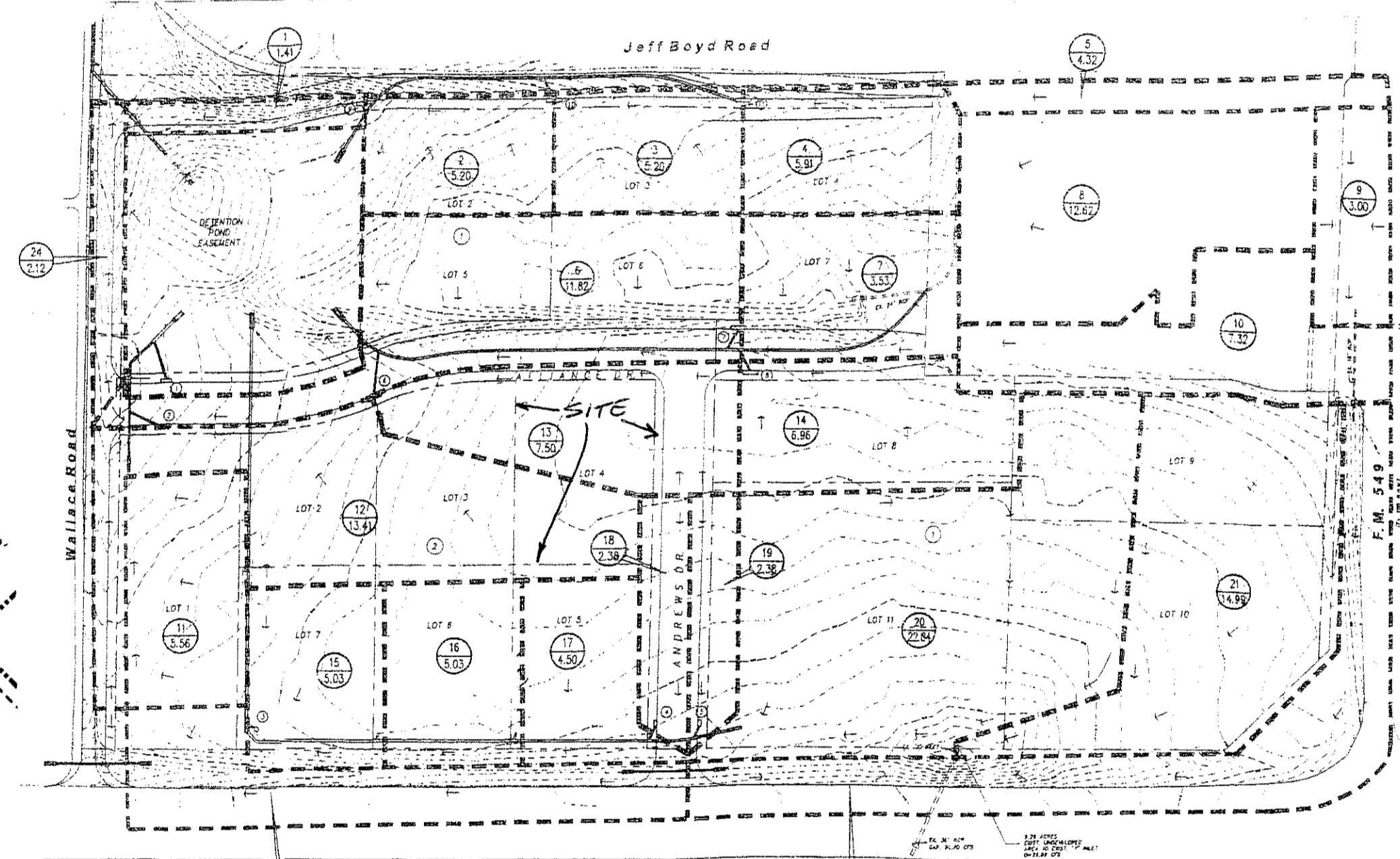
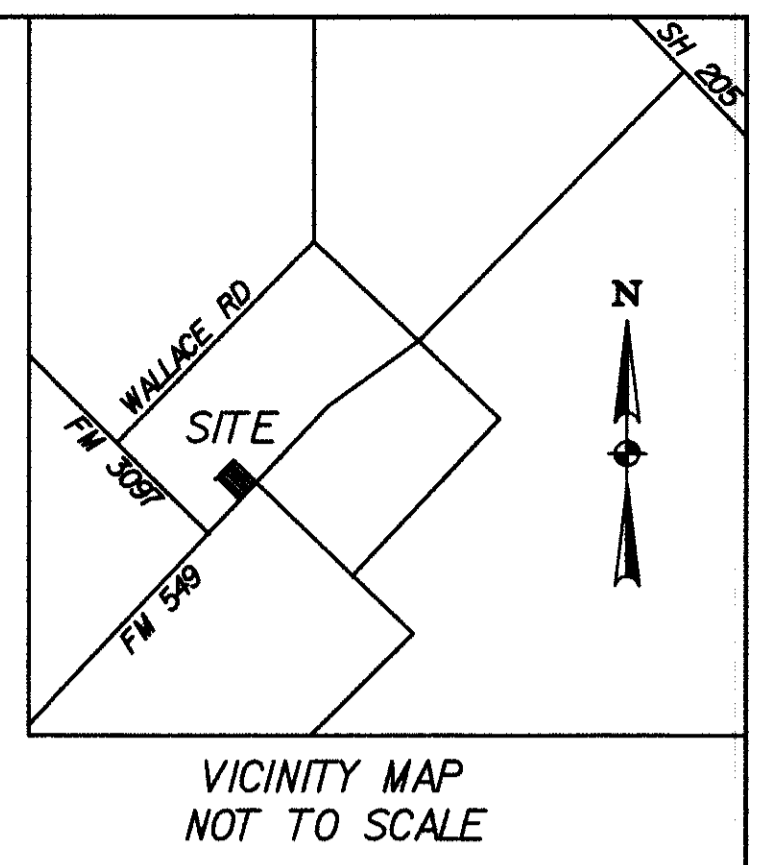
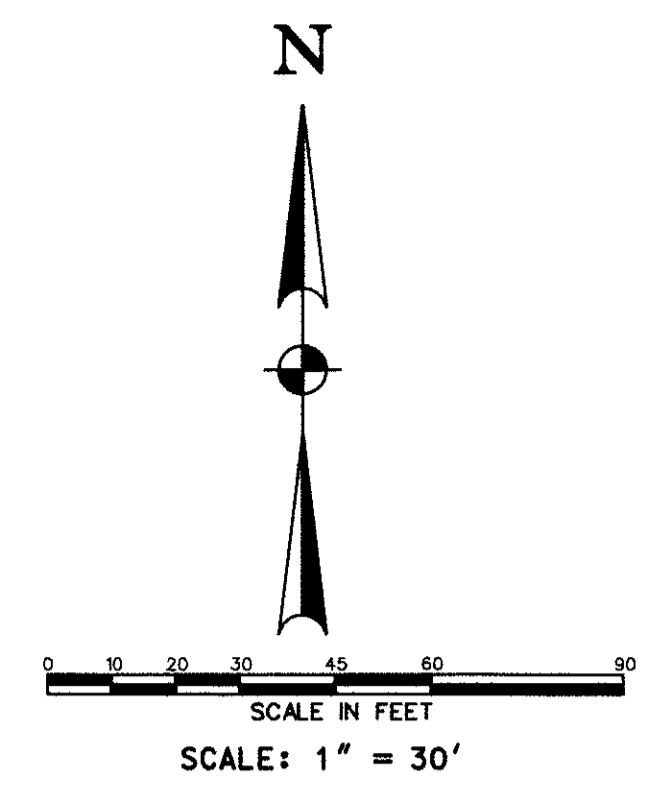


