

GENERAL NOTES

Utility service lines, poles, valve boxes, manholes, and all others 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 identify a utility to be adjusted by its owner during construction. 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.

A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of 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, except when such saw cuts are within three (3) feet of an existing joint the limits of removal shall be extended 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.

Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on site to be provided by the Contractor. These sites shall be approved by the Engineer as to liability, 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 permitting regulations. Any material buried or stockpiled beyond approved of Engineers construction limits would require additional archeological investigations unless buried in a previously approved borrow location.

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.

The Contractor shall be responsible for preserving property lines. The Contractor will be required to re-establish any property lines which are damaged or destroyed by his construction operations. Such lines shall be re-established by a licensed land surveyor in accordance with state laws.

Contractor will be required to provide a minimum advance notice twenty-four (24) hours to utility companies prior to starting any work as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

Cablevision	262-4270 or 263-2001
Kansas Gas Service	632-3168
K.G.&E. Electric	383-8600
Peoples Natural Gas Company	942-8350 or 263-8161
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Maintenance	268-4071

Mailboxes within the limits of the project shall be removed and replaced by the Contractor as approved by the Engineer. Contractor will be required to make satisfactory provisions for mail delivery to properties affected by this project during its construction.

The Water Department shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, water valve boxes or fire hydrants damaged during construction shall be repaired by the Contractor at his own expense. Water valves, valve boxes, fire hydrants and water meters shall be adjusted by the Water Department.

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

Removal of existing concrete parking lot pavements, asphalt parking lot pavements, asphalt driveway pavement and/or asphalt sidewalk pavements will be paid for as square feet of work and drive removed.

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 for work.

STREET IMPROVEMENTS

19TH STREET NORTH

E.L. OF WABASH TO W.L. OF OHIO

PROJECT NO. 472-83082

INDEX CODE 765574

BENCH MARKS

BM #1 - 1" in Top of Curb, 1.5' S. of Curb Return, S.E. Corner of 19th & Wabash.

