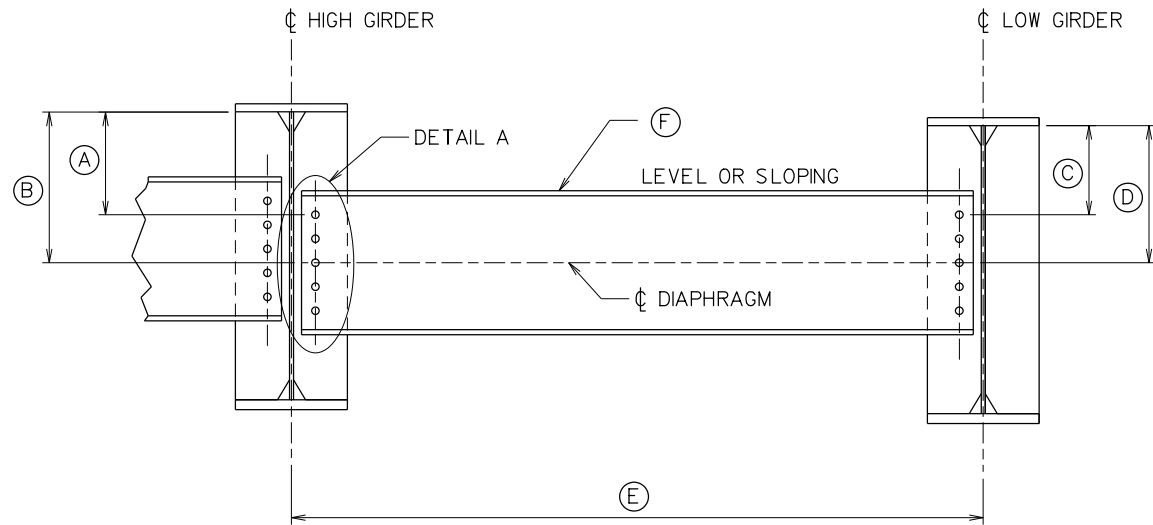
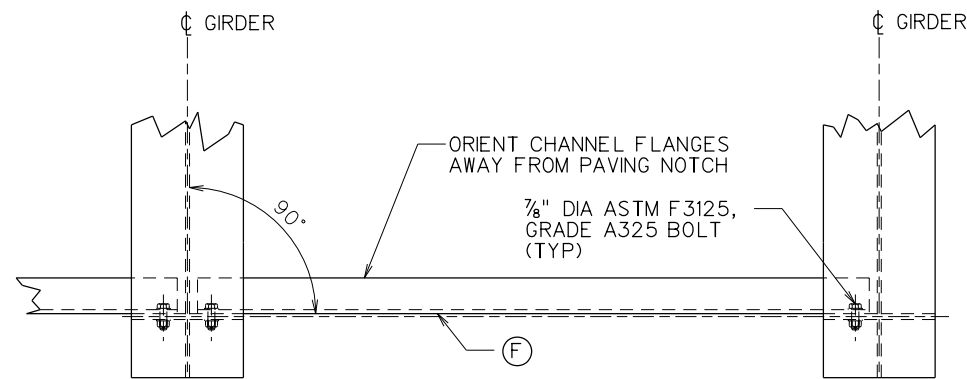


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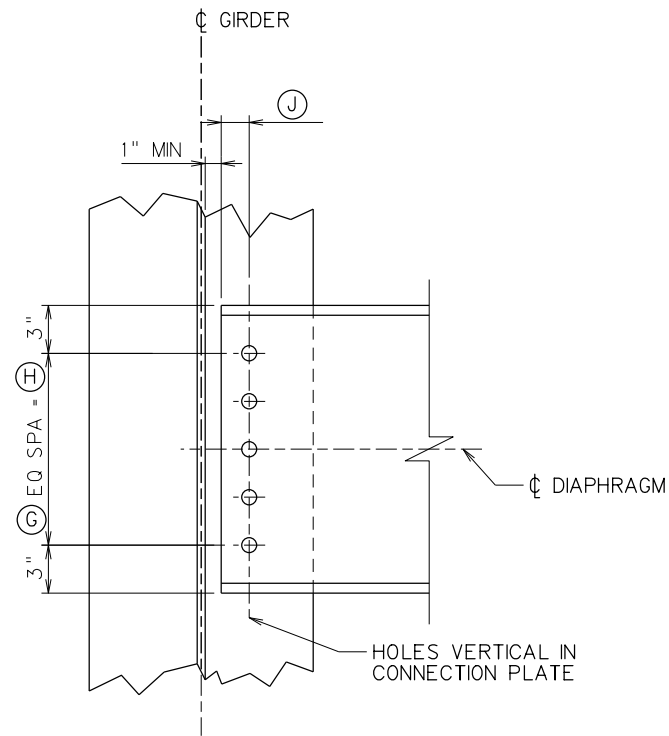
ABUTMENT DIAPHRAGM ELEVATION



