



Ministry of Higher Education and Scientific Research
University of Salahaddin
College of Engineering
Architectural department



Section, Elevation and electricity

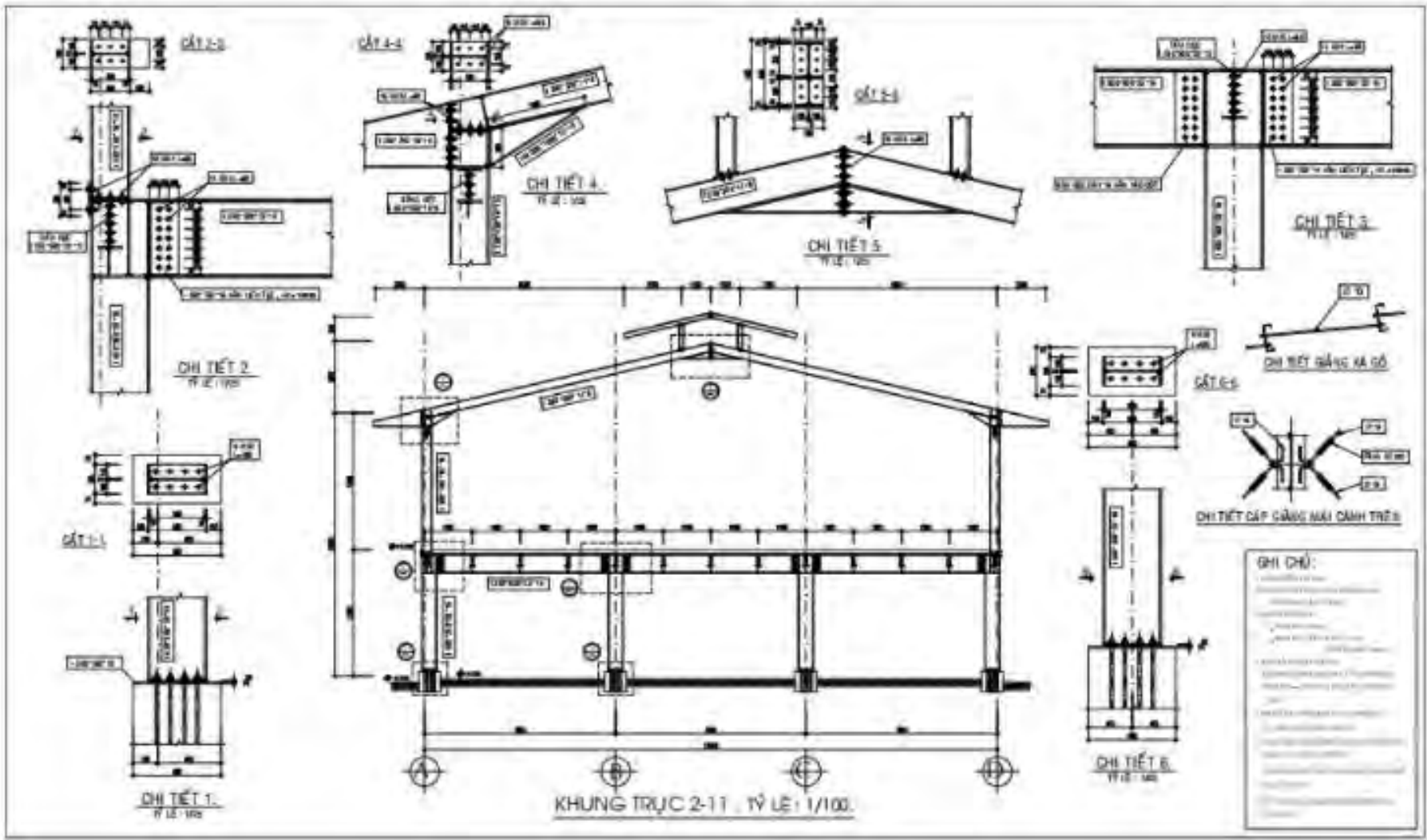
Lect. By: assist. Lect. Sakar Yousif

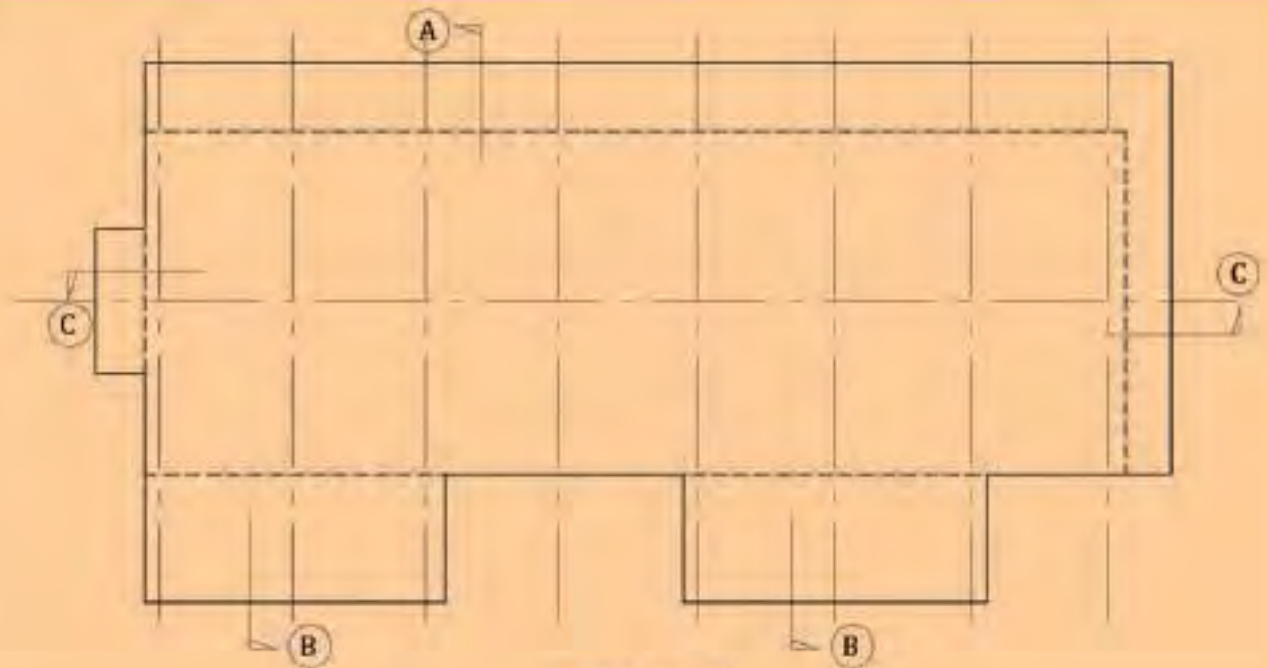
2.4.2023

Contents

- Section drawings
- Elevation drawings
- Electricity distribution

Section drawings

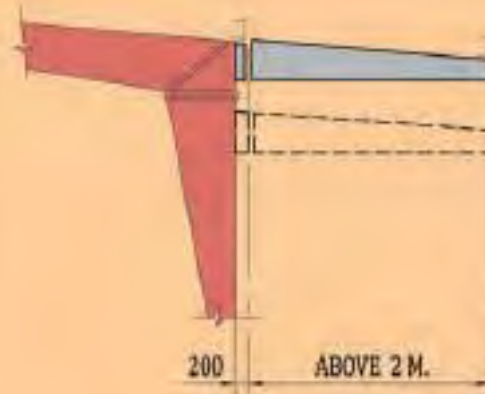




