

LOCATIONS

Floor Beam	Beam
L_1	(5), (6) & (8)
L'_1	(2)
L'_0	(2)

BEAM REACTION TABLE
 (For Interior Beams in Span 3)
 (Data taken from existing plans)

	Beam Reaction
R_{ϕ} (k)	15.5
R'_L (k)	38.1
R'_{IM} (k)	11.4
R_{Total} (k)	65.0

NOTES:

Two hardened washers shall be required for each set of oversized holes.

All work on this Sheet, including the removal of all Welds, drilling of holes and Furnishing & Erecting Bolts & Washers is included with Structural Steel Repair.

See Sht's. S5 & S6 for locations of these repairs.

The Resident Engineer may add gusset plate removal & replacement and end of Beam repair in field if necessary.

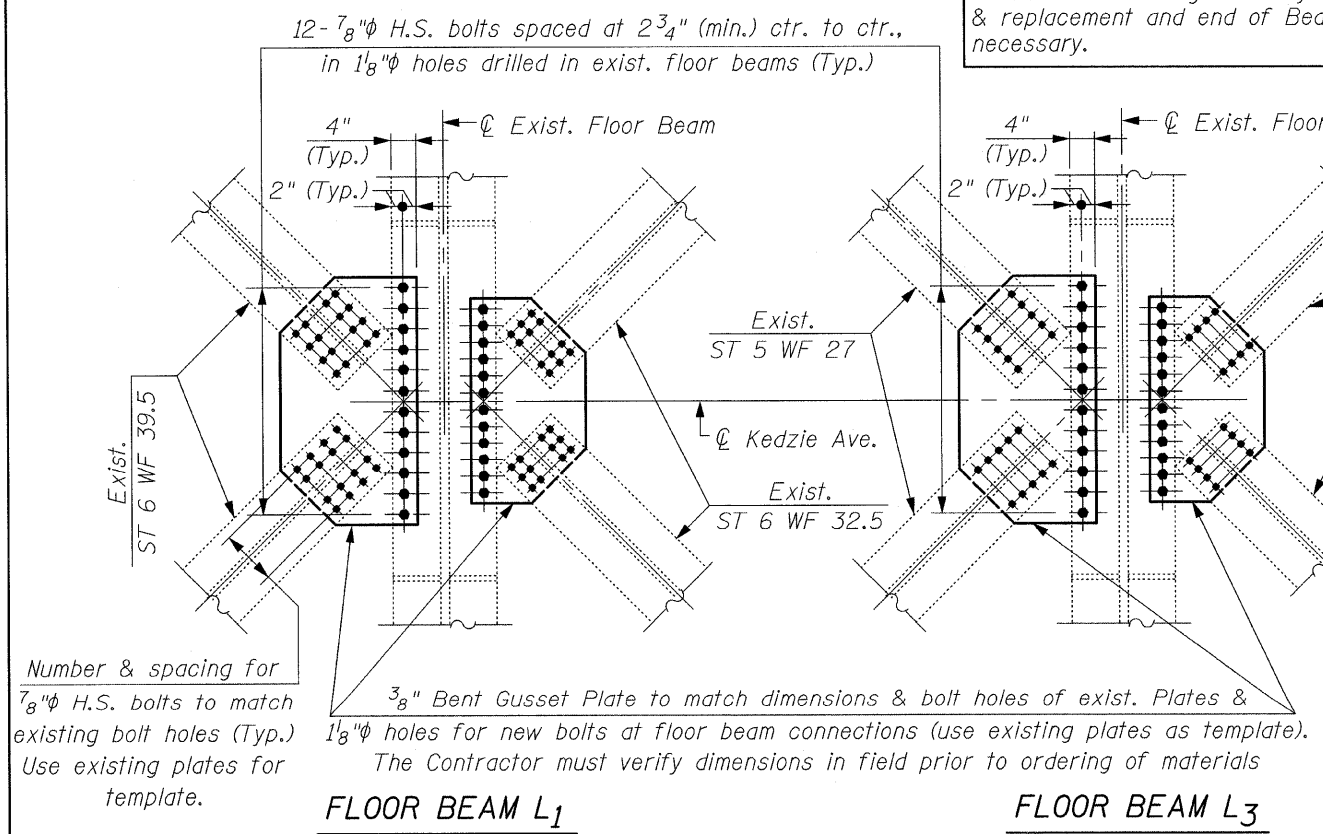
CRACK ARRESTOR HOLE DETAIL

NOTE "A":
 Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill $\frac{1}{16}"$ min. ϕ Crack Arrestor Hole at the crack tip. After Crack Arrestor Hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the crack tip. Cost shall be included with Structural Steel Repair.

