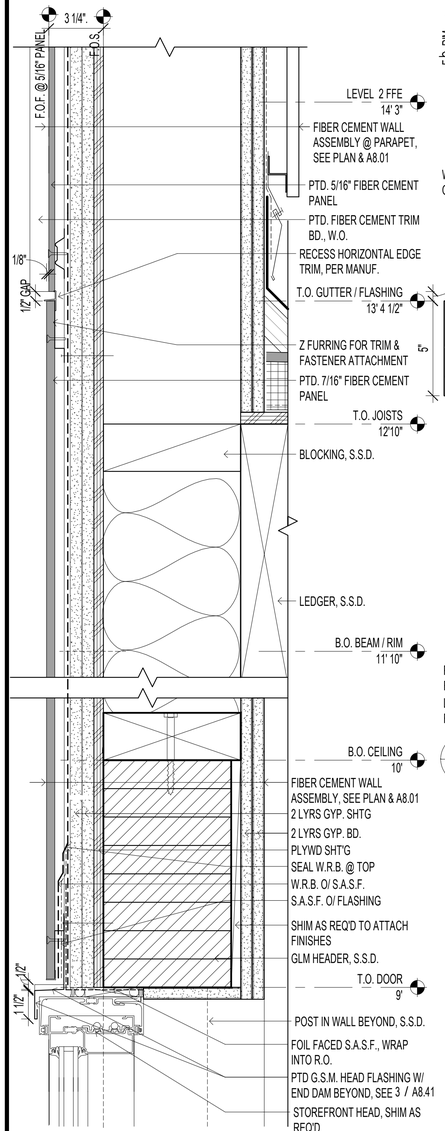
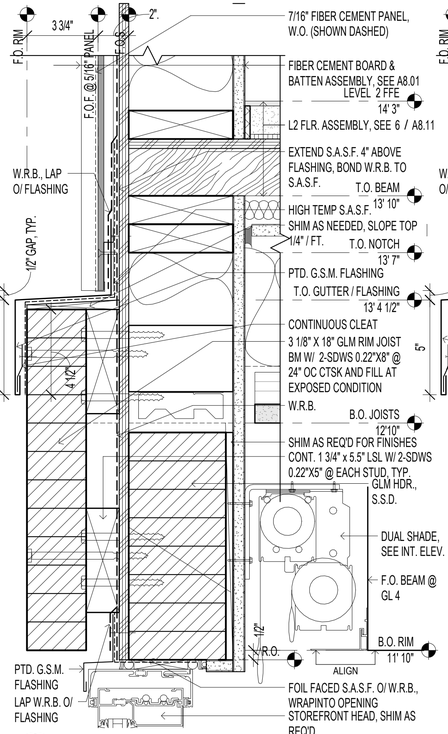


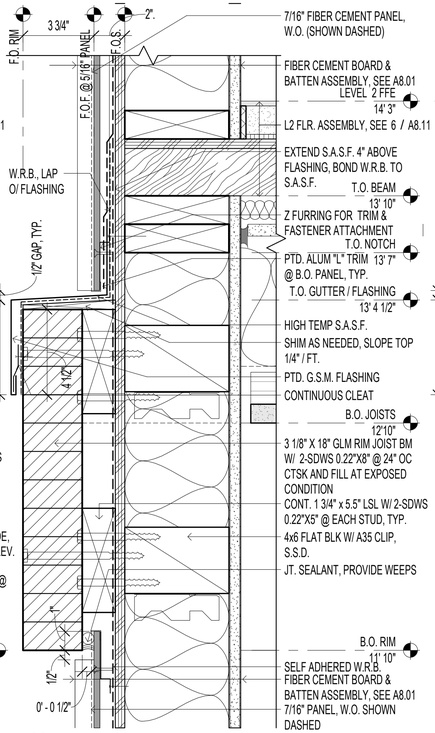
17 A8.21 SECTION @ PARAPET WALL

SCALE: 3" = 1'-0"



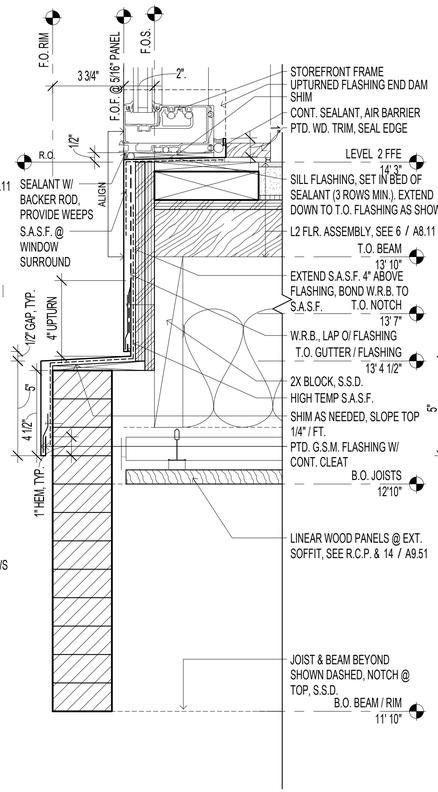
14 A8.21 STOREFRONT HEAD @ RIM (SOUTH)

SCALE: 3" = 1'-0"



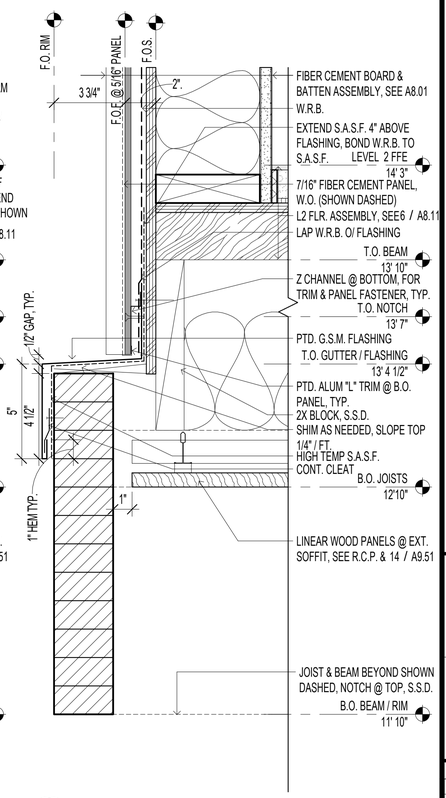
10 A8.21 RIM JOIST @ L2 @ SOUTH

SCALE: 3" = 1'-0"



6 A8.21 STOREFRONT SILL @ WEST

SCALE: 3" = 1'-0"



2 A8.21 BD. & BATTEN SILL @ WEST

SCALE: 3" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT
RYAN JANG
NO. C 33368
REN 6/30/2023
STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

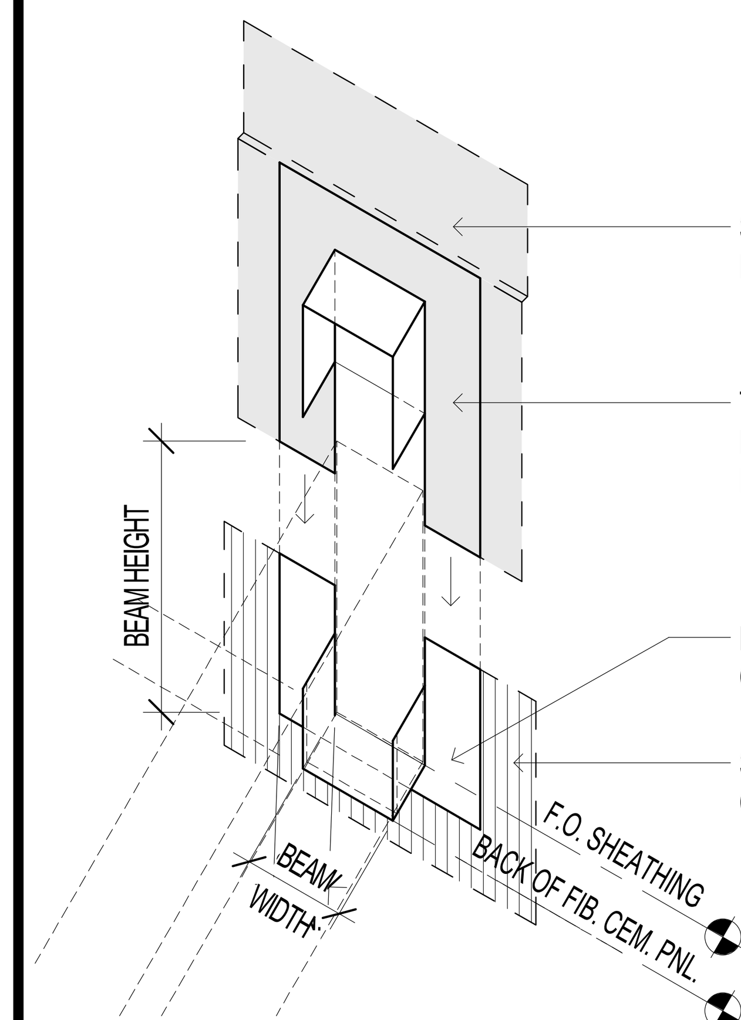
Drawing Title
EXT. DTLS. - WALLS

Drawing No.
A8.21

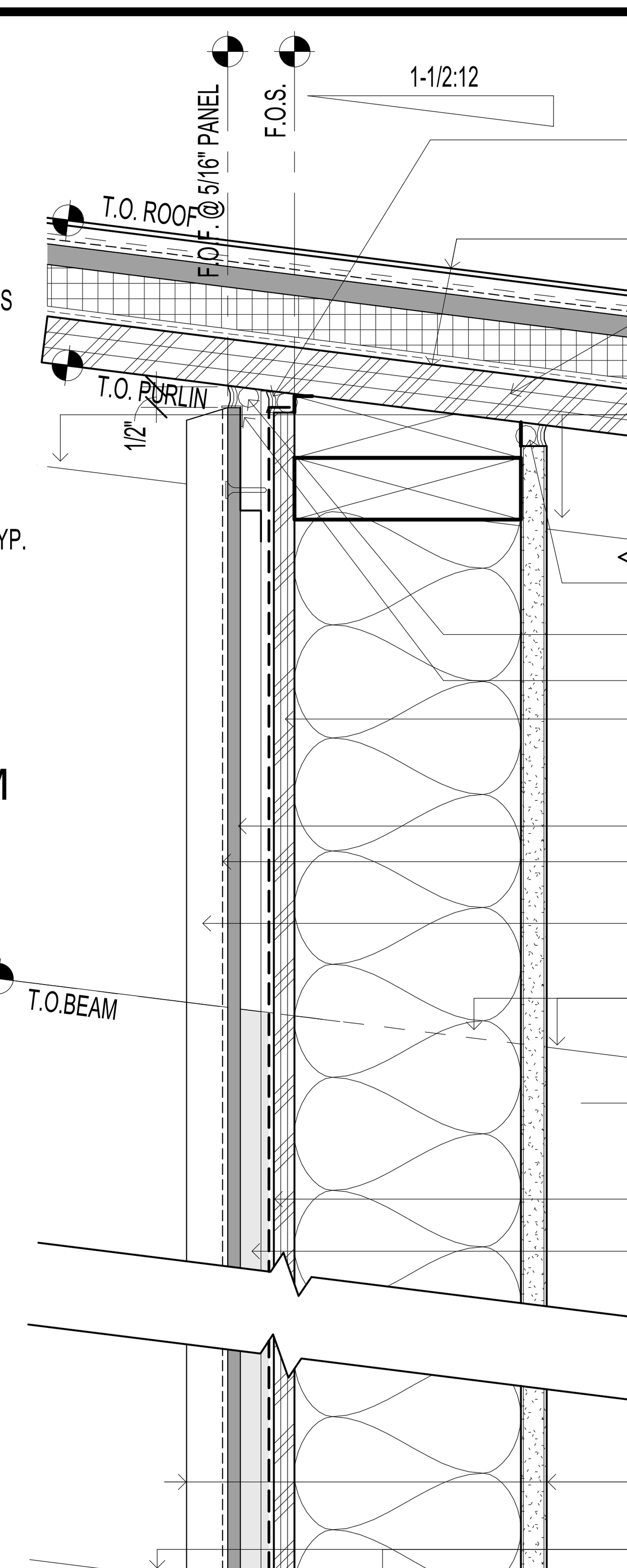
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:15 PM
DRAWING NAME: BIM 360:../Mosswood/1902_Mosswood_Arch_R21.rvt

16 A8.22 WP @ PIPE PENETRATION @ BEAM
SCALE: 3" = 1'-0"

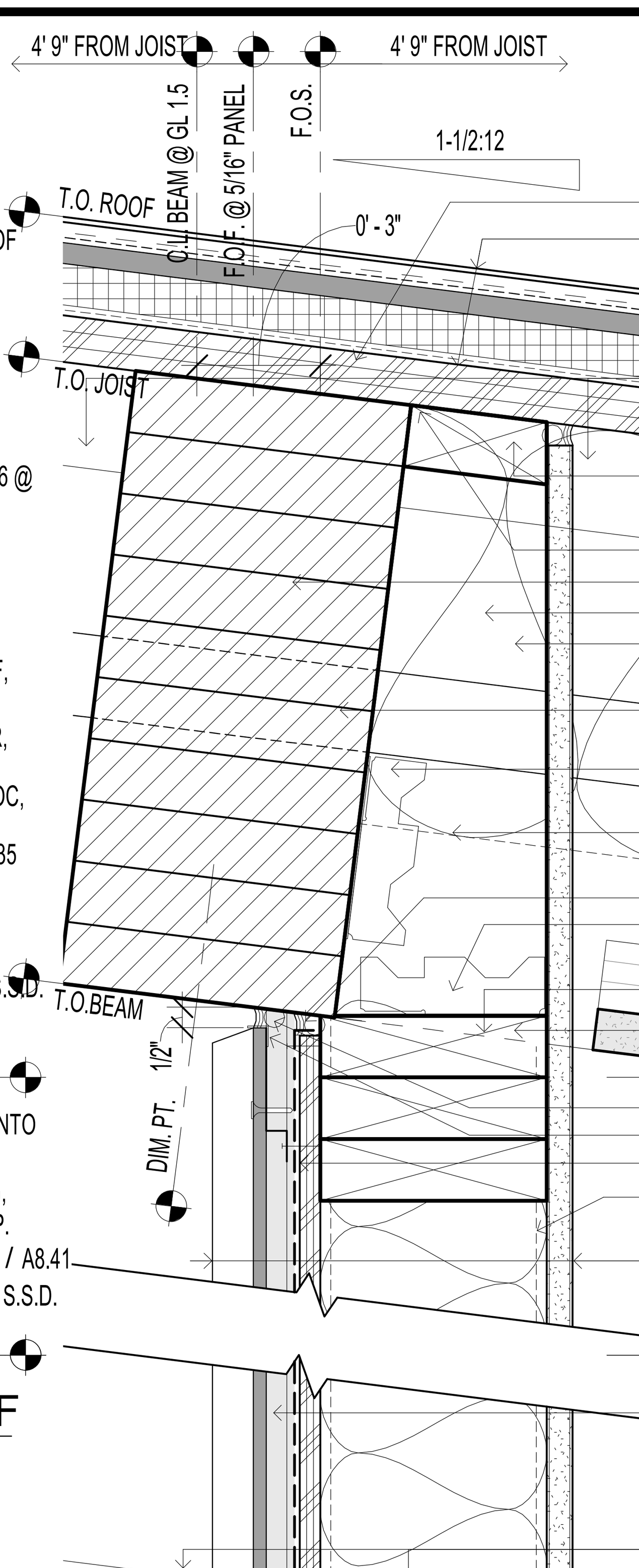


19 A8.22 TYP. BEAM PENETRATION @ EXT. WALL
SCALE: 1" = 1'-0"

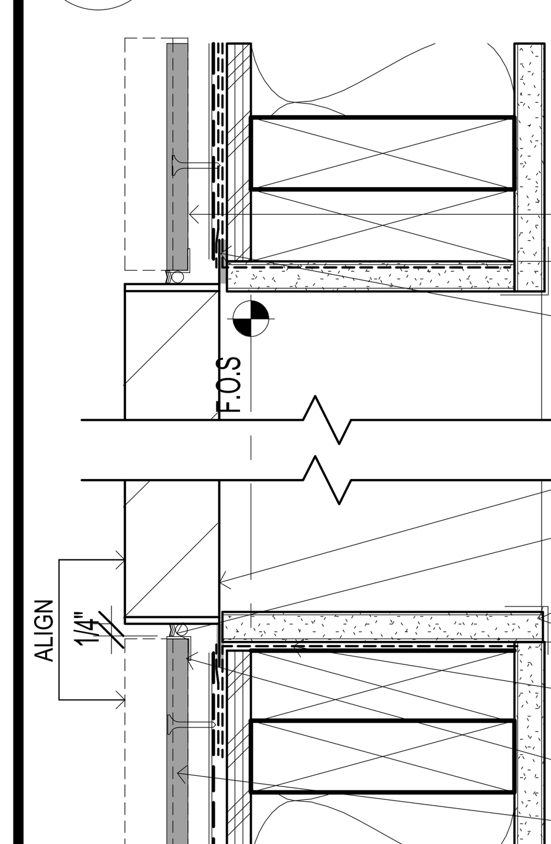


11 A8.22 BD & BATTEN HEAD @ ROOF - SOUTH
SCALE: 3" = 1'-0"

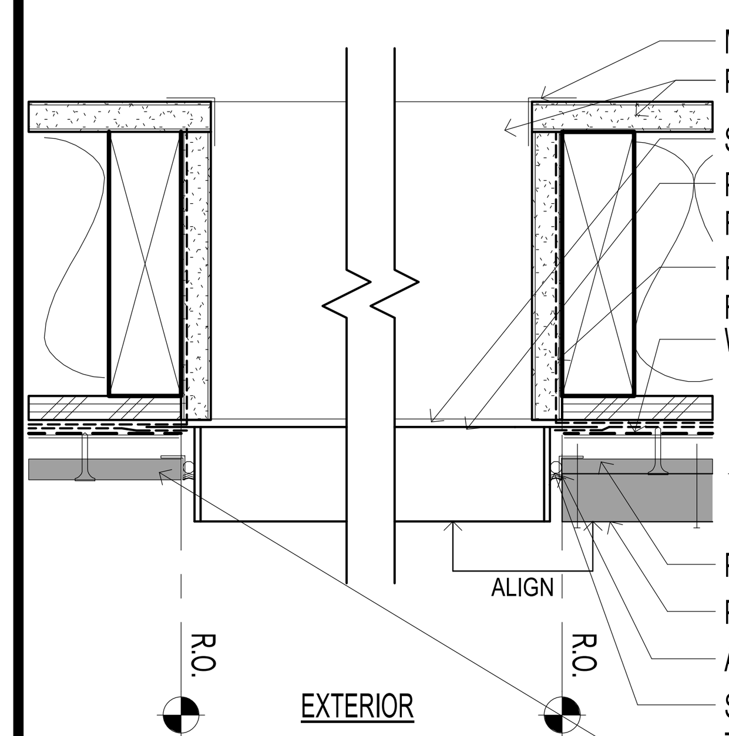
7 A8.22 STOREFRONT HEAD @ ROOF GL F
SCALE: 3" = 1'-0"



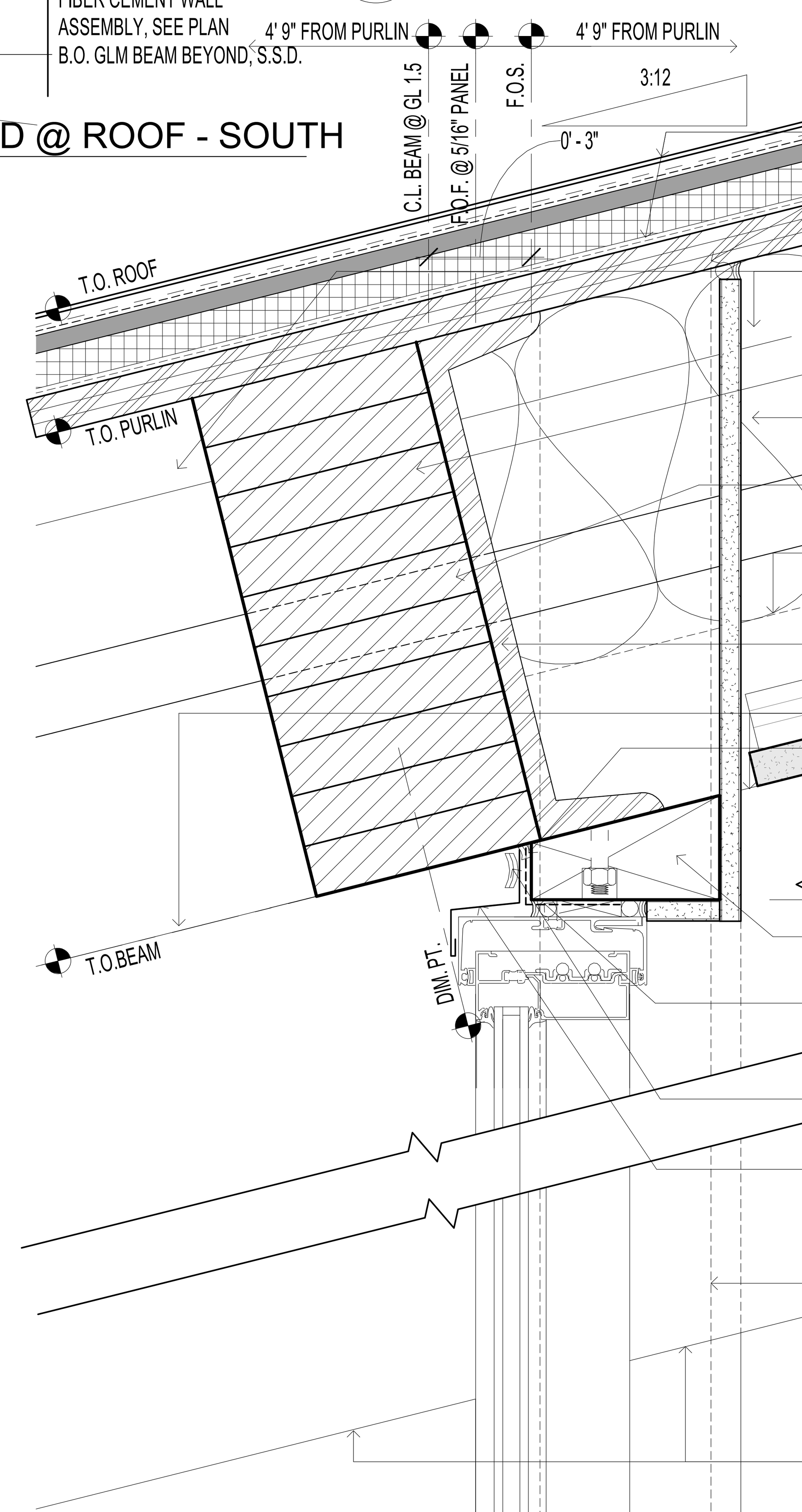
3 A8.22 BD. & BATTEN HEAD @ ROOF GL E
SCALE: 3" = 1'-0"



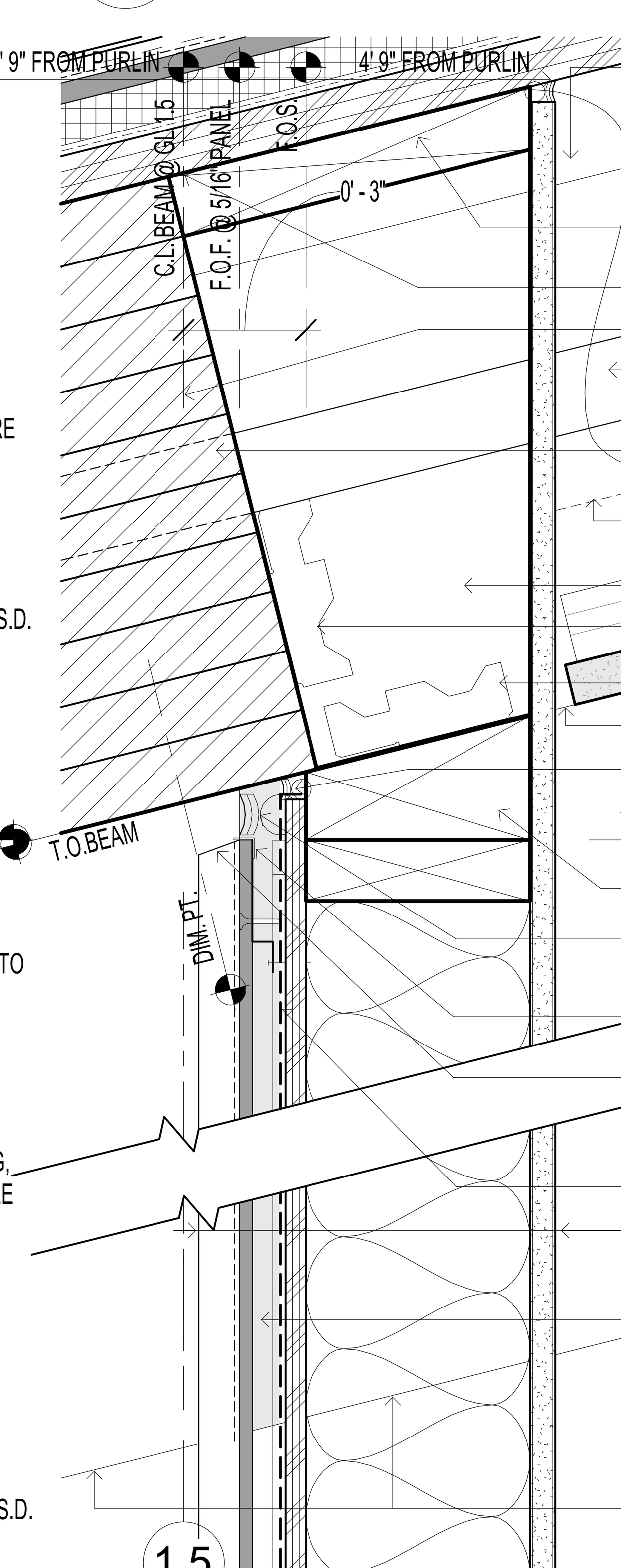
18 A8.22 WALL LOUVER SILL/HEAD
SCALE: 3" = 1'-0"



17 A8.22 GABLE VENT JAMB
SCALE: 3" = 1'-0"



5 A8.22 STOREFRONT HEAD @ ROOF GL A
SCALE: 3" = 1'-0"



1 A8.22 BD & BATTEN HEAD @ ROOF GL B
SCALE: 3" = 1'-0"

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LICENSED ARCHITECT RYAN JANG NO. C 33680 REN 6/30/2023 STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
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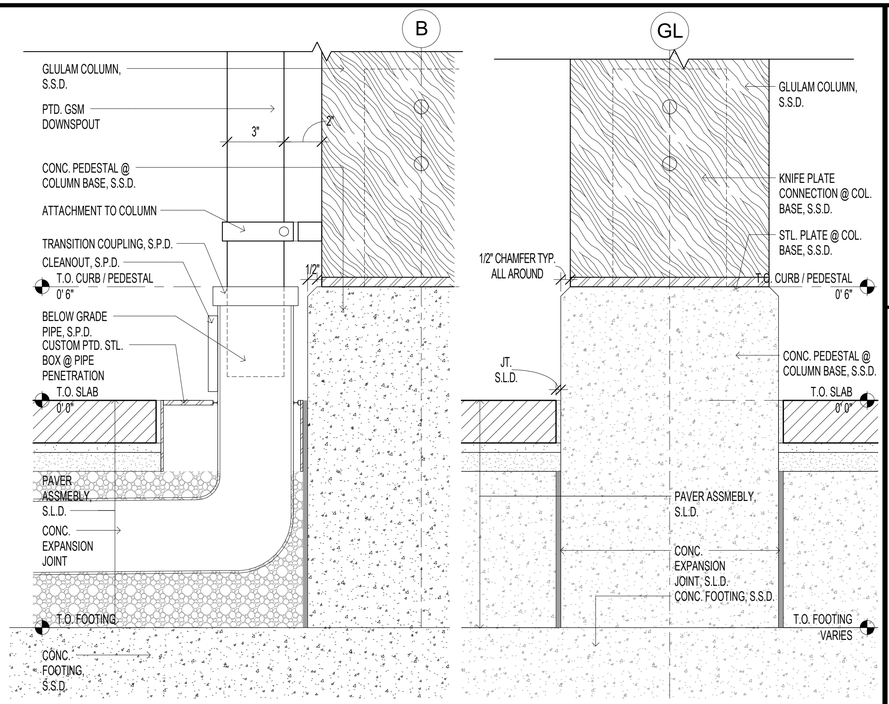
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
EXT. DTLS. - WALLS

Drawing No.
A8.22

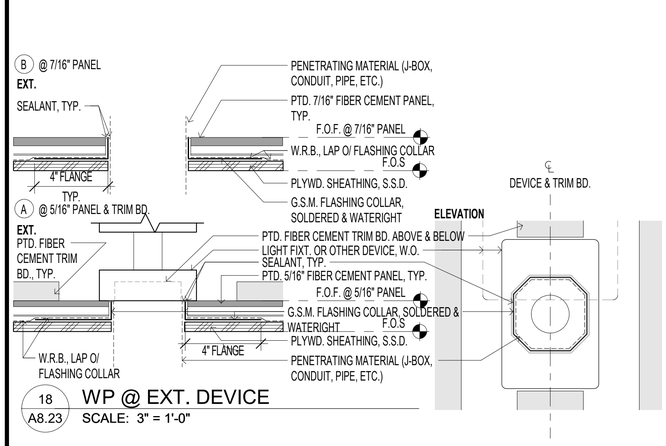
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:17 PM
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt

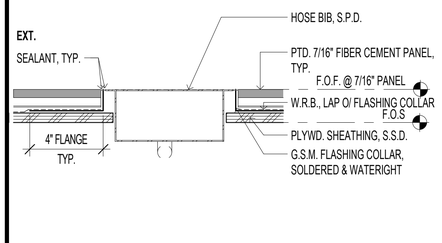


7 A8.23 BASE @ EXT. COLUMN & DOWNSPOUT
SCALE: 3" = 1'-0"

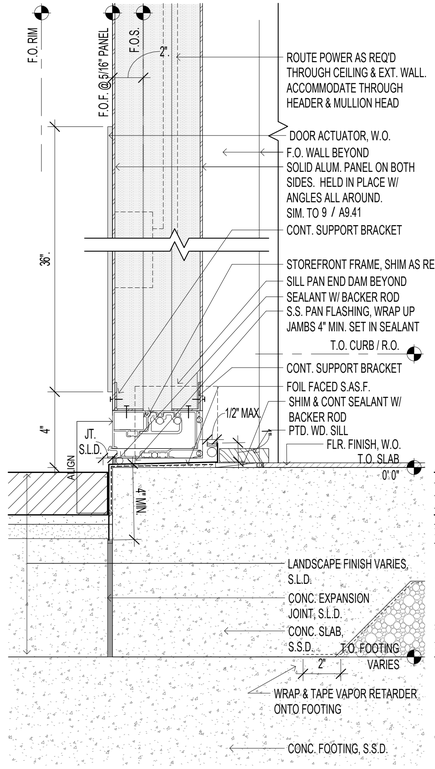
3 A8.23 BASE @ EXT. COLUMN
SCALE: 3" = 1'-0"



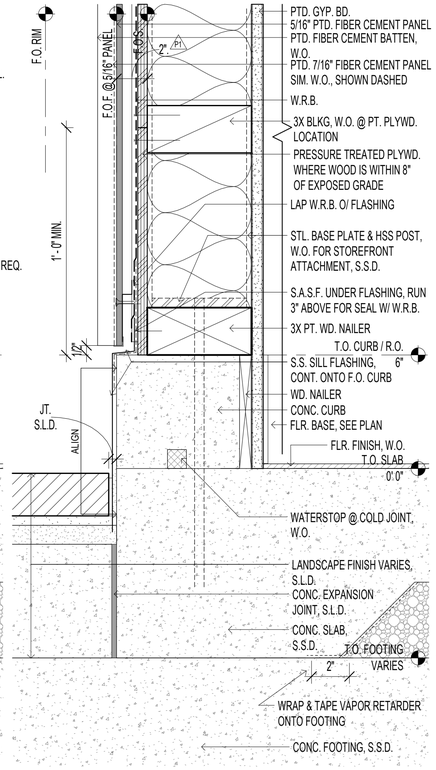
18 A8.23 WP @ EXT. DEVICE
SCALE: 3" = 1'-0"



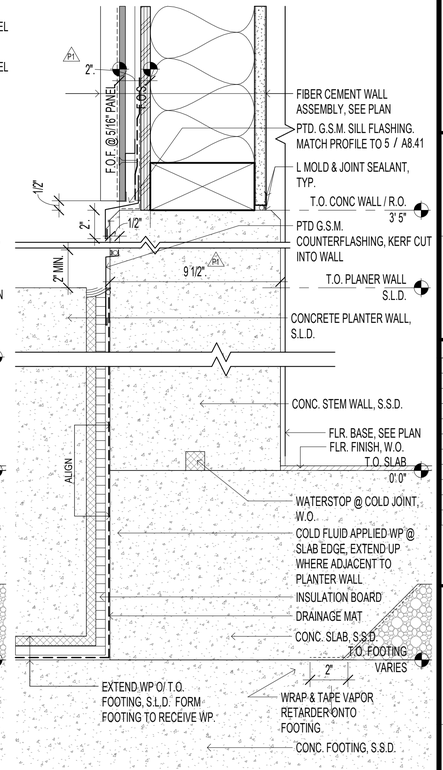
17 A8.23 WP @ RECESSED HOSE BIB BOX
SCALE: 3" = 1'-0"



9 A8.23 BASE @ DEVICE PANEL @ DOOR
SCALE: 3" = 1'-0"



5 A8.23 SILL @ BD. & BATTEN WALL (L 1)
SCALE: 3" = 1'-0"



1 A8.23 CONC. STEM WALL @ PLANTER
SCALE: 3" = 1'-0"

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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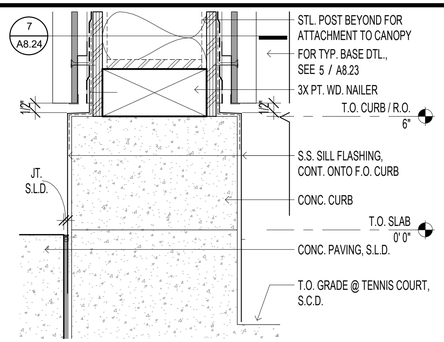
Drawing Title
EXT. DTLS. - WALLS

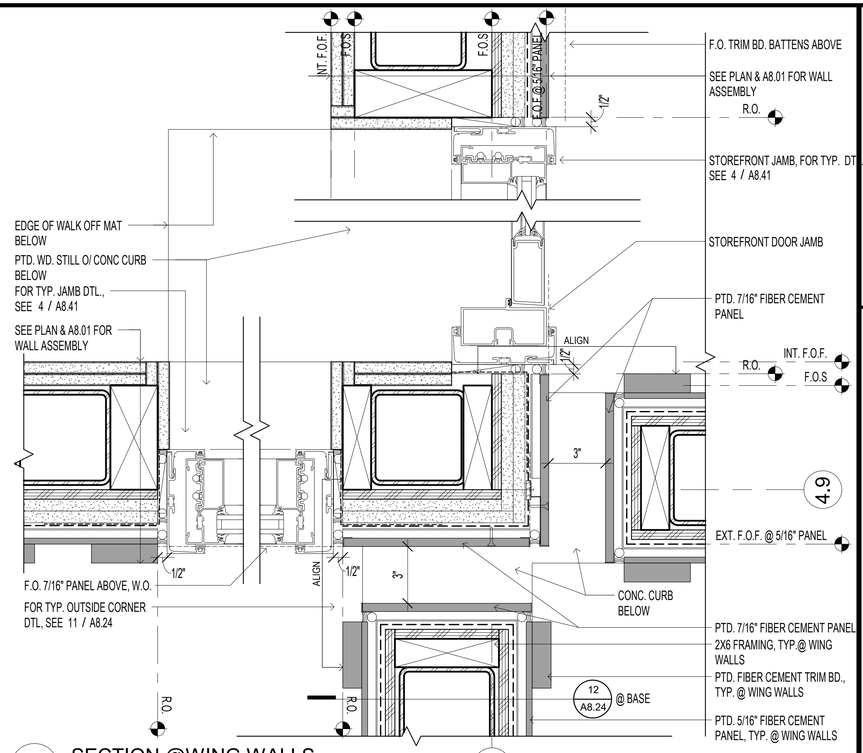
Drawing No.
A8.23

Sheet No.

MOSSWOOD COMMUNITY CENTER
PLOT DATE: 7/18/2022 6:13:20 PM
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt
LMSa PROJECT NUMBER: 1902

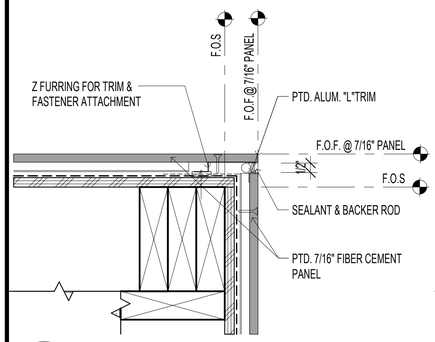


12 A8.24 BASE @ WING WALL
SCALE: 3" = 1'-0"

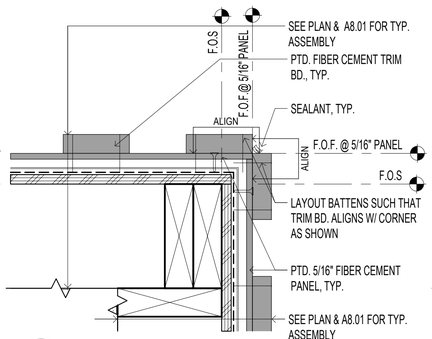


7 A8.24 SECTION @WING WALLS
SCALE: 3" = 1'-0"

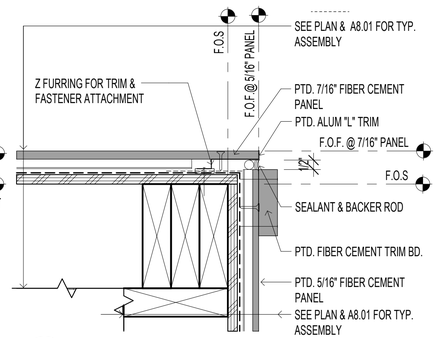
F.9



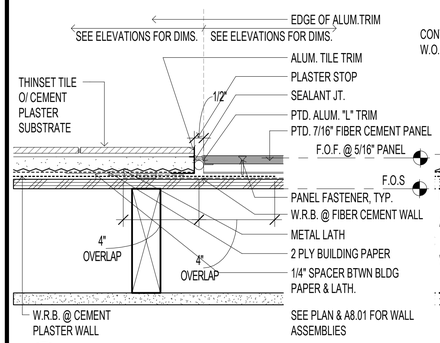
19 A8.24 OUTSIDE CORNER - REVEAL PNL.
SCALE: 3" = 1'-0"



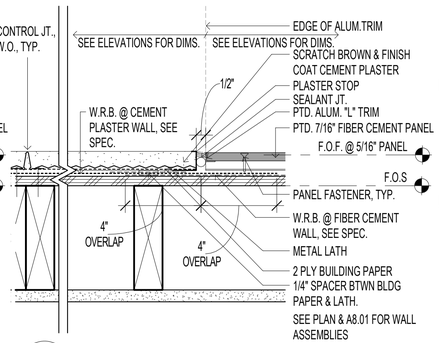
15 A8.24 OUTSIDE CORNER (BD & BATTEN)
SCALE: 3" = 1'-0"



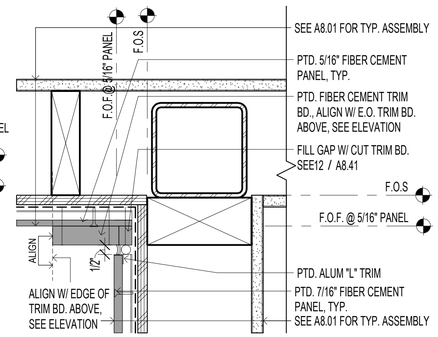
11 A8.24 OUTSIDE CORNER (5/16" TO 7/16")
SCALE: 3" = 1'-0"



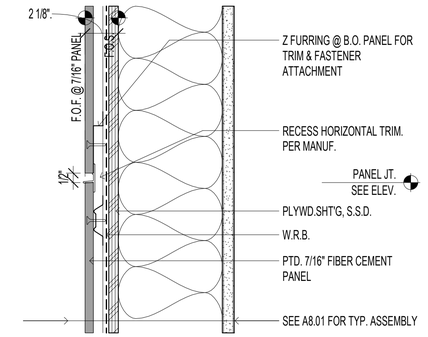
18 A8.24 JT. @ REVEAL TO TILE O/ STUCCO
SCALE: 3" = 1'-0"



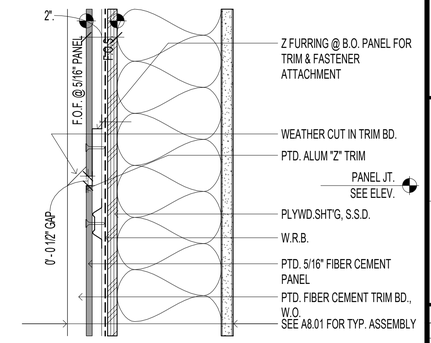
14 A8.24 JT. @ REVEAL TO STUCCO
SCALE: 3" = 1'-0"



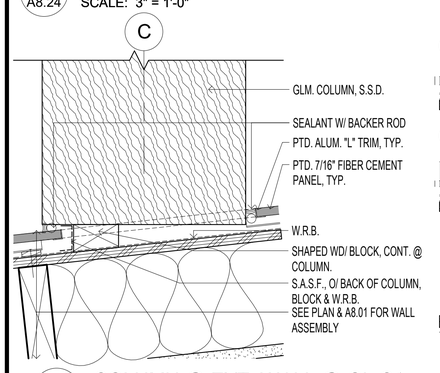
10 A8.24 INSIDE CORNER (5/16" TO 7/16")
SCALE: 3" = 1'-0"



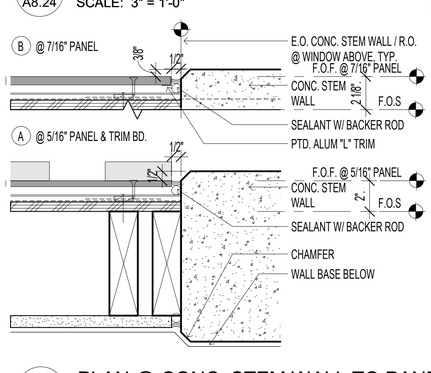
6 A8.24 TYP. HORIZ. JT. @ REVEAL PANEL
SCALE: 3" = 1'-0"



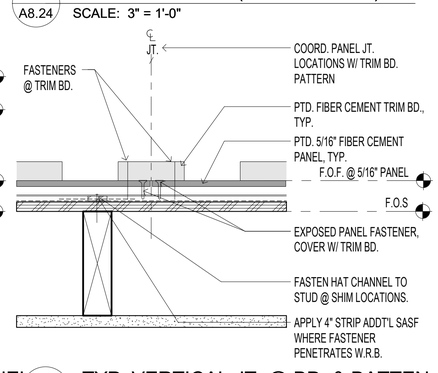
2 A8.24 TYP.HORIZ. JT. @ BD. & BATTEN
SCALE: 3" = 1'-0"



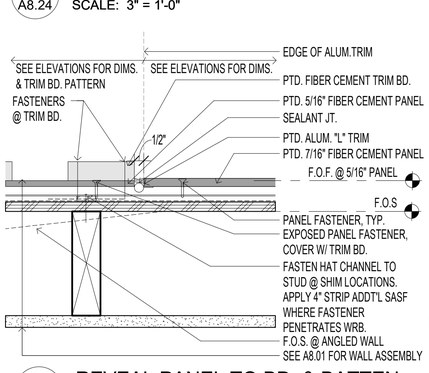
17 A8.24 COLUMN @ EXT. WALL @ GL C1
SCALE: 3" = 1'-0"



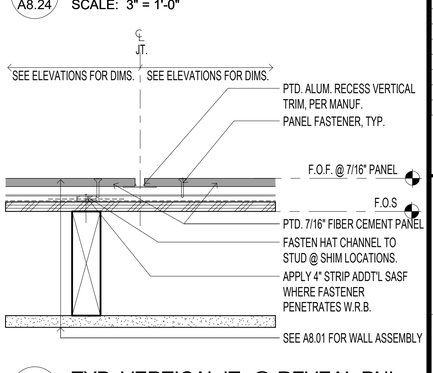
13 A8.24 PLAN @ CONC. STEM WALL TO PANEL
SCALE: 3" = 1'-0"



9 A8.24 TYP. VERTICAL JT. @ BD. & BATTEN
SCALE: 3" = 1'-0"



5 A8.24 REVEAL PANEL TO BD. & BATTEN
SCALE: 3" = 1'-0"



1 A8.24 TYP. VERTICALJT. @ REVEAL PNL.
SCALE: 3" = 1'-0"

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Drawing No.
A8.24
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
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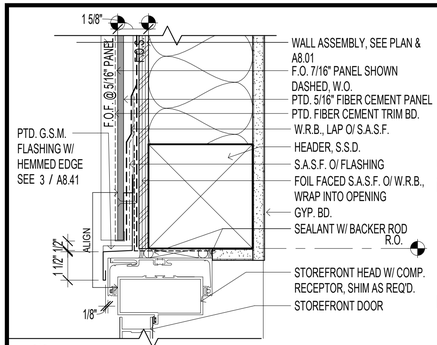
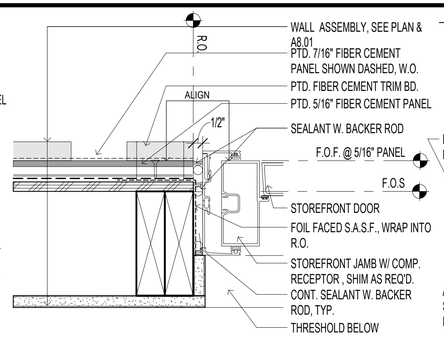
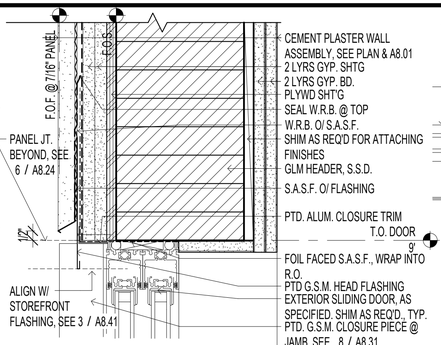
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



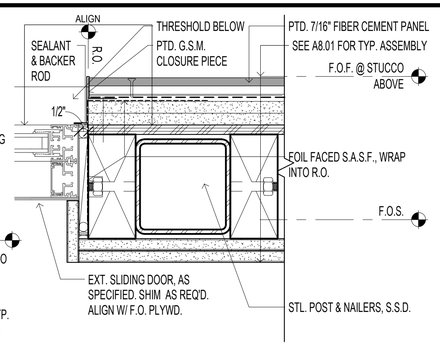
20 A8.31 TYP. STOREFRONT DR. HEAD
SCALE: 3" = 1'-0"



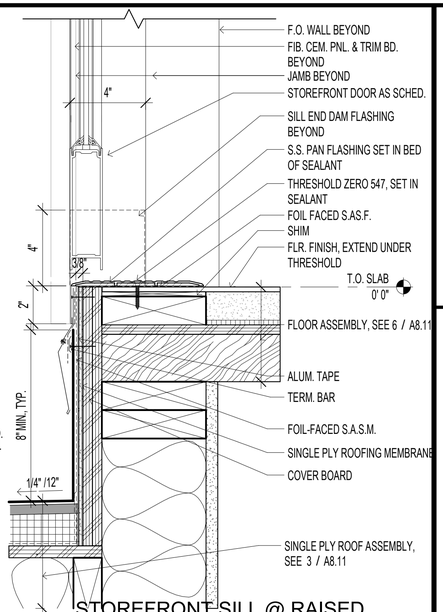
16 A8.31 TYP. STOREFRONT DR. JAMB
SCALE: 3" = 1'-0"



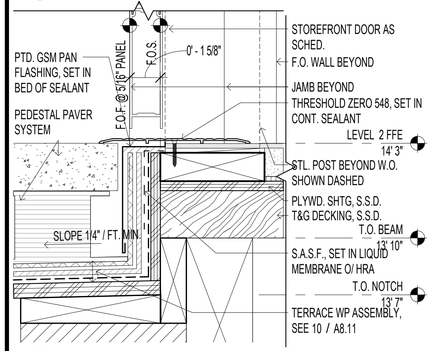
12 A8.31 SLIDING DR. HEAD @ STUCCO
SCALE: 3" = 1'-0"



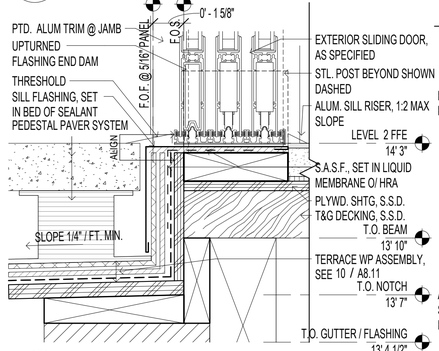
8 A8.31 SLIDING DR. JAMB @ 2 HR. WALL
SCALE: 3" = 1'-0"



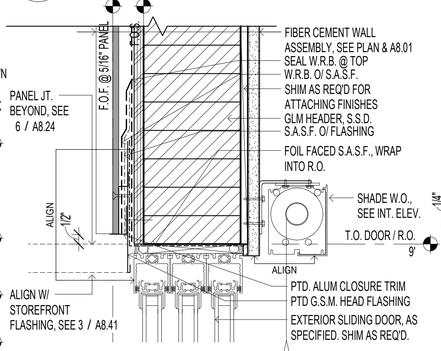
STOREFRONT SILL @ RAISED CURB @ MECH. ROOF
3 A8.31 SCALE: 3" = 1'-0"



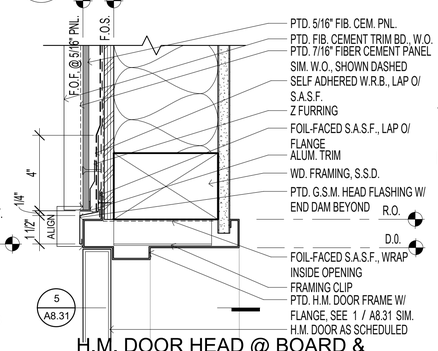
19 A8.31 STOREFRONT DR. SILL @ TERRACE
SCALE: 3" = 1'-0"



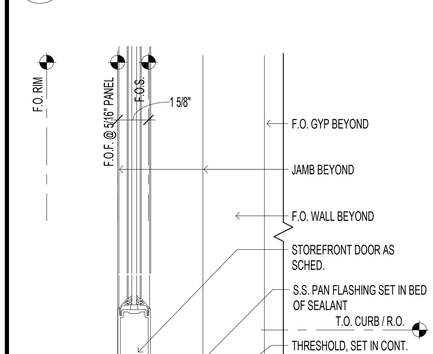
15 A8.31 SLIDING DOOR SILL @ TERRACE
SCALE: 3" = 1'-0"



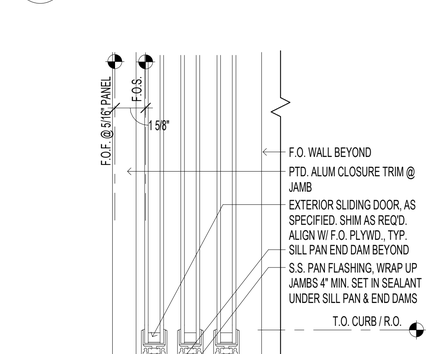
11 A8.31 SLIDING DR. HEAD @ BD. & BATTEN
SCALE: 3" = 1'-0"



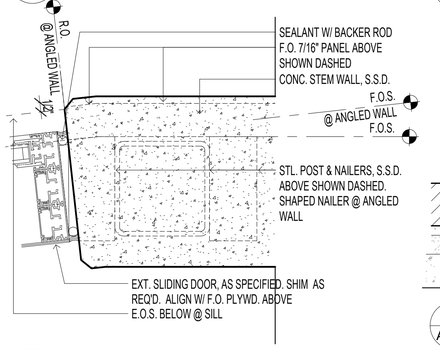
H.M. DOOR HEAD @ BOARD & BATTEN (REVEAL PANEL SIM.)
7 A8.31 SCALE: 3" = 1'-0"



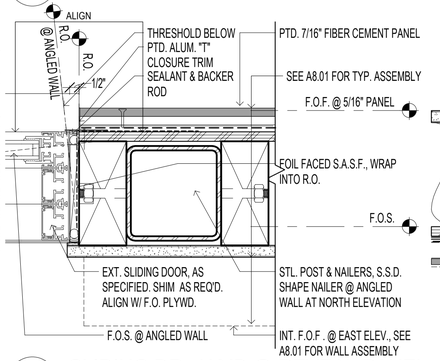
17 A8.31 STOREFRONT DOOR SILL
SCALE: 3" = 1'-0"



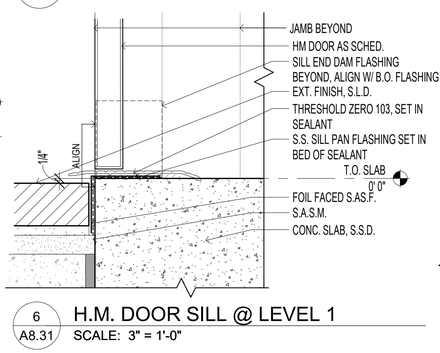
13 A8.31 SLIDING DOOR SILL @ LEVEL 1
SCALE: 3" = 1'-0"



10 A8.31 SLIDING DR. JAMB @ CONC
SCALE: 3" = 1'-0"



9 A8.31 SLIDING DR. JAMB @ REVEAL PANEL
SCALE: 3" = 1'-0"



6 A8.31 H.M. DOOR SILL @ LEVEL 1
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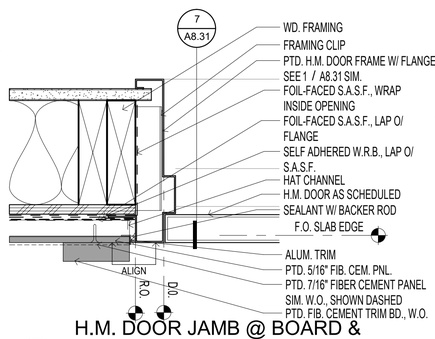
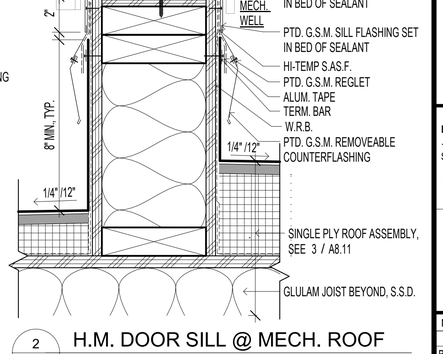


5 A8.31 H.M. DOOR JAMB @ BOARD & BATTEN (REVEAL PANEL SIM.)
SCALE: 3" = 1'-0"



1 A8.31 H.M. DOOR FRAME AXON
SCALE: 3" = 1'-0"

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Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT RYAN JANG NO. C 33368 REN 6/30/2023 STATE OF CALIFORNIA

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
EXT. DTLS. - DOORS

Drawing No.
A8.31

Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:27 PM
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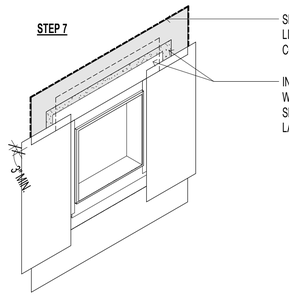
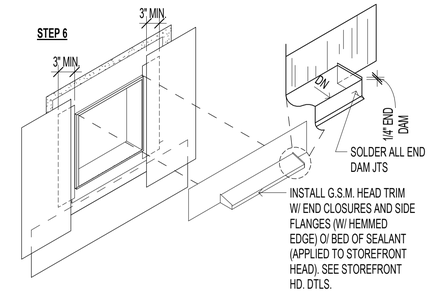
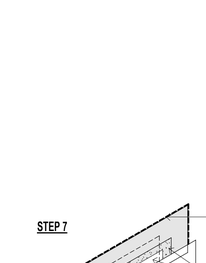
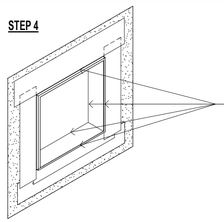
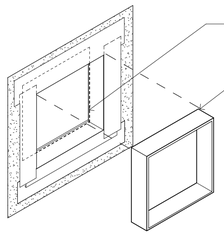
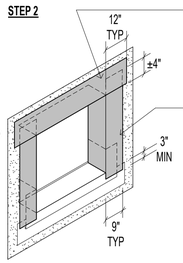








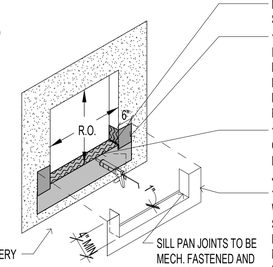




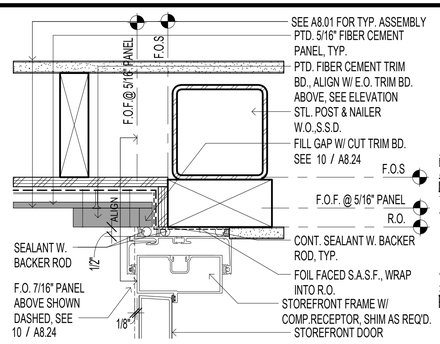
STEP 1

GENERAL SUBSTRATE NOTE: DO NOT ALLOW SHEATHING EDGES TO ALIGN WITH THE JAMBS. PROVIDE POSITIVE SLOPE AT SILL.

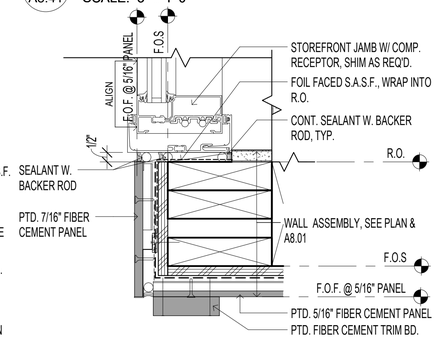
1A: VERIFY R.O. SIZE & CHECK FOR LEVEL, SQUARE AND PLUMB. VERIFY BOARDS ABUT TO SQUARE CORNERS. PROVIDE POSITIVE SLOPE TO EXTERIOR AT SILL.



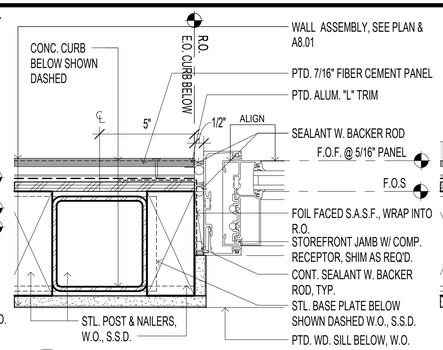
18 A8.41 TYP. STOREFRONT FLASHING SEQUENCE (LOUVER SIM.)
SCALE: 1/4" = 1'-0"



12 A8.41 STRFRNT DR. JAMB @ INSIDE CORNER
SCALE: 3" = 1'-0"



11 A8.41 STRFRNT JAMB @ OUTSIDE CORNER
SCALE: 3" = 1'-0"



8 A8.41 STOREFRONT JAMB @ REVEAL PANEL
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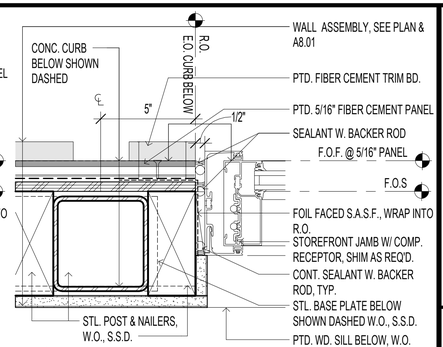

4 A8.41 STOREFRONT JAMB @ BD. & BATTEN
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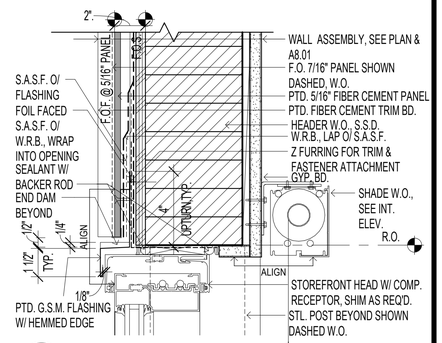
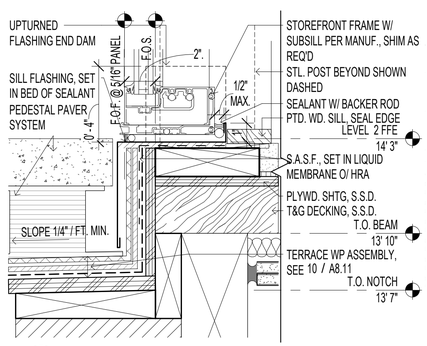


3 A8.41 TYP. STOREFRONT HEAD
SCALE: 3" = 1'-0"



9 A8.41 STOREFRONT SILL @ TERRACE
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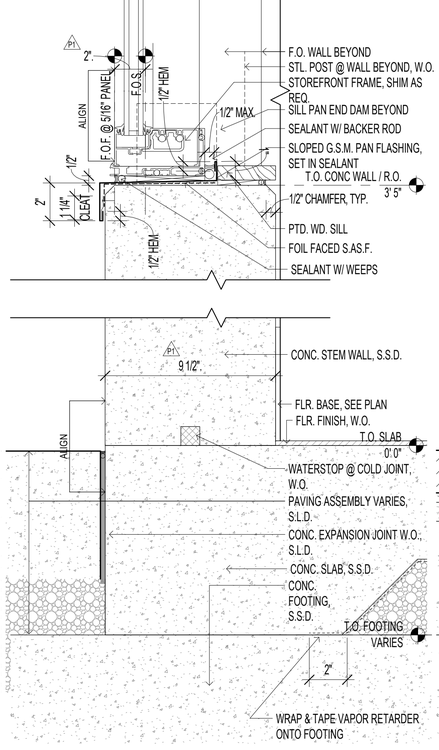

5 A8.41 STOREFRONT SILL @ STEM WALL
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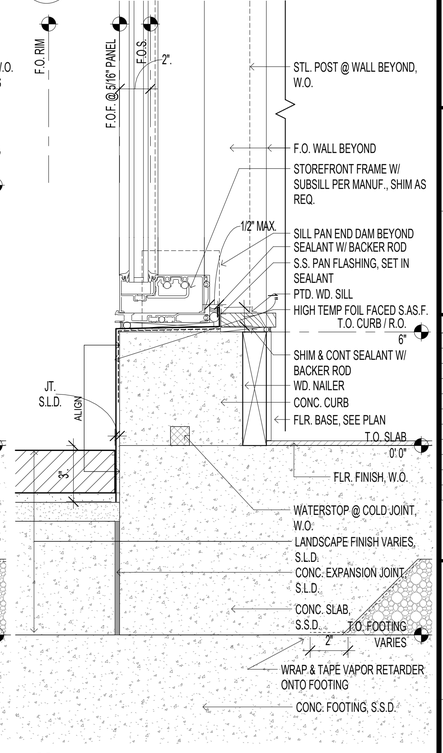

1 A8.41 STOREFRONT SILL @ CURB (L 1)
SCALE: 3" = 1'-0"

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title
EXT. DTLS.
STOREFRONT

Drawing No.
A8.41

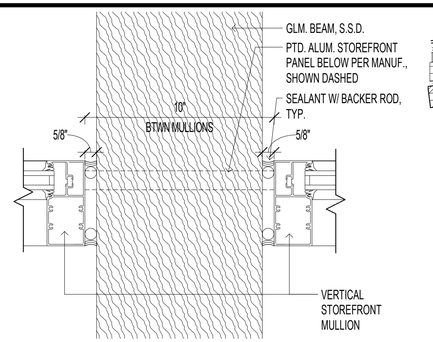
Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/18/2022 6:13:30 PM

DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



3 A8.42 BM. PENETRATION @ STOREFRONT
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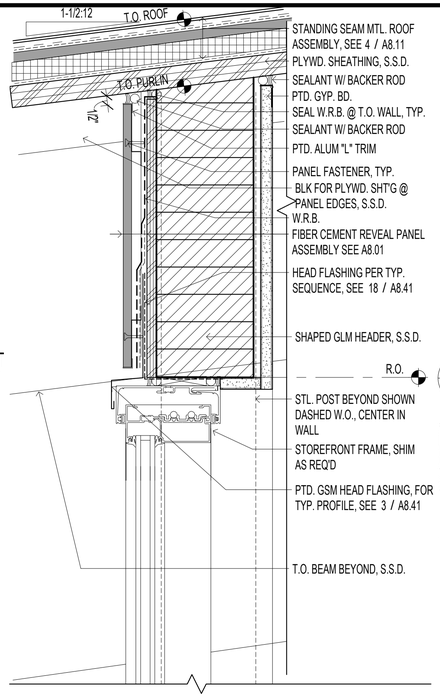
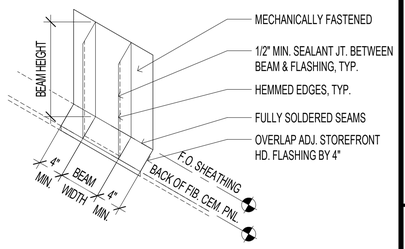


7 A8.42 STOREFRONT @ ROOF (SOUTH ELEV.)
SCALE: 3" = 1'-0"



4 A8.42 FLASHING @ BEAM PENETRATION
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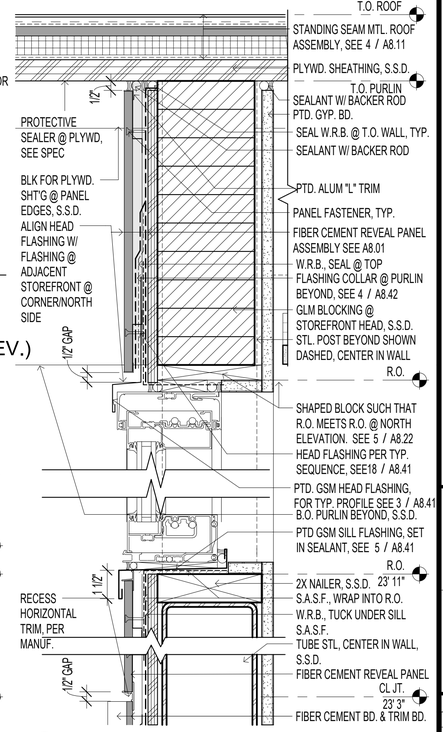
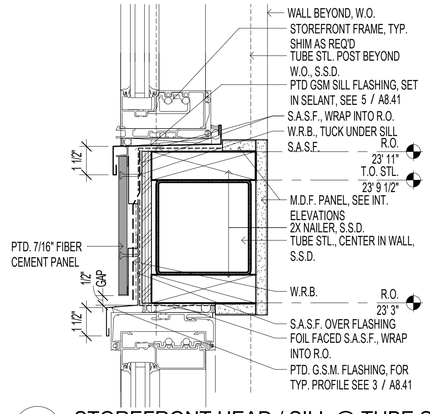
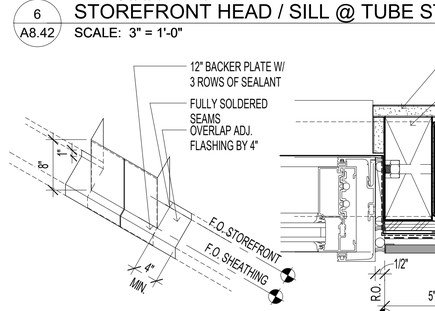


2 A8.42 STOREFRONT HEAD @ CLERESTORY
SCALE: 3" = 1'-0"



6 A8.42 STOREFRONT HEAD / SILL @ TUBE STL.
SCALE: 3" = 1'-0"



5 A8.42 STOREFRONT JAMB SADDLE FLASHING
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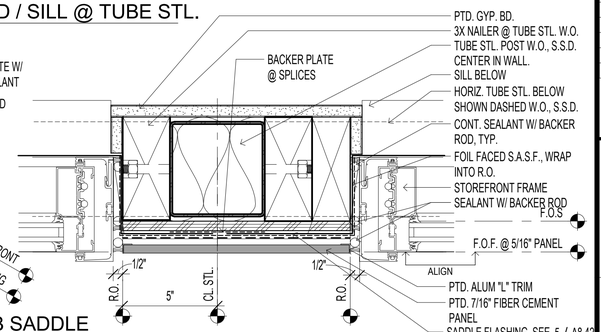

1 A8.42 STOREFRONT JAMBS @ REVEAL PNL
SCALE: 3" = 1'-0"

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NO. C 33368
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Project Information
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Drawing Title
EXT. DTLS. - STOREFRONT & CANOPIES

Drawing No.
A8.42

Sheet No.

