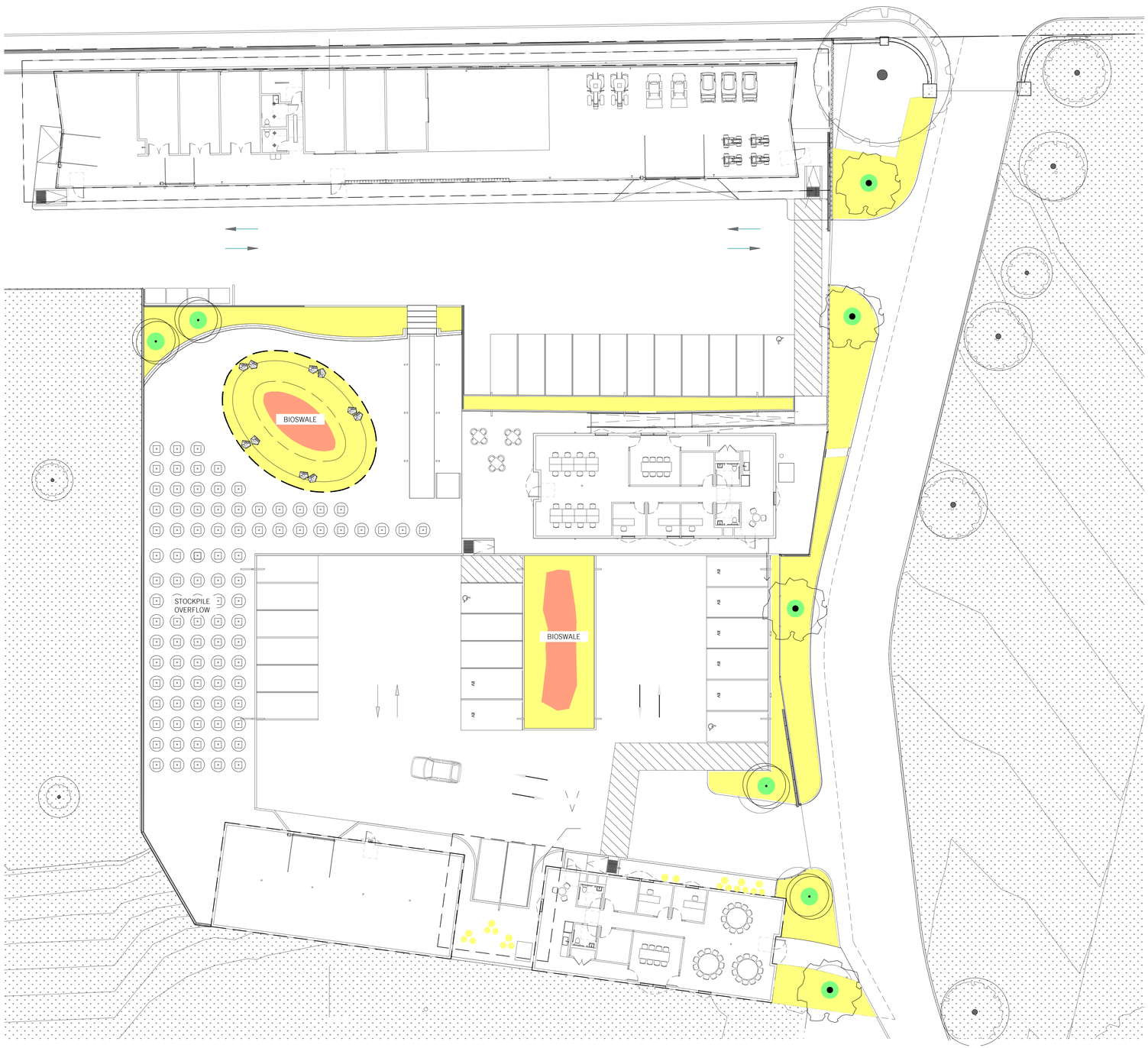

1 HYDROZONE PLAN
1/32" = 1'-0"

N

WATER EFFICIENT LANDSCAPE WORKSHEET

Reference Evapotranspiration (Eto) 50.2

Hydrozone # Planting Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sq.ft.)	ETAF x Area	Estimated Total Water Use (ETWU)	% of Landscape Area
Regular Landscape Areas								
LW	0.3	D	0.81	0.370	5,531	2,049	63,758	88.45%
LW tree	0.3	D	0.81	0.370	157	58	1,810	2.51%
MW	0.5	D	0.81	0.617	565	349	10,855	9.04%
				Totals:	**6,253**	**2,455**		
Special Landscape Areas								
EDIBLE				1.000	0	0	0	
				Totals:	**0**	**0**		
					ETWU Total		**76,423**	
				Maximum Allowed Water Allowance (MAWA)			**87,578**	

Hydrozone
HW = High Water Use Plants
MW = Moderate Water Use Plants
LW = Low Water Use Plants

Irrigation Method
MS = Micro-spray
S = Spray
R = Rotor
B= Bubbler
D= Drip
O = Other

Irrigation Efficiency
0.75 for spray head
0.81 for drip

ETWU (Annual Gallons Required)=
Eto x 0.62 x ETAF x Area

Where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

MAWA (Annual Gallons Allowed
MAWA = (ETo) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

MAWA = *Maximum Applied Water Allowance (gallons per year)*
ETo = *Reference Evapotranspiration from CA Model Water Efficient Landscape Ordinance*
ETAF = *ET Adjustment Factor (PF/IE)*
LA = *Landscaped Area includes Special Landscape Area (square feet)*
0.62 = *Conversion Factor (to gallons per square foot)*
SLA = *Portion of the Landscape Area identified as Special Landscape Area (square feet) [N/A]*

MAWA =	*(ETo)*	(0.62)	[(ETAF	x	LA)	+	((1-ETAF)	x SLA)]
MAWA =	50.2	0.62	0.45		6253		0.55	0	
MAWA =	**87,578**								
ETWU under MAWA									

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	2,455
Total Area	6,253
Average ETAF	**0.393**

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	2,455
Total Area	6,253
Sitewide ETAF	**0.393**

HYDROZONE LEGEND- ALL LEVELS

SYMBOL	HYDROZONE	PLANT WATER USE	PLANT FACTOR (PF)	AREA (HA) SF	PF x HA (SQ. FT.)
	LW	Low Water	0.3	5531	1659.3
	LWT	Low Water- Tree	0.3	157	47.1
	MW	Moderate Water	0.5	565	282.5
	MWT	Moderate Water- Tree	0.5	0	0.0
	HW	High Water	0.8	0	0.0
	HWT	High Water- Tree	0.8	0	0.0
	HWL	High Water- Lawn	0.8	0	0.0
	HWP	High Water- Pool	1	0	0.0
TOTAL LANDSCAPE AREA				6253	1988.9

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HYDROZONE PLAN

SCALE: AS INDICATED

L020

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1 LANDSCAPE SITE PLAN
1/16" = 1'-0"

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LANDSCAPE SITE PLAN

SCALE: AS INDICATED

L100

DATE
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Parkinsonia aculeata
Mexican Palo Verde

Pachyecereus marginatus
Mexican Fencepost

Cercis occidentalis
Western Redbud

Euphorbia 'Sticks on Fire'
Pencil Cactus

Leucadendron 'Safari Sunset'
Safari Conebush

Dasylirion wheeleri
Desert Spoon

Echinocactus grusonii
Golden Barrel Cactus

Agave 'Blue Glow'
Blue Glow Agave

ENTRY WAY PLANTING

Salvia spathacea
Hummingbird Sage

Salvia greggii
Autumn Sage

Encelia californica
California Bush Sunflower

Muhlenbergia dubia
Pine Muhly

Achillea millefolium
Common Yarrow

Verbena lilacina 'De La Mina'
Cedros Island Verbena

Dendromecon harfordii
Island Bush Poppy

Leymus condensatus 'Canyon Prince'
Canyon Prince Wild Rye

Junus patens
California Gray Rush

COURTYARD PLANTING

Cercis occidentalis
Western Redbud

Muhlenbergia rigens
Deer Grass

Leymus condensatus 'Canyon Prince'
Canyon Prince Wild Rye

Junus patens
California Gray Rush

Carex tumulicola
Berkeley Sedge

PARKING LOT / BIOSWALE PLANTING

OVERALL SITE PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	PLANT SIZE	LOCATION	WUCOLS
TREES							
	Stockpiled Trees	Existing					
	Parkinsonia aculeata	Mexican Palo Verde	36" Box	4	10-20' H x 10-15" W	Front	L
	Cercis occidentalis	Western Redbud	36" Box	4	10-15' H x 10-20" W	Bio Swale Adjacent	L
SHRUBS & PERENNIALS							
	Leucadendron 'Safari Sunset'	Safari Conebush	5 Gal.	9	8-10' H x 6-8' W	Front	L
	Achillea millefolium	Common Yarrow	5 Gal.	45	1.5-2.5' H x 1.5-2' W	Bio Swale Basin	L
	Salvia spathacea	Hummingbird Sage	5 Gal.	-	1-2' H x 4-5' W	Bio Swale Rim	L
	Salvia greggii	Autumn Sage	5 Gal.	18	2-4' H x 3-4' W	Bio Swale Rim	L
	Verbena lilacina 'De La Mina'	Cedros Island Verbena	5 Gal.	52	2'-3'H x 3'-6'W	Bio Swale Basin	L
	Encelia calfornica	California Bush Sunflower	5 Gal.	9	3-4'H x 3-6'W	Bio Swale Rim	VL
	Dendromecon harfordii	Island Bush Poppy	15 Gal.	1	6-10'H x 6-10'W	Bio Swale Adjacent	VL
GRASSES, BAMBOO & PHORMIUMS							
	Mulenbergia dubia	Blond Ambition Blue Grama	5 Gal.	24	2-3' H x 3-4' W		VL
	Junus patens	California Gray Rush	5 Gal.	68	1.5-2' H x 1.5-2' W	Bio Swale Basin	M
	Leymus condensatus 'Canyon Prince'	Canyon Prince Wild Rye	5 Gal.	34	3-4' H x 3-4' W	Bio Swale Rim	L
	Carex tumulicola	Berkeley sedge	5 Gal.	45	1-2' H x 1.5-3' W		L
	Muhlenbergia rigens	Deer Grass	5 Gal.	65	4-5' H x 4-6' W	Bio Swale Basin	L
AGAVES & ALOES							
	Agave 'Blue Glow'	Blue Glow Agave	5 Gal.	30	1-2' H x 2-3' W	Front	VL
	Dasylirion wheeleri	Desert Spoon	5 gal.	8	3-5'H x 4-5'W	Front	VL
	Echinocactus grusonii	Golden Barrel Cactus	5 gal.	13	3-4'H x 2-3'W	Front	VL
	Euphorbia 'Sticks on Fire'	Pencil Cactus	5 gal.	8	4-8'H x 4-8'W	Front	VL
	Pachyecereus marginatus - 4-6' tall	Mexican Fencepost	15 gal.	38	10-15'H	Front	VL
PEBBLES / INERT GROUNDCOVER							
	Decomposed Granite						
	Cobble						

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PLANT PALETTE

SCALE: NTS

L200

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COURTYARD PLANTING

TERRACE WALL

TERRACE STAIRS

1 ENLARGED COURTYARD PLAN
1/8" = 1'-0"

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ENLARGED PLAN

SCALE: AS INDICATED

L210

DATE
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1 ENLARGED PLANTING PLAN
1/8"= 1'-0"

N

FRONT PLANTING CONCEPT IMAGES

BIO SWALES CONCEPT IMAGES

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ENLARGED PLANTING PLAN

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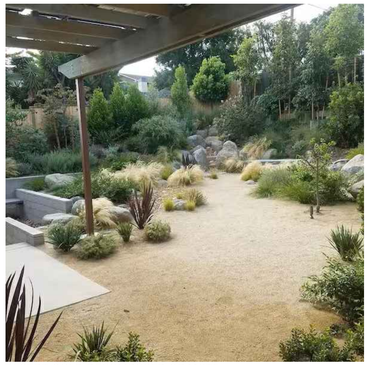

DESERT GOLD DECOMPOSED GRANITE

RED MOUNTAIN BOULDERS AND SIERRA COBBLES

MESA BUFF COLORED CONCRETE

RED MOUNTAIN CLASSIC VENEER WALL

HARDSCAPE LEGEND

SYMBOL		ITEM	SPECIFICATION	QTY	NOTES	SUPPLIER
MATERIALS						
	C1	CONCRETE W/ BROOM FINISH	NATURAL CONCRETE	4960 SF	-	-
	C2	DECORATIVE CONCRETE	DAVIS COLORS MESA BUFF #5447 W/ ECOCAST #5 FINISH	1832 SF	-	-
	C3	DETECTABLE WARNING	STEPSTONE 12X12 CONC PAVER	40 SF	CONTRASTING COLOR OR YELLOW	
	DG	STABILIZED DECOMPOSED GRANITE	DESERT GOLD WITH SOIL-SECURE STABILIZER	10,508 SF 3" DEEP	DO NOT STABILIZE AT PLANTING	SOUTHWEST BOULDER & STONE
	W1	STONE WALL	RED MOUNTAIN CLASSIC STONE VENEER	96 LF X 18" WIDE	--	SOUTHWEST BOULDER & STONE
	G1	COBBLESTONE	SIERRA COBBLE 4"-8"	565 SF	BOTTOM OF BIOSWALES	SOUTHWEST BOULDER & STONE
	G2	SMALL COBBLE	SIERRA COBBLE 1.5"-3"	2335 SF	FRONT PLANTING AREA	SOUTHWEST BOULDER & STONE
	B1	BOULDER	RED MOUNTAIN 3' X 3'	10	-	SOUTHWEST BOULDER & STONE
	ME1	LOW METAL EDGING	PAINTED STEEL EDGING- EXPOSE 2"	135 LF		
	PA	PLANTING AREA		6090 SF		

1 SITE HARDSCAPE PLAN
1/16" = 1'-0"

N

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SITE HARDSCAPE PLAN

SCALE: AS INDICATED

L300

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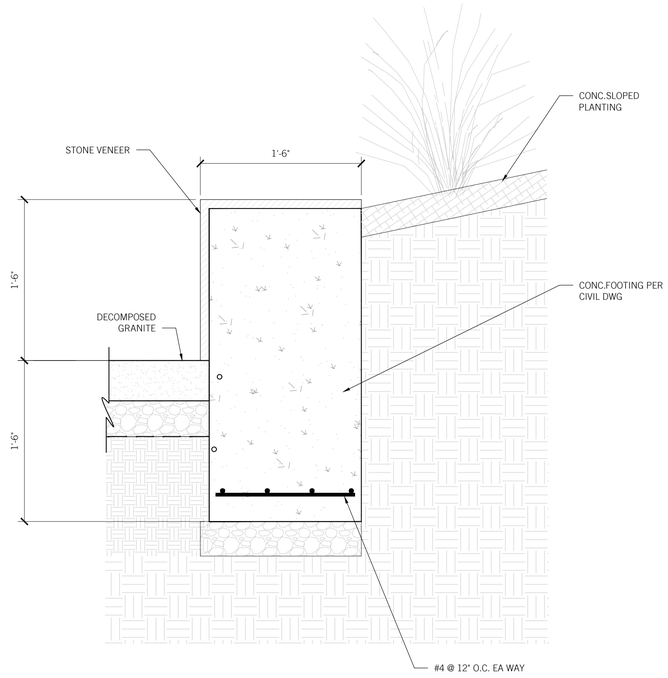
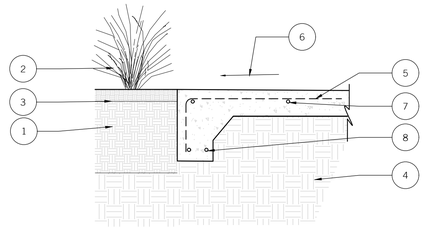


STONE WALL / BENCH

SCALE NTS

6

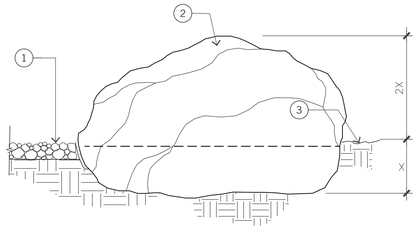


1. SEE PLANTING NOTES L0.001 FOR AMENDED SOIL DEPTH
2. SPECIFIED PLANTS, SEE L2.000.
3. 3" MULCH LAYER
4. COMPACTED FILL PER GEOTECHNICAL REPORT
5. CONCRETE SIDEWALK WITH TURNED DOWN EDGE. SEE REFERENCE NOTE SCHEDULE
6. SLOPE TO DRAIN PER CIVIL
7. REINFORCEMENT PER CIVIL

CONC. SIDEWALK TO PAVING

SCALE NTS

4



LEGEND

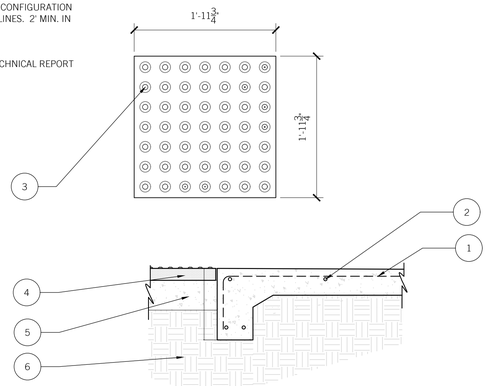
1. ROCK COBBLE WHERE OCCURS
2. BOULDER
3. F.G.

BOULDER DETAIL

SCALE NTS

2

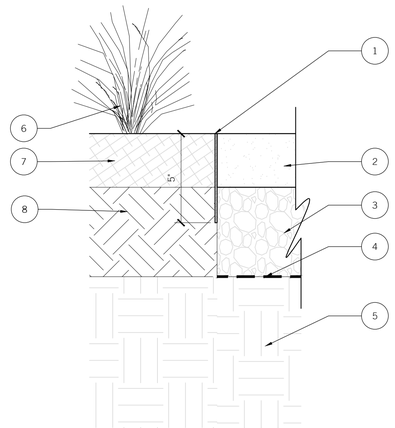
1. CONCRETE SIDEWALK WITH TURNED DOWN EDGE
2. REINFORCEMENT PER CIVIL
3. TRUNCATED DOME PAVERS; SEE REFERENCE NOTE SCHEDULE ON L3.000. CONFIGURATION TO CONFORM TO ADA GUIDELINES. 2' MIN. IN DIRECTION OF TRAVEL.
4. TRUNCATED DOME PAVERS
5. SUB-SLAB. SEE STRUCTURAL
6. COMPACTED FILL PER GEOTECHNICAL REPORT



TRUNCATED DOME PAVER

SCALE NTS

5



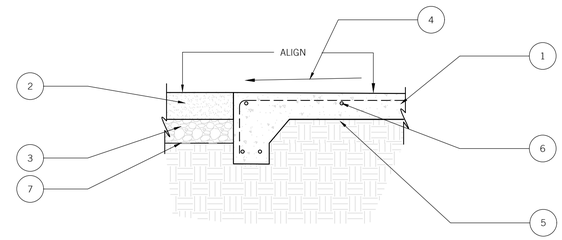
DETAIL NOTES:

1. 1/8" STEEL EDGING 5" DEEP TYP. PROVIDE ANCHOR STAKES AT 5' O.C. MINIMUM.
2. 3" THICK STABILIZED DECOMPOSED GRANITE:
   SIZE: FINE TO $\frac{1}{4}$" PARTICLE SIZE.
   INSTALL IN 1 $\frac{1}{2}$" LAYERS, EACH LAYER COMPACTED 90% W/ TOP LAYER MIN. 75% DUST FINES. ADD STABILIZER PER MFG SPECIFICATIONS AND RECOMMENDATIONS.
3. COMPACTED AGGREGATE BASE, SEE CIVIL
4. GEOTEXTILE FABRIC
5. PREPARED SUBGRADE
6. SPECIFIED PLANTS. SEE L2.000
7. 3" MULCH LAYER
8. SEE PLANTING NOTES ON L0.001 FOR AMENDED SOIL DEPTH

STEEL EDGING

SCALE NTS

3



1. CONCRETE SIDEWALK. SEE REFERENCE NOTE SCHEDULE ON L3.000.
2. 3" STABILIZED DECOMPOSED GRANITE PAVING
3. MIN. 6" THICK COMPACTED AGGREGATE BASE, SEE CIVIL DWG.
4. SLOPE TO DRAIN. SEE CIVIL.
5. COMPACTED FILL PER GEOTECHNICAL REPORT
6. REINFORCEMENT PER CIVIL
7. GEOTEXTILE

CONC. PAVING TO DECOMPOSED GRANIT

SCALE NTS

1

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

700 Warren Lane
Inglewood, CA, 90302

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BAR SCALE

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LANDSCAPE DETAILS

SCALE: AS INDICATED

L400

DATE
05.12.2025

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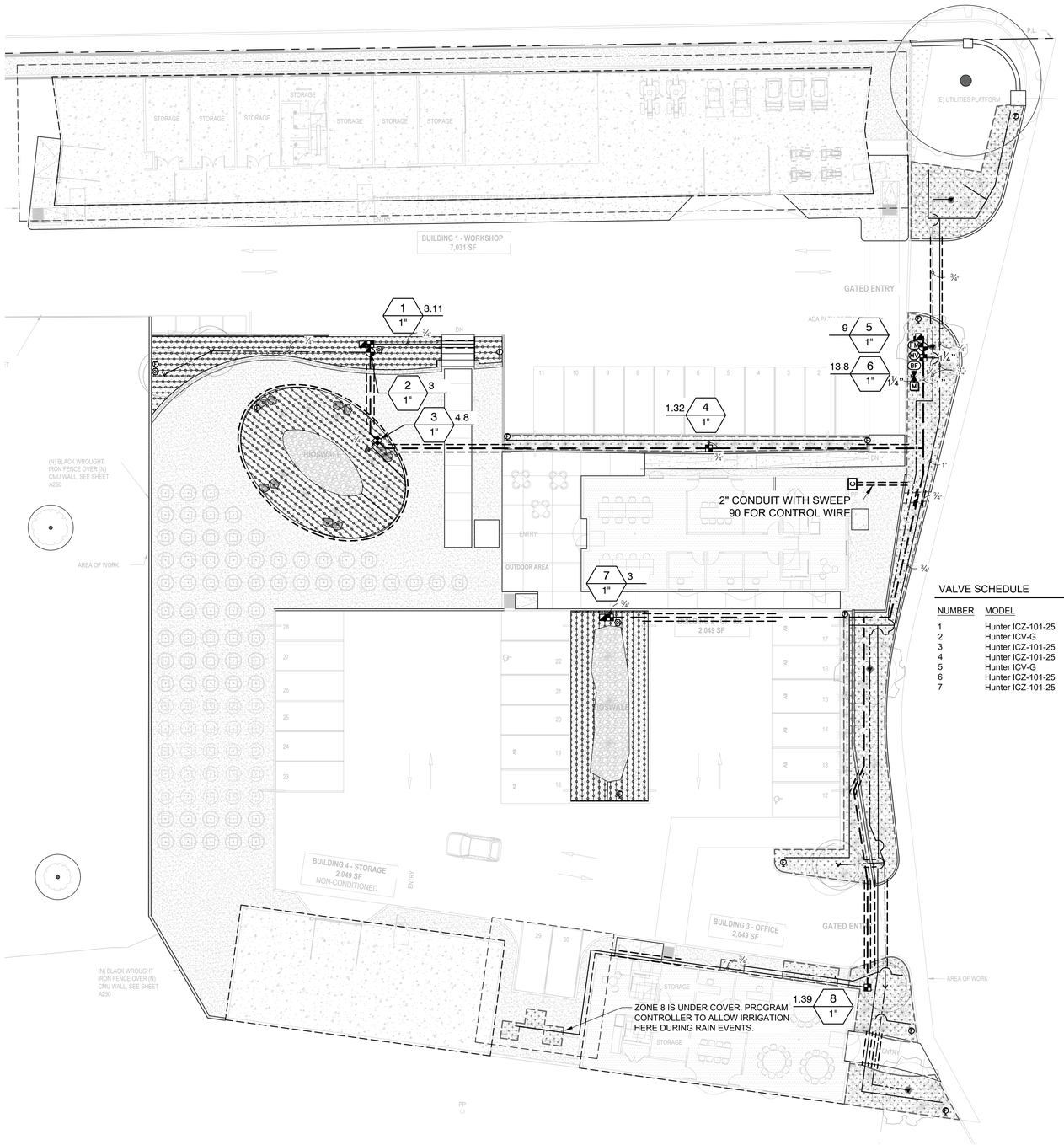

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Hunter ICZ-101-25	1"	Area for Dripline	3.11	29.0	41.9	0.43 in/h
2	Hunter ICV-G	1"	Bubbler	3	32.7	45.6	45.96 in/h
3	Hunter ICZ-101-25	1"	Area for Dripline	4.8	30.5	44.1	0.43 in/h
4	Hunter ICZ-101-25	1"	Area for Drip Emitters	1.32	23.0	35.3	0.9 in/h
5	Hunter ICV-G	1"	Bubbler	9	37.9	51.9	45.96 in/h
6	Hunter ICZ-101-25	1"	Area for Drip Emitters	12.28	33.1	47.9	1.35 in/h
7	Hunter ICZ-101-25	1"	Area for Dripline	3	28.7	41.4	0.43 in/h

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
V	3--Hunter RZWS-18-50 per tree. Root zone watering sytems. 18" long, placed equidistantly around tree root ball. One symbol equals three (3) RZWS per tree.
▼	3-Hunter RZWS-36-50 per tree Root zone watering sytems. 36" long, placed equidistantly around tree root ball. One symbol equals three (3) RZWS per tree.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICZ-101-25 Drip Control Zone Kit. 1in. ICV Globe Valve with 1in. HY100 filter system. Pressure Regulation: 25psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.
P	Hunter PLD-BV Manual flush/shut off valve, barbed insert. Typically installed in 10in. box, with adequate blank tubing to extend valve out of valve box. Use with HDL or other 3/4in. dripline.
ECO	Hunter ECO-ID ECO-ID: 1/2in. FPT connection with 12 psi-70 psi operating pressure. Specify with Hunter SJ swing joint.
	Area to Receive Drip Emitters Hunter HEB-BR 1/2in. Female Threaded Point Source Drip Emitter. Color coded emitters for flow rates of 0.5-6.0 GPH. On IH-FIT-3850-R purple adapter with HE-DIFF caps. On custom-cut IH riser hose. Emitter Notes: HEB-20 emitters (2 assigned to each 5 gal. plant) HEB-40 emitters (3 assigned to each 15 gal. plant)
	Area to Receive Dripline Hunter HDL-06-18-COP x 18" row spacing HDL-06-18-COP: Copper oxide-infused Hunter Dripline with 0.6 GPH flow. Light brown tubing with gray striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G 1in., 1-1/2in., 2in., and 3in. Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-33DLRC Quick coupler valve, yellow locking rubber cover, red brass and stainless steel, with 3/4in. NPT inlet, 2-piece body.
	Nibco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4in. - 3in.
MV	Superior 3100 1" Normally Open Brass Master Valve that Provides Dirty Water Protection. Available in 3/4in., 1in., 1-1/4in., 1-1/2in., 2in., 2-1/2in. and 3in..
BF	Febco 825Y 1" Reduced Pressure Backflow Preventer
C	Hunter HCC-800-M 8 Station Outdoor Wi-Fi enabled, full-functioning controller with touchscreen, Commercial Use. Metal Cabinet. With HydrWise weather-based management and virtual Solar Sync.
FM	Hunter HC-100-FLOW 1in. Flow meter for use with Hydrawise enabled controller to monitor flow and provide system alerts. Also functions as stand alone flow totalizer/sub meter on any residential or commercial irrigation system.
M	Water Meter 1" Irrigation Meter
	Irrigation Lateral Line: PVC Schedule 40-drip Drip supply laterals
	Irrigation Lateral Line: PVC Schedule 40-trees Laterals to trees
	Irrigation Lateral Line: Rain Bird QF Drip Line Header Tubing
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: PVC Schedule 40

Valve Callout
Valve Number
Valve Flow
Valve Size

NOTES

1. THIS PLAN IS DIAGRAMMATIC ONLY AND SUBJECT TO CHANGE. VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD. ADJUST EQUIPMENT LAYOUT TO SUIT FIELD CONDITIONS AND SITE CONSTRAINTS.
2. EQUIPMENT SHOWN IN PAVED AREAS OR OUTSIDE PROJECT LIMITS IS FOR GRAPHIC CLARITY ONLY. INSTALL IN LANDSCAPED AREA. DO NOT WILLFULLY INSTALL EQUIPMENT UNDER PAVEMENT OR OUTSIDE PROJECT LIMITS.
3. COORDINATE VALVE BOX LOCATIONS WITH THE PLANTING PLAN. AVOID DISPLACING PLANTS AS MUCH AS POSSIBLE. CONCEAL FROM DIRECT VIEW WHERE POSSIBLE.
4. ALL SLEEVES TO BE 2X THE SIZE OF THE INTERIOR PIPE. A LARGER SLEEVE MAY BE USED IN PLACE OF TWO OR MORE SMALLER SLEEVES, PROVIDED THE SLEEVE DIAMETER IS 2X THAT OF THE TOTAL INTERIOR PIPE DIAMETERS.
5. PLACE CONTROL WIRE IN SEPARATE 2" SLEEVE.
6. CONTRACTOR TO DETERMINE FINAL SIZE AND NUMBERS OF SLEEVES PER CROSSING. SYMBOLS SHOWN MERELY INDICATE THAT SLEEVES ARE REQUIRED.
7. DESIGN ASSUMPTIONS: 18 GPM AT 60 PSI MINIMUM STATIC PRESSURE AT THE METER. VERIFY IN FIELD. PRESSURE NOT VERIFIED AT DESIGN TIME. REPORT PRESSURE RESULTS TO THE LANDSCAPE ARCHITECT.
8. COVER DEPTH TO TOP OF PIPE AND TUBING: MAIN LINE, 18"; LATERALS INCLUDING DRIP LINE HEADERS, 12"; DRIP TUBING, 4" INCLUDING 2" OF SOIL AND 2" OF SETTLED MULCH.
9. PIPES MAY SHARE TRENCHES. PROVIDE 6" VERTICAL, AND 4" LATERAL, CLEARANCE BETWEEN PIPES.
10. THIS SYSTEM QUALIFIES FOR HUNTER IRRIGATION'S ENHANCED 5 YEAR WARRANTY AND THE EPA'S WaterSense CERTIFICATION. CONTACT HUNTER IRRIGATION FOR DETAILS.
11. **NO EQUIPMENT SUBSTITUTIONS WITHOUT PRIOR WRITTEN APPROVAL.**

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IRRIGATION PLAN

SCALE: As indicated

IR100

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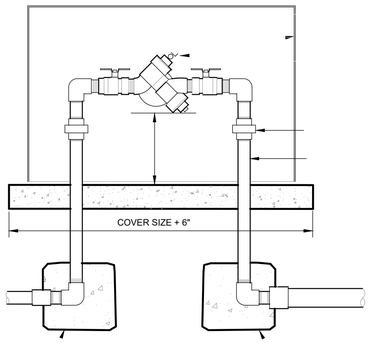
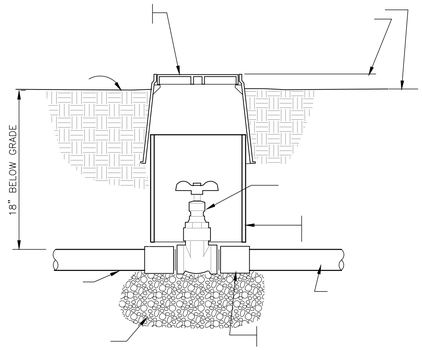


1 RP BACKFLOW W/ENCLOSURE

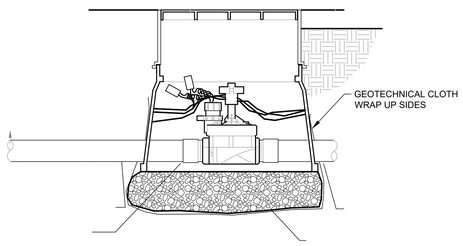
1" = 1'-0" FX-IRRG-FX-BACK-06



NOTE: PROVIDE GEO-TECHNICAL CLOTH UNDER GRAVEL AND WRAP UP SIDES OF VALVE BOX.

2 BRASS/BRONZE GATE VALVE

NTS 328406.33-01



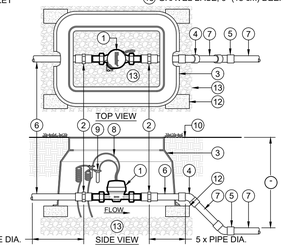
3 MASTER CONTROL VALVE

NTS 328406.23-01

NOTE: INLET PIPE ENTERING METER: LENGTH MUST BE A MIN. OF 10 X PIPE DIA.
OUTLET PIPE LEAVING METER: LENGTH MUST BE MIN. OF 5 X PIPE DIA.
INLET AND OUTLET PIPE MUST BE STRAIGHT PIPE WITH NO FITTINGS OR TURNS UNTIL AFTER THESE SPECIFIED LENGTHS. PIPE AND FITTINGS MAY BE SCH 80 PVC SOLVENT WELD, THREADED SCH 80 PVC OR BRASS, AS REQUIRED FOR PROJECT.

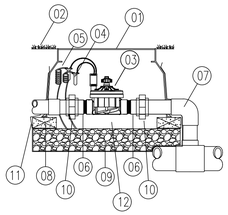
DETAIL LEGEND:

1. HUNTER HC FLOW METER HC-xxx WITH UNION CONNECTIONS
2. SCH 80 PVC FEMALE ADAPTER (S X T)
3. RECTANGULAR VALVE BOX PER SPECIFICATIONS
4. SCH 80 PVC 45 DEGREE ELBOW (S X S) TO LOWER MAIN LINE TO PROPER DEPTH (SIZE FOR LARGER MAIN LINE AS NEEDED)
5. SCH 80 PVC 45 DEGREE ELBOW (S X S) TO LOWER MAIN LINE TO PROPER DEPTH
6. 1" DIA. (25 mm) MAIN LINE AT INLET & OUTLET
7. MAIN LINE TO SYSTEM (SEE LEGEND AND PLANS FOR TYPE AND SIZE)
8. TWO WIRES TO FLOW SENSOR TERMINALS AT CONTROLLER, MIN. 18 AWG-UF (2.08 mm²) SHIELDED WIRE WITH DIFFERENT COLOR FROM CONTROL/COMMON WIRE.
9. WEATHERPROOF WIRE CONNECTOR
10. FINISH GRADE
11. SPECIFIED SOIL COVER (SEE LEGEND)
12. COMMON BRICK
13. GRAVEL BASE, 6" (15 cm) DEEP

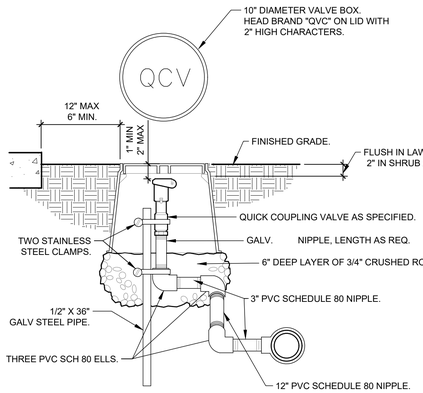


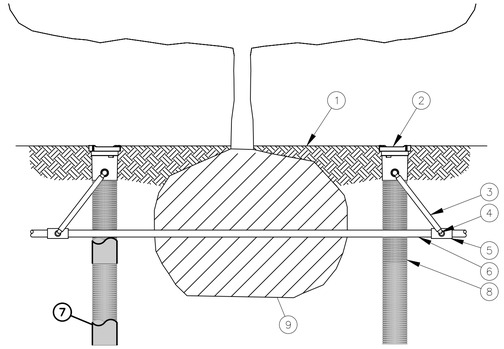
4 HUNTER HC-075/100/150 FLOW METER

NTS 328409.63-01



01 STANDARD VALVE BOX
02 FINISH GRADE
03 REMOTE CONTROL VALVE MODEL PER PLAN
04 WATERPROOF CONNECTORS (2)
05 18–24" COILED WIRE
06 SCH 80 T.O.E. NIPPLE
07 MAIN LINE PIPE & FITTINGS
08 BRICK SUPPORTS (4)
09 3/4" MINUS WASHED GRAVEL
10 PVC SLIP UNIONS
11 GEOTECHNICAL CLOTH– WRAP UP SIDES
12 4" CLEARANCE BETWEEN VALVE AND GRAVEL





1 FINISH GRADE/TOP OF MULCH
2 ROOT WATERING SYSTEM: AS SPECIFIED
3 SWING ASSEMBLY (INCLUDED)
4 1/2" (1,3 CM) MALE NPT INLET (INCLUDED)
5 PVC SCH 40 TEE OR EL
6 PVC OR POLYETHYLENE LATERAL PIPE
7 OPTIONAL SOCK (RWS–SOCK) FOR SANDY SOILS
8 CANISTER––LENGTH AS SPECIFIED
9 PLANT ROOT BALL

NOTES:
1. POSITION 2 UNITS EVENLY SPACED AROUND PLANT. FOR NEW TREES PLACE NEAR ROOT BALL.
2. INSTALL PRODUCT WITH TOP EVEN WITH FINISH GRADE OR THE TOP OF MULCH.
4. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.