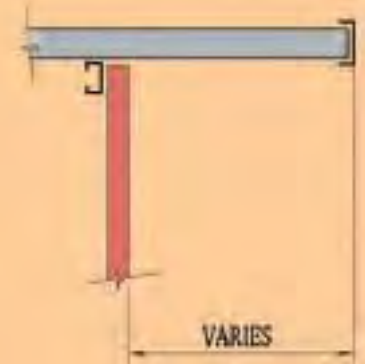
ROOF PLAN



SECTION A



SECTION B



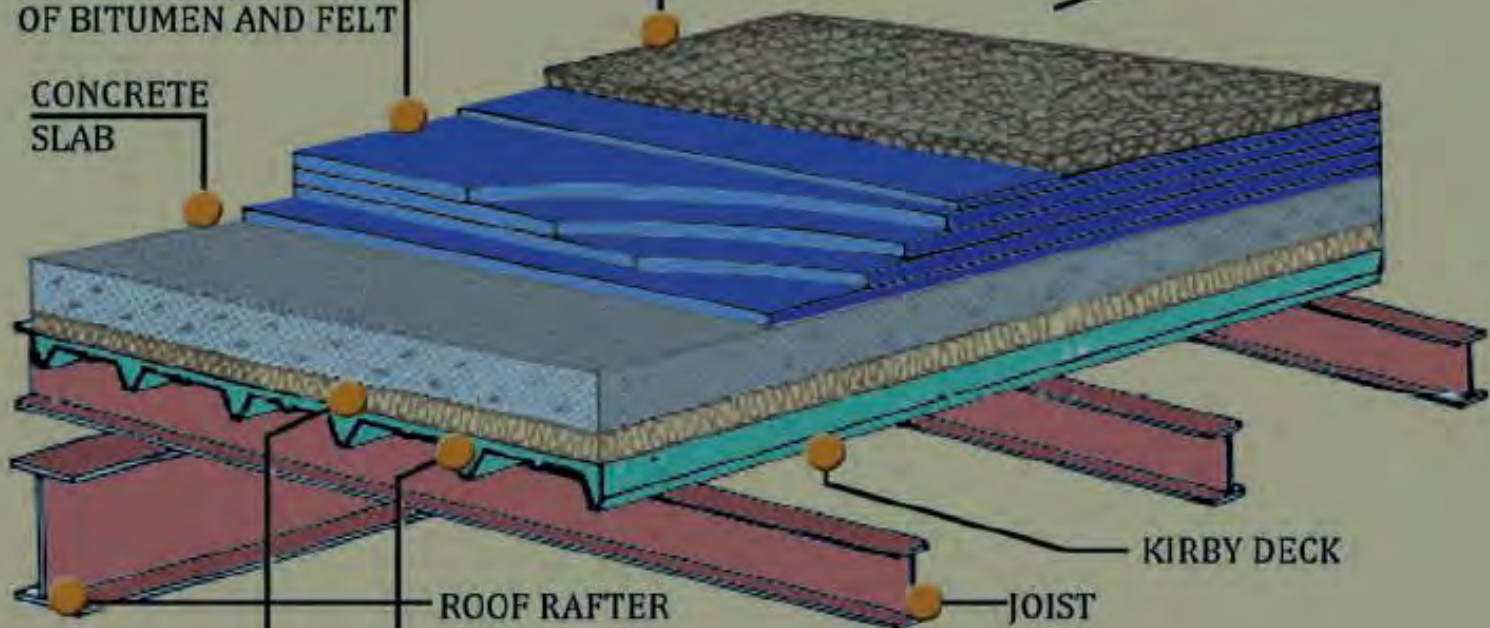
SECTION C

GRAVEL OR SLAG EMBEDDED
IN POURING OF BITUMEN

ALTERNATIVE LAYERS
OF BITUMEN AND FELT

CONCRETE
SLAB

SLOPE 0 - 0.25:10



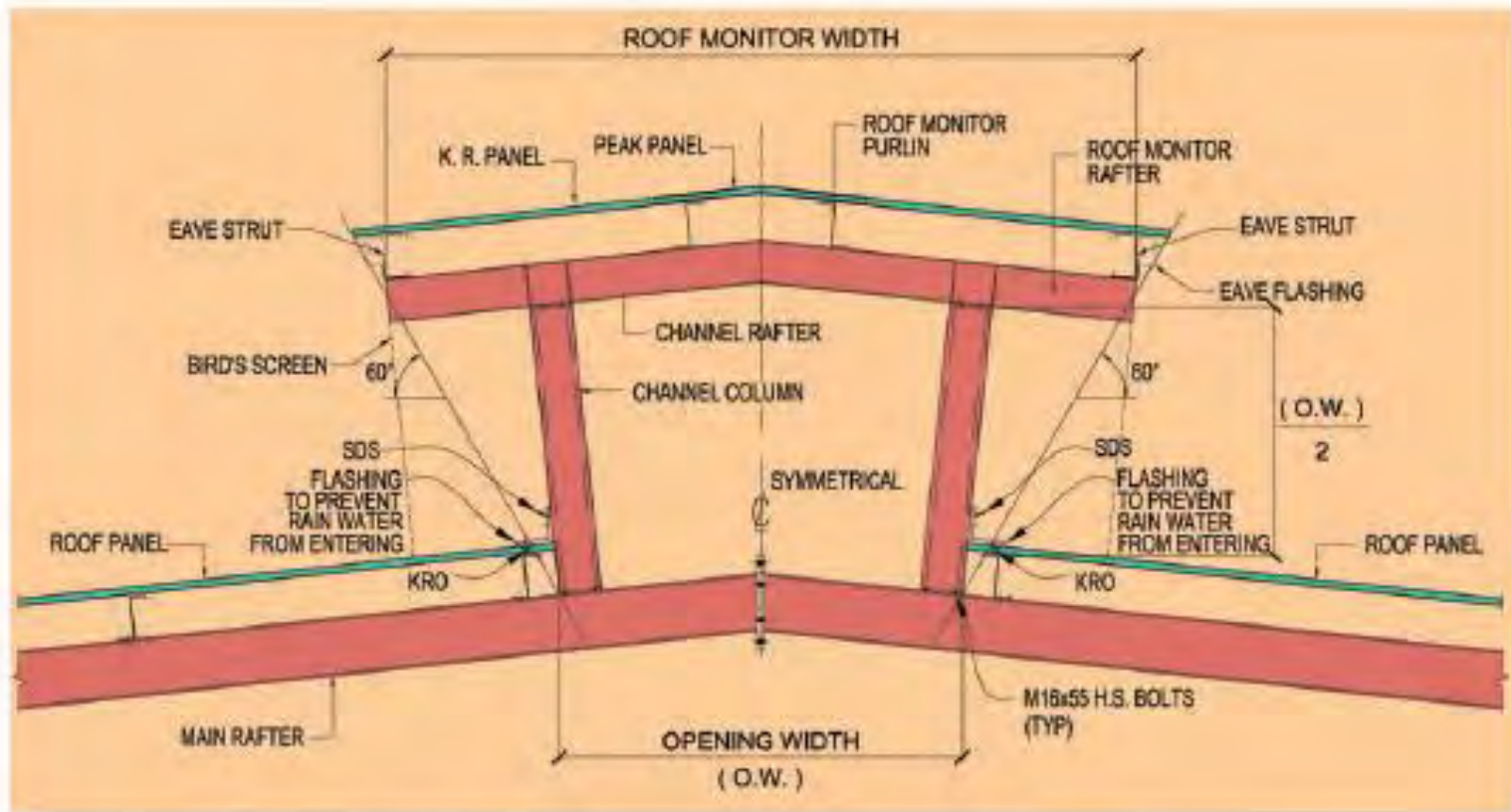
KIRBY DECK

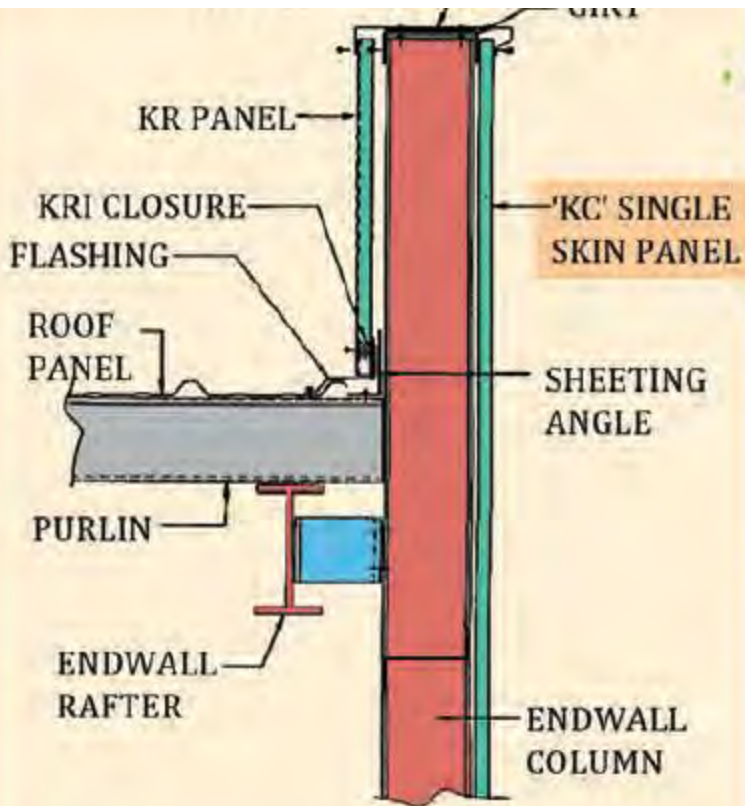
JOIST

ROOF RAFTER

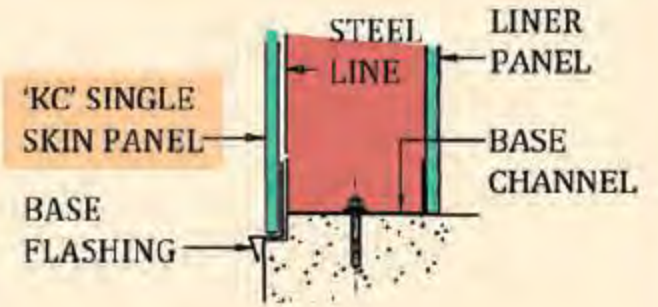
INSULATION
OPTIONAL

VAPOUR BARRIER
(OPTIONAL)

