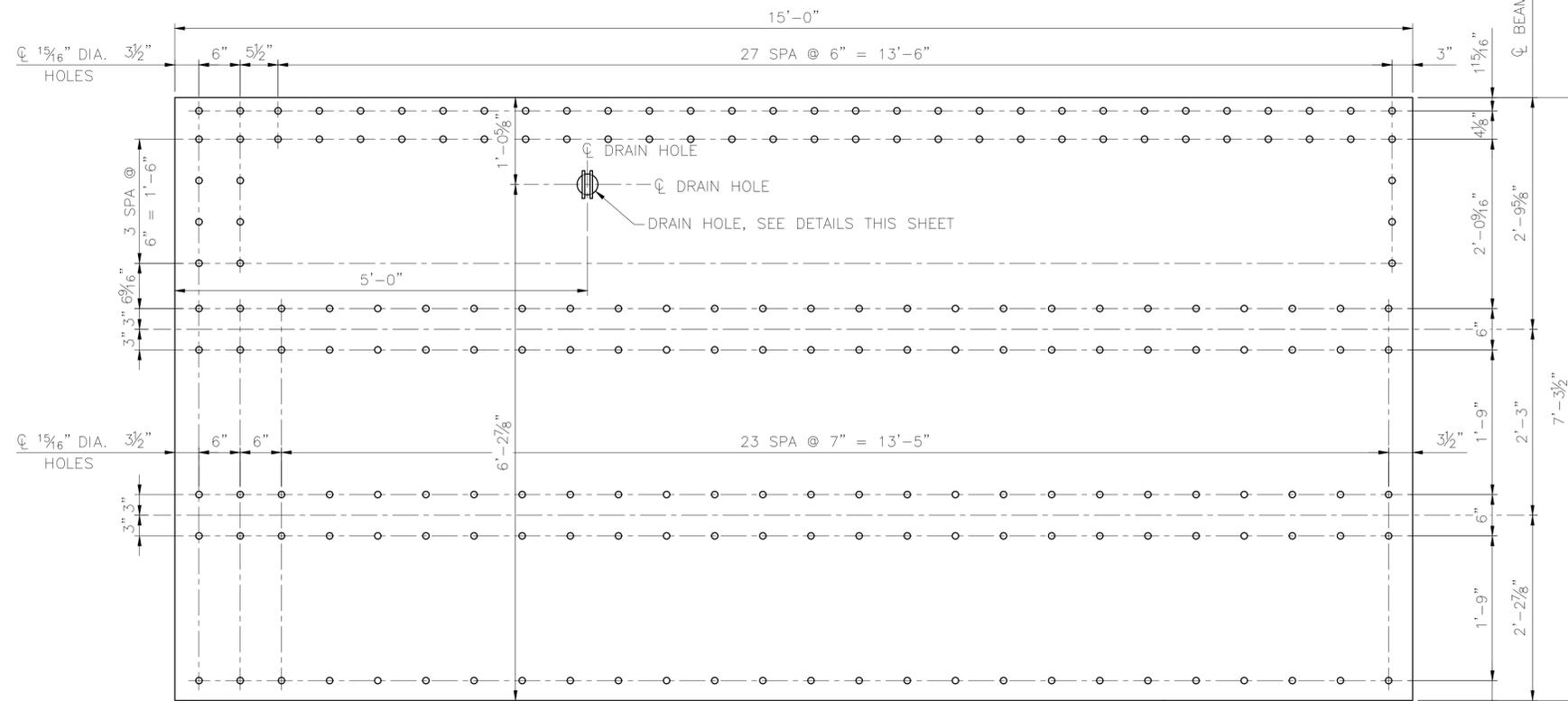
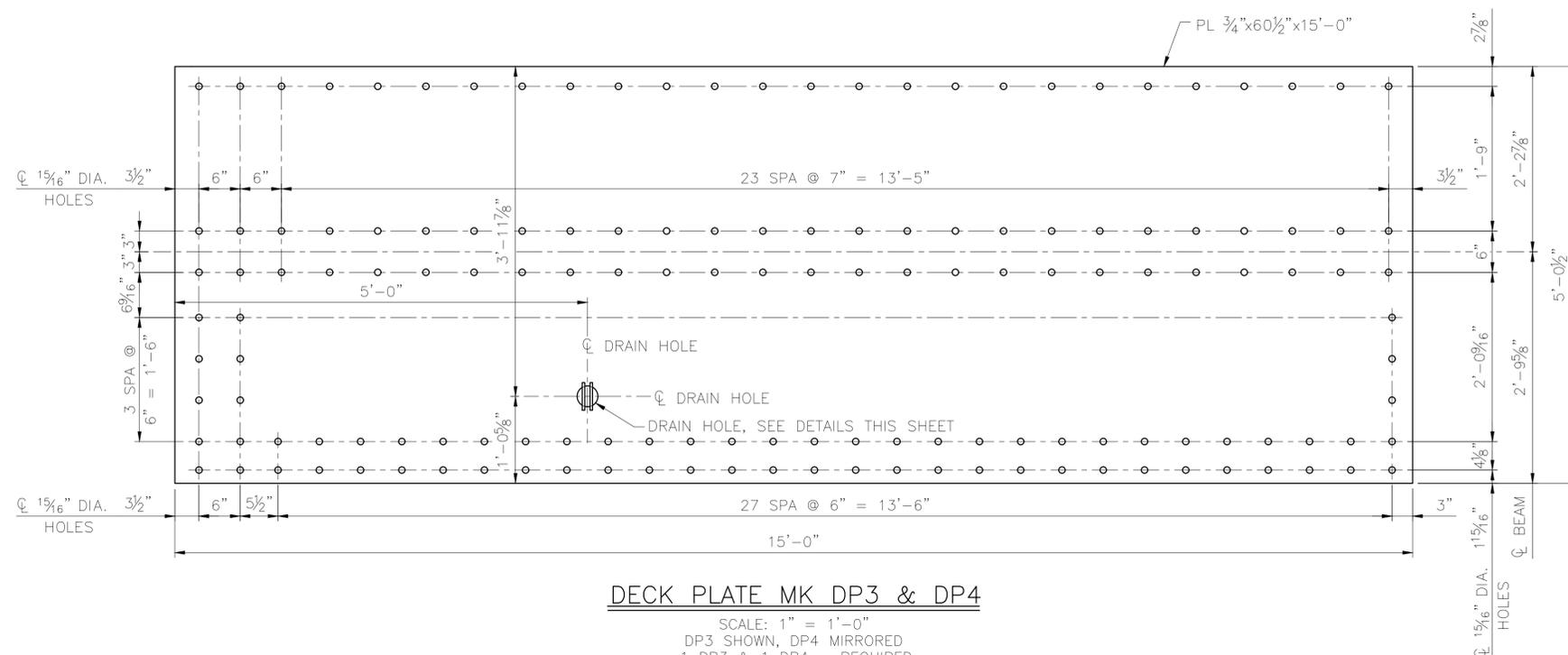


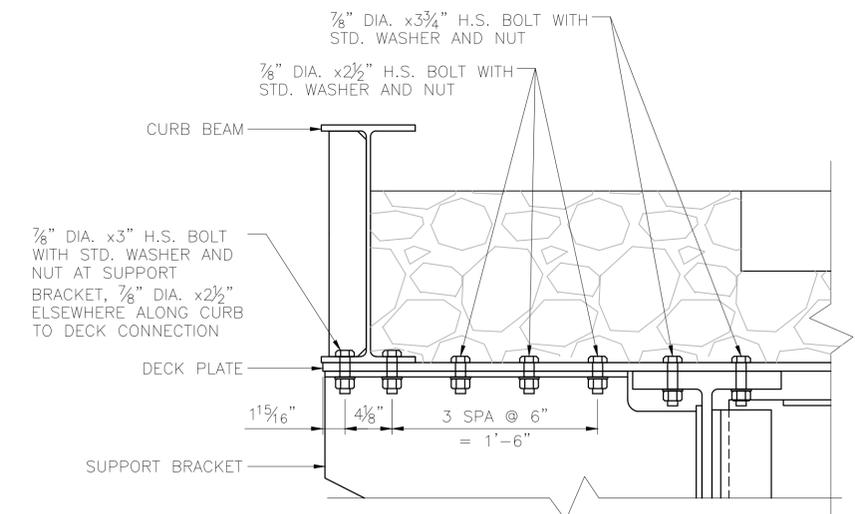
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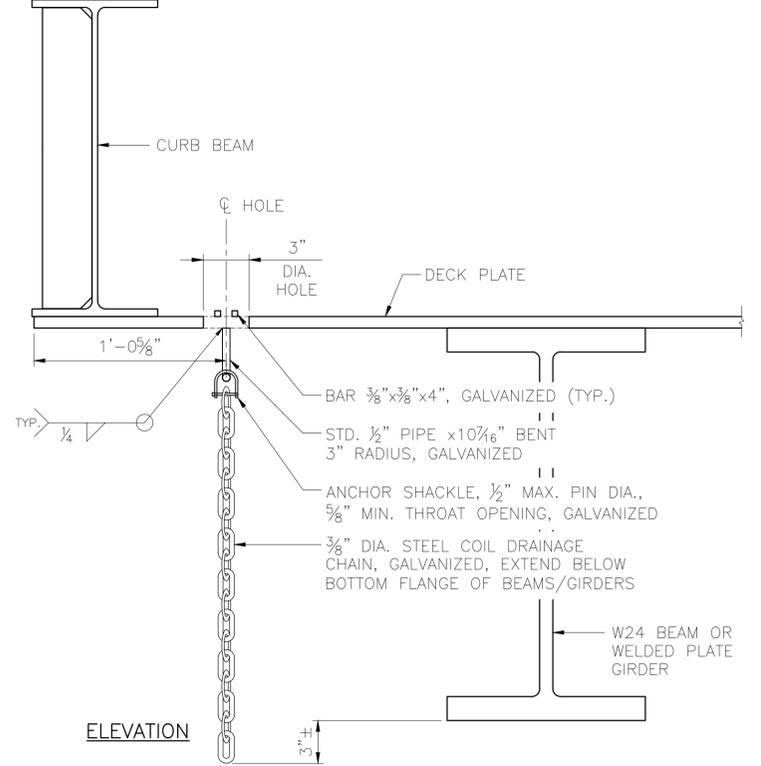
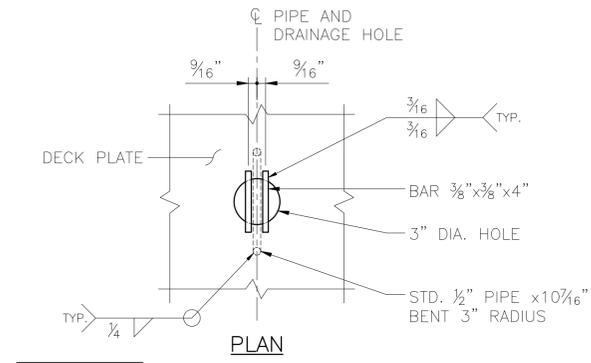
**DECK PLATE MK DP1 & DP2**  
 SCALE: 1" = 1'-0"  
 DP1 SHOWN, DP2 MIRRORED  
 1 DP1 & 1 DP2 ~ REQUIRED  
 ESTIMATED LIFTING WEIGHT: 3,350 LBS



