44TH STREET SOUTH IMPROVEMENTS

FROM 100' W. OF W.L. LOT 1, BLOCK A, TO E.L. OF RESERVE "B"

COTTONWOOD GROVE 3RD ADDITION

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER

PROJECT NO. 116-PPP

INDEX CODE 607879

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.
5. 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.
6. 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.
7. 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 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. Location information has been obtained from the various utility companies and is either from company record 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.
8. 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.
9. The Contractor will provide temporary seeding of the R/W with rye grass at a rate of 20lbs/acre.
10. No more than 1 drive 25 feet in width or equivalent combinations thereof, are to be constructed with this project.
11. Traffic will not be affected by construction of this project.

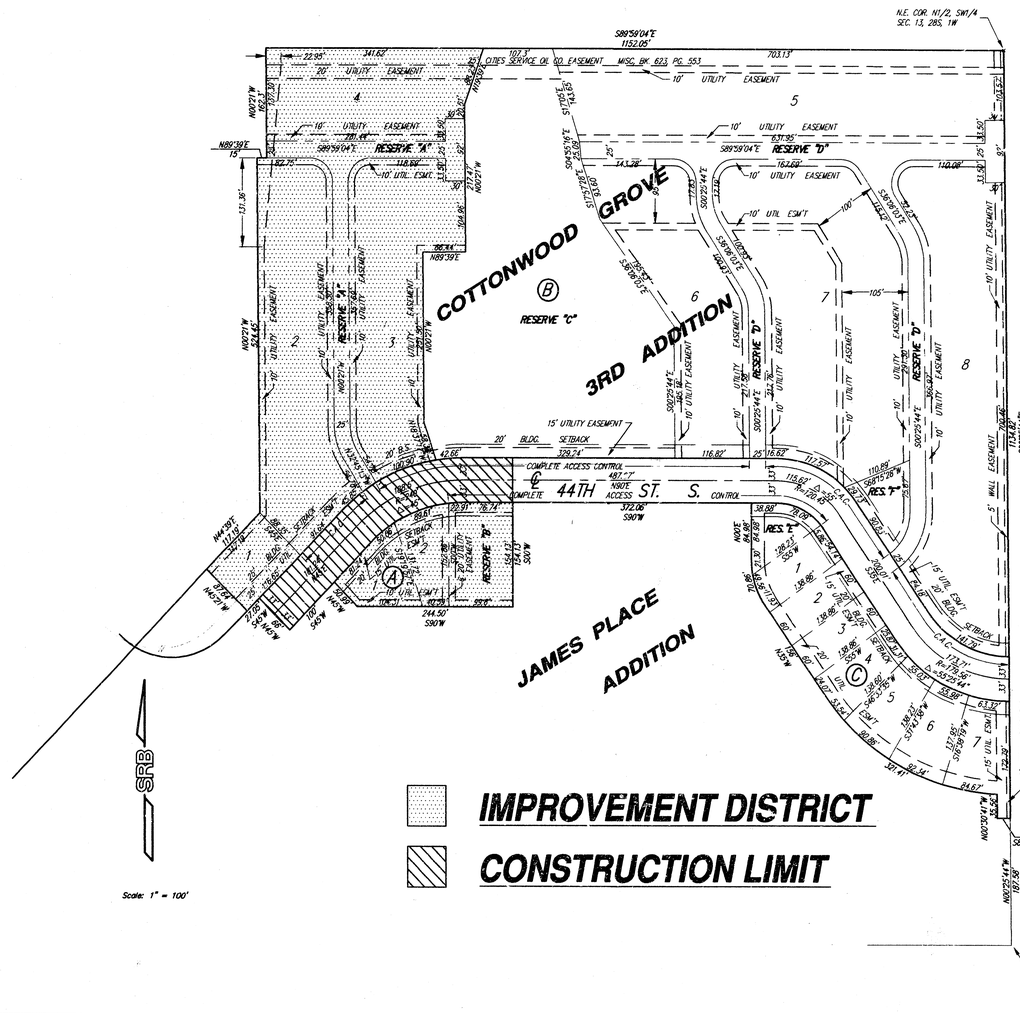
BENCHMARK

"□" CUT ON TOP OF S. CURB 44TH ST. S.
@ E. END OF CURVE ON N. SIDE OF LOT 3, BLOCK 2,
COTTONWOOD GROVE ADDITION
ELEV.=95.40 (CITY DATUM)

TOTAL PROJECT LENGTH = 450 FT.

SUMMARY OF EARTHWORK

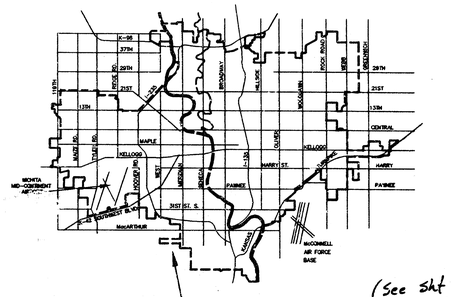
EXCAVATION = 635 C.Y.
LOOSE FILL = 223 C.Y.
COMPACTED FILL = 11 C.Y.



INDEX

1. TITLE SHEET
2. TYPICAL 37' PVMT. SECTION
3. VALLEY GUTTER & WHEELCHAIR RAMP DETAILS
4. 44TH STREET SOUTH PAVING PLAN
5. TYPE 1 INLET DETAILS
6. SIGNING DETAILS
7. EARTHWORK CROSS SECTIONS
8. EARTHWORK CROSS SECTIONS/TOTALS
9. FINAL PLAT

BOOKED 1-6-01 MCG D-501



(See Sht 4 for SWS & change)

As-Built Plans (Built per plan)

Inspector: Tim Kelly
Inspection firm: Savoy, Ruggles & Bohm
Completion Date: ~~10-20-00~~ ~~11-03-00~~ 12-01-00

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers _____
Driveway Approaches _____
Water Mains _____
Paving VRH 10/5/98

