



NOTE: THE EXISTING DITCH ALONG F.M. 156 DOES NOT FULLY DRAIN. WATER WILL STAND IN THE DITCH AFTER A RAINFALL EVENT.

CURRENTLY WATER STANDS ON THIS PROPERTY AND THE PROPERTY TO THE WEST AFTER RAINFALL EVENTS. THE PURPOSE OF THIS DRAINAGE PLAN IS TO ALLOW STORM WATER FROM THE WEST TO PASS THROUGH THIS SITE TOWARDS THE DITCH ALONG F.M. 156 BUT WATER WILL CONTINUE TO STAND AFTER RAINFALL EVENTS IN THE GRASS COVERED LOW AREAS OF THIS LOT AND THE LAND TO THE WEST.

NOTE: THE PREDOMINATE DIRECTION OF FLOW IN THIS EXISTING DITCH IS TO THE NORTH. DURING PERIODS WHEN THE DITCH FILLS UP SOME WATER WILL FLOW TO THE SOUTH THROUGH THE TWO EXISTING 12" PIPES UNDER THE ADJACENT DRIVEWAY. THE MAJORITY OF THE RUNOFF WILL TRAVEL NORTH THROUGH THE TWO 18" R.C.P.S

MATCH FLOW LINE AT THIS POINT F.L.=729.82

F.L. = 730.17

PROPOSED 18" R.C.P. WITH 6:1 SAFETY END SECTIONS @ 0.40%

F.L. = 730.47

REGRADE DITCH IN TXDOT R.O.W. HIGH POINT 730.68 GRADE DITCH AT 0.4% SLOPE

TURN DOWN CURB SEE DETAIL SHEET

PROPOSED 4' WIDE CONCRETE SIDEWALK ACTING LIKE A FLUME WITH NO CURBS AND NO DEPRESSED CENTERLINE SLOPE IS 0.50%

DESIGN POINT ID	RUNOFF COEF. "c"	AREA "A" ACRES	TOTAL FACTORED cA	TIME OF CONCENTRATION (min)	Intensity I-2yr (in/hr)	Discharge Q-2yr (cfs)	Intensity I-10yr (in/hr)	Discharge Q-10yr (cfs)	Intensity I-100yr (in/hr)	Discharge Q-100yr (cfs)	NOTES
1	0.80	0.769	0.615	10	4.71	2.897	6.50	4.000	9.24	5.683	SURFACE DRAINS OUT FLUME TO DITCH
OS1	0.36	21	7.56	59	1.69	12.78	2.53	19.13	3.81	28.80	SURFACE DRAINS TO DITCH

DRAINAGE AREA MAP						
SONIC DRIVE-IN						
MERRIFIELD ESTATES FIRST SECTION						
TOWN OF PONDER, TEXAS						
WALTER NELSON AND ASSOCIATES FIRM No. 0062 1812 CARLA AVENUE ARLINGTON, TEXAS 76014 (817) 642-9119						
DESIGN	DRAWN	SCALE	DATE	NOTES	FILE	NO.
W.J.N.	W.J.N.	1"=20'	4-2022	COLEMAN		