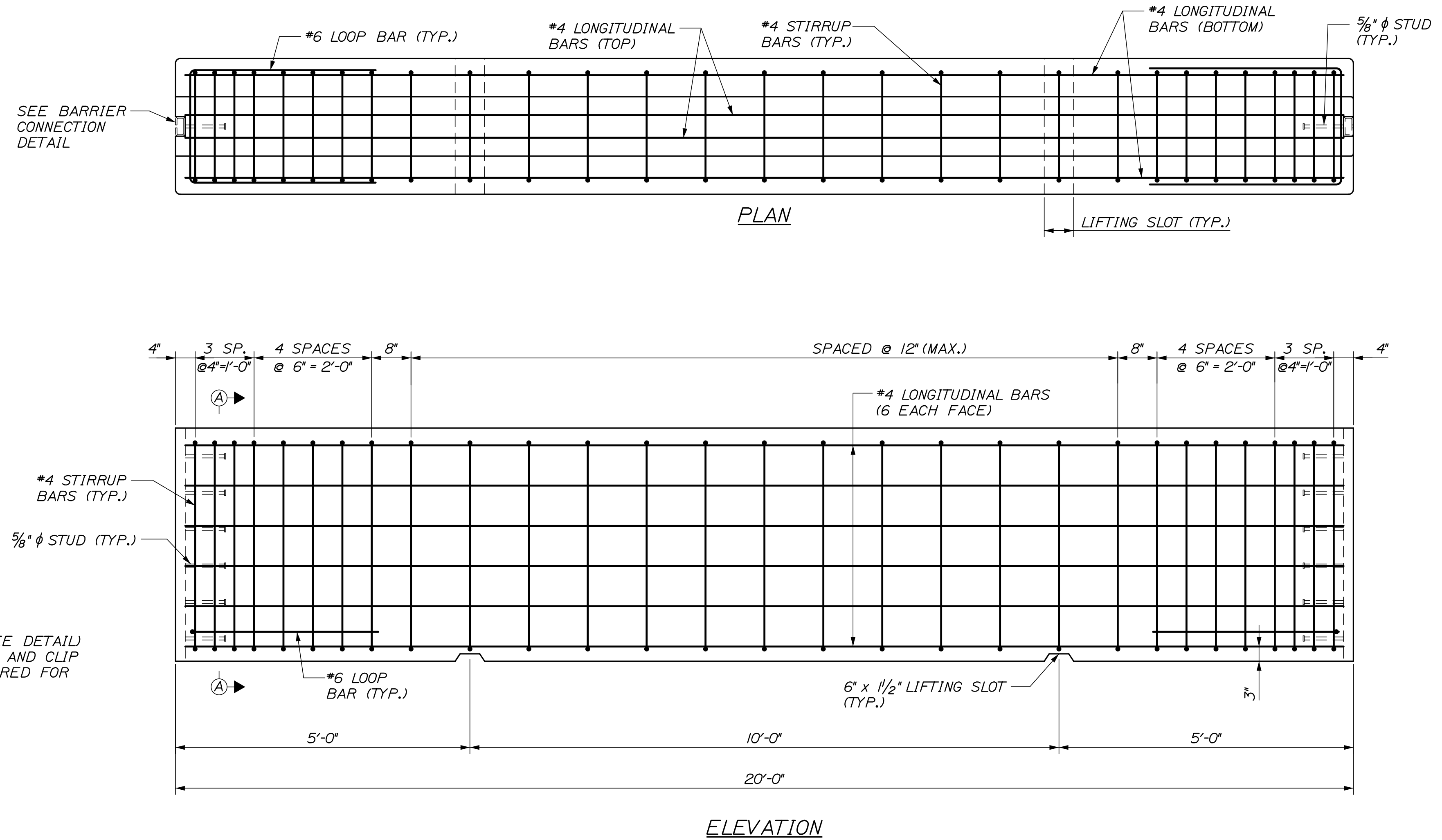
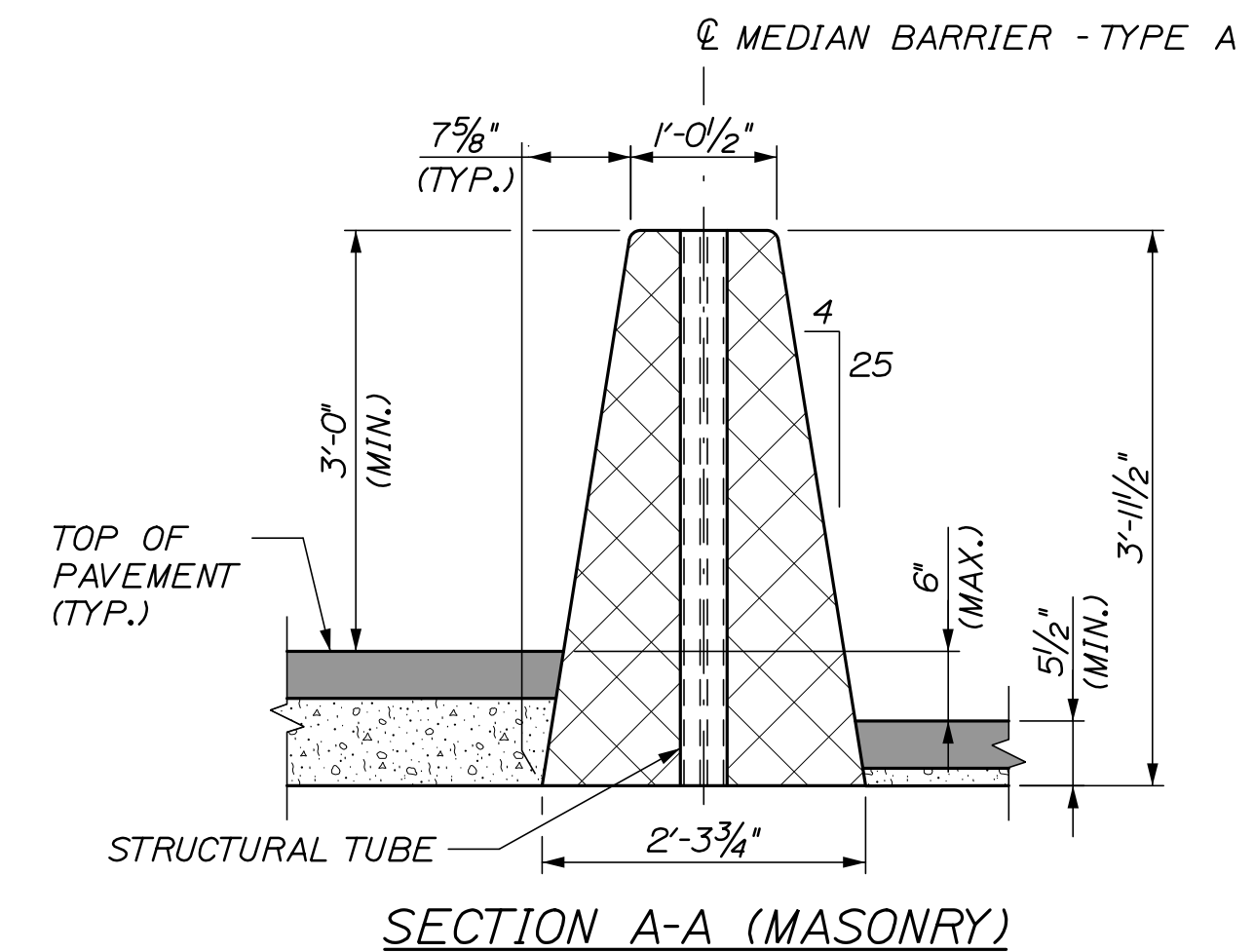
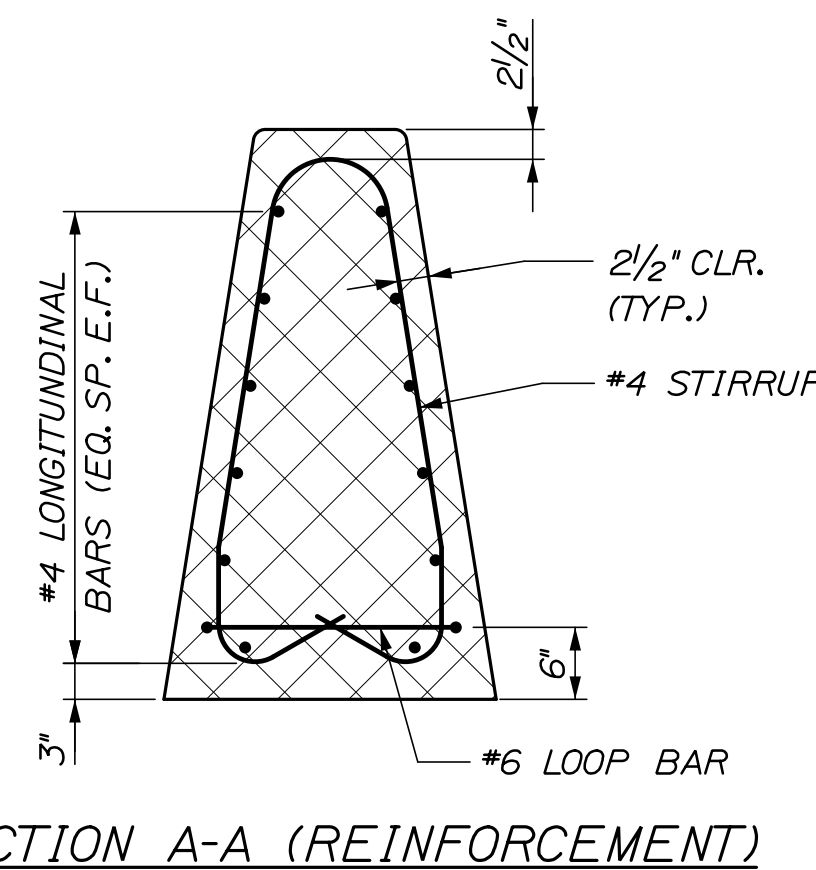
NOTES:

1. FOR BARRIER NOTES, SEE STRUCTURAL NOTES ON SHEET 2.



RADIUS OF HORIZONTAL CURVE	CL TO CL DISTANCE BETWEEN REFLECTORS
LESS THAN 2000'	LESS THAN 2000'
2000' TO 3000'	2000' TO 3000'
3000' TO 5000'	3000' TO 5000'
OVER 5000'	OVER 5000'
TANGENT AREA	TANGENT AREA

TABLE 1



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FEDERAL PROJECT 2239400

WIN 22394.00
HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	G. Standley	P. Bishop	12/21
CHECKED-REVIEWED	A. Stephens	T. Cole	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CONCRETE MEDIAN BARRIER
TYPE A

SHEET NUMBER

21

OF 24



Date: 12/15/2021

Username:

Division:

Filename: 022_Closure Placement.dgn

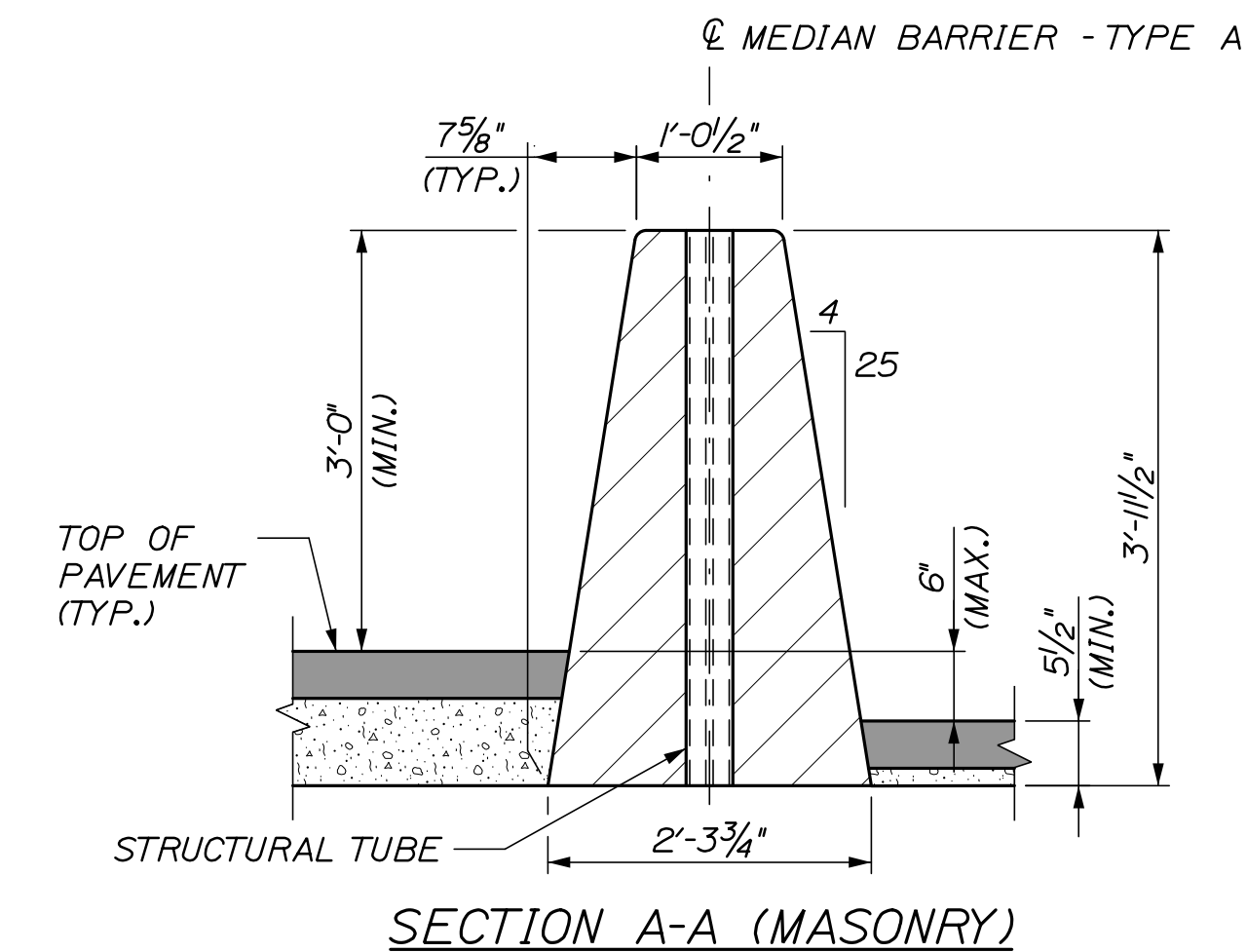
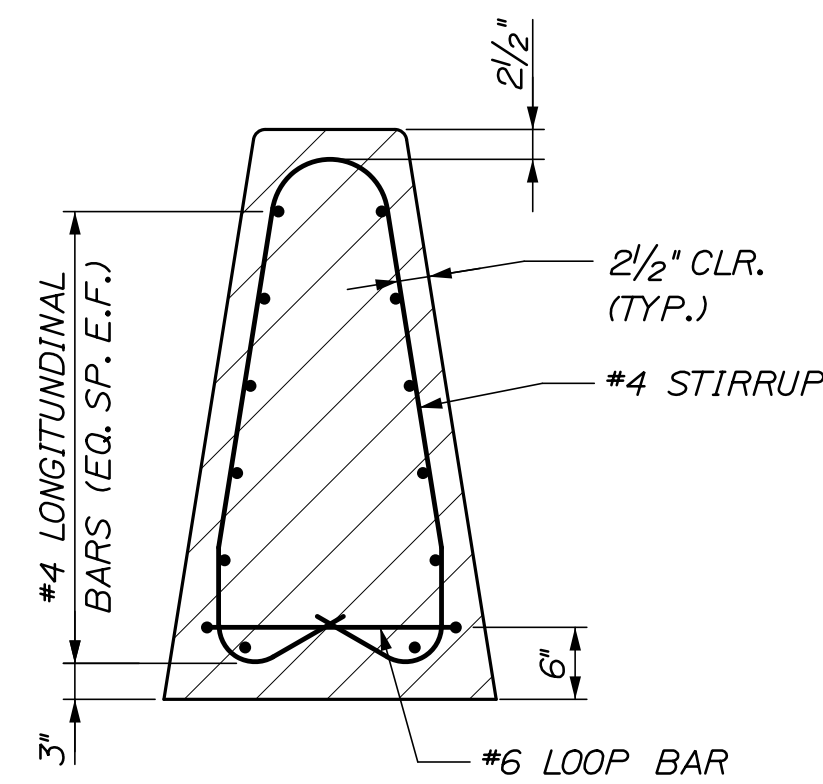
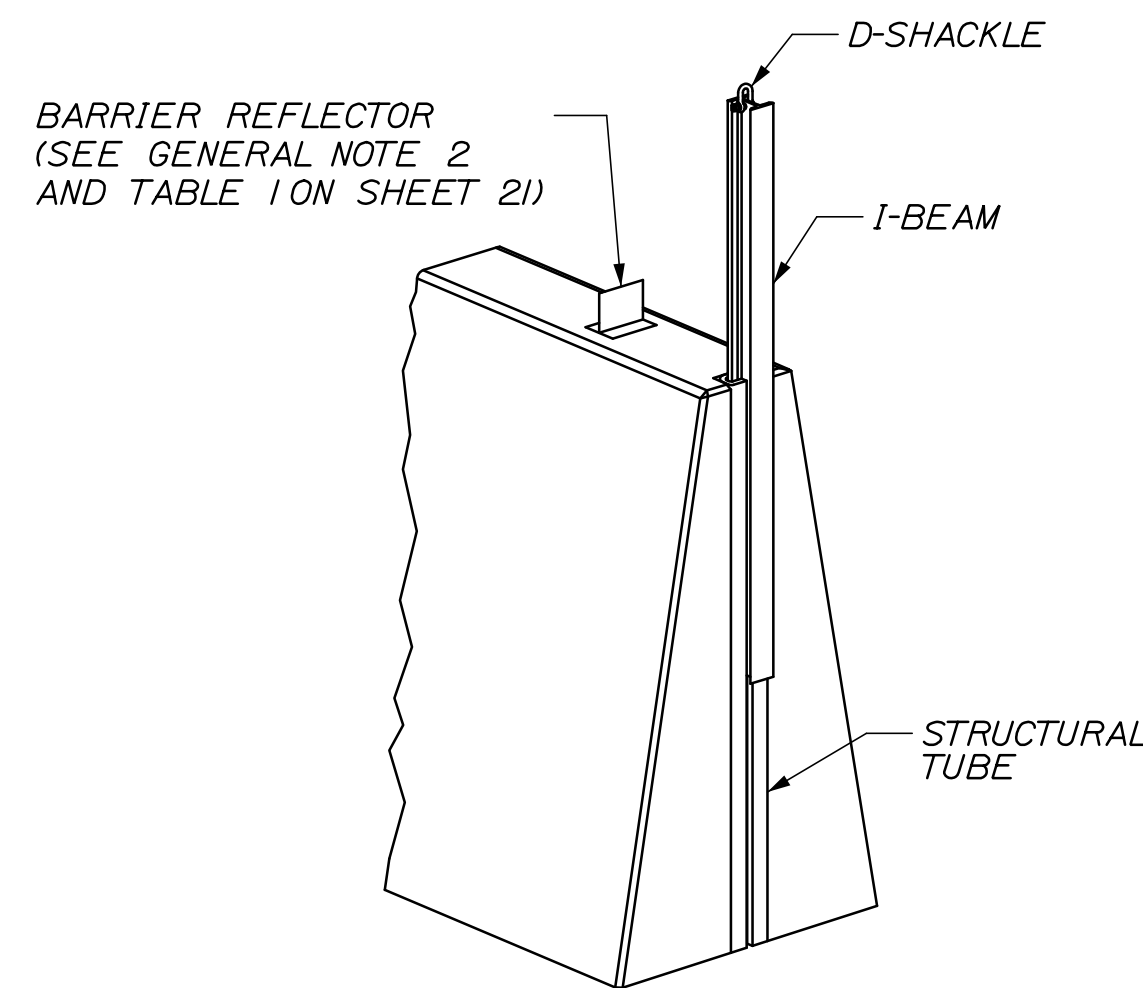