ABUTMENT DIAPHRAGM PLAN

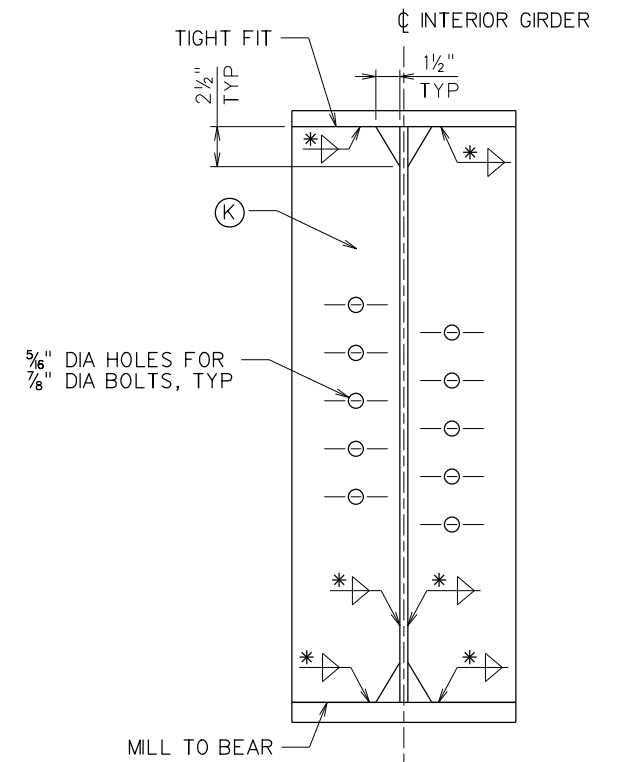
| * WELD SIZES         |                  |
|----------------------|------------------|
| PLATE THICKNESS      | WELD SIZE        |
| $< \frac{3}{4}$ "    | $\frac{1}{4}$ "  |
| $\geq \frac{3}{4}$ " | $\frac{5}{16}$ " |

NOTE: SEE FRAMING PLAN  
FOR GIRDER DIMENSIONS

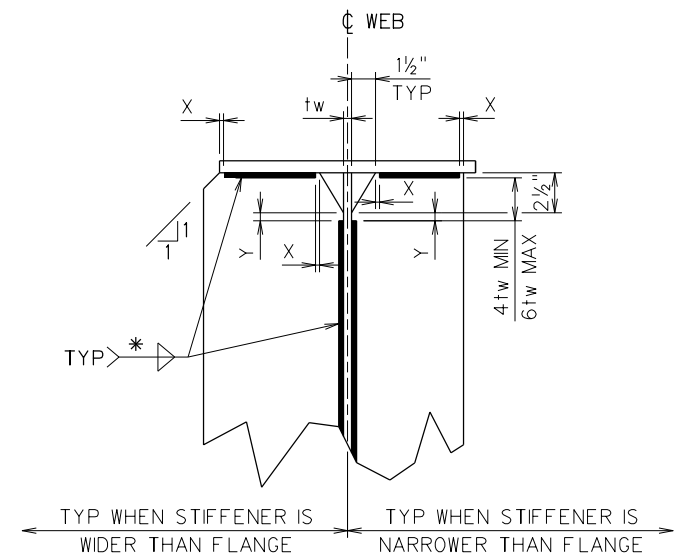


DETAIL A

| CONTROL DIMENSIONS |                                                                |           |
|--------------------|----------------------------------------------------------------|-----------|
| CODE               | DESCRIPTION                                                    | DIMENSION |
| A                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| B                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| C                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| D                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| E                  | CENTER TO CENTER GIRDER SPACING                                | _____     |
| F                  | DIAPHRAGM-C CHANNEL SIZE                                       | _____     |
| G                  | NUMBER OF BOLT SPACES                                          | _____     |
| H                  | DISTANCE OF TOTAL BOLT SPACING                                 | _____     |
| J                  | MINIMUM BOLT CLEARANCE FROM END                                | _____     |
| K                  | PLATE SIZE WxHxt                                               | _____     |



