

CITY OF WICHITA, SEDGWICK COUNTY, KANSAS

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

STREET IMPROVEMENTS

- VALLEYVIEW - FROM THE INTERSECTION OF 19TH STREET TO THE S.L. OF LOT 59, BLOCK 1,
AND THE S.L. OF LOT 18, BLOCK 7, SERVING LOTS 20, 21, & 38, BLOCK 5,
AND LOT 18, BLOCK 7.
- BELLA VISTA - FROM THE E.L. OF VALLEYVIEW TO THE N.L. OF LOT 44, BLOCK 1, AND THE
N.L. OF LOT 11, BLOCK 4, SERVING LOTS 44 THROUGH 58 AND LOT 60,
BLOCK 1, AND LOTS 11 THROUGH 21, BLOCK 4.

IN

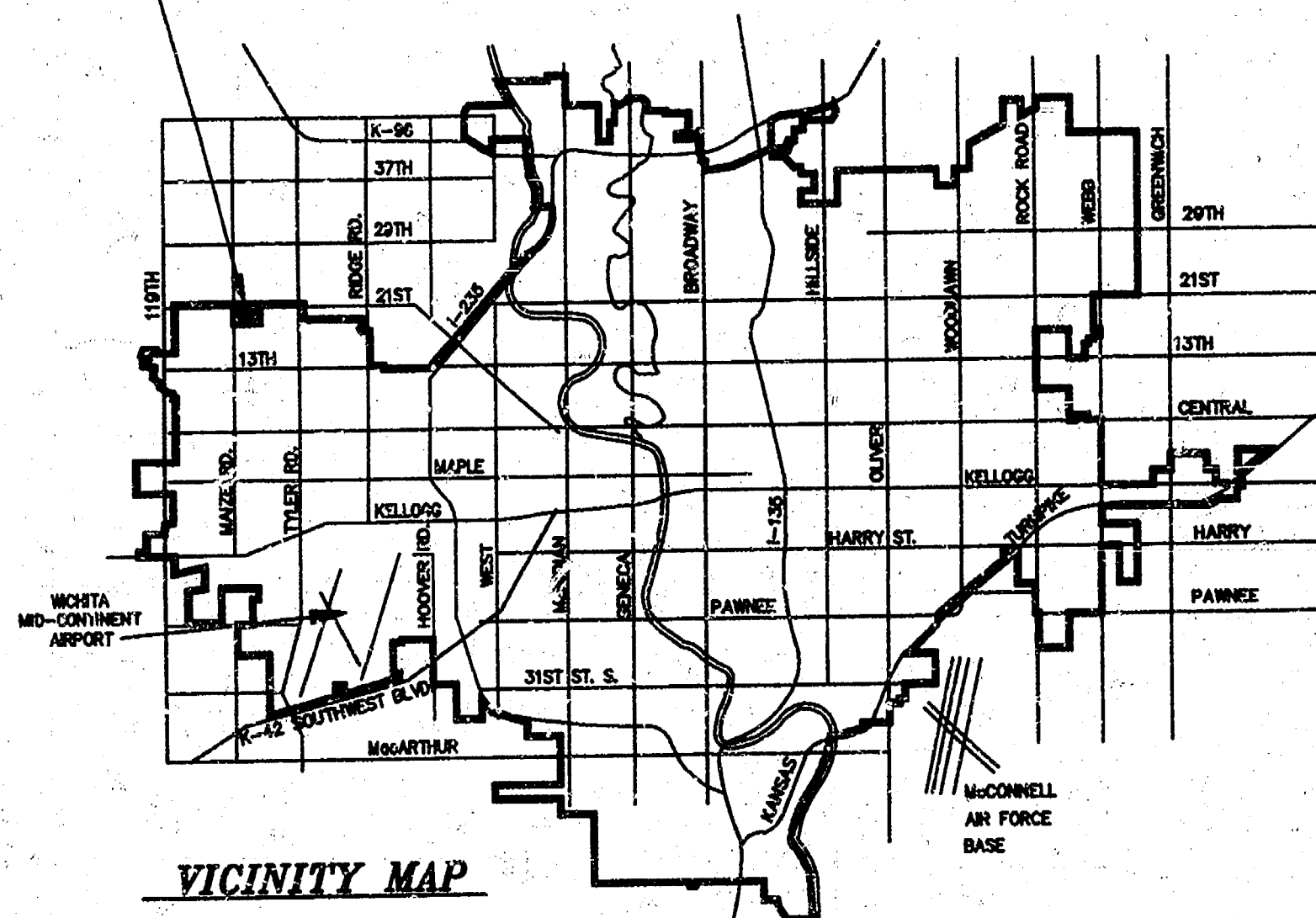
GRAF-GOLDSTON ADDITION - PHASE 2B

CITY OF WICHITA PROJECT NO. 472-82282

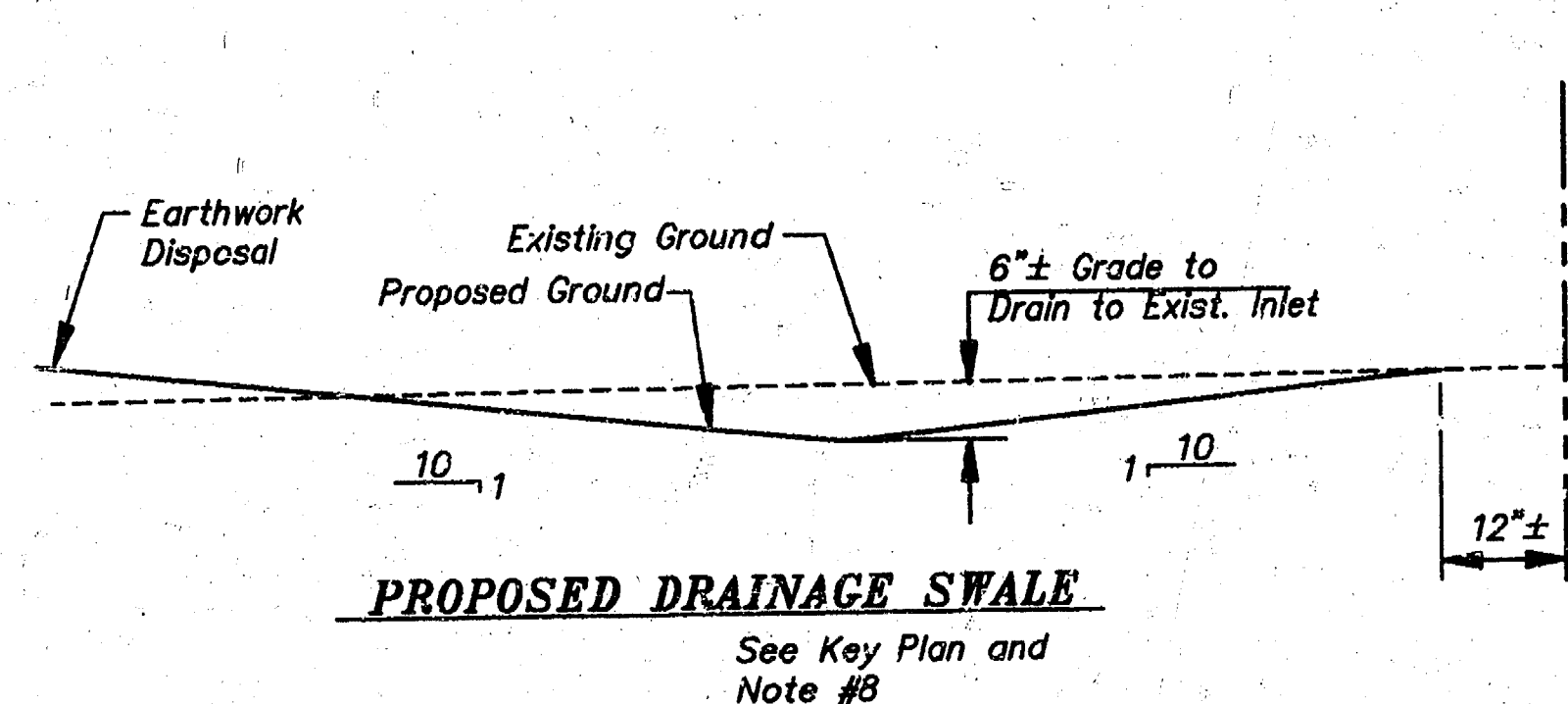
INDEX NO. 761767

PROJECT SITE

GRAF - GOLDSTON ADDITION
IN WICHITA, SEDGWICK CO., KANSAS



VICINITY MAP



PROPOSED DRAINAGE SWALE

See Key Plan and
Note #8

PROJECT SURVEY CONTROL

VERTICAL DATUM: CITY OF WICHITA DATUM

BENCH MARK: CHISELED "C" ON TOP OF CURB AT
NORTHWEST COR. LOT 31, BLOCK 1,
GRAF-GOLDSTON ADDITION ELEV. = 157.95

BENCH MARK: CHISELED "C" ON TOP OF CURB AT
SOUTHWEST COR. LOT 59, BLOCK 1,
GRAF-GOLDSTON ADDITION ELEV. = 158.16

EARTHWORK

STREET EXCAVATION

EXCAVATION 3425.2 CU. YDS.
LOOSE FILL 146.2 CU. YDS.
COMPACTED FILL 226.4 CU. YDS.