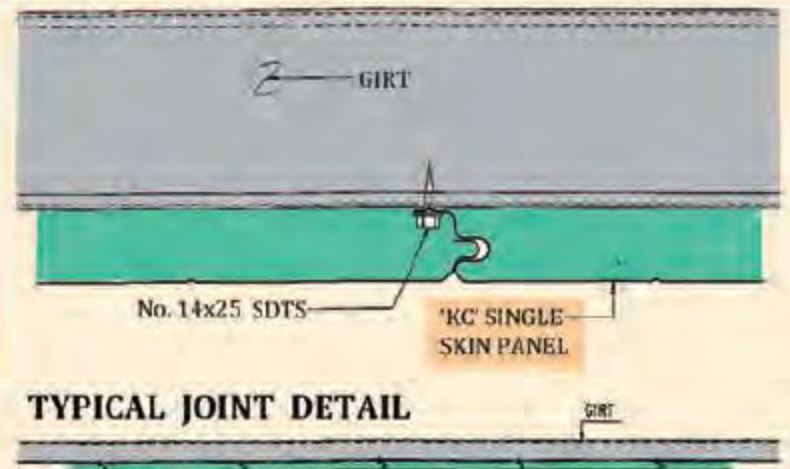




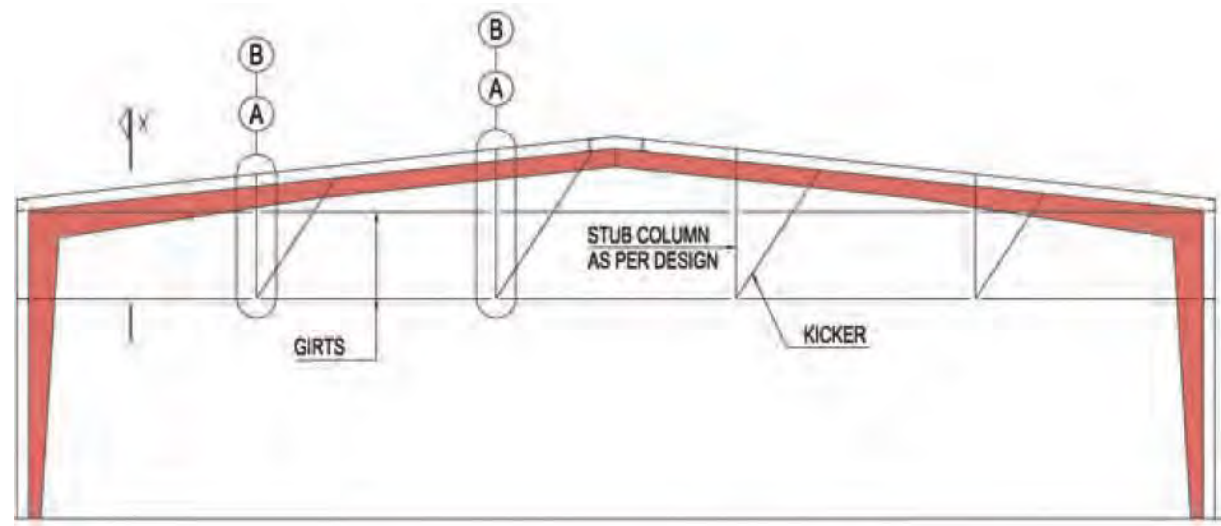
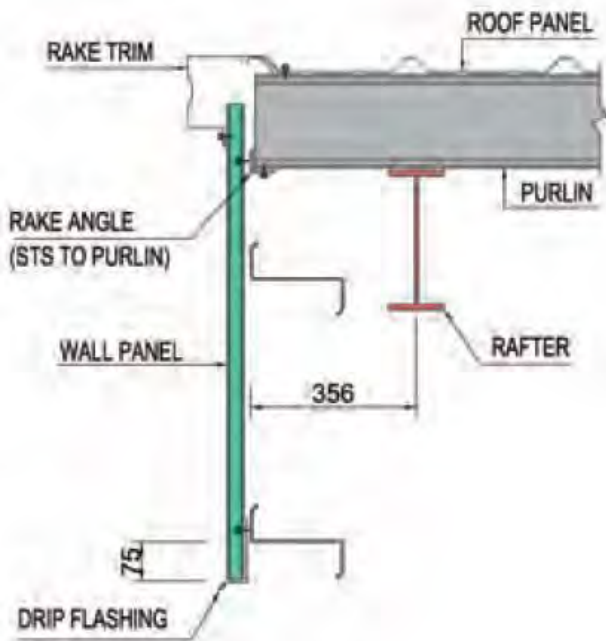
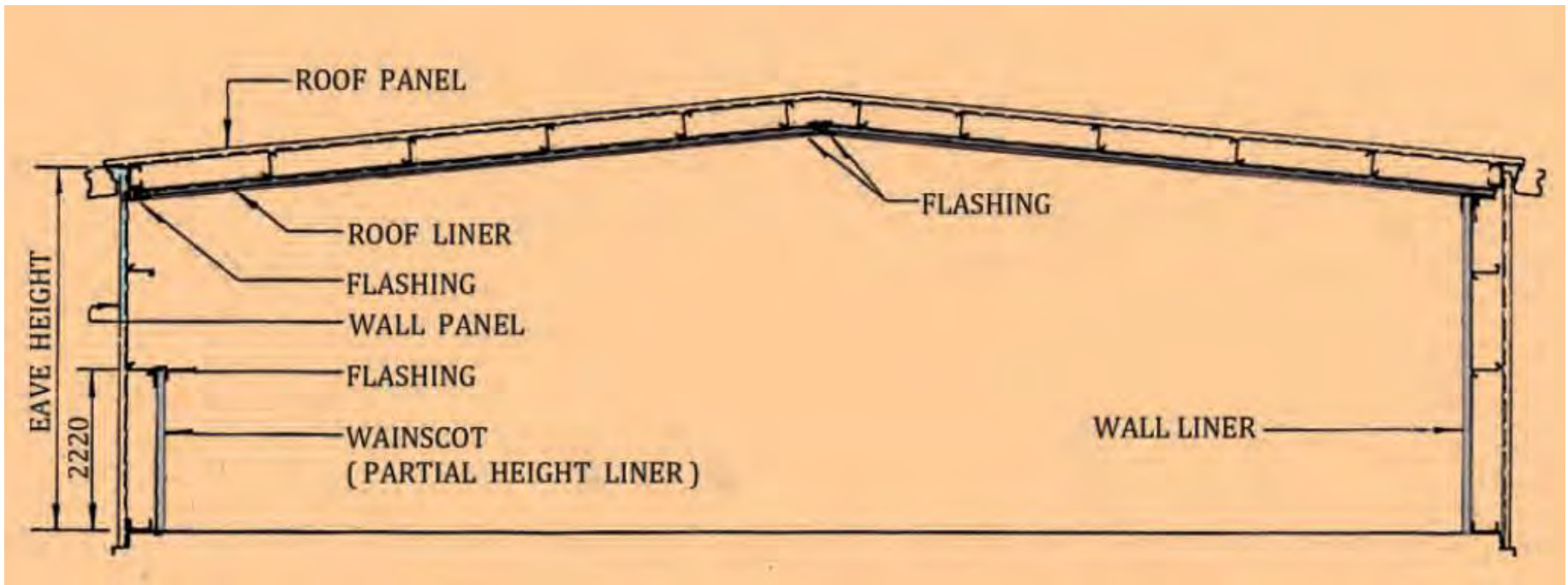
SECTION AT ENDWALL