BEARING STIFFENER  
LOOKING AHEAD STATION

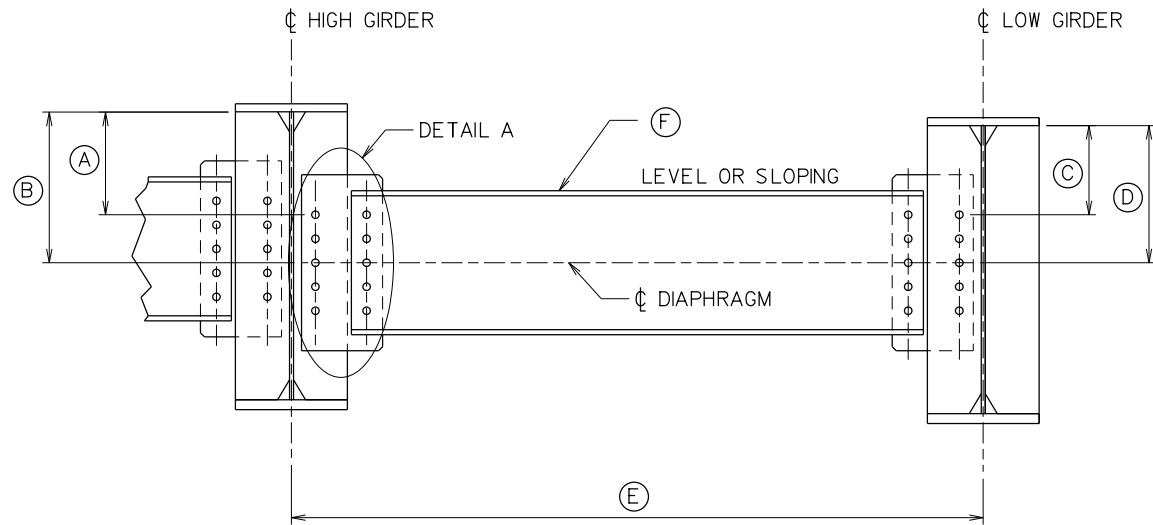


WELDING DETAIL AT END  
OF STIFFENER OR  
CONNECTION PLATE

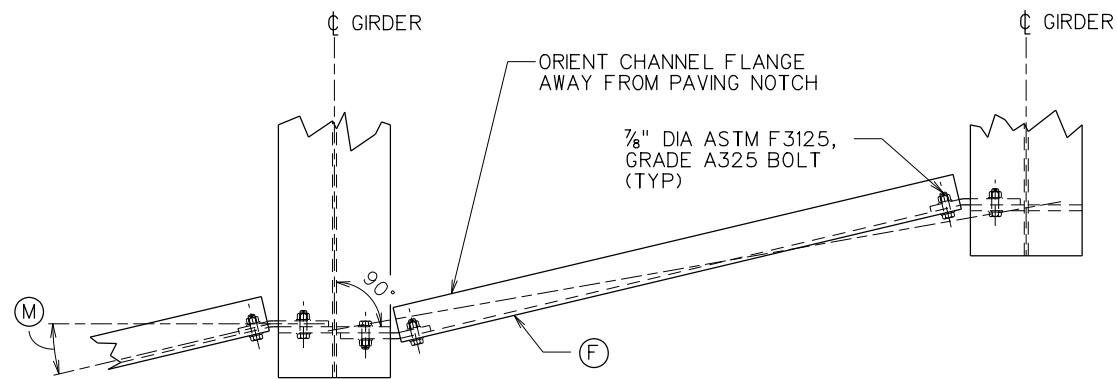
NOT TO SCALE

|     |          |      |    |                                                                    |  |  |  |                                                    |  |                                                  |  |                                                                                           |  |
|-----|----------|------|----|--------------------------------------------------------------------|--|--|--|----------------------------------------------------|--|--------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|
|     |          |      |    | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS |  |  |  | DESIGNED _____ DATE _____ CHECKED _____ DATE _____ |  | DRAWN _____ DATE _____ REVIEWED _____ DATE _____ |  | STANDARD BRIDGE PLANS<br>ABUTMENT DIAPHRAGM<br>C CHANNEL NO SKEW<br>SHEET NUMBER 110QD11A |  |
| NO. | REVISION | DATE | BY |                                                                    |  |  |  |                                                    |  |                                                  |  |                                                                                           |  |

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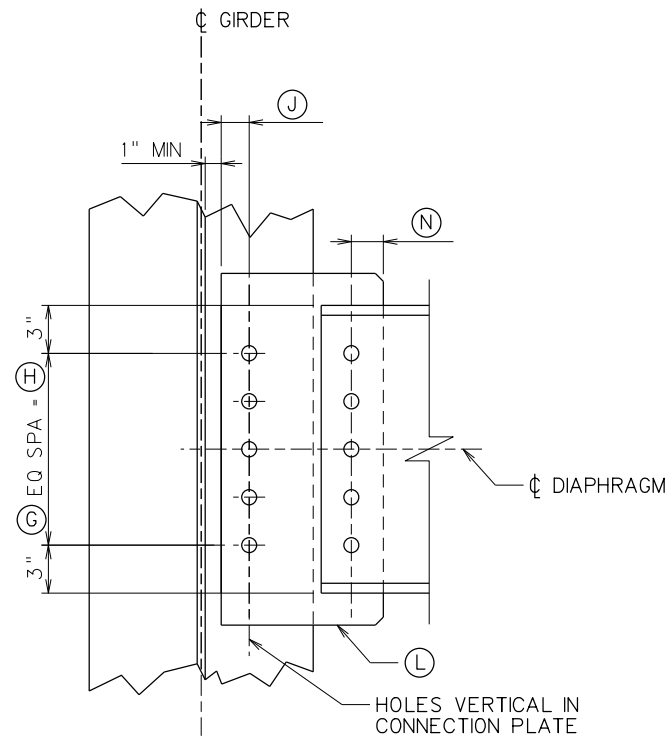
ABUTMENT DIAPHRAGM ELEVATION