NOTE TO CONTRACTORS

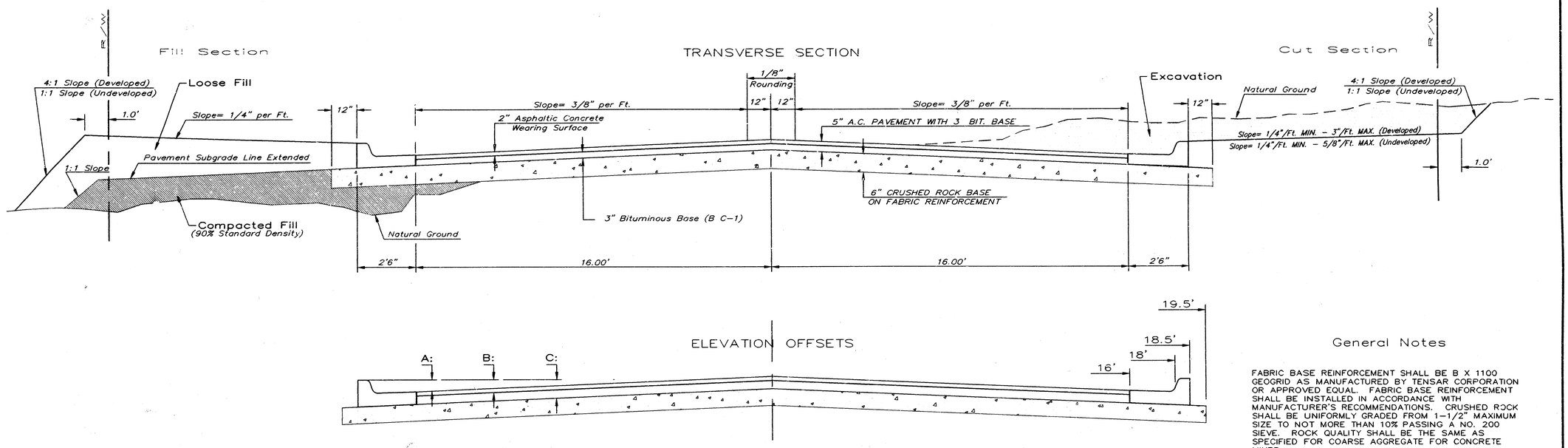
Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such Inspection, nor shall any work be commenced without written authorization by the City Engineer.

THOMAS CHARLES BUSSER LICENSED 9421 10-5-98 KANSAS PROFESSIONAL ENGINEER

10467

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

TYPICAL 37' B–B PAVEMENT DETAILS



General Notes

FABRIC BASE REINFORCEMENT SHALL BE B 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 1–1/2" 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.

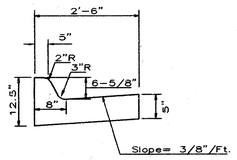
ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PROIR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

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.

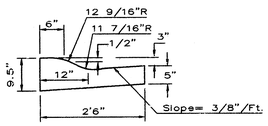
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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.)



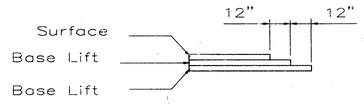
COMBINED CURB & GUTTER



COMBINED ROLL TYPE CURB & GUTTER

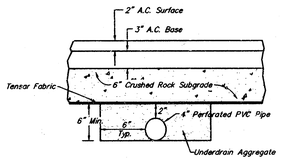
DISTANCE FROM CENTERLINE (LT. & RT.)

	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	18.5'	19.5'
A: Top of Curbs to Top of Surface Lift	0.01	.05	0.11	0.18	0.24	0.30	0.36	0.43	0.49	–	–	–
B: Top of Curbs to Top of Upper Base Lift	0.17	0.22	0.28	0.34	0.40	0.47	0.53	0.59	0.65	–	–	–
C: Top of Curbs to Top of C.R. Subgrade	0.42	0.47	0.53	0.59	0.65	0.72	0.78	0.84	0.90	0.97	0.98	1.01



TRANSVERSE CONSTRUCTION JOINTS

Transverse construction joints shall be constructed in flexible base pavements at locations where pavement joins 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).

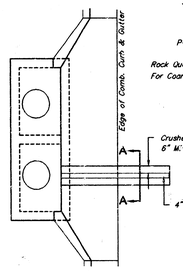


SECTION A–A

CRUSHED ROCK GRADATION REQUIREMENTS
Percent of Aggregate Retained

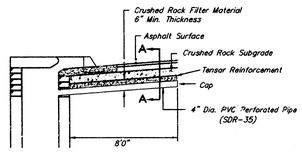
1 1/2"	0
3/4"	15–60
#4	40–80
#40	74–92
P–200	4–12

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



NOTE: Place 4" PVC Perforated Pipe at all drainage sump locations.

Cost of Underdrain System to be Incidental to the Reinforced Crushed Rock Subgrade.



(Min. 16 Perforations Per Lin. Ft. @ 1/4" Dia.)
Perforations To Be on Bottom Half

PAVEMENT UNDERDRAIN DETAIL

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

37' PAVEMENT 5" ASPHALTIC CONC. W/ CRUSHED ROCK BASE

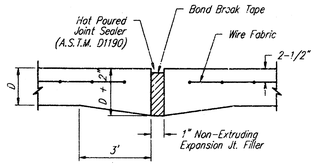
M. E. LINDEBAK P.E. – CITY ENGINEER

PROJECT NUMBER **116-PPP**

INDEX CODE **607879**

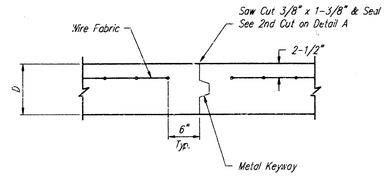
DATE **MAR 96**

SHEET **2** OF **9**

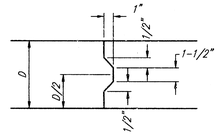


EXPANSION JOINT

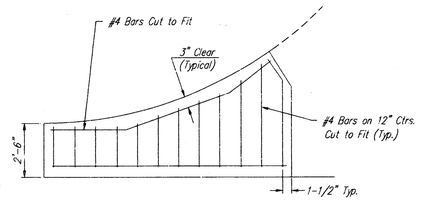
NOTE: Extra Thickness to be Subsidiary to Price of Square Yards Pavement



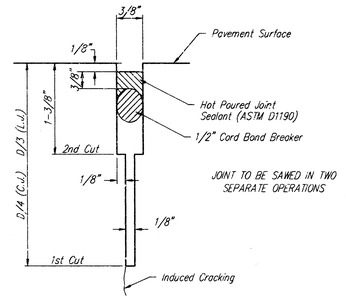
OPTIONAL CONTRACTION JOINT



KEYWAY DETAIL

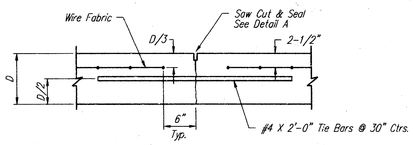


WING REINFORCING DETAIL

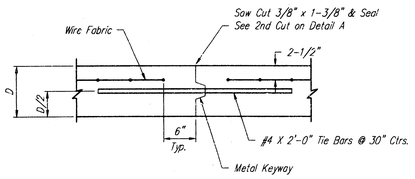


SAW JOINT DETAIL

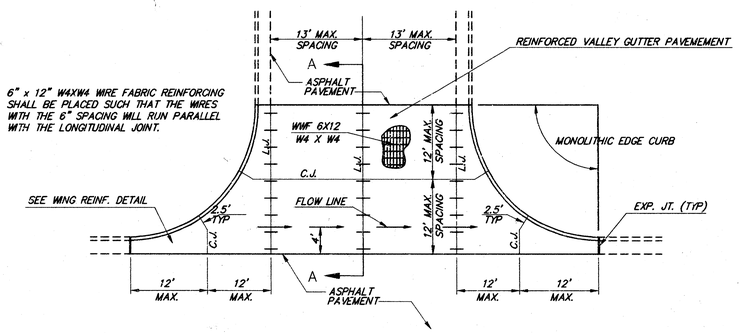
CONTRACTION JOINT DETAIL (C.J.)



