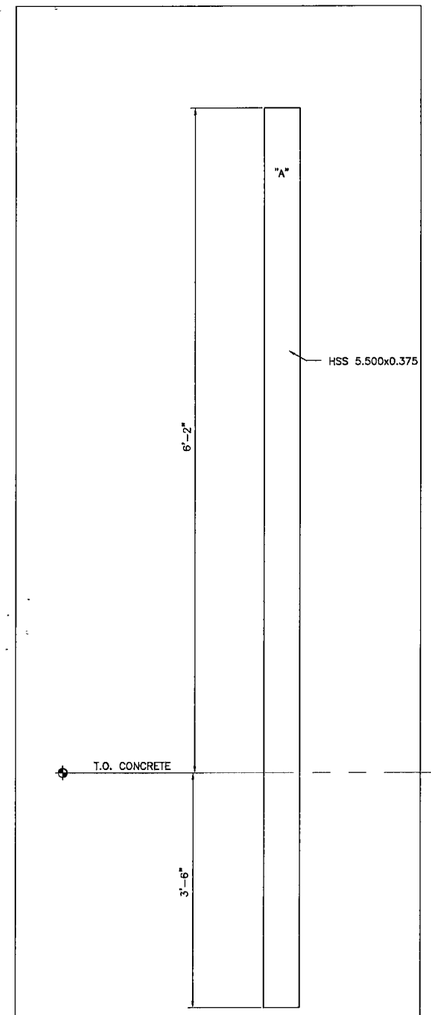


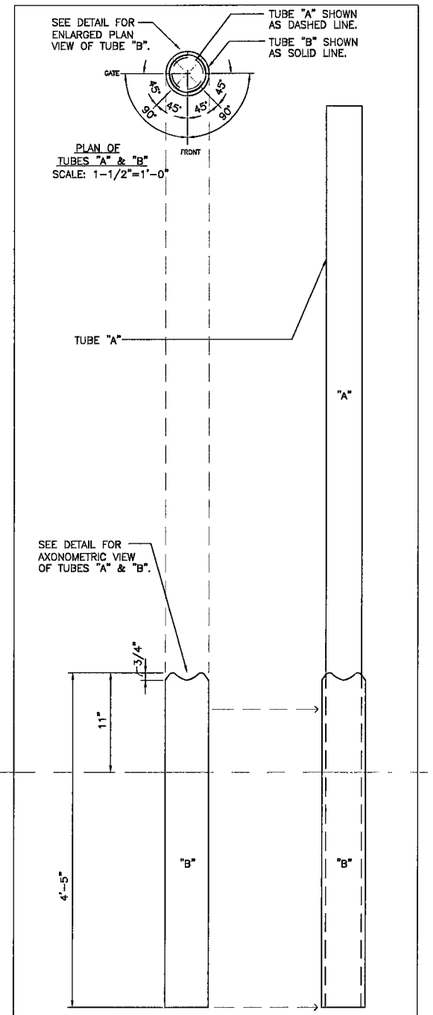

ELEVATION
OF TUBE "A"
SCALE: 1-1/2"=1'-0"

PLAN OF
TUBE "A"
SCALE: 1-1/2"=1'-0"

STEP 1: FABRICATE TUBE "A" AT LENGTH SHOWN. SEE PLAN & ELEV. FOR TUBE DIAMETER.

NOTES:
* ALL WELDS SHALL BE GROUND SMOOTH & GALVANIZED PAINT SHALL BE APPLIED AFTER WELDING IS COMPLETE AT ALL WELDED AREAS.

