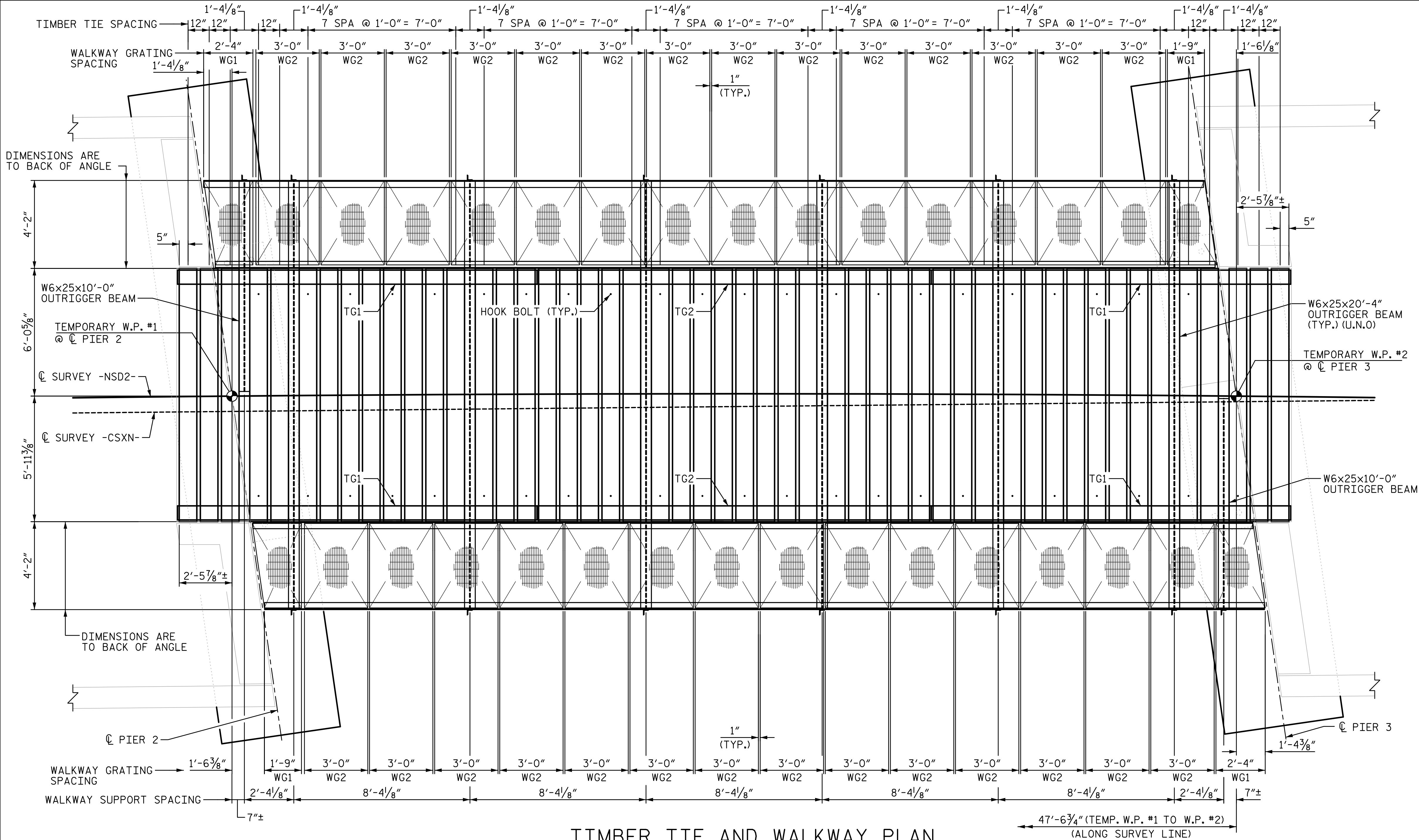
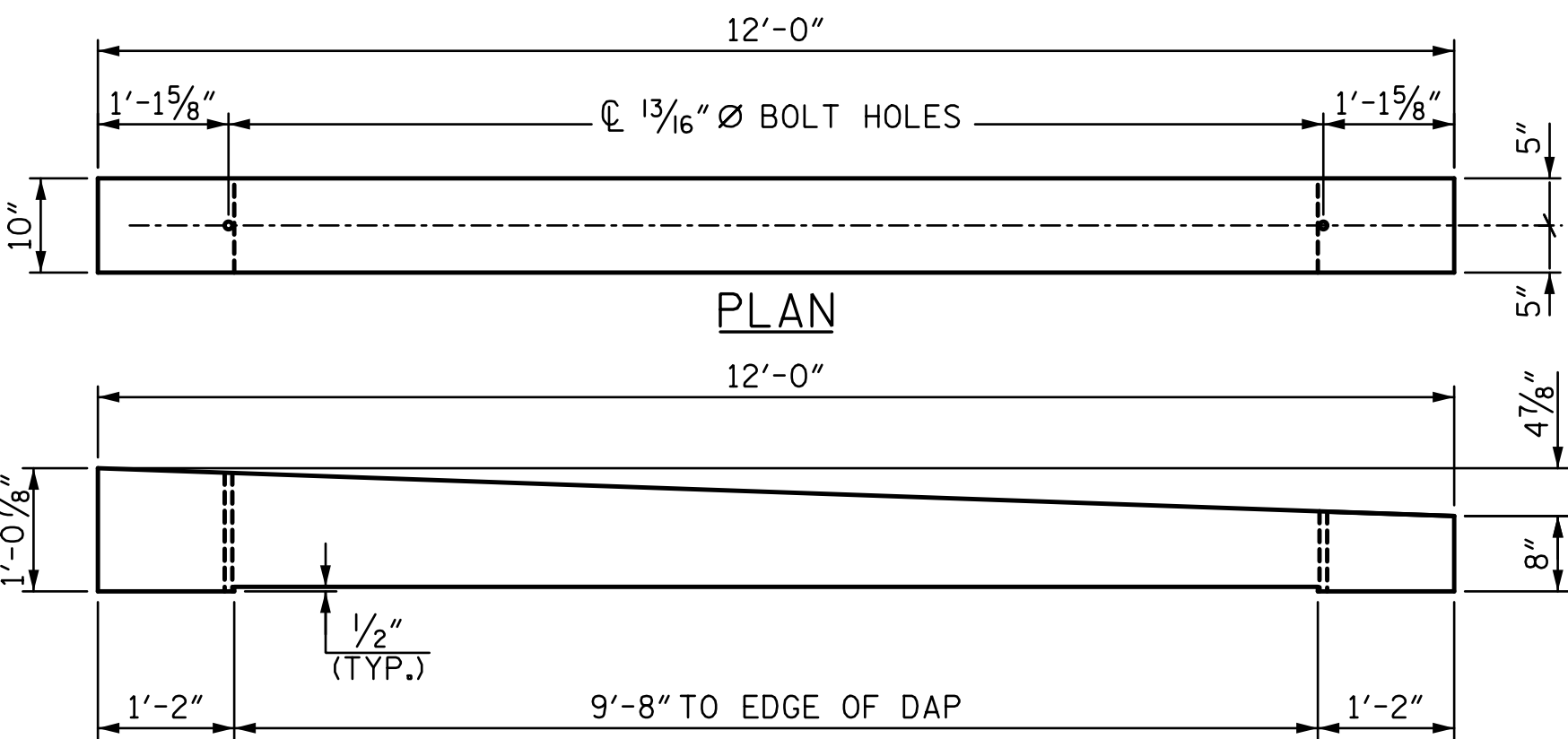