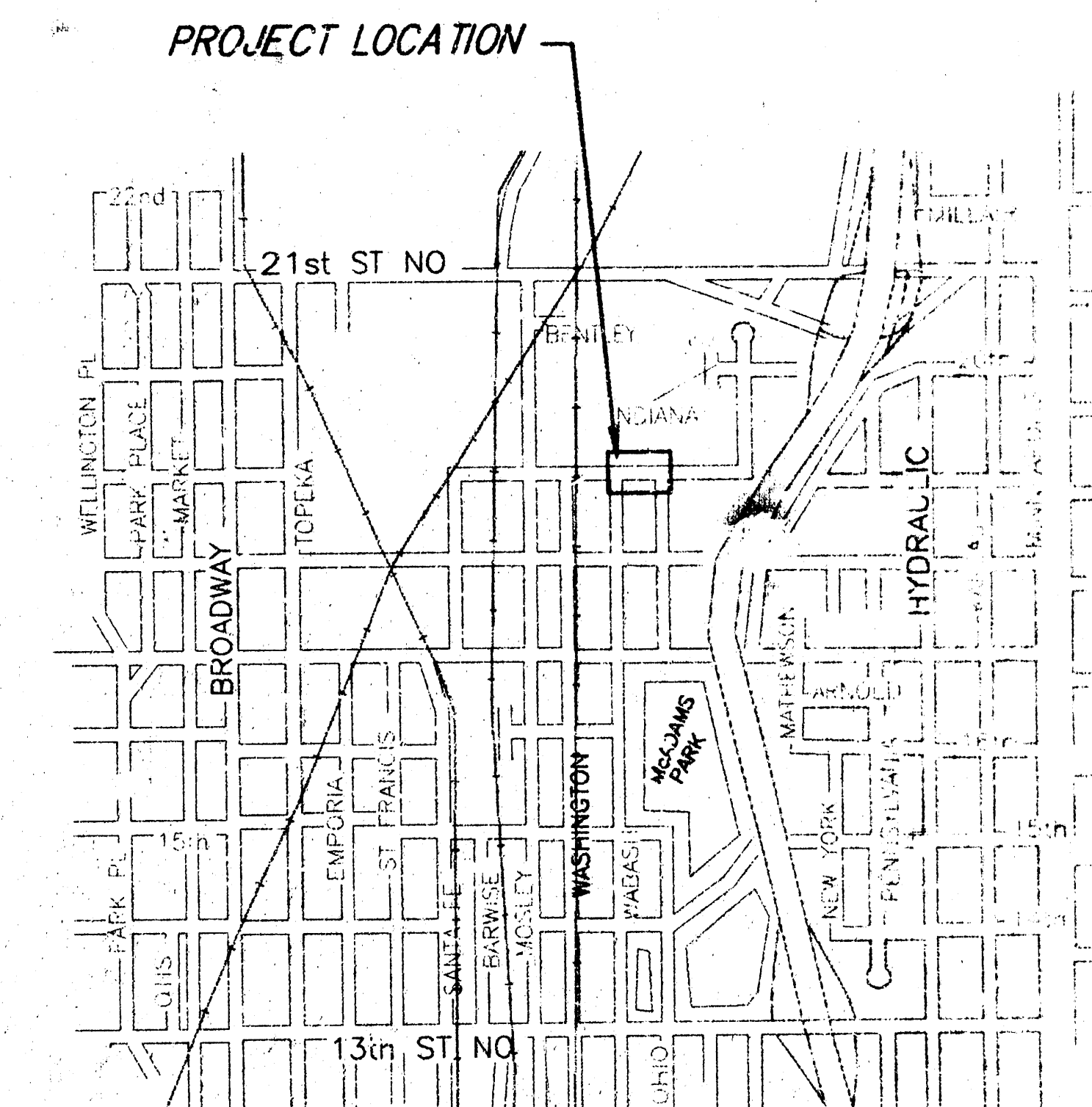
