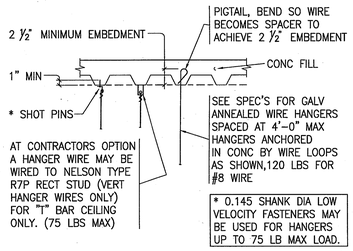
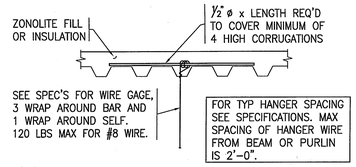
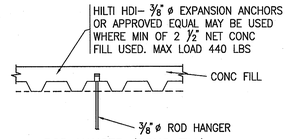


CEILING HANGER AT STEEL DECK (CONC FILL)

HANGERS WITH GREATER LOADS MUST BE CONNECTED TO STEEL BEAMS.



CEILING HANGER AT STEEL DECK (ROOF)

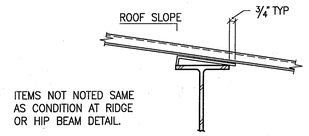


ROD HANGER (CONC FILL)

HANGER DETAILS

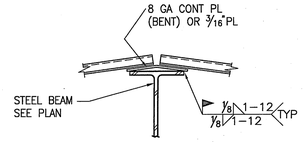
DM1-02

3



*AT PERPENDICULAR BEAM

*TYPICALLY WE SPECIFY BEAM PERPENDICULAR TO ROOF SLOPE. THUS, THIS DETAIL IS TO BE USED ONLY WHEN YOU HAVE THIS CONDITION.



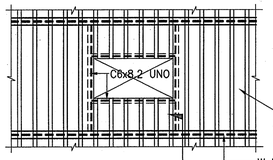
AT RIDGE OR HIP BEAM

NOTE: USE BENT PL WHEN DECK SLOPE RELATIVE TO ROOF BEAM IS ½" TO 12" AND GREATER.

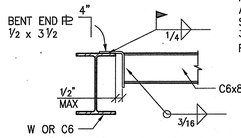
DETAIL FOR LEVEL BEARING OF STEEL DECK

DS1-03

1

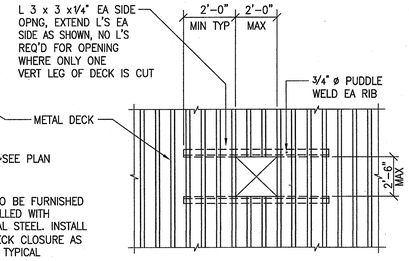


PLAN–OPENING 25" TO 60" (A)



TYPICAL CONNECTION (A)

NOTE:
FRAMING TO BE FURNISHED AND INSTALLED WITH STRUCTURAL STEEL. INSTALL 3/16" PL DECK CLOSURE AS REQUIRED, TYPICAL



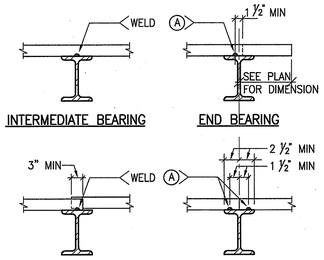
PLAN OPENING TO 24"