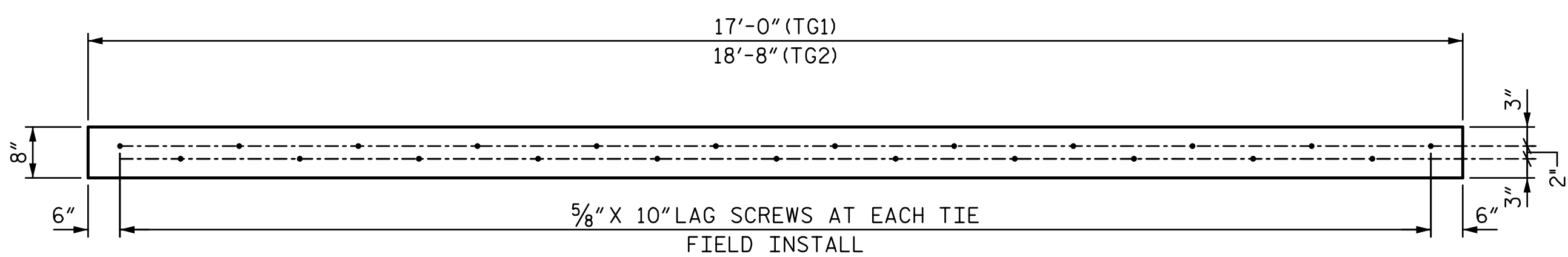
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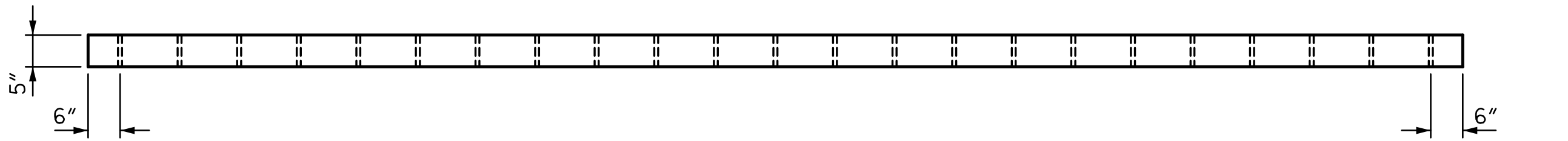
TIMBER TIE AND WALKWAY PLAN



