HYDROLOGY

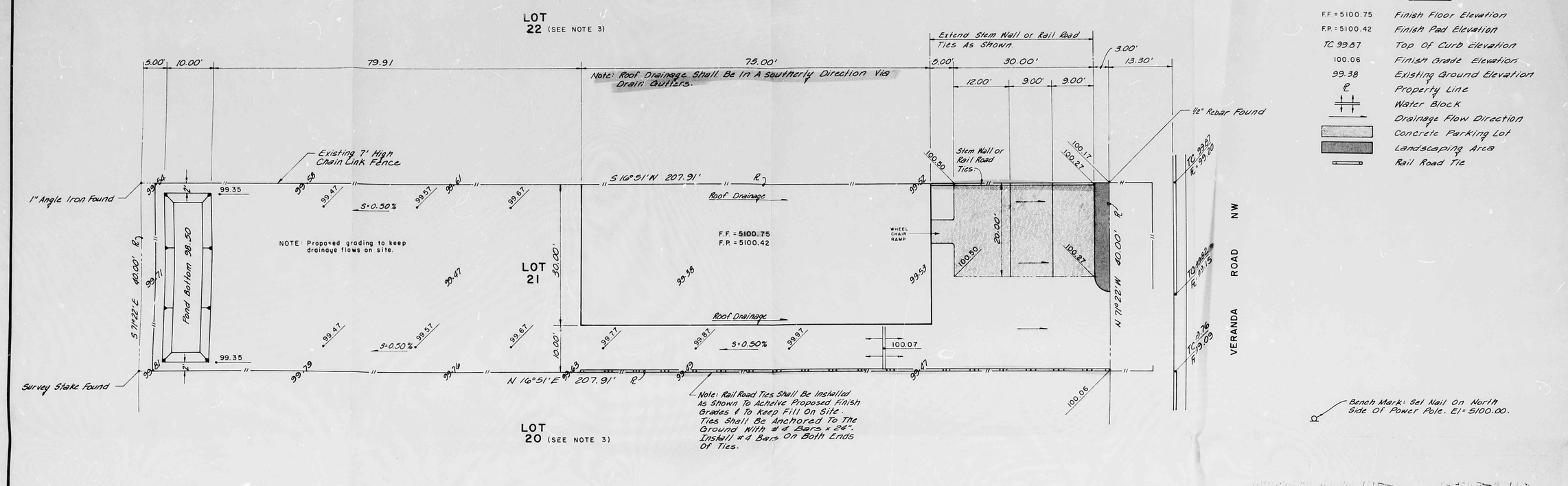
G15/D18

ONE PLAN

1 PLAN FOR

MORAN'S WAREHOUSE
BIDG.

G15—D18



LOT SIZE = 207.91' x 40.00' ÷ 43560 = 0.19 Ac.

Rainfall For A 100 Year - 6 Hour Storm = 2.2"

Intensity For 10 Minutes = 4.5

Impervious Area = (75.00' x 30') + (30.00 x 20.00) + (5.00' x 5.00') ÷ 43560 = 0.07 Ac or 39%

Pervious Area = 0.19 - 0.07 = 0.12 Ac or 63%

Pervious Area Contributing Drainage to Veranda Rd. = (48.00 x 10.00) + (38.00 x 10.00) + (20.00 x 3.00) ÷ 43560 = 0.02 Ac

Pervious Area Contributing Drainage to Ponding Area = 0.12 - 0.02 = 0.10 Ac

Impervious Area Contributing Drainage to Ponding Area = 0

Runoff To Veranda Road

Q = CiA

Impervious Area: .95 x 4.5 x .12 = 0.51 Cfs

Pervious Area : .35 x 4.5 x .02 = 0.03 Cfs

0.54 Cfs

Runoff To Ponding Area

Pervious Area: .35 x 4.5 x .10 = 0.16 Cfs

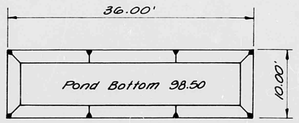
Impervious Area: 0 Cfs

0.16 Cfs

Notes:

1. Legal - Lot 21, Block "C" Monkbridge Addition
2. Lot 21 is not located within a flood hazard area
3. There is no undeveloped or developed drainage that is being contributed into lot 21 from the surrounding topography.

SECTION



POND DETAIL

Ponding Capacity
36.00' x 10.00' = 360 Sq.Ft.
32.60' x 6.60' = 215.16 Sq.Ft.
$\left(\frac{360 + 215}{2}\right) \times .85 = 244$ Cu.Ft.

VICINITY MAP G-15

RECEIVED FEB 21 1984 HYDROLOGY SECTION

APPROVED FOR DRAINAGE
2/21/84
DATE
Billy J. Lockey C.E./Hydro
SIGNATURE
ADVISE DRAINAGE INSPECTOR WHEN GRADING STARTS

G15/D18

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 4947 RICHARD L. BURTON

REVISIONS	SCALE:
1. Added more spot elevations both existing & Proposed	1" = 10'
	DATE: 2-1-84
2. Added R.R. Ties & stem wall.	PROJECT NO. 252
3. Added Note 3.	DRAWN: R.M.
	CHECKED: R.B.
	SHEET NO. 1 of 1

AL MORAN

MORAN'S WAREHOUSE
DRAINAGE & GRADING PLAN

BURTON ENGINEERS, INC.

Albuquerque Las Cruces