TOTAL PROJECT LENGTH = 1589 LF

EARTHWORK
DISPOSAL
AREAS

EXISTING
BEEHIVE
INLET

PROPOSED
DRAINAGE
SWALE
See Note #8

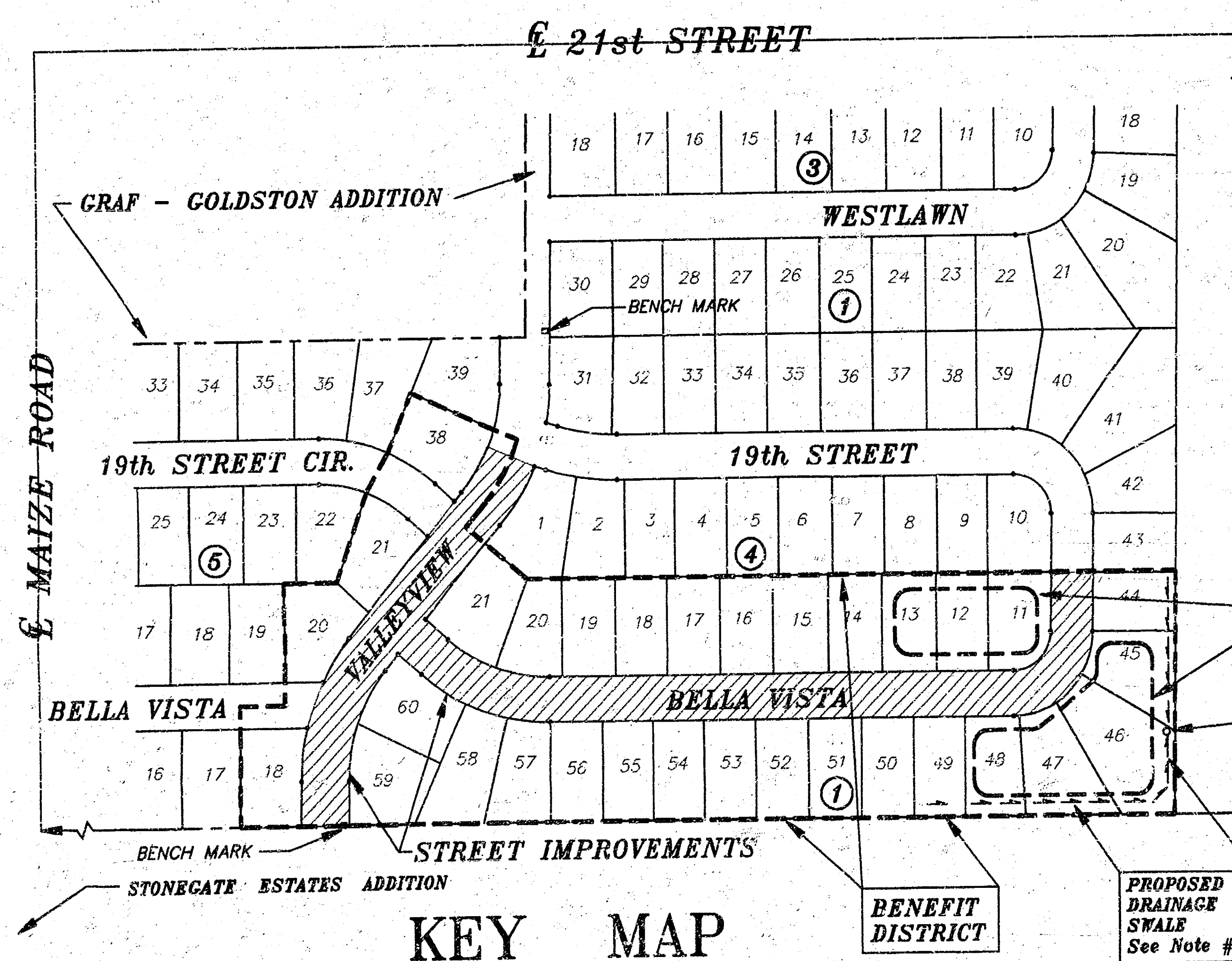
APRIL 1993
PLANS PREPARED BY
TERRA TECH, INC.
WICHITA, KANSAS

INDEX OF SHEETS

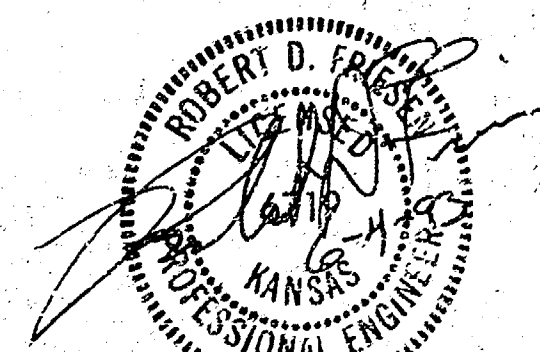
1. TITLE SHEET
2. PLAT
3. TYPICAL SECTION 25' STREET
4. TYPICAL SECTION 28' STREET
5. TYPICAL SECTION 37' STREET
6. STREET SIGNS
7. VALLEYVIEW STREET PLAN (1 of 2)
8. VALLEYVIEW STREET PLAN (2 of 2)
9. ENLARGED INTERSECTION DETAILS
10. BELLA VISTA STREET PLAN (1 of 2)
11. BELLA VISTA STREET PLAN (2 of 2)
12. VALLEYVIEW CROSS SECTIONS (1 of 2)
13. VALLEYVIEW CROSS-SECTIONS (2 of 2)
14. BELLA VISTA CROSS-SECTIONS (1 of 2)
15. BELLA VISTA CROSS-SECTIONS (2 of 2)

GENERAL NOTES

1. 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, ARKLA GAS SERVICE, K.C. & E., SOUTHWESTERN BELL TELEPHONE, CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.
2. UNDERGROUND UTILITY SERVICE LINES, UTILITY POLES, ETCETERA 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.
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. SAID JOINT TO FACILITATE REMOVAL WITHIN THREE (3) FEET OF AN 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. CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.
6. TEMPORARY SURFACING MATERIAL (ROCK, ASPHALT, ETC.) MAY HAVE BEEN PLACED WITHIN STREET RIGHT-OF-WAY FOR HAUL ROADS AND TEMPORARY ACCESS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXTENT, IF ANY, OF SUCH SURFACING. CONTRACTOR SHALL REMOVE SAID TEMPORARY SURFACING IN THE SAME MANNER AS NOTED ABOVE FOR RUBBLE. THIS REMOVAL SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
7. EXCESS EXCAVATION FROM THE CONSTRUCTION SHALL BE STOCK PILED IN AREAS DESIGNATED AS "EARTHWORK DISPOSAL AREAS" ON THE KEY MAP. EARTHWORK SHALL BE PILED NO HIGHER THAN TWO (2) FEET IN HEIGHT. GRADE STOCK PILES WITH GENTLE SIDE SLOPES AND IN A WELL DRAINED NEAT CONDITION. STOCK PILES THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.
8. CONTRACTOR TO GRADE DRAINAGE SWALE (SEE SECTION THIS SHEET) ACROSS REAR OF LOTS 44 THRU 49, BLOCK 1, TO DRAIN TO EXISTING BEEHIVE INLET. COST FOR THIS ITEM SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER PAY ITEMS OF WORK.
9. NOT MORE THAN ONE DRIVE APPROACH, 18' WIDE, SHALL BE CONSTRUCTED WITH THIS PROJECT.
10. 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.
11. CONTRACTOR SHALL GIVE PROPERTY OWNERS ABUTTING THIS PROJECT AN OPPORTUNITY TO UTILIZE EXCESS EXCAVATED MATERIAL FROM THE PROJECT TO REGRADE THEIR YARDS TO DRAIN TO THE NEW PAVEMENT. CONTRACTOR WILL BE REQUIRED TO DUMP AND SPREAD THE EXCESS MATERIAL AS REQUIRED BY THE SPECIFICATIONS WHEN REQUESTED BY THE PROPERTY OWNER. THE CONTRACTOR SHALL ASCERTAIN THAT A DIRT ORDER FORM HAS BEEN PROPERLY EXECUTED BY THE PROPERTY OWNER BEFORE ANY SUCH EXCESS MATERIAL IS DELIVERED TO SUCH PROPERTIES.
12. 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.
13. 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.
14. THE CONTRACTOR SHALL ADJUST WATER VALVE BOXES AS DIRECTED BY THE ENGINEER. THIS WORK TO BE SUBSIDIARY TO OTHER BID ITEMS.
15. THIS PROJECT INCLUDES AN ALTERNATE TYPICAL SECTION CONSISTING OF AN ASPHALT PAVEMENT OVER A TREATED SUBGRADE. THE ENGINEER MAY REQUIRE USE OF THE ALTERNATE CONSTRUCTION TYPE IN LIEU OF ASPHALT PAVEMENT OVER A FABRIC-REINFORCED CRUSHED-ROCK BASE. THE CONTRACTOR SHALL BID ALL BASE BID ITEMS AND ALTERNATE ITEMS, AND THE FINAL SELECTION OF CONSTRUCTION TYPE SHALL BE MADE BY THE ENGINEER AT THE TIME OF CONSTRUCTION. THE TYPE SELECTED BY THE ENGINEER SHALL BE USED FOR THE ENTIRE PROJECT. EARTHWORK QUANTITIES SHOWN ON THE PLANS WERE CALCULATED BASED ON USE OF A FABRIC-REINFORCED CRUSHED-ROCK BASE. ANY DIFFERENCE IN EARTHWORK BETWEEN THE TWO ALTERNATES SHALL BE SUBSIDIARY TO SUBGRADE MANIPULATION.
16. THE CONTRACTOR WILL BE PERMITTED TO BID ONLY ONE OF THE ALTERNATE TYPES OF SUBGRADE TREATMENT. THE TYPE BID BY THE SUCCESSFUL BIDDER WILL BE THE TYPE OF SUBGRADE TREATMENT USED TO CONSTRUCT THE PROJECT.



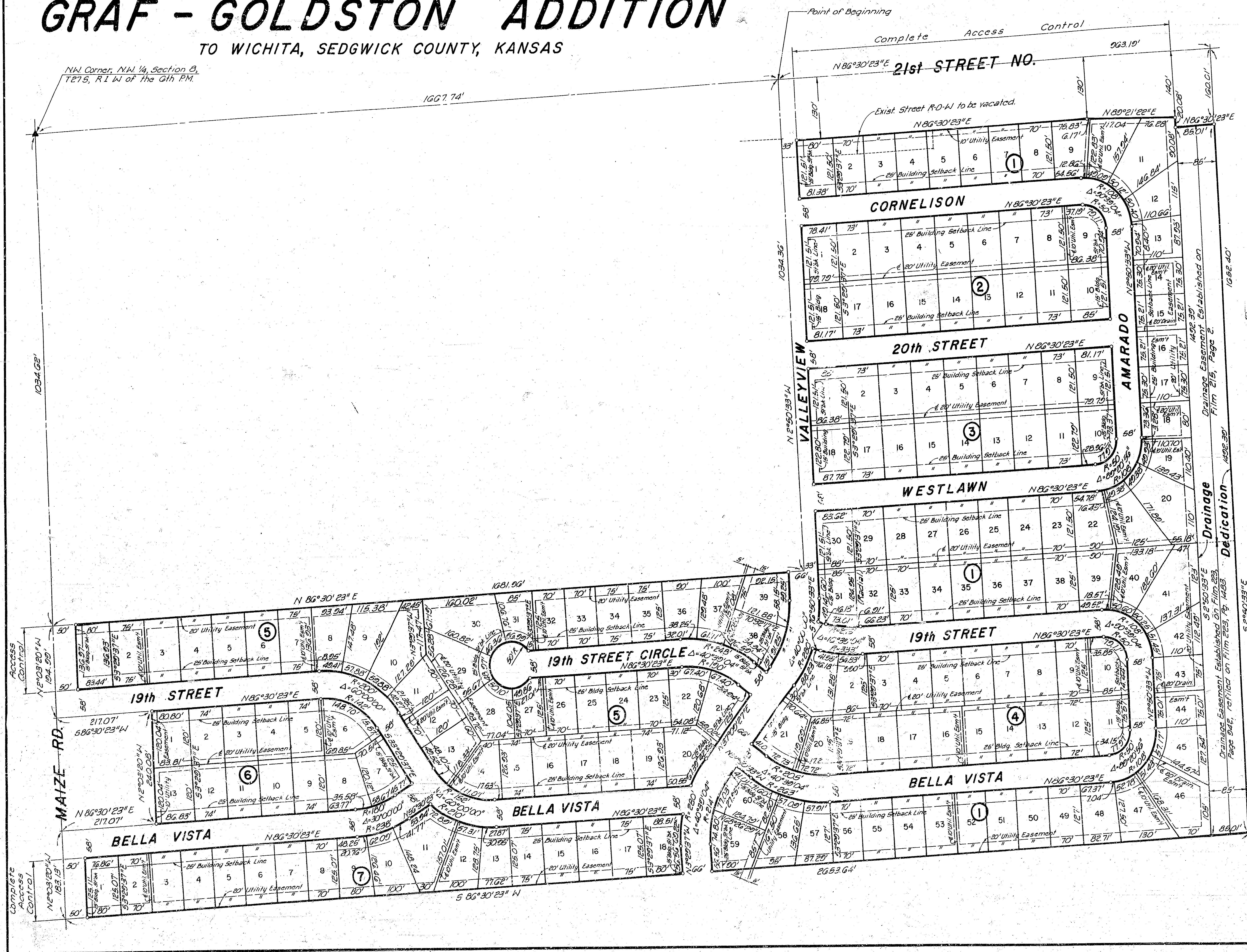
KEY MAP



GRAF - GOLDSTON ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

N.W. Corner, N.W. $\frac{1}{4}$, Section 8,
T27S, R1W of the 6th P.M.

