GIRDER SCHEDULE

Girder Type	Girder Number	Number Required	LT. = Lt. Exterior RT. = Rt. Exterior	Span Number	Span Length ctr. - ctr. Bearings along Girder ℄	"A", o-o Girder (Horiz. length after shortening)	Girder Weight, kips	Concrete Strength @ 28 Days, ksi	Concrete Strength @ Release, ksi	Initial Tension per Strand, kips	Number of Strands per Girder, "N"	Deflected Strands per girder, "D_S"	Figure Number for Strand Pattern	Reinforcing Bars: Stirrup spaces "a"	Reinforcing Bars: Stirrup spaces "b"	Reinforcing Bars: (Stirrup leg) "m"	Diaphragm (Negative Value Indicates back from midspan): "D_L"	Diaphragm: "D_R"	Back End (On Stationing): End Block	Back End: Negative Value Indicates Point beyond Girder End "F_L"	Back End: "E_L"	Back End: "E_R"	Back End: "F_R"	Ahead End (On Stationing): End Block	Ahead End: Negative Value Indicates Point beyond Girder End "F_L"	Ahead End: "E_L"	Ahead End: "E_R"	Ahead End: "F_R"	Estimated Midspan Deflection, in.: Upward at Release	Upward 3 months after Release	Down Due to Non-Comp. Dead Load	Down Due to Comp. Dead Load	Est. Shortening 2 weeks after Release, in.

FIGURES

FIGURE 1

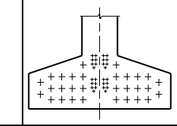


FIGURE 2

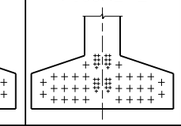
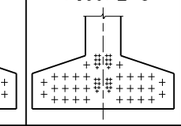


FIGURE 3



	Back	Ahead	Back	Ahead	Back	Ahead
"N"						
"D_S"						
"y_c"						
"h_c"						
"y_e"						
"h_e"						

FIGURE 4

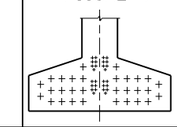


FIGURE 5

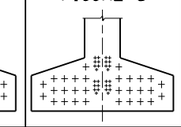
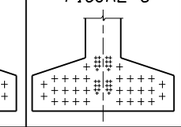


FIGURE 6



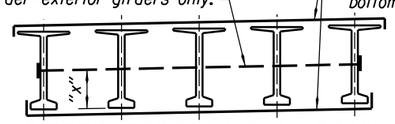
	Back	Ahead	Back	Ahead	Back	Ahead
"N"						
"D_S"						
"y_c"						
"h_c"						
"y_e"						
"h_e"						

Note:
Transport members in accordance with Section 00550.49 of the Standard Specifications for Highway Construction. Place members no less than _____ days after casting.

> **NOTE TO DESIGNER**
> Remove note if 7 day transport and placement is okay without placement restrictions.

(Alternate A)
One cable restraint at each Beam D. After restraint is removed, fill hole with concrete and finish flush with surface of girder-exterior girders only.

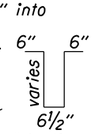
(Alternate B)
Cable restraints top and bottom at each Beam D.



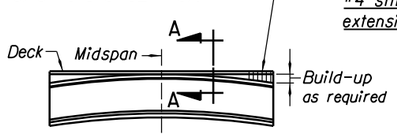
GIRDER RESTRAINT DIAGRAM

Note:
Snug fit prestressed giders against forms prior to diaphragm pour. Keep restraints in place a minimum of two days after completion of diaphragm pour.

When the girder build-up exceeds 3" and/or the girder stirrups extend less than 2" into the deck, add #4 stirrup extensions. Place stirrup extensions at each girder stirrups and tie to the girder stirrup. Where girder stirrup spacing is 6" or less, place stirrup extentions @ 12" max.

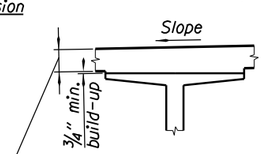


#4 stirrup extension



Ensure girder soffits are on level grade prior to prestressing. Use build-up over girders to compensate for the difference between deck elevation and girder camber.

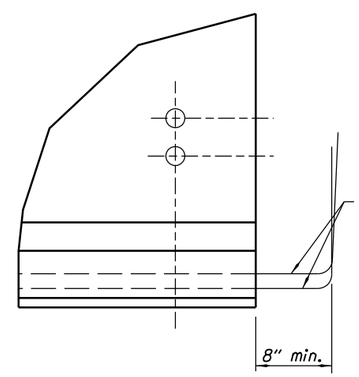
BUILD - UP DECK DETAIL



Minimum deck thickness. This dimension assumes girder fabrication and erection will meet the required deck elevations. In case of variations, lower girder to meet corrected elevation.

SECTION A-A

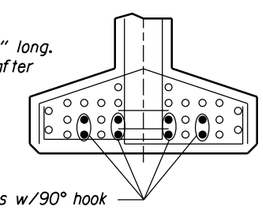
> **NOTE TO DESIGNER**
> Design girders using ¾" min. build-up over girders.



PARTIAL END EVEVATION

> **NOTE TO DESIGNER**
> Modify dimensions and locations of extended strands as required by the design.

Extend ___ strands, ___ " long. Bend strands as shown after forms are removed.



Extended strands w/90° hook

PARTIAL END VIEW

STRAND EXTENSION DETAIL

Notes:
For Bulb-T Girder general details, see dwg. BR310.
For temporary diaphragm beam details, see dwg. BR350.

Accompanied by dwgs. BR310 and BR350.

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
DETAILS

BULB-T GIRDER SCHEDULE AND MISCELLANEOUS DETAILS

DETAIL NO. DET3315