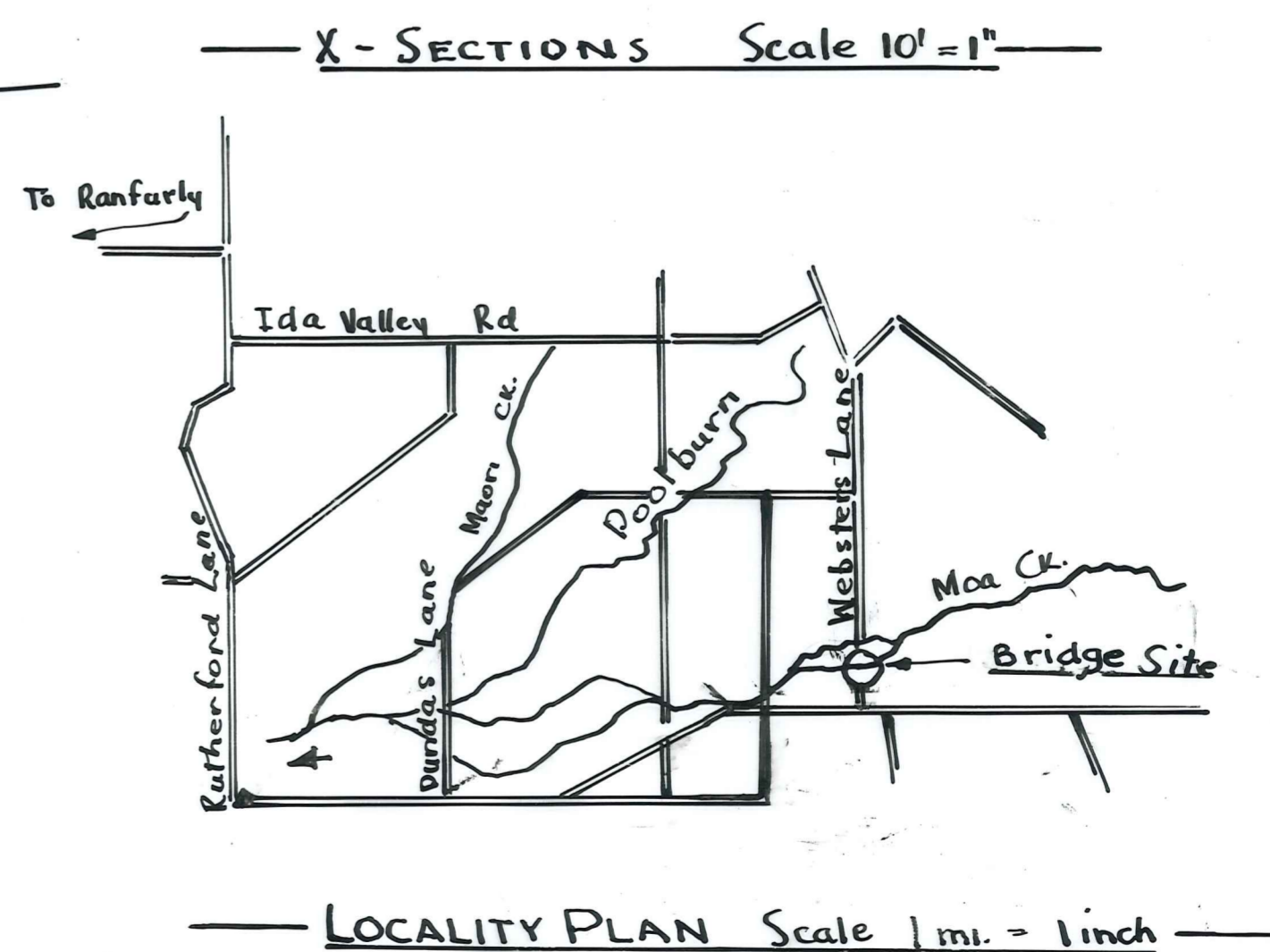


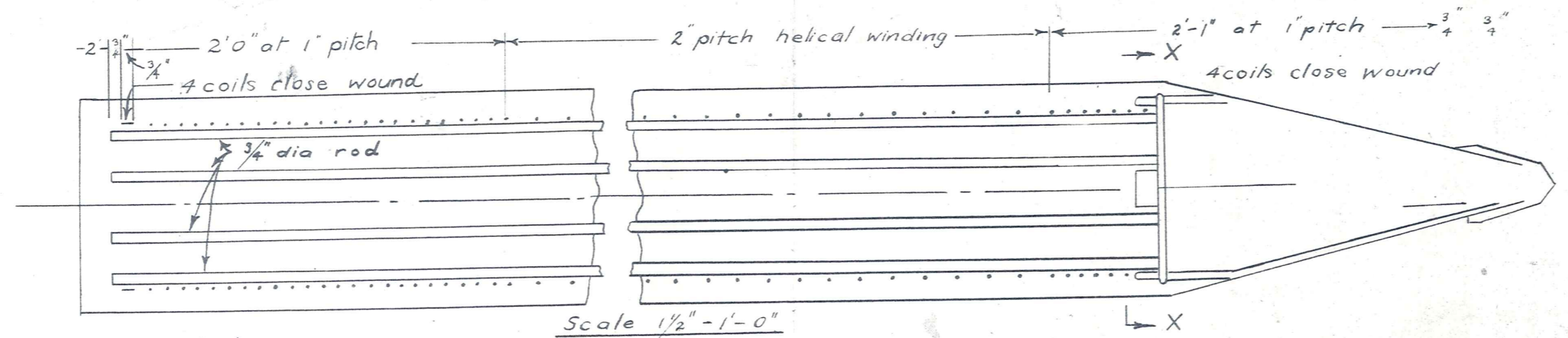
DATUM 40.0'

DISTANCE	FORMATION LEVEL	EXIST. RD & LEVEL	PEG LEVEL
1.0	51.2	51.2	50.23
3.0	51.9	51.2	49.99
5.0	52.2	51.5	50.00
6.0	52.4	52.5	49.27
7.0	52.4	51.5	49.32
8.0	52.8	51.0	50.07
9.0	52.6	50.3	50.07
11.0	52.3	51.5	50.46
13.0	56.0	57.4	58.49
	62.3	62.0	62.0

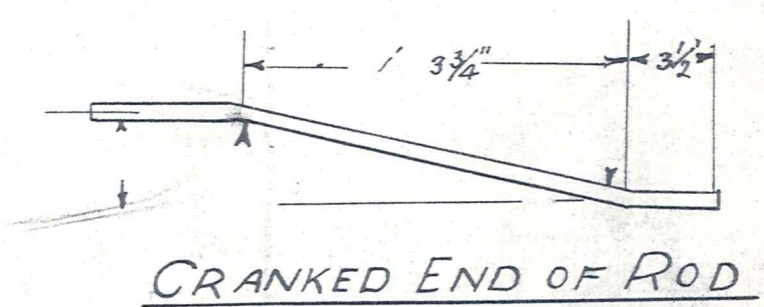
LONG SECTION Scales - Vert. 10' = 1" Horiz. 1ch = 1"



