SITE IMPROVEMENTS FOR

TALLGRASS PLAZA

PRIVATE SANITARY & STORM SEWER EXTENSION
TO SERVE DILLONS AT TALLGRASS, 2244 N. ROCK ROAD COURT

PROJ. NO. 468·76·245·80001·000·000·054

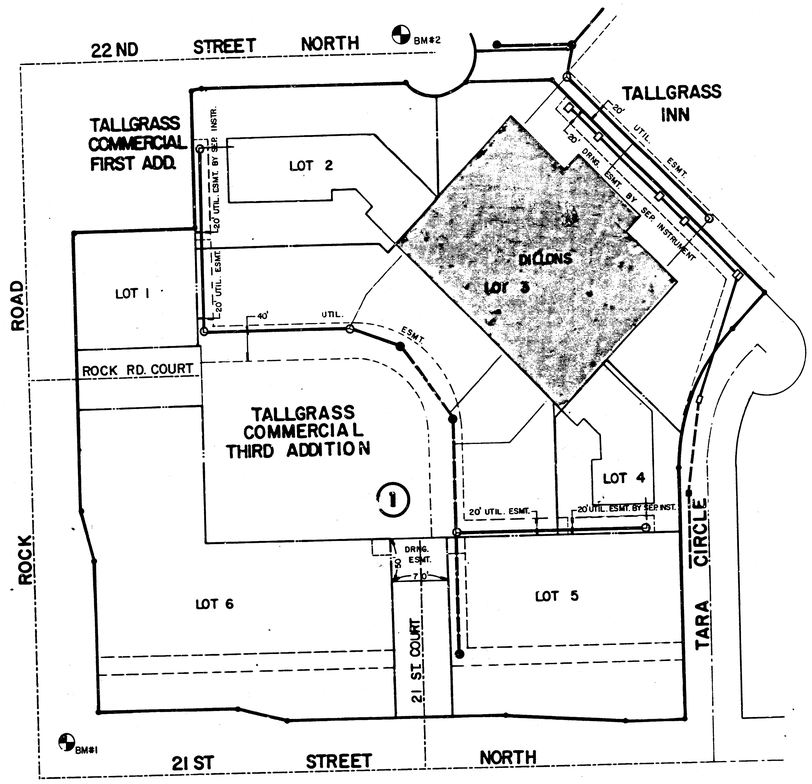
FEBRUARY 1986

GENERAL NOTES

1. 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
2. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
3. 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 UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
4. CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES PRIOR TO EXCAVATION:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE	1-316-268-2256
CABLEVISION	262-0661
GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	261-6248
KANSAS ONE-CALL	1-800-344-7233

5. ALL WORK TO BE DONE ACCORDING TO CITY OF WICHITA SPECIFICATIONS.



N

SCALE: 1" = 80'

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

Sanitary Sewers DB 3/5/86
Storm Sewers DB 3/5/86
Driveway Approaches
Water Mains
Paving

NOTE TO CONTRACTOR

This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR will pay the City of Wichita for all costs of plan review, inspection and booking per contract.

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
~~2~~	~~SITE GRADING PLAN~~
3	SITE UTILITY PLAN
4	SANITARY SEWER PLAN & PROFILE
5	SANITARY SEWER PLAN & PROFILE
6	STORM SEWER PLAN & PROFILE
7	STORM SEWER INLET DETAIL
8	STANDARD CURB INLET DETAIL
~~9~~	~~SITE PAVING PLAN~~
~~10~~	~~SITE DIMENSION & STRIPING PLAN~~
~~11~~	~~PAVING DETAILS~~
12	INTERSECTION DETAILS

BENCH MARKS

BM #1 Rock Road & 21st Street North
City of Wichita Bench Mark Disc, 45' north and 48' east of centerline both
Elev. = 214.57

BM #2 "⊡" cut on top of north curb south of fire hydrant at east end of 22nd Street North
Elev. = 215.83

MKEC

DILLONS AT TALLGRASS

COVER SHEET

Design KKL
Drawn by DPR
Checked by KHB/DS
Date 2-21-86
Job no

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #600
WICHITA, KANSAS 67226
682-6561

Sheet 1 of 10

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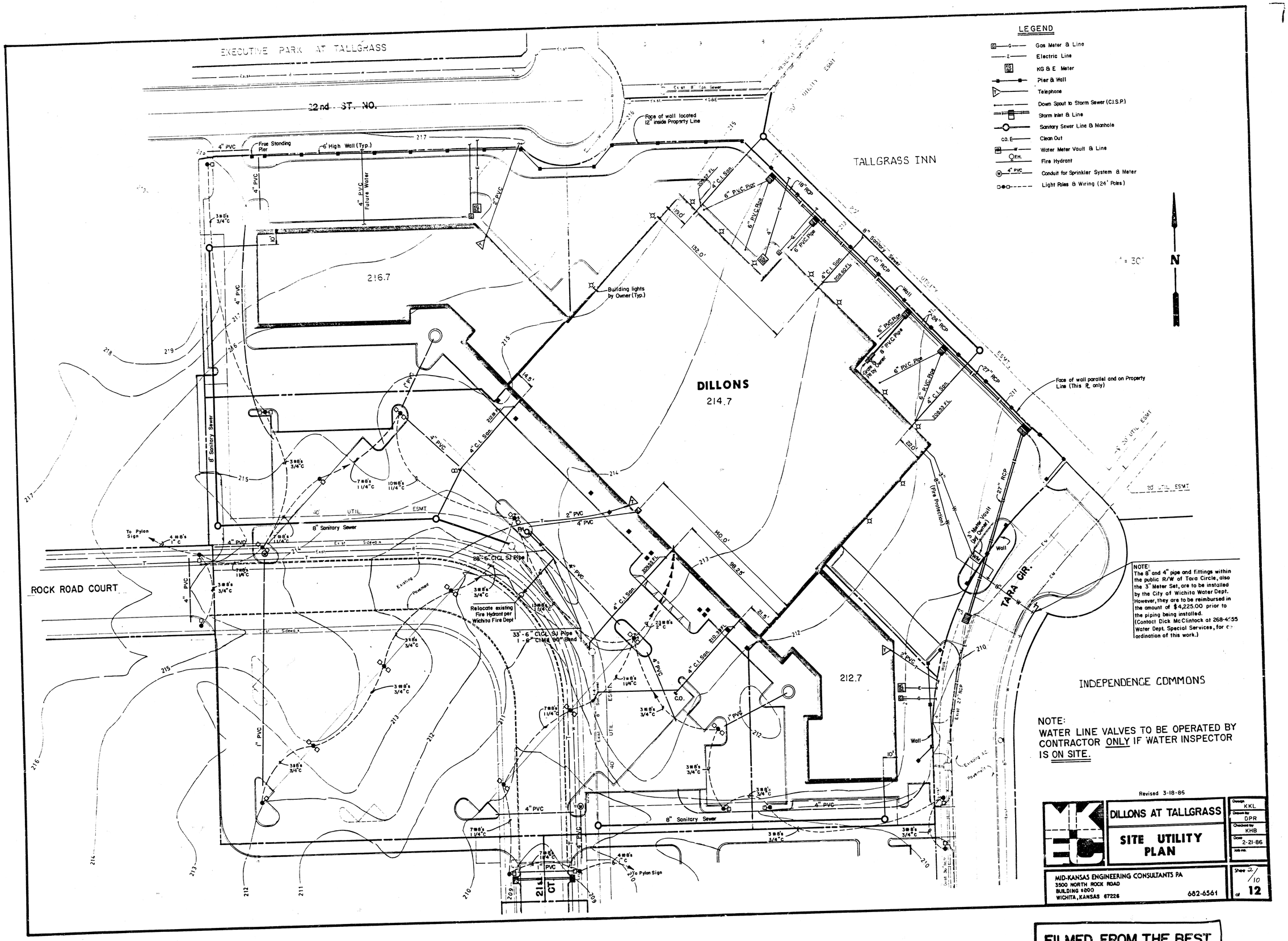