ABUTMENT DIAPHRAGM PLAN

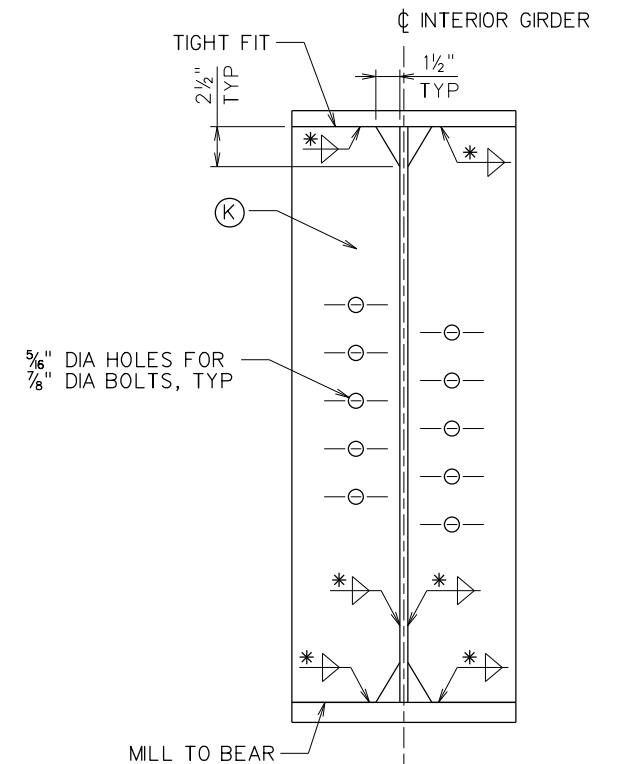
| * WELD SIZES        |                 |
|---------------------|-----------------|
| PLATE THICKNESS     | WELD SIZE       |
| $< \frac{3}{4}"$    | $\frac{1}{4}"$  |
| $\geq \frac{3}{4}"$ | $\frac{5}{16}"$ |

NOTE: SEE FRAMING PLAN FOR GIRDER  
DIMENSIONS AND SKEW ANGLES



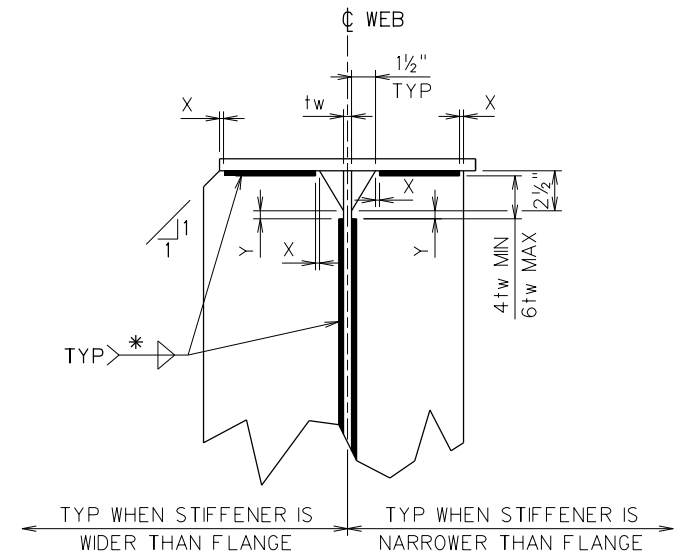
DETAIL A

| CONTROL DIMENSIONS |                                                                |           |
|--------------------|----------------------------------------------------------------|-----------|
| CODE               | DESCRIPTION                                                    | DIMENSION |
| A                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| B                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| C                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| D                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| E                  | CENTER TO CENTER GIRDER SPACING                                | _____     |
| F                  | DIAPHRAGM-C CHANNEL SIZE                                       | _____     |
| G                  | NUMBER OF BOLT SPACES                                          | _____     |
| H                  | DISTANCE OF TOTAL BOLT SPACING                                 | _____     |
| J                  | MINIMUM BOLT CLEARANCE FROM END                                | _____     |
| K                  | PLATE SIZE WxHxt                                               | _____     |
| L                  | BENT PLATE SIZE WxHxt                                          | _____     |
| M                  | ANGLE OF BEND ON CONNECTION PLATE                              | _____     |
| N                  | TO CENTER OF HOLE FOR BENT PLATE                               | _____     |



