ROCK ROAD PAVEMENT WIDENING

TO SERVE

LOTS 1, 2, 3, 4 AND 5

BLOCK 1

COMOTARA POWER CENTER

ROCK ROAD

INDEX NO. 607879

USER CODE 072 PPP

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

GENERAL NOTES

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. EXISTING UTILITIES AND THEIR LOCATION, 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 RECORDS, DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

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 AND APPROVED AS NOTED BELOW.

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 ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOUR ADVANCE NOTICE: (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION, TO KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES WITHIN THE PROJECT AREA: KPL/GAS SERVICE, K.G.&E., SOUTHWESTERN BELL TELEPHONE, MULTIMEDIA CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.

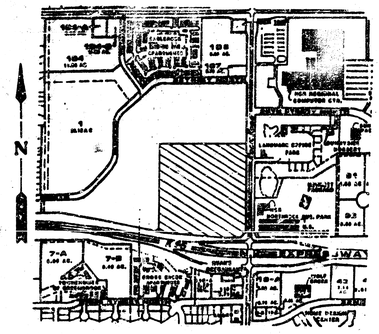
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

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.

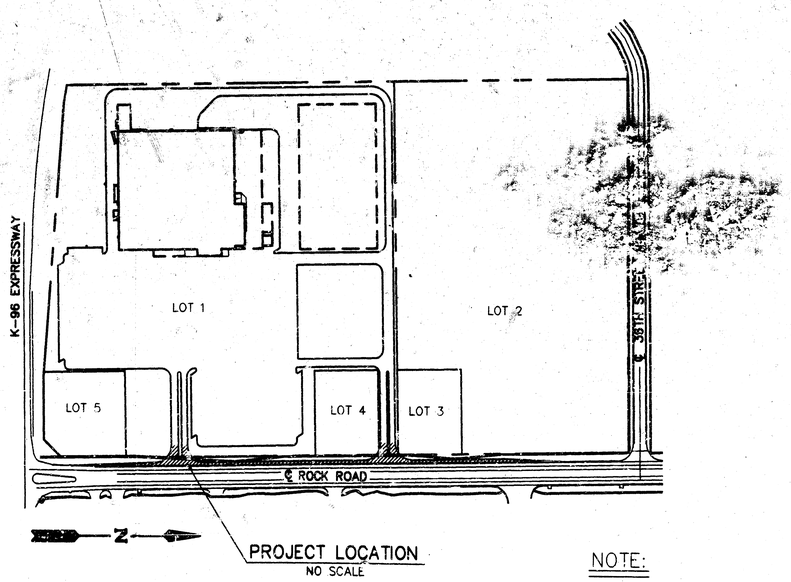
THIS PROJECT DOES NOT INCLUDE ANY PROVISIONS FOR CONSTRUCTION OF DRIVEWAYS.

LANDSCAPING AND UNDERGROUND SPRINKLER SYSTEMS ARE PRESENT WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL REMOVE THESE ITEMS AS NECESSARY FOR CONSTRUCTION, THEN RESTORE THEM TO PRE-CONSTRUCTION CONDITION AS APPROVED BY THE ENGINEER AND THE OWNER AND/OR THEIR AGENT. OTHER DISTURBED AREAS WITHIN THE PROJECT LIMITS SHALL BE SEEDED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS. ALL COSTS ASSOCIATED WITH REMOVAL AND REPLACEMENT OF LANDSCAPING AND SPRINKLERS; AND SEEDING, FERTILIZING AND MULCHING SHALL BE INCLUDED IN THE BASE BID.

TRAFFIC IS TO BE MAINTAINED THROUGH CONSTRUCTION OF THIS PROJECT. TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL BARRICADES, SIGNS, LIGHTS, AND OTHER PROTECTIVE DEVICES SHALL BE INSTALLED AND MAINTAINED IN CONFORMITY WITH THE LATEST EDITION OF THE CITY OF WICHITA BARRICADE MANUAL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



VICINITY MAP
NO SCALE



PROJECT LOCATION
NO SCALE

NOTE:

CONTACT PERSONS

BRUCE V. COLLINS, P.E., KAW VALLEY ENGINEERING, INC. 913-762-5040

LAURA BEVILACQUA, CONST. MANAGER 501-273-4287
WAL-MART STORES, INC.

BRUCE V. COLLINS LICENSED 6343 KANSAS PROFESSIONAL ENGINEER

APPROVED AS NOTED

BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____

STORM SEWERS _____

WATER MAINS _____

PAVING VRH 9/8/92

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.

