GENERAL NOTES

1. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.

2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

4. TREES TO BE REMOVED ARE MARKED ✕ . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.

5. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.

6. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

7. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL	687-2470
	OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

CABLEVISION	263-2061
KG&E (GAS & ELECTRIC)	383-8600
SOUTHWESTERN BELL TELEPHONE COMPANY	1-800-734-7590
CITY OF WICHITA WATER & SEWER MAINT.	262-6000
ARKLA GAS COMPANY	946-0096

8. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

9. CONTRACTOR SHALL RESEED AND MULCH ALL DISTRUBED AREAS. COST SHALL BE CONSIDERED SUBSIDIARY TO SITE RESTORATION.

APPROVED AS NOTED

BY CITY ENGINEER OF WICHITA

STORM SEWERS VRH 5/15/02

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

PRIVATE STORM WATER SEWER PLANS FOR

ALLEN ELEMENTARY SCHOOL

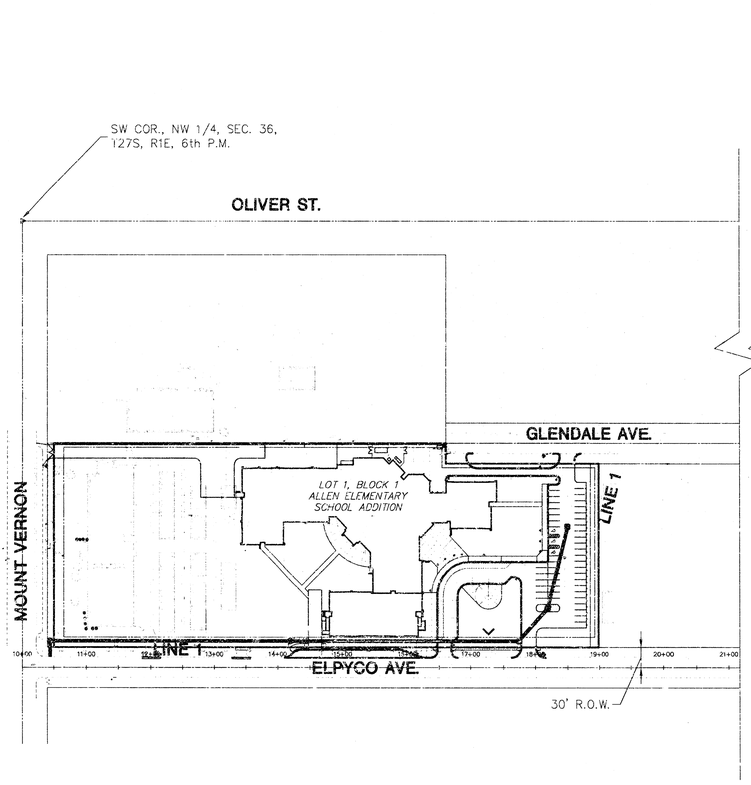
IN THE CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

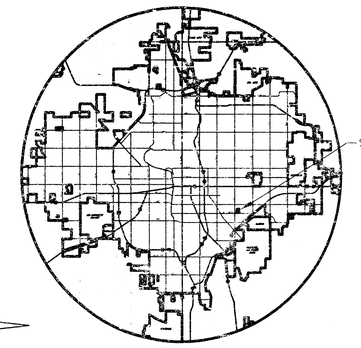
PROJECT NO. 1240 PPS

MICHAEL E. LINDESAK, CITY ENGINEER

OCA NO. 607861



SCALE: 1" = 100'



LOCATION MAP

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	DETAILS
4-5	LINE 1

COMBINE WITH DWG 1240

BENCHMARKS

BM#1 C.O.W. benchmark top of brass tap at NE. corner of Mount Vernon and Oliver Street.
Elevation = 148.60' (city datum)

BM#2 Top of North curb return at NE. corner of Elpyco Ave. and Mt. Vernon.
Elevation = 141.33 (city datum)

5/14/02

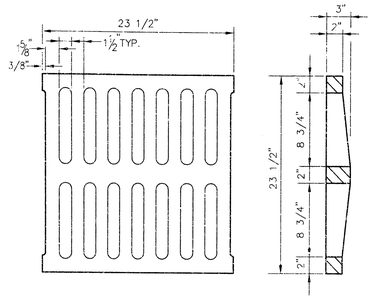
MKEC
ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

