

B1 NOT USED
NOT TO SCALE

STEEL DECKING SHALL BE EITHER TYPE PLB FORMLOK OR B FORMLOK AS MANUFACTURED BY VERCO MANUFACTURING COMPANY, 4340 NORTH 42ND AVENUE, PHOENIX, ARIZONA 85018. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND I.C.C. REPORT NO. ESR-1758P. AN EQUIVALENT DECKING CAN BE SUBSTITUTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. THE EQUIVALENT DECKING MUST MEET OR EXCEED ALL OF THE CRITERIA STATED BELOW.

DECKING SHALL BE FORMED FROM COLD ROLLED ZINC COATED STEEL (A.S.T.M. A 653) SHEETS WITH COATING DESIGNATION G60 (Z180) AND HAVE A MINIMUM YIELD STRENGTH OF 38,000 PSI. DECKING AT EXPOSED EXTERIOR APPLICATIONS SHALL HAVE ZINC COATING DESIGNATION G90 (Z275).

THE DECK PROFILE AND DIMENSION SHALL BE AS FOLLOWS:
CONC. O/ STEEL DECK W/ REIN. CENTERED IN CONC. O/ RIBS

DECK GAGE, WEIGHT AND PROPERTIES SHALL BE AS SELECTED BELOW:

GAGE	WEIGHT (PSF)	I (in ⁴)	+S (in ³)	-S (in ³)	SELECTED DECK
22	1.4	0.175	0.157	0.145	
20	2.3	0.216	0.235	0.240	✓
18	2.5	0.302	0.322	0.335	
16	3.5	0.371	0.411	0.417	

DECK ATTACHMENT TO SUPPORTS PERPENDICULAR TO RIBS SHALL BE WITH 1/2" DIA. EFFECTIVE ARC SPOT (PUDDLE) WELDS WITH A PATTERN AS SELECTED BELOW:

PATTERN DESIGNATION	PATTERN DIAGRAM	SELECTED PATTERN
q4		✓
q7		

TYPE AND SPACING OF DECK ATTACHMENT TO SUPPORTS PARALLEL WITH DECK RIBS SHALL BE AS SELECTED BELOW:

ATTACHMENT TYPE	ATTACHMENT SPACING	SELECTED ATTACHMENT
1/2" DIA. EFF. ARC SPOT WELD	12" O.C.	REQ. W/ q4 PATTERN
1/2" DIA. EFF. ARC SPOT WELD	6" O.C.	REQ. W/ q7 PATTERN

TYPE AND SPACING OF DECK ATTACHMENT AT SIDE LAPS SHALL BE SELECTED BELOW:

ATTACHMENT TYPE	ATTACHMENT SPACING	SELECTED ATTACHMENT
BUTTON PUNCH (BP)	36" O.C.	REQ. W/ B DECK
VERCO SIDE LAP CON. (VSC)	36" O.C.	REQ. W/ PLB DECK

TOTAL THICKNESS, TYPE & REIN. OF CONCRETE OVER DECK SHALL BE AS STATED BELOW:

T _{conc} (in)	CONC. TYPE	REINFORCEMENT
4	NORMAL WEIGHT	#3 REBAR @ 18" O.C. EACH WAY

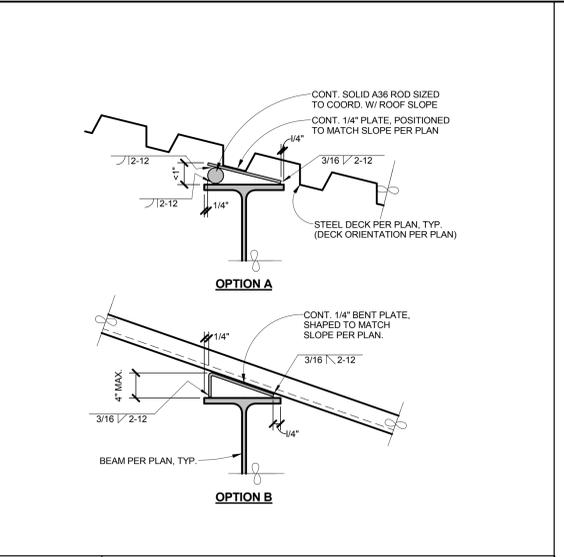
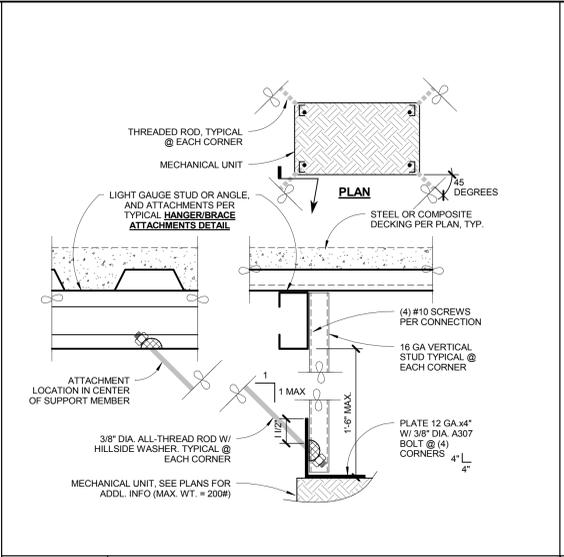
DECK SHALL BE SHORED DURING CONSTRUCTION AND MUST REMAIN SHORED UNTIL 7 DAYS AFTER CONCRETE HAS BEEN POURED IF SELECTED BELOW:
SHORING OF DECK IS REQUIRED:
SHORING OF DECK IS NOT REQUIRED:

SEE DECK ATTACHMENT LAYOUT DETAIL FOR ADDITIONAL INFORMATION.

ALL OPENINGS IN DECK SHALL BE REINFORCED AS SHOWN IN THE SMALL/LARGE OPENINGS IN STEEL DECK DETAIL.

NO MECHANICAL EQUIPMENT, DUCTS OR PIPING SHALL BE SUPPORTED DIRECTLY FROM DECK. ALL PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL FRAMING MEMBERS. SEE S.M.A.C.N.A. FOR SEISMIC BRACING REQUIREMENTS FOR PIPING AND DUCTWORK.

DECK SHALL BE SUPPORTED BY A MINIMUM OF (4) MEMBERS, (3-SPAN MINIMUM)



STEEL DECKING SHALL BE EITHER TYPE PLW2 FORMLOK OR W2 FORMLOK AS MANUFACTURED BY VERCO MANUFACTURING COMPANY, 4340 NORTH 42ND AVENUE, PHOENIX, ARIZONA 85019. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND I.C.C. REPORT NO. ESR-1758P. AN EQUIVALENT DECKING CAN BE SUBSTITUTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. THE EQUIVALENT DECKING MUST MEET OR EXCEED ALL OF THE CRITERIA STATED BELOW.

DECKING SHALL BE FORMED FROM COLD ROLLED ZINC COATED STEEL (A.S.T.M. A 653) SHEETS WITH COATING DESIGNATION G60 (Z180) AND HAVE A MINIMUM YIELD STRENGTH OF 38,000 PSI. DECKING AT EXPOSED EXTERIOR APPLICATIONS SHALL HAVE ZINC COATING DESIGNATION G90 (Z275).

THE DECK PROFILE AND DIMENSION SHALL BE AS FOLLOWS:

DECK GAGE, WEIGHT AND PROPERTIES SHALL BE AS SELECTED BELOW:

GAGE	WEIGHT (PSF)	I (in ⁴)	+S (in ³)	-S (in ³)	SELECTED DECK
22	1.8	0.340	0.283	0.287	
20	2.1	0.423	0.361	0.370	
18	2.7	0.555	0.510	0.511	✓
16	3.3	0.694	0.639	0.639	

DECK ATTACHMENT TO SUPPORTS PERPENDICULAR TO RIBS SHALL BE WITH 1/2" DIA. EFFECTIVE ARC SPOT (PUDDLE) WELDS WITH A PATTERN AS SELECTED BELOW:

PATTERN DESIGNATION	PATTERN DIAGRAM	SELECTED PATTERN
q3		✓
q4		

TYPE AND SPACING OF DECK ATTACHMENT TO SUPPORTS PARALLEL WITH DECK RIBS SHALL BE AS SELECTED BELOW:

ATTACHMENT TYPE	ATTACHMENT SPACING	SELECTED ATTACHMENT
1/2" DIA. EFF. ARC SPOT WELD	12" O.C.	REQ. W/ q3 PATTERN
1/2" DIA. EFF. ARC SPOT WELD	8" O.C.	REQ. W/ q4 PATTERN