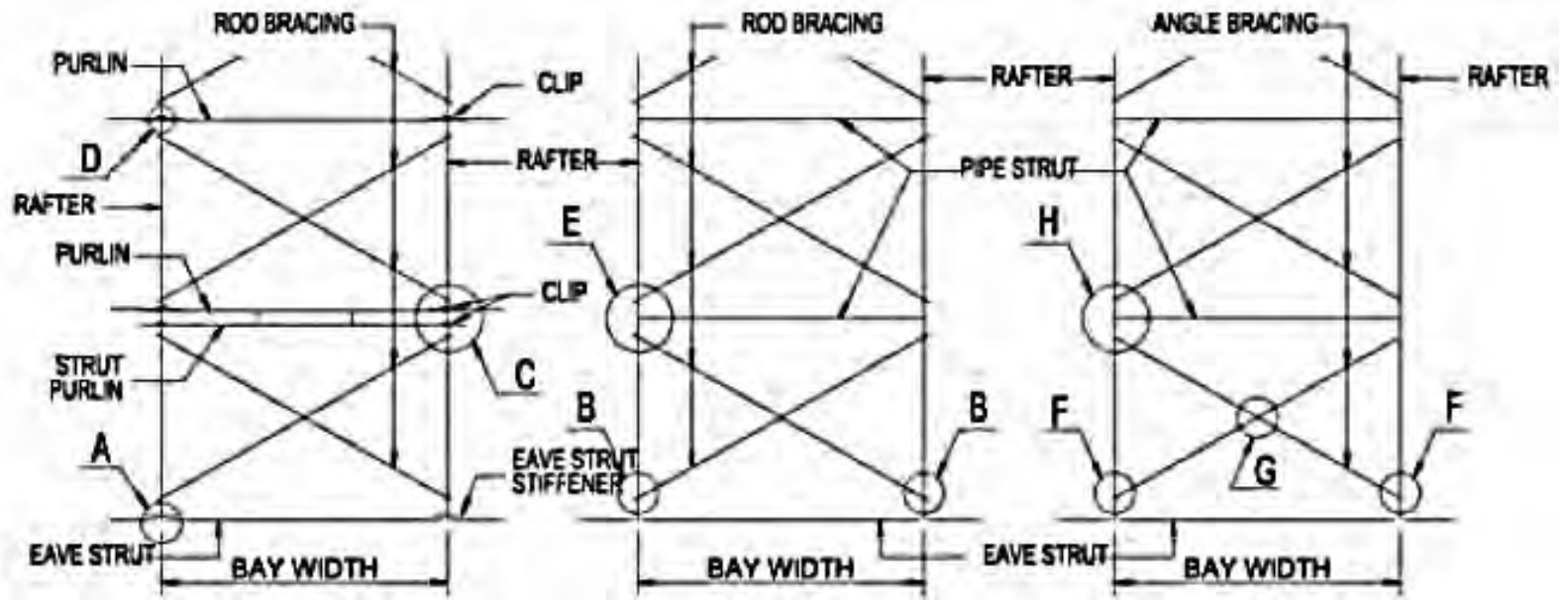
DETAIL AT BASE



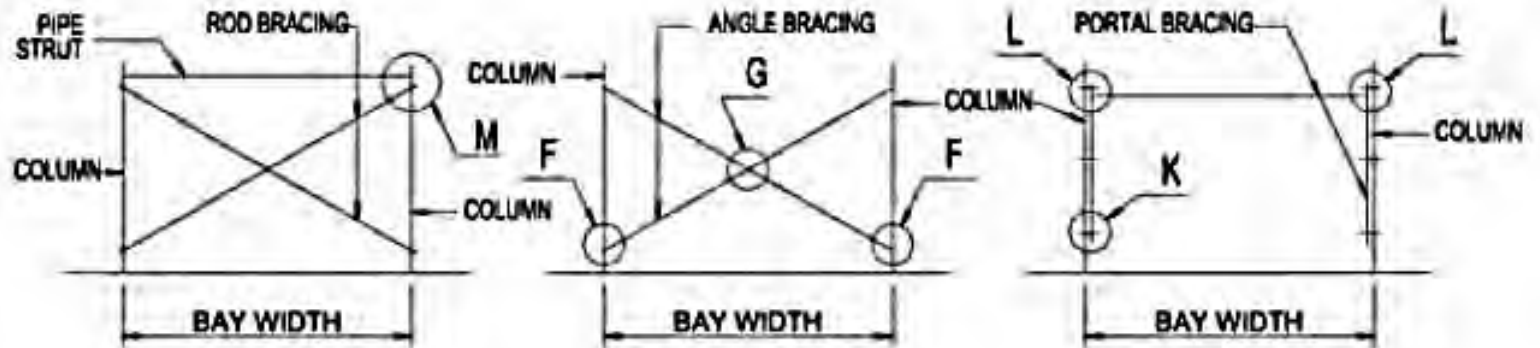
TYPICAL JOINT DETAIL



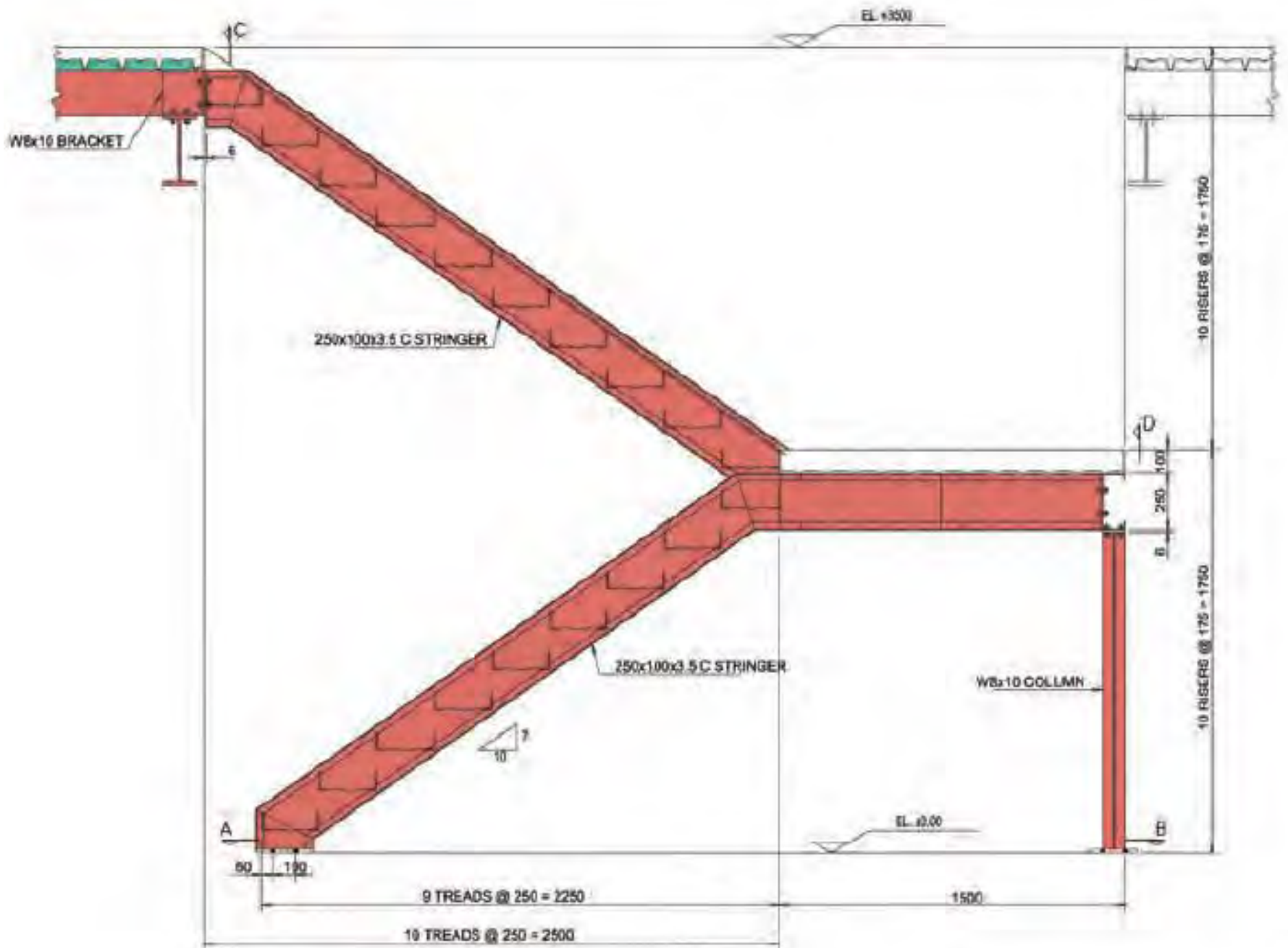
ENDWALL FRAMING ELEVATION
 (PARTIALLY OPEN WITH STUB COLUMNS & KICKERS)



BRACINGS AT ROOF

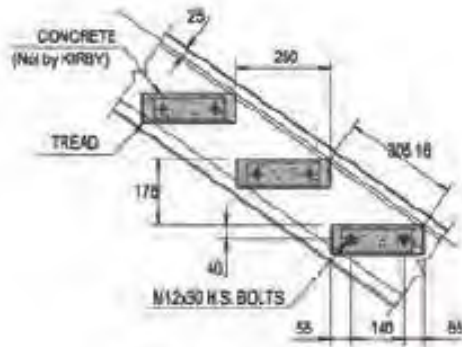


BRACINGS AT SIDEWALL

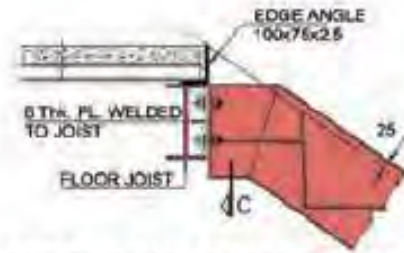


ELEVATION

ELEVATION



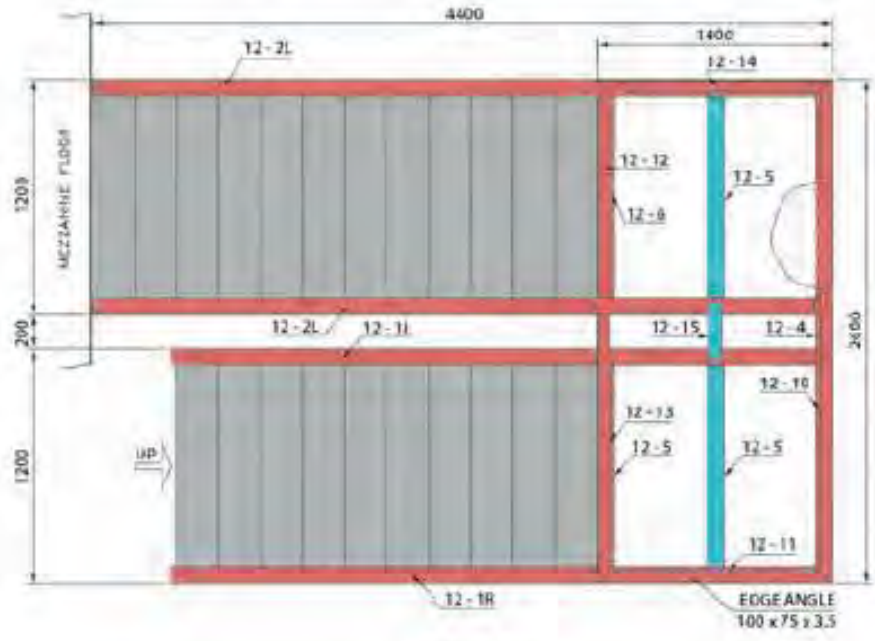
TYPICAL TREAD DETAIL



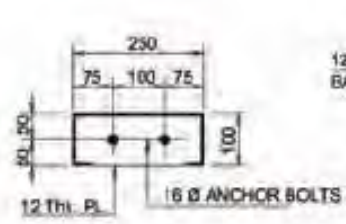
CONNECTION TO MEZZANINE FLOOR JOIST



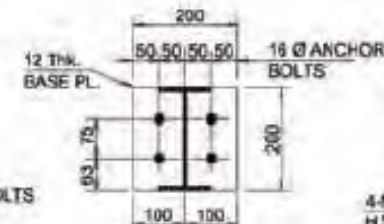
FRAMED OPENING FOR STAIRS



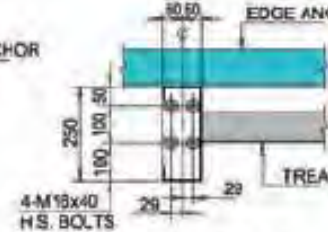
PLAN



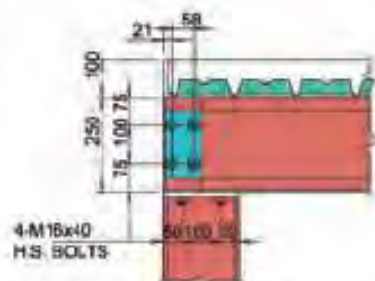
SECTION - A



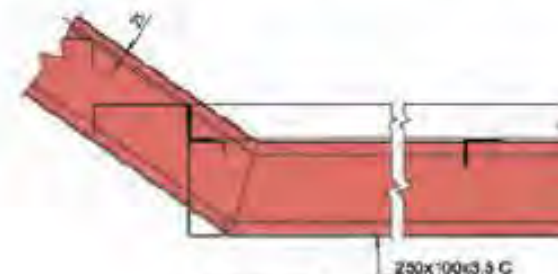
SECTION - B



SECTION - C

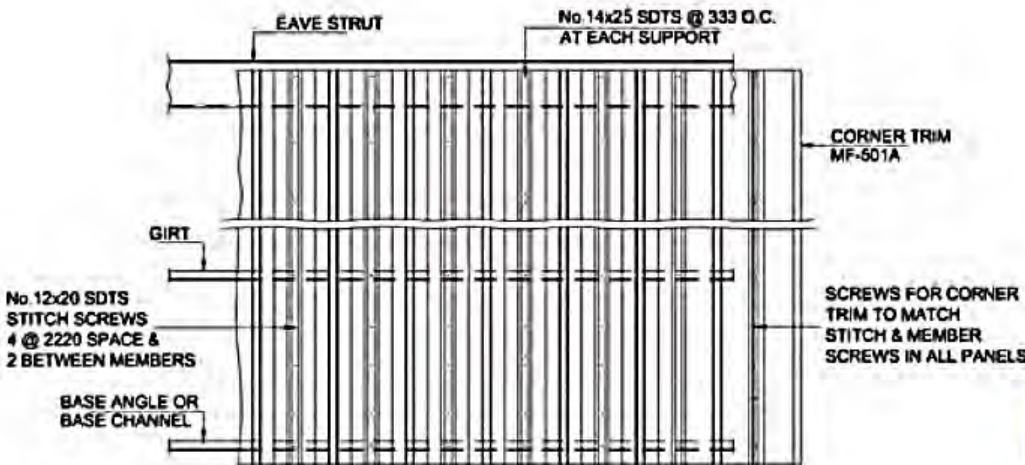
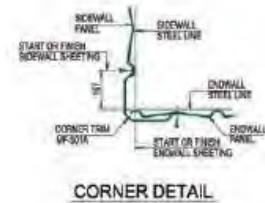
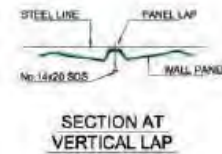
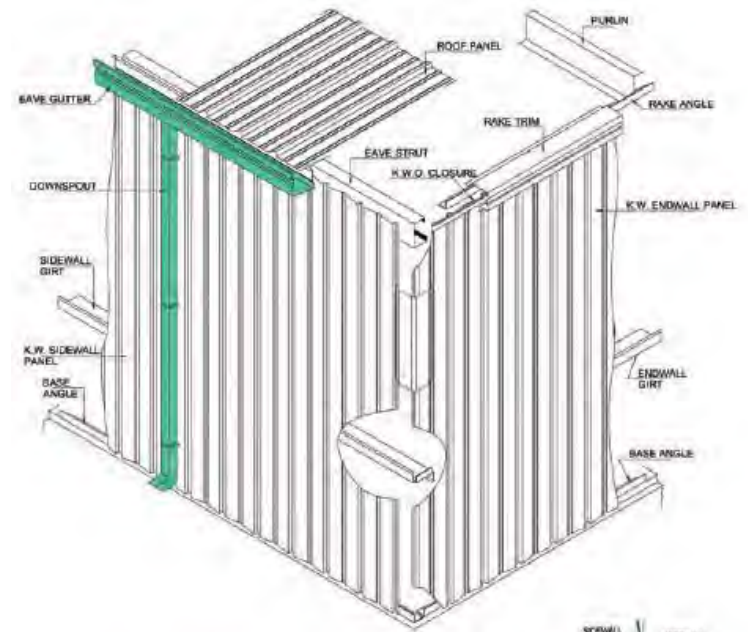