NOTES:
* ALL PIPES SHOWN ON THIS PAGE SHALL BE CARBON MECHANICAL TUBING AS MFR.'D BY "MARMON/KEYSTONE", PHONE# (724)-283-3000 OR APPROVED EQUAL.
120449




PLAN OF
TUBES "A" & "B"
SCALE: 1-1/2"=1'-0"

ELEVATION
OF TUBE "B"
SCALE: 1-1/2"=1'-0"

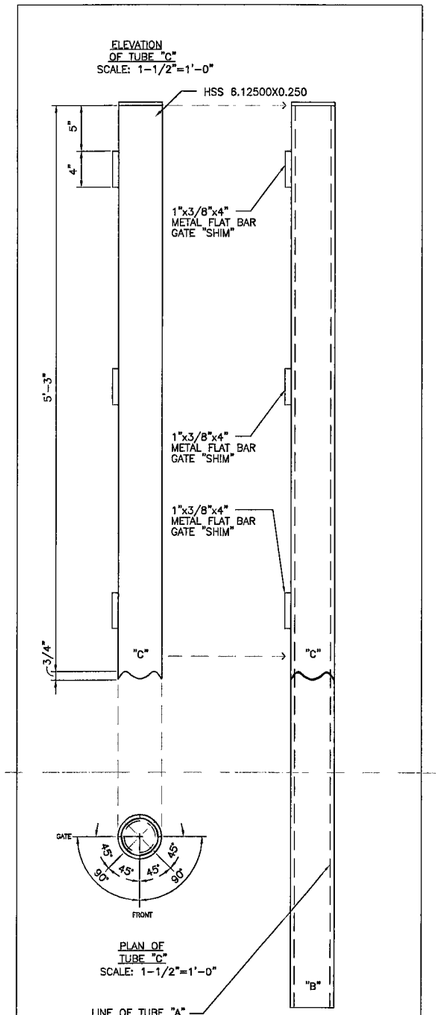
COMPOSITE ELEV
OF TUBES "A" & "B"
SCALE: 1-1/2"=1'-0"

STEP 2: CUT THE CURVED PROFILE OF THE TOP OF TUBE "B", SEE DETAILS ON SHEET DT3 FOR THE PLAN VIEW AND AXONOMETRIC VIEW OF TUBE "B". TUBES "B & C" WILL BE JOINTED TOGETHER AS ONE ROTATING TUBE HINGE TUBE "B", WILL BE THE STATIONARY BOTTOM HALF OF TUBE HINGE DESIGN.

NEXT, FABRICATE TUBE "B" AT LENGTH SHOWN ABOVE AND INSERT TUBE "A" INTO TUBE "B". WELD TUBE "A" TO TUBE "B" ALL AROUND AT BOTTOM OF TUBES, (PRIOR TO INSTALLING TUBE "C" OVER TUBE "A".) LEAVE 1/16" GAP BETWEEN OUTSIDE WALL OF TUBE "A" AND INSIDE WALL OF TUBE "B" (GAP SHALL BE CONTINUOUS ALL AROUND TUBE.)

NEXT, CUT CURVED PROFILE FOR BOTTOM OF TUBE "C", AS PER DETAILS ON SHEET DT3. THE CURVED PROFILES OF "B & C" SHALL MATCH UP WHEN TOGETHER.

IMPORTANT NOTE!!!:
* DO NOT WELD ALONG THE EXPOSED EDGE OF THE CURVED HINGE PROFILE AT TOP OF TUBE "B". CURVED BOTTOM OF TUBE "C" MUST SLIDE OVER CURVED TOP OF TUBE "B" AS TUBE HINGE ROTATES AROUND TUBE "A".




ELEVATION
OF TUBE "C"
SCALE: 1-1/2"=1'-0"

PLAN OF
TUBE "C"
SCALE: 1-1/2"=1'-0"

LINE OF TUBE "A"
INSIDE TUBES "B" & "C"

COMPOSITE ELEV
OF TUBES "A", "B" & "C"
SCALE: 1-1/2"=1'-0"