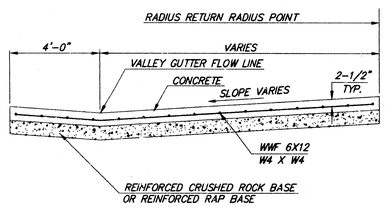
LONGITUDINAL JOINT DETAIL (L.J.)



OPTIONAL LONGITUDINAL JOINT DETAIL (L.J.)

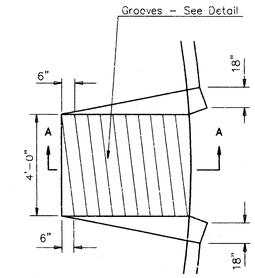


PLAN

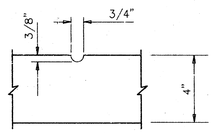


SECTION A–A

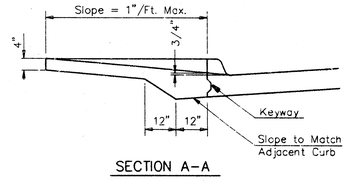
REINFORCED VALLEY GUTTER DETAIL



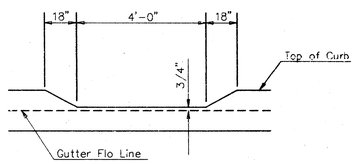
WHEELCHAIR RAMP PLAN VIEW



GROOVE DETAIL



SECTION A–A



DEPRESSED CURB DETAIL

WHEELCHAIR RAMP DETAIL

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL – SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4467
(316) 268-4474 FAX

VALLEY GUTTER DETAILS

WHEELCHAIR RAMP DETAILS

M. E. LINDEBAK P.E. – CITY ENGINEER

PROJECT NUMBER	INDEX CODE
116-PPP	607879

DATE	SHEET
MAR 96	SHEET 3 OF 9

SCALE: 1" = 20'

"CI" CUT ON TOP OF S. CURB 44TH ST. S.
@ E. END OF CURVE ON N. SIDE OF LOT 3, BLOCK 2, COTTONWOOD GROVE 4TH ADDITION
ELEV.=95.40 (CITY DATUM)

SW COR., LOT 1, BLOCK 1 COTTONWOOD GROVE 3RD ADD.

SRB Pin

IRON @ STA 0+03.00

STA. 0+00
SAW CUT AND REPLACE CURB AND A.C. PAVEMENT.

REMOVE AND REPLACE 5 L.F. OF 4' SIDEWALK.

CONSTRUCT 5" ASPHALT CONCRETE PAVEMENT WITH 6" CRUSHED ROCK BASE (See detail Sheet 2 of 9).

STA. 2+35.53
CONSTRUCT VALLEY GUTTER AND WHEELCHAIR RAMPS R=20' (See detail Sheet 3 of 9).

CONSTRUCT 4' CONC. SIDEWALK

REMOVE EXISTING CONC. WALK EXCEPT WHEELCHAIR RAMP. DEFLECT NEW WALK AT STA. 0+03 TO MATCH EXIST. WHEELCHAIR RAMP. COST TO BE INCIDENTAL TO PAVING. (See detail Sheet 4 of 9)

REMOVE EXISTING END OF PAVEMENT WARNING SIGN AND PLACE AT STA. 4+50

CONSTRUCT STANDARD FULL HEIGHT CURB AND GUTTER (6 5/8") ALONG BOTH SIDES (See detail Sheet 2 of 9).

CONSTRUCT 4' CONC. SIDEWALK

FLOW LEFT = 89.5 (See profile this sheet)

CAUTION!! 12" Water Line Crossing

STA. 4+00
INSTALL 6 - 38" x 24" HERCP 108' LONG INCLUDING END SECTIONS @ 5'-8" O.C. PIPES TO BE CENTERED ON STA. 4+00. CONSTRUCT STD. TYPE 1 INLETS (11'-4" x 4'-4") 18' LT. & 18' RT. TO INSIDE FACE. (See profile this sheet). *INSTALL INLET SEDIMENT BARRIERS. (See detail this sheet).

INSTALL 3 'RED DIAMOND' END OF PAVEMENT WARNING MARKERS AT END OF PAVEMENT.

FLOW RIGHT = 89.3 (See profile this sheet)

PLACE 42 S.Y. HEAVY STONE RIP-RAP

EXISTING HIGH BANK

EXISTING WATER'S EDGE

44TH STREET SOUTH

COTTONWOOD GROVE 3RD ADDITION

JAMES PLACE ADDITION

RESERVE "A"

RESERVE "B"

PROPOSED 8" SANITARY SEWER

10' UTILITY EASEMENT

EXIST. 12" WATER

EXIST. CONC. PAVEMENT

EXIST. CONC. SIDEWALK

EXIST. A.C. PAVEMENT

EXIST. 8" WATER

EXIST. DIRT & CONC. RUBBLE

EXISTING

PROPOSED

POND

STA 0+00

STA 1+84.24

STA 2+07.85

STA 2+63.23

STA 3+72.74

STA 4+00

STA 4+50

-0.326%

-0.332%

-0.339%

-0.320%

-0.362%

CULVERT PROFILE

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'

STA. 4+00, 54' RT. END CONST. 6 - 38" x 24" HERCP WITH END SECTIONS

STA. 4+00, 18' RT. CONST. STD. TYPE 1 CURB INLET (11'-4"x4'-4") TOP = 83.19 CITY DATUM

STA. 4+00 CENTERLINE 44TH ST. NO.

STA. 4+00, 18' LT. CONST. STD. TYPE 1 CURB INLET (11'-4"x4'-4") TOP = 83.19 CITY DATUM

STA. 4+00, 54' LT. BEGIN CONST. 6 - 38" x 24" HERCP WITH END SECTIONS

4' SIDEWALK

PROPOSED PAVEMENT

DWS = 91.5

NWS = 89.5

DWS = 92.8

NWS = 89.5

36.0 L.F. 38"x24" HERCP @ 0.185%

36.0 L.F. 38"x24" HERCP @ 0.185%

35.0 L.F. 38"x24" HERCP @ 0.185%

5.04 %

CAUTION!! 12" Water Line Crossing

FLOW OUT = 89.50

FLOW IN = 89.75

89.87

89.68

100

95

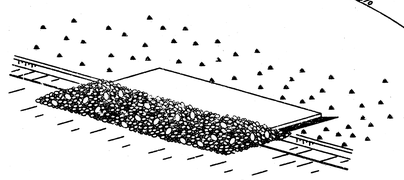
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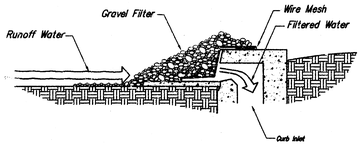
85

54' Right

℄ 44th St. So.