INDEX TO SHEETS:

1. TITLE SHEET
2. PAVEMENT WIDENING DETAILS AND PROFILE
3. PAVEMENT WIDENING DETAILS AND PROFILE
4. PAVEMENT WIDENING DETAILS AND PROFILE
5. CITY OF WICHITA STANDARD DETAILS
6. PAVEMENT DETAILS

BENCHMARKS:

BENCHMARK #1: Brass disc City of Wichita #1. City Elevation = 198.30
℄ Rock Rd Sta 33+46.18, 58.84' Rt. Elevation = 1385.70, MSL

BENCHMARK #2: Brass disc City of Wichita #2. City Elevation = 200.18
℄ Rock Rd Sta 26+35.82, 47.91' Lt. Elevation = 1387.58, MSL

BENCHMARK #3: Railroad spike in 5th power pole East of Rock Road along Interstate 96, 1/2 mile North of 29th Street. Benchmark #65 per Kansas Highway Plans 96.
Elevation = 1401.37, MSL

LEGEND:

- Sanitary Manhole
- Light Pole
- Sign
- W — 8" — W — Water Line
- G — G — Gas Lines
- FOC — FOC — Fiber Optic Cable
- SS — 8" — SS — Sanitary Sewer Line
- OP — OP — Overhead Power Lines
- E — E — Buried Electric Cable
- Heavy Duty Concrete Paving
- Alt I: 6" Asphaltic Concrete Pavement on 8" Reinforced Crushed Rock Base
  Alt II: 10" Asphaltic Concrete Pavement on 6" Treated Subgrade
- Existing Curb & Gutter