ELEVATION
TIMBER BRIDGE TIE



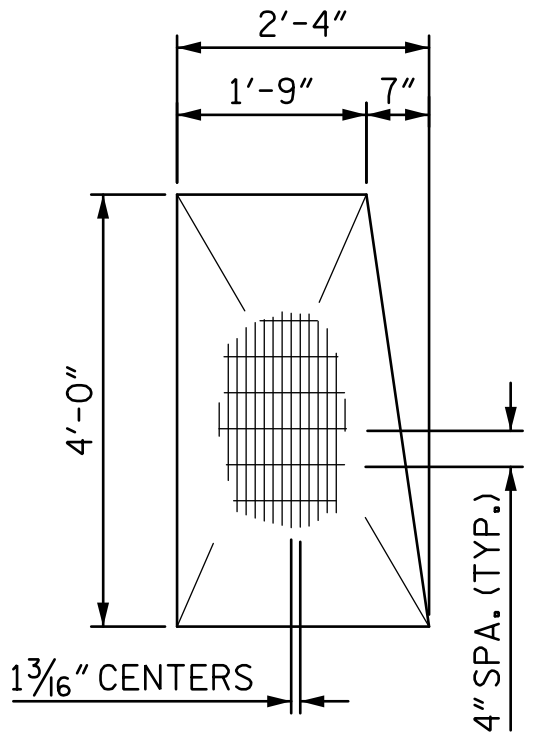
PLAN



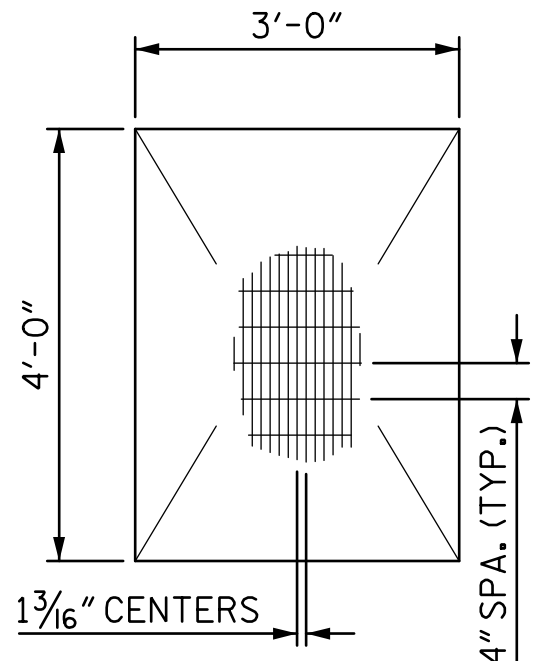
ELEVATION
TIMBER GUARDRAIL

NOTES:

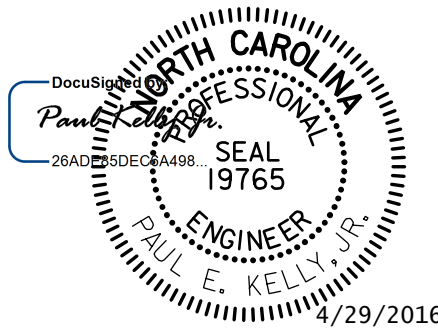
1. FOR TEMPORARY SPAN GENERAL NOTES, SEE SHEET TITLED 'TEMPORARY SPAN GENERAL NOTES'.
2. FOR TEMPORARY SPAN STRUCTURAL STEEL DETAILS, SEE SHEETS TITLED 'TEMPORARY SPAN STRUCTURAL STEEL DETAILS'.
3. FOR ADDITIONAL NOTES AND DETAILS, SEE SHEET TITLED 'TIMBER DECK AND WALKWAY DETAILS (SHEET 2 OF 2)'
4. FOR ALTERNATE TEMPORARY SPAN, USE 10' X 8' MIN. X 10'-0" TIES WITH 5'-0" GRATING.