54' Left





GRAVEL CURB INLET SEDIMENT BARRIER

44th STREET SOUTH
PAVING PLAN
WICHITA, KANSAS

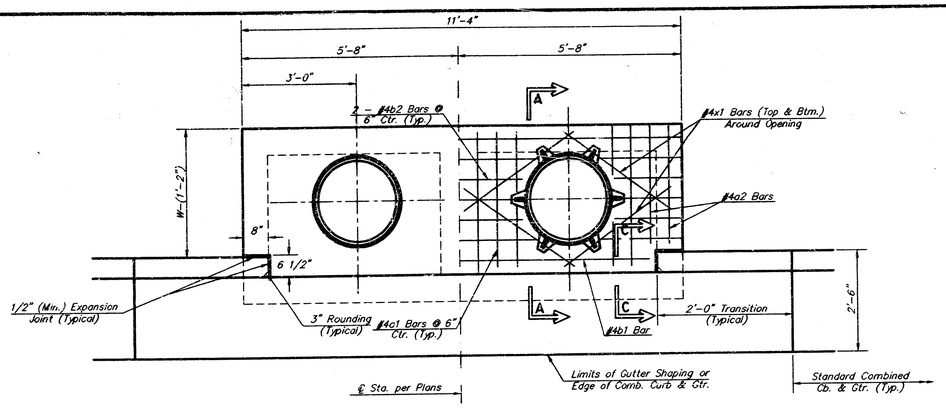
SRB 924 NORTH MAIN WICHITA, KANSAS 67203 http://www.feist.com/~srb
316-264-8008 FAX 264-4621 E-mail: srb@feist.com
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
116-PPP (607879)

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
JDS	JDS			Oct. 4, 1998	-

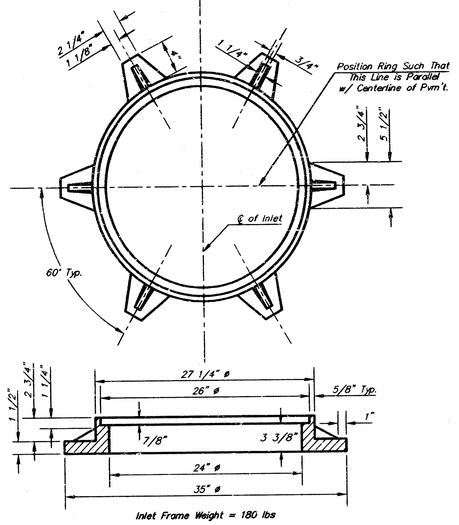
DWG FILE ppd1

SHEET 4 OF 10



PLAN

*Left Side Shown Without Slab Reinforcing, Right Side Shown With Slab Reinforcing



Inlet Frame Weight = 180 lbs

MANHOLE RING AND COVER

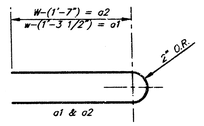
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.

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"

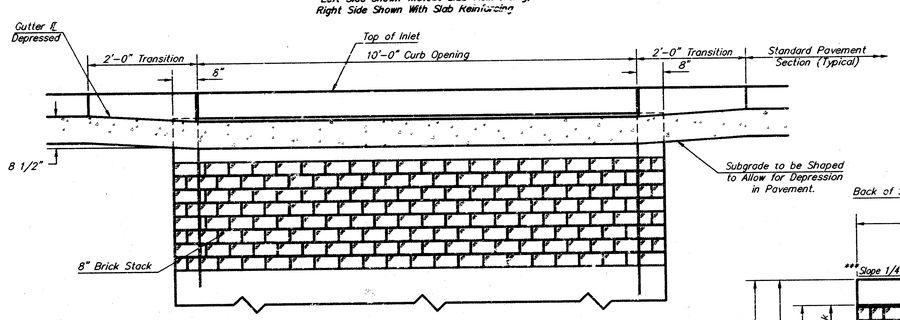
WALL REINFORCING									
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	52	②	56	②	60	②	64	②	68	②

* Field Bend or Cut Reinforcing as Required for Clearance.
① 4 (HI - 12") (HI - 21") Rounded down to nearest 0.5'
② HI - 3"

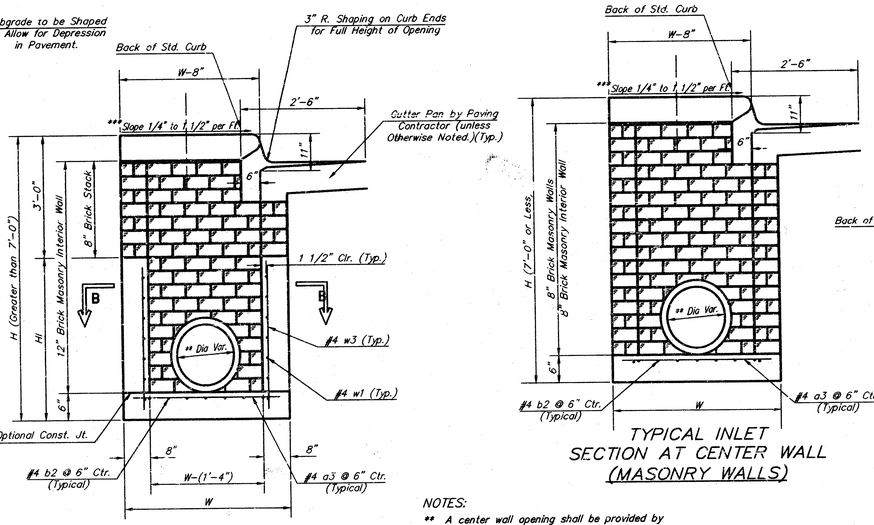
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 11'-4" x 7 1/2"	21" & SMALLER	0.83±
5'-4"	4'-8" x 11'-4" x 7 1/2"	24" & 30"	1.09±
6'-4"	5'-8" x 11'-4" x 7 1/2"	36" & 42"	1.35±
7'-4"	6'-0" x 11'-4" x 7 1/2"	48" & 54"	1.61±
8'-4"	7'-8" x 11'-4" x 7 1/2"	60" & 66"	1.87±



BENDING DIAGRAM



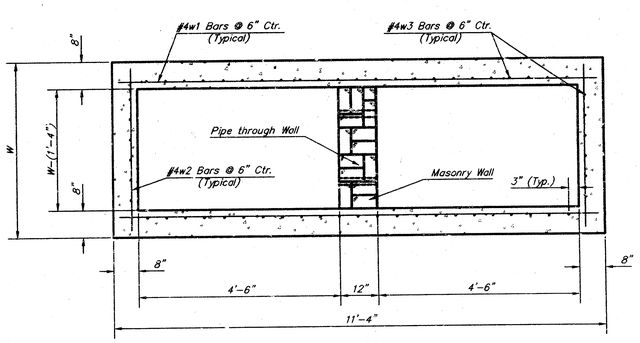
ELEVATION



TYPICAL INLET SECTION AT CENTER WALL (REINFORCED CONCRETE WALLS)

TYPICAL INLET SECTION AT CENTER WALL (MASONRY WALLS)

NOTES:
** A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II below.
*** Slope of inlet tops to match sidewalk of parking slopes within limits indictated



SECTION B-B

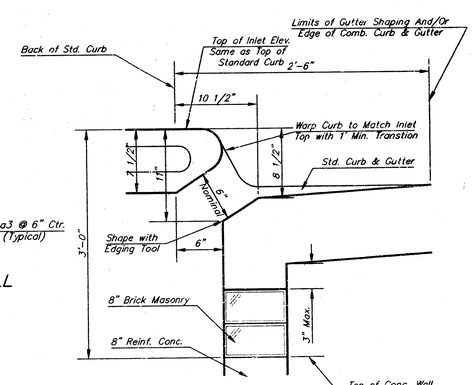
GENERAL NOTES:

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 @ 6" spacing and shall have a minimum clearance of 1 1/2" 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 outlet pipe(s). The contractor will be required to to construct 8" brick masonry walls between the 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.