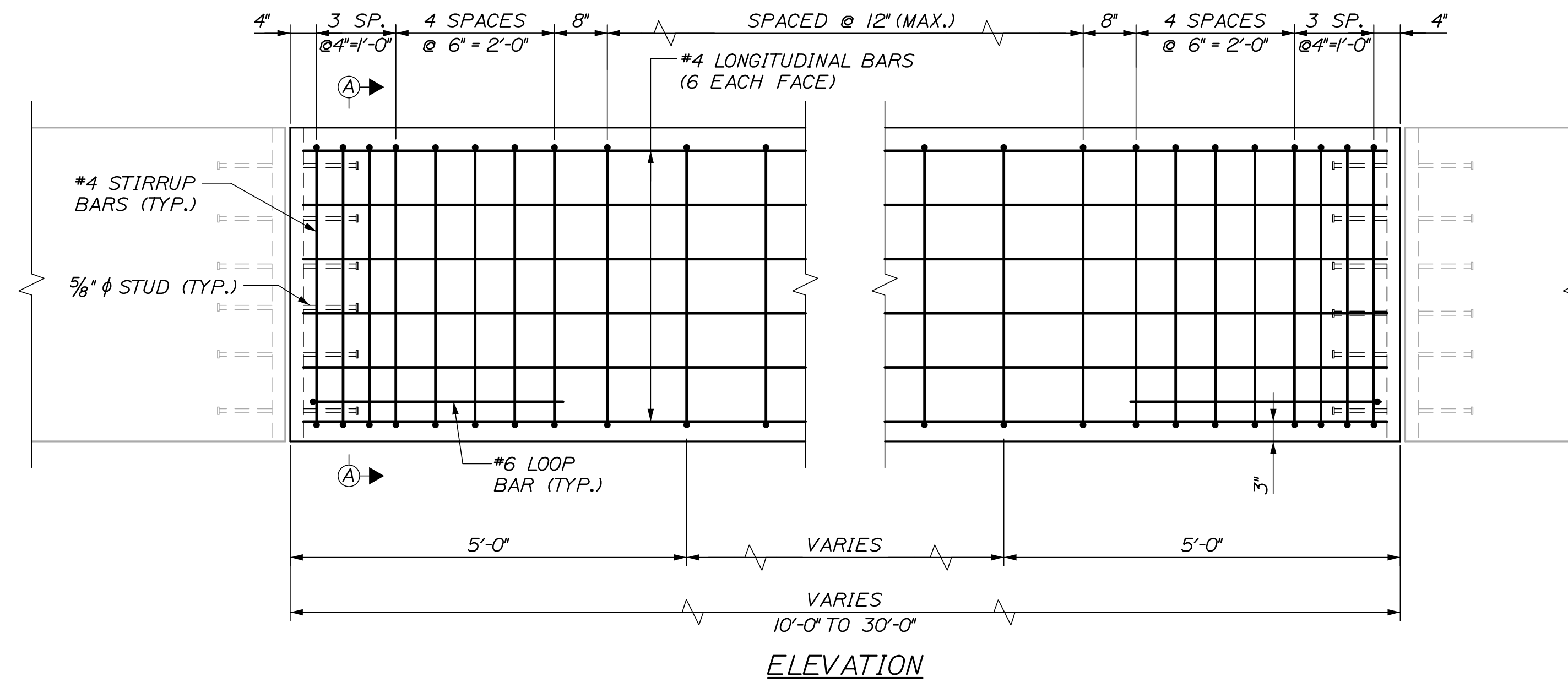
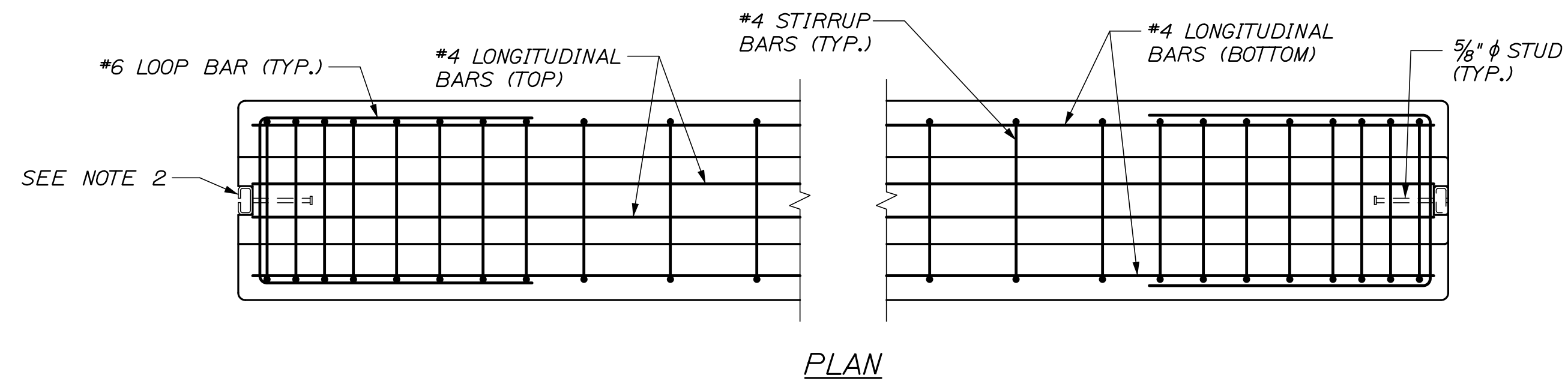
CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	12	VARIES	
STIRRUPS	#4	VARIES	8'-6"	
LOOP BAR	#6	2	8'-0"	

#6 LOOP BAR (TOP VIEW)

#4 STIRRUP BAR

NOTES:

- FOR BARRIER NOTES, SEE STRUCTURAL NOTES ON SHEET 2.
- FOR BARRIER CONNECTION DETAILS SEE SHEET 21.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FEDERAL PROJECT 2239400
WIN
22394.00
HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	G. Standley	P. Bishop	12/21
CHECKED-REVIEWED	A. Stephens	T. Cole	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE	P.E. NUMBER	DATE

PORTLAND
I-295 MEDIAN BARRIER
CONCRETE MEDIAN BARRIER
CLOSURE PLACEMENT

SHEET NUMBER
22
OF 24



Date: 12/15/2021

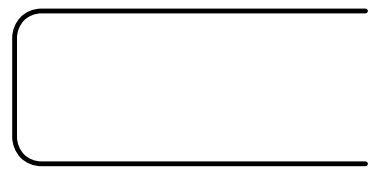
Username:

Division:

Filename: 023_Guardrail Transition.dgn

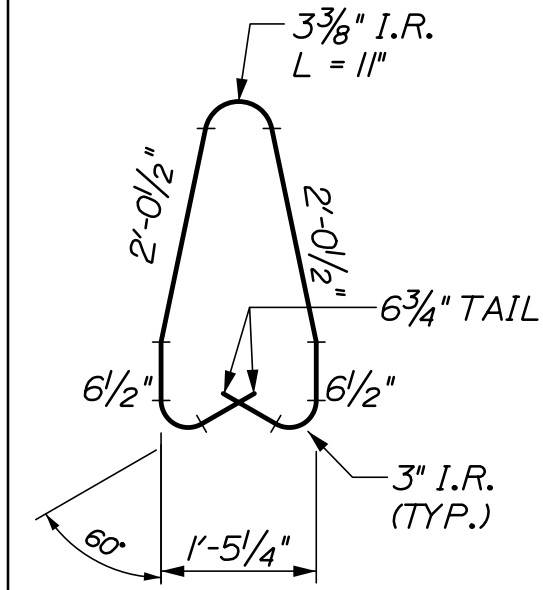
CONCRETE BARRIER REINFORCING SCHEDULE

DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	11	9'-7"	
STIRRUPS	#4	8	8'-6"	
STIRRUPS	#4	8	9'-7"	
STIRRUPS	#4	5	VARIES	
LOOP BAR	#6	2	VARIES	

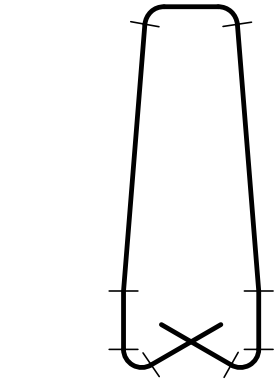


DIMENSIONS VARY

#6 LOOP BAR (TOP VIEW)

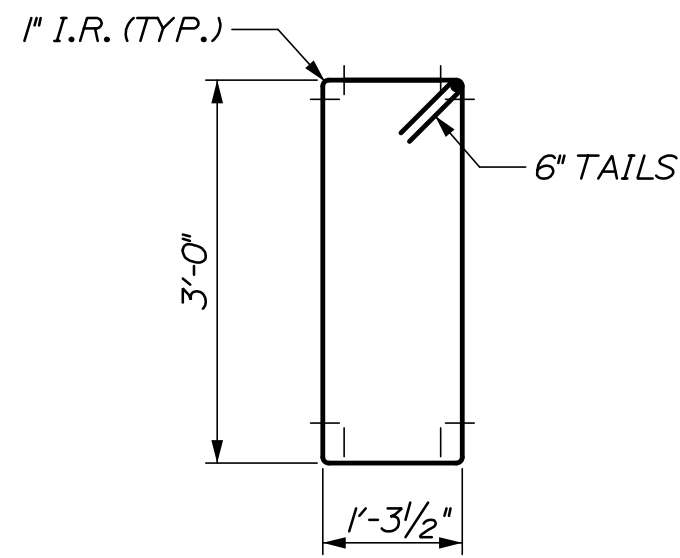


#4 STIRRUP BAR



DIMENSIONS VARY

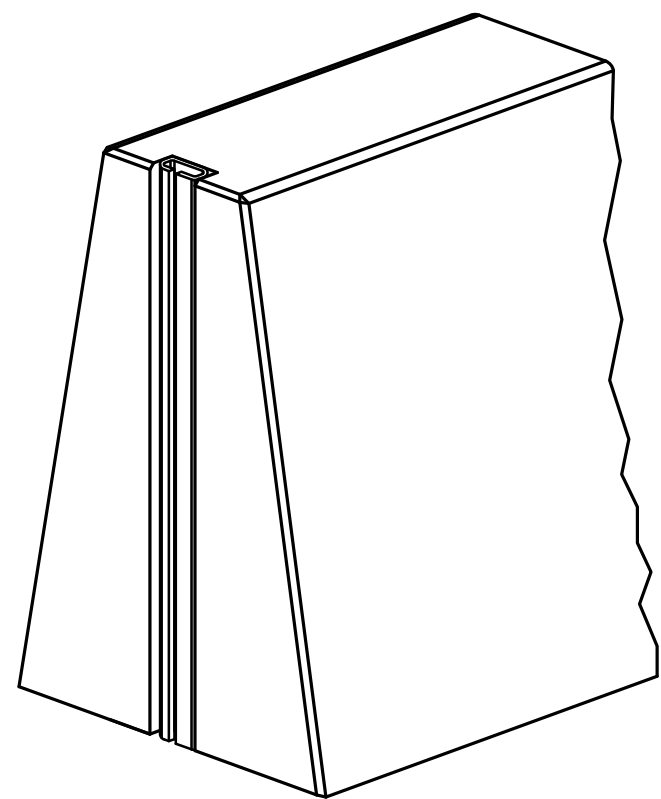
#4 STIRRUP BAR



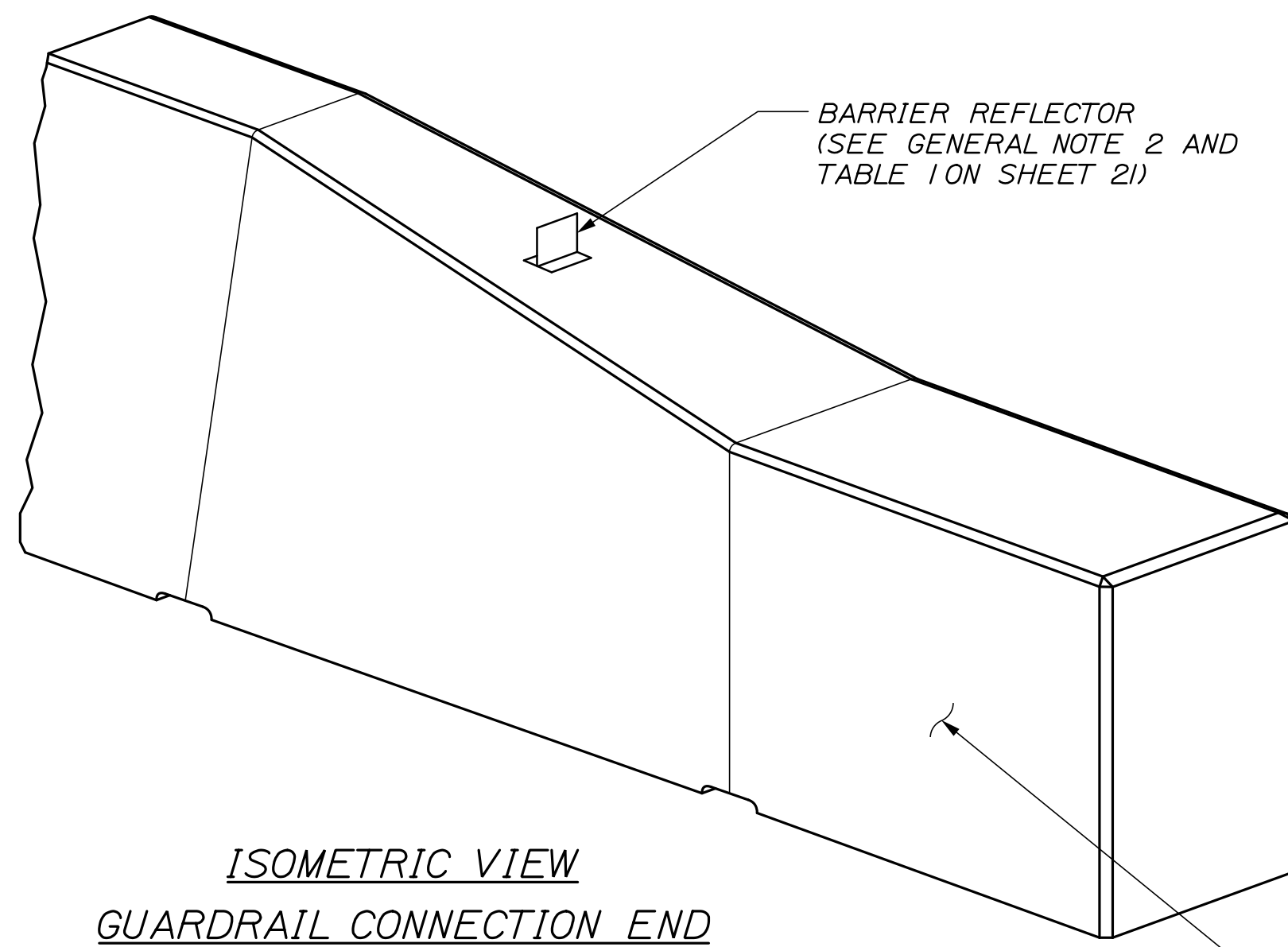
#4 STIRRUP BAR

NOTES:

- FOR BARRIER NOTES, GENERAL NOTES.
- FOR BARRIER CONNECTION DETAILS, SEE SHEET 21.
- INSTALLATION OF MEDIAN GUARDRAIL TRANSITION, GUARDRAIL CONNECTION HARDWARE, AND SETTING OF THE TRANSITION BARRIER SHALL BE COORDINATED TO ENSURE PROPER VERTICAL ALIGNMENT OF THE BARRIER AND GUARDRAIL.

