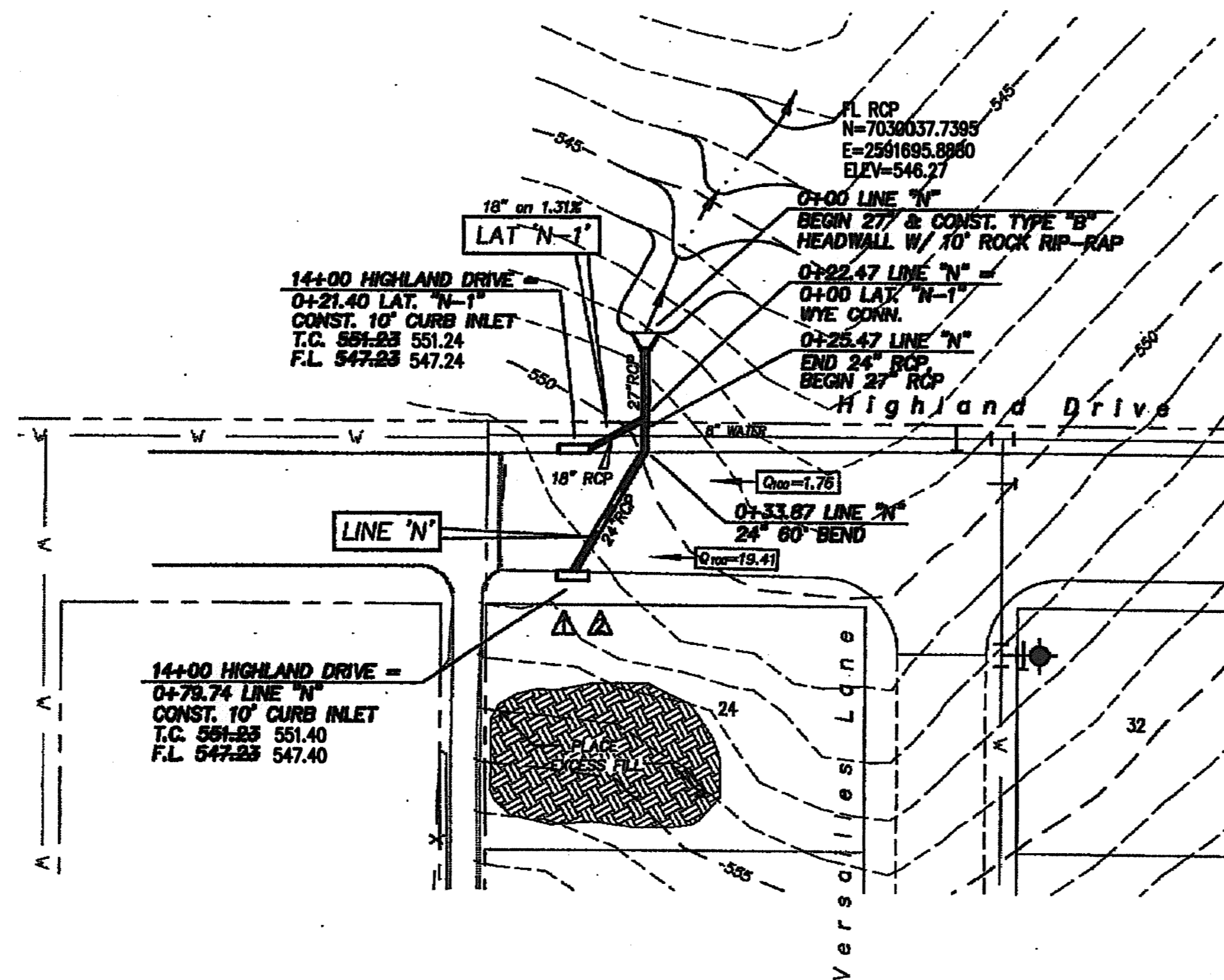
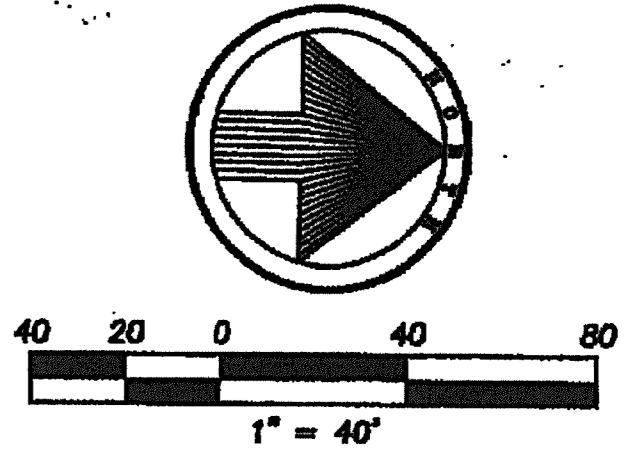
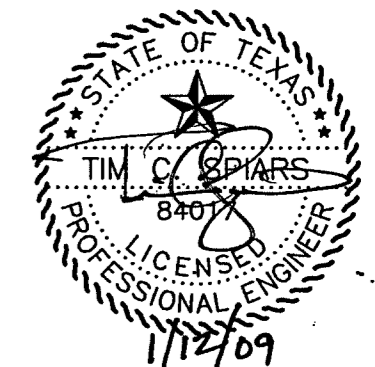


