

| FWHA REGION NO. | STATE  | PROJECT NO.     | YEAR | SHEET NO. | TOTAL SHEETS |
|-----------------|--------|-----------------|------|-----------|--------------|
| 7               | KANSAS | 54-87 K-4445-01 | 1996 | 44        | 73           |

# GENERAL NOTES

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

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

**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.

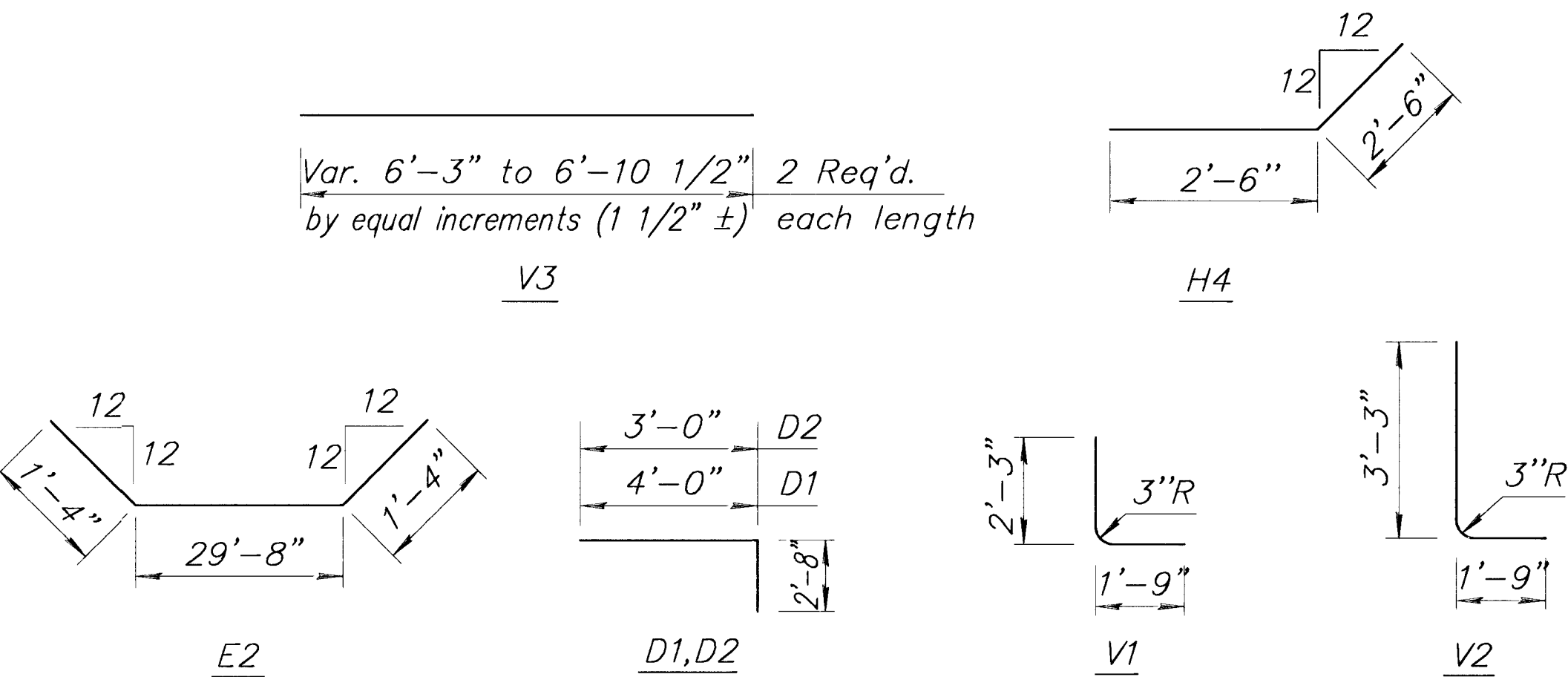
## Storm Pipe Location Summary

| STRUCTURE             | PIPE MARK | STATION             | OFFSET                   | WALL         | SIZE       | ELEV.                     |
|-----------------------|-----------|---------------------|--------------------------|--------------|------------|---------------------------|
| Pinecrest at E.B.D.C. | --        | 11+97.36<br>11+35.5 | 16.12' Lt.<br>16.12' Rt. | West<br>East | 18"<br>24" | Match<br>Exist<br>1331.47 |

NOTE: Stations and offsets are at intersection of  $\phi$  Pipe with outside face of R.C.B. wall, referenced to  $\phi$  E.B.D.C. See Sheet 46 for Wall Opening Details for Storm Pipes.