ALLEN ELEMENTARY SCHOOL
PROJECT NAME

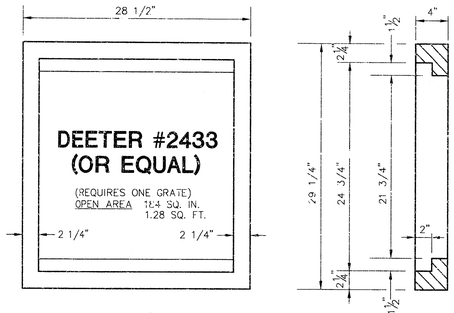
STORM WATER SEWER
TITLE SHEET
SHEET TITLE

DESIGN BY:	DRAWN BY:	CHECKED BY:
DK	GJR	DK
DATE	DRAWING NAME	SHEET / OF
MAY 2002	TITLE	1 / 5

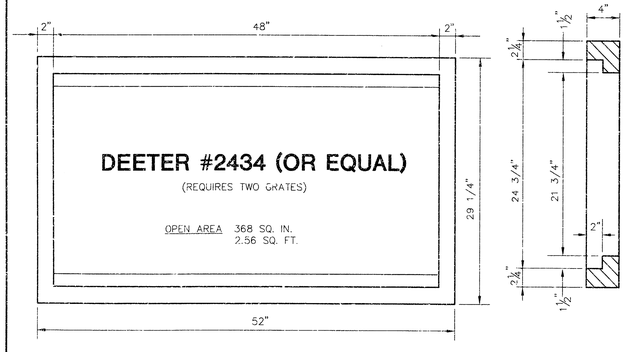
NOTE: GRATES SHALL BE IMPRINTED ON THE TOP SURFACE WITH "CITY OF WICHITA" USING LETTERS AT LEAST 1" IN HEIGHT. OTHER MARKING METHODS MAY BE USED ONLY IF APPROVED BY THE ENGINEER.