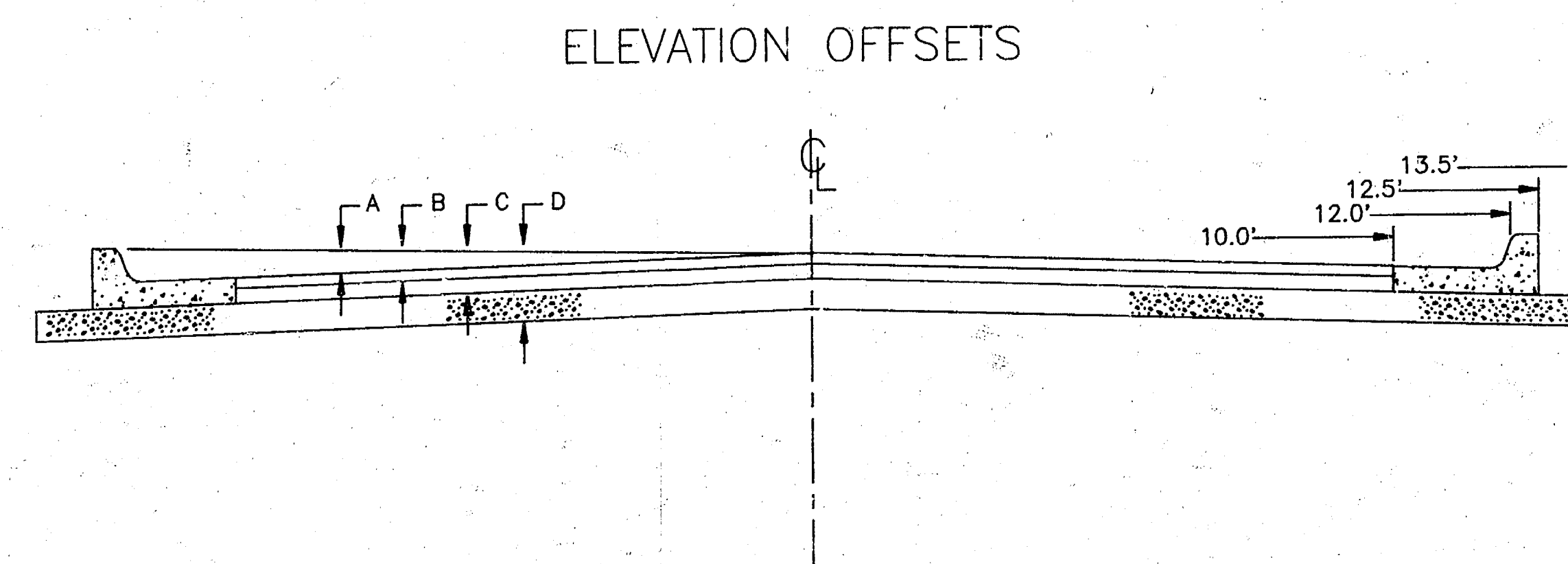
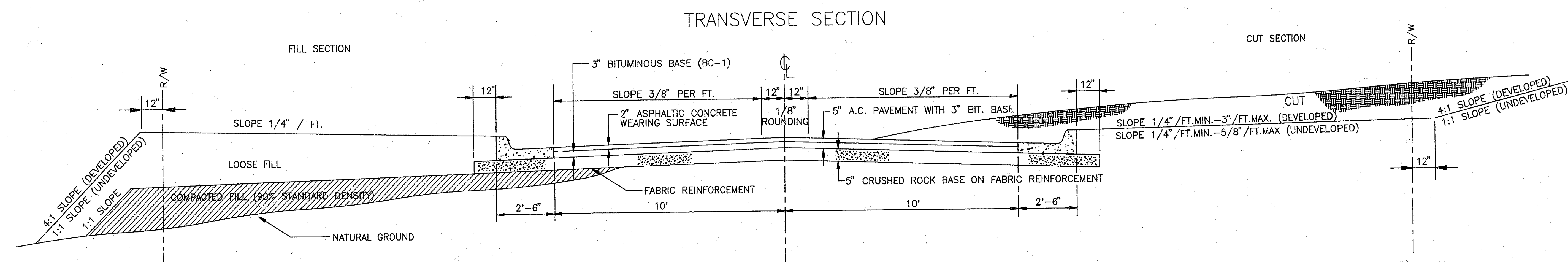


Scale: 1"=100'
August 14, 1984

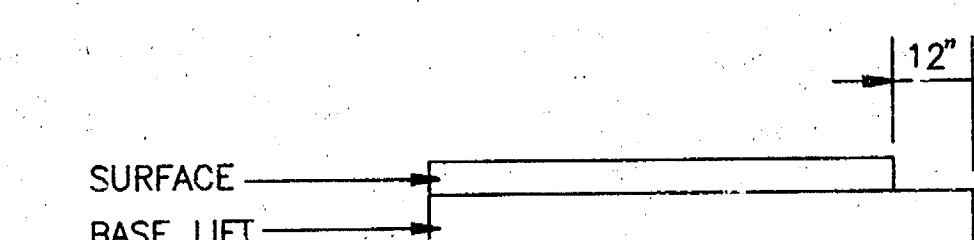
Bench Mark - City of Wichita
B.M. Disc 64' east & 90'
south of E's Maize Rd.
& 21st St. No.
E1. 1351. 70 MSL

No.	Revision	By	Date
CITY OF WICHITA, KANSAS GRAF - GOLDSTADT ADDITION PLAT Michael E. Lindeborg, P.E. — City Engineer City of Wichita Project No. <u>472-76-245-82262-000-000-000</u> TerraTech Inc. ENGINEERING + SURVEYING P.O. Box 244 4020 West 10th Street Wichita, KS 67201 (316) 946-0332			
Designed by	Job No.	Sh. T. of	
Drawn by DRS	Date October 29, 1992	15	

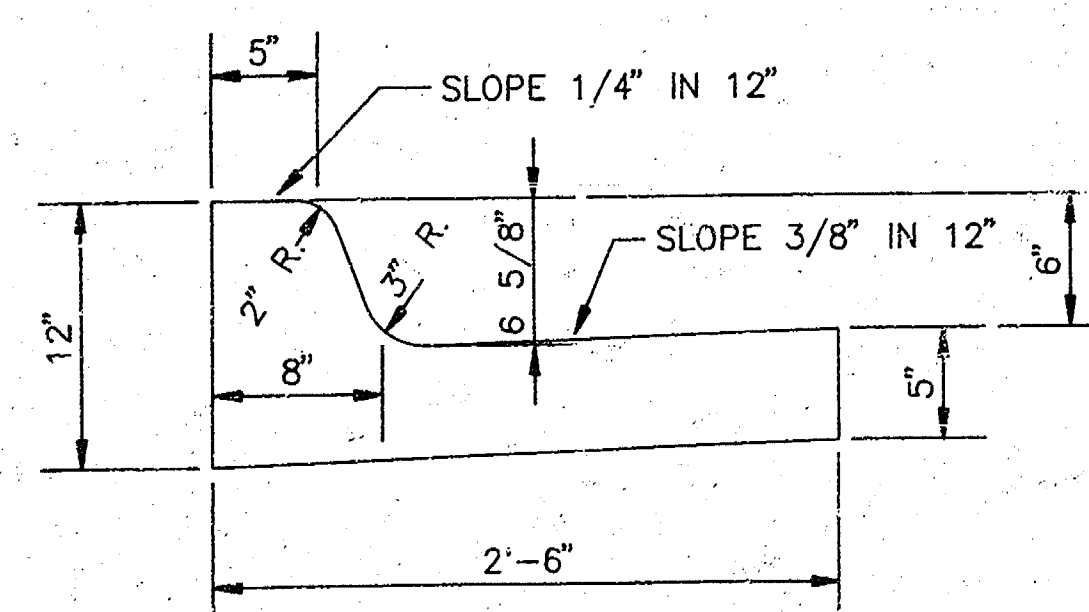
TYPICAL 25' PAVEMENT DETAILS



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.



COMBINED CURB & GUTTER



	DISTANCE FROM CENTERLINE (LT. & RT.)									
	0'	2'	4'	6'	8'	10'	12'	12.5'	13.5'	
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.20	.25	.31	.37	.43	.50	---	---	---	---
B: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.37	.41	.48	.54	.60	.66	---	---	---	---
C: TOP OF CURBS TO TOP OF CRUSHED ROCK	.62	.66	.73	.79	.85	.91	.98	1.00	1.02	
D: TOP OF CURBS TO TOP OF FABRIC REINFORCEMENT	1.04	1.08	1.14	1.21	1.27	1.33	1.39	1.41	1.44	

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 PAVEMENT (3" BITUMINOUS BASE)

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.

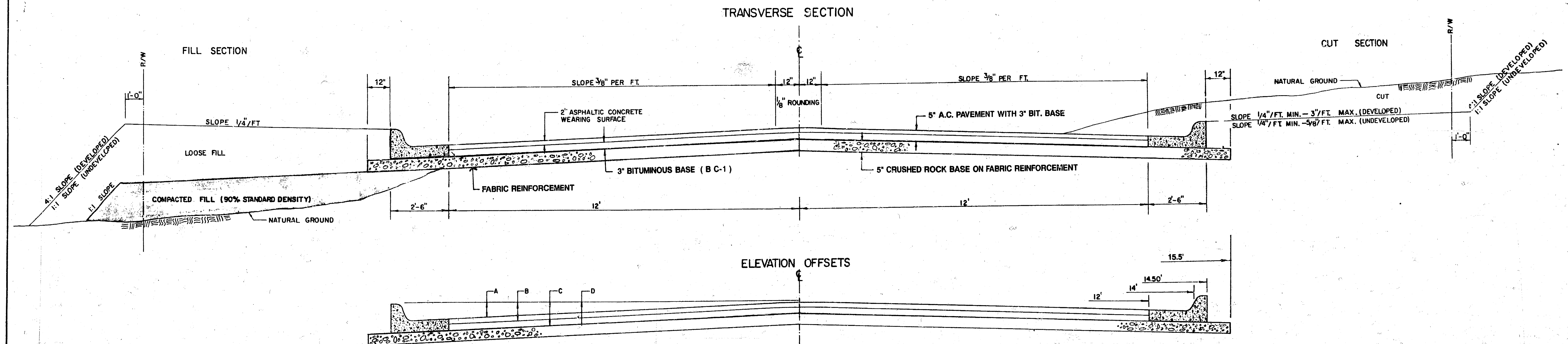
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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.

SHEET
3
OF
15

5" RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH CRUSHED ROCK BASE ON FABRIC REINFORCEMENT

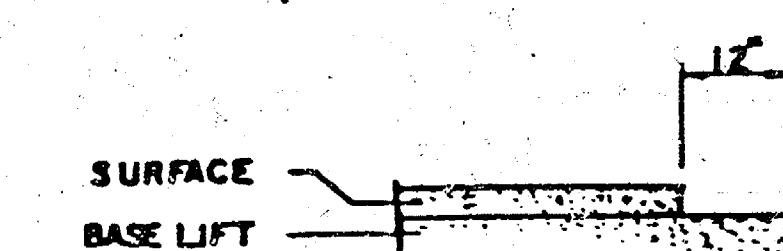
TYPICAL 29' PAVEMENT DETAILS



	DISTANCE FROM CENTERLINE (LT. & RT.)										
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'	
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.47	0.52	0.60	0.68	0.71	0.75	0.83	0.90	0.98	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE											

FABRIC BASE REINFORCEMENT SHALL BE 9X1100 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 N. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

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 PAVEMENT (3" BITUMINOUS BASE)

GENERAL NOTES

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.