NO.	DATE	REVISION	BY
2	9/4/92	REVISED PER CITY REQUEST	DBA
1	8/28/92	REVISED PER CITY REQUEST	JO

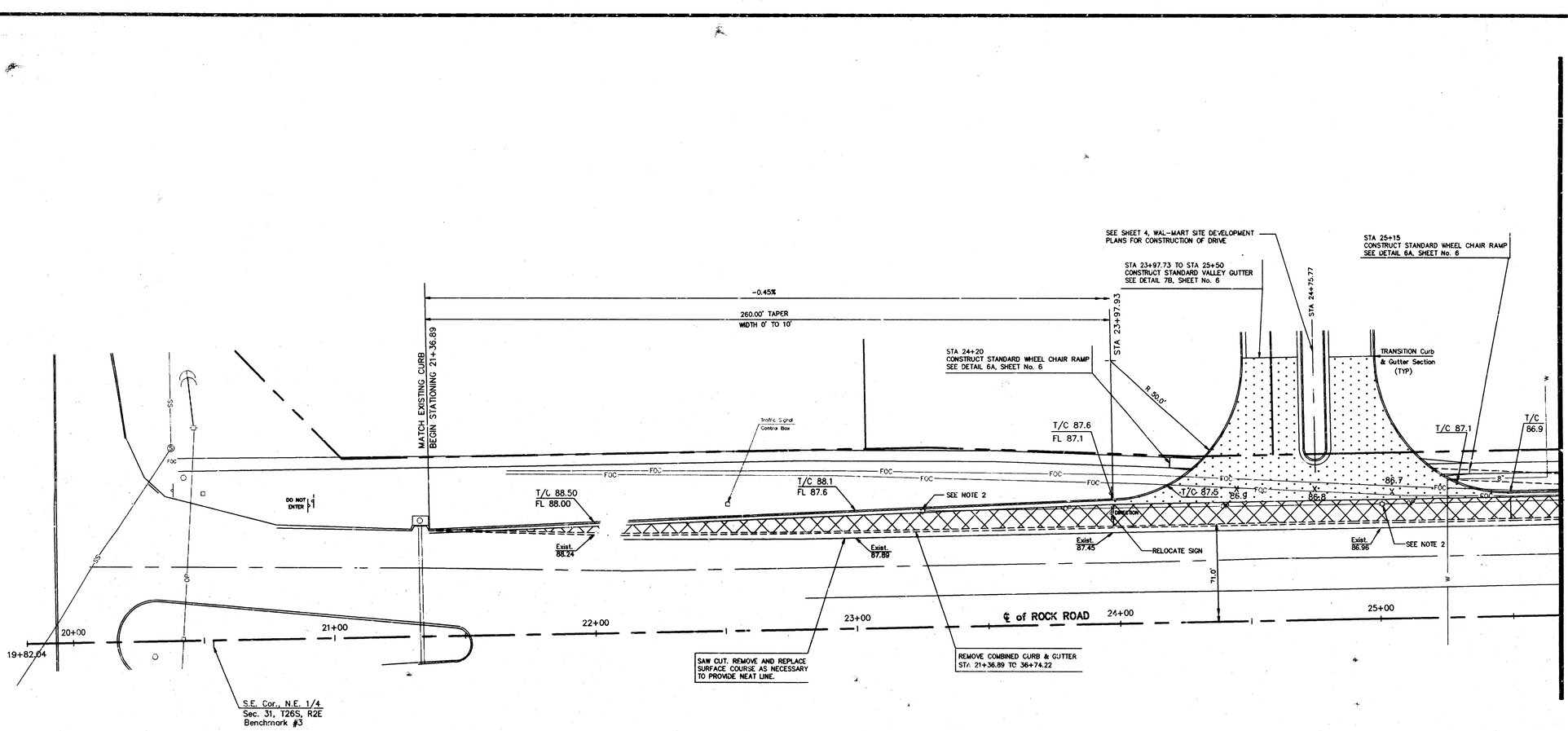
TITLE SHEET

P.O. BOX 1304
2319 NORTH JACKSON
JUNCTION CITY, KANSAS
66441
(913)762-5040
FAX 913-762-7744

KAW VALLEY ENGINEERING

122 N.W. PARKWAY
RIVERSIDE, MISSOURI
64150
(816)587-5033
FAX 816-587-0129

PROJ. NO.	92-1399
DATE	AUG 17, 1992
DESIGNED	BVC
DRAWN BY	BH
CHECKED BY	LDO
CFN	1399TTLP
SHEET	1 OF 6



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND

HEAVY DUTY CONCRETE PAVING

ALT I: 6" ASPHALTIC CONCRETE PAVEMENT ON 8" REINFORCED CRUSHED ROCK BASE
ALT II: 10" ASPHALTIC CONCRETE PAVEMENT ON 6" TREATED SUBGRADE

EXISTING CURB & GUTTER

NOTES:

1. WIDEN EXISTING STREET 10'-0" LEFT WITH HEAVY DUTY ASPHALT. SEE SHEET 6 FOR HEAVY DUTY ASPHALT DETAIL. CONSTRUCT CONCRETE CURB AND GUTTER AS SHOWN.

2. CONTRACTOR SHALL CONTACT APPROPRIATE UTILITY COMPANY FOR RELOCATION OF POWER POLES AND LIGHT POLES ALONG ROCK ROAD.

3. ALL CONSTRUCTION WORK ON CITY STREET RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH CITY OF WICHITA STANDARD DETAILS AND SPECIFICATIONS. SEE SHEETS 5 AND 6 FOR DETAILS.

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BENCHMARK #3: Railroad spike in 5th power pole East of Rock Road along Interstate 96, 1/2 mile North of 29th Street. Benchmark #65 per Kansas Highway Plans 96.
Elevation = 1401.37

PRIVATE PROJECT No. 072PPP(607879)