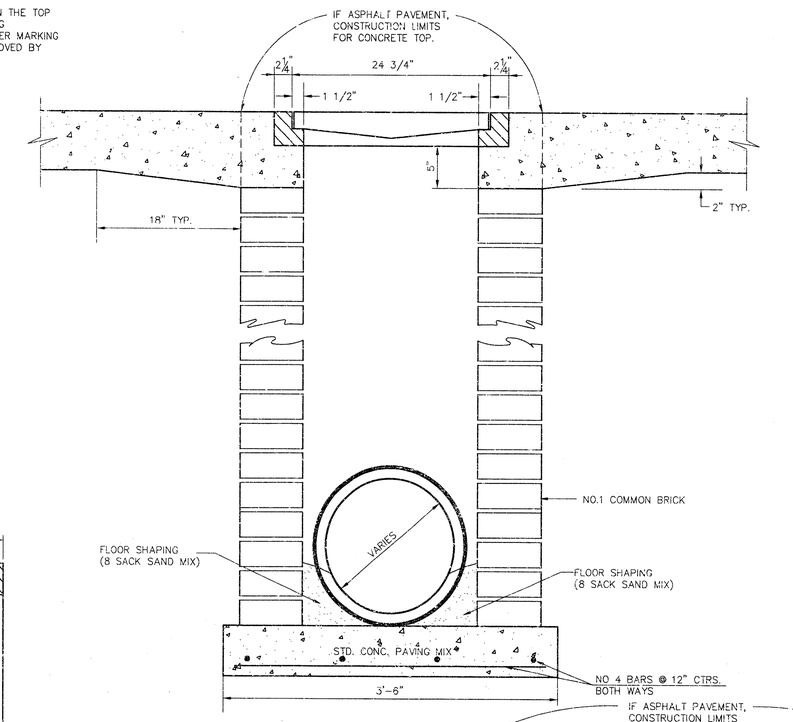
24"x24" GRATE DETAIL

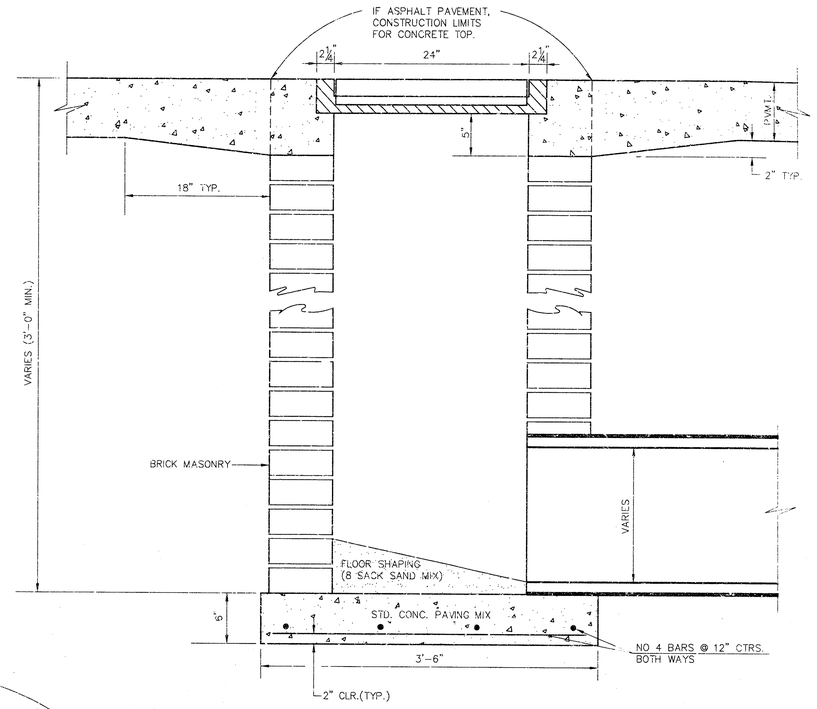


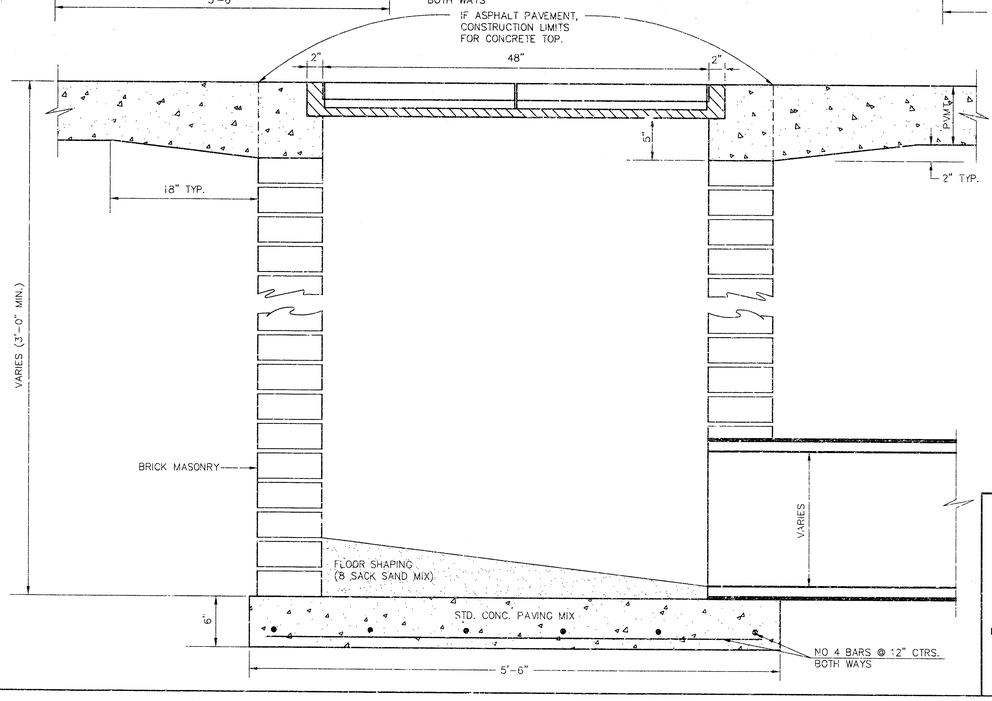
SINGLE 24"x24" FRAME DETAIL



DOUBLE 24"x24" FRAME DETAIL







ORIFICE EQUATION		
$Q=C*A*\sqrt{2gh}$		C=0.60
h (DEPTH)	#2433 (SINGLE)	#2434 (DOUBLE)
0.1	1.95 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