## BENDING DIAGRAMS

(All dimensions are out to out of bars.)



## WING DIMENSIONS FOR NORMAL BOX

NOTE: Space weepholes to clear reinforcing steel. See "RCB Aux. Details" sheet for additional weephole details.

| Minimum Splice Lengths |       |
|------------------------|-------|
| #4                     | 1'-4" |
| #5                     | 1'-8" |
| #6                     | 2'-0" |

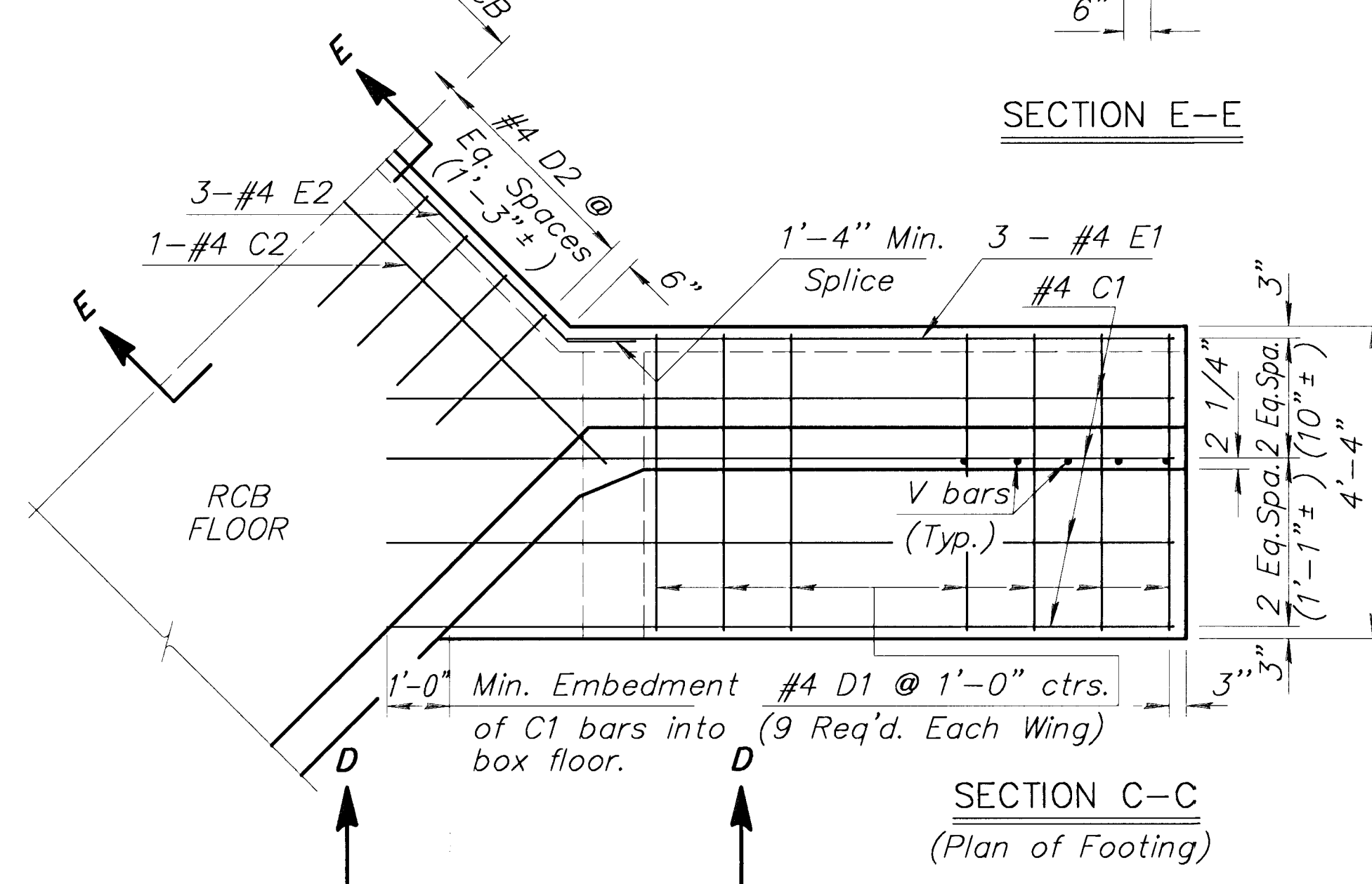
