**NOTES:**

All construction and materials shall be in accordance with the current Oklahoma City standard specifications.

Reinforcing steel in bottom slab (footing) shall be supported on bar chairs. Chairs shall be supported on timber planks or class "C" concrete strips placed at 4" C/C.

Reinforcing steel in top slab shall be supported on slab spacers.

Reinforcing steel in the walls shall be held in place by metal chairs. Maximum spacing of the chairs shall be 6".

Cost of metal chairs, wood plank or concrete strips shall be included other items of work.

---

**PIPE HANDRAIL DETAILS**

- Pipe shall be 3" I.D. galvanized steel pipe with plain galvanized fittings. Use standard & special fittings as needed.

---

**Reinforcing Steel**

- WH3 bars
  - 8' - 7" to 14' - 9"
  - 9' - 6" to 16' - 9"
  - 7' - 0" to 10' - 6"
  - 7' - 4" to 10' - 10"
- WH2 & 3 bars
  - 8' - 8" to 14' - 10"
  - 9' - 7" to 16' - 10"
  - 5' - 7"
  - 3' - 7"
- G bars
  - 2' - 6" to 4' - 1"
  - 3' - 3" to 5' - 8"
  - 3' - 3" to 5' - 8"
  - 8' - 2" to 9' - 2"
  - 8' - 2" to 9' - 2"

---

**Quantities**

- Total LBS. = 20.0
- Quantities *=
  - 2,000
  - 4,000
  - 1,600

---

**Dimensions**

- Widths
  - 9' - 0"
  - 8' - 10"
  - 13' - 0"
  - 11' - 1"
  - 15' - 1"
  - 9' - 0" to 12' - 7'
  - 9' - 0" to 16' - 2"
  - 9' - 2" to 20' - 0"
  - 9' - 4" to 20' - 2"

---

**Aluminum Paint**

- Cleaned of all loose scale, ground smooth & pointed with two coats of aluminum paint.
### Plan of Wing

**Dimensions:**
- **AB:** 6.0 - 10.0
- **AC:** 6.0 - 10.0
- **AD:** 6.0 - 10.0
- **AE:** 6.0 - 10.0
- **AF:** 6.0 - 10.0
- **AG:** 6.0 - 10.0
- **AH:** 6.0 - 10.0
- **AI:** 6.0 - 10.0
- **AJ:** 6.0 - 10.0

**Dimensions of C1 Bars:**
- **H:** 6.0 - 10.0
- **I1:** 6.0 - 10.0

**Reinforcing:**
- **C1 Bars:**
  - 6.0 - 10.0
- **C2 Bars:**
  - 6.0 - 10.0
- **C3 Bars:**
  - 6.0 - 10.0

**Details:**
- **Alternate Detail:**
  - Using weld connections on pipe handrail.
- **Handrail Notes:**
  - Weld connections may be used for pipe handrail. Weld connections shall be thoroughly cleaned of all loose scale, ground smooth & spot pointed with two coats of aluminum paint.

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**Notes:**
- Quantities shown include curb, wings and cutoff walls for one upstream & one downstream end barrel.
- Use standard & special fittings as needed.

**Additional:**
- Thoroughly cleaned of all loose scale, ground smooth & spot pointed with two coats of aluminum paint.
**Notes:**

1. Reinforcing steel in bottom slab (footing) shall be oriented as shown in the plan.
2. Reinforcing steel in the walls shall be held in place by metal chairs. Metal chairs shall be provided as specified.
3. Vertices shown include cutout and cut-off walls, where called for in plan.

**Dimensions:**

- **Clear Span:** 15' 11 1/2" (STR.)
- **Length:** 108" (STR.)
- **Depth:** 12" (STR.)

**Materials:**

- **Concrete:** Standard reinforced concrete box
- **Steel:** 3/4" (STR.)
- **Pipes:** 3" (STR.)

**Construction:**

- **Trench:** Cleaned of all loose scale, ground smooth & spot cleaned with two coats of aluminum paint.
- **Cutoff Wall:** Construct 2" O.W. (in 1/2" V-groove) as directed by City Engineer. All cutoff in the house to be included in the bid amount (if any).

**Quantities:**

- **Concrete:** 11,200 cu. ft.
- **Steel:** 17,100 lb.
- **Pipes:** 2,700 lb.

**Sections:**

- **Section A-A:**
  - 2" O.W. (in 1/2" V-groove)
  - Vertices shown include cutout and cut-off walls, where called for in plan.

- **Section B-B:**
  - Vertices shown include cutout and cut-off walls, where called for in plan.

**Additional Cutoff Wall Space:**

- V2 Bars (Alt. with V1 & V2 Bars)
  - #5 @ 18" C/C
  - #6 @ 18" C/C
  - #7 @ 18" C/C

- V3 Bars
  - #4 @ 18" C/C
  - #5 @ 18" C/C

- Vertices shown include cutout and cut-off walls, where called for in plan.

**General Notes:**

- All construction and materials shall be in accordance with the current Oklahoma City specifications.
ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT OKLAHOMA CITY ENGINEER, ERIC J. WENGER, P.E.