5 REMOTE CONTROL VALVE WITH UNIONS

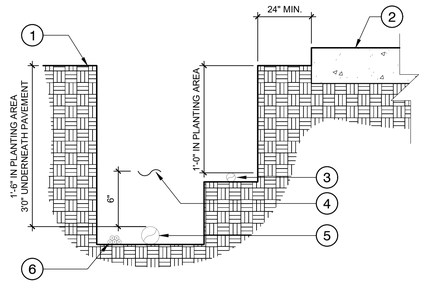
NTS 328406.13-01

6 QUICK COUPLING VALVE IN BOX

1 1/2" = 1'-0" FX-IRRG-FX-QCV-03

7 ROOT WATERING SYSTEM

NTS 328403.53-01



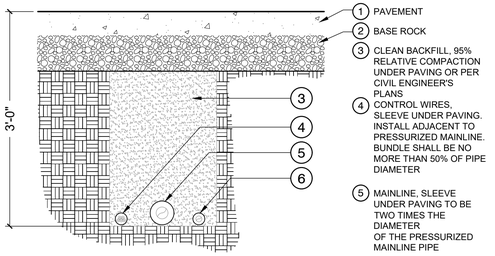
NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
2. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.
3. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
4. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

1 FINISHED GRADE
2 PAVEMENT
3 NON-PRESSURIZED LINE (LATERAL LINE)
4 DETECTABLE LOCATOR TAPE
5 PRESSURIZED LINE (MAINLINE)
6 DIRECT BURIAL LOW VOLTAGE CONTROL WIRES

8 IRRIGATION TRENCHING

1 1/2" = 1'-0" FX-IRRG-FX-AUXEQ-08



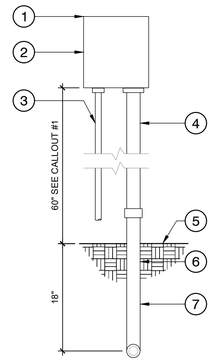
1 PAVEMENT
2 BASE ROCK
3 CLEAN BACKFILL, 95% RELATIVE COMPACTION UNDER PAVING OR PER CIVIL ENGINEER'S PLANS
4 CONTROL WIRES, SLEEVE UNDER PAVING. INSTALL ADJACENT TO PRESSURIZED MAINLINE. BUNDLE SHALL BE NO MORE THAN 50% OF PIPE DIAMETER
5 MAINLINE, SLEEVE UNDER PAVING TO BE TWO TIMES THE DIAMETER OF THE PRESSURIZED MAINLINE PIPE
6 NON-PRESSURIZED LINE, SLEEVE UNDER PAVING TO BE BE TWO TIMES THE DIAMETER OF THE LATERAL LINE

NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

9 PIPE BENEATH PAVEMENT

1" = 1'-0" FX-IRRG-FX-AUXEQ-05



1 SET CONTROLLER 60" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED
2 CONTROLLER AS SPECIFIED, SECURELY BOLTING CONTROLLER TO WALL OR AS PER MANUFACTURER SPECIFICATIONS. INSTALL BACKUP BATTERIES AS REQUIRED. GROUND AS PER MANUFACTURER SPECIFICATIONS
3 1/2" DIAMETER RIGID CONDUIT PER LOCAL CODE FOR 110VAC ELECTRICAL SOURCE. INSTALL AS PER LOCAL ELECTRICAL CODES
4 1-1/2" DIAMETER CONDUIT FOR RCV WIRES
5 FINISHED GRADE
6 LONG SWEEP ELL
7 USE PVC SCH. 40 BELOW GRADE

10 WALL MOUNT CONTROLLER

1" = 1'-0" FX-IRRG-FX-CONT-06

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IR110

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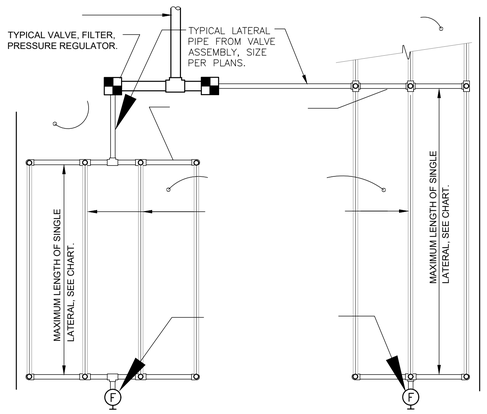
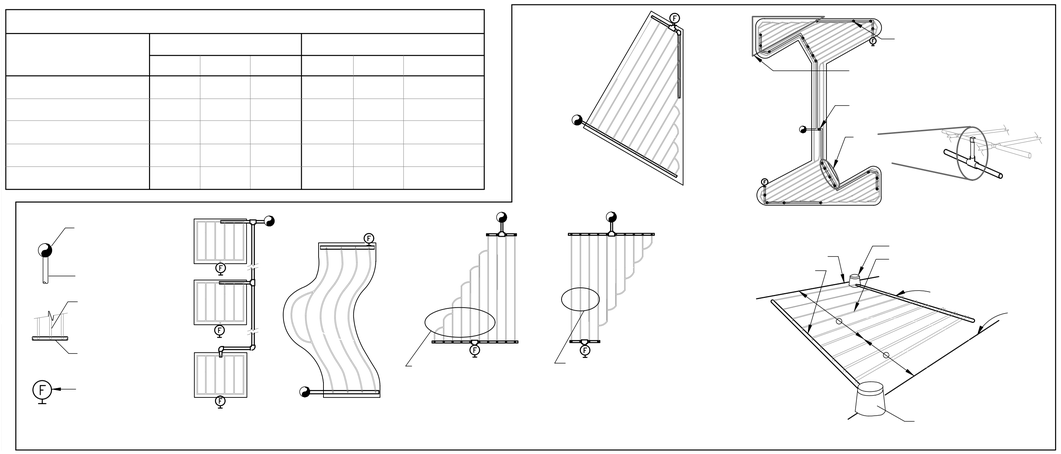


STEP 1: ADD LENGTH OF ALL HDL LATERAL TUBING CONNECTED TO THE HEADER.
STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGHT IN UNITS OF 100.
STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "HDL FLOW PER 100 FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER.
STEP 4: SIZE THE HEADER WITH THE FOLLOWING:
1 TO 6 GPM: 3/4" HEADER. 6 TO 10 GPM: 1" HEADER.
10 TO 20 GPM: 1 1/4" HEADER. 20 TO 30 GPM: 1 1/2" HEADER.



1 TYPICAL HUNTER HDL DRIP LINE REQUIREMENTS
N.T.S.

328413.56-01

NTS 328413.76-04

LEGEND:

1. IRRIGATION HOSE - IH-24-XX-CV PRE-CUT RISERS, OR CUSTOM CUT
2. LATERAL PIPE AS PER PLAN
3. 1/ 2" FPT CONNECTION FROM LATERAL
4. IRRIGATION HOSE - IH-12-XX-CV
5. PLANT TRUNK
6. PLANT MATURE CANOPY
7. HE EMITTER PER PLAN ON IH-FIT-3850 WITH SCREEN CV AND HE-DIFF DIFFUSER CAP. SEE PLANS FOR TOTAL EMITTERS PER PLANT.

3 HE EMITTERS WITH IH HOSE AT PLANT
NTS 328413.13-11

4 DRIP EMITTER ON IH RISER PROFILE VIEW
NTS 328413.13-12

5 DRIP FLUSH VALVE-SUBSURFACE
NTS 328413.49-01

NOTE: INDICATOR BODY CAN BE MAX 1" ABOVE FINISH (NOT INCLUDING MULCH) IN R/W

LEGEND:

1. ECO INDICATOR - ECOID
2. LATERAL PIPE PER PLAN
3. FPT CONNECTION FROM LATERAL
4. BARB ELBOW
5. FLEX TUBING
6. FINISHED GRADE IN TURF
7. ADJACENT MULCH
8. FINISHED GRADE IN PLANTER BED
9. MARLEX STREET ELBOW

6 HUNTER ECO-INDICATOR
NTS 328413-01

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BAR SCALE

SHEET REVISION	DATE

ISSUE	DATE
ISSUE FOR BID	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.12.2025
40% PROGRESS DESIGN	04.15.2025

IRRIGATION DETAILS

SCALE: As indicated

IR120

DATE
05.12.2025

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GR GENERAL REQUIREMENTS

GR-1 MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, WITH CITY OF INGLEWOOD AMENDMENTS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

GR-2 REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.

GR-3 VERIFY ALL DIMENSIONS, ELEVATIONS, & SITE CONDITIONS BEFORE STARTING WORK. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES.

GR-4 REFER TO ARCHITECTURAL & CIVIL DRAWINGS FOR EXTERIOR SLABS.

GR-5 DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.

GR-6 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR CHECKING DIMENSIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.

GR-7 DO NOT SCALE THE DRAWINGS.

GR-8 PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHOM IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.

GR-9 INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.

GR-10 REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR, ROOF AND WALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE THE SIZE AND LOCATION OF OPENINGS ASSOCIATED WITH, BUT NOT LIMITED TO, ELECTRICAL, MECHANICAL AND PLUMBING TRADES. SUBMIT FINAL SIZING AND LOCATION REQUIREMENTS OF OPENINGS TO THE OWNER'S REPRESENTATIVE FOR REVIEW.

GR-11 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.

SU SUBMITTALS

SU-1 SUBMITTAL REVIEW FOR ITEMS DESIGNED BY NOUS, 10 BUSINESS DAY REVIEW TIME IS REQUIRED UNLESS OTHERWISE AGREED.

SU-2 RFI REVIEW: ALLOW 5 BUSINESS DAY RESPONSE UNLESS OTHERWISE AGREED.

SU-3 SUBMIT COPIES OF REQUIRED SUBMITTALS TO OWNER'S REPRESENTATIVE FOR REVIEW.

SU-4 CAST-IN-PLACE CONCRETE:

- A. SUBMIT MIX DESIGNS PREPARED, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA FOR EACH CLASS OF CONCRETE. INCLUDE RESULTS OF SLUMP, SHRINKAGE AND COMPRESSION TESTS USED TO ESTABLISH MIX PROPORTIONS. ALSO INCLUDE CERTIFIED MATERIAL CERTIFICATES FOR EACH COMPONENT OF THE MIX.

SU-5 STRUCTURAL STEEL:

- A. SUBMIT MILL CERTIFICATES FOR STRUCTURAL STEEL SHAPES INDICATING STRUCTURAL STRENGTH AND CHEMICAL COMPOSITION FOR EACH HEAT OF STEEL
- B. SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION. INCLUDE AT A MINIMUM ASTM MATERIAL DESIGNATIONS, MEMBER SIZES, SIZES AND TYPES OF WELDS, SIZES AND TYPES OF BOLTS AND DIMENSIONS.
- E. SUBMIT MANUFACTURERS PRODUCT DATA FOR PRIMER AND FINISH PAINT INCLUDING COLOR CHARTS.

SU-6 MECHANICAL ANCHORS: SUBMIT PRODUCT DATA FOR EACH TYPE OF ANCHOR USED.

SU-7 ADHESIVE ANCHORS: SUBMIT PRODUCT DATA FOR EACH TYPE OF ADHESIVE ANCHORING SYSTEM USED.

FN FOUNDATION AND SITE WORK

FN-2 GROUNDWATER WAS NOT ENCOUNTERED DURING EXPLORATION AND IS NOT EXPECTED TO BE A FACTOR IN DEVELOPMENT OF SITE.

FN-3 LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.

FN-4 REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.

FN-5 NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., ARE FOUND.

FN-6 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.

FN-7 REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.

FN-9 PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH. BRACE BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS AND SLABS ON GRADE ARE COMPLETE AND HAVE ATTAINED FULL DESIGN STRENGTH.

FN-10 COMPACT EXCAVATION BACKFILLS IN LAYERS PER THE GEOTECHNICAL REPORT. FIELD OBSERVATION AND TESTING SHALL BE PERFORMED BY THE SOILS ENGINEER DURING GRADING TO ASSIST THE CONTRACTOR IN OBTAINING THE REQUIRED DEGREE OF COMPACTION AND PROPER MOISTURE CONTENT.

FN-11 IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY GEOTECHNICAL ENGINEER AND ADDITIONAL SOILS REPORT MAY BE REQUIRED.

FN-12 IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY STRUCTURAL ENGINEER AND SOILS REPORT MAY BE REQUIRED.

IO STRUCTURAL TEST AND INSPECTIONS

IO-1 AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM THE FOLLOWING TESTS AND INSPECTION. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED BY THE CONTRACT DOCUMENTS.

IO-2 CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/ COMPONENT AS LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LADBS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH A SYSTEM OR COMPONENT PER 1704.4.

IO-3 IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

IO-4 THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TEST AND INSPECTIONS" OF THE CODE OF THE GOVERNING JURISDICTION AS NOTED IN THE GENERAL SECTION OF THESE GENERAL NOTES. AN "X" PRESENT IN COLUMN "C" INDICATES CONTINUOUS INSPECTION & "X" PRESENT IN COLUMN "P" INDICATES PERIODIC INSPECTION.

SOILS

	VERIFICATION AND INSPECTIONS	C	P
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

STRUCTURAL STEEL

	VERIFICATION AND INSPECTIONS	C	P
1.	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:		
	A. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X
	B. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X
2.	INSPECTION OF HIGH-STRENGTH BOLTING:		
	A. SNUG-TIGHT JOINTS.	-	X
	B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMAKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	-	X
	C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMAKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	-
3.	MATERIAL VERIFICATION OF STRUCTURAL STEEL:		
	A. FOR STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	-	X
	B. FOR OTHER STEEL, IDENTIFICATION MARKINGS CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X
	C. MANUFACTURER'S CERTIFIED TESTS REPORT.	-	X
4.	MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
	A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X
	B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X
5. A	INSPECTION OF WELDING - STRUCTURAL STEEL:		
	1. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	X	-
	2. MULTIPASS FILLET WELDS.	X	-
	3. SINGLE-PASS FILLET WELDS > 5/16".	X	-
	4. PLUG AND SLOT WELDS.	X	-
	5. SINGLE-PASS FILLET WELDS < 5/16".	-	X
	6. FLOOR AND ROOF DECK WELDS.	-	X
5. B	INSPECTION OF WELDING - REINFORCING STEEL:		
	1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	X
	2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	-
	3. SHEAR REINFORCEMENT.	X	-
	4. OTHER REINFORCEMENT STEEL.	-	X
6.	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:		
	A. DETAILS SUCH AS BRACING AND STIFFENING.	-	X
	B. MEMBER LOCATIONS.	-	X
	C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	X

CONCRETE

	VERIFICATION AND INSPECTIONS	C	P
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENTS.	-	X
2.	REINFORCING BAR WELDING:		
	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X
	B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	-	X
	C. INSPECT ALL OTHER WELDS	X	-
3.	INSPECT ANCHORS CAST IN CONCRETE.	-	X
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A.	-	X
5.	VERIFYING USE OF REQUIRED DESIGN MIX.	-	X
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X
9.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	-	X

ROUGH CARPENTRY

	VERIFICATION AND INSPECTIONS	C	P
1.	SHEARWALL NAILING WITH NAIL SPACING LESS THAN 4" OC.	-	X
2.	HIGH-STRENGTH DIAPHRAGMS AND DIAPHRAGM NAILING WITH NAIL SPACING LESS THAN 4" OC.	-	X

SO STRUCTURAL OBSERVATIONS

SO-1 NOTIFY THE ENGINEER AT SIGNIFICANT CONSTRUCTION STAGES 72 HOURS IN ADVANCE AND PROVIDE ACCESS FOR THE FOLLOWING MINIMUM STRUCTURAL OBSERVATIONS:

- A. FOUNDATIONS & SLABS ON GRADE
  1. UPON COMPLETION OF REINFORCEMENT AND PRIOR TO CONCRETE POUR
- B. STEEL FRAMING
  1. UPON ERECTION AND ASSEMBLY OF STEEL AND PRIOR TO CLOSEOUT
- C. WOOD FRAMING
  1. UPON COMPLETION OF FRAMING AND PRIOR TO CLOSEOUT

A COPY OF THE LARR AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

ABBREVIATIONS

(E)	EXISTING
(N)	NEW
[UP]	UPSTANDING BEAM
[VIF]	VERIFY IN FIELD
AB	ANCHOR BOLT
ARCH	ARCHITECTURAL
B	BOTTOM BAR(S)
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BOE	BASE OF EXCAVATION
BOT	BOTTOM
CA	COLUMN ABOVE
CB	COLUMN BELOW
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DBL	DOUBLE
DEG	DEGREE(S)
DIA	DIAMETER
DWG	DRAWING
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EMBED	EMBEDDED OR EMBEDMENT
EN	EDGE NAILING
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
EXT	EXTERIOR
FDN	FOUNDATION
FG	FINISHED GRADE
FN	FIELD NAILING
FS	FAR SIDE
FTG	FOOTING
GA	GAUGE
GB	GRADE BEAM
HDR	HEADER
HGR	HANGER

ABBREVIATIONS

HORIZ	HORIZONTAL
INT	INTERIOR
LWC	LIGHTWEIGHT CONCRETE
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
NO. OR #	NUMBER
NS	NEAR SIDE
OC	ON CENTER
OH	OPPOSITE HAND
OMF	ORDINARY MOMENT FRAME
PC	PILE CAP
PEN	PENETRATION
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
RC	REINFORCED CONCRETE
REINF	REINFORCEMENT OR REINFORCING STEEL
REQ'D	REQUIRED
SCBF	SPECIAL CONCENTRICALLY BRACED FRAME
SCHED	SCHEDULE
SHTHG	SHEATHING
SIM	SIMILAR
SLRS	STEEL LATERAL RESISTING SYSTEM
SMRF	SPECIAL MOMENT RESISTING FRAME
SOG	SLAB ON GRADE
STD	STANDARD
SYM	SYMMETRIC
T	TOP BAR(S)
T&B	TOP AND BOTTOM
T.O.	TOP OF
THK	THICK / THICKNESS
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOFR	TOP OF FRAMING
TOG	TOP OF GRADE
TOPC	TOP OF PILE CAP
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
WP	WORK POINT

DC DESIGN CRITERIA

DC-1 APPLICABLE CODE: 2022 CALIFORNIA BUILDING CODE WITH CITY OF INGLEWOOD AMENDMENTS

DC-2 PROJECT TYPE: FOUR SINGLE-STORY STRUCTURES INCLUDING OFFICES AND A MAINTENANCE WAREHOUSE

DC-3 TYPE OF CONSTRUCTION: LIGHT-WEIGHT WOOD CONSTRUCTION WITH STEEL AND STEEL MOMENT FRAME BUILDINGS ON SHALLOW FOUNDATIONS

DC-4 FOUNDATION DESIGNS ARE IN ACCORDANCE WITH THE RECOMMENDATIONS PROVIDED IN LETTER OF LIMITED GEOTECHNICAL INVESTIGATION, PROPOSED BUILDINGS 700 WARREN LANE INGLEWOOD, CALIFORNIA PROJECT NUMBER: G25-007/1 DATED 04/28/2025 BY GARCREST ENGINEERING AND CONSTRUCTION, INC.

ALLOWABLE NET SOIL PRESSURE	=2500 PSF
COEFFICIENT OF FRICTION	=0.4 PSF
PASSIVE RESISTANCE	=350 PCF

DC-5 THE STRUCTURAL SCOPE INVOLVES NEW CONSTRUCTION FOR NEW BUILDINGS INCLUDING OFFICES AND MAINTENANCE WAREHOUSE

DC-6 GRAVITY LOADS:

DEAD LOADS

BUILDING #1 = 15PSF
BUILDING #2 ROOF = 15PSF
BUILDING #3 WEST AND EAST ROOF = 15PSF

LIVE LOADS

BUILDING #1 = 20PSF
BUILDING #2 ROOF = 20PSF
BUILDING #3 WEST AND EAST WING ROOF = 20PSF

DC-7 SEISMIC DESIGN:
THE STRUCTURE HAS BEEN EVALUATED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE.

SEISMIC DESIGN CATEGORY = D
SITE CLASS = D (DEFAULT)
ANALYSIS PROCEDURE = ELF
RHO = 1.0

S_S	=	1.993g
S_1	=	0.68g
S_{DS}	=	1.288g
I	=	1.0 FOR OCCUPANCY CATEGORY (II)

X DIRECTION
STRUCTURE: BUILDING #1 WORKSHOP
LFRS = STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
R = 3
OVERSTRENGTH = 3
C_S = 0.430
BASE SHEAR V = 81.9K

Y DIRECTION
STRUCTURE: BUILDING #1 WORKSHOP
LFRS = OMF
R = 3.5
OVERSTRENGTH = 3
C_S = 0.368
BASE SHEAR V = 70.2K

STRUCTURE: BUILDING #2 OFFICE
LFRS = WOOD SHEAR WALLS
R = 6.5
OVERSTRENGTH =
C_S = 0.198
BASE SHEAR V = 11.3K

STRUCTURE: BUILDING #3 OFFICE
LFRS = WOOD SHEAR WALLS
R = 6.5
OVERSTRENGTH = 3.0
C_S = 0.198
BASE SHEAR V = 11.3K

STRUCTURE: BUILDING #4 STORAGE
LFRS = WOOD SHEAR WALLS
R = 6.5
OVERSTRENGTH = 3.0
C_S = 0.198
BASE SHEAR V = 12.1K

DC-8 WIND DESIGN:

BASIC WIND SPEED, V = 94MPH (3 SECOND GUST)
EXPOSURE CATEGORY = B
GUST EFFECT FACTOR = 0.85
Kd = 0.85
Kz = 0.70
Kzt = 1.0
Ke = 1.0
ENCLOSURE CLASSIFICATION = ENCLOSED
INTERNAL PRESSURE COEFFICIENT GCpi = ±0.18

STRUCTURAL DRAWING LIST

Sheet Number	Sheet Name
S000 SERIES: SHEET LIST, GENERAL NOTES, TYPICAL DETAILS	
S000	GENERAL NOTES, ABBREVIATIONS, & SHEET LIST
S001	GENERAL NOTES
S010	TYPICAL CONCRETE DETAILS
S011	TYPICAL CONCRETE DETAILS
S012	TYPICAL CONCRETE DETAILS
S013	TYPICAL CONCRETE DETAILS
S020	TYPICAL STEEL DETAILS
S021	TYPICAL STEEL DETAILS
S030	TYPICAL WOOD DETAILS
S031	TYPICAL WOOD DETAILS
S032	TYPICAL WOOD DETAILS
S033	TYPICAL WOOD DETAILS
S034	TYPICAL WOOD DETAILS
S040	TYPICAL MASONRY DETAILS
S050	TYPICAL METAL DECK DETAILS
S100 SERIES: SITE PLAN	
S100	SITE PLAN
S200 SERIES: FOUNDATION & FRAMING PLANS	
S200	BUILDING 1 - FOUNDATION & ROOF FRAMING PLAN
S203	BUILDING 2 & 3 - FOUNDATION AND ROOF FRAMING PLANS
S206	BUILDING 4 - FOUNDATION & ROOF FRAMING PLAN
S250 SERIES: BUILDING ELEVATIONS & SECTIONS	
S250	BUILDING 1 BUILDING ELEVATIONS
S251	BUILDING 1 BUILDING SECTIONS
S252	BUILDING 2 & 3 BUILDING SECTIONS
S253	BUILDING 4 BUILDING SECTIONS
S258	BUILDING VIEWS
S700 SERIES: PROJECT SPECIFIC DETAILS	
S700	PROJECT SPECIFIC DETAILS
S701	PROJECT SPECIFIC DETAILS
S702	PROJECT SPECIFIC DETAILS

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

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GENERAL NOTES, ABBREVIATIONS, & SHEET LIST

SCALE: 1" = 1'-0"

S000

DATE

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CC **CAST IN PLACE CONCRETE**

CC-1 PROPORTION, MIX, TRANSPORT, AND PLACE CAST-IN-PLACE CONCRETE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE," UON.

CC-2 CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.

CC-3 ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. SUBMIT ALTERNATE JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.

CC-4 AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.

CC-5 AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING MASONRY, THOROUGHLY ROUGHEN CONTACT SURFACES BY LIGHT SANDBLASTING OR OTHER SUITABLE MEANS AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.

CC-6 REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN.

CC-7 CONTINUOUSLY MOIST CURE CONCRETE SLABS-ON-GRADE FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS CAN BE USED BASED ON SATISFACTORY PERFORMANCE ON PREVIOUS APPLICATIONS. CONTRACTOR TO SUBMIT SPECIFICATIONS FOR REVIEW AND APPROVAL.

CC-8 NON-SHRINK GROUT: NON-METALLIC AGGREGATE TYPE, COMPLYING WITH ASTM C1107 AND CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.

CC-9 CONCRETE TYPES:

LOCATION	28 DAY f'c	TYPE
SHALLOW FOUNDATIONS, MISC CURBS, PADS, ETC.	2500 PSI	NORMAL WEIGHT
SLABS ON GRADE	3000 PSI	NORMAL WEIGHT
WALLS, SUSPENDED SLABS, AND COLUMNS	5000 PSI	NORMAL WEIGHT

CC-10 CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS:

LOCATION	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	
- ALL BARS	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
- #6 THROUGH #18 BARS	2"
- #5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
- SLABS, WALLS, JOISTS: #14 AND #18 BARS	1 1/2"
- SLABS, WALLS, JOISTS: #11 AND SMALLER	3/4"
- BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS AND HOOPS	1 1/2"

RE **REINFORCING STEEL**

RE-1 FABRICATE AND PLACE REINFORCING STEEL IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING CONCRETE REINFORCING" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE," UON.

RE-2 ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.

RE-3 MECHANICAL COUPLERS: LENTON THREADED OR INTERLOCK COUPLERS BY ERICO (IAPMO UES ER-0129 & LARR 24507), OR EXTENDER BY HEADED REINFORCEMENT CORPORATION (ICC ESR-2764 & LARR 25347). COUPLERS FOR BEAM AND SLAB BARS AT FORMED CONSTRUCTION JOINTS MAY BE LENTON FORM SAVERS BY ERICO (IAPMO ER-0188 & LARR 25893).

RE-4 WELD REINFORCING STEEL IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED WELDERS.

RE-5 TERMINATE REINFORCING STEEL IN STD HOOKS, UNLESS OTHERWISE SHOWN.

RE-6 PROVIDE REINFORCING SHOWN OR NOTED CONTINUOUS IN LENGTHS AS LONG AS PRACTICABLE.

RE-7 REINFORCING STEEL #8 AND LARGER AND ALL REINFORCING STEEL TO BE WELDED TO BE ASTM A706, 60KSI. ALL OTHER REINFORCING STEEL TO BE ASTM A615, 60KSI.

RE-8 SMOOTH DOWELS IN SLAB ON GRADE TO BE ASTM A36, 36KSI.

SS **STRUCTURAL STEEL**

SS-1 AISC CERTIFIED FABRICATOR IS REQUIRED FOR ALL STRUCTURAL STEEL.

SS-2 FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS." WELDED CONNECTIONS TO CONFORM TO AWS D1.1.

SS-3 HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.

SS-4 STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO VIEW IN THE COMPLETE BUILDING ARE DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).

SS-5 ARC-WELDING ELECTRODE / FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7XTXX OR E70XXX MINIMUM AS APPLICABLE. DEMAND CRITICAL WELDS, WHERE NOTED AS "DC", SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB (27J) AT -20°F (-29°C), AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD, AND 40 FT-LB (54J) AT 70°F (21°C), WHEN THE STEEL FRAME IS NORMALLY ENCLOSED AND MAINTAINED AT A TEMPERATURE OF 50°F (10°C) OR HIGHER.

SS-6 WELDERS TO BE CERTIFIED BY AWS . ALL SHOP WELDS MUST BE PERFORMED IN AN AWS CERTIFIED OR LADBS LICENSED FABRICATORS SHOP.

SS-7 WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.

SS-8 FIELD WELDING TO BE DONE BY WELDERS CERTIFIED BY AWS OR THE LADBS FOR STRUCTURAL STEEL. CONTINUOUS SPECIAL INSPECTION BY DEPUTY INSPECTOR IS REQUIRED.

SS-9 PROVIDE NATURAL CAMBER UP, UNLESS OTHERWISE NOTED, EXCEPT AT CANTILEVERS. AT CANTILEVERS PROVIDE CAMBER SUCH THAT TIP OF CANTILEVER IS ABOVE FINAL ELEVATION.

SS-10 SPLICE MEMBERS ONLY WHERE INDICATED.

SS-11 STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTION	MATERIAL TYPE
ROLLED SHAPES	
WIDE FLANGES AND WT	ASTM A992, GR50
CHANNELS, ANGLES & OTHER	ASTM A36
PLATES	
COLUMN BASE PLATES	ASTM A572, GR 50
BRACE GUSSET PLATES	ASTM A572, GR 50
BEAM COVER/SIDE PLATES	ASTM A36
COLUMN CONTINUITY PLATES	ASTM A572, GR 50
BEAM STIFFENER PLATES	ASTM A36
DECK CLOSURE PLATES	ASTM A36
OTHER, OUN	ASTM A572, GR 50
OTHER TYPES	
STEEL PIPE	ASTM A53, GRADE B
HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500, GRADE B
STAINLESS STEEL SHAPES, PLATES AND BARS	ASTM A276
BOLTS	ASTM A325X
MACHINE BOLTS	ASTM A307
ANCHOR BOLTS / ANCHOR RODS	ASTM F1554, GR 36
WELDABLE THREADED RODS	ASTM F1554, GR 55 S1
WELDED SHEAR CONNECTORS	ASTM A108 GRADE 1015 THROUGH 1020
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
HARDENED WASHERS	ASTM F436
UNHARDENED WASHERS	ASTM F844
PLAIN WASHERS	ANSI B18.22.1
BEVELED WASHERS	ANSI B18.23.1

SLRS **STEEL LATERAL RESISTING SYSTEM**

SLRS-1 HIGH-STRENGTH SLIP-CRITICAL BOLTS SHALL BE USED FOR ALL "STEEL LATERAL RESISTING SYSTEM" (SLRS) MEMBER STEEL TO STEEL CONNECTIONS, UNO.

SLRS-2 ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE STEEL LATERAL RESISTING SYSTEM (SLRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING, AND INSPECTION REQUIREMENTS OF AWS D1.8 AND AISC 341, AND SHALL USE A FILLER METAL WITH A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT 0°F.

SLRS-3 WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT -20°F AND 40 FT-LB AT 70°F. SEE AWS D1.8, SECTION 6.3.6, FOR CVN TEST CRITERIA. "DC" INDICATES A DEMAND CRITICAL WELD.

SLRS-4 WELDERS PERFORMING WELDING WITHIN THE "SLRS" SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.8 CHAPTER 5.

SLRS-5 INTERMEDIATE MOMENT FRAMES AND SPECIAL MOMENT FRAMES WELDS FOR COLUMN SPLICES AND COLUMN TO BASEPLATE CONNECTIONS SHALL BE DEMAND CITICAL WELDS.

SLRS-6 WHERE A PORTION OF A STRUCTURAL STEEL MEMBER IS DESIGNATED AS A PROTECTED ZONE, IT SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

- A . TACK WELDS, AIR-ARC GOUGING, THERMAL CUTTING, AND OTHER DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS, SHALL BE REPAIRED AS REQUIRED BY SEOR.
- B . WELDED SHEAR STUDS AND DECKING ATTACHMENTS THAT PENETRATE THE BEAM FLANGE SHALL NOT BE PLACED ON BEAM FLANGES. ARC SPOT WELDS AS REQUIRED TO SECURE METAL DECK ARE PERMITTED.
- C . WELDED, BOLTED, SCREWED, OR SHOT-IN ATTACHMENTS FOR PERIMETER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING, OR OTHER CONSTRUCTION ARE PROHIBITED.
- D . SEE AISC 341 FOR ADDITIONAL REQUIREMENTS.

RC **ROUGH CARPENTRY**

RC-1 FRAMING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER GRADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING GRADES:

- A. SILLS: STUD GRADE PRESSURE OR PRESERVATIVE TREATED, NATURALLY DURABLE, OR FOUNDATION GRADE REDWOOD; 19% MOISTURE CONTENT, UON.
- B. STUDS: STUD GRADE; 19% MOISTURE CONTENT, UON.
- C. JOISTS, PLANKS AND PLATES: DF #2; 15% MOISTURE CONTENT, UON.
- D. BEAMS, DF #1; 19% MOISTURE CONTENT, UON.
- E. POSTS, DF #1; 19% MOISTURE CONTENT, UON.
- F. FRAMING, BLOCKING AND BRIDGING: STUD GRADE; 15% MOISTURE CONTENT, UON.
- G. PLYWOOD BLOCKING: DF #2; 19% MOISTURE CONTENT.
- H. BACKING: PER CONSTRUCTION; 19% MOISTURE CONTENT

RC-2 MANUFACTURED LUMBER:

- A. LVL: MICROLAM LVL 1.9E, ICC ESR-1387 & LARR 25202.
- B. PSL: PARALLAM PSL 2.0E, ICC ESR-1387 & LARR 25202.

RC-3 PANEL SHEATHING: IDENTIFY WOOD STRUCTURAL PANELS WITH THE APPROPRIATE TRADEMARK OF APA-THE ENGINEERED WOOD ASSOCIATION AND MEET THE REQUIREMENTS OF THE VOLUNTARY PRODUCT STD PS-1 OR PS-2 AND APA PRP-108 PERFORMANCE STD.

- A. PANEL SHEATHING TO BE EXPOSURE 1.
- B. PLYWOOD PANELS TO BE 5-PLY MINIMUM, EXCEPT 3/8" PANELS TO BE 3-PLY MINIMUM.
- C. OSB PANELS MAY BE USED WITH APPROVAL OF SEOR.
- D. PLYWOOD TO BE C-C GRADE AT LOCATIONS EXPOSED TO WEATHER; CD GRADE ELSEWHERE.
- E. SHEATH ALL EXTERIOR WALLS WITH 15/32" PLYWOOD WITH 10d NAILS WITH (6",6",12") OC, (BN, EN, FN).
- F. PROVIDE THE FOLLOWING GRADE AND SPAN RATINGS:

PANEL THICKNESS	MINIMUM GRADE	ROOF/FLOOR RATING
3/8	STRUCTURAL 1	24/0
7/16	STRUCTURAL 1	24/16
15/32	STRUCTURAL 1	32/16
19/32 AND 5/8	CD/CC	40/20
3/4	CD/CC	48/24
7/8 AND 1	CD/CC	54/32
1 1/8	CD/CC	60/48

RC-4 ROUGH HARDWARE:

- A. NAILS: COMMON WIRE NAILS, FEDERAL SPECIFICATION FF-N-105B, STANDARD LENGTHS UON USE HOT-DIPPED ZINC-COATED GALVANIZED NAILS FOR EXTERIOR INSTALLATIONS AND WHEN PENETRATING PRESSURE TREATED OR FIRE-RETARDANT LUMBER.
- B. BOLTS AND THREADED RODS: ASTM A307, SQ OR HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS. USE MALLEABLE IRON WASHERS UNDER HEAD AND NUT WHEN IN CONTACT WITH WOOD. AT SILL PLATES USE 2"x2"x3/16" MINIMUM PLATE WASHERS. AT ALL SHEARWALL SILL PLATE ANCHORS, USE THE FOLLOWING PLATE WASHERS:

5/8" DIA ANCHOR BOLTS = 3"X3"X1/4" SQ. WASHER
3/4" DIA ANCHOR BOLTS = 3"X3"X5/16" SQ. WASHER
7/8" DIA ANCHOR BOLTS = 3"X3"X5/16" SQ. WASHER
1" DIA ANCHOR BOLTS = 3 1/2"X3 1/2"X3/8" SQ. WASHER

- C. LAG SCREWS: ASTM A307, ANSI/ASME STANDARD B18.2.1. USE ANSI B18.22.1 WASHERS UNDER HEAD WHEN IN CONTACT WITH WOOD.
- D. SCREWS: ASTM A307, ANSI/ASME STANDARD B18.6.1. USE CADMIUM-PLATED PAN OR ROUND HEADED SCREWS AT STEEL TO WOOD AND WOOD TO WOOD CONNECTIONS.
- E. BOLTS, NUTS, WASHERS, STRAPS AND OTHER HARDWARE EXPOSED TO THE WEATHER TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- F. FRAMING CLIPS, SHEET METAL STRAPS, ETC.: SIMPSON, UNIVERSAL, OR EQUIVALENT, WITH LARR REPORTS. DESIGNATIONS ON DRAWINGS ARE BASED ON SIMPSON CATALOGUE NUMBERS (IAPMO UES ER 112 & LARR 25814). PROVIDE THE TYPE OF NAILS SPECIFIED BY THE MANUFACTURER AND FULLY DRIVE NAILS INTO ALL HOLES OF THE CONNECTOR UNLESS NOTED OTHERWISE ON THE PLANS. ALL CONNECTORS SHALL BE GALVANIZED OR HAVE ANOTHER FACTORY APPLIED FINISH. ALL STEEL FRAMING HANGERS TO BE TORSIONAL RESTRAINT. SOLID BLOCKING REQUIRED BETWEEN JOISTS WHERE TORSIONAL RESTRAINT HANGERS DO NOT OCCUR.

RC-5 BOLT AND SCREW INSTALLATION

- A. DRILL BOLT HOLES 1/32 TO 1/16 (MAX) INCH LARGER IN DIA THAN THE BOLT NOMINAL DIA.
- B. DRILL PRE-BORED LEAD HOLES FOR WOOD SCREWS AS FOLLOWS.

