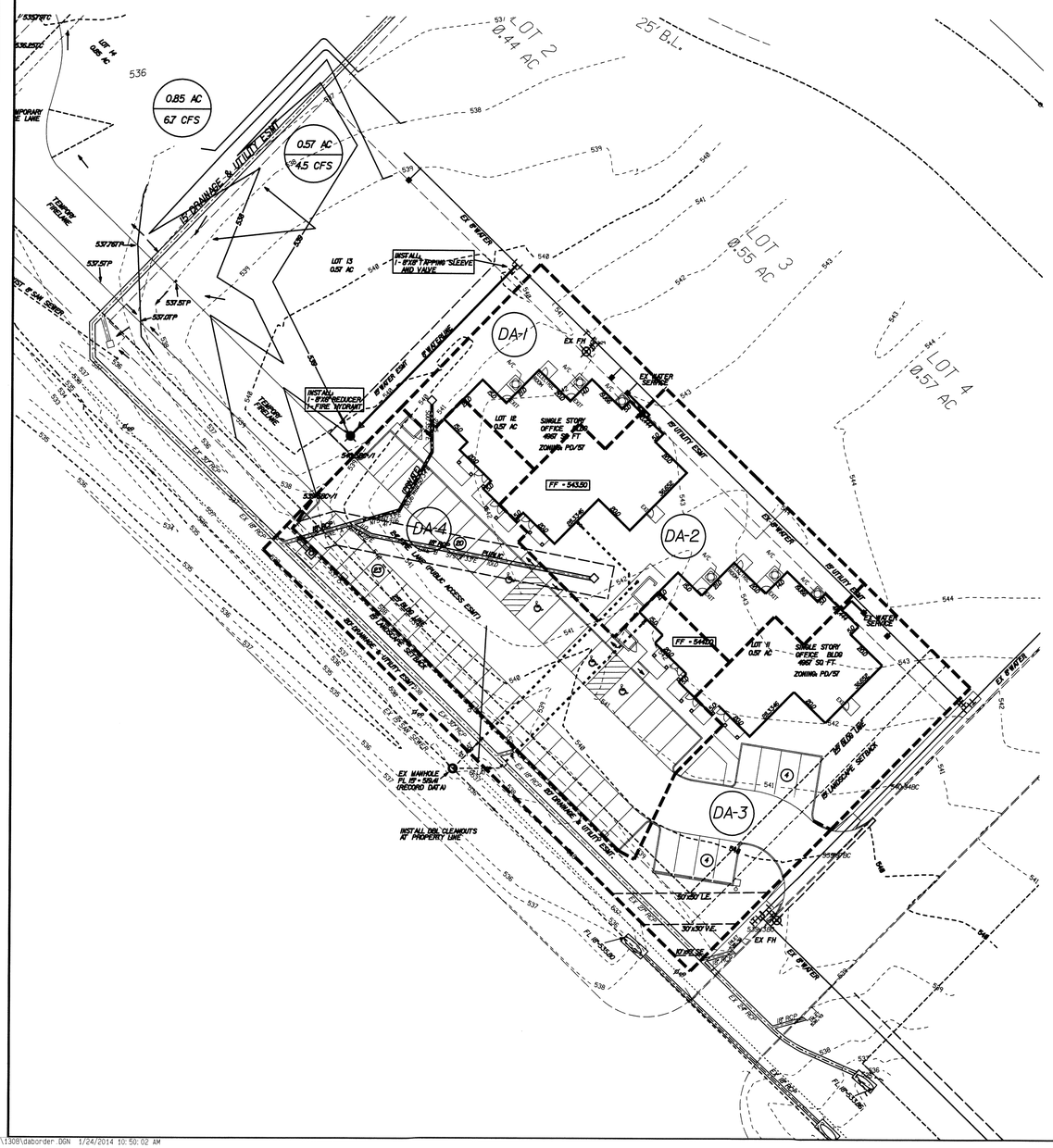
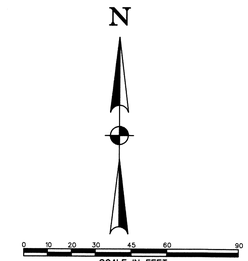
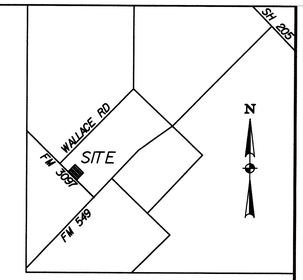
STORMWATER RUNOFF CALCULATIONS (100 YR STORM)

LOCATION	Tc (MINUTES)	I(100)	A (ACRES)	C	Q100	FLOWS TO
DA-1	10	9.8	0.12	0.90	1.1 CFS	DROP INLET
DA-2	10	9.8	0.24	0.90	2.1 CFS	DROP INLET
DA-3	10	9.8	0.37	0.90	3.2 CFS	SHEET FLOW DROP INLET
DA-4	10	9.8	0.39	0.90	3.4 CFS	SHEET FLOW DROP INLET