WG1



WG2



PROJECT NO. U-3308
DURHAM COUNTY
STATION: 24+55.20 -LALT-
13+22.18 -CSXN-
SHEET 5 OF 16

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TIMBER DECK AND
WALKWAY DETAILS
(SHEET 1 OF 2)

DRAWN BY : NMC DATE : 06-14
CHECKED BY : DJM DATE : 06-14

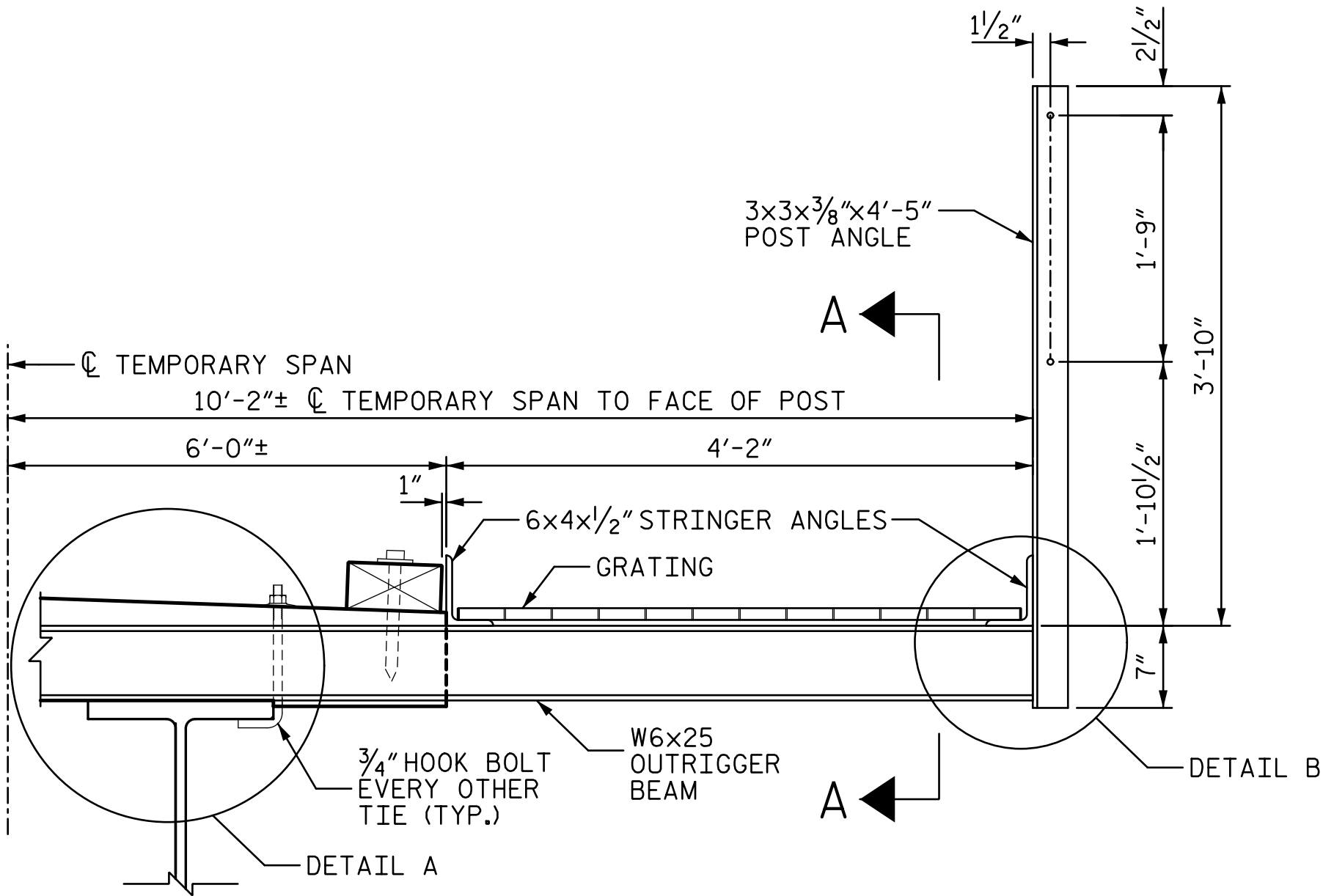
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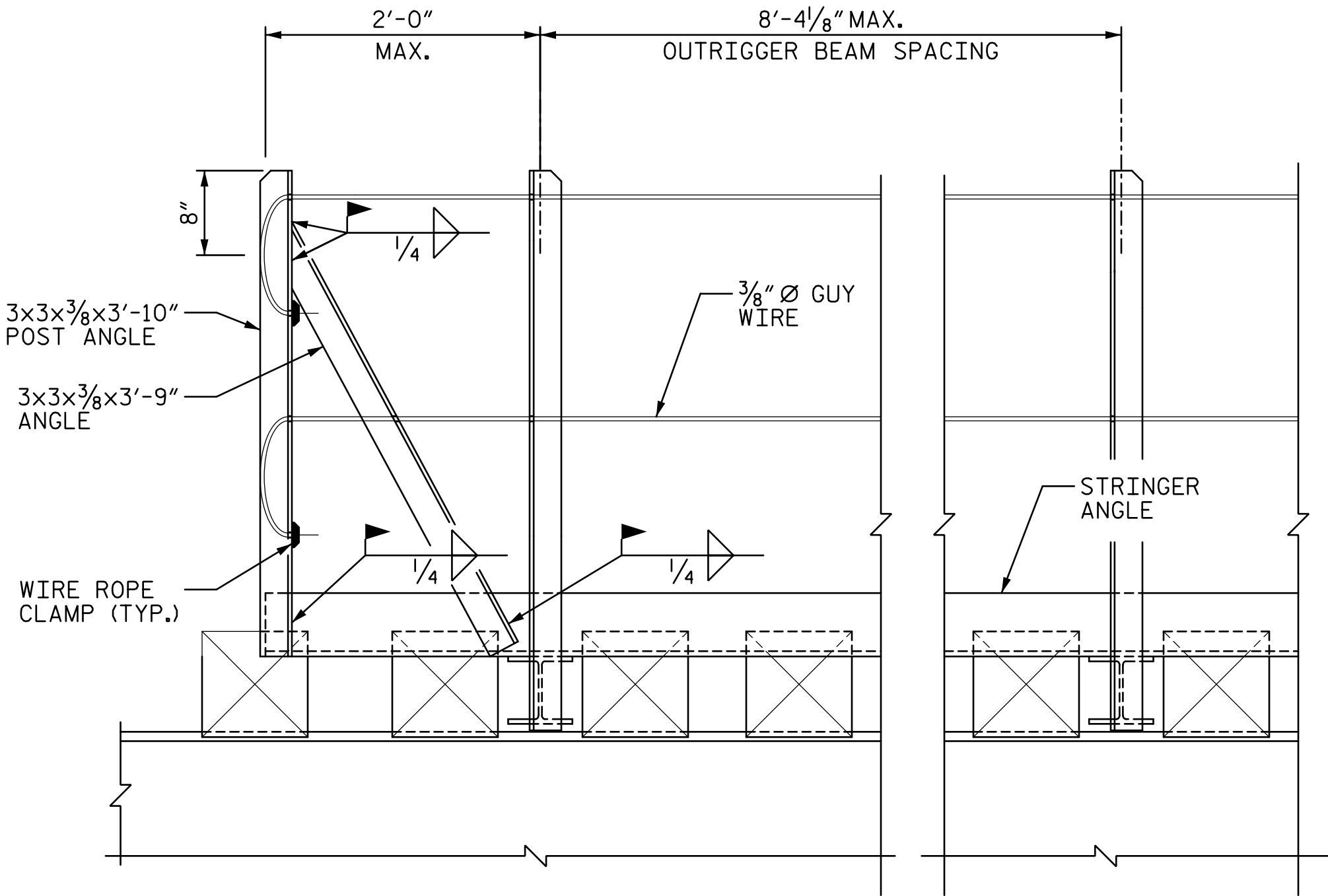
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1			3		
2			4		
				TOTAL SHEETS	68