BEARING STIFFENER

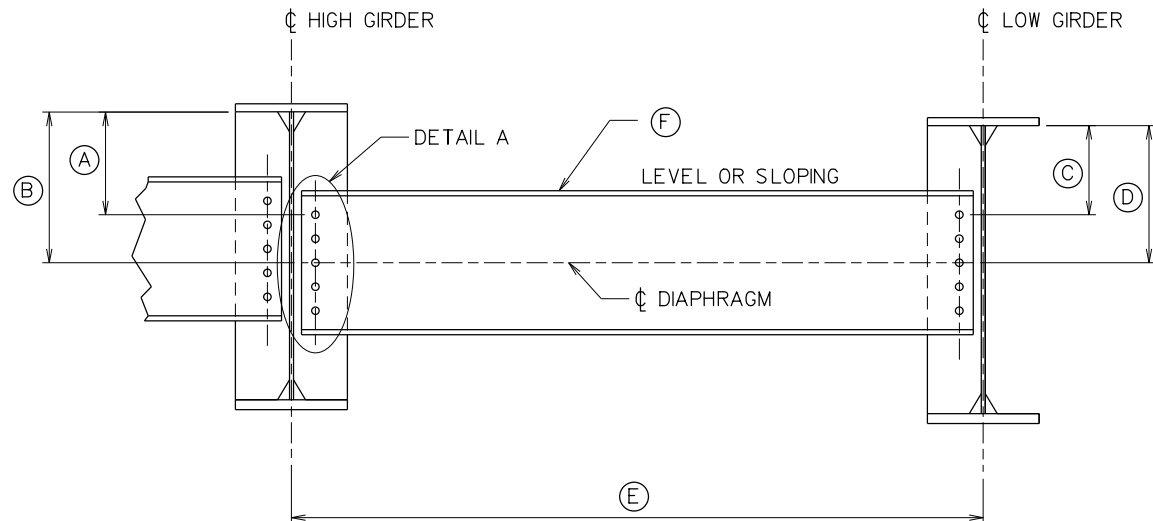
LOOKING AHEAD STATION



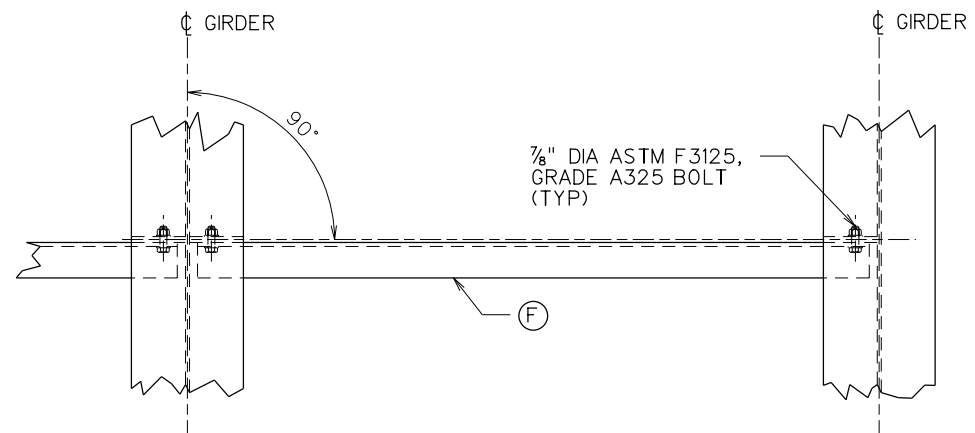
WELDING DETAIL AT END  
OF STIFFENER OR  
CONNECTION PLATE

NOT TO SCALE

|     |          |      |    |                                                                    |  |  |  |                                                    |  |  |  |                                                  |  |  |  |                                                                                          |  |  |  |
|-----|----------|------|----|--------------------------------------------------------------------|--|--|--|----------------------------------------------------|--|--|--|--------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------|--|--|--|
|     |          |      |    | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS |  |  |  | DESIGNED _____ DATE _____ CHECKED _____ DATE _____ |  |  |  | DRAWN _____ DATE _____ REVIEWED _____ DATE _____ |  |  |  | STANDARD BRIDGE PLANS<br>ABUTMENT DIAPHRAGM<br>C CHANNEL SKEWED<br>SHEET NUMBER 1100D12A |  |  |  |
| NO. | REVISION | DATE | BY |                                                                    |  |  |  |                                                    |  |  |  |                                                  |  |  |  |                                                                                          |  |  |  |