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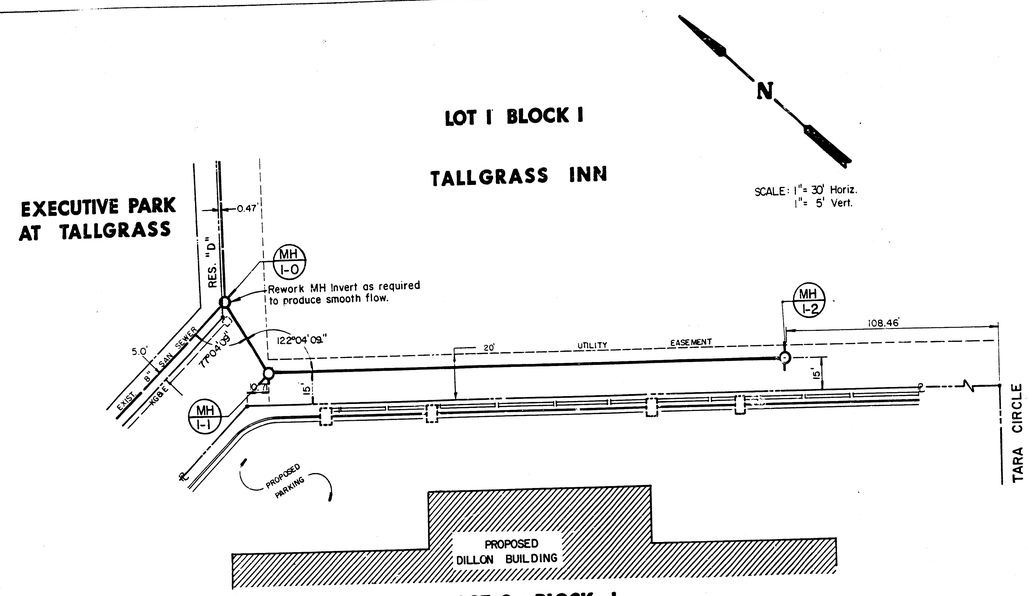

