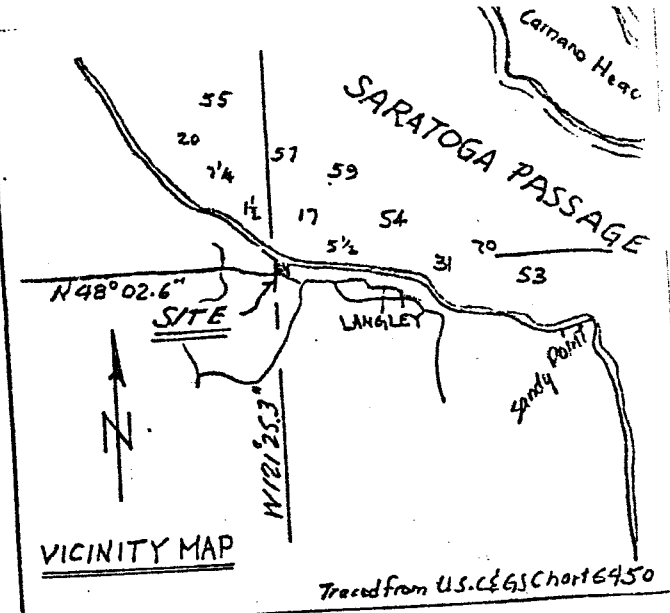
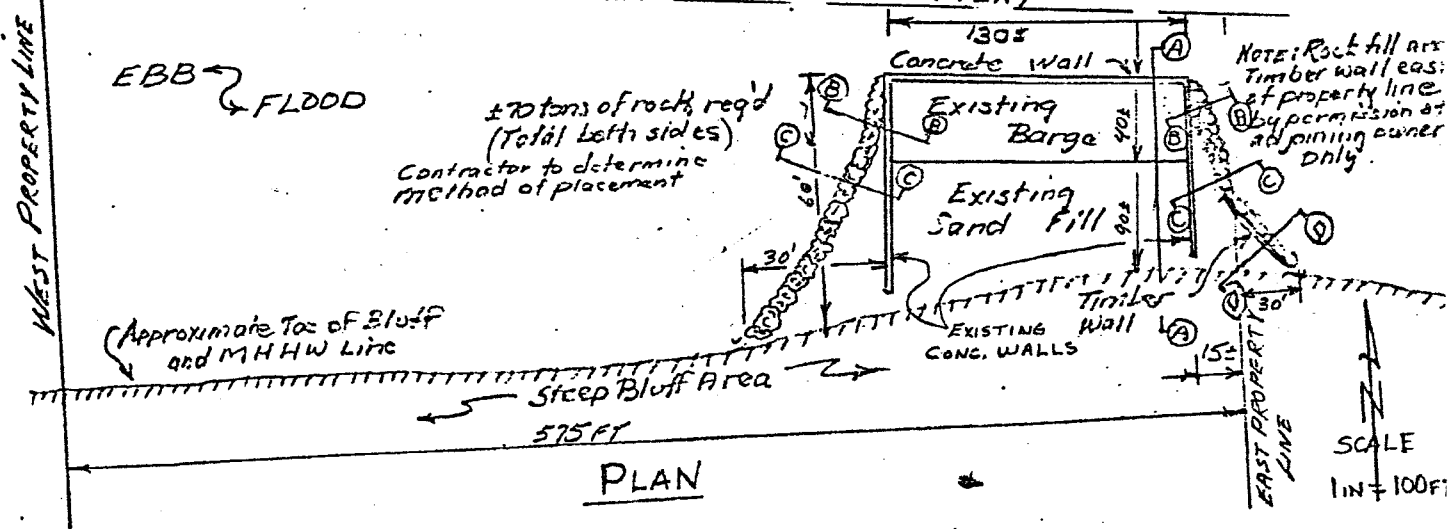