1. PROVIDE LEAD HOLE 40% - 70% OF THREADED SHANK DIA AND FULL DIA FOR SMOOTH SHANK PORTION.
2. DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT 7/8 THE DIA OF THE WOOD SCREW.
3. EXTEND THE LEAD HOLE FOR THE THREADED PORTION OF THE SCREW WITH A DRILL BIT WHOSE DIA IS 40%-70% THE DIA OF THE SCREW AT THE ROOT OF THE THREAD.
4. INSERT THE SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.
5. LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.

- C. DRILL PRE-BORED LEAD HOLES FOR LAG SCREWS AS FOLLOWS.

A/SS 1. PROVIDE LEAD HOLE 40% - 70% OF THREADED SHANK DIA AND FULL DIA FOR SMOOTH SHANK PORTION.
2. DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT OF THE SAME DIA AS THE LAG SCREW.
A/SS 3. EXTEND THE LEAD HOLE FOR THE THREADED PORTION OF THE LAG SCREW WITH A DRILL BIT WHOSE DIA IS 60 PERCENT OF THE NOMINAL LAG SCREW DIA.
4. INSERT LAG SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.
A/SS 5. LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.

RC **ROUGH CARPENTRY**

RC-6 HOLDOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLDOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURNED JUST PRIOR TO COVERING WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF ANCHORAGE DEVICE. PLATE SHALL BE 0.299x3x3 IN MIN.

RC-7 HOLDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.

RC-8 INSTALL SOLID BLOCKING BETWEEN JOISTS AT ENDS AND OVER SUPPORTS. PROVIDE 2 INCH BY 3 INCH CROSS BRIDGING, METAL BRIDGING, OR SOLID BLOCKING BETWEEN JOISTS IN SPANS EQUALLY SPACED 8 FEET OC MAXIMUM AND WHERE INDICATED.

RC-9 DO NOT USE WOOD SHINGLE SHIMS UNDER STUDS, JOISTS, BEAMS, OR POSTS.

RC-10 NAILING:

- A. DRIVE NAILS PERPENDICULAR TO THE GRAIN, UON
- B. PREDRILLED HOLES TO 3/4 OF NAIL DIA WHERE SPECIFIED AND WHEN WOOD TENDS TO SPLIT.
- C. AIR-DRIVEN NAILS TO BE FULL-HEADED NAILS. DO NOT OVERDRIVE NAILS.
- D. PANEL SHEATHING

1. AT DIAPHRAGM SHEATHING, USE RING SHANK NAILS. USE SMOOTH SHANK NAILS AT WALLS.
2. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND APPROVAL BY THE OWNER'S REPRESENTATIVE. NAIL HEADS THAT PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF THE MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE INSTALLATION IS UNSATISFACTORY. MACHINE NAILING IS NOT APPROVED IN 5/16" OR LESS SHEATHING.
3. DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD TO BE PERPENDICULAR TO SUPPORTS. DIAPHRAGM SHEATHING MUST BE BLOCKED AT EDGES. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.8(1).
4. GLUE FLOOR SHEATHING AT ALL POINTS OF CONTACT.

- E. PROVIDE MINIMUM NAILING PER TABLE 2304.10.2 OF THE IBC/CBC, UON

FASTENING SCHEDULE

	CONNECTION	NAILING	STAPLES	LOCATION
1	JOIST TO SILL OR GIRDER	3-8d COMMON	3-3" 14 GA STAPLES	TOE NAIL
2	BRIDGING TO JOISTS	2-8d COMMON	2-3" 14 GA STAPLES	TOE NAIL, EA END
3	SOLE PLATE TO JOISTS OR BLOCKING	16d COMMON @ 16" OC	3" 14 GA STAPLES @ 12" OC	TYP FACE
4	TOP PLATE TO STUD	2-16d COMMON	3-3" 14 GA STAPLES	END NAIL
5A	STUD TO SOLE PLATE	4-8d COMMON	3-3" 14 GA STAPLES	TOE NAIL
5B	STUD TO SOLE PLATE	2-16d COMMON	3-3" 14 GA STAPLES	END NAIL
6	DOUBLE STUDS	16d COMMON @ 24" OC	3" 14 GA STAPLES @ 8" OC	FACE
7A	DOUBLE TOP PLATE	16d COMMON @ 16" OC	3" 14 GA STAPLES @ 12" OC	TYP FACE
7B	DOUBLE TOP PLATE	8-16d COMMON	12-3" 14 GA STAPLES	LAP
8	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON	3-3" 14 GA STAPLES	TOE NAIL
9	RIM JOISTS TO TOP PLATE	8d COMMON @ 6" OC	3" 14 GA STAPLES @ 6" OC	TOE NAIL
10	TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON	3-3" 14 GA STAPLES	FACE
11	CONT HEADER, TWO PIECES	16d COMMON	-	16" OC ALONG EDGE
12	CEILING JOISTS TO PLATE	3-8d COMMON	5-3" 14 GA STAPLES	TOE NAIL
13	CONT HEADER TO STUD	4-8d COMMON	-	TOE NAIL
14	CEILING JOISTS, LAPS OVER PARTITIONS	3-16d COMMON	3-3" 14 GA STAPLES	FACE
15	CEILING JOISTS PARALLEL TO RAFTERS	3-16d COMMON	4-3" 14 GA STAPLES	FACE
16	RAFTER TO PLATE	3-8d COMMON	3-3" 14 GA STAPLES	TOE NAIL
17A	BUILT-UP GIRDER BEAMS	20d COMMON @ 32" OC	3" 14 GA STAPLES @ 24" OC	FACE NAIL @ T&B STAGGERED
17B	BUILT-UP GIRDER BEAMS	2-20d COMMON	3-3" 14 GA STAPLES	FACE NAIL @ ENDS & EACH SPLICE
18	JOIST TO BAND JOIST	3-16d COMMON	4-3" 14 GA STAPLES	TOE NAIL

MR **UNIT MASONRY**

MR-1 MINIMUM COMPRESSIVE STRENGTH OF MASONRY, f'm EQUAL TO 2000 PSI AT 28 DAYS.

MR-2 MASONRY UNITS: ASTM C-90, GRADE N, TYPE 1, MEDIUM WEIGHT, HOLLOW, LOAD BEARING UNITS. MINIMUM COMPRESSIVE STRENGTH: 2000 PSI.

MR-3 MORTAR: ASTM C-270, TYPE S.

MR-4 GROUT:ASTM C-476, MINIMUM COMPRESSIVE STRENGTH: 2000 PSI.

MR-5 REINFORCING BAR LAP: 65 BAR DIAMETERS, WHERE MULTIPLE BARS ARE INSTALLED IN CELL OR COURSE, STAGGER LAPS A MINIMUM OF 2'-0".

MR-6 CENTER VERTICAL REINFORCING IN WALL UNLESS OTHERWISE NOTED.

MR-7 LAY UNITS IN RUNNING BOND AND MAINTAIN VERTICAL CONTINUITY OF CORES OR CELL CAVITIES. USE OPEN END UNITS AT LOCATIONS OF VERTICAL REINFORCING. PLACE HORIZONTAL REINFORCING IN BOND BEAM UNITS.

MR-8 FILL ALL CELLS SOLIDLY WITH GROUT. CLEAN CELLS AND BOND BEAMS OR MORTAR PROTRUSIONS AND DEBRIS BEFORE GROUTING.

MR-9 DOWELS FROM THE FOUNDATION TO MATCH SIZE AND LOCATION OF VERTICAL REINFORCING IN MASONRY, UNLESS OTHERWISE NOTED.

MR-10 PROVIDE VERTICAL CONTROL JOINTS IN THE WALLS AT LOCATIONS SHOWN ON THE DRAWINGS.

MR-11 LOW-LIFT GROUTING: LAY UNITS MAXIMUM OF 2 FEET HIGH BEFORE GROUTING. PLACE GROUT IN A CONTINUOUS PLACEMENT GROUT LIFTS NOT EXCEEDING 2 FEET. COMPLETELY GROUT THE FULL HEIGHT OF THE WALL SECTION IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.

MR-12 HIGH-LIFT GROUTING: LAY UNITS A MAXIMUM OF 12 FEET HIGH BEFORE GROUTING. PLACE GROUT IN A CONTINUOUS PLACEMENT IN GROUT LIFTS NOT EXCEEDING 4 FEET. COMPLETELY GROUT THE FULL HEIGHT OF THE WALL SECTION IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR. PROVIDE CLEANOUTS AT EVERY CELL ALONG THE BOTTOM COURSE OF EACH GROUT LIFT. USE SIKA GROUT AID TYPE II OR E-Z MIX ADMIXTURE IN THE GROUT TO REDUCE EARLY WATER LOSS AND PRODUCE AN EXPANSIVE ACTION.

MR-13 PROVIDE THE FOLLOWING MINIMUM CLEARANCES:

LOCATIONS	CLEARANCES
BETWEEN REINFORCING AND INSIDE FACE OF MASONRY UNITS	1/2" CLEAR
BETWEEN PARALLEL BARS	1/2" CLEAR
EMBEDDED BOLTS	1/2" CLEAR ALL AROUND

AD-M **MECHANICAL ANCHORS IN HARDENED CONCRETE**

AD-M1 EXPANSION ANCHOR SYSTEM (CONCRETE): HILTI KWIK BOLT TZ2 (ICC ESR-4266 WITH LABC SUPPLEMENT) OR SIMPSON STRONG BOLT II (ICC ESR-3037 WITH LABC SUPPLEMENT). USE ONLY EXPANSION ANCHOR SYSTEMS THAT HAVE BEEN PRE-QUALIFIED IN ACCORDANCE WITH THE PROVISIONS OF ICC ES AC193, APPROVED FOR USE IN CRACKED CONCRETE AND RECOGNIZED WITH ANCHOR CATEGORY 1 LISTINGS. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC ESR FOR THE SPECIFIC ANCHOR.

AD-M2 WHERE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR APPLICABLE ICC ESR CALL OF THE APPLICATION OF AN INSTALLATION TORQUE SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. FOLLOWING ATTAINMENT OF 10% OF THE SPECIFIED TORQUE, 100% OF COMPLETE TURNS OF THE NUT. THE SPECIFIED INSTALLATION TORQUE SHALL NOT BE EXCEEDED.

AD-M3 USE OF ZINC-COATED CARBON STEEL ANCHORS IS LIMITED TO DRY, INTERIOR LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE STAINLESS STEEL ANCHORS FOR APPLICATIONS EXPOSED TO EXTERIOR WEATHER CONDITIONS.

AD-M4 EXPANSION ANCHORS FOR NON-VIBRATION ISOLATED MECHANICAL EQUIPMENT RATED OF 10HP ARE NOTE PERMITTED BY ASCE 7-05 SECTION 13.6.5.5. ANCHORS INSTALLED IN OVERHEAD CONDITIONS FOR NON-VIBRATION ISOLATED EQUIPMENT WITH RECIPROCATING OR ROTATING MECHANISMS SHALL BE UNDERCUT ANCHORS.

AD-M5 WHERE MECHANICAL ANCHORS ARE USED IN A STANDOFF CONFIGURATION (I.E., WHERE THE ATTACHMENT IS SEPARATED FROM THE CONCRETE IN WHICH THE ANCHOR IS INSTALLED). A NUT AND WASHER SHALL BE PROVIDED AT THE CONCRETE SURFACE TO FACILITATE SETTING OF THE ANCHOR AND TO TRANSMIT AXIAL COMPRESSION LOADS INTO THE CONCRETE.

AD-M6 UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET NEED NOT BE TESTED. UNLESS OTHERWISE NOTED BY ENFORCEMENT AGENCY OR ENGINEER OF RECORD.

AD-M7 WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE. USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE-OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN WHICH EVER IS GREATER, BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

AD-M8 IF REBAR:

- A. IF THE ANCHOR MAY BE SHIFTED, FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. THE MINIMUM CLEAR SPACING BETWEEN AN ABANDONED HOLE AND A DRILLED HOLE USED FOR A POST INSTALLED ANCHOR SHALL NOT BE LESS THAN 1-1/2 ANCHOR DIAMETERS UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND OSHPD.
- B. IF THE ANCHOR LOCATION MAY NOT BE SHIFTED, CORE AN OVERSIZED HOLE AT THE DIRECTION OF THE ENGINEER OF RECORD AND INSTALL AN APPROVED ADHESIVE ANCHOR IN PLACE.

AD-M9 IF THE CONCRETE CRACKS DURING THE INSTALLATION OF THE ANCHOR. THE ANCHOR SHALL BE REMOVED.

BASE MATERIAL	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
STEEL	X-U	3/8"	1/2"
CONCRETE	X-U	1"	3"

AD-C **ADHESIVE ANCHORS AND REBAR IN HARDENED CONCRETE**

AD-C1 ADHESIVE ANCHORS SYSTEM IN CONCRETE: HILTI HIT-RE 500-V3 (ICC ESR-3814 WITH LABC SUPPLEMENT) AND SIMPSON STRONG TIE SET-3G (ICC ESR-4057). USE ONLY ADHESIVE ANCHOR SYSTEMS THAT HAVE BEEN PRE-QUALIFIED IN ACCORDANCE WITH THE PROVISIONS OF ICC ES AC306, APPROVED FOR USE IN CRACKED CONCRETE. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC ES EVALUATION SERVICES REPORT TO THE SPECIFIC ANCHOR.

AD-C2 REMOVE GREASE, OIL, RUST AND ANY OTHER LAITANCE FROM RODS AND DOWELS PRIOR TO INSTALLATION.

AD-C3 ALL HOLES FOR POST-INSTALLED ANCHORS SHALL BE DRILLED, CLEANED, AND PREPARED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR THE APPLICABLE ICC ESR. ALL DEBRIS SHALL BE REMOVED BY IN-HOLE BRUSHING COMBINED WITH VACUUM OR OIL-FREE COMPRESSED AIR. JETTING HOLES WITH WATER IS NOT PERMITTED.

AD-C4 WHERE AN ANCHOR DOES NOT SET PROPERLY OR REINFORCEMENT IS ENCOUNTERED DURING DRILLING, THE DRILLED HOLE MAY NOT BE REUSED. ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT. THE MINIMUM CLEAR SPACING BETWEEN AN ABANDONED HOLE AND A DRILLED HOLE USED FOR A POST INSTALLED ANCHOR SHALL NOT BE LESS THAN 1 1/2 ANCHOR DIAMETERS UNLESS OTHERWISE APPROVED BY THE ENFORCEMENT AGENCY. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER OF RECORD WILL DETERMINE A NEW LOCATION.

AD-S **SCREW ANCHORS IN HARDENED CONCRETE**

AD-S1 SCREW ANCHOR SYSTEM: HILTI KWIK HUS-EZ CARBON STEEL SCREW ANCHORS (ICC ESR-3027 WITH LABC SUPPLEMENT) OR SIMPSON STRONG TIE "TITEN-HD" (ICC ESR-2713 WITH LABC SUPPLEMENT).

AD-S2 INSTALL ANCHORS IN DRY INTERIOR APPLICATIONS ONLY.

AD-S3 ANCHORS MAY NOT BE ATTACHED TO UNDERSIDE OF A BEAM, SLAB, OR METAL DECK W/ CONCRETE FILL.

AD-S4 RE-USE OF SCREW ANCHORS OR SCREW ANCHOR HOLES IS NOT PERMITTED.

EDWARD VINCENT PARK MAINTENANCE FACILITY

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STATE OF CALIFORNIA

BAR SCALE

SHEET REVISION	DATE

ISSUE	DATE
ISSUE FOR BID	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

GENERAL NOTES

SCALE:

S001

DATE

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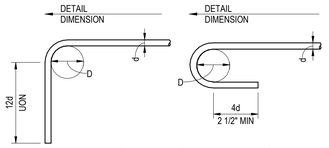
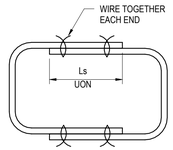


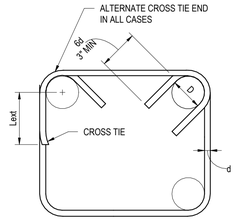
FOR DEFORMED BARS IN TENSION:
D = 6d FOR #3 THRU #8 BARS
D = 8d FOR #9 THRU #11 BARS
D = 10d FOR #14 AND #18 BARS

A STANDARD HOOK DETAILS

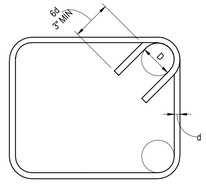
FOR STIRRUPS, TIES, AND HOOPS:
FOR #3 THRU #5 BARS: D = 4d, Lext = 6d, 3" MIN
FOR #6 THRU #8 BARS: D = 6d, Lext = 12d



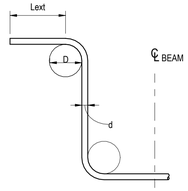
B TWO PIECE STRAIGHT BAR CLOSED STIRRUPS



C TWO-PIECE BEAM TIE



D BEAM AND COLUMN CLOSED TIE



E BEAM & JOIST STIRRUP

10 BAR BENDING DETAIL
NOT TO SCALE

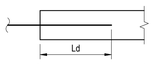
CONCRETE REINFORCING DEVELOPMENT & SPLICING LENGTHS (IN) FOR f'c = 2.5 KSI

CONDITION	CONCRETE TYPE	REINFORCING BAR SIZE																											
		#3			#4			#5			#6			#7			#8			#9			#10			#11		
		Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT > 12"																													
A	NWC	15	19	7	19	25	10	24	31	12	29	37	14	41	54	17	47	61	19	53	69	21	60	78	24	66	86	27
B	NWC	24	31	7	32	41	10	39	51	12	47	61	14	69	89	17	78	102	19	88	115	21	100	129	24	110	143	27
C	NWC	36	46	7	47	61	10	59	77	12	71	92	14	103	134	17	117	153	19	132	172	21	149	194	24	165	215	27
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT ≤ 12"																													
A	NWC	12	15	7	15	19	10	18	24	12	22	29	14	32	41	17	36	47	19	41	53	21	46	60	24	51	66	27
B	NWC	18	24	7	24	32	10	30	39	12	36	47	14	53	69	17	60	78	19	68	88	21	77	100	24	85	110	27
C	NWC	27	36	7	36	47	10	45	59	12	54	71	14	79	103	17	90	117	19	102	132	21	115	149	24	127	165	27

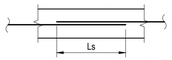
CONCRETE REINFORCING DEVELOPMENT & SPLICING LENGTHS (IN) FOR f'c = 3.0 KSI

CONDITION	CONCRETE TYPE	REINFORCING BAR SIZE																											
		#3			#4			#5			#6			#7			#8			#9			#10			#11		
		Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh	Ld	Ls	Ldh
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT > 12"																													
A	NWC	13	17	7	18	23	9	22	28	11	26	34	13	38	49	15	43	56	17	49	63	20	55	71	22	61	79	24
B	NWC	22	28	7	29	38	9	36	47	11	43	56	13	63	81	15	72	93	17	81	105	20	91	118	22	101	131	24
C	NWC	33	42	7	43	56	9	54	70	11	65	84	13	94	122	15	107	139	17	121	157	20	136	177	22	151	196	24
THICKNESS OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT ≤ 12"																													
A	NWC	12	13	7	14	18	9	17	22	11	20	26	13	29	38	15	33	43	17	38	49	20	42	55	22	47	61	24
B	NWC	17	22	7	22	29	9	28	36	11	33	43	13	48	63	15	55	72	17	62	81	20	70	91	22	78	101	24
C	NWC	25	33	7	33	43	9	42	54	11	50	65	13	72	94	15	83	107	17	93	121	20	105	136	22	116	151	24

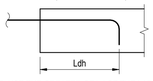
NOTES:
1. YIELD STRENGTH OF REINFORCEMENT = 60 KSI (TYPICAL)
2. UNCOATED OR ZINC-COATED (GALVANIZED) REINFORCEMENT
3. VALUES SHOWN FOR NORMAL WEIGHT CONCRETE ONLY. MULTIPLY BY 1.3 FOR LIGHTWEIGHT.
4. FOR GRADE 75 REINFORCEMENT MULPTIPL BY 1.25, FOR GRADE 80 REINFORCEMENT MULTIPLY BY 1.33.
5. MORE THAN 12" OF CONCRETE CAST BELOW THE BARS ARE MOST TOP BARS. LESS THAN 12" OF CONCRETE CAST BELOW HORIZONTAL BARS ARE ALL VERTICAL BARS AND MOST BOTTOM BARS.
6. Ld = DEVELOPMENT LENGTH (ACI 318-14 TABLE 25.4.2.2)



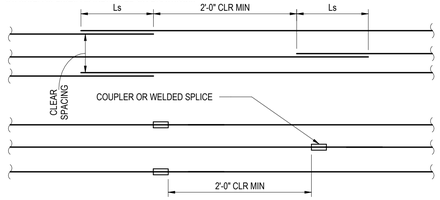
7. Ls = LAP SPLICE LENGTH (ACI 318-14 TABLE 25.5.2.1)



8. Ldh = HOOK DEVELOPMENT LENGTH (ACI 318-14 25.4.3)



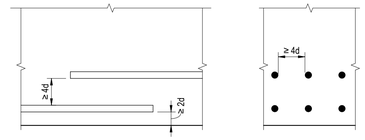
9. WHEN SPLICING BARS OF DIFFERENT SIZE, USE THE GREATER OF Ld OF THE LARGER BAR AND Ls OF THE SMALLER BAR.
10. STAGGER SPLICES AS INDICATED ON DRAWINGS.



7 REINFORCING DEVELOPMENT & SPLICE LENGTHS
NOT TO SCALE

CONDITION A

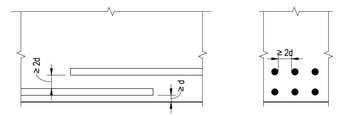
CLEAR SPACING OF BARS OR WIRES BEING DEVELOPED OR LAP SPLICED ≥ 4d AND CLEAR COVER ≥ 2d



ELEVATION SECTION

CONDITION B

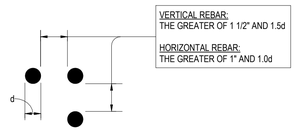
CLEAR SPACING OF BARS OR WIRES BEING DEVELOPED OR LAP SPLICED ≥ 2d AND CLEAR COVER ≥ d



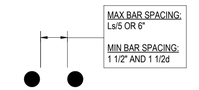
ELEVATION SECTION

CONDITION C

OTHER CASES - WHERE CLEAR SPACING OF BARS OR WIRES < 2d OR CLEAR COVER <d.



A MINIMUM REBAR SPACING



B BAR SPACING FOR BARS SPLICED WITH A NON-CONTACT LAP

4 BAR SPACING IN CONCRETE
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

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BAR SCALE

SHEET REVISION	DATE

ISSUE	DATE
ISSUE FOR BID	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

TYPICAL CONCRETE DETAILS

SCALE: 1 1/2" = 1'-0"

S010

DATE

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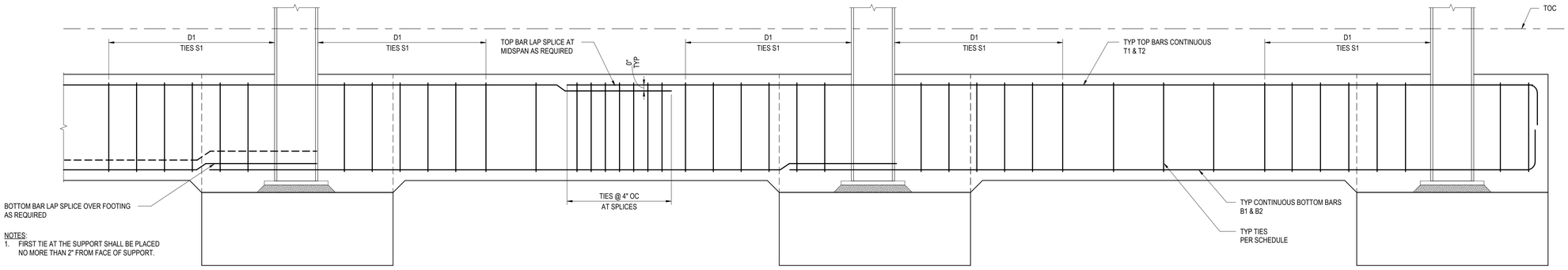
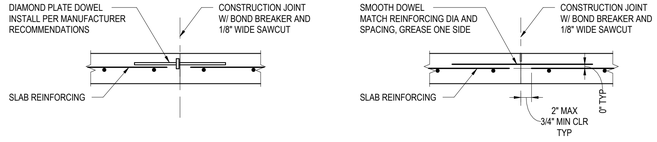


NOTES:
1. FIRST TIE AT THE SUPPORT SHALL BE PLACED NO MORE THAN 2" FROM FACE OF SUPPORT.

13 GRADE BEAM - REINFORCING ELEVATION
NOT TO SCALE



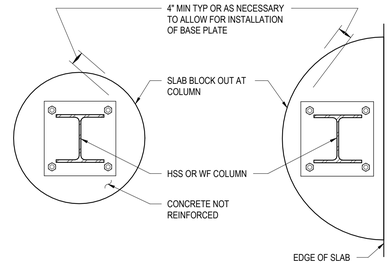
A CONSTRUCTION JOINT SLAB ON GRADE ≥ 5" THICK

B CONSTRUCTION JOINT SLAB ON GRADE < 5" THICK

NOTES:
1. EITHER CONTROL OR CONSTRUCTION JOINTS SHALL BE LOCATED NO FURTHER THAN 36 x SLAB THICKNESS UNLESS A SMALLER SPACING IS INDICATED ON DRAWINGS. ASPECT RATIO OF ENCLOSED AREA SHALL NOT EXCEED 1.5, SUBMIT LAYOUT FOR APPROVAL. LOCATE JOINTS ON COLUMN LINES AND UNDER PARTITIONS WHEREVER POSSIBLE. MAXIMUM SLAB AREA CONTROLLED BY JOINTING IS 400 SQ FT SAWCUT SHALL BE MADE AS SOON AS POSSIBLE AFTER SLAB FINISHING AS MAY SAFELY BE DONE WITHOUT DISLODGING AGGREGATE OR BREAKING EDGES, FILL SAWCUT JOINT WITH SEALANT AFTER SLAB HAS CURED.

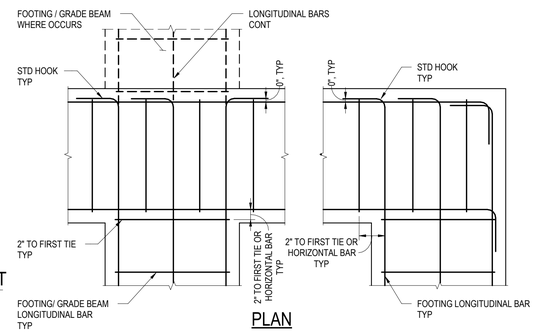
JOINT LAYOUT

10 SLAB ON GRADE CONSTRUCTION JOINT AND BLOCKOUT PREPARATION
NOT TO SCALE



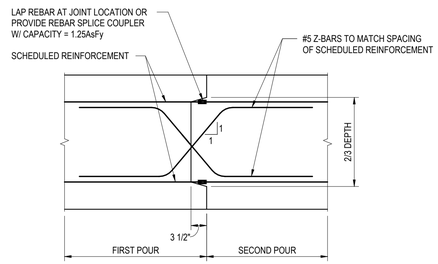
C PLAN-SLAB BLOCKOUT AT COLUMN

D PLAN-SLAB BLOCKOUT AT EDGE COLUMN



PLAN

2 FOOTING/GRADE BEAM REINFORCING AT CORNERS AND INTERSECTIONS
NOT TO SCALE



NOTES:
1. LOCATION OF PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR APPROVAL.
2. IN GENERAL JOINTS SHALL BE WITHIN THE MIDDLE THIRD OF THE SPAN.

3 GRADE BEAM - CONSTRUCTION JOINT
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

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TYPICAL CONCRETE DETAILS

SCALE: As indicated

S011

DATE

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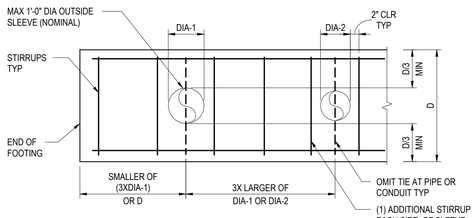
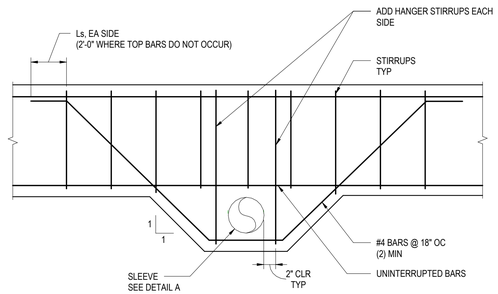
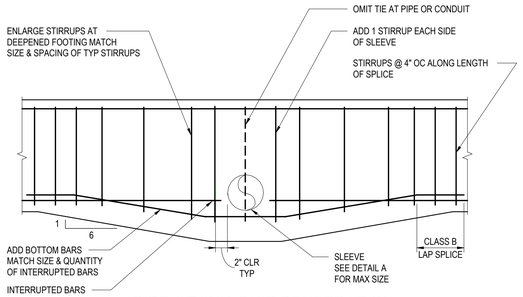


A PIPE OR CONDUIT PENETRATION THROUGH MIDDLE THIRD



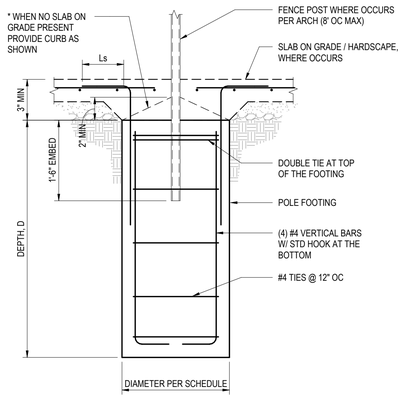
C PIPE OR CONDUIT BELOW BOTTOM REINFORCEMENT



B PIPE OR CONDUIT PENETRATION BELOW MIDDLE THIRD

NOTES:
1. DO NOT CUT REINFORCING AT DETAIL A OR C, ONLY CUT INTERRUPTED REINFORCING AT DETAIL B.
2. PROVIDE MINIMUM 2" CLEAR BETWEEN SLEEVE AND REINFORCING.
3. SEE DETAIL 1 ON THIS SHEET FOR SLEEVE-TO-PIPE/CONDUIT CLEARANCE & INFO NOT NOTED.
4. CAULK SEAL GAP AT SLEEVE-TO-PIPE/CONDUIT INTERFACE ON EXTERIOR SIDE OF FOOTING.
5. IF PIPE OR CONDUIT PENETRATION OCCURS AT EITHER TOP OR BOTTOM REBAR SPLICE LOCATION PROVIDE (2) ADDITIONAL SHEAR STIRRUPS FOR A TOTAL OF 4 SHEAR STIRRUPS ON EACH SIDE OF PENETRATION.
6. IF PIPE OR CONDUIT SLEEVE IS ASTM A53 SCHEDULE 40 OR GREATER PIPE, ADDITIONAL STIRRUPS MAY BE ELIMINATED. SLEEVE SHALL BE GALVANIZED.

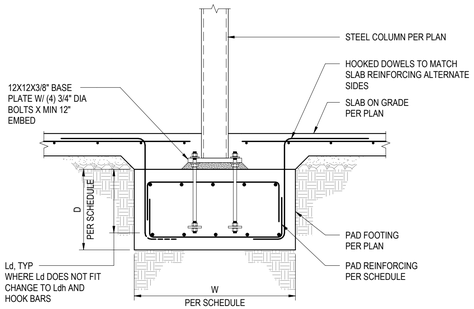
14 CONTINUOUS FOOTINGS - PENETRATIONS
NOT TO SCALE



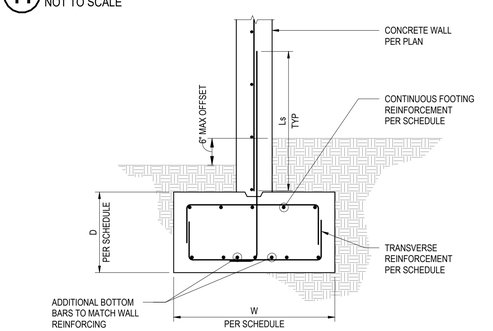
POST HEIGHT	DIAMETER	MIN DEPTH 'D'	
		SLAB ON GRADE PRESENT	* NO SLAB ON GRADE
8'-0"	1'-6"	2'-0"	3'-0"

* WHEN NO SLAB ON GRADE PRESENT PROVIDE CURB AS SHOWN

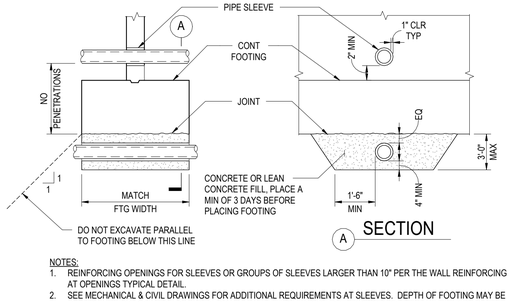
16 FENCE POST FOOTING
NOT TO SCALE



11 STEEL COLUMN PAD FOOTING
NOT TO SCALE

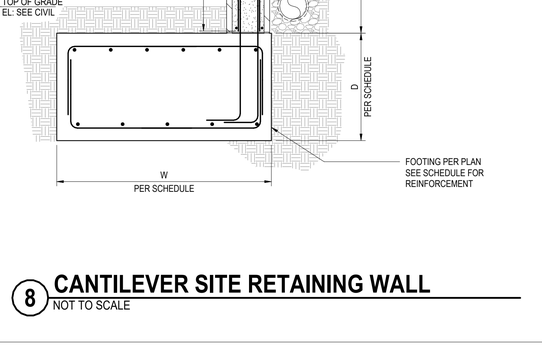


12 CONCRETE WALL CONTINUOUS FOOTING
NOT TO SCALE



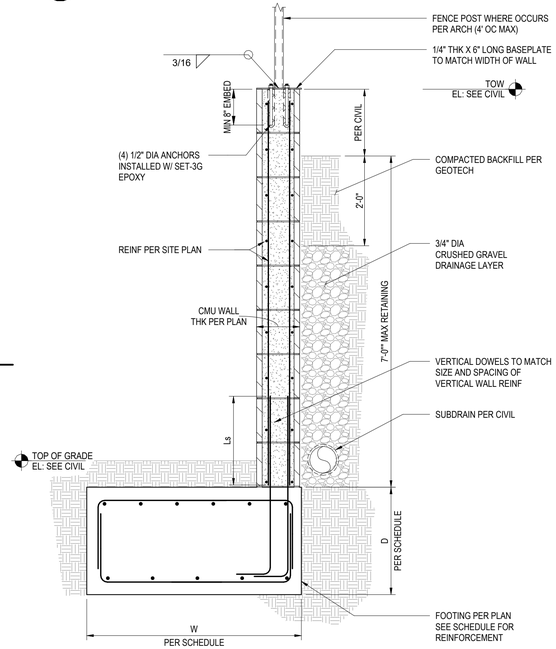
NOTES:
1. REINFORCING OPENINGS FOR SLEEVES OR GROUPS OF SLEEVES LARGER THAN 10" PER THE WALL REINFORCING AT OPENINGS TYPICAL DETAIL.
2. SEE MECHANICAL & CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AT SLEEVES. DEPTH OF FOOTING MAY BE DETERMINED BY LOCATION OF PIPES. CONSULT WITH MECHANICAL CONTRACTOR TO DETERMINE EXACT DEPTH.

5 WALL & FOUNDATION - PENETRATIONS
NOT TO SCALE

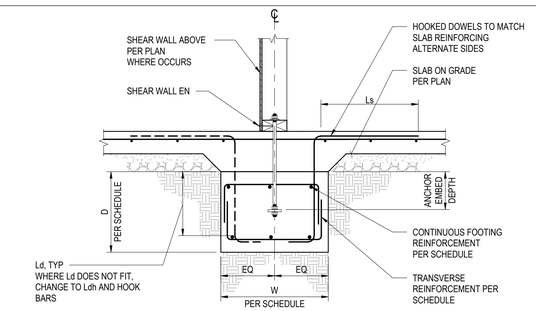


NOTES:
1. SEE FOOTING SCHEDULE FOR FOOTING DIMENSIONS AND REBAR SIZE AND SPACING.
2. PROVIDE TIES PER SCHEDULE THROUGH FOOTING STEPS AS SHOWN.

