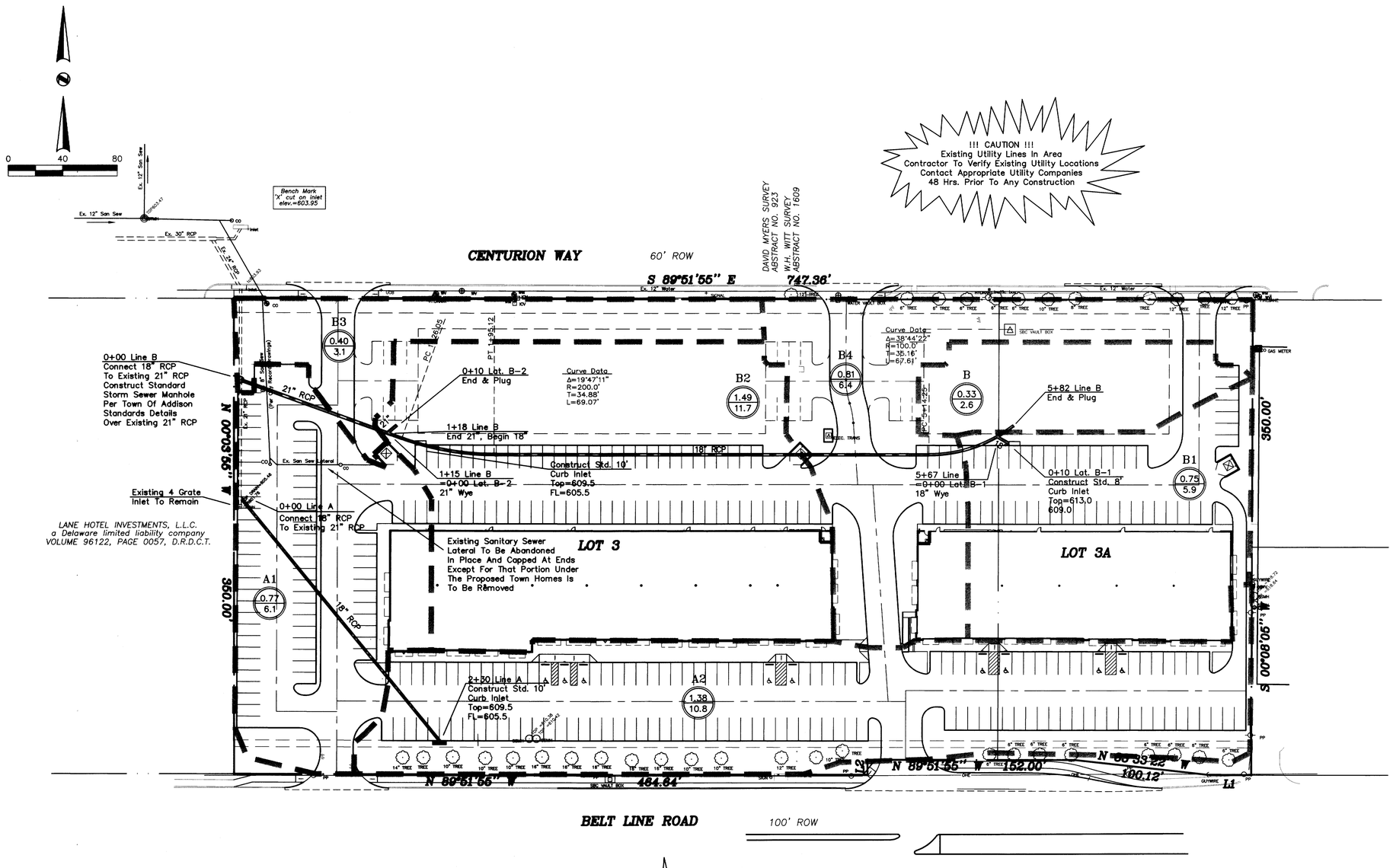

NUMBER	DIRECTION	DISTANCE
L1	N 89°51'55" W	30.00'
L2	S 00°08'05" W	11.00'

!!! CAUTION !!!
Existing Private Utility Lines On Site
Contractor To Verify Existing Utility Locations
Field Verify Both Location & Depth
Visibly Mark All Existing Utilities
Prior To Any Construction
These Markings Are To Be Maintained
And Remain During The Entire
Construction Process

General Notes

1. All materials and construction shall be in accordance with the Town of Addison Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (Latest Revision).