TYPE AND SPACING OF DECK ATTACHMENT AT SIDE LAPS SHALL BE AS SELECTED BELOW:

ATTACHMENT TYPE	ATTACHMENT SPACING	SELECTED ATTACHMENT
BUTTON PUNCH (BP)	36" O.C.	REQ. W/ B DECK
VERCO SIDE LAP CON. (VSC)	36" O.C.	REQ. W/ PLB DECK

TOTAL THICKNESS, TYPE & REIN. OF CONCRETE OVER DECK SHALL BE AS STATED BELOW:

T _{conc} (in)	CONC. TYPE	REINFORCEMENT
5 1/4	LIGHT WEIGHT	SEE REINFORCEMENT PLANS

DECK SHALL BE SHORED DURING CONSTRUCTION AND MUST REMAIN SHORED UNTIL 7 DAYS AFTER CONCRETE HAS BEEN POURED IF SELECTED BELOW:
SHORING OF DECK IS REQUIRED:
SHORING OF DECK IS NOT REQUIRED: SEE NOTES BELOW

SEE DECK ATTACHMENT LAYOUT DETAIL FOR ADDITIONAL INFORMATION.

ALL OPENINGS IN DECK SHALL BE REINFORCED AS SHOWN IN THE SMALL/LARGE OPENINGS IN STEEL DECK DETAIL.

NO MECHANICAL EQUIPMENT, DUCTS OR PIPING SHALL BE SUPPORTED DIRECTLY FROM DECK UNLESS SPECIFICALLY NOTED AND DETAIL ON THE PLANS. ALL PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL FRAMING MEMBERS. SEE S.M.A.C.N.A. FOR SEISMIC BRACING REQUIREMENTS FOR PIPING AND DUCTWORK.

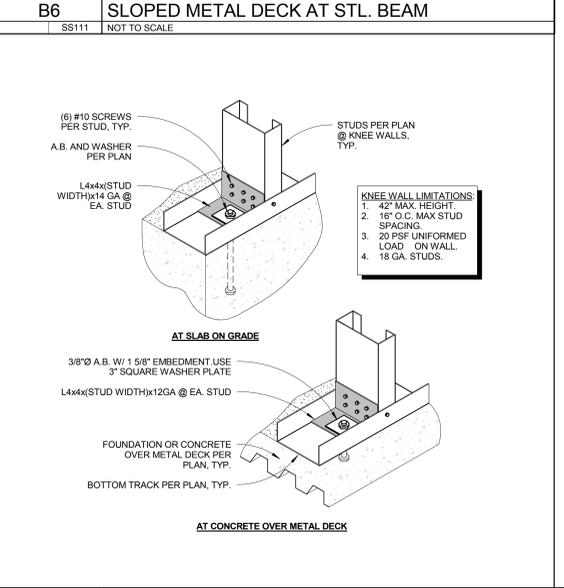
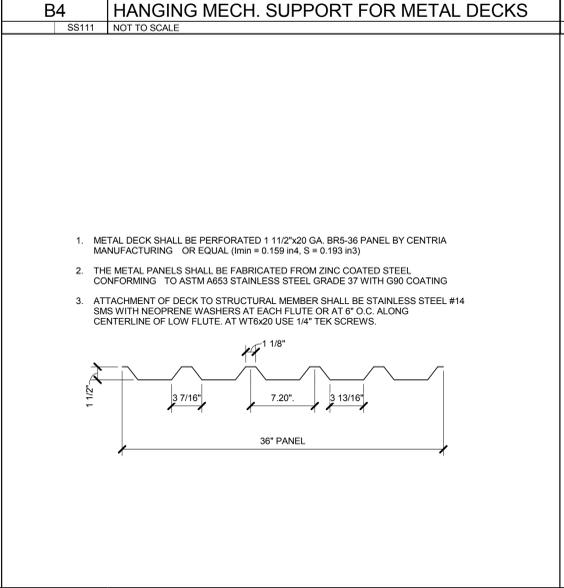
SHORING IS REQUIRED WHERE DECK SPAN IS GREATER THAN 8'-6" AND DECK DOES NOT SPAN MORE THAN (4) BEAMS

CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION, INCLUDING CONCRETE TOPPING ON METAL DECK, FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT OR WITH APPROVAL BY STRUCTURAL ENGINEER.