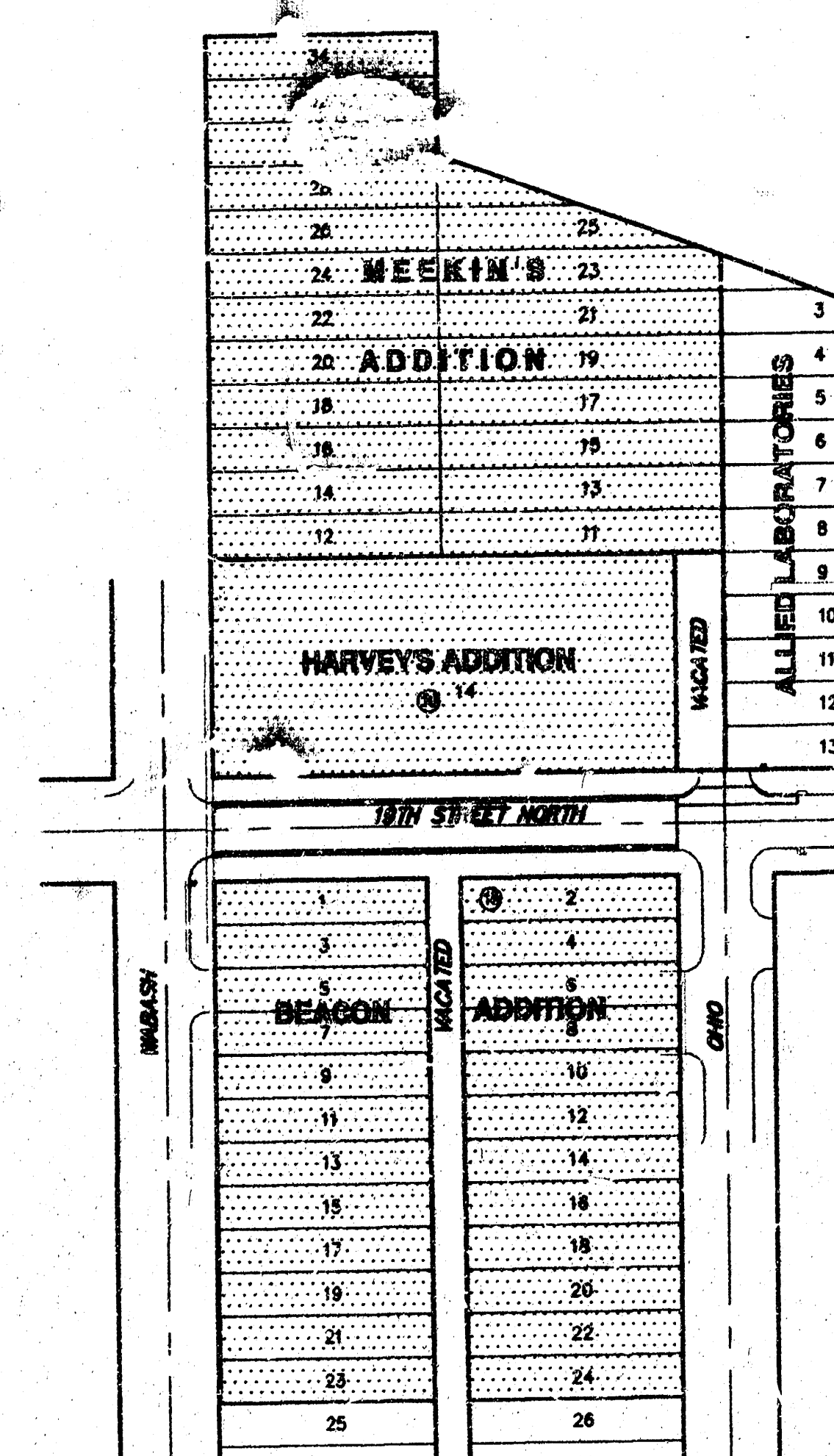
Elev. 118.31 (C.O.W.) 1305.71 (M.S.L.)