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LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/18/2022 6:13:32 PM

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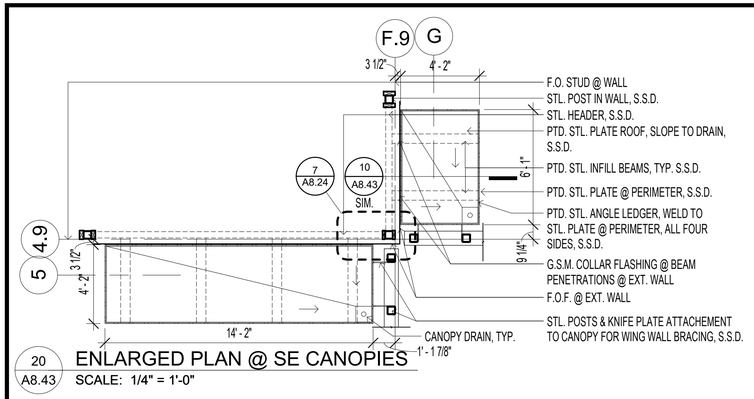
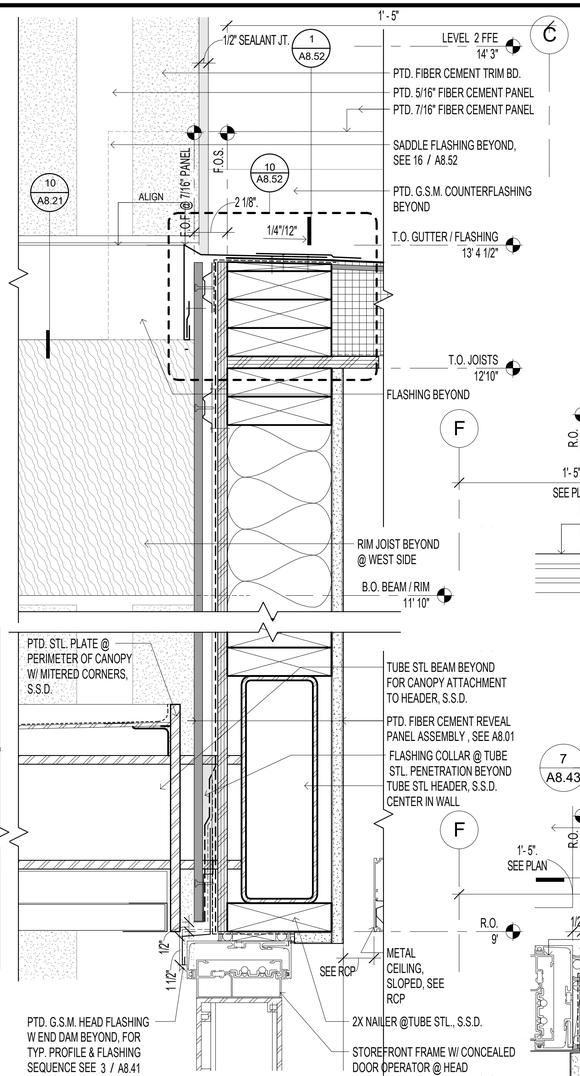


20 A8.43 ENLARGED PLAN @ SE CANOPIES
SCALE: 1/4" = 1'-0"



10 A8.43 SECTION @ TYP. CANOPY
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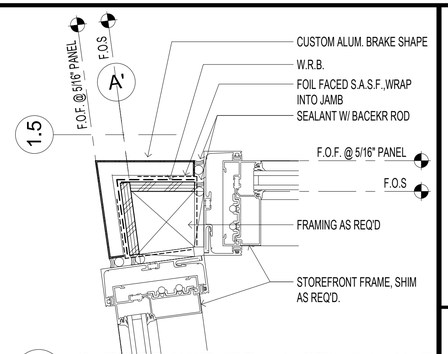
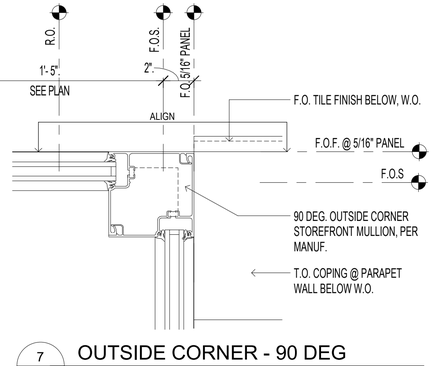
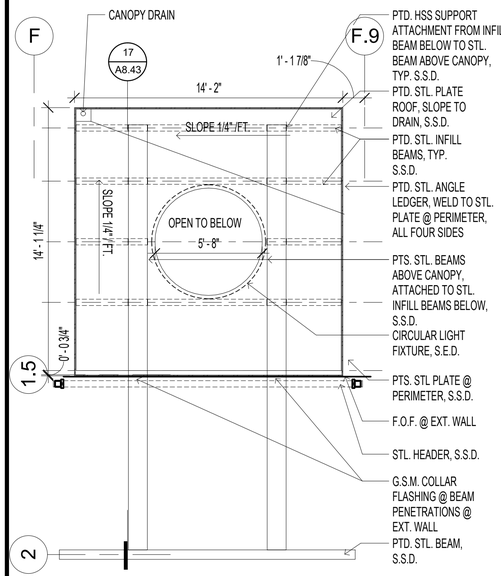


4 A8.43 OUTSIDE CORNER - CUSTOM ANGLE
SCALE: 3" = 1'-0"



7 A8.43 OUTSIDE CORNER - 90 DEG
SCALE: 3" = 1'-0"



18 A8.43 ENLARGED PLAN @ MAIN ENTRY CANOPY
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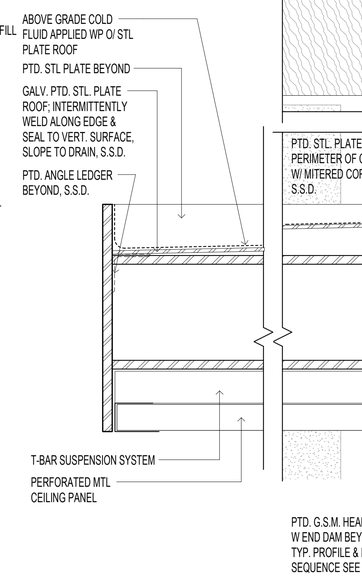
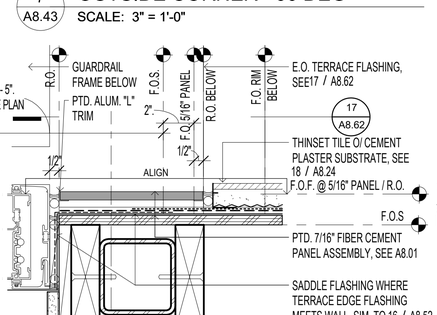
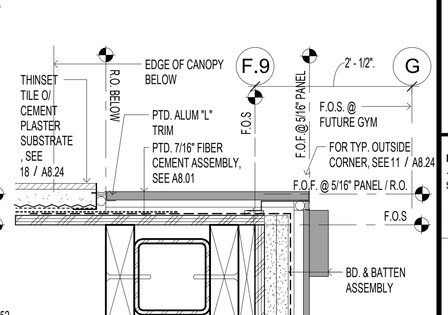


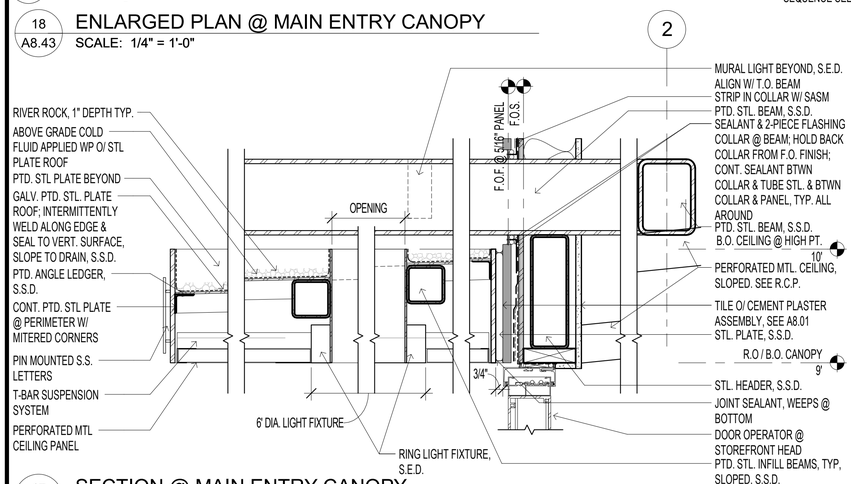
17 A8.43 SECTION @ MAIN ENTRY CANOPY
SCALE: 1 1/2" = 1'-0"

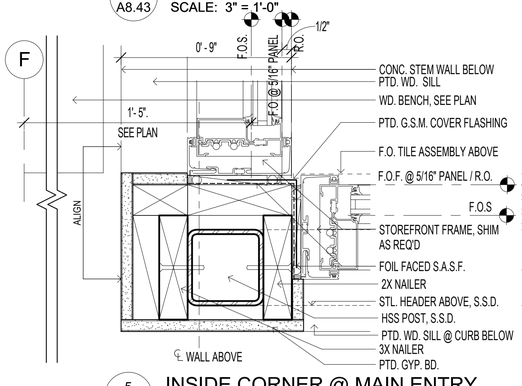


6 A8.43 PLAN @ TERRACE OUTSIDE CORNER
SCALE: 3" = 1'-0"

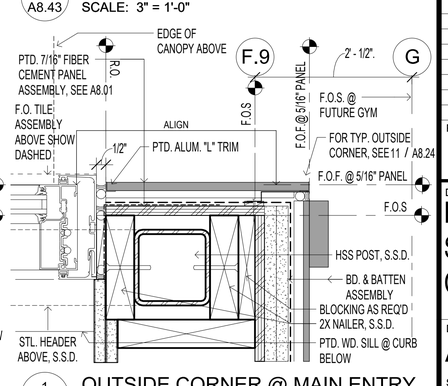


2 A8.43 OUTSIDE CORNER AT PARAPET WALL
SCALE: 3" = 1'-0"





5 A8.43 INSIDE CORNER @ MAIN ENTRY
SCALE: 3" = 1'-0"



1 A8.43 OUTSIDE CORNER @ MAIN ENTRY
SCALE: 3" = 1'-0"

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Drawing Title
EXT. DTLS. - STOREFRONT & CANOPIES

Drawing No.
A8.43

Sheet No.

LMSA PROJECT NUMBER: 1902
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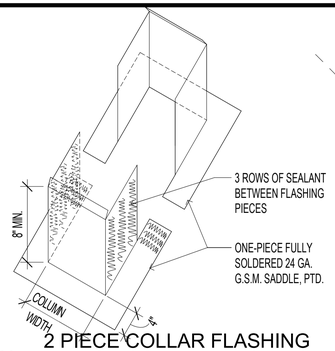
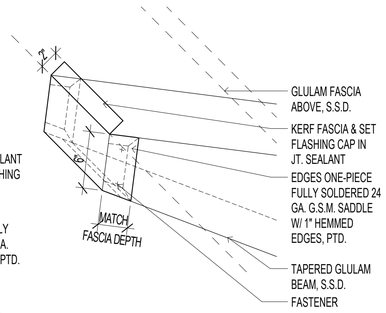
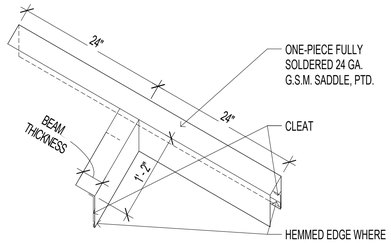


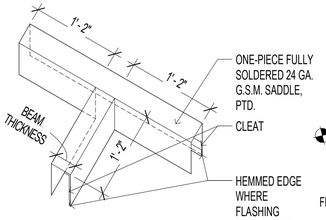
20 A8.51 2 PIECE COLLAR FLASHING AXON
SCALE: 1" = 1'-0"



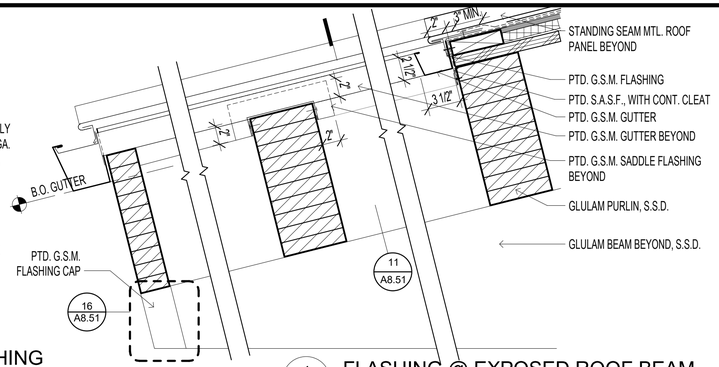
16 A8.51 FLASHING CAP AT BEAM ENDS
SCALE: 1 1/2" = 1'-0"



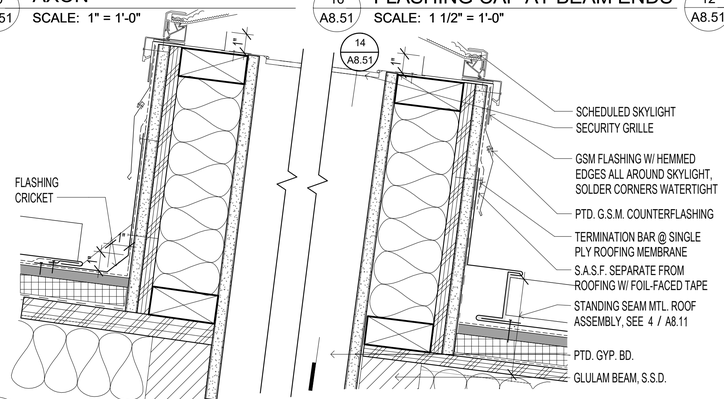
12 A8.51 FLASHING @ FASCIA BEAM TO ROOF
SCALE: 1" = 1'-0"



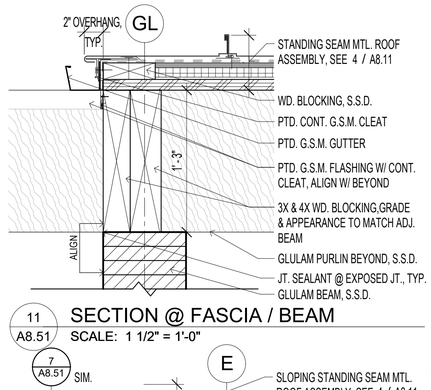
8 A8.51 T-SHAPED FASCIA FLASHING
SCALE: 1" = 1'-0"



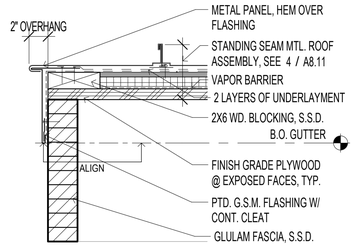
4 A8.51 FLASHING @ EXPOSED ROOF BEAM
SCALE: 1 1/2" = 1'-0"



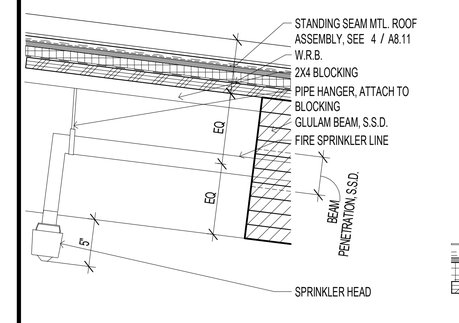
19 A8.51 SECTION @ SKYLIGHT CURB - SLOPING METAL ROOF
SCALE: 3" = 1'-0"



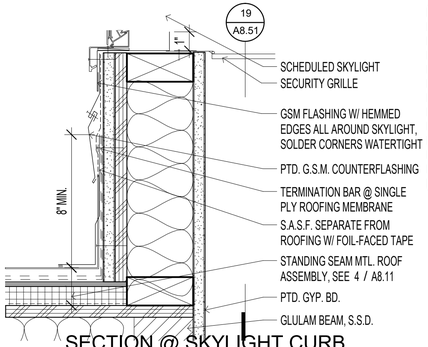
11 A8.51 SECTION @ FASCIA / BEAM
SCALE: 1 1/2" = 1'-0"



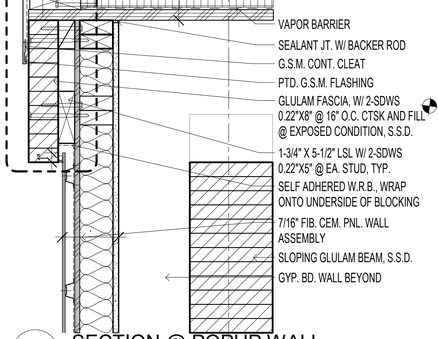
7 A8.51 SECTION @ FASCIA
SCALE: 1 1/2" = 1'-0"



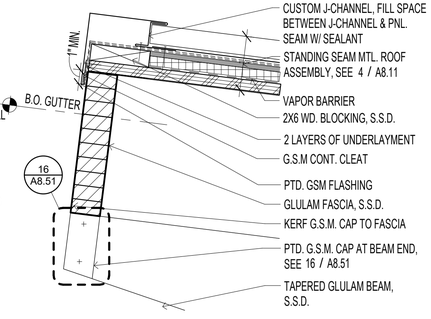
18 A8.51 EXT. SPRINKLER @ BEAM
SCALE: 1 1/2" = 1'-0"



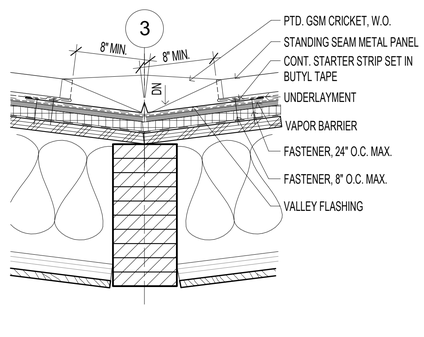
14 A8.51 SECTION @ SKYLIGHT CURB METAL ROOF
SCALE: 3" = 1'-0"



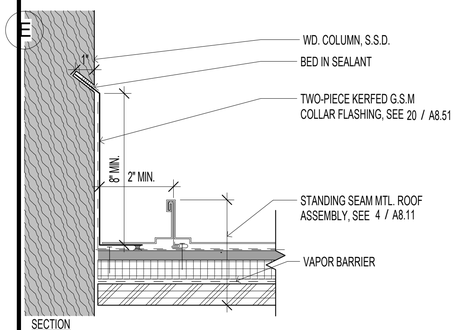
10 A8.51 SECTION @ POPUP WALL
SCALE: 1 1/2" = 1'-0"



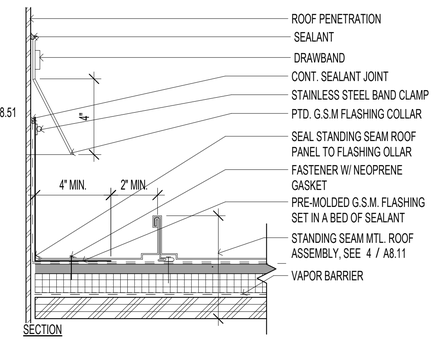
6 A8.51 SECTION @ HIGH EAVE
SCALE: 1 1/2" = 1'-0"



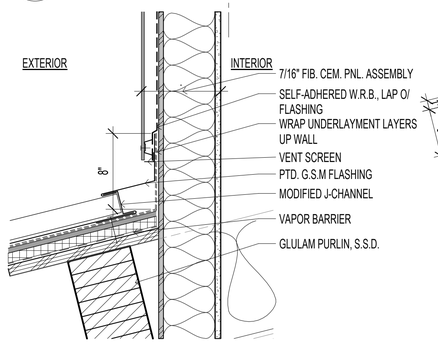
2 A8.51 SECTION @ ROOF VALLEY
SCALE: 1 1/2" = 1'-0"



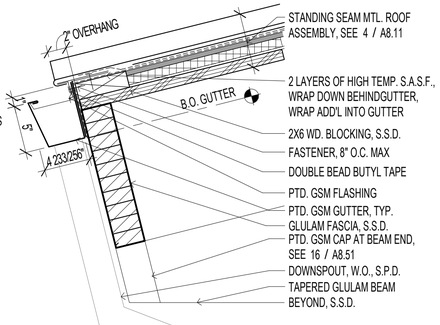
17 A8.51 COL. PENETRATION @ ROOF
SCALE: 3" = 1'-0"



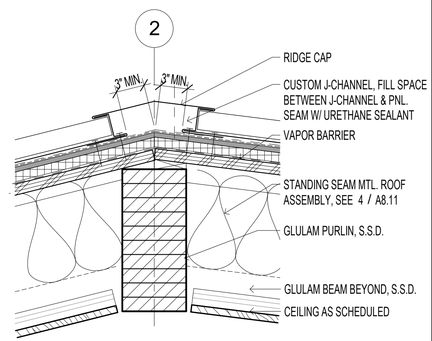
13 A8.51 TYP. PENETRATION @ METAL ROOF
SCALE: 3" = 1'-0"



9 A8.51 WALL TO MTL. ROOF TRANSITION
SCALE: 1 1/2" = 1'-0"



5 A8.51 SECTION @ EAVE / GUTTER
SCALE: 1 1/2" = 1'-0"



1 A8.51 SECTION @ RIDGE
SCALE: 1 1/2" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT RYAN JANG NO. C 33368 REN 6/30/2023 STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

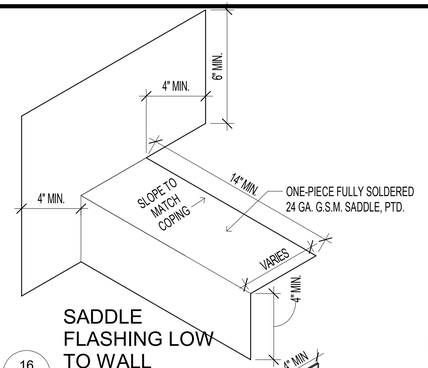
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
EXT. DTLS. - METAL ROOF

Drawing No.
A8.51

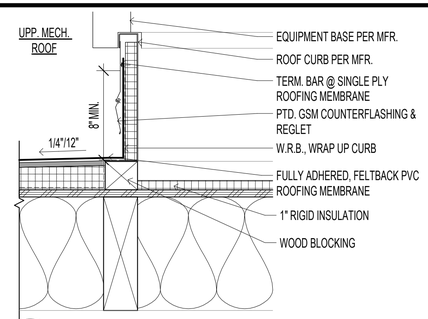
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSs PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:38 PM
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



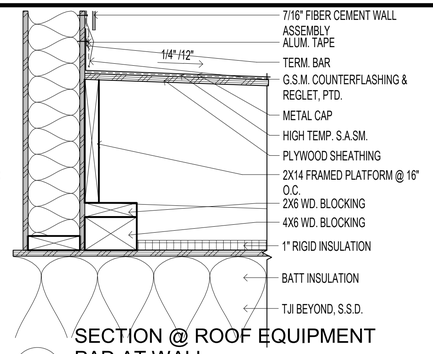
SADDLE FLASHING LOW TO WALL

16 A8.52 SCALE: 3" = 1'-0"



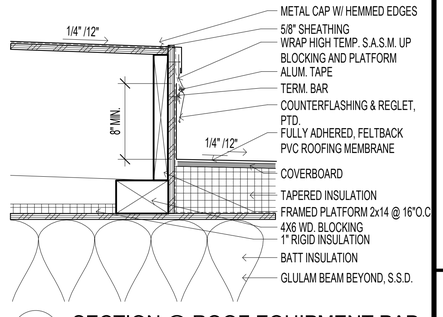
12 A8.52 SCALE: 1 1/2" = 1'-0"

SECTION @ MECH. ROOF CURB



8 A8.52 SCALE: 1 1/2" = 1'-0"

SECTION @ ROOF EQUIPMENT PAD AT WALL

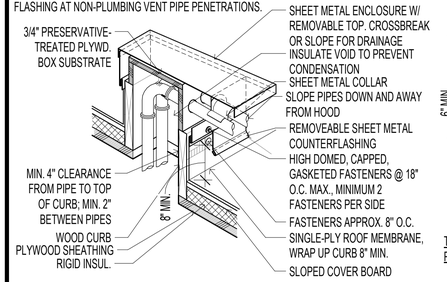


4 A8.52 SCALE: 1 1/2" = 1'-0"

SECTION @ ROOF EQUIPMENT PAD

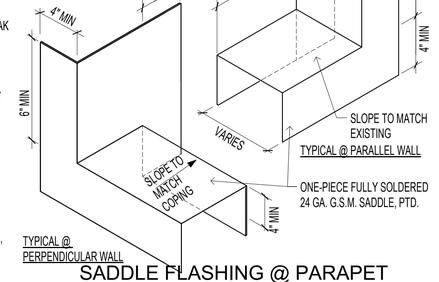
NOTE: 12" MIN. CLEAR TYPICAL BETWEEN GANGED PIPE PENETRATIONS

SEAL TERMINATION OF SHT. MTL. COLLAR (SLEEVE) W/ UNCURED NEOPRENE. EXTEND 4" ONTO PIPE AND SLEEVE AND SET IN BONDING ADHESIVE. COAT NEOPRENE W/ W.P. COATING, LAP COATING ONTO PIPE AND SLEEVE. CONT. BEAD POLYURETHANE SEALANT AT EDGES OF NEOPRENE PRIOR TO COATING.
PROVIDE WATERTIGHT 24 GA. GSM RAIN COLLAR FLASHING AT NON-PLUMBING VENT PIPE PENETRATIONS.



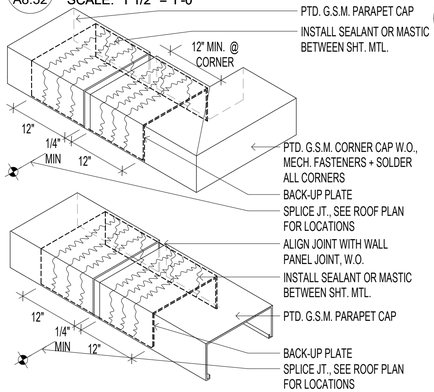
19 A8.52 SCALE: 3" = 1'-0"

TYP. SHT. MTL. ENCL. @ MULTIPLE PIPES



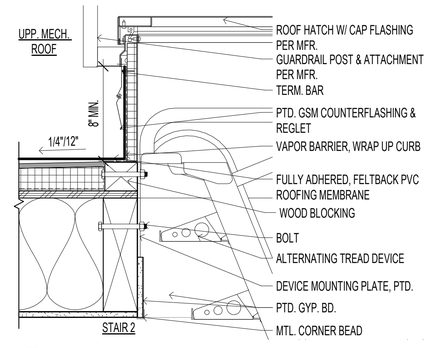
SADDLE FLASHING @ PARAPET TO WALL

A8.52 SCALE: 3" = 1'-0"



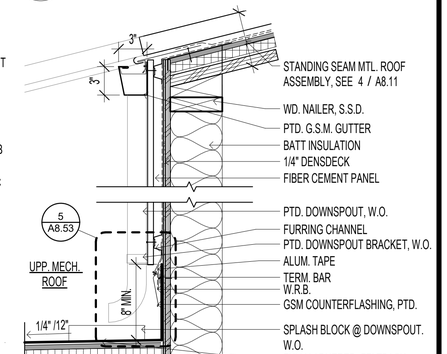
11 A8.52 SCALE: 3" = 1'-0"

TYP. PARAPET CAP JOINT AXON



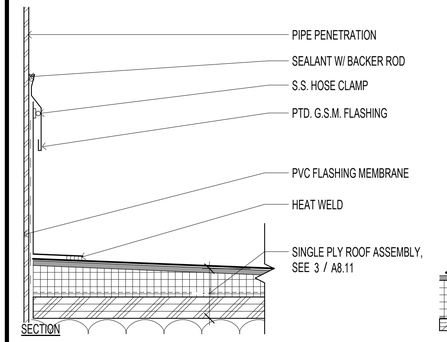
7 A8.52 SCALE: 1 1/2" = 1'-0"

SECTION @ ROOF ACCESS HATCH



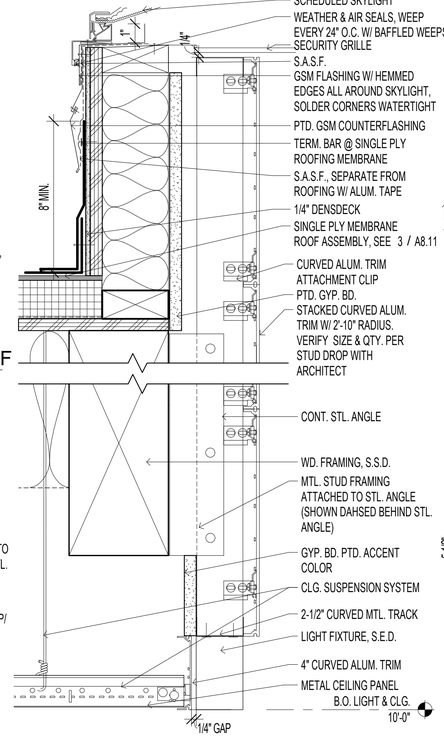
3 A8.52 SCALE: 1 1/2" = 1'-0"

WALL @ UPP. MECH. ROOF



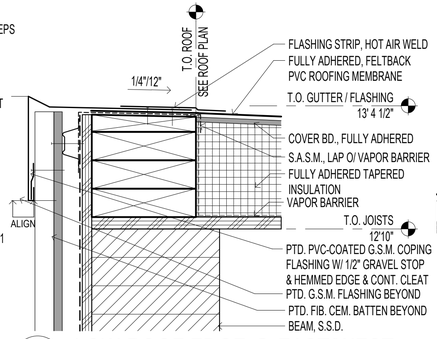
18 A8.52 SCALE: 3" = 1'-0"

TYP. PIPE PEN. @ SINGLE PLY ROOF



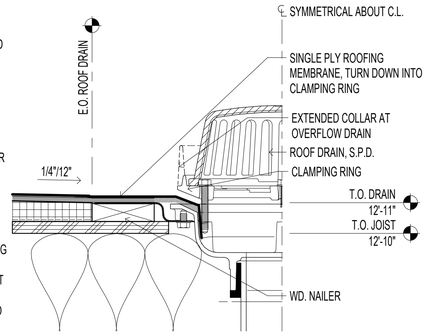
13 A8.52 SCALE: 3" = 1'-0"

SECTION @ SKYLIGHT CURB



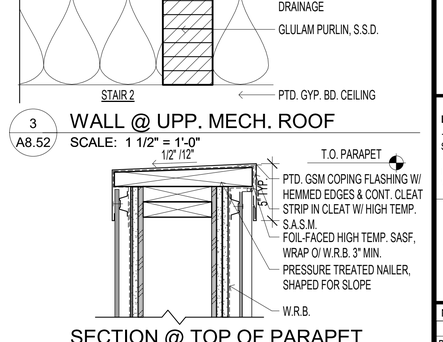
10 A8.52 SCALE: 3" = 1'-0"

LOW ROOF EDGE @ EAST/WEST



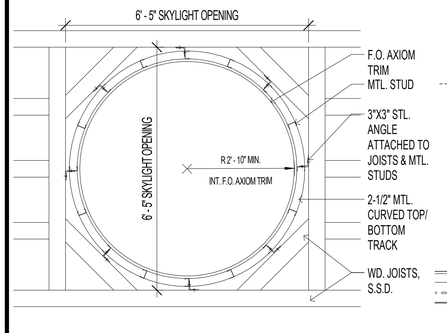
6 A8.52 SCALE: 3" = 1'-0"

TYP. SECTION @ ROOF DRAIN



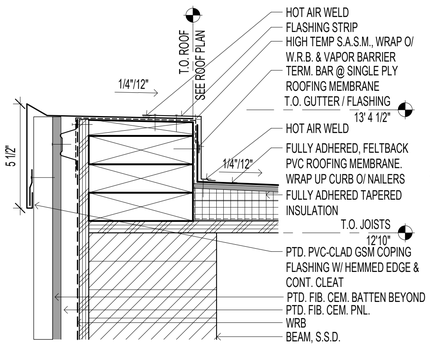
2 A8.52 SCALE: 1 1/2" = 1'-0"

SECTION @ TOP OF PARAPET WALL / COPING



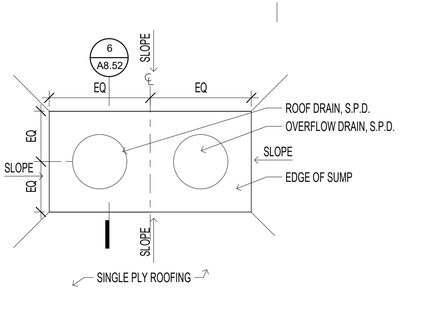
17 A8.52 SCALE: 1/2" = 1'-0"

CIRCULAR SKYLIGHT FRAMING



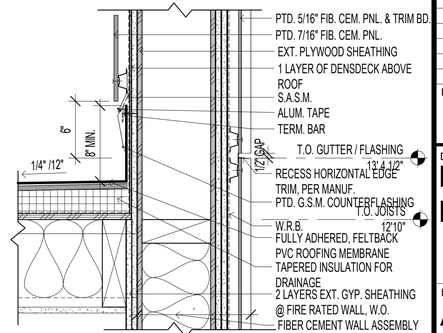
9 A8.52 SCALE: 3" = 1'-0"

LOW ROOF EDGE, TYP.



5 A8.52 SCALE: 1/2" = 1'-0"

TYP. PLAN @ ROOF DRAIN



1 A8.52 SCALE: 1 1/2" = 1'-0"

BASE OF WALL @ MECH. ROOF

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT RYAN JANG NO. C 33368 REN 6/30/2023 STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
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P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
EXT. DTLS. - SINGLE PLY ROOF

Drawing No.
A8.52

Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/18/2022 6:13:41 PM

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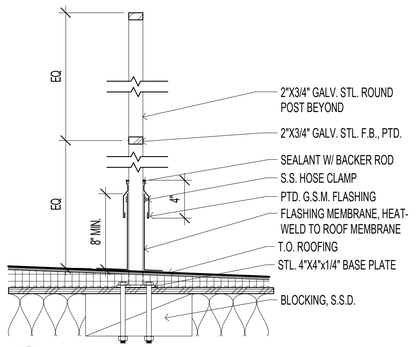
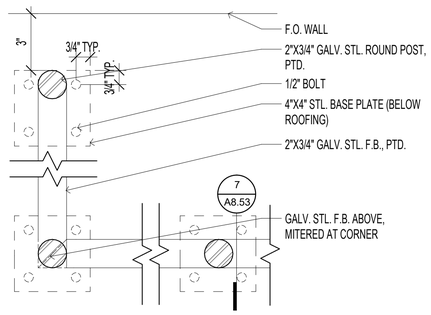


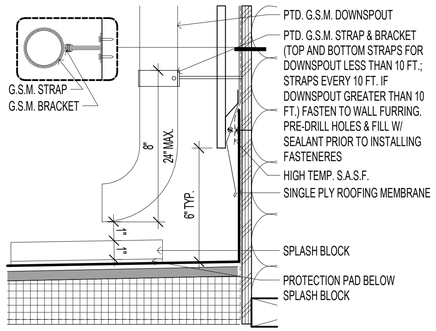
7 A8.53 SECTION @ OSHA GUARDRAIL

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



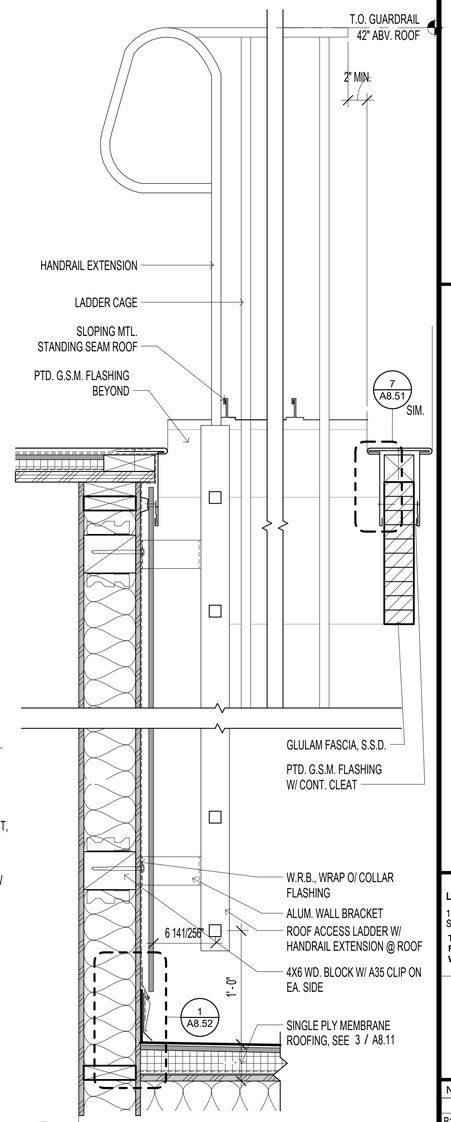
6 A8.53 PLAN @ OSHA GUARDRAIL

SCALE: 3" = 1'-0"



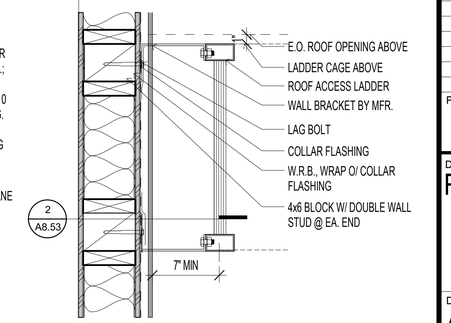
5 A8.53 TYP. SECTION @ DOWNSPOUT

SCALE: 3" = 1'-0"



2 A8.53 SECTION @ ROOF ACCESS LADDER

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



1 A8.53 PLAN DETAIL @ EXT. ROOF ACCESS LADDER

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

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LICENSED ARCHITECT
RYAN JANG
NO. C 33368
REN 6/30/2023
STATE OF CALIFORNIA

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Project Information
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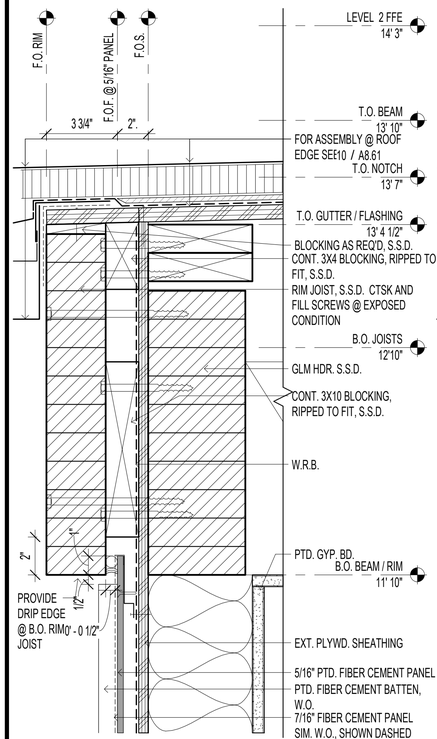
1003625

Drawing Title
ROOF DETAILS

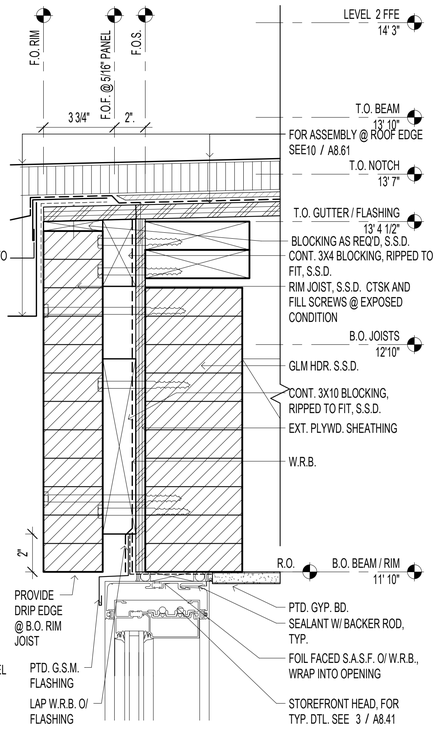
Drawing No.
A8.53

Sheet No.



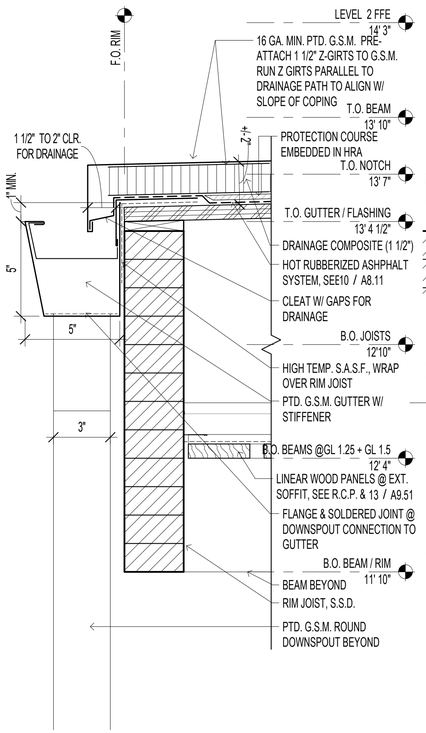
18 A8.61 BD. & BATTEN @ RIM JOIST @ NORTH

SCALE: 3" = 1'-0"



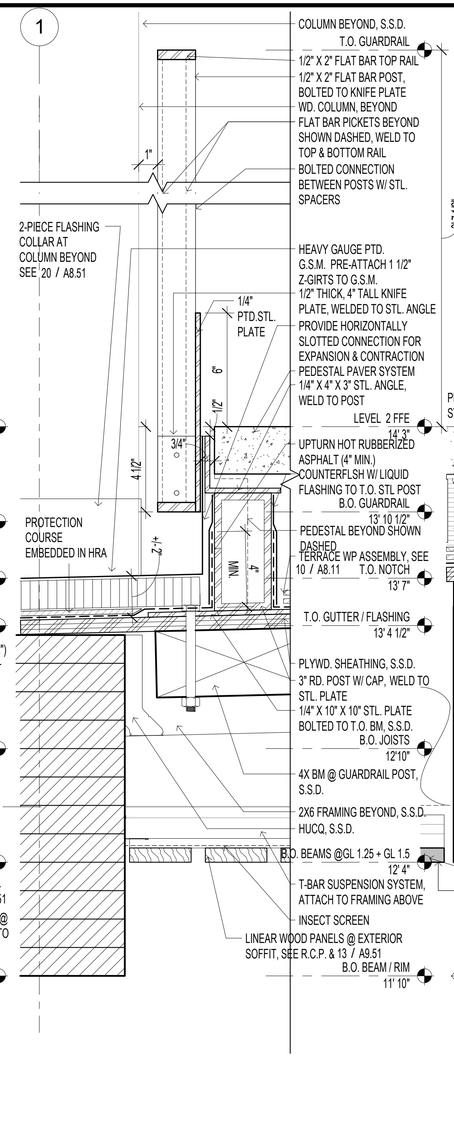
14 A8.61 STOREFRONT HEAD @ RIM JOIST

SCALE: 3" = 1'-0"



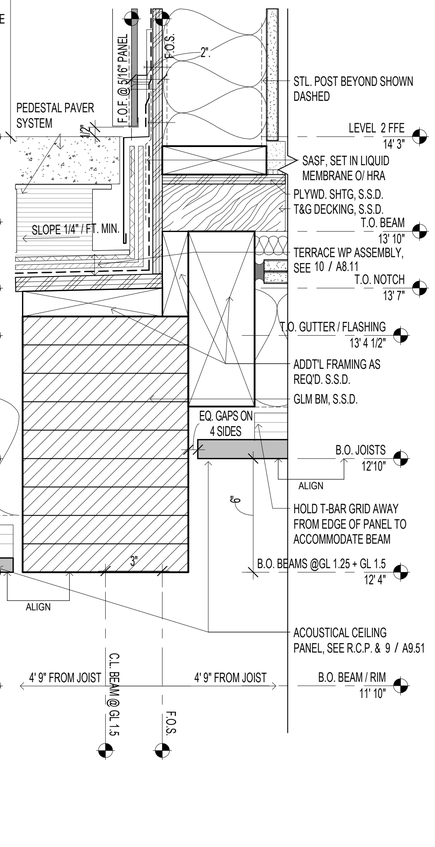
10 A8.61 SECTION @ NORTH TERRACE EDGE

SCALE: 3" = 1'-0"



6 A8.61 SECTION @ TERRACE GUARDRAIL

SCALE: 3" = 1'-0"



2 A8.61 BD. AND BATTEN SILL @ TERRACE

SCALE: 3" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT
RYAN JANG
NO. C 33368
REN 6/30/2023
STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
EXT. DTLS. - TERRACE & GUARDRAIL

Drawing No.
A8.61

Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/18/2022 6:13:45 PM

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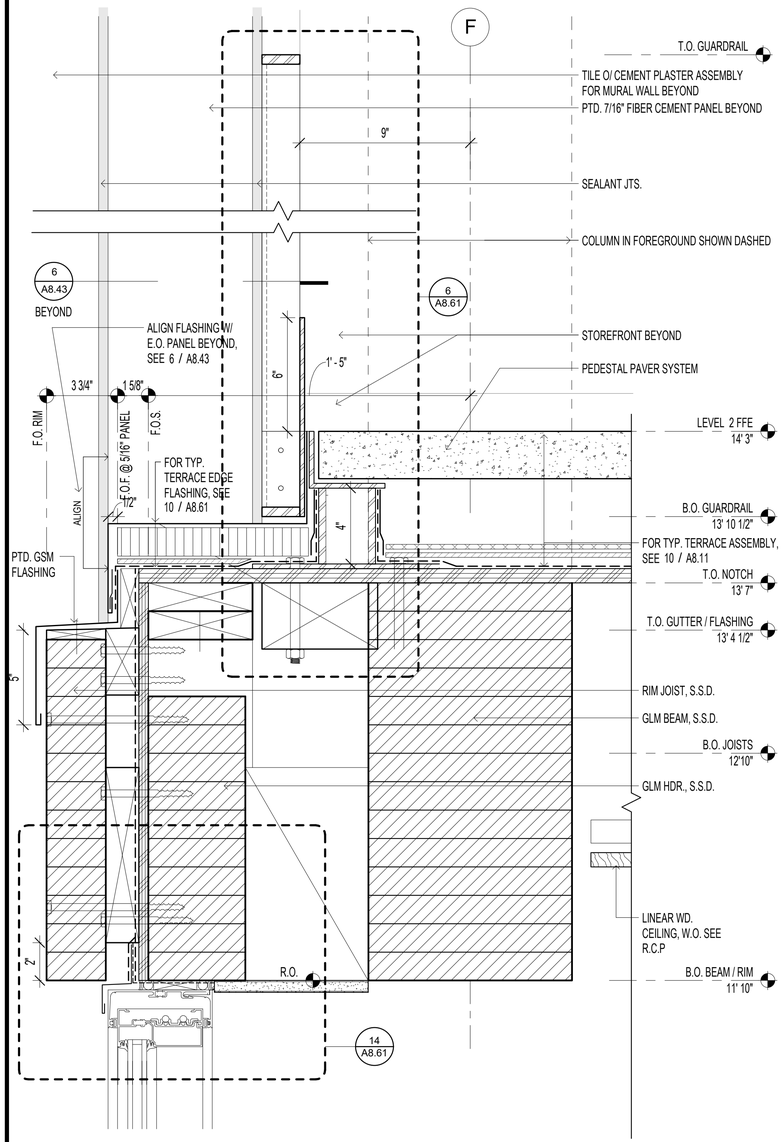
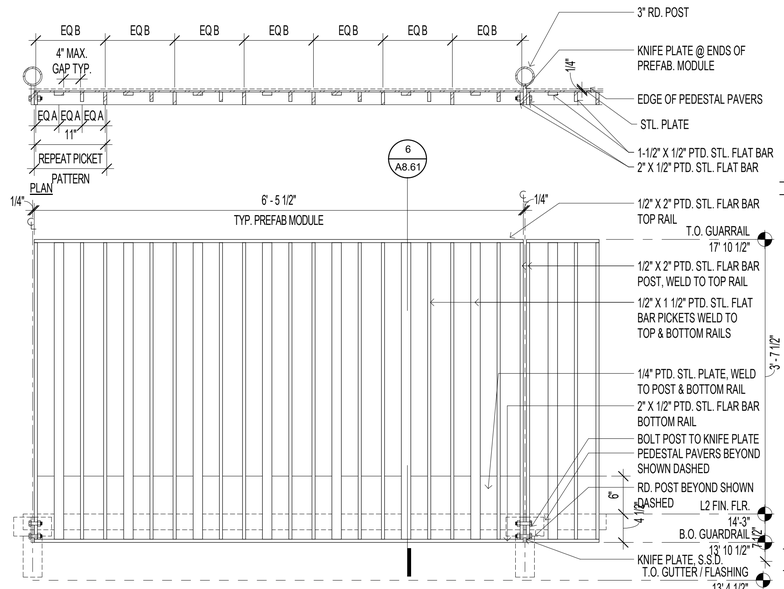
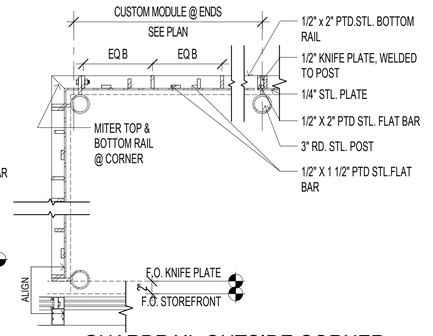


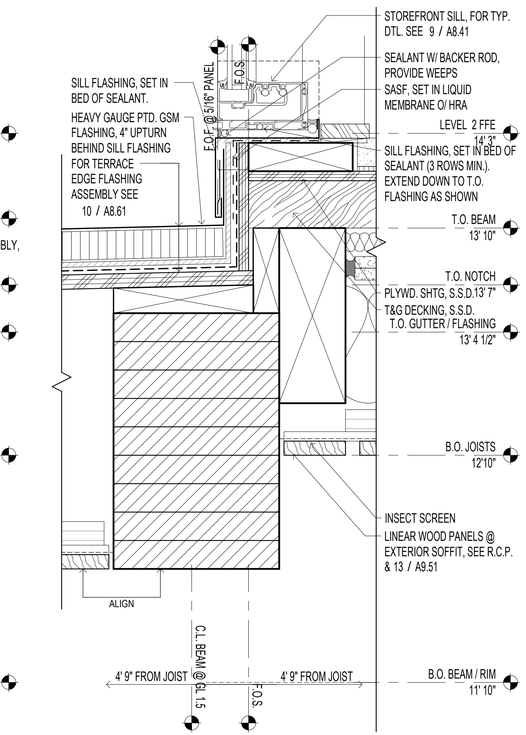
17 A8.62 TERRACE EDGE @ ENTRANCE
SCALE: 3" = 1'-0"



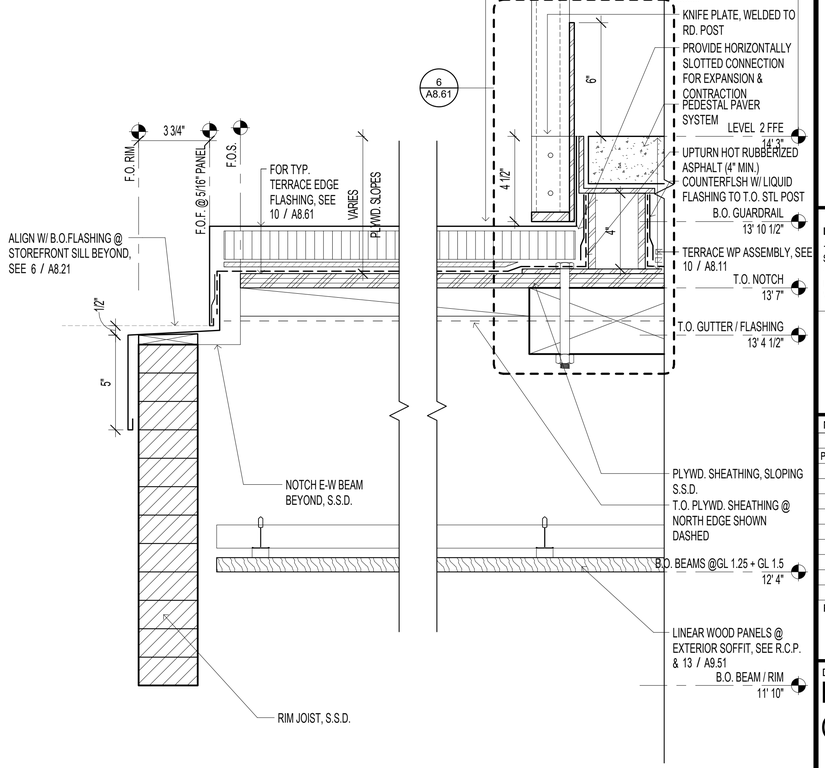
11 A8.62 EXT. GUARDRAIL - PLAN & ELEV.
SCALE: 1" = 1'-0"



4 A8.62 GUARDRAIL OUTSIDE CORNER & TERMINATION @ WALL
SCALE: 1" = 1'-0"



9 A8.62 STOREFRONT SILL @ FLASHING
SCALE: 3" = 1'-0"



5 A8.62 TERRACE EDGE @ WEST
SCALE: 3" = 1'-0"

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Drawing Title
EXT. DTLS. - TERRACE & GUARDRAIL

Drawing No.
A8.62

Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:47 PM
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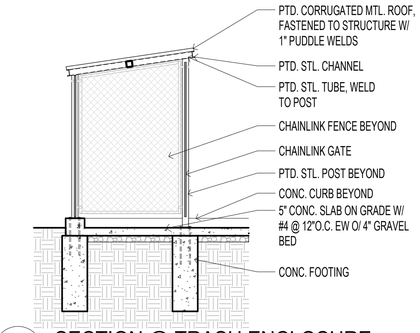
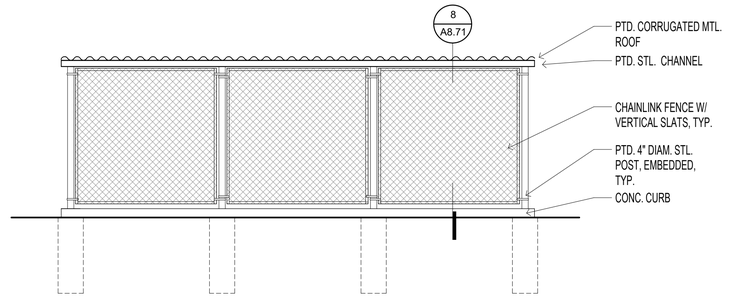
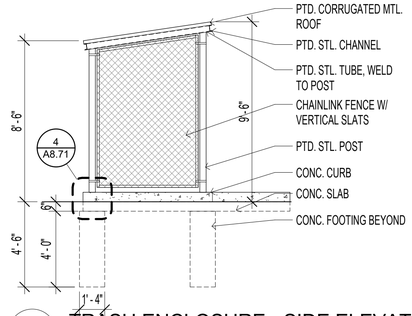


8 A8.71 SECTION @ TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"



5 A8.71 TRASH ENCLOSURE - BACK ELEVATION
SCALE: 1/4" = 1'-0"



7 A8.71 TRASH ENCLOSURE - SIDE ELEVATION
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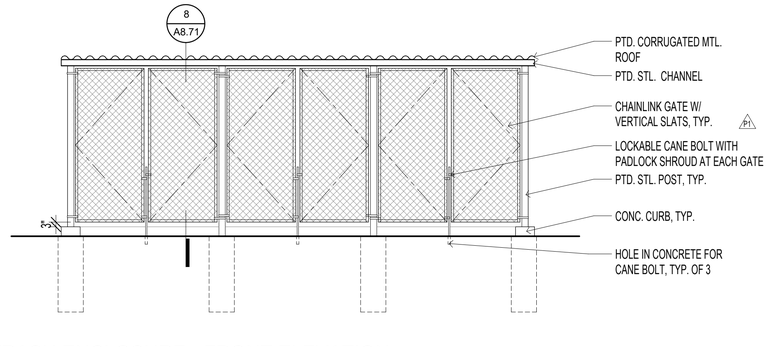

3 A8.71 TRASH ENCLOSURE - FRONT ELEVATION
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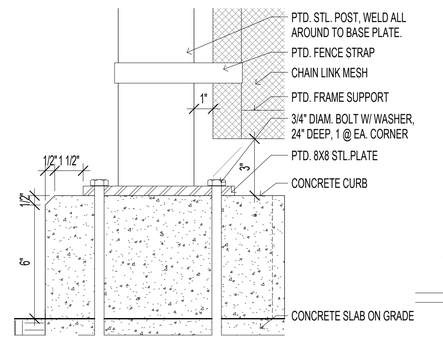

4 A8.71 BASE ATTACHMENT
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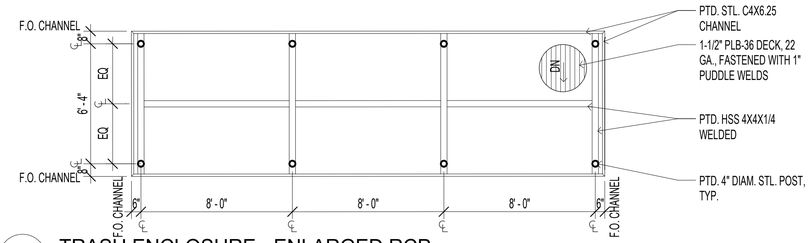

2 A8.71 TRASH ENCLOSURE - ENLARGED RCP
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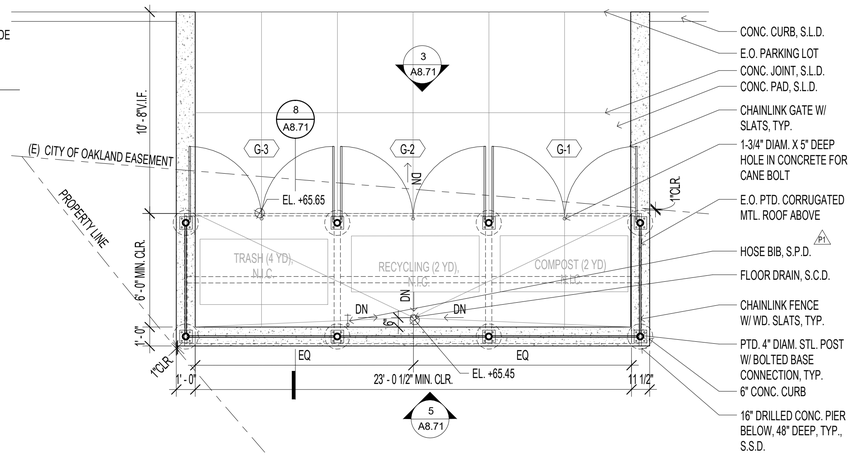

1 A8.71 TRASH ENCLOSURE - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

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Drawing Title
EXT. DTLS. - SITE

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A8.71

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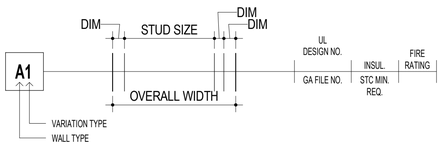
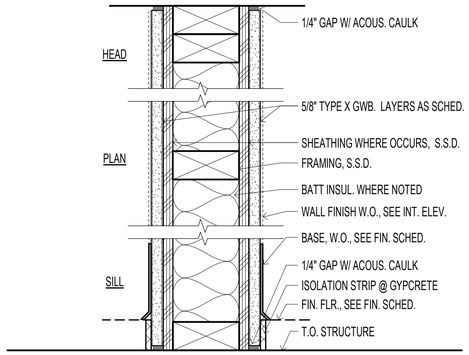


GENERAL NOTES

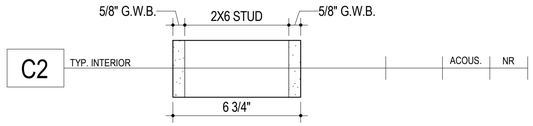
1. REFER TO FLOOR PLANS FOR PARTITION TYPES.
2. STRUCTURAL FRAMING: S.S.D. FOR FRAMING DIMENSIONS, SPACING, DETAILS AND SCHEDULES. VERIFY ALL STUD SIZES SHOWN ON PARTITION SCHEDULE W/ STRUCTURAL PLANS & DETAILS.
3. ALL STUD PARTITIONS ARE TO EXTEND TO UNDERSIDE OF DECKING, U.O.N.
4. PROVIDE BACKING TO SUPPORT ALL ITEMS MOUNTED TO WALLS, SEE DETAILS
5. "GYP. BD." & "G.W.B." TO BE TYPE "X" AT ALL LOCATIONS, U.O.N.
6. FIRE RATED ASSEMBLY NOTES REFER TO THE FOLLOWING REFERENCES:
   A. GA. FILE NO - GYPSUM, ASSOCIATION "FIRE RESISTANCE DESIGN MANUAL" 21ST EDITION
   B. CBC TABLE 721.1(1)-b2019 CALIFORNIA BUILDING CODE/ "RATED FIRE-RESISTIVE PERIODS FOR VARIOUS WALLS & PARTITIONS"
   C. UL DESIGN NO. -UNDERWRITERS LABORATORIES INC. / "FIRE RESISTANCE, VOL. 1" (CURRENT VOLUME)
7. ALL FIRE RESISTIVE ASSEMBLIES SHALL BE CONSTRUCTED IN COMPLIANCE WITH TESTING REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS FOR CONDITIONS AS REQUIRED. CONSTRUCTION OF ALL SYSTEMS WILL BE TO EQUAL THAT OF TESTED ASSEMBLY, PROVIDE FIRE SAFEING AND CAULKING AS REQUIRED AT ALL ASSEMBLY TERMINATIONS AND PENETRATIONS. FIRE-RATED ACOUSTICAL SEALANT TO BE USED AT SOUND AND FIRE-RATED CONDITIONS.
8. DRYWALL CONSTRUCTION SHALL PROVIDE CONTINUOUS CAULKING AT ALL DUCT, PIPE, AND CONDUIT PENETRATIONS THROUGH ASSEMBLIES REQUIRING RATING FOR FIRE OR ACOUSTICAL SEPARATION AS SHOWN ON DRAWGS. SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
9. PROVIDE ACOUSTIC CAULK AT ACOUSTICALLY RATED WALLS.

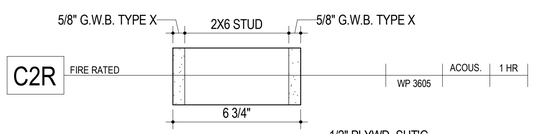
ACOUSTICAL NOTES

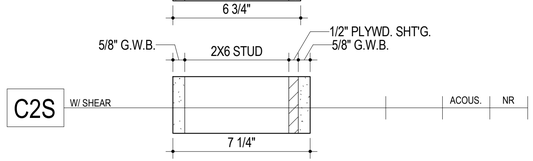
1. FOR INTERIOR WALLS, INCLUDE INSULATION IN WALL BETWEEN ALL INDIVIDUAL ROOMS AND SPACES.
2. SEAL ALL GAPS IN OR AROUND THE WALLS WITH NON HARDENING CAULK.
3. RECESSED PANELS SUCH AS ELECTRICAL PANELS OR FIRE EXTINGUISHERS SHOULD NOT BE LOCATED IN ANY SOUND-RATED WALLS ADACENT TO NOISE- SENSITIVE SPACES.
4. PENETRATIONS (FOR PIPES, CONDUIT, DUCTS ETC.) THROUGH SOUND RATED WALLS MUST BE ACOUSTICALLY SEALED. A 1/2" CLEAR SPACE SHOULD BE MAINTAINED AROUND ALL PENETRATIONS (DUCTS, PIPES ETC). THE VOID SPACE SHOULD BE FILLED WITH FIEBERGLASS OR MINERAL WOOL FOR THE FULL DEPTH OF PENETRATION. BOTH ENDS OF THE CLEAR SPACE SHOULD BE FULLY SEALED WITH A NON HARDENING CAULK OR A NON HARDENING ACOUSTICALLY RATED FIRE SEALANT.
5. ALL ELECTRICAL AND JUNCTION BOXES IN SOUND RATED WALLS (INCLUDING PHONE, CABLE, THERMOSTAT, ETHERNET, LIGHT SWITCHES, ETC.) SHOULD BE BACKED WITH A PUTTY PAD SUCH AS A LOWRY'S OUTLET BOX PAD OR SIMILAR MASTIC MATERIAL IN SHEET FORM. AT THE FRONT OF THE JUNCTION BOX, PERIMETER GAPS BETWEEN THE JUNCTION BOX AND DRYWALL SHOULD BE SEALED WITH NON-HARDENING CAULK.

