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Bethlehem- 8" Stands (#14 & #15)

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23 February 1966

TO: Ray Smola
SUBJECT: BETHLEHEM - 8" STANDS (#14 & #15)

1. 35 T. Gear on Roll Shafts

Hand of helix will follow 6" stand rules. See 165166 (STELCO).

Data accompanies this note. There is tip relief but no helix modification.

2. Offset of Front Bearing Holes

To obtain a better alignment condition at the rear bearing on the roll shaft, we are recommending obtaining the helix modification needed by "offset". This was done for Reynolds (see 24 September '65 memo by M. Knott). The amount each of the front bearing holes are offset is .006" - in the direction to make the roll shafts converge towards the roll end.

3. Fit-Up of Eccentrics in Roll Housing

$\frac{7.4985}{7.4975}$	$\frac{7.500}{7.5015}$	HOLE DIAM.
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Eccentric in bore

4. Taper on Roll Shaft

See J. B. 's sketch which accompanies this note.

5. Driven Bevel Gear Shaft

The torque on this shaft is not much greater than that on Stand #16 - 24%. Recommend using same shaft ^{at bevel gear} for Stands #14 and 15 (at bevel gears) as for Stand #16. Note that helical gear is wider.

Maurice Knott

MK/cac