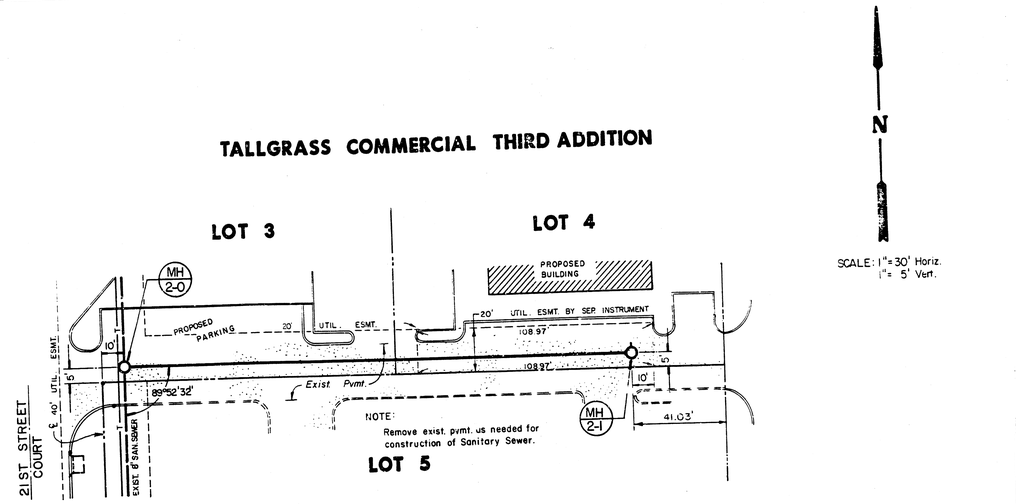

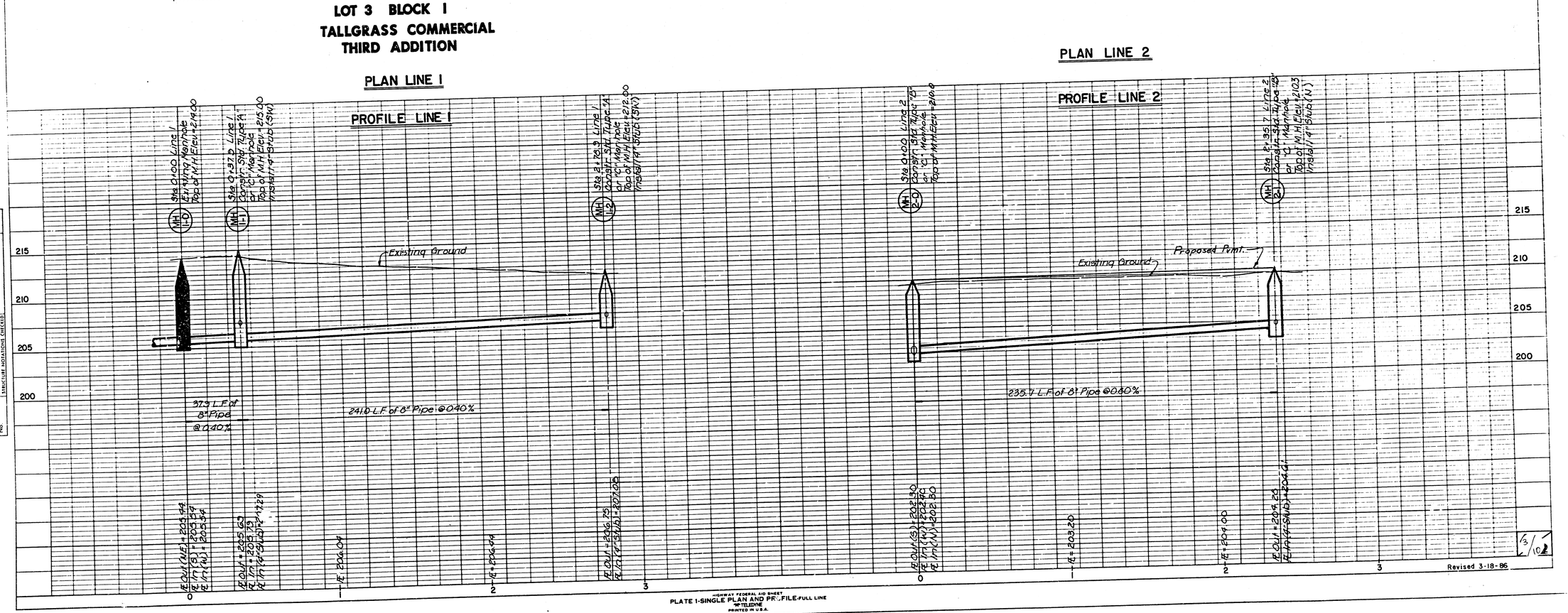

HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
"W" TELEDYNE
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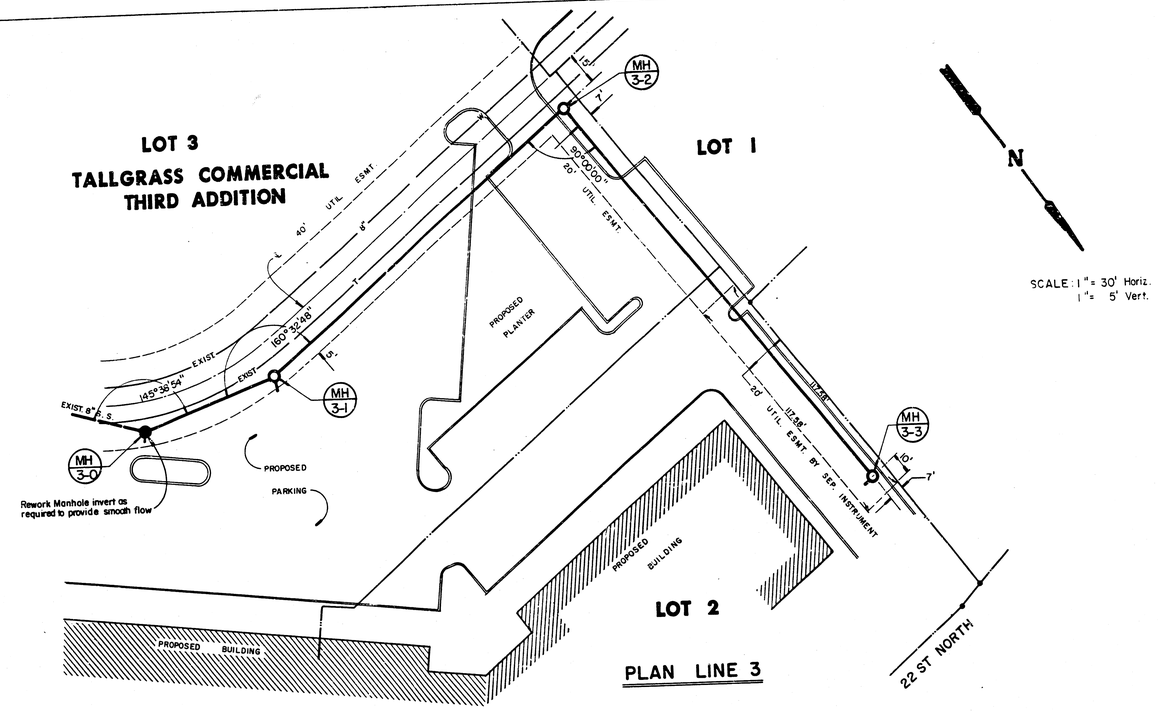

NOTE:

1. 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

2. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.

3. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.

4. 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 UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

5. ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE IN THE SAME MANNER AS RISERS.

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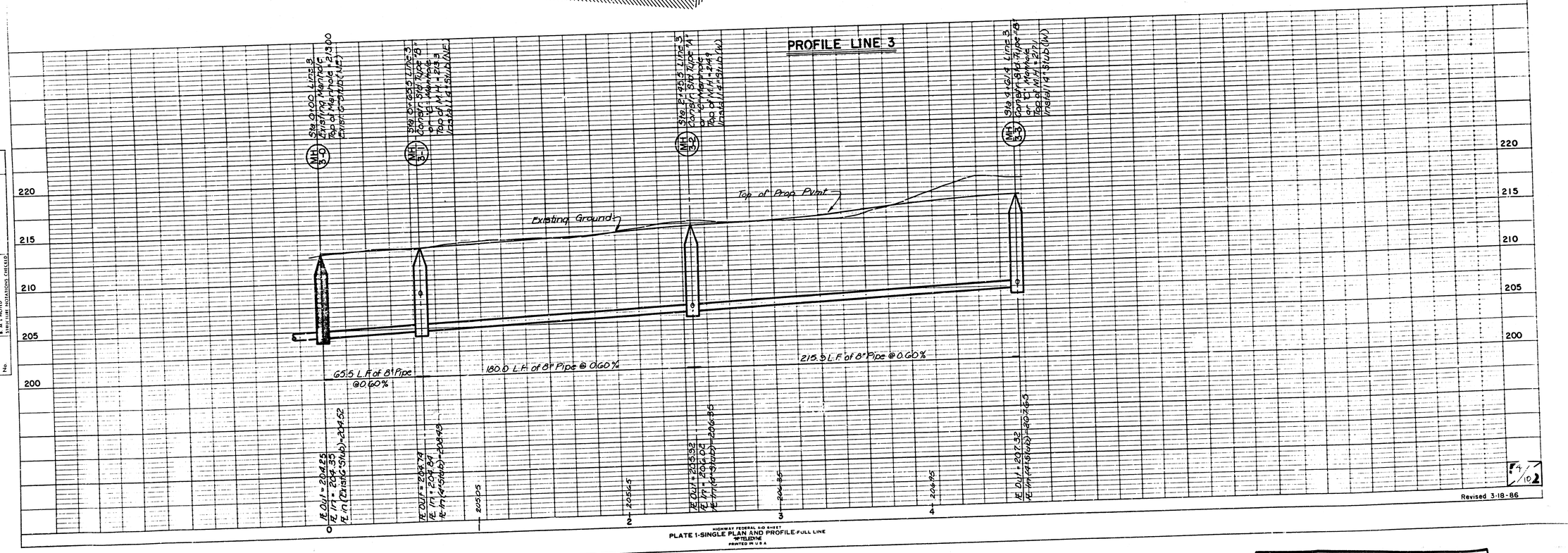
PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
DESIGNED
CHECKED
BY CITY WAY CHECKED



PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
DESIGNED
CHECKED
B. & N. HOLD
STREET LINE DEVIATIONS CHECKED
BY
DATE

HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
WHITEBRIAR
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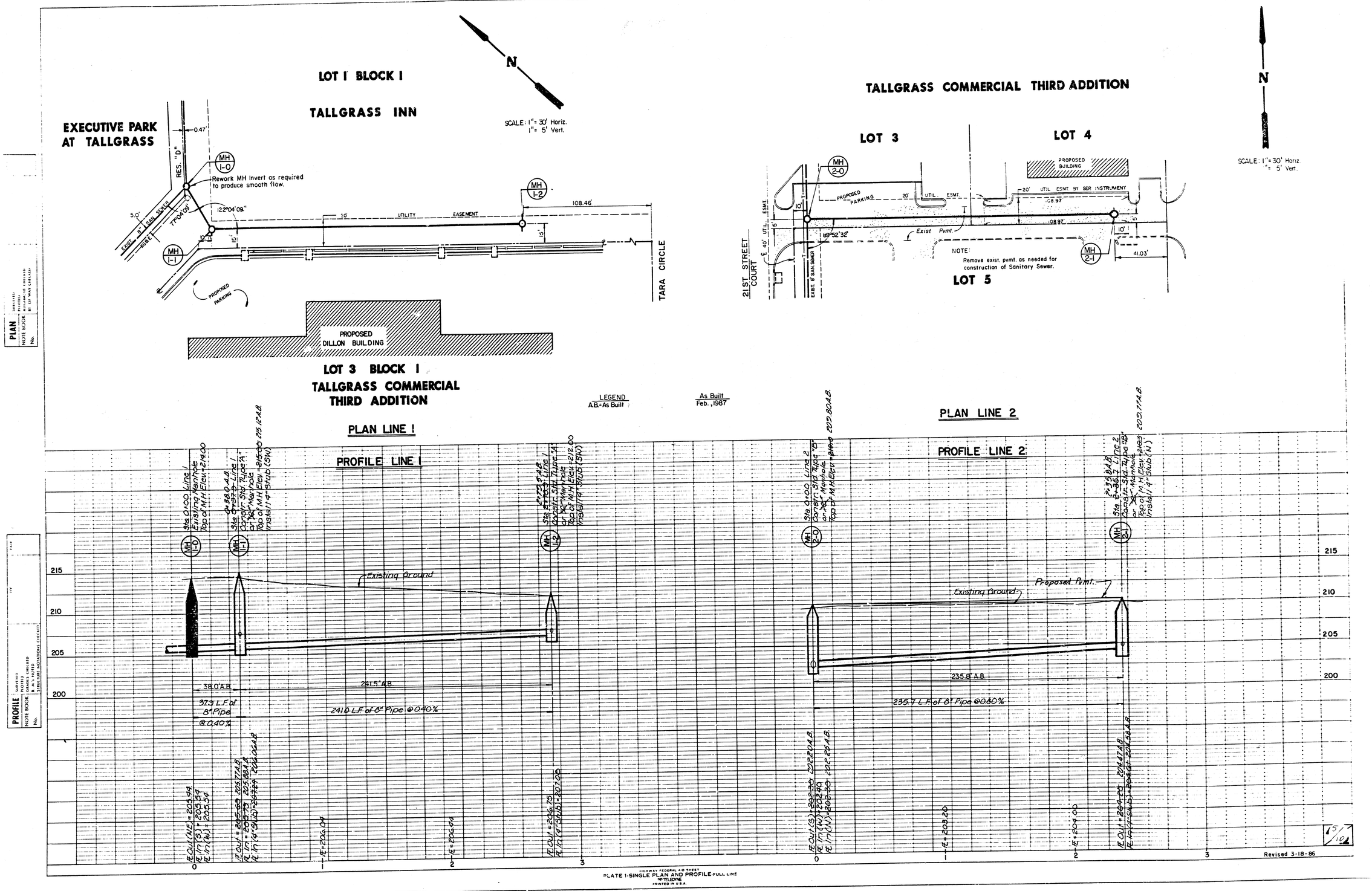

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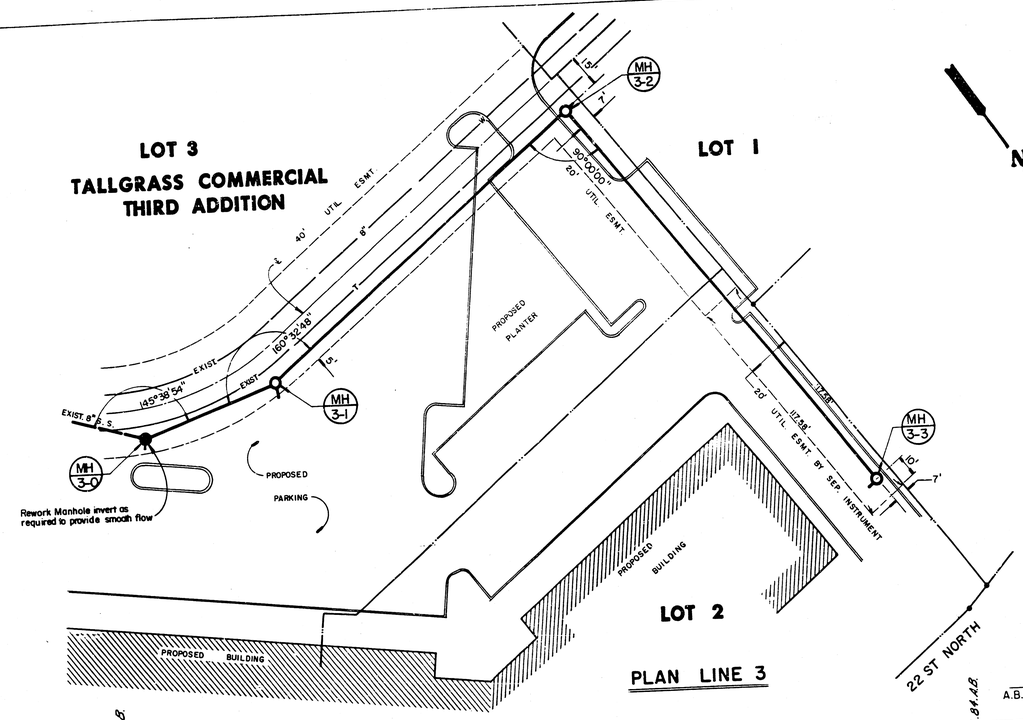