NO.	DATE	REVISION	BY
2	9/8/92	REVISED PER CITY REQUEST	DBA
1	8/28/92	REVISED PER CITY REQUEST	JO

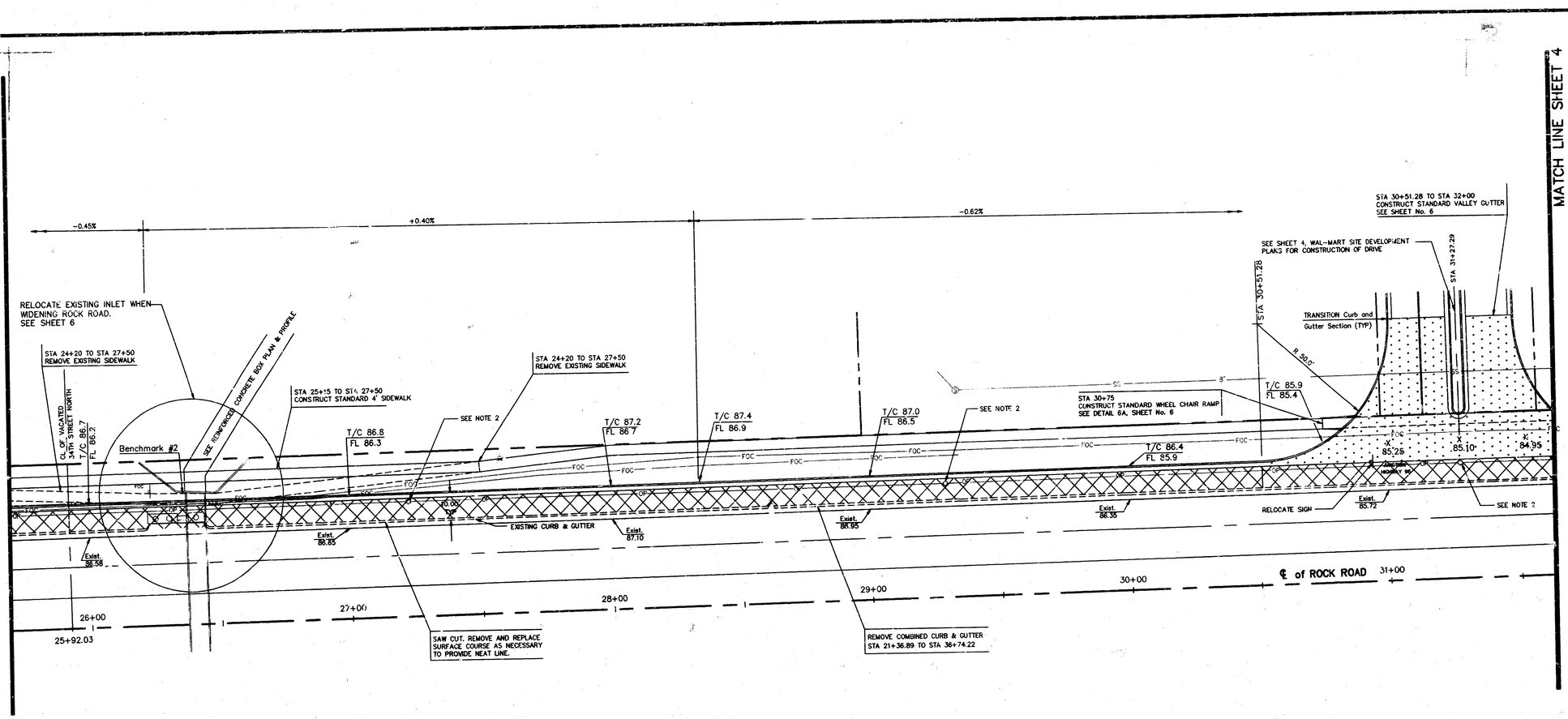
PAVEMENT WIDENING DETAILS – WICHITA, KS #91055

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RIVERSIDE, MISSOURI
64150
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FAX 816-587-0129

PROJ. NO.	92-1399
DATE	AUG 17, 1992
DESIGNER	BVC
DRAWN BY	BH
CHECKED BY	
CFN	ROADCW
SHEET	2 OF 6



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

LEGEND

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1	8/28/92	REVISED PER CITY REQUEST	JO

