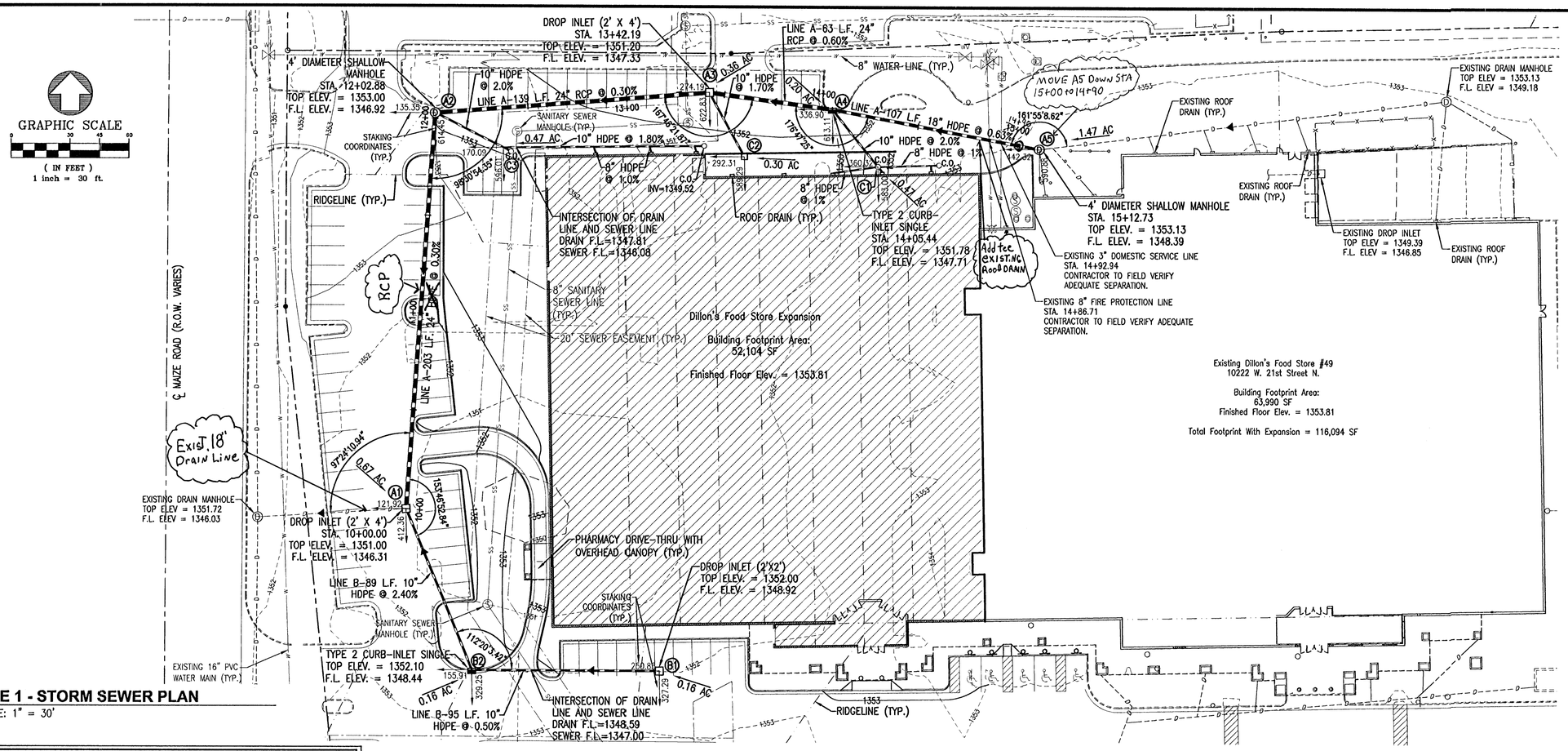


1 LINE 1 - STORM SEWER PLAN

SCALE: 1" = 30'