PLAN LINE 3

LEGEND
A.B. = As Built

As Built
Feb., 1987

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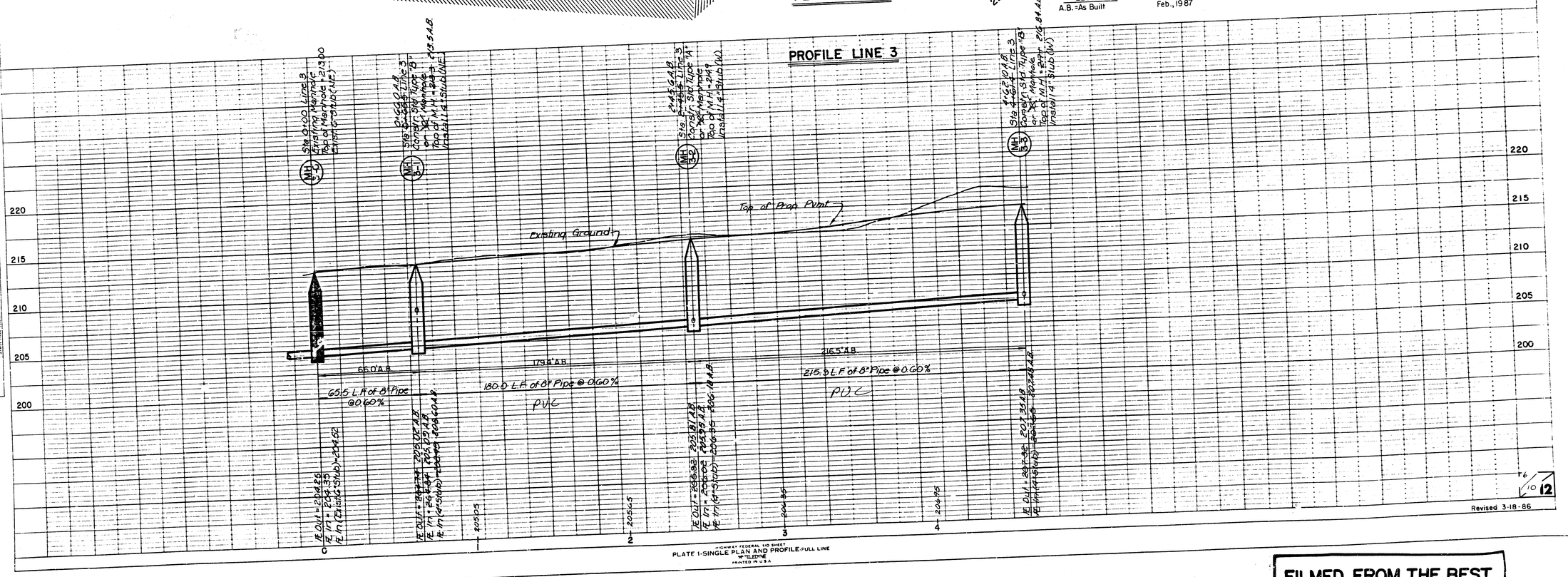
PLAN
SURVEYED
PLOTTED
NOTE BOOK CALCULATIONS CHECKED
BY CO WAY CHECKED
No.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK CALCULATIONS CHECKED
BY CO WAY CHECKED
No.



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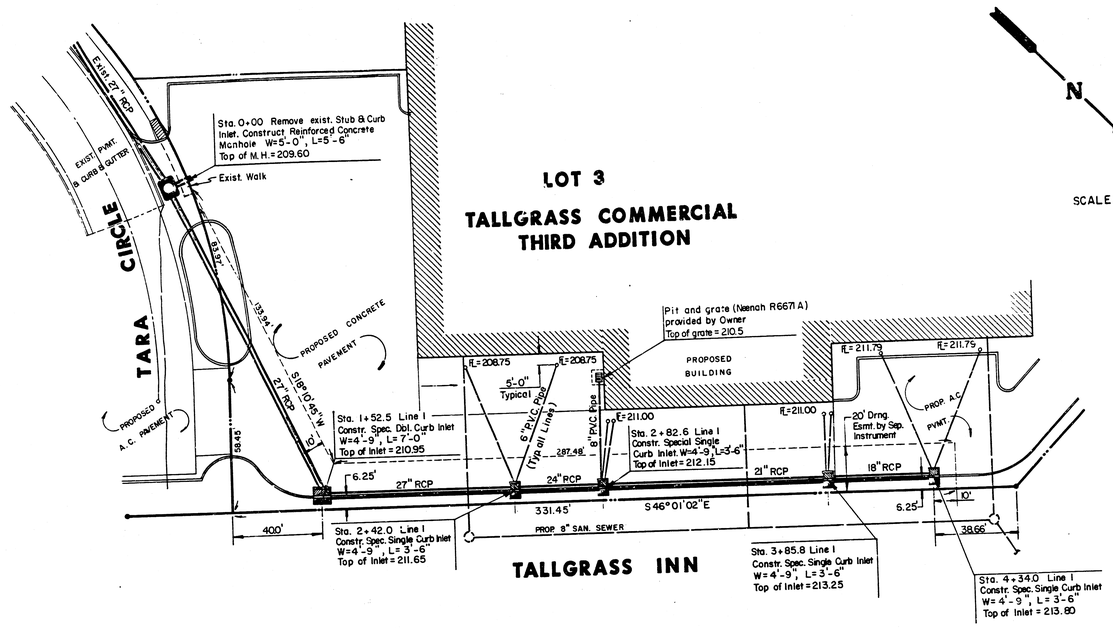