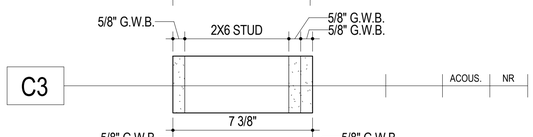


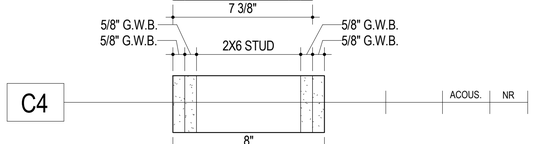
C — INTERIOR WALL, TYP.
WOOD FRAMING

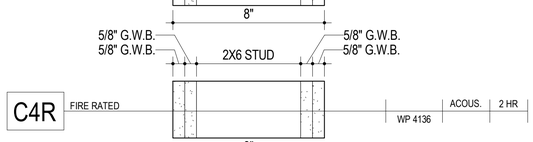


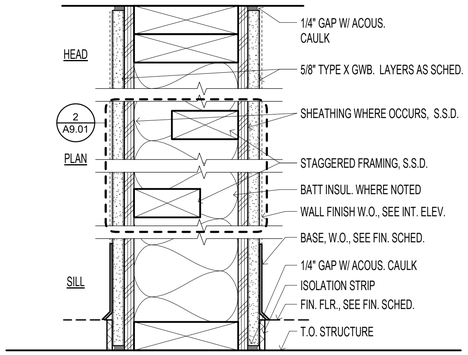




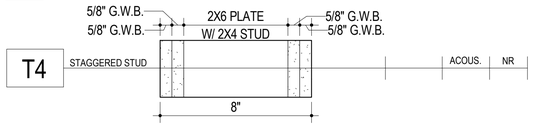


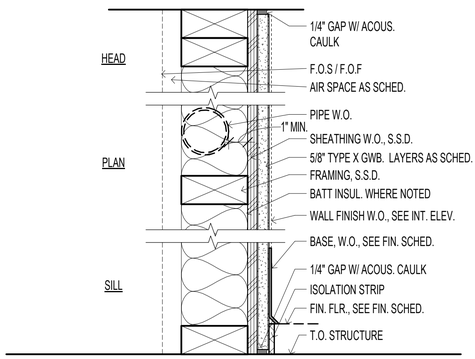




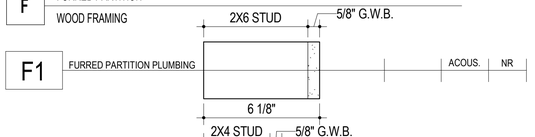


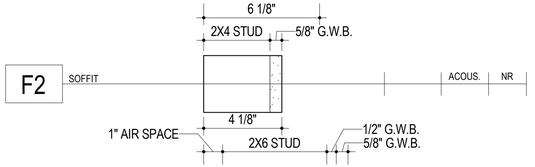
T — INTERIOR WALL STAGGERED STUD
WOOD FRAMING

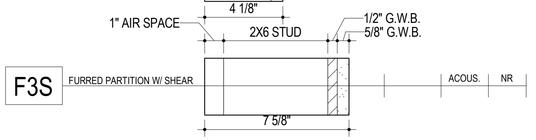


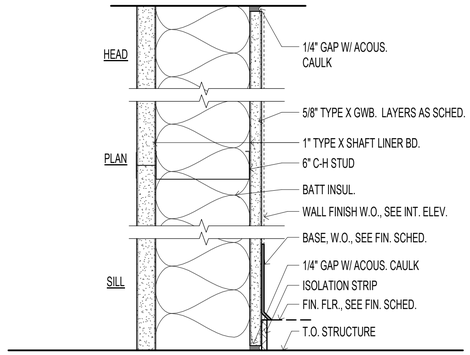


F — FURRED PARTITION
WOOD FRAMING

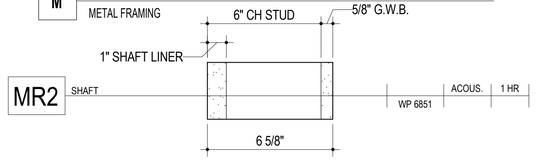


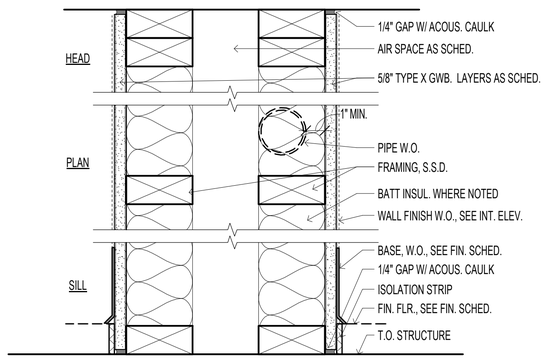




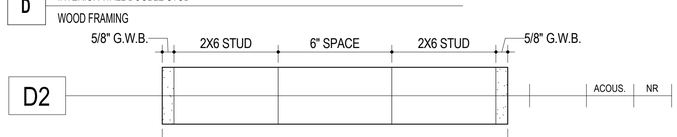


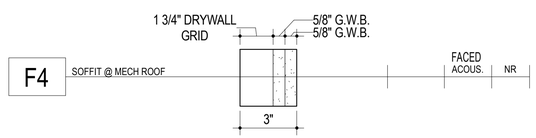
M — SHAFT WALL
METAL FRAMING

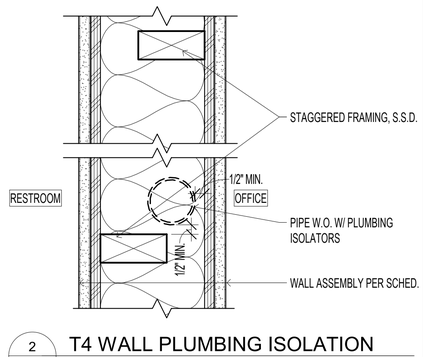




D — INTERIOR WALL DOUBLE STUD
WOOD FRAMING







2 / A9.01 — T4 WALL PLUMBING ISOLATION
SCALE: 3" = 1'-0"

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Drawing Title
SCHEDULE - INTERIOR PARTITIONS

Drawing No.
A9.01
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:31 PM
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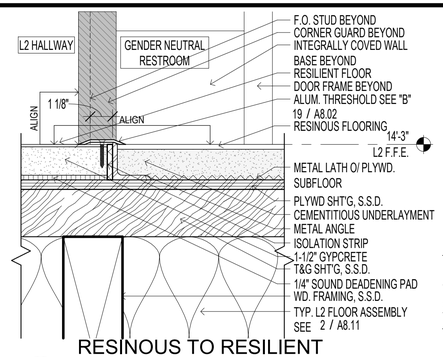
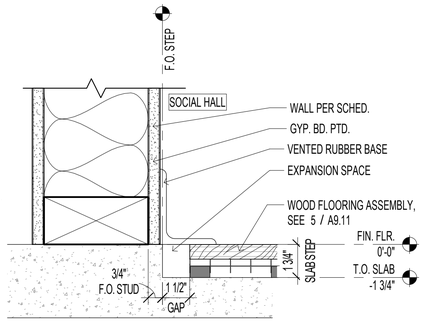


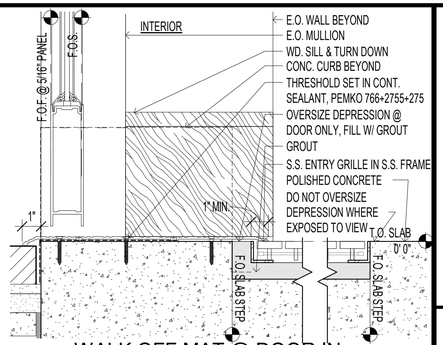
RESINOUS TO RESILIENT FLOOR TRANSITION

12 A9.11 SCALE: 3" = 1'-0"



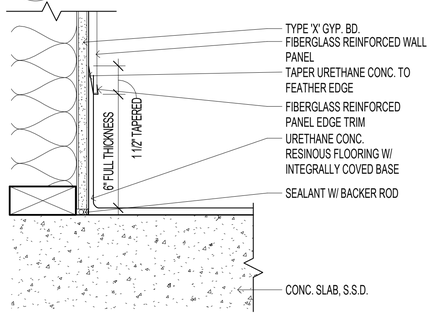
WOOD ATHLETIC FLOORING @ INT. WALL

8 A9.11 SCALE: 3" = 1'-0"



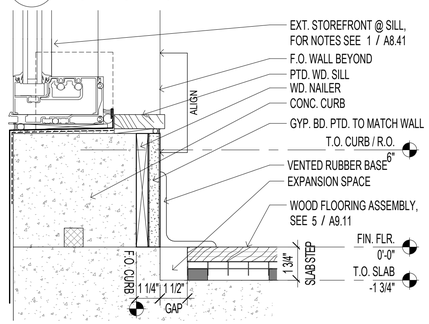
WALK OFF MAT @ DOOR IN E2R2 WALL

4 A9.11 SCALE: 3" = 1'-0"



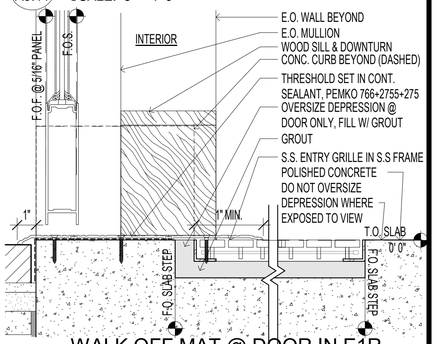
TYP. RESINOUS FLOORING BASE @ F.R.P.

11 A9.11 SCALE: 3" = 1'-0"



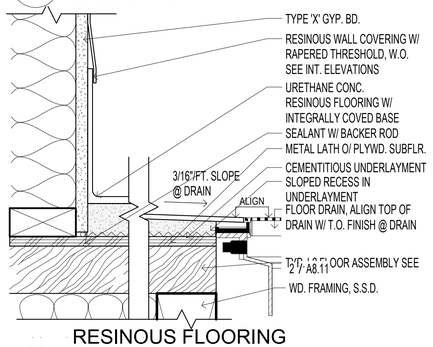
WOOD ATHLETIC FLOORING @ STOREFRONT (EXT. WALL SIM.)

7 A9.11 SCALE: 3" = 1'-0"



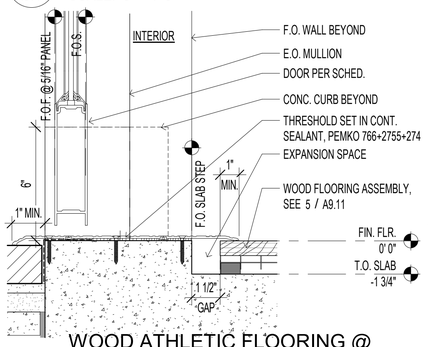
WALK OFF MAT @ DOOR IN E1R WALL

3 A9.11 SCALE: 3" = 1'-0"



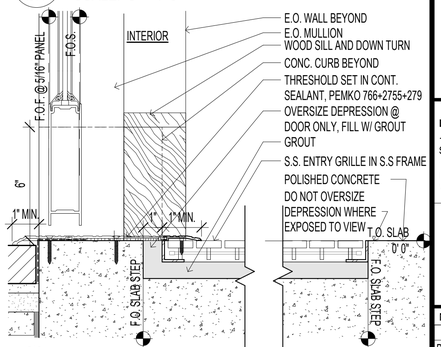
RESINOUS FLOORING ASSEMBLY / BASE / DRAIN @ L2

10 A9.11 SCALE: 3" = 1'-0"



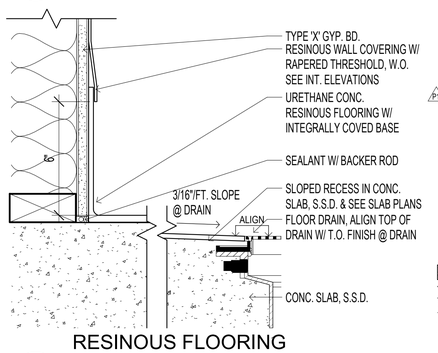
WOOD ATHLETIC FLOORING @ EXT. DOOR

6 A9.11 SCALE: 3" = 1'-0"



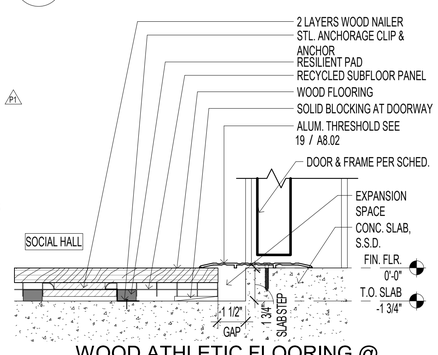
SECTION @ WALK OFF MAT

2 A9.11 SCALE: 3" = 1'-0"



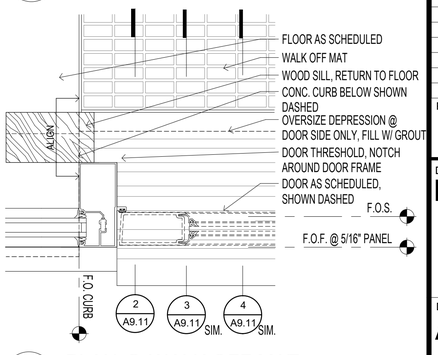
RESINOUS FLOORING ASSEMBLY / BASE / DRAIN @ L1

9 A9.11 SCALE: 3" = 1'-0"



WOOD ATHLETIC FLOORING @ INT. DOOR

5 A9.11 SCALE: 3" = 1'-0"



PLAN @ WALK OFF MAT

1 A9.11 SCALE: 3" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT RYAN JANG NO. C 33368 REN 6/30/2023 STATE OF CALIFORNIA

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - FLOORS

Drawing No.
A9.11

Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:34 PM
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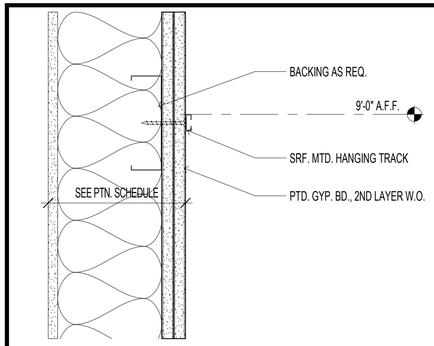
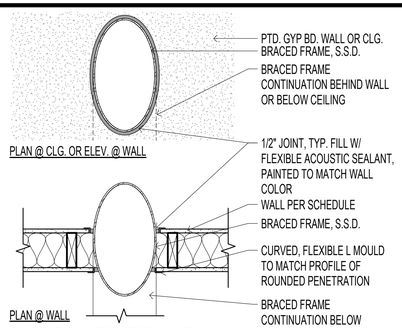
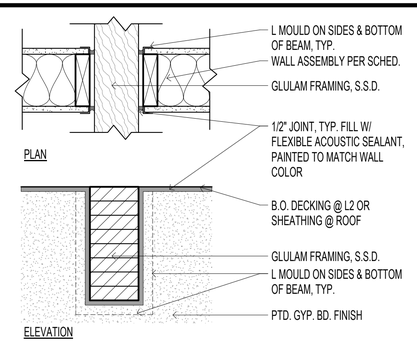


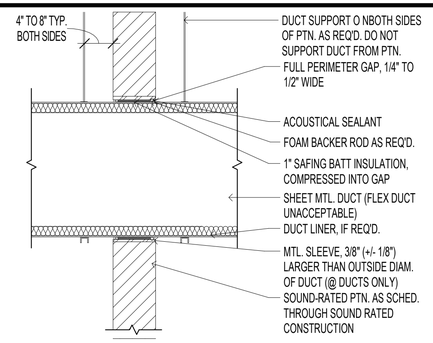
20 A9.21 TYP. HANGING RAIL
SCALE: 3" = 1'-0"



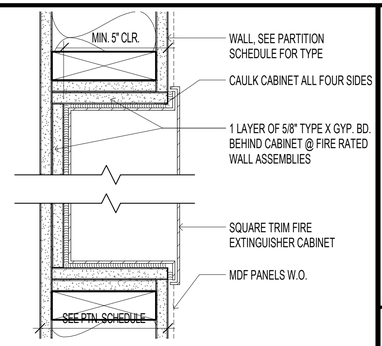
16 A9.21 BRACED FRAME WALL AND CLG. PENETRATION
SCALE: 1" = 1'-0"



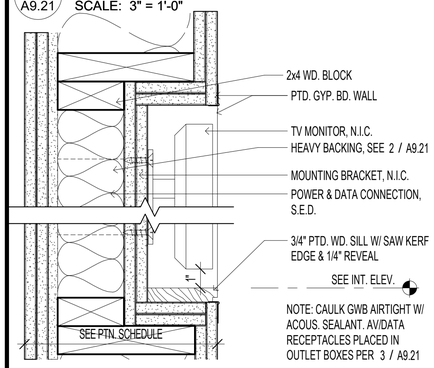
12 A9.21 TYP.INT. WALL HEAD @ GLULAM
SCALE: 1 1/2" = 1'-0"



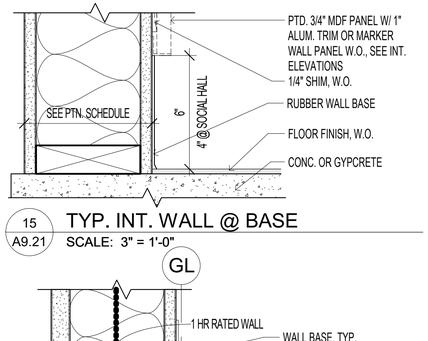
8 A9.21 TYP. DUCT PENETRATION
SCALE: 1 1/2" = 1'-0"



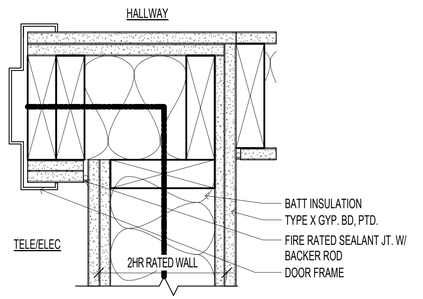
4 A9.21 SEMI RECESSED F.E.C.
SCALE: 3" = 1'-0"



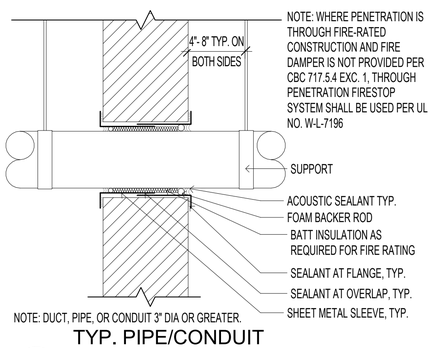
19 A9.21 RECESS IN WALL FOR TV
SCALE: 3" = 1'-0"



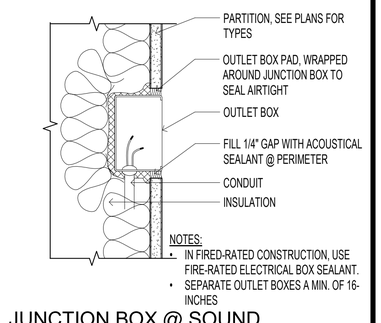
15 A9.21 TYP. INT. WALL @ BASE
SCALE: 3" = 1'-0"



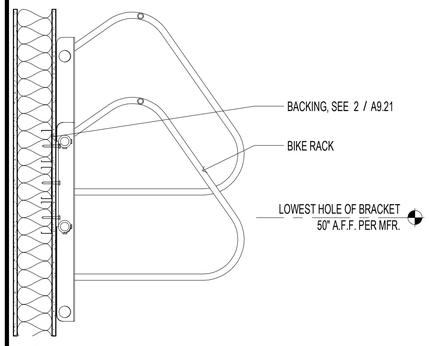
11 A9.21 NON-RATED TO 2HR RATED WALL
SCALE: 3" = 1'-0"



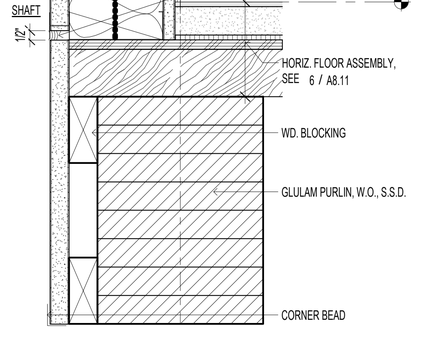
7 A9.21 TYP. PIPE/CONDUIT PENETRATION 3" OR MORE
SCALE: 3" = 1'-0"



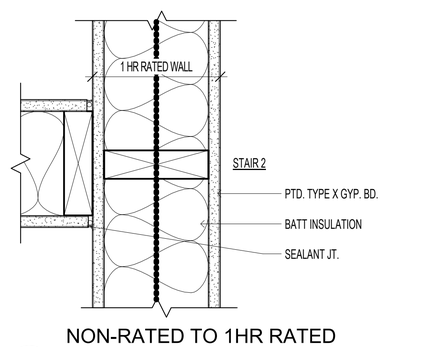
3 A9.21 JUNCTION BOX @ SOUND RATED WALL
SCALE: 3" = 1'-0"



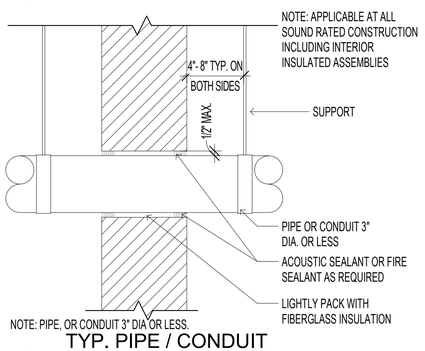
18 A9.21 BIKE RACK ATTACHMENT
SCALE: 1" = 1'-0"



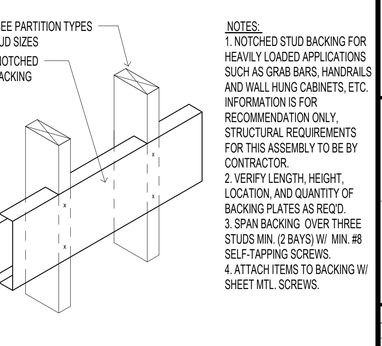
14 A9.21 SHAFT ASSEMBLY SECTION
SCALE: 3" = 1'-0"



10 A9.21 NON-RATED TO 1HR RATED WALL
SCALE: 3" = 1'-0"

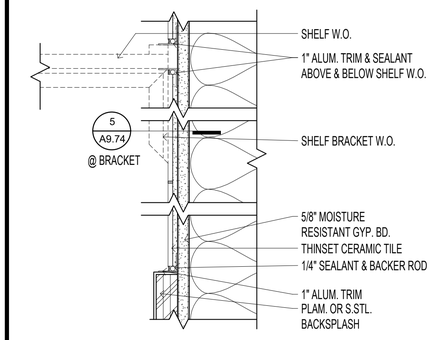


6 A9.21 TYP. PIPE / CONDUIT PENETRATION LESS THAN 3"
SCALE: 3" = 1'-0"

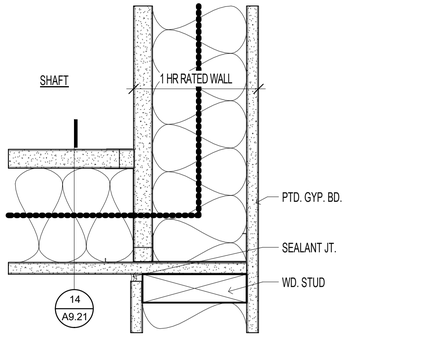


NOTES:
1. NOTCHED STUD BACKING FOR HEAVILY LOADED APPLICATIONS SUCH AS GRAB BARS, HANDRAILS AND WALL HUNG CABINETS, ETC. INFORMATION IS FOR RECOMMENDATION ONLY, STRUCTURAL REQUIREMENTS FOR THIS ASSEMBLY TO BE BY CONTRACTOR.
2. VERIFY LENGTH, HEIGHT, LOCATION, AND QUANTITY OF BACKING PLATES AS REQ'D.
3. SPAN BACKING OVER THREE STUDS MIN. (2 BAYS) W/ MIN. #8 SELF-TAPPING SCREWS.
4. ATTACH ITEMS TO BACKING W/ SHEET MTL. SCREWS.

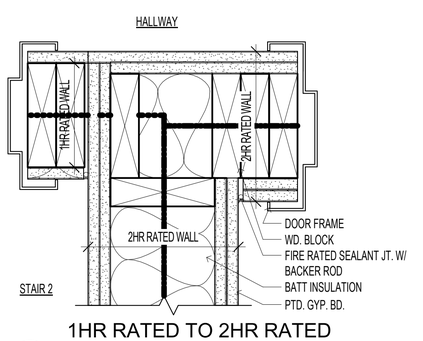
2 A9.21 BACKING PLATE - HEAVY LOAD
SCALE: 1 1/2" = 1'-0"



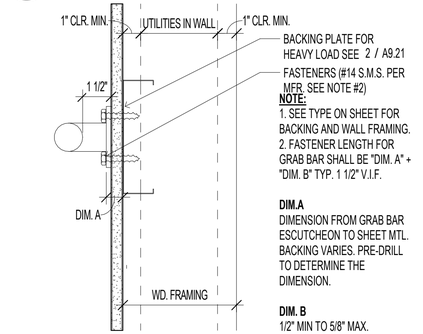
17 A9.21 WALL TILE ASSEMBLY
SCALE: 3" = 1'-0"



13 A9.21 SHAFT ASSEMBLY PLAN
SCALE: 3" = 1'-0"



9 A9.21 1HR RATED TO 2HR RATED WALL
SCALE: 3" = 1'-0"

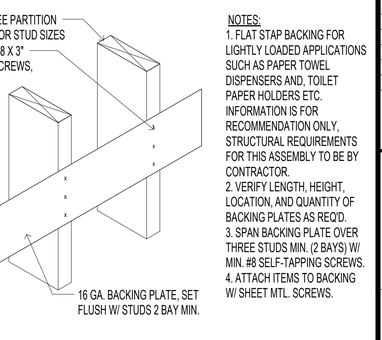


NOTE:
1. SEE TYPE ON SHEET FOR BACKING AND WALL FRAMING.
2. FASTENER LENGTH FOR GRAB BAR SHALL BE "DIM. A" + "DIM. B" TYP. 1 1/2" V.I.F.

DIM.A
DIMENSION FROM GRAB BAR ESCUTCHEON TO SHEET MTL. BACKING VARIES. PRE-DRILL TO DETERMINE THE DIMENSION.

DIM. B
1/2" MIN TO 5/8" MAX.

5 A9.21 GRAB BAR BACKING
SCALE: 3" = 1'-0"



NOTES:
1. FLAT STAP BACKING FOR LIGHTLY LOADED APPLICATIONS SUCH AS PAPER TOWEL DISPENSERS AND, TOILET PAPER HOLDERS ETC. INFORMATION IS FOR RECOMMENDATION ONLY, STRUCTURAL REQUIREMENTS FOR THIS ASSEMBLY TO BE BY CONTRACTOR.
2. VERIFY LENGTH, HEIGHT, LOCATION, AND QUANTITY OF BACKING PLATES AS REQ'D.
3. SPAN BACKING PLATE OVER THREE STUDS MIN. (2 BAYS) W/ MIN. #8 SELF-TAPPING SCREWS.
4. ATTACH ITEMS TO BACKING W/ SHEET MTL. SCREWS.

1 A9.21 BACKING PLATE - LIGHT LOAD
SCALE: 1 1/2" = 1'-0"

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Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT RYAN JANG NO. C 33368 REN 6/30/2023 STATE OF CALIFORNIA

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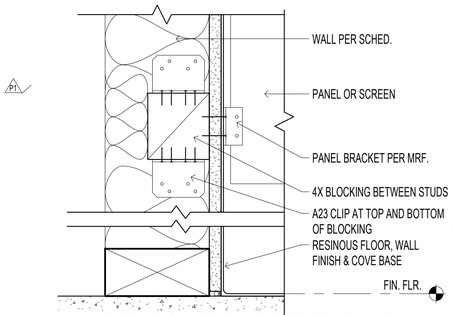
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - WALLS

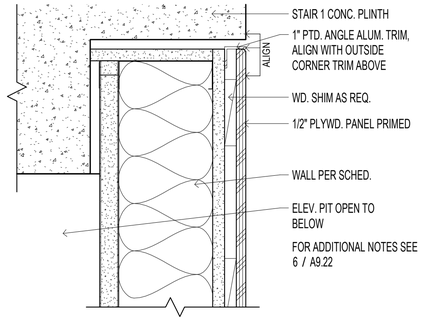
Drawing No.
A9.21

Sheet No.

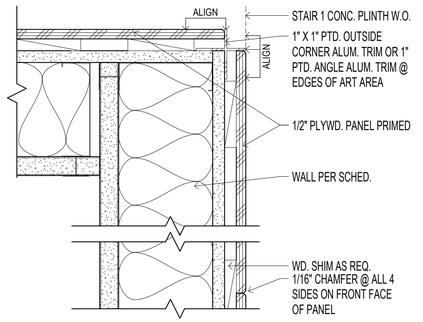
MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:13:37 PM
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



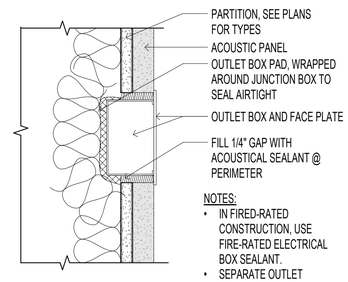
8 A9.22 TYP. TOILET PARTITION PANEL BACKING @ WALL
SCALE: 3" = 1'-0"



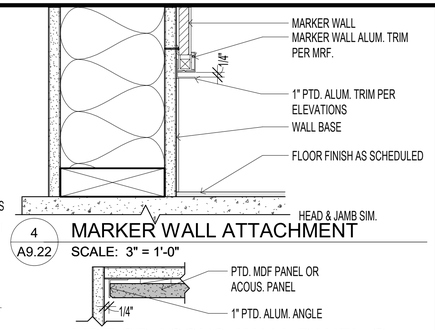
7 A9.22 SUBSTRATE FOR PUBLIC ART @ ELEV. STAIR 1 PLINTH
SCALE: 3" = 1'-0"



6 A9.22 TYP. SUBSTRATE FOR PUBLIC ART @ ELEV.
SCALE: 3" = 1'-0"

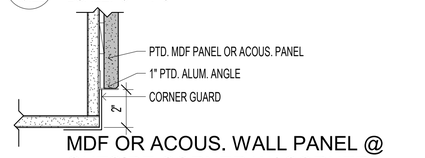


5 A9.22 OUTLET @ ACOUSTIC PANEL
SCALE: 3" = 1'-0"

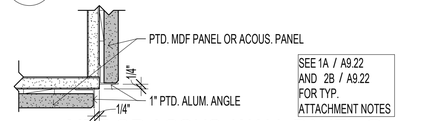


4 A9.22 MARKER WALL ATTACHMENT
SCALE: 3" = 1'-0"

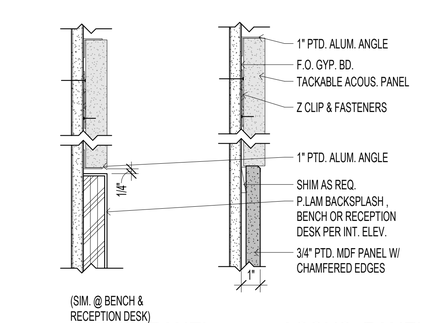
3C A9.22 MDF OR ACOUS. WALL PANEL @ INSIDE CORNER
SCALE: 3" = 1'-0"



3B A9.22 MDF OR ACOUS. WALL PANEL @ OUTSIDE CORNER W/ CORNER GUARD
SCALE: 3" = 1'-0"

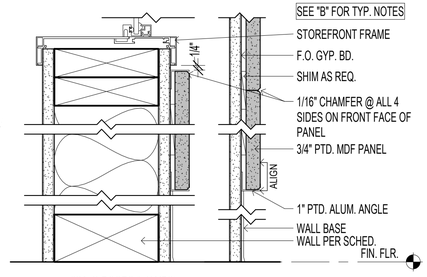


3A A9.22 MDF OR ACOUS. WALL PANEL @ OUTSIDE CORNER
SCALE: 3" = 1'-0"



(SIM. @ BENCH & RECEPTION DESK)
2B A9.22 ACOUS. PANEL @ COUNTER
SCALE: 3" = 1'-0"

2A A9.22 ACOUS. PANEL @ MDF
SCALE: 3" = 1'-0"



(SIM. @ DOORS & JAMBS)
1B A9.22 MDF WALL PANEL @ STOREFRONT
SCALE: 3" = 1'-0"

(JAMB & HEAD SIM)
1A A9.22 MDF WALL PANEL @ BASE
SCALE: 3" = 1'-0"

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Drawing No.
A9.22

Sheet No.

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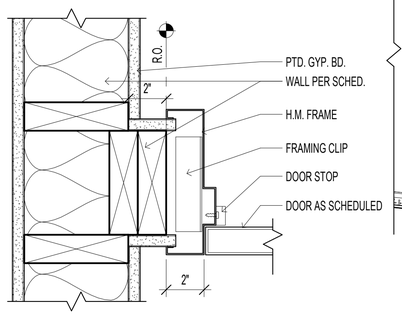
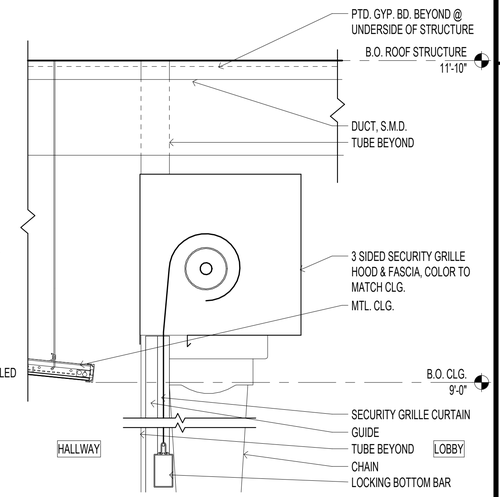
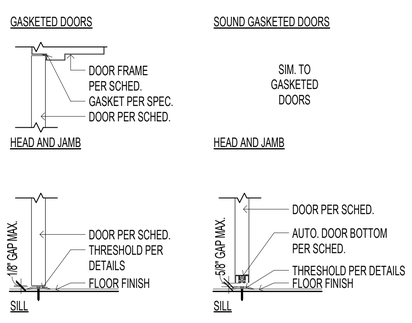
LMSA PROJECT NUMBER: 1902



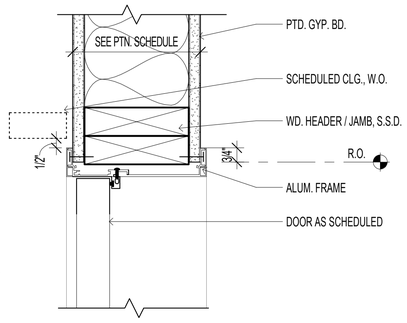
7 A9.31 INT. H.M. DOOR HEAD / JAMB
SCALE: 3" = 1'-0"



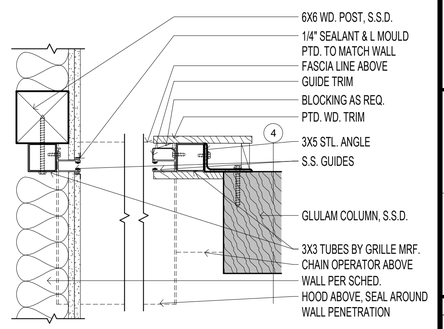
3 A9.31 SECURITY GRILLE @ CLG.
SCALE: 1 1/2" = 1'-0"



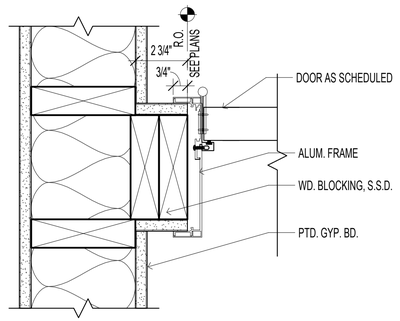
8 A9.31 ACOUSTIC DOOR DETAILS
SCALE: 1 1/2" = 1'-0"



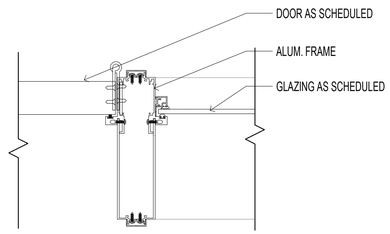
6 A9.31 INT. STOREFRONT DR. HEAD / JAMB
SCALE: 3" = 1'-0"



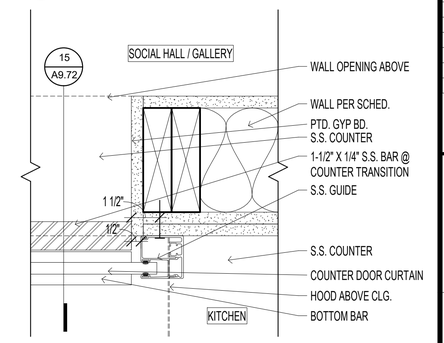
2 A9.31 SECURITY GRILLE JAMB
SCALE: 1 1/2" = 1'-0"



9 A9.31 INT. STOREFRONT DR. JAMB @ WALL
SCALE: 3" = 1'-0"



5 A9.31 INT. STOREFRONT DR. JAMB @ INT. GLAZING (HEAD SIM.)
SCALE: 3" = 1'-0"



1 A9.31 COUNTER DOOR JAMB
SCALE: 3" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT
RYAN JANG
NO. C 33368
REN 6/30/2023
STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

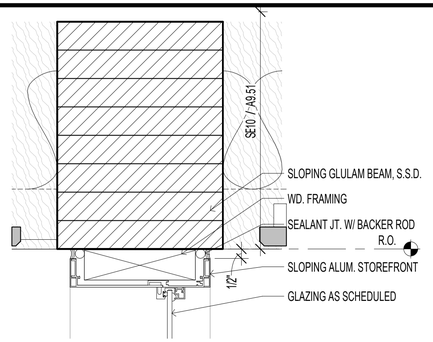
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - DOORS

Drawing No.
A9.31

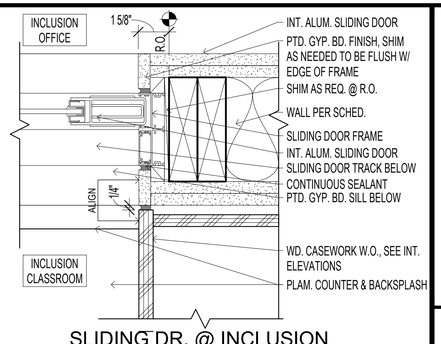
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 8:14:01 PM
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



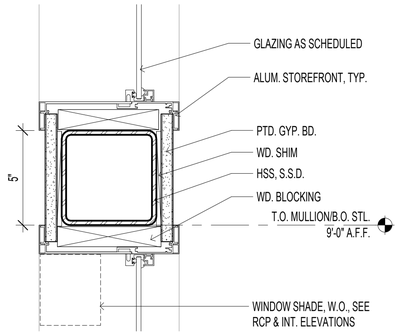
8 A9.41 INT. STOREFRONT HEAD SLOPED

SCALE: 3" = 1'-0"



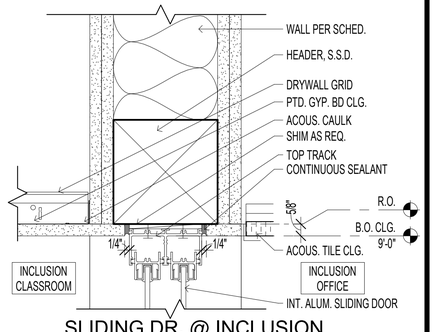
4 A9.41 SLIDING DR. @ INCLUSION OFFICE - JAMB

SCALE: 3" = 1'-0"



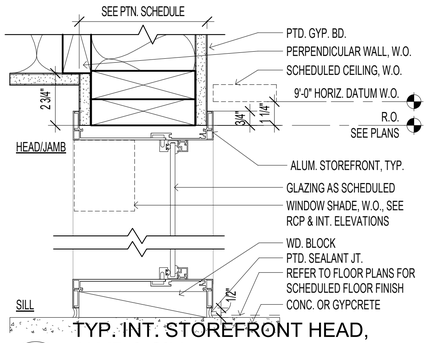
7 A9.41 INT. STOREFRONT HEAD @ TUBE STL.

SCALE: 3" = 1'-0"



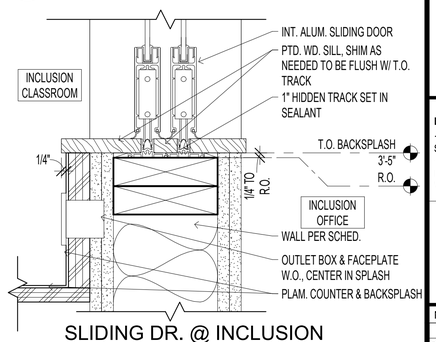
3 A9.41 SLIDING DR. @ INCLUSION OFFICE - HEAD

SCALE: 3" = 1'-0"



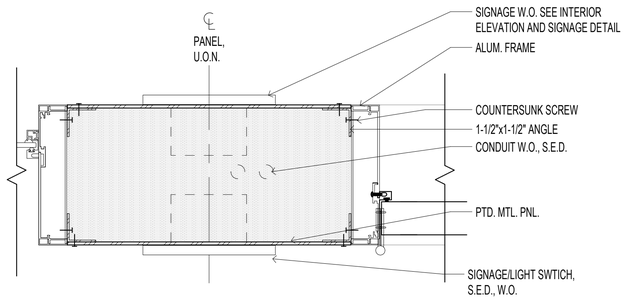
6 A9.41 TYP. INT. STOREFRONT HEAD, JAMB & SILL

SCALE: 3" = 1'-0"



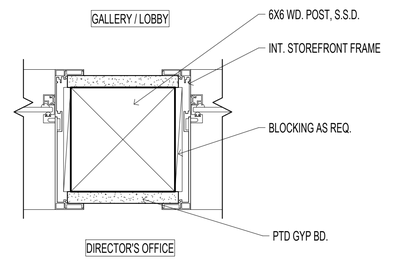
2 A9.41 SLIDING DR. @ INCLUSION OFFICE - SILL

SCALE: 3" = 1'-0"



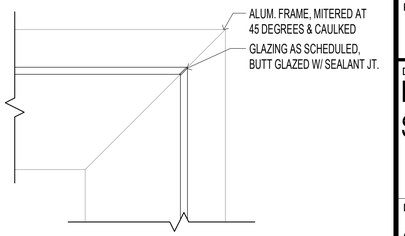
9 A9.41 INT. STOREFRONT GLAZING TO MTL. PNL.

SCALE: 3" = 1'-0"



5 A9.41 HSS @ DIRECTOR'S OFFICE PLAN

SCALE: 3" = 1'-0"



1 A9.41 INT. STOREFRONT - BUTT GLAZED

SCALE: 3" = 1'-0"

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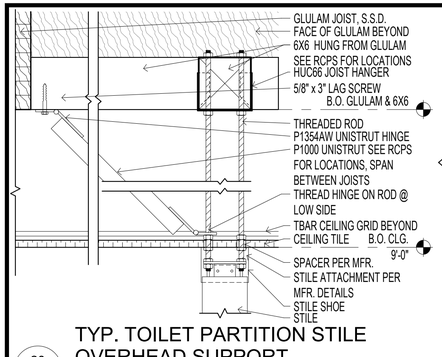
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - STOREFRONT

Drawing No.
A9.41

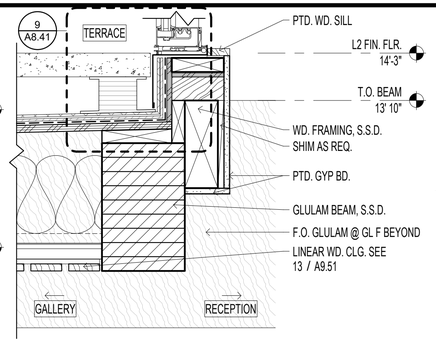
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:14:03 PM
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



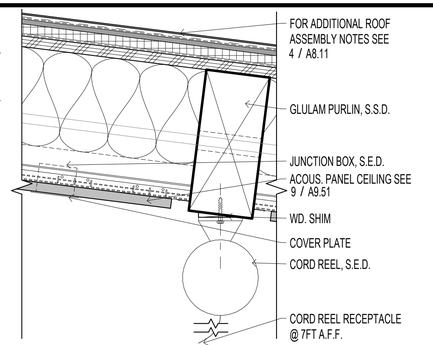
20 A9.51 TYP. TOILET PARTITION STILE OVERHEAD SUPPORT

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



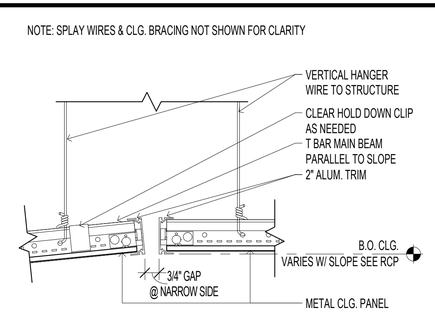
16 A9.51 WD. CLG. EDGE @ RECEPTION

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



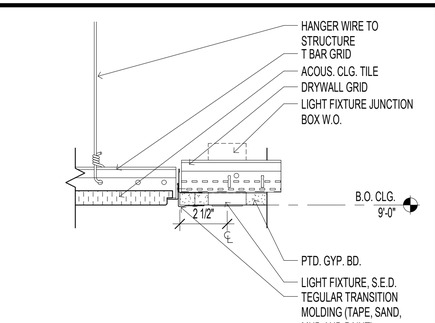
12 A9.51 SUPPORT @ CORD REEL

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



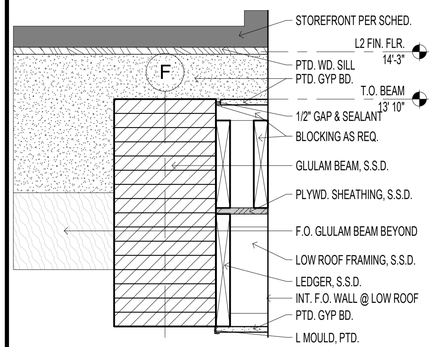
8 A9.51 SLOPED TO FLAT METAL CLG.

SCALE: 3" = 1'-0"



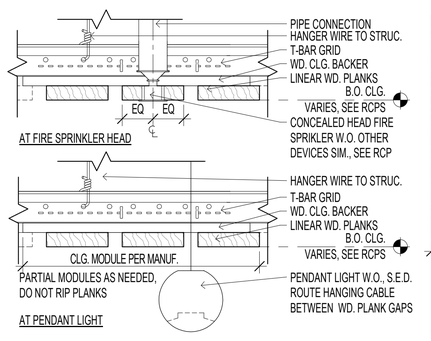
4 A9.51 GYP. BD. CLG. TO ACOUS. CLG. TILE

SCALE: 3" = 1'-0"



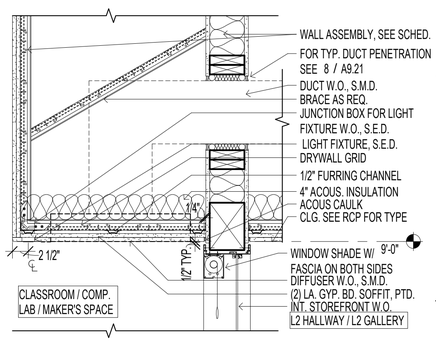
19 A9.51 WD. CLG. EDGE @ RECEPTION - ELEV.

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



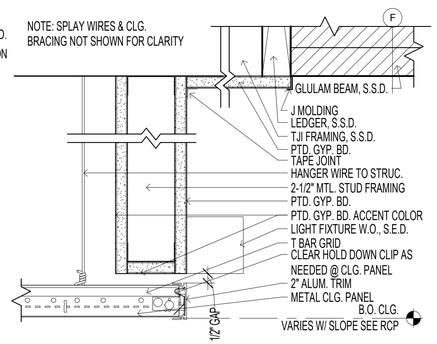
15 A9.51 TYP. LINEAR WD. CLG. ASSEMBLY

SCALE: 3" = 1'-0"



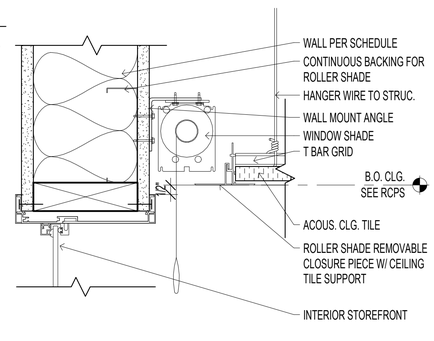
11 A9.51 TYP. ACOUS. GYP. BD. SOFFIT @ L2

SCALE: 1" = 1'-0"



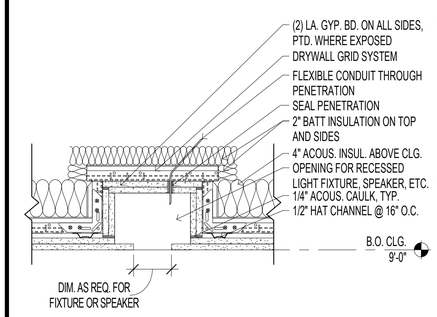
7 A9.51 METAL CLG. EDGE @ LOBBY WEST

SCALE: 3" = 1'-0"



3 A9.51 SHADES @ ACOUS. CLG. TILE

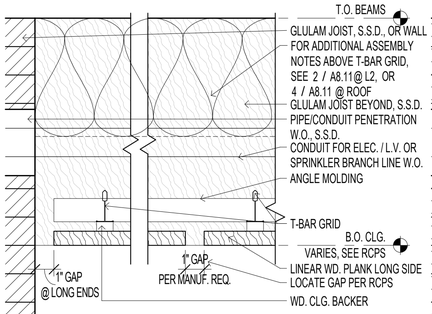
SCALE: 3" = 1'-0"



RECESSED FIXTURES IN ACOUS. GYP. CLG.

18 A9.51

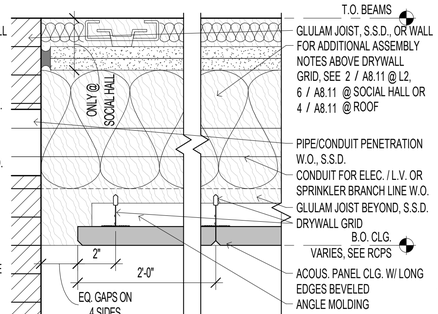
SCALE: 1 1/2" = 1'-0"



INT. & EXT LINEAR WD. CLG. @ N/S BEAMS OR WALL

14 A9.51

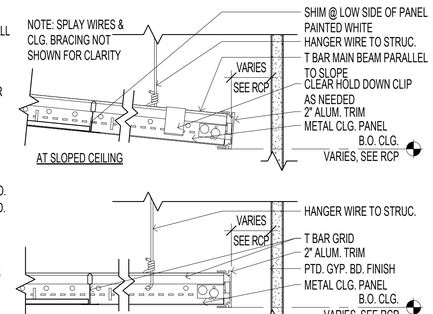
SCALE: 3" = 1'-0"



ACOUS. PANEL CLG. @ N/S BEAMS OR WALL

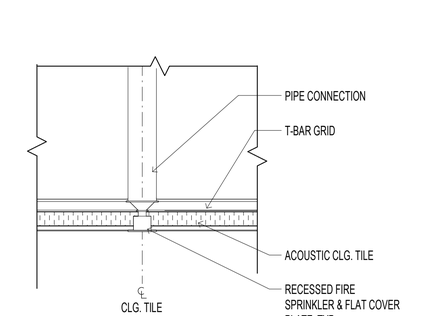
10 A9.51

SCALE: 3" = 1'-0"



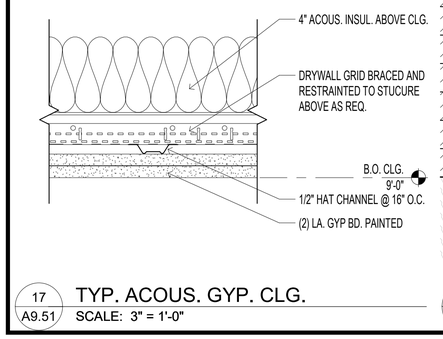
6 A9.51 METAL CLG. EDGE @ WALL

SCALE: 3" = 1'-0"



2 A9.51 SPRINKLER HD. @ ACOUS. CLG. TILE

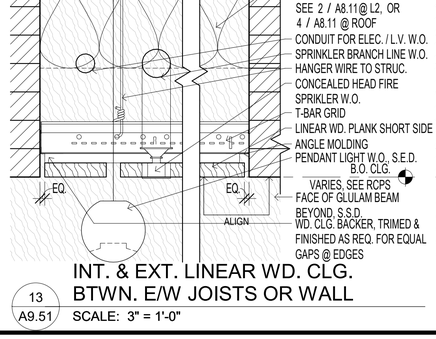
SCALE: 3" = 1'-0"



TYP. ACOUS. GYP. CLG.

17 A9.51

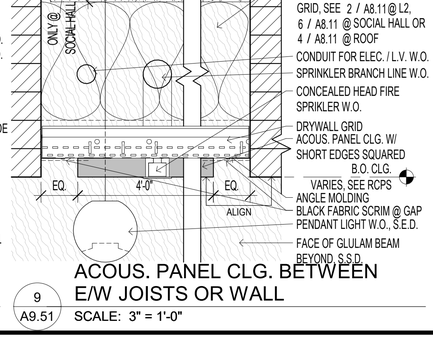
SCALE: 3" = 1'-0"



INT. & EXT. LINEAR WD. CLG. BTWN. E/W JOISTS OR WALL

13 A9.51

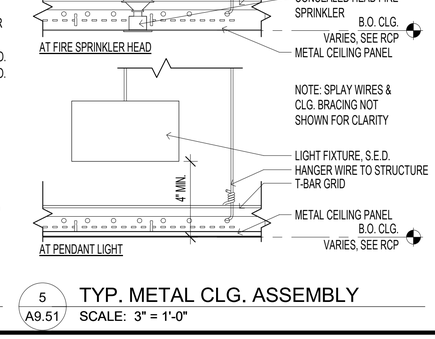
SCALE: 3" = 1'-0"



ACOUS. PANEL CLG. BETWEEN E/W JOISTS OR WALL

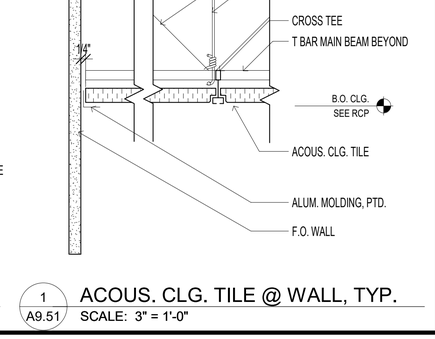
9 A9.51

SCALE: 3" = 1'-0"



5 A9.51 TYP. METAL CLG. ASSEMBLY

SCALE: 3" = 1'-0"



1 A9.51 ACOUS. CLG. TILE @ WALL, TYP.

SCALE: 3" = 1'-0"

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - CEILINGS

Drawing No.
A9.51

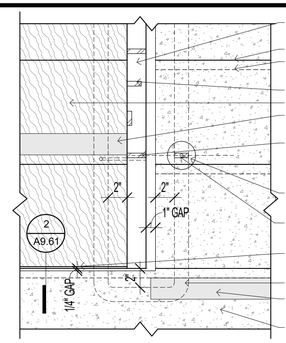
Sheet No.

MOSSWOOD COMMUNITY CENTER

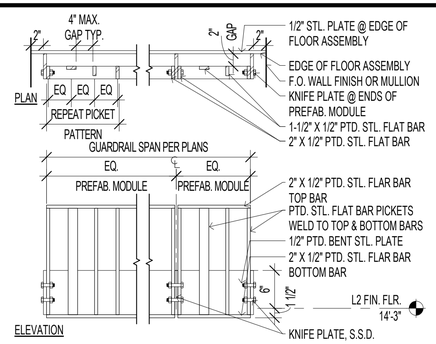
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/18/2022 6:14:07 PM

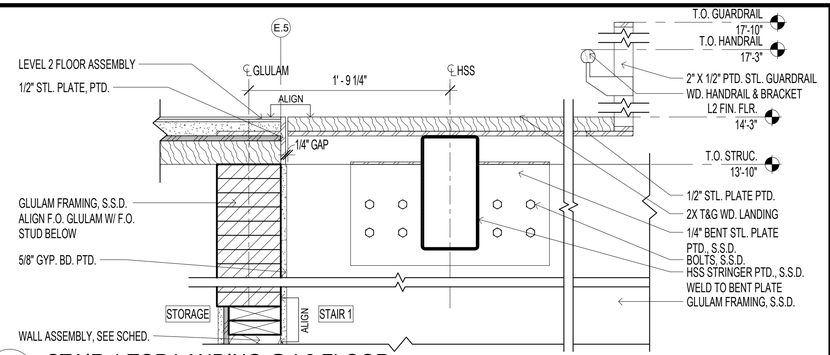
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



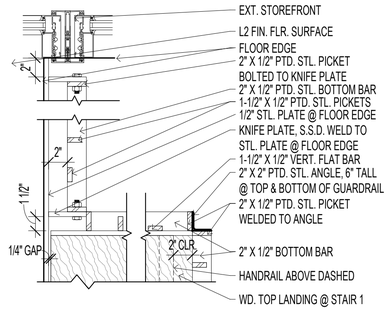
16 A9.61 **STAIR 1 HANDRAIL @ SWITCHBACK**
SCALE: 1 1/2" = 1'-0"



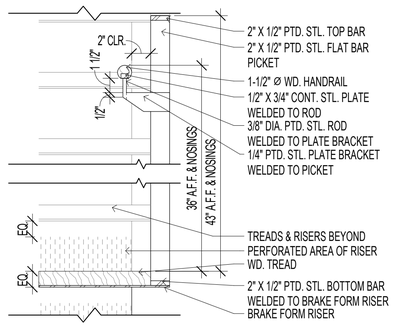
12 A9.61 **TYP. INT. GUARDRAIL**
SCALE: 1" = 1'-0"



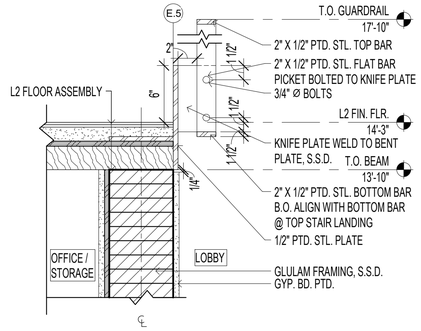
8 A9.61 **STAIR 1 TOP LANDING @ L2 FLOOR**
SCALE: 1 1/2" = 1'-0"



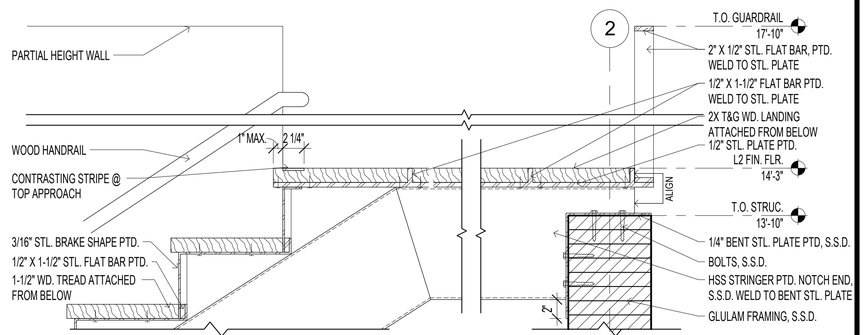
INT. GUARDRAIL BETWEEN
STAIR & STOREFRONT
19 A9.61 **SCALE: 1 1/2" = 1'-0"**



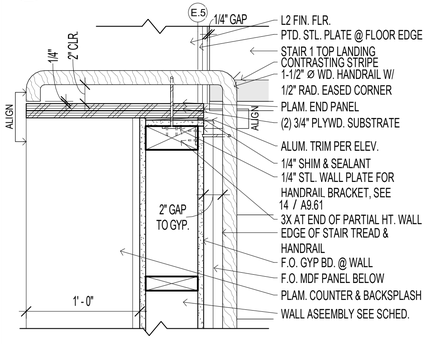
15 A9.61 **STAIR 1 HANDRAIL @ GUARDRAIL**
SCALE: 1 1/2" = 1'-0"



11 A9.61 **SECTION @ TYP. INT. GUARDRAIL**
SCALE: 1 1/2" = 1'-0"



7 A9.61 **STAIR 1 STRINGER @ TOP LANDING**
SCALE: 1 1/2" = 1'-0"



18 A9.61 **STAIR 1 HANDRAIL @ TOP LANDING**
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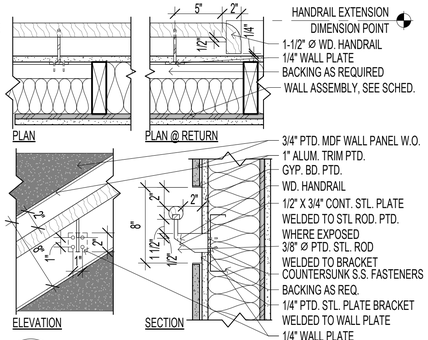
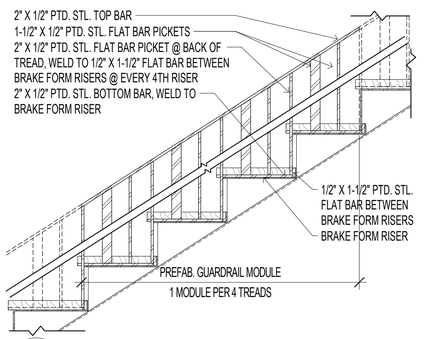
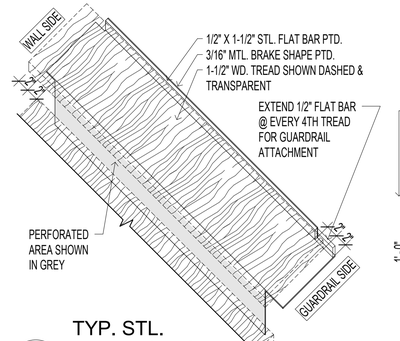


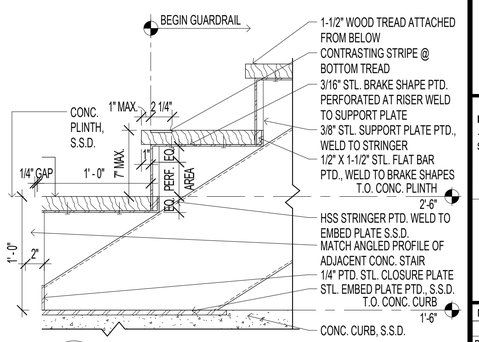
14 A9.61 **STAIR 1 HANDRAIL @ WALL**
SCALE: 1 1/2" = 1'-0"



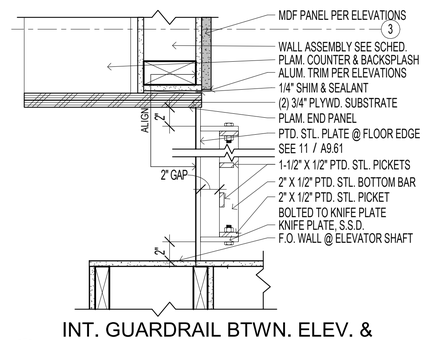
10 A9.61 **TYP. STAIR 1 GUARDRAIL ELEV.**
SCALE: 1" = 1'-0"



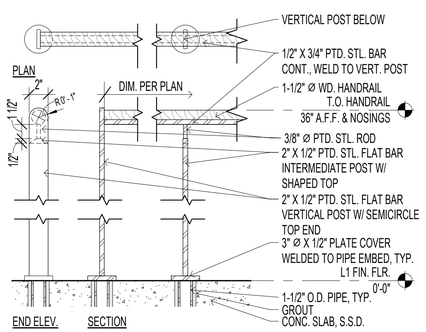
TYP. STL.
TREAD & RISER
6 A9.61 **SCALE: 1" = 1'-0"**



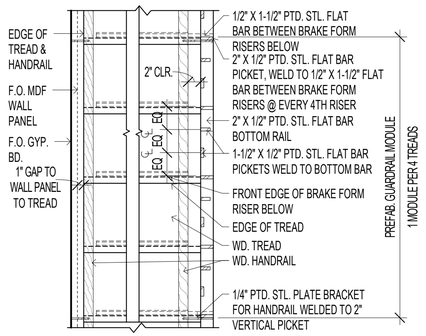
2 A9.61 **STAIR 1 STRINGER @ CONC. PLINTH**
SCALE: 1 1/2" = 1'-0"



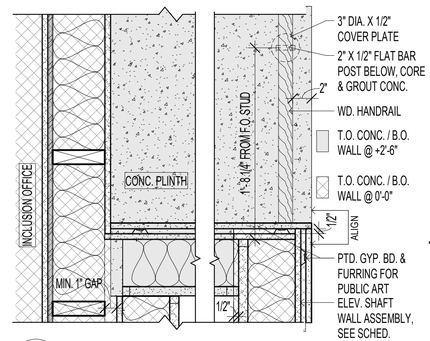
INT. GUARDRAIL BTWN. ELEV. &
COUNTER
17 A9.61 **SCALE: 1 1/2" = 1'-0"**



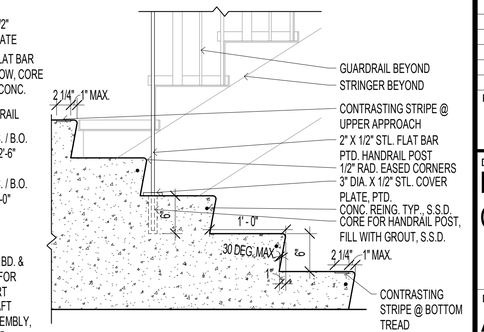
13 A9.61 **STAIR 1 HANDRAIL @ POSTS**
SCALE: 1 1/2" = 1'-0"



9 A9.61 **TYP. STAIR 1 GUARDRAIL PLAN**
SCALE: 1" = 1'-0"



5 A9.61 **CONC. PLINTH AT ELEV. WALL**
SCALE: 1 1/2" = 1'-0"



1 A9.61 **CONC. STAIR**
SCALE: 1" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT
RYAN JANG
NO. C 33368
REN 6/30/2023
STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title
INT. DTLS. - VERTICAL CIRCULATION

Drawing No.
A9.61

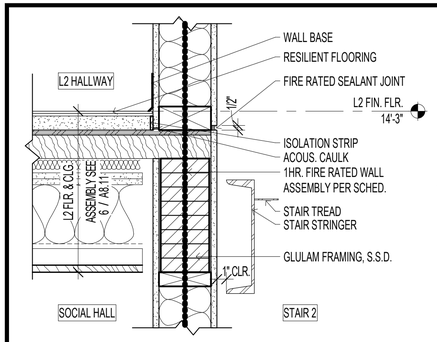
Sheet No.

