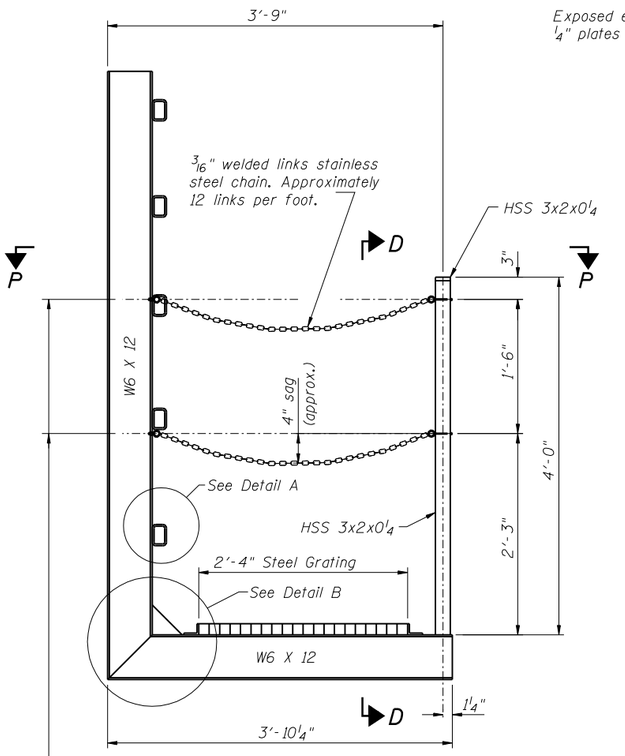
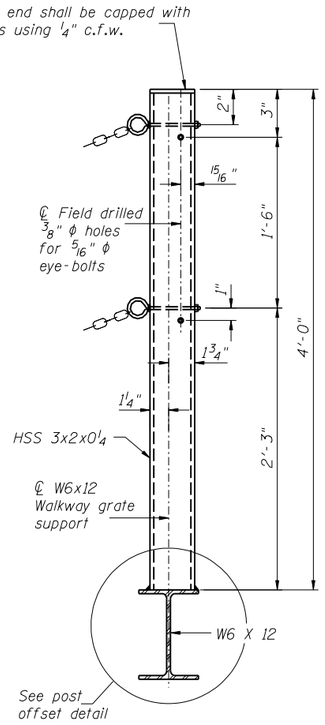
C:\OwrProjImpl\Projects\Yorkville Dam Phase 3\Plans DGN\Gage Station Walkway II.dgn
5:06:51 PM
2/14/2011
Designed By TMM Checked By JJF
Drawn By JJF Checked By TMM

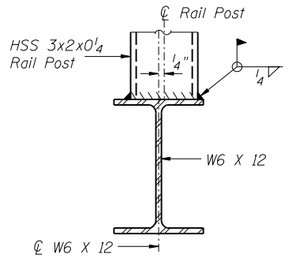



## SAFETY CHAIN ATTACHMENT

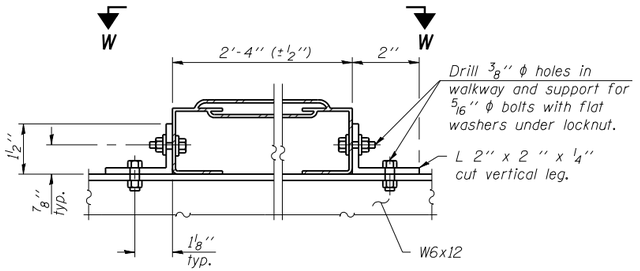
(East side of platform - other sides similar)