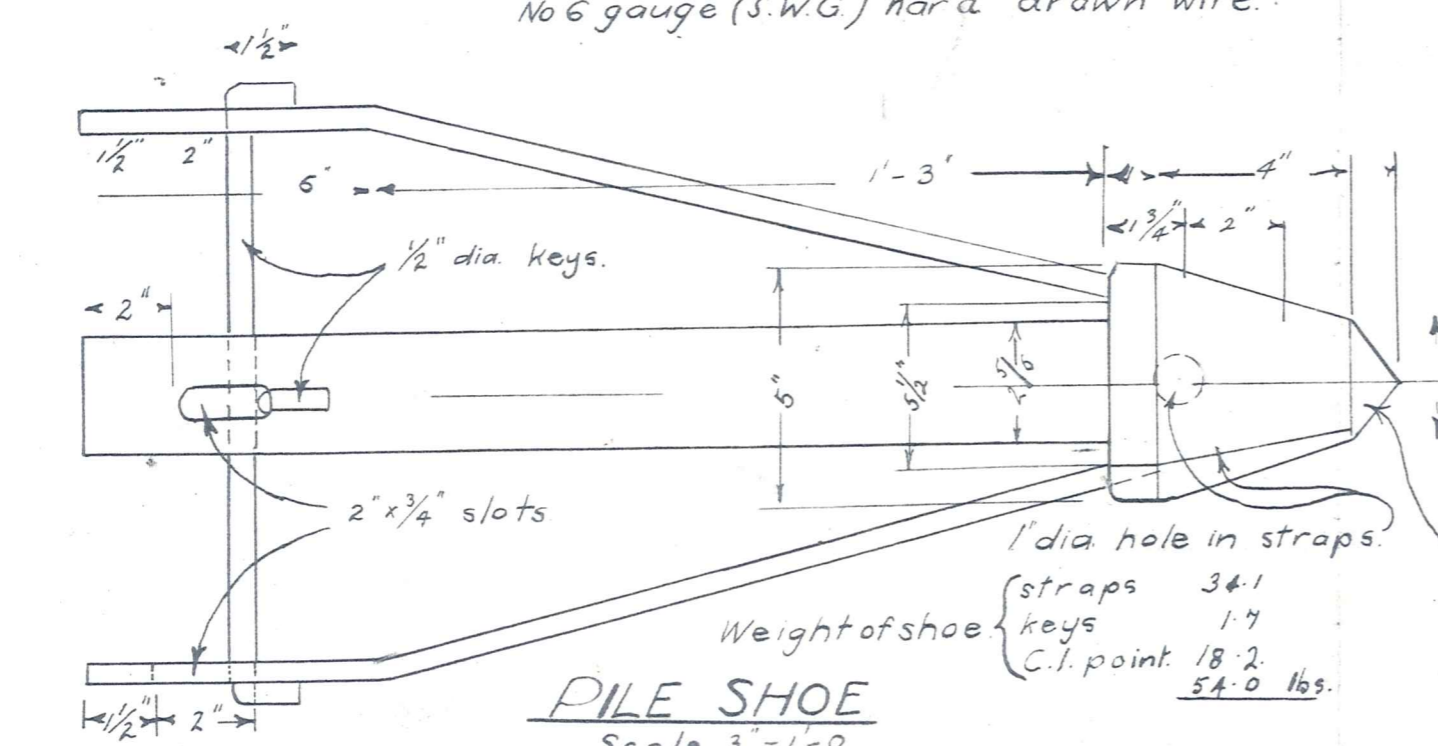




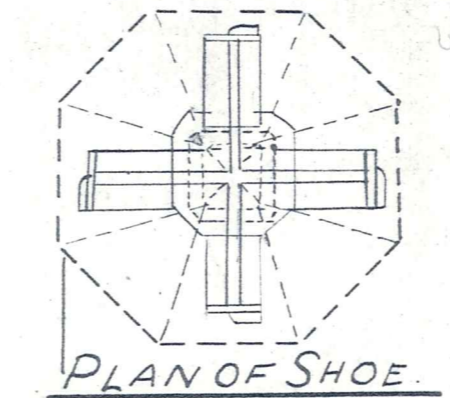
Note: Piles wound Helically with No 6 gauge (S.W.G.) hard drawn wire.