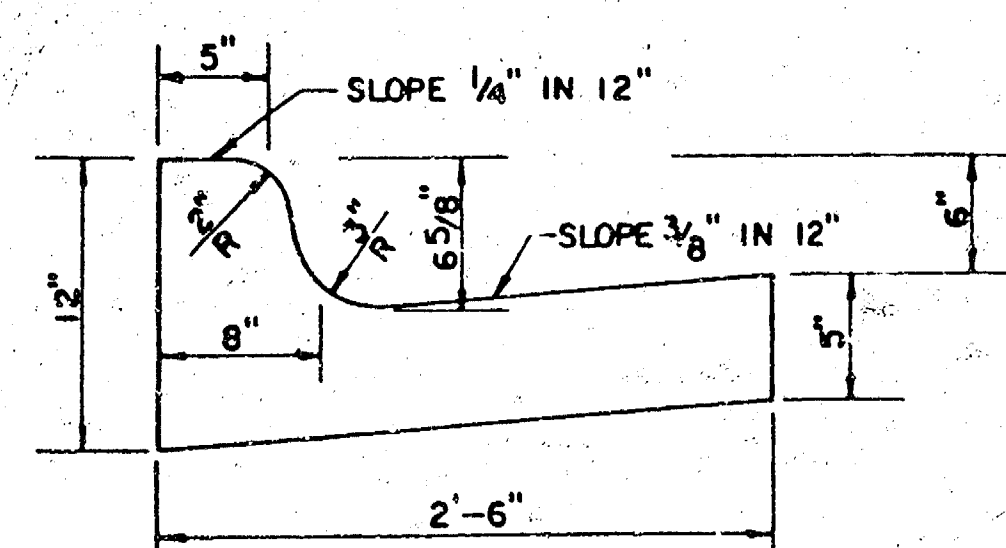
City of Wichita Project No. 472-82282

SHEET
4
OF
15

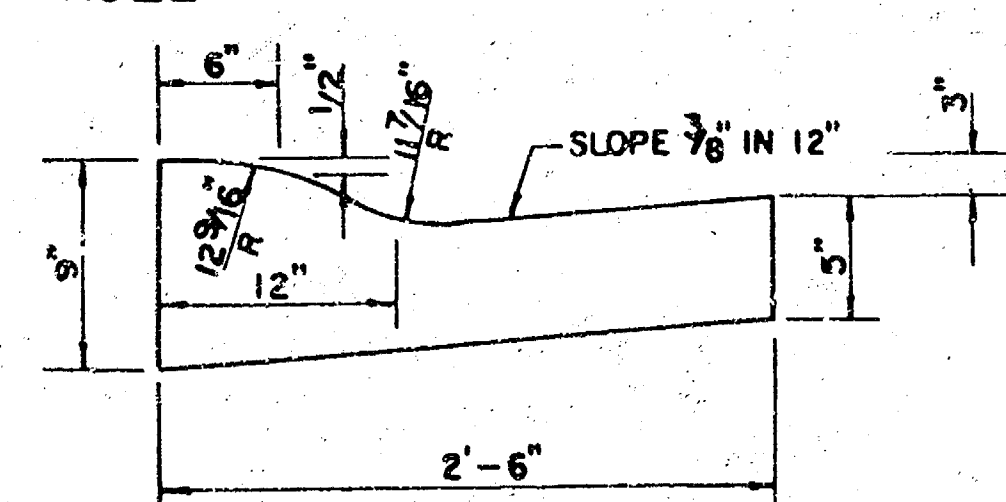
5" RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH CRUSHED ROCK BASE
ON FABRIC REINFORCEMENT

10 1 5 31

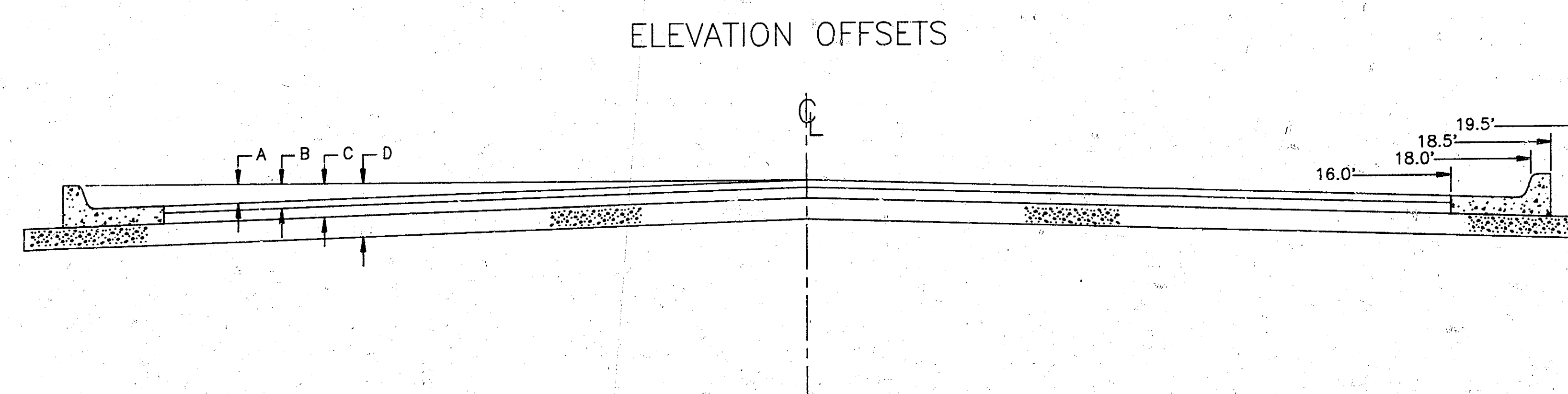
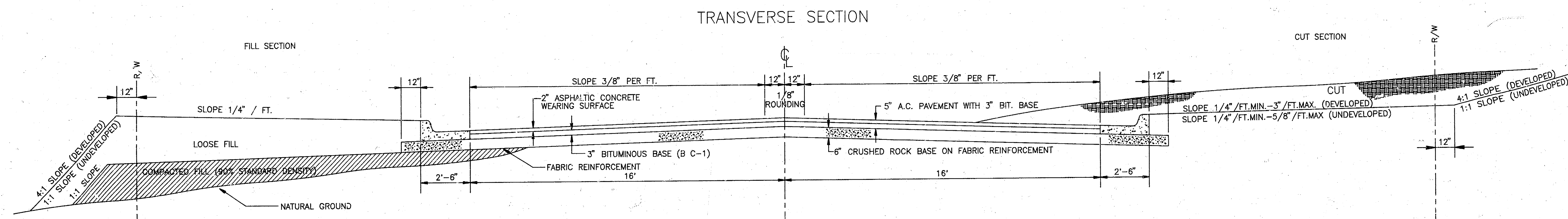
COMBINED CURB & GUTTER



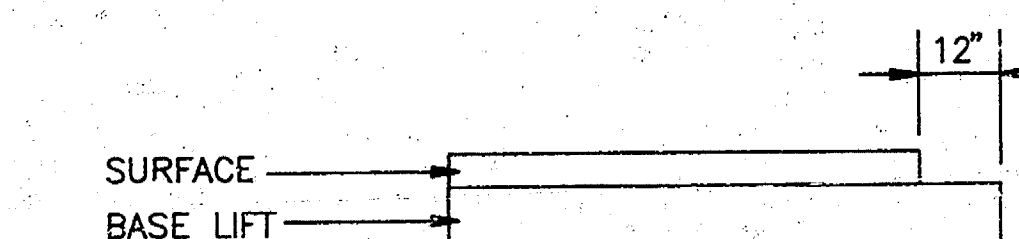
ROLL TYPE COMBINED CURB & GUTTER



TYPICAL 37' PAVEMENT DETAILS



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.



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 PAVEMENT (3" BITUMINOUS BASE).

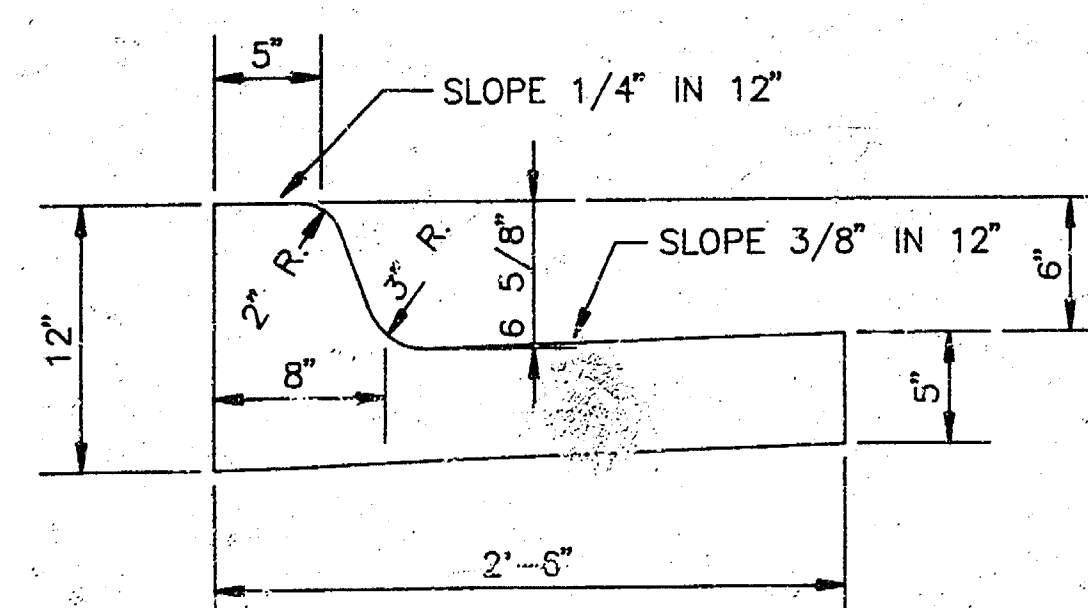
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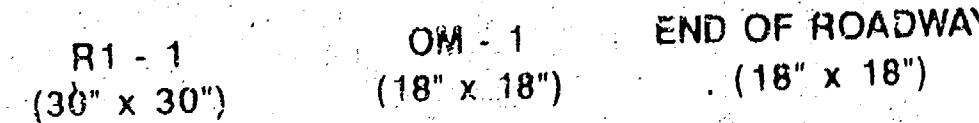
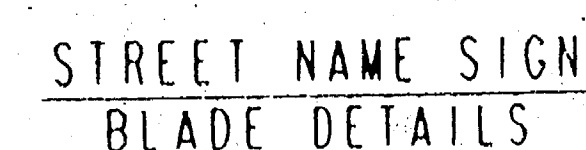
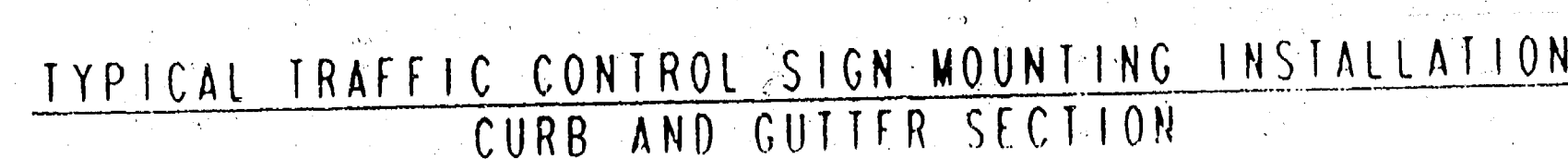
CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