NOTE "B":
 Crack in beam, see Crack Arrestor Hole Detail.

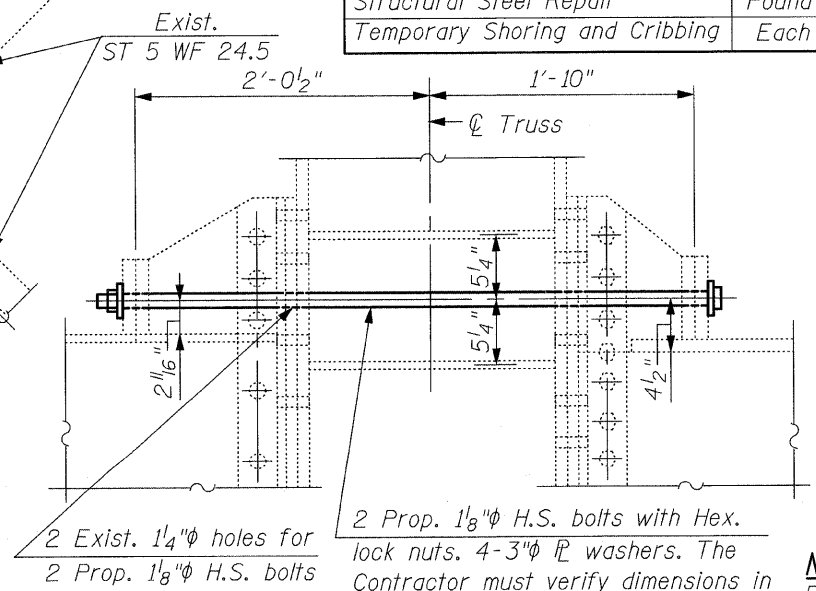
BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,300
Temporary Shoring and Cribbing	Each	5

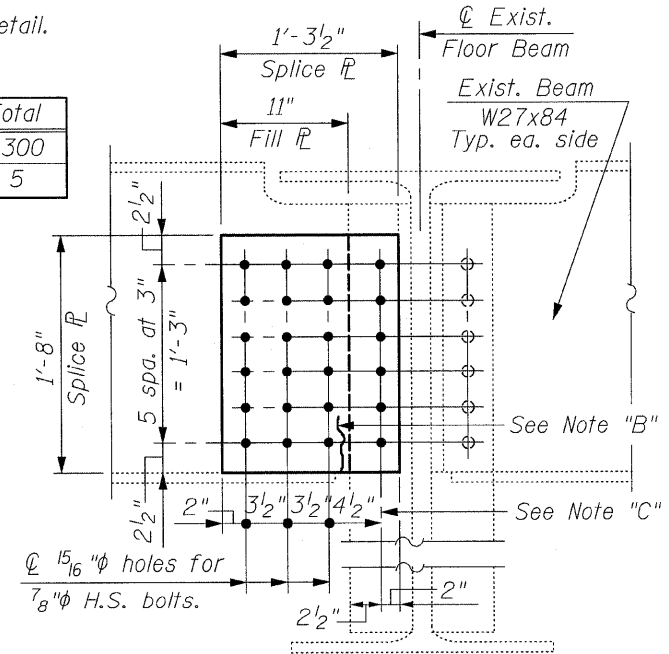


Number & spacing for $\frac{7}{8}"$ ϕ H.S. bolts to match existing bolt holes (Typ.) Use existing plates for template.

REMOVAL & REPLACEMENT OF BOTTOM LATERAL GUSSET PLATES



REMOVAL & REPLACEMENT OF TIE RODS



NOTE "C":
 Exist. bolts to be removed and replaced with $\frac{7}{8}"$ ϕ H.S. bolts. The Contractor must verify, in the field, spacing of the exist. bolt holes. Temporary support of beams is required. See Beam Reaction Table, above. Cost shall be included with Temporary Shoring and Cribbing.