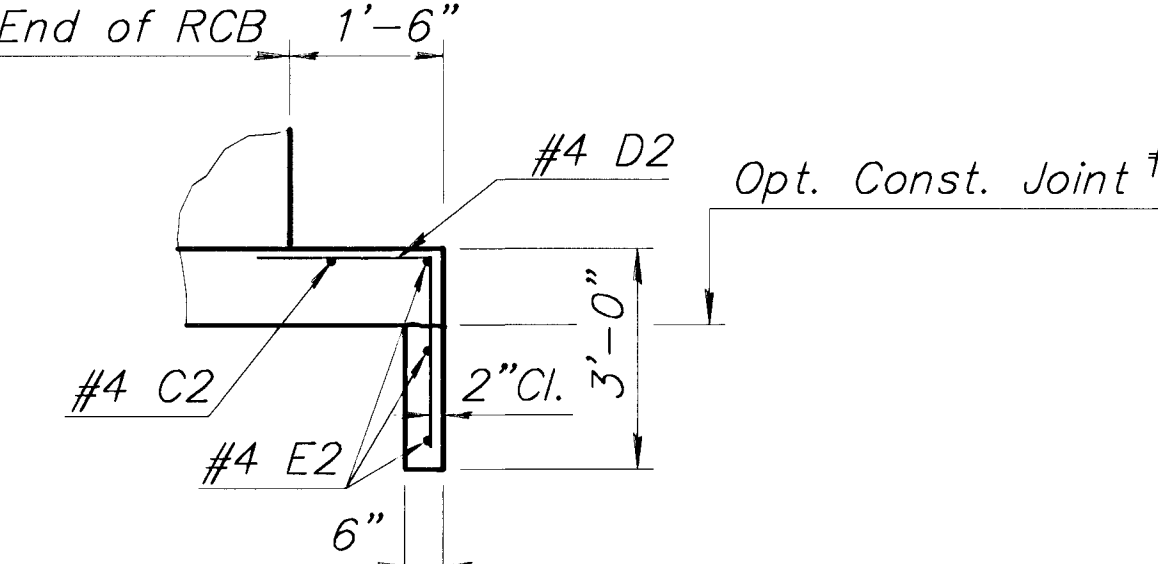
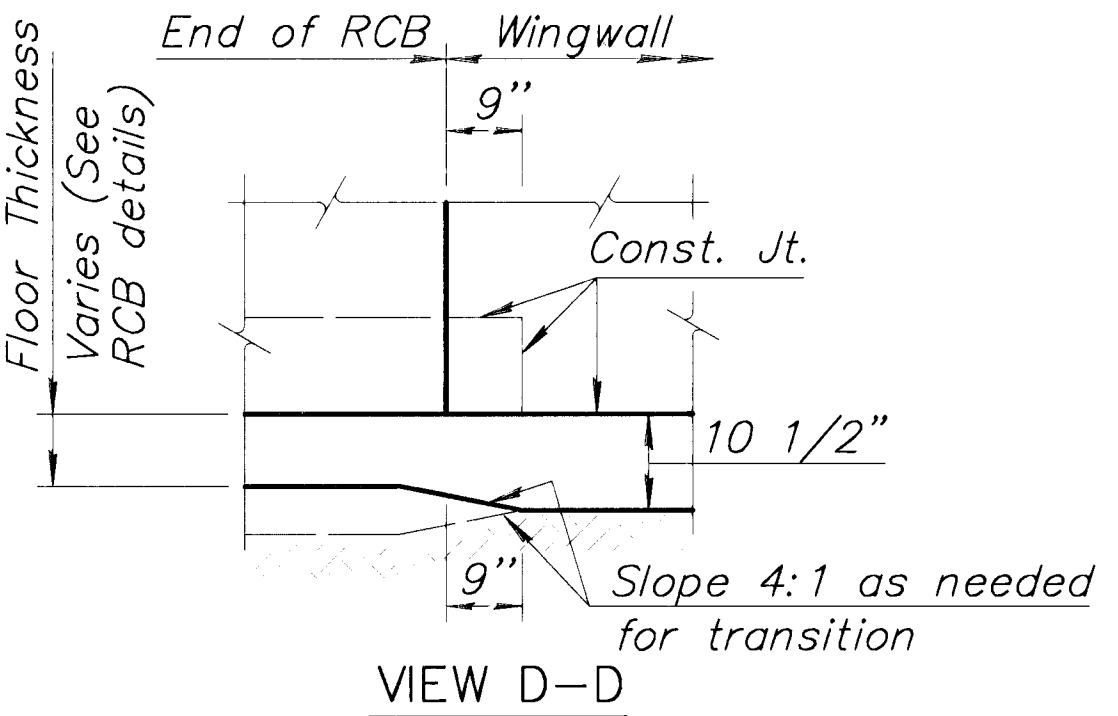
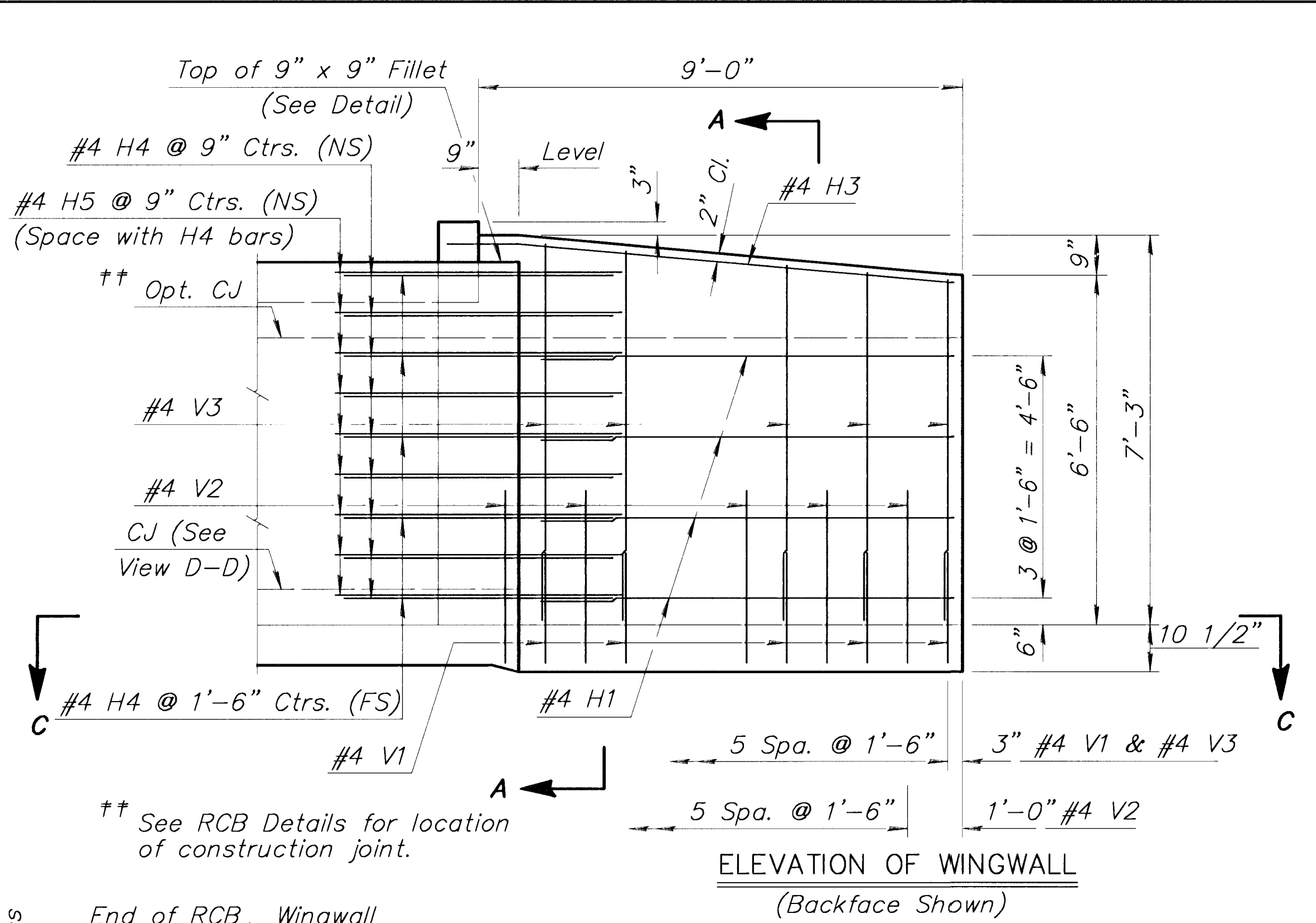
Quantities listed are included in the Summary of Quantities shown on the RCB details.