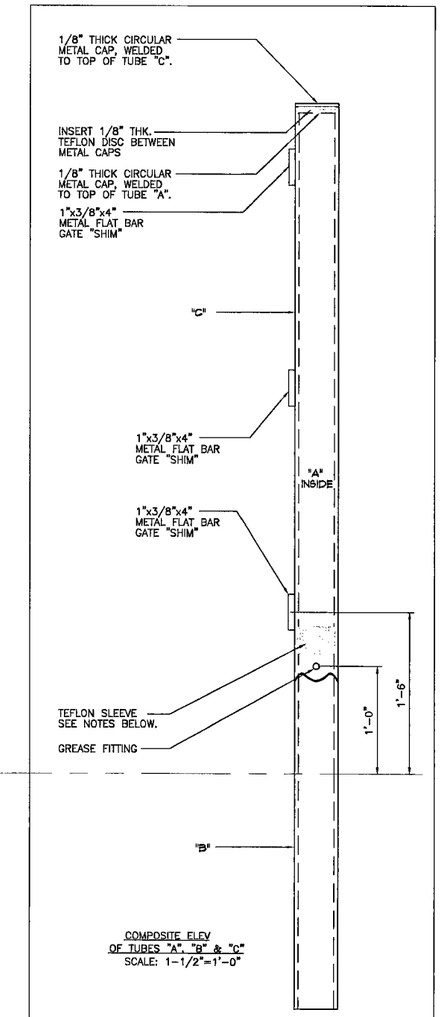
STEP 3: CUT TUBE "C" AT LENGTH SHOWN. SEE PLAN & ELEV. FOR TUBE DIAMETER.

NEXT, DRILL THREADED HOLE FOR "GREASE FITTING" AS SHOWN IN DETAILS ON SHEET DT3 AND INSERT THREADED GREASE FITTING. TUBE "C" IS THE ROTATING "UPPER HALF" OF THE HINGE DESIGN.

NEXT, WELD THE METAL FLAT BAR GATE "SHIM" TO TUBE "C" & ABOVE AT LOCATION SHOWN IN TUBE "C" AXONOMETRIC (DETAIL ON SHEET DT3.

TUBE "B" AND "C" SHALL HAVE IDENTICAL INNER & OUTER DIAMETERS.

NEXT, SLIDE TUBE "C" OVER TUBE "B". ALIGN SLOPED SECTION OF TUBE "C" WITH MATCH UP THE CURVED PROFILE OF TUBE "B" AS SHOWN IN THE ABOVE DRAWING. TUBE "C" WILL ROTATE AROUND TUBE "A". ALLOW CONT'S 1/16" GAP BETWEEN TUBE "C" & "A".




COMPOSITE ELEV
OF TUBES "A", "B" & "C"
SCALE: 1-1/2"=1'-0"

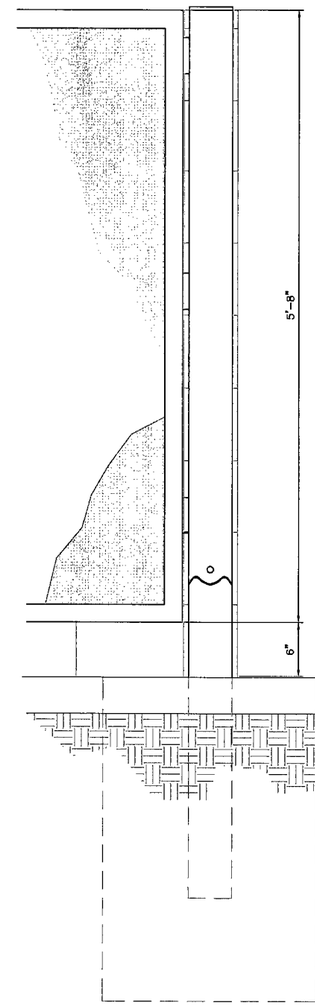
IMPORTANT !!! READ !!! PRIOR TO WELDING GATE SHIMS TO GATE FRAME, FRAME UP FORMWORK FOR TRASH ENCLOSURE WALL FOOTING. THEN, FRAME UP FORMWORK FOR "GATE HINGE" FOOTING. SHORE UP "GATE HINGES" IN PRECISE LOCATIONS AS SHOWN IN TRASH ENCLOSURE PLAN & DETAIL SHOWN ON SHEET DT2. THE GATE HINGES ARE TO BE SHORED UP IN PLACE PRIOR TO FOOTING FOR TRASH ENCLOSURE WALL BEING POURED. THE FOOTING FOR THE "GATE HINGES" IS TO BE POURED AT SAME TIME AS THE TRASH ENCLOSURE WALL FOOTINGS. MAKE SURE TO SHORE UP THE GATE HINGES WITH THE "GATE SIDE", OF THE HINGE AT A 90° ANGLE TO THE SHORT WALLS OF THE TRASH ENCLOSURE. SEE DETAILS TO LOCATE THE "GATE SIDE" OF THE HINGE IN PLAN VIEW. ENSURE HINGE SHIMS OF OPPOSING "GATE HINGES" ARE FACING EACH OTHER WHEN SHORED UP AND PRIOR TO POURING FOOTINGS.