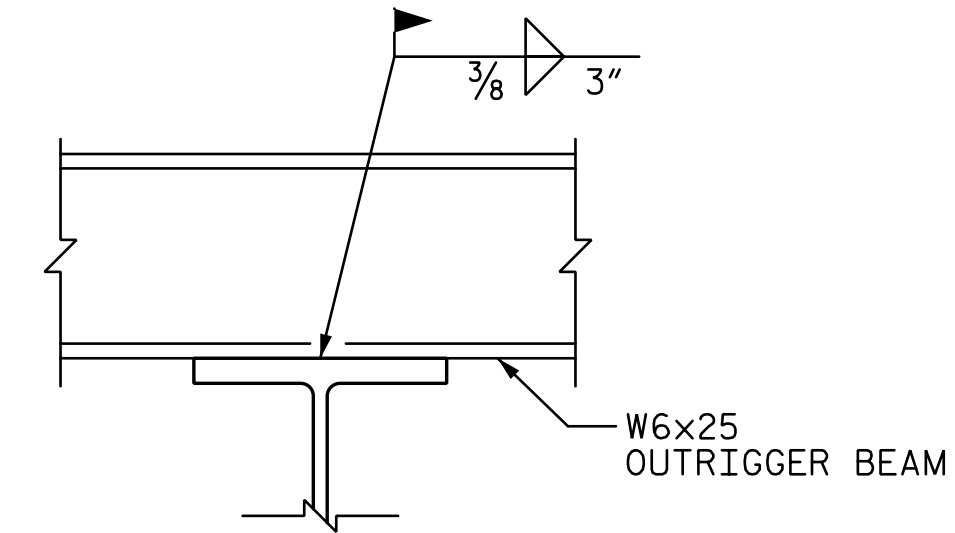
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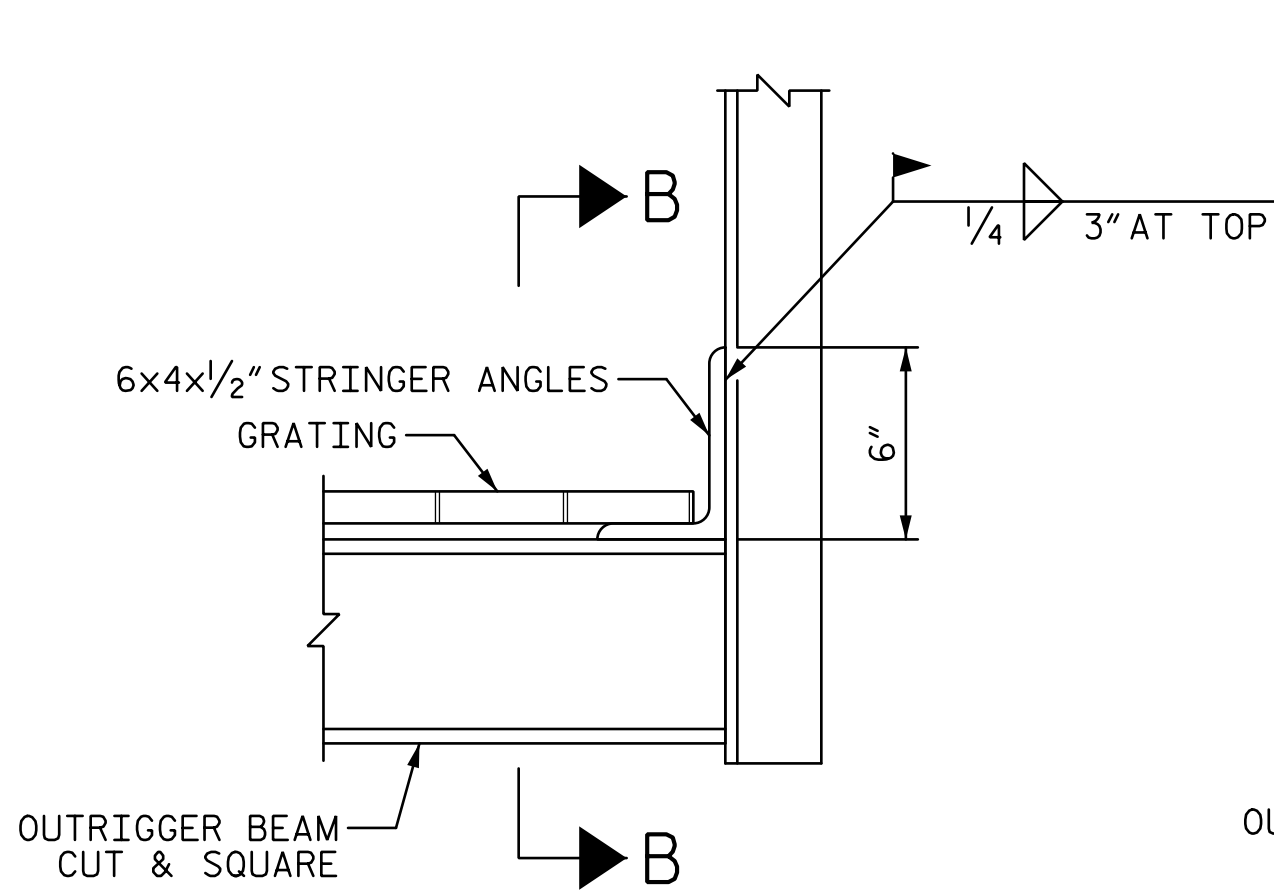
TYPICAL WALKWAY SECTION