LINE LEGEND:

- 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



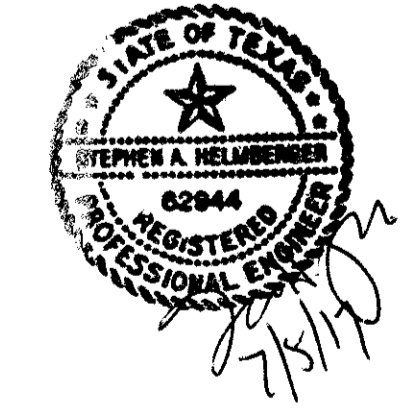
DRAINAGE CALCULATIONS

AREA NO.	AREA (AC)	Tc (MIN)	C	Q100	Q100 (CFS)	DRAIN
1	0.18	10	0.90	2.6	2.6	ALLIANCE DR
2	0.09	10	0.90	1.7	1.7	SHEET FLOW
3	0.09	10	0.90	1.7	1.7	ANDREWS DR
4	0.09	10	0.90	1.7	1.7	ANDREWS DR
5	0.09	10	0.90	1.7	1.7	ANDREWS DR
6	0.09	10	0.90	1.7	1.7	ANDREWS DR
7	0.09	10	0.90	1.7	1.7	ANDREWS DR
8	0.09	10	0.90	1.7	1.7	ANDREWS DR
9	0.09	10	0.90	1.7	1.7	ANDREWS DR
10	0.09	10	0.90	1.7	1.7	ANDREWS DR

AS-BUILT DRAINAGE AREA MAP (RECORD DATA)

AS-BUILT DRAWING 07-05-17

THIS DOCUMENT IS SUBMITTED AS AN "AS-BUILT DRAWING" FOR RECORD PURPOSES ONLY. TO THE BEST OF OUR KNOWLEDGE HELMBERGER ASSOCIATES, INC. STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION IS BASED ON LIMITED AS-BUILT SURVEYING AT THE SITE PROVIDED BY OTHERS AND INFORMATION PROVIDED BY THE OWNER/CONTRACTOR. CONSTRUCTION SUPERVISION WAS PERFORMED BY OTHERS. TBPE FIRM NO. 000756



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

STORMWATER RUNOFF CALCULATIONS (100 YR STORM)

LOCATION	Tc (MINUTES)	I (100)	A (ACRES)	C	Q100	FLOW TO
DA-1	10	9.8	0.29	0.90	2.6 CFS	ALLIANCE DR
DA-2	10	9.8	0.09	0.90	1.7 CFS	SHEET FLOW
DA-3	10	9.8	0.09	0.90	0.8 CFS	ANDREWS DR

DRAINAGE AREA MAP

LOT 13 BLOCK 2 - ALLIANCE ADDITION PH 2

RANDALL NOE ENTERPRISES INC.

CITY OF ROCKWALL, TEXAS

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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HELM.	CADD	JUNE 2015	1"=30'	DABB	1507	C4