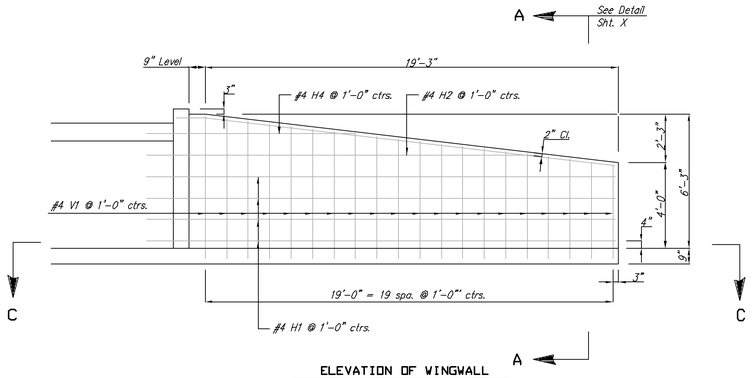
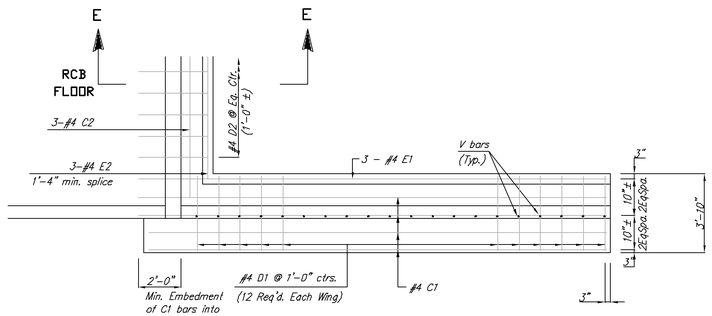


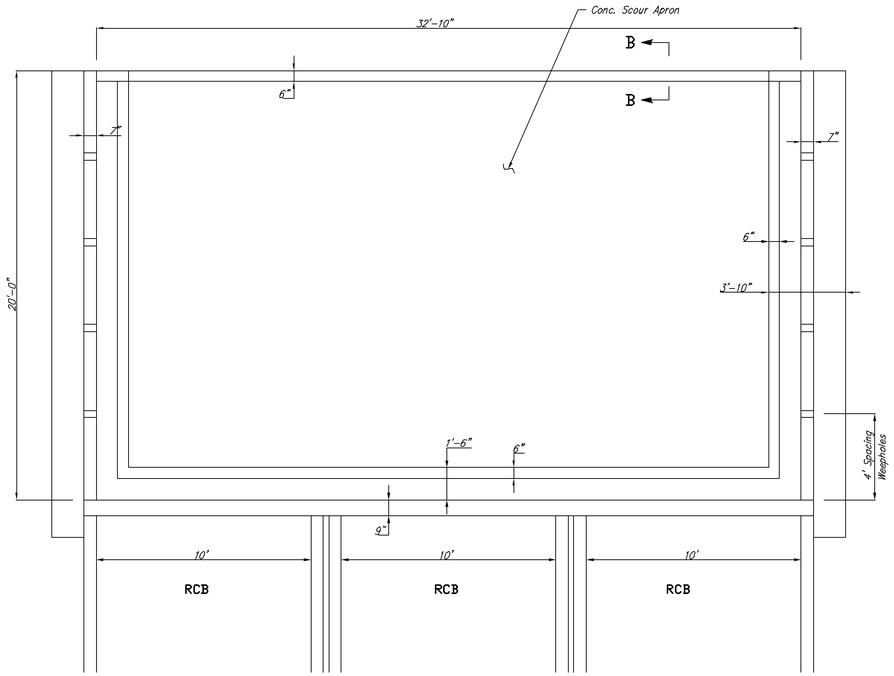
ELEVATION OF WINGWALL

(Backface Shown)



SECTION C-C

(Plan of Footing)