MOSSWOOD COMMUNITY CENTER

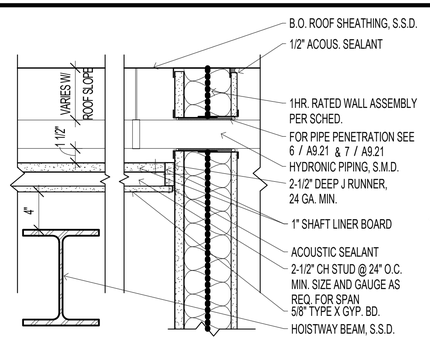
LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/18/2022 8:14:10 PM

DRAWING NAME: I:\M 360 \ Mosswood\1902_Mosswood_Arch_R21.rvt



20 A9.62 STAIR 2 WALL & FLR @ GLULAM
SCALE: 1 1/2" = 1'-0"



16 A9.62 HOISTWAY BEAM & LID SECTION 2
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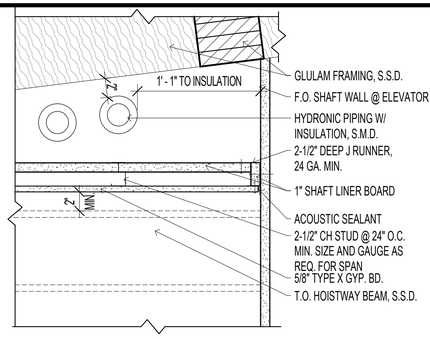
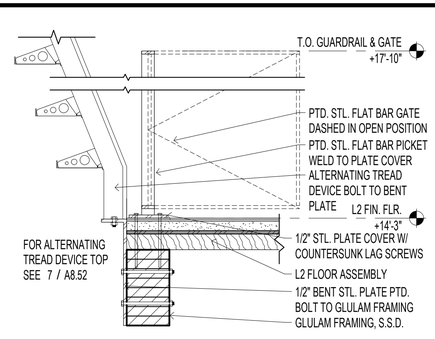


12 A9.62 HOISTWAY BEAM & LID SECTION 1
SCALE: 1 1/2" = 1'-0"



8 A9.62 ALT. TREAD DEVICE BASE
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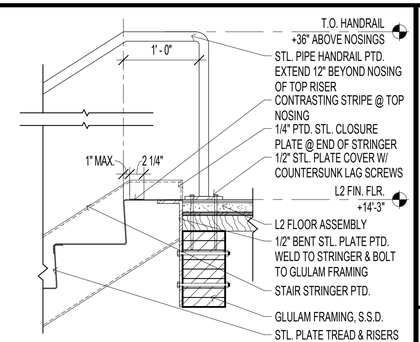

4 A9.62 STAIR 2 TOP LANDING
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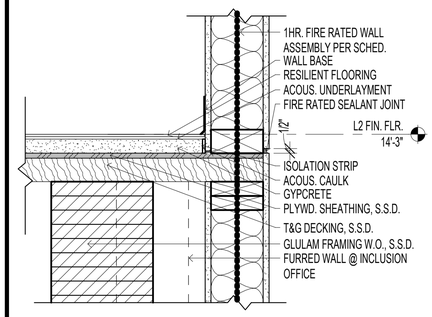

19 A9.62 FLOOR EDGE @ STAIR/ELEV. SHAFT
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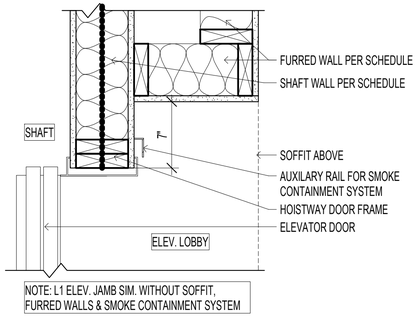
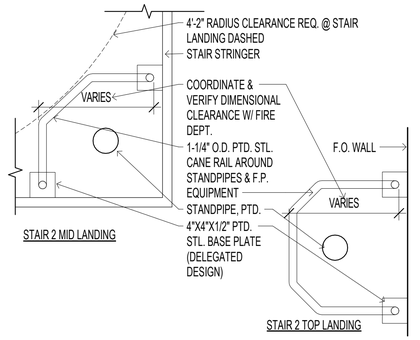
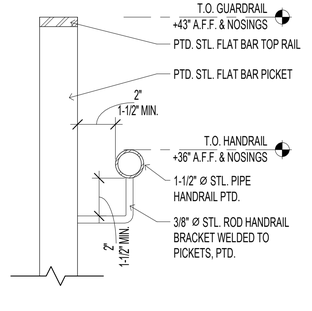


15 A9.62 ELEV. JAMB L2 (L1 SIM., SEE NOTE)
SCALE: 1 1/2" = 1'-0"



11 A9.62 STANDPIPE CANE RAIL PLAN
SCALE: 1" = 1'-0"



7 A9.62 STAIR 2 HANDRAIL @ GUARDRAIL
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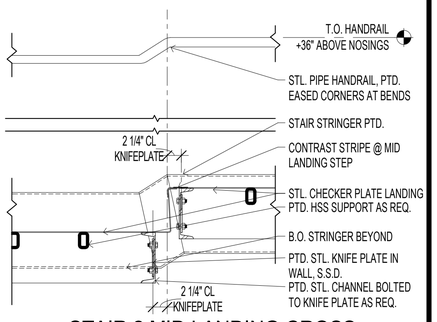

3 A9.62 STAIR 2 MID LANDING CROSS SECTION
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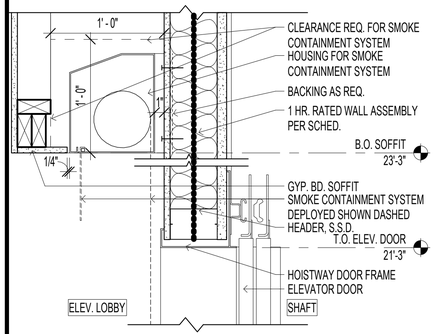
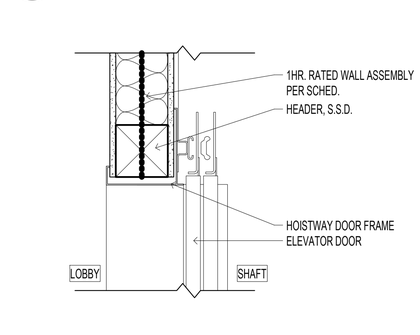
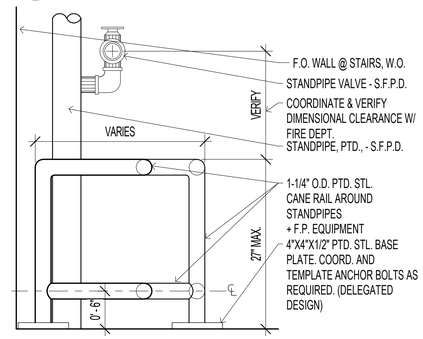


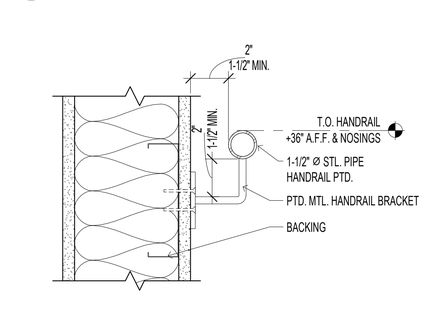
18 A9.62 ELEV. DOOR HEAD L2
SCALE: 1 1/2" = 1'-0"



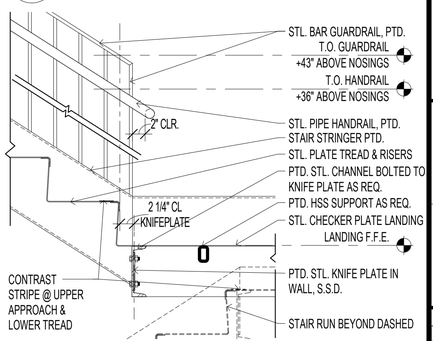
14 A9.62 ELEV. DOOR HEAD L1
SCALE: 1 1/2" = 1'-0"



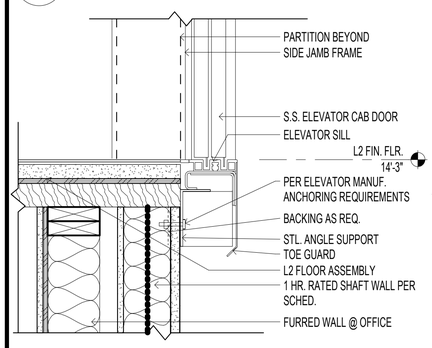
10 A9.62 STANDPIPE CANE RAIL ELEV.
SCALE: 1" = 1'-0"



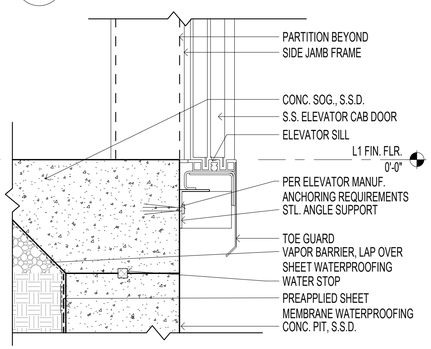
6 A9.62 STAIR 2 HANDRAIL @ WALL
SCALE: 3" = 1'-0"



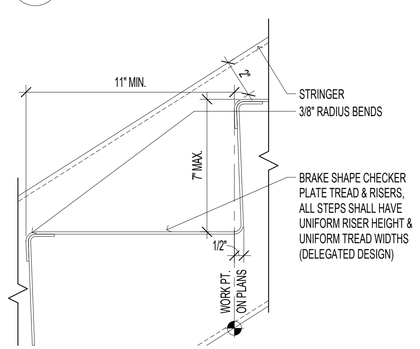
2 A9.62 STAIR 2 MID LANDING
SCALE: 1" = 1'-0"



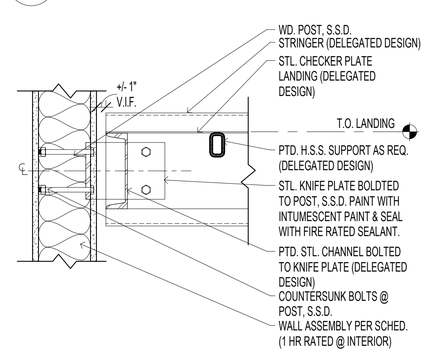
17 A9.62 ELEV. DOOR SILL L2
SCALE: 1 1/2" = 1'-0"



13 A9.62 ELEV. DOOR SILL L1
SCALE: 1 1/2" = 1'-0"



9 A9.62 TYP. STAIR 2 TREAD & RISER
SCALE: 3" = 1'-0"



5 A9.62 STAIR 2 TYP. CONNECTION TO WALL
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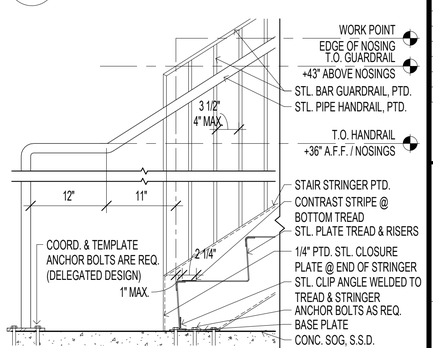

1 A9.62 STAIR 2 BOTTOM LANDING
SCALE: 1" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT RYAN JANG NO. C 33368 REN 6/30/2023 STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - VERTICAL CIRCULATION

Drawing No.
A9.62

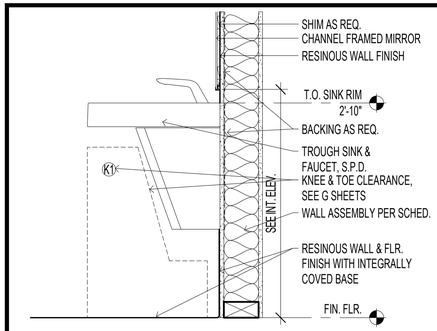
Sheet No.

MOSSWOOD COMMUNITY CENTER

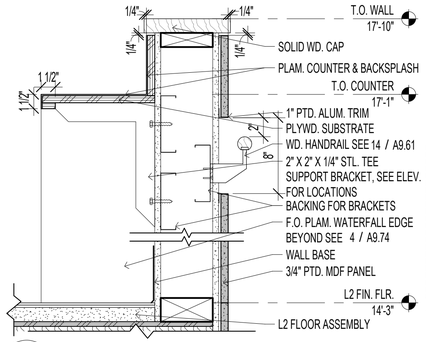
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/18/2022 6:14:13 PM

DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt



20 A9.72 MIRROR AND TROUGH SINK
SCALE: 1" = 1'-0"



19 A9.72 L2 GALLERY COUNTER
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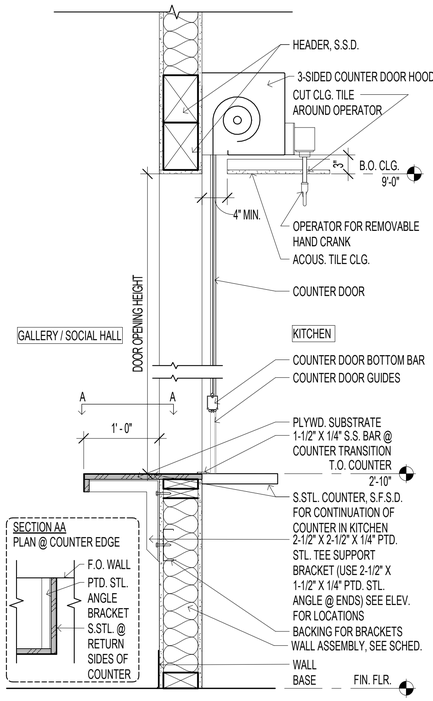
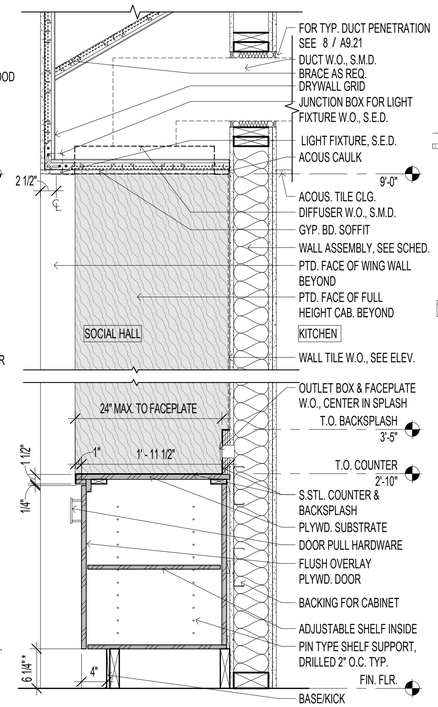
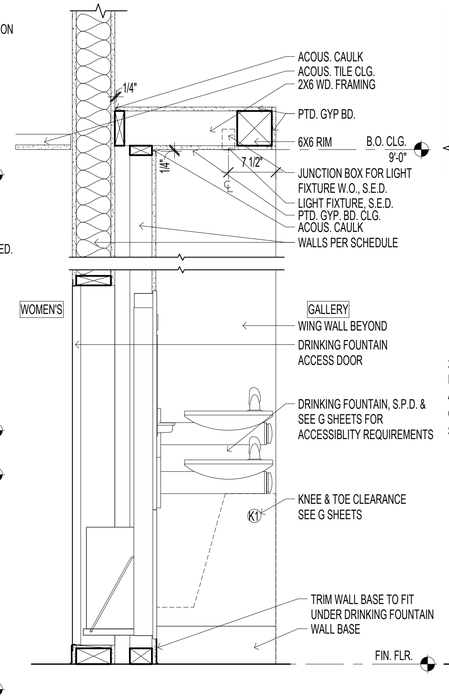


15 A9.72 COUNTER DOOR HEAD & SILL
SCALE: 1" = 1'-0"



11 A9.72 TYP. BASE CABINET
SCALE: 1" = 1'-0"



7 A9.72 DRINKING FOUNTAIN ALCOVE
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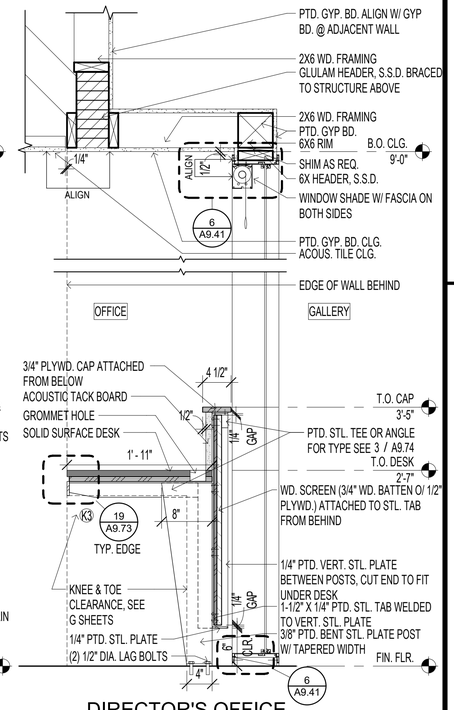
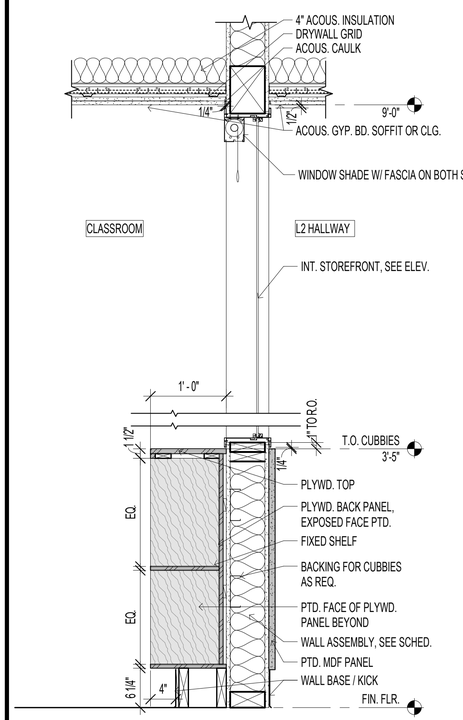


3 A9.72 DIRECTOR'S OFFICE STOREFRONT AND DESK
SCALE: 1" = 1'-0"



17 A9.72 SECTION @ CUBBIES
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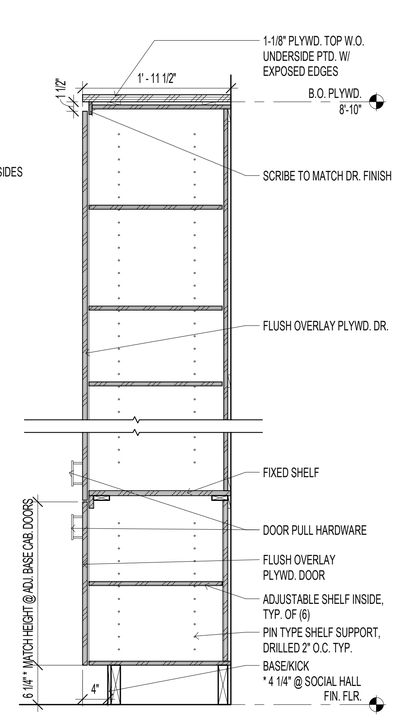

13 A9.72 TYP. FULL HEIGHT CABINET
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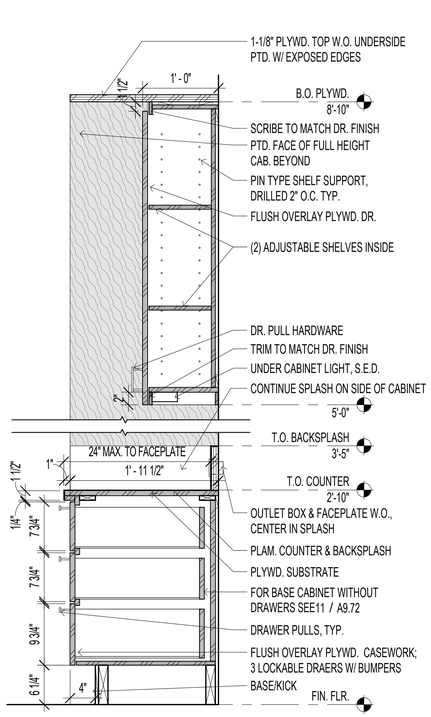
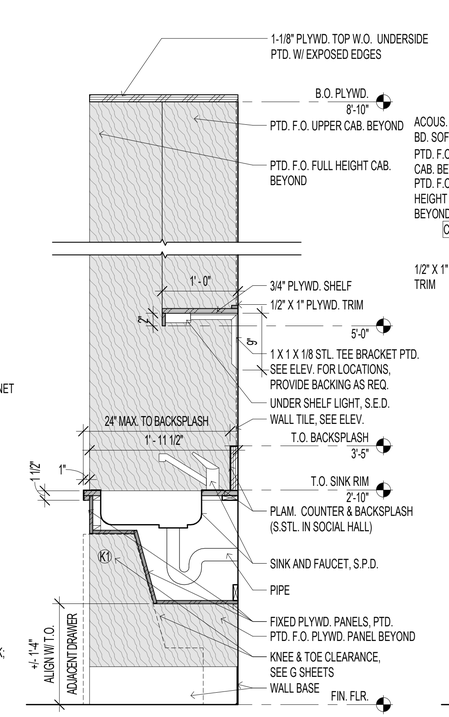
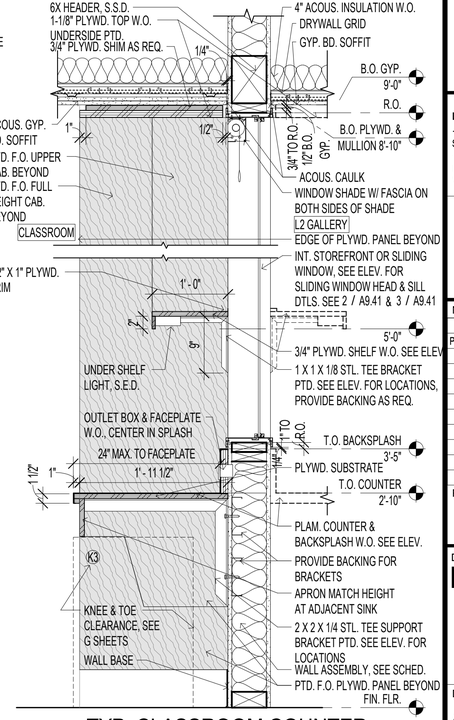


9 A9.72 TYP. BASE & UPPER CABINET
SCALE: 1" = 1'-0"



5 A9.72 TYP. CLASSROOM SINK
SCALE: 1" = 1'-0"



1 A9.72 TYP. CLASSROOM COUNTER WORK SURFACE
SCALE: 1" = 1'-0"

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	07/15/22	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - CASEWORK

Drawing No.
A9.72
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/18/2022 6:14:19 PM
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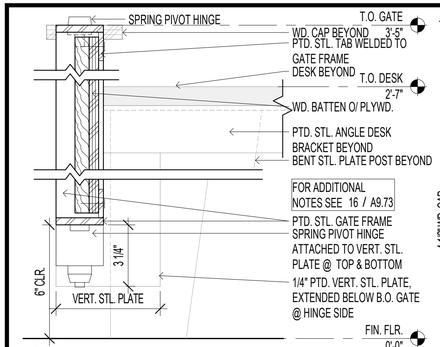
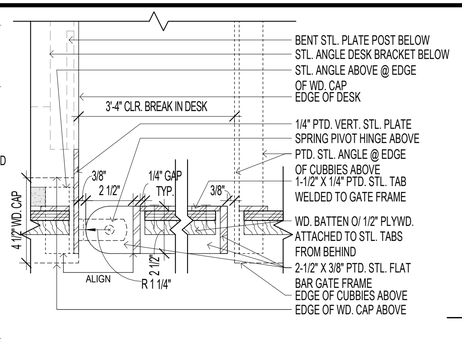
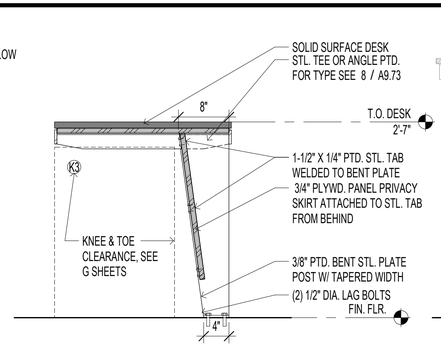


20 A9.73 **RECEPTION DESK GATE SECTION**
SCALE: 3" = 1'-0"



16 A9.73 **RECEPTION DESK GATE JAMB**
SCALE: 3" = 1'-0"



12 A9.73 **RECEPTION DESK**
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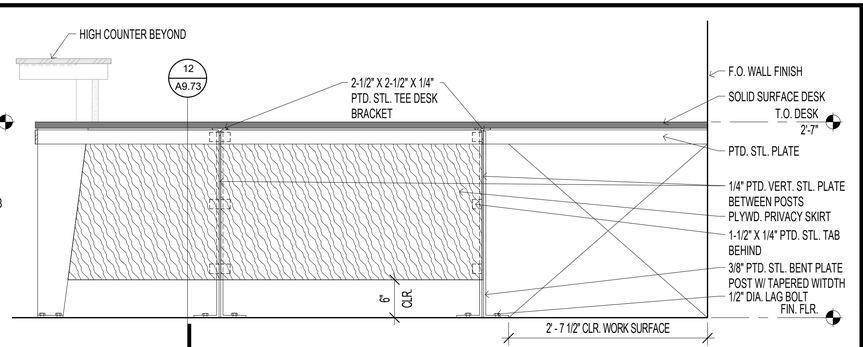
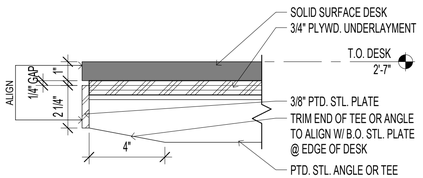
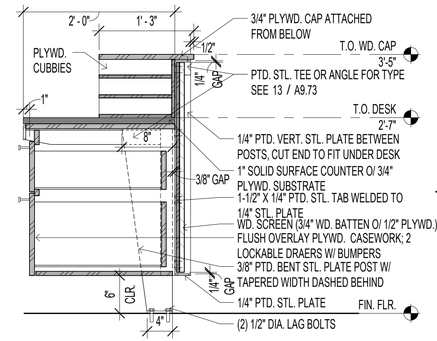


8 A9.73 **RECEPTION DESK ELEV. 2**
SCALE: 1" = 1'-0"



19 A9.73 **TYP. DESK EDGE**
SCALE: 3" = 1'-0"



15 A9.73 **RECEPTION DESK DRAWERS**
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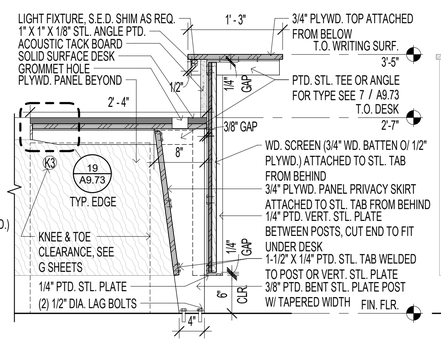
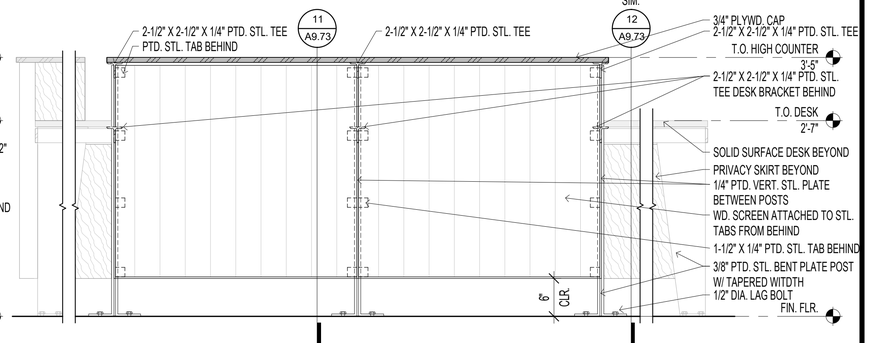
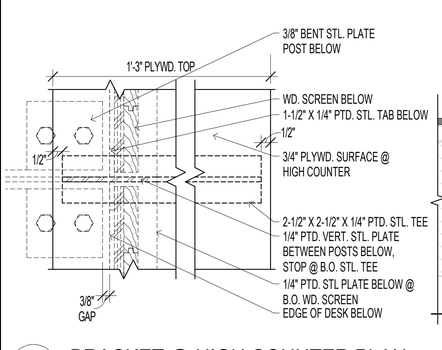


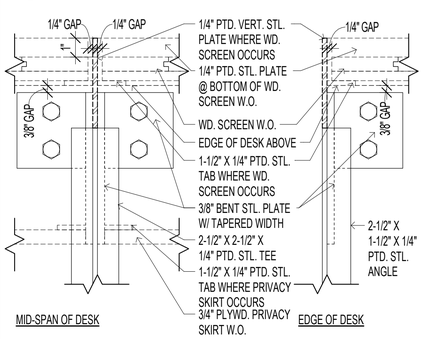
11 A9.73 **RECEPTION DESK HIGH COUNTER**
SCALE: 1" = 1'-0"



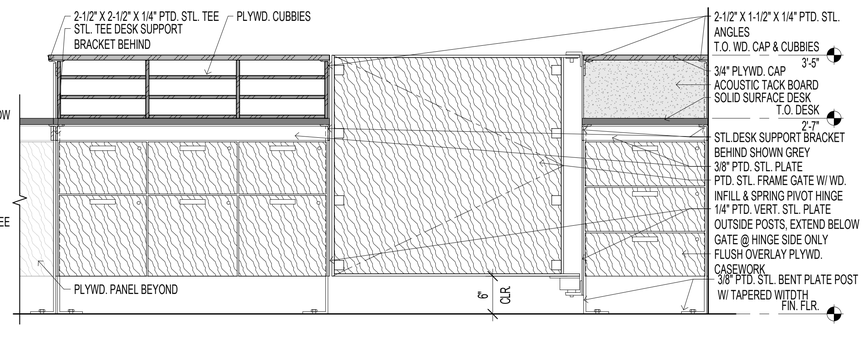
7 A9.73 **RECEPTION DESK ELEV. 1**
SCALE: 1" = 1'-0"



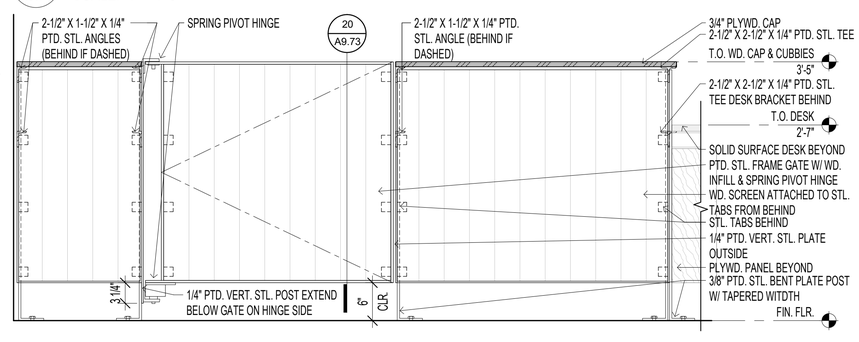
18 A9.73 **BRACKET @ HIGH COUNTER PLAN**
SCALE: 3" = 1'-0"



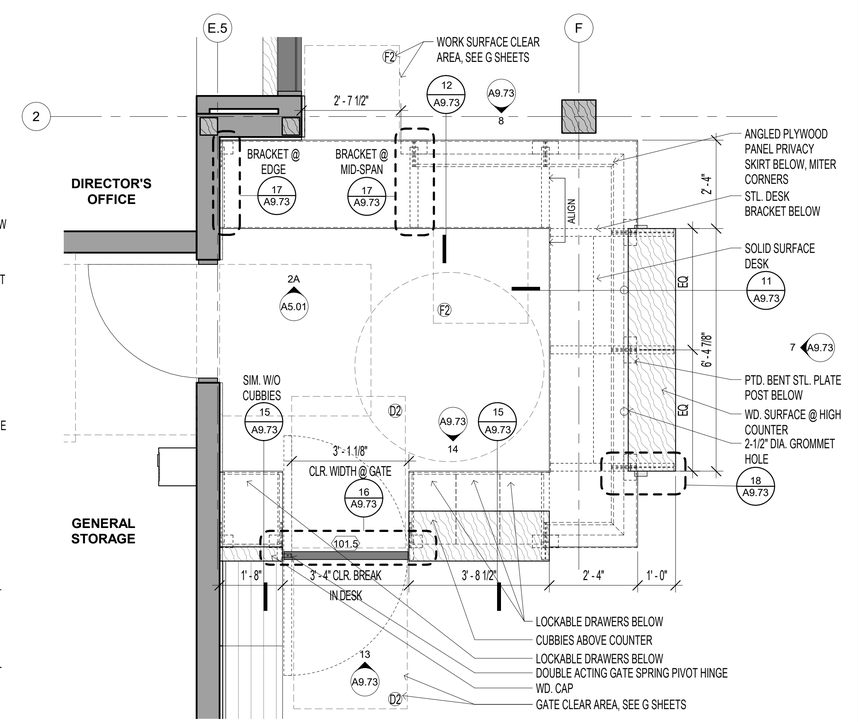
17 A9.73 **RECEPTION DESK BRACKET PLAN**
SCALE: 3" = 1'-0"



14 A9.73 **RECEPTION DESK ELEV. 4**
SCALE: 1" = 1'-0"



13 A9.73 **RECEPTION DESK ELEV. 3**
SCALE: 1" = 1'-0"



5 A9.73 **ENLARGED PLAN - RECEPTION DESK**
SCALE: 1/2" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

LICENSED ARCHITECT RYAN JANG NO. C 33368 REN 6/30/2023 STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
P1	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID

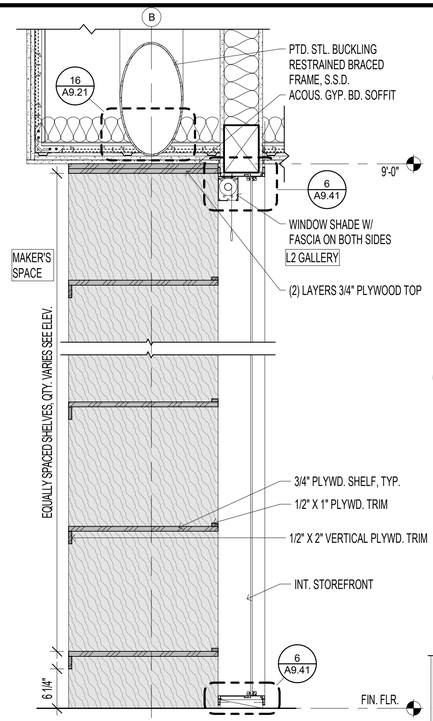
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
INT. DTLS. - CASEWORK

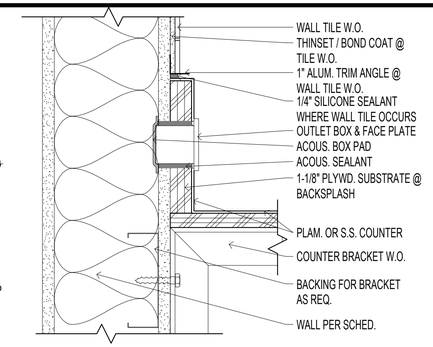
Drawing No.
A9.73

Sheet No.

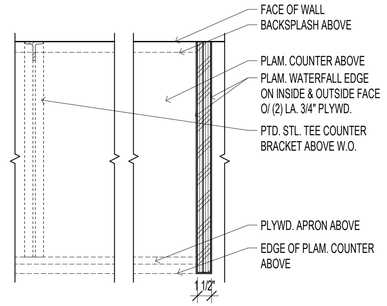
DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt
PLOT DATE: 7/15/2022 6:14:19 PM
LMSA PROJECT NUMBER: 1902



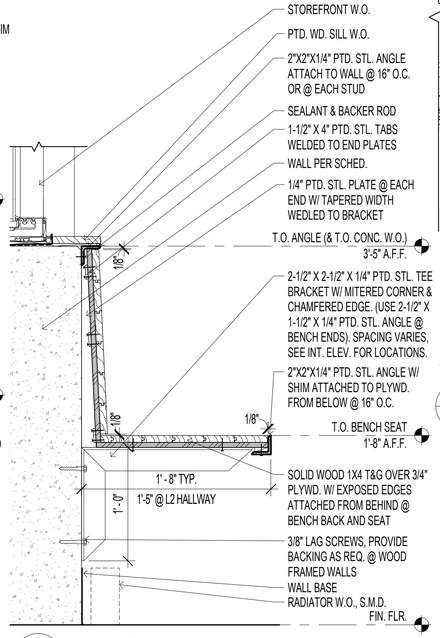
11 A9.74 MAKER'S SPACE SHELVING - SECTION @ STOREFRONT
SCALE: 1" = 1'-0"



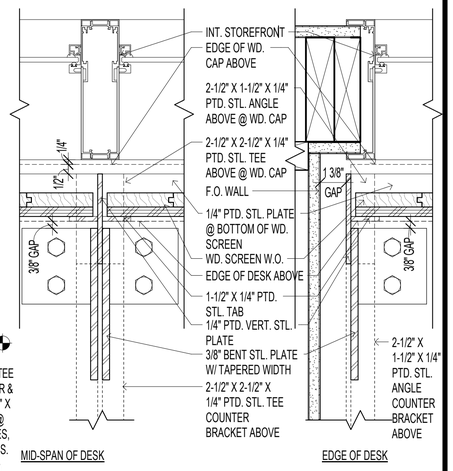
2 A9.74 TYP. OUTLET IN BACKSPLASH
SCALE: 3" = 1'-0"



4 A9.74 WATERFALL COUNTER EDGE - PLAN
SCALE: 1 1/2" = 1'-0"



6 A9.74 SECTION @ WOOD BENCH
SCALE: 1 1/2" = 1'-0"



3 A9.74 DIRECTOR'S DESK BRACKET PLAN
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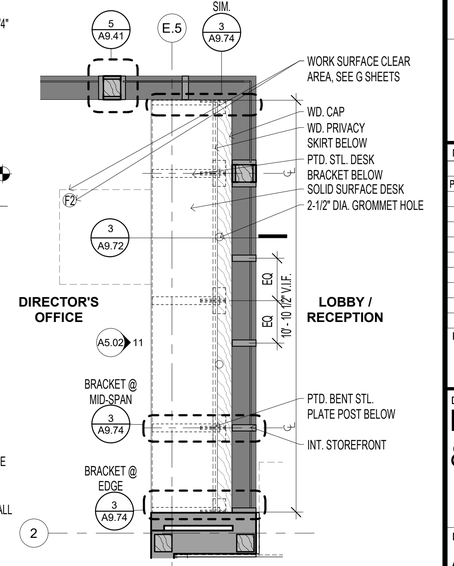
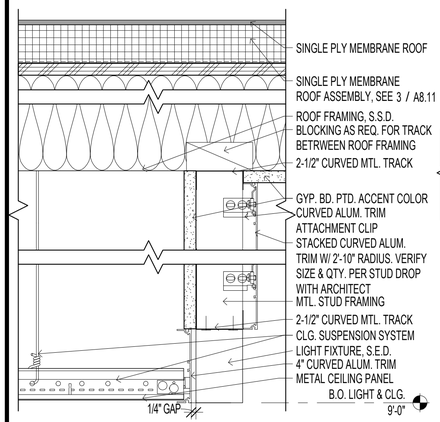
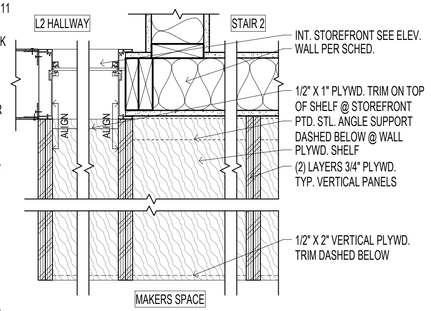


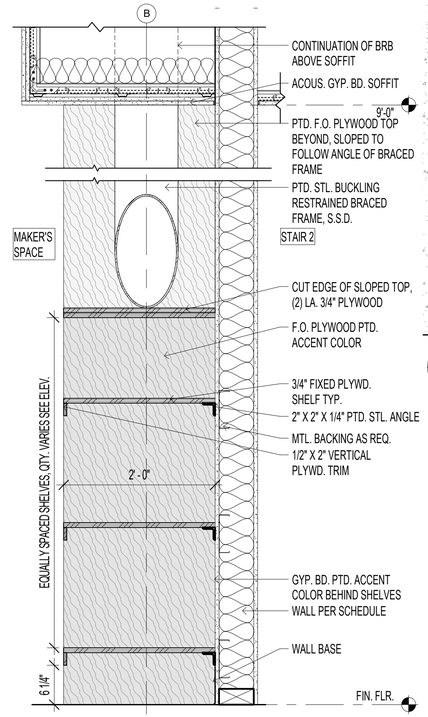
1 A9.74 ENLARGED PLAN - DIRECTOR'S DESK
SCALE: 1/2" = 1'-0"



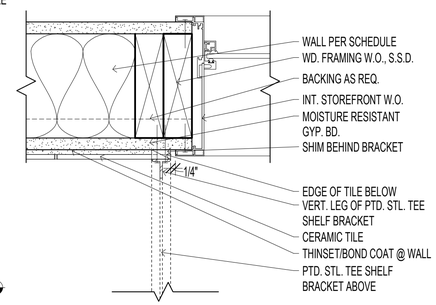
17 A9.74 SECTION @ LOBBY CLG. OPENING
SCALE: 3" = 1'-0"



13 A9.74 MAKER'S SPACE SHELVING - PLAN
SCALE: 1 1/2" = 1'-0"



9 A9.74 MAKER'S SPACE SHELVING - SECTION @ STAIR 2
SCALE: 1" = 1'-0"



5 A9.74 SHELF BRACKET @ TILE
SCALE: 3" = 1'-0"

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LMSA PROJECT NUMBER: 1902
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DRAWING NAME: BIM 360://Mosswood/1902_Mosswood_Arch_R21.rvt

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS.
2. THESE NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.
3. ALL WORK IS TO BE ASSUMED AS NEW UNLESS SPECIFICALLY STATED OTHERWISE.
4. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS. ALL DETAILS REFERENCED, AND DETAILS NOT REFERENCED ON PLANS, SHALL BE CONSIDERED TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS OF THE CONSTRUCTION.
5. UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON "TYPICAL DETAIL" SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER "TYPICAL DETAILS". SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN "GENERAL NOTES".
6. THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES. EXACT CONFIGURATION OF INTERIOR PARTITION WALLS IS SHOWN ON ARCHITECTURAL DRAWINGS AND IS NOT NECESSARILY ALL SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE ANCHORAGE, INSERTS, ANCHOR BOLTS, ETC. FOR STRUCTURAL CONNECTIONS OF TOP, SIDES AND BOTTOM OF ALL PARTITION WALLS AS LOCATED ON THE ARCHITECTURAL DRAWINGS.
7. REFER TO THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR THE FOLLOWING: FLOOR FINISHES; DEPRESSIONS AND CURBS ON FLOORS; OPENINGS REQUIRED FOR WINDOWS, DOORS, DUCTS, VENTS, PLUMBING, ETC.; FLASHING, INSERTS, ANCHORAGES, HANGERS ETC., EMBEDDED IN OR ATTACHED TO THE STRUCTURE; ROADWAY, WALKS, PAVING, STAIRS, RAMPS, TERRACES, EXTERIOR GRADES, ELEVATIONS OF ROOF SURFACE AND LOCATIONS OF DRAINS AND PARTITION WALLS.
8. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, CIVIL, AND ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
9. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
10. BEAMS, JOISTS AND ANY OTHER STRUCTURAL ELEMENTS SHALL NOT BE CUT OR PENETRATED, EXCEPT AS SHOWN IN STRUCTURAL DETAILS OR AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO POURING CONCRETE; ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
12. FEATURES OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROGRAMS AND PROCEDURES DURING CONSTRUCTION.
14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY SHORE AND BRACE EXISTING BUILDING AS REQUIRED DURING CONSTRUCTION. ALL SHORING SHALL CONFORM TO FEDERAL AND LOCAL JURISDICTION OSHA REQUIREMENTS. SHORING DESIGN SHALL BE DESIGNED AND STAMPED BY AN ENGINEER RETAINED BY CONTRACTOR AND REGISTERED IN THE LOCAL JURISDICTION.
15. THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PRECAUTIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GENERAL NOTES OR DRAWINGS.
16. SEE ARCHITECTURAL DRAWINGS FOR DETAILS ON REQUIRED VENTILATION OF ROOF JOISTS, FLOOR JOISTS, AND ATTIC SPACES.
17. CONTRACTOR SHALL FIELD VERIFY EXISTING FRAMING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY VARIATION FROM CONDITIONS ASSUMED ON DRAWINGS. CONTRACTOR SHALL VERIFY THAT EXISTING FRAMING IS RE-SUPPORTED AND ALL LOADS ARE TRANSFERRED TO NEW OR EXISTING FOOTINGS. CONTRACTOR SHALL CONSULT WITH THE STRUCTURAL ENGINEER AS REQUIRED.
18. GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY.
19. MECHANICAL UNIT LOCATIONS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC ONLY. GENERAL CONTRACTOR TO COORDINATE STRUCTURAL TRADES WITH MECHANICAL CONTRACTOR TO DETERMINE EXACT LOCATION OF UNITS AND SUPPORTING STRUCTURE.
20. DO NOT SCALE DRAWINGS.

DESIGN CRITERIA

1. VERTICAL LOADS:
   - A. DEAD LOADS:
     - i. ROOF DEAD LOAD: 25 PSF
     - ii. FLOOR DEAD LOAD: 30 PSF
   - B. LIVE LOADS:
     - i. ROOF LIVE LOAD: 20 PSF
     - ii. MECHANICAL AREA ON ROOF: 50 PSF (FOR AREA AROUND EQUIPMENT)
     - iii. TYPICAL FLOORS: 50 PSF
     - iv. ASSEMBLY AREAS: 100 PSF
     - v. STORAGE: 125 PSF
   - C. SPRINKLER DESIGN LOADS: 250LBS + WEIGHT OF WATER FILLED PIPE
2. LATERAL LOADS:
   - A. WIND DESIGN LOADS – PER CBC SECTION 1609:
     - BASIC WIND SPEED 100 MPH
     - EXPOSURE CATEGORY C
   - B. SEISMIC DESIGN
     - RISK CATEGORY III
     - SEISMIC DESIGN CATEGORY D
     - SITE CLASS D
     - FUNDAMENTAL PERIOD T = 0.27 SECONDS
     - BASIC LATERAL FORCE RESISTING SYSTEM – BUCKLING-RESTRAINED BRACED FRAMES
     - MAPPED SHORT PERIOD ACCELERATION Ss = 1.936 g
     - SITE COEFFICIENT Fa = 1.0
     - DESIGN SHORT PERIOD ACCELERATION SDS = 1.291 g
     - MAPPED ONE SECOND PERIOD ACCELERATION S1 = 0.741 g
     - SITE COEFFICIENT Fv = 1.7
     - DESIGN ONE SECOND ACCELERATION SD1= 0.840 g
     - RESPONSE MODIFICATION FACTOR R = 8
     - IMPORTANCE FACTOR I = 1.25
     - SEISMIC RESPONSE COEFFICIENT, (SDS*I/R) Cs = 0.202

     BASE SHEAR, V= Cs * W = 0.202 W AT STRENGTH LEVEL
3. ALLOWABLE SOIL PRESSURES:
   - DEAD + LIVE LOADS 3,000 PSF
   - DEAD + LIVE + LATERAL LOADS 4,000 PSF

FOUNDATION NOTES

1. **THE SOIL REPORT APPLICABLE TO THIS PROJECT SITE IS BY ROCKRIDGE GEOTECHNICAL AND IS AVAILABLE FOR REVIEW AT THE ARCHITECT'S OFFICE. THE CONTRACTOR SHALL READ THE SOIL REPORT PREPARED FOR THIS PROJECT SITE AND SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK DESCRIBED THEREIN.**
2. FOR BIDDING PURPOSES, THE ELEVATION OF THE BOTTOM OF FOOTINGS SHALL BE AS INDICATED ON THE FOUNDATION PLANS AND ON DETAILS. THESE FOOTING DEPTHS ARE MINIMUM AND SHALL IN NO CASE BE LESS THAN **24' BELOW ADJACENT EXTERIOR GRADE**. SLOPE BOTTOM OF FOOTINGS AT 1:10 MAXIMUM SLOPE AS REQUIRED TO SUIT GRADING AND ADJACENT FOOTING CONDITIONS. STEP BOTTOM OF FOOTINGS PER TYPICAL DETAIL FOR GREATER INCLINATIONS.
3. **SOIL BEARING PRESSURES UNDER FOOTINGS AS DESIGNED DO NOT EXCEED 3000 PSF DUE TO DEAD LOAD PLUS LIVE LOAD NOR EXCEED 4000 PSF DUE TO COMBINED DEAD LOAD PLUS LIVE LOAD PLUS GOVERNING DESIGN WIND OR SEISMIC LOAD.**
4. WHERE FOUNDATION WALL BACKFILL IS NECESSARY, THE BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON EACH SIDE OF WALL, AND THE LEVEL ON ONE SIDE SHALL NOT EXCEED THE OTHER SIDE BY MORE THAN 6 INCHES DURING THIS OPERATION.
5. FOOTINGS SHALL BE CENTERED UNDER BEARING WALLS ABOVE UNLESS OTHERWISE NOTED.
6. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND ANY OTHER INCLUDED DRAWINGS, AND CONSULT WITH THE RESPECTIVE TRADES FOR VERIFICATION OF ALL ITEMS SHOWN OR NOT SHOWN ON STRUCTURAL PLANS PRIOR TO POURING CONCRETE FOOTINGS AND FLOOR SLABS. PIPES OR ELECTRICAL CONDUITS SHALL NOT ROUTE UNDER FOOTINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. IN ALL CASES, PIPES AND CONDUITS SHALL BE EMBEDDED IN TRENCHES FILLED WITH LEAN CONCRETE AND SPACED A MINIMUM 3 DIAMETERS BETWEEN EACH PIPE OR CONDUIT BASED ON THE LARGEST DIAMETER.
7. VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.

CONCRETE NOTES

1. ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED "NOT REINFORCED".
2. SEE THE CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS FOR THE REQUIREMENTS IN THE PRODUCTION, TESTING AND INSTALLATION OF CONCRETE.
3. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION AND EXTENT OF EXTERIOR WALKS AND PAVEMENTS AND FOR REINFORCEMENT REQUIREMENTS.
4. REINFORCEMENT SHALL BE PER ASTM A615, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
5. REINFORCEMENT FOR WELDING, FOR SHEAR WALLS, OR FOR MOMENT FRAMES SHALL BE PER ASTM A706, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
6. CONCRETE SHALL CONFORM TO THE FOLLOWING CLASSES:

CONCRETE CLASS	USE	28 DAY STRENGTH (PSI)	MAX AGGREGATE SIZE (IN)	CONCRETE WEIGHT (PCF)	MAX W/C RATIO %	MIN/MAX FLYASH %
A	FOUNDATIONS	4000	1	145	0.50	25/50
B	WALLS (CIP), STAIR PLINTH AND EXT WALLS	4000 P1	1	145	0.50	15/30
C	SLABS-ON-GRADE	3500	3/4	145	0.50	15/20
D	COLUMNS	6000	1	145	0.50	15/30
E	FILL ON STEEL DECKING	3000	1	125	0.50	15/20
F	EXTERIOR PAVING	2500	3/4	145	0.50	15/20
G	LEAN CONCRETE FILL	1000	1	145	0.55	25/50

7. PORTLAND CEMENT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C94, TYPE I OR II.
8. PROVIDE 15 MIL VAPOR BARRIER CONFORMING TO ASTM E 1745 CLASS A UNDER ALL SLABS ON GRADE.
9. REPLACE CEMENT CONTENT WITH FLYASH CONFORMING TO ASTM C618 CLASS C OR F, OR GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM 989, CLASS 100 OR 120, PER TABLE ABOVE.
10. REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED. "WET-SETTING" WILL NOT BE ALLOWED.
11. REINFORCING BARS WELDED TO STRUCTURAL STEEL SHALL BE SUPPLIED BY REINFORCING BAR SUB-CONTRACTOR AND ALL WELDING SHALL BE DONE BY STRUCTURAL STEEL SUB-CONTRACTOR.
12. BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE SHOWN, SHALL BE:
    - 3" WHERE CONCRETE IS POURED AGAINST EARTH OR AGAINST GROUND CONTACT
    - 2" FOR BARS LARGER THAN #5, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS.
    - 1-1/2" FOR #5 BARS OR SMALLER, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS
    - 1-1/2" FOR COLUMN SPIRAL TIES*
    - 1" FOR WALL BARS (DOUBLE MAT)*
    - 3/4" FOR STRUCTURAL SLAB BARS, TOP AND BOTTOM*

    *UNLESS GOVERNED ABOVE BY EXPOSURE OR NOTED ON DETAILS
13. INTERIOR SLAB ON GROUND SHALL BE REINFORCED AS SHOWN ON STRUCTURAL PLANS. LOCATIONS OF CONSTRUCTION JOINTS OTHER THAN SHOWN ON DRAWINGS MUST BE APPROVED BY THE ARCHITECT.
14. ALL CONCRETE CURBS ARE 6 INCHES HIGH UNLESS OTHERWISE NOTED.
15. WHERE NEW CONSTRUCTION IS INTEGRATED WITH EXISTING CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN SO AS NOT TO DAMAGE EXISTING REMAINING CONCRETE AND REINFORCING. WHERE NEW CONCRETE ABUTS EXISTING CONCRETE, CLEAN EXISTING CONCRETE SURFACE WITH HIGH PRESSURE WATER SPRAY. APPLY APPROVED BONDING AGENT TO SURFACE OF EXISTING CONCRETE.
16. HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE 1/8" GREATER THAN ANCHOR ROD DIAMETER, UNLESS OTHERWISE NOTED. GROUT SHALL BE NON-SHRINK EPOXY. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
17. TERMINATION OF REINFORCEMENT:
    - A. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS, OR DOWELS INTO FOOTINGS OR PERPENDICULAR WALLS OR COLUMNS.
    - B. BEND TOP FOOTING BARS DOWN TO BOTTOM REINFORCING.
    - C. BEND BOTTOM FOOTING BARS UP WITH STANDARD 90 DEGREE BENDS.
    - D. END WALLS WITH HORIZONTAL BARS BENT DOWN OR HORIZONTAL OR BENT INTO PERPENDICULAR WALLS, COLUMNS OR CORNERS.
    - E. PROVIDE DOWELS INTO FOOTINGS FOR WALLS AND COLUMNS OF THE SAME BAR SIZE AND SPACING AS IN WALLS AND COLUMNS. LAP DOWELS PER THE LAP SCHEDULE AT THE BASE OF THE WALL OR COLUMN.
    - F. ALL REINFORCEMENT SHALL LAP PER THE LAP SPLICE SCHEDULE. LAP NO MORE THAN EVERY OTHER BAR AT A SINGLE LOCATION (50% BARS), STAGGER LAPS 5'-0".
    - G. REINFORCEMENT LAPS MAY BE MADE WITH MECHANICAL COUPLERS, TYPE 1, WHICH CAN ACHIEVE 125% OF BAR STRENGTH OR GREATER. SUBMIT ICC EVALUATION REPORT TO STRUCTURAL ENGINEER FOR REVIEW.
18. ROUGHEN SURFACES AND KEY JOINTS AT HARDENED CONCRETE. ROUGHEN ALL SURFACES AT COLD JOINTS TO ¼ INCH AMPLITUDE UNLESS NOTED OTHERWISE IN DETAILS. ROUGHEN ALL JOINTS:
    - A. PROVIDE 1.5" X 3.5" KEY JOINTS AT BOTTOM OF WALLS AND AT ENDS OF WALLS AT COLUMNS, CROSS WALLS OR CORNERS.
    - B. PROVIDE 1.5" X 3.5" X 10" KEY JOINTS AT GRADE BEAMS.
    - C. ROUGHEN SURFACES AT TOPS OF FOOTINGS BELOW WALLS AND COLUMNS.
    - D. A ROUGHEN SURFACES AT TOPS OF ALL WALLS, COLUMNS AND JOINTS WITHIN ELEMENTS.
    - E. SEE ARCHITECTURAL DRAWINGS FOR WATERSTOP LOCATIONS.

CARPENTRY NOTES

1. SILLS ON CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR LARCH 3x THICK AT ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS NOTED ON PLAN. ALL OTHER SILLS ON CONCRETEMAY BE PRESSURE TREATED DOUGLAS FIR LARCH 2x THICK. THEY SHALL BE ANCHORED WITH 5/8" DIAMETER MACHINE BOLTS WITH 7" EMBEDMENT. AT SHEAR WALLS, BOLTS SHALL HAVE NUT, CUT WASHER AND SIMPSON BPS 5/8-6 BEARING PLATE FOR 6 INCH WALLS AND 0.229"x3"x3" PLATE WASHER AT 4 INCH WALLS. AT NON-SHEAR WALLS, BEARING PLATE IS NOT REQUIRED. LOCATE BOLTS 6" MINIMUM AND 12" MAXIMUM FROM EACH END OF EACH STICK AND NOT OVER 48" ON CENTER BETWEEN. SEE SHEAR WALL SCHEDULE OR PLANS FOR SPECIFIC SPACING OF ANCHOR BOLTS WHICH MAY BE NOTED AS LESS THAN 48" ON CENTER. THERE SHALL BE AT LEAST 2 BOLTS IN EACH STICK. WHERE NOTCHES FOR PIPES, ETC., EXCEED 1/3 THE WIDTH OF THE SILL, PLACE A BOLT WITHIN 6" OF EACH SIDE OF NOTCH. TIEDOWN BOLTS SHALL NOT BE CONSIDERED AS SILL BOLTS.
2. FRAMING LUMBER: DOUGLAS FIR-LARCH, MANUFACTURED AND GRADED IN ACCORDANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU "STANDARD GRADING RULES NO. 17", LATEST EDITION INCLUDING ALL SUPPLEMENTS.
   - STRUCTURAL LIGHT FRAMING: NO. 1, 2" TO 4" THICK
   - BEAMS: NO. 1, FREE OF HEART CENTER, 5" AND THICKER
   - POSTS: NO. 1
   - STUDS: 2x4 OR 3x4 - CONSTRUCTION; 2x6 AND LARGER - NO. 2
3. ALL FRAMING LUMBER SHALL BE HAVE A MAXIMUM MOISTURE CONTENT OF 19 PERCENT AT TIME OF INSTALLATION. LUMBER USED IN WALLS AND FLOORS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF CLOSURE.
4. EXTERIOR WALLS SHALL BE CONSTRUCTED OF FIRE TREATED LUMBER AND SHEATHING AND SHALL BE LABELED PER CBC 2303.2.4.
5. STUD AND POST SIZES (UNLESS OTHERWISE NOTED)
   - STUDS AT NEW EXTERIOR WALLS: 2x6 @ 16" ON CENTER
   - STUDS AT NEW INTERIOR WALLS: 2x4 @ 16" ON CENTER
   - POSTS: 4x6
6. BLOCKING AND BRIDGING - PROVIDE AS FOLLOWS:
   - A. 2x SOLID BLOCKING BETWEEN JOISTS AND RAFTERS OVER SUPPORT.
   - B. 2x SOLID BLOCKING BETWEEN JOISTS AND RAFTERS NOT OVER 8'-0" ON CENTER NOR MORE THAN 8'-0" FROM SUPPORT.
   - **C.** OMIT BLOCKING BETWEEN CEILING JOISTS AND RAFTERS 2x8 AND SMALLER.
7. PIPES EXCEEDING ONE-THIRD OF THE PLATE WIDTH SHALL NOT BE PLACED IN PARTITIONS USED AS BEARING OR SHEAR WALLS, UNLESS OTHERWISE DETAILED OR COMPLETELY FURRED CLEAR OF THE STUDS. PIPES SHALL PASS THROUGH THE CENTER OF THE PLATES USING A NEATLY BORED HOLE. NO NOTCHING WILL BE ALLOWED.
8. LAG SCREWS SHALL BE SCREWED (NOT DRIVEN) INTO PLACE. DRILL HOLES SAME DIAMETER AND DEPTH AS SHANK. THEN DRILL HOLE 60-70% OF DIAMETER AT BASE OF THREAD FOR THE THREADED PORTION. USE STEEL PLATE WASHERS AS REQUIRED FOR THE SAME BOLT SIZE.
9. BOLTS IN WOOD SHALL BE MACHINE BOLTS UNLESS OTHERWISE NOTED. ALL MACHINE BOLTS SHALL HAVE CUT THREADS.
10. BOLT HOLES IN WOOD AND STEEL SHALL BE THE DIAMETER OF THE BOLT PLUS 1/16".
11. PROVIDE PLATE WASHER UNDER HEAD AND NUT OF BOLT WHERE BEARING IS AGAINST WOOD. LENGTH OF THREAD SHALL BE SUCH THAT THREADS DO NOT BEAR AGAINST WOOD. ALL NUTS SHALL BE TIGHTENED WHEN PLACED AND RE-TIGHTENED AT COMPLETION OF THE JOB IMMEDIATELY BEFORE CLOSING WITH FINISH CONSTRUCTION.
12. CONNECTORS FOR WOOD CONSTRUCTION NOTED ON PLANS AND DETAILS SHALL BE SIMPSON COMPANY STRONG-TIE CONNECTORS OR APPROVED EQUAL.
13. STUDS SHALL BE ONE PIECE BETWEEN FLOORS AND FROM FLOOR TO ROOF. ALIGN CENTERLINE OF STUDS WITH CENTERLINE OF FLOOR JOISTS. ALIGN CENTERLINE OF STUDS FOR FULL HEIGHT OF STRUCTURE TYPICAL.
14. ALL POSTS SHALL BE FULL HEIGHT FROM FOUNDATION TO ROOF. WHERE POSTS ARE DISCONTINUOUS AT JOIST SPACE AND/OR FROM TOP OF BEAMS/HEADERS TO LOWER TOP PLATE, BLOCK THIS SPACE WITH STUD POST.
15. ALL NON-BEARING PARTITIONS SHALL HAVE DOUBLE JOISTS BELOW WHERE PARTITIONS ARE PARALLEL TO JOISTS, AND FULL DEPTH LSL BLOCKING BELOW WHERE PARTITIONS ARE PERPENDICULAR TO JOISTS.
16. JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DOUBLE JOISTS (DJ) UNLESS NOTED OTHERWISE.
17. FASTENERS PENETRATING PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D.

SHEATHING NOTES

1. ROOF, FLOORS, ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS (WHERE NOTED ON STRUCTURAL PLANS) SHALL BE SHEATHED WITH DOUGLAS FIR SHEATHING WITH EXTERIOR GLUE AS FOLLOWS:
   - ROOF: 1 1/8" T&G APA STRUCTURAL I RATED SHEATHING, 48/24, EXPOSURE 1
   - FLOOR: 1/2" , APA STRUCTURAL I RATED SHEATHING, 48/24, EXPOSURE 1 (OVER ENGINEERED DECKING PER PLAN)
   - WALLS: 1/2", APA STRUCTURAL I RATED SHEATHING, 32/16, EXPOSURE 1
2. SHEATHING MAY BE ORIENTED STRAND BOARD OR PLYWOOD UNLESS SPECIFICALLY NOTED AS PLYWOOD. OSB IS NOT ALLOWED AT EXTERIOR WALLS, CEILINGS, OR ROOFS.
3. ALL EXTERIOR WALLS SHALL BE SHEATHED.
4. P1 ALL SHEATHING USED STRUCTURALLY SHALL EXTEND CONTINUOUSLY BEHIND ALL FINISH. WHERE IT IS TO BE PLASTERED, IT SHALL BE PROTECTED BY AN UNBROKEN LAYER OF MOISTURE-TIGHT PAPER UNDER LATHING.
5. PROVIDE "A" GRADE FACE SHEATHING WHERE SHEATHING IS EXPOSED TO VIEW. SEAL EXPOSED SHEATHING FACES.
6. IN GENERAL, SHEETS SHALL BE 4'-0" x 8'-0". MINIMUM SHEET DIMENSION IS 24 INCHES, UNLESS ALL EDGES ARE FULLY SUPPORTED BY FRAMING MEMBERS OR BLOCKING. THE LONG DIMENSION MAY BE LAID EITHER HORIZONTALLY OR VERTICALLY AT WALLS. ROOF AND FLOOR SHEETS SHALL BE LAID WITH FACE PLIES ACROSS JOISTS OR FRAMING MEMBERS AND WITH END JOINTS STAGGERED 4'-0". USE PLYCLIPS HALFWAY BETWEEN EACH SUPPORT AT UNBLOCKED ROOFS. ALL SHEATHING JOINTS SHALL BE ACCURATELY CENTERED ON SUPPORTING ELEMENTS, INCLUDING BLOCKING. BLOCKING BETWEEN JOISTS FOR EDGE NAILING SHALL BE 3x4 MINIMUM FLAT BLOCKING, EXCEPT WHERE DETAILED OTHERWISE. ROOF AND FLOOR SHEATHING MAY BE UNBLOCKED. GLUE FLOOR SHEATHING TO ALL SUPPORTS INCLUDING BLOCKING WITH AN ADHESIVE RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION FOR THIS PURPOSE.