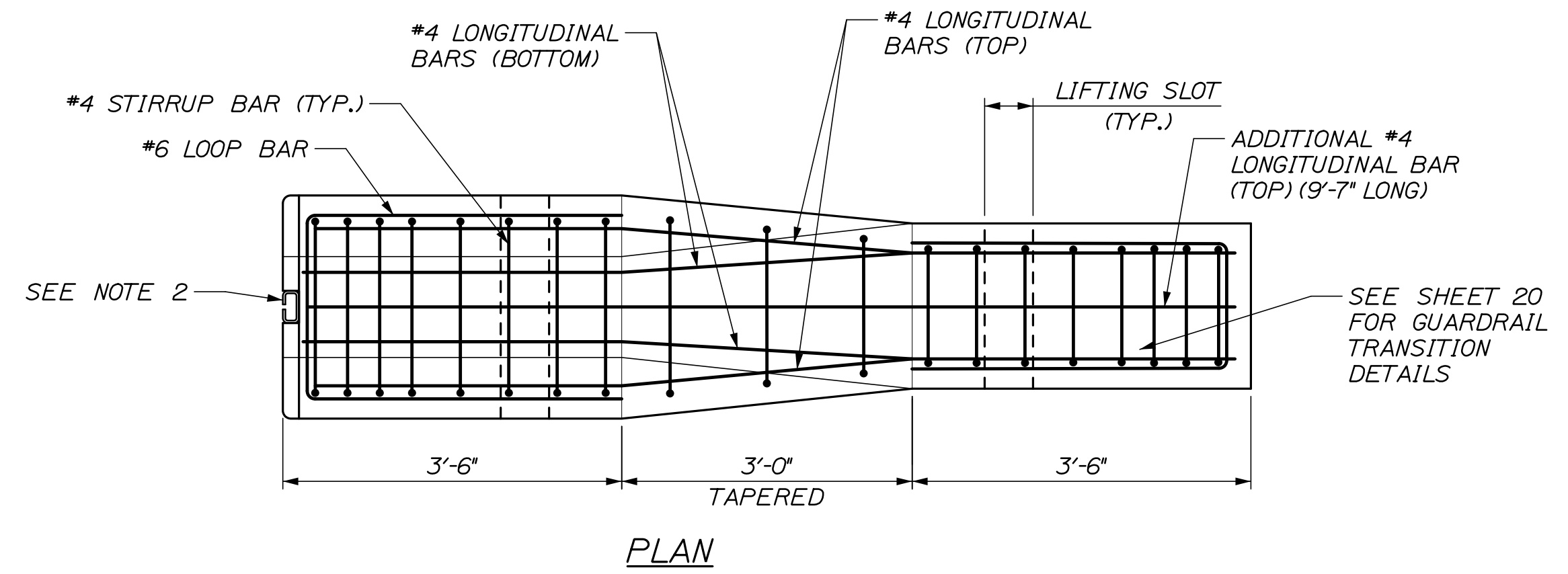


ISOMETRIC VIEW
MEDIAN BARRIER END

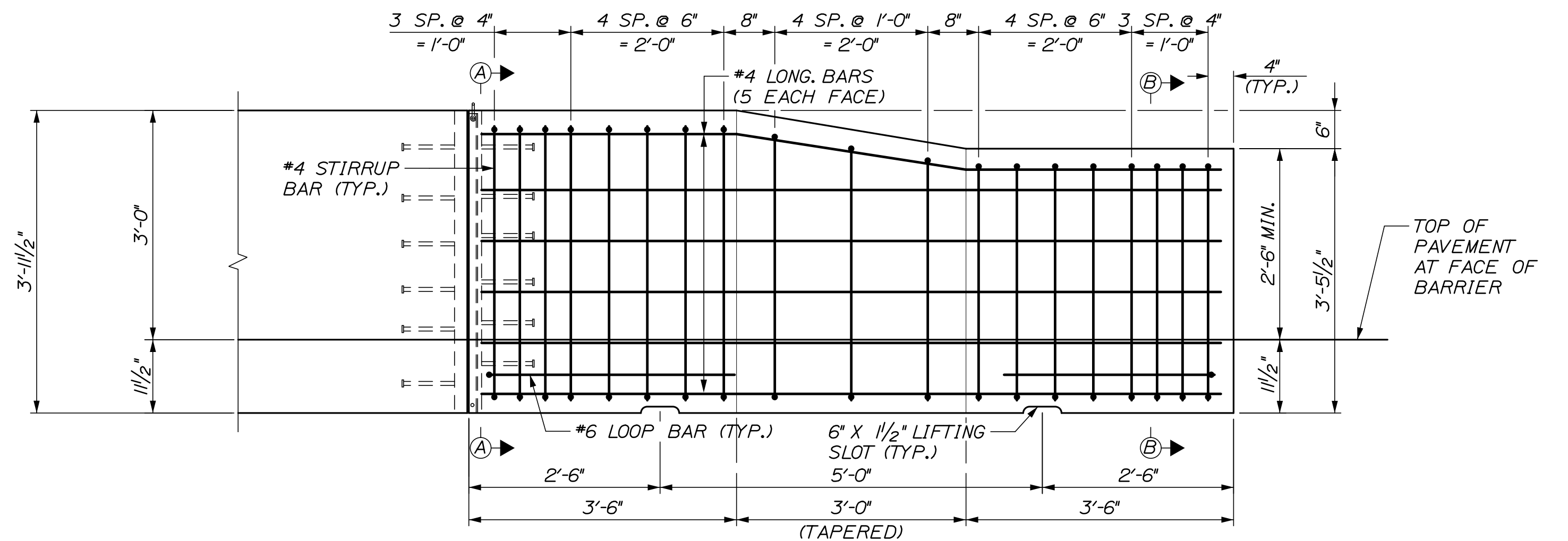


ISOMETRIC VIEW
GUARDRAIL CONNECTION END

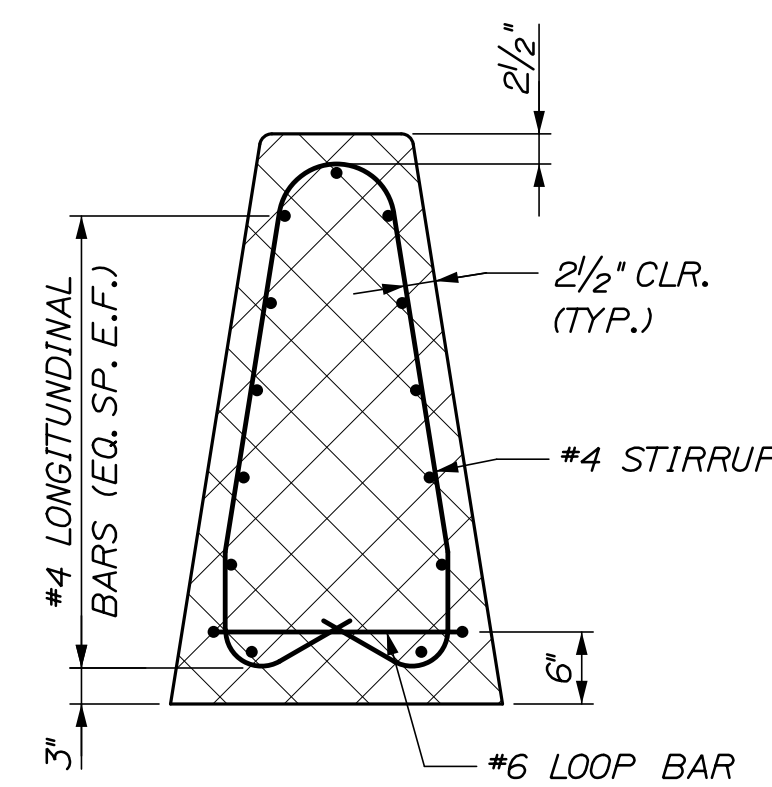
PREPARE FOR CONNECTION TO
GUARDRAIL TRANSITION, TYPE III
(MODIFIED) SEE SHEET 20