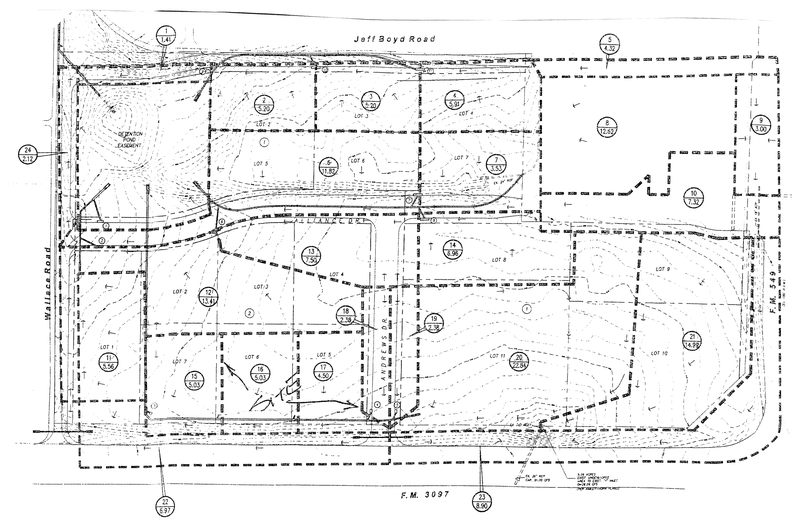
SCALE: 1" = 30'



VICINITY MAP
NOT TO SCALE

LINE LEGEND:

- PROPERTY LINE
- DRAINAGE FLOW
- PROPOSED WATER LINE
- ROAD CENTER LINE
- PROPOSED STORM SEWER
- PROPOSED STREET
- 610 EXISTING CONTOUR LINE
- 610 PROPOSED CONTOUR LINE
- BUILDING SETBACK LINE
- DRAINAGE EASEMENT
- DRAINAGE DIVIDE LINE
- ROW / LOT LINE
- PROPOSED FENCE



DRAINAGE CALCULATIONS						
AREA NO.	AREA (AC.)	TC (MIN.)	C	I 100 IN/HR	Q 100 C.F.S.	GRAING
1	0.16	10	0.90	9.80	1.41	6" Cmp.
2	0.59	10	0.90	9.80	5.20	18" Hdwl./Pvmg
3	0.59	10	0.90	9.80	5.20	18" Hdwl./Pvmg
4	0.61	10	0.90	9.80	5.91	18" Hdwl./Pvmg
5	0.48	10	0.90	9.80	4.12	18" Hdwl./Pvmg
6	1.34	10	0.90	9.80	11.82	18" Hdwl./Pvmg
7	0.40	10	0.90	9.80	3.53	18" Hdwl./Pvmg
8	0.70	10	0.90	9.80	12.62	2x18" Hdwl./Pvmg
9	0.34	10	0.90	9.80	3.00	Ex. "V"
10	0.63	10	0.90	9.80	7.72	18" Hdwl./Pvmg
11	0.82	10	0.90	9.80	5.56	18" Conc./Pvmg
12	1.52	10	0.90	9.80	13.41	18" Hdwl./Pvmg
13	0.86	10	0.90	9.80	7.59	18" Hdwl./Pvmg
14	0.79	10	0.90	9.80	6.96	18" Hdwl./Pvmg
15	0.57	10	0.90	9.80	5.03	"V" Hdwl./Pvmg
16	0.57	10	0.90	9.80	5.03	"V" Hdwl./Pvmg
17	0.51	10	0.90	9.80	4.50	"V" Hdwl./Pvmg
18	0.27	10	0.90	9.80	2.38	6" Hdwl./Pvmg
19	0.27	10	0.90	9.80	2.38	6" Hdwl./Pvmg
20	2.28	10	0.90	9.80	22.34	"V" Hdwl./Pvmg
21	1.70	10	0.90	9.80	16.65	Ex. "V"
22	0.79	10	0.90	9.80	6.97	Prop 18" Conc.
23	1.01	10	0.90	9.80	8.90	Ex. "V"
24	0.24	10	0.90	9.80	2.11	Ex. "V"

LEGEND

- EX. CONTOUR
- DRAINAGE DIVIDE
- AREA NO.
- RUNOFF - Q_{100}
- INLET NO.
- FLOW DIRECTION

ASBUILT DRAINAGE AREA MAP (RECORD DATA)

STATE OF TEXAS
STEPHEN A. HELMBERGER
62944
REGISTERED PROFESSIONAL ENGINEER
1/23/14

AS-BUILT DRAWING 01-23-14

To the best of our knowledge, Helmberger Associates, Inc., states that this plan is representative of asbuilt conditions. This information is based a visual observations and limited surveying of post construction conditions at the site and information provided by the Owner and Contractor. Field inspection and construction supervision was performed by others.

OWNER:
RANDALL NOE ENTERPRISES INC.
P.O. BOX 369
ROCKWALL, TEXAS 75087
MR. ROB WHITTLE
(972) 771-5253

ENGINEER:
HELMBERGER ASSOCIATES, INC.
1525 BOZMAN ROAD
WYLIE, TEXAS 75098
MR. STEPHEN A. HELMBERGER, P.E.
(972) 442-7459

DRAINAGE AREA MAP

LOTS 11 & 12 BLOCK 2 - ALLIANCE ADDITION PH 2

RANDALL NOE ENTERPRISES INC.

CITY OF ROCKWALL, TEXAS

TBPE REGISTRATION NO. 000756

HELMBERGER ASSOCIATES, INC.
CIVIL AND ENVIRONMENTAL ENGINEERS
1525 BOZMAN ROAD, WYLIE TEXAS 75098 (972) 442-7459

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HELM.	CADD	JAN 2014	1"=30'	DABORDER	1308	C4

C:\1308\daborder.DGN 1/24/2014 10:50:02 AM