SANITARY SEWERS 1 & 20 REHABILITATION BETWEEN DOUGLAS AND HARRY FROM THE BIG ARKANSAS RIVER TO WASHINGTON

PROJECT NUMBER 468-76-245-81642-000-000-001

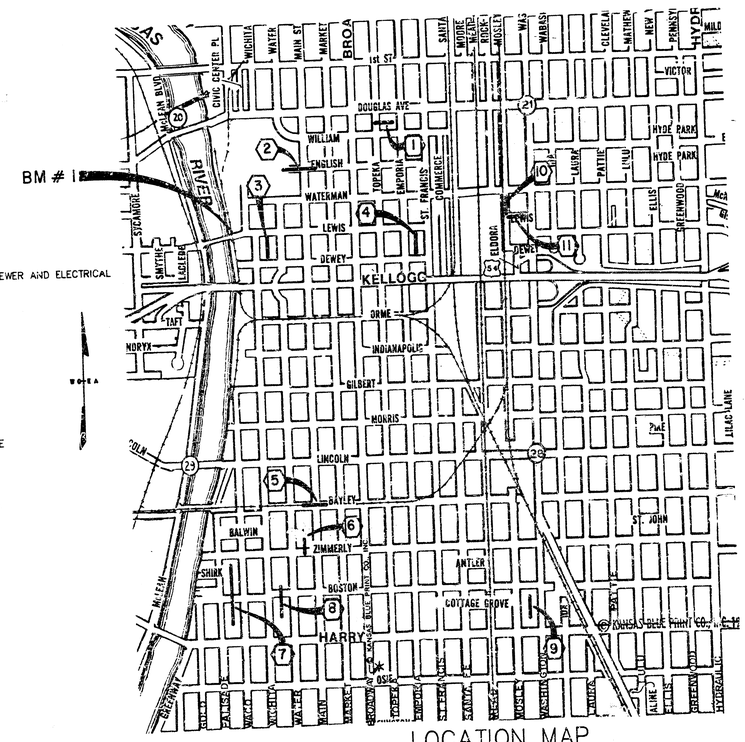
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
FEBRUARY, 1987

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LEGEND

EXISTING	DESCRIPTION
	BACK OF CURB, EDGE OF PAVEMENT
	FENCE
	CURB OR AREA STORM SEWER INLET
● FH	FIRE HYDRANT
	ARKLA GAS SERVICE
	KPL GAS SERVICE
● GM	GAS METER
● GV	GAS VALVE
	GRAVEL ROAD OR TRAVELED WAY
● LP	LIGHT POLE
● MH	MANHOLE – STORM SEWER, SANITARY SEWER AND ELECTRICAL
	POWER POLE
⊛ GLA	GAS LINE ANODE
-8" SAN. SEWER-	SANITARY SEWER
------8" SWS------	STORM SEWER
	STRUCTURES
	TELEPHONE POLE
	THIMBLE
	TREE
	SCRUB HEDGE
	COMBINED TELEPHONE AND POWER POLE
----WATER----	WATER LINE
● WM	WATER METER
● V	VALVE
C LP	COMBINED LIGHT AND TELEPHONE POLE
● GP	GUY POLE
⊛ CO	CLEANOUT
	TRAFFIC POLE
------UGT------	UNDERGROUND TELEPHONE LINE
	RAILROAD
RD	ROOF DRAIN
	4" STEEL POST
	PERMANENT EASEMENT
	PROPERTY LINE
●OH	OBSERVATION HOLE



LOCATION MAP

GENERAL NOTES

1. Interurban traffic generated outside the project area and local business or apartment traffic generated within the project area are to be carried through construction, as further promulgated in the Special Provisions.

2. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically show utility adjustment during construction by the utility company. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within 3 feet (3') of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.

4. 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.

5. The Engineer shall take field ties to all quarter section corners. The Contractor shall set a City survey monument in the required location where such quarter section corners fall within the limits of pavement construction. Survey monuments will be furnished by the City. The Engineer will accurately locate and install the iron at the quarter section corner. This work will not be paid for directly, but shall be considered subsidiary to the other pay items of work in the contract.

6. Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction of the project. The Contractor will be required to salvage all sprinkler heads and/or valves and give such material to their owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items of work.

7. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

8. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

GENERAL NOTES

9. Only active building sewer lines which connect actual buildings to the sewer system are to be reconnected to the new sewer construction. Building sewer lines and/or connections which have been abandoned are not to be reconnected to the new sewer construction. It will be the sole responsibility of the Contractor to ascertain which such building sewer lines and/or connections are active and which such sewers and/or connections have been abandoned. All work involved with building sewer line construction and/or building sewer connections shall conform to the applicable section of the Standard Specifications.

10. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.

11. The Contractor shall be responsible for preserving property irons. The Contractor will 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.