NAILING NOTES

1. ALL NAILS SHALL BE COMMON WIRE NAILS. WHERE NAILS TEND TO SPLIT THE WOOD, NAIL HOLES SHALL BE PRE-DRILLED.
2. PROVIDE MINIMUM NAILING REQUIREMENTS AS SET FORTH IN CALIFORNIA BUILDING CODE TABLE 2304.10.1 EXCEPT THAT BOX NAILS SHALL NOT BE USED.
3. PLYWOOD NAILING:
   - AT ROOF: AS NOTED ON PLANS.
   - AT FLOOR: AS NOTED ON PLANS.
   - AT WALLS: SEE SHEAR WALL SCHEDULE.
4. MAINTAIN ACCURATE NAIL SPACING AS INDICATED. NAIL SPACING CLOSER THAN SPECIFIED WILL BE CAUSE FOR REJECTION OF THE WORK.
5. NAILS PENETRATING PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D. NAILS FOR STAINLESS STEEL CONNECTORS SHALL BE STAINLESS STEEL.

STRUCTURAL GLUED LAMINATED MEMBER NOTES

1. ALL STRUCTURAL GLUED LAMINATED MEMBERS SHALL BE COMBINATION 24F-V4 DF/DF FABRICATED AND ERECTED IN ACCORDANCE WITH ANSI/ASTM STANDARD A190.1 AND ASTM D3737.
2. ALL STRUCTURAL GLUED LAMINATED MEMBERS EXPOSED TO THE WEATHER SHALL BE COMBINATION 20F/V12 AC/AC WITH A MINIMUM OF 90% HEARTWOOD.
3. ADHESIVE SHALL BE EXTERIOR TYPE ADHESIVE MEETING REQUIREMENTS OF U.S. COMMERCIAL STANDARD PS-56 AND ASTM 2559.
4. THE FABRICATOR SHALL FURNISH AITC CERTIFICATES TO THE STRUCTURAL ENGINEER AND THE BUILDING INSPECTION DEPARTMENT PRIOR TO FRAMING INSPECTION.
5. SEE ARCHITECTURAL SPECIFICATIONS FOR APPEARANCE AND FINISH REQUIREMENTS.

PRE-ENGINEERED WOOD I-JOIST NOTES

1. ALL PRE-ENGINEERED WOOD I-JOISTS SHALL BE [INSERT] UNLESS OTHERWISE NOTED.
2. TJI JOIST SERIES SHALL CONFORM TO ICC ES ESR-1387 AND ICC ES ESR-1153.
3. TEMPORARY BRACING AND BRIDGING PER MANUFACTURER'S RECOMMENDATIONS SHALL BE INSTALLED TO HOLD WOOD I-JOIST TRUE AND PLUMB UNTIL PERMANENT ROOF SHEATHING IS INSTALLED.

EPOXY ANCHORS AND DOWELS IN HARDENED CONCRETE NOTES

1. EPOXY FOR SETTING ANCHORS OR DOWELS IN HARDENED CONCRETE SHALL BE SIMPSON SET-3G PER ESR 4057, HILTI HIT-RE 500v3 PER ESR 3814, OR APPROVED EQUAL.
2. HOLES FOR EPOXY ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS (AS REQUIRED USING X-RAY) PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
3. USE SCREEN TUBE WHERE REQUIRED BY EPOXY MANUFACTURER IN HOLLOW MASONRY OR BRICK CONSTRUCTION. VERIFY HOLE DIAMETER FOR SCREEN TUBE PRIOR TO DRILLING.
4. JOB TESTING AND INSPECTION: CONTINUOUS SPECIAL INSPECTION OF ALL ANCHOR AND DOWEL INSTALLATION IS REQUIRED. TESTING SHALL BE AS FOLLOWS:
   - A. THREADED RODS: TEST FIRST 5 INSTALLED RODS OF EACH SIZE TO TENSION PROOF LOAD SHOWN ON EPOXY ANCHOR SCHEDULE. IF ALL PASS, TEST 5% OF REMAINING RODS. IF ANY ROD FAILS, TEST ALL RODS UNTIL 10 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME 5% TESTING FREQUENCY. THE LOAD TEST SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
   - B. HOLDOWN ANCHORS: TEST 100% OF ANCHORS USED TO TENSION PROOF LOAD PER TABLE ON TYPICAL HOLDOWN DETAIL.
   - C. REINFORCING BAR ANCHORS, #5 AND LARGER: TEST PER THREADED ROD REQUIREMENTS ABOVE
   - D. REINFORCING BAR ANCHORS #4 AND SMALLER: NO TESTING REQUIRED. VISUAL OBSERVATION ONLY.
5. UNLESS OTHERWISE SHOWN IN THE DRAWINGS, ALL HOLES SHALL BE DRILLED PERPINDICULAR TO THE CONCRETE SURFACE

TESTS, INSPECTIONS AND OBSERVATIONS NOTES

1. TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE.
2. SEE STATEMENT OF SPECIAL INSPECTIONS, WHEN INCLUDED, FOR SPECIAL INSPECTION REQUIRMENTS.
3. THE FOLLOWING ITEMS SHALL HAVE SPECIAL INSPECTION.
   - A. REINFORCING STEEL
   - B. CONCRETE PLACEMENT
   - C. ALL STRUCTURAL WELDING
   - D. HIGH STRENGTH BOLTING OF STEEL MEMBERS
   - E. NAILING OF PLYWOOD OR OSB WALLS AND DIAPHRAGMS WHERE NAIL SPACING IS 4 INCHES ON CENTER OR LESS
   - F. SEISMIC STRAPS, CLIPS AND HOLDOWNS
   - G. POST INSTALLED ANCHORS IN CONCRETE – EXPANSION ANCHORS, EPOXY ANCHORS, ETC.
4. IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD:
   - A. REINFORCING STEEL
   - B. STRUCTURAL STEEL CONSTRUCTION
   - C. NAILING OF PLYWOOD ON WALLS, FLOORS AND ROOF
   - D. SEISMIC STRAPS, CLIPS AND TIE-DOWN SYSTEMS
5. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.
7. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR INSPECTOR A MINIMUM OF 48 HOURS (EXCLUDING WEEKEND DAYS) PRIOR TO THE TIME OF A REQUIRED INSPECTION.

DELEGATED DESIGN ELEMENTS

1. DELEGATED DESIGN ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. DELEGATED DESIGN ELEMENTS ASSUMED TO BE DESIGNED BY THE CONTRACTOR INCLUDE THOSE LISTED BELOW. SEE DEFERRED APPROVALS LIST FOR ADDITIONAL DELEGATED DESIGN ELEMENTS REQUIRING APPROVAL OF AGENCY HAVING JURISDICTION.
   - A. TEMPORARY SHORING AND BRACING.
   - B. SITE SHORING.
   - C. CONCRETE FORMWORK AND FALSEWORK.
   - D. OTHER DESIGN REQUIRED FOR TEMPORARY MEANS AND METHODS OF THE CONTRACTOR.
   - E. CONCRETE MIX DESIGNS.
   - F. ANCHORAGE AND BRACING OF ALL MEP EQUIPMENT AND DISTRIBUTION LINES (EXCEPT FOR ITEMS SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.
   - G. INTERIOR LIGHT GAUGE FRAMED PARTITIONS.
   - H. EXTERIOR LIGHT GAUGE FRAMED FURRING.
   - I. VENDOR-SUPPLIED CLADDING (EXCEPT FOR SPECIFICALLY DETAILED BACK-UP AND SUPPORT STEEL).
   - J. SKYLIGHTS.
   - K. ELEVATORS (EXCEPT FOR GUIDERAIL SUPPORT TUBES AND HOIST BEAM).
   - L. FALL ARREST SYSTEMS AND EXTERIOR BUILDING MAINTENANCE SYSTEMS (EXCEPT FOR SPECIFICALLY DETAILED SUPPORT FRAMING).
   - M. PREFABRICATED LADDERS.
   - N. GUIDERAILS AND HANDRAILS.
   - O. STOREFRONT SYSTEMS (DESIGN FOR MAXIMUM WIND PRESSURE OF +21 PSF WINDWARD AND -23 PSF LEEWARD).
   - P2 P. METAL FIRE EXIT STAIR 2 STRUCTURE.

DEFERRED APPROVALS

1. SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A CALIFORNIA-LICENSED ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT AND BUILDING DEPARTMENT FOR THE FOLLOWING ITEMS:
   - A. STEEL STAIRS AS NOTED ON PLANS.
   - C. BUCKLING RESTRAINED BRACED FRAMES (SEE DESIGN CRITERIA SHEET S1.1)

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REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
GENERAL NOTES

Drawing No.
S0.01
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:08:45 AM
DRAWING NAME: BIM 360://Mosswood/IDA18115_Mosswood_Struct_R21.rvt

SYMBOLS AND ABBREVIATIONS

A/S2.1	SECTION A ON DRAWING S2.1
@	AT
&	AND
°	DEGREE
Ø OR DIA	DIAMETER
#	NUMBER OR POUND
(E)	EXISTING
(N)	NEW
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT OR ARCHITECTURAL
ATS	ANCHOR TIEDOWN SYSTEM
ATTN	ATTENTION
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
BRB	BUCKLING-RESTRAINED BRACE
BS	BOTH SIDES
BTWN	BETWEEN
C	CONTROL JOINT
CBC	CALIFORNIA BUILDING CODE
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE OR CONCENTRATED
COND	CONDITION
CONN	CONNECTION
CONT	CONTINUOUS
CP	COMPLETE PENETRATION WELD
CTSK	COUNTERSINK
d	PENNY
D	DEPTH
DBL	DOUBLE
DJ	DOUBLE JOIST
DCW	DEMAND CRITICAL WELD
DEMO	DEMOLISH
DET	DETAIL
DF	DOUGLAS FIR
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DJ	DOUBLE JOIST
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DP	DEEP
DTLS	DETAILS
DWG(S)	DRAWING(S)
EA	EACH
EB	EXPANSION BOLT
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAILING
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
ETC	ETCETERA
EW	EACH WAY
EXC	EXCAVATE
EXT	EXTERIOR

FDN	FOUNDATION
FF	FINISH FLOOR
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FS	FAR SIDE
FT	FEET
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLM	GLUED LAMINATED
GYP BD	GYPSUM BOARD
HD	HOLDOWN
HDG	HOT-DIPPED GALVANIZED
HDR	HEADER
HGR	HANGER
HOR	HORIZONTAL
HP	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR
INV	INVERT
JST	JOIST
JT(S)	JOINT(S)
K	KIPS (1000 LBS)
LBS	POUNDS
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSL	TIMBERSTRAND LAMINATED STRAND LUMBER
LT	LIGHT
LTWT	LIGHTWEIGHT
LVL	MICROLLAM LAMINATED VENEER LUMBER
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
NS	NEAR SIDE
OSB	ORIENTED STRAND BOARD
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
P#	STEEL PIPE (# = NOMINAL DIAMETER)
PERF	PERFORATED
PDF	POWDER DRIVEN FASTENER
PDP	POWDER DRIVEN PIN
PHD	PREDEFLECTED HOLDOWN
PL	PLATE
PP	PARTIAL PENETRATION WELD
PROP	PROPERTY
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
PSL	PARALLAM PARALLEL STRAND LUMBER

PT	POINT
PTDF	PRESSURE TREATED DOUGLAS FIR LUMBER
PTN	PARTITION
PW	STRUCTURAL PLYWOOD
PW EN	PLYWOOD EDGE NAILING
QAP	QUALITY ASSURANCE PROGRAM
RAD	RADIUS
RBS	REDUCED BEAM SECTION
RDP	REGISTERED DESIGN PROFESSIONAL
REF	REFERENCE
RECT	RECTANGULAR
REINF	REINFORCING
REQD	REQUIRED
RET WALL	RETAINING WALL
RW	REDWOOD LUMBER
SAD	SEE ARCHITECTURAL DRAWING
OR SEE ARCHITECTURAL DETAIL	
SCD	SEE CIVIL/SITE DRAWINGS
SCHED	SCHEDULE
SEC	SECTION
SED	SEE ELECTRICAL DRAWINGS
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLD	SEE LANDSCAPE DRAWINGS
SLRS	SEISMIC LOAD RESISTING SYSTEM
SMD	SEE MECHANICAL DRAWINGS
OR SEE MECHANICAL DETAIL	
SMS	SHEET METAL SCREW
SOG	SLAB ON GRADE
SPD	SEE PLUMBING DRAWINGS
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	SOLID SAWN
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SWL	SHEAR WALL LENGTH
SYM	SYMMETRICAL
TB	TIE BEAM
T&B	TOP & BOTTOM
TDS	TIEDOWN SYSTEM
T&G	TONGUE & GROOVE
THK	THICK
THRU	THROUGH
TN	TOENAIL
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TO PW	TOP OF PLYWOOD
TOS	TOP OF STEEL OR SLAB
TOW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
URM	UNREINFORCED MASONRY
VENT	VENTILATION
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WD	WOOD
WF	WIDE FLANGE
W/O	WITHOUT
WP	WATERPROOF OR WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

LEGEND

CONTINUOUS WOOD MEMBER IN SECTION

NON-CONTINUOUS WOOD MEMBER IN SECTION

NEW STUD WALL IN PLAN

PLYWOOD SHEAR WALL MARK
SEE SHEAR WALL SCHEDULE
# DENOTES MINIMUM LENGTH OF WALL
(SAD FOR ACTUAL LENGTH)

HD — SIMPSON STRONG-TIE HOLDOWN TO 6x6 POST

NEW FOUNDATION CONCRETE IN PLAN

NEW CONCRETE MASONRY UNIT WALL IN PLAN

D= — NEW DRILLED PIER IN PLAN
"D" DENOTES DEPTH OF PIER IN SUPPORTING MATERIAL
SEE TYPICAL DETAILS

STEEL MOMENT CONNECTION IN PLAN

REDUCED BEAM SECTION IN PLAN

SHEET LIST

NUMBER	SHEET
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES CONTINUED AND ABBREVIATION
S0.03	SPECIAL INSPECTION AND QUALITY ASSURANCE
S0.04	2ND FLOOR LIVE LOADING DIAGRAM
S1.03	TYPICAL CONCRETE DETAILS
S1.04	TYPICAL WOOD DETAILS
S1.05	TYPICAL WOOD DETAILS
S1.06	TYPICAL STEEL DETAILS
S2.01	FOUNDATION PLAN
S2.02	SECOND FLOOR AND LOW ROOF FRAMING PLAN
S2.03	ROOF FRAMING PLAN
S2.04	UPPER MECHANICAL FRAMING PLANS
S3.01	EXTERIOR ELEVATION
S3.02	EXTERIOR ELEVATION
S3.03	EXTERIOR ELEVATION
S3.04	EXTERIOR ELEVATION
S3.05	BRACED FRAMED ELEVATIONS
S3.06	BRACED FRAMED ELEVATIONS
S3.07	BUILDING SECTIONS
S3.08	BUILDING SECTIONS
S3.09	BUILDING SECTIONS
S3.10	BUILDING SECTIONS
S3.11	BUILDING SECTIONS
S4.01	FOUNDATION ENLARGED PLAN
S4.02	FOUNDATION DETAILS
S4.03	FOUNDATION DETAILS
S4.04	FOUNDATION DETAILS
S5.01	SECOND FLOOR DETAILS
S6.01	ROOF FRAMING DETAILS
S6.02	FRAMING DETAILS
S6.03	FRAMING DETAILS
S6.04	FRAMING DETAILS
S7.01	BRB DETAILS
S7.02	BRB DETAILS
S9.01	STAIR 1 DETAILS

BRB BRACE PROPERTIES

BRB FRAME ID	LEVEL / STORY	FRAME GRID LINE	GRID FROM-TO	CB-ID	W_{wp} in	H_{wp} in	A_{sc} in²	$F_{yse,min}$ ksi	$F_{yse,max}$ ksi	L_{wp} in	L_{ysc} in	K_{eff} kips/in	K_f K_{eff} / $K_{L\ wp}$	P_{y_min} kips	P_{y_max} kips	CASING	STROKE in	β	ω
LINE 1	2ND-ROOF	1	F-E	CB-1.75	234	189	1.75	38	46	301	210	218	1.30	67	81	t7x7x1/4	3.00	1.19	1.34
LINE 1	1ST-2ND	1	F-E	CB-2.00	234	155	2.00	38	46	279	180	289	1.39	76	92	t8x8x1/4	2.00	1.19	1.34
LINE 4	2ND-ROOF	4	E-F	CB-1.75	234	189	1.75	38	46	301	201	227	1.34	67	81	t7x7x1/4	3.00	1.19	1.35
LINE 4	1ST-2ND	4	E-F	CB-1.75	234	155	1.75	38	46	281	167	266	1.47	67	81	t7x7x1/4	3.00	1.20	1.36
LINE B	2ND-ROOF	B	3-4	CB-1.75	228	201	1.75	38	46	304	195	232	1.39	67	81	t7x7x1/4	3.00	1.20	1.36
LINE B	1ST-2ND	B	3-4	CB-2.25	228	155	2.25	38	46	276	161	357	1.51	86	104	t8x8x1/4	3.00	1.21	1.36
LINE F	2ND-ROOF	F	4-3	CB-1.75	228	172	1.75	38	46	286	176	256	1.44	67	81	t7x7x1/4	3.00	1.21	1.36
LINE F	1ST-2ND	F	4-3	CB-1.75	228	155	1.75	38	46	276	164	271	1.47	67	81	t7x7x1/4	3.00	1.20	1.36

Table of Symbols

W_{WP}	Width of frame bay workpoint WP to WP
H_{WP}	Height of frame bay WP to WP
Casing	Size & type of casing = HSS ASTM A500 Grade B
Type	t = tube (HSS) and p = pipe
A_{sc}	Cross sectional area of core at yield section
K_{eff}	Effective Stiffness of BRB from WP to WP
K_f	Axial Stiffness Adjustment Factor
P_{ysc}	Yield force of CB (Asc x Fysc)
F_{ysc}	Specified yield stress range of core plate

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Drawn by: AI. AP, JML, KF
Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
GENERAL NOTES CONTINUED AND ABBREVIATION

Drawing No.
S0.02
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:08:45 AM
DRAWING NAME: BIM 360:/Mosswood/DA18115_Mosswood_Struct_R21.rvt

SCHEDULE OF SPECIAL INSPECTION SERVICES AND STRUCTURAL OBSERVATIONS

THIS SCHEDULE IS INTENDED TO MEET SECTIONS 1705 AND 1706 OF THE CALIFORNIA BUILDING CODE FOR SEISMIC RELATED SYSTEMS.
THIS TABLE IS IN ADDITION TO ALL OTHER SPECIAL INSPECTIONS LISTED AND DOES NOT SUPERSEDE ANY CODE OR OTHER SPECIFIED REQUIREMENTS ON THESE DRAWINGS. SEE STATEMENT OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

DESIGNATED SYSTEM & CODE REFERENCE	VERIFICATIONS AND SPECIAL INSPECTIONS	FREQUENCY OF SPECIAL VERIFICATION/ INSPECTION	REPORTS REQUIRED	SERVICE OR SPECIAL INSPECTION	FREQUENCY OF TESTING	REPORTS REQUIRED	STRUCTURAL OBSERVATION TO BE PERFORMED BY SEOR	REPORTS REQUIRED
GENERAL 1704.2.1	INSPECT FABRICATOR'S QUALITY CONTROL	NA	NA	NA	NA	NA		
STEEL 1704.3 AND 1708.4	VERIFICATION OF MATERIALS FOR HIGH-STRENGTH BOLTS	EACH SUBMITTAL	PERIODIC AND FINAL	REVIEW MATERIAL MARKINGS AND CERTIFICATES OF COMPLIANCE	NA	NA		
	INSPECTION OF HIGH-STRENGTH BOLTS	PERIODIC	PERIODIC AND FINAL	NA	NA	NA		
	VERIFICATION OF MATERIALS FOR STRUCTURAL STEEL	EACH SUBMITTAL	PERIODIC AND FINAL	REVIEW IDENTIFICATION MARKINGS AND CERTIFIED MILL TESTS	NA	NA		
	VERIFICATION OF WELD FILLER MATERIALS	PERIODIC AND EACH SUBMITTAL	PERIODIC AND FINAL	REVIEW CERTIFICATE OF COMPLIANCE AND FIELD VERIFICATION	NA	NA		
	INSPECTION OF WELDING AT STRUCTURAL STEEL:							
	A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS	DAILY AND FINAL	SHOP AND FIELD INSPECTION: SHOP AND FIELD TESTING: ULTRASONICALLY TEST FOR DISCONTINUITIES BEHIND AND ADJACENT TO WELDS WITH BASE METAL THICKER THAN 1.5 INCHES WHERE SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS.	EACH OCCURRENCE	PER TEST		
	B. MULTIPASS FILLET WELDS	CONTINUOUS	DAILY AND FINAL	SHOP AND FIELD INSPECTION				
	C. SINGLE-PASS FILLET WELDS > 5/16"	CONTINUOUS	DAILY AND FINAL	SHOP AND FIELD INSPECTION				
	D. SINGLE-PASS FILLET WELDS ≤ 5/16"	PERIODIC	PERIODIC AND FINAL	SHOP AND FIELD INSPECTION	NA	NA		
	E. ROOF DECK WELDS	PERIODIC	PERIODIC AND FINAL	SHOP AND FIELD INSPECTION	NA	NA		
	INSPECTION OF STEEL FRAME JOINT DETAILS							
	A. MEMBER LOCATIONS	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA	FINAL BEFORE COVERING	PER VISIT
	B. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA	FINAL BEFORE COVERING	PER VISIT
	INSPECTION OF WELDED STUDS AT SLRS/STRUCTURAL DIAPHRAGM	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA		
	WELDING OF COLD-FORMED SHEET SLRS FRAMING MEMBERS	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA	FINAL BEFORE COVERING	PER VISIT
CONCRETE 1704.4	REVIEW REINFORCING MILL TEST REPORTS	EACH SUBMITTAL	PERIODIC AND FINAL	FIELD REVIEW	NA	NA		
	INSPECT REINFORCING PLACEMENT	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA	REPRESENTATIVE SAMPLE LAYOUT OF REINF STEEL	PER VISIT
	VERIFY CONCRETE MIX	PERIODIC	PERIODIC AND FINAL	REVIEW SUBMITTALS	NA	NA		
	TEST CONCRETE	CONTINUOUS	DAILY AND FINAL	STRENGTH, SLUMP, AIR CONTENT, TEMPERATURE	PER BATCH	PER TEST		
	INSPECT CONCRETE PLACEMENT	CONTINUOUS	DAILY AND FINAL	FIELD REVIEW	NA	NA		
	INSPECT CONCRETE CURING OPERATIONS	PERIODIC	PERIODIC AND FINAL	FIELD REVIEW	NA	NA		
	INSPECT CAST-IN-PLACE BOLTS PRIOR TO AND DURING PLACEMENT OF CONCRETE	CONTINUOUS	DAILY AND FINAL	FIELD INSPECTION	NA	NA	REPRESENTATIVE SAMPLE LAYOUT OF CAST-IN-PLACE BOLTS	PER VISIT
SOILS 1704.7	VERIFICATION OF MATERIALS BELOW FOOTINGS OF DESIRED BEARING CAPACITY	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA		
	VERIFICATION OF EXCAVATIONS	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA		
	VERIFICATION OF MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	CONTINUOUS	DAILY AND FINAL	FIELD INSPECTION	NA	NA		
	VERIFICATION OF SUBGRADE PREPARATION	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA		
CONCRETE FOUNDATION 1704.4 1708.3	REVIEW REINFORCING MILL TEST REPORTS	EACH SUBMITTAL	NA	FIELD REVIEW	NA	NA		
	INSPECT REINFORCING PLACEMENT	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION	NA	NA	REPRESENTATIVE SAMPLE LAYOUT OF REINFORCING	PER VISIT
	VERIFY CONCRETE MIX	PERIODIC	PERIODIC AND FINAL	REVIEW SUBMITTALS	NA	NA		
	TEST CONCRETE	CONTINUOUS	DAILY AND FINAL	STRENGTH, SLUMP, AIR CONTENT, TEMPERATURE	PER BATCH	PER TEST		
	INSPECT CONCRETE PLACEMENT	CONTINUOUS	DAILY AND FINAL	FIELD REVIEW	NA	NA		
	INSPECT CONCRETE CURING OPERATIONS	PERIODIC	PERIODIC AND FINAL	FIELD REVIEW	NA	NA		
	INSPECT CAST-IN-PLACE BOLTS PRIOR TO AND DURING PLACEMENT OF CONCRETE	CONTINUOUS	DAILY AND FINAL	FIELD INSPECTION	NA	NA	REPRESENTATIVE SAMPLE LAYOUT OF CAST-IN-PLACE BOLTS	PER VISIT
SEISMIC RESISTANCE 1707.2 1707.3	SPECIAL INSPECTION FOR WELDING IN ACCORDANCE WITH AISC 341.	CONTINUOUS	DAILY AND FINAL	FIELD INSPECTION				
	INSPECT FIELD GLUE OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING-SYSTEM.	CONTINUOUS	DAILY AND FINAL	FIELD INSPECTION				
	INSPECT NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING:	PERIODIC	PERIODIC AND FINAL	FIELD INSPECTION			REPRESENTATIVE SAMPLE	PER VISIT
	A. WOOD SHEAR WALLS							
	B. WOOD DIAPHRAGMS							
	C. DRAG STRUTS							
	D. SHEAR PANELS							
	E. HOLD-DOWNS							
	BUCKLING RESTRAINED BRACES	PERIODIC	PERIODIC AND FINAL	SHOP AND FIELD INSPECTION				

P1

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Designed by: Designer
Checked by: Checker

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Project Information
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Drawing Title
SPECIAL INSPECTION AND QUALITY ASSURANCE

Drawing No.
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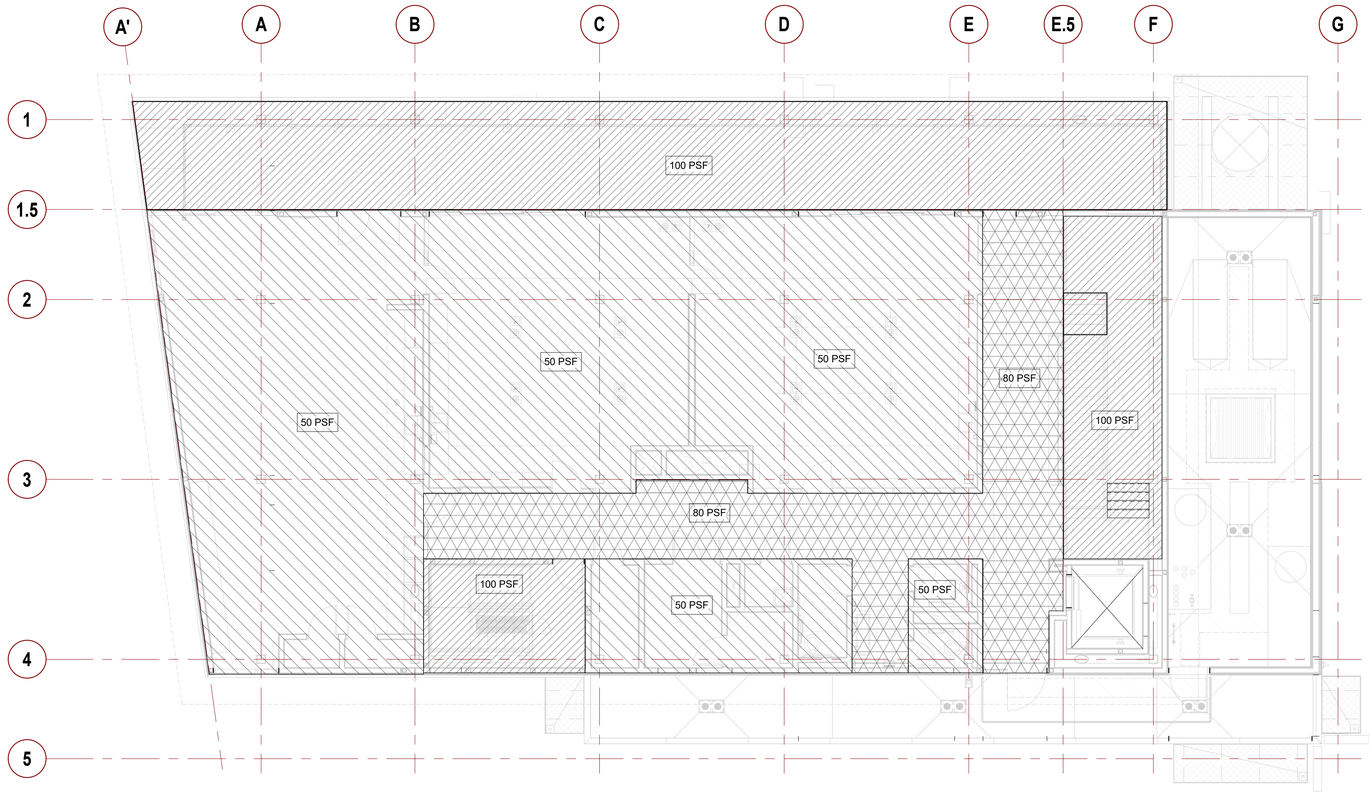

1 / S0.04 **SECOND FLOOR LIVE LOADING DIAGRAM**

1/8" = 1'-0"

P1

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STATE OF CALIFORNIA

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Drawing Title
2ND FLOOR LIVE LOADING DIAGRAM

Drawing No.
S0.04

Sheet No.

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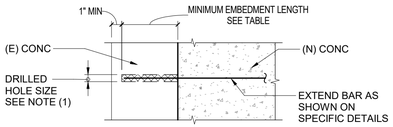


BAR SIZE	THREADED ROD SIZE	MINIMUM EMBEDMENT LENGTH (2), (3)	TENSION PROOF LOAD (LBS)	
			REINFORCING BAR	THREADED ROD
#3	3/8"ø	3 1/2"	-	5,100
#4	1/2"ø	4 1/4"	-	8,850
#5	5/8"ø	5"	12,300	13,360
#6	3/4"ø	6 3/4"	19,190	21,050
#7	7/8"ø	7 3/4"	23,880	24,580
#8	1"ø	9"	26,840	30,030

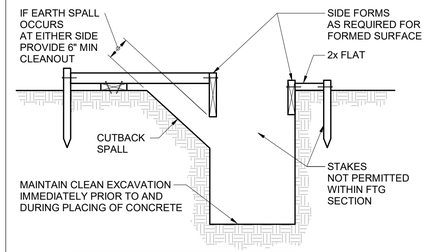
NOTES:
1. FOLLOW SPECIFIC MANUFACTURER GUIDELINES FOR DRILLED HOLE DIAMETER.
2. EMBEDMENT LENGTHS SHOWN ON SPECIFIC DETAILS SUPERCEDE THIS SCHEDULE.
3. ANCHOR EMBEDMENT INTO WALLS AND SLABS SHALL NOT EXCEED THICKNESS (IN DIRECTION OF DRILLING) MINUS ONE INCH.
4. SEE SPECIFICATIONS FOR GROUT REQUIREMENTS. SUBMIT GROUT TECHNICAL INFORMATION TO STRUCTURAL ENGINEER FOR APPROVAL.
5. THREADED RODS SHALL BE PER ASTM A193. GRADE B7.
6. TENSION PROOF LOAD IS 2x ALLOWABLE LOAD IN 2000 PSI CONCRETE BASED ON A.S.D.

17 S1.03 GROUTED ANCHOR SCHEDULE
NTS

CONCRETE STRENGTH PSI	BAR TYPE	BAR SIZE																	
		#3		#4		#5		#6		#7		#8		#9		#10		#11	
		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
2500	TOP BAR	24	31	32	41	39	51	47	61	69	89	78	102	88	115	100	129	110	143
	ALL OTHER BARS	18	24	24	32	30	39	36	47	53	69	60	78	68	88	77	100	85	110
3000	TOP BAR	22	28	29	37	36	47	43	56	63	81	72	93	81	105	91	118	101	131
	ALL OTHER BARS	17	22	22	29	28	36	33	43	48	63	55	72	62	81	70	91	78	101
4000	TOP BAR	19	24	25	33	31	41	37	49	54	71	62	81	70	91	79	102	87	113
	ALL OTHER BARS	15	19	19	25	24	31	29	37	42	54	48	62	54	70	61	79	67	87
5000	TOP BAR	17	22	23	29	28	36	34	43	49	63	56	72	63	81	70	92	78	102
	ALL OTHER BARS	13	17	17	23	22	28	26	34	38	49	43	56	48	63	54	70	60	78

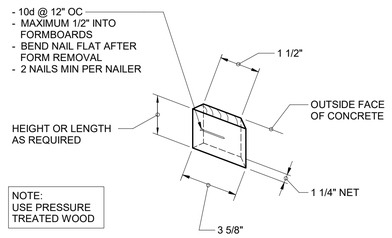
NOTES:
1. SPLICE LENGTH IN INCHES.
2. USE CLASS B FOR ALL LAP SPLICES EXCEPT CLASS A MAY BE USED FOR NON-STRUCTURAL SLABS ON GRADE.
3. TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS.
4. TABLE IS BASED UPON MINIMUM CLEAR COVER GREATER THAN ONE BAR DIAMETER AND MINIMUM CLEAR SPACING GREATER THAN TWO BAR DIAMETERS. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.

9 S1.03 REINFORCING BAR LAP SPLICE SCHEDULE IN CONCRETE
NTS

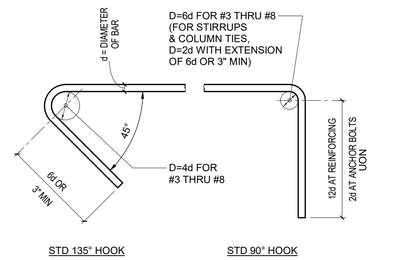


NOTE:
APPLICABLE WHERE SIDE FORMS CAN BE OMITTED AND APPROVED BY THE ARCHITECT

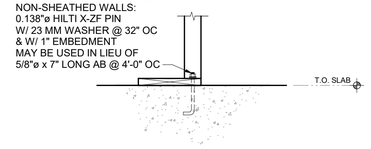
1 S1.03 TRENCHED FOOTING DETAIL
NTS



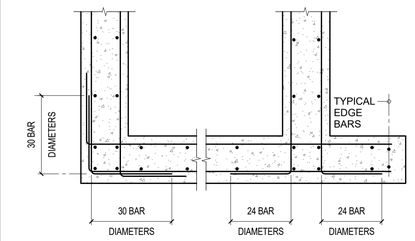
18 S1.03 BUILT-IN NAILER IN CONCRETE
NTS



14 S1.03 TYPICAL REINFORCING BAR & ANCHOR BOLT HOOK
NTS

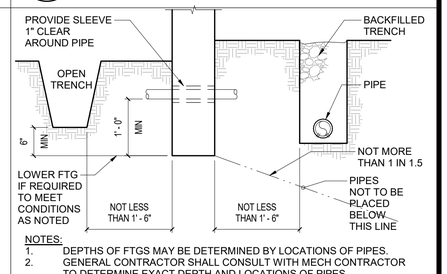


10 S1.03 TYP NON-BEARING STUD WALLS ON CONCRETE SLAB/FILL
NTS



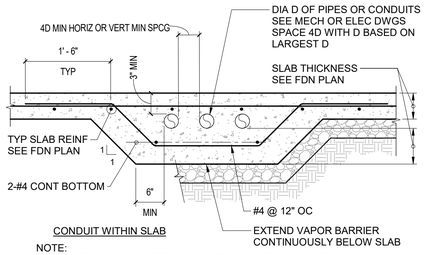
DOUBLE CURTAIN PLAN
MULT CURTAIN PLAN SIM

6 S1.03 TYPICAL REINFORCING AT WALL & FOOTING CORNERS
NTS



NOTES:
1. DEPTHS OF FTGS MAY BE DETERMINED BY LOCATIONS OF PIPES.
2. GENERAL CONTRACTOR SHALL CONSULT WITH MECH CONTRACTOR TO DETERMINE EXACT DEPTH AND LOCATIONS OF PIPES.
3. NO PIPES SHALL PASS UNDER FOOTINGS.
4. THE ZONE OF INFLUENCE LINE MAY BE INCREASED TO A SLOPE OF 1 IN 1 IF THE TRENCH ADJACENT TO THE FOOTING IS EXCAVATED AND COMPACTED PRIOR TO THE EXCAVATION FOR THE FOUNDATIONS.
5. WHERE PIPES ARE CAST INTO THE ZONE OF INFLUENCE THE BOTTOM OF FOOTING CAN BE EXTENDED DOWNWARD WITH ADDITIONAL EXCAVATION TO LOWER ZONE OF INFLUENCE LINE BELOW PIPE EXCAVATION AND PLACEMENT OF LEAN CONCRETE TO BOTTOM OF FOOTING.

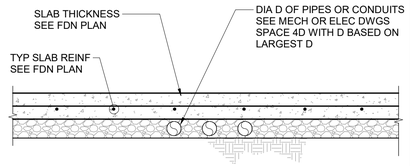
2 S1.03 RELATION OF PIPES & TRENCHES ADJACENT TO FOOTINGS
NTS



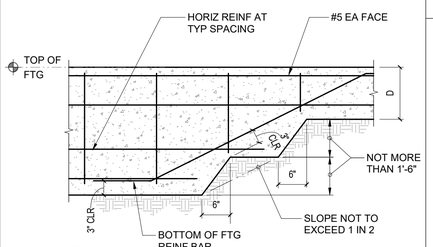
CONDUIT WITHIN SLAB

NOTE:
1. STRUCTURAL ENGINEER TO APPROVE ROUTING OF PIPES IN SLAB.
2. CRISS-CROSSING PIPES AND CONDUITS ON TOP OF EACH OTHER WITHIN THE SLAB IS NOT ALLOWED.

15 S1.03 CONDUIT AT SLAB ON GRADE
NTS

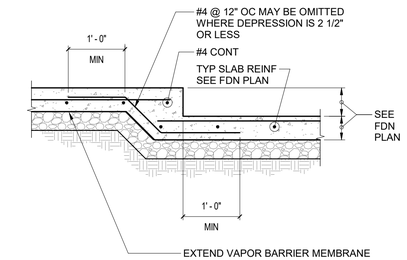


CONDUIT BENEATH SLAB

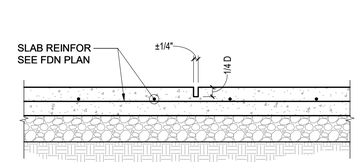


NOTE:
1. SEE FOUNDATION PLAN FOR WHERE REQUIRED OR AS REQUIRED DUE TO FIELD CONDTIONS.
2. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING REQUIREMENTS.

7 S1.03 TYPICAL STEPPED FOOTING
NTS

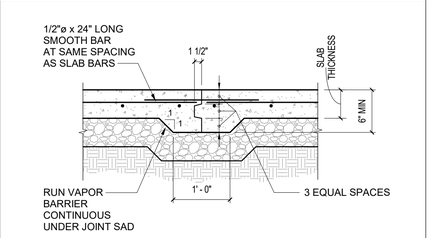


16 S1.03 DEPRESSED SLAB ON GRADE
NTS



NOTES:
1. CONTINUOUS SAWCUT CONTROL JOINT. CUT SLAB IMMEDIATELY AFTER INITIAL CONCRETE SET AND PLACE BEFORE FINAL CURING ALTERNATIVELY FORM JOINT WITH PREMOLDED STRIP IN FRESH CONCRETE.
2. FILL GROOVE WITH JOINT FILLER SEALANT.
3. WHERE POSSIBLE, APPLY FILLER WHILE BLDG IS UNDER PERMANENT TEMPERATURE CONTROL.
4. PLACE AT 30D OC MAX (15' FOR 6" SLAB) OR AS SHOWN ON FOUNDATION PLAN.
5. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS.

12 S1.03 CONTROL JOINT (C) CONCRETE SLAB ON GRADE
NTS



NOTE:
PROVIDE CONSTRUCTION JOINTS (CJ) AT LOCATIONS SHOWN ON PLANS OR AT LOCATIONS SHOWN ON PLANS OR PRIOR APPROVAL). WHEN USING KEYED COLD JOINTS, POUR SLABS IN CHECKERBOARD PATTERN METAL KEY JOINTS MAY BE USED AT CONTRACTOR'S OPTION.

8 S1.03 CONSTRUCTION JOINT (CJ) CONCRETE SLAB ON GRADE
NTS

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Drawn by: AI, AP, JML, KF
Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
TYPICAL CONCRETE DETAILS

Drawing No.
S1.03

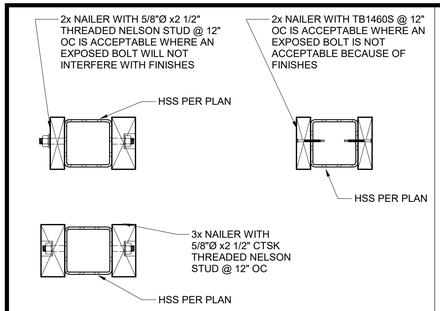
Sheet No.

MOSSWOOD COMMUNITY CENTER

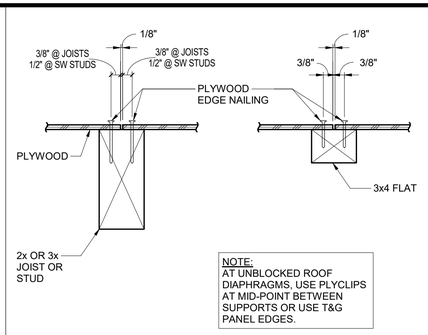
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:08:47 AM

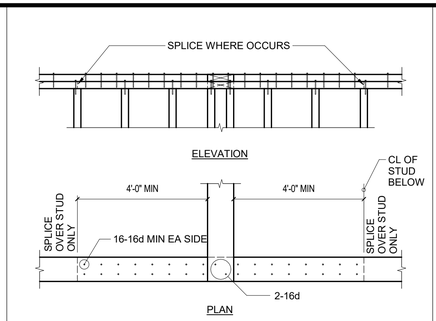
DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt



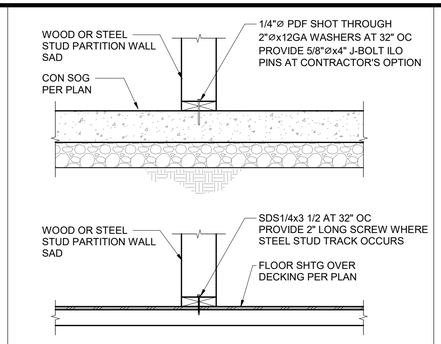
17 S1.04 **TYP NAILER TO HSS ATTACHMENT**
NTS



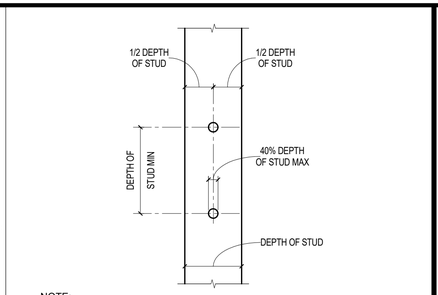
13 S1.04 **TYP PW PANEL EDGE DETAIL**
NTS



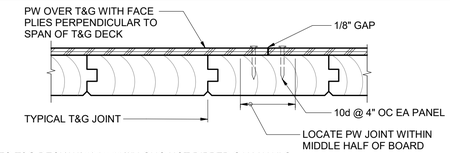
10 S1.04 **TYPICAL TOP PLATE SPLICE**
NTS



5 S1.04 **PARTITION WALL BASE DETAIL**
1" = 1'-0"

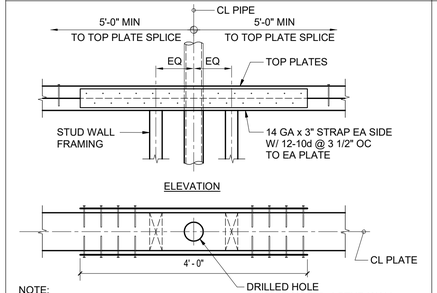


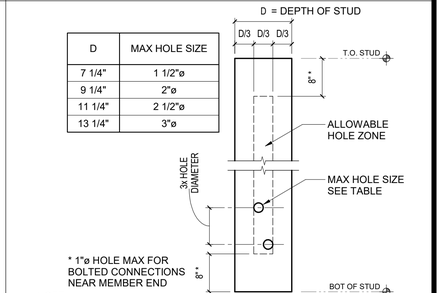
1 S1.04 **HOLES IN STUDS**
NTS



NOTES:
1. NAIL PW TO T&G DECK W/ 10d x 11/8" LONG HOT DIPPED GALV NAILS.
2. PW EDGE TO T&G DECK NAIL SPACING @ 4" OC; INTERMEDIATE NAIL SPACING @ 12" OC EACH WAY.
3. PW JOINT SHALL NOT CENTER OVER T&G DECK JOINT; SEE DETAIL.
4. 2" T&G DECK NAILING: 2-16d PER BOARD AT EACH SUPPORT PERPENDICULAR TO T&G DECK SPAN & 16d @ 6" OC AT SUPPORTS PARALLEL WITH T&G DECK SPAN.
   *****OR*****
   3" T&G DECK NAILING: 2-40d PREDRILLED PER BOARD AT EACH SUPPORT PERPENDICULAR TO T&G DECK SPAN & 40d PREDRILLED @ 6" OC AT SUPPORTS
5. PARALLEL WITH T&G DECK SPAN. ALL T&G DECK END JOINTS SHALL BE LOCATED OVER A SUPPORT & CONTINUOUS OVER INTERMEDIATE SUPPORTS. WHERE POSSIBLE, STAGGER END JOINTS OF ADJACENT BOARDS AT INTERMEDIATE SUPPORTS. AT ROOF EDGE CONDITIONS & INTERMEDIATE PARTITIONS: WHERE WALL SUPPORTS ARE PARALLEL TO T&G DECK SPAN, ALIGN FULL WIDTH T&G DECK OVER TOP PLATE, AND CONNECT WITH 16d @ 6" OC FOR 2" DECK AND 40d @ 6" OC FOR 3" T&G DECK. AT ROOF EDGE CONDITIONS, APPLY TYPICAL PW EDGE NAILING. AT INTERMEDIATE PARTITION CONDITIONS, PROVIDE 2 ROWS OF PW EDGE NAILING DIRECTLY OVER INTERMEDIATE PARTITIONS.

18 S1.04 **PLYWOOD OVER T&G DECKING NAILING DETAILS**
NTS

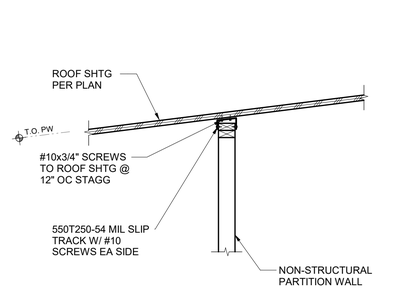




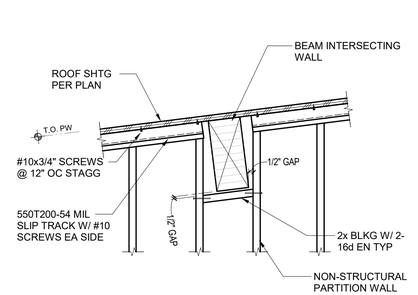
6 S1.04 **PIPE PENETRATION AT STUD WALL TOP PLATES**
NTS

D	MAX HOLE SIZE
7 1/4"	1 1/2"ø
9 1/4"	2"ø
11 1/4"	2 1/2"ø
13 1/4"	3"ø

2 S1.04 **HOLES IN TIMBERSTRAND STUDS**
NTS

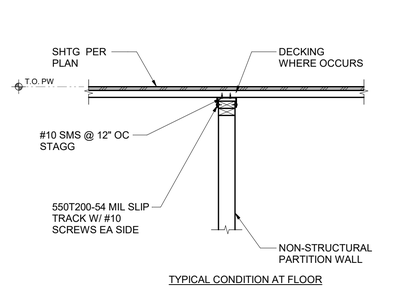


TYPICAL CONDITION AT ROOF

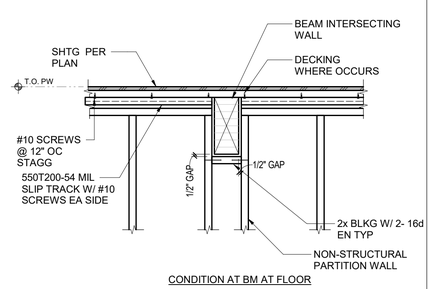


CONDITION AT BM AT ROOF

P1

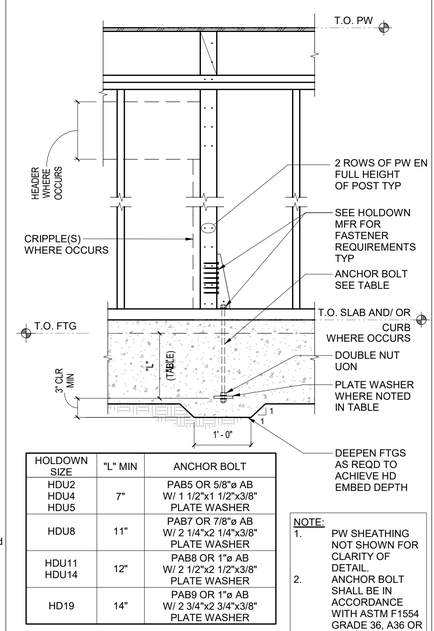


TYPICAL CONDITION AT FLOOR



CONDITION AT BM AT FLOOR

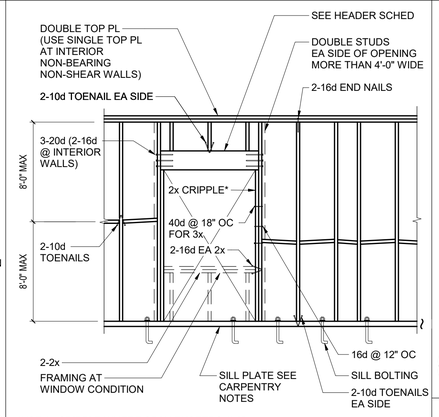
20 S1.04 **TOP OF PARTITION WALL**
NTS



HOLDOWN SIZE	"L" MIN	ANCHOR BOLT
HDU2 HDU4 HDU5	7"	PAB5 OR 5/8"ø AB W/ 1 1/2"x1 1/2"x3/8" PLATE WASHER
HDU8	11"	PAB7 OR 7/8"ø AB W/ 2 1/4"x2 1/4"x3/8" PLATE WASHER
HDU11 HDU14	12"	PAB8 OR 1"ø AB W/ 2 1/2"x2 1/2"x3/8" PLATE WASHER
HDU19	14"	PAB9 OR 1"ø AB W/ 2 3/4"x2 3/4"x3/8" PLATE WASHER

NOTE:
1. PW SHEATHING NOT SHOWN FOR CLARITY OF DETAIL.
2. ANCHOR BOLT SHALL BE IN ACCORDANCE WITH ASTM F1554 GRADE 36, A36 OR A307.

12 S1.04 **TYPICAL HOLDOWN DETAIL**
NTS



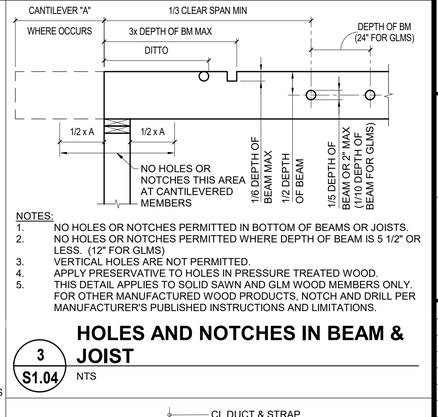
*USE 3x CRIPPLE WHERE SPAN EXCEEDS 6'-0"

HEADER SCHEDULE				
SPAN	3'-0" MAX	4'-0" MAX	6'-0" MAX	OVER 6'-0"
2x4 STUDS	2-2x4 OR 4x4	2-2x6 OR 4x6	4x8	SEE SPECIFIC DETAILS ON DRAWINGS
2x6 STUDS	3-2x6 OR 4x6 FLAT	3-2x6 OR 6x6	3-2x8 OR 6x8	

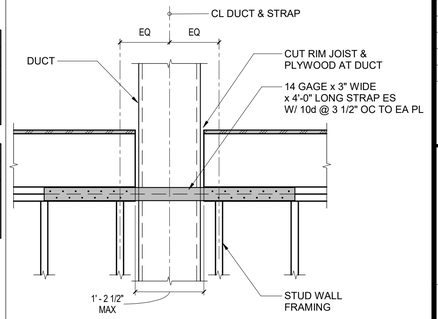
HEADER SCHEDULE INTERIOR NON-BEARING WALLS**				
SPAN	3'-0" MAX	4'-0" MAX	6'-0" MAX	OVER 6'-0"
2x4 STUDS	2x4 FLAT	2-2x4 FLAT	4x6	SEE SPECIFIC DETAILS ON DRAWINGS
2x6 STUDS	2x6 FLAT	2-2x6 FLAT	4x6 FLAT	

** NOTE:
1. IF MORE THAN 5'-0" OF SOLID WALL OCCURS OVER OPENING, USE BEARING WALL SCHEDULE.
2. OMIT CRIPPLE STUDS AT INTERIOR NON BEARING WALL.

8 S1.04 **TYPICAL FRAMING AT WINDOW / DOOR OPENING**
NTS



3 S1.04 **HOLES AND NOTCHES IN BEAM & JOIST**
NTS



4 S1.04 **DUCT PENETRATION AT STUD WALL TOP PLATES**
NTS

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Drawn by: AI, AP, JML, KF
Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER JASON M. TEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
TYPICAL WOOD DETAILS

Drawing No.
S1.04

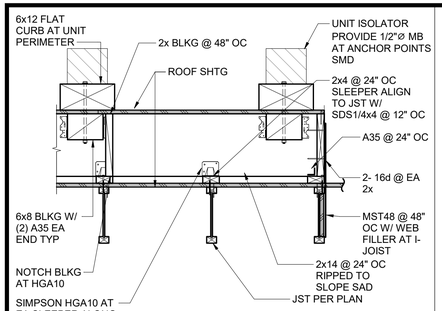
Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSA PROJECT NUMBER: 1902

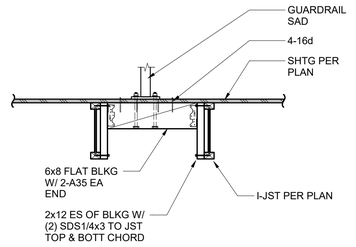
PLOT DATE: 7/14/2022 10:08:49 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt



17 S1.05 **MECHANICAL PLATFORM**

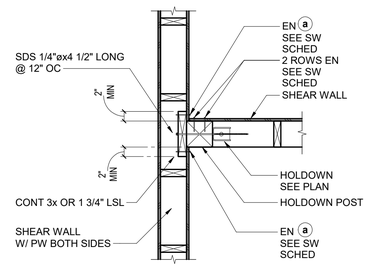
3/4" = 1'-0"



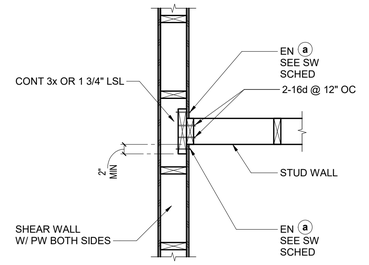
P1

13 S1.05 **BLOCKING AT GUARDRAIL SUPPORT**

3/4" = 1'-0"



PLAN



PLAN

10 S1.05 **SHEAR WALL FRAMING AT INTERSECTING WALLS**

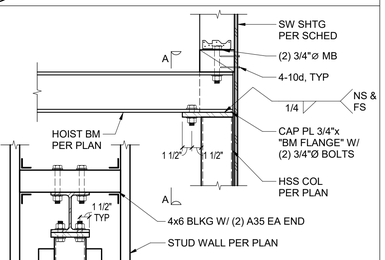
NTS

MARK	1/2" SHEATHING	CONNECTIONS NOTED ON DETAILS						MAX ALLOWABLE SHEAR CAPACITY (plf)	REMARKS
		(a) NAILING		(b) 2x SOLE PLATE CONNECTION	(c) TOP PLATE CONNECTION	(d) JOIST OR BLKG	(e) 3x PTDF SILL PL W/ ANCHOR BOLT SIZE & SPACING		
		EDGES	FIELD						
A	1 SIDE	10d @ 6" OC	10d @ 12" OC	16d @ 6" OC STAGGERED	LTP5 @ 16" OC	4x	5/8"ø @ 48" OC	310	
	2 SIDES	10d @ 6" OC	10d @ 12" OC	20d @ 3" OC STAGGERED	LTP5 @ 12" OC	4x	5/8"ø @ 32" OC	620	
B	1 SIDE	10d @ 4" OC	10d @ 12" OC	16d @ 4" OC STAGGERED	LTP5 @ 12" OC	4x	5/8"ø @ 32" OC	460	USE 3x STUDS @ SHEATHING PANEL JTS
	2 SIDES	10d @ 4" OC	10d @ 12" OC	1/4"ø x 6" SDS SCREWS @ 4" OC	LTP5 @ 8" OC	4x	5/8"ø @ 16" OC	920	USE 3x STUDS @ SHEATHING PANEL JTS
C	1 SIDE	10d @ 3" OC	10d @ 12" OC	16d @ 3" OC STAGGERED	LTP5 @ 10" OC	4x	5/8"ø @ 16" OC	600	USE 3x STUDS @ SHEATHING PANEL JTS
	2 SIDES	10d @ 3" OC	10d @ 12" OC	1/4"ø x 6" SDS SCREWS @ 4" OC	LTP5 @ 6" OC VERTICALY	4x	5/8"ø @ 8" OC	1200	USE 3x STUDS @ SHEATHING PANEL JTS
D	1 SIDE	10d @ 2" OC	10d @ 12" OC	16d @ 3" OC STAGGERED	LTP5 @ 8" OC	4x	5/8"ø @ 16" OC	770	USE 3x STUDS @ SHEATHING PANEL JTS
	2 SIDES	10d @ 2" OC	10d @ 12" OC	1/4"ø x 6" SDS SCREWS @ 4" OC	LTP5 @ 5" OC VERTICALY	4x	5/8"ø @ 8" OC	1540	USE 3x STUDS @ SHEATHING PANEL JTS

NOTES:
1. DO NOT LOCATE SHEATHING JOINTS ON THE SAME STUD WHERE SHEATHING OCCURS ON BOTH SIDES.
2. PROVIDE 2 ROWS OF SHEATHING EDGE NAILING (EN) FULL HEIGHT OF ALL POSTS WITH HOLDOWNS.
3. SHEATHING AT SHEAR WALLS SHALL EXTEND FULL LENGTH AND HEIGHT OF WALL.
4. USE 3X SILL PLATES AT ALL SHEAR WALLS.
5. ANCHOR BOLTS SHALL HAVE 7" MINIMUM EMBEDMENT. EMBEDDED END SHALL HAVE 6 DIAMETER BEND WITH 2 DIAMETER EXTENSION PAST CENTER OF BEND.
6. SOLE PLATE NAILING SHALL BE STAGGERED.
7. ANCHOR BOLTS (e) SHALL HAVE CUT WASHER OVER SIMPSON BPS 5/8-6 BEARING PLATE. AT 6" SILL PLATE, ORIENT LONG DIMENSION OF BEARING PLATE PERPENDICULAR TO WALL.
8. PROVIDE KILN DRIED LUMBER AT (d) JOIST/ BLOCKING.
9. SUBSTITUTE A35 FOR LTP5 WHERE FRAMING ALLOWS. SEE SPECIFIC DETAILS.
10. NAILS PENETRATING PRESSURE-PRESERVATIVE TREATED OR FIRE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D AND SDS SCREWS SHALL BE STAINLESS STEEL OR HAVE DOUBLE BARRIER COATING.
11. ANCHOR BOLTS SHALL BE LOCATED A MINIMUM OF 13/4" FROM EDGE OF THE CONCRETE PERPENDICULAR TO THE LENGTH OF THE WOOD SILL PLATE.
12. ANCHOR BOLTS SHALL BE LOCATED A MINIMUM OF 91/2" FROM EDGE OF THE CONCRETE PARALLEL TO THE LENGTH OF THE WOOD SILL PLATE.

6 S1.05 **WOOD SHEAR WALL SCHEDULE**

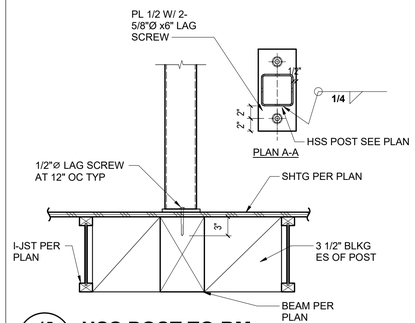
NTS



A-A

14 S1.05 **HOIST BEAM DETAIL**

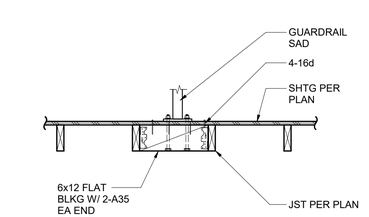
1" = 1'-0"



P1

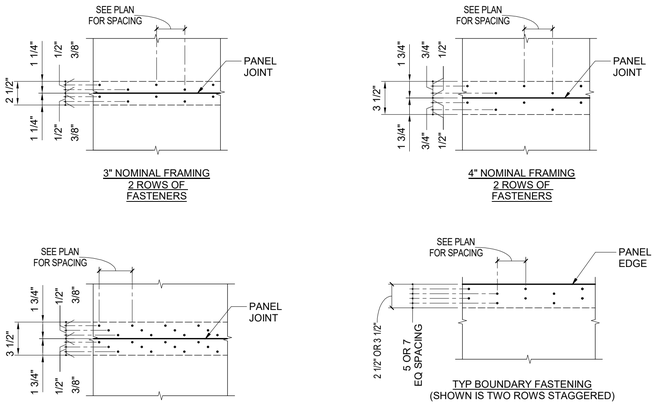
15 S1.05 **HSS POST TO BM**

1" = 1'-0"



11 S1.05 **BLOCKING AT GUARDRAIL SUPPORT**

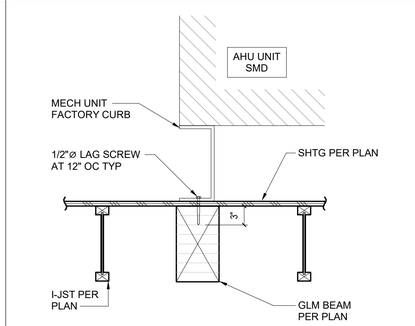
3/4" = 1'-0"



NOTES:
1. SPACE PANEL JOINTS WITH 1/8" GAP.
2. REDUCE SPACING BETWEEN ROWS OF FASTENERS AS NECESSARY TO MAINTAIN 3/8" MINIMUM EDGE DISTANCE.
3. MAINTAIN MINIMUM 3/8" BETWEEN ROWS OF FASTENERS.
4. PREDRILL LEAD HOLES FOR WOOD SCREWS.
5. SEE PLANS FOR WOOD SCREW SIZE, SPACE, AND PENETRATION LENGTH.

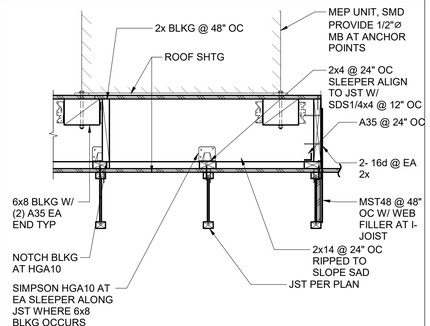
8 S1.05 **TYP PLYWOOD JOINT W/ WOOD SCREW FASTENER LAYOUT DETAILS**

NTS



16 S1.05 **MECHANICAL UNIT SUPPORT**

1" = 1'-0"



12 S1.05 **MECHANICAL PLATFORM**

NTS

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Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER JASON M. TEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
TYPICAL WOOD DETAILS

Drawing No.
S1.05

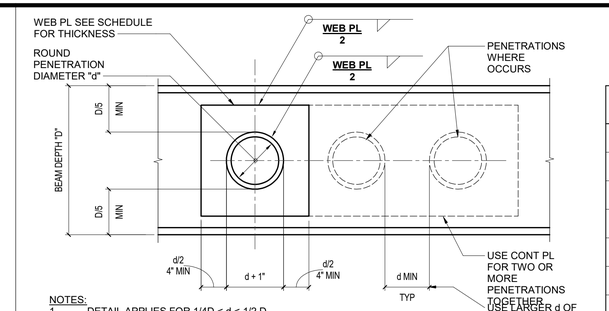
Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:08:50 AM

DRAWING NAME: BIM 360://Mosswood/IDA18115_Mosswood_Struct_R21.rvt



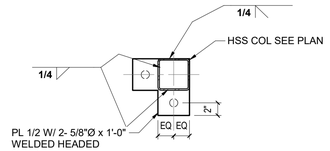
NOTES:
1. DETAIL APPLIES FOR 1/4D < d < 1/2 D.
2. NO WEB PL REQUIRED WHEN d < 1/4 D.
3. SEE PLANS FOR OPENING SIZE & LOCATION.