6 STEPS IN CONTINUOUS FOOTING
NOT TO SCALE

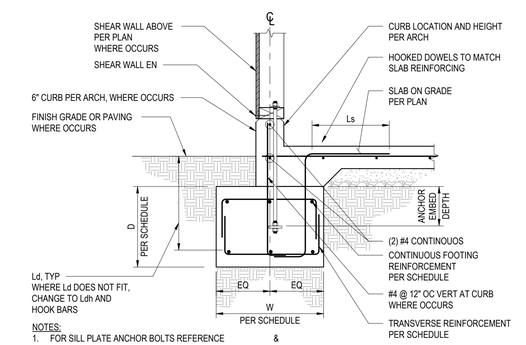


8 CANTILEVER SITE RETAINING WALL
NOT TO SCALE



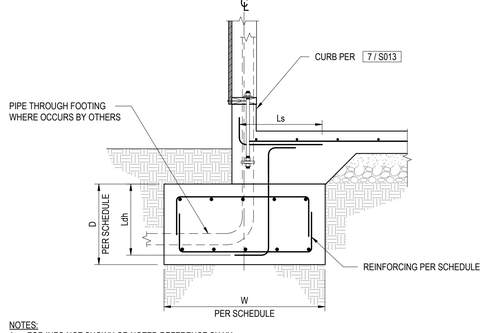
NOTES:
1. FOR SILL PLATE ANCHOR BOLTS REFERENCE &

1 INTERIOR CONTINUOUS FOOTING
NOT TO SCALE



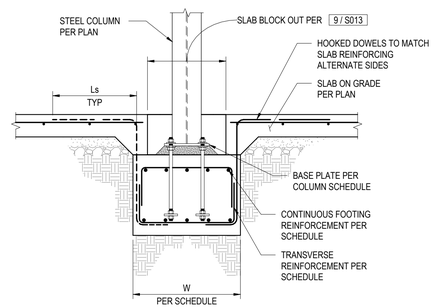
NOTES:
1. FOR SILL PLATE ANCHOR BOLTS REFERENCE &

2 EXTERIOR CONTINUOUS FOOTING
NOT TO SCALE



NOTES:
1. FOR INFO NOT SHOWN OR NOTED REFERENCE SX.XX

3 PIPE THROUGH CURB DETAIL
NOT TO SCALE



4 STEEL COLUMN IN CONTINUOUS FOOTING
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

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75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

TYPICAL CONCRETE DETAILS

SCALE: As indicated

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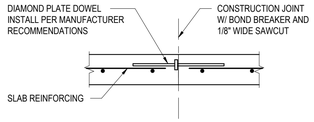
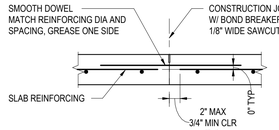


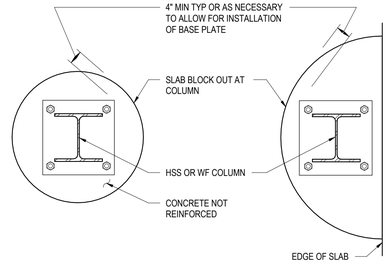
A CONSTRUCTION JOINT
SLAB ON GRADE ≥ 5" THICK



B CONSTRUCTION JOINT
SLAB ON GRADE < 5" THICK

NOTES:
1. EITHER CONTROL OR CONSTRUCTION JOINTS SHALL BE LOCATED NO FURTHER THAN 36 x SLAB THICKNESS UNLESS A SMALLER SPACING IS INDICATED ON DRAWINGS. ASPECT RATIO OF ENCLOSED AREA SHALL NOT EXCEED 1.5. SUBMIT LAYOUT FOR APPROVAL. LOCATE JOINTS ON COLUMN LINES AND UNDER PARTITIONS WHEREVER POSSIBLE. MAXIMUM SLAB AREA CONTROLLED BY JOINTING IS 400 SQ FT SAWCUT SHALL BE MADE AS SOON AS POSSIBLE AFTER SLAB FINISHING AS MAY SAFELY BE DONE WITHOUT DISLODGING AGGREGATE OR BREAKING EDGES, FILL SAWCUT JOINT WITH SEALANT AFTER SLAB HAS CURED.

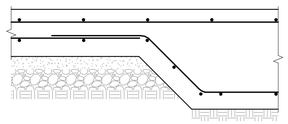
JOINT LAYOUT



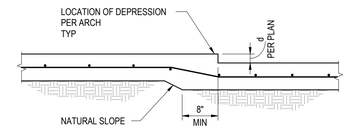
C PLAN-SLAB BLOCKOUT
AT COLUMN

D PLAN-SLAB BLOCKOUT
AT EDGE COLUMN

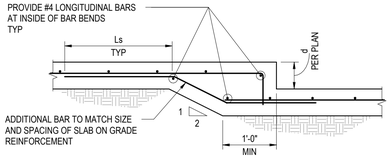
9 SLAB ON GRADE CONSTRUCTION JOINT AND BLOCKOUT PREPARATION
NOT TO SCALE



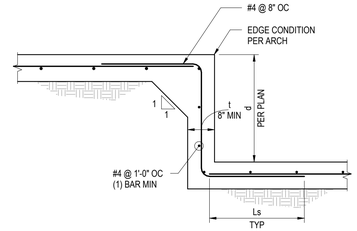
NOTES:
1. SEE TYPICAL SLAB ON GRADE DETAIL FOR INFORMATION NOT SHOWN.



A 'd' ≤ 3"



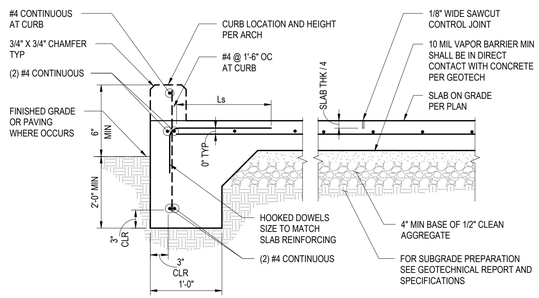
B 3" < 'd' ≤ 12"



C 12" < 'd' ≤ 42"

NOTES:
1. COORDINATE LOCATION, DEPTH, EXTENT, AND EDGE CONDITIONS OF DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.

6 SLAB ON GRADE TRANSITION
NOT TO SCALE

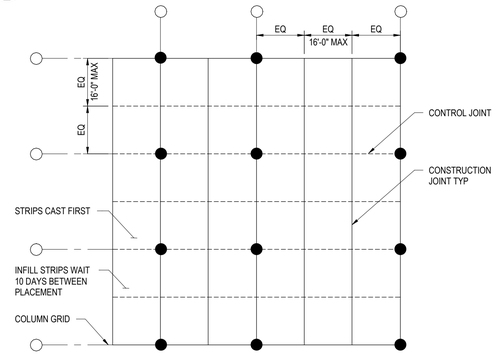


A EDGE OF SLAB ON GRADE

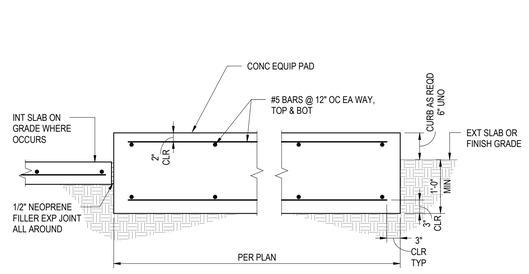
B SLAB-ON-GRADE

7 SLAB ON GRADE & CONTROL JOINT
NOT TO SCALE

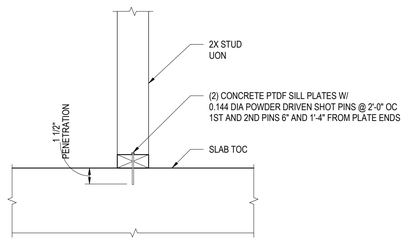
2 SLAB ON GRADE DEPRESSION
NOT TO SCALE



3 CONSTRUCTION JOINT AT SLAB ON GRADE
NOT TO SCALE



8 ISOLATED CONCRETE EQUIPMENT PAD
NOT TO SCALE



NOTES:
1. SHOT PINS SHALL BE MANUFACTURED BY RAMSET OR EQUAL (SEE ICBO REPORT NO.1639).

4 NON-BEARING WALL TO CONCRETE SLAB CONNECTION DETAIL
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

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TYPICAL CONCRETE DETAILS

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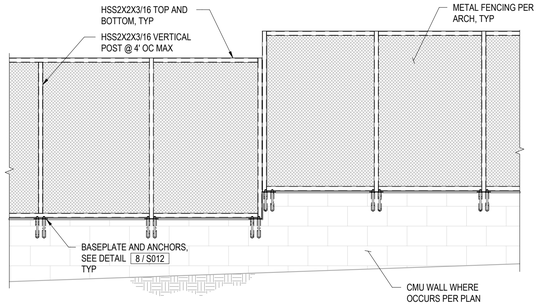
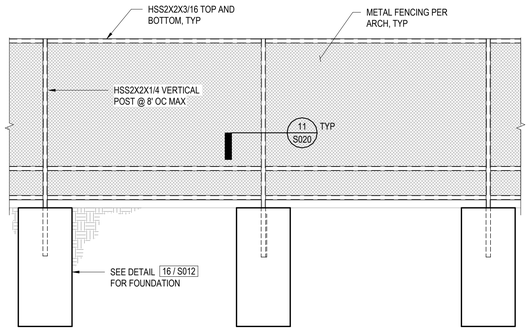
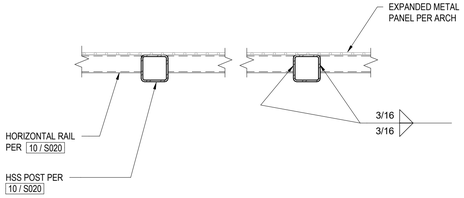


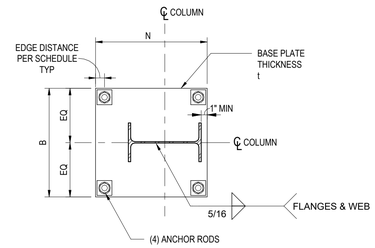
9 (N) EXPANDED METAL FENCING ON (N) CMU WALL
NOT TO SCALE



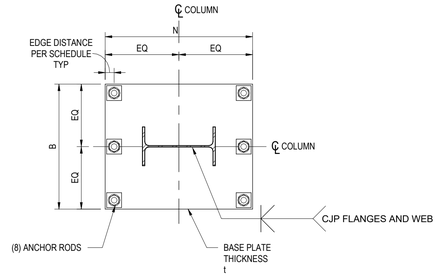
10 (N) EXPANDED METAL FENCING
NOT TO SCALE



11 METAL FENCING POST AND RAIL PLAN DETAIL
NOT TO SCALE



A WF (GRAVITY)

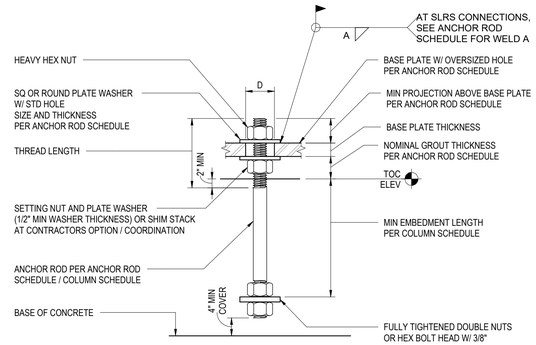


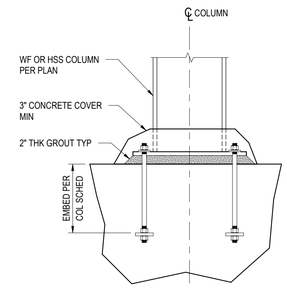
B WF (LATERAL) (6) ANCHORS

6 STEEL COLUMN BASE PLATES
NOT TO SCALE

ANCHOR ROD SCHEDULE								
MARK	ANCHOR ROD DIA	MAX ANCHOR ROD HOLE DIA D'	MIN WASHER SIZE	MIN WASHER THICKNESS	MIN PROJECTION ABOVE BASE PLATE	NOMINAL GROUT THICKNESS	WELD[5] A	REMARKS
A	3/4"	1 5/16"	2"	1/4"	3"	2"	1/4	
B	7/8"	1 9/16"	2 1/2"	5/16"	3 1/2"	2"	1/4	
C	1"	1 13/16"	3"	3/8"	3 1/2"	2"	1/4	
D	1 1/4"	2 1/16"	3"	1/2"	4"	2"	3/8	
E	1 1/2"	2 5/16"	3 1/2"	1/2"	4"	2"	3/8	
F	1 3/4"	2 3/4"	4"	5/8"	5"	2"	1/2	
G	2"	3 1/4"	5"	3/4"	5"	2"	1/2	
H	2 1/2"	3 3/4"	5 1/2"	7/8"	5 1/2"	2"	3/4	

NOTES:
1. WHERE WELD A IS NOT SHOWN, TACK-WELD AS REQUIRED FOR ERECTION.
2. D' = RECOMENDED MAXIMUM ANCHOR ROD HOLE DIAMETER PER AISC TABLE 14-2.
3. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.
4. CLEARANCE MUST BE CONSIDERED WHEN CHOOSING AN APPROPRIATE ANCHOR ROD HOLE LOCATION. NOTING EFFECTS SUCH AS POSITION OF THE ROD IN THE HOLE WITH RESPECT TO THE COLUMN, WELD SIZE, AND OTHER INTERFERENCES.
5. WHEN BASE PLATES ARE LESS THAN 1 1/4" THICK, PUNCHING OF HOLES MAY BE AN ECONOMICAL OPTION. IN THIS CASE, 3/4" ANCHOR RODS AND 1 1/16" DIAMETER PUNCHED HOLES MAY BE USED WITH ASTM F844 (USS STANDARD) WASHER IN PLACE OF FABRICATED PLATE WASHERS.
6. WELDING OF WASHER IS ONLY REQUIRED AT SLRS (STEEL LATERAL RESISITING SYSTEM) MEMBERS. AS AN ALTERNATE, TO WELD WASHERS AT SLRS MEMBERS, PROVIDE STANDARD SIZE HOLE DIMENSIONS WITH UNWELDED WASHERS (SEE AISC TABLE J3.3).





TYPICAL EDGE DISTANCE SCHEDULE	
ANCHOR ROD DIA	EDGE DISTANCE
3/4"	1 1/2"
7/8"	2"
1"	2 1/4"
1 1/4"	2 3/8"
1 1/2"	2 5/8"
1 3/4"	3"
2"	3 1/2"
2 1/2"	4"

NOTES:
1. BASE PLATE SIZE, THICKNESS AND ANCHOR RODS PER COLUMN SCHEDULE.
2. ANCHOR RODS, OVERSIZED HOLE AND WASHER REQUIREMENTS PER TYPICAL ANCHOR ROD DETAIL.

7 ANCHOR ROD DETAIL AND SCHEDULE
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

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TYPICAL STEEL DETAILS

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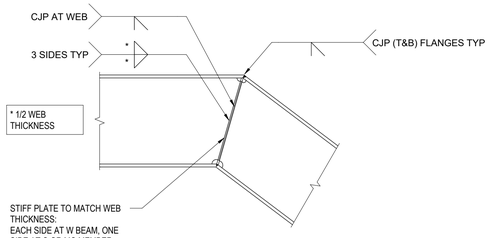
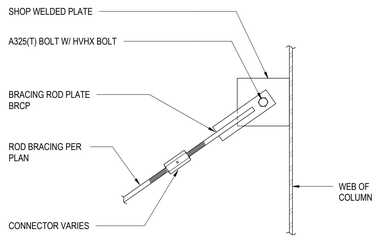


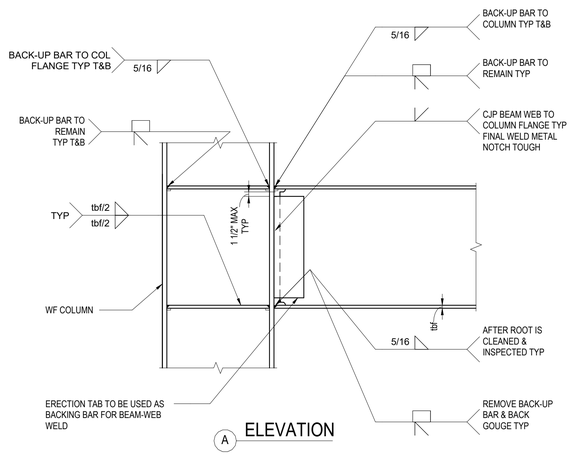


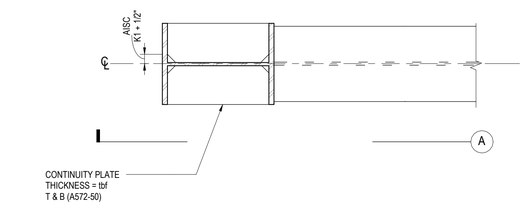
CABLE/ROD W/ BRCP

DETAIL INDICATED AS UPPER SHOP WELDED PLATE, SIMILAR AT LOWER SHOP WELDED CONNECTION

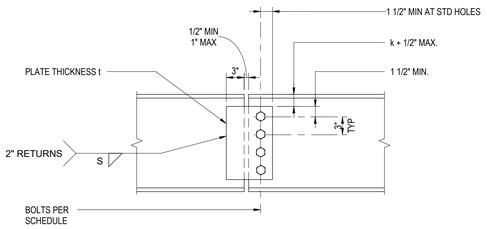
DEPTH OR SIZE OF SMALLER BEAM	ONE ROW OF BOLTS			TWO ROWS OF BOLTS		
	NO OF BOLTS, A325N UON (2)	SHEAR PLATE	WELD (1) SIZE S	NO OF BOLTS PER ROW, 7/8" DIA A325SC UON (2)	SHEAR PLATE	WELD (1) SIZE S
8"	(2) 7/8" DIA	3/8"	1/4"	2	5/8"	7/16"
9", 10"	(2) 7/8" DIA	3/8"	1/4"	2	5/8"	7/16"
12", 14", C12, MC12	(3) 7/8" DIA	3/8"	1/4"	3	5/8"	7/16"
16"	(4) 7/8" DIA	3/8"	1/4"	4	5/8"	7/16"
18"	(4) 7/8" DIA	3/8"	1/4"	4	5/8"	7/16"
21"	(5) 7/8" DIA	3/8"	1/4"	5	5/8"	7/16"
24"	(6) 7/8" DIA	3/8"	1/4"	6	5/8"	7/16"
27"	(7) 7/8" DIA	1/2"	5/16"	7	5/8"	7/16"
30"	(8) 7/8" DIA	1/2"	5/16"	8	5/8"	7/16"
33" AND LARGER	(9) 7/8" DIA	1/2"	5/16"	9	5/8"	7/16"

NOTES:
1. USE LARGER WELDS OR COMPLETE PENETRATION WELDS AT ALL SKEWED CONNECTIONS PER TYP DETAILS.
2. MARKS [2] ON PLANS INDICATES 2 ROWS OF BOLTS. EACH ROW TO HAVE THE NUMBER OF BOLTS IN THE TABLE ABOVE. SPACE ROWS AT 3" OC.
3. MARKS [F] ON PLANS INDICATES FLANGE BRACE PER
4. MARKS [T] ON PLANS INDICATES FULL PENETRATION WELD PER
5. DEPTH OR SIZE CORRESPONDS TO THE SMALLEST BEAM, SEE TYPICAL DETAILS.
6. PROVIDE SLIP CRITICAL CONNECTIONS AT ALL SLRS FRAMING.

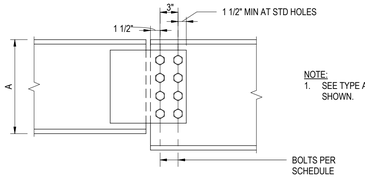




13 TYPICAL BEAM MOMENT SPLICE CONNECTION
NOT TO SCALE



A SAME DEPTH BEAMS



B UNEQUAL DEPTH BEAMS

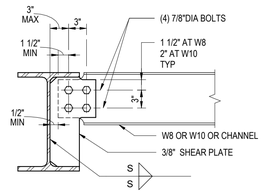
NOTE:
1. SEE TYPE A FOR INFO NOT SHOWN.

NOTE:
1. FOR WELD, BOLTS, AND SHEAR PLATE SEE BEAM CONNECTION SCHEDULE (FOR LARGER BEAM).

9 CABLE/ROD BRACING CONNECTIONS
NOT TO SCALE

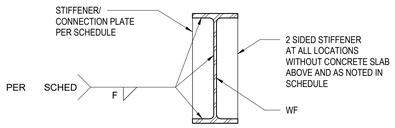
2 OMF BEAM/COLUMN CONNECTION
NOT TO SCALE

14 BOLTED BEAM SHEAR SPLICE
NOT TO SCALE



NOTES:
1. PROVIDE FULL DEPTH BEAM TO BEAM CONNECTION AT ALL LOCATIONS WHERE NO BEAM IS PRESENT WITHIN 2'-0" ON OPPOSITE SIDE OF MEMBER WHERE NOTES ON PLANS AS
2. SEE BEAM CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.

15 FULL DEPTH CONN. - W8X, W10X AND C
NOT TO SCALE

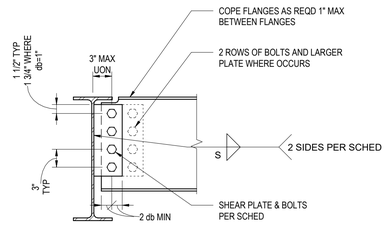


LOCATION	PLATE SIZE	WELD SIZE F
W12 & SMALLER	1/4"	1/8"
W18 THRU W14	3/8"	3/16"
W36 THRU W21	1/2"	1/4"
STAIR STRINGER CONNECTIONS	3/8"	3/16"

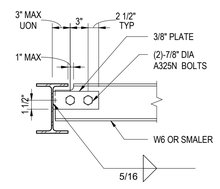
NOTES:
1. USE THIS DETAIL WHERE PLATES OR STIFFENERS ARE SHOWN BUT NOT DETAILED.
2. WELD TO BE MAX OF AWS MIN AND SCHEDULE SIZE.

11 STIFFENER CONNECTION PLATE
NOT TO SCALE

6 BEAM CONNECTION SCHEDULE
NOT TO SCALE

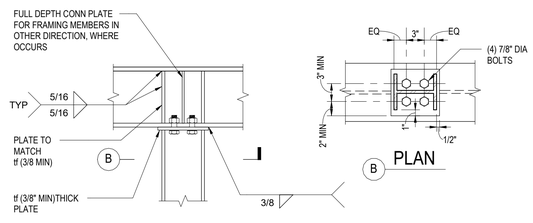


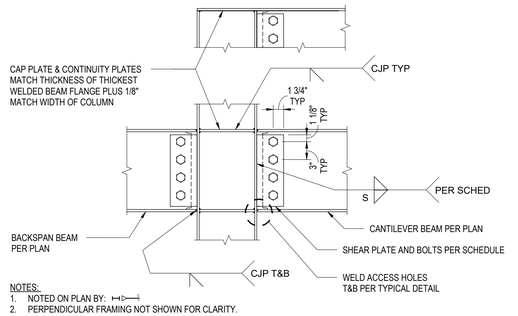
A SHALLOW SUPPORTED BEAM



B SHALLOW (d< 8") SUPPORTED BEAM

7 BEAM TO BEAM CONNECTION
NOT TO SCALE





NOTES:
1. NOTED ON PLAN BY:
2. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.

8 NON-FRAME TRANSFER GIRDER (WF)
NOT TO SCALE

4 BEAM TO WX COLUMN GRAVITY MOMENT CONNECTION
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

700 WARREN LN
INGLEWOOD, CA 90302

VPF 250303

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BAR SCALE

SHEET REVISION	DATE

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ISSUE FOR BID	02.12.2026
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75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

TYPICAL STEEL DETAILS

SCALE: As indicated

S021

DATE

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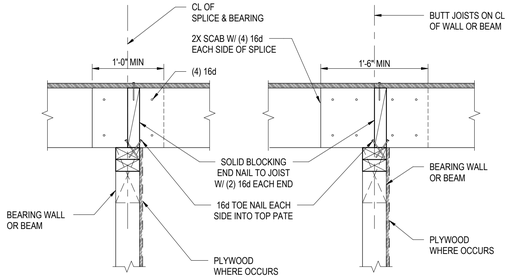
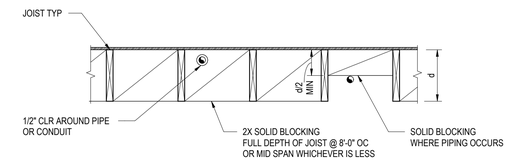


A JOIST LAP

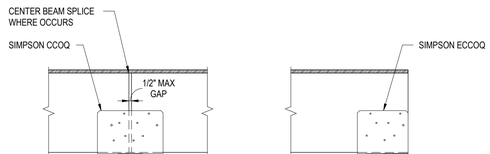
B JOIST BUTT

NOTE:
1. DETAIL SIMILAR FOR DOUBLED UP MEMBERS.

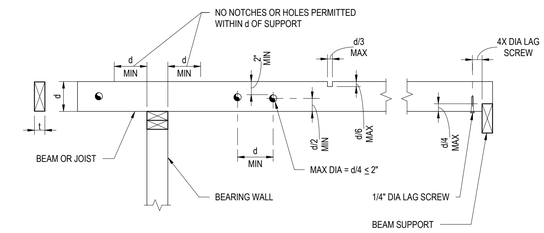
5 JOIST SPLICE AT BEARING WALLS OR BEAMS
NOT TO SCALE



1 WOOD JOIST BLOCKING
NOT TO SCALE



6 STEEL COLUMN TO WOOD BEAMS
NOT TO SCALE



NOTES:
1. HOLES & NOTCHES NOT PERMITTED FOR d=5 1/2" OR LESS.
2. NOTCHES NOT PERMITTED WITHIN MIDDLE THIRD OF SPAN.
3. NOTCHES NOT PERMITTED IN BOTTOM OF MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR WRITTEN APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE.

2 HOLES AND NOTCHES IN BEAMS AND JOISTS
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

700 WARREN LN
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TYPICAL WOOD DETAILS

SCALE: As indicated

S030

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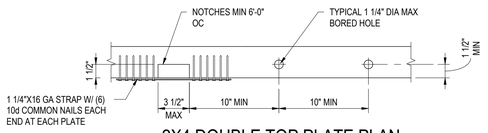
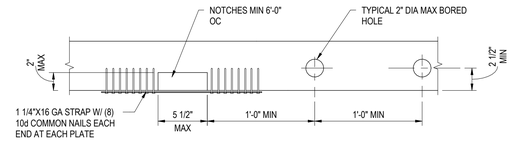
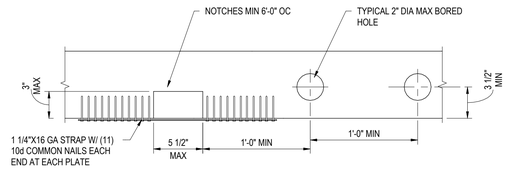


C 2X4 DOUBLE TOP PLATE PLAN
2X4 OR 3X4 SILL PLATE SIMILAR

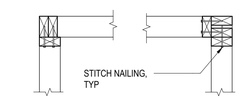


B 2X6 DOUBLE TOP PLATE PLAN
2X6 OR 3X6 SILL PLATE SIMILAR

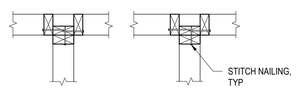


A 2X8 DOUBLE TOP PLATE PLAN
2X8 OR 3X8 SILL PLATE SIMILAR

14 PENETRATIONS IN TOP OR BOTTOM PLATE
NOT TO SCALE

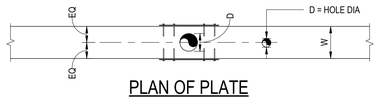


A PLAN AT CORNERS

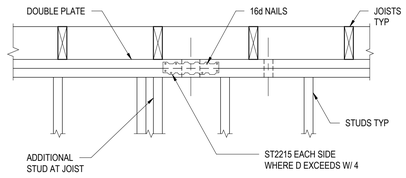


B PLAN AT INTERSECTIONS

15 STUD WALL CORNERS AND INTERSECTIONS
NOT TO SCALE

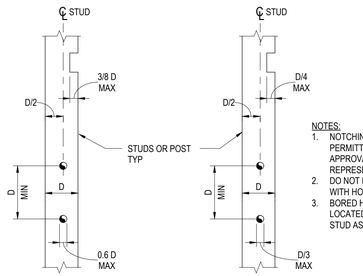


PLAN OF PLATE



ELEVATION OF PLATE

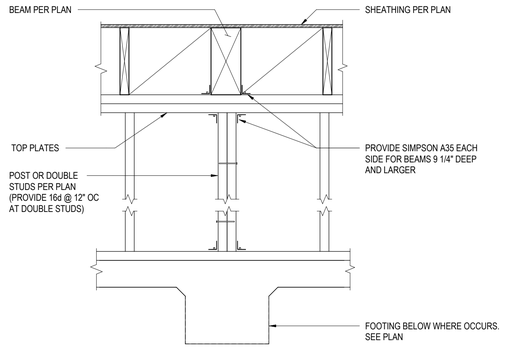
9 PENETRATIONS IN TOP OR BOTTOM PLATE (ALTERNATE)
NOT TO SCALE



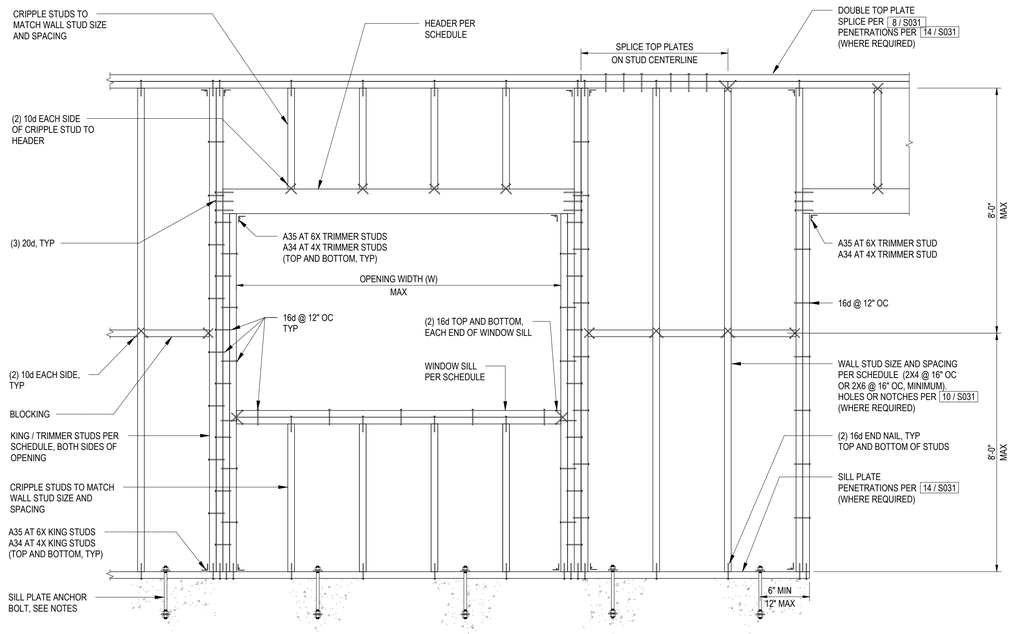
A NON-LOAD BEARING
B LOAD BEARING

NOTES:
1. NOTCHING OF MEMBER IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE.
2. DO NOT PLACE HOLES IN MEMBERS WITH HOLDOWN ANCHORS.
3. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A NOTCH.

10 HOLES AND NOTCHES IN STUDS OR POSTS
NOT TO SCALE



11 FLUSH BEAM PERPENDICULAR TO STUD WALL
NOT TO SCALE



WALL STUD SCHEDULE (UON PER PLAN)		
LEVEL	STUD DEPTH	STUD REQUIREMENT
2ND FLOOR	5 1/2"	2X6 @ 16" OC
3RD FLOOR	5 1/2"	2X6 @ 16" OC
4TH FLOOR	5 1/2"	2X6 @ 16" OC
5TH FLOOR	5 1/2"	2X6 @ 16" OC

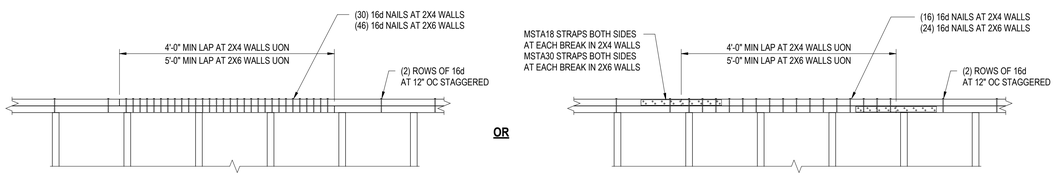
NOTES:
1. SILL PLATE ANCHOR BOLT TO BE 5/8" DIA WITH 2X2X3/16 PLATE WASHER AND 0'-8" MIN EMBED AT 4'-0" OC, UON.
2. PROVIDE MINIMUM (2) ANCHOR BOLTS PER SILL PLATE.
3. AT NON BEARING WALLS, ACCEPTABLE TO REPLACE ANCHOR BOLTS WITH SIMPSON PDPW-300 @ 24"OC (ICC-ESR 2138).

HEADER SCHEDULE (UON PER PLAN)						
OPENING WIDTH (W)	LOAD BEARING HEADER				NON-LOAD BEARING HEADER	
	HEADER SIZE AT FLOOR		HEADER SIZE AT ROOF		HEADER SIZE AT FLOOR AND ROOF	
	4" WALL	6" WALL	4" WALL	6" WALL	4" WALL	6" WALL
≤ 4'-0"	4X8	6X6	4X6	6X6	4X4	4X6 FLAT
≤ 6'-0"	4X10	6X8	4X8	6X6	4X4	6X6
≤ 8'-0"	LVL3.5X11.875	6X10	4X10	6X8	4X6	6X6
> 8'-0"	PER PLAN	PER PLAN	PER PLAN	PER PLAN	PER PLAN	PER PLAN

WINDOW SILL SCHEDULE	
OPENING WIDTH (W)	SILL MEMBER
≤ 4'-0"	2X
≤ 8'-0"	(2) 2X
≤ 12'-0"	4X
≤ 15'-0"	6X

KING / TRIMMER STUD SCHEDULE (UON PER PLAN)		
OPENING WIDTH (W)	KING STUD(S)	TRIMMER STUD(S)
≤ 4'-0"	2X OR POST	2X
≤ 8'-0"	(2) 2X OR POST	(2) 2X
> 8'-0"	(3) 2X	(3) 2X OR POST

7 STUD WALL FRAMING ELEVATION
NOT TO SCALE



8 TOP PLATE SPLICE
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

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60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

TYPICAL WOOD DETAILS

SCALE: As indicated

S031

DATE

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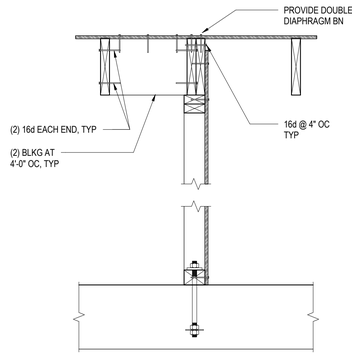
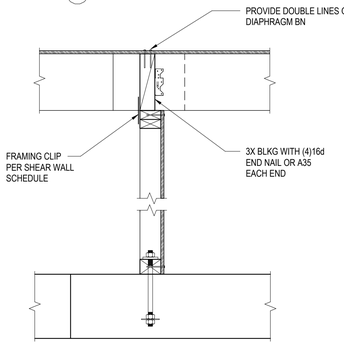
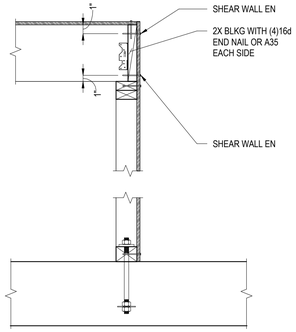


A JOIST PARALLEL



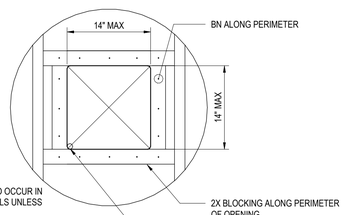
B JOIST PERPENDICULAR



NOTES:
1. DETAIL SIMILAR AT DOUBLE SIDED SHEATHING.
2. SEE SCHEDULES FOR FASTENER INFORMATION.