IMPORTANT !!! READ !!! PRIOR TO WELDING GATE SHIMS TO GATE FRAME, FILL TUBES "A" WITH CONCRETE AND CONSOLIDATE CONCRETE BY MECHANICAL VIBRATION. DO THIS AFTER FOOTINGS FOR WALL AND HINGES HAVE BEEN POURED.

STEP 4: FABRICATE 1/8" THK. CIRCULAR METAL CAP FOR TUBE "C" AND WELD CAP TO TOP OF TUBE "C" AS SHOWN ON ELEV'S ABOVE.

NEXT, INSTALL VIRGIN PTFE (TEFLON) SLEEVE 3" LONG, WITH 1/16" WALL THICKNESS. SLEEVE TO BE FACTORY CHEMICALLY ETCHED ON OUTSIDE DIAMETER FACE ONLY. OUTSIDE DIAMETER OF SLEEVE TO MATCH INSIDE DIAMETER OF TUBE "C" EXACTLY.

NEXT, INSERT TEFLON SLEEVE AT LOCATION SHOWN ON ELEVATION ABOVE AND ADHERE SLEEVE TO INSIDE FACE OF TUBE "C", USING EPOXY ADHESIVE. INTERIOR DIAMETER FACE OF TEFLON TO BE LEFT UNALTERED TO PROVIDE A SELF LUBRICATING SURFACE AT THE POINT OF FRICTION BETWEEN TUBES "C" & "A".




FRONT ELEVATION
OF COMPLETED HINGE ASSEMBLY
WITH PARTIAL VIEW OF GATE
SCALE: 1-1/2"=1'-0"

"GATE HINGE"
COMPLETE ASSEMBLY (1)
1-1/2"=1'-0"

PROFESSIONAL ENGINEER - STATE OF NEVADA
DARREN W. LaMAY
EXP. 12-31-09
CIVIL
No. 15273
6/3/09

STRUCTURAL ONLY

REVISIONS

| NO. | DATE: | DESCRIPTION | APP'D |
|---|---|---|---|
| | | | |

DEPARTMENT OF PUBLIC WORKS
400 EAST STEWART
LAS VEGAS, NEVADA 89101
(702) 229-6276

poggemeyer design group, Inc.
6960 Smoke Ranch #110 - Las Vegas, NV 89128 - p) 702.255.8100 - f) 702.255.8375

TITLE: NEON BONEYARD PARK
CITY OF LAS VEGAS

SHEET: TRASH ENCLOSURE SHEET 3

| | | |
|---|---|---|
| DRAWN BY: BMR/BKB/BAM | 5/4/09 | |
| DESIGNED BY: BMR/BKB/BAM | 5/4/09 | |
| CHECKED BY: WK/SCD | 5/4/09 | |
| PROJECT NO: 080896 | SCALE: N.T.S. | |

PROFESSIONAL ENGINEER - STATE OF NEVADA
SAM C. DUNHAM
EXP. 12-31-10
CIVIL
No. 7866

Sheet
DT4
14 of 37

CLV DRAWING NO.
676-12

HANSEN NO. 17994

G:\080896A NEON BONEYARD\CIVIL\DET4.dwg Mon, 01 Jun 2009 - 11:43am