12. [illegible] Minimum limits of such pavement removal and replacement shall be one foot beyond the limits of the excavation made for the sewer or the structure, except when the lines of removal are within three (3) feet of an existing joint the limits of removal shall be extended to the existing joint. Removal and replacement of existing pavement shall conform to the applicable sections of the City of Wichita Standard Specifications.

13. The spot repairs denoted as Sites 10 and 11, as shown in the City of Wichita T.V. log, shall include a minimum of 10 L.F. of new pipe and related fittings and other required work and materials. This work shall be paid for as a lump sum item for each spot repair. The location and extent of this rehabilitation shall be confirmed by the Engineer.

AS-BUILT
2-87
RDL
Built per plan RDL

PROJECT BENCH MARK

BM# 1 CITY OF WICHITA BENCH MARK DISK IN SIDEWALK AT NORTHEAST CORNER OF BRIDGE AT THE ARKANSAS RIVER & LEWIS

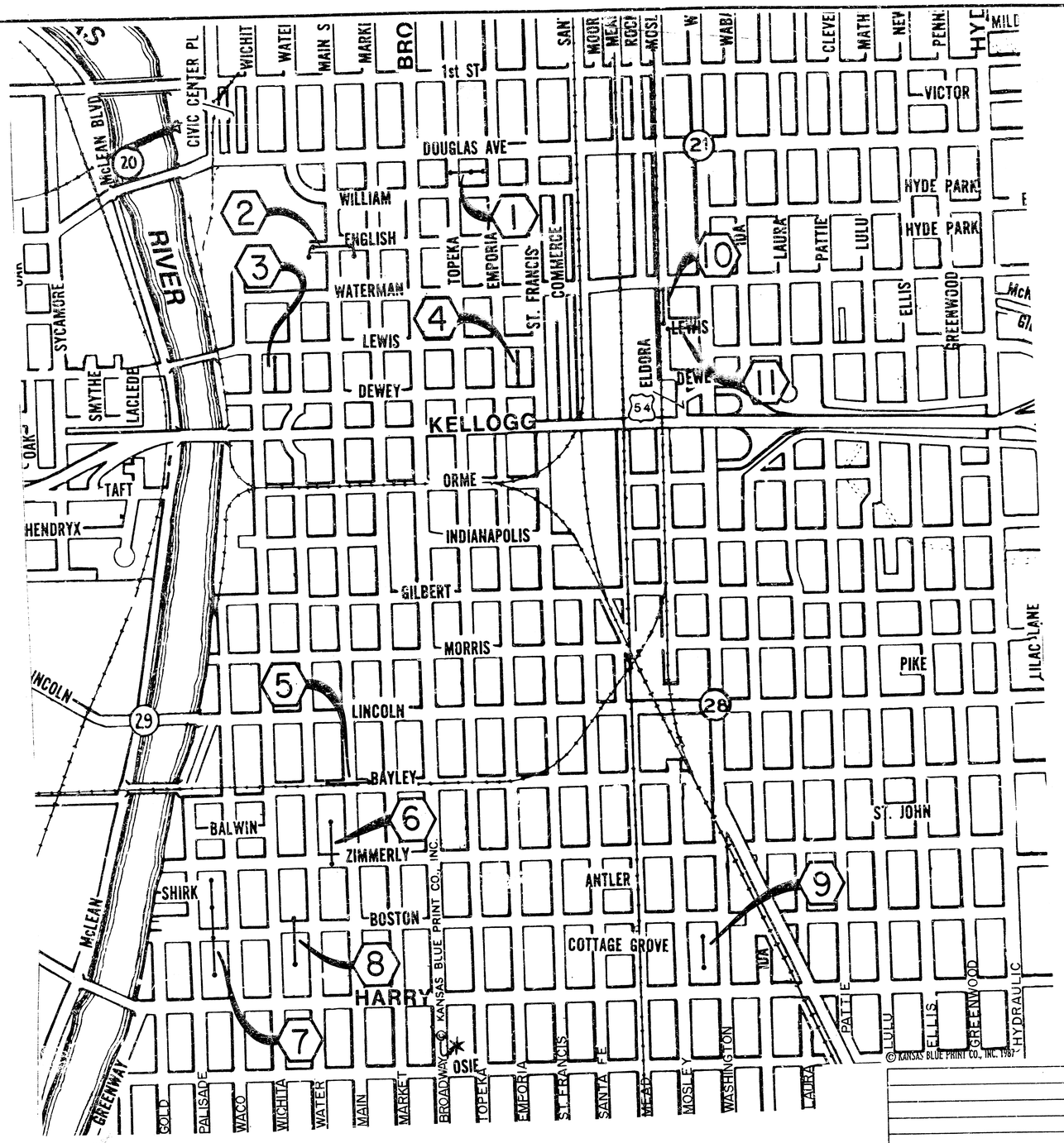
ELEV. 12.68

MICHAEL D. HARDING 9399 KANSAS PROFESSIONAL ENGINEER

WILSON & COMPANY ENGINEERS & ARCHITECTS
WICHITA KANSAS

CITY OF WICHITA PROJECT NUMBER
468-76-245-81642-000-000-001

1/5



Site No. 1. In the alley south of Douglas from the first manhole west of Emporia (MH7+46.6) to the manhole on the west side of Topeka (MH3+69.4).