DRAINAGE GENERAL NOTES

1. Unless otherwise noted all materials and construction shall conform to the applicable specifications and standards of the City of Rockwall and The North Central Texas Council of Governments - "Standard Specifications for Public Works Construction, 3rd. edition.
2. All reinforcement shall be grade 60.
3. Jetting of embedment and backfill will not be allowed as a method of compaction.
4. Minimum compaction adjacent to and above storm sewers and drainage structures will be 95% with moisture 1% to 3% wet of optimum in all rights-of-way. Compaction in other areas will be 95%.
5. Lifts will not exceed 6" and results will be obtained by Rammer, hand-tamping or as approved in writing by the City.
6. Contractor will be responsible for field verifying the location of all existing utilities prior to his operations.
7. All bends and connections other than those at junction boxes shall be prefabricated by the factory.
8. All storm sewer pipes shall be ASTM C-76 RCP with tongue and groove connections (Class III or greater).



CURVE DATA					
CURVE	RADIUS	DELTA	LENGTH	CHORD	BEARING
C1	70.07	4878.907	80.27	58.427	N85°18'44"W
C2	70.07	2022.377	24.97	24.767	S78°59'03"W



RECORD DRAWINGS

NOTE: THESE PLANS HAVE BEEN REVISED TO CONFORM WITH CONSTRUCTION RECORDS PROVIDED TO SPIARS ENGINEERING, INC. BY CONTRACTOR AND CITY STAFF AFTER AS-BUILTS WERE ORIGINALLY SUBMITTED TO THE CITY OF ROCKWALL BY OTHERS. MODIFICATIONS TO PAVING, PAD AND UTILITY ELEVATIONS, AS REFLECTED ON THESE PLANS, WERE VERIFIED BY FIELD SURVEY PERFORMED IN DECEMBER, 2008.

BENCH MARK #1
BRASS CAP IN CL. OF MEDIAN NORTH ON LAKESHORE DRIVE NORTH OF THE INTERSECTION OF NORTH ALAMO AND LAKESHORE DRIVE.