BM #2 - C.O.W. Disc on Handrail, S.E. Corner of RCB, East of Ohio on 19th St. North.

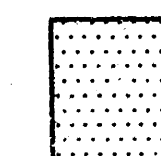
Elev. 124.47 (C.O.W.) 1311.90 (M.S.L.)

INDEX OF SHEETS

1. TITLE SHEET
2. 31' PAVEMENT SECTION
3. 19TH STREET PLAN
4. CROSS SECTIONS

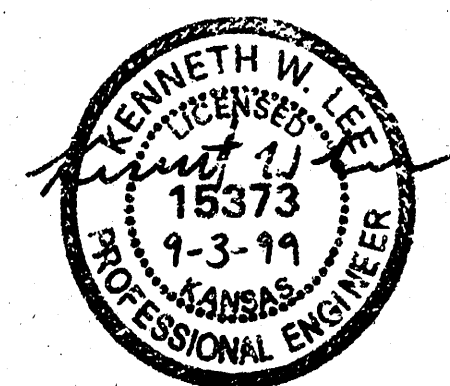


VICINITY MAP



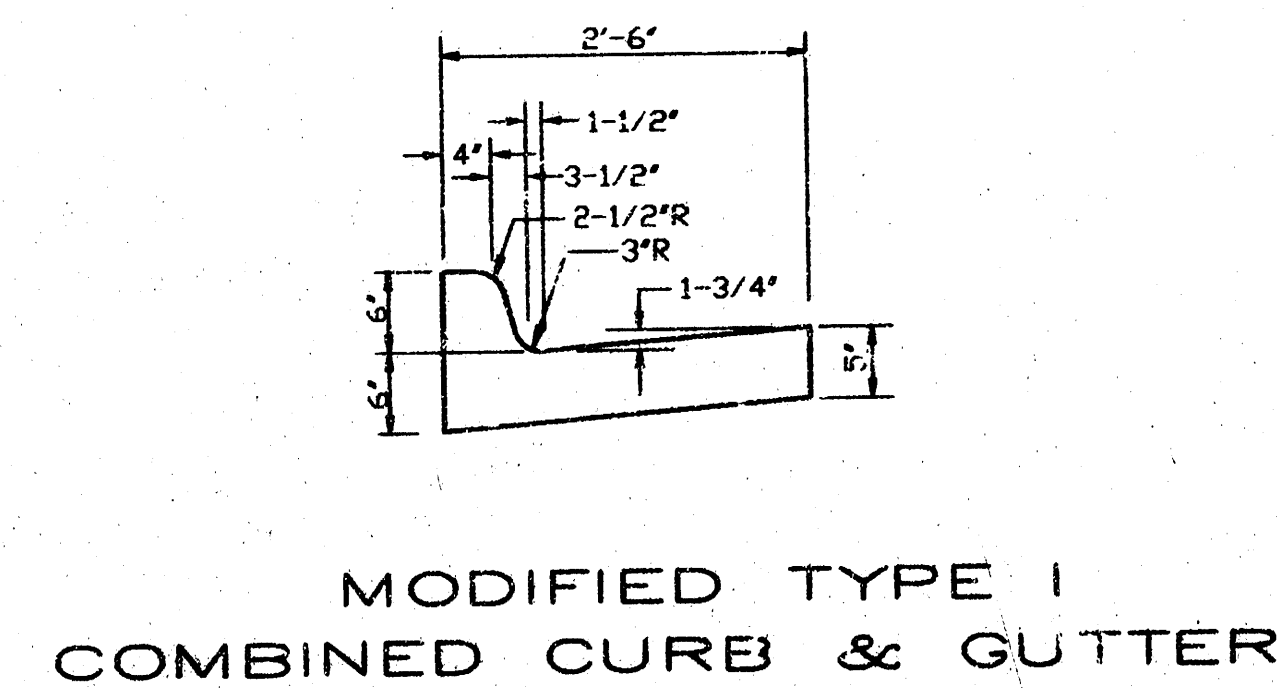
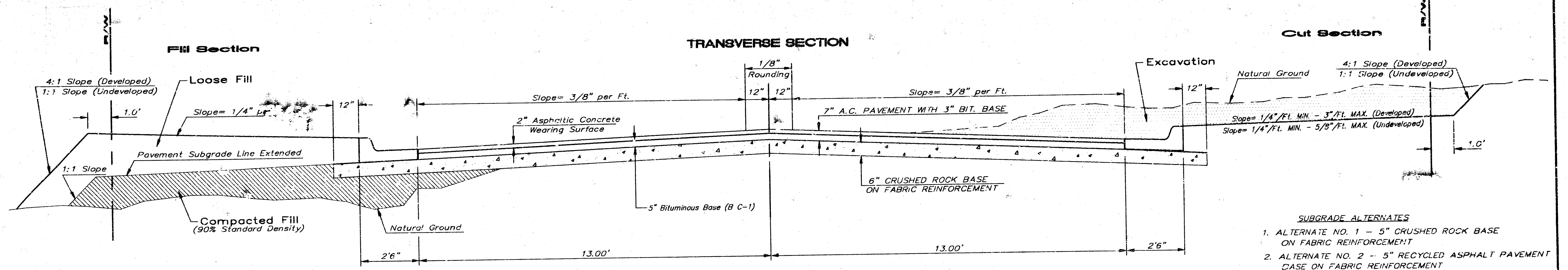
IMPROVEMENT DISTRICT

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBACK, P.E. - CITY ENGINEER

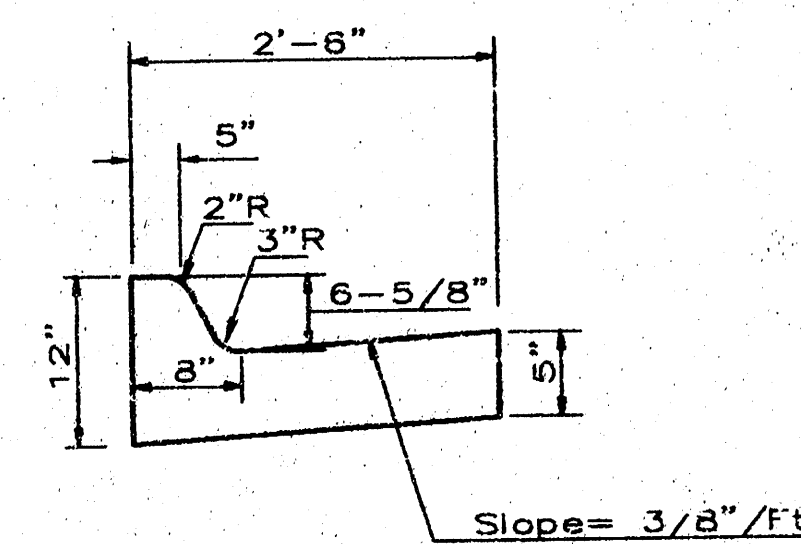


SRB 924 NORTH MAIN 315-264-8008
 WICHITA, KANSAS 67203 FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
 ENGINEERING & SURVEYING