PAVEMENT WIDENING DETAILS – WICHITA, KS #91055

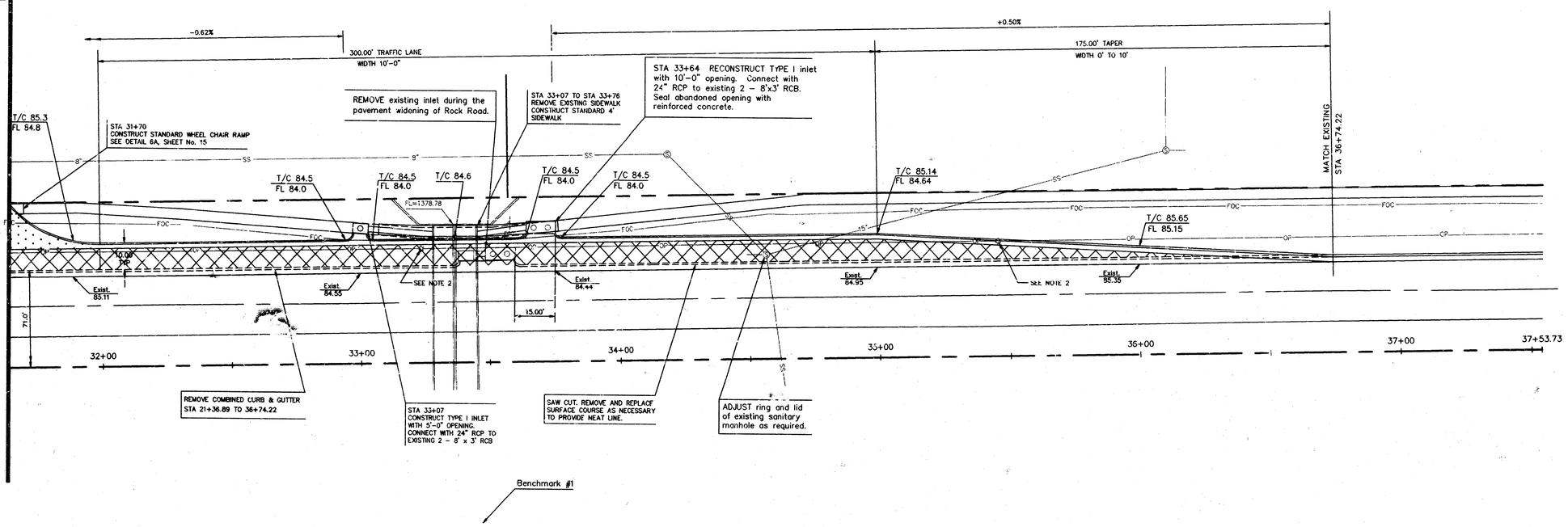
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DATE	AUG 17, 1992
DESIGNER	BVC
DRAWN BY	BH
CHECKED BY	
CFN	ROADCW
SHEET	3 OF 6

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MATCH LINE SHEET 3



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND

HEAVY DUTY CONCRETE PAVING

ALT I: 6" ASPHALTIC CONCRETE PAVEMENT ON 8" REINFORCED CRUSHED ROCK BASE
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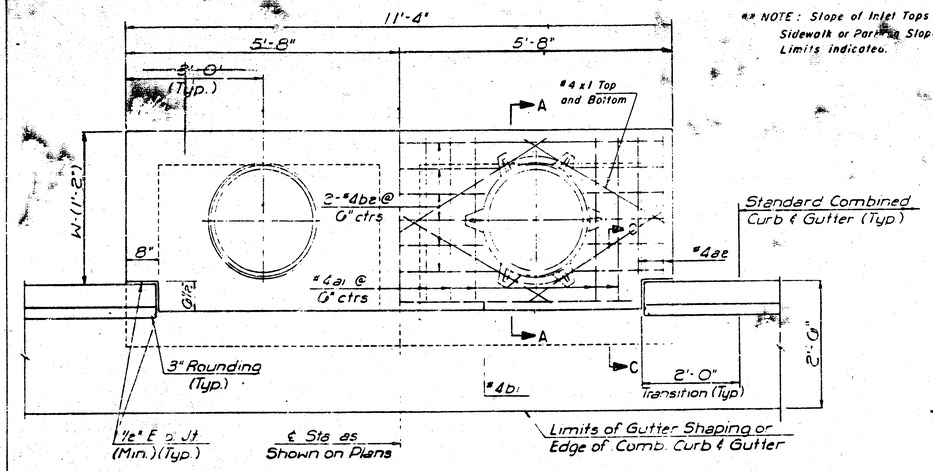
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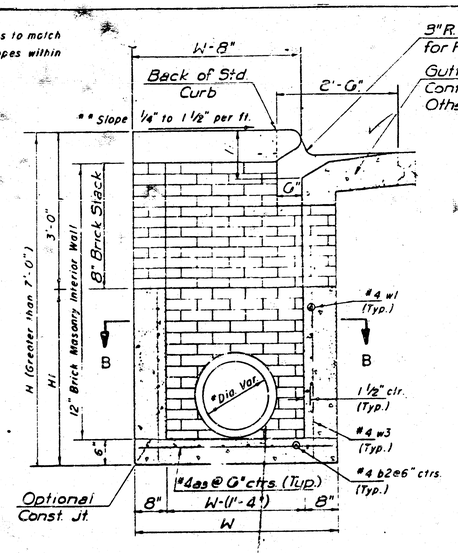
PROJ. NO.	92-1399
DATE	AUG 17, 1992
DESIGNER	BVC
DRAWN BY	BH
CHECKED BY	
CFN	ROADCW
SHEET	4 OF 6