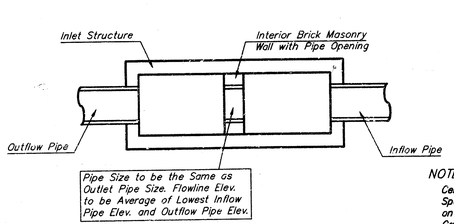
Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

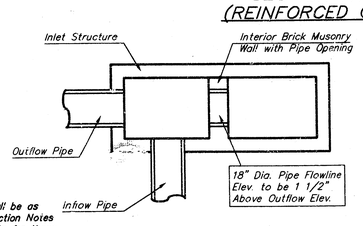
This detail is identical to the standard detail drawing except that the gutter transition length is increased from 2'-0" to 3'-6".



SECTION C-C

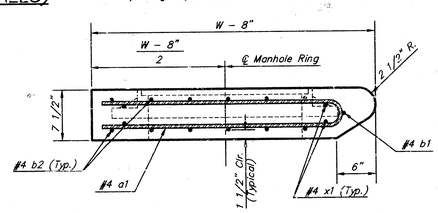


CASE I



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

CASE II



SECTION A-A

THE CITY OF WICHITA

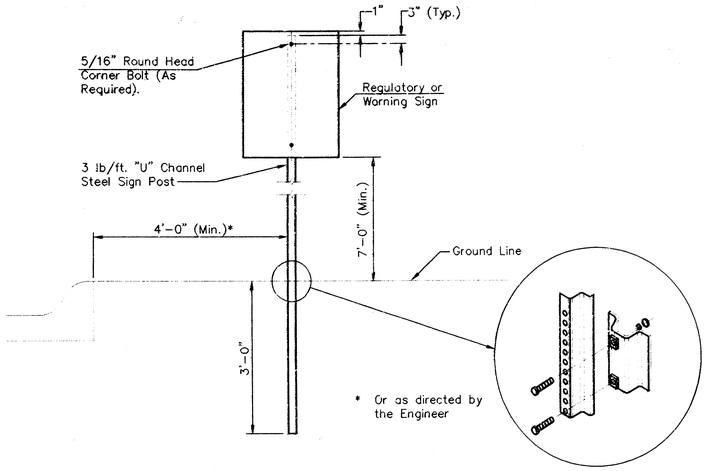
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4500
(316) 268-4114 FAX

STANDARD TYPE 1 CURB INLET OPENING = 6"x10'-0"

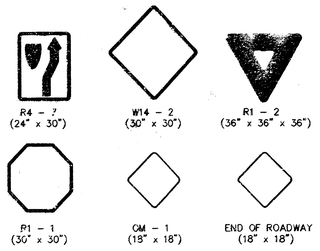
M. E. LINDEBAK P.E. - CITY ENGINEER

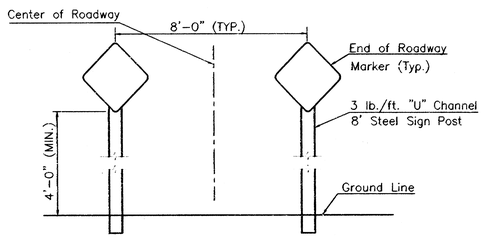
PROJECT NUMBER	INDEX CODE
116-PPP	607879

DATE	SHEET
MAR 96	SHEET 5 OF 9

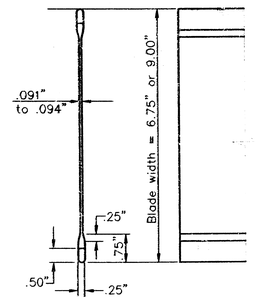


TYPICAL TRAFFIC CONTROL SIGN MOUNTING INSTALLATION
CURB AND GUTTER SECTION





TYPICAL END OF ROADWAY SIGN MOUNTING INSTALLATION



STREET NAME SIGN
BLADE DETAILS

SIGN ASSEMBLY TABLE			
STATION	OFFSET	SIGN	QUANTITY*
4+50	12' RT.	END OF PAVEMENT	1
4+50	0' RT.	END OF PAVEMENT	1
4+50	12' LT.	END OF PAVEMENT	1
TOTAL			

* FOR INFORMATION ONLY

STREET NAME	NO. BLADES REQ'D	
	6 3/4" STD.	9" METRO

NOTE: REFERENCES BELOW TO "STANDARD SPECIFICATIONS" DENOTE "STANDARD SPECIFICATION FOR STATE ROAD AND BRIDGE CONSTRUCTION, EDITION 1990" BY THE KANSAS DEPARTMENT OF TRANSPORTATION.

1. POST ANCHORS: POSTS SHALL BE ANCHORED WITH A YIELDING BASE POST SUPPORT AS DETAILED.
2. POSTS FOR TRAFFIC CONTROL SIGNS: POSTS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1620 OF THE STANDARD SPECIFICATIONS EXCEPT THAT ALL POSTS SHALL WEIGH 3 LBS./FOOT MINIMUM.
3. POSTS FOR STREET NAME SIGNS (SNS): POSTS SHALL BE 9 FEET LONG, CONSTRUCTED FROM 2 3/8" O.D. GALVANIZED STEEL PIPE WEIGHING A MINIMUM OF 3 LBS./FOOT. POSTS SHALL BE POSITIONED SO THAT THE BOTTOM BLADE IS 7 FEET ABOVE GRADE.
4. POSTS FOR END OF ROADWAY SIGN TO BE 8' LONG AND INSTALLED A MINIMUM OF 4' FROM ROADWAY TO BOTTOM OF SIGN.
5. SIGN BLANKS FOR TRAFFIC CONTROL SIGNS: SIGN BLANKS SHALL BE FABRICATED FROM 0.080" ALUMINUM ALLOY 6063-T6 CONFORMING TO THE REQUIREMENTS OF SUBSECTION 1626 OF THE STANDARD SPECIFICATIONS.
6. SIGN BLADES FOR STREET NAME SIGNS: EXTRUDED ALUMINUM BLADES SHALL BE ALUMINUM ALLOY CONFORMING TO 6063-T6 OR 5052-H38 (ASTM SPECIFICATION B221, LATEST ISSUE). BLADES SHALL HAVE AN ALODINE OR PHOSPHATE ETCHED FINISH. BLADES SHALL HAVE SQUARE CORNERS AND NO HOLES.