- APPROX. MEANDER AND PROPERTY LINE BY LAND PATENT



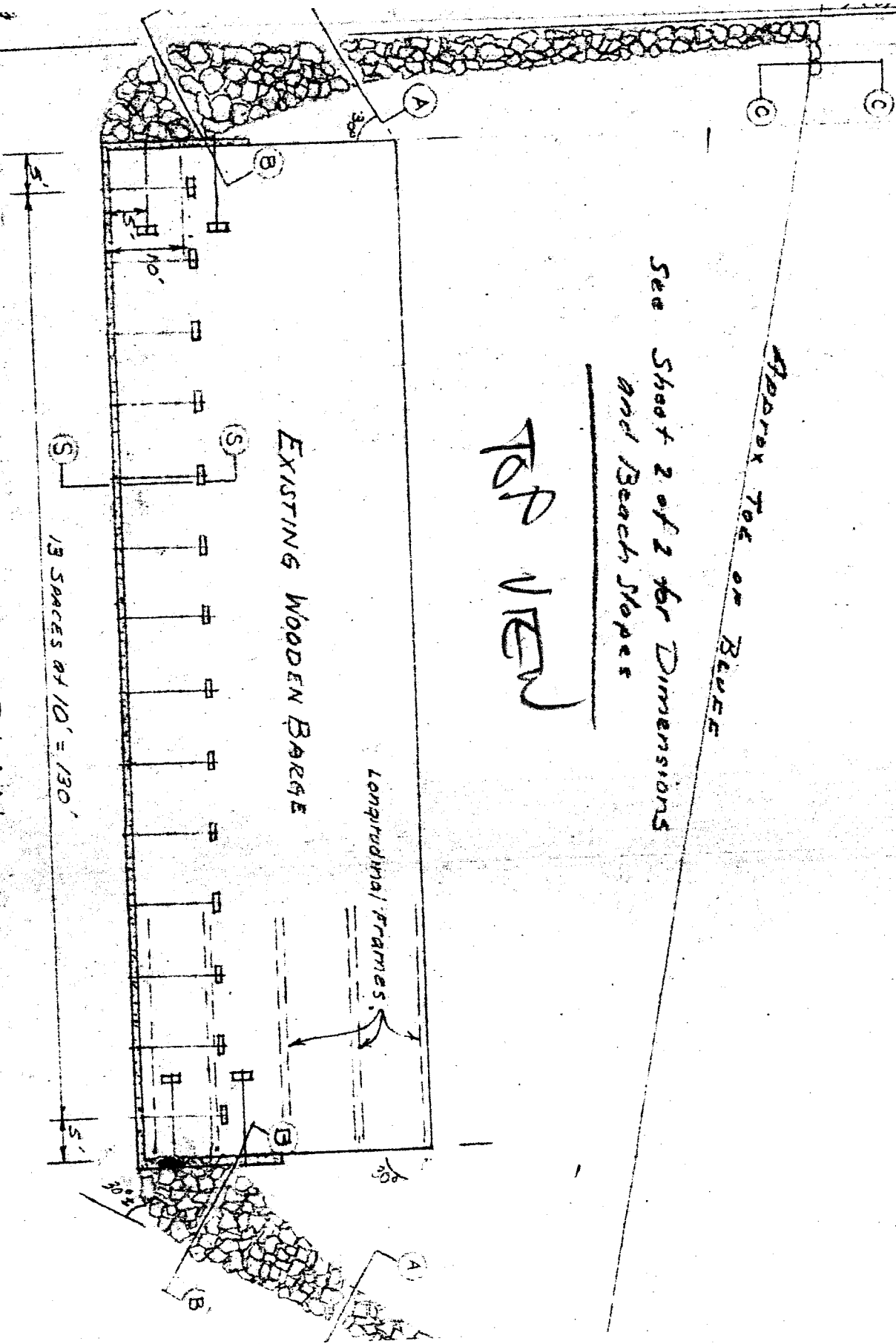
ADJACENT OWNERS
West: M.G. Darrow Nordahl 2610 Clemson Court Bakersfield Ca 93306
East: Keith Harroff, Lompoc Wg. 98260

071-0YB-1-001295
REV'D 9A-979 To meet STATE DOE RQMTS JHE
PROPOSED ROCK BULKHEAD
IN
SARATOGA PASSAGE
VICINITY OF LANGLEY WASHINGTON
APPLICATION BY
MAX. K. BITTS
1808 S 118TH ST
SEATTLE WASHINGTON 98168
TEL 248-2820
21 NOV 1976