Site No. 2. In English Street from the manhole on the south side of English, west of Market (MH4+20), to the manhole on the south side of English, west of Main (MH0+00).

[illegible] Dewey (MH6+15) to the first manhole [illegible] (MH4+30.0).

[illegible] (MH7+60.5). Also a spot repair 5' ft. south of MH 7+60.5.

Site No. 5. In Bayley from the first manhole east of Main Street (MH3+69) to the first manhole west of Main Street (MH0+32).

Site No. 6. In the alley west of Main Street from the first manhole north of Zimmerly (MH16+24) to the manhole in the south parking of Zimmerly (MH13+27).

[illegible] Zimmerly (MH12+01.5) to the second manhole [illegible] (MH3+60).

[illegible] Boston (MH10+63) to the first manhole [illegible] (MH7+49).

Site No. 9. In the easement west of Washington from the first manhole south of Boston (MH4+40.5) to the second manhole south of Boston (MH2+19).

Site No. 10. Spot repairs on the line in Mosley 175 ft. south of the manhole in the south parking of Waterman (MH7+13), and 268 ft. south of said manhole.

Site No. 11. Spot repairs on the line in Lewis Street 77 ft. east of the manhole in Mosley (MH3+28) and 179 ft. east of said manhole.

CITY OF WICHITA PROJECT NO. 468-76-243-81642-000-000-001

WICHITA, KANSAS

SANITARY SEWERS 1&20 REHABILITATION

KEY MAP

REVISION	DATE	BY

DESIGN | DRAWN MEK

MICHAEL D. HARDING LICENSED 9399 KANSAS PROFESSIONAL ENGINEER

WILSON & COMPANY ENGINEERS & ARCHITECTS

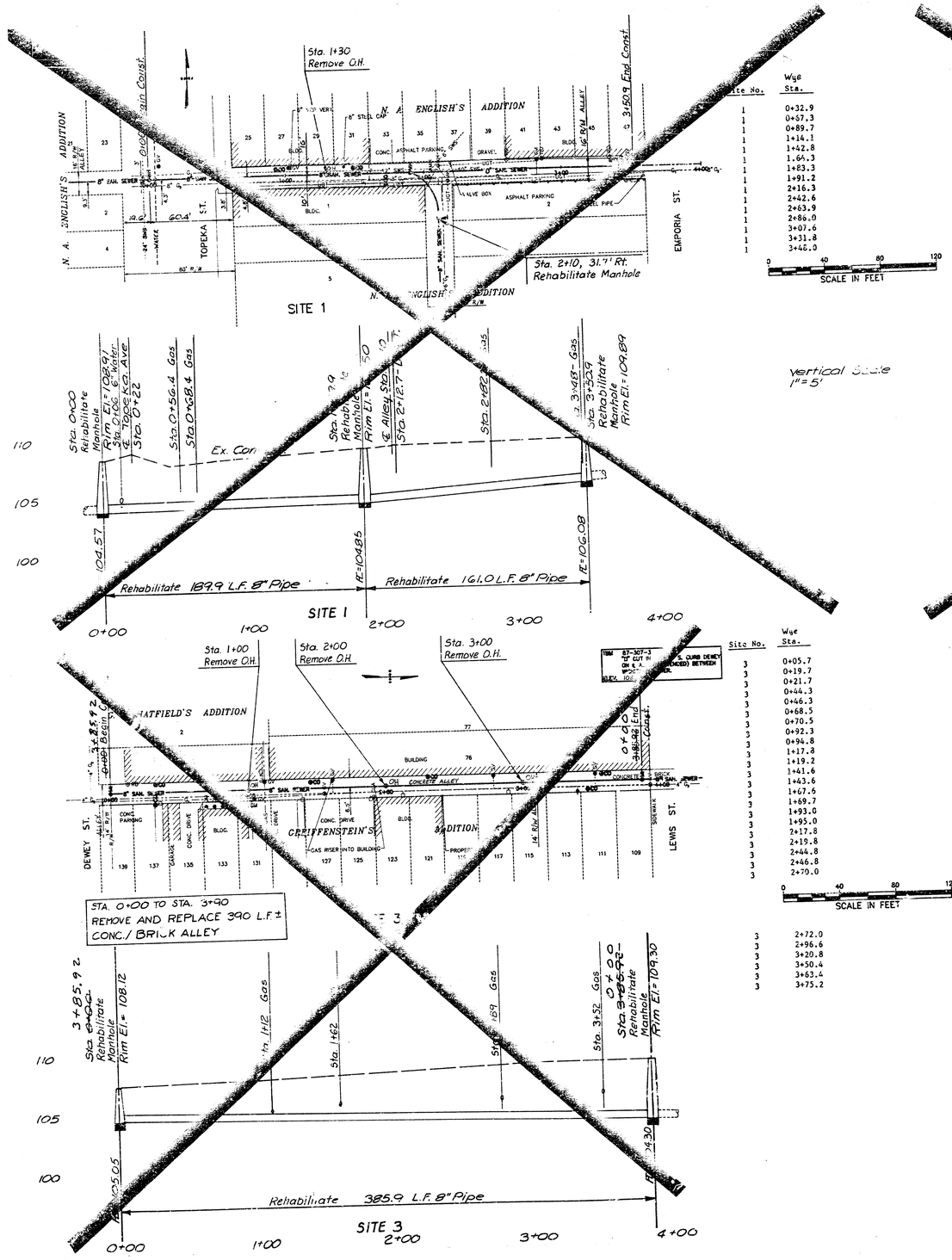
WICHITA - KANSAS

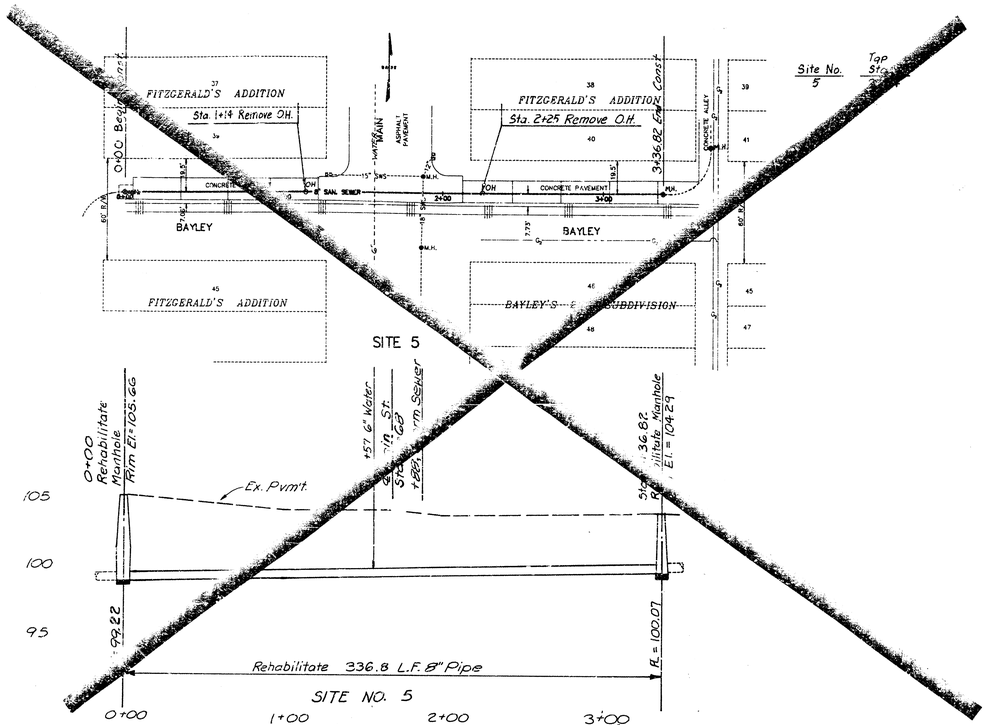
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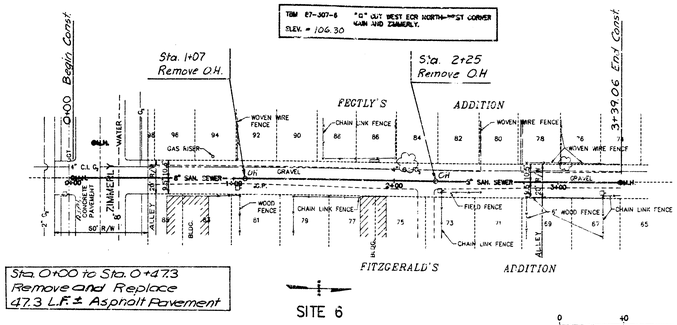
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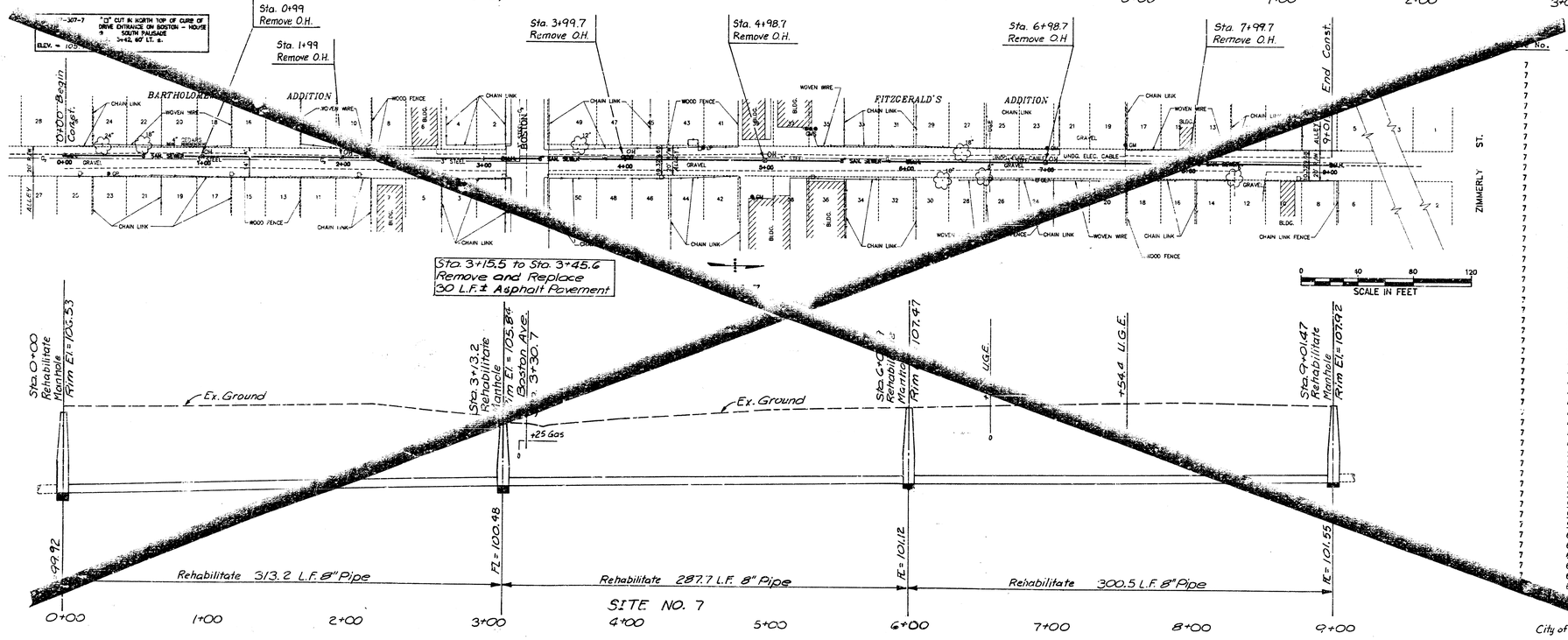
2/5