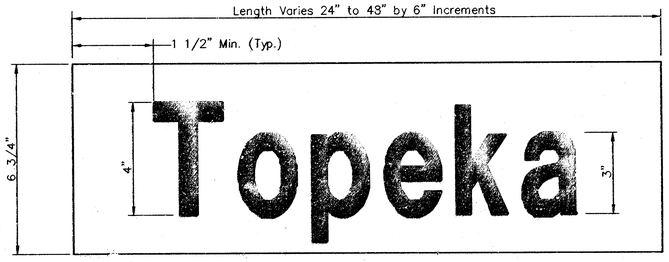
   MINIMUM BLADE LENGTH SHALL BE 24". MAXIMUM BLADE LENGTH SHALL BE 48". LENGTH VARIES BY INCREMENTS OF 6".

   BLADES BEARING THE STREET NAMES SHALL BE FIRMLY ATTACHED TO THE MOUNTING BRACKETS USING ALLEN-TYPE SET SCREWS. THE BLADES SHALL BE ORIENTED PARALLEL TO THE STREET.
7. MOUNTING BRACKETS FOR SIGNS: DIE-CAST ALUMINUM BRACKETS SHALL BE ALUMINUM ALLOY 360 HAVING A TENSILE STRENGTH OF 44,000 PSI. THE BRACKETS SHALL BE SMOOTHLY FINISHED FREE OF PITS, BURRS, AND FLAWS. EACH BRACKET SHALL BE TAPPED AND DRILLED FOR 5/16" ZINC-PLATED ALLEN-TYPE SET SCREWS HAVING SELF-LOCKING SAW-TOOTH ENDS.
8. FASTENERS: ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS.
9. REFLECTIVE SHEETING: REFLECTIVE SHEETING SHALL BE TYPE II - HIGH PERFORMANCE CLASS HA IN ACCORDANCE WITH SUBSECTION 2201 OF THE STANDARD SPECIFICATIONS.
10. PROCESS INK: ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.
11. DETAILS: REGULATORY AND WARNING SIGNS SHALL CONFORM TO THE DETAILS IN "STANDARD HIGHWAY SIGNS", FHWA, 1979.
12. DETAILS - SNS: THE REFLECTIVE SHEETING FOR THE 6 3/4" STANDARD SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGOUND WITH SILVER-WHITE #2 COPY WITH 4" UPPER CASE AND 3" LOWER CASE PRIMARY COPY AND SUFFIX COPY. BOTH SERIES "C". WHERE SUFFIX LETTERS ARE USED ON NUMBERED STREETS AS RD, TH, ETC., THEY SHALL BE 1 1/2" LOWER CASE SERIES "C" LETTERS. FACES TO TRIM TO A 6 1/4". (SEE DETAIL A.)

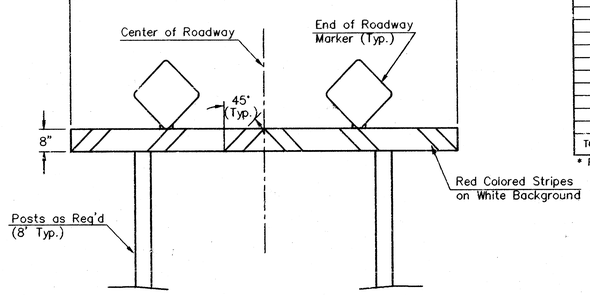
    THE REFLECTIVE SHEETING FOR THE 9" METRO SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVER-WHITE #2 COPY WITH 5" UPPER CASE AND 3 3/4" LOWER CASE PRIMARY COPY AND SUFFIX COPY, BOTH SERIES "C". WHERE SUFFIX LETTERS ARE USED ON NUMBERED STREETS, SUCH AS RD, TH, ETC., THEY SHALL BE 3" LOWER CASE SERIES "C". THE CARDINAL DIRECTION CENTERED DIRECTLY BELOW THE BLOCK NUMBER SHALL BE AN UPPER CASE, 3" SERIES "C" LETTER. FACES TO TRIM TO A 8 1/2" WIDTH. (SEE DETAIL B.)

    FOR CUL-DE-SAC STREETS, A 9" METRO SIZE BLADE SHALL BE USED WITH THE HOUSE NUMBERS DISPLAYED BENEATH THE STREET NAME. LETTERING TO BE THE SAME AS FOR THE 6 3/4" SIZE BLADE, EXCEPT THAT THE HOUSE NUMBER INFORMATION SHALL BE 3" SERIES "C".

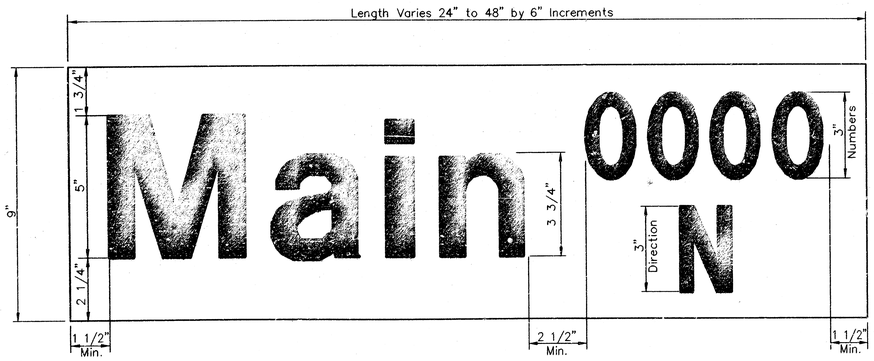
    SHOP DRAWINGS OF LAYOUT FOR SNS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING DIVISION OF THE CITY OF WICHITA FOR APPROVAL PRIOR TO FABRICATION. THE FINISHED SIGNS AS SUPPLIED SHALL BE OF GOOD APPEARANCE, FREE FROM RAGGED EDGES, CRACKS, SCALES OR BLISTERS AND SHALL BE CLEAN-CUT. SIGNS SHALL BE PACKED IN SUCH MANNER AS TO PREVENT DAMAGE OR DEFACEMENT DURING SHIPMENT OR STORAGE.
13. PERMANENT TRAFFIC CONTROL AND SNS: PERMANENT TRAFFIC CONTROL AND SNS SHALL BE MEASURED AND PAID FOR AT THE LUMP SUM PRICE FOR SIGNING. THE PAYMENT AS SET FORTH ABOVE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING, POSTS, ANCHORS, FASTENERS, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.