**DECK PLATE MK DP3 & DP4**  
 SCALE: 1" = 1'-0"  
 DP3 SHOWN, DP4 MIRRORED  
 1 DP3 & 1 DP4 ~ REQUIRED  
 ESTIMATED LIFTING WEIGHT: 2,316 LBS



**CURB TO DECK DETAIL 30' SBM SPAN**  
 SCALE: 1 1/2" = 1'-0"



**DECK DRAIN DETAILS**  
 SCALE: 2" = 1'-0"

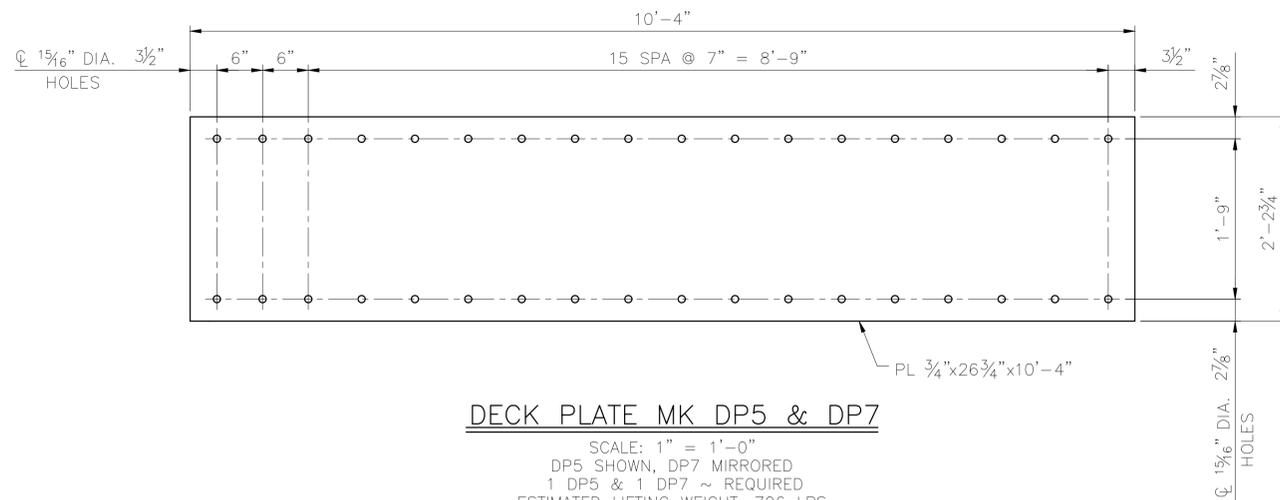
DESIGNED BY: ML  
 CHECKED BY: KK  
 DRAFTED BY: MEM



CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500  
 PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3  
 SHEET TITLE: STEEL DECK DETAILS (1 OF 4)

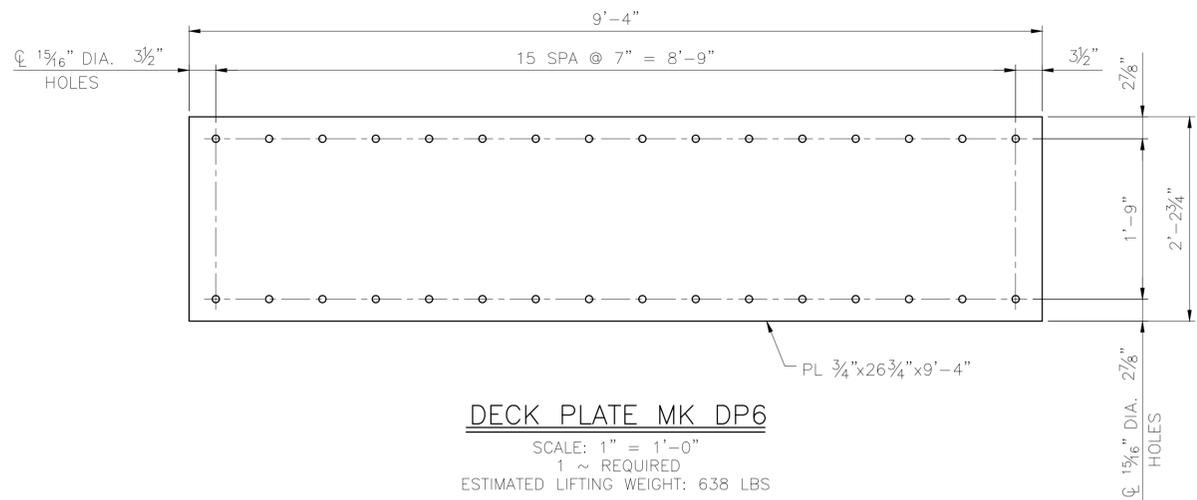
AFE NO. 11228  
 YEAR 2025  
 SHEET 12 OF 22

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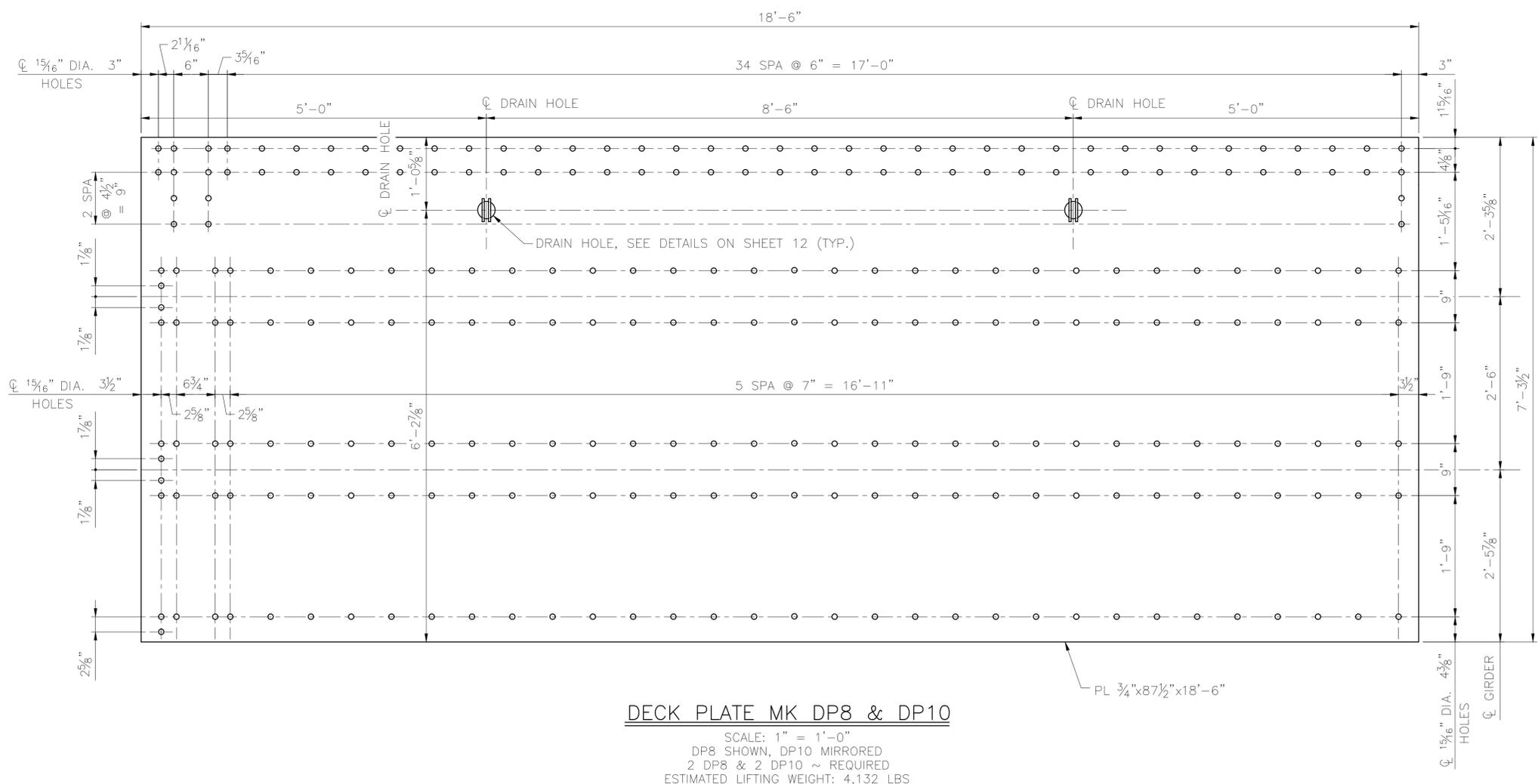
**DECK PLATE MK DP5 & DP7**