PLAN LINE I

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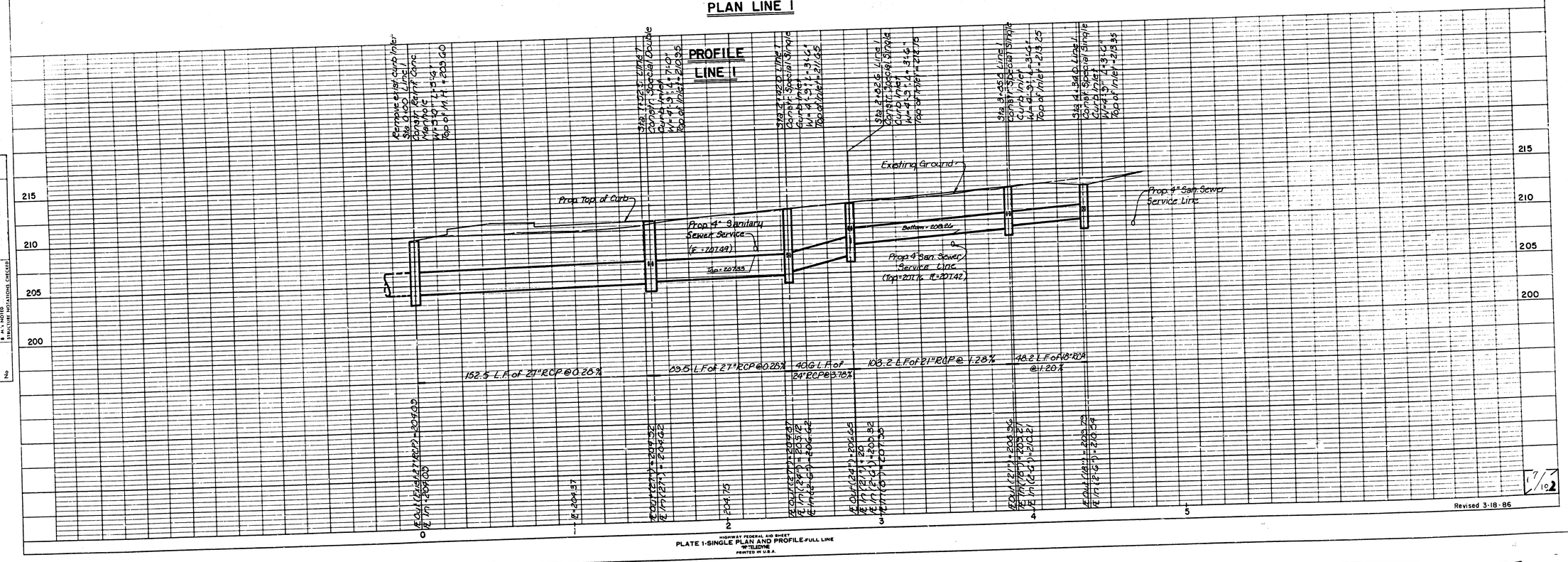

HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
"W"-BLEDVNE
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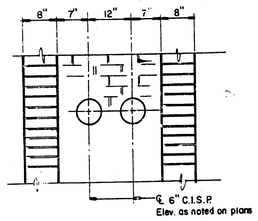
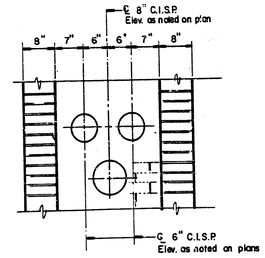


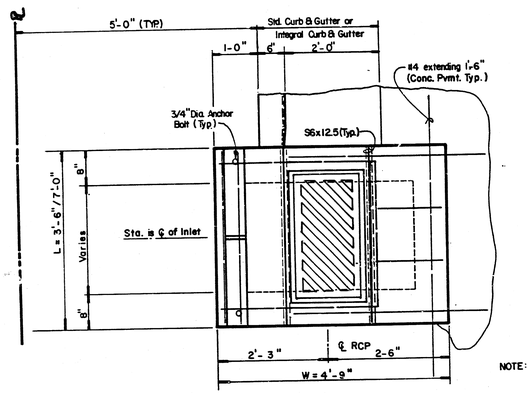
ELEVATION VIEW

Cast Iron Soil Pipe at Inlet (Typ.)



ELEVATION VIEW

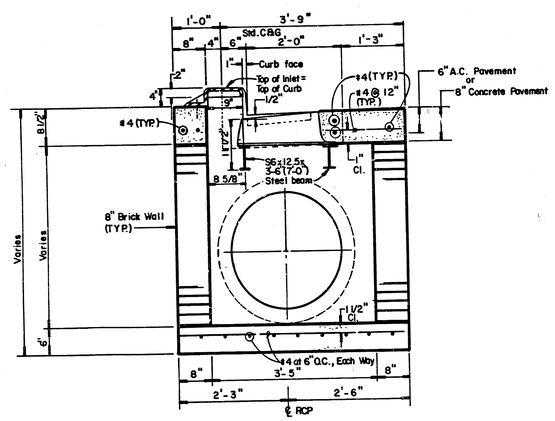
Cast Iron Soil Pipe at Inlet - Sta. 2+83.8



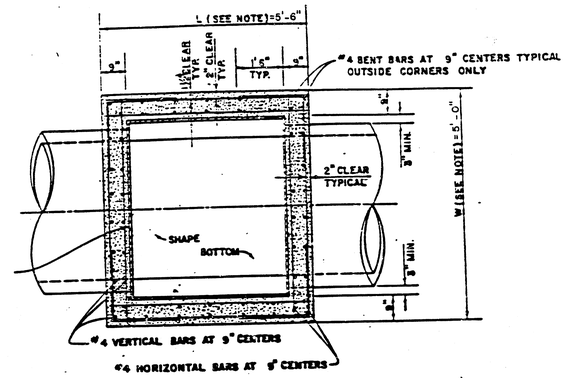
TOP VIEW

NOTE: Use Neenah R-3289-C Single Inlet Frame, Grate, and Curb Plate or Neenah R 3288-E Double Inlet Frame w/Two piece Grate and Curb Plate

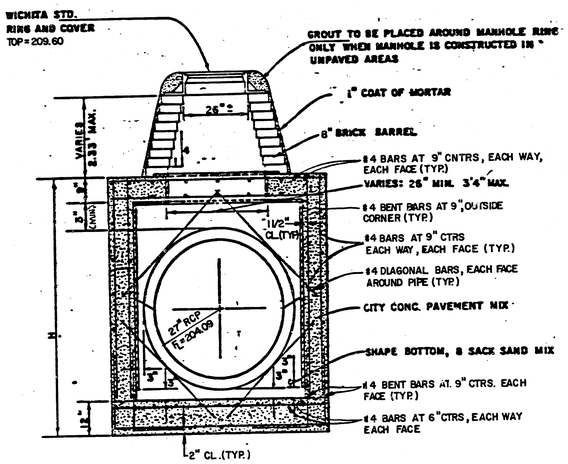
Grout pad under Curb Plate to ensure Top of Inlet Casting = Top of Curb



SPECIAL CURB INLET



TOP VIEW



REINFORCED CONCRETE MANHOLE

STA. 0+00 Line I

MKEC	DILLONS AT TALLGRASS STORM SEWER INLET DETAILS	Design FBN Drawn by DPR Checked by KHB Date 2-21-86 Job no.
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226 682-6561		Sheet 8/10 of 12