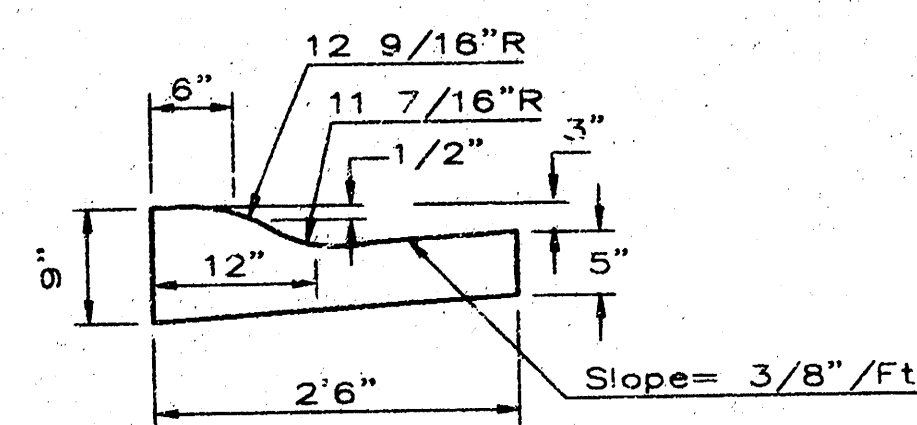
TYPICAL 31' B-B PAVEMENT DETAILS



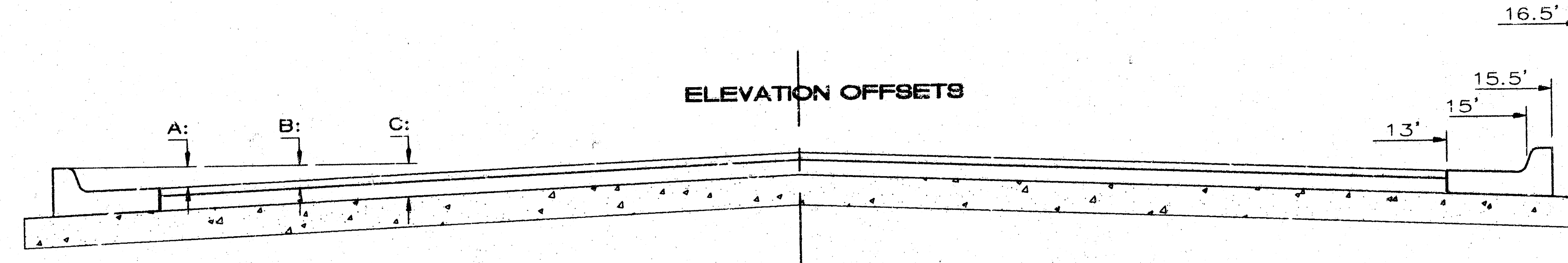
MODIFIED TYPE I
COMBINED CURB & GUTTER



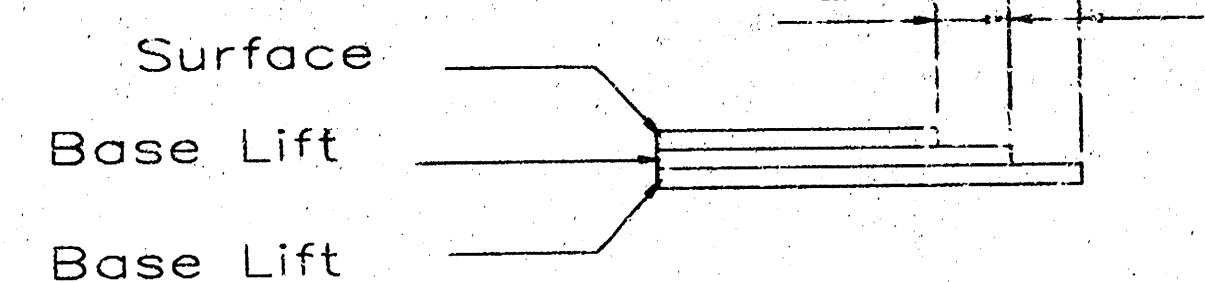
COMBINED CURB & GUTTER



COMBINED ROLL TYPE CURB &
GUTTER



	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	16.5'
A: Top of Curbs to Top of Surface Lift	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	—	—	—
B: Top of Curbs to Top of Upper Base Lift	0.27	0.31	0.37	0.44	0.48	0.56	0.62	0.65	—	—	—
C: Top of Curbs to Top of C.R. Subgrade	0.52	0.56	0.62	0.69	0.73	0.81	0.87	0.90	0.97	0.98	1.0'



TRANSVERSE CONSTRUCTION
JOINTS

Transverse construction joints shall be constructed in flexible base pavements at locations where pavement joints existing flexible base pavement as shown by the detail. All