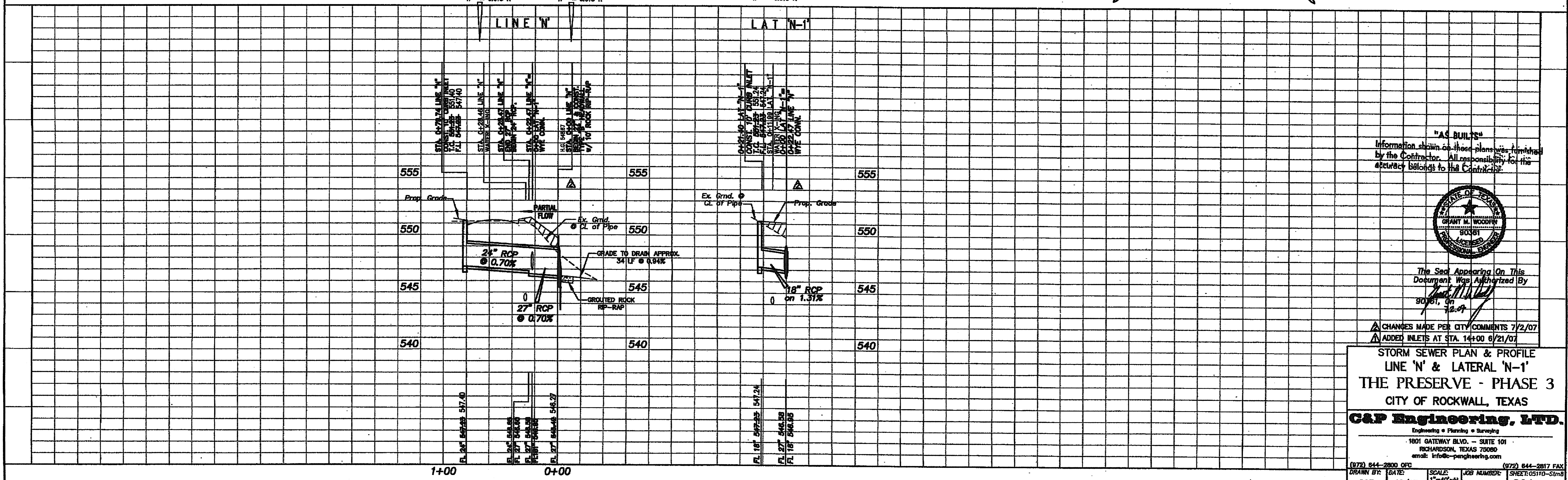
ELEV. 524.78

BENCH MARK #2
BRASS CAP IN CL. OF MEDIAN ON LAKESHORE DRIVE BETWEEN TO STREETS, STONEBROOK AND AMESBURY BEING NORTH OF HAVEN HILL.

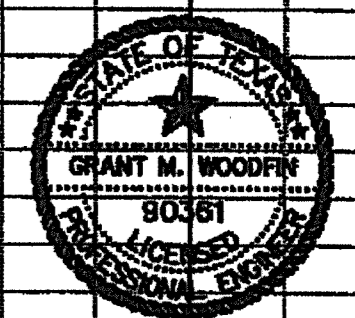
ELEV. 518.83

CAUTION EXISTING UTILITIES III
EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

<p>24" RCP Q₁₀₀ = 19.41 cfs Q₅₀ = 19.83 cfs C₁₀₀ = 0.007 ft/ft V = 6.18 fps V_h = 0.59 ft n = 0.013 ft</p>	<p>27" RCP Q₁₀₀ = 21.17 cfs Q₅₀ = 23.91 cfs C₁₀₀ = 0.005 ft/ft V = 5.32 fps V_h = 0.44 ft n = 0.013 ft</p>	<p>18" RCP Q₁₀₀ = 2.89 cfs Q₅₀ = 4.27 cfs C₁₀₀ = 0.0007 ft/ft V = 1.52 fps V_h = 0.336 ft n = 0.013 ft</p>
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"AS BUILTS"
Information shown on these plans was furnished by the Contractor. All responsibility for the accuracy belongs to the Contractor.



The Seal Appearing On This Document Was Authorized By
Grant M. Woodruff
9/26/07

CHANGES MADE PER CITY COMMENTS 7/2/07
ADDED INLETS AT STA. 14+00 8/21/07

STORM SEWER PLAN & PROFILE
LINE 'N' & LATERAL 'N-1'
THE PRESERVE - PHASE 3
CITY OF ROCKWALL, TEXAS

C&P Engineering, LTD.

Engineering • Planning • Surveying

1801 GATEWAY BLVD. - SUITE 101

RICHARDSON, TEXAS 75080

email: info@c-pengineering.com

(972) 644-2800 OFC (972) 644-2817 FAX

DRAWN BY: C&P DATE: 12/05 SCALE: 1"=40'-H 1"=4'-V JOB NUMBER: 05110 SHEET: 05110-5 of 8

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