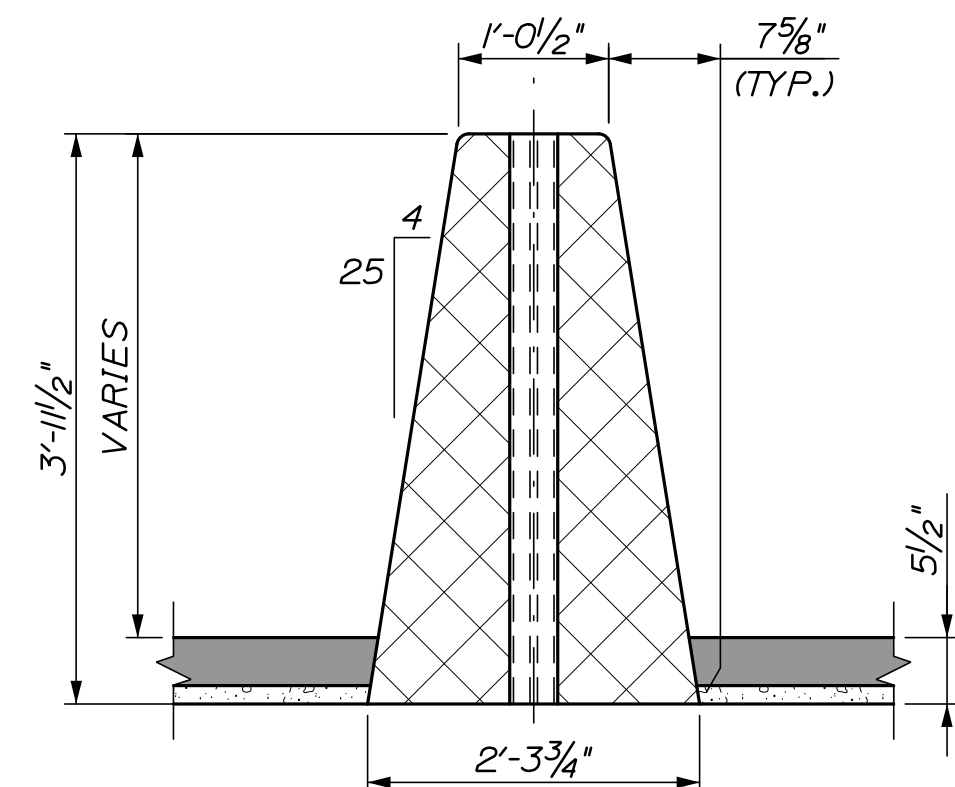
PLAN



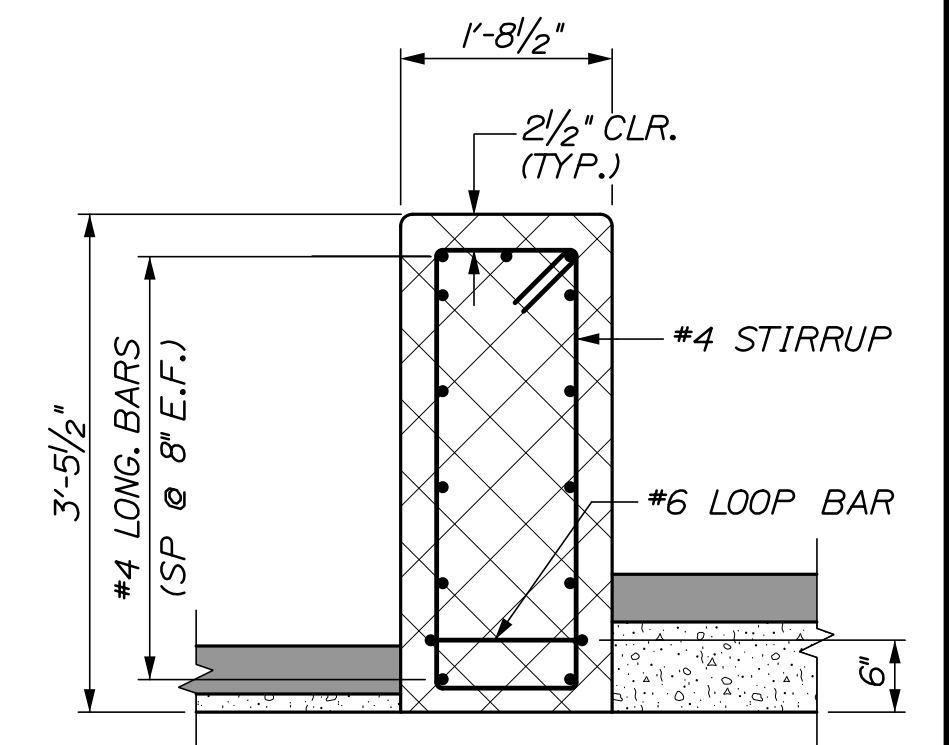
ELEVATION



SECTION A-A (REINFORCEMENT)



SECTION A-A (MASONRY)



SECTION B-B
(MASONRY &
REINFORCEMENT)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT 2239400

WIN 22394.00
HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	G. Standley	P. Bishop	12/21
CHECKED-REVIEWED	A. Stephens	T. Cote	12/21
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER

CONCRETE MEDIAN BARRIER
GUARDRAIL TRANS. BARRIER

SHEET NUMBER

23

OF 24

HNTB

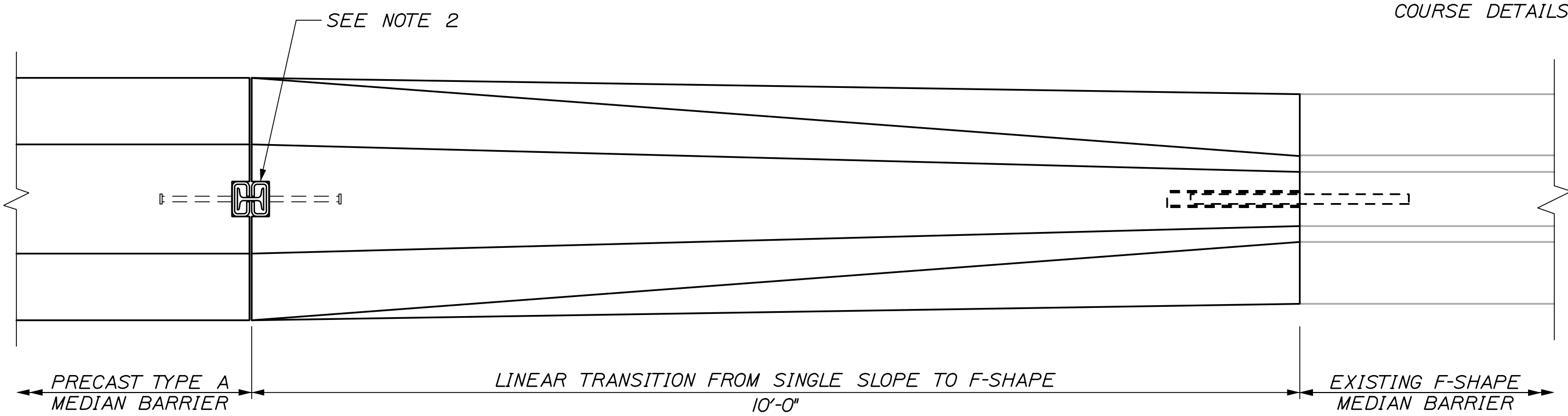
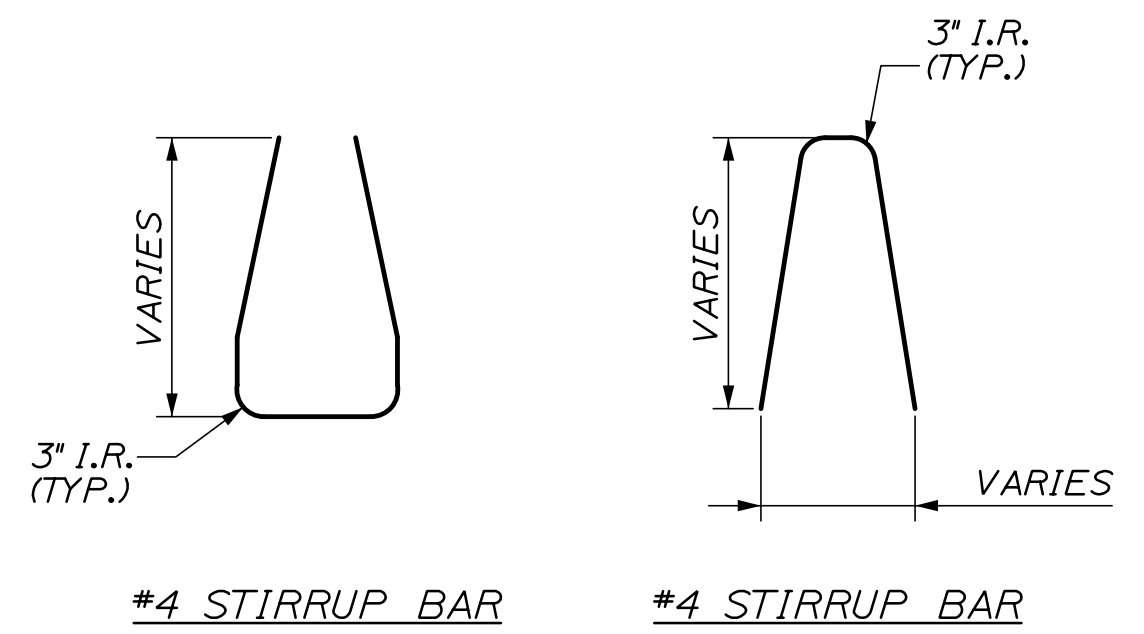
Date: 12/15/2021

Username:

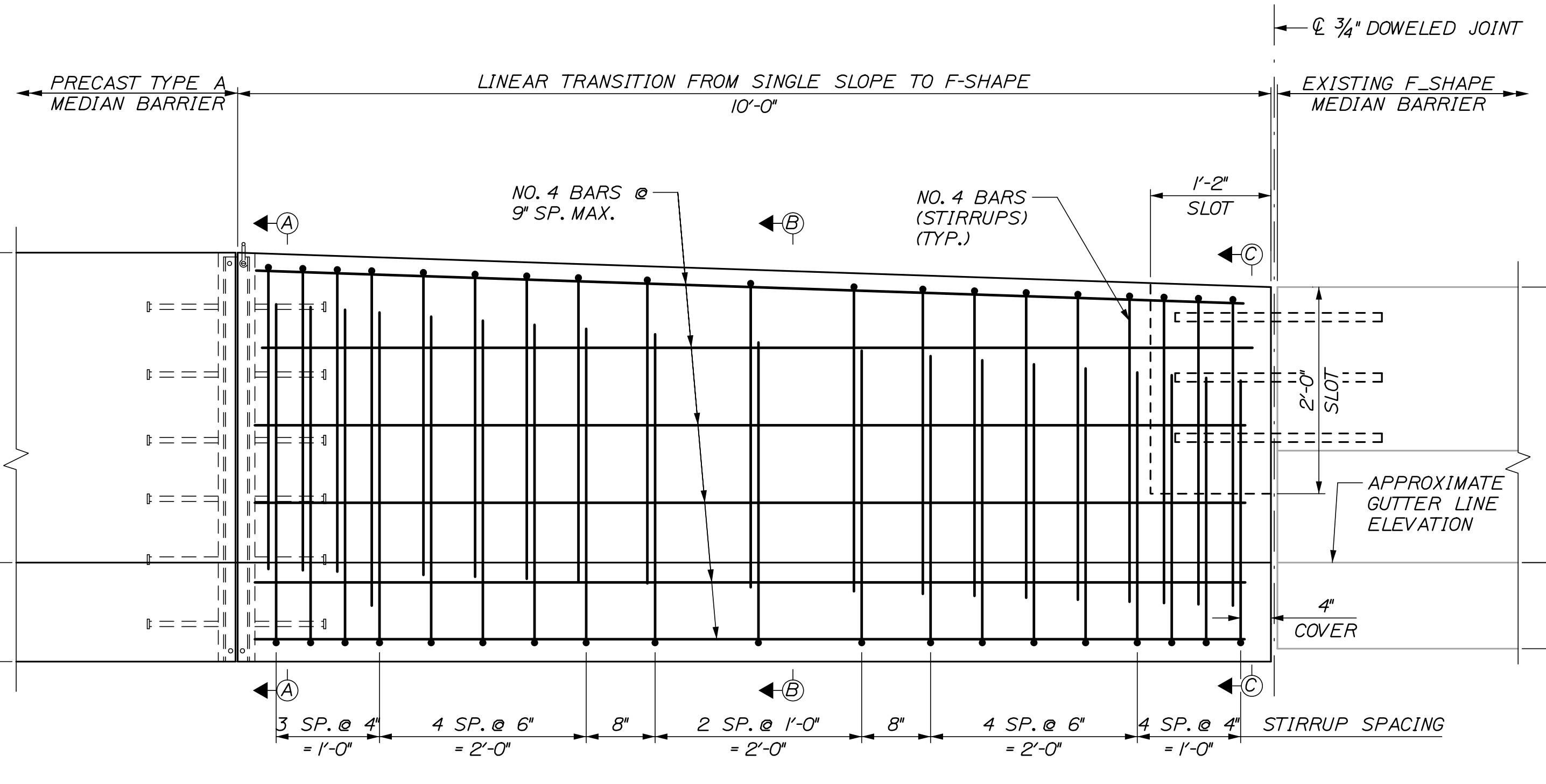
Division:

Filename: 024_Bridge F-Shape Transition.dgn

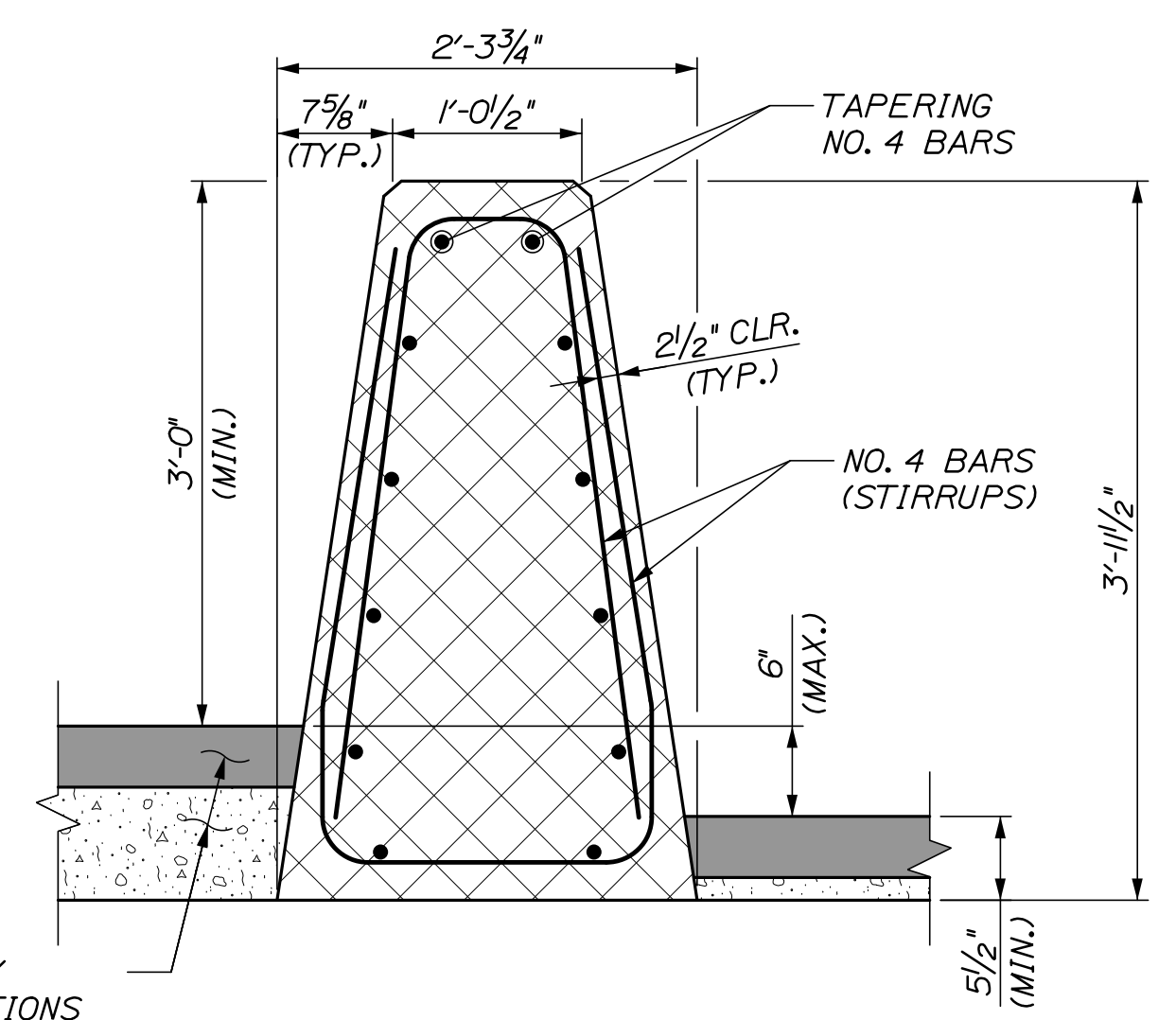
CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	12	9'-7"	
STIRRUPS	#4	19	VARIES	
STIRRUPS	#4	19	VARIES	