Sta. 1+30
Remove O.H.
Sta. 2+10, 31.7' Rt.
Rehabilitate Manhole
N. A. ENGLISH'S ADDITION
ENGLISH'S ADDITION
TOPEKA ST.
EMPORIA ST.
8" SAN. SEWER
8" STEEL CASING
ASPHALT PARKING
CONC. ASPHALT PARKING
GRAVEL
BLDG.
SCALE IN FEET
0 40 80 120
SITE 1
Vertical Scale
1"=5'
Sta. 0+00
Rehabilitate
Manhole
Rim El.= 108.89
Sta. 0+56.4 Gas
Sta. 0+68.4 Gas
Ex. Conc.
Sta. 2+12.7
Sta. 2+82
Sta. 3+48 Gas
Sta. 3+39
Rehabilitate
Manhole
Rim El.= 109.89
104.57
IE=104.85
IE=106.08
Rehabilitate 189.9 L.F. 8" Pipe
Rehabilitate 161.0 L.F. 8" Pipe
0+00
1+00
2+00
3+00
4+00
110
105
100
Sta. 1+00
Remove O.H.
Sta. 2+00
Remove O.H.
Sta. 3+00
Remove O.H.
HATFIELD'S ADDITION
GREIFFENSTEIN'S ADDITION
DEWEY ST.
LEWIS ST.
CONC. PARKING
CONC. DRIVE
GARAGE
BLDG.
CAS RISER INTO BUILDING
CONCRETE ALLEY
8" SAN. SEWER
STA. 0+00 TO STA. 3+90
REMOVE AND REPLACE 390 L.F.±
CONC./ BRICK ALLEY
Sta. 3+85.92
Sta. 0+00
Rehabilitate
Manhole
Rim El.= 108.12
Sta. 1+12 Gas
Sta. 1+62
Sta. 1+89 Gas
Sta. 3+52 Gas
Sta. 3+85.92
Sta. 0+00
Rehabilitate
Manhole
Rim El.= 109.30
105.05
IE=105.30
Rehabilitate 385.9 L.F. 8" Pipe
SITE 3
Site No.
Wye Sta.
3 0+05.7
3 0+19.7
3 0+21.7
3 0+44.3
3 0+46.3
3 0+68.5
3 0+70.5
3 0+92.3
3 0+94.8
3 1+17.8
3 1+19.2
3 1+41.6
3 1+43.6
3 1+67.6
3 1+69.7
3 1+93.0
3 1+95.0
3 2+17.8
3 2+19.8
3 2+44.8
3 2+46.8
3 2+70.0
3 2+72.0
3 2+96.6
3 3+20.8
3 3+50.4
3 3+63.4
3 3+75.2
Sta. 1+58
Remove O.H.
Sta. 2+62
Remove O.H.
0+00 Begin Construction
4+20.4 End Construction
ENGLISH ST.
GREIFFENSTEIN'S ADDITION
8" WATER
8" SAN. SEWER
SURVEY BASELINE
CONCRETE
SIDEWALK
CURB & GUTTER
ASPHALT
THIMBLE
MAIN
SITE 2
Sta. 0+00
Rehabilitate
Manhole
Rim El.= 111.28
Sta. 0+47
Rehabilitate
Manhole
Rim El.= 110.92
Ex. Pvm't
Sta. 3+73.3
Rehabilitate
Manhole
Rim El.= 110.83
Sta. 4+20.4
Rehabilitate
Manhole
Rim El.= 110.38
IE=103.64
IE=104.10
IE=105.11
Rehab. 47.0 L.F. 8" Pipe
Rehabilitate 326.3 L.F. 8" Pipe
Rehab. 2[illegible] L.F. 8" Pipe
0+00
1+00
2+00
3+00
4+00
110
105
100
Sta. 1+33
Remove O.H.
Sta. 2+62
Remove O.H.
N. A. ENGLISH'S FIFTH ADDITION
ENGLISH'S FIFTH ADDITION
DEWEY ST.
LEWIS ST.
CONC.
8" SAN. SEWER
LOADING DOCK
BUILDING
SITE 4
Sta. 0+00
Rehabilitate
Manhole
Rim El.= 106.29
Sta. 0+47
Gas
Sta. 1+57
Sta. 3+80.1
Rehabilitate
Manhole
Rim El.= 106.64
Ex. Ground
IE=103.35
IE=103.64
Rehabilitate 380.1 L.F. 8" Pipe
0+00
1+00
2+00
3+00
4+00
110
105
100
Site No.
Wye Sta.
4 0+24.9
4 0+26.9
4 0+49.3
4 0+51.3
4 0+75.5
4 0+77.5
4 1+00.0
4 1+02.0
4 1+24.5
4 1+26.5
4 1+48.5
4 1+50.5
4 1+73.8
4 1+75.8
4 1+98.0
4 2+00.0
4 2+24.7
4 2+26.7
4 2+49.0
4 2+51.0
4 2+75.5
4 2+90.6
4 2+98.0
4 3+00.0
4 3+23.0
4 3+25.0
4 3+47.3
4 3+49.3
4 3+74.2
4 3+76.2
SCALE IN FEET
0 40 80 120
MICHAEL D. HARDIN
LICENSED
9389
KANSAS
PROFESSIONAL ENGINEER
Sanitary Sewers 1&20
Rehabilitation
City of Wichita Project No.
468-76-245-81642-000-000-001
87 307
3 3/5
5