VIEW - D



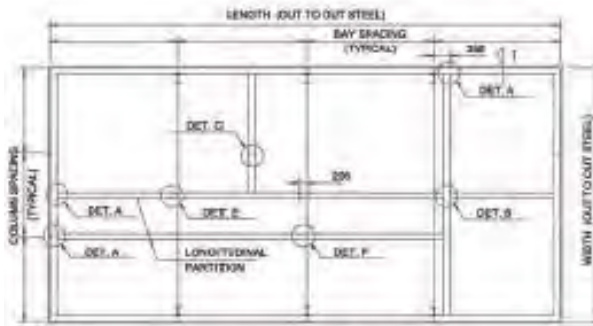
SECTION - E

Elevation drawings

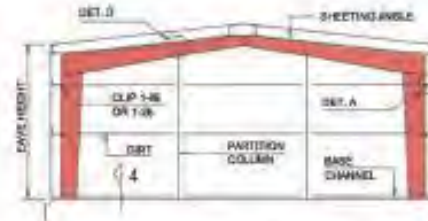


K.W. WALL PANEL FASTENER LAYOUT

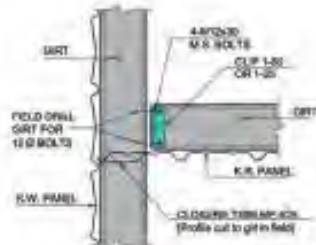
SDS I SOTS TABLE		
INSULATION SIZE	PANEL TO STRUCTURE	PANEL TO PANEL
0 to 60	No. 14 x 25	No. 12 x 20
75 to 100	No. 14 x 50	No. 12 x 20
110 to 150	No. 14 x 76	No. 12 x 20



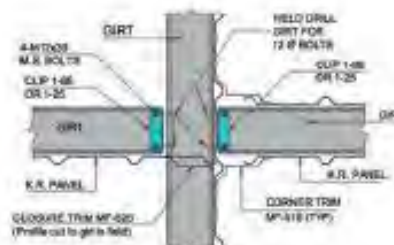
PARTITION WALL PLAN



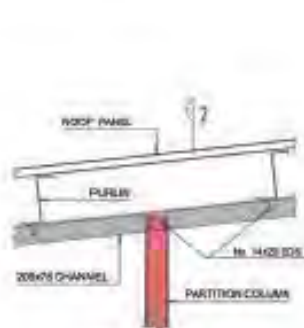
SECTION -1 (TRANSVERSE PARTITION)



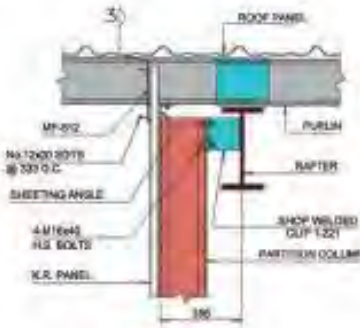
DETAIL 'A'
PLAN SHOWING PARTITION GIRT CONNECTION & CLOSURE FLASHING



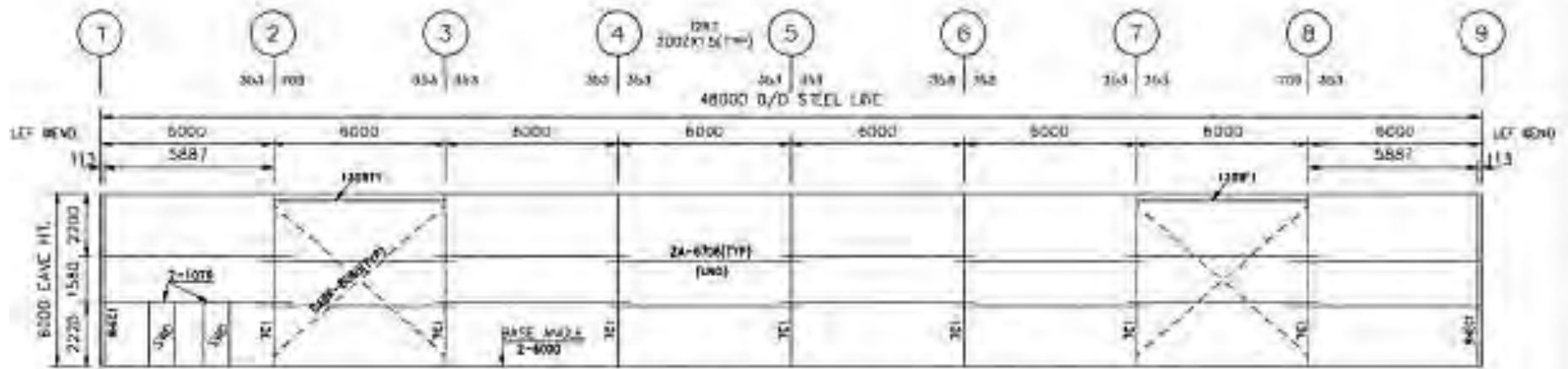
DETAIL 'B'
PLAN SHOWING INTERSECTION OF TRANSVERSE & LONGITUDINAL PARTITION WALLS



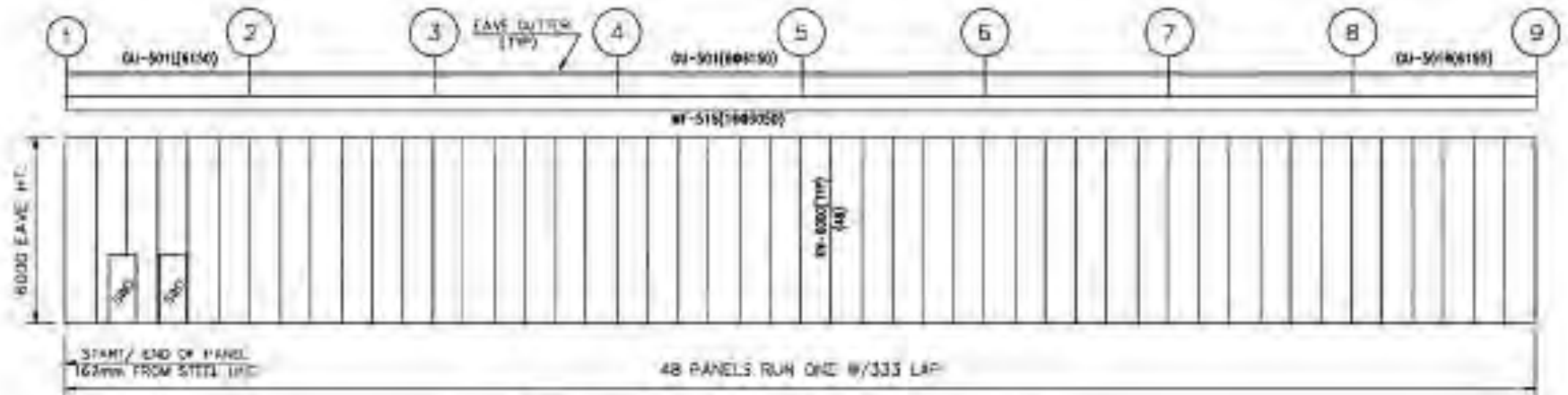
DETAIL 'C'
TRANSVERSE SECTION SHOWING COLUMN & GIRT CONNECTION AT ROOF BETWEEN TWO FRAMES



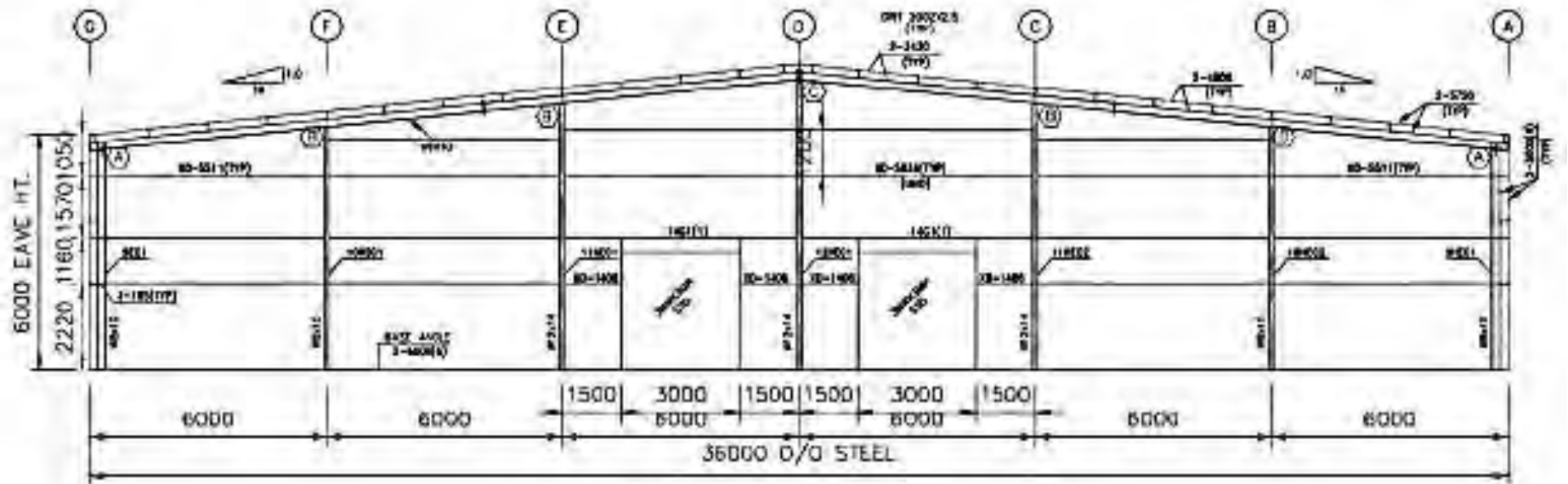
DETAIL 'D'
LONGITUDINAL SECTION SHOWING PARTITION COLUMN CONNECTION TO RAFTER & FLASHING AT ROOF