WEB PLATE SCHEDULE	
BEAM SIZE	PL THICKNESS
W21 & SMALLER	3/8"
W24 TO W30	1/2"
W33 x 118 TO W33 x 169	5/8"
W33 x 201 TO W33 x 241	3/4"
W36	3/4"
PLATE GRADE TO MATCH BEAM STEEL GRADE	

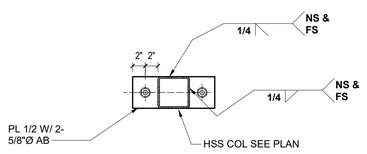
5 S1.06 **ROUND PENETRATION IN BEAM WEB DETAIL**
3/4" = 1'-0"

BEAM DEPTH	A325SC HS BOLTS	WEB PLATE THICKNESS	WEB PLATE WELD
W8, W10, C10	2-3/4"ø	1/4"	3/16"
W12, W14, C12	3-1"ø	1/4"	3/16"
W16, W18	4-1"ø	3/8"	5/16"
W21	5-1"ø	3/8"	5/16"
W24	6-1"ø	1/2"	3/8"
W27	7-1"ø	1/2"	3/8"
W30	8-1"ø	1/2"	3/8"
W36	8-1"ø	1/2"	3/8"

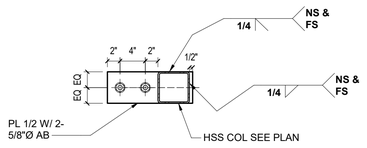
2 S1.06 **TYP BEAM CONNECTION SCHED**
NTS



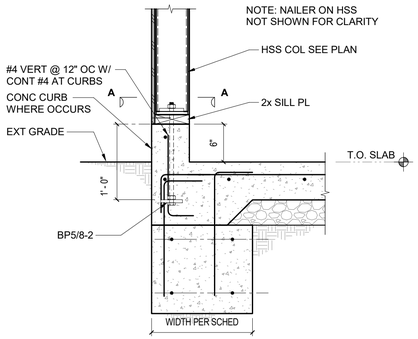
PLAN A-A AT CORNER BASEPLATE



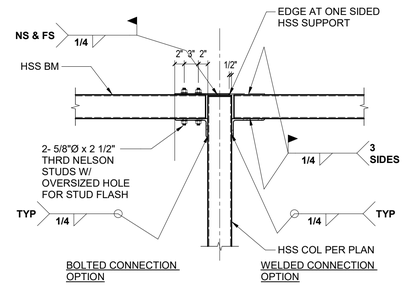
PLAN A-A AT CENTERED BASEPLATE

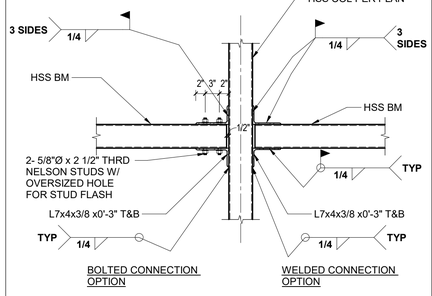


PLAN A-A AT OFFSET BASEPLATE

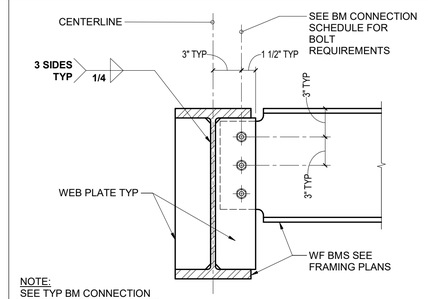


12 S1.06 **HSS COL BASE PLATE AT CURBS**
1" = 1'-0"



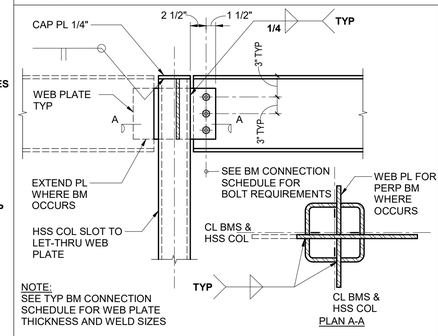


8 S1.06 **TUBE-TO-TUBE COL CONN DETAIL**
3/4" = 1'-0"



NOTE:
SEE TYP BM CONNECTION SCHEDULE FOR WEB PLATE THICKNESS AND WELD SIZES

3 S1.06 **BM-TO-BM CONN DETAIL**
NTS



NOTE:
SEE TYP BM CONNECTION SCHEDULE FOR WEB PLATE THICKNESS AND WELD SIZES

4 S1.06 **BM-TO-TUBE COL CONN DETAIL**
NTS

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Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER JASON M. TEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

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	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
TYPICAL STEEL DETAILS

Drawing No.
S1.06

Sheet No.

MOSSWOOD COMMUNITY CENTER

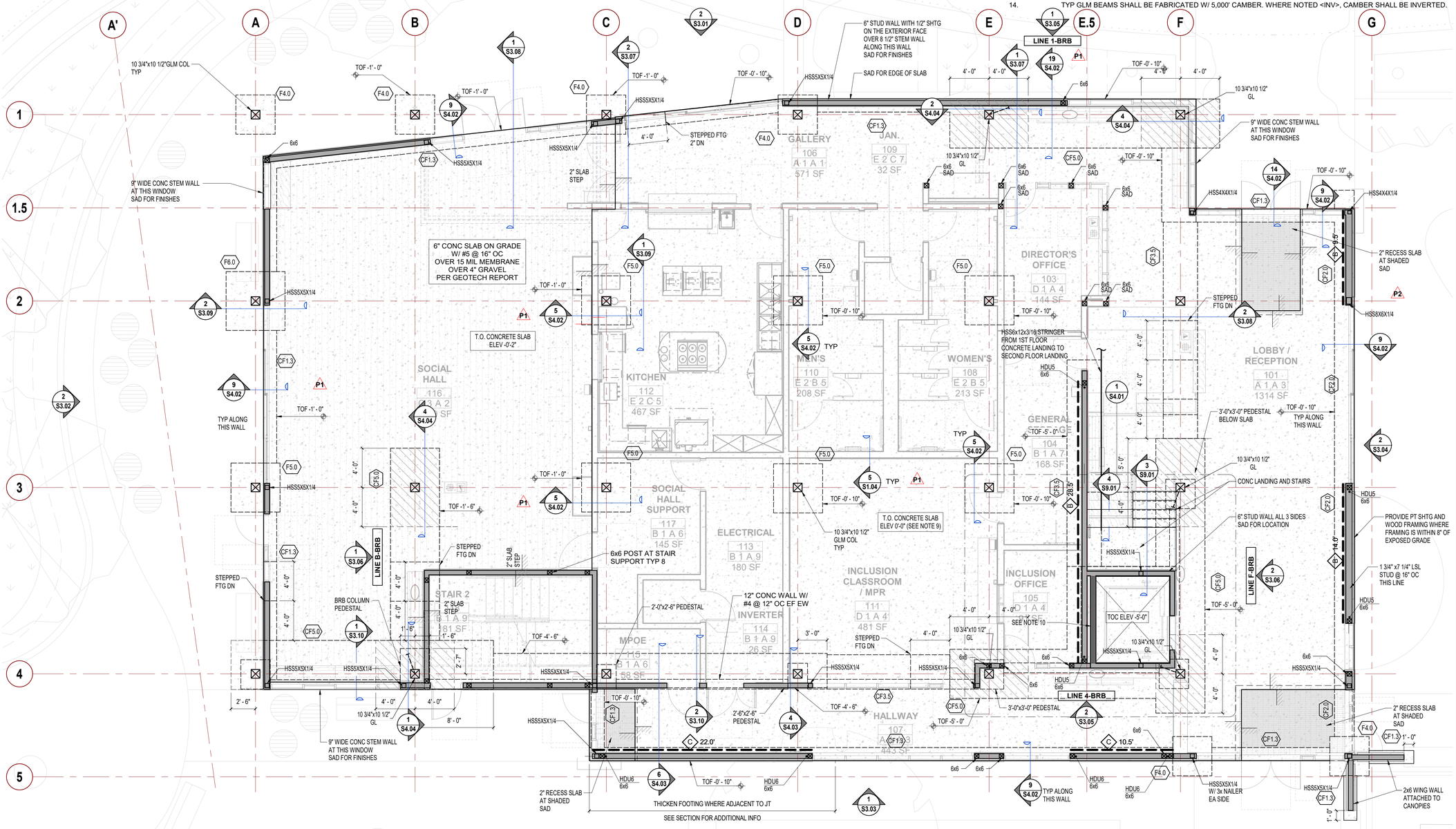
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:08:51 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt

SHEET NOTES:

1. EXTERIOR NON LOAD BEARING STUDS HT < 14' ARE 2x6 @ 16" OC UNLESS OTHERWISE NOTED.
2. EXTERIOR NON LOAD BEARING STUDS 14' < HT < 25' ARE 1 3/4"x 5 1/2" LSL @ 16" OC UNLESS OTHERWISE NOTED.
3. SW — DENOTES WOOD SHEAR WALL WITH 1/2" SHEATHING.
4. SEE ARCHITECTURAL SLAB PLAN FOR SAWCUT JOINTS.
5. SEE FOUNDATION SCHEDULE ON SHEET S4.1.
6. DENOTES FOOTING CONFINED ZONE. TRANSVERSE TIES TO BE INSTALLED PER 12/S4.1 WITHIN THIS REGION.
7. SX — DENOTES COLLECTOR STRAP. S1 = CMSTC16 x5'-0", S2 = CMST12x8'-0"
8. COLLECTORS AT SLRS (SEISMIC LOAD RESISTING SYSTEM) LINES SHALL RECEIVE PLYWOOD EDGE NAILING.
9. PROJECT ELEVATION 0'-0" CORRESPONDS TO 67.42' SITE ELEVATION SEE CIVIL AND LANDSCAPE DRAWINGS.
10. METAL STUD SHAFT WALL CONSTRUCTION AT LOCATION NOTED PER ARCHITECTURAL DRAWINGS.
11. PLACE EXPOSED ROOF PLYWOOD "A" FACE DOWN.
12. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND WORK POINT DEFINITIONS.
13. SAD FOR CONTROL JOINT LAYOUT.
14. TYP GLM BEAMS SHALL BE FABRICATED W/ 5,000' CAMBER. WHERE NOTED <INV>, CAMBER SHALL BE INVERTED.



1 S2.01 FOUNDATION AND FRIST FLOOR FRAMING PLANS

3/16" = 1'-0"

0 2' 4' 8' 12'

N

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Designed by: JML, KF
Checked by: JML, KF

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	07/15/2022	100% CD / BID

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3612 WEBSTER ST., OAKLAND CA 94609
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Drawing Title
FOUNDATION PLAN

Drawing No.
S2.01

Sheet No.

MOSSWOOD COMMUNITY CENTER

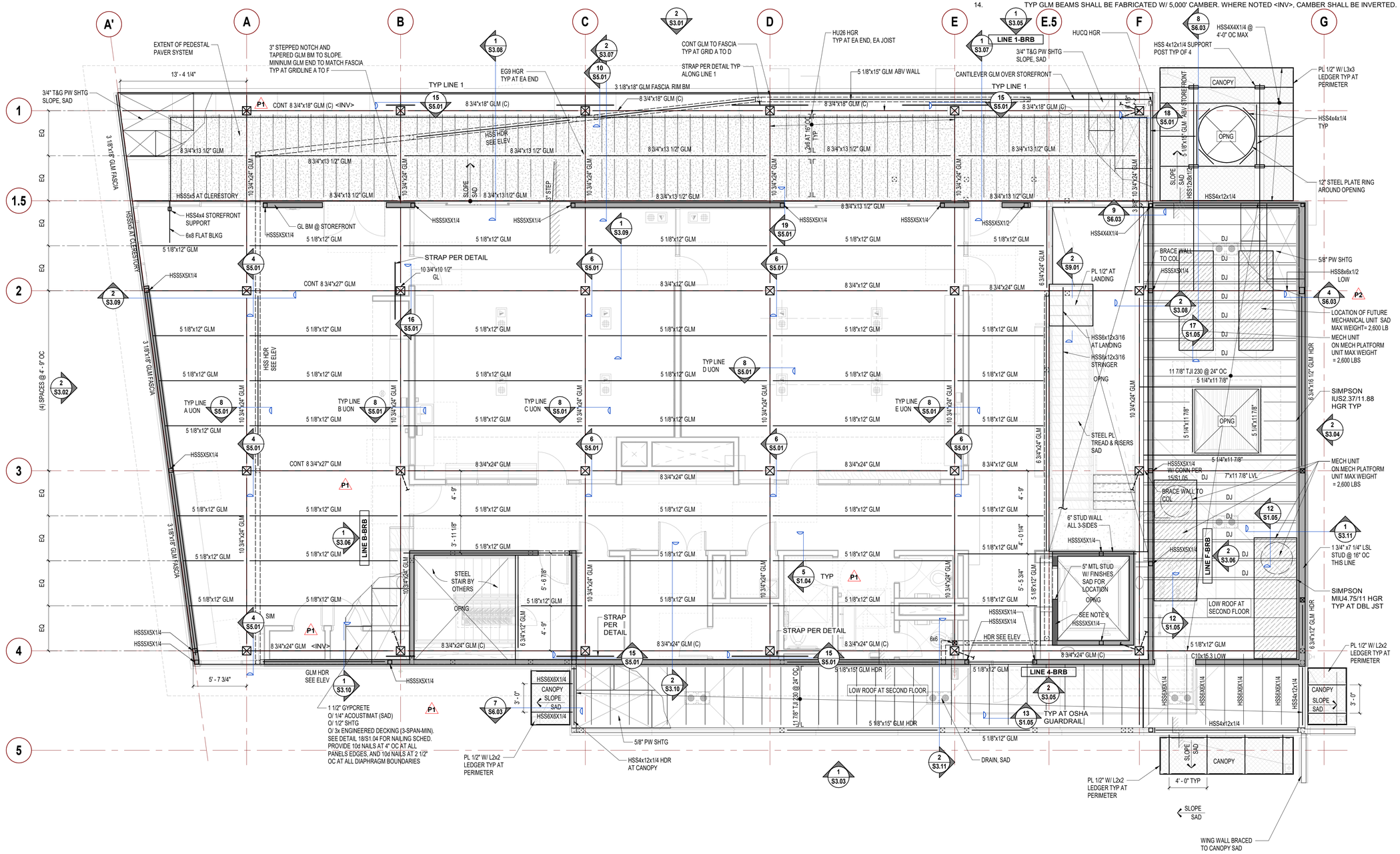
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:08:52 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt

SHEET NOTES:

1. EXTERIOR NON LOAD BEARING STUDS HT < 14' ARE 2x6 @ 16" OC UNLESS OTHERWISE NOTED.
2. EXTERIOR NON LOAD BEARING STUDS 14' < HT < 25' ARE 1 3/4"x 5 1/2" LSL @ 16" OC UNLESS OTHERWISE NOTED.
3. SW — DENOTES WOOD SHEAR WALL WITH 1/2" SHEATHING.
4. SEE ARCHITECTURAL SLAB PLAN FOR SAWCUT JOINTS.
5. SEE FOUNDATION SCHEDULE ON SHEET S4.1.
6. DENOTES FOOTING CONFINED ZONE. TRANSVERSE TIES TO BE INSTALLED PER 12/S4.1 WITHIN THIS REGION.
7. SX — DENOTES COLLECTOR STRAP. S1 = CMSTC16 x5'-0", S2 = CMST12x8'-0"
8. COLLECTORS AT SLRS (SEISMIC LOAD RESISTING SYSTEM) LINES SHALL RECEIVE PLYWOOD EDGE NAILING.
9. PROJECT ELEVATION 0'-0" CORRESPONDS TO 67.42' SITE ELEVATION SEE CIVIL AND LANDSCAPE DRAWINGS.
10. METAL STUD SHAFT WALL CONSTRUCTION AT LOCATION NOTED PER ARCHITECTURAL DRAWINGS.
11. PLACE EXPOSED ROOF PLYWOOD "A" FACE DOWN.
12. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND WORK POINT DEFINITIONS.
13. SAD FOR CONTROL JOINT LAYOUT.
14. TYP GLM BEAMS SHALL BE FABRICATED W/ 5,000' CAMBER. WHERE NOTED <INV>, CAMBER SHALL BE INVERTED.



1 S2.02 SECOND FLOOR FRAMING PLAN

3/16" = 1'-0"

0 2' 4' 8' 12'

N

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No.	DATE	ISSUE DESCRIPTION
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P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
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Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
SECOND FLOOR AND LOW ROOF FRAMING PLAN

Drawing No.
S2.02

Sheet No.

MOSSWOOD COMMUNITY CENTER

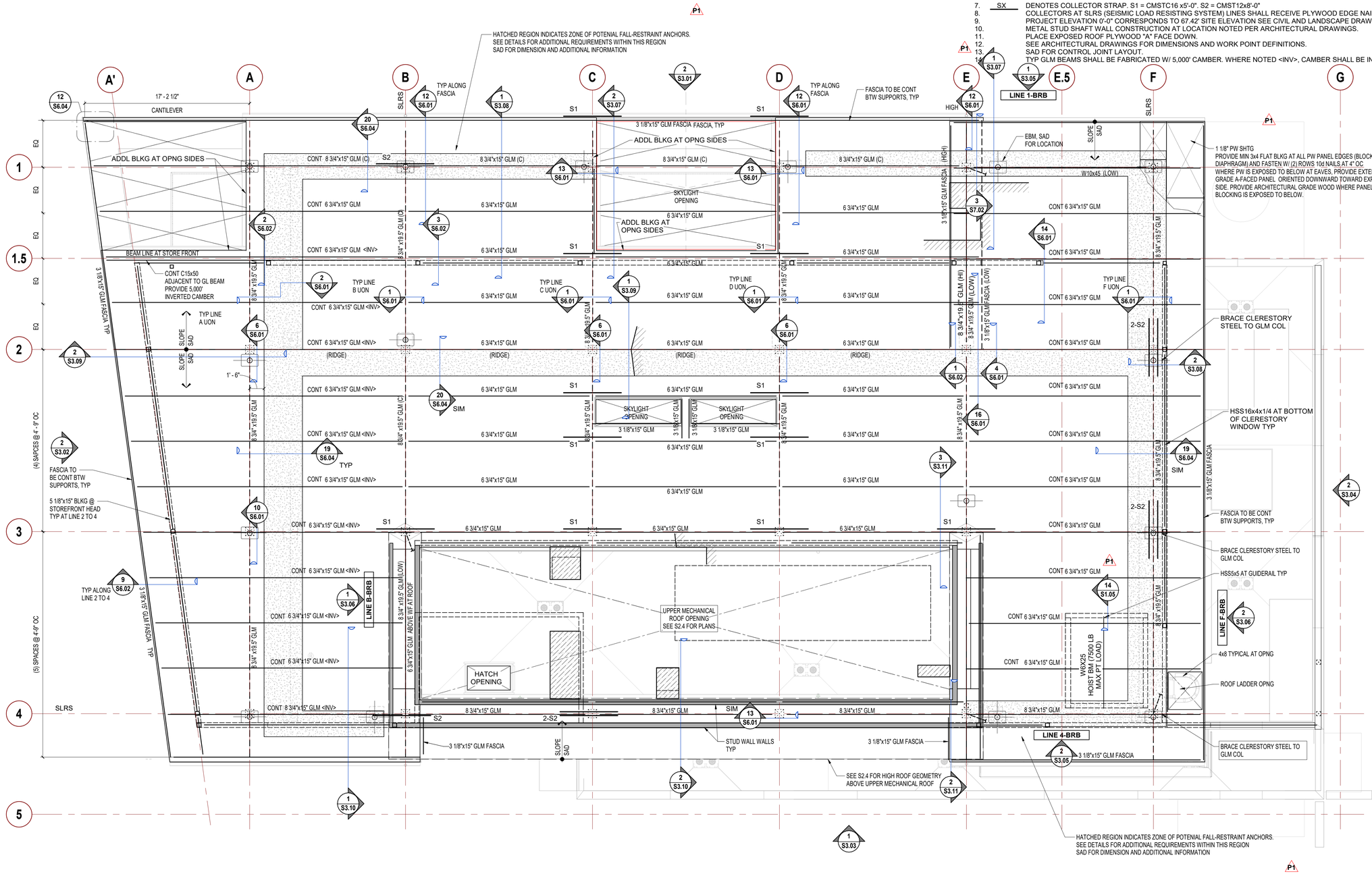
LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:08:50 AM

DRAWING NAME: BIM 360:...\Mosswood\DA18113_Mosswood_Struct_P21.rvt

SHEET NOTES:

1. EXTERIOR NON LOAD BEARING STUDS HT < 14' ARE 2x6 @ 16" OC UNLESS OTHERWISE NOTED.
2. EXTERIOR NON LOAD BEARING STUDS 14' < HT < 25' ARE 1 3/4"x 5 1/2" LSL @ 16" OC UNLESS OTHERWISE NOTED.
3. DENOTES WOOD SHEAR WALL WITH 1/2" SHEATHING. (SW)
4. SEE ARCHITECTURAL SLAB PLAN FOR SAWCUT JOINTS.
5. SEE FOUNDATION SCHEDULE ON SHEET S4.1.
6. DENOTES FOOTING CONFINED ZONE. TRANSVERSE TIES TO BE INSTALLED PER 12/S4.1 WITHIN THIS REGION.
7. DENOTES COLLECTOR STRAP. S1 = CMSTC16 x5'-0". S2 = CMST12x8'-0" (SX)
8. COLLECTORS AT SLRS (SEISMIC LOAD RESISTING SYSTEM) LINES SHALL RECEIVE PLYWOOD EDGE NAILING.
9. PROJECT ELEVATION 0'-0" CORRESPONDS TO 67.42' SITE ELEVATION SEE CIVIL AND LANDSCAPE DRAWINGS.
10. METAL STUD SHAFT WALL CONSTRUCTION AT LOCATION NOTED PER ARCHITECTURAL DRAWINGS.
11. PLACE EXPOSED ROOF PLYWOOD "A" FACE DOWN.
12. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND WORK POINT DEFINITIONS.
13. SAD FOR CONTROL JOINT LAYOUT.
14. TYP GLM BEAMS SHALL BE FABRICATED W/ 5,000' CAMBER. WHERE NOTED <INV>, CAMBER SHALL BE INVERTED.



1 S2.03 ROOF FRAMING PLANS

3/16" = 1'-0"

0 2' 4' 8' 12'

N

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Designed by: JML, KF
Checked by: JML, KF

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Project Information
3612 WEBSTER ST., OAKLAND CA 94609
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Drawing Title
ROOF FRAMING PLAN

Drawing No.
S2.03

Sheet No.

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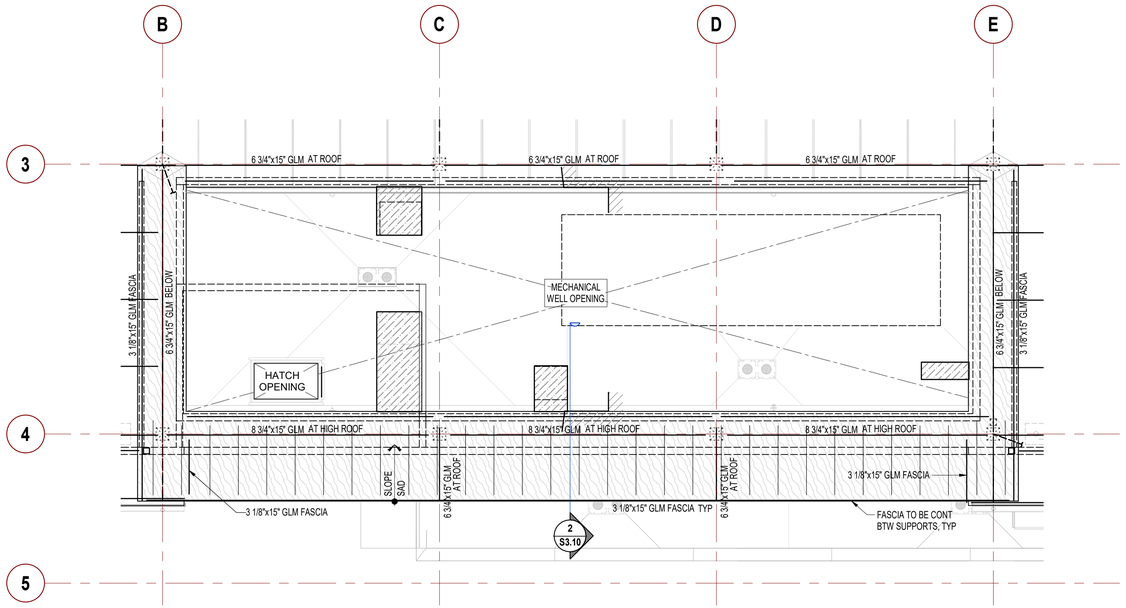
LM/IA PROJECT NUMBER: 1902

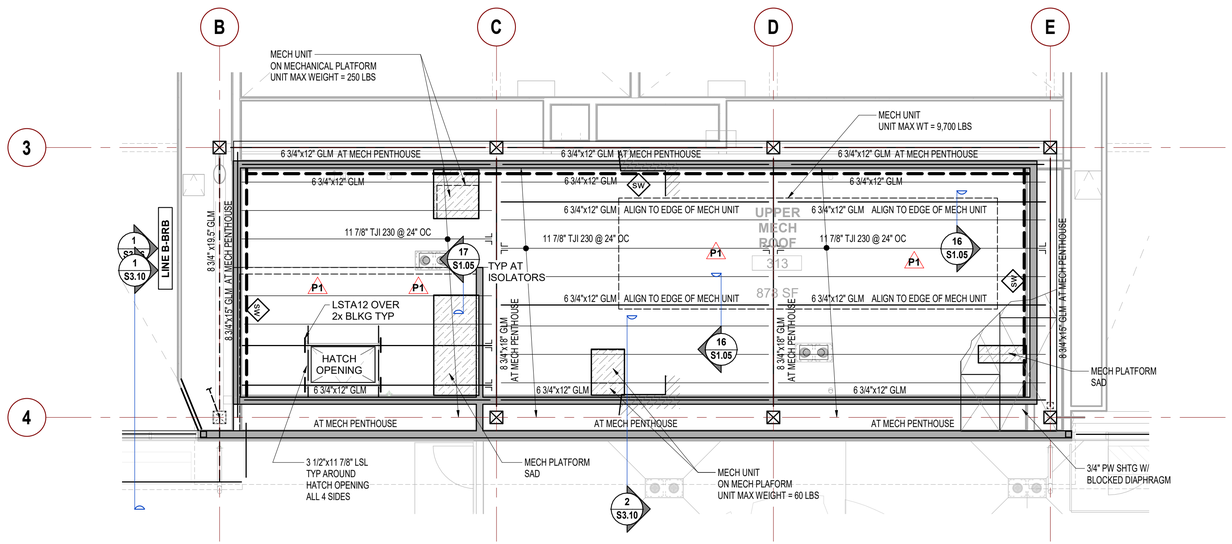
PLOT DATE: 7/14/2022 10:08:59 AM

DRAWING NAME: BIM 360://Mosswood/IDA1815_Mosswood_Struct_R21.rvt



2 S2.04 ROOF FRAMING PLAN AT UPPER MECHANICAL WELL

3/16" = 1'-0"



1 S2.04 UPPER MECHANICAL ROOF PLATFORM FRAMING PLAN

3/16" = 1'-0"

0 2' 4' 8' 12'

N

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Designed by: JML, KF
Checked by: JML, KF

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P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information

3612 WEBSTER ST., OAKLAND CA 94609
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Drawing Title

UPPER MECHANICAL FRAMING PLANS

Drawing No.

S2.04

Sheet No.

MOSSWOOD COMMUNITY CENTER

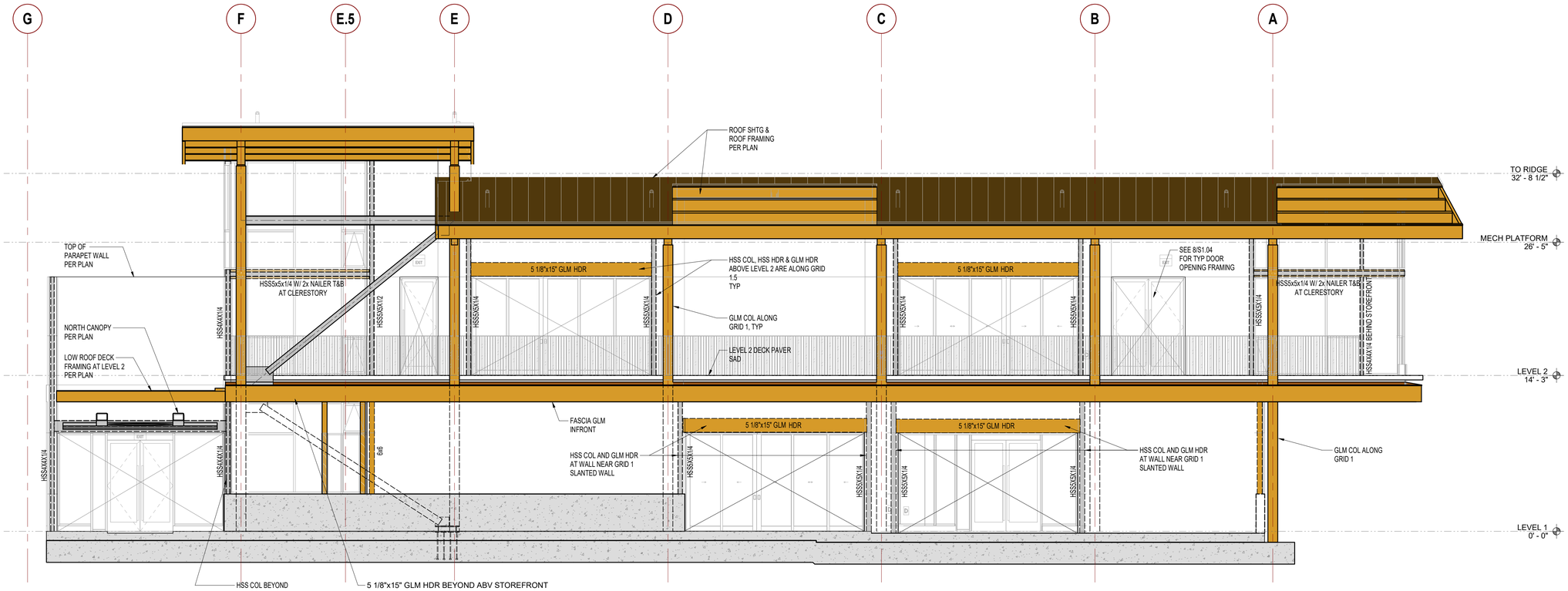
LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:09:00 AM

DRAWING NAME: BIM 360://Mosswood/IDA19113_Mosswood_Struct_P21.rvt

ELEVATION SHEET NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION NOT SHOWN HEREIN.
2. SEE S3.05 - S3.06 FOR BRACE FRAME ELEVATIONS.
3. TYPICAL STUD WALL FRAMING AND PLYWOOD SHEATHING ARE NOT SHOWN FOR CLARITY.



2 / S3.01 NORTH ELEVATION

3/16" = 1'-0"

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Drawn by: AI, AP, JML, KF
Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER
JASON M. LEE
No. S4980
STRUCTURAL
STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
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	07/15/2022	100% CD / BID

Project Information

3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
EXTERIOR ELEVATION

Drawing No.
S3.01

Sheet No.

MOSSWOOD COMMUNITY CENTER

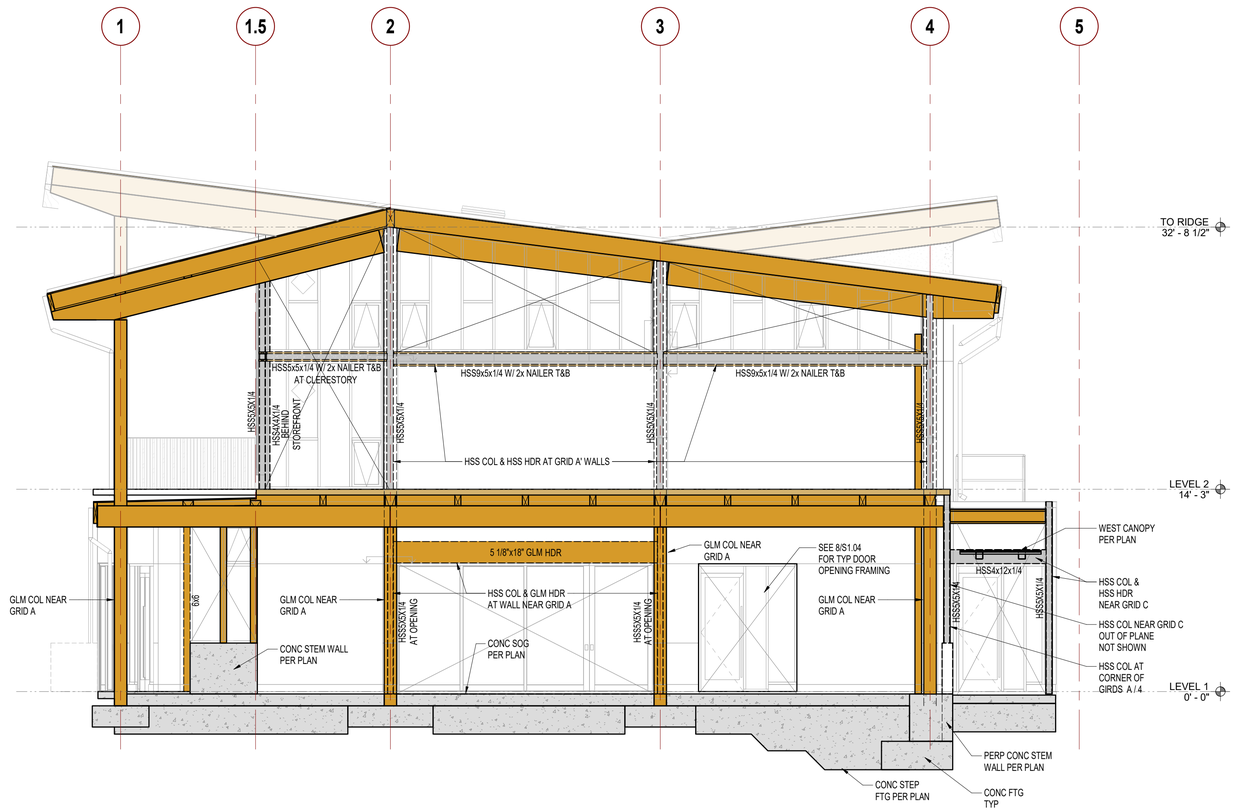
LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:09:03 AM

DRAWING NAME: BIM 360://Mosswood/IDA18113_Mosswood_Struct_P21.rvt

ELEVATION SHEET NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION NOT SHOWN HEREIN.
2. SEE S3.05 - S3.06 FOR BRACE FRAME ELEVATIONS.
3. TYPICAL STUD WALL FRAMING AND PLYWOOD SHEATHING ARE NOT SHOWN FOR CLARITY.



2 / S3.02 WEST ELEVATION

3/16" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

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No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
EXTERIOR ELEVATION

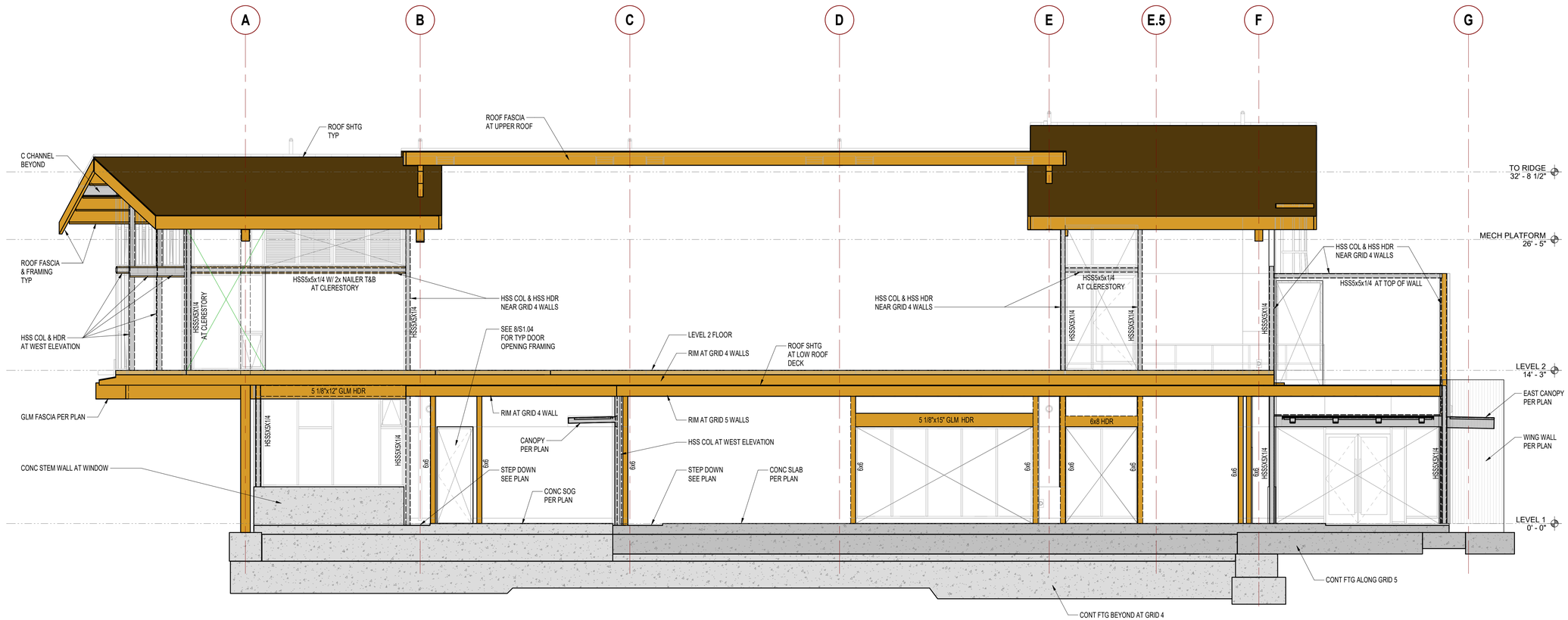
Drawing No.
S3.02

Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:09:05 AM
DRAWING NAME: BIM 360://Mosswood/IDA18115_Mosswood_Struct_R21.rvt

ELEVATION SHEET NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION NOT SHOWN HEREIN.
2. SEE S3.05 - S3.06 FOR BRACE FRAME ELEVATIONS.
3. TYPICAL STUD WALL FRAMING AND PLYWOOD SHEATHING ARE NOT SHOWN FOR CLARITY.



1 / S3.03 **SOUTH ELEVATION**

3/16" = 1'-0"

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	07/15/2022	100% CD / BID

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Drawing Title
EXTERIOR ELEVATION

Drawing No.
S3.03

Sheet No.

MOSSWOOD COMMUNITY CENTER

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PLOT DATE: 7/14/2022 10:09:09 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt

ELEVATION SHEET NOTES

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2. SEE S3.05 - S3.06 FOR BRACE FRAME ELEVATIONS.
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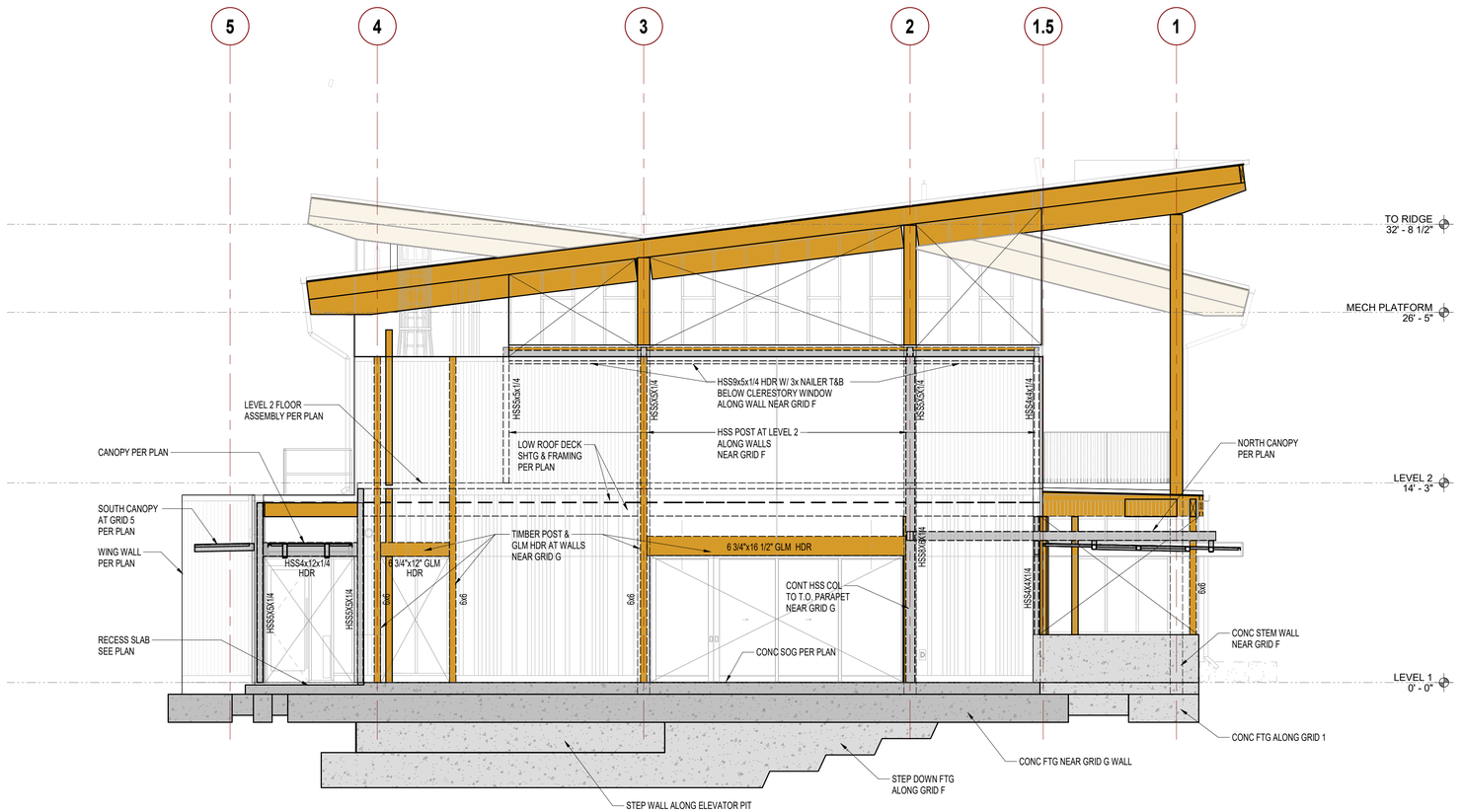

2 / S3.04 EAST ELEVATION

3/16" = 1'-0"

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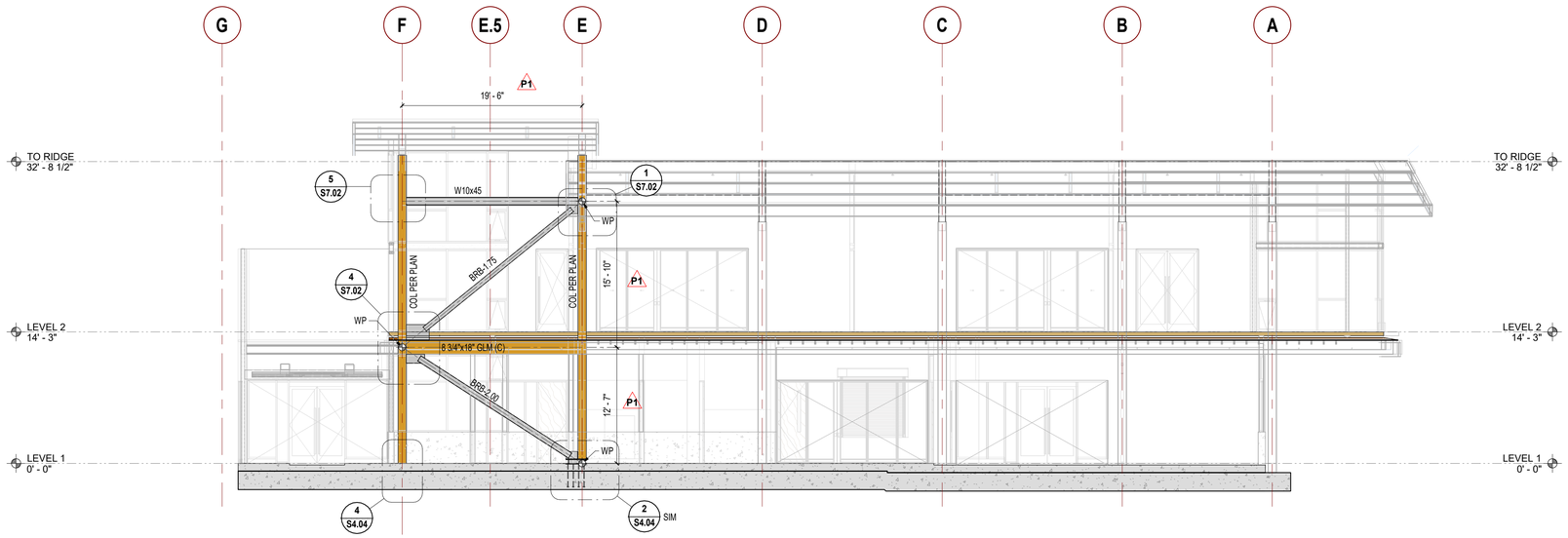
Drawing Title
EXTERIOR ELEVATION

Drawing No.
S3.04

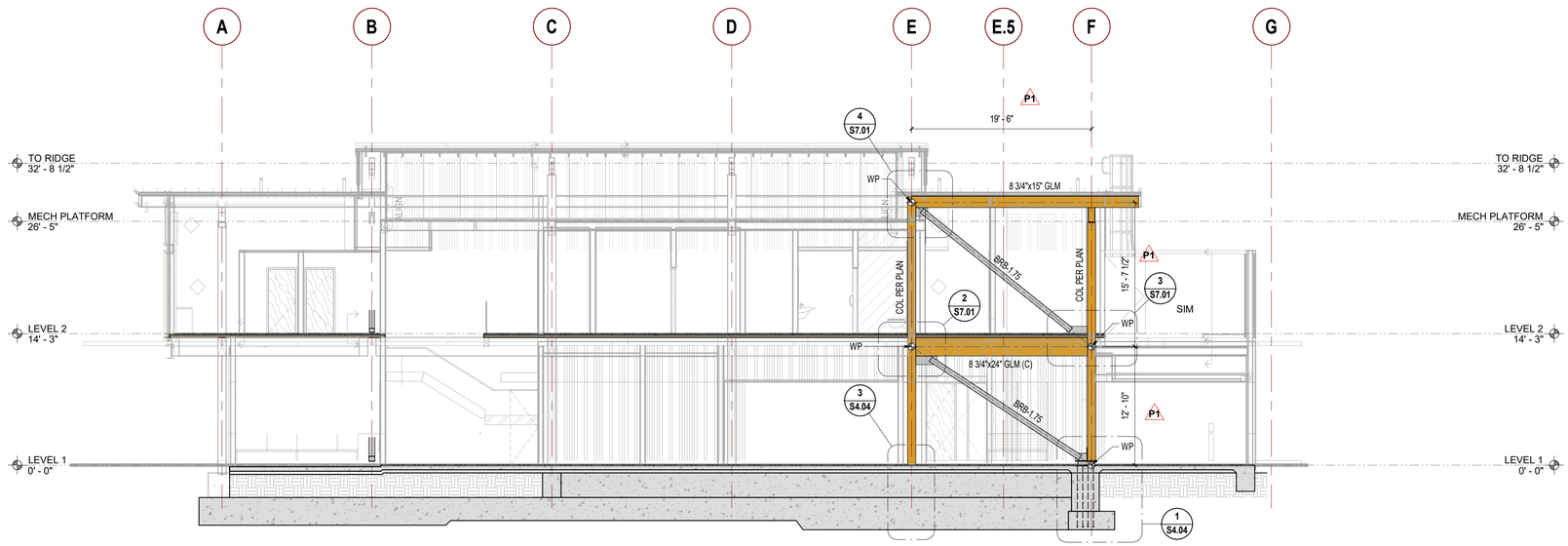
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:08:11 AM
DRAWING NAME: BIM 360://Mosswood/IDA18115_Mosswood_Struct_R21.rvt



1 S3.05 BRACED FRAME ELEVATION AT GRID LINE 1

1/8" = 1'-0"



2 S3.05 BRACED FRAME ELEVATION GRID LINE 4

1/8" = 1'-0"

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Checked by: JML, KF

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No.	DATE	ISSUE DESCRIPTION
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Drawing Title
BRACED FRAMED ELEVATIONS

Drawing No.
S3.05

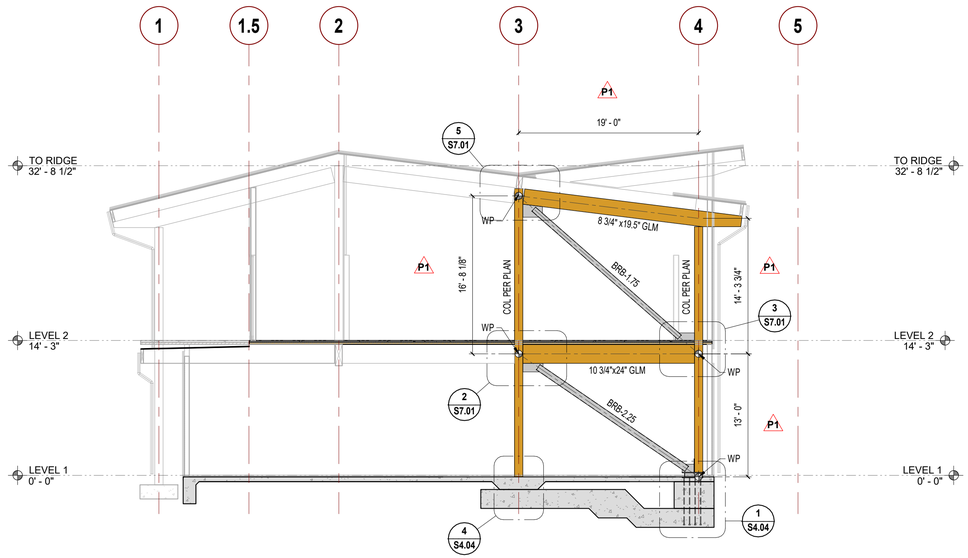
Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSa PROJECT NUMBER: 1902

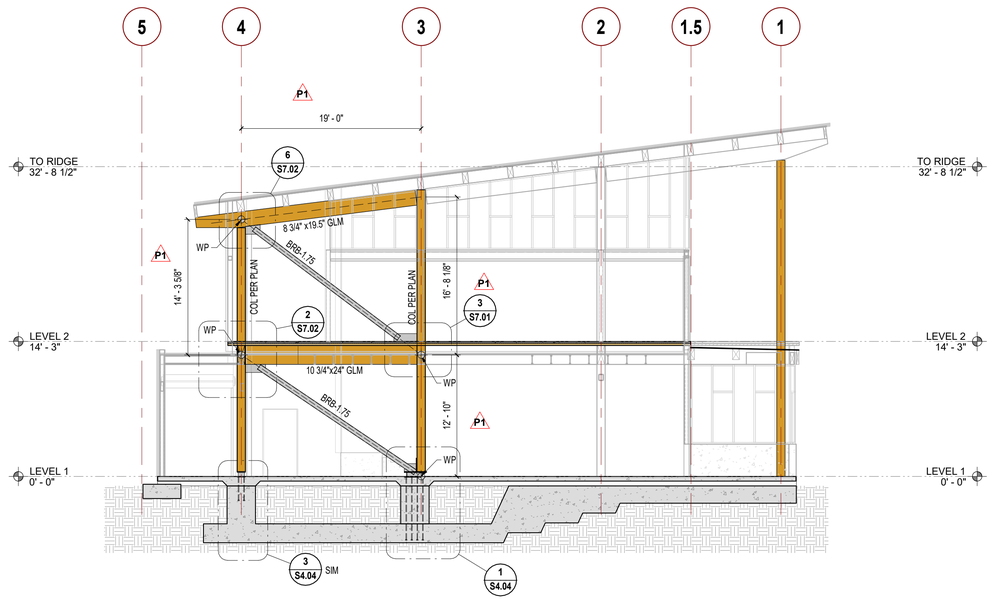
PLOT DATE: 7/14/2022 10:09:15 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt



1 S3.06 GRID LINE B ELEVATION

1/8" = 1'-0"



2 S3.06 BRACED FRAME ELEVATION GRID LINE F

1/8" = 1'-0"

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Drawing Title

BRACED FRAMED ELEVATIONS

Drawing No.

S3.06

Sheet No.

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LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:09:16 AM

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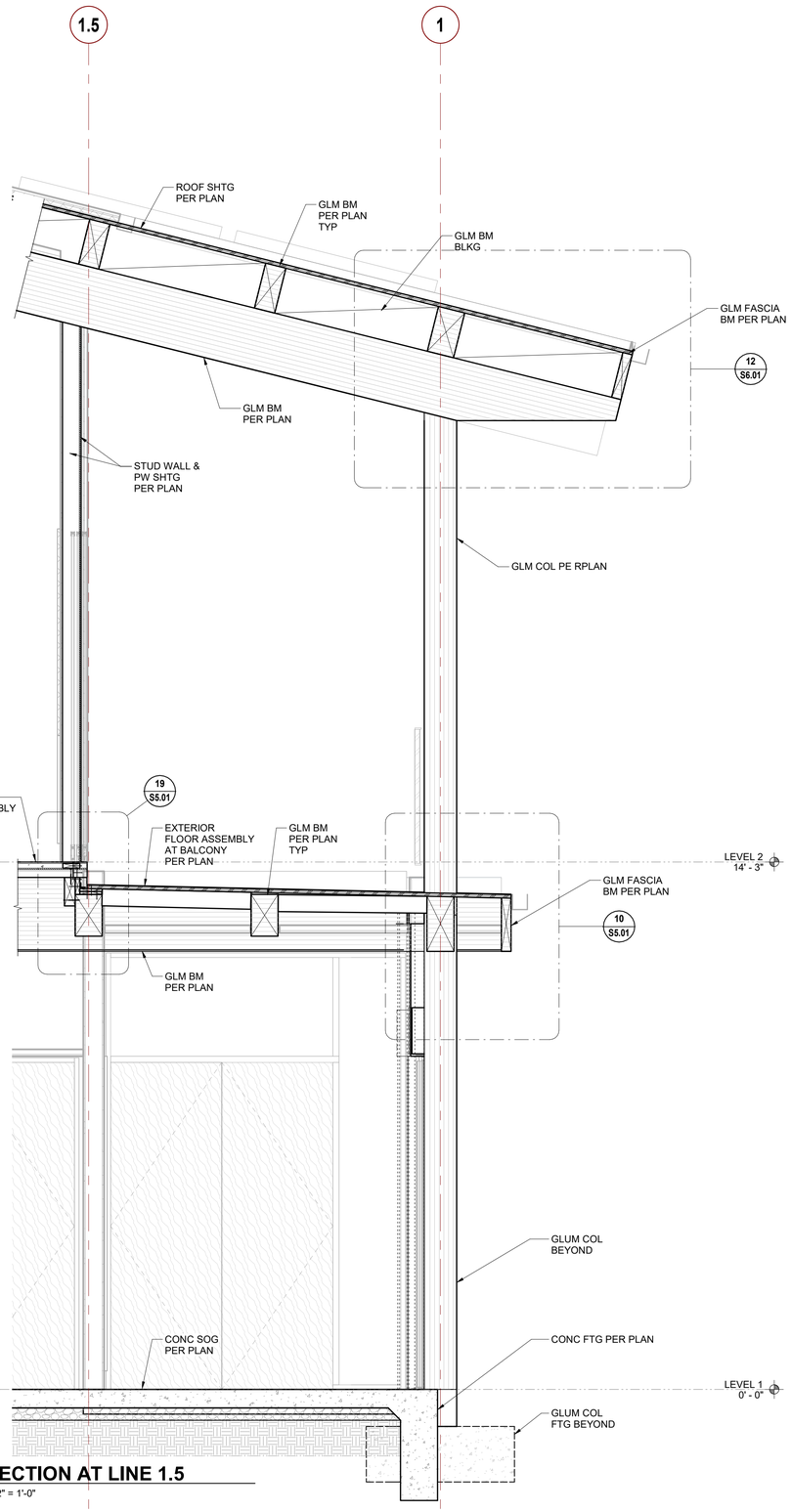
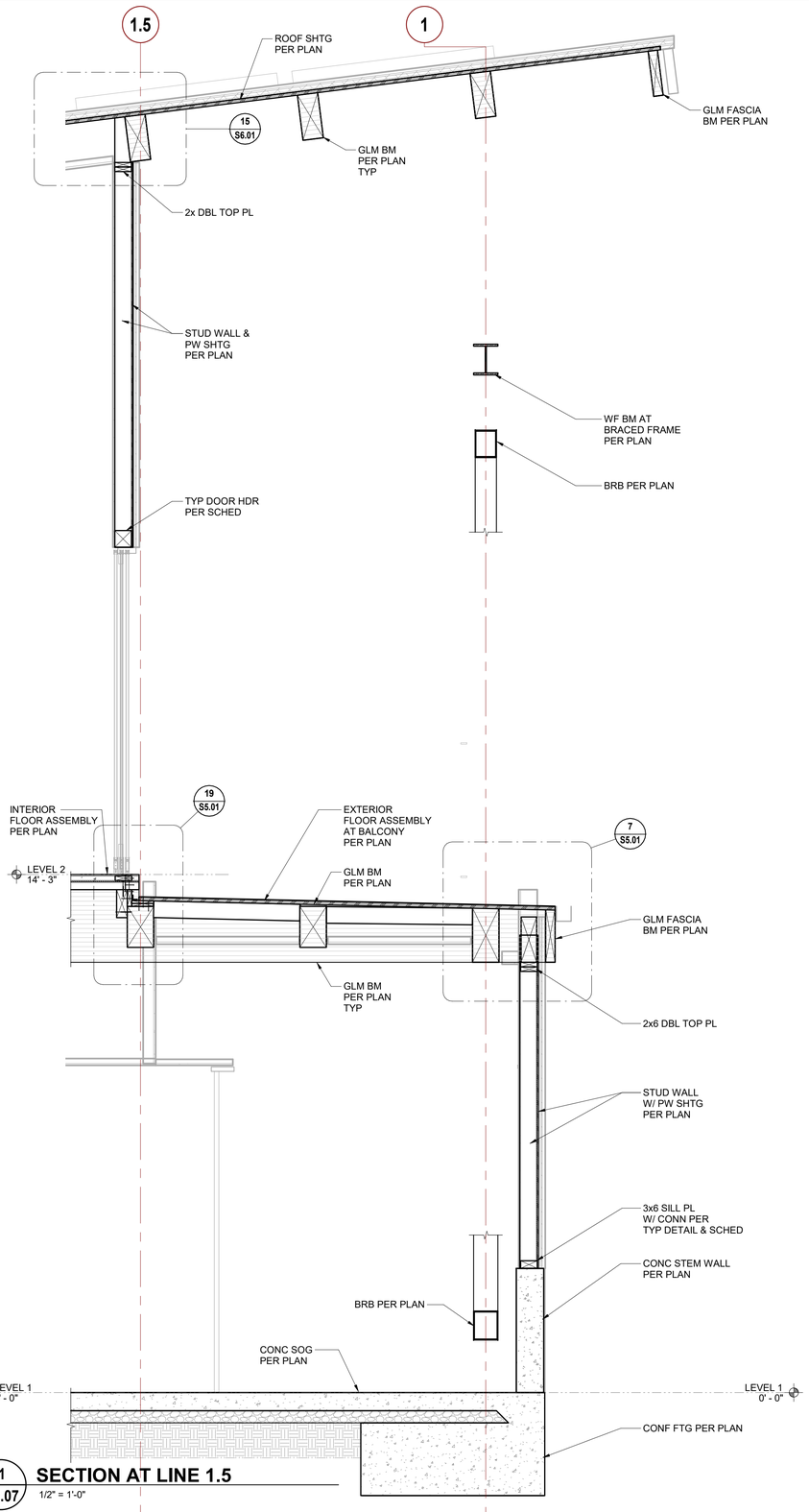


2 S3.07 **SECTION AT LINE 1.5**

1/2" = 1'-0"



1 S3.07 **SECTION AT LINE 1.5**

1/2" = 1'-0"

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Drawing Title
BUILDING SECTIONS

Drawing No.
S3.07
Sheet No.

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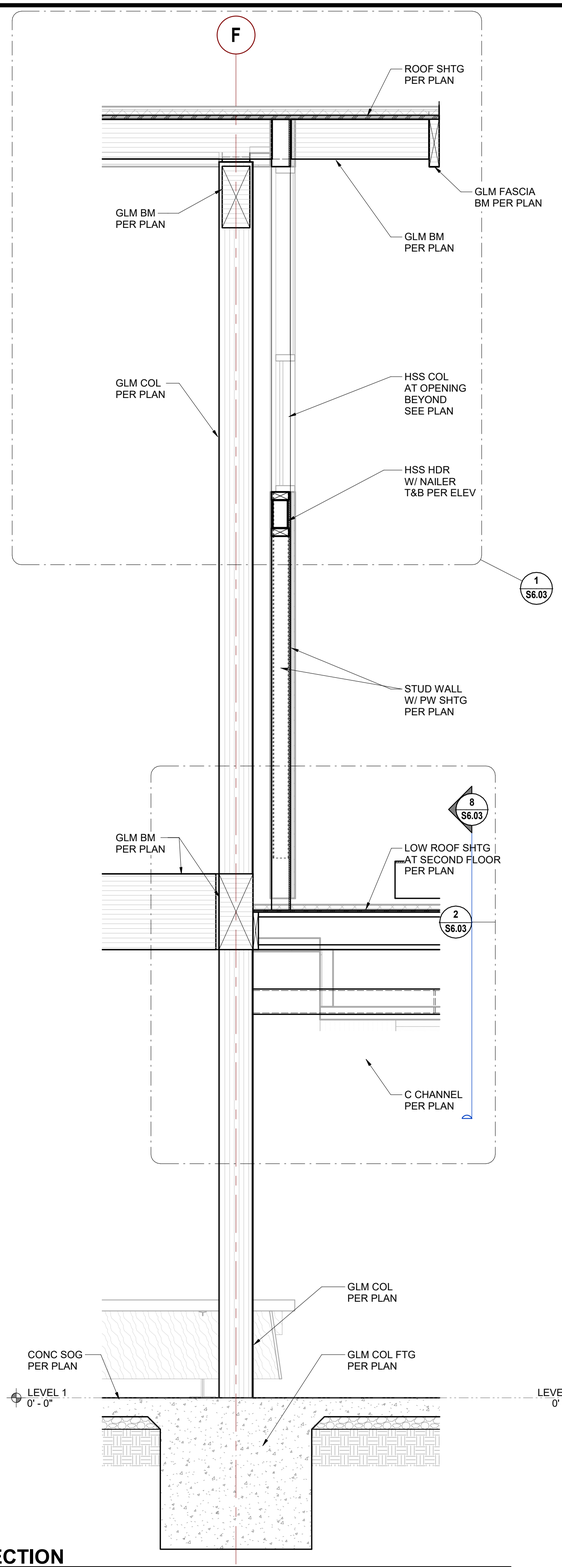
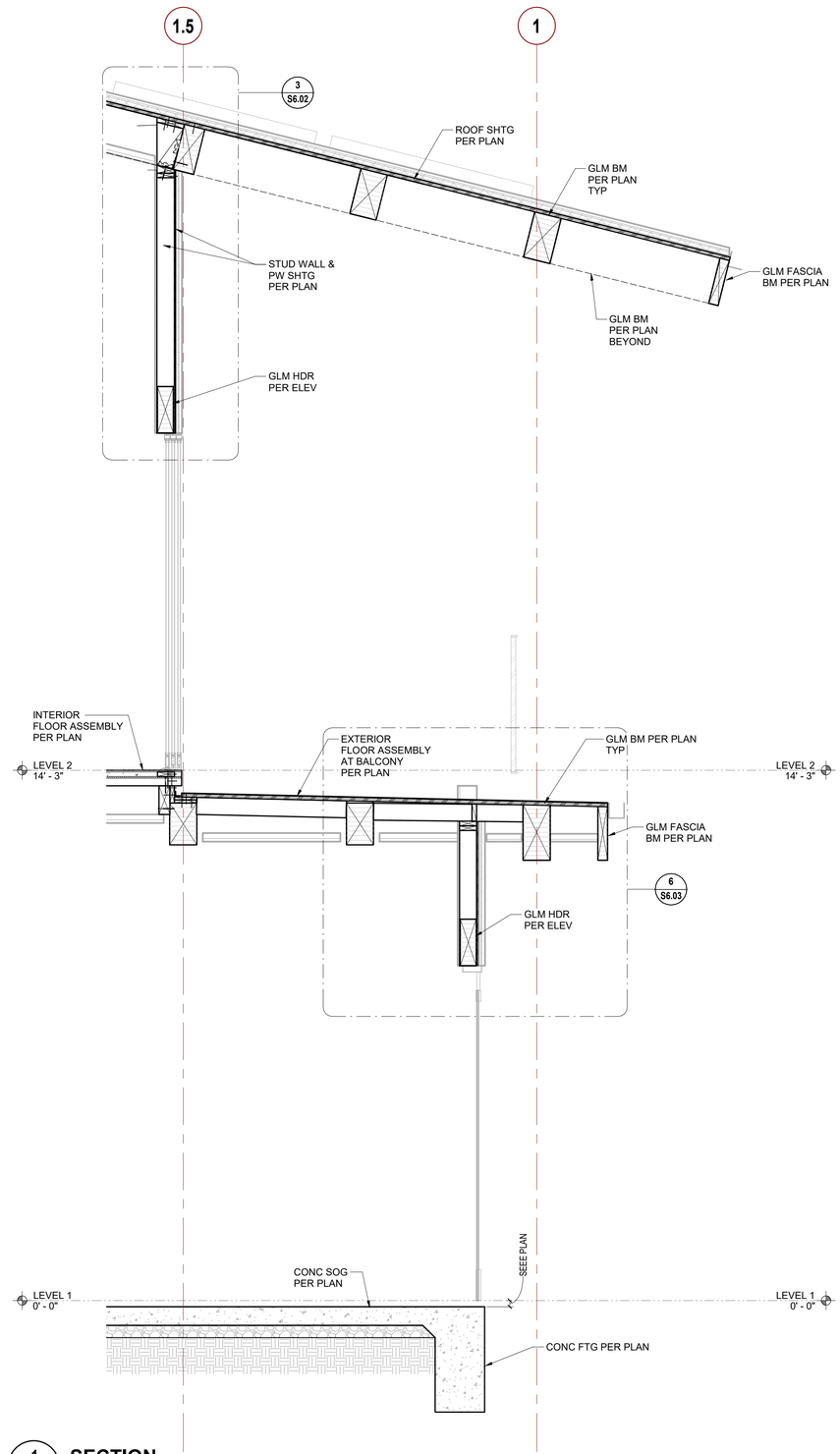
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:09:17 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt



2 S3.08 **SECTION**
1/2" = 1'-0"



1 S3.08 **SECTION**
1/2" = 1'-0"

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Drawing Title
BUILDING SECTIONS

Drawing No.
S3.08

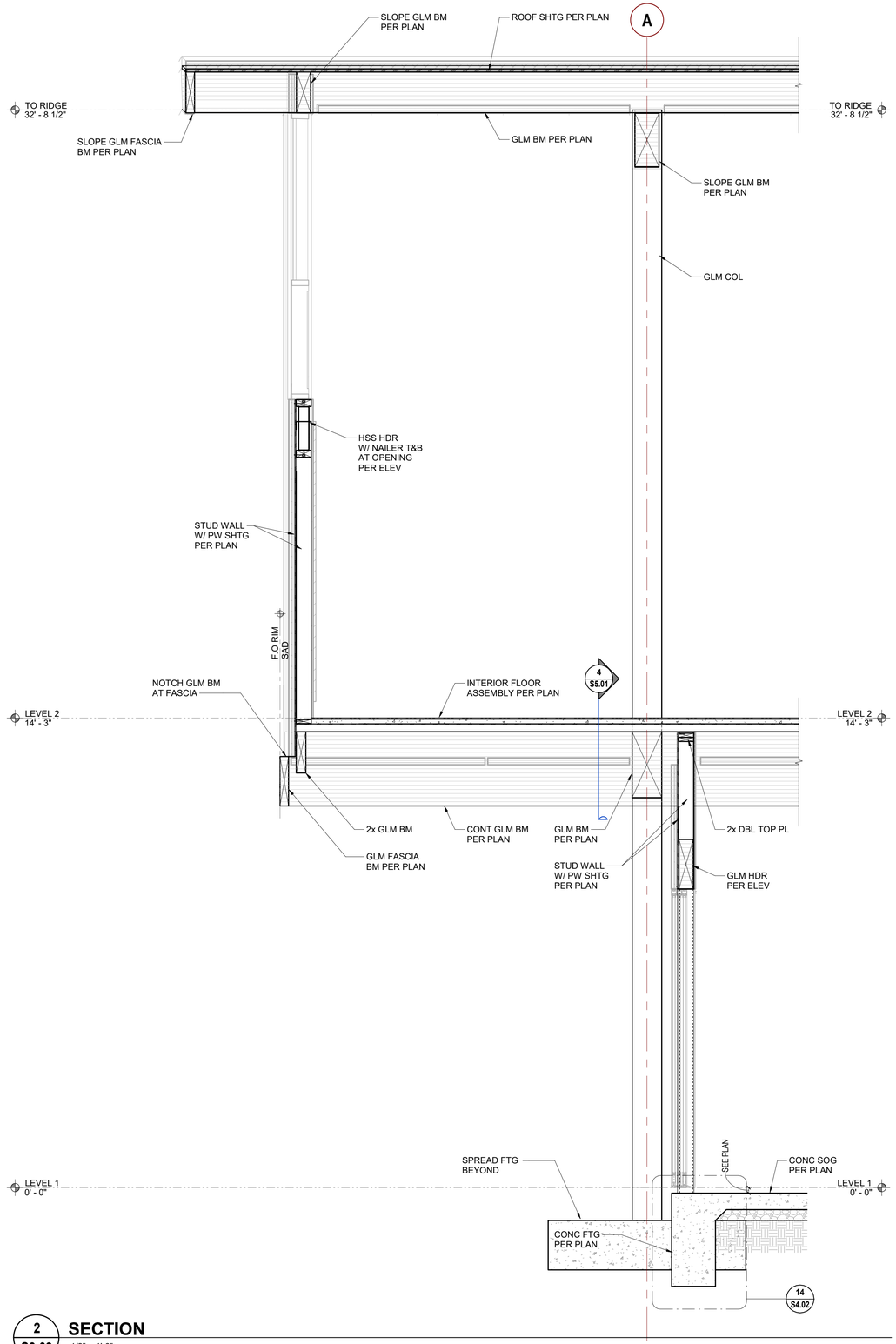
Sheet No.