Site No.	Wye Sta.
6	0+17
6	0+21
6	0+34
6	0+36
6	0+56
6	0+64
6	0+83
6	0+94
6	1+06
6	1+24
6	1+33
6	1+54
6	1+58
6	1+82
6	1+84
6	2+09
6	2+12
6	2+34
6	2+42
6	2+59
6	2+72
6	2+84
6	3+02
6	3+09
6	3+32





Site No.	Wye Sta.	Site No.	Wye Sta.
7	0+10	7	6+92
7	0+12.5	7	6+94.5
7	0+36	7	7+19
7	0+38.5	7	7+21.5
7	0+61.5	7	7+42
7	0+64	7	7+44.5
7	0+87	7	7+67.5
7	0+89.5	7	7+70
7	1+12	7	7+93
7	1+14.5	7	7+95.5
7	1+37.5	7	8+18.5
7	1+40	7	8+21
7	1+63.5	7	8+43.5
7	1+66	7	8+46
7	1+86.5	7	8+67
7	1+89	7	8+69.5
7	2+11.5	7	8+94.5
7	2+14	7	8+97
7	2+37.5		
7	2+40		
7	2+60		
7	2+62.5		
7	2+83		
7	2+85.5		
7	2+95		
7	2+97.5		
7	3+57		
7	3+59.5		
7	3+86		
7	3+88.5		
7	4+12.5		
7	4+15		
7	4+38		
7	4+40.5		
7	4+64		
7	4+66.5		
7	4+89.5		
7	4+92		
7	5+14.5		
7	5+17		
7	5+40.5		
7	5+43		
7	5+65		
7	5+67.5		
7	5+90.5		
7	5+93		
7	6+15.5		
7	6+18		
7	6+41		
7	6+43.5		
7	6+87		
7	6+89.5		