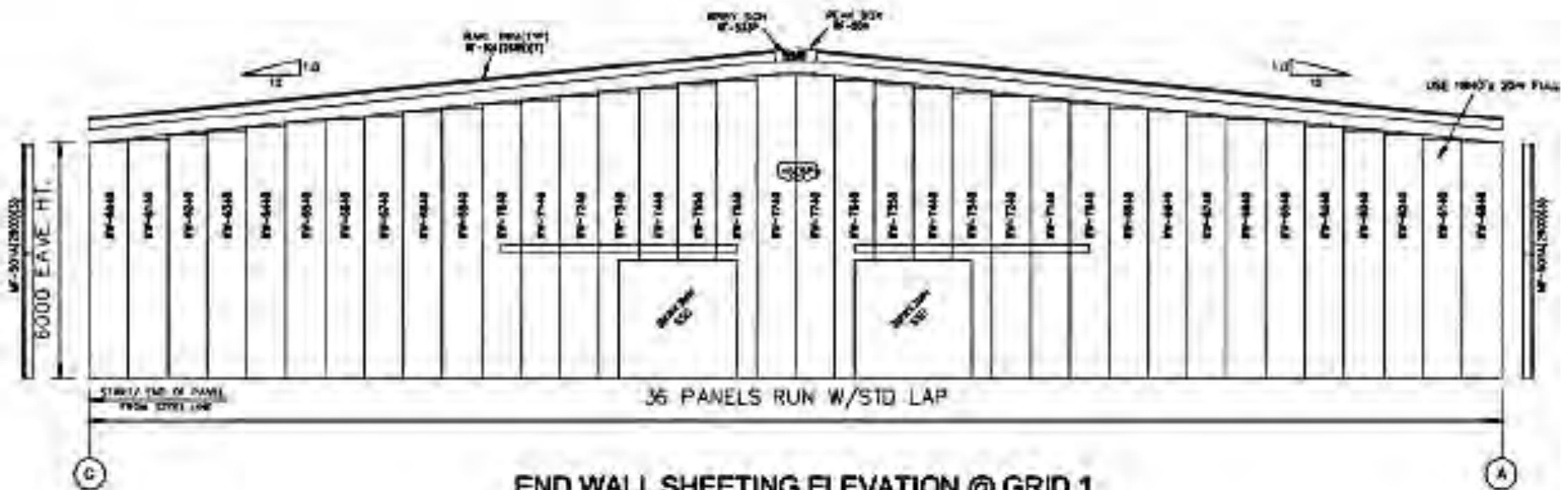
SIDE WALL FRAMING ELEVATION @ GL A (AS DRAWN)
 SIDE WALL FRAMING ELEVATION @ GL G (OPP HAND)
 S.W.D @ GL-A ONLY



SIDE WALL SHEETING ELEVATION @ GL A (AS DRAWN)
 SIDE WALL SHEETING ELEVATION @ GL G (OPP HAND)
 S.W.D @ GL-A ONLY

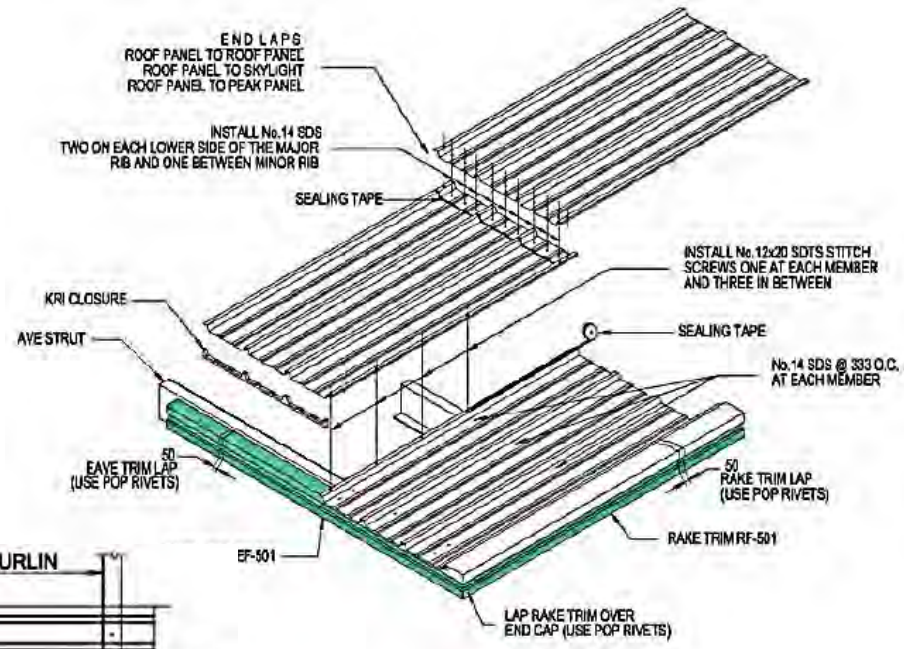


END WALL FRAMING ELEVATION @ GRID 1

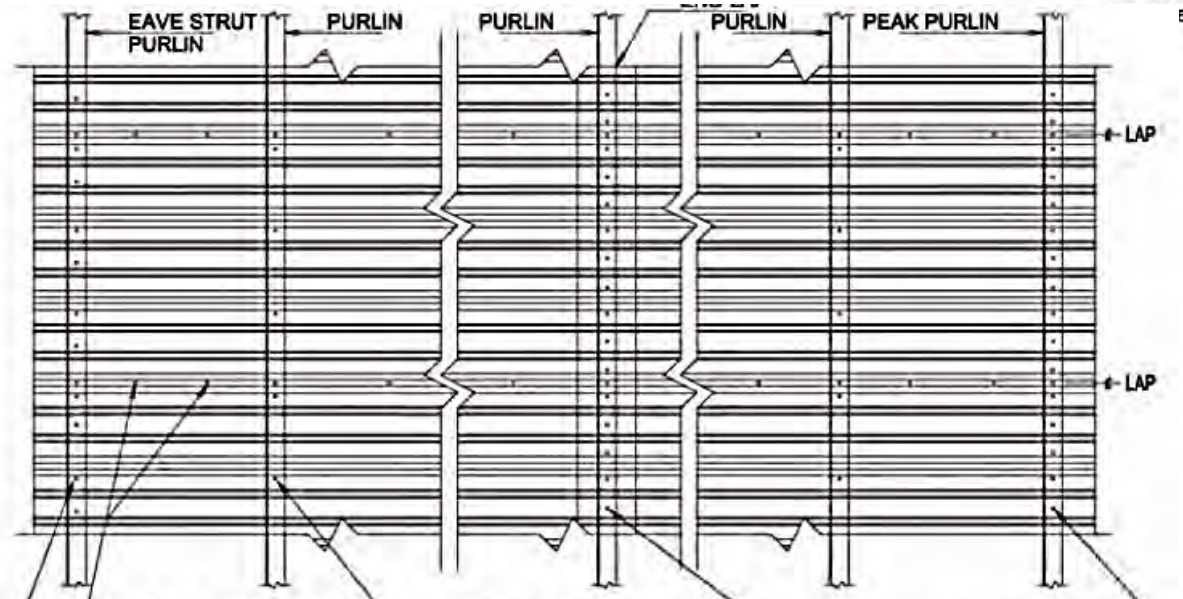


END WALL SHEETING ELEVATION @ GRID 1

USE INSULATION 13 ROLLS



ROOF PANEL INSTALLATION



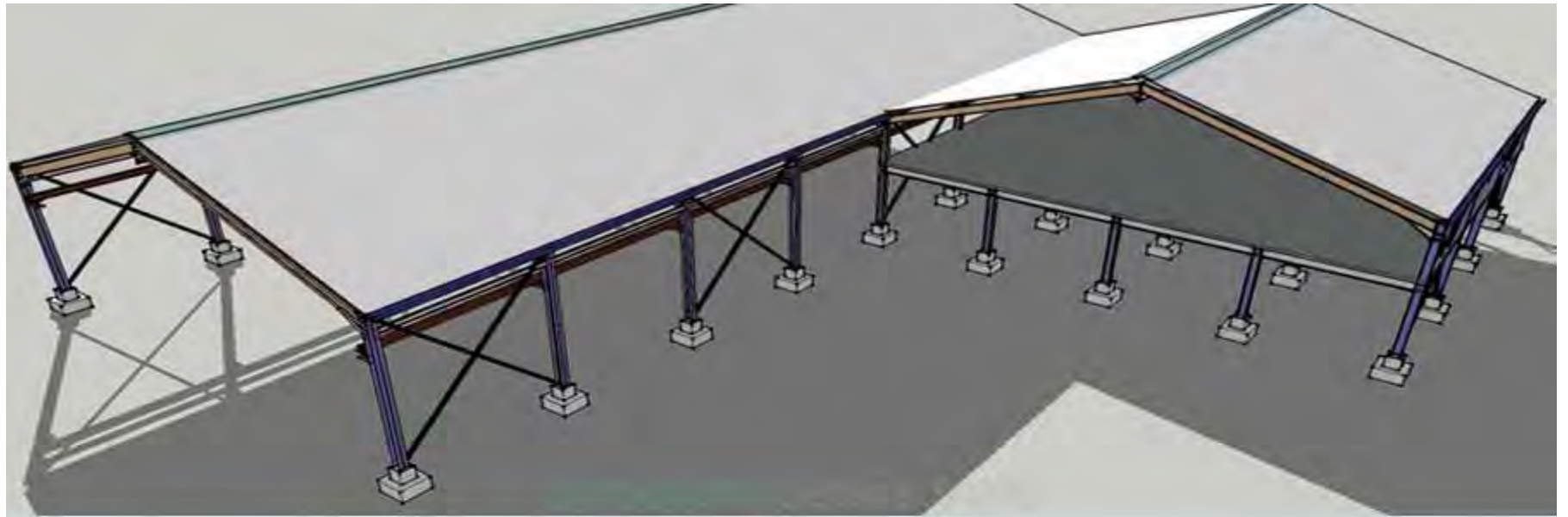
No. 12x20 SDTS STITCH SCREWS
ONE AT EACH SUPPORT AND
AT 300 O.C. (MAX.) IN BETWEEN

No. 14 SDS @ 333 O.C.
AT EACH INTERMEDIATE PURLIN

No. 14 SDS AT
166 O.C.