costs associated with the construction of the transverse joint shall be included in the bid price for Square Yards 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).

CRUSHED ROCK GRADATION REQUIREMENTS
Percent of Aggregate Retained

1 1/2"	0
3/4"	15-60
#4	40-80
#40	74-99
#200	88-96

Rock Quality Shall Be The Same As Specified
For Coarse Aggregate For Asphalt Concrete Mixes

- SUBGRADE ALTERNATES**
1. ALTERNATE NO. 1 - 5" CRUSHED ROCK BASE ON FABRIC REINFORCEMENT
 2. ALTERNATE NO. 2 - 5" RECYCLED ASPHALT PAVEMENT CASE ON FABRIC REINFORCEMENT

General Notes

FABRIC BASE REINFORCEMENT SHALL BE 8 X 1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM -1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

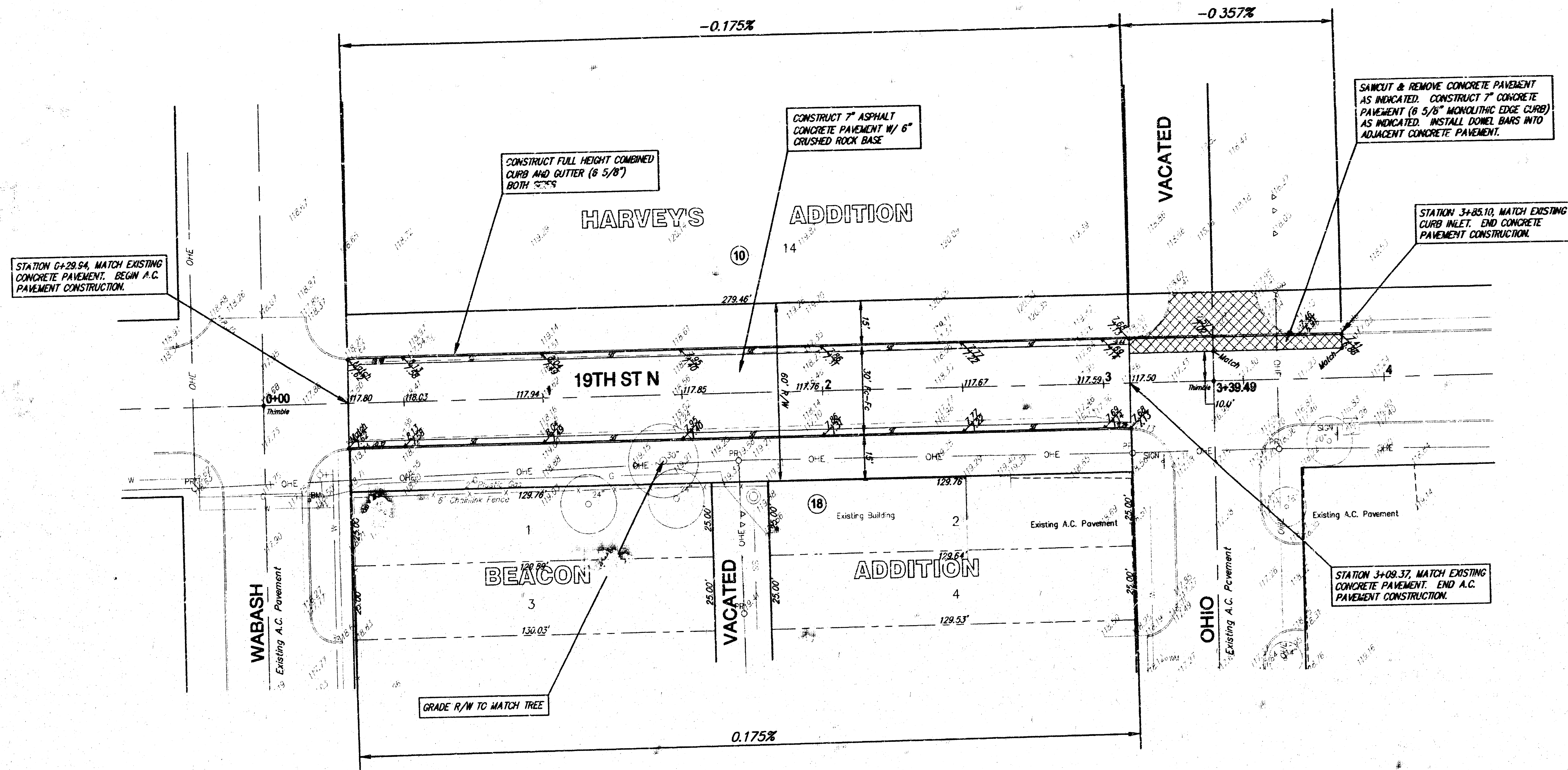
A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).