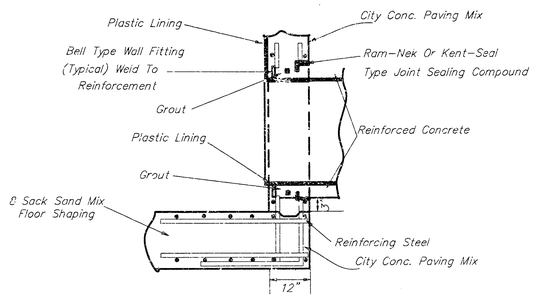
MKEC
ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

ALLEN ELEMENTARY SCHOOL
PROJECT NAME

DROP INLET DETAILS
SHEET TITLE

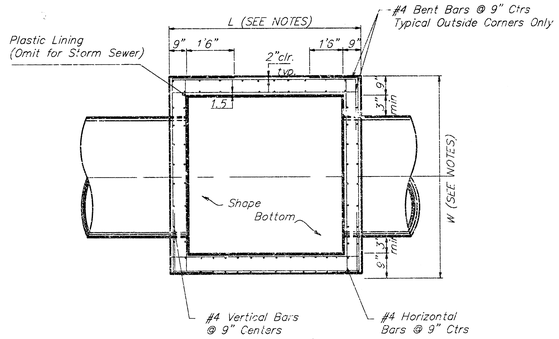
MKEC	GJR	MKEC
DESIGN BY:	DRAWN BY:	CHECKED BY:
MAY 2002	DETAIL-1	2 / 5
DATE	DRAWING NAME	SHEET/OF

Mon May 13 15:24:18 2002



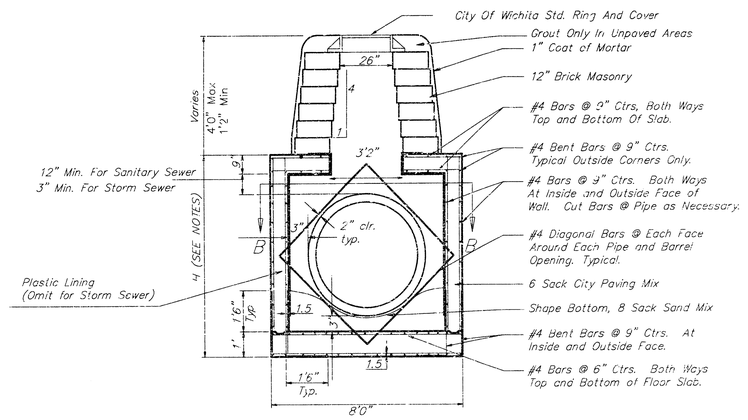
R.C.P. CONNECTION DETAIL

SANITARY SEWER ONLY



NOTE:
Bend Bars Not More Than 8"
to Clear Pipes, or Cut Bars
2" Clear of Pipe, as Necessary.

TOP VIEW



REINFORCED CONCRETE MANHOLE

MANHOLE STACK 2.33' TO 4'0"

GENERAL NOTES:

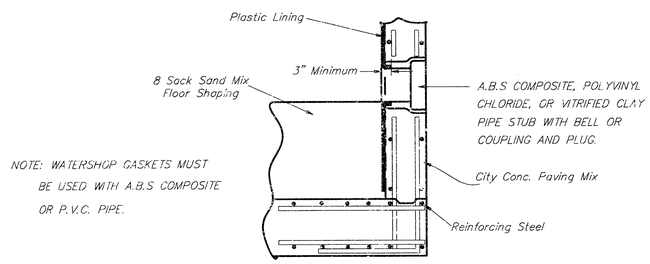
1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE WALLS AND BASES SHALL CONFORM TO THE REQUIREMENTS FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS, USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

2. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING. USING 8-SACK SAND MIX CONCRETE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS.

3. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE RE-QUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

4. THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF MANHOLE WALL.

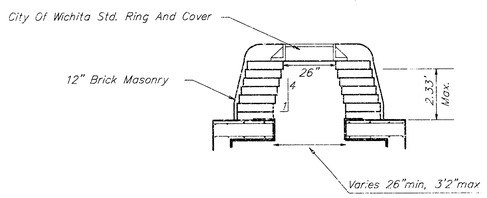
5. "L" & "W" SHALL BE AS SPECIFIED IN THE PLANS.



NOTE: WATERSHOP GASKETS MUST BE USED WITH A.B.S COMPOSITE OR P.V.C. PIPE.