MOSSWOOD COMMUNITY CENTER

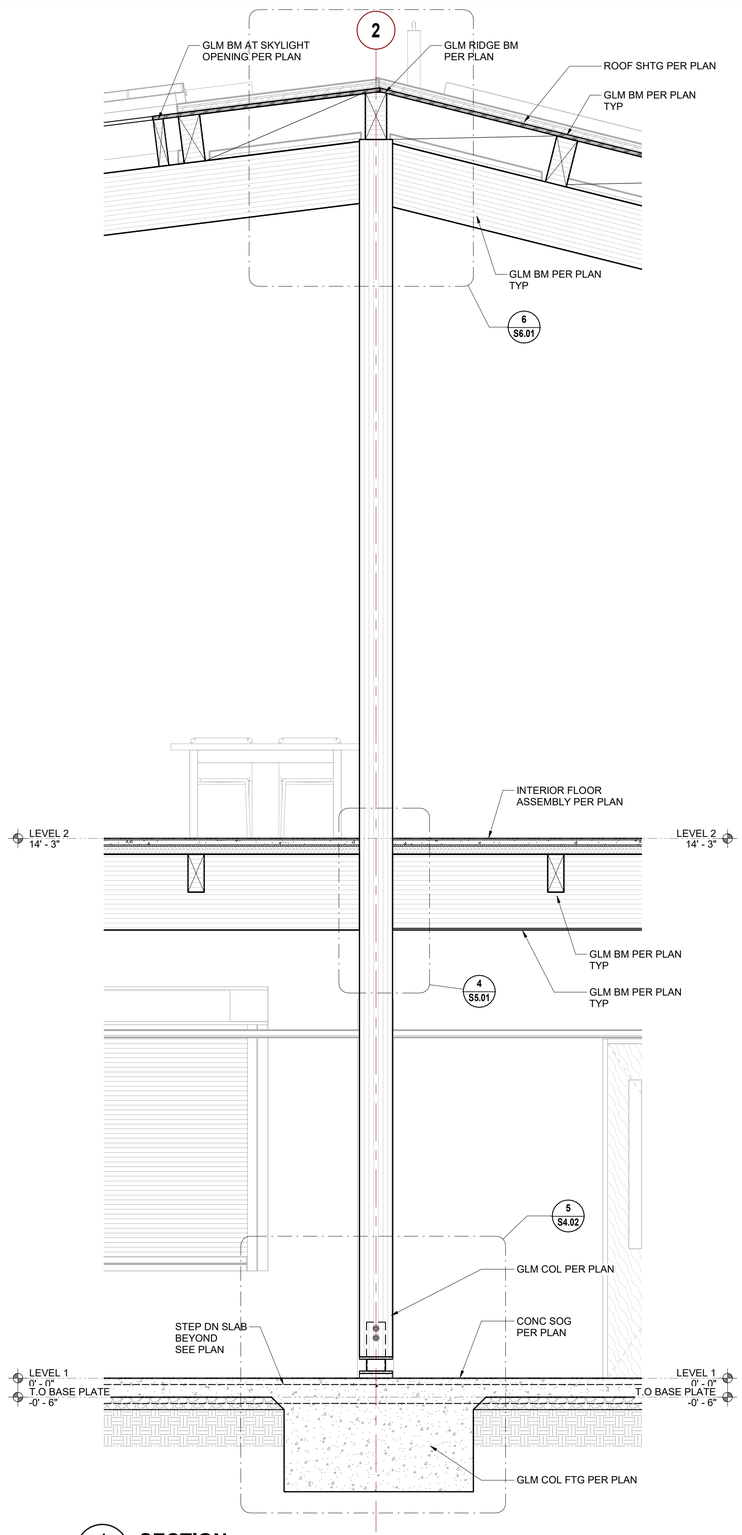
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:00:18 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt



2 **SECTION**
S3.09 1/2" = 1'-0"



1 **SECTION**
S3.09 1/2" = 1'-0"

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JASON M. LEE
No. S4980
STRUCTURAL
STATE OF CALIFORNIA

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BUILDING SECTIONS

Drawing No.
S3.09
Sheet No.

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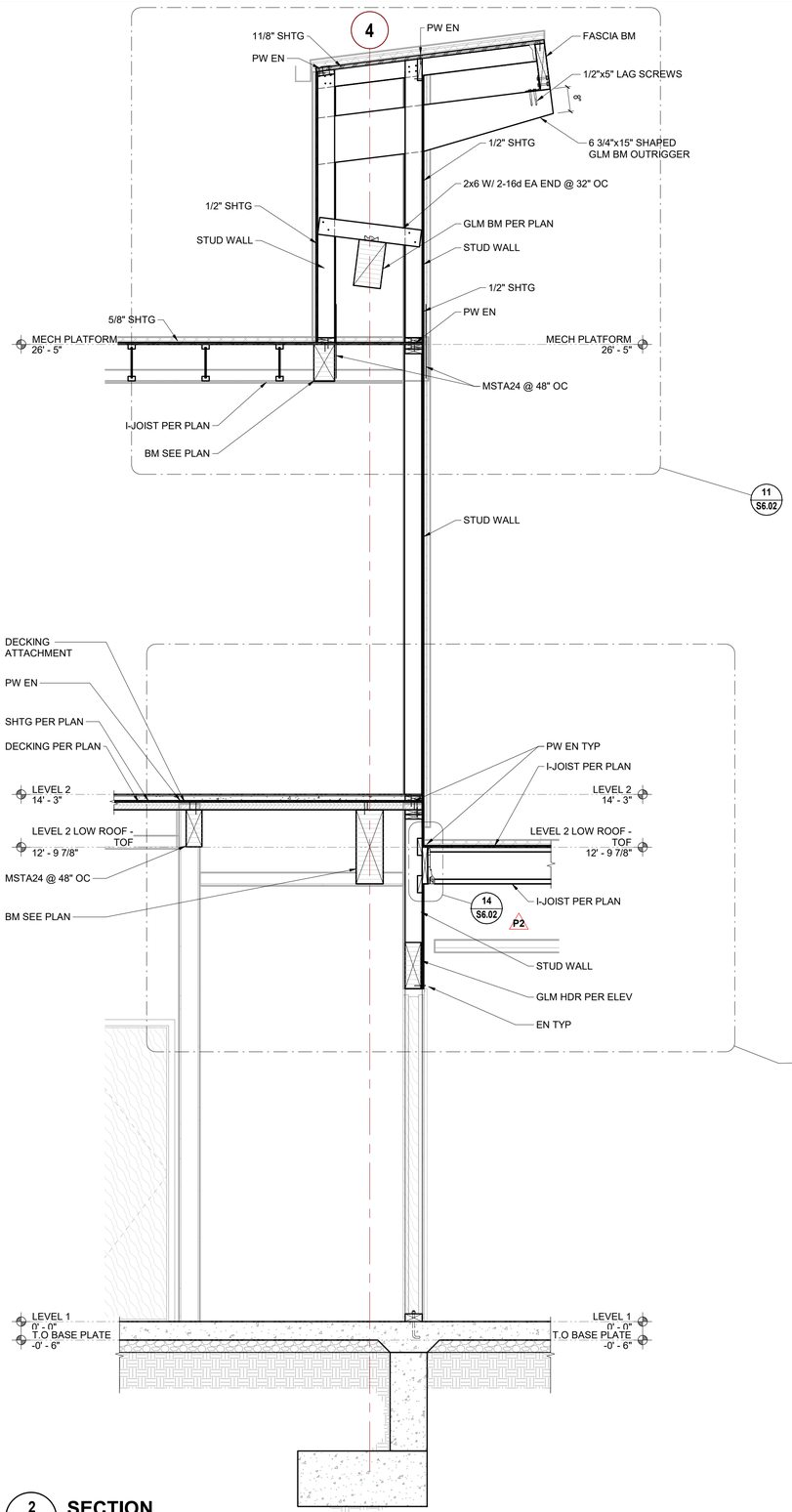
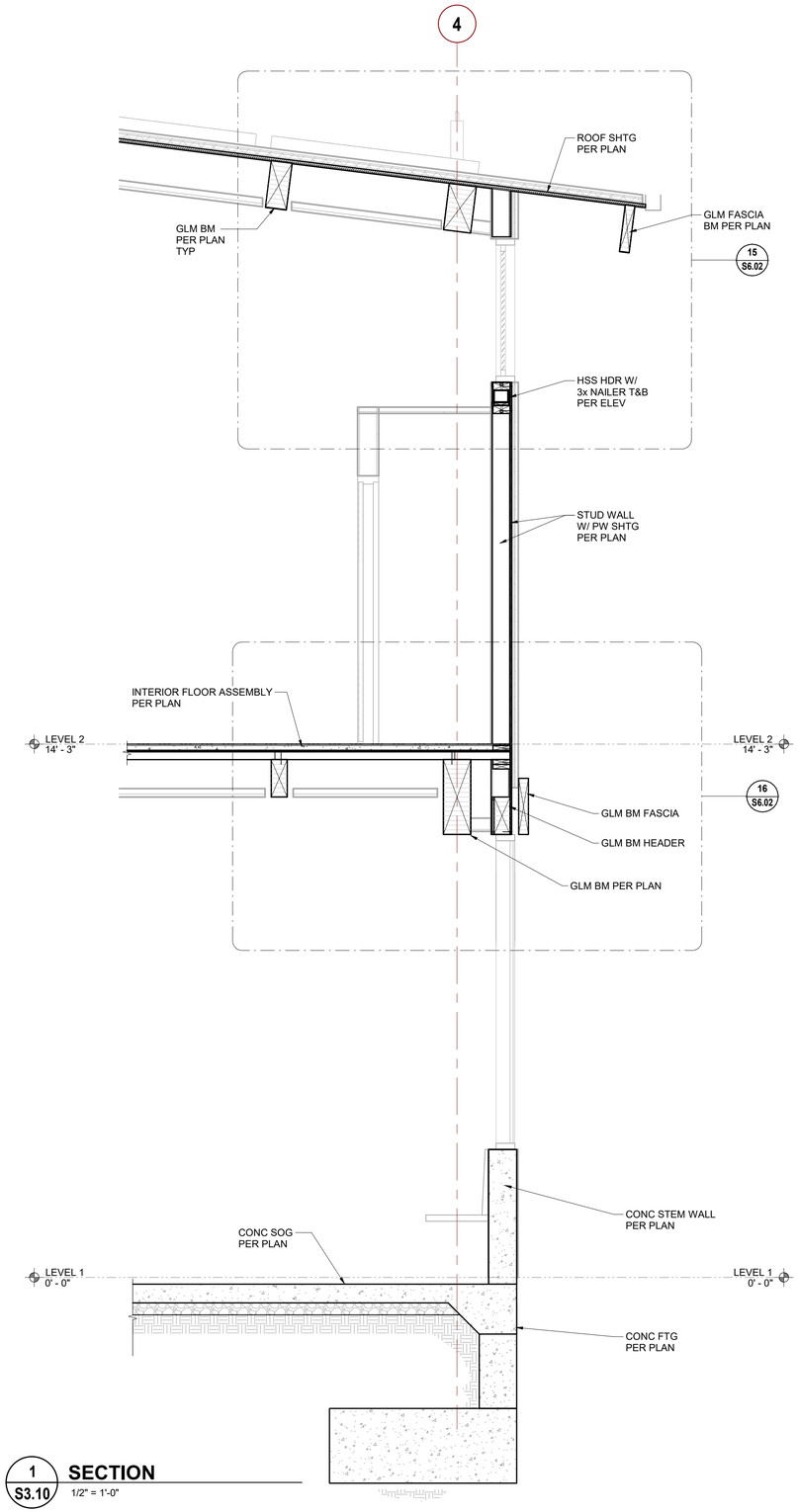


2 S3.10 **SECTION**
1/2" = 1'-0"



1 S3.10 **SECTION**
1/2" = 1'-0"

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No. S4980

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Drawing Title
BUILDING SECTIONS

Drawing No.
S3.10
Sheet No.

MOSSWOOD COMMUNITY CENTER
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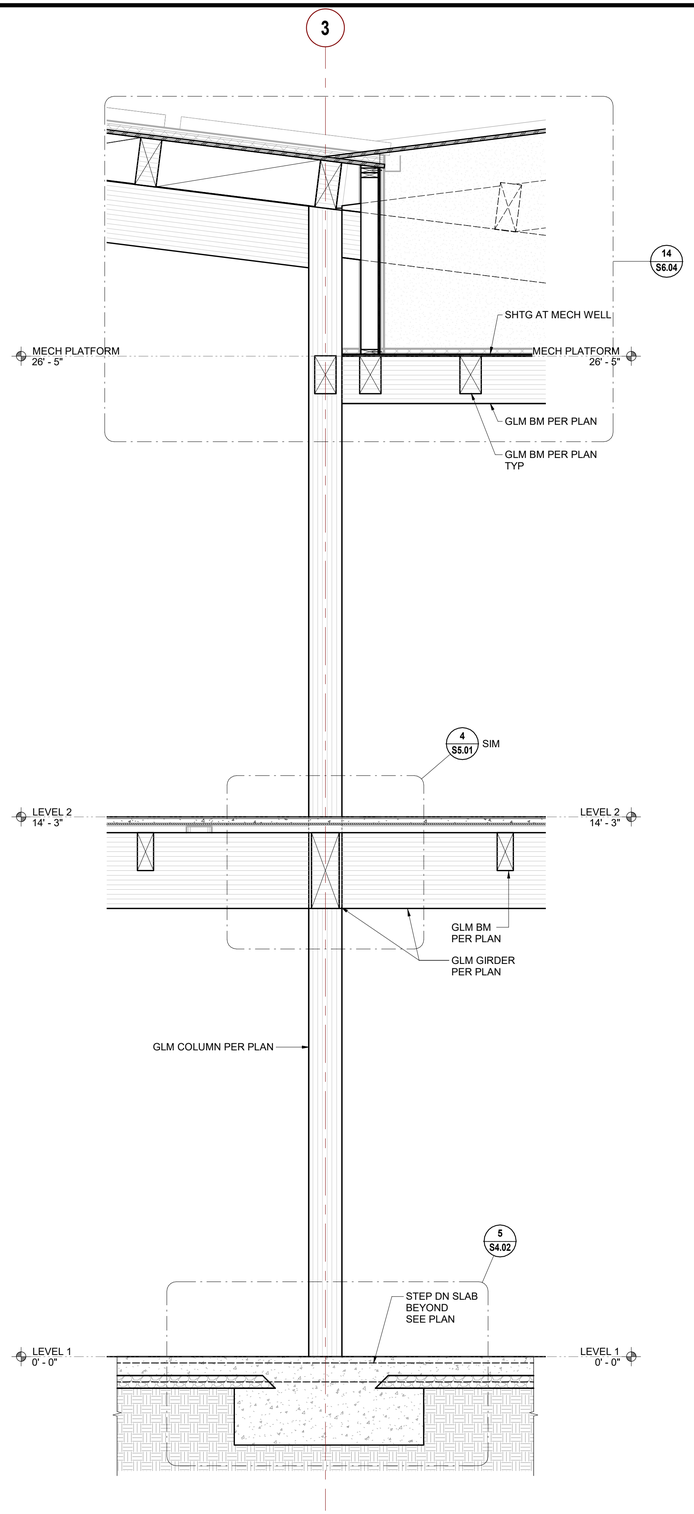
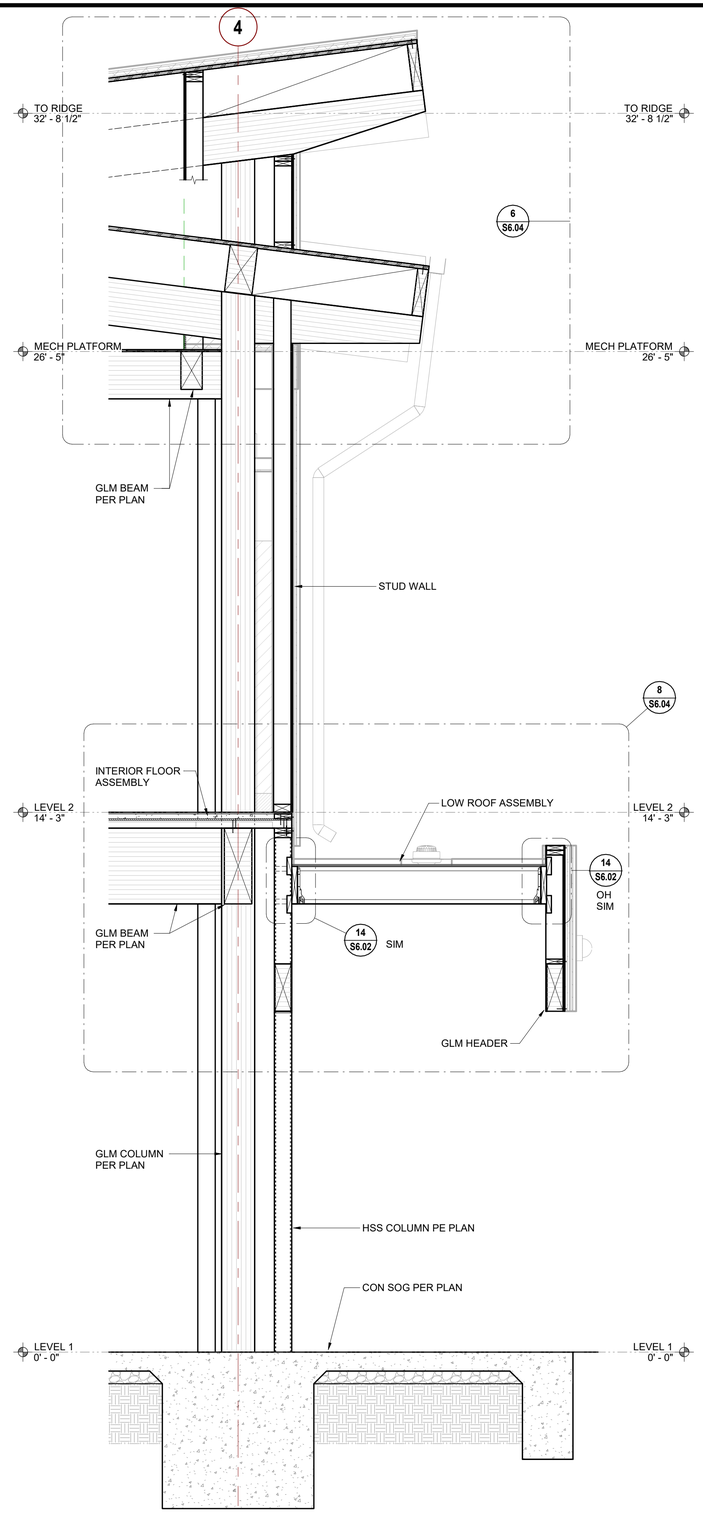
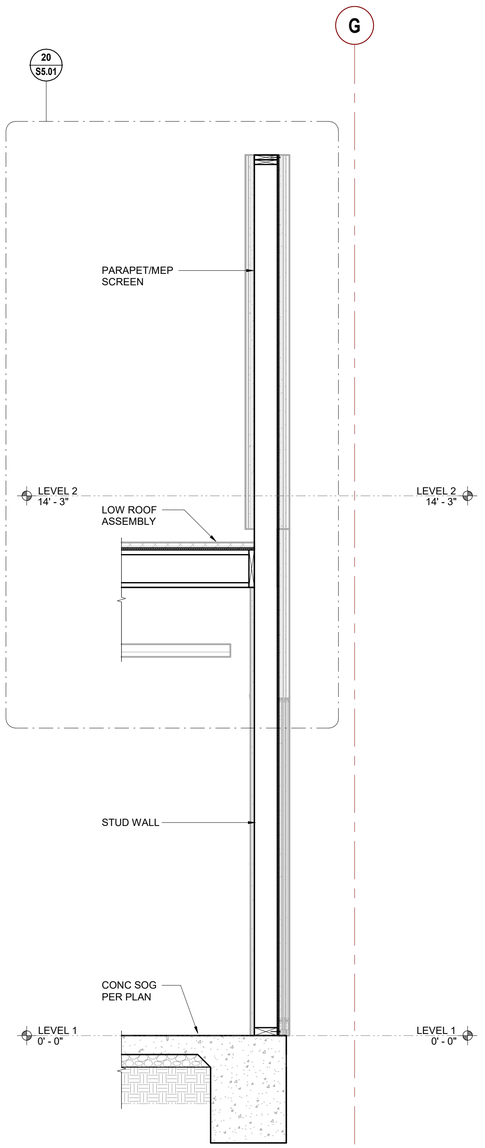


3 **SECTION** S3.11 1/2" = 1'-0"



2 **SECTION** S3.11 1/2" = 1'-0"



1 **SECTION** S3.11 1/2" = 1'-0"

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Project Information
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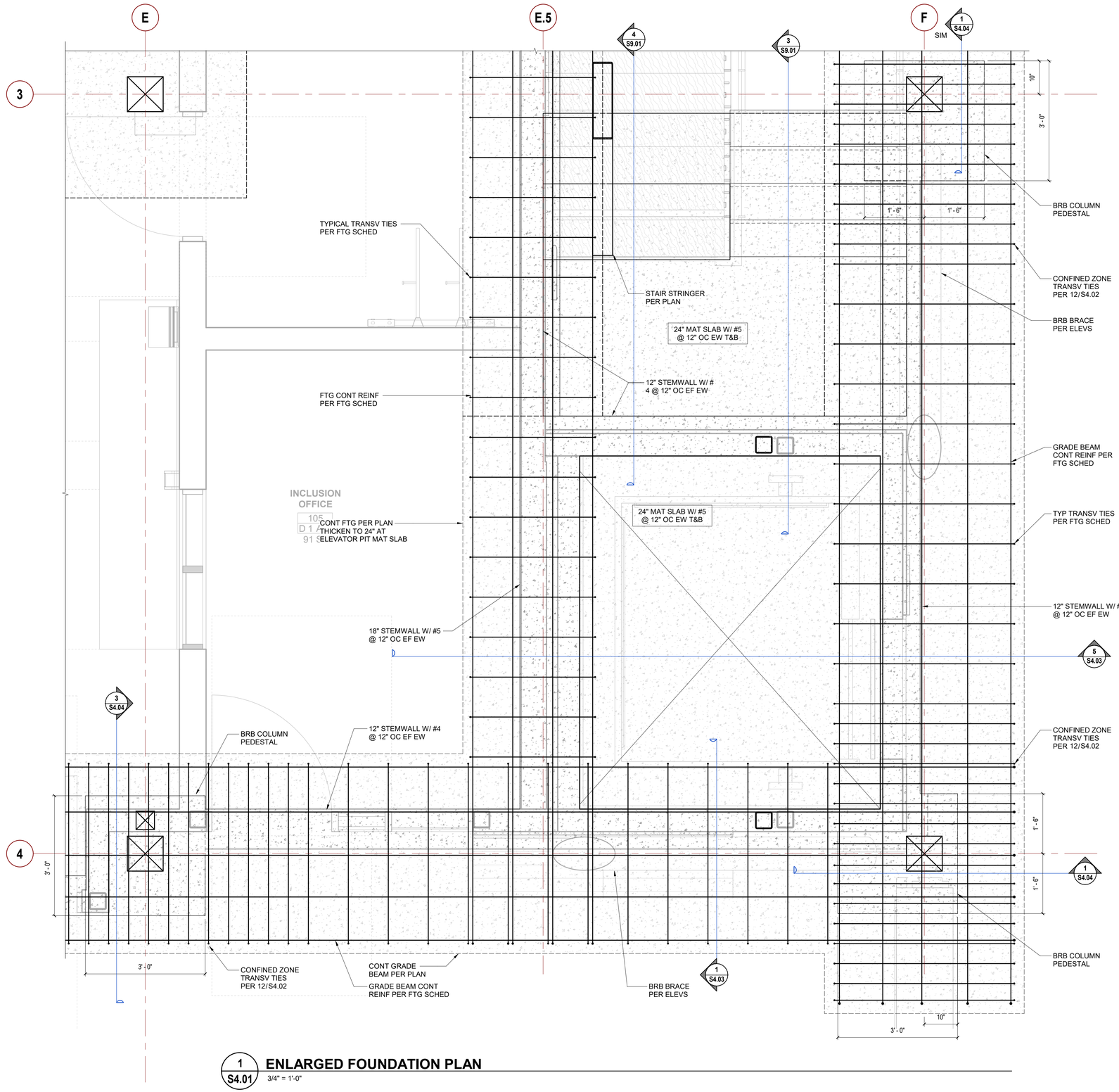
Drawing Title
BUILDING SECTIONS

Drawing No.
S3.11
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:09:20 AM
DRAWING NAME: BIM 360:../Mosswood/DA18115_Mosswood_Struct_R21.rvt



1 S4.01 **ENLARGED FOUNDATION PLAN**
3/4" = 1'-0"

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Drawn by: Author
Designed by: Designer
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Drawing Title
FOUNDATION ENLARGED PLAN

Drawing No.
S4.01
Sheet No.

MOSSWOOD COMMUNITY CENTER
PLOT DATE: 7/14/2022 10:09:21 AM
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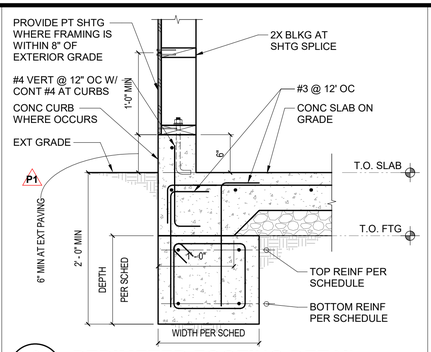
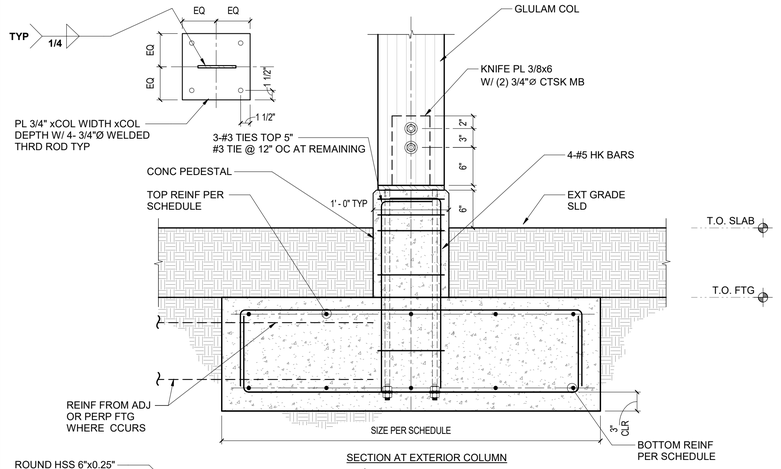
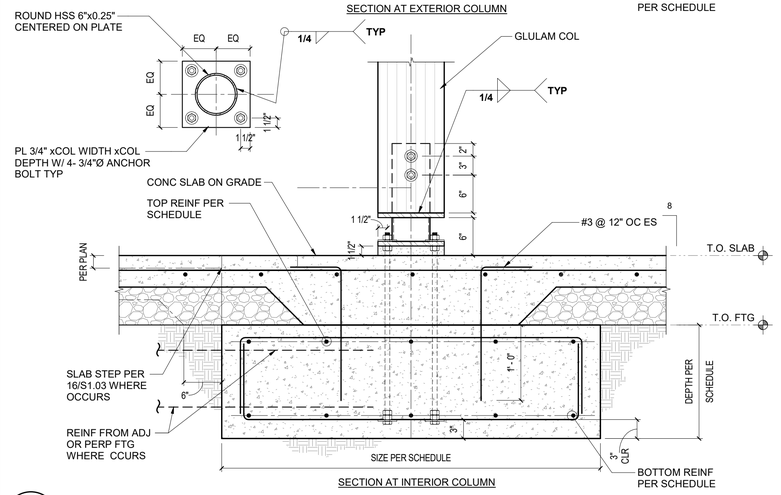
DRAWING NAME: BIM 360://Mosswood/IDA1813_Mosswood_Struct_P21.rvt



9 / S4.02 **PERIMETER FOOTING DETAIL**
1" = 1'-0"

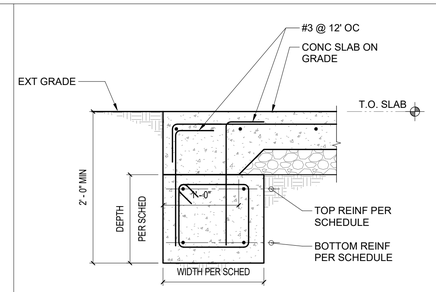


SECTION AT EXTERIOR COLUMN

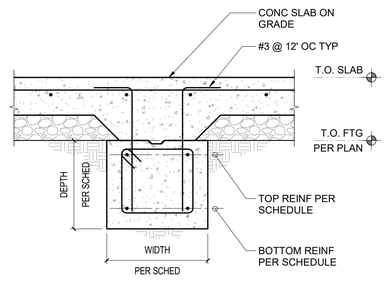


SECTION AT INTERIOR COLUMN

5 / S4.02 **SPREAD FOOTING DETAIL**
1" = 1'-0"



14 / S4.02 **PERIMETER FOOTING DETAIL**
1" = 1'-0"



10 / S4.02 **INTERIOR FOOTING DETAIL**
1" = 1'-0"

CONTINUOUS FOOTING SCHEDULE

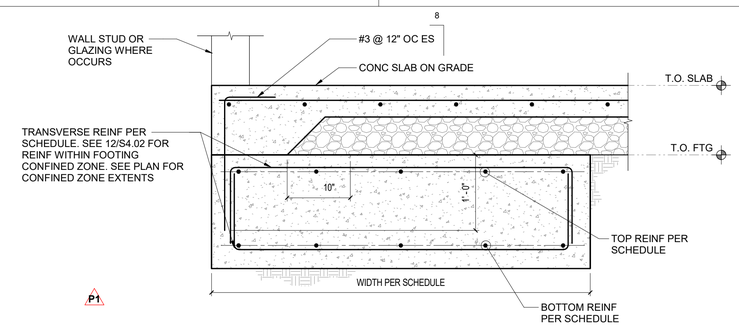
TYPE	WIDTH	DEPTH	BOTTOM REINF	TOP REINF	TRANSVERSE REINF	REMARKS
CF1.0	1'-0"	1'-6"	(2) #5	(2) #5	P1 -	GRADE 80
CF1.3	1'-4"	1'-6"	(2) #5	(2) #5	#4 AT 48" OC	GRADE 80
CF2.0	2'-0"	1'-6"	(2) #5	(2) #5	#4 AT 48" OC	GRADE 80
CF3.5	3'-6"	1'-6"	(4) #5	(4) #5	#4 AT 12" OC	A706 GR 80
CF5.0	5'-0"	2'-0"	(5) #6	(5) #6	#4 AT 12" OC	A706 GR 80

P1

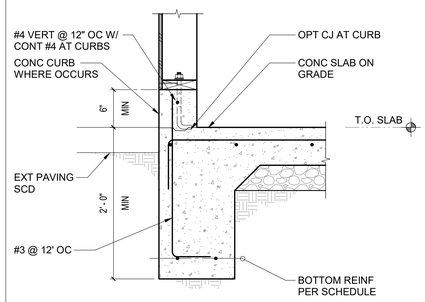
SPREAD FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	DEPTH	BOTTOM REINF	TOP REINF	REMARKS
F4.0	4'-0"	4'-0"	1'-6"	(4) #5 EW	-	GRADE 80
F5.0	5'-0"	5'-0"	1'-6"	(5) #5 EW	-	GRADE 80
F6.0	6'-0"	6'-0"	1'-6"	(6) #5 EW	-	GRADE 80

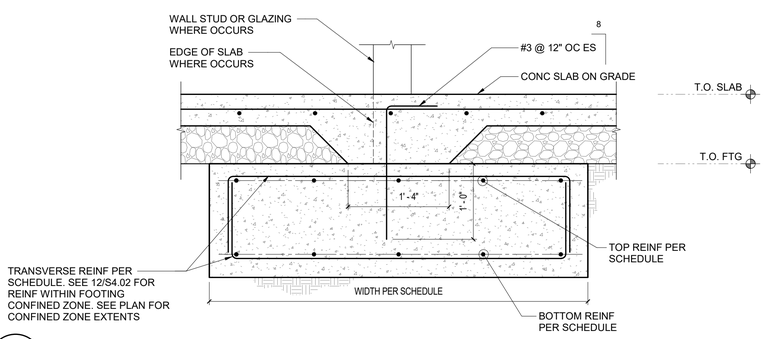
8 / S4.02 **FOOTING SCHEDULE**
NTS



19 / S4.02 **GRADE BEAM FOOTING DETAIL**
1" = 1'-0"

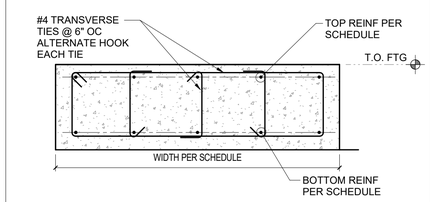


11 / S4.02 **THICKENED SLAB EDGE**
1" = 1'-0"



20 / S4.02 **GRADE BEAM FOOTING DETAIL**
1" = 1'-0"

NOTE:
SEE PLAN FOR FOOTING CONFINED ZONE EXTENTS



12 / S4.02 **GRADE BEAM CONFINED ZONE**
3/4" = 1'-0"

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Drawn by: AI, AP, JML, KF
Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
FOUNDATION DETAILS

Drawing No.
S4.02

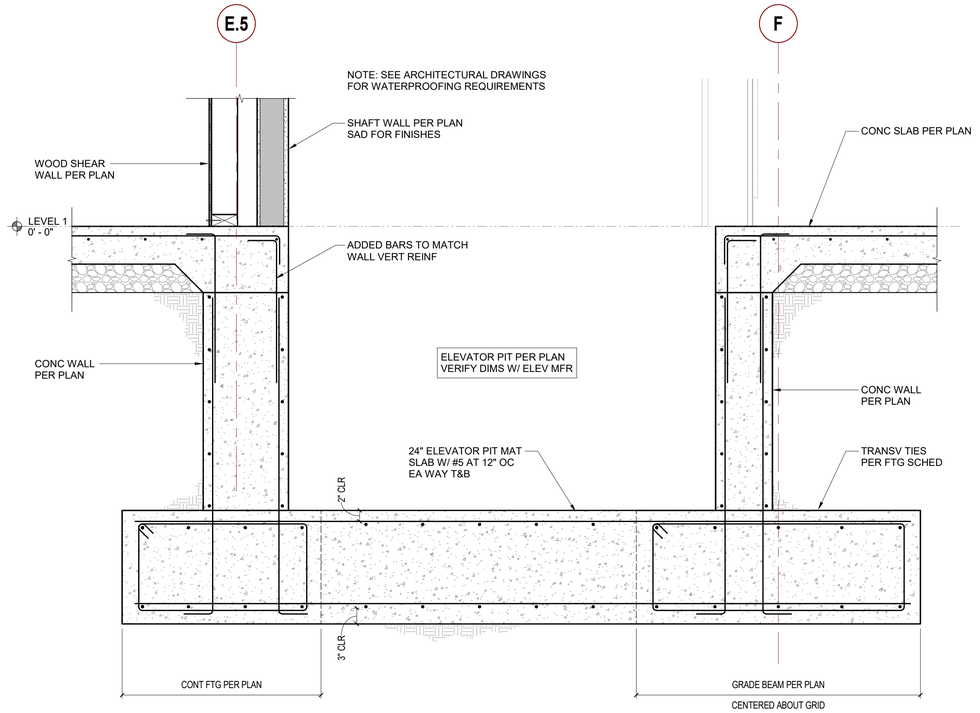
Sheet No.

MOSSWOOD COMMUNITY CENTER

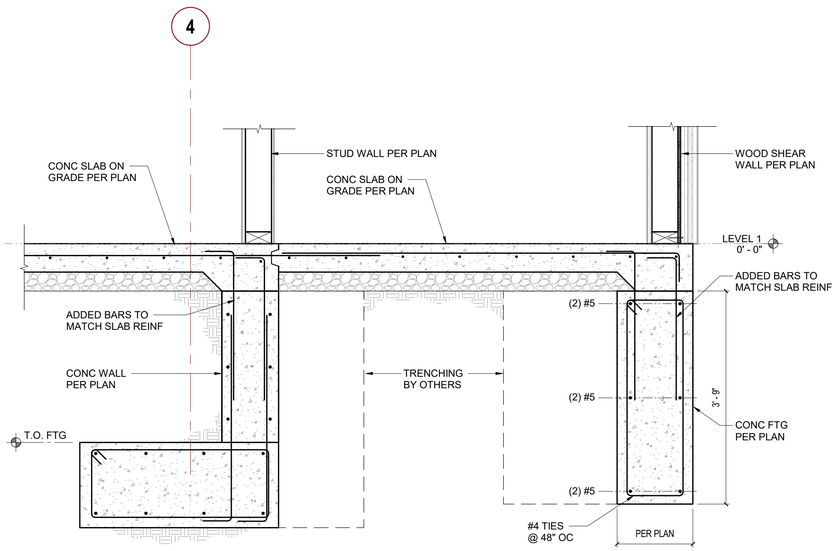
LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:09:23 AM

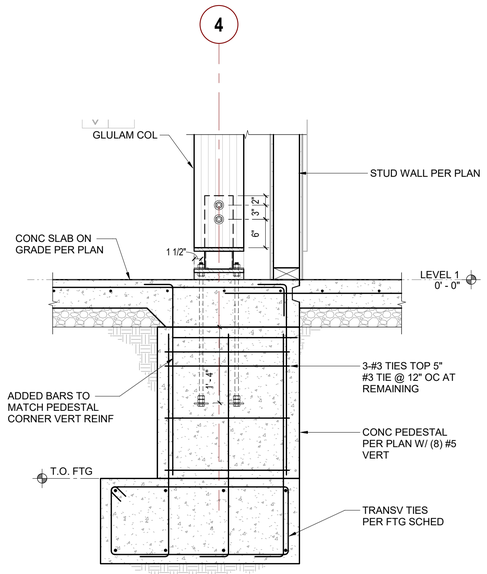
DRAWING NAME: BM 360::\Mosswood\IDA18113_Mosswood_Struct_P21.rvt



5 / S4.03 **SECTION AT ELEVATOR**
3/4" = 1'-0"

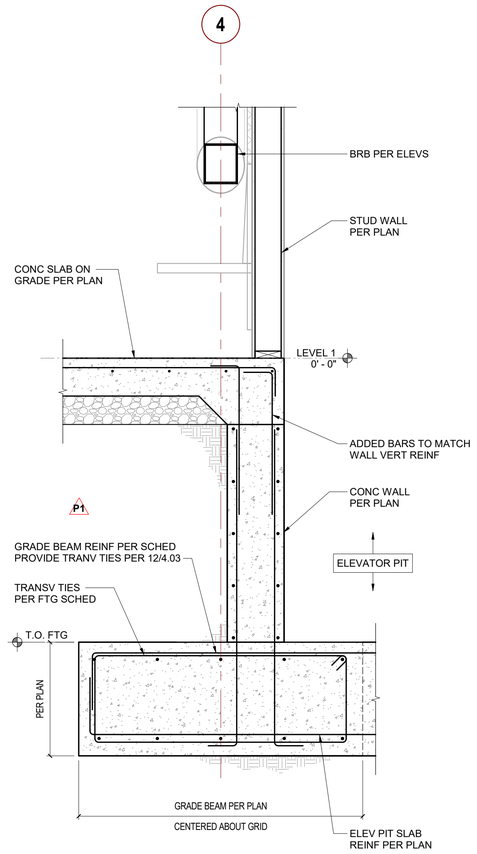


6 / S4.03 **FOUNDATION SECTION**
3/4" = 1'-0"



NOTE: SEE 5/S4.02 FOR ADDITIONAL INFORMATION
SEE 4/S4.04 AT BRB COLUMN AWAY FROM BRACE

4 / S4.03 **FOUNDATION SECTION AT PEDESTAL**
3/4" = 1'-0"



NOTE: SEE ARCHITECTURAL DRAWINGS
FOR WATERPROOFING REQUIREMENTS

1 / S4.03 **SECTION AT ELEVATOR**
3/4" = 1'-0"

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Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER
JASON M. LEE
No. S4980
STRUCTURAL
STATE OF CALIFORNIA

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P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
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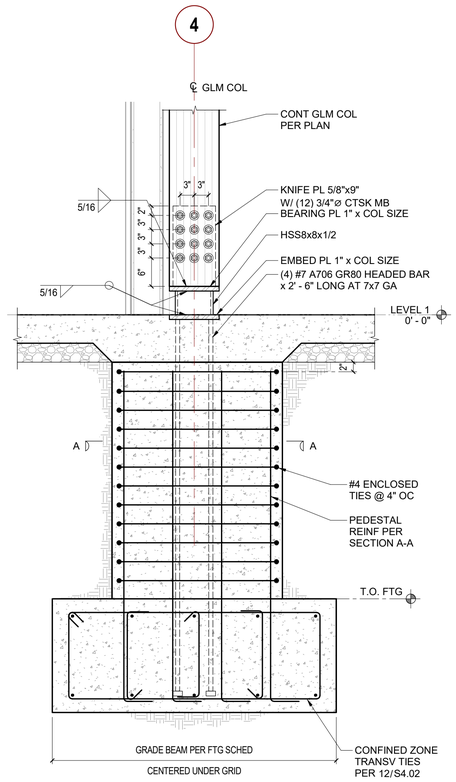
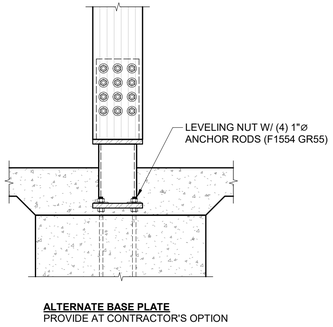
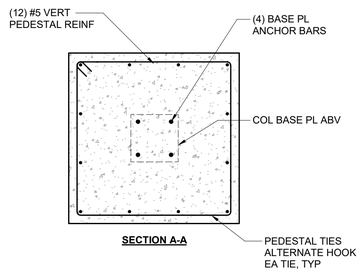
Drawing Title
FOUNDATION DETAILS

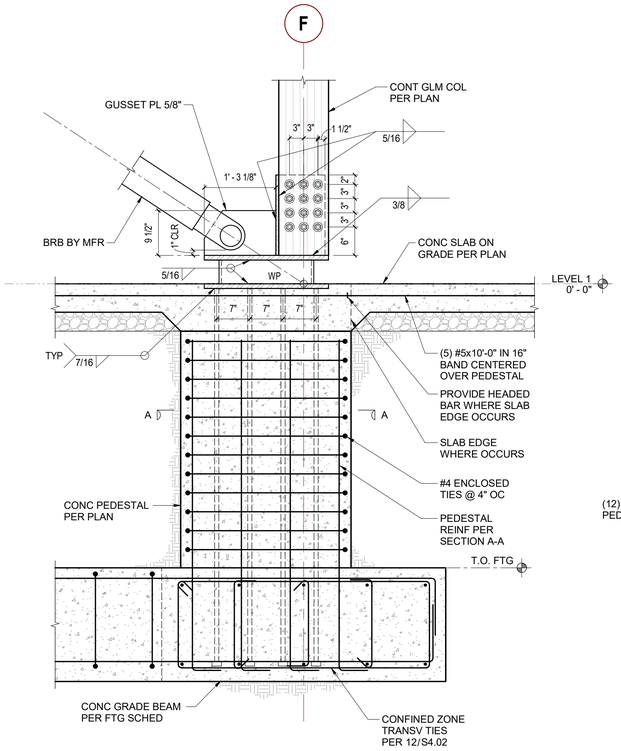
Drawing No.
S4.03
Sheet No.

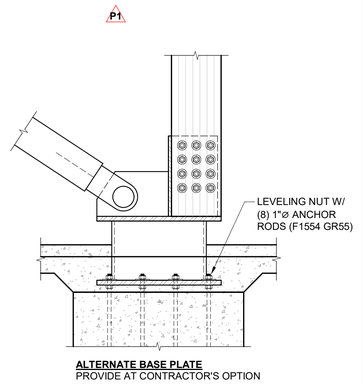
MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:09:24 AM
DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt

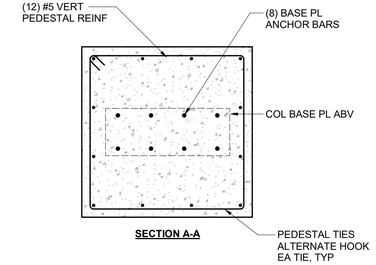








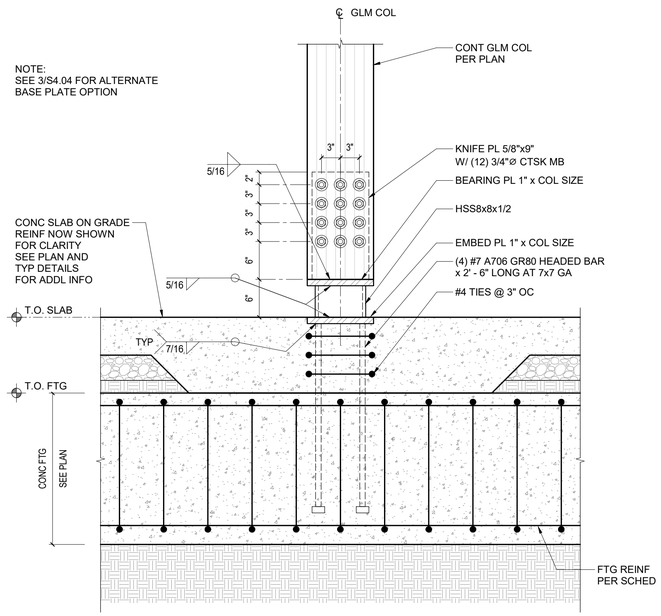




NOTE:
SEE 2/S4.04 FOR ADDITIONAL INFORMATION

3 S4.04 BRB COLUMN BASE AT PEDESTAL

3/4" = 1'-0"

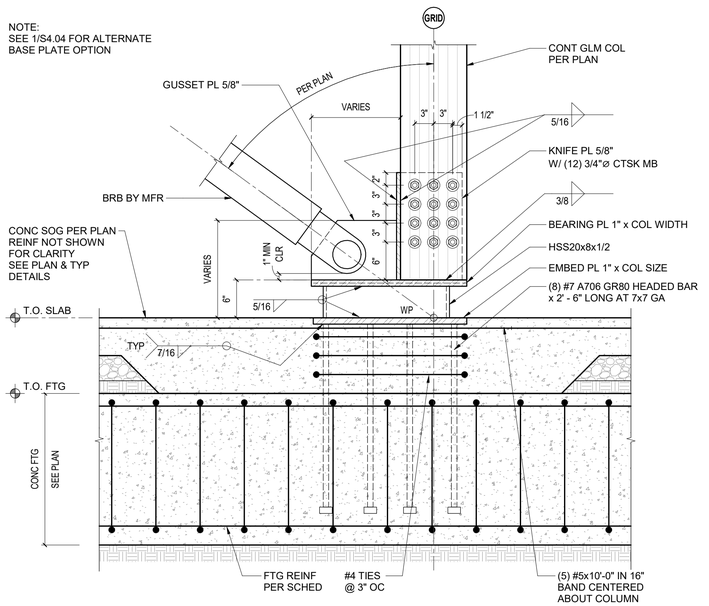


4 S4.04 BRB COLUMN BASE AWAY FROM BRACE

1" = 1'-0"

1 S4.04 BRB COLUMN BASE AT PEDESTAL

3/4" = 1'-0"



2 S4.04 BRB COLUMN BASE

1" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
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P1	03/17/2022	PERMIT REVISIONS
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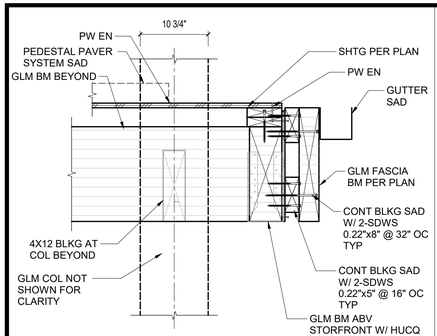
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

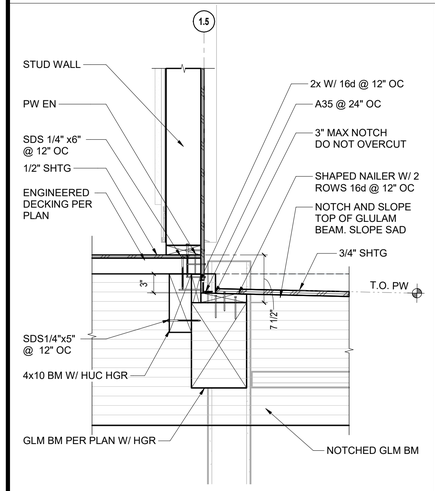
Drawing Title
FOUNDATION DETAILS

Drawing No.
S4.04
Sheet No.

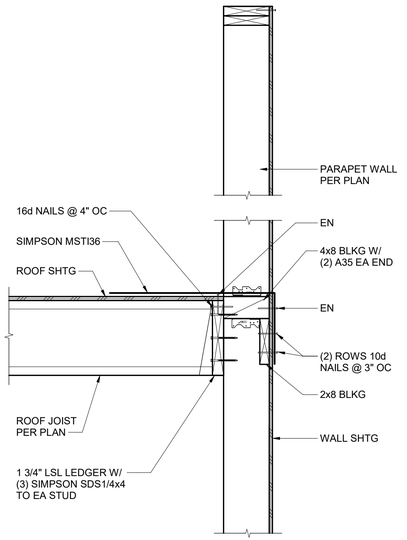
MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:00:26 AM
DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt



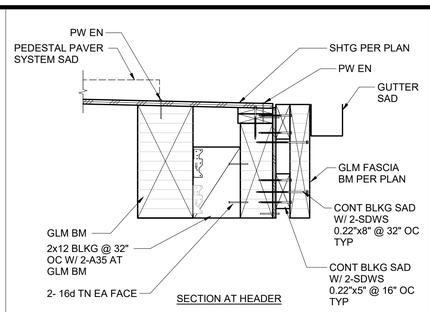
18 / S5.01 DETAIL AT EDGE OF BALCONY
1" = 1'-0"



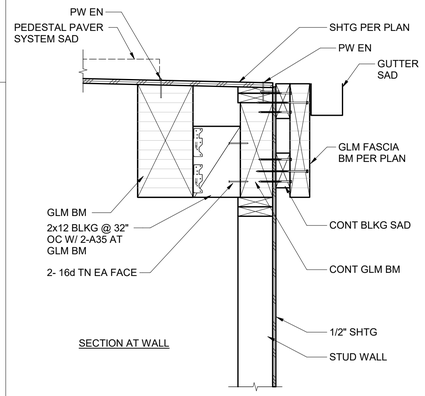
19 / S5.01 SECTION AT BALCONY
1" = 1'-0"



20 / S5.01 BALLOON FRAMING AT LOW ROOF
1" = 1'-0"

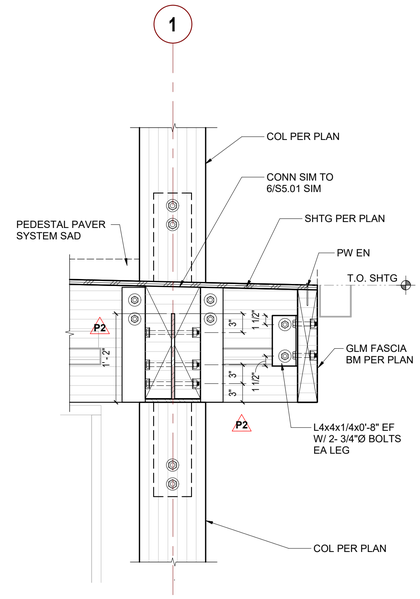


SECTION AT HEADER

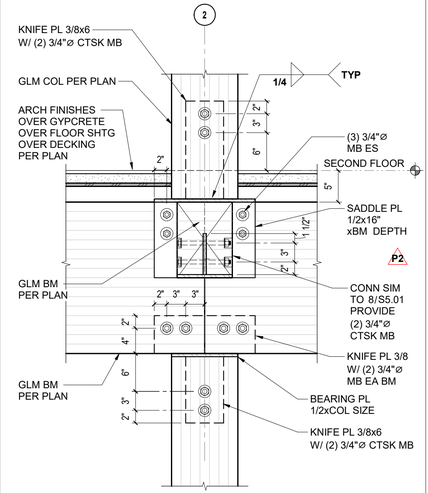


SECTION AT WALL

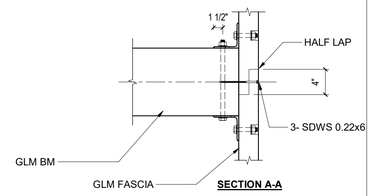
14 / S5.01 DETAIL AT EDGE OF BALCONY
1" = 1'-0"



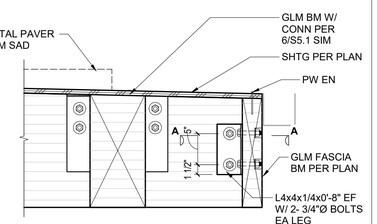
10 / S5.01 DETAIL AT EDGE OF BALCONY
1" = 1'-0"



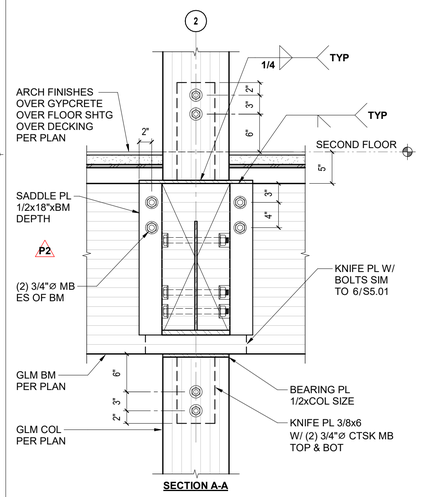
6 / S5.01 SECTION
1" = 1'-0"



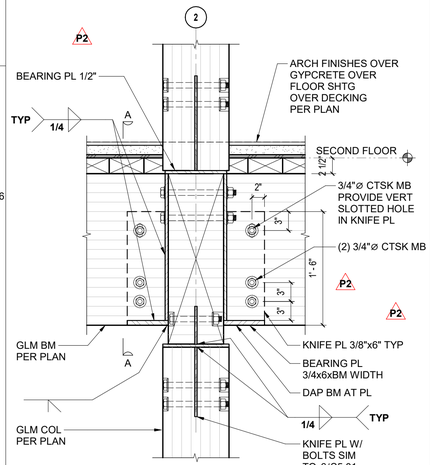
SECTION A-A



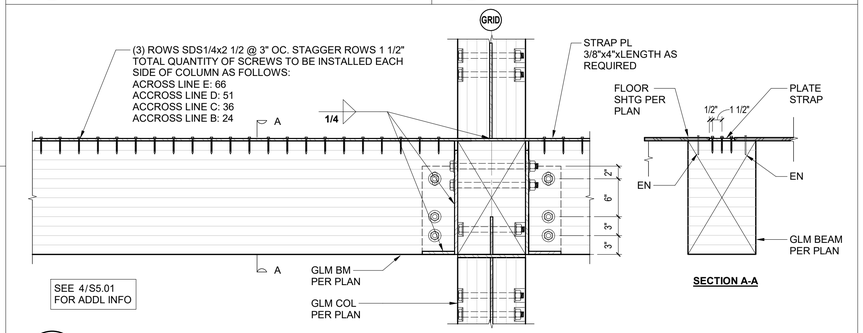
7 / S5.01 DETAIL AT EDGE OF BALCONY
1" = 1'-0"



SECTION A-A



4 / S5.01 TYPICAL INTERIOR BEAM-COLUMN CONNECTION
1" = 1'-0"



SECTION A-A

15 / S5.01 COLLECTOR STRAP CONNECTION
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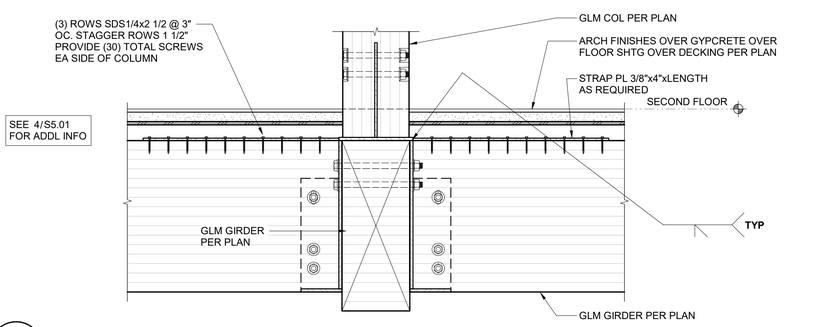
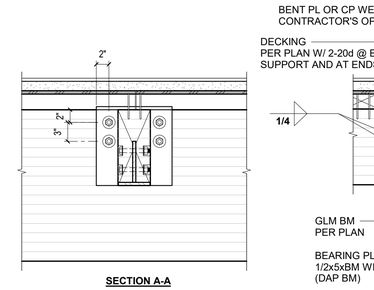
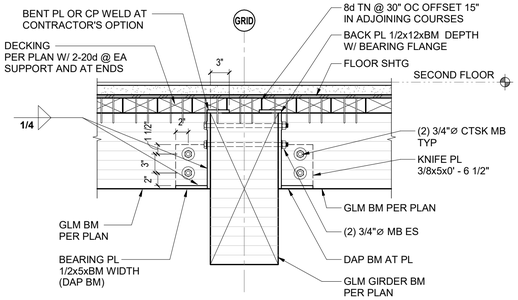


16 / S5.01 FRAMING AT DISCONTINUOUS COLUMN
1" = 1'-0"



SECTION A-A



8 / S5.01 SECTION
1" = 1'-0"

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Designed by: Designer
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REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

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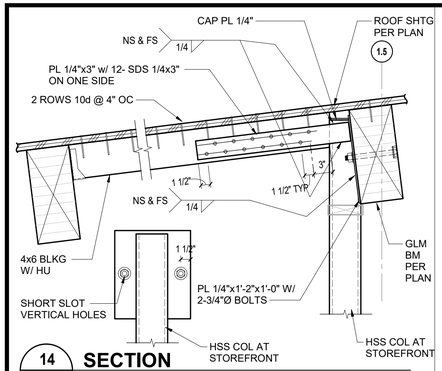
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
SECOND FLOOR DETAILS

Drawing No.
S5.01
Sheet No.