STORM DRAINAGE - PIPE DATA										
FROM	INV. ELEV.	TO	INV. ELEV.	PIPE DIA. (IN.)	LENGTH (FT.)	SLOPE (%)	DESIGN Q (5 YR) (CFS)	PIPE CAPACITY (CFS)	MAX. VELOCITY (FPS)	DRAIN AREA (AC)
A5	1348.39	A4	1347.71	18	107	0.63	6.03	8.34	4.72	1.47
A4	1347.71	A3	1347.33	24	63	0.60	8.78	17.52	5.58	2.14
A3	1347.33	A2	1346.92	24	139	0.30	9.44	12.39	3.94	2.80
A2	1346.92	A1	1346.31	24	203	0.30	11.37	12.39	3.94	3.27
B1	1348.92	B2	1348.44	10	95	0.50	0.66	1.55	2.84	0.16
B2	1348.44	A1	1346.31	10	89	2.40	1.31	3.39	6.22	0.32
C1	1348.47	A4	1347.71	10	38	2.00	1.93	3.10	5.68	0.47
C2	1347.98	A3	1347.33	10	38	1.70	1.23	2.86	5.24	0.30
C3	1347.70	A2	1346.92	10	39	2.00	1.93	3.10	5.68	0.47

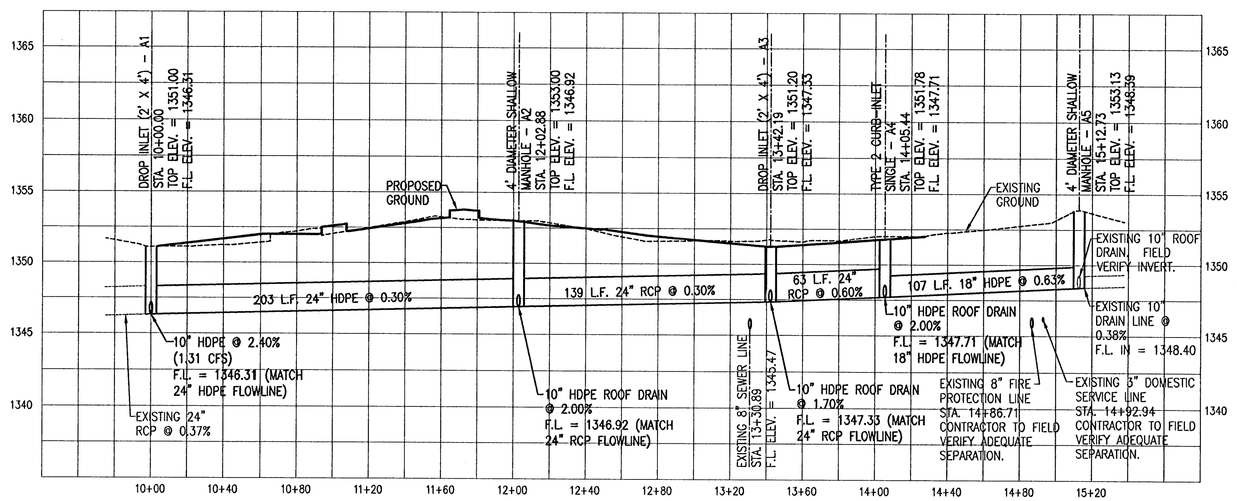
* ALL STORM DRAINAGE PIPES SHALL BE CLASS III RCP, ADS N-12 ST IB HDPE OR SCH 40 PVC (≤12") INSTALLED PER CITY OF WICHITA STANDARD CONSTRUCTION SPECIFICATIONS

STORM DRAINAGE - STRUCTURE DATA					
STRUC. NO.	STRUC. TYPE	GRATE/THROAT ELEV.	INVERT ELEV.	AREA (AC)	DESIGN Q 5-YR (CFS)
A5	4' DIAMETER SHALLOW MANHOLE	1353.13	1348.39	1.47	6.03
A4	TYPE 2 CURB-INLET SINGLE	1351.78	1347.71	0.20	0.82
A3	DROP INLET (2' X 4')	1351.20	1347.33	0.36	1.48
A2	4' DIAMETER SHALLOW MANHOLE	1353.00	1346.92	0.00	0.00
A1	DROP INLET (2' X 4')	1351.00	1346.31	0.67	2.75
B1	DROP INLET (2' X 2')	1352.00	1348.92	0.16	0.66
B2	TYPE 2 CURB-INLET SINGLE	1352.10	1348.44	0.16	0.66
C1	CLEANOUT	1351.58	1348.47	0.47	1.93
C2	DROP INLET (2' X 4')	1349.31	1347.98	0.30	1.23
C3	CLEANOUT	1352.92	1347.70	0.47	1.93

* ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED PER CITY OF WICHITA STANDARD CONSTRUCTION SPECIFICATIONS

2 LINE 1 - STORM SEWER PROFILE

SCALE: 1" = 40' HORIZONTAL, 1"= 5' VERTICAL



PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE ENGINEER IS NOT RESPONSIBLE FOR THE CORRECTNESS OF SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON.

