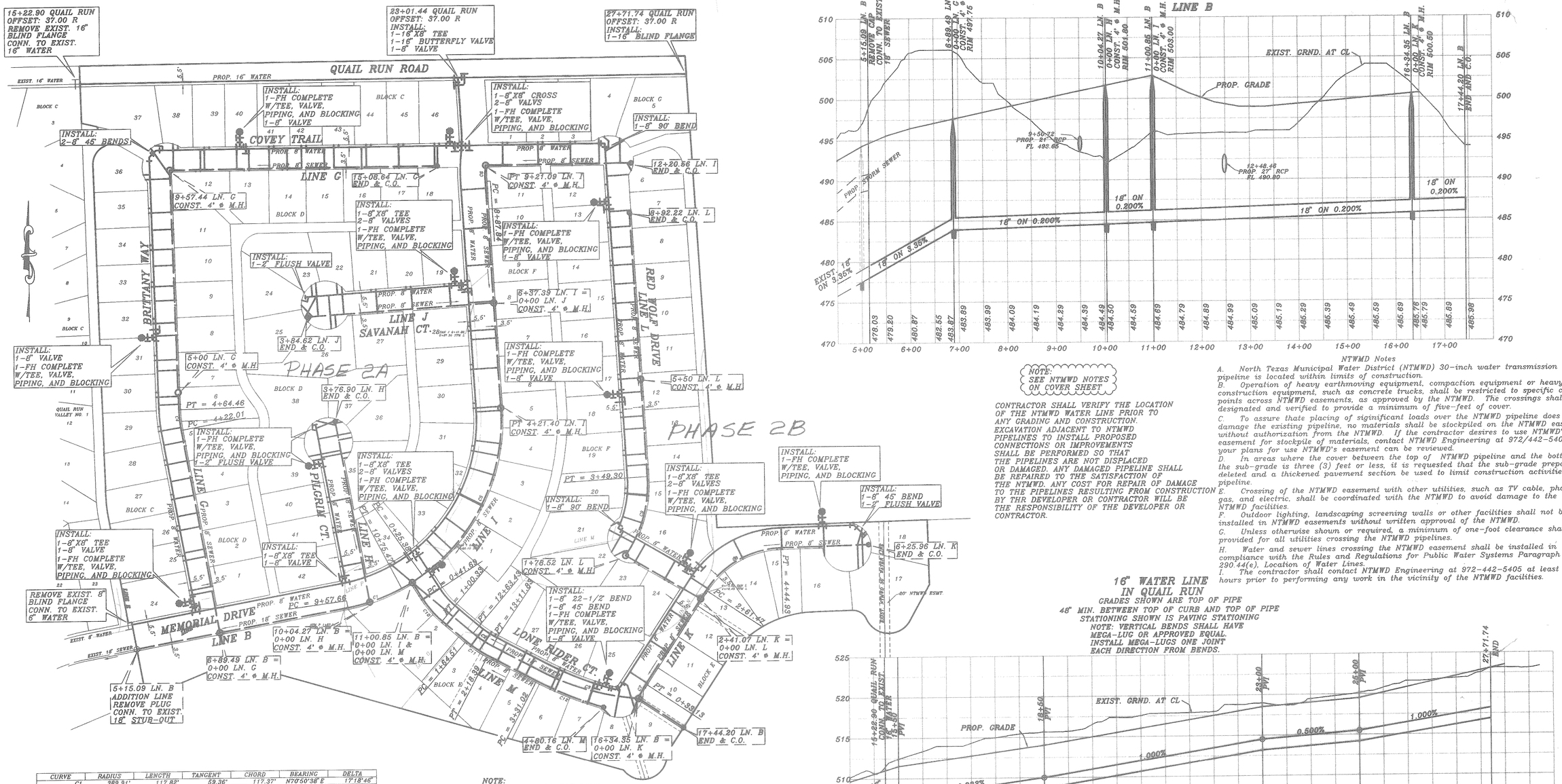


NOTE: SEE NTMWD NOTES ON COVER SHEET

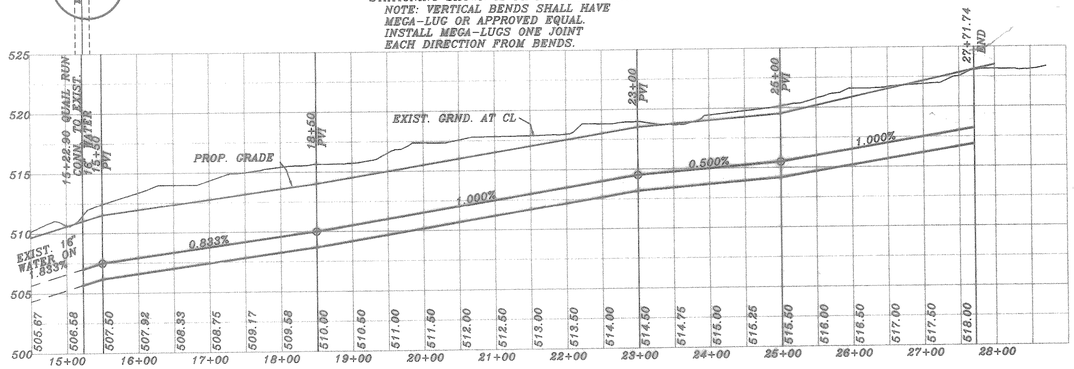
CONTRACTOR SHALL VERIFY THE LOCATION OF THE NTMWD WATER LINE PRIOR TO ANY GRADING AND CONSTRUCTION. EXCAVATION ADJACENT TO NTMWD PIPELINES TO INSTALL PROPOSED CONNECTIONS OR IMPROVEMENTS SHALL BE PERFORMED SO THAT THE PIPELINES ARE NOT DISPLACED OR DAMAGED. ANY DAMAGED PIPELINE SHALL BE REPAIRED TO THE SATISFACTION OF THE NTMWD. ANY COST FOR REPAIR OF DAMAGE TO THE PIPELINES RESULTING FROM CONSTRUCTION BY THR DEVELOPER OR CONTRACTOR WILL BE THE RESPONSIBILITY OF THE DEVELOPER OR CONTRACTOR.