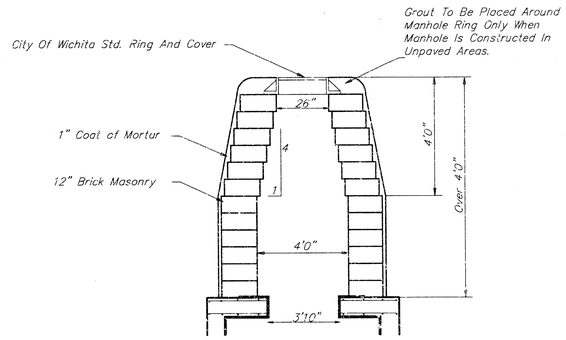
PIPE STUB DETAIL

SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE

MANHOLE STACK LESS THAN 2.33'



REINFORCED CONCRETE MANHOLE

MANHOLE STACK OVER 4'0"

REV. 1/05/01, MCG

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-4114 FAX

APRIL 99

REINFORCED CONCRETE MANHOLE

M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER	INDEX CODE
XXX-XXXXX	XXXXXX
DATE	SHEET 3 OF 5

Date Mfr Rldwg Tue May 14 11:26:29 2002

ALLEN ELEMENTARY
STORM WATER SEWER PLANS
LINE 1

SCALE: 1"=20'
20 10 0 20

STA. 3+95.84 LINE 1
CONST. STD. MANHOLE
TOP ELEV. = 147.00

STA. 0+22.17 LINE 1
CONST. STD. MANHOLE
TOP ELEV. = 143.10

℄ MT. VERNON ROAD

ALLEN ELEMENTARY
SCHOOL ADDITION

PROPOSED BUILDING
FF=151.00
LOT 1

PROPOSED BUILDING
FF=151.00

145 148 149 148 147 146

6'

15' BLDG. S.B.

9.27'

180°0'0"

90°0'0"

18" RCP — LINE 1 — LINE 1 — 18" RCP

)+00 11+00 12+00 13+00 14+00 15+00 16+00

CONNECT TO EXIST. CURB INLET

BM#2

℄ ELPYCO AVE.

PLAN LINE 1
SCALE: 1"=20'

PROFILE LINE 1
SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'

EXIST. CURB INLET
EX. FIBER OPTIC
STA. 0+22.17
CONST. STD. MANHOLE
MANHOLE TOP=143.10
STA. 3+95.84
CONST. STD. MANHOLE W/
8" STUB (NW & SW)
MANHOLE TOP=147.00
MATCH LINE

EXIST. GRADE
PROP. GRADE

150 145 140 135 130 125

22.17 L.F. OF
18" RCP @ +0.40%

373.67 L.F. OF 18" RCP @ +0.29%

353.38 L.F. OF 18" RCP @ +0.34%

FL OUT=137.41
FL IN=137.51
FL IN=137.51 (18" E)

FL OUT=137.60 (E)
FL IN=137.70 (N)

FL=137.94

FL=138.23

FL=138.52

FL OUT=138.80 (S)
FL IN=138.92 (N)
FL IN=139.63 (8" NW)
FL IN=139.63 (8" SW)