COMBINED 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	.01	.05	.11	.18	.24	.30	.36	.43	.49	---	---	---
B: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.17	.22	.28	.34	.40	.47	.53	.59	.65	---	---	---
C: TOP OF CURBS TO TOP OF CRUSHED ROCK	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	1.01
D: TOP OF CURBS TO TOP OF FABRIC REINFORCEMENT	.92	.97	1.03	1.09	1.15	1.22	1.28	1.34	1.4	1.47	1.48	1.51

City of Wichita Project No. 472-82282



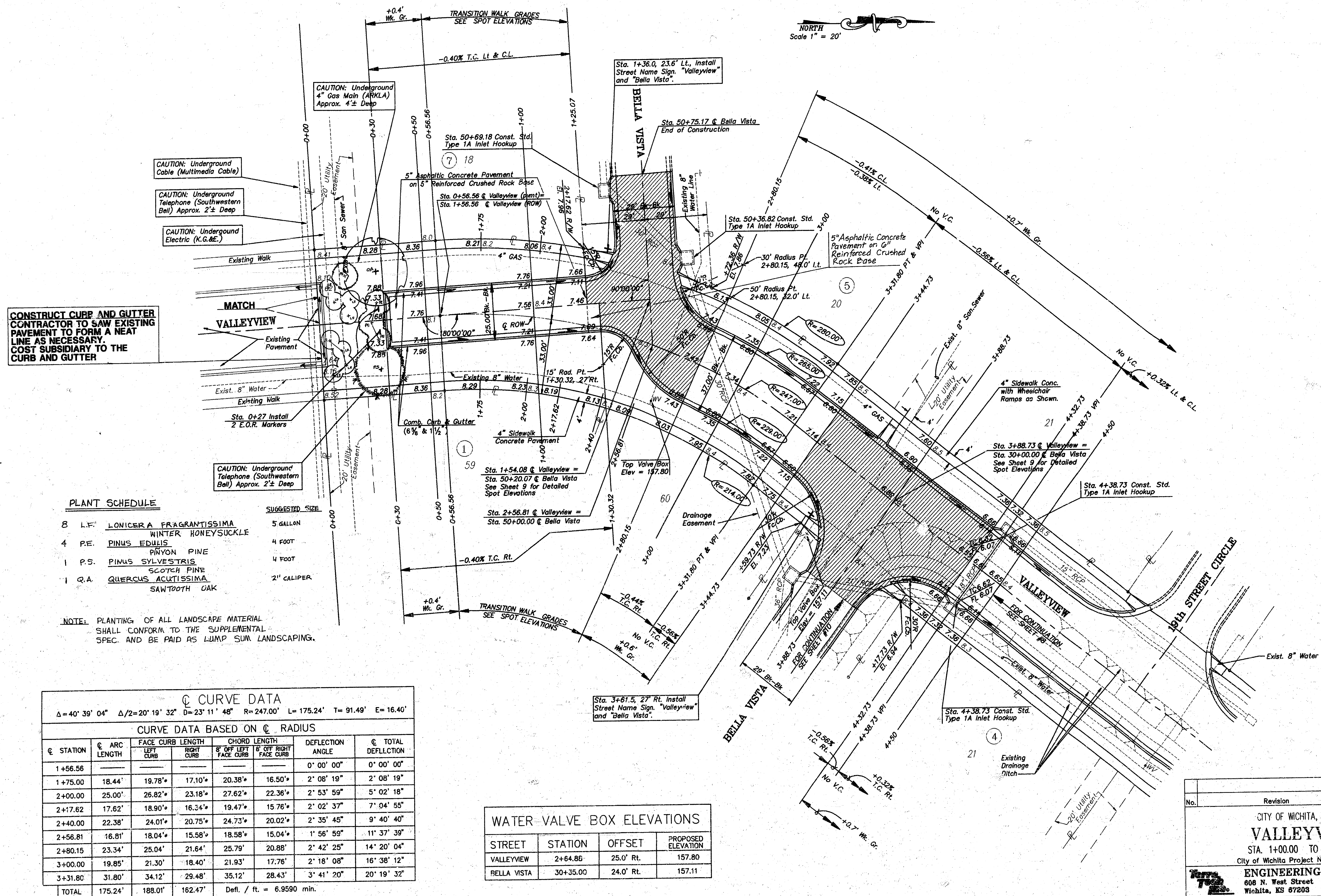
TOTAL
* FOR INFORMATION ONLY

GENERAL NOTES - SIGNING

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 WELDING 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 3.65 LBS./FOOT. POSTS SHALL BE POSITIONED SO THAT THE BOTTOM BLADE IS 7 FEET ABOVE GRADE.
4. 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.
5. SIGN BLADES FOR STREET NAME SIGNS. EXTRUDED ALUMINUM BLADES SHALL BE ALUMINUM ALLOY CONFORMING TO 6063 T6 OR 5052 H38 (ASTM SPECIFICATION 8221, LATEST ISSUE). BLADES SHALL HAVE AN ALDINE OR PHOSPHATE ETCHED FINISH. BLADES SHALL HAVE SQUARE CORNERS AND NO HOLES.
- 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.
6. 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, BUBBS, AND FLAWS. EACH BRACKET SHALL BE TAPPED AND DRILLED FOR 5/16" ZINC-PLATED ALLEN-TYPE SET SCREWS HAVING SELF-LOCKING SAW-TOOTH ENDS.
7. FASTENERS. ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1514 OF THE STANDARD SPECIFICATIONS.
8. REFLECTIVE SHEETING. REFLECTIVE SHEETING SHALL BE TYPE II - HIGH PERFORMANCE CLASS HA IN ACCORDANCE WITH SUBSECTION 2201 OF THE STANDARD SPECIFICATIONS.
9. PROCESS INK. ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.
10. DETAILS. REGULATORY AND WARNING SIGNS SHALL CONFORM TO THE DETAILS IN "STANDARD HIGHWAY SIGNS", FHWA, 1979.
11. DETAILS - SNS. THE REFLECTIVE SHEETING FOR THE 6 3/4" STANDARD SIZE SNS IS TO BE THE HIGHWAY GREEN REVERSE SCREENED BACKGROUND 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 PRIMARY COPY "C" LETTERS. FACES TO TRIM TO A 8 1/4" (SEE DETAIL A).
- THE REFLECTIVE SHEETING FOR THE 9" METRO SIZE SNS IS TO BE THE HIGHWAY GREEN REVERSE SCREENED 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 BEHIND 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 CURB-SIDE 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 BUSTERS AND SHALL BE CLEAN CUT. SIGNS SHALL BE PACKED IN SUCH A MANNER AS TO PREVENT DAMAGE OR DEFACEMENT DURING SHIPMENT OR STORAGE.
12. NEW TRAFFIC CONTROL AND STREET NAME SIGNS. NEW TRAFFIC CONTROL AND STREET NAME SIGNS 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, POST ANCHORS, FASTENERS, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

PROJECT DESCRIPTION	
SIGNING DETAILS	
PROJECT NUMBER 472-82282	
SCALE: NONE	DATE: JUNE '9
DRAWN BY:	REVISED
CITY OF WICHITA	
DEPARTMENT OF PUBLIC WORKS	
TRAFFIC ENGINEERING SECTION	SH 6 OF 15



CONSTRUCT CURB AND GUTTER CONTRACTOR TO SAW EXISTING PAVEMENT TO FORM A NEAT LINE AS NECESSARY. COST SUBSIDIARY TO THE CURB AND GUTTER

PLANT SCHEDULE

		SUGGESTED SIZE
8 L.F.	LONICERA FRAGRANTISSIMA	5 GALLON
	WINTER HONEYSUCKLE	
4 P.E.	PINUS EDULIS	4 FOOT
	PINYON PINE	
1 P.S.	PINUS SYLVESTRIS	4 FOOT
	SCOTCH PINE	
1 Q.A.	QUERCUS ACUTISSIMA	2" CALIPER
	SAWTOOTH OAK	

NOTE: PLANTING OF ALL LANDSCAPE MATERIAL SHALL CONFORM TO THE SUPPLEMENTAL SPEC. AND BE PAID AS LUMP SUM LANDSCAPING.

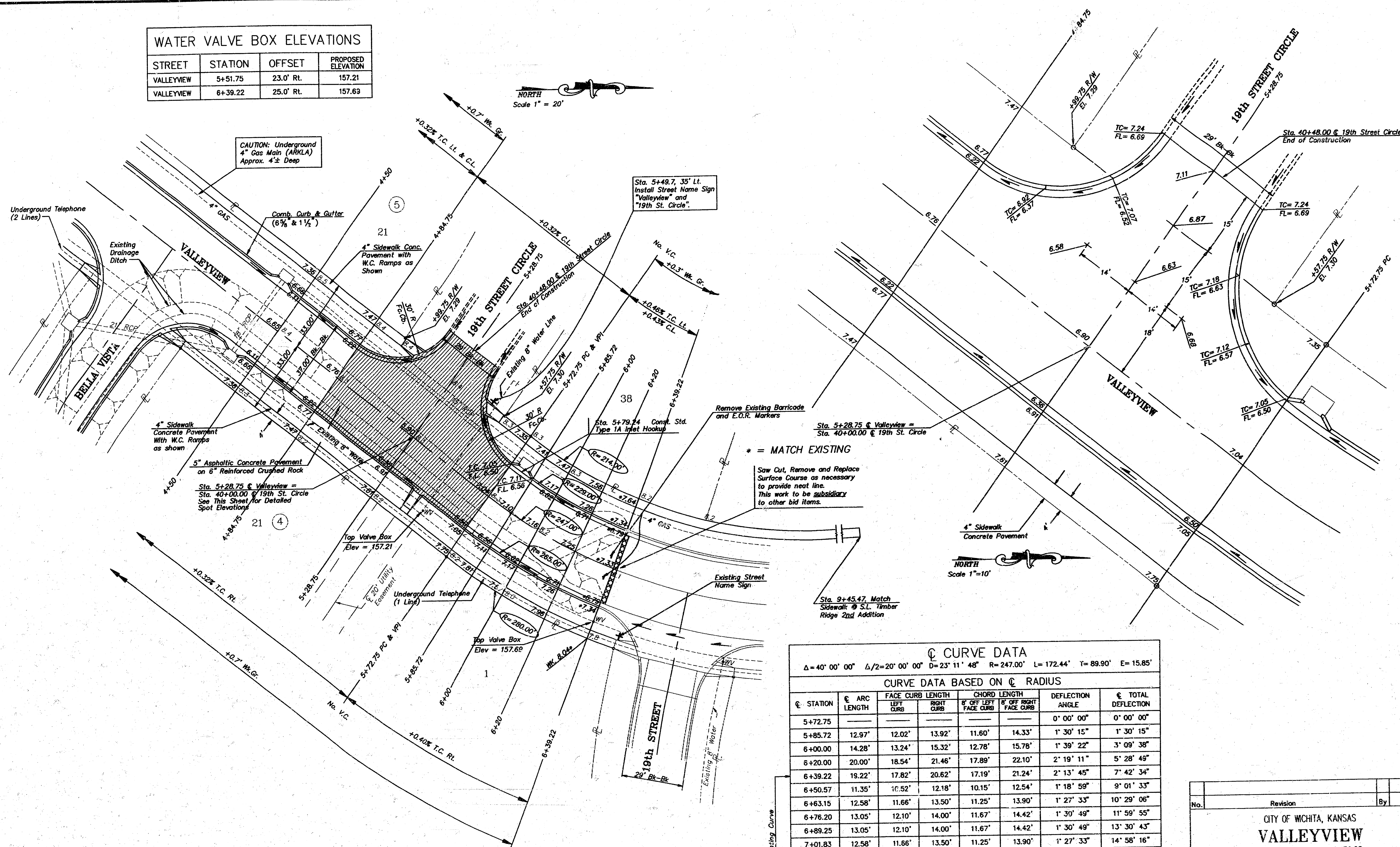
C CURVE DATA							
Δ = 40° 39' 04" Δ/2 = 20° 19' 32" D = 23' 11' 48" R = 247.00' L = 175.24' T = 91.49' E = 16.40'							
CURVE DATA BASED ON C RADIUS							
C STATION	C ARC LENGTH	FACE CURB LENGTH	CHORD LENGTH	DEFLECTION ANGLE	C TOTAL DEFLECTION		
1+56.56	18.44'	19.78'	20.38'	0° 00' 00"	0° 00' 00"		
1+75.00	25.00'	26.82'	27.62'	2° 08' 19"	2° 08' 19"		
2+00.00	17.62'	18.90'	19.47'	2° 02' 37"	7° 04' 58"		
2+17.62	22.38'	24.01'	24.73'	2° 35' 45"	9° 40' 40"		
2+40.00	16.81'	18.04'	18.58'	1° 56' 59"	11° 37' 39"		
2+56.81	23.34'	25.04'	25.79'	2° 42' 25"	14° 20' 04"		
2+80.15	19.85'	21.30'	21.93'	2° 18' 08"	16° 38' 12"		
3+00.00	31.80'	34.12'	35.12'	3° 41' 20"	20° 19' 32"		
TOTAL	175.24'	188.01'	182.47'	Defl. / ft. = 6.9590 min.			

