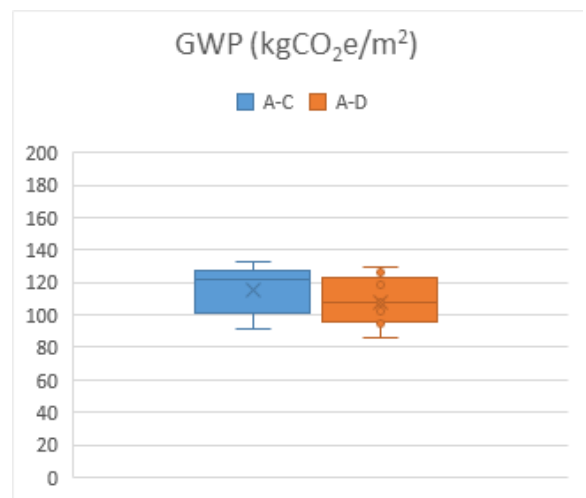


30'x45' COMPOSITE STEEL OFFICE BAY

INCLUDED IN LCA:

- (3)-BEAM #1 - *W21x44 TO W24x55*
- (1)-BEAM #2 - *W24x62 TO W21x93*
- 3/4"Øx4" HEADED STUDS - 146 TO 182*
- STEEL CONNECTIONS - 0.06 TO 0.25 PSF*
- 2" WIDE RIB GALVANIZED COMPOSITE DECKING, 20 GA.*
- CONCRETE = 3,000 PSI, LIGHTWEIGHT (115 PCF), 20-29% SCMs*
- WWR 6x6 W1.4xW1.4*
- ASTM A615, GRADE 60 REBAR - 0.00 TO 0.15 PSF*

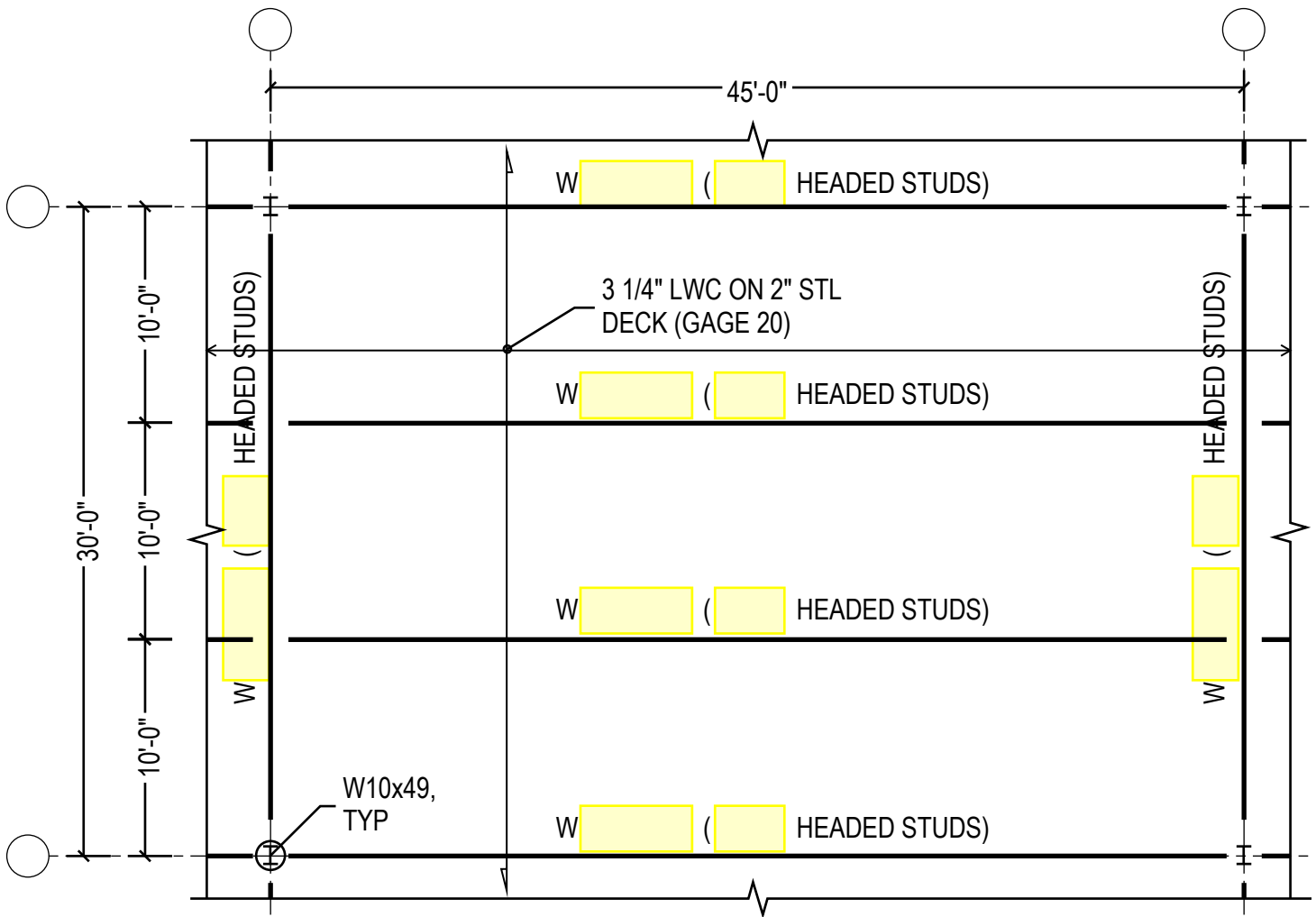
NOTE: ITALICS INDICATES ITEMS WITH VARIABLE DESIGN BY DIFFERENT DESIGNERS.



PROJECT	SEI SE2050 Working Group
TITLE	Embodied Carbon Intensity Diagrams



Appendix: This is the sheet that was given to designers to design the "typical" bay



OFFICE (STEEL)

NOTES:

1. LOADING CRITERIA:
 SDL: 10 PSF LL: 50 (R) + 15 PSF (NR - PARTITIONS)
2. MATERIAL CRITERIA:
 CONCRETE = 3,000 PSI, LIGHTWEIGHT (115 PCF)
 REINFORCEMENT = WWR 6x6 W1.4xW1.4, ASTM A185
 STEEL DECK = ASTM A653, GAGE 20
 W-SHAPES = ASTM A992
 HEADED STUDS = 3/4"Øx4" AWS D1.1 TYPE B
3. UNSHORED CONSTRUCTION. CONSIDER CONSTRUCTION LIVE LOAD OF 20 PSF.

ADDITIONAL DESIGN OUTPUT:

1. [] PSF STEEL CONNECTION WEIGHT (OVER BAY AREA)
2. [] LBS REBAR TOTAL IN BAY (IF ANY)

PROJECT	SEI SE2050 Working Group	DATE	04/14/2020
TITLE	Embodied Carbon Intensity Plots	DRAWN BY	KRP
	Example Systems		
	System #1		