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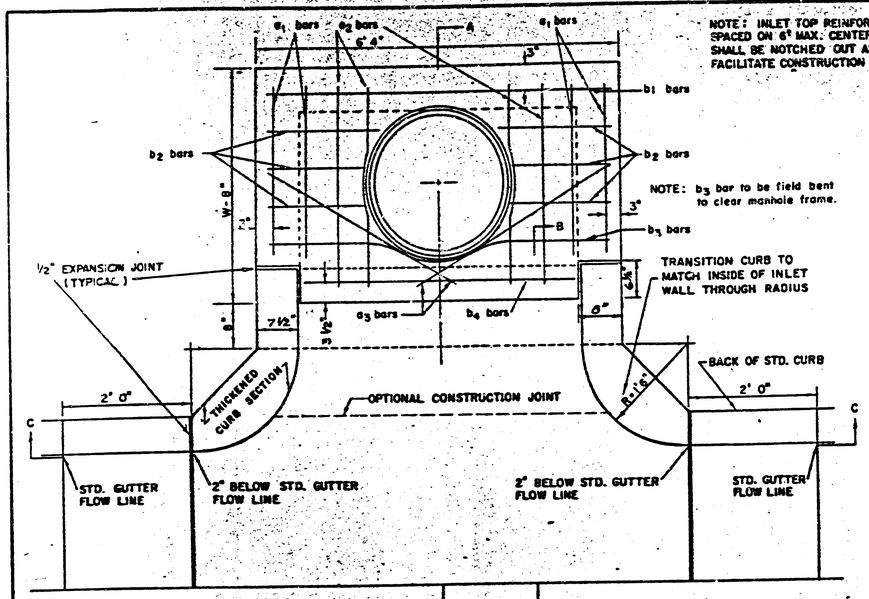
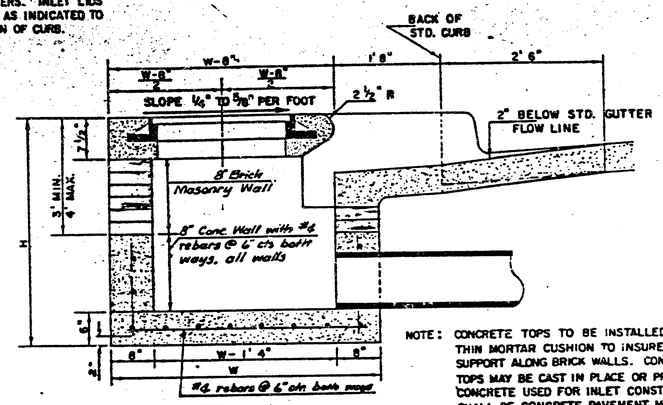


NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE: b_3 bar to be field bent to clear manhole frame.

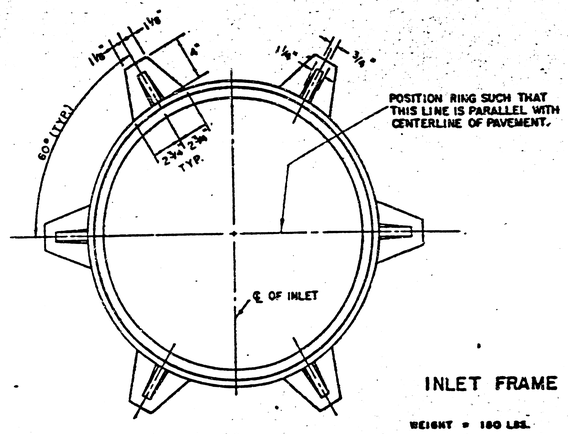
NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

PLAN



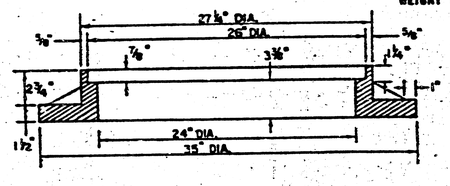
SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.



INLET FRAME

WEIGHT = 180 LBS.



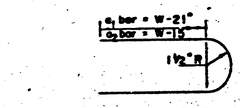
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'6" AND H = 7'0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



BENDING DIAGRAM

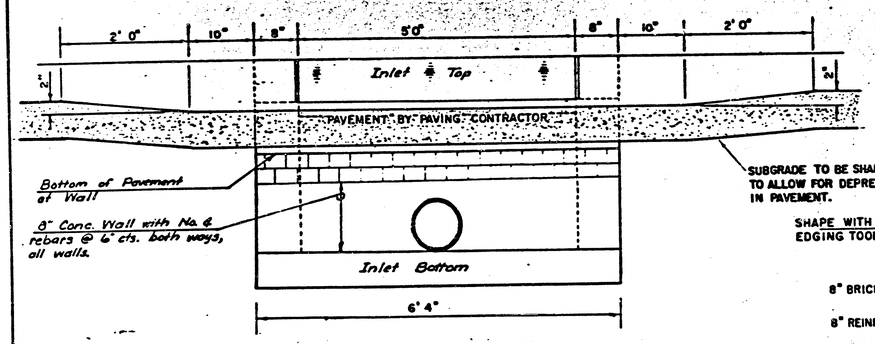
STEEL SCHEDULE

BAR	a_1	a_2	a_3*	b_1 W=4'4"	W=5'4"	W=6'4"	W=7'4"	W=8'4"	b_2	b_3	b_4	WT. LBS.
NUMBER	4	4	2	1	3	5	7	9	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH W=4'4"	5'7"	6'7"	4'0"	6'1"	–	–	–	–	1'9"	6'2"	4'8"	60±
LENGTH W=5'4"	7'7"	8'7"	5'0"	–	6'1"	–	–	–	1'9"	6'2"	4'8"	81±
LENGTH W=6'4"	9'7"	10'7"	6'0"	–	–	6'1"	–	–	1'9"	6'2"	4'8"	101±
LENGTH W=7'4"	11'7"	12'7"	7'0"	–	–	–	6'1"	–	1'9"	6'2"	4'8"	121±
LENGTH W=8'4"	13'7"	14'7"	8'0"	–	–	–	–	6'1"	1'9"	6'2"	4'8"	141±

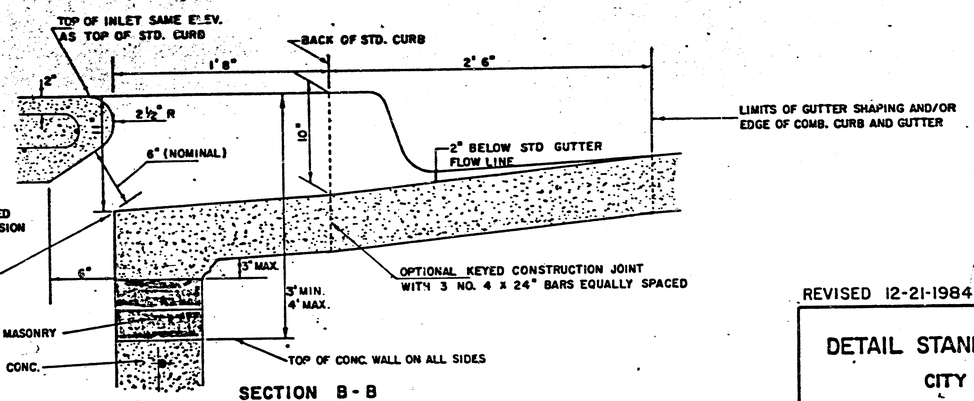
* NOTE: a_3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	5'8"± 6'4" ±7½"	21" & SMALLER	0.38±
5' 4"	6'8"± 6'4" ±7½"	24" & 30"	0.51±
6' 4"	5'8"± 6'4" ±7½"	36" & 42"	0.64±
7' 4"	6'8"± 6'4" ±7½"	48" & 54"	0.77±
8' 4"	7'8"± 6'4" ±7½"	60" & 66"	0.90±