SCALE: 1" = 1'-0"  
 DP5 SHOWN, DP7 MIRRORED  
 1 DP5 & 1 DP7 ~ REQUIRED  
 ESTIMATED LIFTING WEIGHT: 706 LBS



**DECK PLATE MK DP6**

SCALE: 1" = 1'-0"  
 1 ~ REQUIRED  
 ESTIMATED LIFTING WEIGHT: 638 LBS



**DECK PLATE MK DP8 & DP10**

SCALE: 1" = 1'-0"  
 DP8 SHOWN, DP10 MIRRORED  
 2 DP8 & 2 DP10 ~ REQUIRED  
 ESTIMATED LIFTING WEIGHT: 4,132 LBS

DESIGNED BY:	ML
CHECKED BY:	KK
DRAFTED BY:	MEM

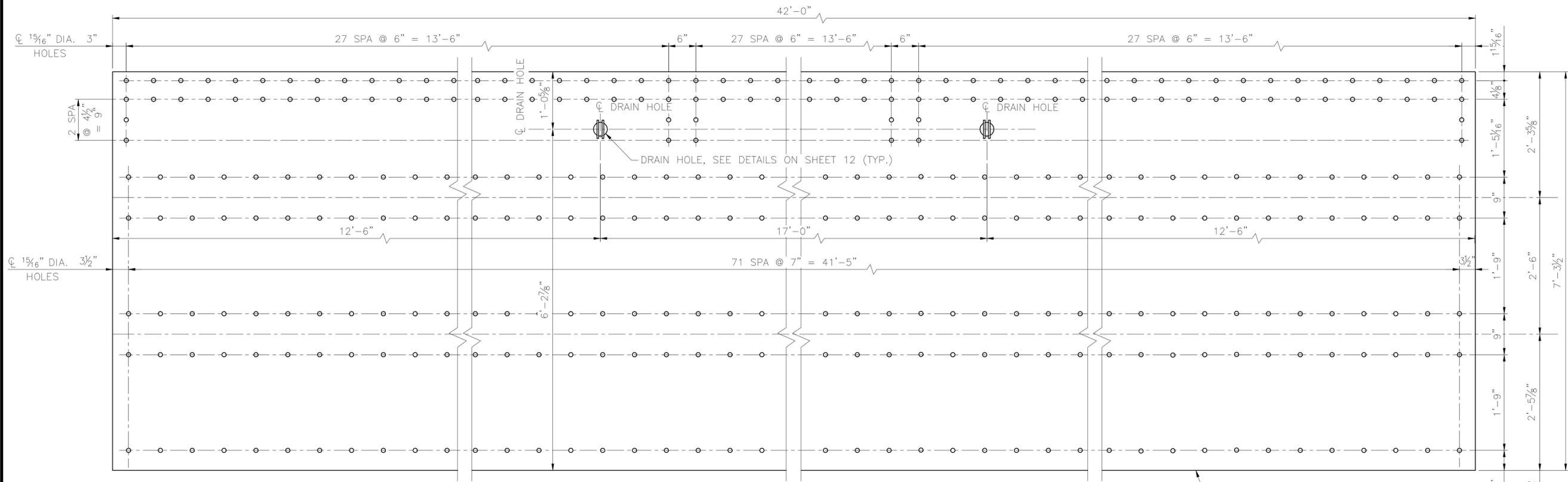
2/14/2025  
 HDR ENGINEERING, INC.  
 582 E. 36TH AVE, SUITE 500  
 ANCHORAGE, AK 99503-4169  
 (907) 644-2000  
 LICENSE #: AECC569



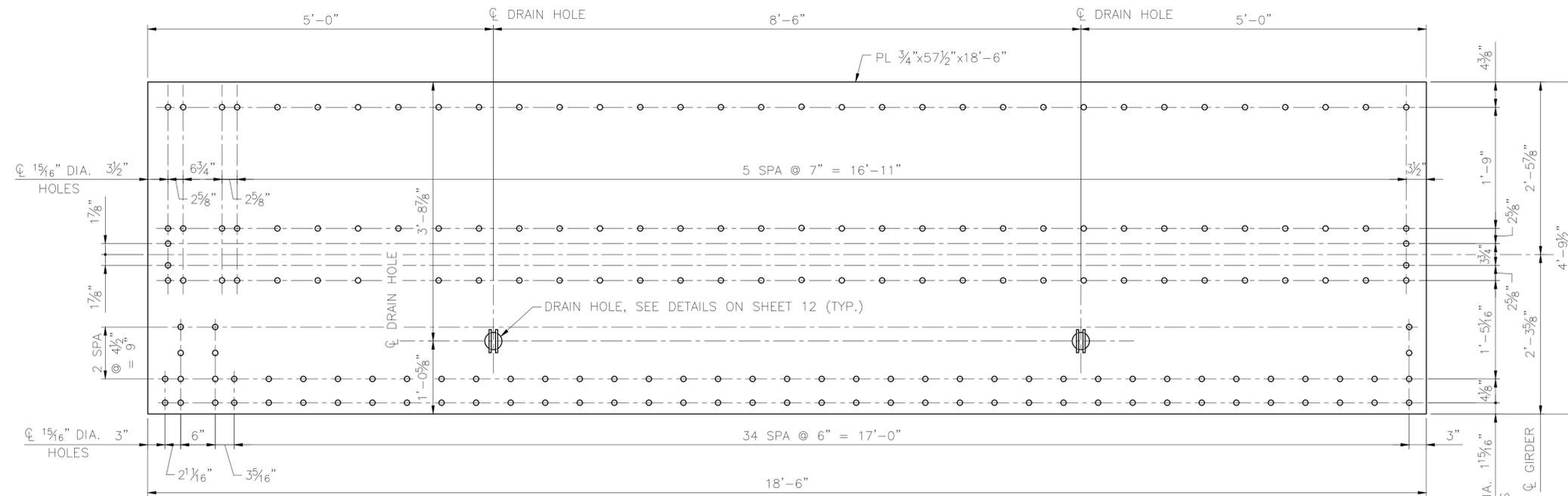
**ALASKA RAILROAD**  
 CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500  
 PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3  
 SHEET TITLE: STEEL DECK DETAILS (2 OF 4)

AFE NO.	11228
YEAR	2025
SHEET	13 OF 22

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 DATE: 2/14/2025 8:54 AM  
 TIME: AS NOTED  
 SCALE: AS NOTED  
 PUBLISHED CTB: ARRC\_CTB\_2023.CTB



**DECK PLATE MK DP9**  
 SCALE: 1" = 1'-0"  
 2 ~ REQUIRED  
 ESTIMATED LIFTING WEIGHT: 9,379 LBS



**DECK PLATE MK DP11 & DP13**  
 SCALE: 1" = 1'-0"  
 DP11 SHOWN, DP13 MIRRORED  
 2 DP11 & 2 DP13 ~ REQUIRED  
 ESTIMATED LIFTING WEIGHT: 2,715 LBS