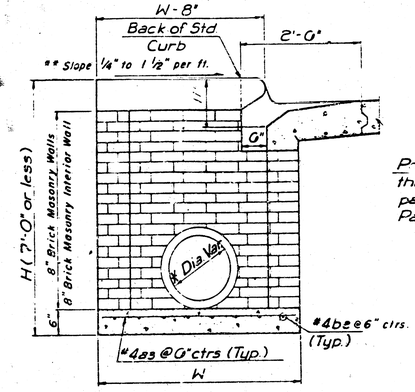
SLAB REINFORCING NOT SHOWN SHOWING SLAB REINFORCING

PLAN

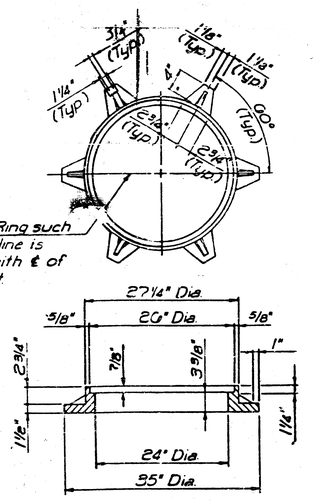
** NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.



TYPICAL INLET SECTION AT CENTER WALL
(Reinforced Concrete Walls)

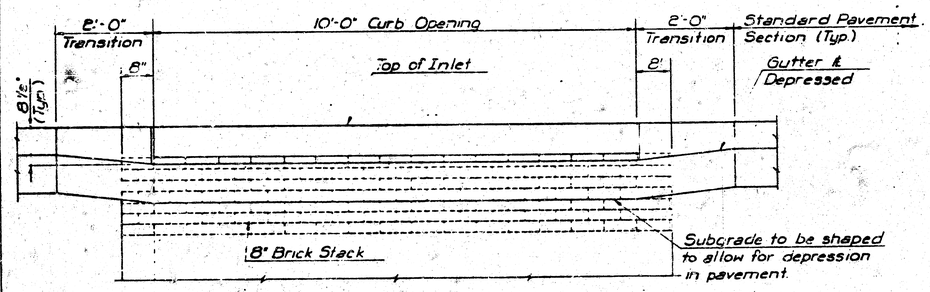


TYPICAL INLET SECTION AT CENTER WALL
(Masonry Walls)

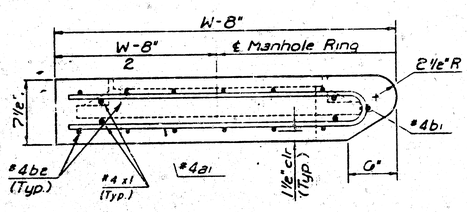


INLET FRAME (Weight = 180 LBS.)

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

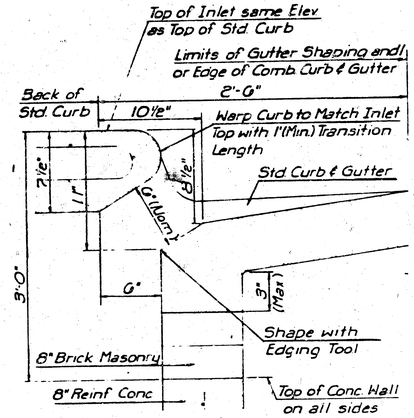


ELEVATION

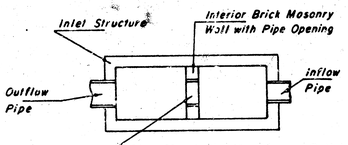


SECTION A-A

* A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II Below.

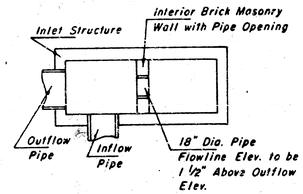


SECTION C-C



Pipe Size to be the same as Outlet Pipe Size. Flowline Elev. to be Average of Lowest Inflow Pipe Elev. and Outflow Pipe Elev.

CASE I



CASE II

NOTE: Center Wall Pipe Size shall be as Specified in Inlet Construction Note on the Plan/Profile Sheets for those Cases not shown here.