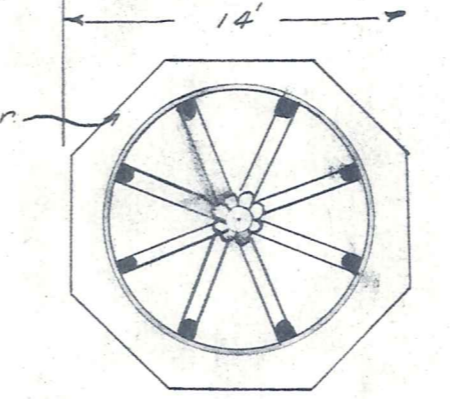
CRANKED END OF ROD



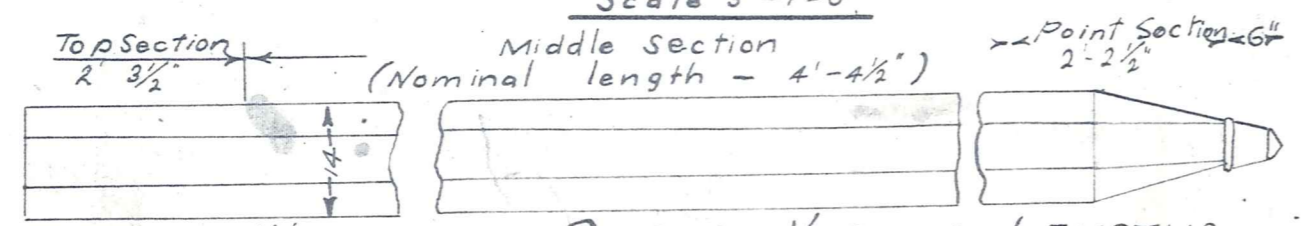
PILE SHOE  
Scale 3"-1'-0"



PLAN OF SHOE



SECTION X-X  
Scale 1/2"-1'-0"



WEIGHTS OF PILES OF VARIOUS LENGTHS.

Nominal length in ft.	10	15	20	25	30	35	40	45	50	55	60.
Weight in tons.	0.73	1.11	1.48	1.86	2.24	2.62	2.99	3.37	3.75	4.12	4.50.

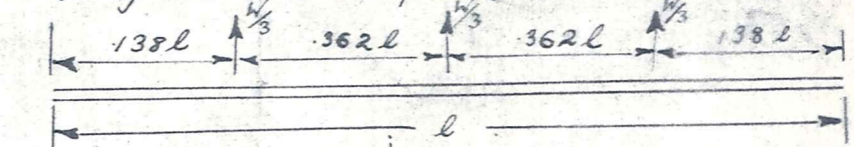
- Maximum allowable load on 14" pile is 25 tons.
- If length is less than 30 ft a 3 ton monkey may be used. If length is over 30 ft a 4 ton monkey must be used.
- Nominal length of pile length of reinforcing steel.

QUANTITIES.

14 in Octagonal Pile.	Concrete (Cub. ft)	3/4" dia rock (lin. ft.)	No. 6g. Wire (lin. ft.)
Top section 2'-3 1/2" long	2.594	17	80
Middle section per. ft. run	1.127	8	17
Point section 2'-2 1/2" long	1.562	18	53.

METHODS OF LIFTING AND HANDLING PILES

- Piles under 17 ft long, may be slung from a single point located anywhere along the pile.
- Piles from 17 ft to 29 ft long maybe slung from a single point located a distance of .293L from the pile head.
- Piles over 29 ft and up to 40 ft shall be slung from two points located a distance of 0.207L from each end.
- Piles over 40 ft and up to 60 ft long shall be slung from three points as indicated below.



The maximum length of pile to be used under any condition is 60 ft, but for the condition where the ends may be restricted in position but not in direction the maximum length to be used is 30 ft.

For arrangements involving more than two points of pick up, a suitable system of pulleys and or beam must be used to give equal vertical reactions at each point.

Note:

The above is based on a static stress of 6,000 lbs/sq in in the steel, which, with an allowance of 100% impact during lifting brings the limiting stress in the steel to 12,000 lbs/sq in.

STD. 14" OCTAGONAL REINFORCED CONCRETE PILE.

(FOR FRESH WATER.) P.W.D. 130 263.

DUFFILL, WATTS & KING  
CONSULTING ENGINEERS & SURVEYORS  
DUNEDIN and INVERCARGILL.