DESIGNED BY: ML  
 CHECKED BY: KK  
 DRAFTED BY: MEM

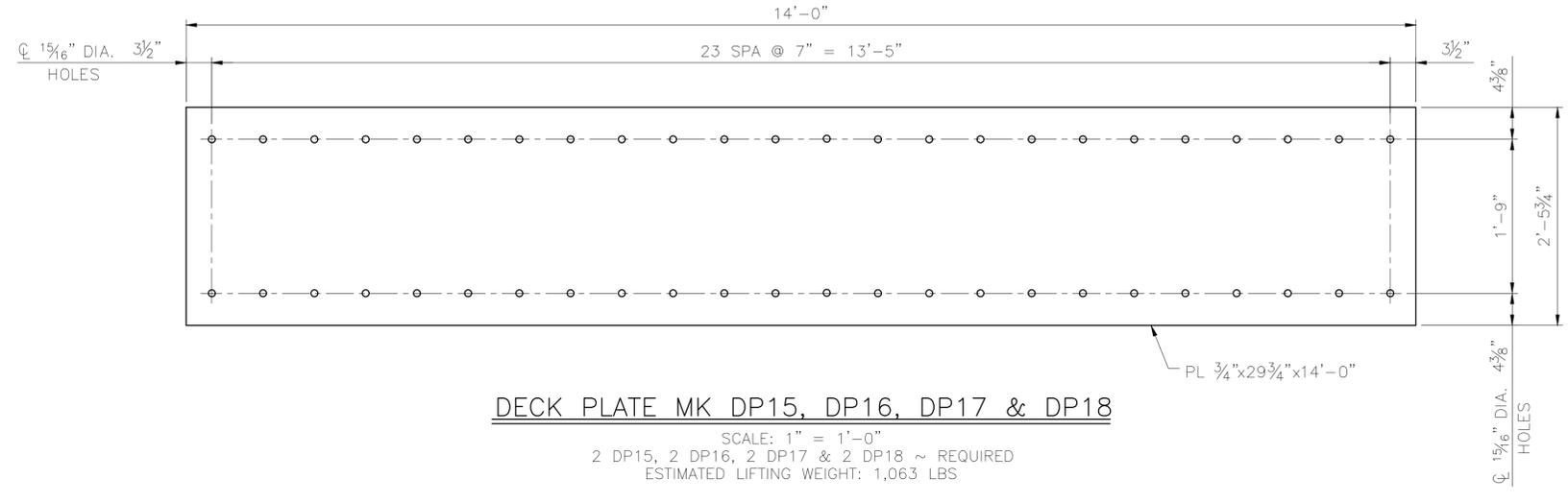
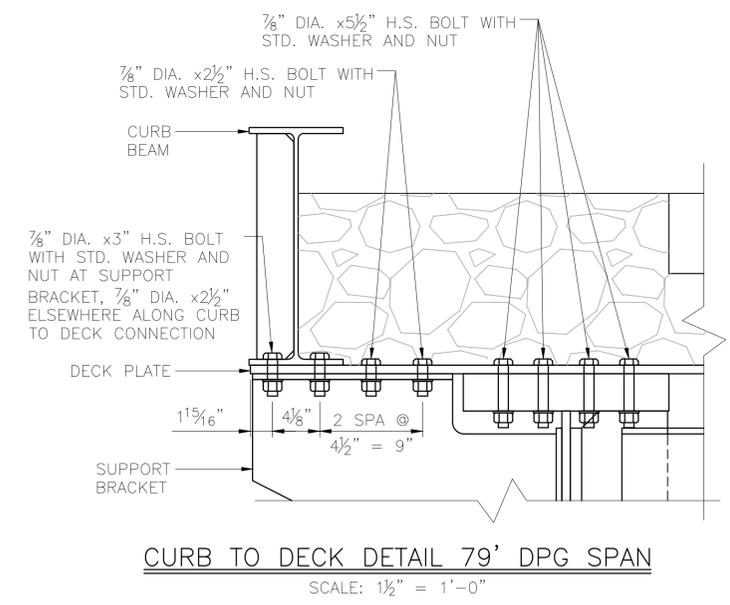
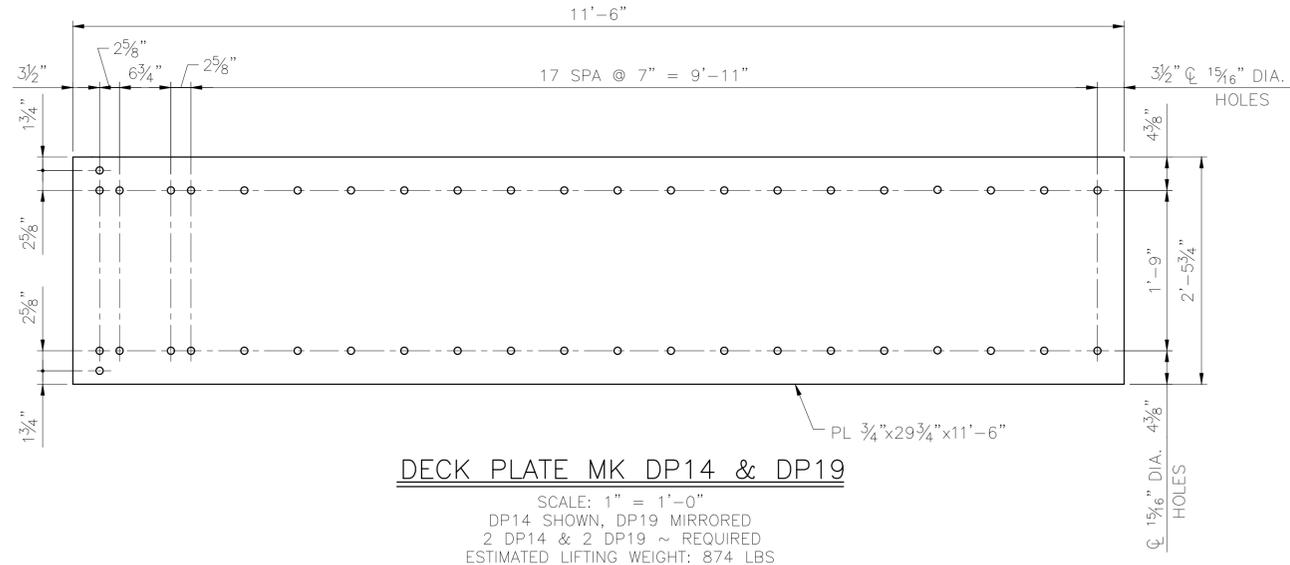
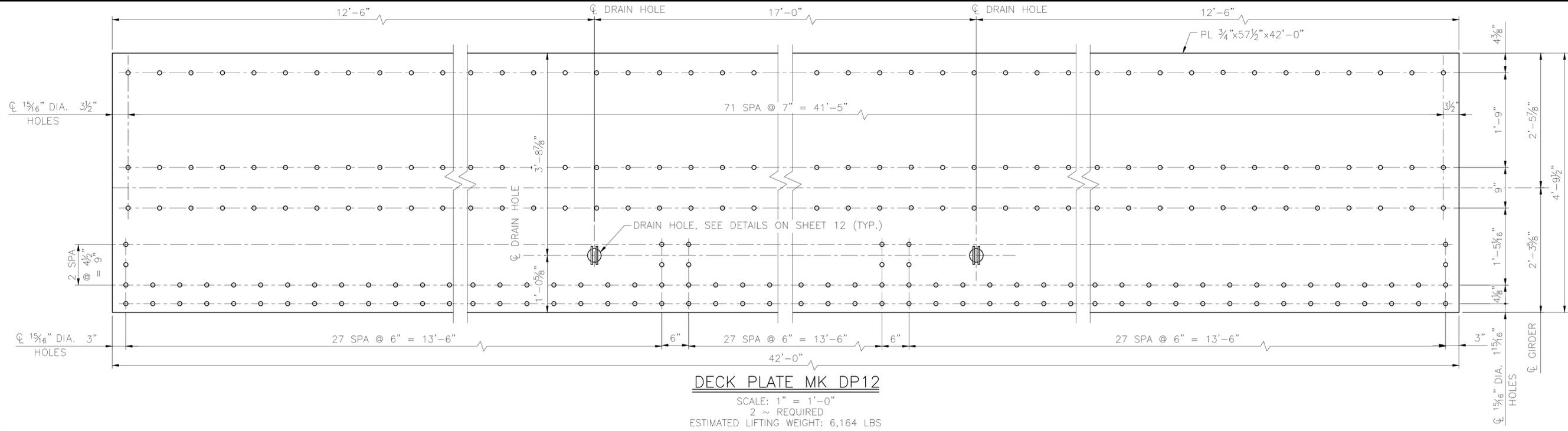


**ALASKA RAILROAD**  
 CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3  
 SHEET TITLE: STEEL DECK DETAILS (3 OF 4)

AFE NO. 11228  
 YEAR 2025  
 SHEET 14 OF 22

DRAWING LOCATION: C:\PWORKING\WEST01\4079759\BR\_114.3\_SHIP\_CREEK\_15.DWG  
 DATE: 2/14/2025 8:54 AM  
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 PUBLISHED CTB: ARRC\_CTB\_2023.CTB



DESIGNED BY:	ML
CHECKED BY:	KK
DRAFTED BY:	MEM

2/14/2025  
 HDR ENGINEERING, INC.  
 582 E. 36TH AVE., SUITE 500  
 ANCHORAGE, AK 99503-4169  
 (907) 644-2000  
 LICENSE #: AECC569

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**ALASKA RAILROAD**

CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

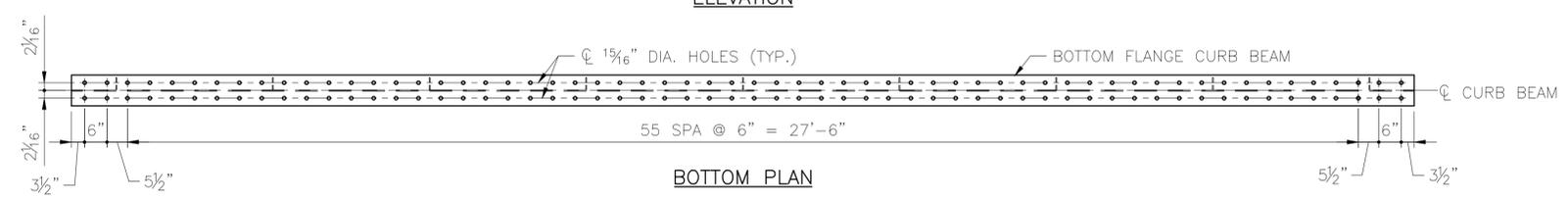
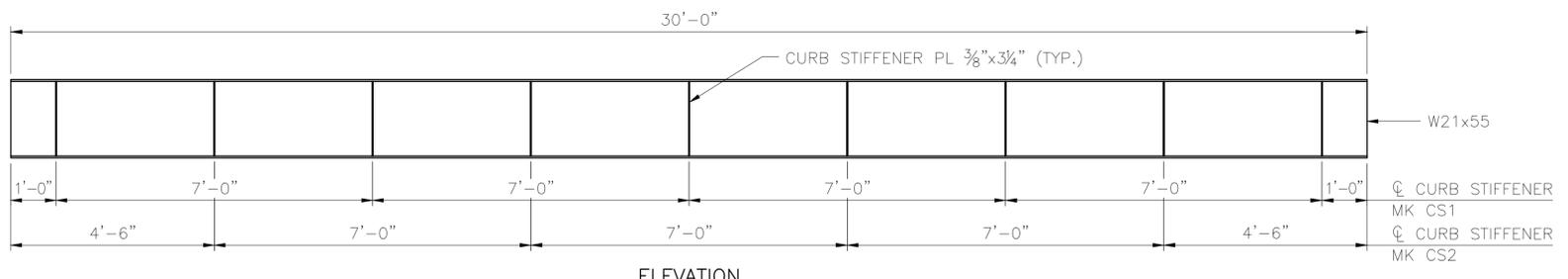
PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3

SHEET TITLE: STEEL DECK DETAILS (4 OF 4)

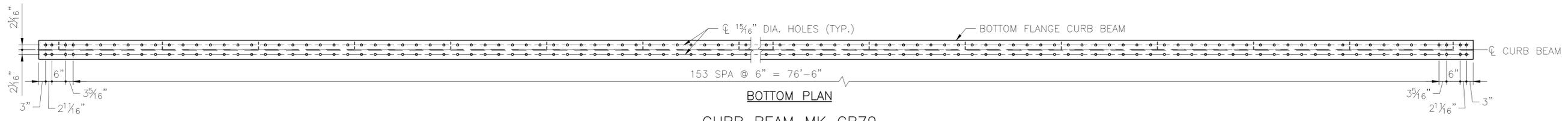
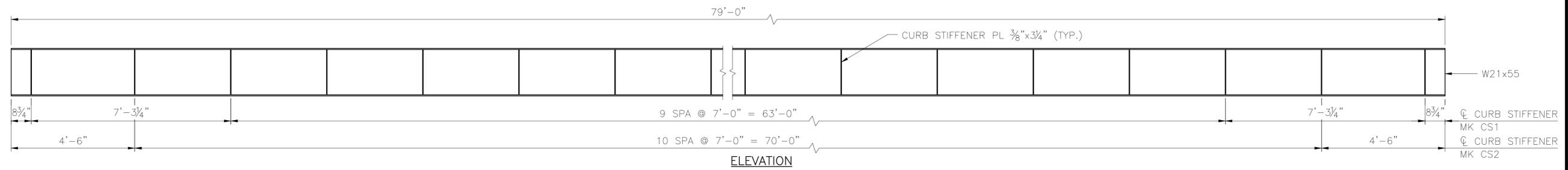
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AFE NO.	11228
YEAR	2025
SHEET	15 OF 22

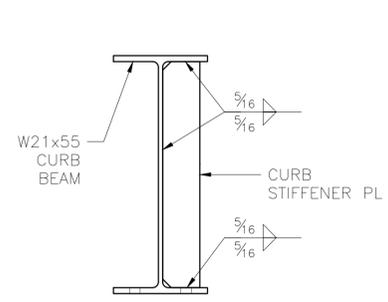
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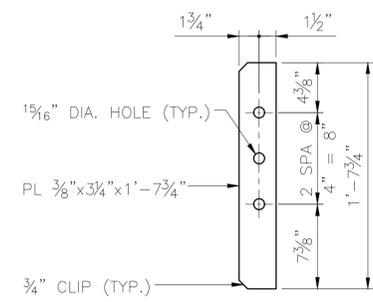
**CURB BEAM MK\_CB30**  
 SCALE: 1/2" = 1'-0"  
 2 ~ REQUIRED  
 ESTIMATED WEIGHT = 1,712 LBS



