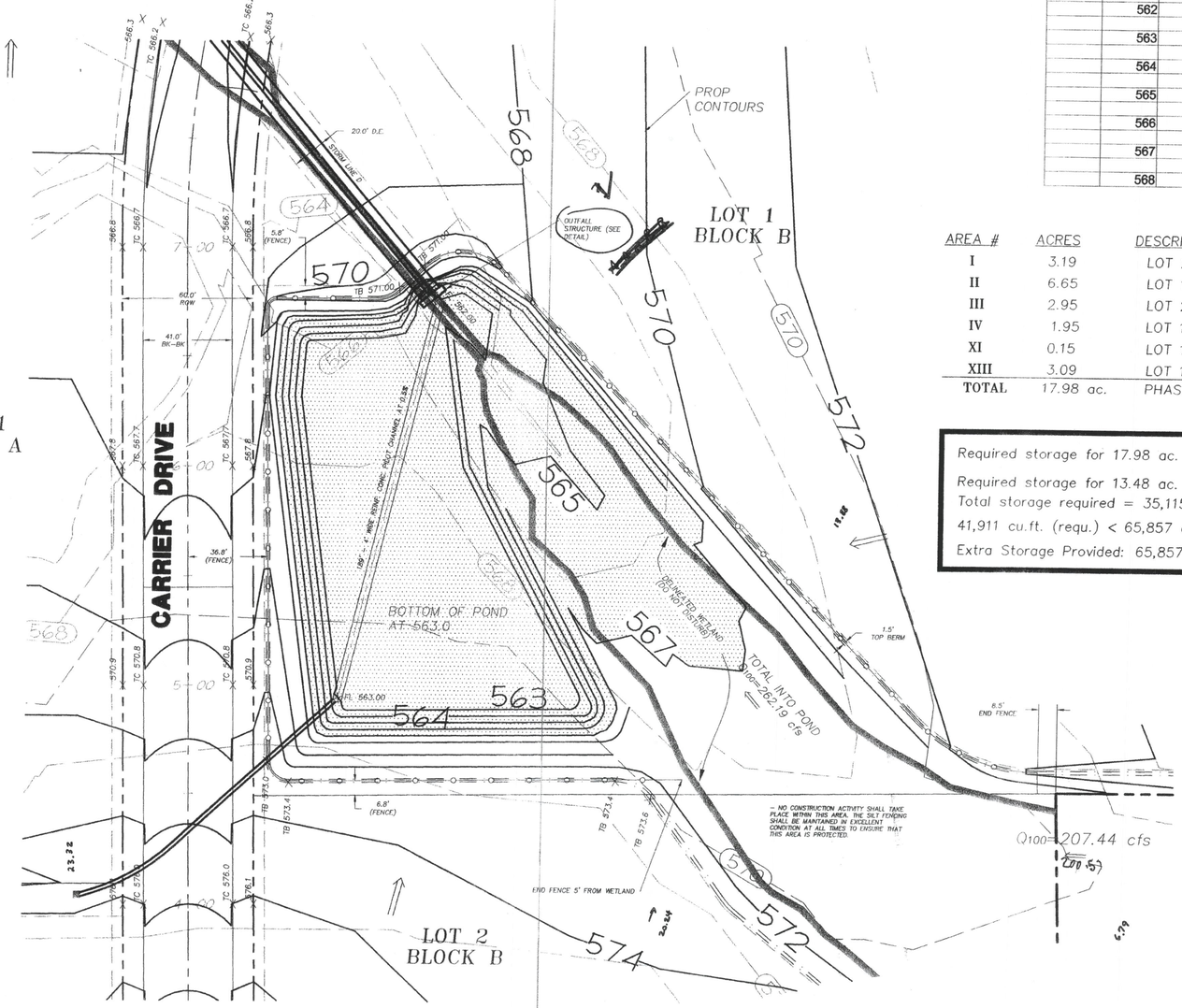


VOLUME CALUCATION ON DENTENTION POND			
ELEV	SF	CF	TOTAL CF.
562	0		
563	14871	7,435.50	
564	16881	15,876.00	23,311.50
565	20759	18,820.00	34,696.00
566	26682	23,720.50	42,540.50
567	32333	29,507.50	53,228.00
568	40367	36,350.00	65,857.50

565.92 = 100 YR STORAGE ELEV.

AREA #	ACRES	DESCRIPTION
I	3.19	LOT 2, BLOCK A
II	6.65	LOT 1, BLOCK A
III	2.95	LOT 2, BLOCK B
IV	1.95	LOT 1, BLOCK B (south portion)
XI	0.15	LOT 1, BLOCK A (portion)
XIII	3.09	LOT 1, BLOCK B (north portion)
TOTAL	17.98 ac.	PHASE I DEV. UPSTREAM TO POND

*AREA #	ACRES	DESCRIPTION
V	0.71	Street
VI	0.61	Street
VII	0.55	Street
VIII	1.05	Street
XI	0.15	part 1-A
XII	0.41	Street
TOTAL	3.48 ac.	PHASE I DEV. DOWNSTREAM TO POND

Required storage for 17.98 ac. = 35,115 cu.ft. upstream

Required storage for 13.48 ac. = 6,796 cu.ft. downstream

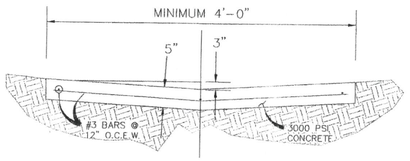
Total storage required = 35,115 + 6,796 = 41,911 cf requ.

41,911 cu.ft. (requ.) < 65,857 cu.ft. (provided)

Extra Storage Provided: 65,857 – 41,911 = 23,946 cfs

SEE COMPUTATIONS ON SHEET 6-B

THIS SET OF CONSTRUCTION PLANS IS INTENDED FOR INTERIM REVIEW ONLY UNDER THE AUTHORITY OF W.L. DOUPHRATE II, P.E. TEXAS NO. 60102 ON - - . IT IS NOT TO BE USED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.



4' PILOT CHANNEL

– MAX. DETENTION ELEVATION

WETLAND DELINEATION PERFORMED BY:
GEO-MARINE, INC.
550 E. 15th STREET
PLANO, TX 75074
(972) 423-5480

NOTE: ALL DISTRUBED AREAS SHALL BE SEEDED. THE CONTRACTOR IS REPSONSIBLE FOR ENSURING THAT A SIGNIFICANT GROWTH OF GRASS IS ESTABLISHED PRIOR TO ACCEPTANCE BY THE CITY.

BENCHMARK: NW CORNER OF CONCRETE HEADWALL, +/- 285' EAST OF THE SOUTHEAST LOT CORNER OF TRACT & ALONG N. ROW LINE OF HWY 276. ELEV 581.52.

T.B. – TOP BERM

NOTE: EXCESS DIRT AND UTILITY SPOILS SHALL BE STOCKPILED ON LOT 1, BLOCK A. EROSION CONTROL MEASURES (i.e. SILT FENCE, etc.) SHALL BE INSTALLED BY THE CONTRACTOR TO LIMIT EROSION OF THE STOCKPILE(S).

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY W.L. DOUPHRATE II TEXAS P.E. NO. 60102 ON

DOUPHRATE & ASSOCIATES, INC.
ENGINEERING • PROJECT MANAGEMENT • SURVEYING
2235 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
PHONE: (972)771-9004 FAX: (972)771-9005

DETENTION POND
ROCKWALL DISTRIBUTION COMPLEX - PH. I
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

REVISION	CHECKED
	W.L.D.
	A.L.
	08/01
	0033POND
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