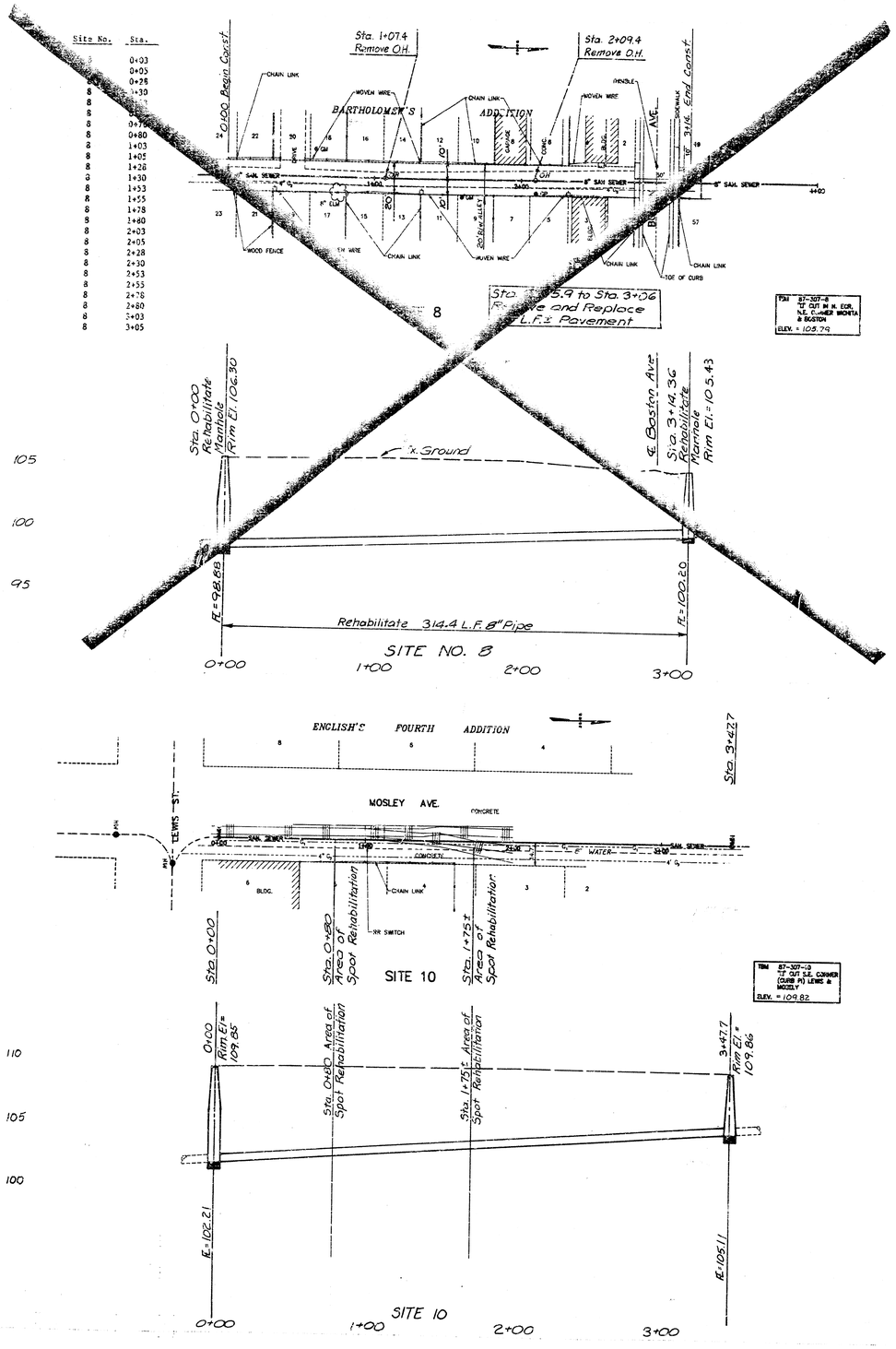
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SCALE IN FEET