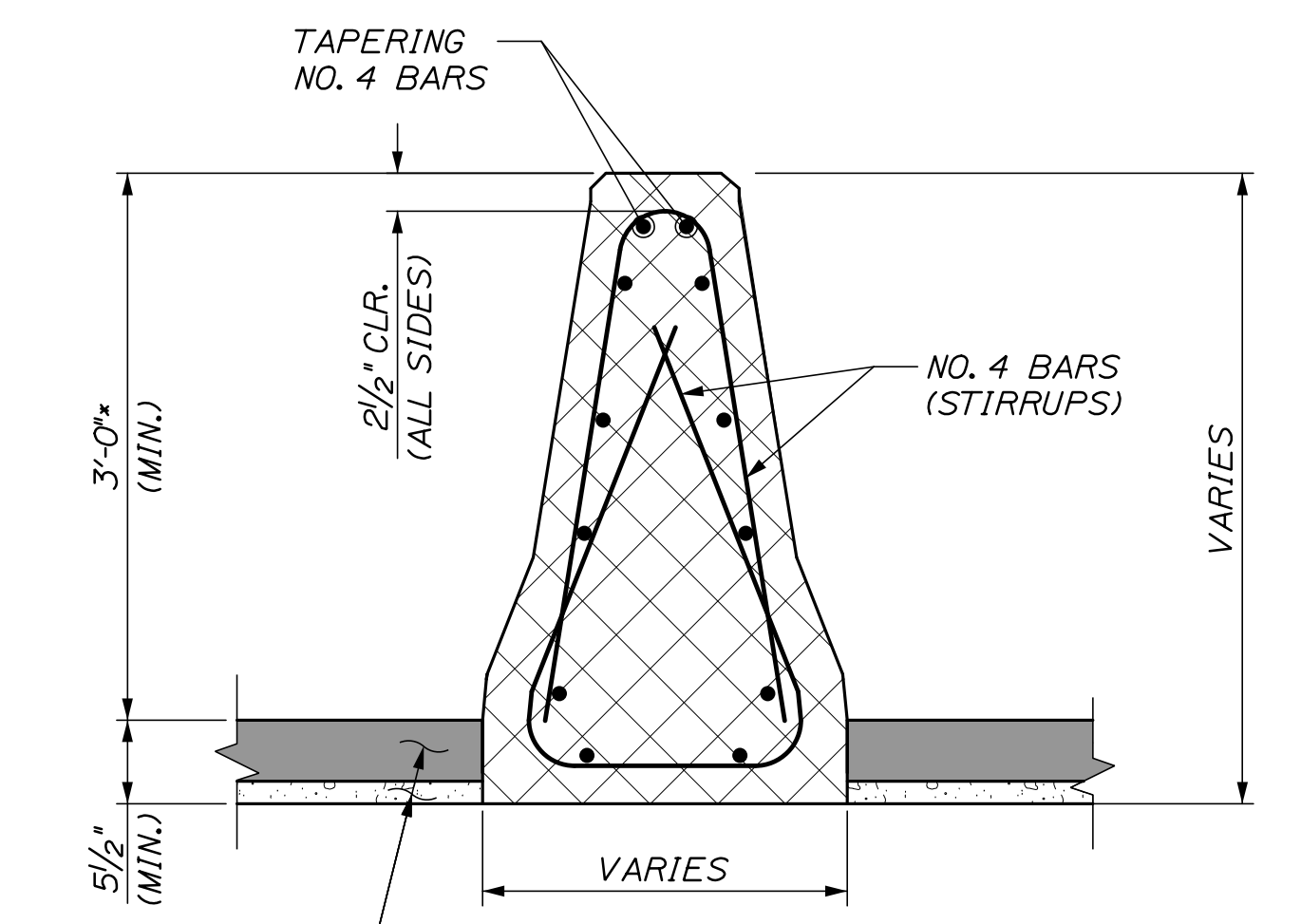
PLAN



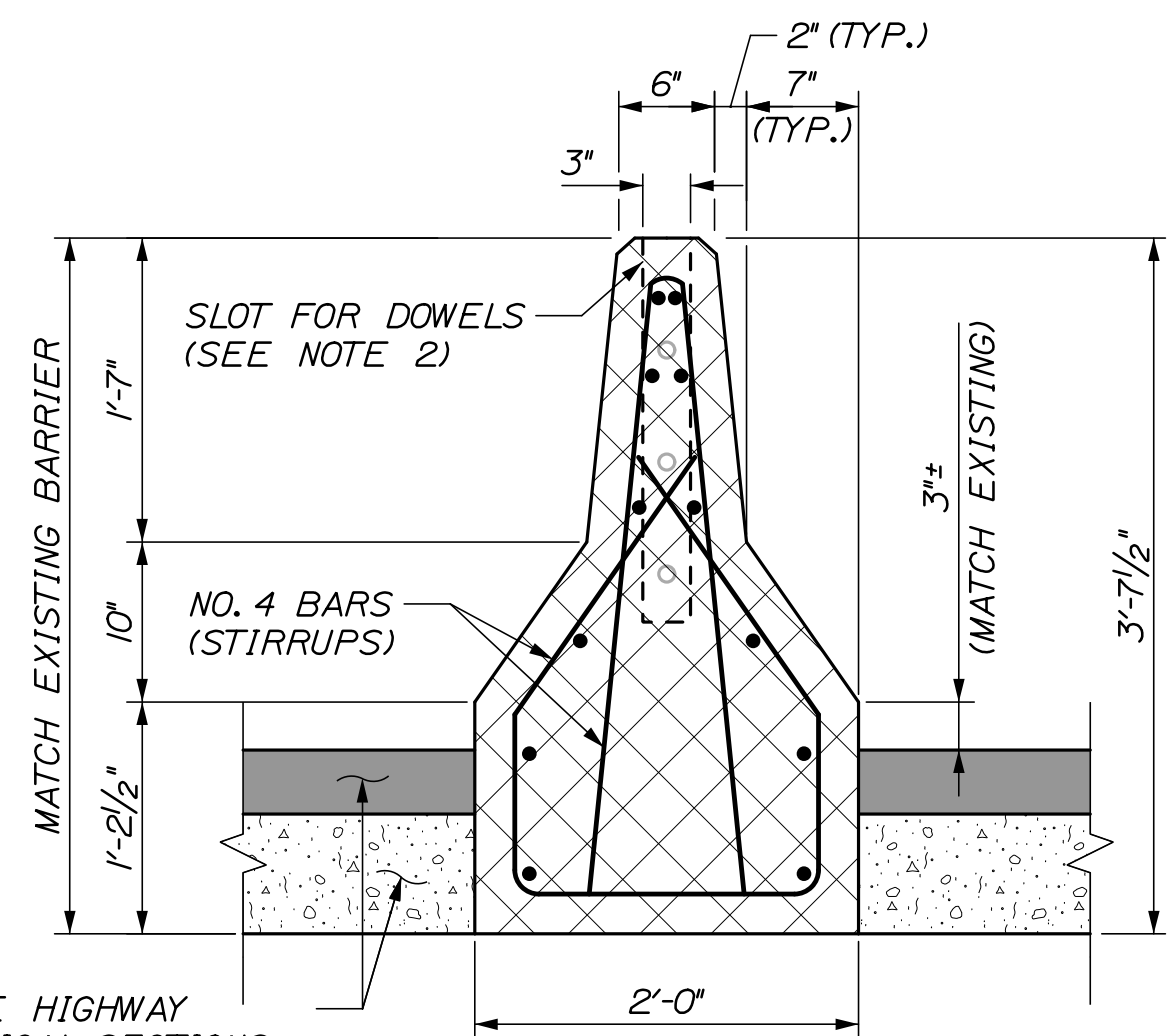
ELEVATION



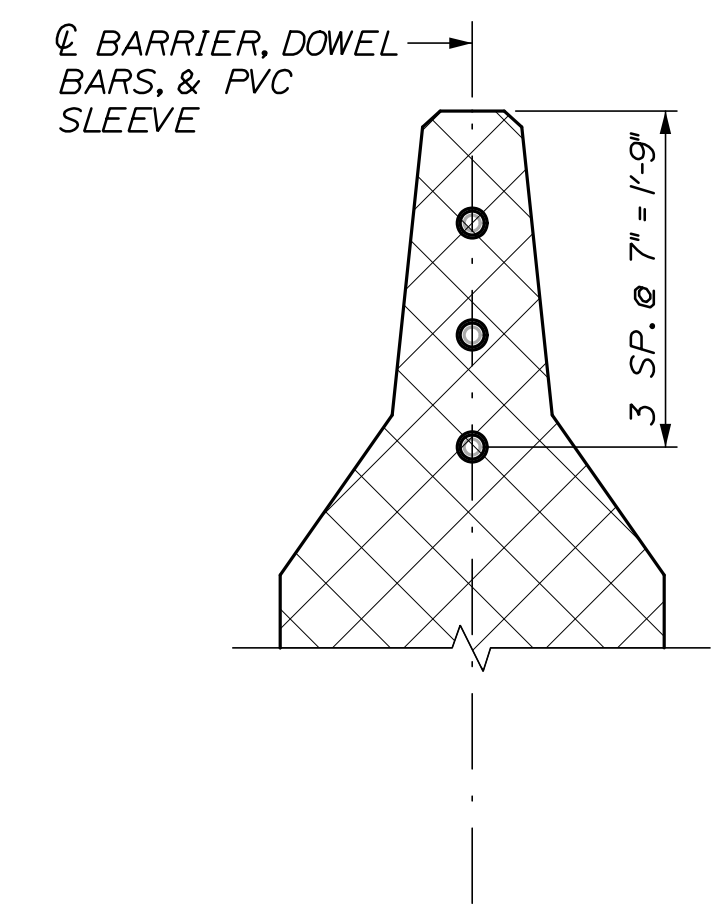
SECTION A-A
MATCH MEDIAN BARRIER



SECTION B-B
INTERMEDIATE SECTION
OF LINEAR TRANSITION



SECTION C-C
MATCH EXISTING
F-SHAPE SECTION



SECTION - F-SHAPE
DOWEL PLACEMENT

SEE HIGHWAY
TYPICAL SECTIONS
FOR PAVEMENT AND
AGGREGATE BASE
COURSE DETAILS

SEE HIGHWAY
TYPICAL SECTIONS
FOR PAVEMENT AND
AGGREGATE BASE
COURSE DETAILS

SEE HIGHWAY
TYPICAL SECTIONS
FOR PAVEMENT AND
AGGREGATE BASE
COURSE DETAILS

- NOTES:**
1. GROUT SLOT WITH HIGH STRENGTH GROUT LISTED ON MAINEDOT QUALIFIED PRODUCTS LIST OF GROUT MATERIALS.
 2. FOR BARRIER CONNECTION DETAILS, SEE SHEET 21.
 3. CONTRACTOR SHALL VERIFY EXISTING MEDIAN BARRIER DIMENSIONS PRIOR TO DEVELOPING FABRICATION DRAWINGS. DIMENSIONS OF F-SHAPE SECTION ARE NOT GUARANTEED TO BE CORRECT. SEE GENERAL NOTE 1 ON SHEET 2.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FEDERAL PROJECT 2239400
WIN
22394.00
HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
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CHECKED-REVIEWED	A. Stephens	T. Cote	12/21
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND
I-295 MEDIAN BARRIER
CONCRETE MEDIAN BARRIER
BRIDGE F-SHAPE TRANSITION

SHEET NUMBER

24

OF 24