NOTE: FRAMING TO BE FURNISHED & INSTALLED BY DECKING CONTRACTOR

OPENINGS IN METAL DECK WITH CONCRETE FILL

DD1-03

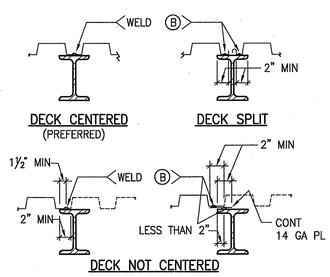
8



INTERMEDIATE BEARING — END BEARING

LAP JOINT — BUTT JOINT

WELDS AT DECK PERPENDICULAR TO BEAMS



DECK CENTERED (PREFERRED) — DECK SPLIT

DECK NOT CENTERED

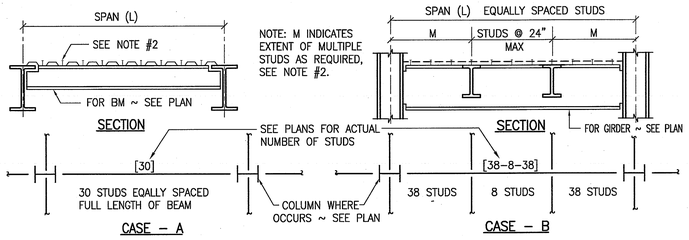
WELDS AT DECK PARALLEL TO BEAMS

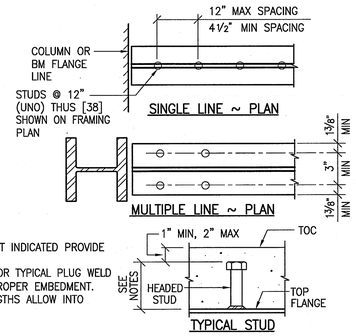
NOTE:
SEE FRAMING PLAN NOTES

TYPICAL METAL DECK TO BEAM WELD DETAILS

DW1-01

6



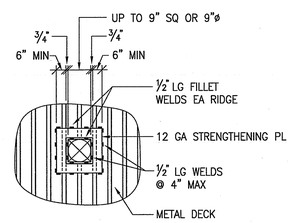


1. ALL HEADED SHEAR STUDS SHALL BE ¾"ø. TOP OF ALL STUDS TO BE 1½" (MIN) ABOVE TOP OF STEEL DECK (TYPICAL) SEE PLANS FOR NUMBER.
2. WHERE STUDS FILL EVERY TROUGH THEN REMAINING STUDS SHALL BE INSTALLED ON TWO OR MORE ROWS STARTING AT EACH END OF BEAM OR GIRDER.
3. CASE "A" STUDS ARE EQUALLY SPACED. IF EQUAL SPACING NOT POSSIBLE DUE TO DECK CONFIGURATION, STRUCTURAL ENGINEER MUST BE NOTIFIED.
4. AT FRAMED AREAS WHERE NUMBER OF STUDS IS NOT INDICATED PROVIDE STUDS AT 12" MAX.
5. STUD WELDED THRU DECKING MAY BE SUBSTITUTED FOR TYPICAL PLUG WELD
6. MAINTAIN 1" CLEARANCE AROUND ALL STUDS FOR PROPER EMBEDMENT.
7. STUDS TO EXTEND AS FAR AS STANDARD STUD LENGTHS ALLOW INTO TOPPING SLAB, UNO.

WELDED STUD LAYOUTS

DT1-01

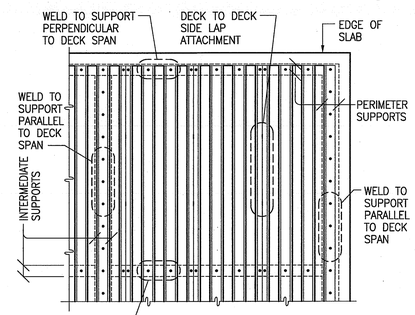
13



SMALL REINFORCED DECK OPENING UP TO 9" MAX

DD1-02

12



PARTIAL PLAN

NOTE:
SEE FRAMING PLAN NOTES FOR WELDING & ATTACHMENT REQUIREMENTS.

TYPICAL METAL DECK ATTACHMENT PATTERN

11

County of Orange
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Architecture & Engineering

Revisions			
Sym.	Descrip.	Date	By

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Sht Title TYPICAL STEEL DECK DETAILS
Project COUNTY OF ORANGE HEALTH CARE AGENCY
401 SOUTH TUSTIN STREET
401 SOUTH TUSTIN STREET
ORANGE, CA 92866
PROJ. NO. 100-042-P210-4200

Plan No.
52333-03608

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