Project: federal street Location: JST1 Floor Joists Floor Joist [2012 International Building Code(2012 NDS)] SERIES AJS 25 / 11.875 - Boise Cascade x 18.0 FT @ 16 O.C. Section Adequate By: 44.7% Controlling Factor: End Reaction		Lindsey Architects Lindsey Architects 4 Market Place Drive Suite 201B York Maine 03909 StruCalc Version 9.0.2.6 10/15/2016 11:02:21 PM
Web StiffenersNoNoSUPPORT LOADSABLive Load360plfDead Load135plfTotal Load495plf		A
I-JOIST PROPERTIES SERIES AJS 25 / 11.875 - Boise Cascade Base Values Adjusted		JOIST DATA Center   Span Length 18 ft
Moment Cap: Mcap = $6960$ ft-l Cd = 1.00		Unbraced Length-Top 0 ft Unbraced Length-Bottom 0 ft Floor sheathing applied to top of joists-top of joists fully braced.
Shear Stress: $Vcap = 1490$ lb Cd = 1.00	Vcap' = 1490 lb	Sheathing/sheetrock applied to bottom of joists-bottom of joists fully braced. Floor Duration Factor 1.00
End Reaction: $Rcap = 955$ lb Cd = 1.00	Rcap' = 955 lb	JOIST LOADING Uniform Floor Loading <u>Center</u>
w/ web stiffeners: RcapWS = $1335$ lb Cd = 1.00	RcapWS' = 1335 lb	Live Load LL = 40 psf
Interior Reaction: $IRcap = 2690 \text{ lb}$ Cd = 1.00	IRcap' = 2690 lb	Dead LoadDL =15psfTotal Load $TL =$ 55psfTotal Load $TL =$ 70.0ptf
w/ web stiffeners: IRcapWS = $3190$ lb $Cd = 1.00$	IRcapWS' = 3190 lb	TL Adj. For Joist Spacing wT = 73.3 plf
E.I.: EI = 519 lb-	in2 El' = 519 lb-in2	
Controlling Moment2970 ft-lb 9.0 Ft from left support of span 3 (Right Sp Created by combining all dead and live loa Controlling Shear: -660 lb At right support of span 2 (Center Span) Created by combining all dead and live loa	ads.	
<b>Comparisons with required sections:</b> E.I.: Moment: Shear:	Req'd Provided   325 in2-lb E6 519 in2-lb xE6   2970 ft-lb 6960 ft-lb   -660 lb 1490 lb	3