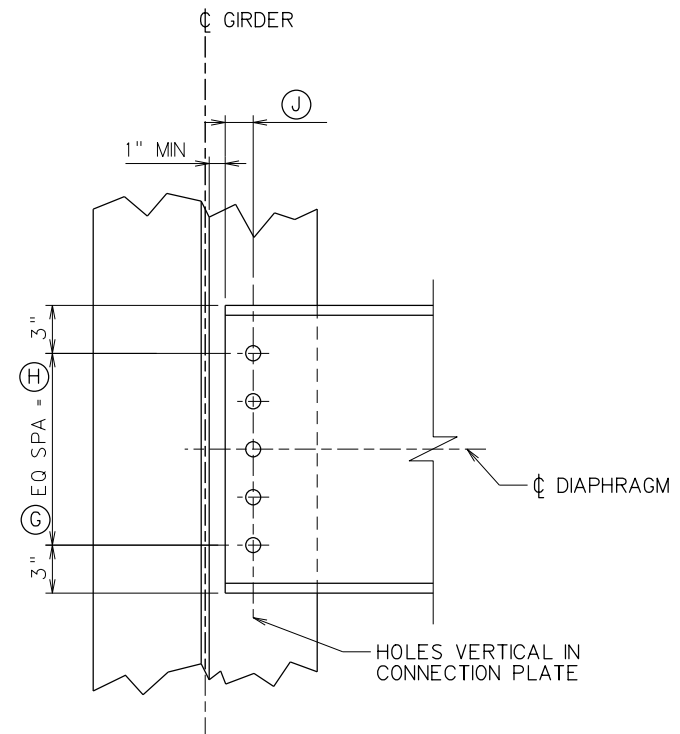
### INTERMEDIATE DIAPHRAGM ELEVATION



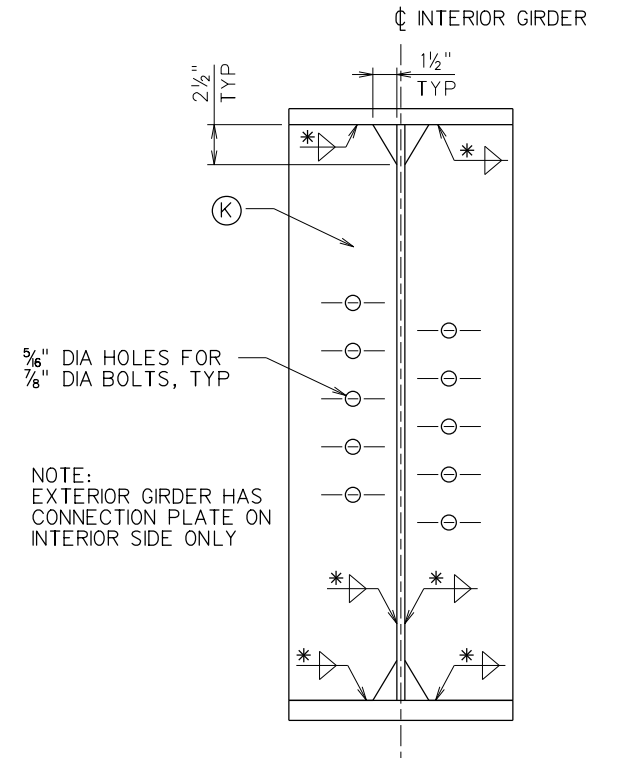
### INTERMEDIATE DIAPHRAGM PLAN

| * WELD SIZES         |                  |
|----------------------|------------------|
| PLATE THICKNESS      | WELD SIZE        |
| $< \frac{3}{4}''$    | $\frac{1}{4}''$  |
| $\geq \frac{3}{4}''$ | $\frac{5}{16}''$ |

NOTE: SEE FRAMING PLAN  
FOR GIRDER DIMENSIONS



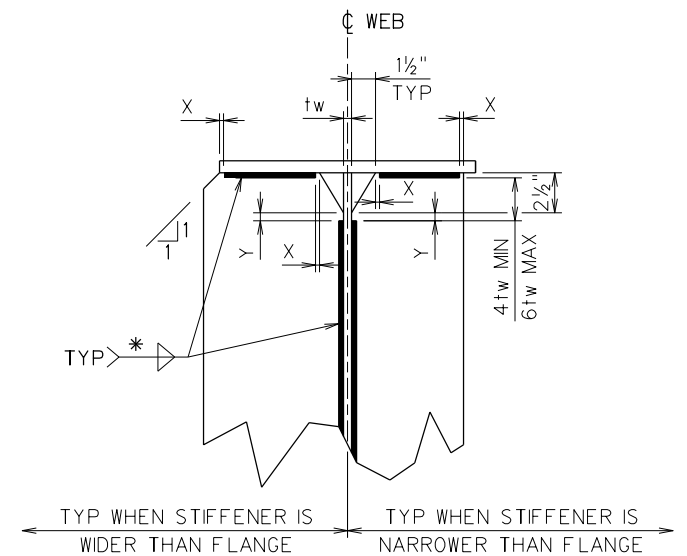
### DETAIL A



### CONNECTION PLATE

LOOKING AHEAD STATION

| CONTROL DIMENSIONS |                                                                |           |
|--------------------|----------------------------------------------------------------|-----------|
| CODE               | DESCRIPTION                                                    | DIMENSION |
| A                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| B                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| C                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| D                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| E                  | CENTER TO CENTER GIRDER SPACING                                | _____     |
| F                  | DIAPHRAGM-C CHANNEL SIZE                                       | _____     |
| G                  | NUMBER OF BOLT SPACES                                          | _____     |
| H                  | DISTANCE OF TOTAL BOLT SPACING                                 | _____     |
| J                  | MINIMUM BOLT CLEARANCE FROM END                                | _____     |
| K                  | PLATE SIZE WxHx t                                              | _____     |