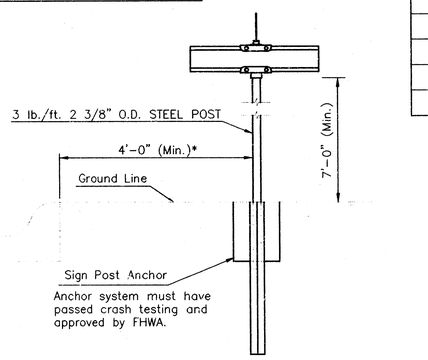
DETAIL A
6 3/4" STANDARD



TYPE I BARRICADE DETAIL W/ E.O.R. MARKER



DETAIL B
9" METRO



TYPICAL STREET NAME SIGN MOUNTING INSTALLATION
CURB AND GUTTER SECTION

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4601
(316) 268-4114 FAX

SIGNING DETAILS

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

PROJECT NUMBER	INDEX CODE
116-PPP	607879
DATE: FEB 95	SHEET 6 OF 9

44th STREET SOUTH
EARTHWORK CROSS SECTIONS
WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
E-mail srb@ idl.com
http://www.feld.com/~srb
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

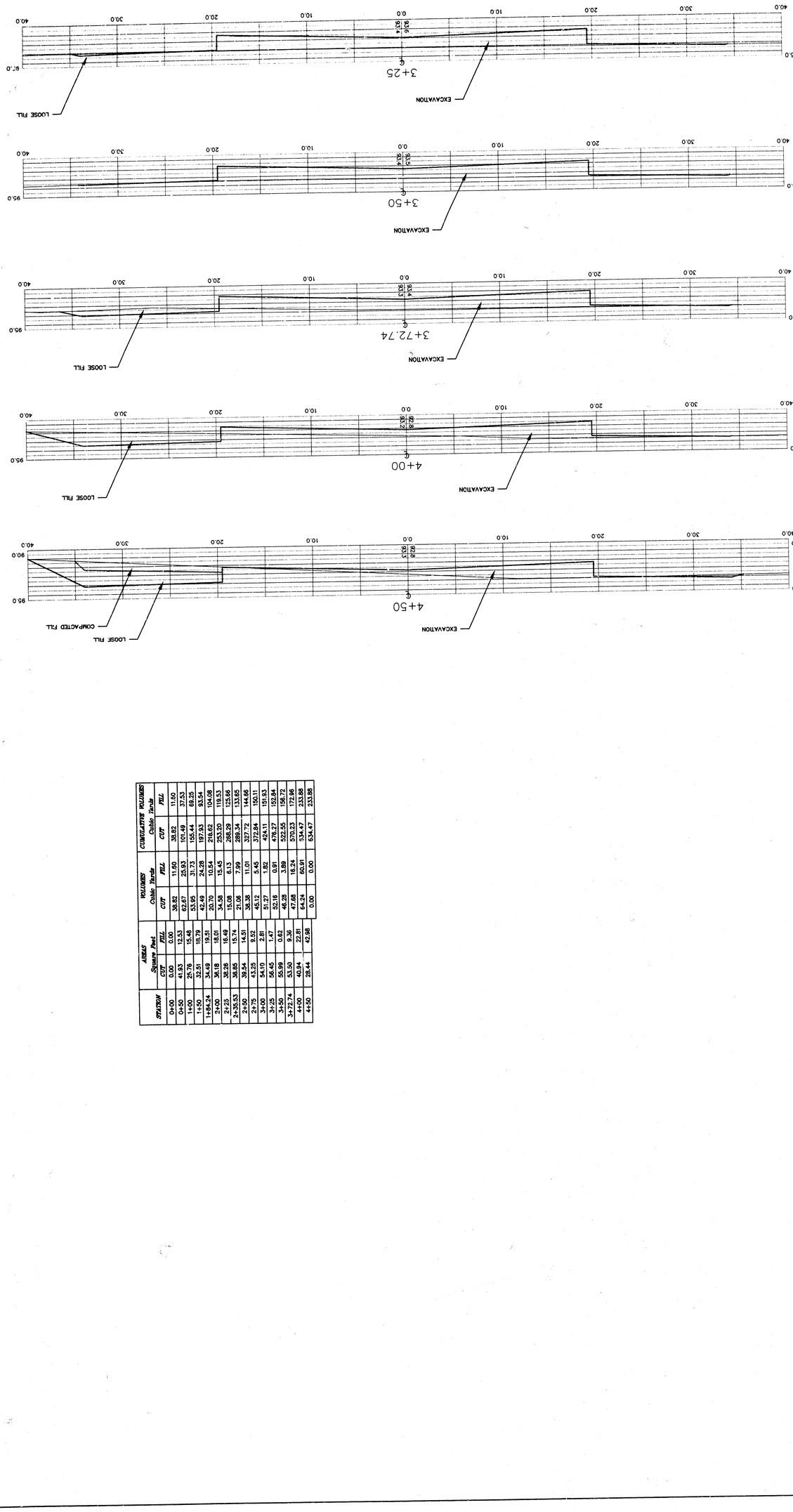
PROJECT NUMBER
116-PPP (607879)

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
JDS	JDS			Oct. 4, 1998	

Processing | CMD FILE

SHEET 7 OF 9

SRM1 JOB



STATION	AREAS Square Feet		VOLUMES Cubic Yards		CUMULATIVE VOLUMES Cubic Yards	
	CUT	FILL	CUT	FILL	CUT	FILL
0+00	0.00	0.00				
			38.82	11.60	38.82	11.60
0+50	41.93	12.53				
			82.67	25.93	101.49	37.53
1+00	25.76	15.48				
			53.95	31.73	155.44	69.25
1+50	32.51	16.79				
			42.49	24.28	197.93	93.54
1+84.24	34.49	16.51				
			20.70	10.54	218.62	104.08
2+00	36.18	18.01				
			34.58	15.45	253.20	119.53
2+25	38.26	16.48				
			15.08	6.13	268.29	125.66
2+36.53	38.85	15.74				
			21.06	7.99	288.34	133.65
2+50	39.44	14.51				
			38.38	11.01	327.72	144.66
2+75	43.25	9.52				
			48.12	5.45	372.84	150.11
3+00	54.10	2.81				
			51.27	1.82	424.11	151.93
3+25	56.45	1.47				
			32.16	0.89	456.27	152.84
3+50	55.99	0.62				
			46.28	3.80	502.55	156.72
3+72.74	53.50	9.38				
			47.68	16.24	570.23	172.96
4+00	40.94	22.81				
			64.24	60.91	534.47	233.88
4+50	28.44	42.98				
			0.00	0.00	634.47	233.88

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
E-mail: srb@feist.com
http://www.feist.com/~srb
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
116-PPP (607879)

DESIGN JDS | DRAWN JDS | UTILITY | REVIEW | DATE Oct. 1, 1998 | REVISED

44th STREET SOUTH
EARTHWORK CROSS SECTIONS
WICHITA, KANSAS

CADD FILE

SHEET 8 of 9

SHB JOB 10401

COTTONWOOD GROVE 3RD ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

State of Kansas) SS
Sedgwick County)

We, Savoy, Ruggles & Bohm, P.A., Surveyors in aforesaid county and state do hereby certify that, under the supervision of the undersigned, we have surveyed and platted "COTTONWOOD GROVE 3RD ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows:

The N1/2 of the SW1/4 of Sec. 13, Twp. 28-S, R-1-W of the 6th P.M., Sedgwick County, Kansas, except that part platted as Cottonwood Grove Addition, an Addition to Wichita, Sedgwick County, Kansa and except that part platted as Cottonwood Grove Second Addition, an Additon to Wichita, Seadgwick county, Kansas and except that part platted as James Place an Additon to the City of Wichta, Sedgwick County, Kansas.

Existing Public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Savoy, Rugglas & Bohm, P.A.