SECTION C-C



SECTION B-B

REVISED 12-21-1984

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5' 0"

JUNE 1984

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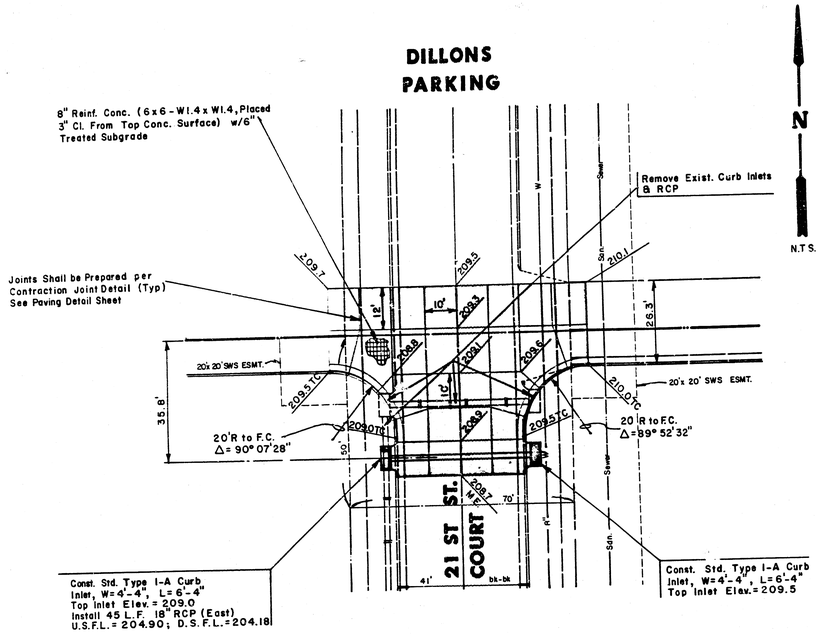
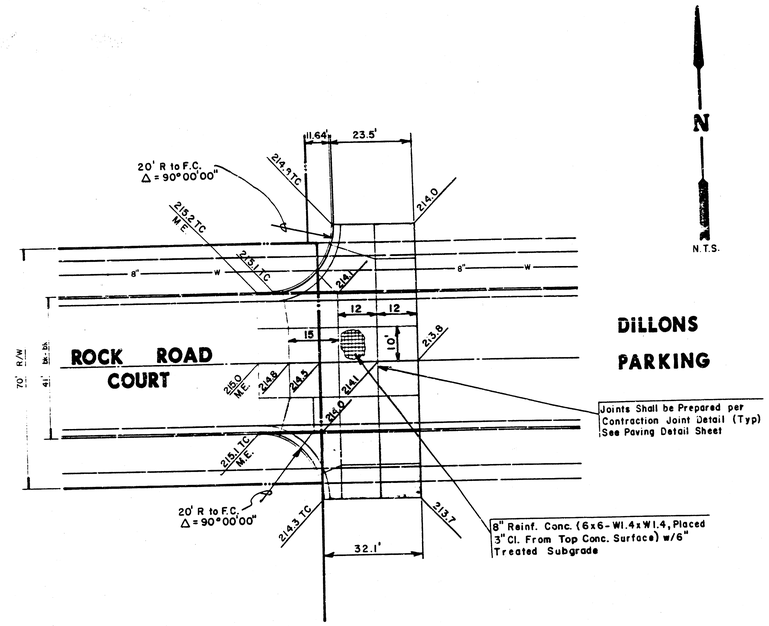
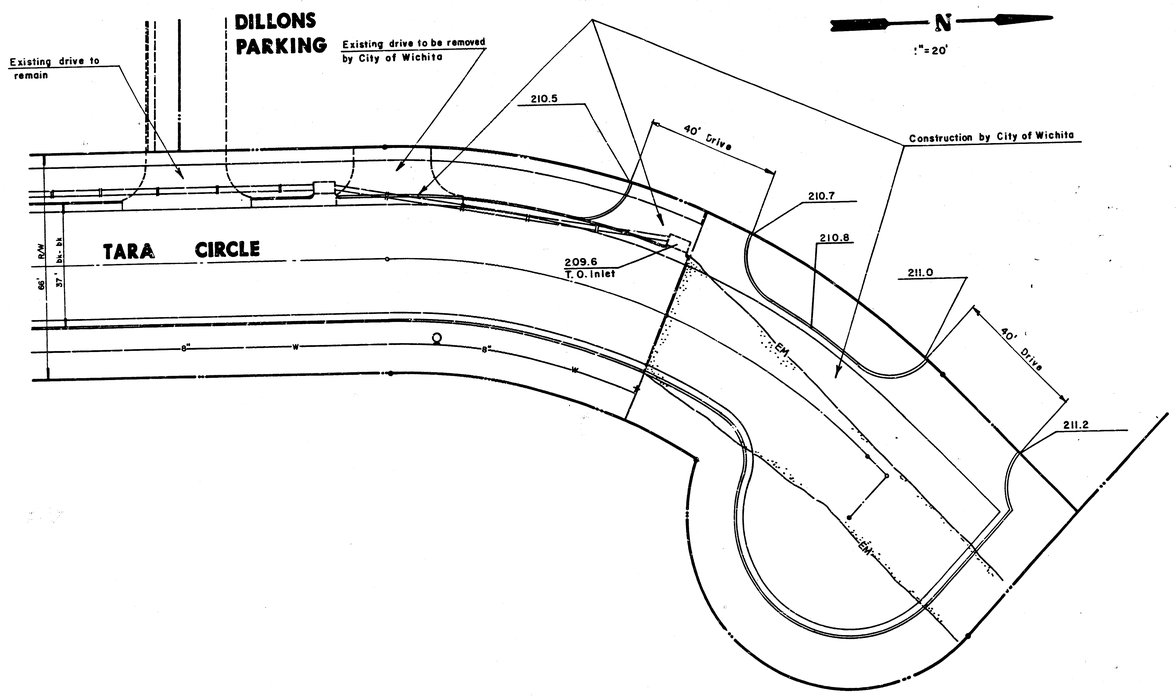




LEGEND

8" Reinforced Concrete Color Tinted Concrete (Color determined by Owner)

Note:
M.E.= Match Existing
214.3 TC = Top of Curb Elev.



DILLONS AT TALLGRASS

INTERSECTION DETAILS

Design KHB
Drawn by DPR
Checked by KHB
Date 2-21-86
Job no.

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING 800E
WICHITA, KANSAS 67226
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