Approx Top of Reef

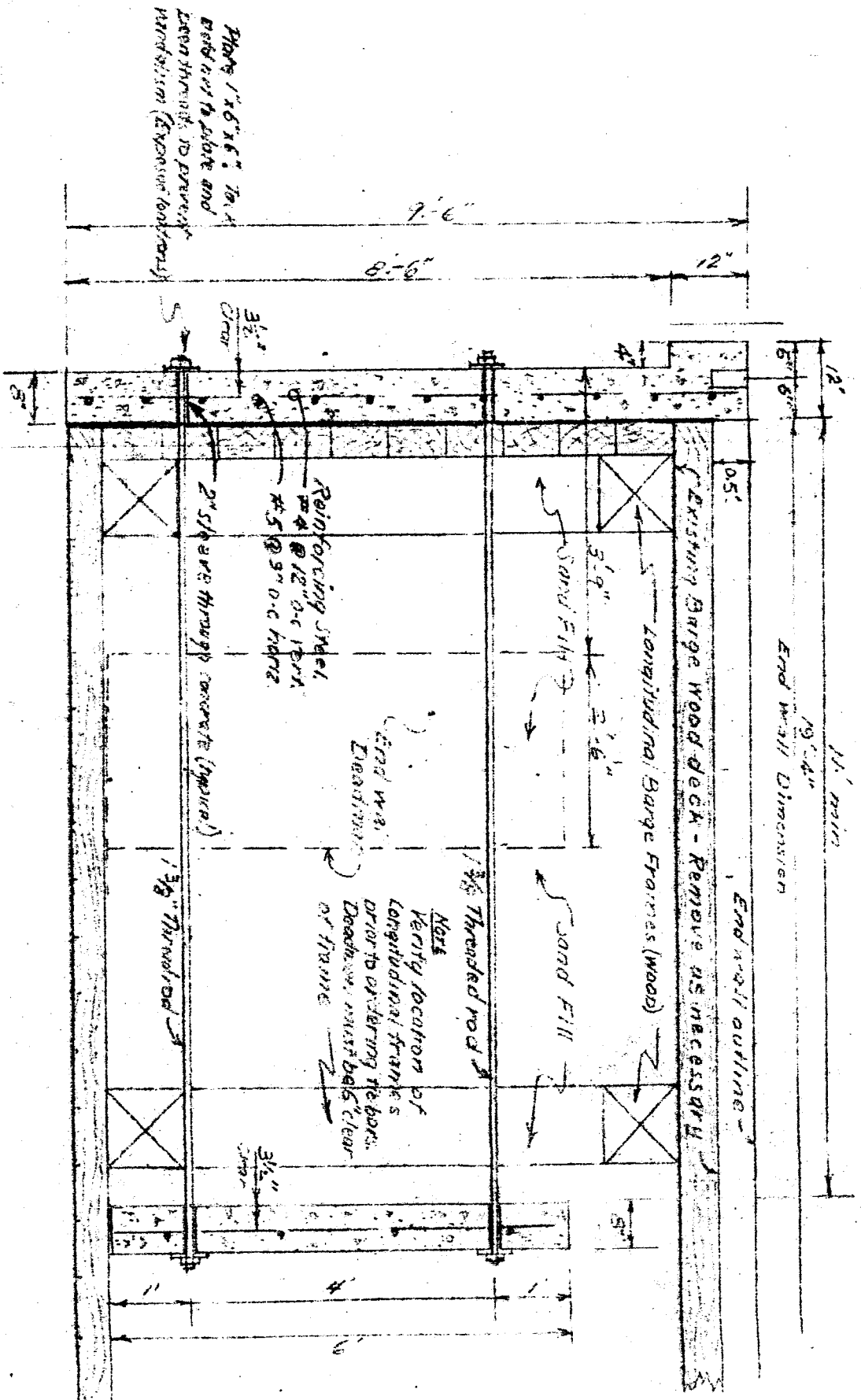
See Sheet 2 of 2 for Dimensions
and Beach Slopes