| WINGWALL QUANTITIES (S.W. End Only, both wings) |          |
|-------------------------------------------------|----------|
| Class AAA Concrete                              | 8.5 CY.  |
| Reinforcing Steel                               | 670 Lbs. |

| NO. | DATE | REVISIONS | BY | APP'D |
|-----|------|-----------|----|-------|
|     |      |           |    |       |
|     |      |           |    |       |
|     |      |           |    |       |

CITY OF WICHITA  
STA. 57+50.28  
FLARED WINGWALLS (Pinecrest)  
6 FT. RISE (0° SKEW)

|                           |              |
|---------------------------|--------------|
| PROJ. NO. 54-87 K-4445-01 | SEDGWICK CO. |
| FWHA APPROVAL             | 8-5-91 APP'D |
| DESIGNED                  | MDK          |
| DETAIL CK.                | KJS          |
| QUANTITIES                | MDK          |
| TRACE CK.                 | MDK          |



NOTE: Reinforcing Bar List is for both wings at the S.W. end of the box. \* See Bending Diagram

| Mark           | #4C1   | #4D1  | #4E1  | #4C2   | #4D2  | #4E2   | #4V1  | #4V2  | #4V3 | #4H1   | #4H3  | #4H4  | #4H5  |
|----------------|--------|-------|-------|--------|-------|--------|-------|-------|------|--------|-------|-------|-------|
| 0° Skew Number | 8      | 18*   | 6     | 1      | 24*   | 3*     | 12*   | 12*   | 12   | 8      | 2     | 28*   | 18    |
| Length         | 11'-7" | 6'-8" | 8'-9" | 32'-0" | 5'-8" | 32'-4" | 4'-0" | 5'-0" | *    | 7'-10" | 9'-6" | 5'-0" | 3'-6" |

| ORIG. FROM | BRAND | PROJ. | CO.  | CHECK |
|------------|-------|-------|------|-------|
| DESIGN     | DATE  | DATE  | DATE | DATE  |
| QUANTITIES | DATE  | DATE  | DATE | DATE  |
| TRACING    | DATE  | DATE  | DATE | DATE  |
| RETRACTED  | DATE  | DATE  | DATE | DATE  |