



ERIC L. DAVIS ENGINEERING, INC.
 425 Pinson Road Suite "G"
 Forney, Texas 75126
 972/564-0592 Fax 972/564-6523
 E-Mail eric.davis@eldengineering.com

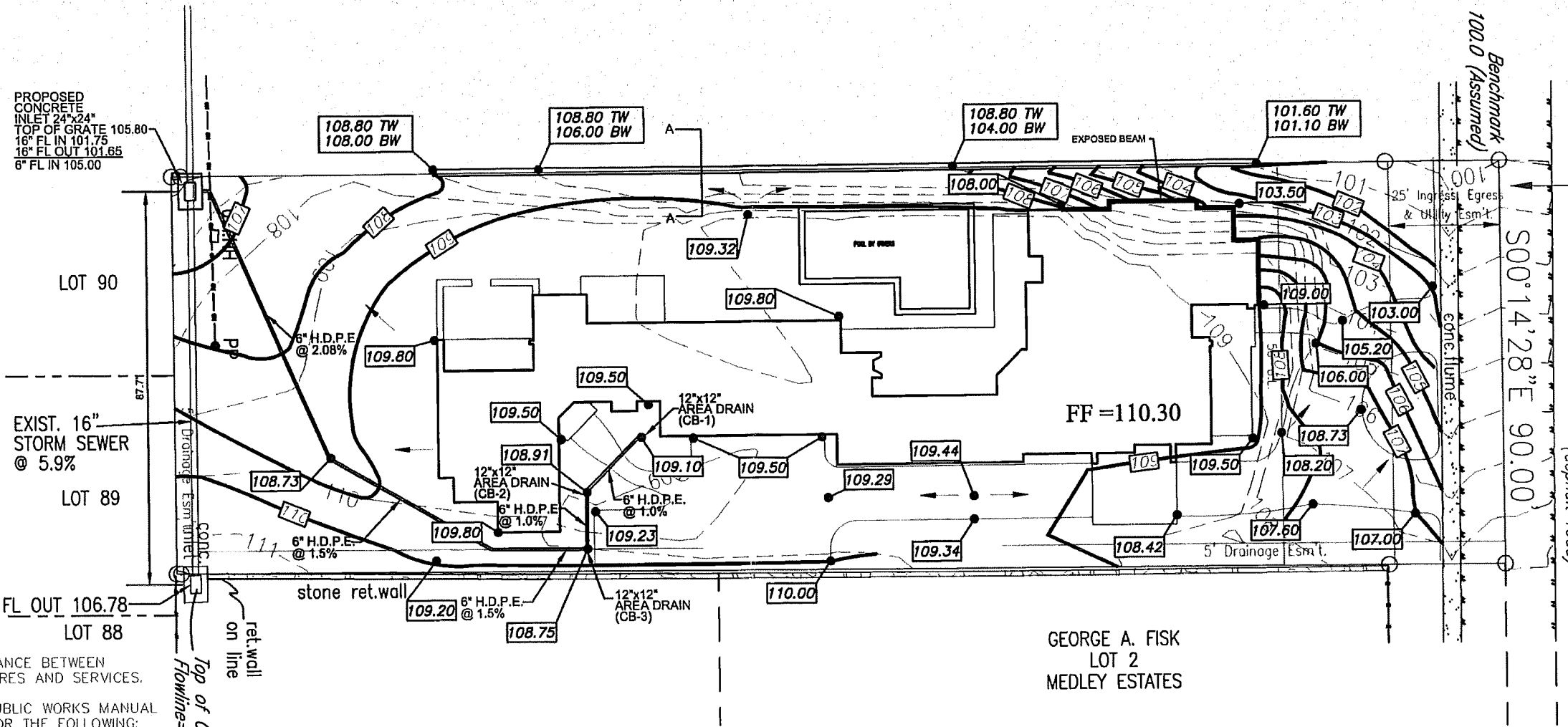
GRADING PLAN
 ENGINEERED FOR

REGISTRY HOMES

PLAN: GRADING	ELD JOB NO.:	DRAWN BY: BW	FIRM REGISTRATION #: 3987
BUILDER: REGISTRY HOMES	ADDRESS: 14905 LAKE FOREST DRIVE	LOT: 1	BLOCK: A
CITY: ADDISON, TEXAS			

SCALE: 1" = 30'

SHEET F01



BENCH MARK 100.0 Assumed

UTILITY NOTES:

- 1) MAINTAIN 10'-0" HORIZONTAL CLEARANCE BETWEEN WATER & SANITARY SEWER STRUCTURES AND SERVICES.
- 2) REFER TO THE TOWN OF ADDISON PUBLIC WORKS MANUAL FOR SPECIFICATIONS AND DETAILS FOR THE FOLLOWING:
 - A) WATER, FIRE AND IRRIGATION TAP AND METERS
 - B) SANITARY SEWER TAP AND SERVICE.
 - C) PAVEMENT CUT, REMOVAL AND REPLACEMENT
 - D) DRIVE WAY CONNECTION AND CURB RETURN DETAILS
 - E) STORM SEWER CONNECTION DETAILS

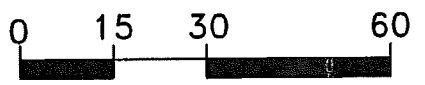
3) ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR UNDERSIZED FIRE SERVICES. INTERNAL DIMENSIONS HAVE BEEN TAKEN FROM PLANS BY OTHERS. FIRE SERVICE I.D. & METER I.D. ULTIMATELY DETERMINED BY FINAL FIRE SYSTEM DESIGN. ENGINEER OF RECORD HAS NOT PERFORMED AN ANALYSIS FOR THE SIZING OF DOMESTIC, FIRE & IRRIGATION TAPS, METERS & SERVICE LINES. ALL INTERNAL DIMENSIONS AS SPECIFIED BY OWNER AND OTHER CONTRACTORS.

SITE NOTES:

- 1) PRIVATE STORM DRAIN PIPE TO BE CONSTRUCTED OF H.D.P.E. ADS-N12 OR EQUAL
- 2) ALL GRATE INLETS TO 12"x12" SQUARE LOW PROFILE WITH 3/8" OR GRATER GRATE OPENINGS WITH A MINIMUM SURFACE AREA OPENING OF 0.30 FT² OR 43 IN²
- 3) 24"x24" GRATE INLET TO BE SQUARE LOW PROFILE WITH A MINIMUM OF 3/8" GRATE OPENING WITH A MINIMUM SURFACE AREA OPINING OF 1.2FT² OR 172 IN²
- 4) ALL ROOF DOWN SPOUTS SHALL CONNECT DIRECTLY TO PRIVATE STORM SEWER SYSTEM

12" GRATE INLET
 $Q = (CO)A (2gd)^3$
 Where:
 Q = INLET CAPACITY
 $C_o =$ ORFICE CAPACITY = 0.69
 A = CLEAR OPENING AREA OF GRATE (Ft²)
 $g = 32.2$ Ft/S
 $d =$ DEPTH OF WATER ABOVE TOP OF GRATE (Ft)
 $Q_{3in} = .67 (3)(2 \times 32.2 \times .25)^3 = .81$ cfs
 $Q_{6in} = .67 (3)(2 \times 32.2 \times .5)^3 = 1.14$ cfs

24" GRATE INLET
 $Q = (CO)A (2gd)^3$
 Where:
 Q = INLET CAPACITY
 $C_o =$ ORFICE CAPACITY = 0.69
 A = CLEAR OPENING AREA OF GRATE (Ft²)
 $g = 32.2$ Ft/S
 $d =$ DEPTH OF WATER ABOVE TOP OF GRATE (Ft)
 $Q_{3in} = .67 (1.2)(2 \times 32.2 \times .25)^3 = 3.21$ cfs
 $Q_{6in} = .67 (1.2)(2 \times 32.2 \times .5)^3 = 4.6$ cfs

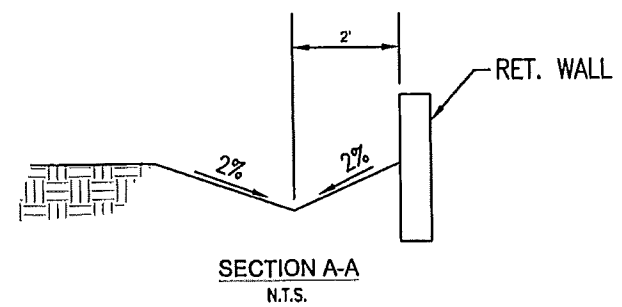


LEGEND

	SWALE LINE
	EXISTING CONTOURS
	PROPOSED GRADE ELEVATIONS
	PROPOSED FLOW DIRECTION
	PROPOSED CONTOURS

CATCH BASIN FLOWLINES

CB	FL IN	FL OUT
CB1		107.75
CB2	107.68	107.50
CB3	107.40	107.35
24"x24"	105.00	



STATE OF TEXAS
 ERIC L. DAVIS
 86895
 LICENSED PROFESSIONAL ENGINEER
 7-26-12

Lake Forest Drive

14905

GEORGE A. FISK
 LOT 2
 MEDLEY ESTATES