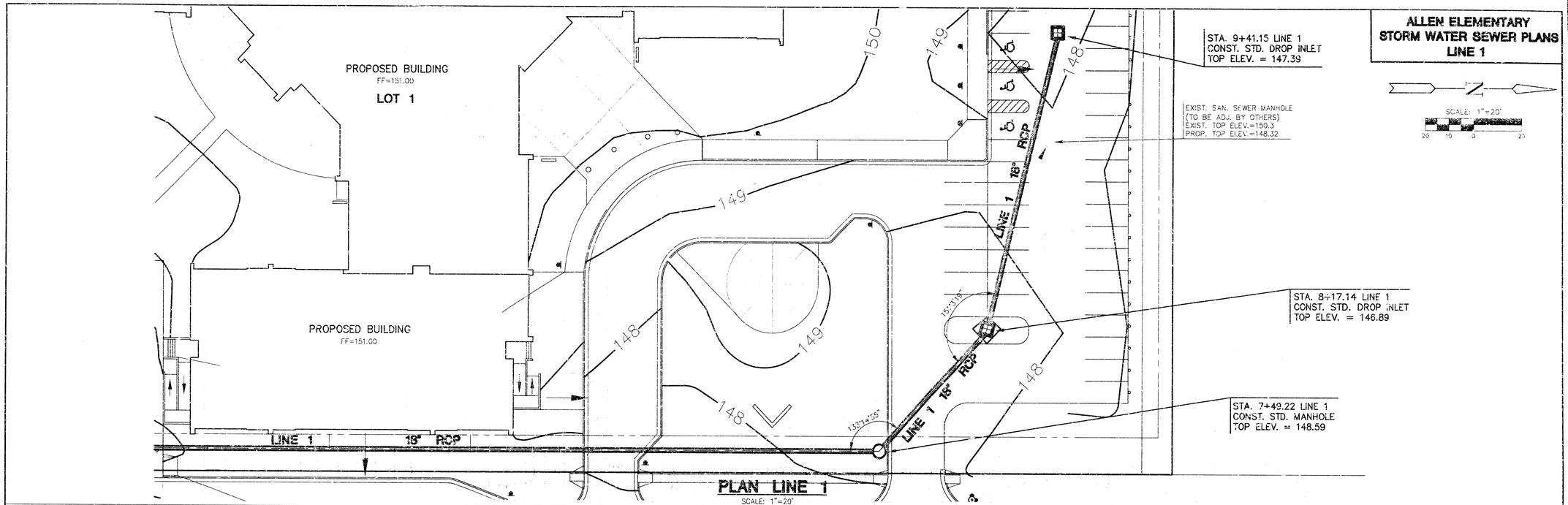
FL=139.27

0 1 2 3 4 5

4/5

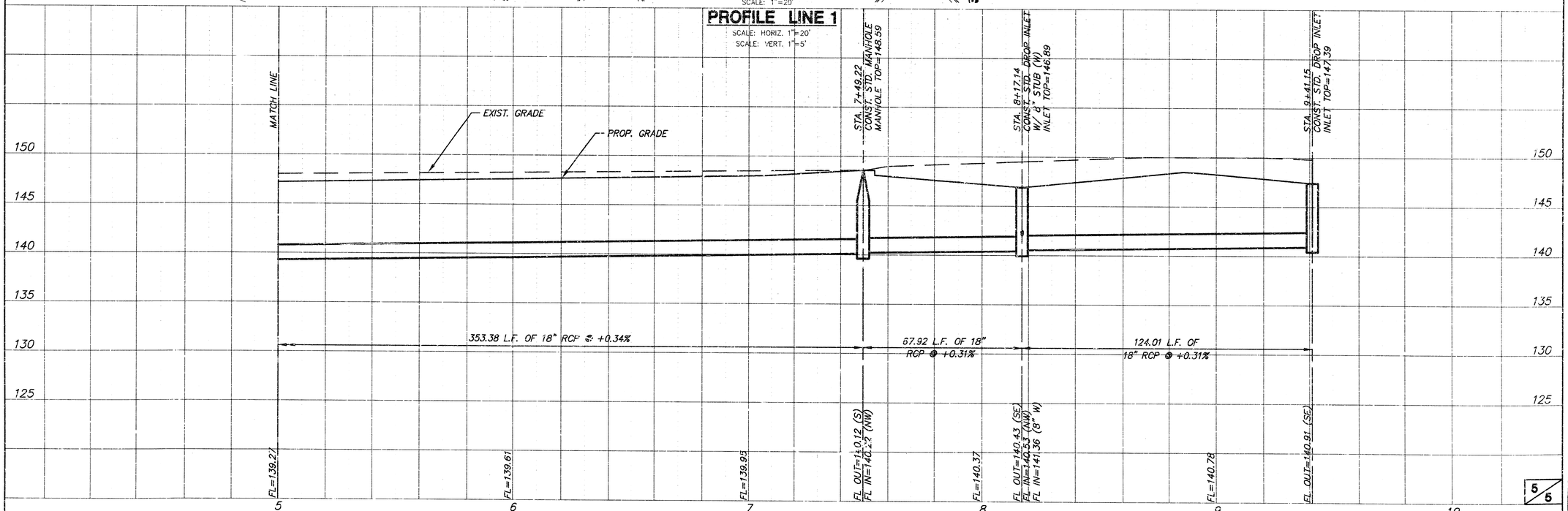
Tue May 14 13:55:10 20u2

ALLEN ELEMENTARY
STORM WATER SEWER PLANS
LINE 1



PLAN LINE 1
SCALE: 1"=20'

PROFILE LINE 1
SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'



5/5