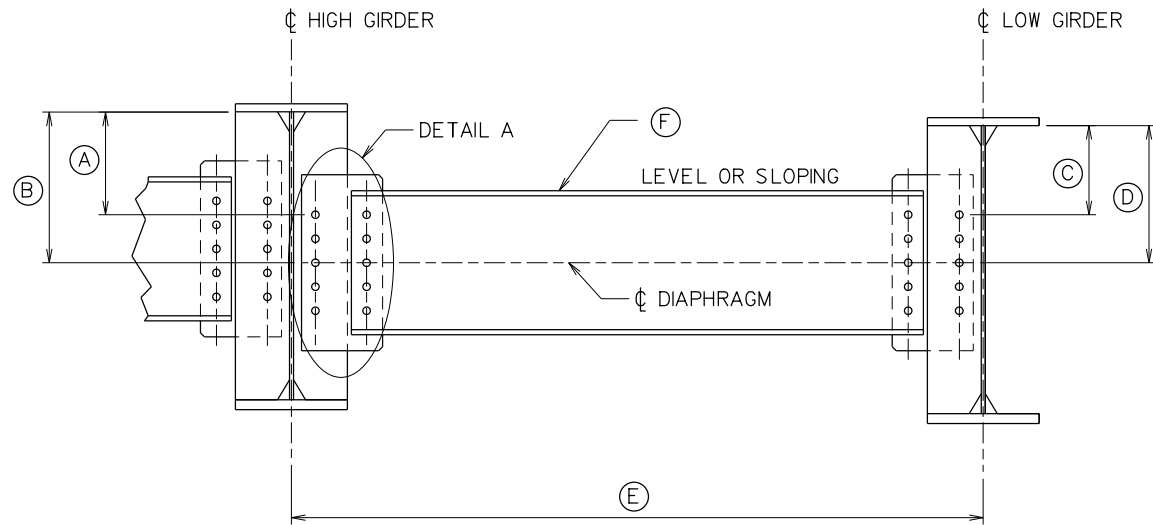


**WELDING DETAIL AT END  
OF STIFFENER OR  
CONNECTION PLATE**

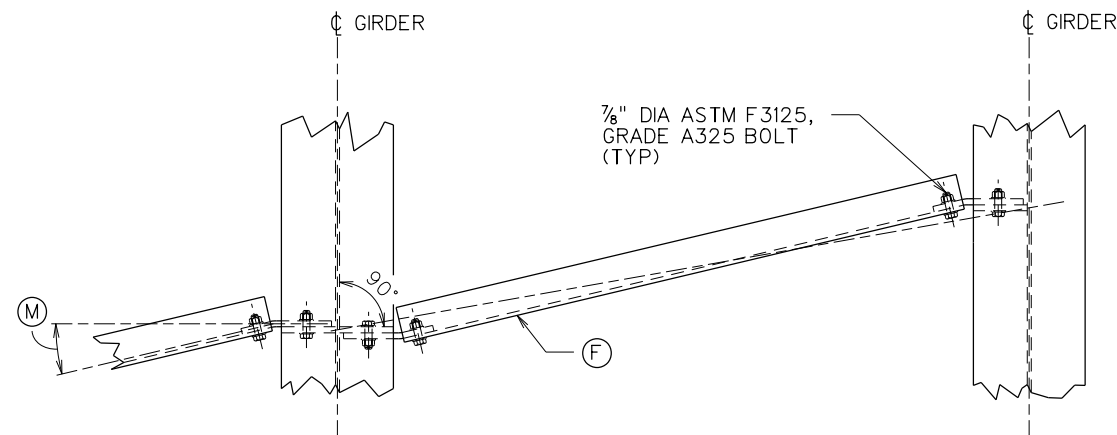
NOT TO SCALE

|     |          |      |    |                                                                    |          |      |          |      |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                             |
|-----|----------|------|----|--------------------------------------------------------------------|----------|------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |          |      |    | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS | DESIGNED | DATE | CHECKED  | DATE | <div style="border-bottom: 1px dashed black; height: 15px; width: 100%;"></div> <div style="border-bottom: 1px dashed black; height: 15px; width: 100%;"></div> <div style="border-bottom: 1px dashed black; height: 15px; width: 100%;"></div> | <div style="text-align: center;">STANDARD BRIDGE PLANS</div> <div style="text-align: center; font-size: 1.2em;">INTERMEDIATE DIAPHRAGM</div> <div style="text-align: center; font-size: 1.5em;">C CHANNEL</div> <div style="text-align: center;">SHEET NUMBER 1100DI4</div> |
|     |          |      |    |                                                                    | ____     | ____ | ____     | ____ |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                             |
|     |          |      |    |                                                                    | DRAWN    | DATE | REVIEWED | DATE |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                             |
| NO. | REVISION | DATE | BY |                                                                    | ____     | ____ | ____     | ____ |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                             |

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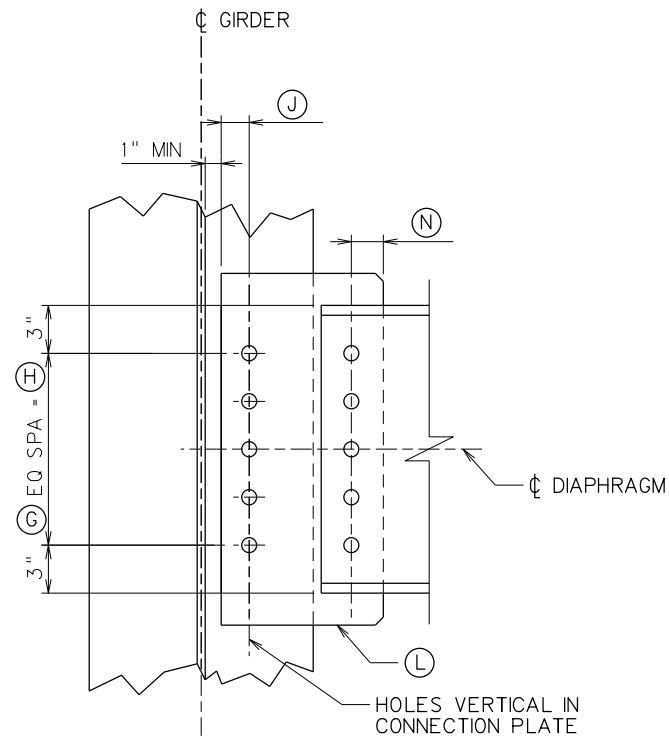
INTERMEDIATE DIAPHRAGM ELEVATION