NTMWD Notes

A. North Texas Municipal Water District (NTMWD) 30-inch water transmission pipeline is located within limits of construction.
B. Operation of heavy earthmoving equipment, compaction equipment or heavy construction equipment, such as concrete trucks, shall be restricted to specific crossing points across NTMWD easements, as approved by the NTMWD. The crossings shall be designated and verified to provide a minimum of five-feet of cover.
C. To assure thate placing of significant loads over the NTMWD pipeline does not damage the existing pipeline, no materials shall be stockpiled on the NTMWD easement without authorization from the NTMWD. If the contractor desires to use NTMWD's easement for stockpile of materials, contact NTMWD Engineering at 972/442-5405 so your plans for use NTMWD's easement can be reviewed.
D. In areas where the cover between the top of NTMWD pipeline and the bottom of the sub-grade is three (3) feet or less, it is requested that the sub-grade preparation be deleted and a thickened pavement section be used to limit construction activities over the pipeline.
E. Crossing of the NTMWD easement with other utilities, such as TV cable, phone, gas, and electric, shall be coordinated with the NTMWD to avoid damage to the NTMWD facilities.
F. Outdoor lighting, landscaping screening walls or other facilities shall not be installed in NTMWD easements without written approval of the NTMWD.
G. Unless otherwise shown or required, a minimum of one-foot clearance shall be provided for all utilities crossing the NTMWD pipelines.
H. Water and sewer lines crossing the NTMWD easement shall be installed in compliance with the Rules and Regulations for Public Water Systems Paragraph 290.44(e). Location of Water Lines.
I. The contractor shall contact NTMWD Engineering at 972-442-5405 at least 48 hours prior to performing any work in the vicinity of the NTMWD facilities.

16" WATER LINE IN QUAIL RUN

GRADES SHOWN ARE TOP OF PIPE
48" MIN. BETWEEN TOP OF CURB AND TOP OF PIPE
STATIONING SHOWN IS PAVING STATIONING
NOTE: VERTICAL BENDS SHALL HAVE MEGA-LUG OR APPROVED EQUAL
INSTALL MEGA-LUGS ONE JOINT EACH DIRECTION FROM BENDS.



PHASE 2A

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	389.91'	117.82'	59.36'	117.37'	N76°50'38"E	17°18'46"
C2	225.00'	48.40'	24.29'	48.31'	S56°02'36"E	12°19'30"
C3	514.03'	209.86'	106.43'	208.43'	S73°54'13"E	23°23'41"
C4	278.50'	42.44'	21.26'	42.40'	S06°08'01"E	08°43'55"
C5	389.91'	396.02'	216.99'	379.22'	N25°38'33"E	58°11'37"
C6	213.64'	33.25'	16.66'	33.22'	S01°00'17"W	08°55'06"
C7	150.00'	33.13'	16.63'	33.07'	S27°01'59"W	12°39'20"
C8	190.64'	183.46'	99.54'	176.47'	S60°55'48"W	55°08'13"
C9	252.89'	170.78'	88.79'	167.55'	N15°53'30"E	38°41'32"
C10	196.50'	58.64'	29.54'	58.43'	S41°08'06"E	17°05'58"
C11	246.50'	53.87'	27.04'	53.76'	S55°56'44"E	12°31'18"
C12	739.16'	149.15'	74.83'	148.89'	S67°59'13"E	11°33'40"

BENCH MARK
SQUARE CUT IN CONCRETE AT BASE OF CONCRETE WALL AT S.W. CORNER OF SOUTH APPROACH TO BRIDGE OVER SQUABBLE CREEK ON HWY. 205
ELEV.: 472.41

BENCH MARK
60D NAIL IN 36" PECAN TREE (TREE NO. 2302)
PAV. STA. 8+30, 71' RT., MEMORIAL DRIVE
ELEV.: 466.79

BENCH MARK
60D NAIL IN 34" PECAN TREE (TREE NO. 2314)
PAV. STA. 1+83, 138' RT., AUDOBON LANE
ELEV.: 480.88

BENCH MARK
60D NAIL IN 18" PECAN TREE (TREE NO. 2114)
PAV. STA. 10+97 63.5' RT., AUDOBON LANE
ELEV.: 501.54

AS BUILT

Winkelmann & Associates, Inc. hereby states that this plan, to the best of our knowledge is "As Built". Modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction as an field inspection was performed.

WINKELMANN & ASSOCIATES, INC. DATE 9-27-02 Ph 2A

STATE OF TEXAS HAROLD L. EVANS 23155 REGISTERED PROFESSIONAL ENGINEER 12/01

REVISION DESCRIPTION	DATE
REV.	11/25/01
REV. PER 4th REVIEW	7/13/01
REV. PER 3rd REVIEW	6/14/01
REV. PER 2nd REVIEW	5/10/01

0020\PHASE\0020V01

DATE	SCALE	DESIGN	DRAWN
	1" = 100' 1" = 6'	H.L.E.	

HAROLD L. EVANS
CONSULTING ENGINEER
P.O. BOX 28355
2331 GUS THOMASSON ROAD, SUITE 102
DALLAS, TEXAS 75228. (214) 328-8133

PROPOSED UTILITIES
QUAIL RUN VALLEY NO. 2
CITY OF ROCKWALL

SHEET NO. 20 / 21

JOB NO. 0020