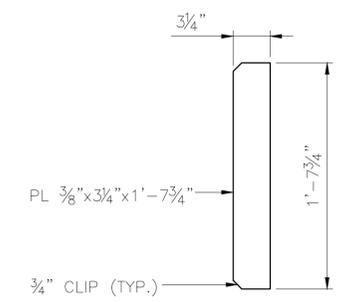
**CURB BEAM MK\_CB79**  
 SCALE: 1/2" = 1'-0"  
 4 ~ REQUIRED  
 ESTIMATED WEIGHT = 4,502 LBS



SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"

DESIGNED BY: ML  
 CHECKED BY: KK  
 DRAFTED BY: MEM



HDR ENGINEERING, INC.  
 582 E. 35TH AVE, SUITE 500  
 ANCHORAGE, AK 99503-4169  
 (907) 644-2000  
 LICENSE #: AECC569

HR

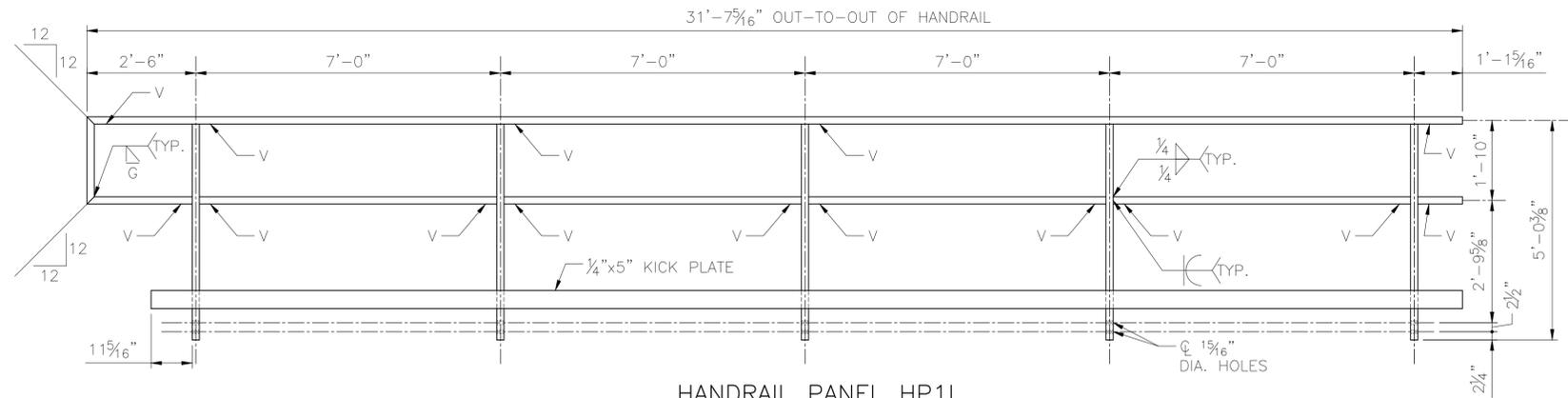
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 ANCHORAGE, AK 99503-4169  
 (907) 644-2000

**ALASKA RAILROAD**  
 CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

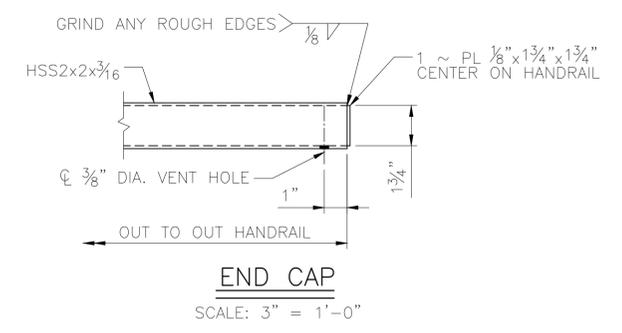
PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER  
 SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3  
 SHEET TITLE: CURB BEAM DETAILS

AFE NO. 11228  
 YEAR 2025  
 SHEET 16 OF 22

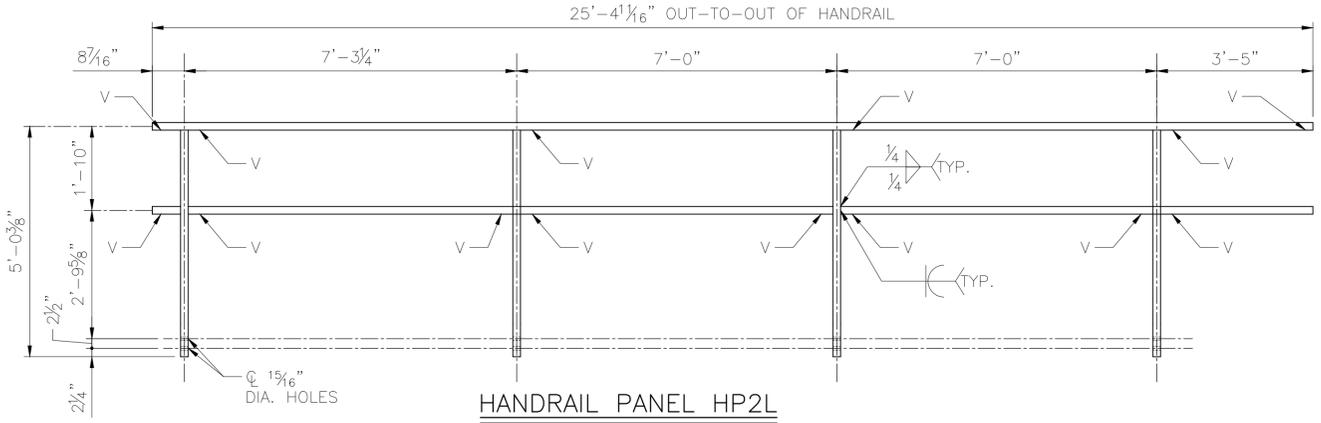




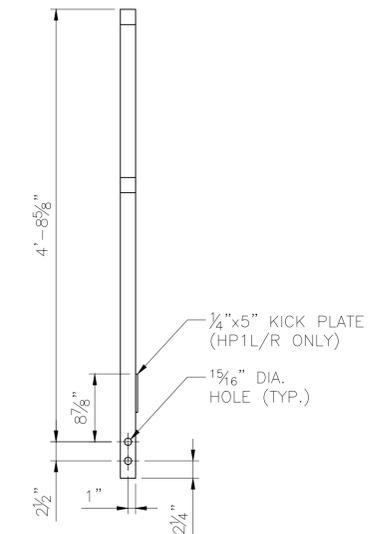
**HANDRAIL PANEL HP1L**  
 SCALE: 1/2" = 1'-0"  
 HANDRAIL PANEL HP1R OPPOSITE HAND  
 1 HP1L & 1 HP1R ~ REQUIRED  
 ESTIMATED WEIGHT = 516 LBS



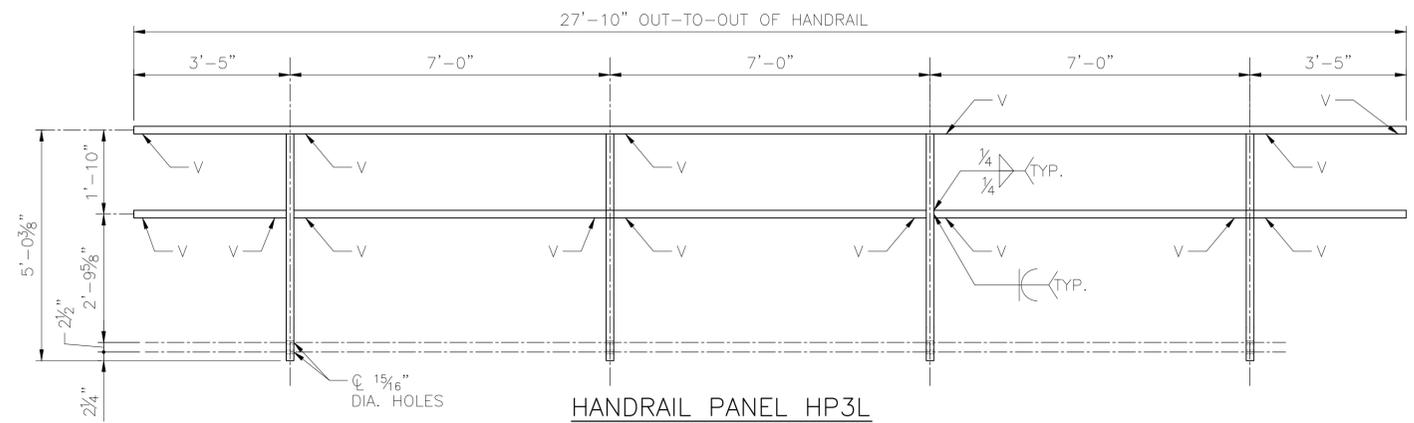
**END CAP**  
 SCALE: 3" = 1'-0"



**HANDRAIL PANEL HP2L**  
 SCALE: 1/2" = 1'-0"  
 HANDRAIL PANEL HP2R OPPOSITE HAND  
 2 HP2L & 2 HP2R ~ REQUIRED  
 ESTIMATED WEIGHT = 305 LBS



**HANDRAIL SIDE VIEW**  
 SCALE: 1" = 1'-0"  
 TYPICAL ALL HANDRAIL POSTS



**HANDRAIL PANEL HP3L**  
 SCALE: 1/2" = 1'-0"  
 HANDRAIL PANEL HP3R OPPOSITE HAND  
 2 HP3L & 2 HP3R ~ REQUIRED  
 ESTIMATED WEIGHT = 326 LBS

- NOTES:**
- HANDRAIL PANELS ARE TO BE FABRICATED FROM HSS2x2x3/16", ASTM A500, GRADE B.
  - GALVANIZE HANDRAIL PANELS AFTER FABRICATION.
  - V = 3/8" DIA. DRILLED VENT HOLE 1" FROM JOINT.