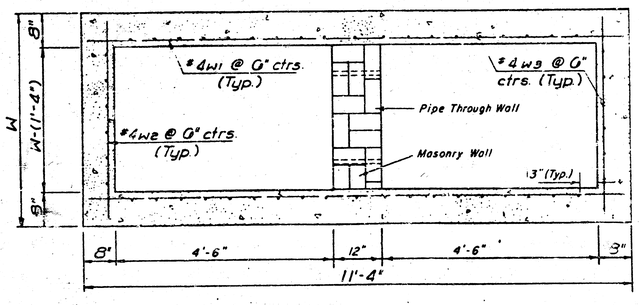
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	SIDE OR INTERIOR WALL PIPE SIZE	CU. YD. CONC.
4'-4"	5'-8" x 11'-4" x 7 ½"	21" & SMALLER	0.83 ±
5'-4"	6'-8" x 11'-4" x 7 ½"	24" & 30"	1.09 ±
6'-4"	5'-8" x 11'-4" x 7 ½"	36" & 42"	1.35 ±
7'-4"	6'-8" x 11'-4" x 7 ½"	48" & 54"	1.61 ±
8'-4"	7'-8" x 11'-4" x 7 ½"	60" & 66"	1.87 ±

PRECAST SLAB AND FLOOR REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6'-7"	13	8'-7"	13	10'-7"	13	12'-7"	13	14'-7"
*a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	23	4'-1"	23	5'-1"	23	6'-1"	23	7'-1"	23	8'-1"
b1	#4	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"
*b2	#4	23	11'-1"	29	11'-1"	35	11'-1"	41	11'-1"	47	11'-1"
x1	#4	16	3'-10"	16	4'-2"	16	4'-6"	16	4'-10"	16	5'-2"
WALL REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	52	②	56	②	60	②	64	②	68	②

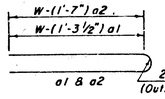
* Field bend or cut Reinforcing as required for clearance.

① 4(H1-12") (H1-12") Rounded down to nearest 0.5'

② H1-3"



SECTION B-B



BENDING DIAGRAM

GENERAL NOTES

Concrete shall be C.O.W. Standard Paving Mix. All exposed edges shall be finished with an edging tool. Reinforcing Bars shall be field bent or cut to clear pipes and inlet rings. All bars are #4 bars at 6" Spacing and shall have a minimum clearance of 1½" unless otherwise noted. Floors of inlet shall be shaped with 8 Sack Sand Mix Concrete to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outfall pipe(s). The Contractor will be required to construct 8" Brick Masonry Walls between the concrete inlet base and top on this inlet when H=7'-0" or less and W=6'-4" or less.

WHEN W IS GREATER THAN 6'-4" AND H IS LESS THAN 7'-0", THE OUTSIDE INLET WALLS BELOW THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION.

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.

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

Revised 2-16-89

DETAIL STANDARD TYPE I CURB INLET

INLET OPENING = 6' x 10'-0"