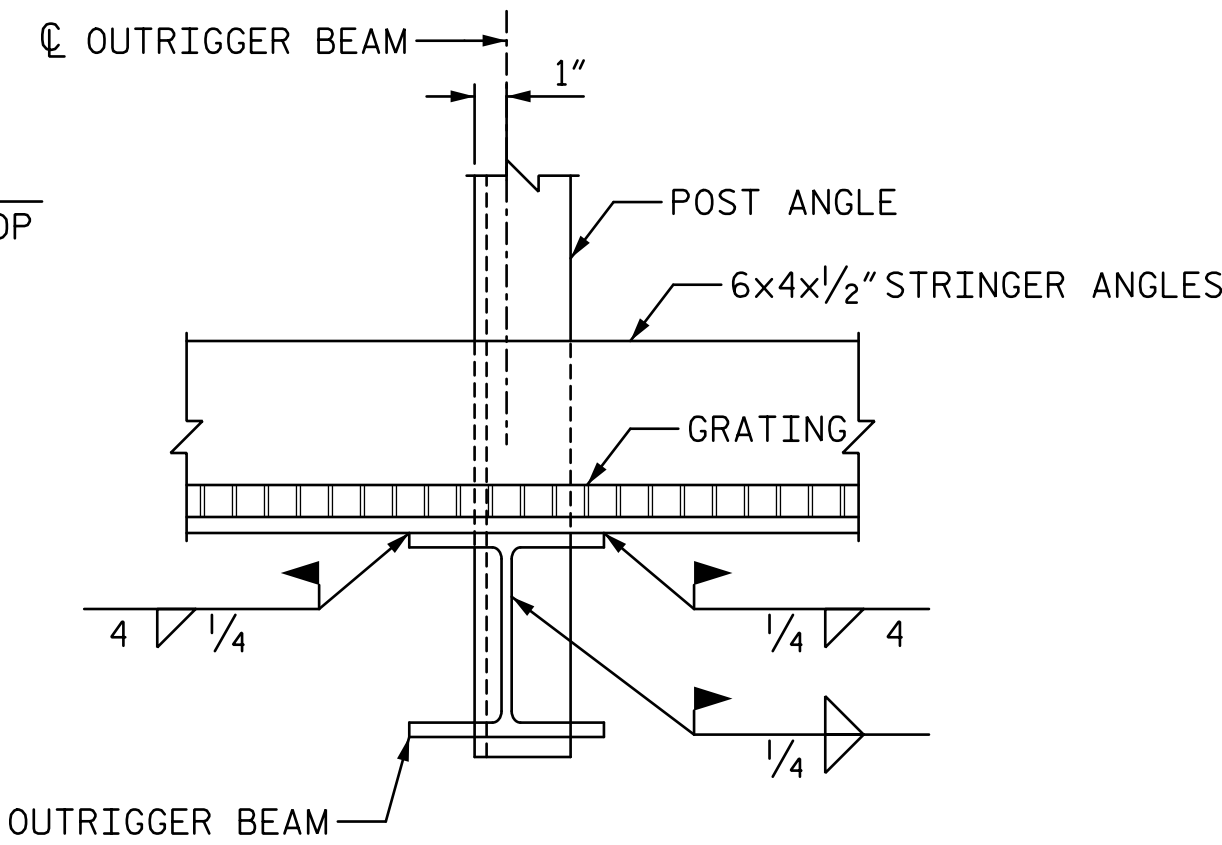
ELEVATION AT TEMPORARY SPAN ENDS



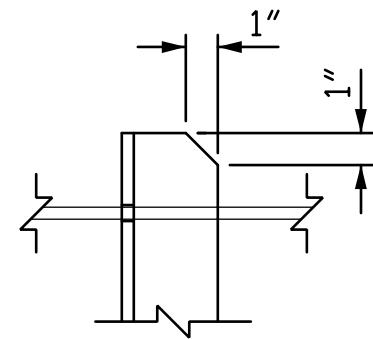
DETAIL A



DETAIL B



SECTION B-B



TYPICAL POST ANGLE CLIP

TIMBER TIE DECK GENERAL NOTES:

SPECIFICATIONS: AREMA CHAPTER 7, "TIMBER STRUCTURES" AND ANY CSXT OR NORFOLK SOUTHERN STANDARD PROCEDURES, AND AS AMENDED OR MODIFIED ON THESE PLANS.

DESIGN LOADS: COOPER E80 LIVE LOAD

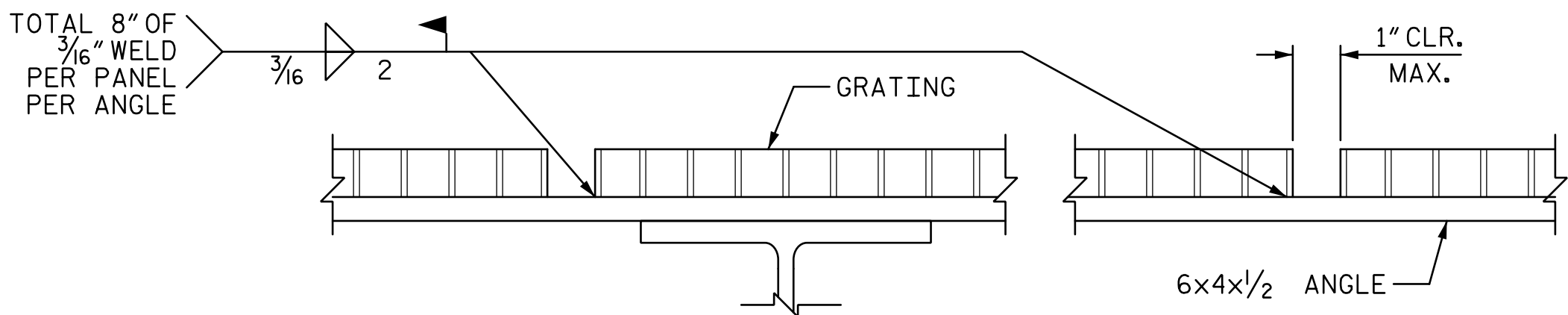
TIMBER: TIMBER TIES AND GUARDRAIL SHALL BE CREOSOTE TREATED SOUTHERN YELLOW PINE, DENSE STRUCTURAL 65, LUMBER OF THE SOUTHERN PINE INSPECTION BUREAU.