DESIGNED BY:	ML
CHECKED BY:	KK
DRAFTED BY:	MEM

STATE OF ALASKA  
 49TH  
 KYLE KAUZURICH  
 No. 201316  
 REGISTERED STRUCTURAL ENGINEER  
 2/14/2025  
 HDR ENGINEERING, INC.  
 582 E. 36TH AVE, SUITE 500  
 ANCHORAGE, AK 99503-4169  
 (907) 644-2000  
 LICENSE #: AECC569



CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

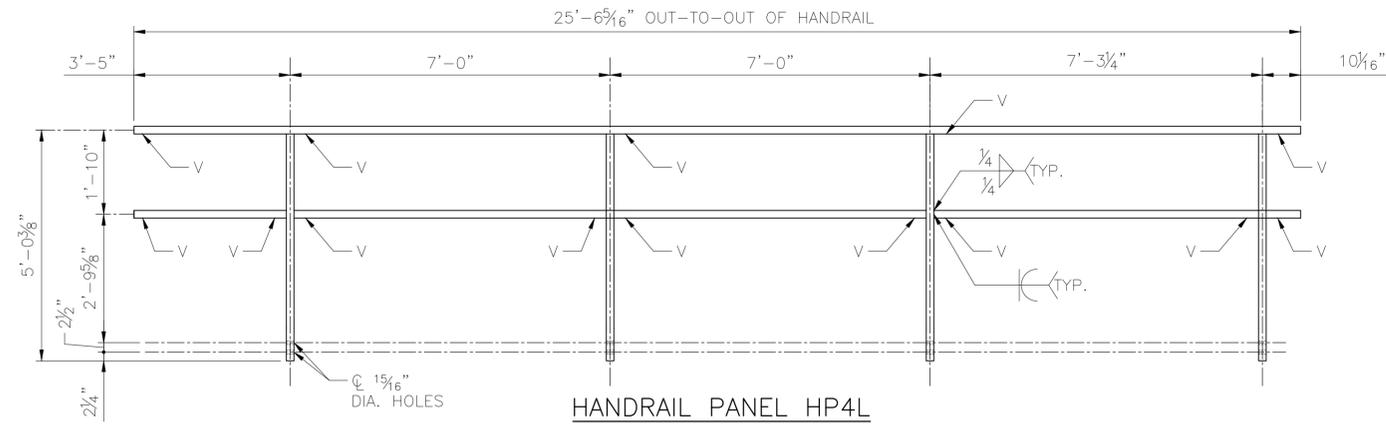
ALASKA RAILROAD  
 PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3

AFE NO.	11228
YEAR	2025
SHEET	18 OF 22

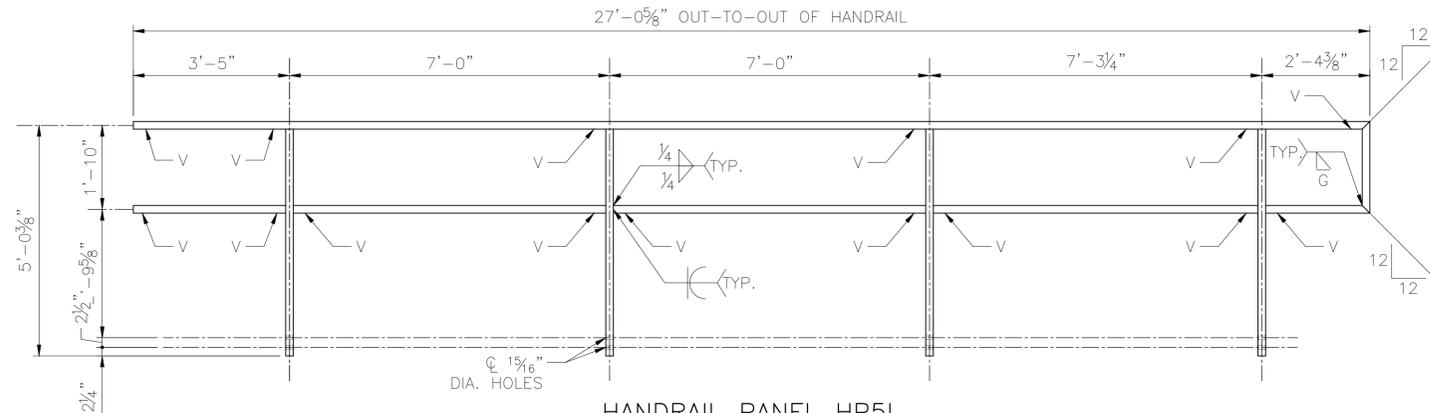
HANDRAIL DETAILS (1 OF 2)

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DATE: 2/14/2025 8:55 AM  
 TIME: 8:55 AM  
 SCALE: AS NOTED  
 PUBLISHED CTB: ARRC\_CTB\_2023.CTB



**HANDRAIL PANEL HP4L**  
 SCALE: 1/2" = 1'-0"  
 HANDRAIL PANEL HP4R OPPOSITE HAND  
 1 HP4L & 1 HP4R ~ REQUIRED  
 ESTIMATED WEIGHT = 306 LBS



**HANDRAIL PANEL HP5L**  
 SCALE: 1/2" = 1'-0"  
 HANDRAIL PANEL HP5R OPPOSITE HAND  
 1 HP5L & 1 HP5R ~ REQUIRED  
 ESTIMATED WEIGHT = 328 LBS

**NOTES:**

- HANDRAIL PANELS ARE TO BE FABRICATED FROM HSS2x2x3/16", ASTM A500, GRADE B.
- GALVANIZE HANDRAIL PANELS AFTER FABRICATION.
- V = 3/8" DIA. DRILLED VENT HOLE 1" FROM JOINT.
- REFER TO SHEET 18 FOR END CAP AND HANDRAIL SIDE VIEW DETAILS.

DESIGNED BY: ML  
 CHECKED BY: KK  
 DRAFTED BY: MEM



**ALASKA RAILROAD**  
 CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3

SHEET TITLE: HANDRAIL DETAILS (2 OF 2)

AFE NO. 11228  
 YEAR 2025  
 SHEET 19 OF 22

DRAWING LOCATION: C:\PWORKING\WEST01\4079759\BR\_114.3\_SHIP\_CREEK\_20.DWG  
 DATE: 2/14/2025 8:55 AM  
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 PUBLISHED: CTB  
 ARRCC: CTB\_2023.CTB

DESIGNED BY: ML  
 CHECKED BY: KK  
 DRAFTED BY: MEM

2/14/2025  
 HDR ENGINEERING, INC.  
 582 E. 36TH AVE, SUITE 500  
 ANCHORAGE, AK 99503-4169  
 (907) 644-2000  
 LICENSE #: AECC569

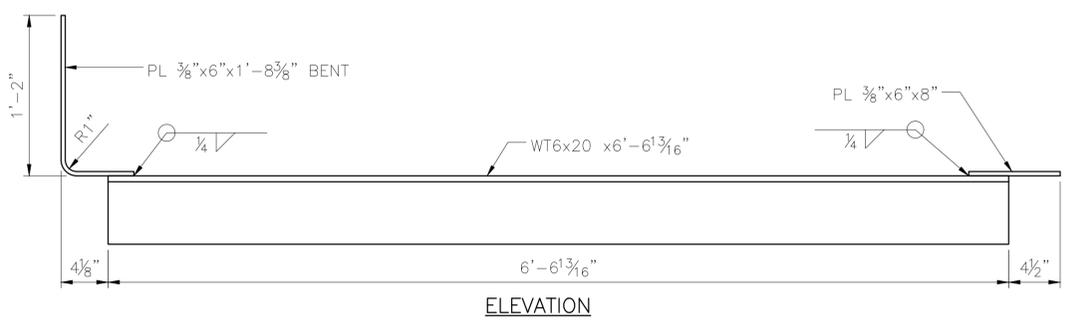
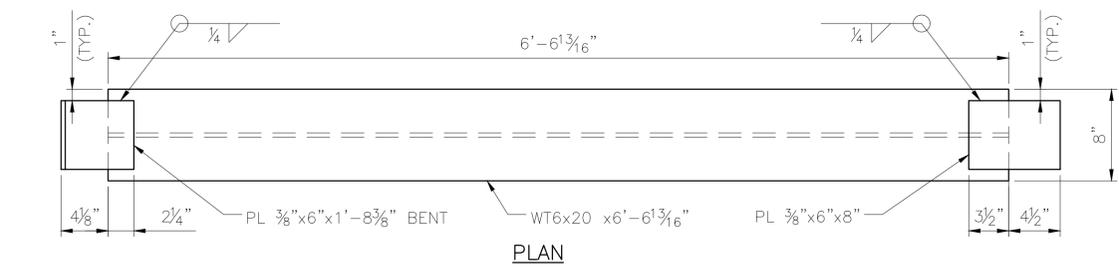


**CAPITAL PROJECTS**  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

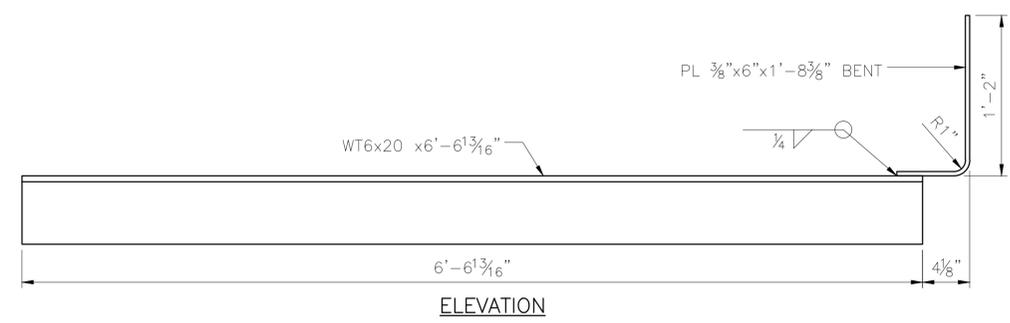
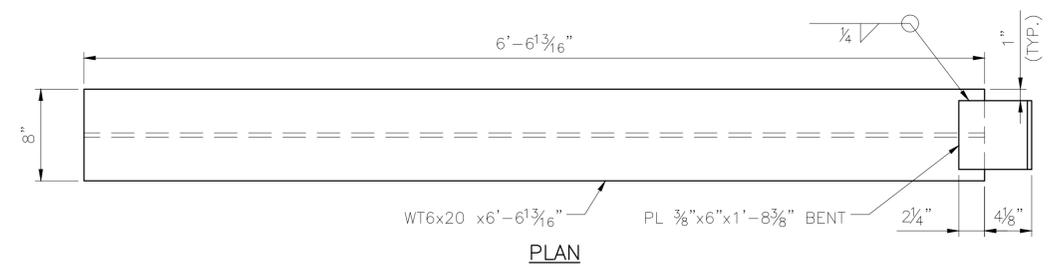


PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3  
 SHEET TITLE: MISCELLANEOUS DETAILS

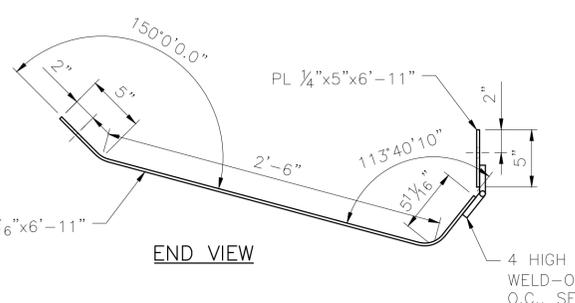
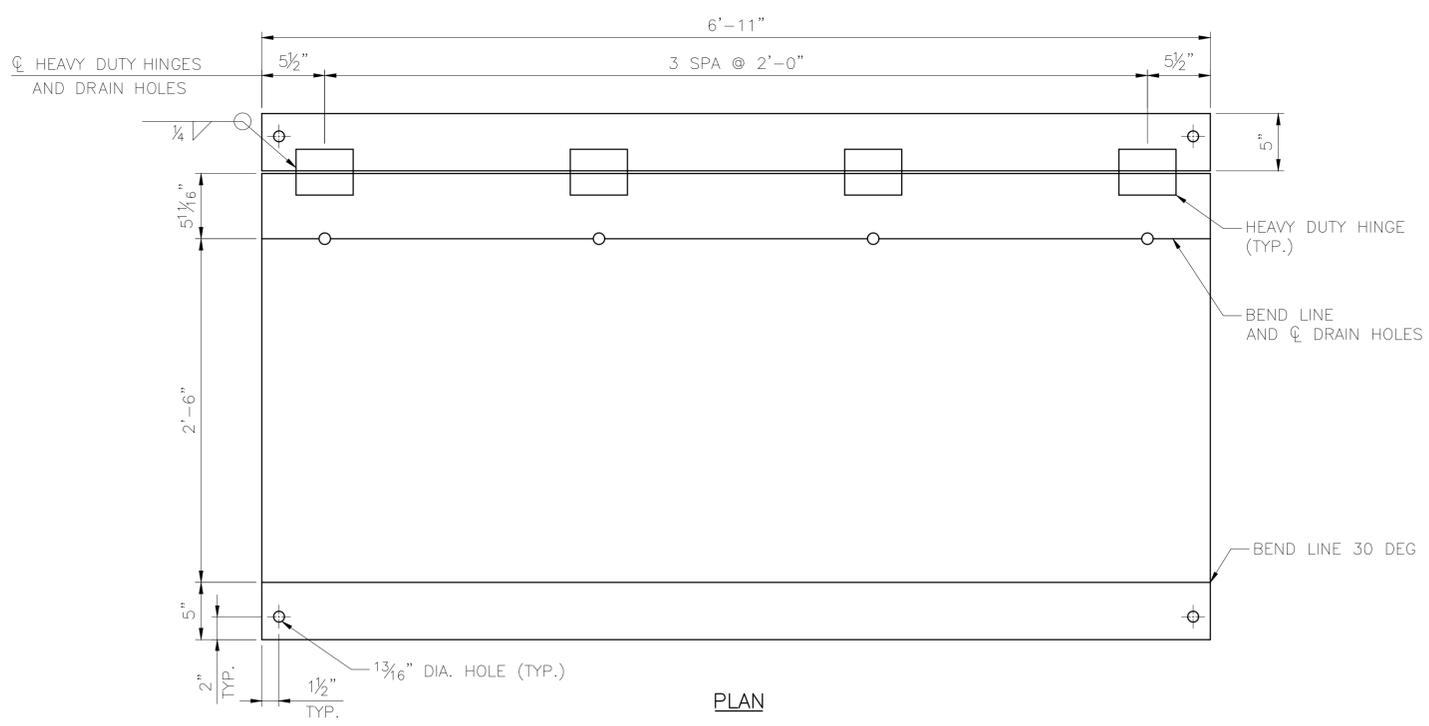
AFE NO. 11228  
 YEAR 2025  
 SHEET 20 OF 22



**COVER PLATE MK CP1**  
 SCALE: 1 1/2" = 1'-0"  
 4 ~ REQUIRED  
 ESTIMATED WEIGHT = 150 LBS

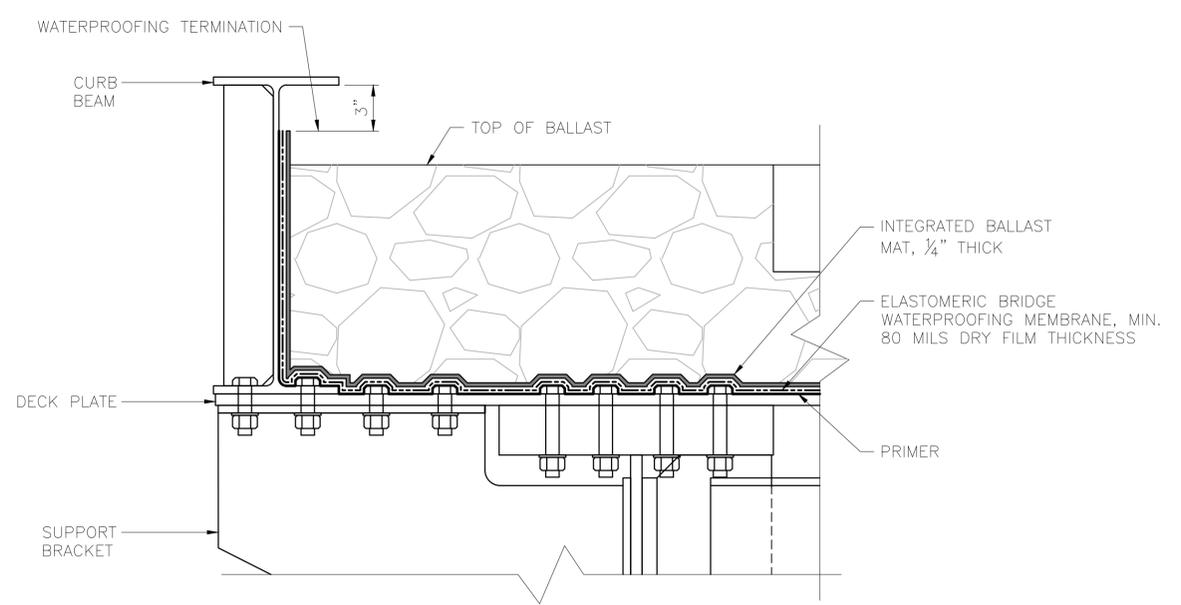


**COVER PLATE MK CP2**  
 SCALE: 1 1/2" = 1'-0"  
 4 ~ REQUIRED  
 ESTIMATED WEIGHT = 145 LBS



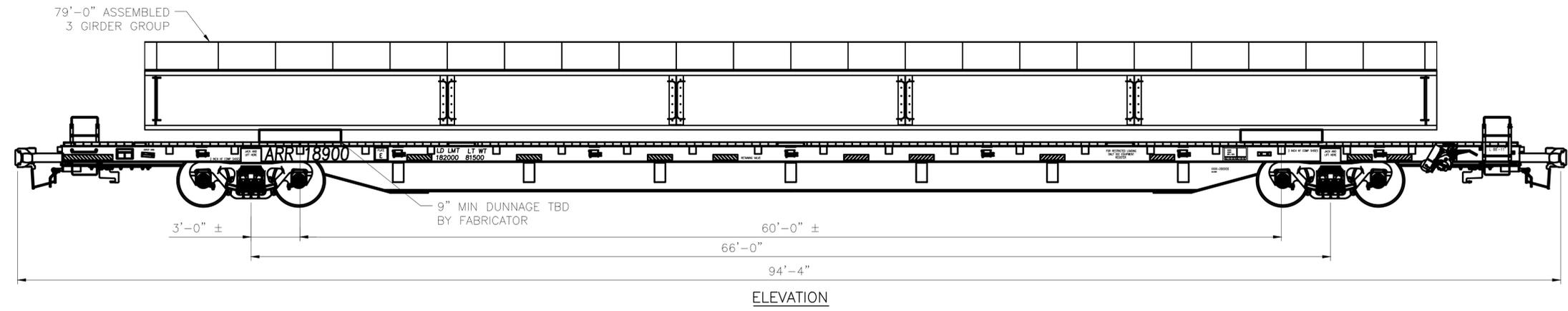
**BALLAST CATCHMENT PAN**  
 SCALE: 1 1/2" = 1'-0"  
 8 ~ REQUIRED  
 ESTIMATED WEIGHT = 270 LBS

**NOTES:**  
 1. HINGES TO BE CORROSION RESISTANT STEEL OR GALVANIZED AND HAVE A MINIMUM LOAD CAPACITY OF 500 LBS EACH.

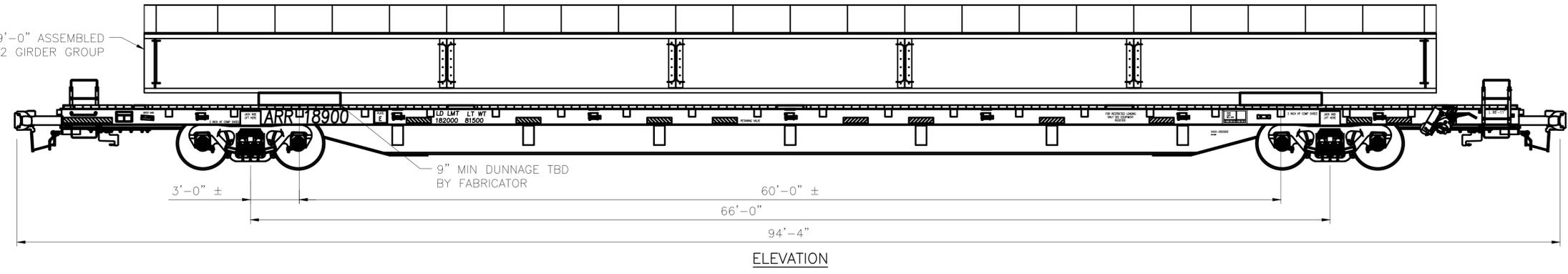
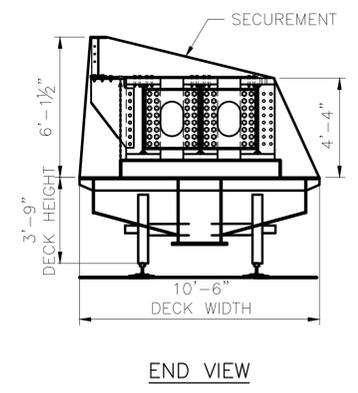


**WATERPROOFING DETAIL**  
 SCALE: 2" = 1'-0"  
 WATERPROOFING TO BE APPLIED IN FIELD BY BRIDGE CONSTRUCTION CONTRACTOR WHEN SPECIFIED. WORK NOT INCLUDED WITH SHOP FABRICATION.