MICHAEL D. H. KUNS LICENSED 9399 KANSAS PROFESSIONAL ENGINEER

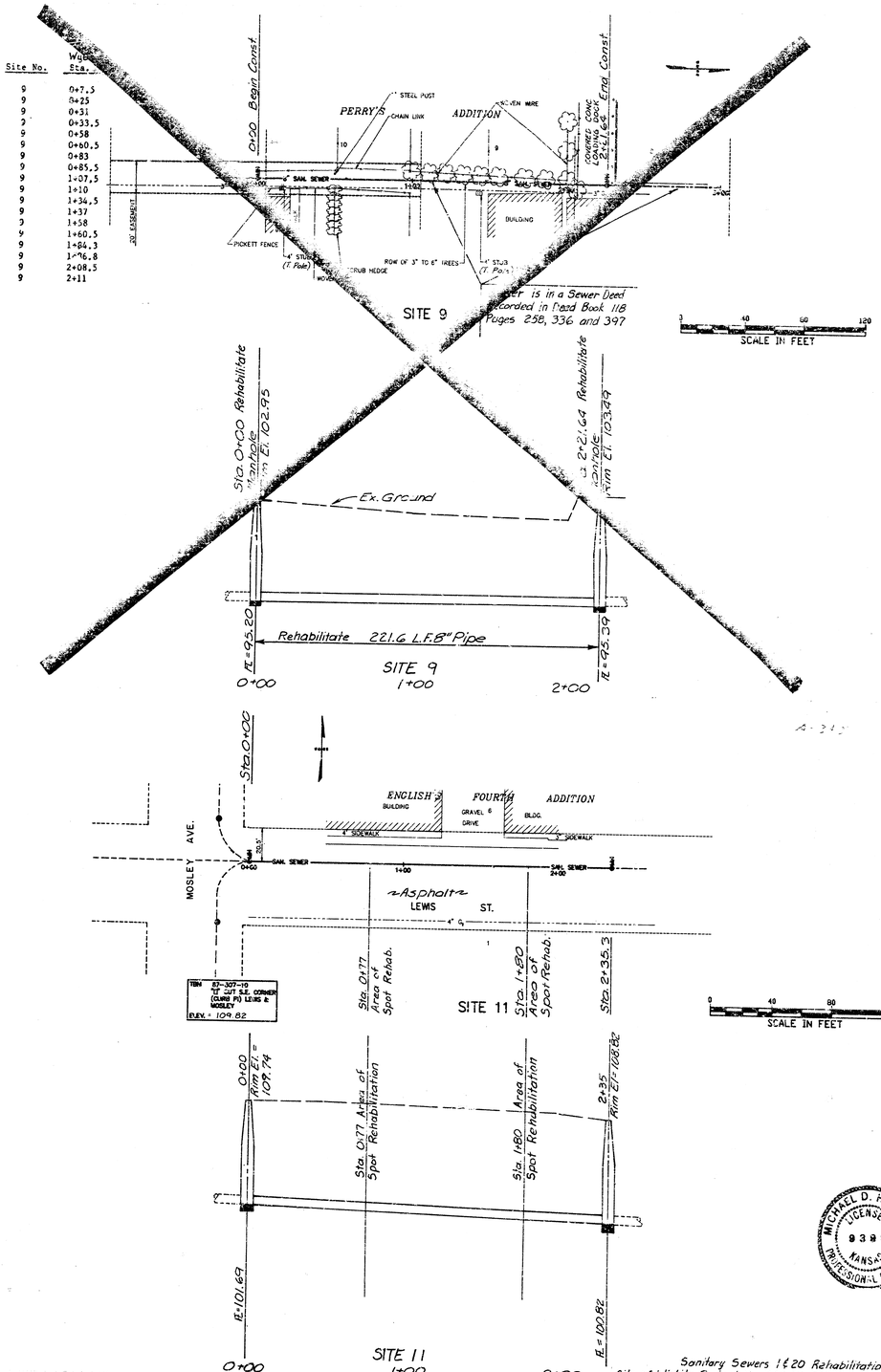
Sewers 1 & 20 Rehabilitation
City of Wichita Project No. 468-76-245-81642-000-000-02

87 307 5 4 4/5

Site No.	Sta.
8	0+03
8	0+05
8	0+26
8	0+30
8	[illegible]
8	[illegible]
8	0+78
8	0+80
8	1+03
8	1+05
8	1+28
8	1+30
8	1+53
8	1+55
8	1+78
8	1+80
8	2+03
8	2+05
8	2+28
8	2+30
8	2+53
8	2+55
8	2+78
8	2+80
8	3+03
8	3+05



Site No.	Sta.
9	0+7.5
9	0+25
9	0+31
9	0+33.5
9	0+58
9	0+60.5
9	0+83
9	0+85.5
9	1+07.5
9	1+10
9	1+34.5
9	1+37
9	1+58
9	1+60.5
9	1+84.3
9	1+96.8
9	2+08.5
9	2+11



SCALE IN FEET

MICHAEL D. HARDING LICENSED 9398 KANSAS PROFESSIONAL ENGINEER

Sanitary Sewers 1&20 Rehabilitation
City of Wichita Project No. 468-76-245-81642-000-000-001

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5 5/5