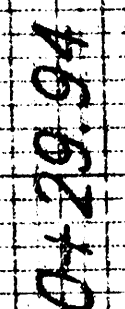
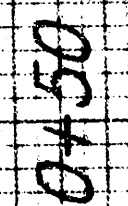
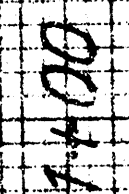
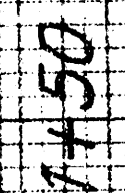
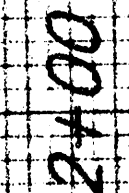
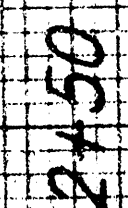
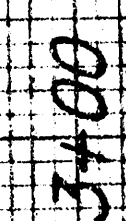
THE CITY OF WICHITA CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 405 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4901 (316) 268-2114 FAX	31' PAVEMENT 7" ASPHALTIC CONCRETE W/ CRUSHED ROCK BASE	
	M. E. LINDEBAK P.E. - CITY ENGINEER	
	PROJECT NUMBER 472-33082	SHEET NO. 765574
	DATE MAR 96	SHEET 2 OF 4



SRB
SCALE 1" = 20'
IRON = •

19TH STREET NORTH - WABASH TO OHIO STREET PLAN WICHITA, KANSAS					
SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-284-8008 FAX 316-284-4421 http://www.srb.com/~srb E-mail: srb@srb.com		SHEET 3 OF 4			
SAVOY, RUGGLES & BOHM, P. A. ENGINEERING & SURVEYING PROJECT NUMBER 472-83082					
DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
KML	KML			Sept. 3, 1999	

DATE	AIRBAG		WEIGHTS		CROSS SECTION		WINDSPEED
	1225	Square Feet	2500	3500	2500	3500	
6-8-94	36.62	6.02	33.51	0.07	33.7	0.07	14.2
06-20	51.53	0.16	166.45	0.1	156.6	0.14	5.2
11-30	39.83	0.01	113.35	0.31	204.64	0.23	0.23
1-5-96	61.15	0.66	115.02	0.28	283.26	0.3	5.3
2-6-96	83.51	0.09	111.97	0.19	141.25	0.14	0.14
2-25-96	83.62	0.11	107.14	0.14	268.70	0.16	0.16
3-08	42.52	0.36	130.02	0.26	233.72	0.20	1.00
3-18-97	51.32	0.05	244	0.29	266.74	0.27	1.76



19TH STREET NORTH	
STA. 0+29.94 TO 3+09.37	4/4
14-01-03-04	