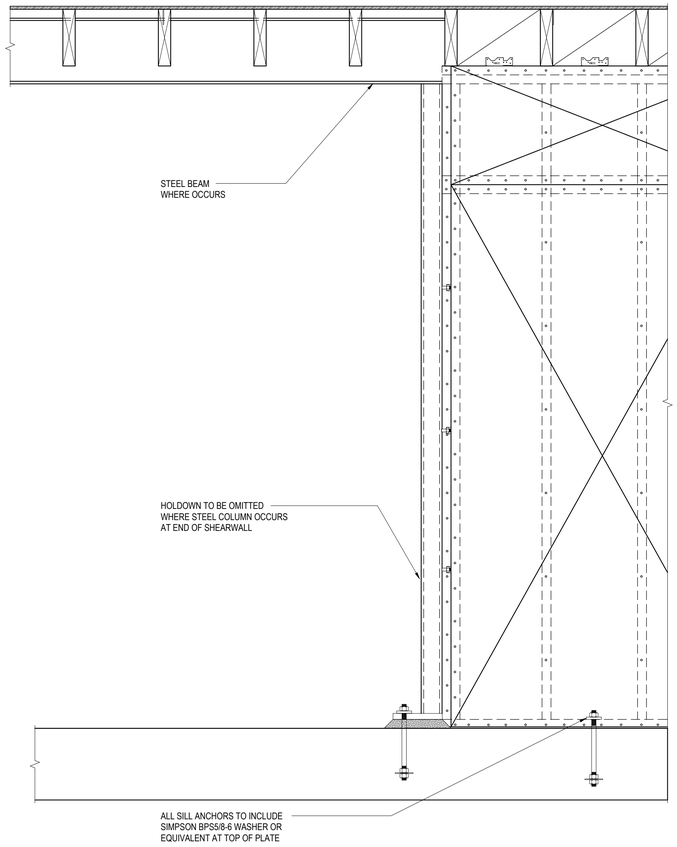
C JOIST PERPENDICULAR AT EXTERIOR

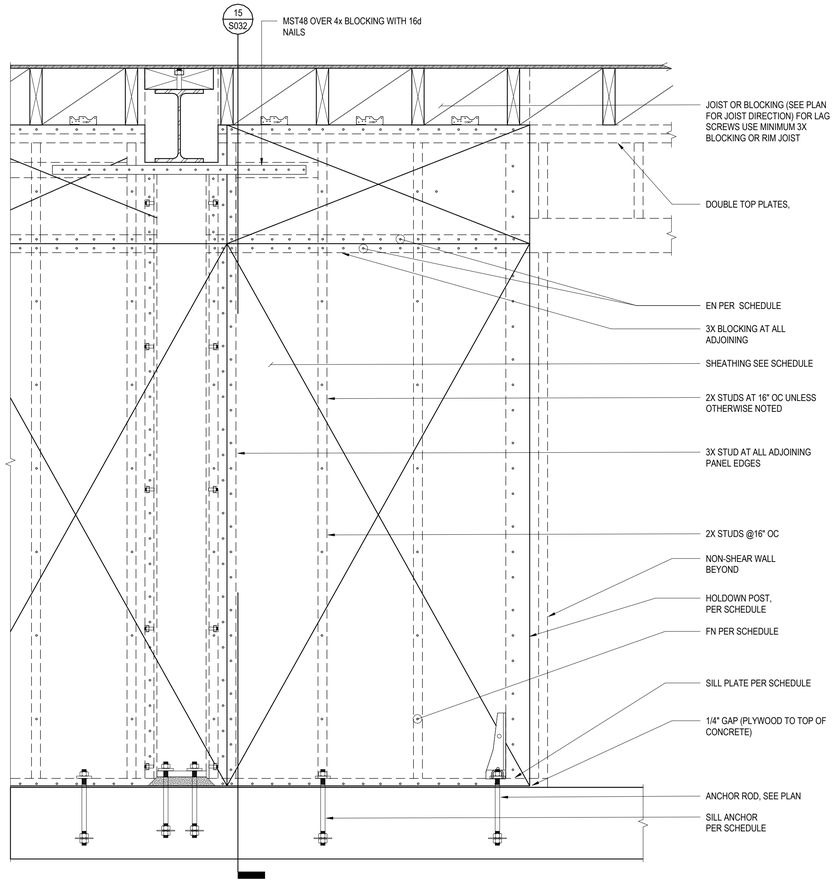
15 SHEAR WALL SECTION
NOT TO SCALE



NOTE:
1. NO OPENINGS OVER ONE STUD WIDTH TO OCCUR IN WOOD STRUCTURAL PANEL SHEAR PANELS UNLESS DETAILED ON STRUCTURAL ELEVATIONS.
2. THERE SHALL BE NO OPENINGS/PENETRATIONS AT SHEAR PANEL EDGE. GENERAL CONTRACTOR TO COORDINATE, TYP UON ON PLAN.

16 SMALL MECHANICAL OPENINGS IN SHEAR WALLS
NOT TO SCALE





NOTES:
1. REFER TO ROUGH CARPENTRY NOTES FOR ADDITIONAL FRAMING REQUIREMENTS.
2. REFER TO PLAN & SHEAR WALL LEGEND FOR SHEAR WALL TYPE.
3. PLYWOOD FACE GRAIN TO BE VERTICAL.
4. SHEATHING FOR SINGLE-SIDED SHEAR WALLS MAY BE PLACED ON EITHER FACE OF WALL UON. PROVIDE MINIMUM LENGTH SPECIFIED ON PLAN AND COORDINATE WITH ARCHITECTURAL FINISHES.
5. NAILING SHALL BE 10d COMMON WITH 1 1/2" MINIMUM PENETRATION. NAILING SHALL BE 1/2" DISTANCE FROM PANEL EDGE AND 3/8" DISTANCE FROM EDGE OF CONNECTING MEMBERS.
6. PLYWOOD JOINT AND SILL NAILING SHALL BE STAGGERED IN ALL CASES.
7. WHEN SHEATHING IS APPLIED ON BOTH SIDES OF STUDS, NAILS ON EACH SIDE OF SHEATHING JOINT, SILL PLATES, HOLDOWN POSTS AND TOP PLATES SHALL BE STAGGERED.
8. PLYWOOD PANELS SHALL ABUT ALONG CENTERLINES OF FRAMING MEMBERS. THE MINIMUM PLYWOOD DIMENSION FOR USE SHALL BE 12".
9. A35 OR LTP4 SHEAR TRANSFER SHALL BE CONNECTING TO PLATE AND BLOCKING, JOIST OR RAFTER.
10. SILL PLATES ON MASONRY OR CONCRETE SHALL BE PRESSURE TREATED AND 3X MIN.
11. USE OF EQUIVALENT SIMPSON PAB ANCHORS AS ALTERNATIVE FOR SILL ANCHORS IS ACCEPTABLE.
12. ANCHOR BOLTS SHALL HAVE 3"X3"X0.229" PLATE WASHERS OR SIMPSON BPS-5/8-6, MINIMUM.
13. SEE PLAN AND TYPICAL DETAILS FOR SPECIFIC SHEAR CONNECTION DETAILS.
14. AT ALL EXTERIOR AND INTERIOR BEARING WALLS NOT NOTED AS SHEAR WALLS, BLOCKING SHALL BE PROVIDED BETWEEN JOISTS AND/OR RAFTERS WITH A35, LTP4, OR LTP5 TO TOP PLATES AT 16"OC AT FLOOR AND 24"OC AT ROOF CONDITIONS UON.

SHEAR WALL SCHEDULE

SHEAR WALL TYPE	PLYWOOD PANEL			NAILING SIZE	MIN SILL THK	SILL PLATE SCREWS (SIMPSON SDS OR SDWS 1/4" x 4 1/2" LONG) *	SILL PLATE ANCHOR TO CONCRETE SLAB	ALLOW SHEAR	A35 OR LPT5 FRAMING CLIPS
	APA RATED PLYWOOD			(BN) (EN) (FN)					
	THK	TYPE				ROWS & SPACING	SIZE & SPACING	PLF	SPACING & SIDE
A	15/32"	STRUCT I	ONE SIDE	10d@ 6",6",12"	3X	1 ROW @ 12" OC	5/8" DIA X 8" EMBED @ 32"OC	312	AT 12"OC ONE SIDE
B	15/32"	STRUCT I	ONE SIDE	10d@ 4",4",12"	3X	1 ROW @ 8" OC	5/8" DIA X 8" EMBED @ 32"OC	469	AT 12"OC ONE SIDE
C	15/32"	STRUCT I	ONE SIDE	10d@ 3", 3",12"	3X	1 ROW @ 6" OC	5/8" DIA X 8" EMBED @ 24"OC	611	AT 8"OC ONE SIDE
D	15/32"	STRUCT I	ONE SIDE	10d@ 2",2",12"	3X	1 ROW @ 4" OC	5/8" DIA X 8" EMBED @ 24"OC	800	AT 8"OC ONE SIDE
E	15/32"	STRUCT I	TWO SIDES	10d@ 4",4",12"	3X	1 ROW @ 4" OC	5/8" DIA X 8" EMBED @ 16"OC	938	AT 12"OC EA SIDE
F	15/32"	STRUCT I	TWO SIDES	10d@ 3",3",12"	3X	1 ROW @ 3" OC	5/8" DIA X 8" EMBED @ 16"OC	1223	AT 8"OC EA SIDE
G	15/32"	STRUCT I	TWO SIDES	10d@ 2",2",12"	3X	2 ROWS @ 4" OC	5/8" DIA X 8" EMBED @ 12"OC	1600	AT 8"OC EA SIDE

12 SHEAR WALL SCHEDULE AND ELEVATION
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

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BAR SCALE

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60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

TYPICAL WOOD DETAILS

SCALE: 1" = 1'-0"

S032

DATE

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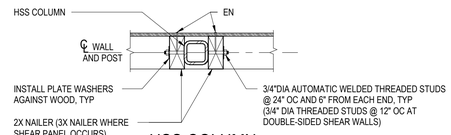
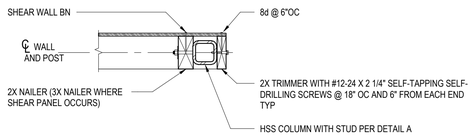
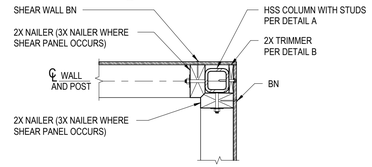


A HSS COLUMN



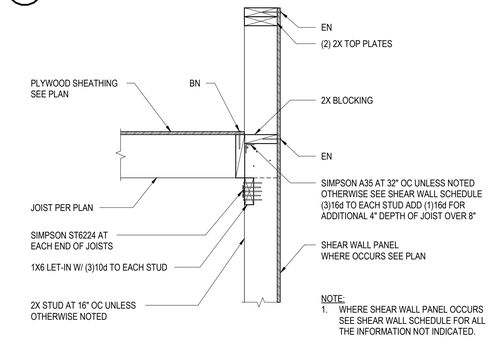
B HSS COLUMN



C HSS COLUMN

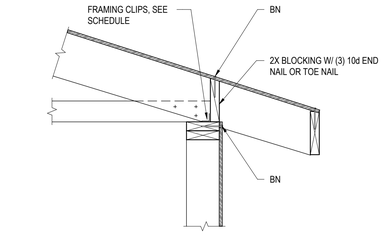
5 SHEAR WALL STEEL COLUMN CONNECTION

NOT TO SCALE



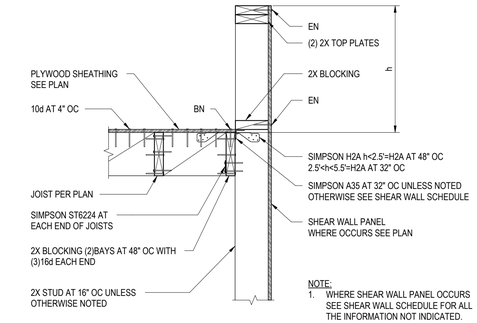
6 PARAPET PERPENDICULAR TO JOIST

NOT TO SCALE



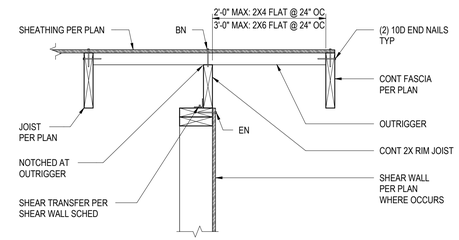
2 SHEAR WALL CONNECTION TO ROOF

NOT TO SCALE



7 PARAPET PARALLEL TO JOIST

NOT TO SCALE



3 ROOF EDGE OUTRIGGER

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TYPICAL WOOD DETAILS

SCALE: 1" = 1'-0"

S033

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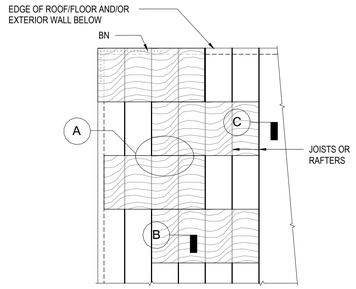
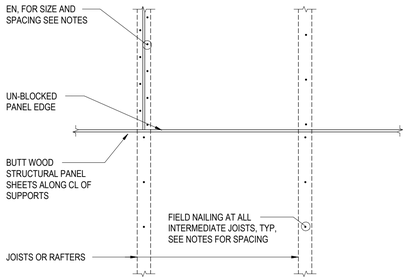
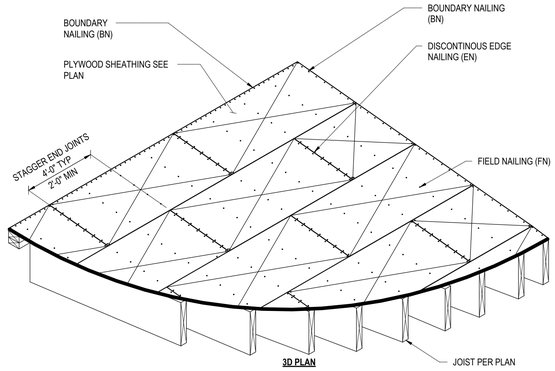
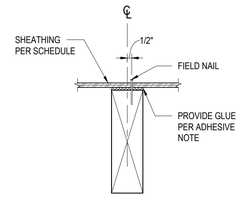




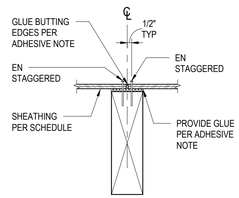
A PLAN VIEW



3D PLAN



B SECTION



C SECTION

NOTES:
1. PROVIDE WOOD STRUCTURAL PANEL SHEETS NOT LESS THAN 2'-0" IN LEAST DIMENSION NOR LESS THAN 8'-0" SQ FEET IN AREA. USE FULL SHEETS WHEREVER POSSIBLE.
2. PLACE WOOD STRUCTURAL PANEL SHEET WITH FACE PLIES PERPENDICULAR TO JOISTS AND STAGGER 4'-0" EDGES AS SHOWN.
3. COORDINATE JOIST LAYOUT WITH 4'-0" MODULE AS RELATED TO STRUCTURAL 1 RATED SHEATHING EXPOSURE 1.
4. ADHESIVE (FLOOR SHEATHING ONLY): ADHESIVE SHALL CONFORM TO APA SPECIFICATION AFG-01 OR ASTM D3498, APPLIED IN ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S RECOMMENDATIONS. IF OSB PANELS WITH SEALED SURFACES AND EDGES ARE TO BE USED, USE ONLY SOLVENT-BASED GLUES; CHECK WITH PANEL MANUFACTURER.
   EXECUTION:
   A. APPLY A BEAD OF GLUE ABOUT 1/4 INCH IN DIA TO ALL CONTACT/BEARING SURFACES. ON WIDE AREAS APPLY GLUE IN SERPENTINE PATTERN.
   B. APPLY TWO BEADS OF GLUE ON JOISTS WHERE PANEL ENDS BUTT.
   C. APPLY GLUE PROGRESSIVELY TO BUTTING EDGES OF PANELS AND INTO GROOVED EDGES OF TONGUE AND GROOVE PANELS AS WORK PROCEEDS. COMPLETE NAILING OF EACH PANEL BEFORE GLUE SETS.
5. AT INTERIOR SHEARWALL LOCATIONS, PROVIDE DOUBLE LINES OF DIAPHRAGM NAILING INTO TRANSFER BLOCKING OR TOP PLATES.

DIAPHRAGM SHEATHING SCHEDULE							
DIAPH TYPE	SHEATHING	NAILING					
		LINES OF FASTENERS	TYPE*	WIDTH OF NAILED FACE	BN	EN	FN
D1	15/32"	1	10d COMMON	2"	6"	6"	12"
D2	23/32"	1	10d COMMON	2"	6"	6"	12"

7 UNBLOCKED DIAPHRAGM SHEATHING SCHEDULE
NOT TO SCALE

STRAP SCHEDULE					
MARK	TYPE	LENGTH	NAILS	MIN END LENGTH	ALLOWABLE LOAD
S1	CMST12	PER PLAN	(86) 10d	39"	9215#
S2	CMST14	PER PLAN	(66) 10d	30"	6490#
S3	CS14	PER PLAN	(30) 8d	16"	2490#
S4	CS16	PER PLAN	(22) 8d	13"	1705#
S5	CS18	PER PLAN	(18) 8d	11"	1370#

NOTES:
1. ALL STRAPS ARE SIMPSON BRAND (LARR 25713).
2. NAILS INDICATED ARE MINIMUM NUMBER OF NAILS REQUIRED IN MINIMUM END LENGTH DISTANCE SHOWN ABOVE.
3. REFER TO PLAN FOR REQUIRED LENGTH OF STRAPS. WHERE NO LENGTH IS INDICATED ON PLANS, STRAP LENGTH SHALL EQUAL TWICE THE MINIMUM END LENGTH DISTANCE SHOWN IN SCHEDULE ABOVE.
4. WHERE LENGTH OF STRAP IS LONGER THAN MINIMUM END LENGTH SHOWN ABOVE, PROVIDE FULL NAILING OVER ENTIRE LENGTH OF STRAP.
5. FULL NAILING IS EQUIVALENT NAILING REQUIRED OVER MINIMUM END LENGTH DISTANCE SHOWN ABOVE.

4 STRAP SCHEDULE
NOT TO SCALE

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40% PROGRESS DESIGN	04.15.2025

TYPICAL WOOD DETAILS

SCALE: As indicated

S034

DATE

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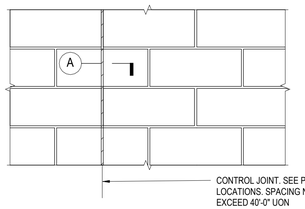
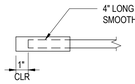
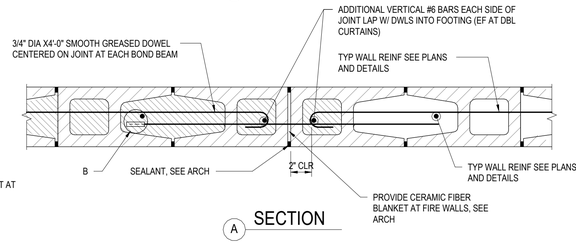


ELEVATION

NOTE:
1. STOP HORIZONTAL BOND BEAM REINFORCEMENT AT JOINT EXCEPT HORIZONTAL CHORD REINFORCEMENT AT FLOORS AND ROOF TO BE CONT THRU JOINT.



B DETAIL

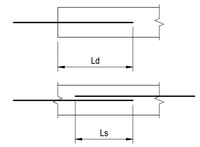


A SECTION

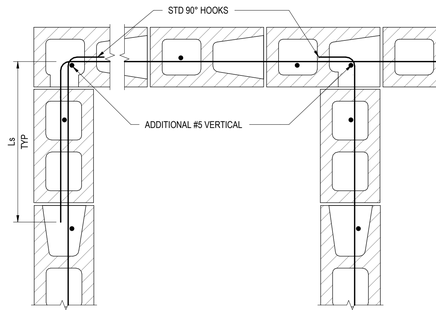
9 CONTROL JOINT
NOT TO SCALE

CMU REINF DEVELOPMENT AND SPLICE LENGTHS														
BAR LOCATION	CONCRETE MASONRY UNIT		BAR SIZE											
			#3		#4		#5		#6		#7		#8		#9	
	TYPE	STRENGTH	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls
CONCRETE MASONRY UNIT	-	fm > 1.5 ksi	25	25	33	33	41	41	49	49	57	57	65	65	74	74

NOTES:
1. Ld = DEVELOPMENT LENGTH.
2. Ls = LAP SPLICE LENGTH.

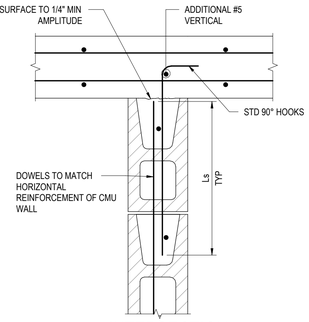


1 CMU REINFORCEMENT DEVELOPMENT AND SPLICE LENGTHS
NOT TO SCALE

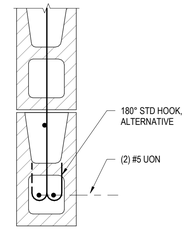


A CORNER

B INTERSECTION

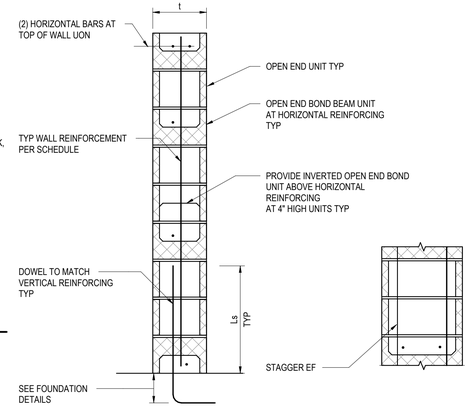


C INTERSECTION AT CORNER

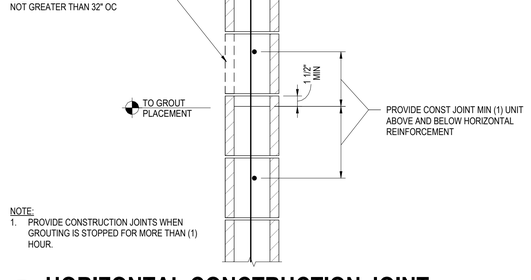


D END

10 WALL REINF AT CORNERS, INTERSECTIONS AND ENDS
NOT TO SCALE

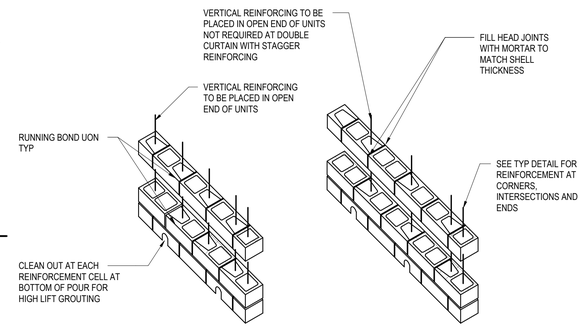


SECTION AT DOUBLE CURTAIN



NOTE:
1. PROVIDE CONSTRUCTION JOINTS WHEN GROUTING IS STOPPED FOR MORE THAN (1) HOUR.

7 HORIZONTAL CONCTRUCTION JOINT
NOT TO SCALE



NOTE:
1. 16" LONG UNITS WITH VERTICAL REINFORCING @ 16" OC (32" OC AND 40" OC SIM) 24" LONG UNITS WITH VERTICAL REINFORCEMENT AT 24" OC (48" OC SIM)

NOTE:
1. 16" LONG UNITS WITH VERTICAL REINFORCING @ 24" OC (40" OC SIM) 24" LONG UNITS WITH VERTICAL REINFORCEMENT @ 36" OC

ISOMETRIC (DOUBLE CURTAIN SIM)

NOTES:
1. ALL CELLS TO BE FULLY GROUTED.
2. SECURE REINFORCEMENT AT 200 db MAX.
3. CONCAVE JOINTS, TYP UON.

4 WALL REINFORCING
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

700 WARREN LN
INGLEWOOD, CA 90302

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BAR SCALE

SHEET REVISION	DATE

ISSUE	DATE
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TYPICAL MASONRY DETAILS

SCALE: As indicated

S040

DATE

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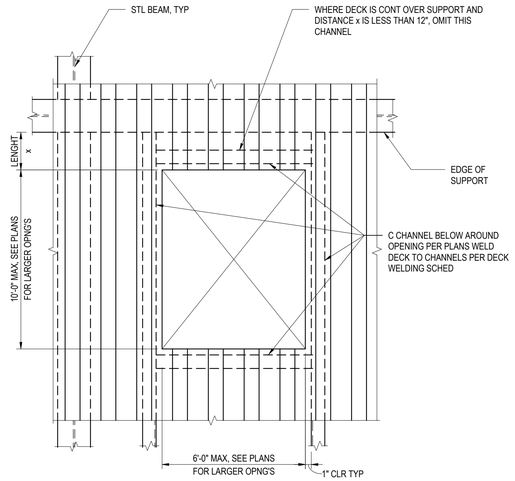
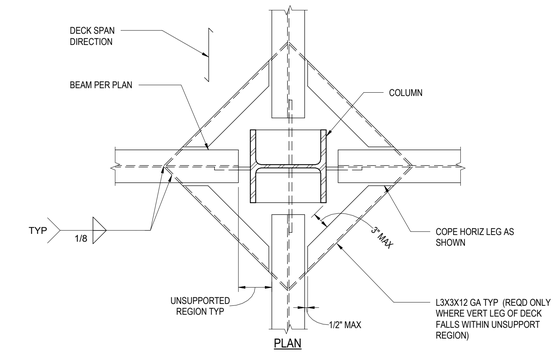
SLAB TYPE	DECK TYPE	HEIGHT	GAUGE	FACTORY VENTED	MINIMUM SECTION PROPERTIES			FILL		STUD SIZE	SLAB REINFORCING	ATTACHMENT TYPE				SIDE LAP	REMARKS
												TO PERIMETER SUPPORT		TO INTERMEDIATE SUPPORT			
					I (IN^4)	S+ (IN^3)	S- (IN^3)	SLAB TYPE	MIN THICKNESS ABOVE TOP FLUTE			PERPENDICULAR TO DECK	PARALLEL TO DECK	PERPENDICULAR TO DECK	PARALLEL TO DECK		
M1	CENTRIA MR3-36	3"	22	NO	0.594	0.286	0.286	-	-	-	-	1/2" DIA PUDDLE WELD AT ALL DOWN FLUTES	1/2" DIA PUDDLE WELD @ 24"OC	1/2" DIA PUDDLE WELD AT ALL DOWN FLUTES	1/2" DIA PUDDLE WELD @ 12" OC	1 1/2" SIDE SEAM WELD @ 24" OC	SEE PLANS FOR SHEAR RESISTANT ANGLE

NOTES:
1. WHENEVER POSSIBLE, DECK LAYOUTS SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH OF SPAN CONTINUOUSLY ACROSS AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED.
2. SHORE DECK AS REQUIRED BY MANUFACTURER.
3. PROVIDE A MINIMUM OF 2" BEARING AT SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1 1/2" AT MEMBERS PARALLEL TO DECK SPAN.
4. DIA OF PUDDLE WELD SHOWN REPRESENTS EFFECTIVE FUSION AREA.
5. EACH PUDDLE WELD SHOWN MAY BE REPLACED WITH A SHEAR STUD WELDED THROUGH DECK.
6. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS ARE MINIMUM THINNESS. PROVIDE ADDITIONAL CONCRETE FILL AS REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND MAINTAIN SURFACE TOLERANCES SPECIFIED.

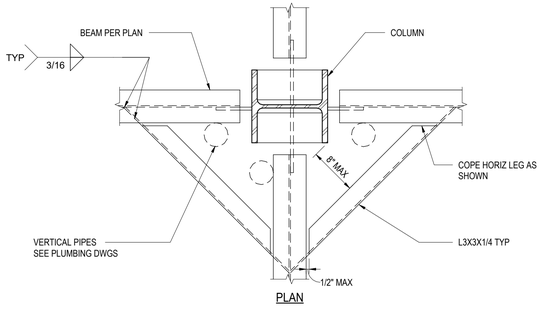
13 METAL DECK SCHEDULE OF PROPERTIES
NOT TO SCALE



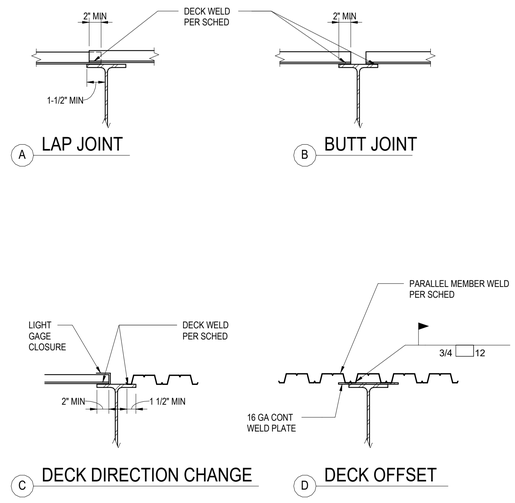
11 LARGE OPENING IN STEEL DECK
NOT TO SCALE



6 DECK SUPPORT AT COLUMN
NOT TO SCALE

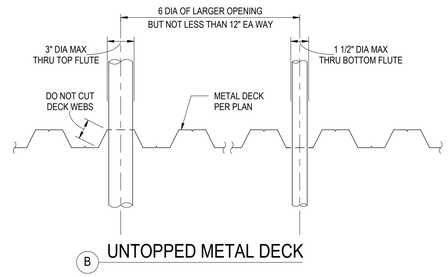


7 OPENINGS ADJACENT TO COLUMN
NOT TO SCALE



NOTE:
1. SEE STEEL DECK NOTES AND DECK SCHEDULE FOR COMPLETE INFORMATION.

3 TYPICAL DECK JOINT OVER SUPPORT
NOT TO SCALE



4 PENETRATIONS IN METAL DECK
NOT TO SCALE

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

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TYPICAL METAL DECK DETAILS

SCALE: 1" = 1'-0"

S050

DATE

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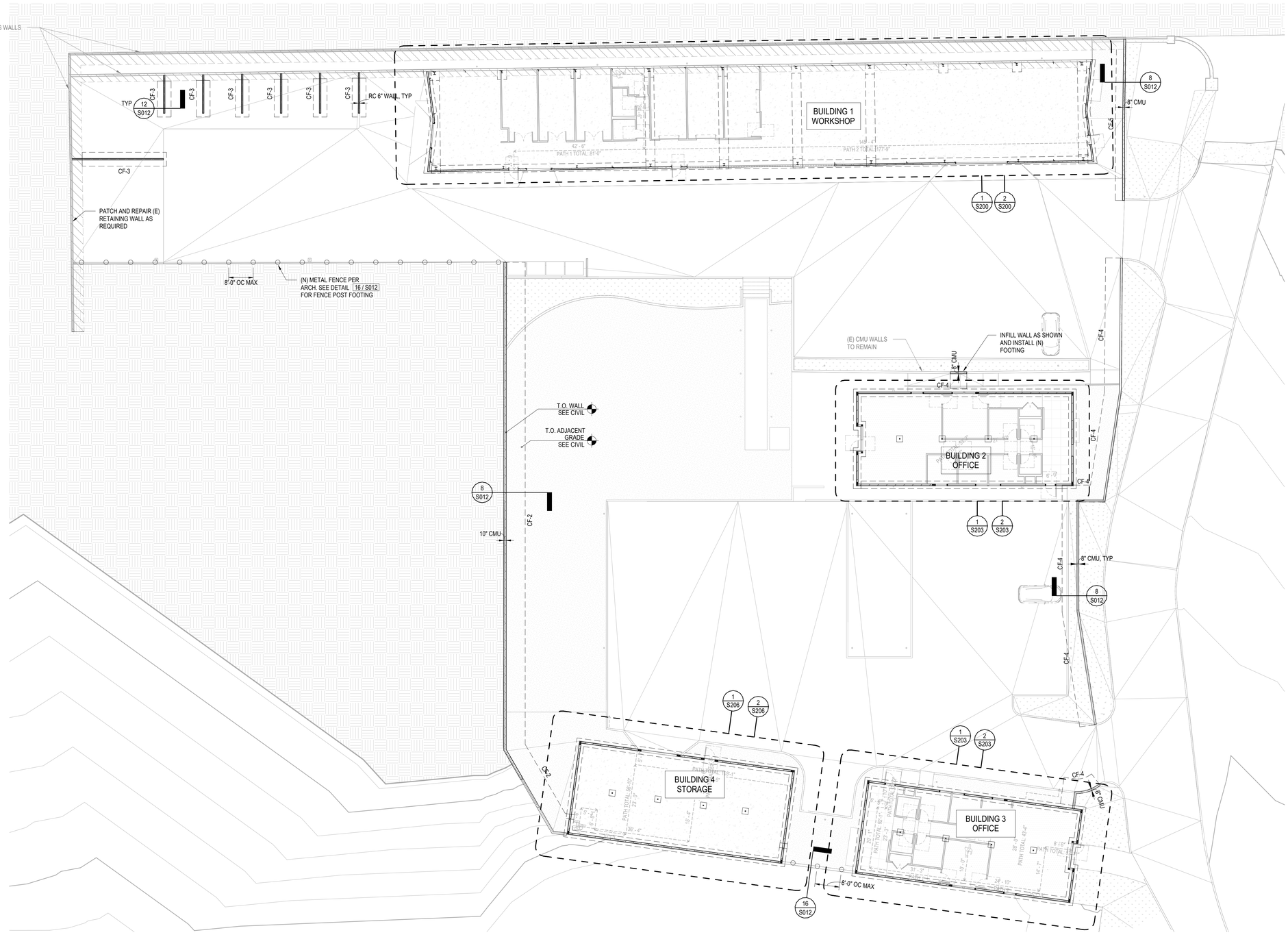

CONTINUOUS FOOTING SCHEDULE							
TYPE MARK	WIDTH, W	DEPTH, D	TOP BARS	BOTTOM BARS	SIDE BARS	TIES	NOTES
CF-1	2' - 6"	1'-6"	(3) #5	(3) #5	-	#4 @ 12" OC	-
CF-2	7' - 0"	2'-6"	(8) #5	(8) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 8FT
CF-3	4' - 6"	1'-6"	(6) #5	(6) #5	-	#4 @ 12" OC	-
CF-4	5' - 6"	1'-6"	(7) #5	(7) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 5FT
CF-5	3' - 0"	1'-6"	(4) #5	(4) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 3FT

REINFORCED CONCRETE WALL SCHEDULE			
TYPE	WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
RC 6"	6"	#5 @ 12" OC	#5 @ 12" OC

CMU WALL SCHEDULE		
TYPE	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
6" CMU	#6 @ 8" OC	#6 @ 8" OC
8" CMU	#6 @ 8" OC EA FACE	#5 @ 16" OC EA FACE
10" CMU	#6 @ 8" OC EA FACE	#5 @ 16" OC EA FACE

SITE PLAN LEGEND

INDICATES CMU WALL ABOVE THICKNESS PER PLAN FOR TYPICAL REINFORCING INFORMATION SEE SCHEDULE

INDICATES REINFORCED CONCRETE WALL ABOVE, THICKNESS PER PLAN FOR TYPICAL REINFORCING INFORMATION SEE SCHEDULE

CF-# INDICATES CONTINUOUS FOOTING PER SCHEDULE

GB-# INDICATES GRADE BEAM PER SCHEDULE

SITE PLAN NOTES:
1. SEE SOILS REPORT FOR REMOVAL OF SURFACE FILL AND SOIL PREP FOR SLAB ON GRADE CONSTRUCTION.
2. SHALLOW FOUNDATIONS TO BE DEEPENED INTO NATIVE SOILS.