* Information shown is for sidewalk location & grading purposes only.

WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
VALLEYVIEW	2+64.80	25.0' Rt.	157.80
BELLA VISTA	30+35.00	24.0' Rt.	157.11

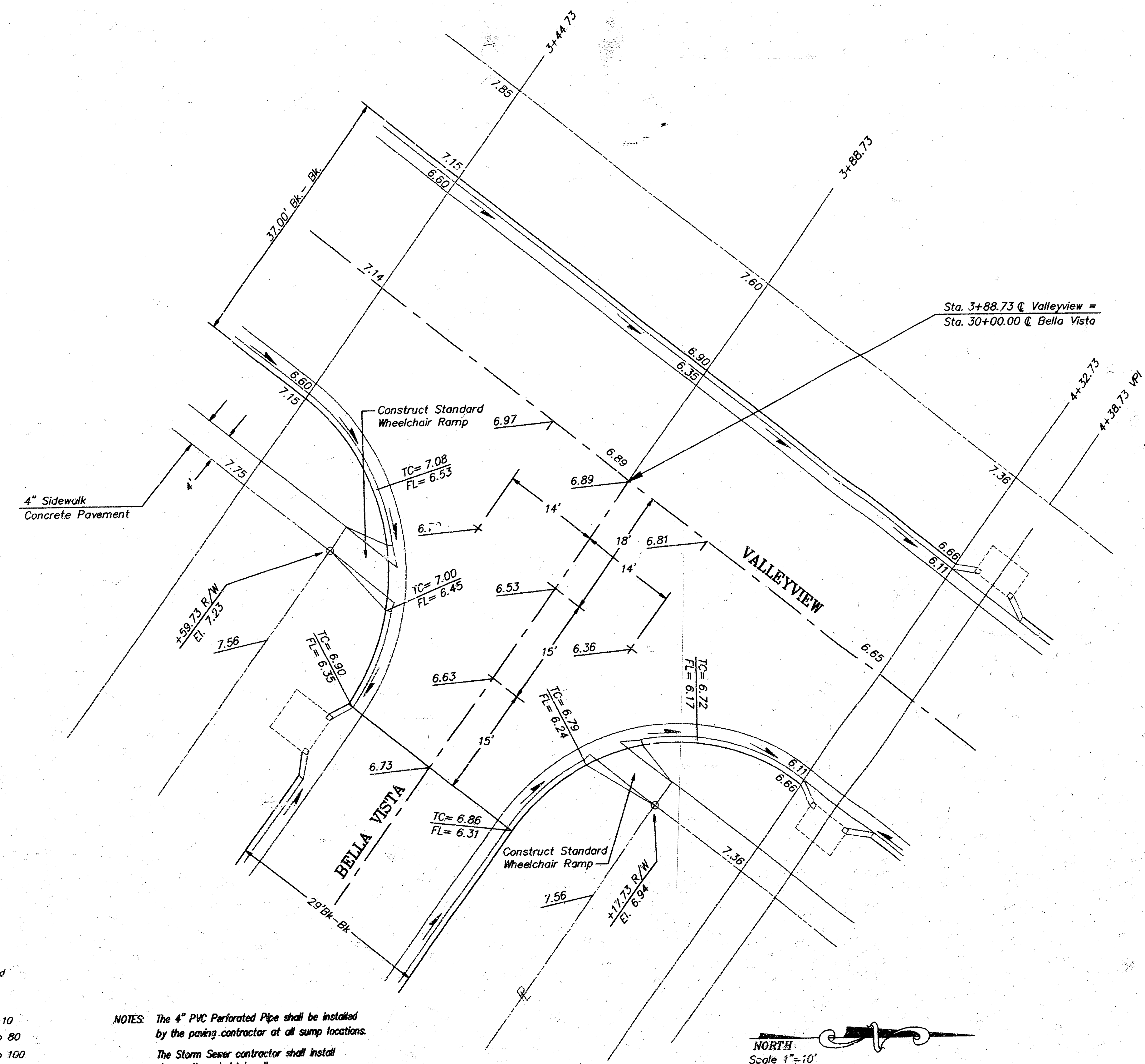
No.	Revision	By	Date
CITY OF WICHITA, KANSAS			
VALLEYVIEW			
STA. 1+00.00 TO 4+50.00			
City of Wichita Project No. 472-92282			
ENGINEERING		SURVEYING	
608 N. West Street		Suite #292	
Wichita, KS 67203		(316) 945-0370	
Designed by RBF	Job No. 90-314		
Drawn by DRS	Date April 3, 1993	Shi. 7 of 15	

WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
VALLEYVIEW	5+51.75	23.0' Rt.	157.21
VALLEYVIEW	6+39.22	25.0' Rt.	157.63



C CURVE DATA									
$\Delta = 40^\circ 00' 00''$ $L/2 = 20^\circ 00' 00''$ $D = 23^\circ 11' 48''$ $R = 247.00'$ $L = 172.44'$ $T = 89.90'$ $E = 15.85'$									
CURVE DATA BASED ON C RADIUS									
C STATION	C ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE		TOTAL DEFLECTION	
		LEFT CURB	RIGHT CURB	6' OFF LEFT FACE CURB	6' OFF RIGHT FACE CURB				
5+72.75						0° 00' 00"		0° 00' 00"	
5+85.72	12.97'	12.02'	13.92'	11.60'	14.33'	1° 30' 15"		1° 30' 15"	
6+00.00	14.28'	13.24'	15.32'	12.78'	15.78'	1° 39' 22"		3° 09' 38"	
6+20.00	20.00'	18.54'	21.46'	17.89'	22.10'	2° 19' 11"		5° 28' 49"	
6+39.22	19.22'	17.82'	20.62'	17.19'	21.24'	2° 13' 45"		7° 42' 34"	
6+50.57	11.35'	10.52'	12.18'	10.15'	12.54'	1° 18' 59"		9° 01' 33"	
6+63.15	12.58'	11.66'	13.50'	11.25'	13.90'	1° 27' 33"		10° 29' 06"	
6+76.20	13.05'	12.10'	14.00'	11.67'	14.42'	1° 30' 49"		11° 59' 55"	
6+89.25	13.05'	12.10'	14.00'	11.67'	14.42'	1° 30' 49"		13° 30' 43"	
7+01.83	12.58'	11.66'	13.50'	11.25'	13.90'	1° 27' 33"		14° 58' 16"	
7+13.18	11.35'	10.52'	12.18'	10.15'	12.54'	1° 18' 59"		16° 17' 15"	
7+30.00	16.82'	15.59'	18.05'	15.05'	18.59'	1° 57' 03"		18° 14' 18"	
7+45.19	15.19'	14.08'	16.30'	13.56'	16.79'	1° 45' 42"		20° 00' 00"	
TOTAL	172.44'	159.87'	185.01'	Defl. / ft. = 6.9590 inin.					

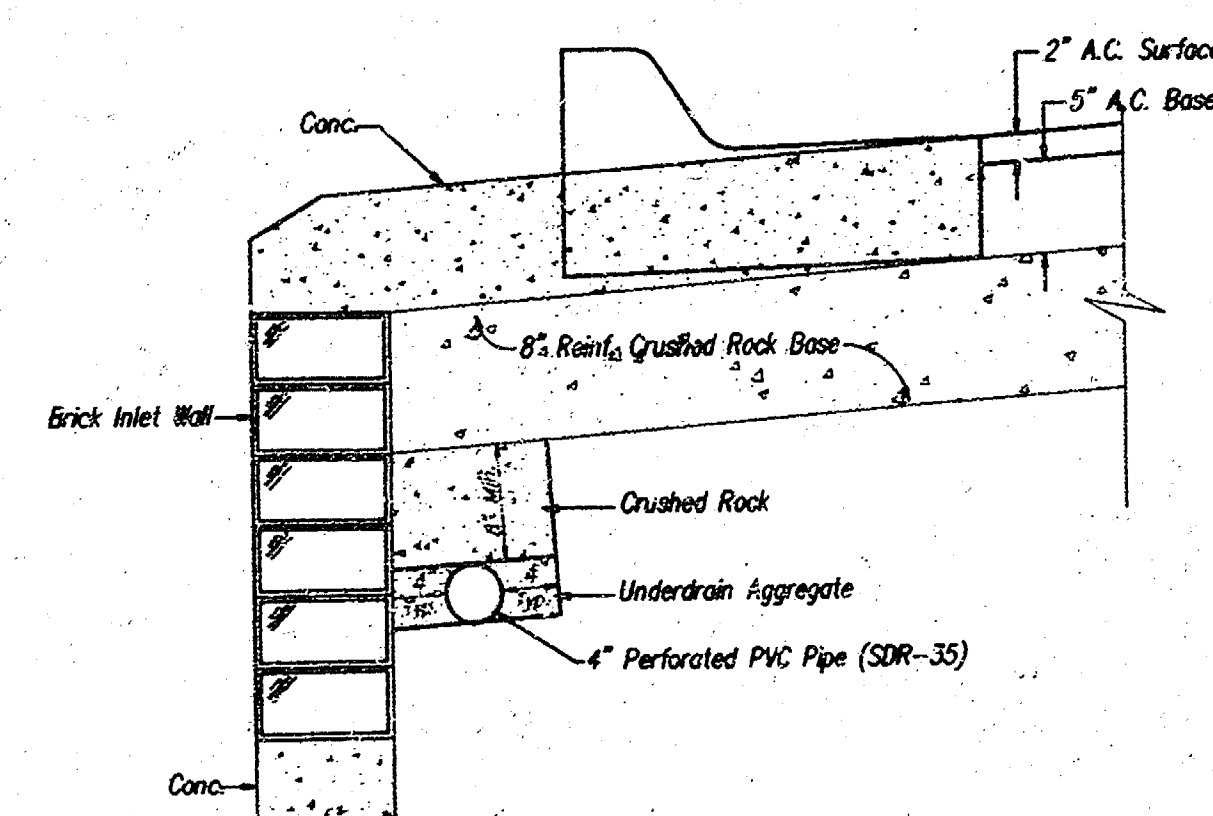
No.	Revision	By	Date
CITY OF WICHITA, KANSAS VALLEYVIEW STA. 4+50.00 TO 6+39.22 City of Wichita Project No. 472-82282 ENGINEERING & SURVEYING 609 N. West Street Suite #282 Wichita, KS 67203 (316) 946-0370			
Designed by RCF	Job No. 90-314		
Drawn by DKS	Date April 3, 1993	Sht. 8 of 15	



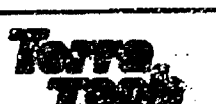
NOTES: The 4" PVC Perforated Pipe shall be installed by the paving contractor at all sump locations. The Storm Sewer contractor shall install sleeves through inlet wall. Cost of Underdrain System to be incidental to the Reinforced Crushed Rock Subgrade. Inlet Type May Vary From That Shown.