D1 NOT USED
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D2 METAL STAIR LANDING DECK NOTES (PLB OR B)
SS111 NOT TO SCALE

- ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.
- CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITION.
- EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE RECORD PLANS AND/OR LIMITED OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
- VERIFY CONSTRUCTION DOCUMENTS WITH THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE THE EXISTING RECORD PLANS.
- EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED ON PLANS, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY.
- PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR ALTERATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS THAT REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THOSE ELEMENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO OWNER.
- IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE PLANS, NOTIFY THE STRUCTURAL ENGINEER. PROVIDE ALL WORK AND MATERIALS NECESSARY TO LIMITED TO, DRY ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING OR EXCESSIVE DEFLECTION, SAGGING, TWISTING AND DIFFERENT SIZE, ORIENTATION, SPACING, GRADE QUALITY OR MATERIAL.
- DO NOT CUT ANY EXISTING RE-BAR OR FRAMING MEMBERS NOT DETAILED ON STRUCTURAL CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL HAVE ALLOWANCE TO REMOVE ANY OVER POUR OF EXISTING FOOTINGS TO ALLOW PLACEMENT OF NEW FOOTINGS IN A CAREFUL MANNER.



D8 METAL ROOF DECK NOTES (PLW2 OR W2)
SS111 NOT TO SCALE

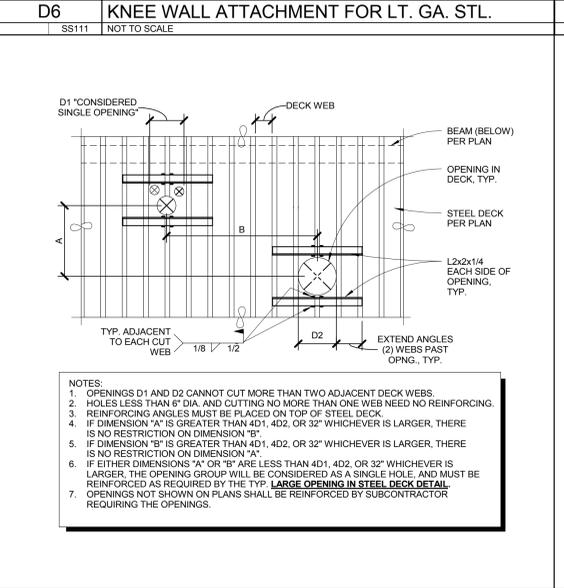
NOTES:

- REINFORCING MEMBERS MUST BE PLACED ON TOP OF STEEL DECK.
- IN CONCRETE OVER STEEL DECK SITUATIONS, IF THE OPENING OR OPENING GROUP OCCURS IN ONE DECK UNIT, THE OPENING OR OPENING GROUP MAY BE CUT BEFORE POURING CONCRETE. IF THE OPENING OR OPENING GROUP CUTS THROUGH TWO DECK UNITS, THE DECK SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND HAS CURED FOR SEVEN DAYS MIN. AT THE TIME OF POURING, SUITABLE SLEEVES OR BULKHEADS SHALL BE PLACED AROUND OPENINGS.
- WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", THE SITUATION MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR SUPPLEMENTAL SUPPORT STEEL REQUIREMENTS PRIOR TO PROCEEDING.
- OPENINGS NOT SHOWN ON PLANS SHALL BE REINFORCED BY SUBCONTRACTOR REQUIRING THE OPENINGS.

F1 NOT USED
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F2 EXISTING CONDITIONS NOTES
SS111 NOT TO SCALE

F1 NOT USED
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F8 LARGE OPNGS. IN METAL DECK
SS111 NOT TO SCALE

NOTES:

- REINFORCING MEMBERS MUST BE PLACED ON TOP OF STEEL DECK.
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- OPENINGS NOT SHOWN ON PLANS SHALL BE REINFORCED BY SUBCONTRACTOR REQUIRING THE OPENINGS.

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HMC PROJECT #1393002-000

Drawing Title
TYPICAL STEEL DECK NOTES AND DETAILS

Approved: Project Director

Project Title
Mental Health Psychosocial Rehab Recovery and Health Care for Homeless Veteran Center

Project Number
570-217

Building Number
37

Drawing Number
SS111
Dwg. 92 of 197

Location
2615 E. CLINTON AVE, FRESNO, CA 93703

Date
08/11/2014

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Office of Construction and Facilities Management

Department of Veterans Affairs