## SECTION D-D

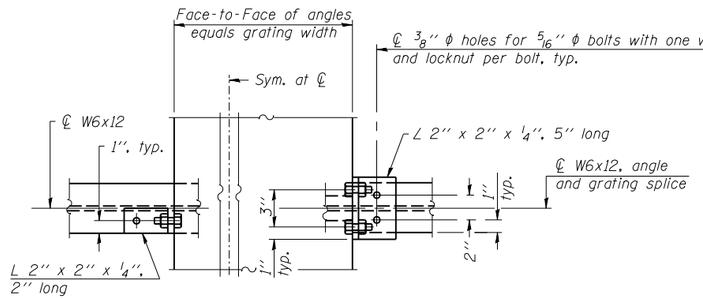



## POST OFFSET DETAIL

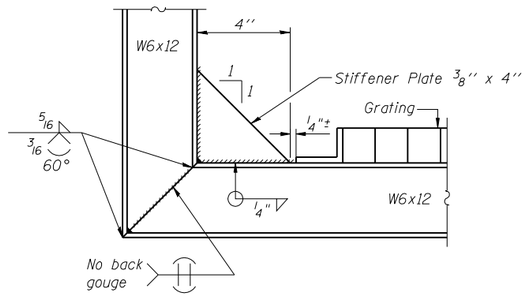



## ALTERNATE FORMED PLANK GRATING DETAILS

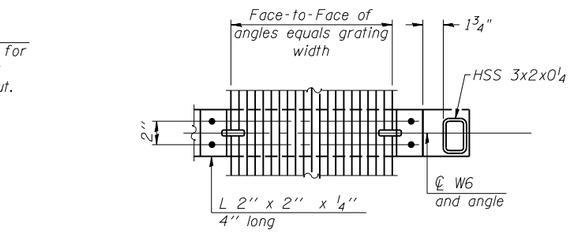
Plank Grating: nominal depth = 2 1/2" (±1/2"); perforated or expanded steel sheet with a non-skid surface (non-serrated) concentrated load capacity = 500 lbs. with 6'-0" clear span.



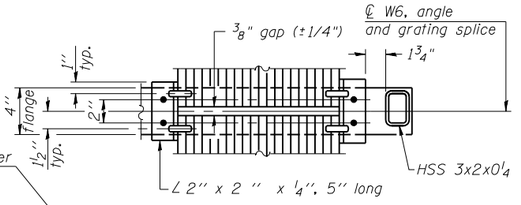

## VIEW W-W




## DETAIL B

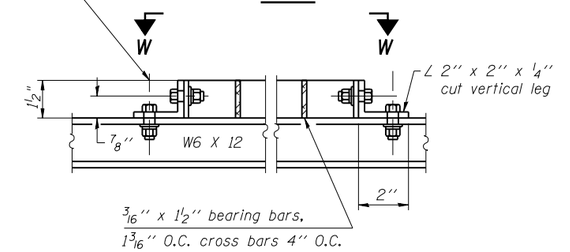



(WALKWAY GRATING CONTINUOUS)

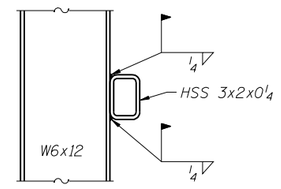



(AT WALKWAY GRATING SPLICE)

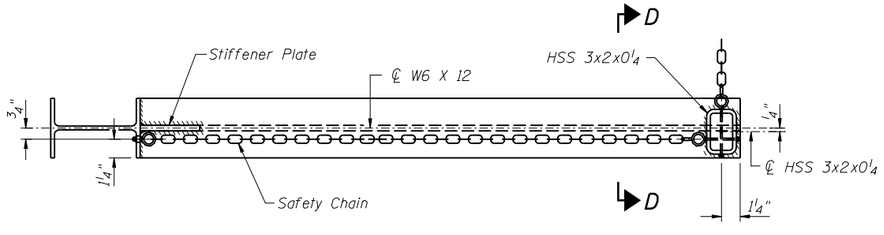
## PLAN




## WELDED BAR GRATING DETAILS




## DETAIL A




## VIEW P-P

Note:
Work this sheet with sheets 12 & 14.

Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment. Field drilled holes must be touched up with galvanized paint.

All steel grating, plates, shapes and pipe shall be hot dip galvanized after shop fabrication according to AASHTO M111. Paint is not permitted.

Contractor shall field check all pertinent existing dimensions shown on plans before submitting shop drawings.

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M 164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

ANCHOR RODS: All - threaded rod conforming to ASTM A307 3/4"ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be epoxy grouted according to Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

SAFETY CHAIN: Safety chain to be type 304L stainless steel suitable for prolonged exterior exposure. A total of approx. 30 feet of chain is required. Maximum sag with HSS section erected = 4" .

GRATING: Grating shall be designed for 100 lbs./sq.ft. live load. Grating tie-down angles may be either bolted to W6x12 after galvanizing or welded to W6x12 before galvanizing, at the Contractor's option. (No weld on grating side).

STRUCTURAL TUBING: Hollow structural steel tubing shall conform to the requirements of ASTM designation A500, Grade B, structurall steel tubing.

All HSS members with exposed ends shall be capped with 1/4" plates using 1/4" c.f.w.

Estimated weight of structural steel = 1,620 pounds (for information only).