TOP VIEW



GENERAL PLAN

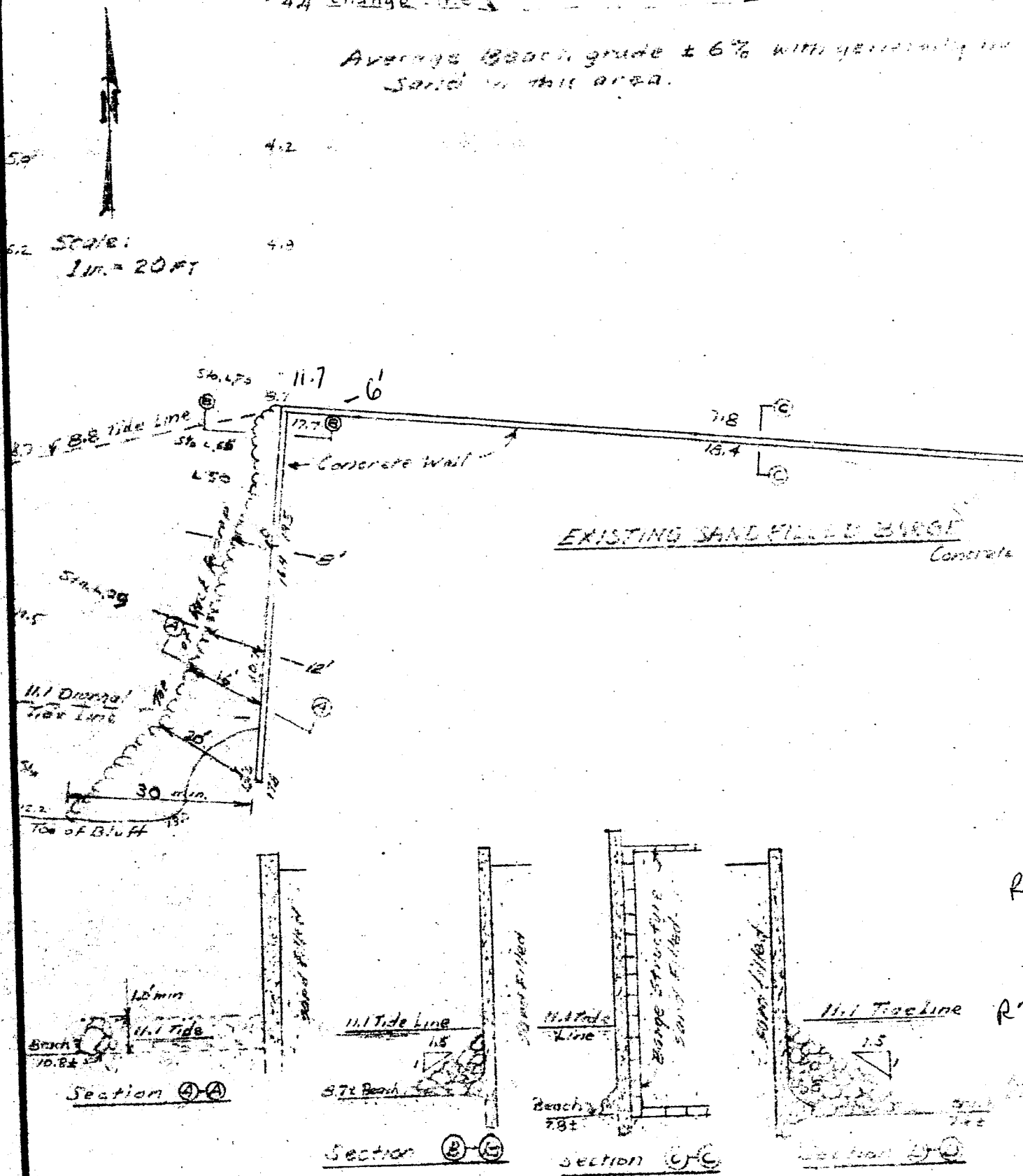
SCALE 1 IN = 20 FT.



SECTION S-S

Beach has flatter grade and generally wet surface of sand.
 Extends approximately 600 to 800 ft. D. 1950

Average Beach grade $\pm 6\%$ with generally low sand in this area.



R5

R70

SCALE 1 IN = 2 FT HOR & VERT

STRUCTURAL NOTES

1. Concrete: Minimum 28 day strength $f'_c = 3000 \text{ psi}$. Minimum of $5\frac{1}{2}$ sacks cement per cubic yard. Construction joints shall be vertical only and placed 2'-6" from the centerline of the backs. Reinforcing continuous through joints. Joint shall have $2' \times 4'$ key full height of wall. Slump 4" maximum.
2. Reinforcing Steel: ASTM Grade 60 $f_y 60 \text{ K.S.I.}$ All splices only at $\frac{1}{4}$ points between tiebacks. No more than $\frac{1}{2}$ of bars spliced at any location. Corner bars of size and spacing of the horiz. reinforcement shall be added at the return walls. Corner bars lapped 2'-0" each end. All bars securely tied.
3. Miscellaneous Metal: Threaded rods mild carbon steel $f_y (\text{min}) = 36 \text{ K.S.I.}$ Misc. plates ASTM A 36
4. Construction Sequence: (a) Walls and deadmen cast.
(b) Ties installed. (c) Deadmen backfilled and compacted.
(d) Remaining barge voids filled.
5. Paint: Rods, plates and nuts galvanized or treated with coal tar epoxy compound for corrosion protection.
6. Design Criteria: Sand fill $\phi = 30^\circ$, $\gamma = 110 \text{ p.c.f.}$, Surcharge 1 ft.
7. Structural design by: Joseph A. Hofbeck P.E.

Seattle Wash. 3 June 77.