INTERMEDIATE DIAPHRAGM PLAN

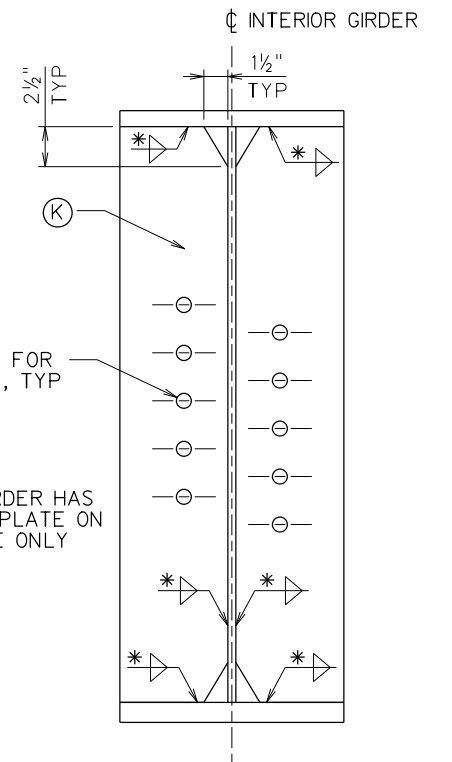
| * WELD SIZES         |                  |
|----------------------|------------------|
| PLATE THICKNESS      | WELD SIZE        |
| $< \frac{3}{4}$ "    | $\frac{1}{4}$ "  |
| $\geq \frac{3}{4}$ " | $\frac{5}{16}$ " |

NOTE: SEE FRAMING PLAN FOR GIRDER  
DIMENSIONS AND SKEW ANGLES

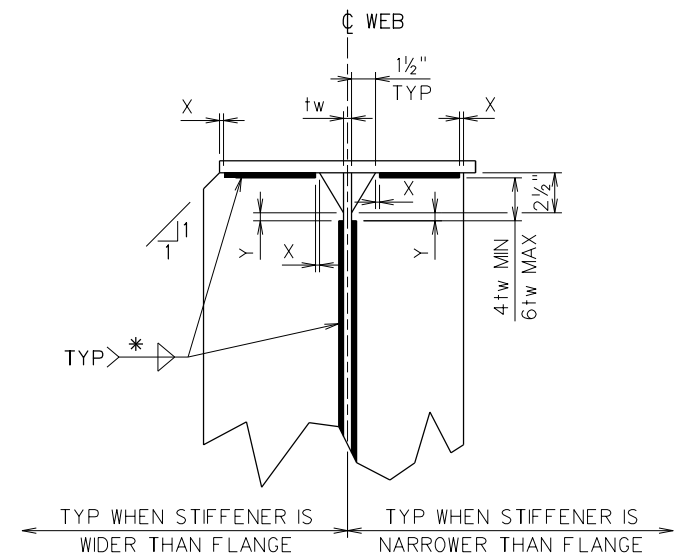


DETAIL A

| CONTROL DIMENSIONS |                                                                |           |
|--------------------|----------------------------------------------------------------|-----------|
| CODE               | DESCRIPTION                                                    | DIMENSION |
| A                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| B                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| C                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER OF UPPER BOLT     | _____     |
| D                  | DISTANCE FROM BOTTOM OF TOP FLANGE TO CENTER LINE OF DIAPHRAGM | _____     |
| E                  | CENTER TO CENTER GIRDER SPACING                                | _____     |
| F                  | DIAPHRAGM-C CHANNEL SIZE                                       | _____     |
| G                  | NUMBER OF BOLT SPACES                                          | _____     |
| H                  | DISTANCE OF TOTAL BOLT SPACING                                 | _____     |
| J                  | MINIMUM BOLT CLEARANCE FROM END                                | _____     |
| K                  | PLATE SIZE WxHxt                                               | _____     |
| L                  | BENT PLATE SIZE WxHxt                                          | _____     |
| M                  | ANGLE OF BEND ON CONNECTION PLATE                              | _____     |
| N                  | TO CENTER OF HOLE FOR BENT PLATE                               | _____     |



CONNECTION PLATE  
LOOKING AHEAD STATION



WELDING DETAIL AT END  
OF STIFFENER OR  
CONNECTION PLATE

NOT TO SCALE

|     |          |      |    |                                                                    |  |  |  |                                                    |  |                                                  |  |                                                                                              |  |
|-----|----------|------|----|--------------------------------------------------------------------|--|--|--|----------------------------------------------------|--|--------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|
|     |          |      |    | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS |  |  |  | DESIGNED _____ DATE _____ CHECKED _____ DATE _____ |  | DRAWN _____ DATE _____ REVIEWED _____ DATE _____ |  | STANDARD BRIDGE PLANS<br>INTERMEDIATE DIAPHRAGM<br>C CHANNEL SKEWED<br>SHEET NUMBER 1100D14A |  |
| NO. | REVISION | DATE | BY |                                                                    |  |  |  |                                                    |  |                                                  |  |                                                                                              |  |

2-FEB-2022 14:58