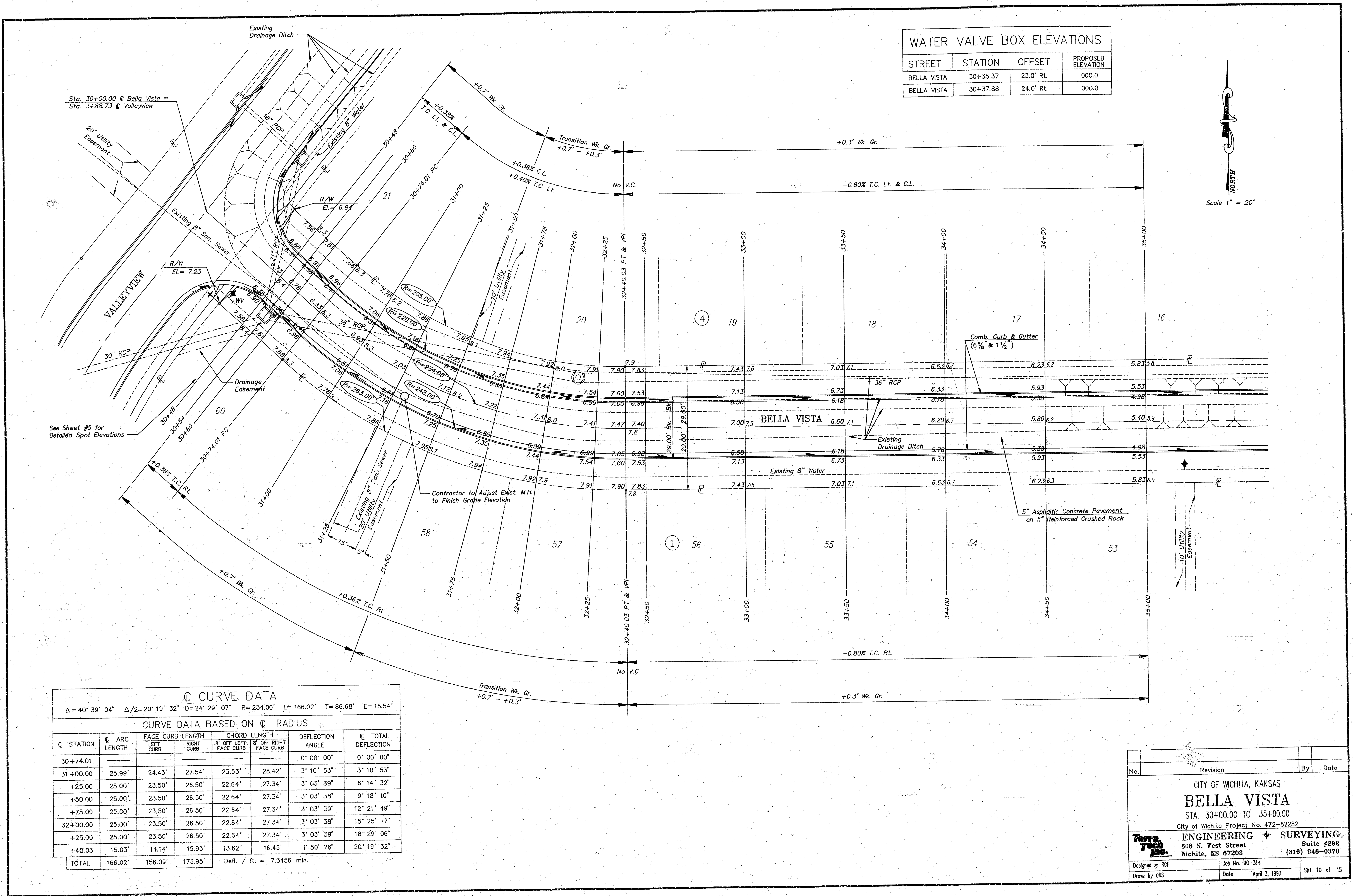
NORTH
Scale 1"=10'

NORTH
Scale 1"=10'

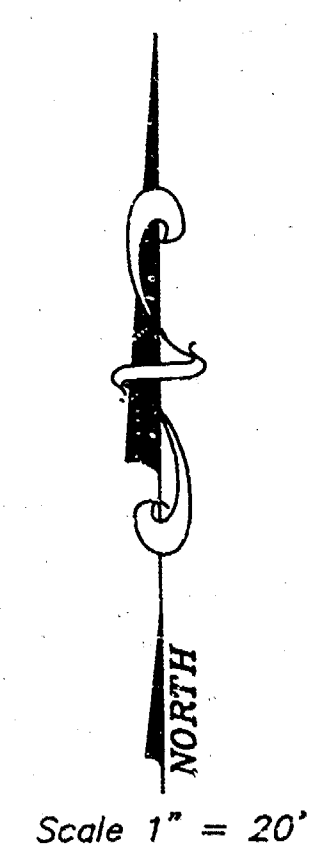


TRENCH DRAIN DETAIL FOR ARTERIAL STREETS
NOT TO SCALE

No.	Revision	By	Date
CITY OF WICHITA, KANSAS INTERSECTION DETAILS VALLEYVIEW STA. 2+56.81 & 3+88.73 City of Wichita Project No. 472-82282			
		ENGINEERING ♦ SURVEYING 608 N. West Street Wichita, KS 67203 Suite #292 (316) 946-0370	
Designed by RDF		Job No. 90-314	Sht. 9 of 15
Drawn by RDF		Date April 3, 1993	



WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
BELLA VISTA	30+35.37	23.0' Rt.	000.0
BELLA VISTA	30+37.88	24.0' Rt.	000.0

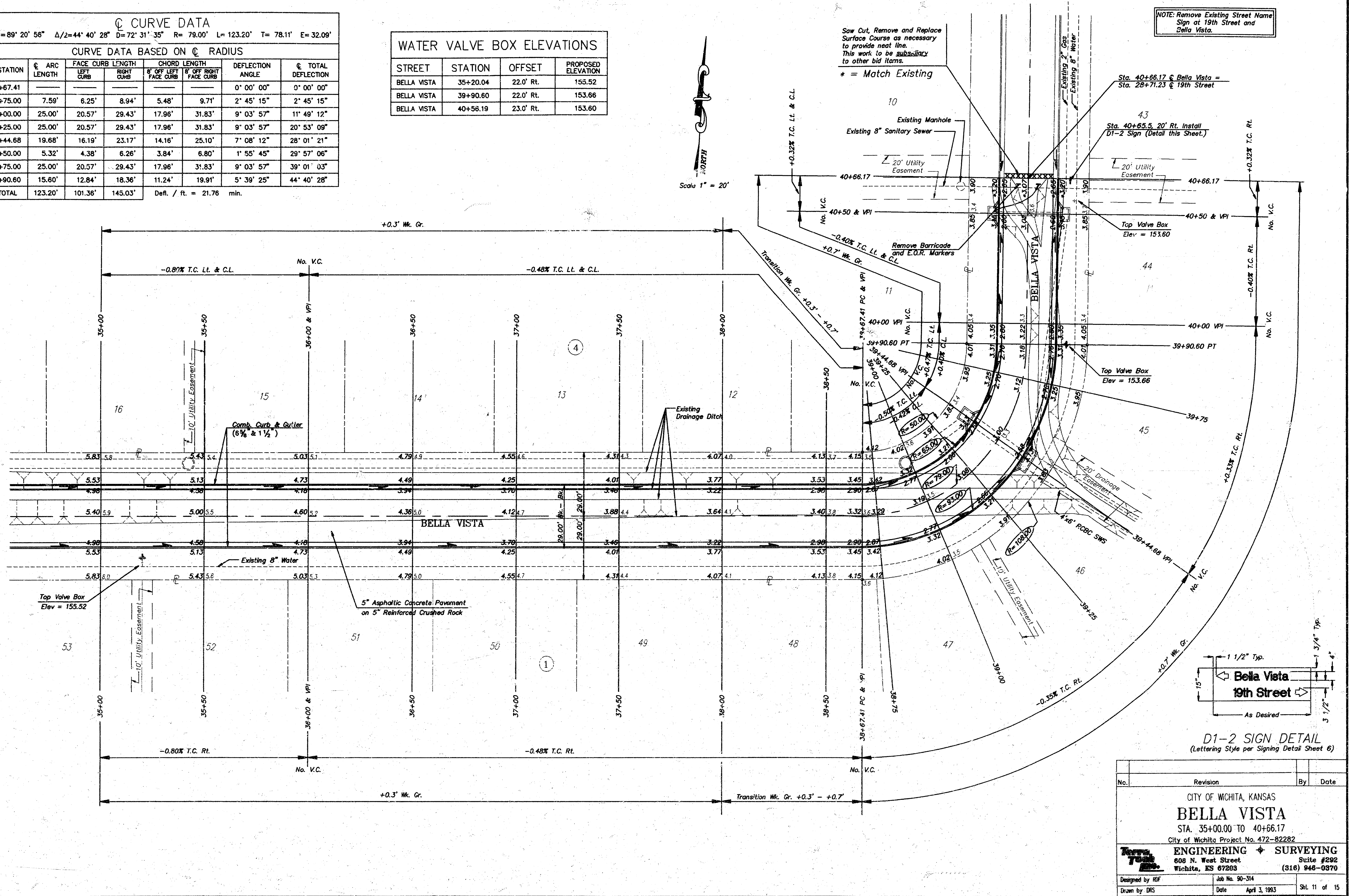


C CURVE DATA							
$\Delta = 40^\circ 39' 04''$ $\Delta/2 = 20^\circ 19' 32''$ $D = 24' 29' 07''$ $R = 234.00'$ $L = 166.02'$ $T = 86.68'$ $E = 15.54'$							
CURVE DATA BASED ON C RADIUS							
C STATION	C ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE	C TOTAL DEFLECTION
		LEFT CURB	RIGHT CURB	8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
30+74.01						0° 00' 00"	0° 00' 00"
31+00.00	25.99'	24.43'	27.54'	23.53'	28.42'	3° 10' 53"	3° 10' 53"
+25.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 39"	6° 14' 32"
+50.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 38"	9° 18' 10"
+75.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 39"	12° 21' 49"
32+00.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 38"	15° 25' 27"
+25.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 39"	18° 29' 06"
+40.03	15.03'	14.14'	15.93'	13.62'	16.45'	1° 50' 26"	20° 19' 32"
TOTAL	166.02'	156.09'	175.95'	Defl. / ft. = 7.3456 min.			