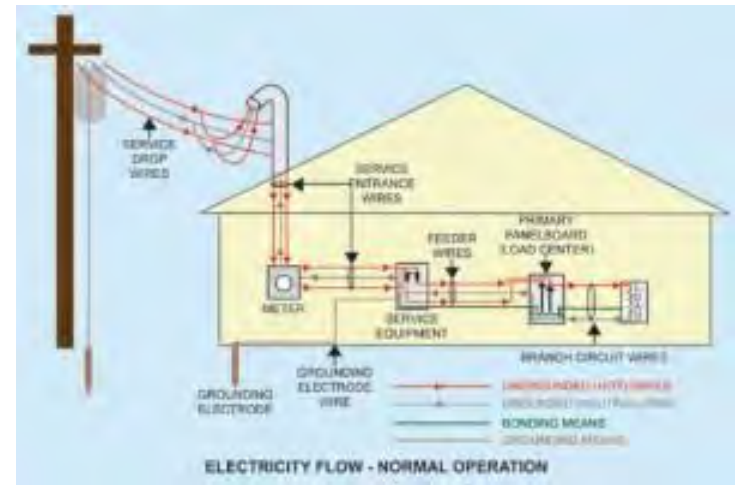
No. 14 SDS 2 ON EACH LOWER
SIDE OF THE MAJOR RIB AND
ONE BETWEEN MINOR RIBS

ROOF PANEL FASTENER LAYOUT



Electricity distribution

An integral part of any set of drawings for the construction of a building is the wiring plan or layout. Several standards apply to this type of design and graphical presentation.



Electrical and Telecom

Water tap	Lum. ceiling mount	Encl ceiling lum	Wall light	Circuit breaker	Multi-light bar	Light bar	Downlight
Outdoor lighting	Singleplex receptacle	Duplex receptacle	Fourplex receptacle	Batten fluores	Distribution box	Modular fluores	Office fluores
Pull-cord switch	Emerg. light	Emerg. sign	Switches	Dimmer switch	Socket outlet	Socket outlet 2	Telephone outlet
Stereo outlet	Ceiling fan	Ceiling fan 2	Combinati... fan	Service panels	Thermostat	Air conditioni...	Hold open unit
Detector	Fire alarm	Monitor	Alarm	Doorbell	Smoke detector	Call	Tel
Main control	Ground	Line	Wire	Cut line	Cut line 2		

Lighting

Luminaire ceiling	Encl ceiling lum	Wall light	Downlight	Outdoor lighting	Multi-light bar	Batten fluores	Modular fluores
Emerg. light	Emerg. sign	Light	Ceiling Light Outlet	Recessed ceiling light	Ceiling fan	Weatherpr... landscape	Ceiling light with pull
Emergency battery unit	spotlight	Exit sign	Light	Roadway light	Twin lights	Light	Lights
Integrated Light	Night Light	Louvers					

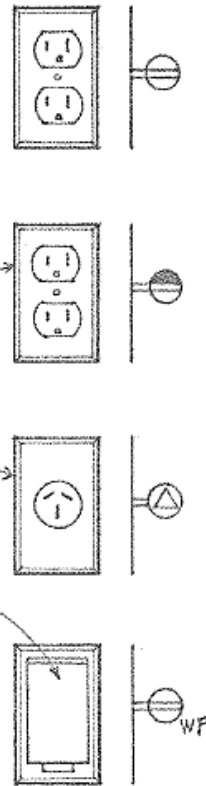
Registers Grills and Diffusers

Supply diffuser	Return diffuser	Grille diffuser	Linear diffuser	Troffer diffuser	Grille (side)

Electricity distribution

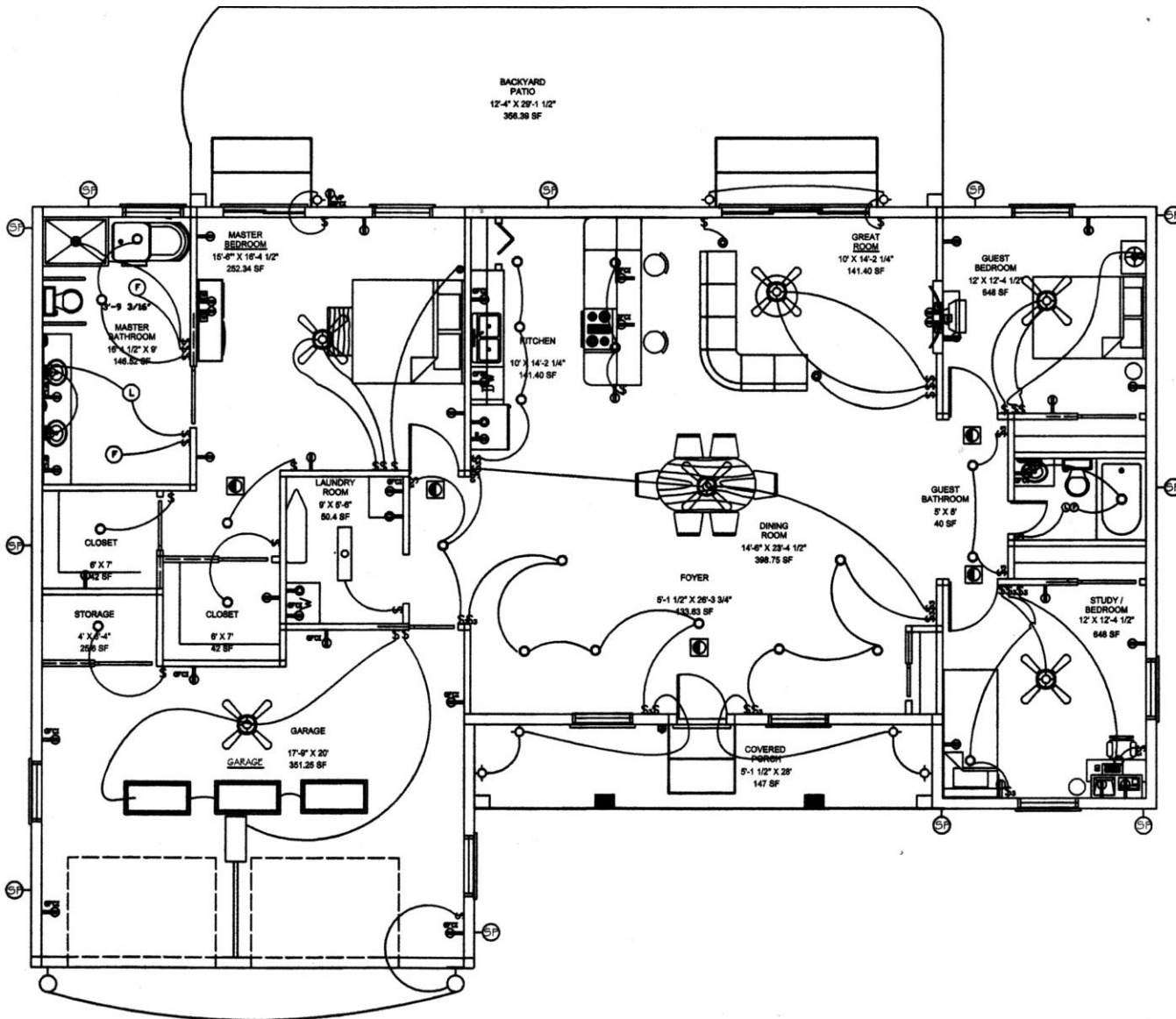
Receptacles

- Duplex receptacles, also called *convenience outlets*, are usually mounted on a wall and house one or more receptacles for portable lamps or appliances.
- Split-wired receptacles contain one outlet that is always energized and a second outlet that is controlled by a wall switch.
- Special receptacles designed to serve a specific type of appliance will be polarized and have a specific configuration so that only attachments from that appliance will fit the receptacle.
- Outdoor receptacles should have a water-resistant cover.
- In all wet locations, receptacles should be protected by a ground fault interrupter (GFI).



	• Panelboard, recessed		• Fluorescent fixture
	• Panelboard, surface		• Ceiling incandescent
	• Power panel		• Wall incandescent
	• Lighting panel		• Track light
	• Transformer		• Recessed light
	• Generator		• Exit light outlet
	• Motor		• Special purpose outlet
	• Disconnect switch		• Television outlet
	• Single-pole switch		• Chime
	• Three-way switch		• Pushbutton
	• Switched receptacle		• Fan receptacle
	• Dimmer switch		• Junction box
	• Duplex outlet		• Underfloor junction box
	• Floor duplex outlet		• Thermostat
	• Telephone outlet		• Computer data outlet