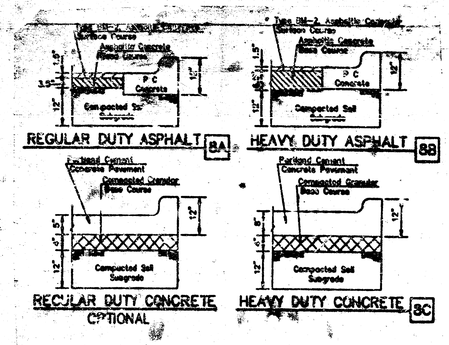
CITY OF WICHITA

M. E. LINDEBAK, CITY ENGINEER

OCTOBER 1984

C.O.W. - STANDARD DETAILS

KAW VALLEY ENGINEERING & DEVELOPMENT, INC



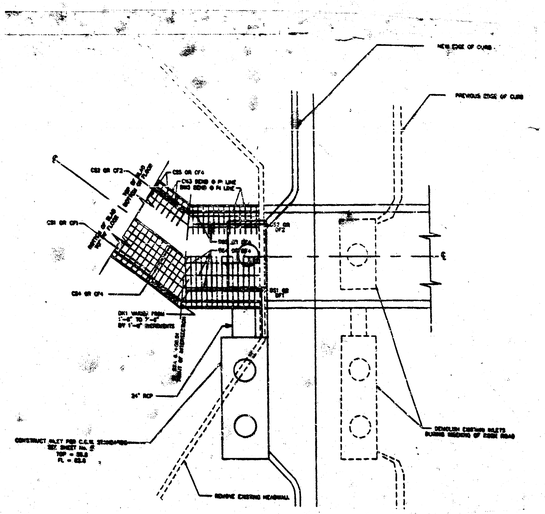
REGULAR DUTY ASPHALT 8A

HEAVY DUTY ASPHALT 8B

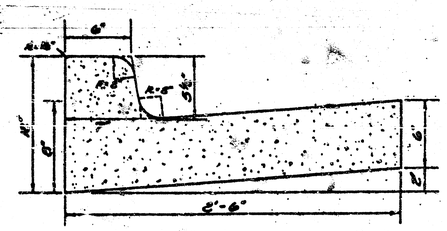
REGULAR DUTY CONCRETE OPTIONAL

HEAVY DUTY CONCRETE 8C

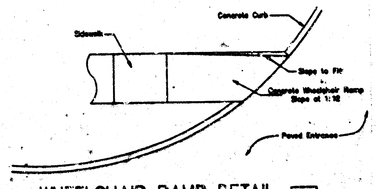
1. Flexible pavement shall be in accordance with the latest edition of the Kansas Department of Transportation's Standard Specifications for State Road and Bridge Construction, Division 600.
2. Portland cement concrete shall have a minimum compressive strength of 4000 PSI at 28 days with 6% entrained air ±2% and shall meet or exceed the specifications set forth in the latest edition of the Kansas Department of Transportation's Standard Specifications for State Road and Bridge Construction, Divisions 400 and 500.
3. Refer to Wal-Mart Sitework Specifications for Concrete Pavement Jointing, Spacing, and Details.
4. Pavement design based on unstabilized subgrade CBR of 4.0
5. Heavy Duty Concrete is an alternate pavement for 8B Heavy Duty Asphalt. When plans specify 8C no alternate are allowed.



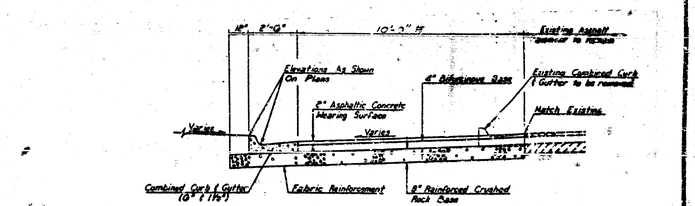
INLET RECONSTRUCTION DETAIL
SEE SITE DEVELOPMENT PLANS (SAM'S CLUB)



COMBINED CURB & GUTTER
(Concrete)



WHEELCHAIR RAMP DETAIL 6A



FABRIC BASE REINFORCEMENT SHALL BE 8.9 1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

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

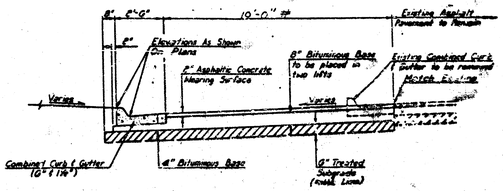
CRUSHED ROCK GRADATION REQUIREMENTS
PERCENT OF AGGREGATE RETAINED

1 1/2"	0
1"	10-55
3/4"	40-85
#4	90-95
#200	98-100

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE LAST EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR AGGREGATE CLASS A.

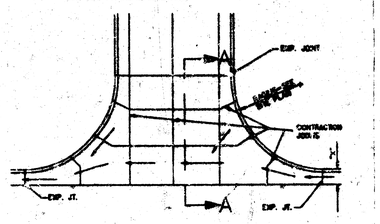
Varies Sta. 21+36.89 to 23+97.93 and Sta. 35+00 to 36+74.82 See Plan

TYPICAL SECTION
ALTERNATE NO. 1



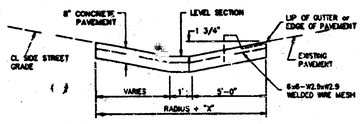
TYPICAL SECTION
ALTERNATE NO. 2

NOTE: BID ITEM FOR 8" CONCRETE VALLEY GUTTER INCLUDES CURB AND ALL PAVING AS INDICATED.



PLAN VIEW

NOTE: CONTRACTOR TO TAKE CARE IN GRADING VALLEY GUTTER TO ASSURE POSITIVE DRAINAGE OF STREET.



SECTION AA

VALLEY GUTTER 7B

NO.	DATE	REVISION	BY
1	8/28/92	REVISED PER CITY REQUEST	JO

PAVEMENT DETAILS

PROJ. NO. 92-1383
DATE 8/17/92
DESIGNED JPC
CHECKED BF
DRAWN BY JPC
SHEET 6 OF 6

KAW VALLEY ENGINEERING

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14-03-03-04