Date _____

_____ Surveyor
Mark A. Savoy RLS #788

Know all men by these presents that we, the undersigned have caused the land described in the surveyor's certificate to be platted into Lots, Blocks, Reserves and a Street to be known as "COTTONWOOD GROVE 3RD ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage easements are hereby granted for drainage purposes. Reserve "A" is hereby reserved for the construction and maintenance of all public utilities, drainage purposes and for private drive purposes to Lots 2, 3 and 4, Block B. Reserve "D" is hereby reserved for the construction and maintenance of all public utilities, drainage purposes and for private drive purposes to Lots 5, 6, 7 and 8, Block B. Reserves "B" and "C" are hereby reserved for lakes, drainage and drainage structures, open space, gazebos, picnic areas/tables with covered structures, irrigation, walks, lighting, landscaping and berms. Reserves "E" and "F" are hereby reserved for open space, gazebos, picnic areas/tables with covered structures, irrigation, walks, lighting, lanrscaping and berms. The Reserves shall be owned and maintained by the owner of Lots 2, 3, 4, 5, 6, 7 and 8, Block B. The Street is hereby dedicated to and for the use of the public. Access Controls are hereby granted to the City of Wichita (as indicated on the face of the plat). Minimum building pad elevations are as shown on the face of the plat.

_____ _____
Alan D. McClure Marilyn McClure

State of Kansas) SS
Sedgwick County)

The foregoing instrument acknowledged before me, this _____ day of _____ 1998, by Alan D. McClure and Marilyn McClure his wife.

_____ Notary Public

My App't. Exp. _____

This plat of "COTTONWOOD GROVE 3RD ADDITION", Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this ____ day of _____, 1998.

Wichita-Sedgwick County Metropolitan Area Planning Commission

_____ Chairman
Richard E. Lopez

_____ Secretary
Marvin S. Krout

This plat approved and all dedications shown hereon, accepted by the City Council of the City of Wichita, Kansas, this ____ day of _____, 1998.

_____ Mayor
Bob Knight

_____ City Clerk
Pat Burnett

Entered on transfer record this ____ day of _____, 1998.

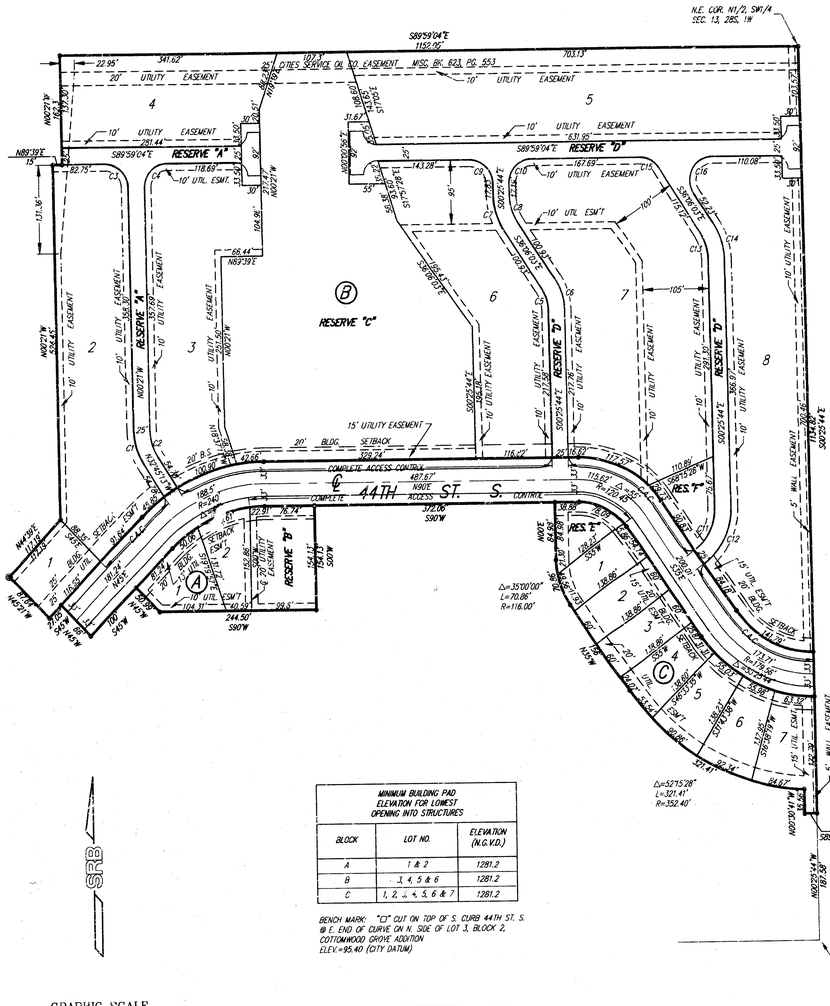
_____ County Clerk
James Alford

State of Kansas) SS
Sedgwick County)

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this ____ day of _____, 1998, at _____ o'clock __M: and is duly recorded.

_____ Register of Deeds
Bill Meek

_____ Deputy
Linda Kizzire



SRB

GRAPHIC SCALE

100 0 100 200
(IN FEET)
1 inch = 100 ft.

C.A.C. = COMPLETE ACCESS CONTROL

● = 1/2" REBAR W/SRB CAP (SET)

○ = 1/2" IRON PIPE (FOUND)

◎ = 3/4" IRON PIPE (FOUND)

● = 1/2" REBAR W/CAP (FOUND)

MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING INTO STRUCTURES

BLOCK	LOT NO.	ELEVATION (N.G.V.D.)
A	1 & 2	1281.2
B	1, 4, 5 & 6	1281.2
C	1, 2, 4, 5, 6 & 7	1281.2

BENCH MARK: "□" CUT ON TOP OF S. CURB 44TH ST. S. @ E. END OF CURVE ON N. SIDE OF LOT 3, BLOCK 2, COTTONWOOD GROVE ADDITION
ELEV.=95.40 (CITY DATUM)

CURVE TABLE

REF.	LEN	RAD	DELTA	TAN
C1	56.55'	100'	32°24'13"	29.06'
C2	42.42'	75'	32°24'13"	21.79'
C3	54.75'	35'	89°38'04"	34.78'
C4	55.20'	35'	90°21'56"	35.22'
C5	34.62'	60'	33°03'41"	17.81'
C6	49.05'	85'	33°03'41"	25.23'
C7	58.48'	100'	33°30'20"	30.10'
C8	43.86'	75'	33°30'20"	22.58'
C9	54.71'	35'	89°33'21"	34.73'
C10	55.25'	35'	90°26'39"	35.27'
C11	72.99'	75.44'	55°25'44"	39.63'
C12	97.17'	100.44'	55°25'44"	52.77'
C13	43.28'	75'	33°03'41"	22.26'
C14	57.70'	100'	33°03'41"	29.68'
C15	34.51'	35'	56°29'40"	18.80'
C16	75.45'	35'	123°30'20"	65.15'

COTTONWOOD GROVE 3RD ADDITION
FINAL PLAT
WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.feist.com/~srb
316-264-8008
FAX 264-4521
E-mail: srb@feist.com
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
116-PPP (607879)

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
JDS	JDS			Oct. 4, 1998	

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CERT. PDS 10461
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