No.	Revision	By	Date
CITY OF WICHITA, KANSAS			
BELLA VISTA			
STA. 30+00.00 TO 35+00.00			
City of Wichita Project No. 472-82282			
ENGINEERING		SURVEYING	
608 N. West Street		Suite #292	
Wichita, KS 67203		(316) 946-0370	
Designed by RBF	Job No. 90-314	Sht. 10 of 15	
Drawn by ORS	Date April 3, 1993		

C CURVE DATA							
$\Delta = 89^\circ 20' 56''$ $\Delta/2 = 44^\circ 40' 28''$ $D = 72^\circ 31' 35''$ $R = 79.00'$ $L = 123.20'$ $T = 78.11'$ $E = 32.09'$							
CURVE DATA BASED ON C RADIUS							
C STATION	C ARC LENGTH	FACE CURB LENGTH LEFT CURB	FACE CURB LENGTH RIGHT CURB	CHORD LENGTH	DEFLECTION ANGLE	C TOTAL DEFLECTION	
38+67.41					0° 00' 00"	0° 00' 00"	
38+75.00	7.59'	6.25'	8.94'	5.48'	9.71'	2° 45' 15"	2° 45' 15"
39+00.00	25.00'	20.57'	29.43'	17.96'	31.83'	9° 03' 57"	11° 49' 12"
39+25.00	25.00'	20.57'	29.43'	17.96'	31.83'	9° 03' 57"	20° 53' 09"
39+44.68	19.68'	16.19'	23.17'	14.16'	25.10'	7° 08' 12"	28° 01' 21"
39+50.00	5.32'	4.38'	6.26'	3.84'	6.80'	1° 55' 45"	29° 57' 06"
39+75.00	25.00'	20.57'	29.43'	17.96'	31.83'	9° 03' 57"	39° 01' 03"
39+90.60	15.60'	12.84'	18.36'	11.24'	19.91'	5° 39' 25"	44° 40' 28"
TOTAL	123.20'	101.36'	145.03'				Defl. / ft. = 21.76 min.

WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
BELLA VISTA	35+20.04	22.0' Rt.	155.52
BELLA VISTA	39+90.60	22.0' Rt.	153.66
BELLA VISTA	40+56.19	23.0' Rt.	153.60



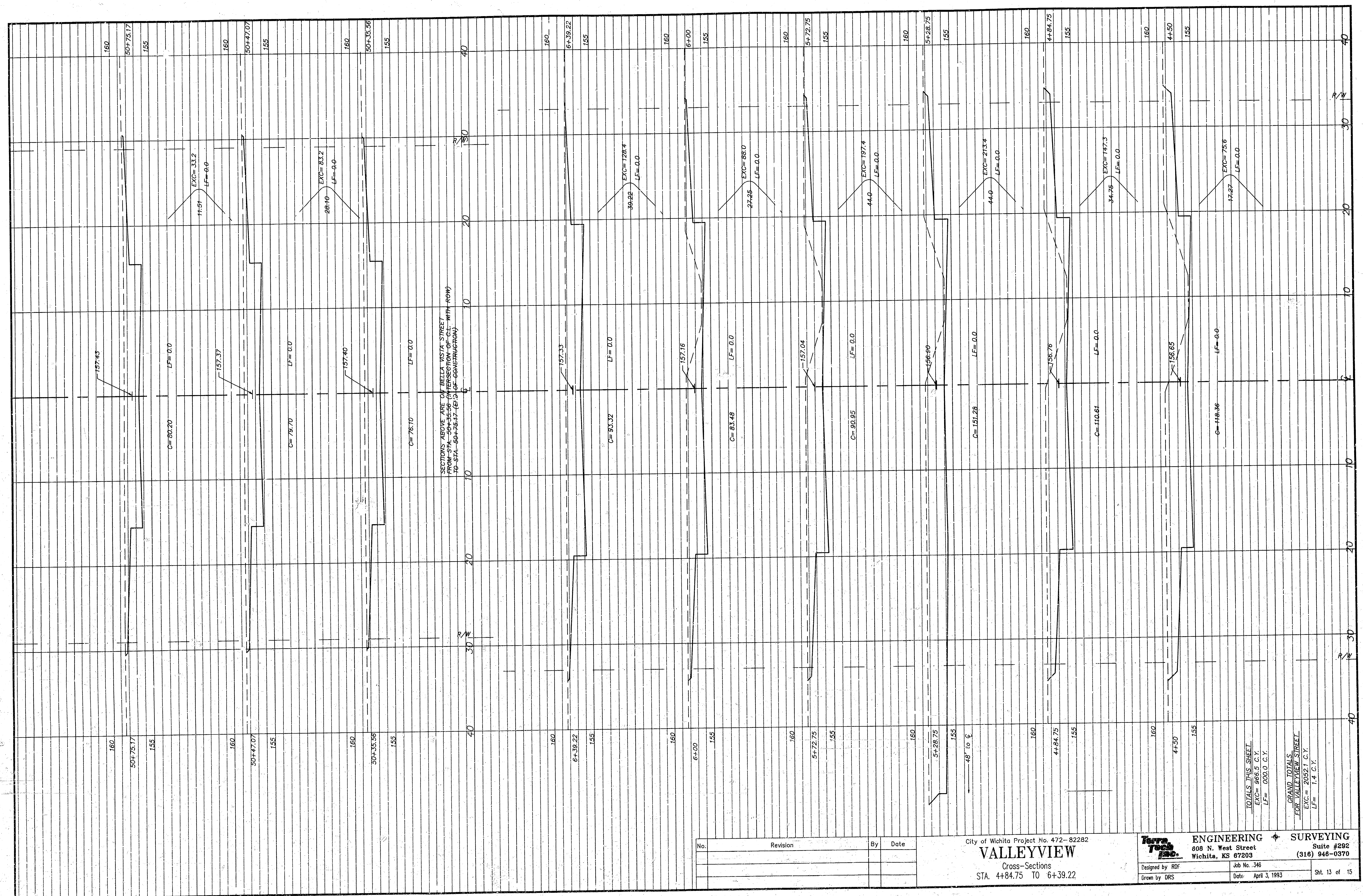
No.	Revision	By	Date
CITY OF WICHITA, KANSAS			
BELLA VISTA			
STA. 35+00.00 TO 40+66.17			
City of Wichita Project No. 472-82282			
ENGINEERING		SURVEYING	
608 N. West Street		Suite #292	
Wichita, KS 67203		(316) 946-0870	
Designed by: RIF	Job No. 90-314		
Drawn by: DRS	Date: April 3, 1993	Sht. 11 of 15	

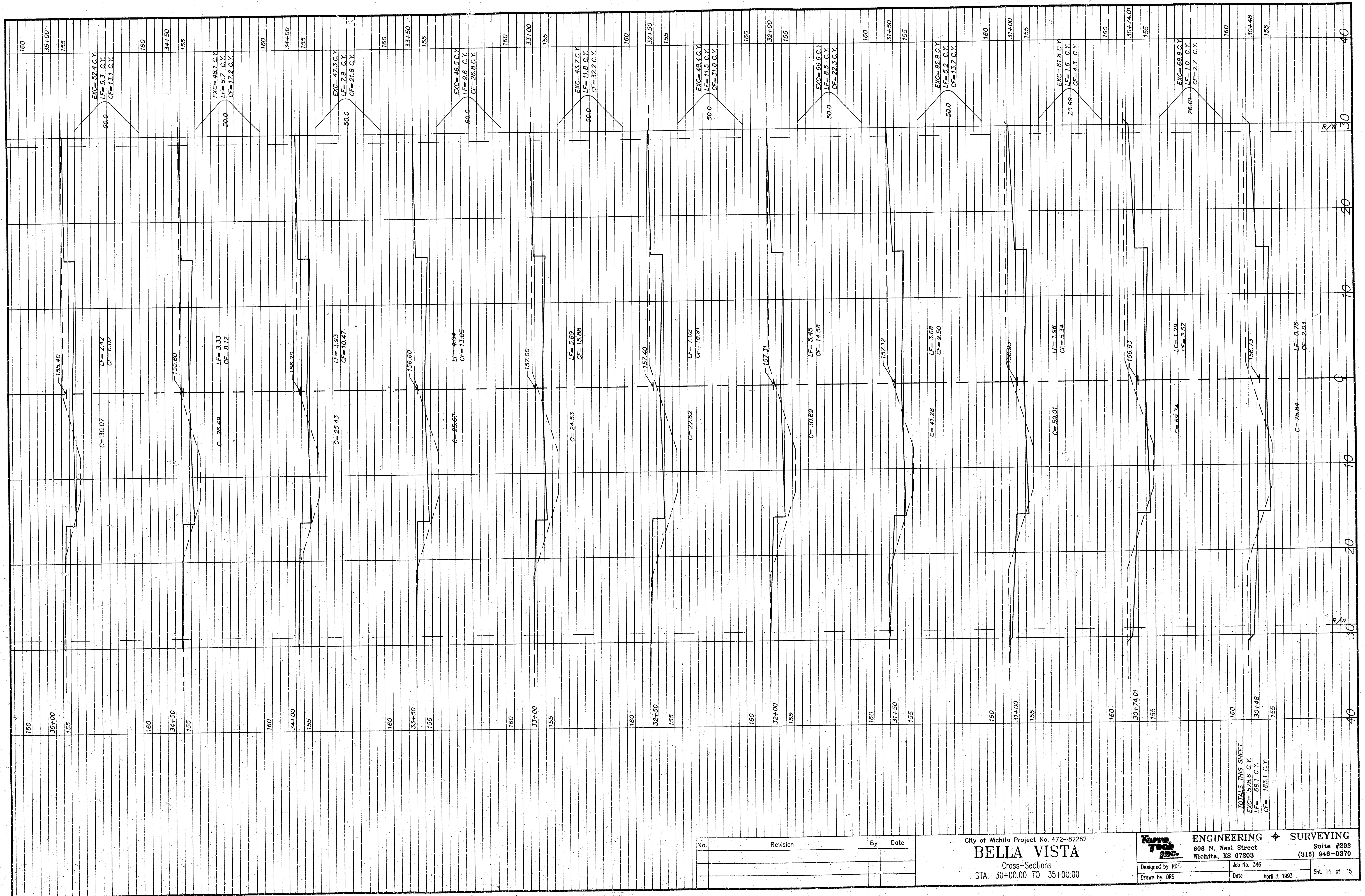


No.	Revision	By	Date

City of Wichita Project No. 472-82282
VALLEYVIEW
Cross-Sections
STA. 1+00.00 TO 4+50.00

ENGINEERING ♦ **SURVEYING**
608 N. West Street
Wichita, KS 67203
Suite #292
(316) 946-0370
Designed by RUF
Drawn by DRS
Job No. 346
Date April 3, 1993
Sht. 12 of 15





No.	Revision	By	Date

City of Wichita Project No. 472-82282

BELLA VISTA

Cross-Sections
STA. 30+00.00 TO 35+00.00



ENGINEERING & SURVEYING

608 N. West Street
Wichita, KS 67203

Designed by RDR
Drawn by DRS

Job No. 346
Date April 3, 1993

Sht. 14 of 15



No.	Revision	By	Date

City of Wichita Project No. 472-76-245-00000-000-000-001
BELLA VISTA
Cross-Sections
STA. 35+50.00 TO 40+66.17

ENGINEERING
608 N. West Street
Wichita, KS 67208

SURVEYING
Suite #522
(316) 946-0370

Designed by RDR
Drawn by DRS

Job No. 246
Date April 3, 1993

Sht. 15 of 15

TOTALS THIS SHEET
EXC= 681.3 C.Y.
LF= 76.5 C.Y.
CF= 41.3 C.Y.

GRAND TOTALS
EXC= 1259.9 C.Y.
LF= 145.6 C.Y.
CF= 226.4 C.Y.