1 SITE PLAN
1/16" = 1'-0"

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

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SITE PLAN

SCALE: As indicated

S100

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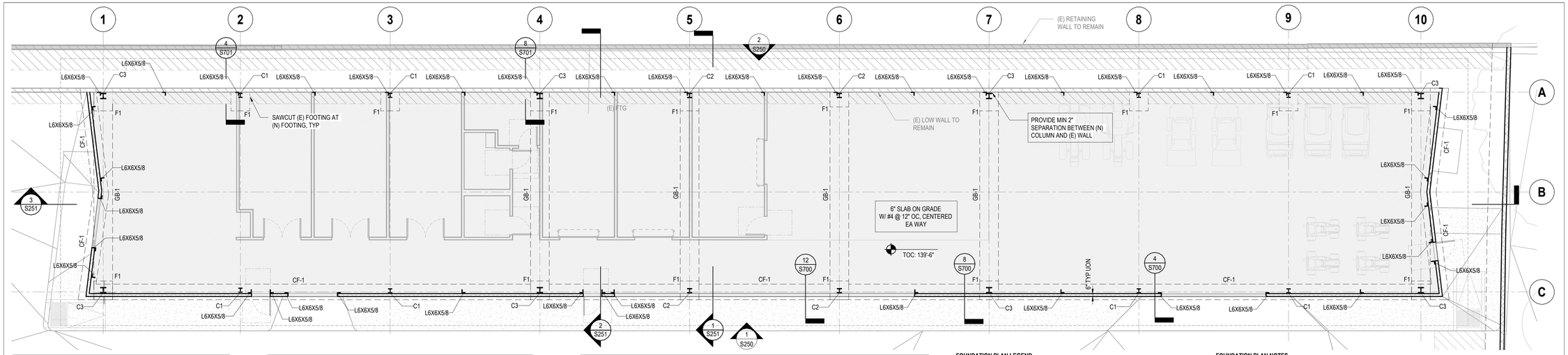


CMU WALL SCHEDULE

TYPE	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
6" CMU	#6 @ 8" OC	#6 @ 8" OC
8" CMU	#6 @ 8" OC EA FACE	#5 @ 16" OC EA FACE
10" CMU	#6 @ 8" OC EA FACE	#5 @ 16" OC EA FACE

ISOLATED FOOTING SCHEDULE

TYPE MARK	WIDTH, W	LENGTH, B	DEPTH, D	TOP BARS	BOTTOM BARS
F1	3' - 0"	3'-0"	1'-6"	(4) #5	(4) #4
F2	2' - 0"	2'-0"	1'-6"	(3) #5 EA WAY	(3) #5 EA WAY

GRADE BEAM SCHEDULE

TYPE MARK	WIDTH, W	DEPTH, D	LONGITUDINAL REINFORCEMENT		SIDE BARS (EA SIDE)	TRANSVERSE REINFORCEMENT
			TOP BARS	BOTTOM BARS		TIES
GB-1	3' - 0"	1'-6"	(5) #5	(5) #5	-	#4 @ 12" OC

CONTINUOUS FOOTING SCHEDULE

TYPE MARK	WIDTH, W	DEPTH, D	TOP BARS	BOTTOM BARS	SIDE BARS	TIES	NOTES
CF-1	2' - 6"	1'-6"	(3) #5	(3) #5	-	#4 @ 12" OC	-
CF-2	7' - 0"	2'-6"	(8) #5	(6) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 8FT
CF-3	4' - 6"	1'-6"	(6) #5	(6) #5	-	#4 @ 12" OC	-
CF-4	5' - 6"	1'-6"	(7) #5	(7) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 5FT
CF-5	3' - 0"	1'-6"	(4) #5	(4) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 3FT

STEEL COLUMN SCHEDULE

TYPE MARK	COLUMN TYPE	BASE PLATE DIMENSIONS			ANCHOR RODS		BASEPLATE TYPE PER DETAIL 7/S020
		B	N	t	MARK	EMBED	
C1	W8X28	12"	12"	3/4"	A	12"	TYPE A
C2	W8X48 OMF	16"	18"	3/4"	A	14"	TYPE B
C3	W10X77 OMF	18"	20"	1"	A	14"	TYPE B

FOUNDATION PLAN LEGEND

INDICATES WALL PER ARCH

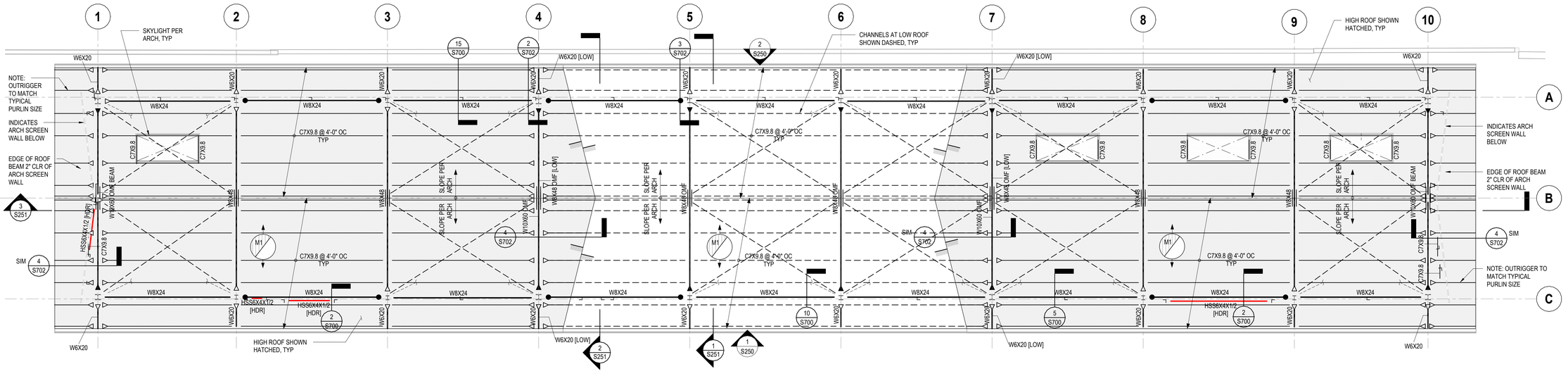
INDICATES CMU WALL ABOVE PER [4 / S040] THICKNESS PER PLAN

FOUNDATION PLAN NOTES

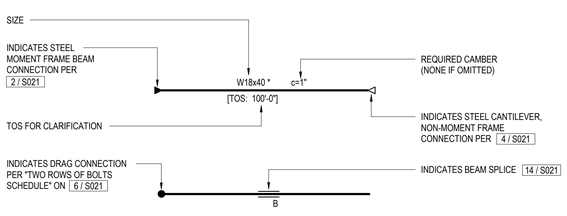
1. TOP OF FOOTING GRADE BEAM ELEVATION TO BE 1'-0" BELOW TOP OF SLAB OR FINISHED GRADE, UON.
2. REFER TO S0 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
3. ALL SETTING OUT DIMENSIONS ARE TO BE READ IN CONJUNCTION AND CONFIRMED WITH ARCHITECTURAL DRAWINGS.
4. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER/GEOTECHNICAL CONSULTANT SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS.
5. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
6. CURBS AND DEPRESSIONS ARE SHOWN FOR REFERENCE ONLY. SEE ARCH DWGS FOR LOCATIONS, HEIGHT, AND THICKNESS.
7. SEE ARCH DWGS FOR EDGE OF SLAB LOCATIONS.
8. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATIONS. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
9. FOR DRAINAGE DETAILS, SUMPS, PITS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
10. SLAB CONSTRUCTION AND CONTROL JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACING ANY CONCRETE.
11. PROVIDE A 6" CURB AT EXTERIOR TIMBER WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

1 BUILDING 1 - FOUNDATION PLAN

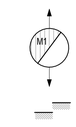
1/8" = 1'-0"



STEEL BEAM LEGEND

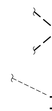


FRAMING PLAN LEGEND



INDICATES METAL DECKING TYPE AND SPAN DIRECTION, FOR ADDITIONAL INFORMATION REFER TO 13 / S050

INDICATES STEP IN DIAPHRAGM



INDICATES ROOF DIAPRAGM CABLE BRACE W/ MIN 5/8" DIA (GR 50) SEE DETAIL 9 / S021

INDICATES CABLE BRACE FRAME W/ MIN 5/8" DIA (GR 50) SEE DETAIL 9 / S021 AND BUILDING ELEVATIONS

FRAMING PLAN NOTES

1. TOP OF SHEATHING PER PLAN (TOD).
2. REFER TO STEEL BEAM LEGEND FOR NAILER CONDITION. TOP OF FRAMING INCLUDES NAILER THICKNESS.
3. REFER TO S0 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
4. DEPRESSIONS, CURBS, AND OPENINGS SHOWN ON THIS PLAN ARE NOT COMPLETE AS TO NUMBER, SIZE, AND LOCATION. FOR COMPLETE INFORMATION, REFER TO DRAWINGS OTHER THAN STRUCTURAL.
5. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF EQUIPMENT SUPPORT BEAMS AND BEAMS AROUND FLOOR OPENINGS WITH ALL PROJECT REQUIREMENTS.
6. EDGE OF SLAB LOCATIONS ARE APPROXIMATE, SEE ARCH DWGS FOR EDGE OF SLAB DIMENSIONS.

2 BUILDING 1 - ROOF FRAMING PLAN

1/8" = 1'-0"

EDWARD VINCENT PARK MAINTENANCE FACILITY

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BUILDING 1 - FOUNDATION & ROOF FRAMING PLAN

SCALE: As indicated

S200

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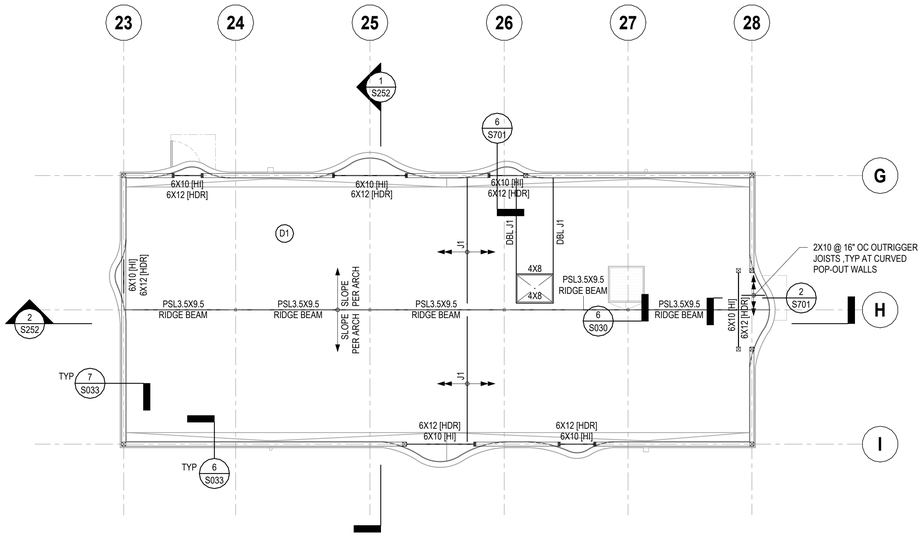
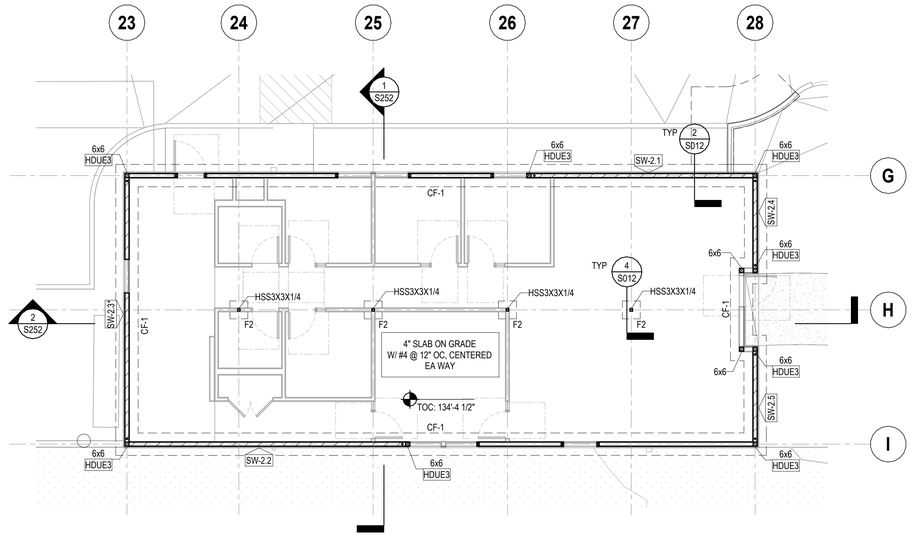


2 BUILDING 2 & 3 - ROOF FRAMING PLAN

1/8" = 1'-0"



1 BUILDING 2 & 3 - FOUNDATION PLAN

1/8" = 1'-0"

CONTINUOUS FOOTING SCHEDULE							
TYPE MARK	WIDTH, W	DEPTH, D	TOP BARS	BOTTOM BARS	SIDE BARS	TIES	NOTES
CF-1	2' - 6"	1'-6"	(3) #5	(3) #5	-	#4 @ 12" OC	-
CF-2	7' - 0"	2'-6"	(8) #5	(8) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 8FT
CF-3	4' - 6"	1'-6"	(6) #5	(6) #5	-	#4 @ 12" OC	-
CF-4	5' - 6"	1'-6"	(7) #5	(7) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 5FT
CF-5	3' - 0"	1'-6"	(4) #5	(4) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 3FT

HOLDOWN SCHEDULE		
TYPE	FOUNDATION EMBED, e	ANCHOR ROD DIAMETER
HDUE3	8"	5/8"

WOOD SHEAR WALL SCHEDULE			
WALL ID	SHEAR WALL TYPE	LENGTH	WIDTH
SW-2.1	B	25'-6"	5 1/2"
SW-2.2	B	31'-6"	5 1/2"
SW-2.3*	B	30'-0"	5 1/2"
SW-2.4	B	11'-0"	5 1/2"
SW-2.5	B	11'-0"	5 1/2"

ISOLATED FOOTING SCHEDULE					
TYPE MARK	WIDTH, W	LENGTH, B	DEPTH, D	TOP BARS	BOTTOM BARS
F1	3' - 0"	3'-0"	1'-6"	(4) #5	(4) #4
F2	2' - 0"	2'-0"	1'-6"	(3) #5 EA WAY	(3) #5 EA WAY

JOIST SCHEDULE				
TYPE MARK	SIZE AND SPACING	HANGER (TYPICAL)	HANGER (SKEWED)	NOTES
J1	2X10 @ 16" OC	LUS	BA	

FRAMING PLAN LEGEND

- INDICATES WALL BELOW
- D1 — INDICATES DIAPHRAGM TYPE, FOR ADDITIONAL INFORMATION REFER TO 7 / S034
- J1 — INDICATES JOIST TYPE PER SCHEDULE; EXTENT PER PLAN; FOR HANGER INFORMATION SEE SCHEDULE
- INDICATES STRAP PER SCHEDULE
- S1X# — INDICATES TOTAL STRAP LENGTH (FT)

FRAMING PLAN NOTES

1. TOP OF SHEATHING PER PLAN (TOD).
2. REFER TO STEEL BEAM LEGEND FOR NAILER CONDITION. TOP OF FRAMING INCLUDES NAILER THICKNESS.
3. REFER TO S0 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
4. DEPRESSIONS, CURBS, AND OPENINGS SHOWN ON THIS PLAN ARE NOT COMPLETE AS TO NUMBER, SIZE, AND LOCATION. FOR COMPLETE INFORMATION, REFER TO DRAWINGS OTHER THAN STRUCTURAL.
5. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF EQUIPMENT SUPPORT BEAMS AND BEAMS AROUND FLOOR OPENINGS WITH ALL PROJECT REQUIREMENTS.
6. EDGE OF SLAB LOCATIONS ARE APPROXIMATE, SEE ARCH DWGS FOR EDGE OF SLAB DIMENSIONS.

FOUNDATION PLAN LEGEND

- INDICATES WALL PER ARCH
- INDICATES STUD/BEARING WALL PER THICKNESS AND LOCATION PER ARCH
- INDICATES WOOD SHEAR WALL ID, AT SIDE TO BE NAILED; REFER TO "SHEAR WALL SCHEDULE" FOR ADDITIONAL INFORMATION
  - FOR SHEAR WALL CONSTRUCTION PER "SHEAR WALL TYPE" REFER TO 12 / S032
- INDICATES PERFORATED WALL PER 7 / S031
- INDICATES LOCATION OF POST AND HOLDOWN,
  - POST SIZE PER PLAN
  - HOLDOWN TYPE PER PLAN
  - ADDITIONAL HOLDOWN, ANCHOR ROD, AND EMBED INFORMATION PER "HOLDOWN SCHEDULE"
- INDICATES WOOD SHEAR WALL EXTENTS, ABOVE; LENGTH SHOWN IN SCHEDULE INDICATES APPROXIMATE LENGTH OF SHEAR WALL, ACTUAL LENGTH MAY DEVIATE +/- 6".

SW1.1* · 6x6 HDU8 · 6x6 HDU8

FOUNDATION PLAN NOTES

1. TOP OF FOOTING GRADE BEAM ELEVATION TO BE 1'-0" BELOW TOP OF SLAB OR FINISHED GRADE, UON.
2. REFER TO S0 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
3. ALL SETTING OUT DIMENSIONS ARE TO BE READ IN CONJUNCTION AND CONFIRMED WITH ARCHITECTURAL DRAWINGS.
4. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER/GEOTECHNICAL CONSULTANT SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS.
5. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
6. CURBS AND DEPRESSIONS ARE SHOWN FOR REFERENCE ONLY. SEE ARCH DWGS FOR LOCATIONS, HEIGHT, AND THICKNESS.
7. SEE ARCH DWGS FOR EDGE OF SLAB LOCATIONS.
8. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATIONS. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
9. FOR DRAINAGE DETAILS, SUMPS, PITS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
10. SLAB CONSTRUCTION AND CONTROL JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACING ANY CONCRETE.
11. PROVIDE A 6" CURB AT EXTERIOR TIMBER WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

EDWARD VINCENT PARK MAINTENANCE FACILITY

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BUILDING 2 & 3 - FOUNDATION AND ROOF FRAMING PLANS

SCALE: As indicated

S203

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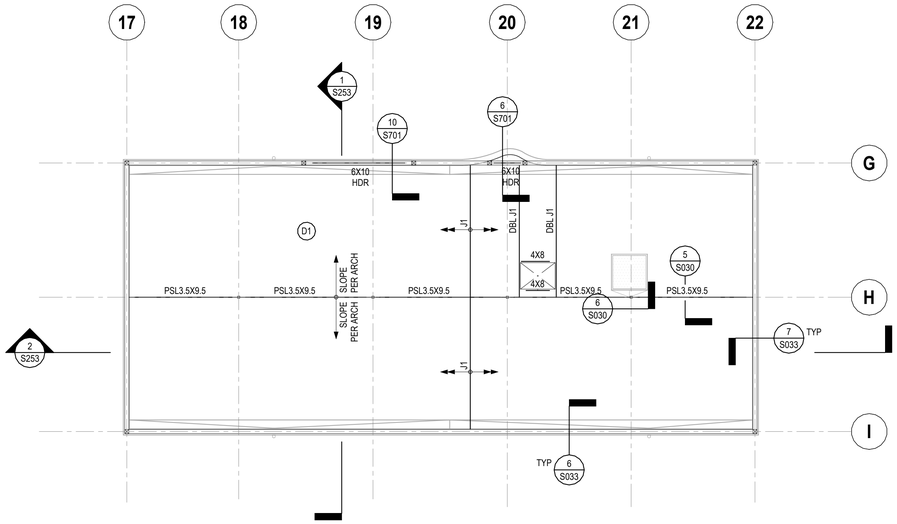
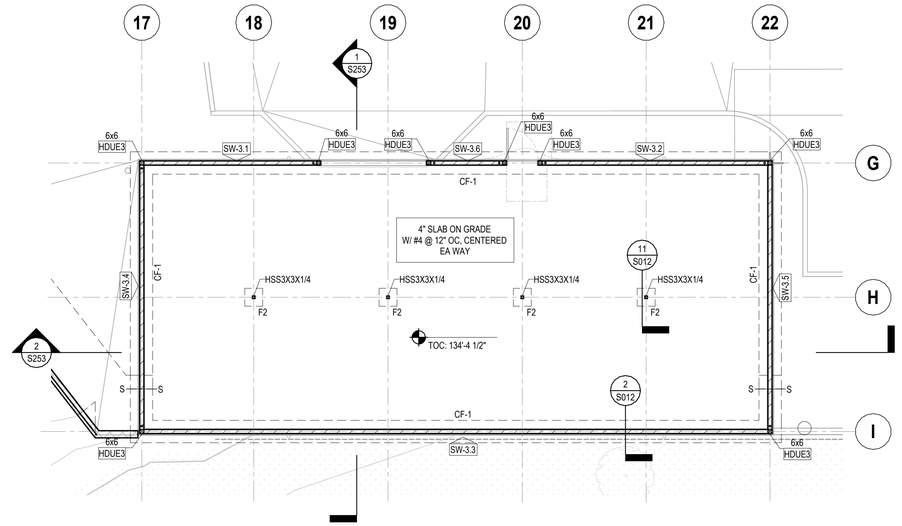


2 BUILDING 4 - ROOF FRAMING PLAN

1/8" = 1'-0"



1 BUILDING 4 - FOUNDATION PLAN

1/8" = 1'-0"

CONTINUOUS FOOTING SCHEDULE							
TYPE MARK	WIDTH, W	DEPTH, D	TOP BARS	BOTTOM BARS	SIDE BARS	TIES	NOTES
CF-1	2' - 6"	1'-6"	(3) #5	(3) #5	-	#4 @ 12" OC	-
CF-2	7' - 0"	2'-6"	(8) #5	(8) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 8FT
CF-3	4' - 6"	1'-6"	(6) #5	(6) #5	-	#4 @ 12" OC	-
CF-4	5' - 6"	1'-6"	(7) #5	(7) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 5FT
CF-5	3' - 0"	1'-6"	(4) #5	(4) #5	-	#6 @ 8" OC	MAX RETAINING HEIGHT 3FT

ISOLATED FOOTING SCHEDULE					
TYPE MARK	WIDTH, W	LENGTH, B	DEPTH, D	TOP BARS	BOTTOM BARS
F1	3' - 0"	3'-0"	1'-6"	(4) #5	(4) #4
F2	2' - 0"	2'-0"	1'-6"	(3) #5 EA WAY	(3) #5 EA WAY

HOLDOWN SCHEDULE		
TYPE	FOUNDATION EMBED, e	ANCHOR ROD DIAMETER
HDUE3	8"	5/8"

WOOD SHEAR WALL SCHEDULE			
WALL ID	SHEAR WALL TYPE	LENGTH	WIDTH
SW-3.1	A	20'-0"	5 1/2"
SW-3.2	A	26'-0"	5 1/2"
SW-3.3	A	70'-0"	5 1/2"
SW-3.4	A	30'-0"	5 1/2"
SW-3.5	A	30'-0"	5 1/2"
SW-3.6	A	9'-0"	5 1/2"

JOIST SCHEDULE			
TYPE MARK	SIZE AND SPACING	HANGER (TYPICAL)	NOTES
J1	2X10 @ 16" OC	LUS	

FRAMING PLAN LEGEND

INDICATES WALL BELOW

D1 — INDICATES DIAPHRAGM TYPE, FOR ADDITIONAL INFORMATION REFER TO 7 / S034

J1 — INDICATES JOIST TYPE PER SCHEDULE EXTENT PER PLAN FOR HANGER INFORMATION SEE SCHEDULE

INDICATES STRAP PER SCHEDULE

S1X# — INDICATES TOTAL STRAP LENGTH (FT)

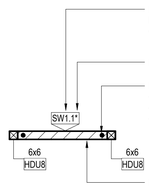
FRAMING PLAN NOTES

1. TOP OF SHEATHING PER PLAN (TOD).
2. REFER TO STEEL BEAM LEGEND FOR NAILER CONDITION. TOP OF FRAMING INCLUDES NAILER THICKNESS.
3. REFER TO S0 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS.
4. DEPRESSIONS, CURBS, AND OPENINGS SHOWN ON THIS PLAN ARE NOT COMPLETE AS TO NUMBER, SIZE, AND LOCATION. FOR COMPLETE INFORMATION, REFER TO DRAWINGS OTHER THAN STRUCTURAL.
5. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF EQUIPMENT SUPPORT BEAMS AND BEAMS AROUND FLOOR OPENINGS WITH ALL PROJECT REQUIREMENTS.
6. EDGE OF SLAB LOCATIONS ARE APPROXIMATE, SEE ARCH DWGS FOR EDGE OF SLAB DIMENSIONS.

FOUNDATION PLAN LEGEND

INDICATES WALL PER ARCH

INDICATES STUD/BEARING WALL PER THICKNESS AND LOCATION PER ARCH



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BUILDING 4 - FOUNDATION & ROOF FRAMING PLAN

SCALE: As indicated

S206

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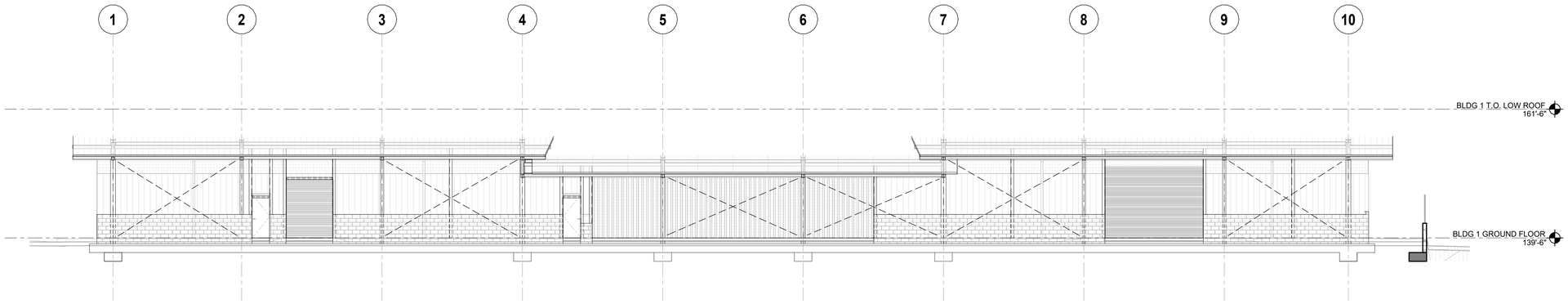
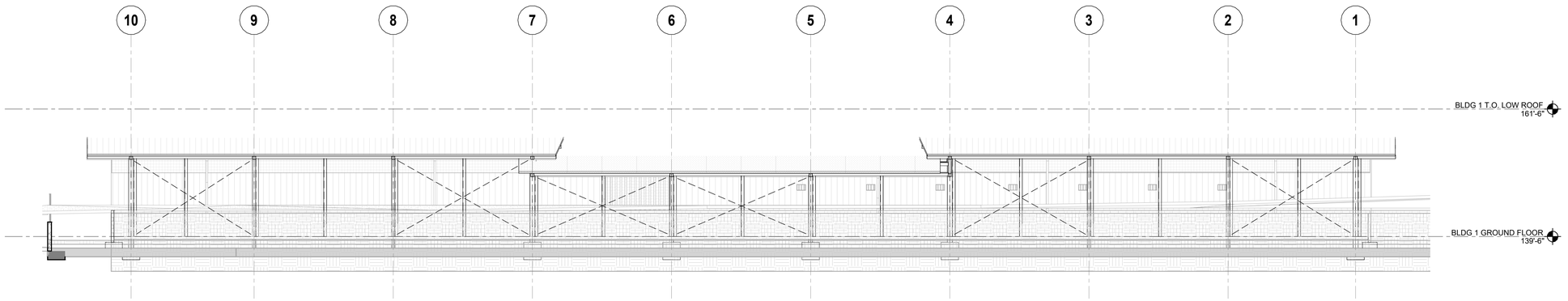


1 BUILDING 1 - BUILDING ELEVATION 1

1" = 10'-0"



2 BUILDING 1 - BUILDING ELEVATION 2

1" = 10'-0"

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BUILDING 1 BUILDING ELEVATIONS

SCALE: 1" = 10'-0"

S250

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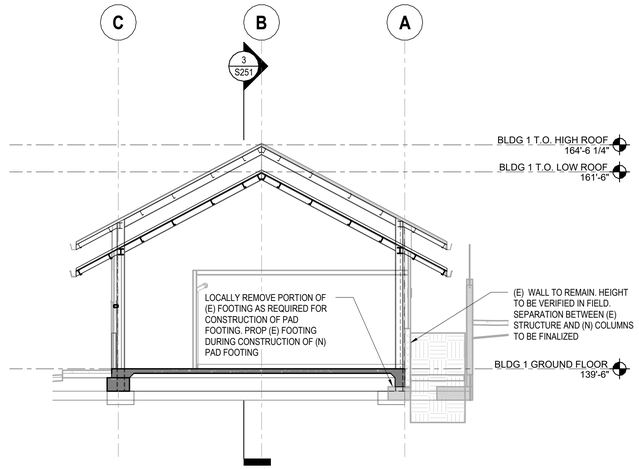
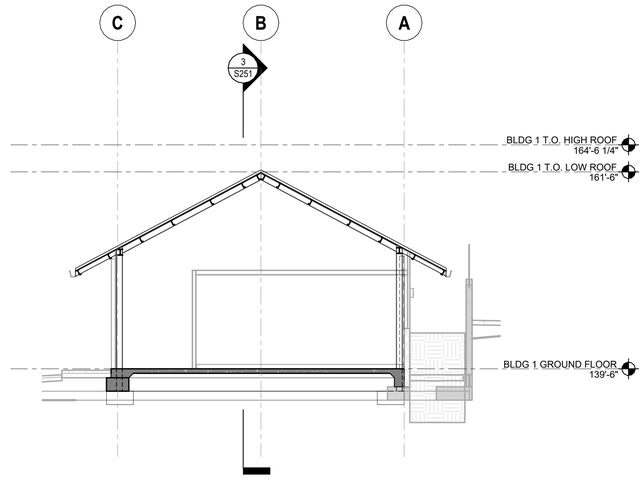


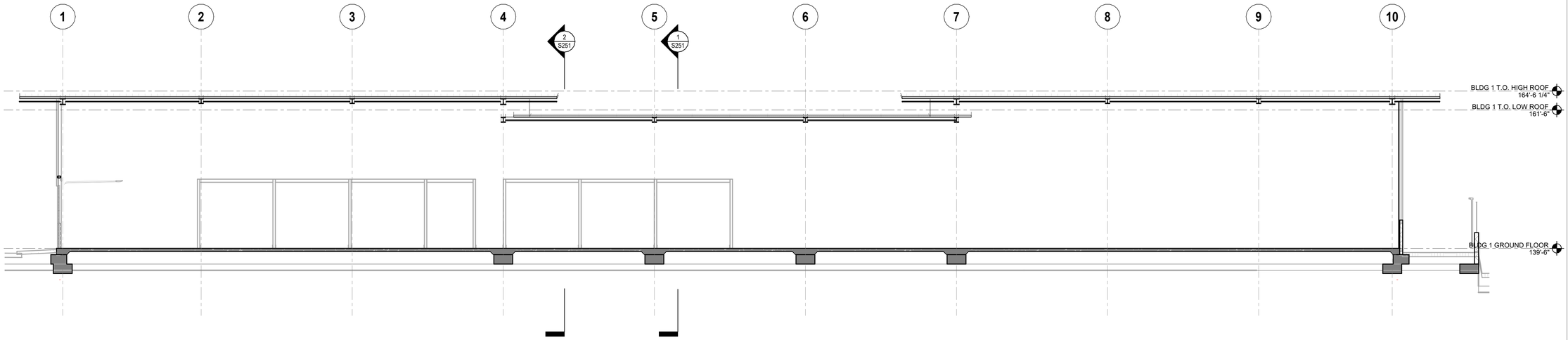
2 BUILDING 1 - CROSS SECTION

1/8" = 1'-0"



1 BUILDING 1 - CROSS SECTION

1/8" = 1'-0"



3 BUILDING 1 - LONGITUDINAL SECTION

1/8" = 1'-0"

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BUILDING 1 BUILDING SECTIONS

SCALE: 1/8" = 1'-0"

S251

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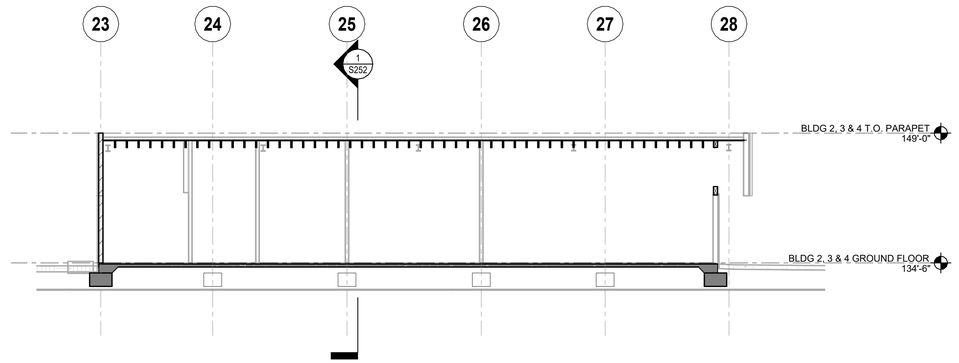
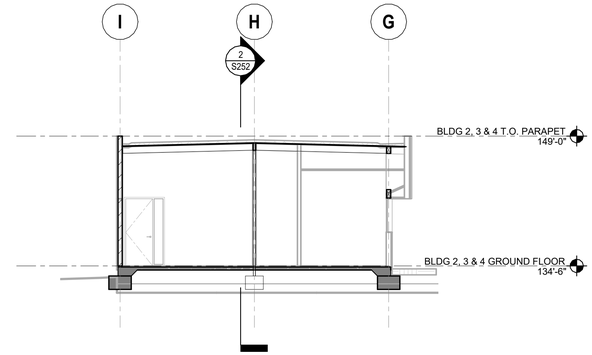


2 BUILDING 2 & 3 - LONGITUDINAL SECTION

1/8" = 1'-0"



1 BUILDING 2 & 3 - CROSS SECTION

1/8" = 1'-0"

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BUILDING 2 & 3 BUILDING SECTIONS

SCALE: 1/8" = 1'-0"

S252

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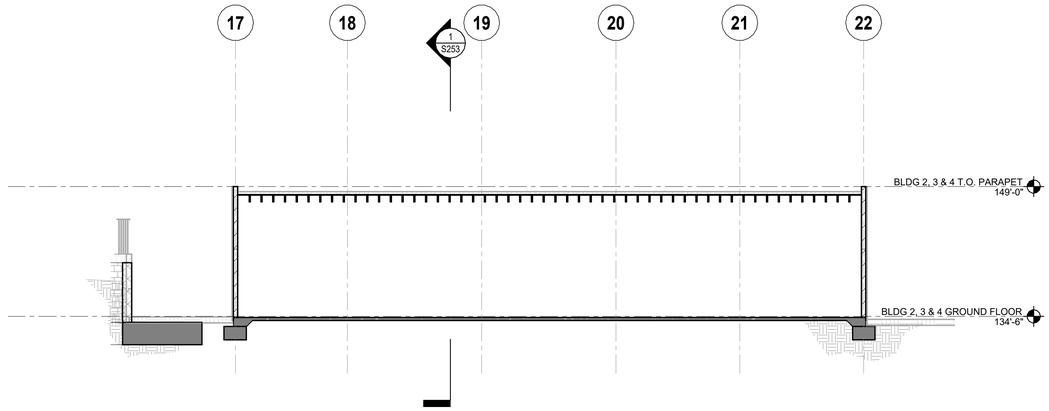
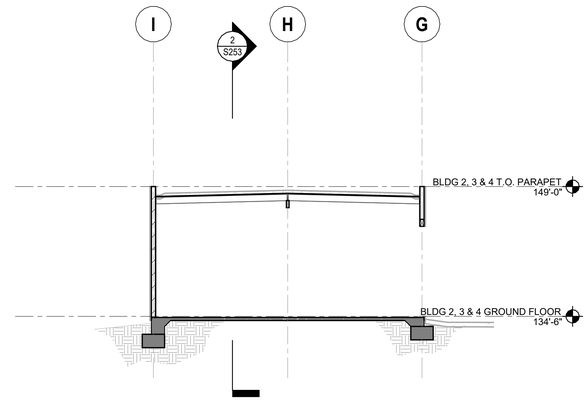


2 BUILDING 4 - LONGITUDINAL SECTION

1/8" = 1'-0"



1 BUILDING 4 - CROSS SECTION

1/8" = 1'-0"

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BUILDING 4 BUILDING SECTIONS

SCALE: 1/8" = 1'-0"

S253

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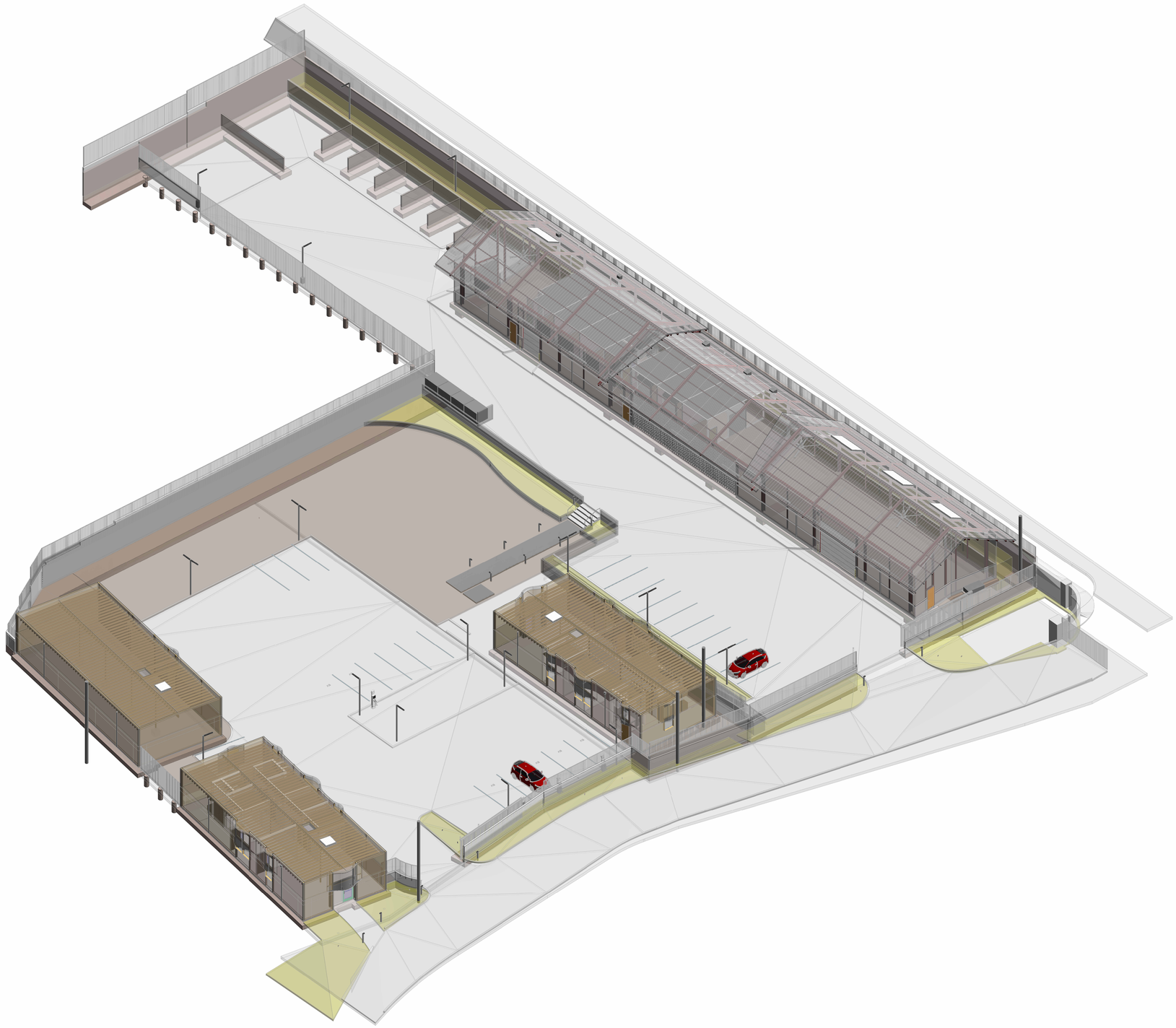

1 BUILDING 3D VIEW

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C89463
EXP 03/31/ 2027
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STATE OF CALIFORNIA

BAR SCALE

SHEET REVISION	DATE

ISSUE	DATE
ISSUE FOR BID	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

BUILDING VIEWS

SCALE:

S258

DATE

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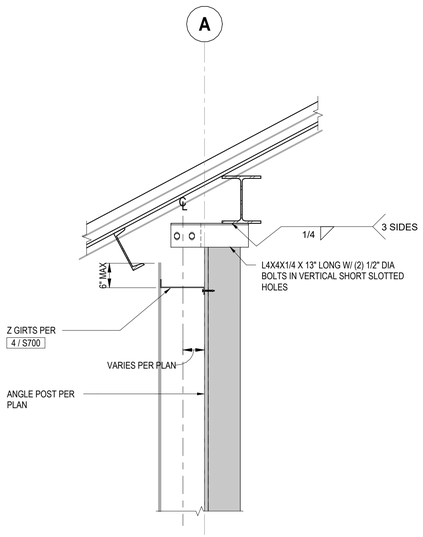
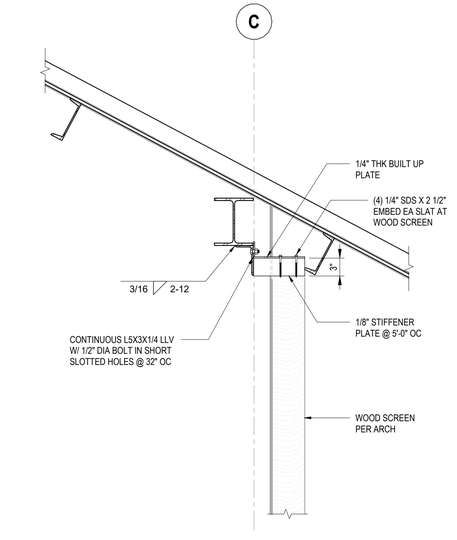


15 ANGLE POST TO ROOF ANGLE - BLDG 1
1" = 1'-0"



10 WOOD SCREEN TOP CONNECTION - BLDG 1
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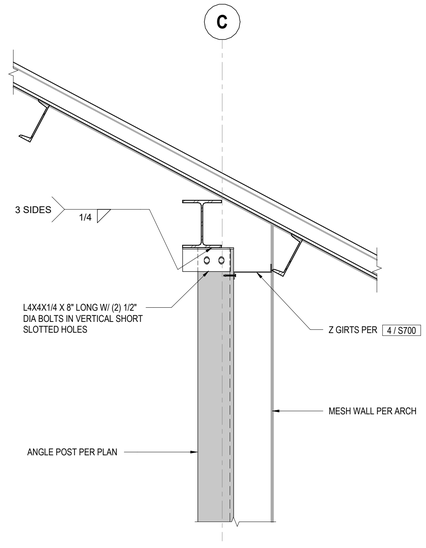
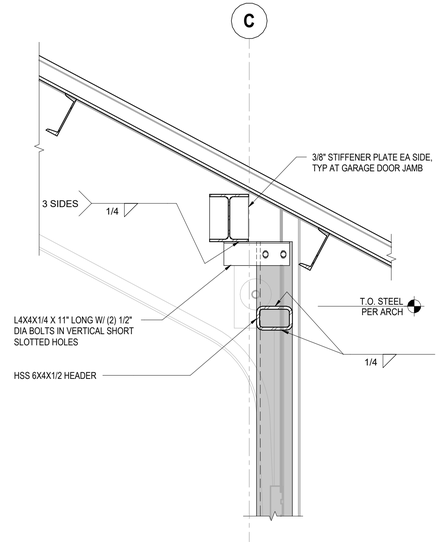
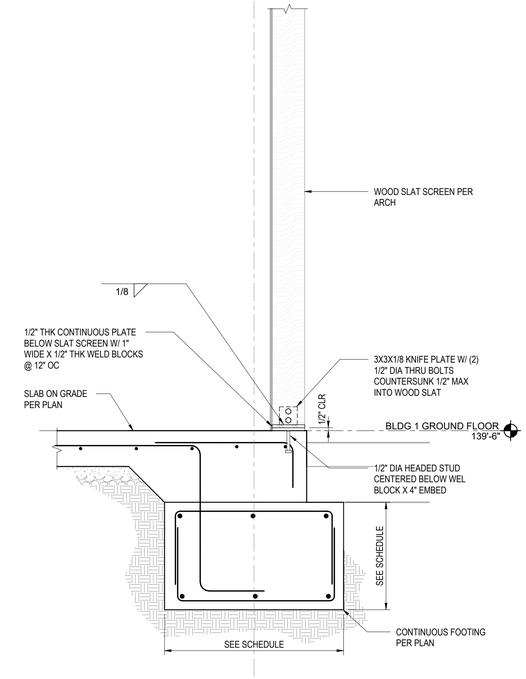


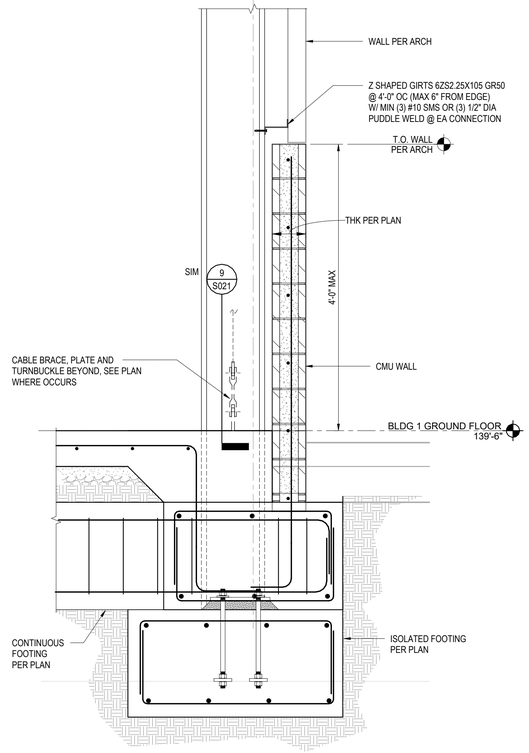
5 ANGLE POST TO WF - BLDG 1
1" = 1'-0"



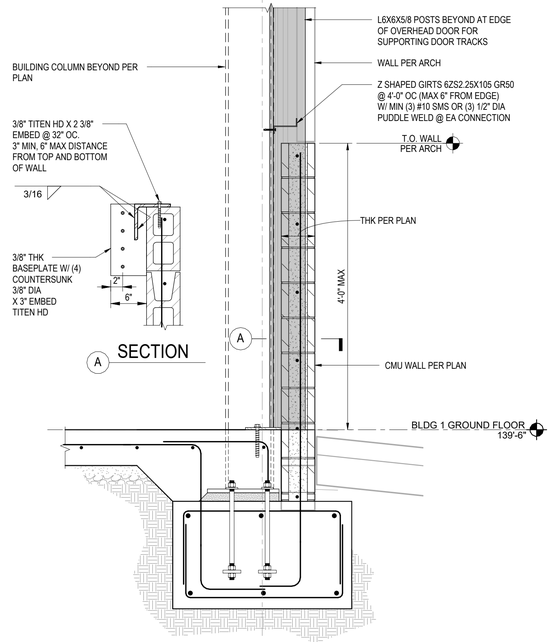
2 DOOR HEADER - BLDG 1
1" = 1'-0"



12 WOOD SCREEN BASE CONNECTION - BLDG 1
1" = 1'-0"



8 LOW CMU WALL - BLDG 1
1" = 1'-0"



4 DOOR ANGLE POST - BLDG 1
1" = 1'-0"

EDWARD VINCENT PARK MAINTENANCE FACILITY

VPF 250303

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INGLEWOOD, CA 90302

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BAR SCALE

SHEET REVISION	DATE

ISSUE	DATE
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75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

PROJECT SPECIFIC DETAILS

SCALE: 1" = 1'-0"

S700

DATE

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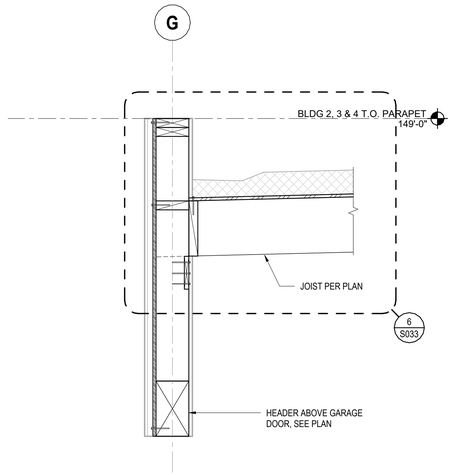

10 (BLDG 4 OVER GARAGE OPENING)
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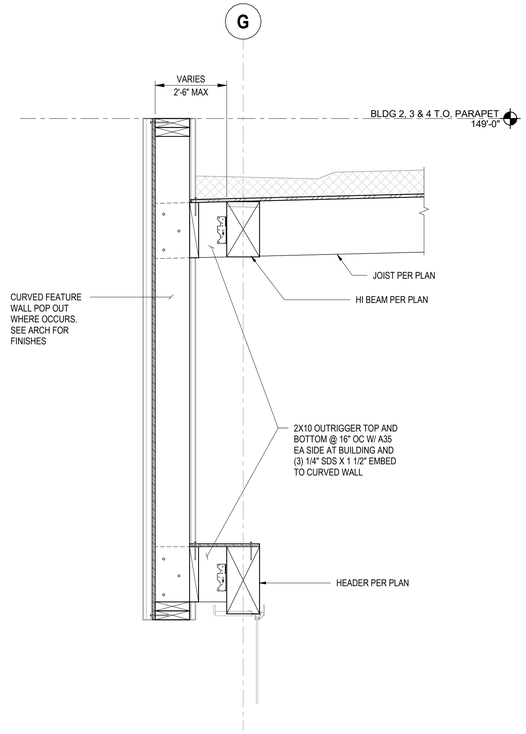
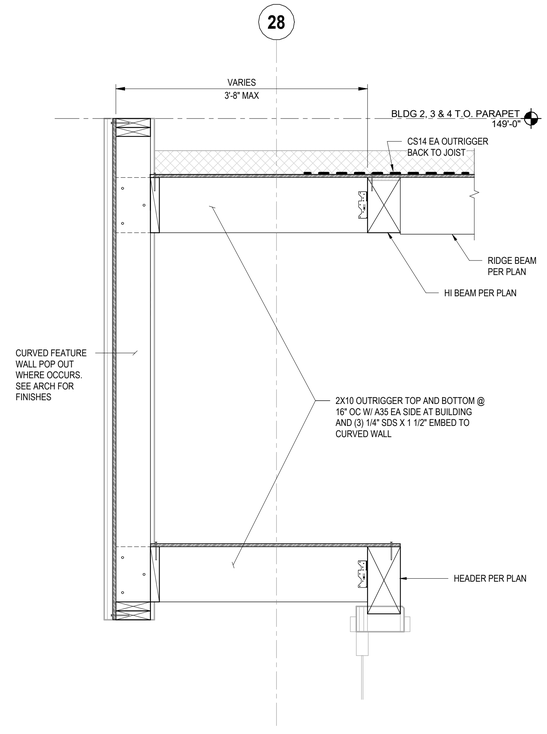
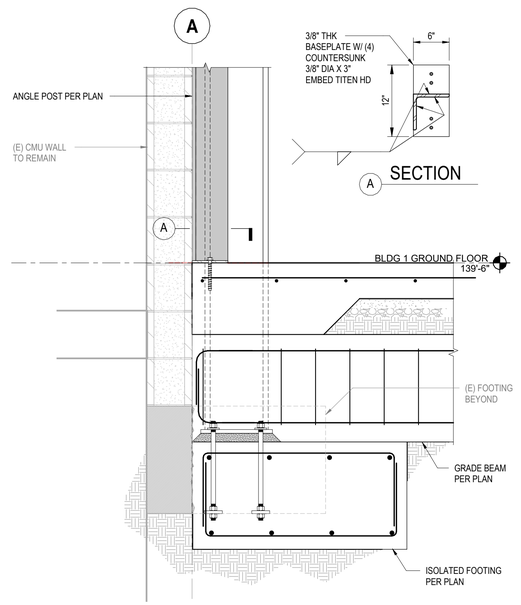


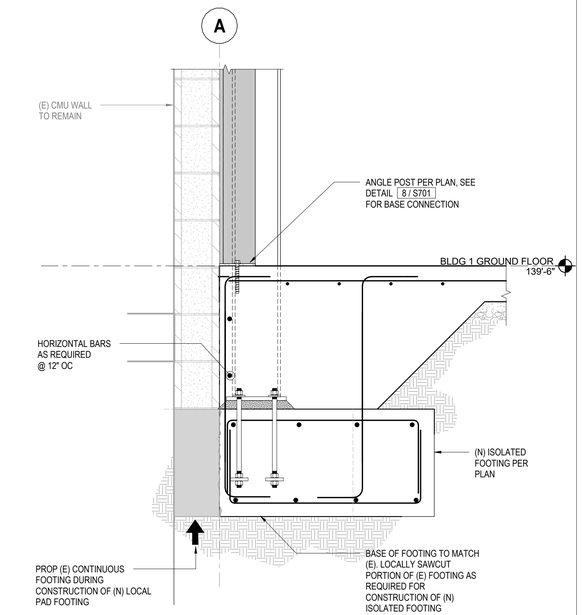
6 (BLDGS 2,3 & 4 WINDOW OPENING)
1" = 1'-0"



2 (BLDGS 2 & 3 OVER DOOR OPENING)
1" = 1'-0"



8 TYPICAL DEEP COLUMN FOOTING - BLDG 1
1" = 1'-0"



4 TYPICAL COLUMN FOOTING - BLDG 1
1" = 1'-0"

EDWARD VINCENT PARK MAINTENANCE FACILITY

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BAR SCALE

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60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025
ISSUE	**DATE**

PROJECT SPECIFIC DETAILS

SCALE: 1" = 1'-0"

S701

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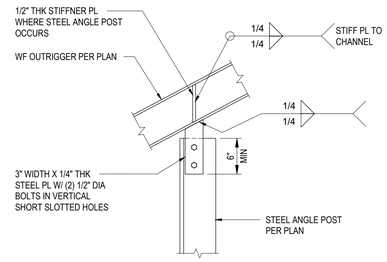
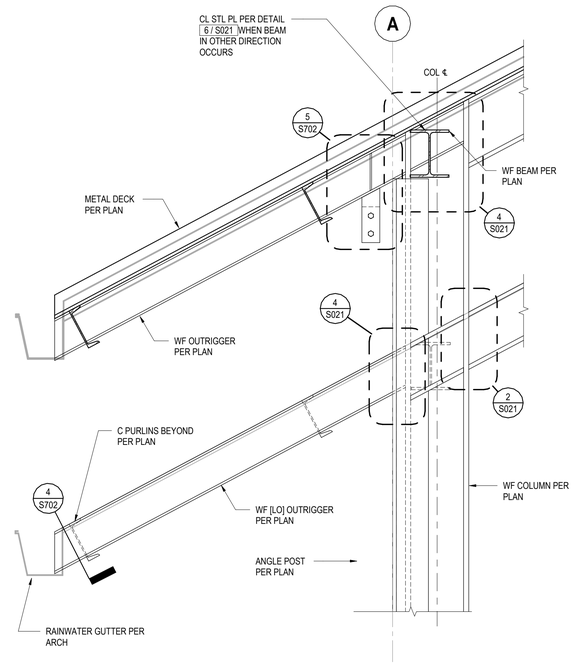


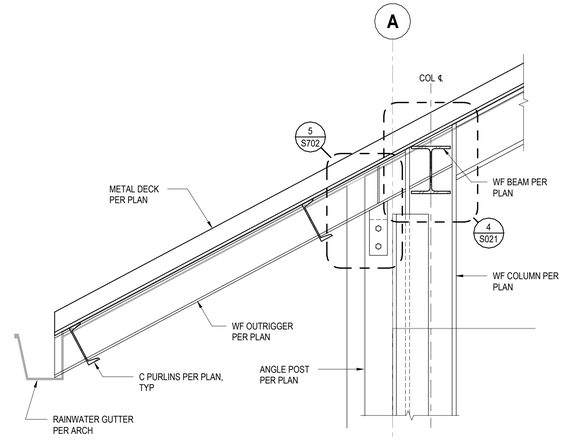
5 ANGLE POST CONNECTION TO OUTRIGGER

NOT TO SCALE



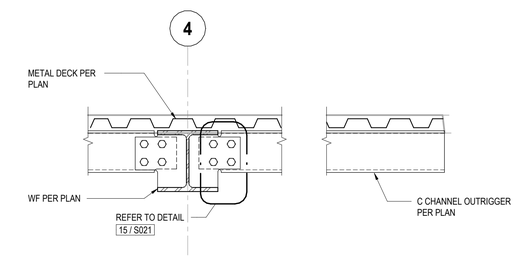
2 ROOF OVERHANG

1" = 1'-0"



3 LOW ROOF OVERHANG

1" = 1'-0"



4 C CHANNEL CONNECTION TO WF

1" = 1'-0"

EDWARD VINCENT PARK MAINTENANCE FACILITY

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40% PROGRESS DESIGN	04.15.2025

PROJECT SPECIFIC DETAILS

SCALE: 1" = 1'-0"

S702

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 1 of 17)**

Project Name:	**700 WARREN LANE - BUILDING 2**	**Date Prepared:**	**2025-11-10**

A. General Information

1	Project Name	700 WARREN LANE - BUILDING 2			
2	Run Title	Title 24 Analysis			
3	Project Location	700 WARREN LANE			
4	City	INGLEWOOD	5	Standards Version	Compliance 2022
6	Zip code	90302	7	Compliance Software (version)	EnergyPro 9.4
8	Climate Zone	8	9	Building Orientation (deg)	225
10	Building Type(s)	• Nonresidential	11	Weather File	FULLERTON_STYP20.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft^2)	2049	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft^2)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	2049	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 2 of 17)**

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance					**Building Components Complying Prescriptively**	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐ Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒ Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐ Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒ Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒ Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☐ Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒ Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐ Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒ Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 3 of 17)**

C1. COMPLIANCE SUMMARY

	COMPLIES[3]		
	Time Dependent Valuaton (TDV)		**Source Energy Use**
	Efficiency[1] (kBtu/ft² - yr)	**Total[2] (kBtu/ft² - yr)**	**Total[2] (kBtu/ft² - yr)**
Standard Design	266.07	266.07	19.71
Proposed Design	232.51	232.51	16.21
Compliance Margins	**33.56**	**33.56**	**3.5**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 4 of 17)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

	COMPLIES[2]		
Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Space Heating	5.03	13.06	-8.03
Space Cooling	79.13	82.56	-3.43
Indoor Fans	120.71	69.89	50.82
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	30.01	32.93	-2.92
Indoor Lighting	31.19	34.07	-2.88
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**266.07**	**232.51**	**33.56 (12.6%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**266.07**	**232.51**	**33.56 (12.6%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 5 of 17)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Receptacle	74.23	74.23	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**340.3**	**306.74**	**33.56 (9.9%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 6 of 17)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

	COMPLIES[2]		
Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[1]**
Space Heating	0.72	1.87	-1.15
Space Cooling	2.9	2.63	0.27
Indoor Fans	11.22	6.51	4.71
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.53	2.64	-0.11
Indoor Lighting	2.34	2.56	-0.22
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**19.71**	**16.21**	**3.5 (17.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**19.71**	**16.21**	**3.5 (17.8%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 7 of 17)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[1]**
Receptacle	5.16	5.16	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**24.87**	**21.37**	**3.5 (14.1%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 8 of 17)**

C7. ENERGY USE SUMMARY

Energy Component	**Standard Design Site (MWh)**	**Proposed Design Site (MWh)**	**Margin (MWh)**	**Standard Design Site (MBtu)**	**Proposed Design Site (MBtu)**	**Margin (MBtu)**
Space Heating	0.3	0.8	-0.5	---	---	---
Space Cooling	4.7	4	0.7	---	---	---
Indoor Fans	8.6	5	3.6	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	2.3	2.6	-0.3	0.3	---	---
Indoor Lighting	2.5	2.7	-0.2	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**18.4**	**15.1**	**3.3**	**0.3**	**0**	**0.3**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**18.4**	**15.1**	**3.3**	**0.3**	**0**	**0.3**
Receptacle	6	6	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**24.4**	**21.1**	**3.3**	**0.3**	**0**	**0.3**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 9 of 17)**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	**Proposed Design (kBtu/ft² / yr)**	**Margin (kBtu/ft² / yr)**	**Margin Percentage**
GROSS EUI[1]	40.78	35.14	5.64	13.83
NET EUI[1]	40.78	35.14	5.64	13.83

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• DesignedOccupancyUsedForCalculatingVentilation
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	**02**	**03**	**04**
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
North-Facing[1]	0	0	0
East-Facing[2]	1116	90.37	8.1
South-Facing[3]	740	78.77	10.64

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),
[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),
[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),
[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

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VINCENT PARK MAINTENANCE FACILITY

VPF 230309

700 Warren Lane
Inglewood, CA, 90302

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REGISTERED PROFESSIONAL ENGINEER — ANDREW STRAMMER — M21579 — MECHANICAL — STATE OF CALIFORNIA

EXP:6/30/27

BAR SCALE

⚠ MECHANCIAL REVISION 1	12.11.2025

SHEET REVISION	**DATE**

BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025
ISSUE	**DATE**

TITLE 24 (BUILDING 2)

SCALE: N.T.S.

EN001

DATE
2.18.2026

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 10 of 17)**

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
West-Facing[4]	850	90.37	10.63
Total	**2706**	**259.51**	**9.59**
Roof	2049	12.6	0.61

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),
[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),
[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),
[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	**Air Barrier**
Com-Floor 1	No air barrier

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 11 of 17)**

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	**Construction Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**		**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
					Interior	**Exterior**				
Slab On Grade9	Underground Floor	2,049	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-30 Roof Flat11	Roof	2,049	Wood	30	N/A	N/A	U-factor	0.034	AsphaltShingles0_25in Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-1 Gypsum Board - 1/2 in.	N
R-0 Wall13	Interior Wall	543	N/A	0	N/A	N/A	U-factor	0.3367	Stucco - 7/8 in., Vapor permeable felt - 1/8 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
R-21 Wall24	Exterior Wall	2,706	Wood	21	N/A	N/A	U-factor	0.0691	Stucco - 7/8 in., Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N

[1] Status: N - New, A - Altered, E - Existing

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	**Area (ft²)**	**Overall U-factor**	**Status[1]**
Metal Door29	21.9	0.7	N

[1] Status: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 12 of 17)**

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	**Fenestration Type/ Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area (ft²)**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
LowE Wind.	Vertical fenestration Curtain Wall N/A	NFRC	Manufactured	223.26	0.47	0.28	0.5	N
LowE Door	Vertical fenestration Glazed door N/A	NFRC	Manufactured	36.25	0.47	0.28	0.5	N
LowE Skylight	Skylight Fixed window N/A	NFRC	Manufactured	12.6	0.55	0.31	0.5	N

[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A - Altered, E - Existing

G8. OVERHANG DETAILS

01	02	03	04	05	06	07
Fenestration Tag/ ID	**Azimuth**	**Depth (ft)**	**Height from Top of Sill to Overhang (ft)**	**Right Extent (ft)**	**Left Extent (ft)**	**Flap Height**
Wind./Side46	270	2	7.35	2	2	N/A
Wind.48	0	2.5	7.35	2.5	2.5	N/A
200 - Swing. Glass Door49	0	2.5	7.35	2.5	2.5	N/A
Wind.50	0	2.5	7.35	2.5	2.5	N/A
Wind./Side54	90	2	7.35	2	2	N/A

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 13 of 17)**

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	**Equipment Type**	**Qty**	**Heating**				**Cooling**			**Economizer Type (if present)**	**Status[1]**
			Total Heating Output (kBtu/h)	**Supp Heat Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**		
HP1- Building 2	Single Zone Heat Pump (SZHP) Air System	1	50	0	HSPF2	9.5	48	EER2 SEER2	8.4 17	No Economizer	N
HP2- Building 2	Single Zone Heat Pump (SZHP) Air System	1	50	0	HSPF2	9.5	48	EER2 SEER2	8.4 17	No Economizer	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	**Qty**	**Design OA CFM**	**Supply Fan**				**Return / Relief Fan**					**Status[1]**
			CFM	**Power**	**Power Units**	**Control**	**Fan Type**	**CFM**	**Power**	**Power Units**	**Control**	
HP1- Building 2	1	75.75	1,600	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HP2- Building 2	1	645	1,600	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 14 of 17)**

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	**Zone Name**	**Qty**	**CFM**	**Power**	**Power Units**	**Continuous Operation?**	**Status[1]**
1st Fl/Restrooms 1 and 23-EF	1-1st Fl/Restrooms 1 and 2	2	80	0.01	BHP	No	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	**Equipment Type**	**Interlocks per 140.4(n)[1]**	**Other Special Features and Controls**
EWH/2.1 2.2 and 2.3 - E11 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	**Mechanical Ventilation**				**Conditioned Area (sf)**	**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# of People**	**Supply OA CFM**	**Exhaust CFM**		
1-1st Fl/Restrooms 1 and 2	Exhaust - Toilets, private General - Break rooms General - Corridors	5.75	75.75	160	840	N/A
2-1st Fl /Office small	Office - Office space	43	645	0	1209	N/A

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 15 of 17)**

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	**System Type**	**Qty**	**Rated Capacity (kBtu/h)**		**Airflow (cfm)**			**Fan**			**VSD**
			Heating	**Cooling**	**Design**	**Min.**	**Min. Ratio**	**Power**	**Power Units**	**Cycles**	
1-1st Fl/Restrooms 1 and 2-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
2-1st Fl /Office small-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐

I1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	**Heater Element Type**	**Tank Type**	**Qty**	**Tank Vol (gal)**	**Rated Input**	**Rated Input Unit**	**Efficiency**	**Efficiency Unit**	**Tank Insulation R-value Int/Ext**	**Standby Loss Fraction**	**1st Hr. Rating or Flow Rate (gal)**	**Heat Pump Type**	**Tank Location or Ambient Condition**
Instantaneous Electric2	Electricity	Instantaneous	3	1.6	1.52	kW	0.93	UEF	N/A	N/A	8	N/A	N/A

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 16 of 17)**

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title & System Name(s)
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	HP1- Building 2 and HP2- Building 2.
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
	HP1- Building 2 and HP2- Building 2.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 17 of 17)**

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Milos Sojic	Documentation Author Signature: Milos Sojic
Company: Shamim Engineering	Signature Date:
Address: 21700 W. Oxnard St., Suite 870	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Woodland Hills, CA 91367	Phone: (818) 788-6778 ext. 110

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name:	Responsible Designer Signature:	
Company: hansonLA		
Address: 13160 Mindanao Way, Suite 219	Date Signed:	
City/State/Zip: Marina Del Rey, CA 90292	License #:	
Phone: (213) 880-8515	Title:	Scope:
Responsible Designer Name: Mark Shamim	Responsible Designer Signature:	
Company: Shamim Engineering Group, Inc.		
Address: 21700 W. Oxnard St., Suite 870	Date Signed: 2025-11-11	
City/State/Zip: Woodland Hills, CA 91367	License #: M21579	
Phone: (818) 788-6778	Title:	Scope:

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

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Inglewood, CA 90302

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REGISTERED PROFESSIONAL ENGINEER — PROUD STRATA — M21579 — MECHANICAL — STATE OF CALIFORNIA

EXP:6/30/27

BAR SCALE

⚠ MECHANICAL REVISION 1	12.11.2025

SHEET REVISION — **DATE**

BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

ISSUE — **DATE**

TITLE 24 (BUILDING 2)

SCALE: N.T.S.

EN002

DATE
2.18.2026

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 1 of 17)

Project Name:	700 WARREN LANE - BUILDING 3	Date Prepared:	2025-11-10

A. General Information

1	Project Name	700 WARREN LANE - BUILDING 3			
2	Run Title	Title 24 Analysis			
3	Project Location	700 WARREN LANE			
4	City	INGLEWOOD	5	Standards Version	Compliance 2022
6	Zip code	90302	7	Compliance Software (version)	EnergyPro 9.4
8	Climate Zone	8	9	Building Orientation (deg)	55
10	Building Type(s)	• Nonresidential	11	Weather File	FULLERTON_STYP20.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	2049	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	2049	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 2 of 17)

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐ Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒ Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐ Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒ Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒ Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☐ Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒ Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐ Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒ Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 3 of 17)

C1. COMPLIANCE SUMMARY

	COMPLIES[3]		
	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	259.21	259.21	19.36
Proposed Design	229.69	229.69	16.19
Compliance Margins	**29.52**	**29.52**	**3.17**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 4 of 17)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

	COMPLIES[2]		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	5.87	13.89	-8.02
Space Cooling	74.31	78.89	-4.58
Indoor Fans	117.83	69.91	47.92
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	30.01	32.93	-2.92
Indoor Lighting	31.19	34.07	-2.88
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**259.21**	**229.69**	**29.52 (11.4%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**259.21**	**229.69**	**29.52 (11.4%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 5 of 17)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	74.23	74.23	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**333.44**	**303.92**	**29.52 (8.9%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 6 of 17)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

	COMPLIES[2]		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	0.84	2	-1.16
Space Cooling	2.69	2.47	0.22
Indoor Fans	10.96	6.52	4.44
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.53	2.64	-0.11
Indoor Lighting	2.34	2.56	-0.22
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**19.36**	**16.19**	**3.17 (16.4%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**19.36**	**16.19**	**3.17 (16.4%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 7 of 17)

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	5.16	5.16	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**24.52**	**21.35**	**3.17 (12.9%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 8 of 17)

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.3	0.9	-0.6	---	---	---
Space Cooling	4.4	3.8	0.6	---	---	---
Indoor Fans	8.4	5	3.4	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	2.3	2.6	-0.3	0.3	---	---
Indoor Lighting	2.5	2.7	-0.2	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**17.9**	**15**	**2.9**	**0.3**	**0**	**0.3**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**17.9**	**15**	**2.9**	**0.3**	**0**	**0.3**
Receptacle	6	6	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**23.9**	**21**	**2.9**	**0.3**	**0**	**0.3**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 9 of 17)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	39.94	34.97	4.97	12.44
NET EUI[1]	39.94	34.97	4.97	12.44

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• DesignedOccupancyUsedForCalculatingVentilation
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	1116	90.37	8.1
East-Facing[2]	370	60.89	16.46
South-Facing[3]	850	90.37	10.63

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),
[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),
[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),
[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

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VINCENT PARK MAINTENANCE FACILITY

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REGISTERED PROFESSIONAL ENGINEER — ARSHROD SHAMIM — M21579 — MECHANICAL — STATE OF CALIFORNIA

EXP:6/30/27

BAR SCALE

⚠ MECHANICAL REVISION 1	12.11.2025

SHEET REVISION	DATE
BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025
ISSUE	**DATE**

TITLE 24 (BUILDING 3

SCALE: N.T.S.

EN003

DATE
2.18.2026

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 10 of 17)**

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
West-Facing[4]	370	17.88	4.83
Total	**2706**	**259.51**	**9.59**
Roof	2049	12.6	0.61

Notes
[1]*North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),*
[2]*East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),*
[3]*South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),*
[4]*West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),*

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	**Air Barrier**
Com-Floor 1	No air barrier

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 11 of 17)**

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	**Construction Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**		**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
					Interior	**Exterior**				
Slab On Grade9	Underground Floor	2,049	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-30 Roof Flat11	Roof	2,049	Wood	30	N/A	N/A	U-factor	0.034	AsphaltShingles0_25in Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-1 Gypsum Board - 1/2 in.	N
R-0 Wall13	Interior Wall	543	N/A	0	N/A	N/A	U-factor	0.3367	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
R-21 Wall24	Exterior Wall	2,706	Wood	21	N/A	N/A	U-factor	0.0691	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	**Area (ft²)**	**Overall U-factor**	**Status[1]**
Metal Door29	21.9	0.7	N

[1] *Status: N - New, A - Altered, E - Existing*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 12 of 17)**

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	**Fenestration Type/ Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area (ft²)**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
LowE Wind.	Vertical fenestration Curtain Wall N/A	NFRC	Manufactured	223.26	0.47	0.28	0.5	N
LowE Door	Vertical fenestration Glazed door N/A	NFRC	Manufactured	36.25	0.47	0.28	0.5	N
LowE Skylight	Skylight Fixed window N/A	NFRC	Manufactured	12.6	0.55	0.31	0.5	N

[1] *Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*

G8. OVERHANG DETAILS

01	02	03	04	05	06	07
Fenestration Tag/ ID	**Azimuth**	**Depth (ft)**	**Height from Top of Sill to Overhang (ft)**	**Right Extent (ft)**	**Left Extent (ft)**	**Flap Height**
Wind./Side46	270	2	7.35	2	2	N/A
Wind.48	0	2.5	7.35	2.5	2.5	N/A
Wind.50	0	2.5	7.35	2.5	2.5	N/A
Wind./Side54	90	2	7.35	2	2	N/A

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 13 of 17)**

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	**Equipment Type**	**Qty**	**Heating**				**Cooling**			**Economizer Type (if present)**	**Status[1]**
			Total Heating Output (kBtu/h)	**Supp Heat Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**		
HP1- Building 3	Single Zone Heat Pump (SZHP) Air System	1	50	0	HSPF2	9.5	48	EER2 SEER2	8.4 17	No Economizer	N
HP2- Building 3	Single Zone Heat Pump (SZHP) Air System	1	50	0	HSPF2	9.5	48	EER2 SEER2	8.4 17	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	**Qty**	**Design OA CFM**	**Supply Fan**				**Return / Relief Fan**					**Status[1]**
			CFM	**Power**	**Power Units**	**Control**	**Fan Type**	**CFM**	**Power**	**Power Units**	**Control**	
HP1- Building 3	1	75.75	1,600	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HP2- Building 3	1	645	1,600	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 14 of 17)**

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	**Zone Name**	**Qty**	**CFM**	**Power**	**Power Units**	**Continuous Operation?**	**Status[1]**
1st Fl/Restrooms 1 and 23-EF	1-1st Fl/Restrooms 1 and 2	2	80	0.01	BHP	No	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	**Equipment Type**	**Interlocks per 140.4(n)[1]**	**Other Special Features and Controls**
EWH/3.1 3.2 and 3.3 - E11 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	**Mechanical Ventilation**				**Conditioned Area (sf)**	**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# of People**	**Supply OA CFM**	**Exhaust CFM**		
1-1st Fl/Restrooms 1 and 2	Exhaust - Toilets, private General - Break rooms General - Corridors	5.75	75.75	160	840	N/A
2-1st Fl /Office small	Office - Office space	43	645	0	1209	N/A

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 15 of 17)**

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	**System Type**	**Qty**	**Rated Capacity (kBtu/h)**		**Airflow (cfm)**			**Fan**			**VSD**
			Heating	**Cooling**	**Design**	**Min.**	**Min. Ratio**	**Power**	**Power Units**	**Cycles**	
1-1st Fl/Restrooms 1 and 2-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
2-1st Fl /Office small-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐

I1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	**Heater Element Type**	**Tank Type**	**Qty**	**Tank Vol (gal)**	**Rated Input**	**Rated Input Unit**	**Efficiency**	**Efficiency Unit**	**Tank Insulation R-value Int/Ext**	**Standby Loss Fraction**	**1st Hr. Rating or Flow Rate (gal)**	**Heat Pump Type**	**Tank Location or Ambient Condition**
Instantaneous Electric2	Electricity	Instantaneous	3	1.6	1.52	kW	0.93	UEF	N/A	N/A	8	N/A	N/A

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 16 of 17)**

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title & System Name(s)
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	HP1- Building 3 and HP2- Building 3.
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
	HP1- Building 3 and HP2- Building 3.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 17 of 17)**

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Milos Sojic	Documentation Author Signature: Milos Sojic
Company: Shamim Engineering	Signature Date:
Address: 21700 W. Oxnard St., Suite 870	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Woodland Hills, CA 91367	Phone: (818) 788-6778 ext. 110

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name:	Responsible Designer Signature:	
Company: hansonLA		
Address: 13160 Mindanao Way, Suite 219	Date Signed:	
City/State/Zip: Marina Del Rey, CA 90292	License #:	
Phone: (213) 880-8515	Title:	Scope:
Responsible Designer Name: Mark Shamim	Responsible Designer Signature:	
Company: Shamim Engineering Group, Inc.		
Address: 21700 W. Oxnard St., Suite 870	Date Signed: 2025-11-11	
City/State/Zip: Woodland Hills, CA 91367	License #: M21579	
Phone: (818) 788-6778	Title:	Scope:

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

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REGISTERED PROFESSIONAL ENGINEER — PROUD STRATA — M21579 — MECHANICAL — STATE OF CALIFORNIA

EXP:6/30/27

BAR SCALE

⚠ MECHANICAL REVISION 1	12.11.2025

SHEET REVISION — **DATE**

BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

ISSUE — **DATE**

TITLE 24 (BUILDING 3)

SCALE: N.T.S.