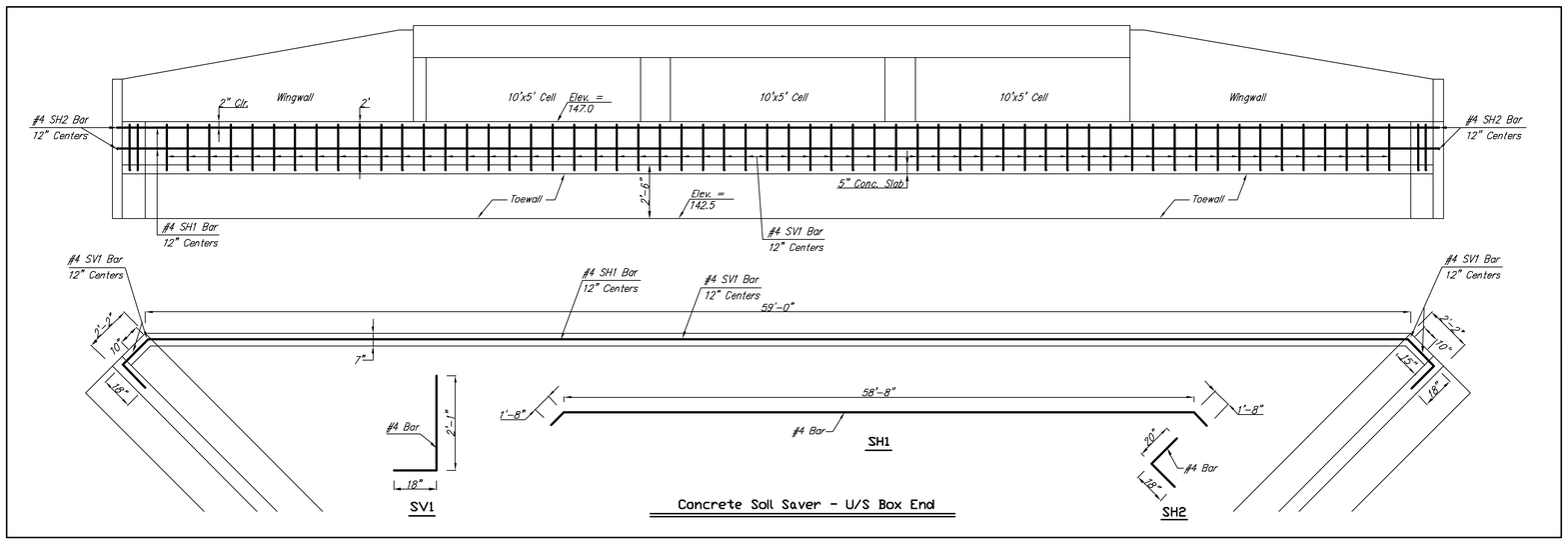
WING DIMENSIONS FOR NORMAL BOX

(3 1/2 :1 Embankment Slope)

NOTE: Reinforcing Bar List is for both wings at one end of box only.

* See Bending Diagram

		#4C1	#4D1	#4E1	#4C2	#4D2	#4E2	#4V1	#4H1	#4H2	#4H3	#4H4
0° Skew	No.	8	40 *	6	1	25	3	40	8	2	2	2
	Length	21'-4"	5'-8"	20'-3"	33'-0"	5'-2"	*	*	21'-10"	18'-4"	20'-10"	9'-9"



Concrete Soil Saver - U/S Box End

GENERAL NOTES

UNIT STRESSES: Class AAA Concrete; f'c = 4,000 p.s.i.
Reinforcing Steel; fy = 60,000 p.s.i.

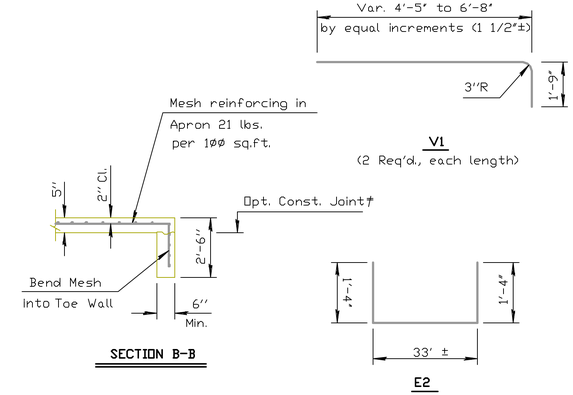
CONCRETE: Class AAA Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular moulding.

REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded Wire Fabric shall conform to ASTM A185. All dimensions relative to reinforcing steel shall be to center-line of bar unless otherwise noted.

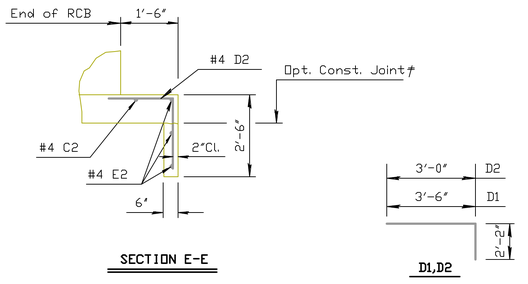
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.

APRON: A 5' concrete slab shall be constructed between the down-stream wings in locations subject to scour only when specified on the plans or by the Engineer. Wire Reinforcing mesh shall be electrically welded and shall be composed of 6 x 6-W1.4 x W1.4 welded wire fabric and shall be classified as pounds of reinforcing.

FOUNDATION AND BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for foundation and/or backfill material for wingwalls and will not be used. Where these conditions exist, Foundation Stabilization and/or Granular Backfill (Wingwalls) shall be used as determined by the Engineer. See "RCB Auxiliary Details" sheet for additional details.



SECTION B-B



SECTION E-E

D1,D2

BENDING DIAGRAM

(All dimensions are out to out of bars.)

WINGWALL QUANTITIES (One End Only)		
Class AAA Concrete:		
Wingwalls	14.7	CY.
Apron	10.1	CY.
Soil Saver	NONE	CY.
Reinforcing Steel	931	Lbs.
Welded Wire Fabric	150	Lbs.

CRYSTAL CREEK ADDITION

WINGWALL DETAIL

CITY OF WICHITA, KANSAS

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET
472-83818	31 of 57

DESIGN	DRAWN	APPROVED	DATE	SCALE
SCL	SCL		1/04	NOTED

wingwall.dwg