Typical Electrical Plan Symbols



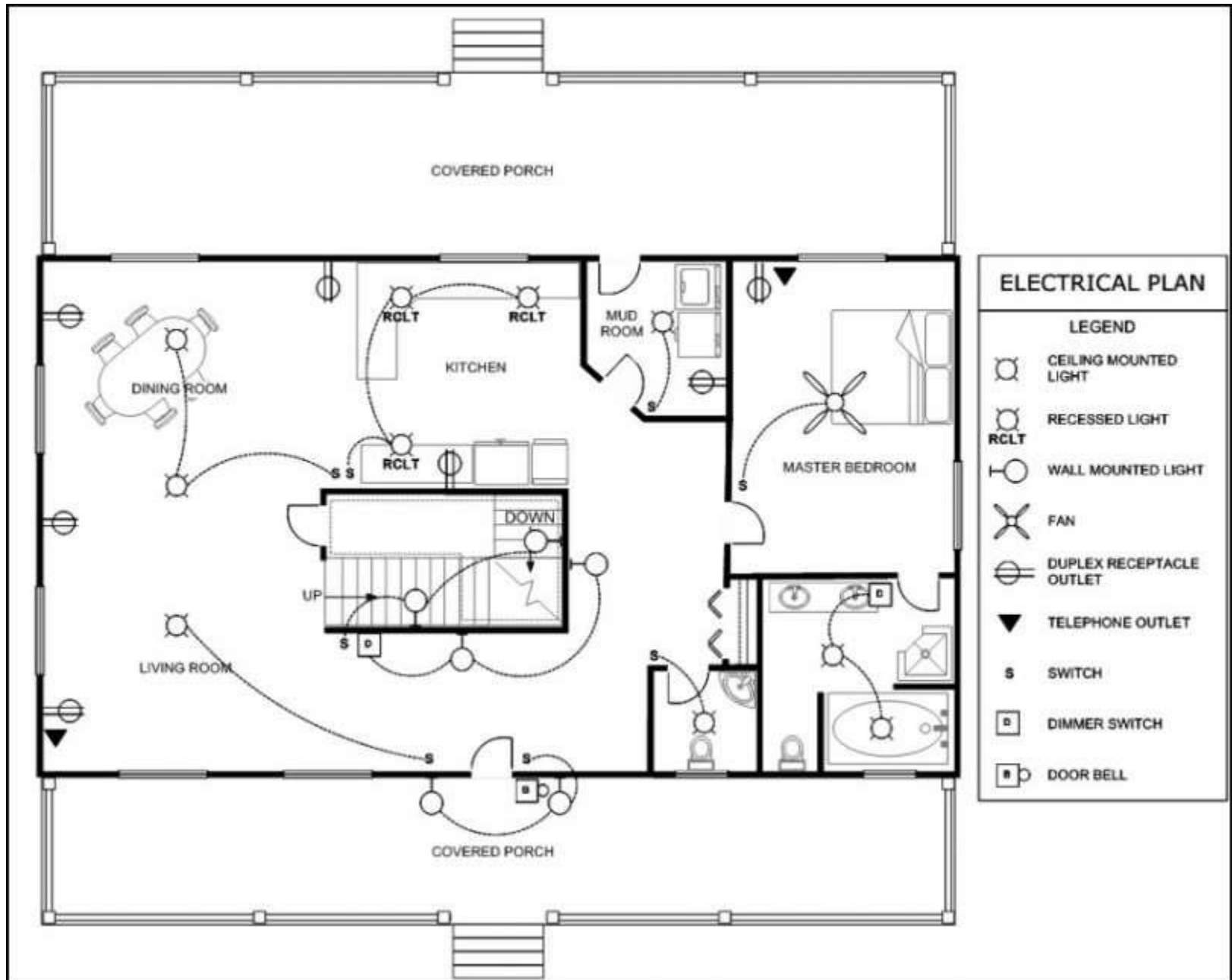
LEGEND	
	WALL MOUNTED LIGHT
	FLUORESCENT LIGHT
	OVERHEAD LIGHT
	JUNCTION BOX
	SPECIAL RECEPTACLE
	DUPLEX RECEPTACLE, 125V, 20A
	DUPLEX RECEPTACLE, SPLIT WIRED
	WATERPROOF
	GFCI
	SINGLE POLE SWITCH
	3 WAY SWITCH
	TV CONNECTION
	EXHAUST FAN
	SMOKE DETECTOR
	CEILING FAN
	LIGHTING
	FLUORESCENT LAMP
	DOOR BELL
	SINGLE PHONE LINE OUTLET
	SOLAR POWERED
	FLOOR PLUG

KARA HUNTZINGER
 PER.4
 1-8-07

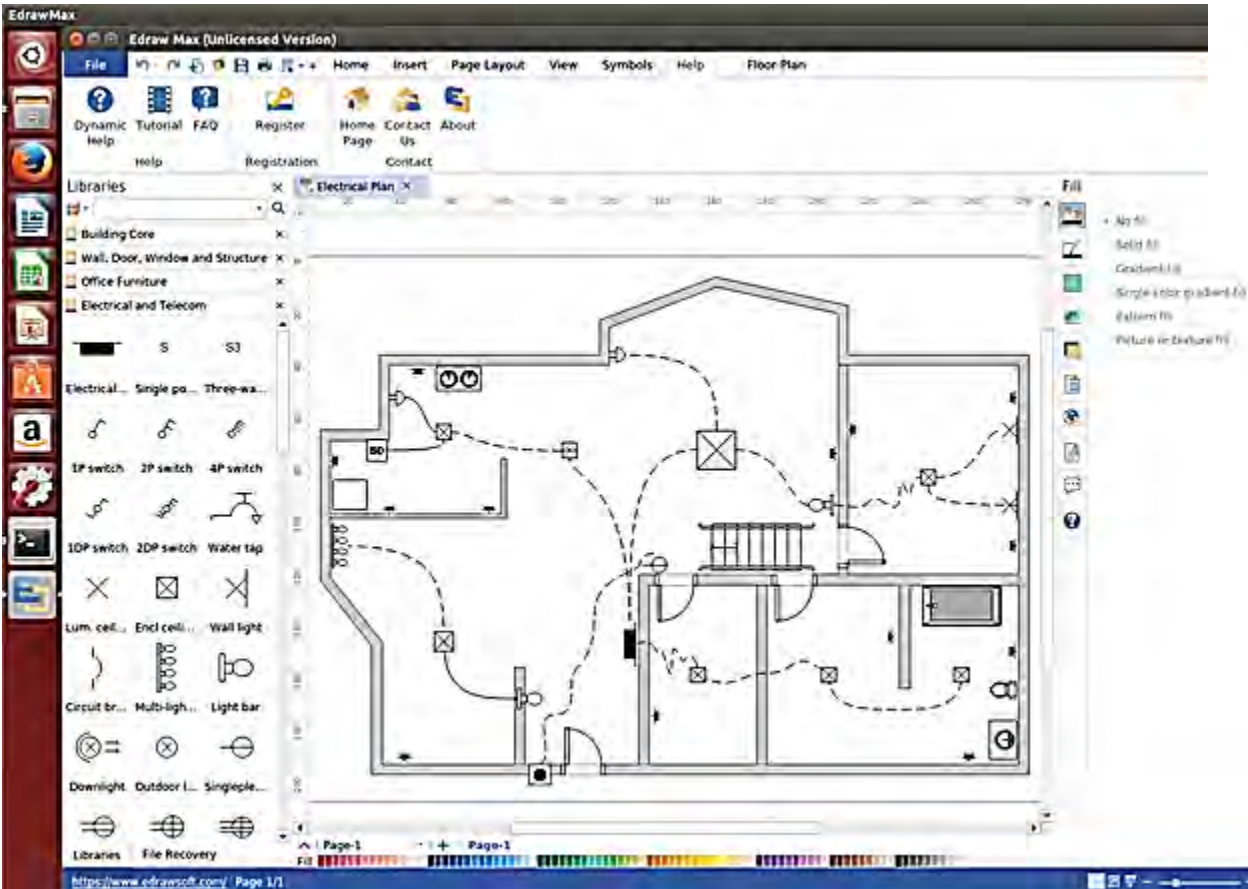
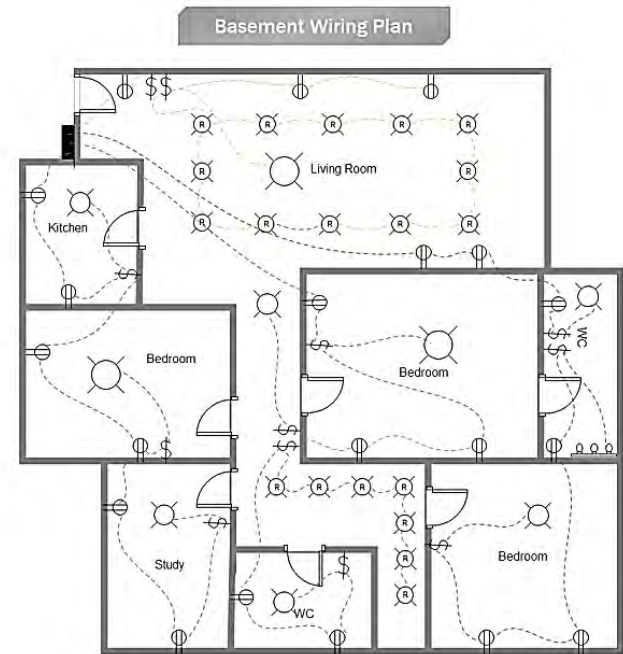
1 ELECTRICAL PLAN
 E 5.0 SCALE: 1/4" = 1'-0"


































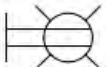

























Electricity distribution



Electricity distribution



Electricity distribution

	Audio Amplifier		Duplex Ground Fault Interrupter		Special-purpose Outlet		Lamp Holder		Television outlet
	Single Outlet and Switch		Split Wired Duplex Outlet		Duplex Special-purpose Outlet		Lamp holder with pull switch		Floor TV Outlet
	Emergency Circuit Single Outlet		240v Outlet		Special-purpose connection or provision for connection		Pull Switch		TV Feed
	Duplex Convenience Outlet		Floor Mounted Outlet		Multi-outlet Assembly		Vapor discharge lamp outlet		Weatherproof TV Outlet
	Emergency Circuit Duplex Outlet		Floor Special-purpose Outlet		Data/voice, Power Floor Mounted Outlet		Exit Light Outlet		TV and Phone Outlet
	Weatherproof Convenience Outlet		Heavy Duty Outlet		Clock Hanger Outlet, Mounted		Floor Receptacle		Door Phone Outlet
	Range Outlet		Heavy Duty Outlet with Convenience Outlet		Blanked Outlet		Telephone outlet		Fax Outlet
	Switch and Convenience Outlet		Triplex Outlet		Drop Outlet		Floor Phone Outlet		Fiber Outlet
	Radio and Convenience Outlet		Split Wired Triplex Outlet		Electrical Outlet		Wall Phone Outlet		Multi-Purpose Outlet
	Radio Outlet		Quadruplex Outlet		Fan Outlet		Weatherproof Phone Outlet		Local Area Network Outlet
	Dedicated Duplex Outlet		Emergency Circuit Quadruplex Outlet		Junction Box		Phone Feed		Wall Mounted Data Outlet
							Computer Data Outlet		Wall Mounted Data/Telephone Outlet