EN004

DATE
2.18.2026

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H.V.A.C. LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		DUCT RISER
		DUCT DROP
		DUCT SECTION (SUPPLY)
		DUCT SECTION (RETURN)
		DUCT SECTION (EXHAUST)
	C.D.	CEILING DIFFUSER
	R.A.R.	RETURN AIR REGISTER
	E.G.	EXAUST AIR GRILLE
	S.W.S.	SIDE WALL SUPPLY
	S.W.R.	SIDE WALL RETURN
	S.W.E.	SIDE WALL EXHAUST
	R.G.	RELIEF GRILLE
	M.V.D.	MANUAL VOLUME DAMPER
	B.D.D	BACK DRAFT DAMPER
	A.V.D.	AUTOMATIC VOLUME DAMPER
	D.L.	DOOR LOUVER
T	STAT	ROOM THERMOSTAT
	D.H.	DUCT HEATER
	U.C.	UNDER-CUT
CWS	C.W.S.	COND. WATER SUPPLY
CWR	C.W.R.	COND. WATER RETURN
HWS	H.W.S.	HOT WATER SUPPLY
HWR	H.W.R.	HOT WATER RETURN
CHWS	CH.W.S.	CHILLED WATER SUPPLY
CHWR	CH.W.R.	CHILLED WATER RETURN
		DIRECTION OF FLOW
	G.V.	GATE VALVE
	B.V.	BUTTERFLY VALVE
	RED.	REDUCER
	STR.	STRAINER
	U	UNION
	P.G.	PRESSURE GAUGE
	A.D.	ACCESS DOOR
	A.P.	ACCESS PANEL
	S.A.	SUPPLY AIR
	R.A.	RETURN AIR
	E.A.	EXHAUST AIR
	C.A.	COMBUSTION AIR
	O.S.A.	OUTSIDE AIR
	DN.	DOWN
	CLG.	CEILING
	S.W.S.	SIDEWALL SUPPLY
	S.W.R.	SIDEWALL RETURN
	N.C.	NORMALLY CLOSED
	N.O.	NORMALLY OPEN
	N.I.C.	NOT IN CONTRACT
	P.O.C.	POINT OF CONNECTION
	G.C.	GENERAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	E.C.	ELECTRICAL CONTRACTOR
	U.T.R.	UP THRU ROOF
		FLEX. CONN. IN DUCT
		TURNING VANES
		EXTRACTORS
		FURN. & INST. BY ELEC.
		FURN. & INST. BY MECH.
		EXPANSION VALVE
	C.A.	CONTROL AIR
		DUCT LINING
	M.C.A.	MAX. CIRCUIT AMPACITY
	T.S.P.	TOTAL STATIC PRESSURE
	F.L.A.	FULL LOAD AMP
	B.D.D.	BACK DRAFT DAMPER
	M.BH	THOUSAND BTUH
	E.R.	EXHAUST REGISTER
	SFD	SMOKE AND FIRE DAMPER
	SD	SMOKE DUCT DETECTOR
		POINT OF CONNECTION
T		THERMOSTAT SENSOR
	FSD	FLOOR SUPPLY DIFFUSER
	FRD	FLOOR RETURN DIFFUSER
	LSD	LINEAR SLOT SUPPLY DIFFUSER
	LRD	LINEAR SLOT RETURN DIFFUSER
	O.B.D	OPPOSED BLADE DAMPER

SHEET INDEX

SHEET NO.	DESCRIPTION
M001	SCHEDULES, NOTES, & LEGEND
M101	SCHEDULES, NOTES, & LEGEND
M100	SITE PLAN
M200	FLOOR PLAN & ROOF PLAN (BUILDING 1-WORKSHOP)
M201	FLOOR PLAN & ROOF PLAN (BUILDING 2&3-OFFICE)
M202	FLOOR PLAN & ROOF PLAN (BUILDING 4-STORAGE)
M300	DETAILS

SPLIT HEAT PUMP SCHEDULE

INDOOR UNIT

NO	MAKE & MODEL	SERVING	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	CFM	ESP	V	ø	HZ	MCA	MOP	WT (LBS)	OSA CFM	INDOOR POWERED BY OUTDOOR
FC 1	MITSUBISHI PEFY-L48NMAU-A	SEE PLAN	48,000	54,000	1600	0.25"	208/230	1	60	3.38	15	90	195	NO
FC 2	MITSUBISHI PEFY-L48NMAU-A	SEE PLAN	48,000	54,000	1600	0.25"	208/230	1	60	3.38	15	90	190	NO
FC 3	MITSUBISHI PEFY-L48NMAU-A	SEE PLAN	48,000	54,000	1600	0.25"	208/230	1	60	3.38	15	90	195	NO
FC 4	MITSUBISHI PEFY-L48NMAU-A	SEE PLAN	48,000	54,000	1600	0.25"	208/230	1	60	3.38	15	90	190	NO

CONDENSING UNIT

NO.	MAKE & MODEL	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	LOW HEAT (17°)	SEER2	EER2	HSPF2	V	ø	HZ	COMP. RLA	FAN MOTOR OUTPUT	MCA (A) 208/230	MOP (A) 208/230	WT. (LBS)	LINESET SIZE	MAX. LENGTH (FT.)	MAX. HEIGHT (FT.)	REFRIGERANT TYPE	REFRIGERANT AMOUNT (IBS)
HP 1	MITSUBISHI MXZ-SM48NL	48,000	50,000	33,400	17	8.4	9.5	208/230	1	60	–	70 WATTS + 70 WATTS	36	64	270	⑨⑩	⑧	⑧	R454B	–
HP 2	MITSUBISHI MXZ-SM48NL	48,000	50,000	33,400	17	8.4	9.5	208/230	1	60	–	70 WATTS + 70 WATTS	36	64	270	⑨⑩	⑧	⑧	R454B	–
HP 3	MITSUBISHI MXZ-SM48NL	48,000	50,000	33,400	17	8.4	9.5	208/230	1	60	–	70 WATTS + 70 WATTS	36	64	270	⑨⑩	⑧	⑧	R454B	–
HP 4	MITSUBISHI MXZ-SM48NL	48,000	50,000	33,400	17	8.4	9.5	208/230	1	60	–	70 WATTS + 70 WATTS	36	64	270	⑨⑩	⑧	⑧	R454B	–

REMARKS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1. PROGRAMMABLE WIFI CAPABLE THERMOSTAT.
2. SELF DIAGNOSIS SETTING.
3. MERV-13 FILTER BOX FROM MANUFACTURE OR FLANDERS MERV-13 FILTER FOR DUCTED UNITS.
4. MANUFACTURE TO PROVIDE CONDENSATE PUMP POWERED BY INDOOR UNITS.
5. REFRIGERANT ISOLATION BALL VALVES AT EACH FAN COIL, RATED FOR R32 AND WITH "0" PRESSURE DROP.
6. VIBREX SPRING VIBRATION ISOLATOR FOR INDOOR AND OUTDOOR UNIT.
7. CONTRACTOR TO VERIFY THIRD PARTY COMPATIBILITY WITH SMART SYSTEM AND TO ORDER CENTRALIZED INTEGRATION FOR BACNET. (IF APPLICABLE)
8. CONTRACTOR TO VERIFY SYSTEM FALLS WITHIN MAX LENGTH AND MAX HEIGHT PRIOR TO ORDER AND INSTALL.
9. CONTRACTOR TO VERIFY LINESET SIZE PER MANUFACTURE PIPING DIAGRAM PRIOR TO ORDER AND INSTALL.
10. REFRIGERATION PIPE SIZES SHALL BE COORDINATED WITH MANUFACTURE BASED ON EXACT REFRIGERATION PIPE LENGTHS AND ELBOWS IN THE SYSTEM.
11. VERIFY EXACT AVAILABLE VOLTAGE & PHASE, W/ ELECTRICAL CONTRACTOR PRIOR TO ORDERING THE AC UNITS, ELECTRICIAN TO VERIFY WITH SUBMITTAL FOR FUSE SIZE & FEEDER SIZE.
12. ELECTRICIAN TO VERIFY WITH MANUFACTURER ELECTRICAL LOADS AND CONNECTIONS.
13. CONTRACTOR SHALL OBTAIN APPROVAL FROM MANUFACTURE IF REFRIGERATION PIPE IS RAN UNDERGROUND IN ORDER TO PREVENT WARRANTY BEING VOIDED.
14. CONTRACTOR SHALL PROVIDE REFRIGERATION LONG RUN APPLICATION FOR UNITS WITH EXTENDED REFRIGERATION PIPE BEYOND MANUFACTURE RECOMMENDATIONS. COORDINATE W/ MANUFACTURE FOR ADDITION OF VALVE, PIPE SIZE, AND ADDITIONAL REQUIRED EQUIPMENTS.
15. W/ DISCONNECT SWITCH.
16. INTERFACE FANCOIL UNIT SYSTEMS AND BUILDING AUTOMATION SYSTEM USING THE MITSUBISHI CENTRALIZED CONTROLLER AE-C400A. SEE SHEET M302 FOR SPECIFICATION. INSTALL PER MANUFACTURE GUIDELINES AND REQUIREMENTS. ⚠1

EXHAUST FAN SCHEDULE

NO	MAKE	MODEL	CFM	S.P	V	ø	HZ	POWER	MCA	MOP	WT. (LBS)	FEI	SERIVCE	REMARKS
EF 1	PANASONIC	WHISPERGREEN FV-1115VK2	80	0.25"	120	1	60	0.24 AMPS	–	–	20	–	BATHROOM EXHAUST	ENERGY STAR AND UL COMPLIANT EXHAUST FAN, W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, LESS OR EQUAL TO 1 SONE, CONTROLLED BY LIGHT SWITCH AND MOTION SENSOR.
EF 2	GREENHECK	GB-120-4	900	0.25"	115	1	60	1/4 HP	7.25	15	80	–	CHEM/PAINT STORAGE	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION. SPARK B CONSTRUCTION, W/ EXPLOSION PROOF MOTOR AND HI-PRO POLYESTER COATING.
EF 3	GREENHECK	G-095-VG	700	0.25"	115	1	60	1/6 HP	3.5	15	50	–	STORAGE	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION.
EF 4	GREENHECK	G-095-VG	300	0.25"	115	1	60	1/6 HP	3.5	15	50	–	WOOD SHOP	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION.
EF 5	GREENHECK	GB-180	2500	0.25"	115	1	60	1/3 HP	9	15	140	–	WORKSHOP	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION.
EF 6	GREENHECK	GB-180-3	2000	0.25"	115	1	60	1/3 HP	9	20	120	–	GRAFFITI DEPT.	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION. SPARK B CONSTRUCTION, W/ EXPLOSION PROOF MOTOR AND HI-PRO POLYESTER COATING.
EF 7	GREENHECK	G-095-VG	385	0.25"	115	1	60	1/6 HP	3.5	15	50	–	BUILDING 2 RELIEF	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION.
EF 8	GREENHECK	G-095-VG	385	0.25"	115	1	60	1/6 HP	3.5	15	50	–	BUILDING 3 RELIEF	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION.
EF 9	GREENHECK	CUE-160-VG	2000	0.5"	115	1	60	1/2 HP	5	15	50	–	BUILDING 4 EXHAUST	W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, W/ SPRING VIBRATION ISOLATOR, FAN ON 24-HOUR OPERATION.

FAN SCHEDULE

NO	MAKE	MODEL	V	ø	HZ	POWER	FAN DIAMETER	WT. (LBS)	SERIVCE	REMARKS
F 1	BIG ASS FANS	BASIC 6	240	1	60	1 HP	12'-0"	200	VEHICLE EQUIPMENT	INSTALL EQUIPMENT PER MANUFACTURE GUIDELINES.
F 2	BIG ASS FANS	BASIC 6	240	1	60	1 HP	12'-0"	200	VEHICLE EQUIPMENT	INSTALL EQUIPMENT PER MANUFACTURE GUIDELINES.
F 3	BIG ASS FANS	BASIC 6	240	1	60	1 HP	8'-0"	124	GRAFFITI DEPT.	INSTALL EQUIPMENT PER MANUFACTURE GUIDELINES.

1. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURE BEFORE ORDERING.
2. BOTTOM OF FANS SHALL BE AT LEAST 10' AFF. (EXCLUDING HAIKU)
3. FANS SHALL BE AT LEAST 2' AWAY, IN ALL DIRECTIONS, FROM POSSIBLE OBSTRUCTIONS.
4. FANS SHALL NOT BE MOUNTED WITHIN TWO TIMES THE FAN DIAMETER OF EXHAUST OR RETURN AIR INTAKES, AND SHALL NOT BE IN DIRECT LINE OF DISCHARGE OF HVAC EQUIPMENT
5. EXTENSION TUBES 4' OR LONGER SHALL BE INSTALLED WITH GUY WIRES PER MANUFACTURE'S INSTALLATION REQUIREMENTS. (EXCLUDING HAIKU)
6. FANS SHALL BE AT THE SAME LEVEL OR HIGHER THAN RADIANT HEATERS AND OUTSIDE THE MINIMUM CLEARANCE TO COMBUSTIBLES.
7. FANS SHALL BE AT LEAST TWO AND ONE-HALF TIMES THE DIAMETER OF THE LARGEST FAN AWAY FROM NEIGHBORING FANS.

DUST COLLECTOR SCHEDULE

NO	MAKE	MODEL	CFM	S.P	V	ø	POWER	WT. (LBS)	SERIVCE	REMARKS
DC 1	POWERMATIC	PM1300TX-CK	1300	11.31	230	1	1-3/4 HP	200	WOODSHOP	INSTALL EQUIPMENT AND DUCT WORK TYPE PER MANUFACTURE GUIDELINES. VERIFY SIZE AND PERFORMANCE PER OPERATION REQUIRED BY OWNER.

OUTDOOR AIR CALCULATION (BASED ON 2022 CALIFORNIA MECHANICAL CODE AND 2022 BUILDING ENERGY EFFICIENCY STANDARDS)

ROOM DESIGNATION	AREA (FT2) (Az)	2022 CALIFORNIA MECHANICAL CODE (TABLE 403.2.1) Vbz = Rp•Pz + Ra•Az AND Voz=Vbz/Ez									2022 BUILDING ENERGY EFFICIENCY STANDARD (TABLE 120.1-A)		DESIGN OSA (CFM)
		DEFAULT OCCUPANCY DENSITY (PEOPLE/1000 FT2)	CFM/ SQ. FT. (Ra)	OCCUPANTS (Pz)	CFM/ PERSON (Rp)	OUTSIDE AIR CFM (AREA BASIS)	OUTSIDE AIR CFM (OCCUPANCY BASIS)	TOTAL OUTSIDE AIR (AREA+OCCUPANCY) (Vbz)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	**ZONE OUTDOOR AIR FLOW (Voz=Vbz/Ez)**	CFM/ SQ. FT.	**OUTSIDE AIR CFM (AREA BASIS)**	
BUILDING 2 OFFICE AREA	1,100.00	5	0.06	5.50	5	66	28	94	1	**94**	0.15	**165**	**165**
BUILDING 2 HALLWAY	216.00	5	0.06	1.08	5	13	5	18	1	**18**	0.15	**32**	**35**
BUILDING 2 BREAK ROOM	290.00	25	0.06	7.25	5	17	36	54	1	**54**	0.5	**145**	**145**
BUILDING 2 ELECTRICAL ROOM	20.00	2	0.06	0.04	5	1	0	1	1	**1**	0.15	**3**	**5**
BUILDING 2 STORAGE	188.00	2	0.06	0.38	5	11	2	13	1	**13**	0.15	**28**	**30**
BUILDING 3 OFFICE AREA	1,100.00	5	0.06	5.50	5	66	28	94	1	**94**	0.15	**165**	**165**
BUILDING 3 HALLWAY	216.00	5	0.06	1.08	5	13	5	18	1	**18**	0.15	**32**	**35**
BUILDING 3 STORAGE	188.00	2	0.06	0.38	5	11	2	13	1	**13**	0.15	**28**	**30**
BUILDING 2 ELECTRICAL ROOM	20.00	2	0.06	0.04	5	1	0	1	1	**1**	0.15	**3**	**5**
BUILDING 3 BREAKROOM	290.00	25	0.06	7.25	5	17	36	54	1	**54**	0.5	**145**	**145**

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STATE OF CALIFORNIA
EXP:6/30/27

BAR SCALE

⚠ MECHANICAL REVISION 1 — 12.11.2025

SHEET REVISION — DATE

ISSUE	DATE
BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

SCHEDULES, NOTES & LEGEND

SCALE: N.T.S.

M001

DATE
2.18.2026

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GENERAL NOTES:

1) CODES, RULES AND REGULATIONS– DESIGN OF SYSTEM:

1A) ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND CODES.

1B) WHEN THE DRAWINGS CALL FOR MATERIALS OR CONSTRUCTION OF A BETTER QUALITY OR LARGER SIZES THAN REQUIRED BY THE ABOVE MENTIONED CODES AND RULES, WORK SHALL BE AS SPECIFIED OR SHOWN RATHER THAN AS REQUIRED BY CODE. ALL ITEMS OR FEATURES OF THE MECHANICAL SYSTEMS REQUIRED BY CODE SHALL BE INCLUDED, EVEN THOUGH NOT SPECIFIED HEREIN.

1C) INSTALLATION OF THE SYSTEMS SHALL BE IN ACCORDANCE WITH THE ABOVE MENTIONED CODES AND REGULATIONS AND ALSO SHALL CONFORM TO GOOD, ACCEPTED MECHANICAL PRACTICES.

2) FLEXIBLE CONNECTIONS AT SUPPLY AND RETURN AIR OPENINGS OF ALL AIR CONDITIONING UNITS.

3) OBTAIN APPROVAL FROM ARCHITECT FOR ALL FLOOR REGISTERS AND SIDE WALL REGISTERS PRIOR TO PURCHASE.

4) COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS

5) COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS (DIFFUSERS AND REGISTERS) WITH APPROPRIATE ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) COLOR AS DIRECTED BY ARCHITECT.

6) PROVIDE DUCT LINING TO SUPPLY DUCT OF EACH AC UNIT FOR MINIMUM OF 10 FT. DUCT LINING TO BE EQUAL TO JOHNS–MANVILLE, 1" THICK x 1–1/2 PCF DENSITY DUCT LINER. DUCTWORK TO BE INCREASED IN EACH DIMENSION TO INCORPORATE THICKNESS OF LINING.

7) DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CHAPTER 6 OF THE UNIFORM MECHANICAL CODE.

8) WIRING DIAGRAM IS INTENDED TO INDICATE SEQUENCE OF CONTROL AND DOES NOT NECESSARILY SHOW ALL CONNECTIONS REQUIRED BY LOCAL CODES.

9) AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF SPACE TEMPERATURE SHALL BE CAPABLE OF BEING SET FROM 55 TO 85°F, AND HAVE THE ABILITY TO OPERATE THE HEATING AND COOLING IN SEQUENCE. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 10°F BETWEEN FULL HEATING AND FULL COOLING AND HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70°F, AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.

10) ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.

11) APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED IN PLACE.

12) PROVIDE SEISMIC BRACING FOR ALL MECHANICAL EQUIPMENT STRUCTURE MOUNTED, 400 LBS. OR HEAVIER.

13) A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE.

14) PROVIDE VOLUME DAMPER FOR ALL DUCT WORK BRANCHES.

15) PROVIDE CEILING & ROOF ACCESS FOR ALL CEILING & ROOF MOUNTED EQUIPMENT & VOLUME DAMPERS.

16) TRANSVERSE JOINTS FOR ALL AIR SUPPLY DUCTS INSTALLED WHERE AIR LEAKAGE WOULD BE NON–BENEFICIAL TO THE OCCUPIED AREA. TEMPERATURE REQUIREMENTS SHALL BE SEALED WITH CITY OF LOS ANGELES APPROVED MASTIC OR TAPE.

17) PROVIDE GALVANIZED SHEET METAL DUCTS FABRICATED AND INSTALLED TO UMC 2019 EDITION.

18) MAINTAIN 10' SEPARATION BETWEEN AIR INTAKE TO THE BUILDING AND ANY EXHAUST OR VENT.EXTEND THE OSA. IF REQUIRED.

19) PROVIDE FIRE DAMPER OR SMOKE FIRE DAMPER WHERE DUCT PENETRATES FIRE RATED CEILING OR WALL IF APPLICABLE.

20) THE PROJECT SHALL BE AIR BALANCED BY AN AIR BALANCE CONTRACTOR AND A COPY OF THE FINAL REPORT SHALL BE PRESENTED TO THE TENANT AND OWNER.

21) THE MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND FEES.

22) MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY EXISTING LOCATION OF ALL EQUIPMENT AND THEIR WORKING CONDITION PRIOR TO WORK. ANY DICREPANCY SHALL BE REPORTED TO ARCHITECT.

23) ENERGY CONSERVATION STANDARDS FOR NEW RESIDENTIAL BUILDINGS HAVE BEEN REVIEWED AND DESIGNED SUBSTANTIALLY CONFORMS TO THEM.

24) ALL DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL ENLARGE THE DUCT IN ORDER TO ACCOMODATE LINING INSIDE OF DUCT IF REQUIRED.

25) PRIOR TO ANY DUCT OR PIPING FABRICATION, EQUIPMENT INSTALLATION OR DUCT AND PIPE INSTALLATION, MECHANICAL CONTRACTOR SHALL COORDINATION WITH ALL OTHER TRADES AND CEILING CLEARANCES AND PROVIDE COMPLETE SHOP DRAWING. OBTAIN APPROVAL FOR SHOP DRAWING FROM ARCHITECT/ENGINEER. DUCT MAY BE RESIZED TO EQUIPMENT SIZES IN ORDER TO ACCOMMODATE AVAILABLE SPACE, VERIFY WITH ENGINEER. NO EXTRA COST IS ALLOWABLE FOR LACK OF COORDINATION AFTER SHOP DRAWINGS ARE SUBMITTED.

26) SITE INSPECTION: CONTRACTORS SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY SUBMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

27) IN BATHROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR BATHING, FIXTURES SHALL BE MECHANICALLY VENTILATED AND CONTROLLED BY HUMIDISTAT AND MOTION SENSOR.

28) TOILET EXHAUST DUCTS SHALL BE MADE OF METAL.

29) FLEXIBLE DUCT MAY BE USED FOR RESIDENTIAL OCCUPANCY WITH NO KINK AND BEND. ALL THE TURNS AND 90° ELBOWS SHALL BE SHEET METAL. FLEXIBLE DUCT MAY BE USED FOR STRAIGHT RUNS ONLY.

30) DUCT INSULATION TO CONFORM TO CALIFORNIA ENERGY CONSERVATION STANDARDS (TITLE 24). DUCT INSULATION SHALL BE "REFLETIX" WITH A 0.75" INCHES AIR GAP. VERIFY "R" VALUE PER TITLE 24 CALCULATION.

31) BELOW CHART SHOWS BOTH FLEX DUCT AND SHEET METAL DUCT SIZING (RECTANGULAR DUCTS CAN BE SUBSTITUTED WITH EQUIVALENT ROUND DUCTS WHERE APPLICABLE):

SHEET METAL DUCT SIZE	CFM
4"ø	0–32
5"ø	33–60
6"ø	61–95
8"ø	96–205
10"ø	206–370
12"ø	371–600
14"ø	601–910
16"ø	911–1300
18"ø	1301–1770
20"ø	1771–2340
22"ø	2341–3010
24"ø	3011–3790
26"ø	3791–4685

FLEX DUCT SIZE	CFM
6"ø	0–100
7"ø	101–150
8"ø	151–200
9"ø	201–280
10"ø	281–380
12"ø	381–600
14"ø	601–900
16"ø	901–1300
18"ø	1301–1750
20"ø	1751–2200

32) REFRIGERANT PIPING TO BE TYPE "L" COPPER, REFRIGERATION GRADE. FITTINGS TO BE WROUGHT COPPER WITH JOINTS MADE UP WITH "SOLIFOS" OR EQUAL HARD SOLDER. ALL JOINTS TO BE ROUGHLY CLEANED PRIOR TO SOLDERING.

33) REFRIGERANT SUCTION GENERAL REMARKS:

33A) INSULATE WITH PERFORMED FIBERGLASS SNAP–ON INSULATION SUCH AS 25 ASL/SSL.

33B) FOR PIPES UP TO 1" DIAMETER, PROVIDE 1" THICK INSULATION.

33C) FOR PIPES 1" DIAMETER AND LARGER, PROVIDE 1–1/2" THICK INSULATION.

33D) WHERE INSULATION IS EXPOSED TO WEATHER, PROTECT WITH WATER PROOF CORRUGATED ALUMINUM TO BE INTACT WITH NO GAPS OR TEARS.

33E) INSTALL INSULATION IN ACCORDANCE WITH INSULATION MANUFACTURER'S RECOMMENDATION SEAL. TRANSMISSION WITH SSL BUTT STRIPS, VAPORSEAL COVER.

34) SUCTION AND LIQUID LINE SIZES INDICATED ON THE MECHANICAL SCHEDULE ARE BASED ON STANDARD MANUFACTURER REQUIREMENT INSTALLATION. FOR LONG RUN INSTALLATIONS, CONSULT WITH MANUFACTURER BASED ON THE LENGTH OF THE RUN AND PROVIDE SHOP DRAWING TO ENGINEER.

35) CEILING DIFFUSERS TO BE EQUAL TO TITUS SERIES 250 OR 23R 3/4" 45ºE DEFLECTION WITH O.B.D. (OR APPROVED EQUAL) USED FOR SURFACE MOUNTED CEILING/GYPBOARD CEILING.

36) SIDEWALL SUPPLY AND RETURN REGISTERS TO BE EQUAL TO TITUS LINEAR BAR, SERIES 250, OR APPROVED EQUAL.

37) APPLICABLE CODES ARE AS FOLLOWS:
2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (BEES)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE "CAL GREEN"
ALL APPLICABLE LOCAL AMENDMENTS

38) HEATING, VENTILATION, AND AIR–CONDITIONING SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHOD:
AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE
ACCA MANUAL B
ASHRAE 111
NEBB PROCEDURAL STANDARDS FOR TESTING ADJUSTING BALANCING OF ENVIRONMENTAL SYSTEMS
SMACNA HVAC SYSTEMS TESTING, ADJUSTING, AND BALANCING (CMC 314.1 CODE "CAL GREEN")

DUCT SUPPORT

A. VERTICAL DUCTS

MAXIMUM SIDE OF RECTANGULAR DUCT	METAL STRAP ANGLE BRACKET	MAXIMUM DIAMETER OF ROUND DUCTS	STRAP
24"	1" X 1/8" (STRAP)[1]	10"	0.047" (NO. 18 GAGE) GALVANIZED STEEL 2" WIDE
36"	1" X 1" X 1/8" ANGLE [1]	20"	0.058" (NO. 16 GAGE) GALVANIZED STEEL 2" WIDE 1
48"	1 1/8" X 1 1/8" X 1/8" ANGLE[1]	40"	1/8" STEEL X 1 1/2" 1
60"	1 1/2" X 1 1/2" X 1/8" ANGLE[1]	60"	1/8" X 2" 1
OVER 60"	2" X 2" X 1/8" ANGLE[1]	OVER 60"	3/16 STEEL X 2" 1

B. HORIZONTAL DUCTS

18"	1" X 18" GAUGE [2]	10"	SAME GAUGE AS GALVANIZED STEEL DUCT, 1" WIDE OR (NO. 18 GAUGE GALVANIZED STEEL WIRE) ON 10' CENTERS
30"	1" X 18" GAUGE [2]		
48"	1" X 1/8" [2]	20"	SAME GAUGE AS GALVANIZED STEEL 1" WIDE OR (NO. 8 GAGE GALVANIZED STEEL WIRE) TIED TO 1" GALVANIZED STEEL BAND AROUND DUCT ON 10' CENTERS
60"	1" X 1/8" [2]	40"	
80"	1" X 1/8" [2]		
		60"	SAME GAUGE AS GALVANIZED STEEL DUCT, 1–1/2" WIDE ON 6' CENTERS.
		OVER 60"	SAME GAUGE AS GALVANIZED STEEL DUCT, 1–1/2" WIDE ON 4' CENTERS.

C. HORIZONTAL–DUCTS–TRAPEZE–TYPE SUPPORTS

MAXIMUM DIAMETER OF ROUND DUCT OR SIDE OF RECTANGULAR DUCT	HORIZONTAL[3] SUPPORT ANGLE	HANGER
36"	1–1/2" X 1–1/2" X 1/8"	1/4" ROUND ROD OR 1" X 1" X 1/8" ANGLE
48"	2" X 2" X 1/8"	1/4" ROUND ROD OR 1" X 1" X 1/8" ANGLE
60"	2" X 2" X 1/8"	5/16" ROUND ROD OR 1" X 1" X 1/8" ANGLE
84"	2" X 2" X 1/8"	3/8" ROUND ROD OR 1" X 1" X 1/8" ANGLE

[1]SPACED VERTICALLY NOT MORE THAN 12 FEET ON CENTERS.

[2]SPACED HORIZINTALLY NOT MORE THAN 10 FEET ON CENTERS.

[3]SPACED NOT MORE THAN 8 FEET ON CENTERS.

CONTRUCTION DETAILS FOR ROUND AND FLAT–OVAL DUCTS (LOW, MEDIUM AND HIGH PRESSURE)

DUCT DIAMETER MAX WIDTH (IN INCHES)	ALUMINUNM B. & S. GAGE	STEEL–THICKNESS IN INCHES (STEEL–GALVANIZED SHEET GAGE)					GIRTH JOINTS[1]	
		PRESSURE<2" WC*		PRESSURE>2"<10" WC				
	LOW PRESSURE ROUND	ROUND	FLAT–OVAL	SPIRAL SEAM	LONGTUDINAL SEAM	WELDED FITTINGS	MEDIUM & HIGH PRESSURE	MINIMUM GIRTH REINFORCING, MAX. SPACING & ANGLE SIZE
UP TO 9	24	0.019 (26)	0.024 (24)	0.019 (26)	0.024 (24)	0.030 (22)	2" SLIP	NONE
9 TO 14	24	0.019 (26)	0.024 (24)	0.024 (24)	0.030 (22)	0.036 (20)	4" SLIP	NONE
14 TO 23	22	0.024 (24)	0.030 (22)	0.024 (24)	0.030 (22)	0.036 (20)	4" SLIP	NONE
23 TO 37	20	0.030 (22)	0.036 (20)	0.030 (22)	0.036 (20)	0.036 (20)	4" SLIP	NONE
37 TO 51	18	0.036 (20)	0.047 (18)	0.036 (20)	0.036 (20)	0.047 (18)	1 1/4"X1 1/4" X1/8" FLANGE	1 1/4"X 1 1/4" X1/8" ON 72"
51 TO 61	16	0.047 (18)	0.058 (16)	x (18)	0.047 (18)	0.047 (18)	1 1/4"X1 1/4" X1/8" FLANGE	1 1/4"X 1 1/4" X1/8"
61 TO 84	14	0.058 (16)	0.070 (14)	x	0.058 (16)	0.058 (16)	1 1/2"X1 1/2" X1/8" FLANGE	1 1/2"X 1 1/2" X1/8" ON 48"

1 FOR LOW–PRESSURE SYSTEM ANY OF THE FOLLOWING JOINTS ARE ACCEPTABLE: BUTT SLIP; PIPE SLIP; ROLL SLIP; SNAP SLIP; PLENIUM LOCK AND COMPANION FLANGE.

2 ACCEPTABLE LONGITUDINAL SEAMS FOR LOW–PRESSURE SYSTEMS: ACME (GROOVED); SNAP LOCK; STANDING AND SPIRAL.

CALIFORNIA NON–RESIDENTIAL GREEN BUILDING NOTES:

1) A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED AND PROVIDED TO THE FIELD INSPECTOR PRIOR TO FINAL APPROVAL. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. CGBS 5.410.4.4, 10.4.104.4
2) FOR ALL NEW EQUIPMENT, AN OPERATION & SYSTEMS MANUAL SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION. CGBS 5.410.4.5, 10.4.104.5
3) IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 13. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. CGBS 5.504.1.3, CALGREEN 5.714.4.1
4) ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT. CGBS 5.504.3, 5.714.4.3, 10.504.3
5) AN AIR FILTER WITH A MINIMUM EFFICIENCY REPORTING VALVE (MERV) OF 8 OR HIGHER SHALL BE INSTALLED IN THE MECHANICAL SYSTEM FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY. CGBS 5.504.5.3, 5.714.4.5, 10.505.3
6) DESIGNATED OUTDOOR SMOKING AREA SHALL BE AT LEAST 5 FEET FROM AN OUTDOOR AIR INTAKE OR OPERABLE WINDOWS. CGBS 5.504.7, 10.504.7
7) THE BUILDING SHALL MEET OR EXCEED THE PROVISION S FOR MECHANICAL VENTILATION OF SECTION 1203 OF THE LOS ANGELES BUILDING CODE. CGBS 5.505.1, 10.505.1
8) VENTILATED SPACES IN BUILDING SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 121 OF THE OF CALIFORNIA ENERGY CODE AND CHAPTER 4 OF THE CALIFORNIA CODE REGULATIONS, TITLE 8. CGBS 5.506.1, 10.506.1
9) THE HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFC OR HALONS. CGBS 5.508.1.1, 10.508.1.1

DUCT SIZING (SHEET METAL GALVANIZED)

THE FOLLOWING SIZES ARE BASED ON A FRACTION DROP OF 0.08 INCHES PER FT OF LINEAL DUCT. THIS "EQUAL–FRICTION" METHOD OF DUCT SIZING SHOULD BE ADEQUATE FOR RESIDENTIAL FURNACE HEATING AND AIR CONDITIONING APPLICATION. SIZING BASED ON THIS SCHEDULE WILL COMPLY WITH MANUAL "D" REQUIREMENT.

RECTANGULAR AND ROUND DUCT

AIR VOLUME CFM	DUCT HEIGHT INCHES 4"	6"	8"	10"	12"	EQUIVALENT ROUND DUCT
50	5X4					5"
75	6X4					6"
100	8X4	6X5				6"
125	10X4	6X6				7"
150	10X4	7X6				7"
175	13X4	8X6				8"
200	14X4	9X6				8"
225	16X4	10X6				9"
250	18X4	11X6	8X8			9"
275		12X6	8X8			9"
300		12X6	9X8			9"
400		16X6	11X8			11"
500		19X6	13X8	10X10		11"
600		22X6	15X8	12X10		12"
700		25X6	18X8	14X10		12"
800		28X6	19X8	15X10	12X12	14"
900		32X6	22X8	17X10	14X12	14"
1000			24X8	18X10	15X12	15"
1100			25X8	19X10	16X12	15"
1200			27X8	21X10	17X12	16"
1300			30X8	22X10	18X12	16"
1400			32X8	24X10	19X12	17"
1500				25X10	20X12	17"
1600				27X10	21X12	18"
1700				28X10	22X12	18"
1800				29X10	23X12	19"
1900				31X10	25X12	19"
2000				32X10	26X12	19"

DUCT SIZING (FLEX DUCT)

THE FOLLOWING SIZES ARE BASED ON A FRACTION DROP OF 0.08 INCHES PER FT OF LINEAL DUCT. THIS "EQUAL–FRICTION" METHOD OF DUCT SIZING SHOULD BE ADEQUATE FOR RESIDENTIAL FURNACE HEATING AND AIR CONDITIONING APPLICATION. SIZING BASED ON THIS SCHEDULE WILL COMPLY WITH MANUAL "D" REQUIREMENT.

FLEX DUCT (IN.)	CFM RANGE	FRICTION/100 FT. (IN.)	VELOCITY FPM
6	0–100	0.08	500
7	101–150	0.08	560
8	151–200	0.08	600
9	201–280	0.08	650
10	281–380	0.08	700
12	381–600	0.08	750
14	601–900	0.08	850
16	901–1300	0.08	950
18	1301–1750	0.08	1000
20	1751–2200	0.08	1000

SIDEWALL AND CEILING RETURN

SIZE IN.	VELOCITY CFM	RANGE	SIZE IN.	VELOCITY CFM	RANGE
6X6	400	0–76	18X18	400	0–828
8X6	400	0–104	30X18	400	0–1400
10X6	400	0–136	36X18	400	0–1688
12X6	400	0–164	20X20	400	0–1028
14X6	400	0–192	24X20	400	0–1244
16X6	400	0–228	36X20	400	0–1884
18X6	400	0–252	22X22	400	0–1256
20X6	400	0–288	24X22	400	0–1372
8X8	400	0–148	24X24	400	0–1500
12X8	400	0–228	36X24	400	0–2264
10X10	400	0–236	28X28	400	0–2064
12X10	400	0–288	30X28	400	0–2204
12X12	400	0–352	36X28	400	0–2664
18X12	400	0–540	30X30	400	0–2376
24X12	400	0–728	36X30	400	0–2864
30X12	400	0–916	32X32	400	0–2712
36X12	400	0–1100	34X34	400	0–3072
14X14	400	0–488	36X36	400	0–3452
18X14	400	0–636	42X36	400	0–4040
24X14	400	0–856	38X38	400	0–3856
36X14	400	0–1288	42X38	400	0–4268
16X16	400	0–648	40X40	400	0–4280
18X16	400	0–728	42X42	400	0–4728
24X16	400	0–984			
30X16	400	0–1244			

* BASED ON TUTTLE & BAILEY MODEL T70D, 3/4", 45°DEFLECTION

SIDEWALL SUPPLY AND CEILING DIFFUSERS

SIZE IN.	OUTLET VELOCITY	THROW FEET	CFM RANGE
10X6	400	15	0–140
12X6	400	11	0–160
14X6	400	15	0–180
16X6	400	16	0–220
18X6	400	17	0–250
20X6	400	17	0–280
8X8	400	15	0–140
10X8	400	15	0–180
12X8	400	16	0–220
14X8	400	17	0–280
16X8	400	18	0–325
18X8	400	19	0–350
20X8	400	19	0–390
24X8	400	20	0–420
18X10	400	20	0–420
20X10	400	20	0–460
24X10	400	21	0–520
12X12	400	19	0–350
14X12	400	19	0–390
16X12	400	20	0–420
18X12	400	21	0–510
20X12	400	21	0–520
24X12	400	17	0–620

*BASED ON TUTTLE & BAILEY MODEL A40

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

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Inglewood, CA, 90302

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EXP:6/30/27

BAR SCALE

⚠ MECHANICAL REVISION 1	12.11.2025

SHEET REVISION — DATE

BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

ISSUE — DATE

SCHEDULES, NOTES & LEGEND

SCALE: N.T.S.

M002

DATE
2.18.2026

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