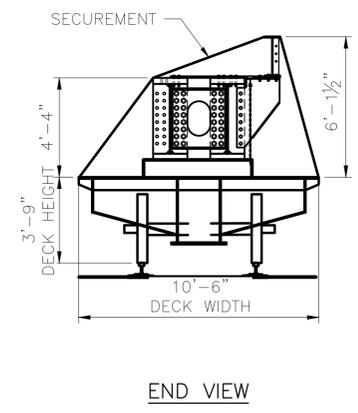
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 TIME: AS NOTED  
 SCALE: AS NOTED  
 PUBLISHED CTB: ARRC\_CTB\_2023.CTB



**79'-0 ASSEMBLED 3 GIRDER GROUP ON 89' FLAT CAR**  
 SCALE: 1" = 4'-0"  
 2 ~ REQUIRED  
 ESTIMATED PAYLOAD WEIGHT = 156,000 LBS



**79'-0 ASSEMBLED 2 GIRDER GROUP ON 89' FLAT CAR**  
 SCALE: 1" = 4'-0"  
 2 ~ REQUIRED  
 ESTIMATED PAYLOAD WEIGHT = 105,000 LBS



**SECUREMENT AND SHIPPING NOTES:**

- FABRICATOR TO COORDINATE SHIPPING VIA AML RAIL BARGE WITH ARRC IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SHIPPING SHALL BE F.O.B. TO PCC LOGISTICS, 3629 DUWAMISH AVENUE SOUTH, SEATTLE, WA 98134.
- ARRC WILL PROVIDE 1189XX-89' FLAT CARS AND ONE 40' SHIPPING CONTAINER TO THEIR SEATTLE, WA TERMINAL. FABRICATOR TO COORDINATE MOVEMENT OF FLAT CARS TO AND FROM FABRICATION FACILITY OR LOADING OF MATERIAL AT TERMINAL. A TOTAL OF SIX RAIL CARS ARE EXPECTED TO BE NEEDED TO SHIP THE MATERIAL AS SHOWN IN THE PLANS. COORDINATE WITH ARRC IF ADDITIONAL RAIL CARS ARE NEEDED.
- SECURE LOADS TO ARRC PROVIDED RAIL CARS AND SHIPPING CONTAINER IN A MANNER THAT WILL NOT DAMAGE OR DEFORM THE MEMBERS. SECUREMENT DETAILS SHOWN ON THESE PLANS ARE RECOMMENDATIONS ONLY, FABRICATOR TO PROVIDE FINAL PROPOSED CONFIGURATION AND DUNNAGE SUPPORT DETAILS FOR REVIEW BY ARRC PRIOR TO LOADING AND SHIPPING MATERIAL. DUNNAGE MAY BE COMPOSED OF TIMBER OR STEEL OR COMBINATION THEREOF TO SUPPORT MATERIALS.
- UNBALANCED LOADS ARE LIMITED TO 20,000 LBS DIFFERENCE BETWEEN TRUCKS WITH NO TRUCK EXCEEDING ONE HALF THE GROSS WEIGHT LIMIT.
- WEIGHTS FOR 189XX RAIL CARS:
  - ESTIMATED LT WEIGHT: 81,500 LBS.
  - ESTIMATED CAPACITY: 181,500 LBS.
  - GROSS WEIGHT LIMIT: 263,000 LBS.

DESIGNED BY: ML  
 CHECKED BY: KK  
 DRAFTED BY: MEM

HDR ENGINEERING, INC.  
 582 E. 36TH AVE, SUITE 500  
 ANCHORAGE, AK 99503-4169  
 (907) 644-2000  
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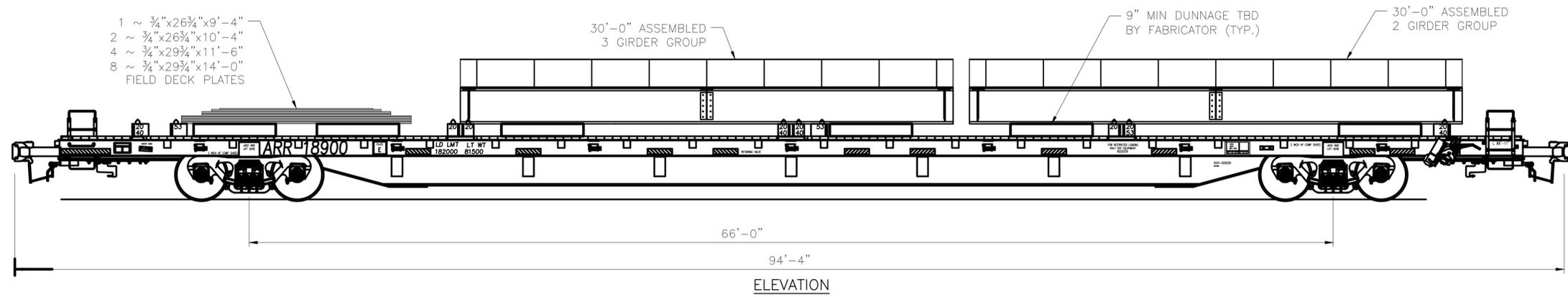


**ALASKA RAILROAD**  
 CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

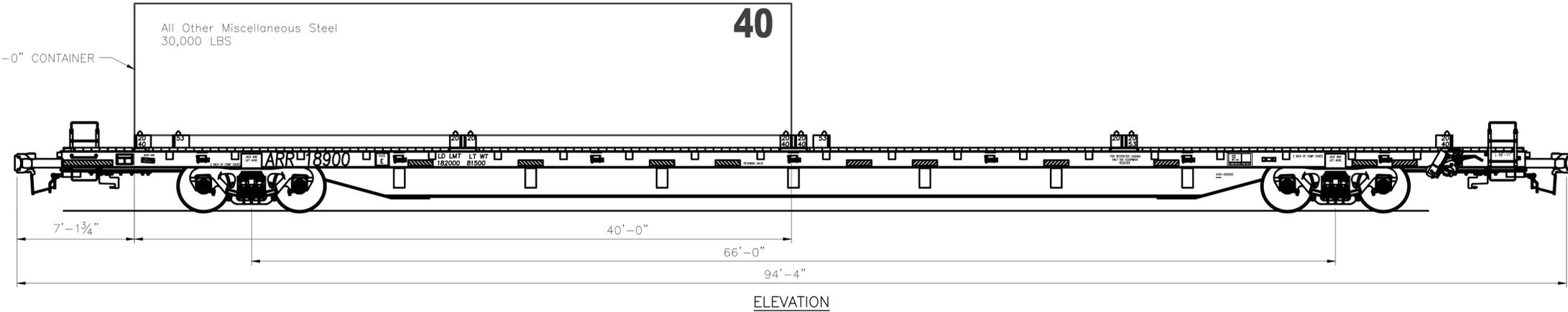
PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3  
 SHEET TITLE: SHIPPING AND SECUREMENT REQUIREMENTS (1 OF 2)

AFE NO. 11228  
 YEAR 2025  
 SHEET 21 OF 22

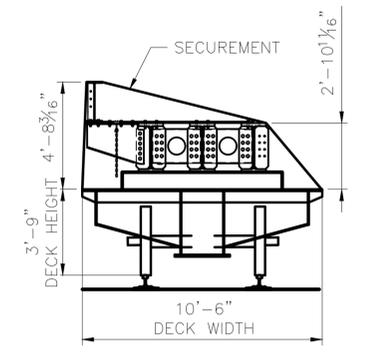
DRAWING LOCATION: C:\PWORKING\WEST01\4079759\BR\_11.4.3\_SHIP\_CREEK\_22.DWG  
 DATE: 2/14/2025 8:55 AM  
 SCALE: AS NOTED  
 PUBLISHED CTB: ARRC\_CTB\_2023.CTB



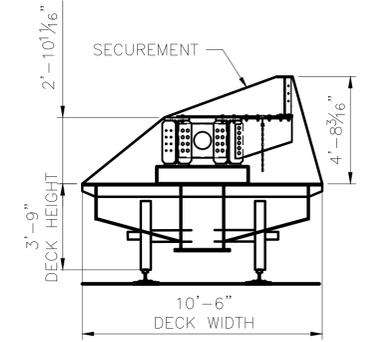
**30'-0 ASSEMBLED GIRDER GROUPS AND FIELD DECK PLATES ON 89' FLAT CAR**  
 SCALE: 1" = 4'-0"  
 1 ~ REQUIRED  
 ESTIMATED PAYLOAD WEIGHT = 60,000 LBS



**MISCELLANEOUS STEEL CONTAINER ON 89' FLAT CAR**  
 SCALE: 1" = 4'-0"  
 1 ~ REQUIRED  
 ESTIMATED PAYLOAD WEIGHT = 30,000 LBS



END VIEW - 3 BEAM GROUP



END VIEW - 2 BEAM GROUP

**NOTES:**

1. REFER TO SHEET 21 FOR SECUREMENT AND SHIPPING NOTES.

DESIGNED BY:	ML
CHECKED BY:	KK
DRAFTED BY:	MEM

2/14/2025  
 HDR ENGINEERING, INC.  
 582 E. 36TH AVE., SUITE 500  
 ANCHORAGE, AK 99503-4169  
 (907) 644-2000  
 LICENSE #: AECC569



CAPITAL PROJECTS  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

PROJECT: FABRICATION AND SUPPLY OF 2~79' DECK PLATE GIRDER SPANS AND 1~30' ROLLED BEAM SPAN FOR BRIDGE 114.3  
 SHEET TITLE: SHIPPING AND SECUREMENT REQUIREMENTS (2 OF 2)

AFE NO.	11228
YEAR	2025
SHEET	22 OF 22