2. Existing utilities are shown schematically and are for the contractors guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 48 hours prior to any excavation to request exact field location of utilities.

3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs of damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.

4. All storm sewer pipe 18" and larger shall be Class III RCP. All storm sewer pipe 15" and smaller shall be HDPE drainage pipe or approved equal.

5. Contractor shall be responsible for maintaining trench safety requirements in accordance with the latest standards of O.S.H.A. or any other agency having jurisdiction for excavation and trenching procedures. Contractor shall provide and implement a trench safety plan complying with O.S.H.A.

DRAINAGE CRITERIA

Q = C I A
C = 0.9
I_{100} = 8.74
tc = 10 min.

1 ← Drainage Area No.
X.XX ← Acres
X.X ← Q_{100} (cfs)

Drainage Divide Line

DRAINAGE AREA CALCULATIONS

Drainage Area No.	Drainage Area (Acres)	C	t_c (min)	I_{100} (in/hr)	Q_{100} (cfs)	Notes
A1	0.55	0.9	10	8.74	4.3	
A2	1.38	0.9	10	8.74	10.8	
B	0.33	0.9	10	8.74	2.6	
B1	0.75	0.9	10	8.74	5.9	
B2	1.49	0.9	10	8.74	11.7	
B3	0.40	0.9	10	8.74	3.1	
B4	0.81	0.9	10	8.74	6.4	

EXISTING FLOW TO CENTURION WAY

Existing Area Sheet Flowing to System in Centurion Way
Area = 3.79 Ac
C = 0.90
Tc = 10 min
I_{100} = 8.74 in/hr
Q_{100} = 29.8 cfs

Existing Area to 21" RCP on West Property Line
Area = 1.91 Ac
C = 0.90
Tc = 10 min
I_{100} = 8.74 in/hr
Q_{100} = 15.0 cfs

Total Existing Flow to Centurion Way =
Sheet Flow + Run-off to Catch Basin =
29.8 + 15.0 = 44.8 cfs

PROPOSED FLOW TO CENTURION WAY

Proposed Area Sheet Flowing to System in Centurion Way
Areas B3 and B4 = 9.5 cfs

Proposed Area to 21" RCP on West Property Line
Areas A1, A2, B, B1, B2 = 35.3 cfs

Total Proposed Flow to Centurion Way =
Sheet Flow + Run-off to Catch Basin =
9.5 + 35.3 = 44.8 cfs

Total Existing Flow to Centurion Way (44.8 cfs) =
Proposed Flow to Centurion Way (44.8 cfs)
Therefore, Total Run-off to Centurion Way is Unchanged

However, Sheet Flow to Centurion Way has been reduced (30.6 cfs to 9.5 cfs) by 21.1 cfs. Run-off to existing 21" RCP at West Property Line has been increased to reduce gutter flow in Centurion way.

RECORD DRAWING
REVISED TO CONFORM TO CONSTRUCTION RECORDS
Ronny Klingbeil, P.E.
Date 1/3/07

MISC. INFORMATION	REVISION	DATE	DESCRIPTION
CITY BENCHMARK SQUARE CUT ON INLE NORTHEAST CORNER OF INTERSECTION BELTLINE AND MIDWAY ELEV. 627.93			
NOTE: Prior to beginning any construction or construction staking, it shall be the Contractor's responsibility to contact the civil engineer to insure that all parties are in possession of the most current set of construction documents.			

RLK ENGINEERING
RLK ENGINEERING, LLC
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
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STATE OF TEXAS
RONNY KLINGBEIL
76837
LICENSED PROFESSIONAL ENGINEER
1/3/07

DRAINAGE PLAN
ADDISON WEST INDUSTRIAL PARK
4135 BELT LINE ROAD
ADDISON, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	04090 DRG2.dwg	1" = 40'	C 3 OF 8
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	01/03/07	04090	