GRADING NOTE:
SITE PREPARATION SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT DATED SEPTEMBER, 2005, PREPARED BY ALLIED LABORATORIES OR THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

GRADING AND DRAINAGE NOTES

1. IN ALL AREAS OF CONSTRUCTION, TOPSOIL SHALL BE STRIPPED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THIS TOPSOIL WILL BE USED FOR THE FINISH GRADING WORK. PROVIDE EROSION CONTROL AS NECESSARY TO PREVENT TOPSOIL FROM ERODING AND DAMAGING ADJACENT PROPERTIES.
2. CLEAR AND GRUB ALL AREAS OF THE SITE WHERE CUT OR FILL IS TO OCCUR. REMOVE ORGANIC MATTER, FOREIGN MATERIAL, PAVEMENT, TOPSOIL, FENCES, TRASH, BRUSH, BURIED OBSTRUCTIONS SUCH AS TREE STUMPS, ROOTS AND INACTIVE DRAINAGE STRUCTURES. DISPOSE OF ALL MATERIAL REMOVED WHICH IS NOT TO BE REPLACED. BURNING OF MATERIAL ON THE SITE WILL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE DESIGNER AND AFTER THE REQUIRED PERMITS HAVE BEEN OBTAINED FROM THE APPLICABLE AUTHORITIES.
3. ALL AREAS SHALL BE COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION PREPARED BY ALLIED LABORATORIES DATED SEPTEMBER, 2005.
4. PROPER DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PROJECT SITE TO PREVENT THE INCREASE OF THE IN-SITU SOILS MOISTURE CONTENT. FLUCTUATIONS MAY NECESSITATE SOIL IMPROVEMENTS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
5. THE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO DETECT ZONES OF UNSUITABLE AND/OR EXCESSIVELY WET SOILS.
6. SITE CONTRACTOR SHALL PROVIDE SUBGRADE FOR BUILDING PAD PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY ALLIED LABORATORIES. THE EXPOSED SURFACE IN PAVEMENT OR BUILDING FLOOR AREAS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER AND MAY REQUIRE SOME IMPROVEMENTS IF THE MOISTURE CONTENTS ARE BEYOND ACCEPTABLE LIMITS.
7. THE PREPARED SUBGRADE SHALL PROVIDE A MAXIMUM ALLOWABLE BEARING PRESSURE OF 2500 PSF. ALL FOOTING AND FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE PLACING FOUNDATIONS.
8. ESTABLISH PERMANENT VEGETATION WITH SOD ON ALL DISTURBED AREAS.
9. ALL SPOT ELEVATIONS ALONG CURBLINE ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE.

BENCHMARK:

SITE TBM: CITY OF WICHITA STANDARD DISC 64.0' E & 99.0' S OF INTERSECTION OF CENTERLINES 21ST ST. N. & MAIZE RD.

ELEVATION: = 1351.70 NGVD

CONTOUR INTERVAL = 1 FOOT

STAKING COORDINATE NOTE:

ALL COORDINATES SHOWN REFERENCE EACH PROPOSED STRUCTURE TO THE PERPENDICULAR DISTANCE FROM THE CENTER OF THE STRUCTURE TO THE CENTER LINE OF MAIZE RD TO THE WEST AND THE CENTERLINE OF 21ST STREET N. TO THE SOUTH.

CARA L. WEBER LICENSED 17642 8/04/06 KANSAS PROFESSIONAL ENGINEER

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Planning · Architecture · Engineering · Management
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901.748.0810 901.672.0811 FAX

DILLON'S FOOD STORE #49 BUILDING EXPANSION
PROJECT NAME
PLAN & PROFILE OF DRAINAGE LINE A
SHEET TITLE

ATP	ATP	CLM
DESIGN BY	DRAWN BY	CHECKED BY
08-08-06	21047-02	2 OF 11
DATE	JOB NUMBER	SHEET