NOTE: QUANTITIES SHOWN INCLUDE CURVE, V1, V2, AND CUTOFF WALLS FOR ONE UPSTREAM AND ONE DOWNSTREAM BARRIER.

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<td>V2 BARS</td>
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### Notes:

- reinforcement in the walls shall be held in place by metal chairs. maximum spacing of the chairs shall be 6' on center.
- reinforcement in the bottom slab (footings) shall be supported on aluminum pipe with plain galv. fittings. use standard & special fittings as needed.
- (a) see bar list
- (a) see bar list
- (a) see bar list
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GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH OKLAHOMA CITY STANDARD SPECIFICATIONS.
2. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A CARBORUNDUM FINISH.
3. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
4. ALL REINFORCED STEEL SHALL COMPLY TO ASTM A-74 (TYP. C 79).
5. MINIMUM DEPTH OF ALL CULVERTS SHALL BE 1'-10".
6. WALL THICKNESS DIMENSION "W" OF PIPE SHOWN IS TAKEN FROM "WALLS" COLUMN OF A351/A350 TABLE A-8.

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All construction shall be in accordance with the latest edition of the

HANDRAIL NOTES: WELD CONNECTIONS MAY BE USED FOR PIPE
CLEANED OF ALL LOOSE SCALE, GROUND SMOOTH & SPOT

1/2' O

3" I.D. GALV. STEEL PIPE WITH PLAIN GALV. FITTINGS.

D-BAR BENT 1/2" O (G - 4" LONG)

A-BAR BENDING DIAGRAM

§ELEVATION

METAL PIPE ARCH

EMBREMENTS AND QUANTITIES FOR STEEL FOR METAL PIPE ARCH

EMBREMENTS FOR CONCRETE

QUANTITIES FOR TWO END WALLS

EMBREMENTS

LENGTHS

REINFORCING STEEL

UMBREMENTS

QUANTITIES

MATERIALS

GENERAL NOTES

All connection shall be in accordance with the later edition of the

All exposed concrete shall be a 3/4" Chamfer.

All exposed concrete shall be a Carborundum Finish.

All exposed concrete shall be a 1/8" to 1/4".
OKLAHOMA CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

STANDARD CHANNEL LINER & FLUME DETAILS

CONCRETE CHANNEL LINER JOINT DETAIL

CONSTRUCTION JOINT

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REINFORCED TOE CONSTRUCTION
(TO BE USED ONLY IF CALLED FOR IN THE PLANS)

ROCK BACKFILL

Soil

Soil

EROSION CONTROL MAT

STAKE AT 3' TO 5' INTERVALS

LONGITUDINAL ANCHOR TRENCH

TERMINAL SLOPE AND CHANNEL ANCHOR TRENCH

ISOMETRIC VIEW

EROSION BLANKET & TURF REINFORCEMENT MATS

CHANNEL INSTALLATION

1. CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURE'S SPECIFICATIONS.
2. STAKING OF STAPLING LAYOUT PER MANUFACTURES SPECIFICATIONS.

SLOPE INSTALLATION

NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS / BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

ISOMETRIC VIEW

"T" STAPLE DETAIL

MIN. 4" OVERLAP

MATS / BLANKETS SHOULD BE INSTALLED VERTICALLY DOWN SLOPE

TAMP SOIL OVER MAT / BLANKET

ISOMETRIC VIEW

TYPICAL SLOPE

SOIL STABILIZATION

NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS / BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

Erosion Blanket & Turf Reinforcement Mats

Slope Installation

NOTES:
1. CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURE'S SPECIFICATIONS.
2. STAKING OF STAPLING LAYOUT PER MANUFACTURES SPECIFICATIONS.

Erosion Blanket & Turf Reinforcement Mats

Channel Installation
GALVANIZED CABLE CLAMPS SHALL BE PLACED ON EACH SIDE OF EVERY 4TH POST. ALL CLAMPS TO BE TIGHTENED AND PERMANENTLY SEALED.

7" x 6'-0" TREATED WOOD POST

1" DIA. DRILLED HOLE (TWO HOLES WHERE SPliced AS NEEDED)

DOME SHAPED TOP

7" x 6'-0" TREATED WOOD POST

3/4" GALVANIZED 3 x 7 BARRIER CABLE

GROUND LINE

MIN. 7" SAG MAX. 8" SAG

ALL POST SPACING TO BE 25'-0" C/C

ELEVATION

1/2" x 12" GALVANIZED EYE BOLT, NUT & WASHERS

1/2" x 12" LOOP IN CABLE

12" LENGTH OF 1/2" LENGTH OF CHAIN & MASTER LOCK WITH KEY # 3205

CABLE SPLICE WITHIN LIMITS OF POST

TYPICAL GALVANIZED CABLE CLAMP

NOTE: CABLE LENGTH TO BE AS CONTINUOUS AS REASONABLE WORKABILITY PERMITS, THEN SPLICE THROUGH POST AS SHOWN.

WIRE SPLICE

STANDARD CABLE FENCE DETAIL

NOTE: COST OF BOLTS, NUTS, WASHERS, CHAIN, LOCKS AND KEYS TO BE INCLUDED IN COST OF OTHER ITEMS.