FASTENERS: BOLTS, WASHERS, LAG SCREWS, ETC. SHALL BE IN ACCORDANCE WITH AREMA 7.1.6 "SPECIFICATION OF FASTENERS FOR TIMBER TRETTLES".

TIMBER GUARDRAIL: GUARDRAILS SHALL BE FASTENED TO EACH TIMBER BRIDGE TIE.

TIE ANCHORAGE: THE TIMBER TIES SHALL BE FASTENED TO THE BEAM FLANGES WITH 3/4" DIA. HOOK BOLTS, OR EQUAL AT EVERY OTHER TIE. TIMBER TIES SHALL BE DAPPED TO FIT TOP FLANGES OF BEAM AS SHOWN ON SHEET TITLED "TIMBER DECK AND WALKWAY DETAILS (1 OF 2)".

WALKWAY: WALKWAY GRATING SHALL BE RECTANGULAR WELDED GRATING MADE OF ASTM A569 STEEL, HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER FABRICATION. BEARING BARS ARE TO BE 1" X 1/8" AT 1 3/8" CENTERS, AND TWISTED SQ. BARS AT 4" CENTERS. HANDRAIL POST SHALL BE MADE OF ASTM A36 STEEL, HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER FABRICATION. GUY WIRE SHALL BE 3/8" DIA. GALVANIZED WIRE ROPE ANCHORED WITH GALVANIZED WIRE ROPE CLIPS (GALV. MALLEABLE IRON HEAVY DUTY CROSBY CLIPS AND ROPE THIMBLE).



SECTION A-A

TIMBER DECK AND WALKWAY QUANTITIES

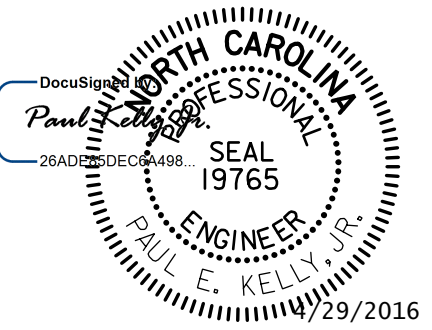
ITEMS	UNIT	QUANTITY
W6X25 OUTRIGGER BEAM	LBS.	3550
L6X4X1/2 STRINGER	LBS.	3176
L3X3X3/8 POSTS AND END BRACE	LBS.	664
WALKWAY GRATING	LBS.	2775
8" MIN. X 10" X 12'-0" TIE	EA.	27
8" MIN. X 10" X 12'-0" TIE W/ HOOK BOLT	EA.	23
5" X 8" TIMBER GUARD RAIL	LF.	105.3

TIMBER DECK AND WALKWAY QUANTITIES - ALTERNATE

ITEMS	UNIT	QUANTITY
W6X25 OUTRIGGER BEAM	LBS.	3550
L6X4X1/2 STRINGER	LBS.	3176
L3X3X3/8 POSTS AND END BRACE	LBS.	664
WALKWAY GRATING	LBS.	3440
8" MIN. X 10" X 10'-0" TIE	EA.	27
8" MIN. X 10" X 12'-0" TIE W/ HOOK BOLT	EA.	23
5" X 8" TIMBER GUARD RAIL	LF.	105.3

NOTES:

- FOR TEMPORARY SPAN GENERAL NOTES, SEE SHEET TITLED "TEMPORARY SPAN GENERAL NOTES".
- FOR TEMPORARY SPAN STRUCTURAL STEEL DETAILS, SEE SHEETS TITLED "TEMPORARY SPAN STRUCTURAL STEEL DETAILS".
- FOR ADDITIONAL NOTES AND DETAILS, SEE SHEET TITLED "TIMBER DECK AND WALKWAY DETAILS (1 OF 2)".
- FOR ALTERNATE TEMPORARY SPAN, SEE SHEET TITLED "TEMPORARY SPAN TYPICAL SECTION".



PROJECT NO. U-3308
DURHAM COUNTY

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SHEET 6 OF 16

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TIMBER DECK AND
WALKWAY DETAILS
(SHEET 2 OF 2)

DRAWN BY : NMC DATE : 06-14
CHECKED BY : DJM DATE : 06-14

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