DESIGN CRITERIA

1. ASSUME ASTM A-36 STEEL PLATE & STRUCTURAL SHAPES.
2. DESIGN IN Accordance H-20 (16.0 KIP WHEEL LOAD) LOADING CRITERIA.
3. USE 16.0 KIP WHEEL LOAD WITH A 40" IMPACT FACTOR (22.500 Ibs.)
4. $F_{b} = 0.66F_{y}$ ($F_{y} = 36.0$ ksi)
5. $F_{v} = 0.40F_{y}$ ($F_{y} = 14.40$ ksi).
6. LOAD DISTRIBUTION AREA @ 10'x10'.
7. REFER TO ASTM C-857 AS LAST REVISED WHERE APPLICABLE.
8. USE AWS ER70-6 CO2 GAS SHIELDED WELDING WIRE.

NOTES

THIS FRAME AND COVER ASSEMBLY HAS BEEN DESIGNED IN ACCORDANCE WITH THE LOADING CRITERIA SET FOURTH BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO) AND THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM C-857 AS LAST REVISED) WHERE APPLICABLE.

THIS FRAME AND COVER ASSEMBLY HAS BEEN DESIGN FOR USE IN TRAFFIC APPLICATION, OR IN AREAS SUBJECTED TO H-20-44 TRAFFIC CONDICTIONS.
2" ENGRAVED LETTERING - Flat area 5" x 12 1/2"

4 BOLTHOLES ON 35 1/2" DIA B.C.

(3) S.S. PICKBARS 180° APART

CUSTOM LOGO

BOTTOM VIEW

SECTION A-A

SECTION B-B

APPROVED AS NOTED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE November 5, 2009 TAT

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**NOTES:**
1.) RUN THROUGH RING LOOPS IN CASTING
2.) PLACED EACH CORNER
3.) TIED TO HATCH STUDS HINGE SIDE
4.) PLACED EACH CORNER
5.) TIED TO HATCH STUDS ALL FOUR CORNERS
6.) ALL REBAR GRADE 60

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### BAR # DESCRIPTION/SIZE | QTY. | SPACING
---|---|---
1 | #3 BAR @ 60" | 2 | NA |
2 | #3 BAR @ 24" | 2 | NA |
3 | #6 BAR @ 52" | 8 | 5" O.C.E.W. |
4 | #6 BAR @ 74" | 4 | 2 1/2" O.C.E.W. |
5 | #3 BAR @ 36" | 4 | SEE NOTE 1 |
6 | #3 BAR @ 36" BEND @ 90° | 4 | SEE NOTE 2 |
7 | #3 BAR @ 60" | 2 | NA |
8 | #3 BAR @ 24" | 2 | NA |
9 | #6 BAR @ 52" | 2 | 69" + TO |
10 | #5 BAR @ 74" | 6 | 2 1/2" O.C.E.W. |
11 | #6 BAR @ 60" | 1 | SEE NOTE 3 |
12 | #3 BAR @ 36" BEND @ 90° | 4 | SEE NOTE 4 |
13 | #4 BAR @ 24" BEND @ 90° | 4 | SEE NOTE 5 |
14 | WSDOT ITS 35' RING AND COVER 268822FT | 1 | N/A |
15 | INWESCO 23 HATCH 35A57 | 1 | N/A |

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THIS DRAWING HAS BEEN PREPARED FOR YOUR REVIEW AND APPROVAL
- [ ] APPROVED AS SUBMITTED
- [ ] APPROVED AS CORRECTED
- [ ] RESUBMIT

PLEASE CHECK THE APPROPRIATE BOX AND RETURN ONE SIGNED COPY SO THAT WE MAY PROCEED WITH PRODUCTION.

SIGNED__________________________

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DRAFTED: R.H.  DATE: 9/1/09
WSDOT HEAVY DUTY 465 LIDS

QC: J.T.  SCALE: NTS

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NOTES:
1) PLACED EACH CORNER
2) 5/8" X 3/4" SS GROUND STUD WITH SS NUTS AND SS WASHERS SHALL BE ATTACHED TO BRASS GROUNDING LUG IN VAULT AND BONDING INSERT IN LID.
3) BRASS GROUNDING LUG AND BONDING INSERT TO BE ATTACHED VIA #8 MIN. X 4" (FT.) TINNED BRAIDED COPPER BONDDING JUMPER
4) ALL REBAR GRADE 60