PLOT DATE: 7/14/2022 10:09:28 AM
LMSA PROJECT NUMBER: 1902
DRAWING NAME: BIM 360:../Mosswood/DA18115_Mosswood_Struct_R21.rvt



14 / S6.01 **SECTION**
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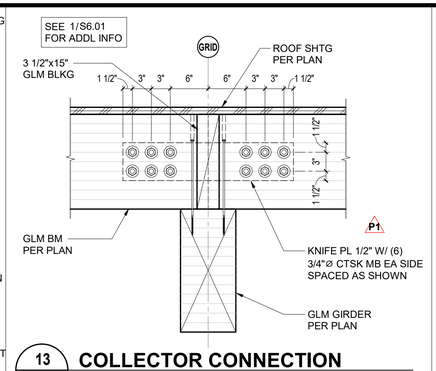
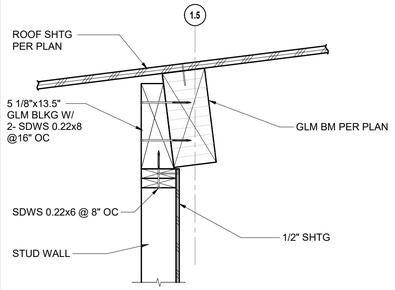
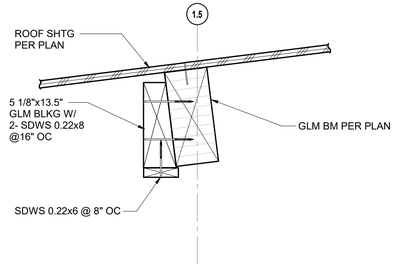


13 / S6.01 **COLLECTOR CONNECTION**
1" = 1'-0"

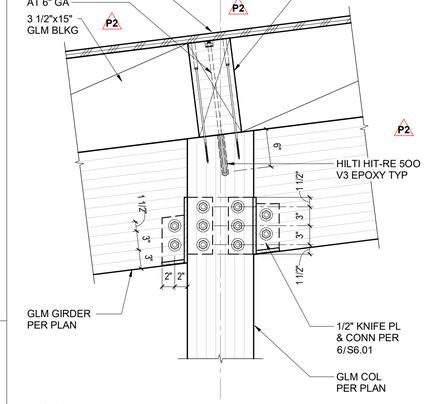


SECTION AT WALL

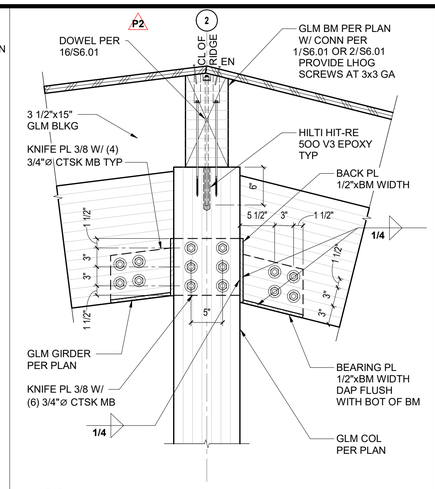


SECTION AT STOREFRONT

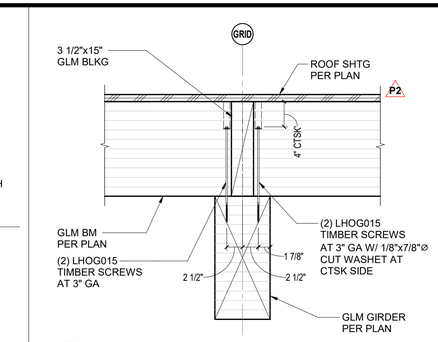
15 / S6.01 **SECTION**
1" = 1'-0"



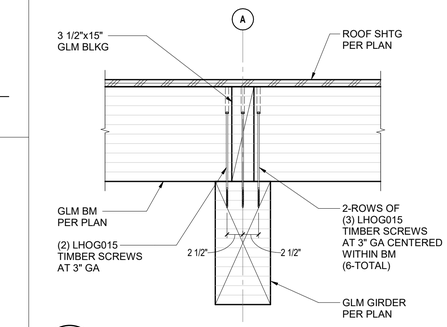
10 / S6.01 **SECTION**
1" = 1'-0"



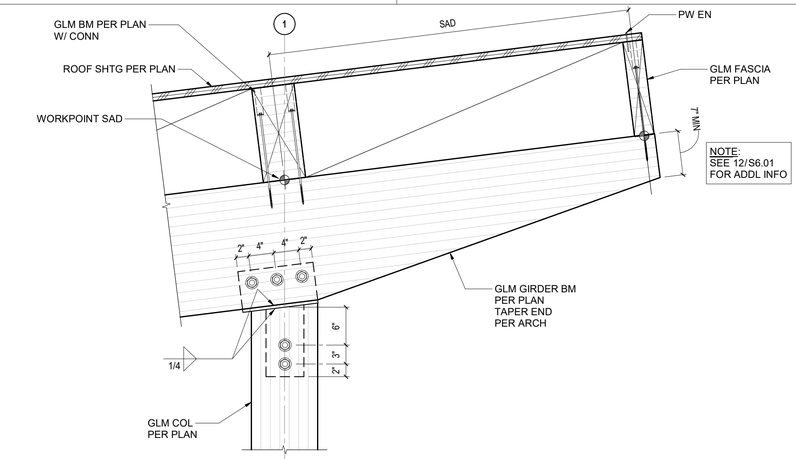
6 / S6.01 **SECTION AT RIDGE BEAM**
1" = 1'-0"



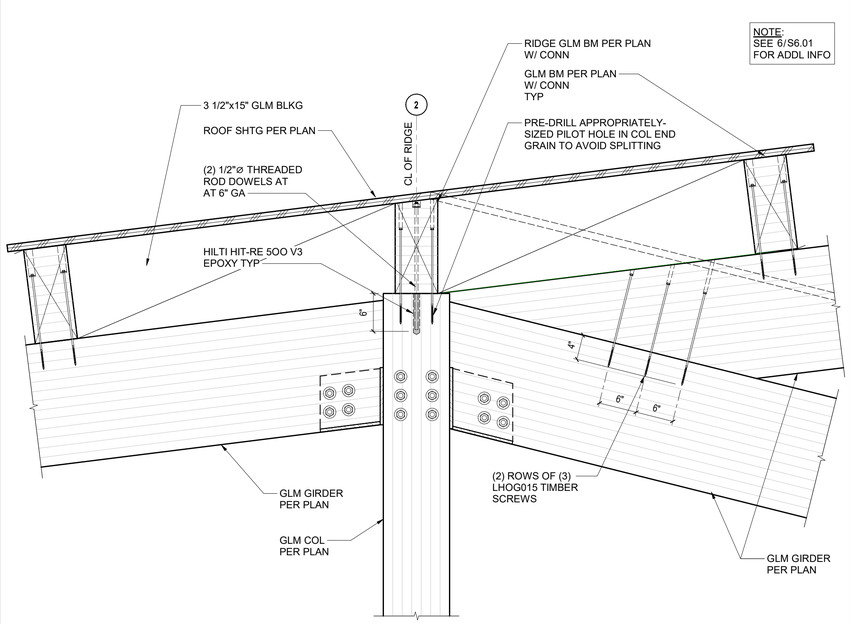
1 / S6.01 **SECTION**
1" = 1'-0"



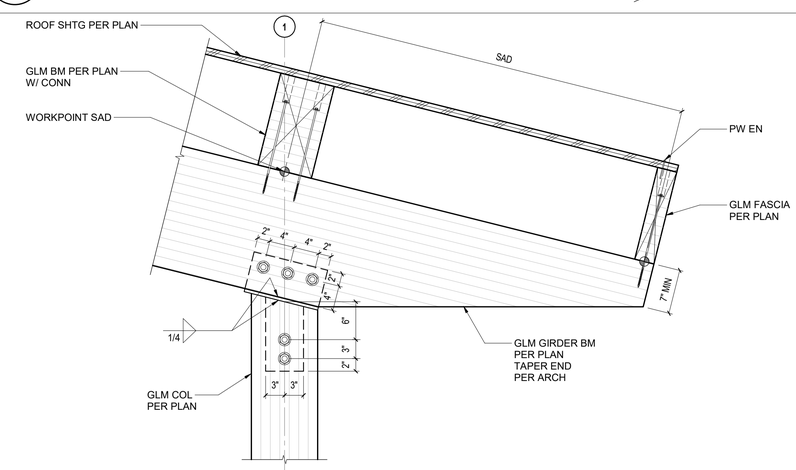
2 / S6.01 **SECTION**
1" = 1'-0"



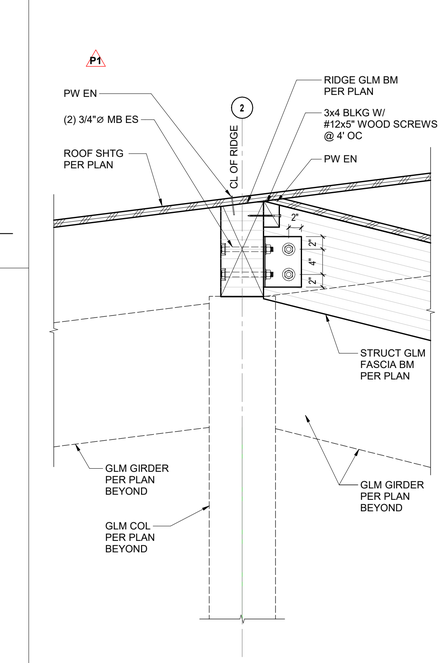
11 / S6.01 **SECTION AT HIGH ROOF FASCIA**
1" = 1'-0"



16 / S6.01 **ROOF TRANSITION DETAIL AT GRID 2 AND E**
1" = 1'-0"



12 / S6.01 **SECTION AT LOW ROOF FASCIA**
1" = 1'-0"



4 / S6.01 **SECTION**
1" = 1'-0"

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MOSSWOOD COMMUNITY CENTER

NOTE: SEE 6/S6.01 FOR ADDL INFO

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Drawn by: AI, AP, JML, KF
Designed by: JML, KF
Checked by: JML, KF

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

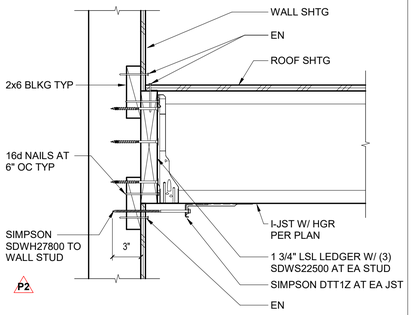
Drawing Title
ROOF FRAMING DETAILS

Drawing No.
S6.01

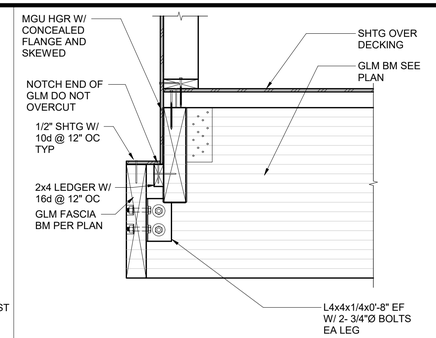
Sheet No.

MOSSWOOD COMMUNITY CENTER

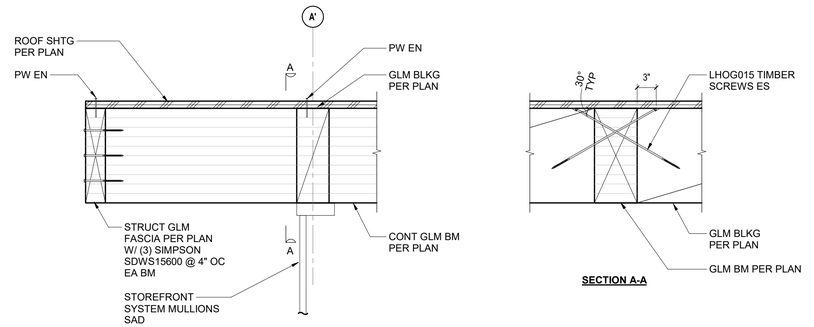
PLOT DATE: 7/14/2022 10:09:30 AM
DRAWING NAME: BIM 360://Mosswood/IDA18113_Mosswood_Struct_P21.rvt
LMSs PROJECT NUMBER: 1902



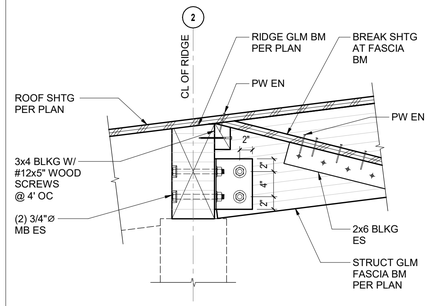
14 S6.02 **ENLARGED LEDGER DETAIL**
1 1/2" = 1'-0"



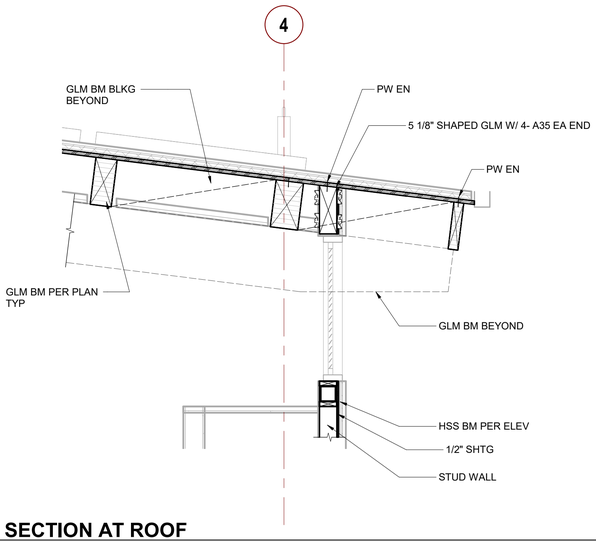
4 S6.02 **SECTION AT LEDGER**
1" = 1'-0"



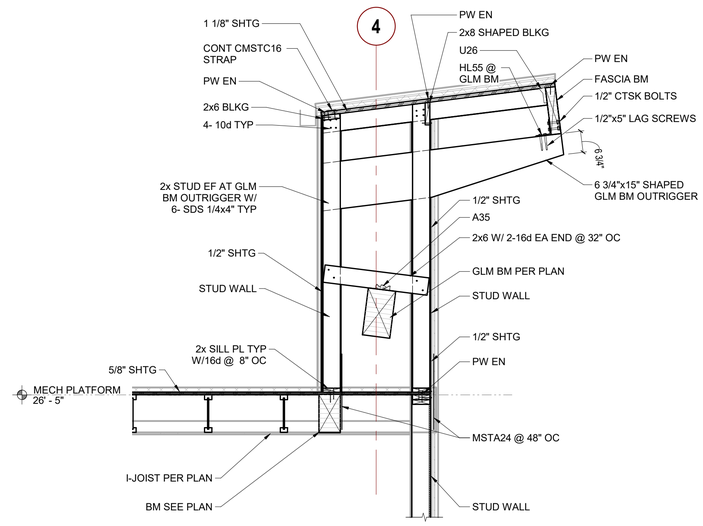
9 S6.02 **ROOF STOREFRONT SECTION**
1" = 1'-0"



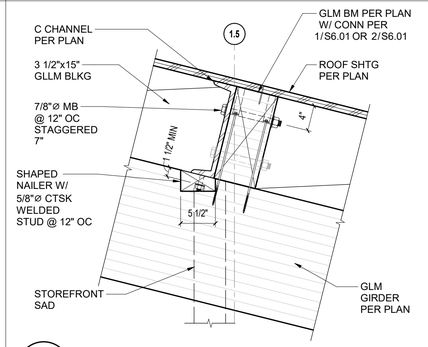
1 S6.02 **SECTION AT ROOF**
1" = 1'-0"



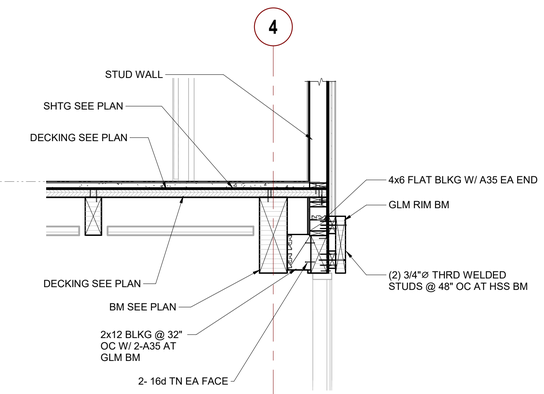
15 S6.02 **SECTION AT ROOF**
1/2" = 1'-0"



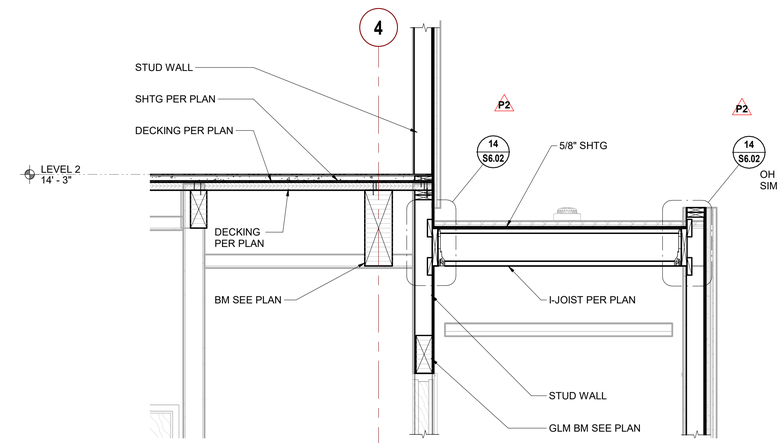
11 S6.02 **SECTION AT ROOF**
1/2" = 1'-0"



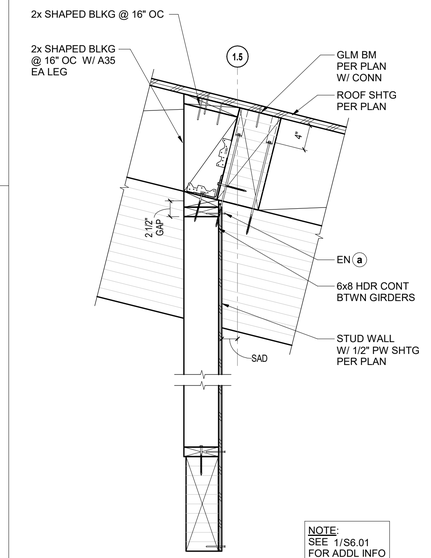
2 S6.02 **ROOF STOREFRONT SECTION**
1" = 1'-0"



16 S6.02 **SECTION AT FLOOR**
1/2" = 1'-0"



12 S6.02 **SECTION AT LOW ROOF**
1/2" = 1'-0"



3 S6.02 **SECTION AT EXTERIOR WALL**
1" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

REGISTERED PROFESSIONAL ENGINEER JASON M. TEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

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Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
FRAMING DETAILS

Drawing No.
S6.02

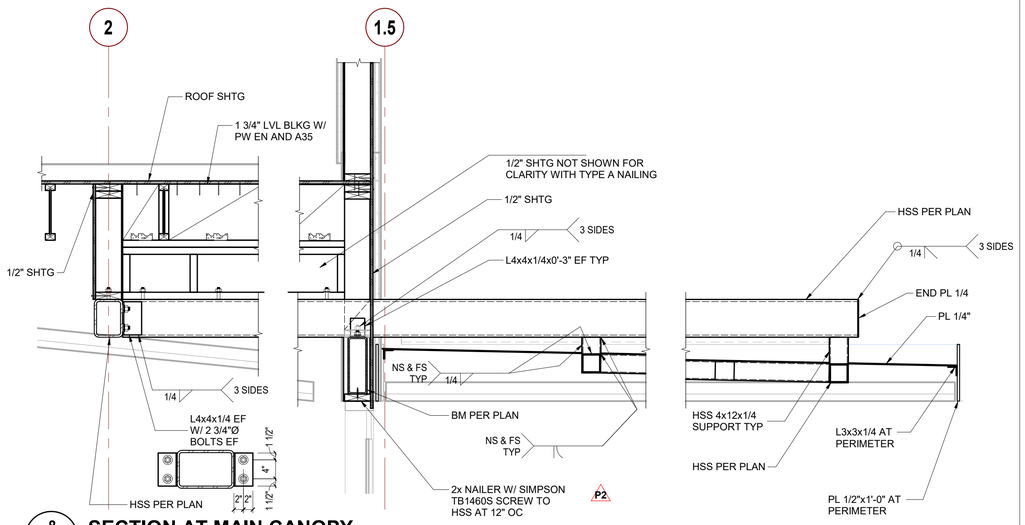
Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSA PROJECT NUMBER: 1902

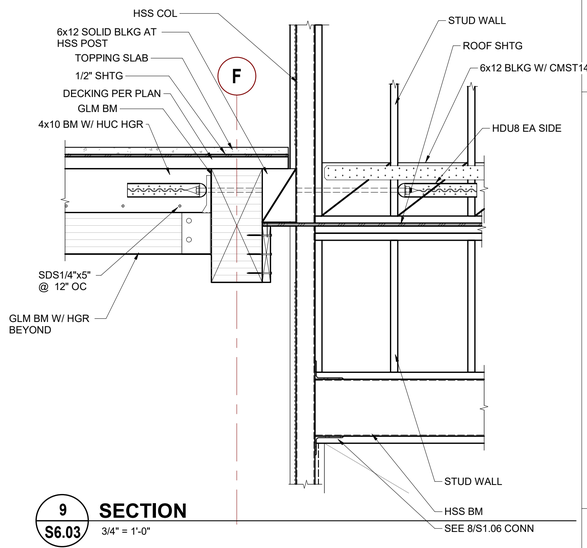
PLOT DATE: 7/14/2022 10:09:32 AM

DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt

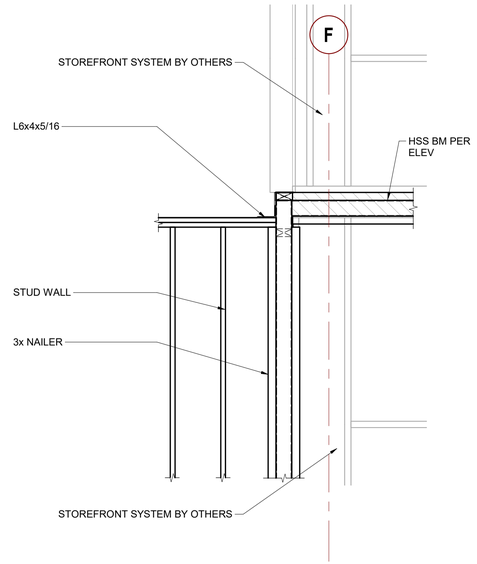


8 S6.03 **SECTION AT MAIN CANOPY**
3/4" = 1'-0"

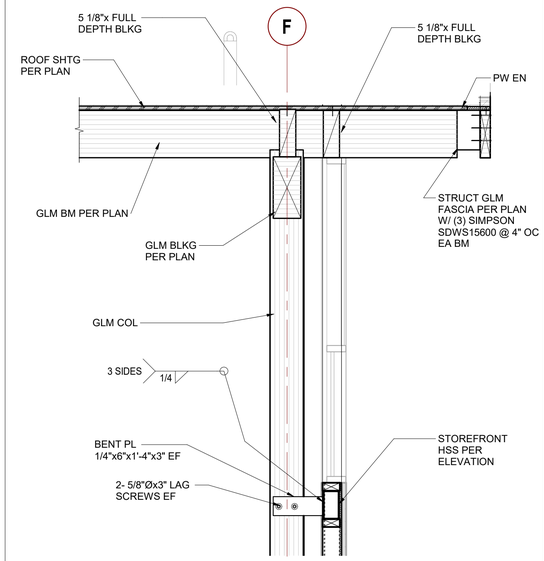
P1



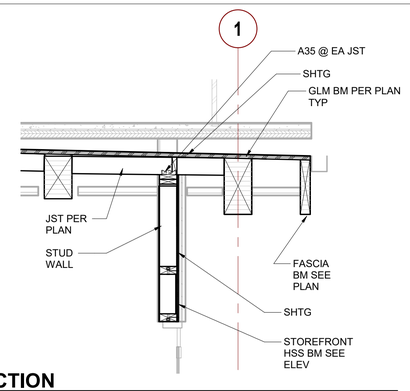
9 S6.03 **SECTION**
3/4" = 1'-0"



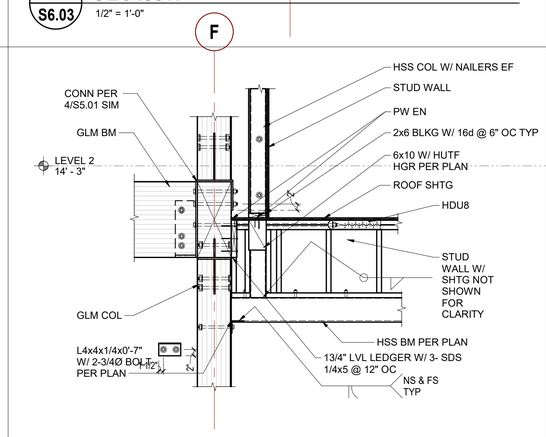
3 S6.03 **ELEVATION VIEW**
1/2" = 1'-0"



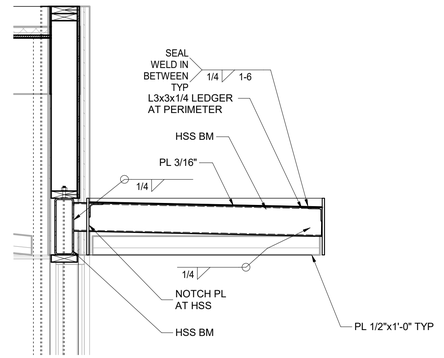
1 S6.03 **SECTION**
1/2" = 1'-0"



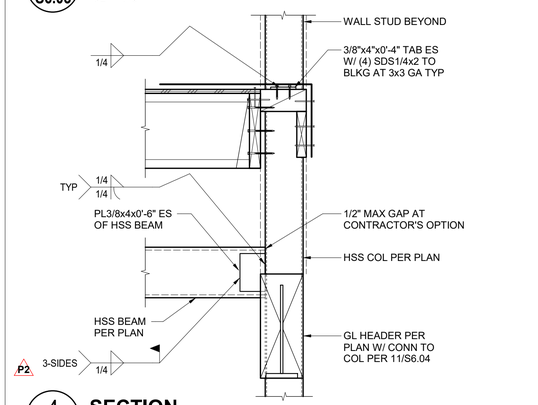
6 S6.03 **SECTION**
1/2" = 1'-0"



2 S6.03 **SECTION**
1/2" = 1'-0"



7 S6.03 **SECTION AT CANOPY**
3/4" = 1'-0"



4 S6.03 **SECTION**
1" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

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Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
FRAMING DETAILS

Drawing No.
S6.03

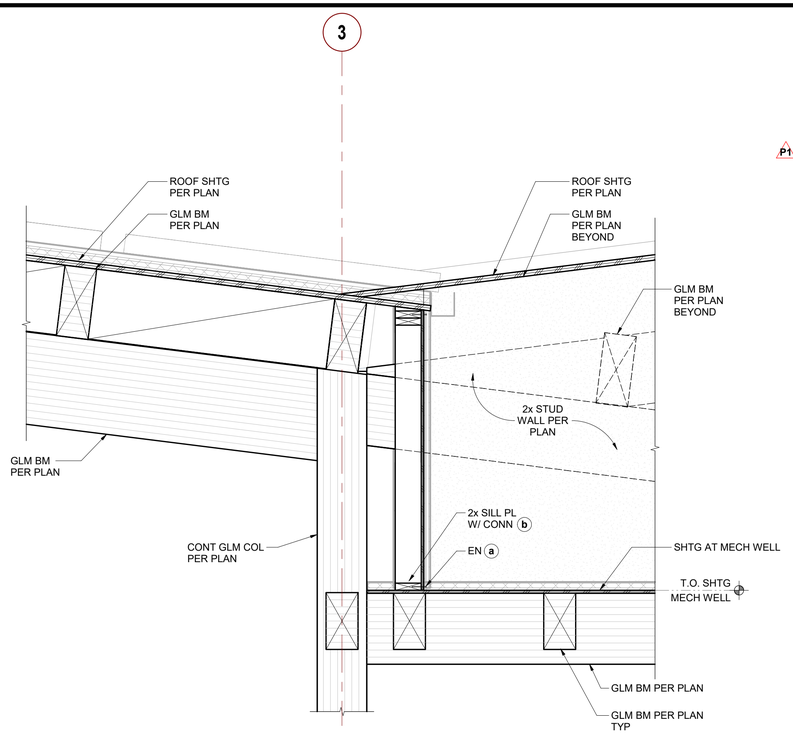
Sheet No.

MOSSWOOD COMMUNITY CENTER

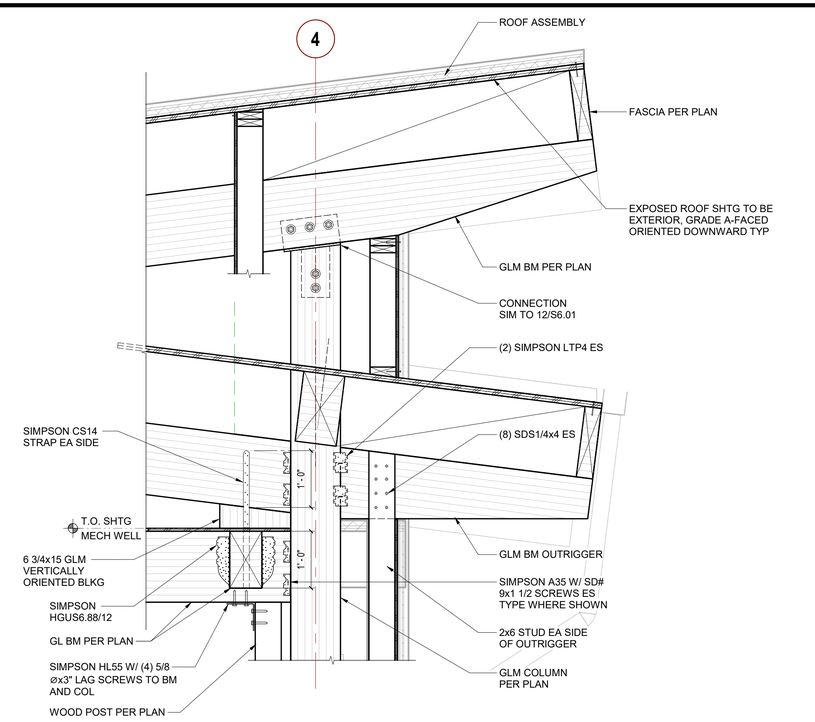
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 10:00:34 AM

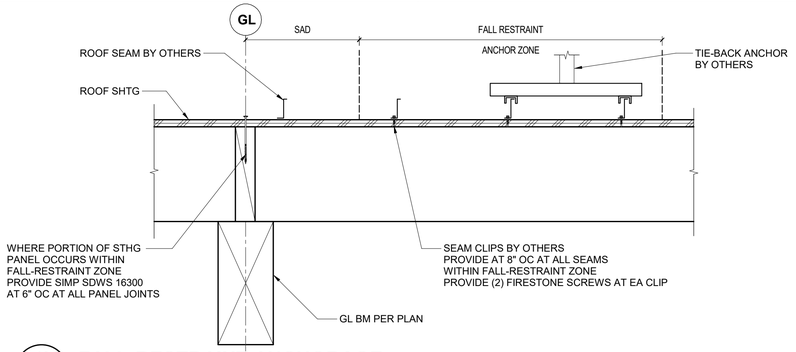
DRAWING NAME: BIM 360://Mosswood/DA18115_Mosswood_Struct_R21.rvt



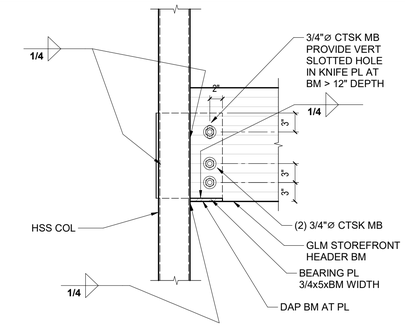
14 S6.04 **SECTION**
3/4" = 1'-0"



6 S6.04 **SECTION**
3/4" = 1'-0"



19 S6.04 **FALL-RESTRAINT ANCHORAGE**
1" = 1'-0"



11 S6.04 **SECTION AT STOREFRONT HEADER**
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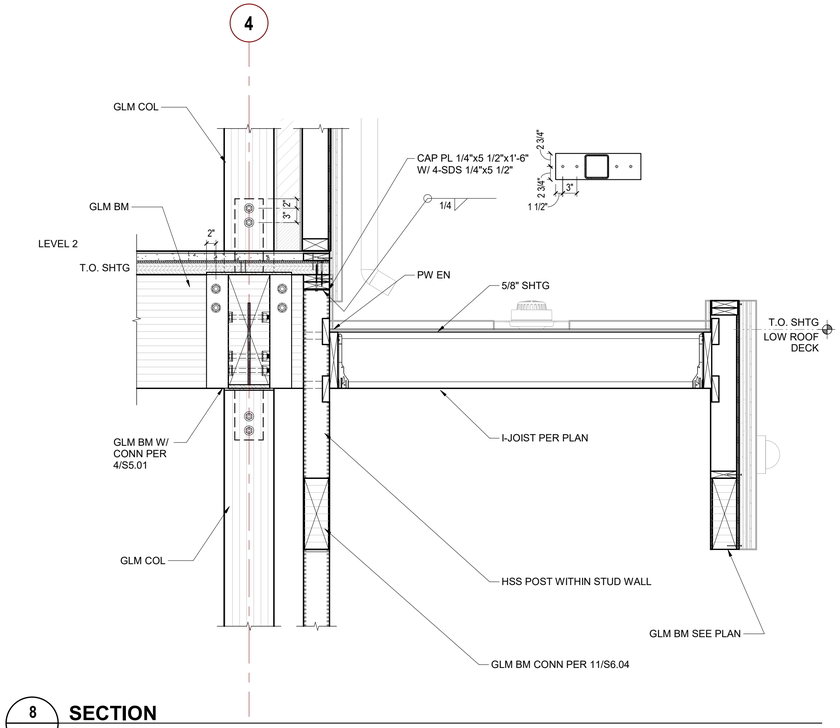
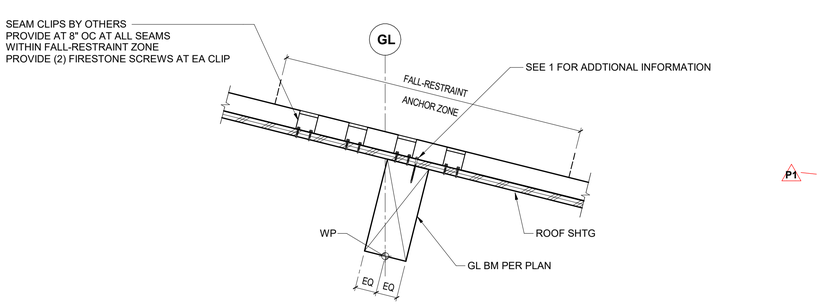
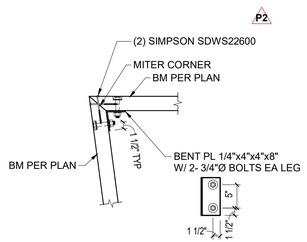


8 S6.04 **SECTION**
3/4" = 1'-0"



20 S6.04 **FALL-RESTRAINT ANCHOR**
1" = 1'-0"



12 S6.04 **PLAN AT CORNER**
3/4" = 1'-0"

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Drawn by: Author
Designed by: Designer
Checked by: Checker

REGISTERED PROFESSIONAL ENGINEER JASON M. TEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

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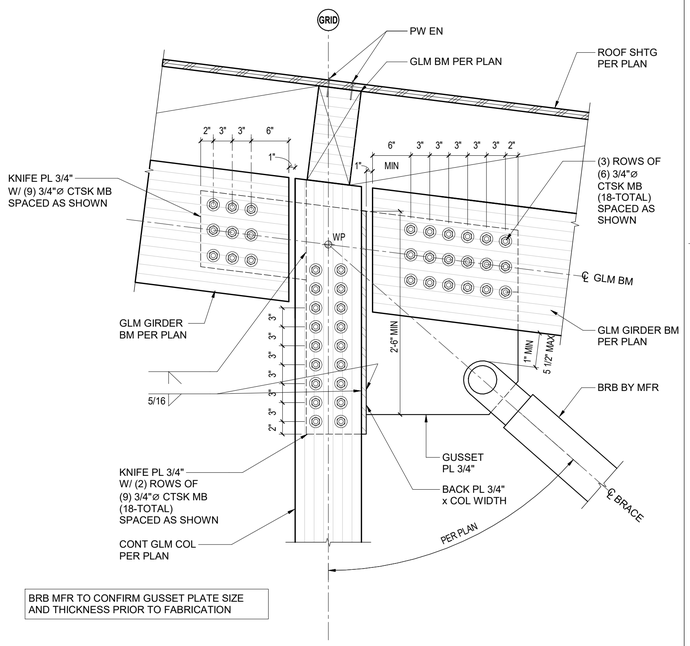
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
FRAMING DETAILS

Drawing No.
S6.04
Sheet No.

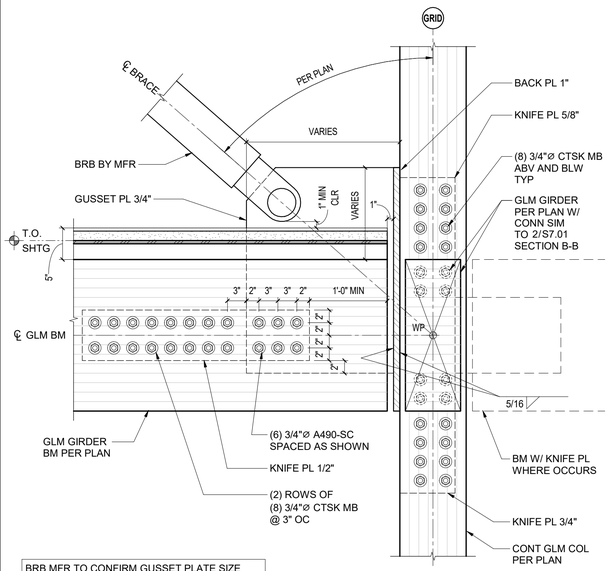
MOSSWOOD COMMUNITY CENTER
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:09:35 AM
DRAWING NAME: BIM 360://Mosswood/DA1815_Mosswood_Struct_R21.rvt



BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION

5 S7.01 BRB CONNECTION

1" = 1'-0"

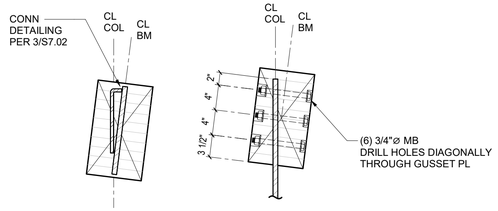


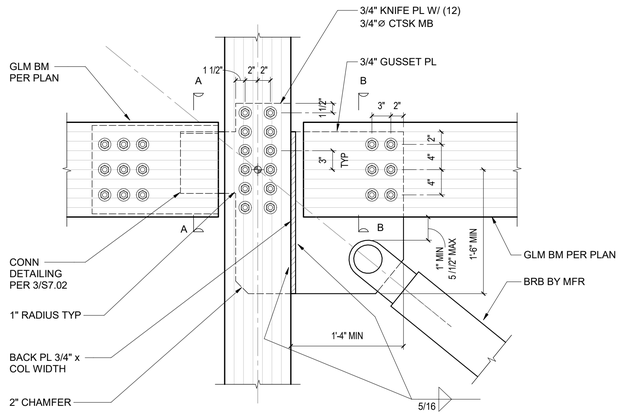
BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION

SEE 2/S7.01 FOR ADDL INFO

3 S7.01 BRB CONNECTION

1" = 1'-0"



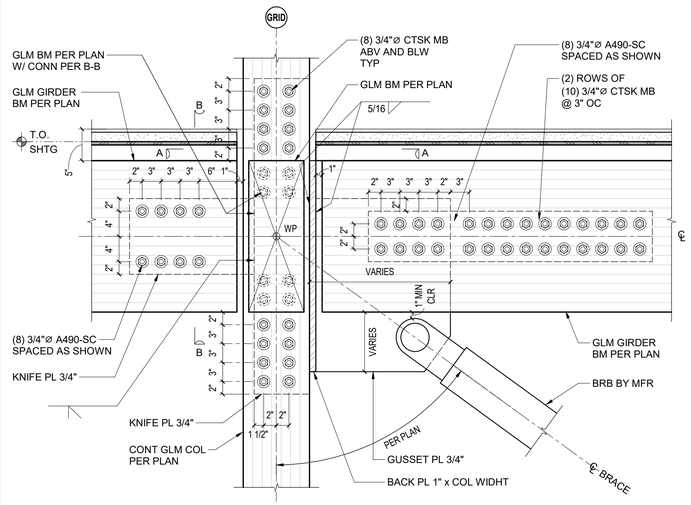


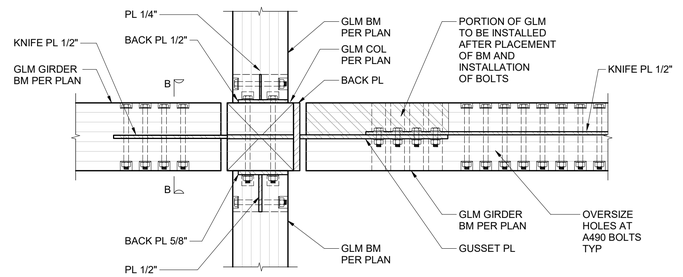
P1

4 S7.01 BRB CONNECTION AT ROOF

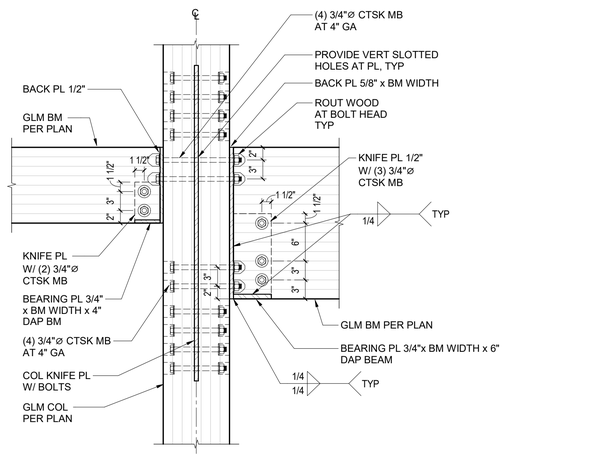
1" = 1'-0"

BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION





SECTION A-A



SECTION B-B

2 S7.01 BRB CONNECTION

1" = 1'-0"

CITY OF OAKLAND
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Drawn by: Author
Designed by: Designer
Checked by: Checker

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

No.	DATE	ISSUE DESCRIPTION
	06/25/2021	BUILDING PERMIT SUBMISSION
	08/20/2021	95% CD
P1	03/17/2022	PERMIT REVISIONS
P2	07/15/2022	PERMIT REVISIONS
	07/15/2022	100% CD / BID

Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

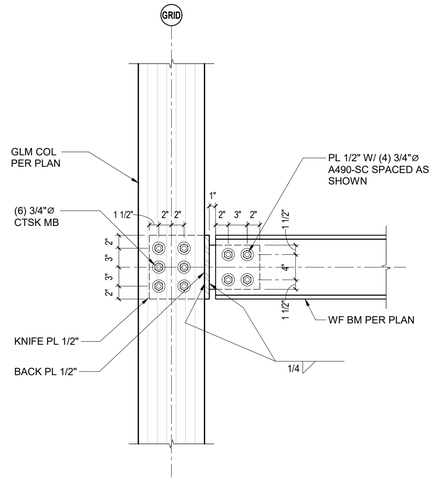
Drawing Title
BRB DETAILS

Drawing No.
S7.01

Sheet No.

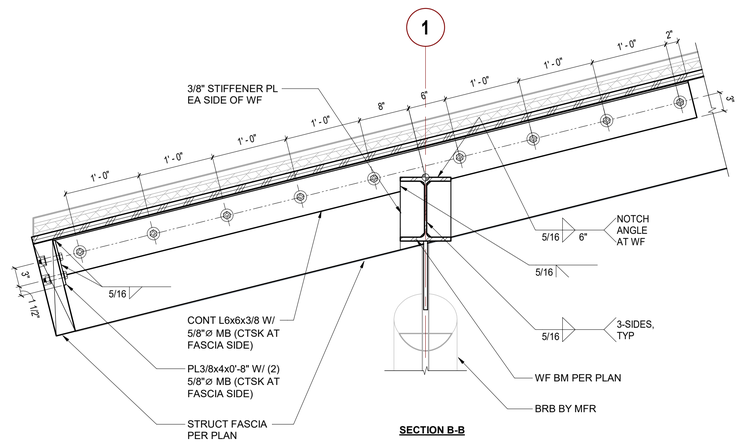
BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION

SEE 2/S7.01 FOR ADDL INFO



5 S7.02 BRB CONNECTION

1" = 1'-0"

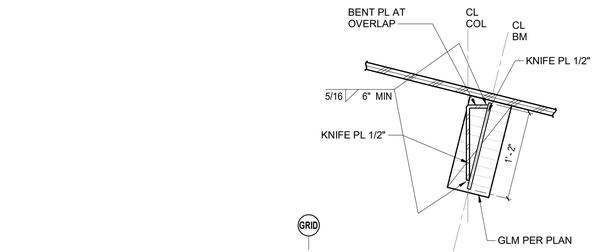


SECTION B-B

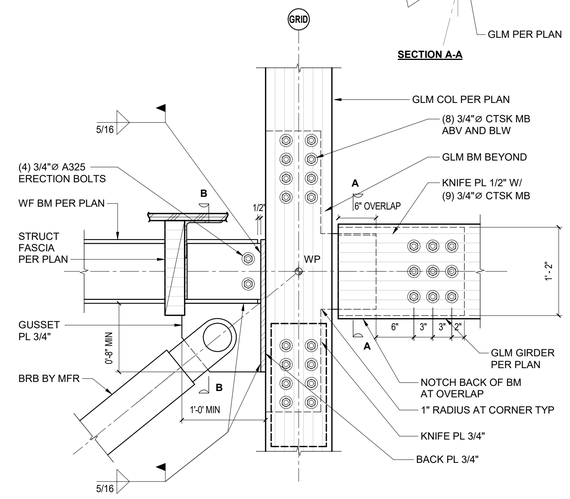
BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION

SEE 2/S7.01 FOR ADDL INFO

P1



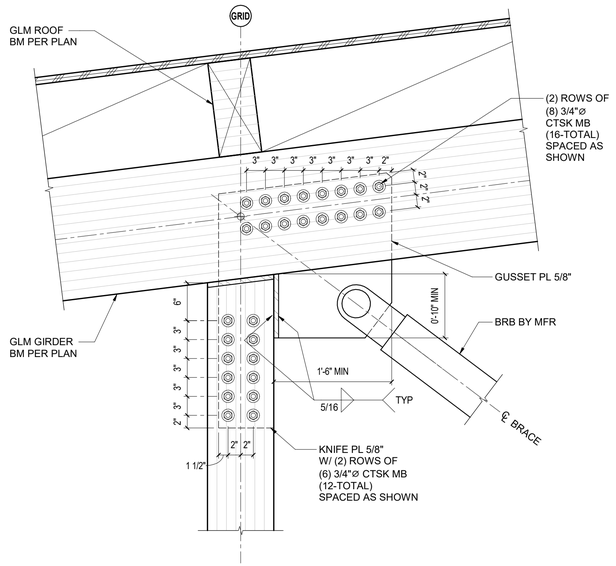
SECTION A-A



3 S7.02 BRB CONNECTION

1" = 1'-0"

BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION



6 S7.02 BRB CONNECTION

1" = 1'-0"

BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION

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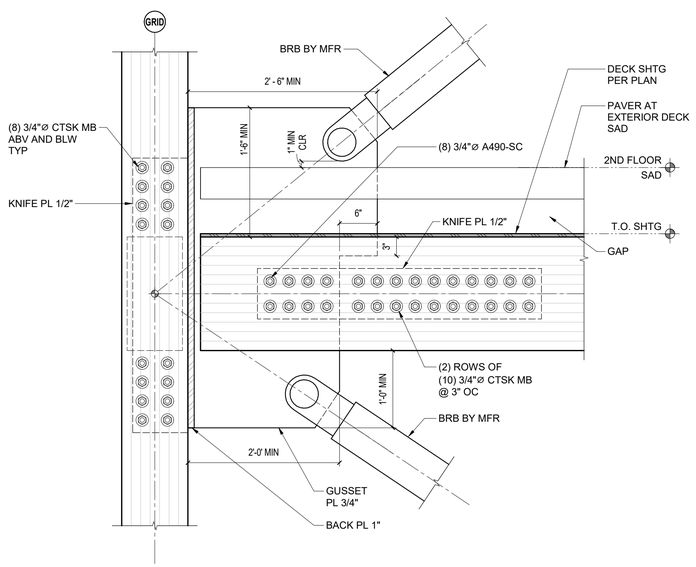
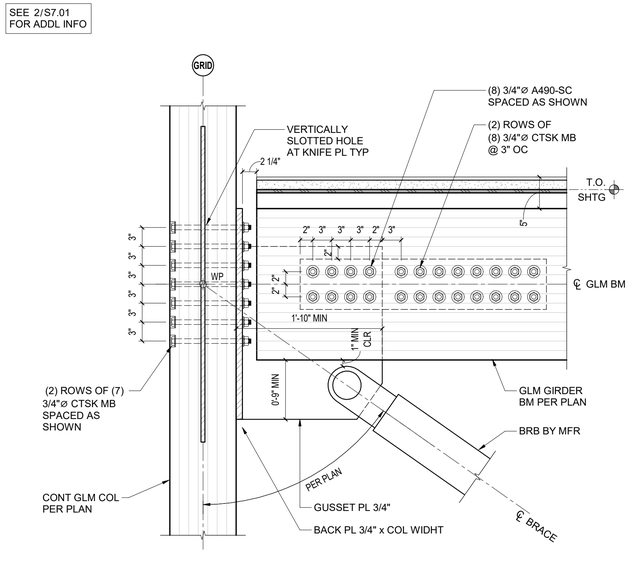


4 S7.02 BRB CONNECTION

1" = 1'-0"

BRB MFR TO CONFIRM GUSSET PLATE SIZE AND THICKNESS PRIOR TO FABRICATION

SEE 2/S7.01 FOR ADDL INFO



2 S7.02 BRB CONNECTION

1" = 1'-0"

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	07/15/2022	100% CD / BID

Project Information

3612 WEBSTER ST., OAKLAND CA 94609

18115

Drawing Title

BRB DETAILS

Drawing No.

S7.02

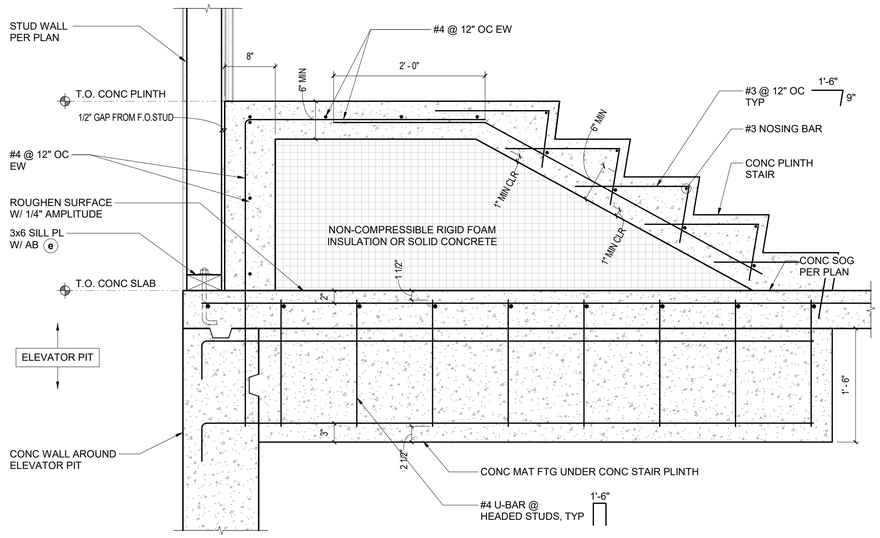
Sheet No.

MOSSWOOD COMMUNITY CENTER

LMSA PROJECT NUMBER: 1902

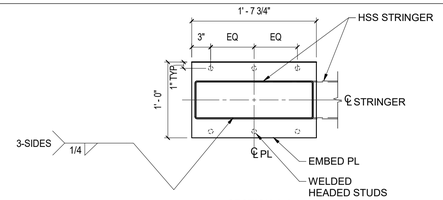
PLOT DATE: 7/14/2022 10:09:38 AM

DRAWING NAME: BIM 360:../Mosswood/DA18115_Mosswood_Struct_R21.rvt

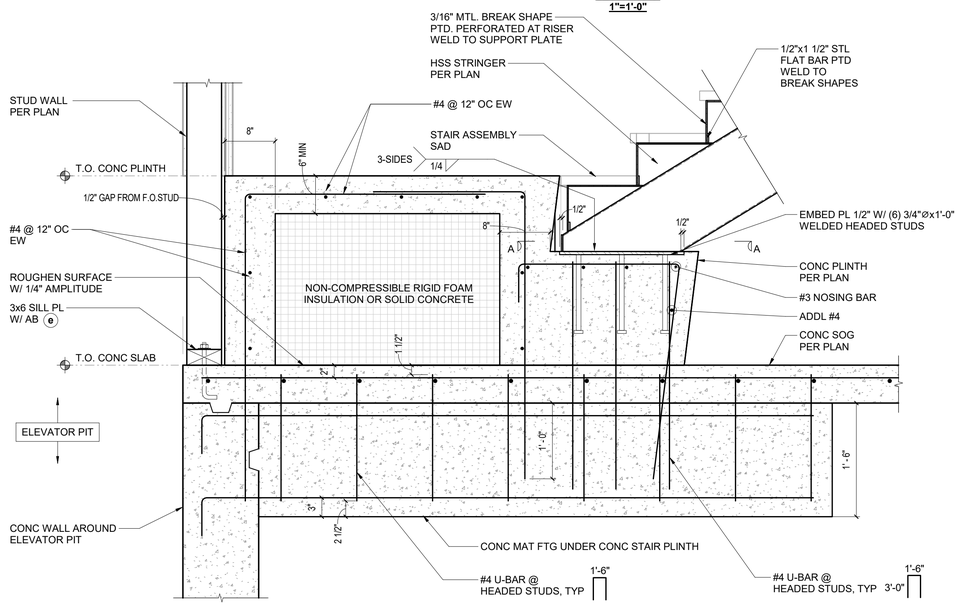


3 S9.01 **CONCRETE PLINTH STAIR DETAIL**

1" = 1'-0"

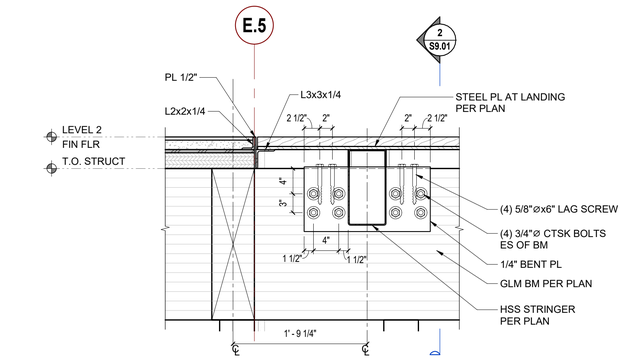


SECTION A-A
1"=1'-0"



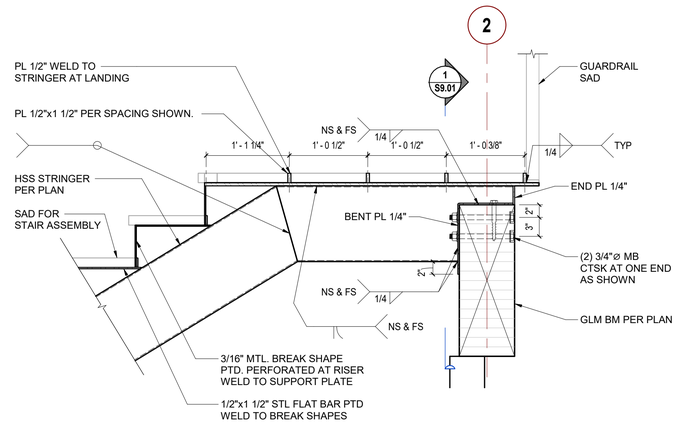
4 S9.01 **STAIR STRINGER AT BASE**

1" = 1'-0"



1 S9.01 **STAIR STINGER AT TOP LANDING**

1" = 1'-0"



2 S9.01 **STAIR STRINGER TO TOP LANDING**

1" = 1'-0"

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Project Information
3612 WEBSTER ST., OAKLAND CA 94609
18115

Drawing Title
STAIR 1 DETAILS

Drawing No.
S9.01
Sheet No.

MOSSWOOD COMMUNITY CENTER
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 10:09:40 AM
DRAWING NAME: BIM 360://Mosswood/DA18113_Mosswood_Struct_P21.rvt

MECHANICAL LEGEND

DUCT

- OUTSIDE AIR (OA) SUPPLY AIR (SA)
- RETURN AIR (RA) TRANSFER AIR (TA)
- EXHAUST AIR (EA) RELIEF AIR
- DUCT ELBOW WITH VANES
- MITERED DUCT ELBOW
- RADIUS DUCT ELBOW
- FLEXIBLE DUCT
- SUPPLY AIR TERMINAL
- RETURN AIR TERMINAL
- EXHAUST AIR TERMINAL
- LINEAR DIFFUSER
- LOUVER
- U/C — DOOR UNDERCUT
- BELLMOUTH
- 24"x16" 16"ø — RECTANGULAR TO ROUND TRANSITION
- 24"ø 16"ø — ROUND TO ROUND TRANSITION
- 24"x16" 16"x16" — RECTANGULAR TO RECTANGULAR TRANSITION
- RECTANGULAR FROM RECTANGULAR DUCT TAKE OFF
- ROUND FROM ROUND DUCT TAKE OFF
- ROUND FROM RECTANGULAR DUCT TAKE OFF
- 20"x12" EA (L) — DUCT WITH LINING (CLEAR INSIDE DUCT LINING DIMENSIONS)
- 20"x12" SA — DUCT WITH INSULATION (CLEAR INSIDE DUCT DIMENSIONS)
- MOTORIZED DAMPERS (OPPOSED AND PARALLEL BLADE)
- BALANCING DAMPER
- FIRE SMOKE DAMPER

SYMBOLS AND ANNOTATION

- REVISION CLOUD AND DELTA
- CH / 1 — EQUIPMENT TYPE / EQUIPMENT NUMBER
- AIR TERMINAL TAG: EQUIPMENT TYPE, NECK SIZE (RECT.), A-24x24-120 — CFM, A-12ø-120 — CFM, NECK SIZE (RECT.), EQUIPMENT TYPE
- 1 / M6.02 — DETAIL DESIGNATION / SHEET NUMBER
- 20"x12" EA (L) — DUCT FREE AREA DIMENSIONS / DUCT SYSTEM / LINING TYPE (IF APPLICABLE)
- POINT OF CONNECTION
- POINT OF DISCONNECTION

EQUIPMENT (PLAN)

- PUMP
- EXHAUST FAN
- EXHAUST FAN
- SOUND ATTENUATOR
- VENTILATOR
- FAN COIL UNIT
- FAN POWERED AIR TERMINAL
- FAN POWERED AIR TERMINAL WITH COIL
- FAN POWERED AIR TERMINAL WITH COIL AND PLENUM BOX

VALVES AND HYDRONIC ACCESSORIES

- PRESSURE REDUCING VALVE
- PRESSURE REDUCING VALVE GAS
- PRESSURE REDUCING VALVE - LINE FEED
- CIRCUIT SETTER
- BALL VALVE
- BUTTERFLY VALVE
- BUTTERFLY VALVE W/OPERATOR
- CHECK VALVE
- CIRCUIT SETTER
- DRAIN VALVE
- FLOAT VALVE
- T&P RELIEF VALVE
- THERMOSTATIC MIXING VALVE
- VALVE

SHUT-OFF VALVE TYPE
- BALL VALVE 2 1/2" AND BELOW
- BUTTERFLY VALVE 3" AND ABOVE

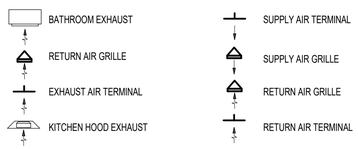
- WYE STRAINER
- WAY STRAINER WITH BLOW OFF
- MANUAL AIR VALVE
- AUTOMATIC AIR VENT
- PLUG VALVE
- PETES PLUG
- TEMP GUAGE
- PRESSURE GUAGE
- UNION
- FLEX CONNECTOR
- VACUUM BREAKER

AIRSIDE EQUIPMENT (DIAGRAMS)

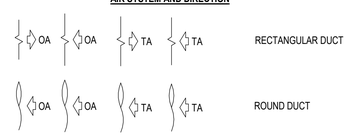
AIR SIDE EQUIPMENT

AIR TERMINAL UNITS

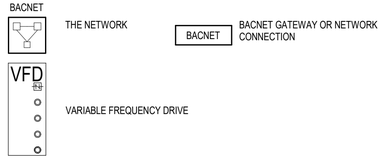
AIR TERMINALS (DIFFUSERS, REGISTERS, GRILLES)



AIR SYSTEM AND DIRECTION



ELECTRICAL OR NETWORK EQUIPMENT (DIAGRAMS)



PIPE LINE DESIGNATIONS

- HHWS — HEATING WATER SUPPLY
- HHWR — HEATING WATER RETURN
- CD — CONDENSATE DRAIN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN

PIPE

- PIPE DROP
- PIPE RISE
- PIPE BRANCH RISE
- PIPE BRANCH DROP
- PIPE BRANCH TEE
- PIPE TEE RISE
- PIPE TEE DROP
- PIPE GUIDE
- PIPE ANCHOR
- CAPPED PIPE

ROOM SENSORS (PLAN)

- T (WMS) — THERMOSTAT (WITH VAV BOX REFERENCE)
- T — TEMPERATURE SENSOR
- CO2 — CO2 SENSOR
- RH — HUMIDISTAT
- RH — RH SENSOR
- DP — DEWPOINT SENSOR
- T (SOM) — TEMPERATURE SENSOR IN SLAB
- SP — STATIC PRESSURE SENSOR
- CO — CARBON MONOXIDE SENSOR
- OC — OCCUPANCY SENSOR

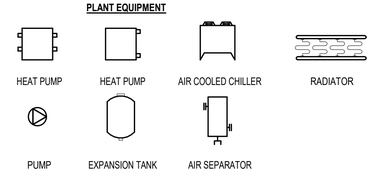
CONTROL VALVES & ACTUATORS

- M — 2-WAY CONTROL VALVE, 2-POS
- M — 2-WAY CONTROL VALVE, MODULATING
- S — SOLENOID VALVE
- M — 3-WAY CONTROL VALVE, 2-POS
- M — 3-WAY CONTROL VALVE, MODULATING
- M — MOTORIZED ACTUATOR, 2 POSITION
- M — MOTORIZED ACTUATOR, MODULATING
- T — THERMOSTATIC ACTUATOR

SENSORS

HYDRONIC EQUIPMENT (DIAGRAMS)

PLANT EQUIPMENT



MECHANICAL ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
ARCH	ARCHITECT/ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AW	ACID WASTE
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BRD	BAROMETRIC RELIEF DAMPER
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CDW	CONDENSER WATER
CFM	CUBIC FEET PER MINUTE
CHW	CHILLED WATER
CLG	CEILING
CBC	CALIFORNIA BUILDING CODE
CH	CHILLER
CI	CAST IRON
CT	COOLING TOWER
CU	COPPER
CL	CENTERLINE
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUATION
CW	COLD WATER
DB	DRY BULB
DH	DEHUMIDIFIER
DIM	DIMENSION
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
(ER)	EXISTING TO BE RELOCATED
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRICAL
ET	EXPANSION TANK
EW	EMERGENCY EYEWASH
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
(F)	FUTURE
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FSD	COMBINATION FIRE SMOKE DAMPER WITH ACCESS
FT	FEET
GE	GREASE EXHAUST
GPM	GALLONS PER MINUTE
GR	GRADE
GV	GRAVITY VENTILATOR
HC	HEATING COIL
HHW	HEATING HOT WATER
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IN.	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LB	POUND WEIGHT
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
(N)	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NO	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OPNG	OPENING
P	PUMP
PF	POT FEEDER
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI - ABSOLUTE
PSIG	PSI - GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
(R)	REMOVE
RA	RETURN AIR
RAH	RECIRC AIR HANDLER
RC	REHEAT COIL
REF	ROOF EXHAUST FAN, REFRIGERANT
SA	SUPPLY AIR / SOUND ATTENUATOR
SC	SCRUBBER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCHD	SCHEDULE
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SMEF	SMOKE EXHAUST FAN
SPEC(S)	SPECIFICATION(S)
SS	STAINLESS STEEL
ST	SOUND ATTENUATOR TRAP
STD(S)	STANDARD(S)
TA	TRANSFER AIR
TE	TEMPERATURE ELEMENT
TEMP	TEMPERATURE
TI	TEMPERATURE INDICATOR
TOS	TOP OF STEEL
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAK
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
VVR	VARIABLE VOLUME UNIT WITH REHEAT
W	WIDTH
W/O	WITHOUT
WB	WET BULB
WH	WATER HEATER
WLD	WELDED
WT	WEIGHT

SHEET LIST - MECHANICAL

NUMBER	NAME
M0.1	MECHANICAL L&A, AND SHEET LIST
M0.2	GENERAL NOTES
M0.3	MECHANICAL SCHEDULE
M0.4	MECHANICAL SCHEDULE
M0.5	MECHANICAL SCHEDULE
M0.6	MECHANICAL SCHEDULE
M0.7	TITLE 24 - FORMS
M0.8	TITLE 24 - FORMS
M0.9	TITLE 24 - FORMS
M0.10	TITLE 24 - FORMS
M2.1	MECHANICAL FIRST FLOOR PLAN - PHASE 1
M2.2	MECHANICAL SECOND FLOOR PLAN - PHASE 1
M2.3	MECHANICAL ROOF PLAN - PHASE 1
M3.1	HYDRONIC FIRST FLOOR PLAN - PHASE 1
M3.2	HYDRONIC SECOND FLOOR PLAN - PHASE 1
M4.1	MECHANICAL ENLARGED PLANS - KITCHEN
M4.2	MECHANICAL ENLARGED PLANS - LOWER MECH ROOF
M4.3	MECHANICAL ENLARGED PLAN - UPPER MECH ROOF
M4.4	MECHANICAL 3D VIEW - GREASE DUCT SYSTEM
M5.1	MECHANICAL DIAGRAMS - HYDRONIC
M5.2	MECHANICAL DIAGRAMS - AIR
M6.1	MECHANICAL DETAILS
M6.2	MECHANICAL DETAILS
M6.3	MECHANICAL DETAILS
M6.4	MECHANICAL DETAILS
M6.5	MECHANICAL DETAILS
M7.0	BUILDING AUTOMATION LEGEND, ABBREV. & GENERAL NOTES
M7.1	MECHANICAL CONTROLS
M7.2	MECHANICAL CONTROLS
M7.3	MECHANICAL CONTROLS
Grand total: 30	

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MOSSWOOD COMMUNITY CENTER - PHASE 1

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Drawn by: Author
Designed by: Designer
Checked by: Checker

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P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
MECHANICAL L&A, AND SHEET LIST

Drawing No.
M0.1
Sheet No.

LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:44:47 PM

DELEGATED DESIGN

A. DELEGATED DESIGN ELEMENTS ARE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ENGINEERED DOCUMENTATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

B. REFER TO SPECIFICATION FOR DELEGATED DESIGN DOCUMENTATION AND SUBMISSION REQUIREMENTS.

C. ALL DELEGATED DESIGN ELEMENTS SHALL BE PREPARED UNDER THE DIRECTION OF AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA.

D. DELEGATED DESIGN ELEMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING, REFER TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND SUBMISSION REQUIREMENTS:

1. DESIGN SUPPORTS AND BRACING FOR DUCTWORK SYSTEMS AND DIFFUSERS CAPABLE OF SUPPORTING THE COMBINED WEIGHT OF ALL DUCTWORK AND DUCTWORK COMPONENTS.
2. DESIGN HOUSEKEEPING PADS AND SUPPORT OF EQUIPMENT ATTACHED TO PAD TO WITHSTAND SEISMIC FORCES.
3. DESIGN SUPPORTS FOR WALL MOUNTED MECHANICAL EQUIPMENT.
4. DESIGN OF REFRIGERANT PIPING SYSTEM, INCLUDING PIPE LENGTHS, SIZING, AND ACCESSORIES.

CALIFORNIA GREEN NOTES:

1. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST , WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN SECTION: 5.504.3).
2. IN MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN SECTION: 5.504.5.3)
3. INSTALLATIONS OF HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFCs) AND SHALL NOT CONTAIN HALONS (SECTION: 5.508.1).
4. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR. TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

CALIFORNIA CODES AND STANDARDS

1. 2019 CALIFORNIA BUILDING CODE
2. 2019 CALIFORNIA ELECTRICAL CODE
3. 2019 CALIFORNIA MECHANICAL CODE
4. 2019 CALIFORNIA PLUMBING CODE
5. 2019 CALIFORNIA ENERGY CODE
6. 2019 CALIFORNIA FIRE CODE
7. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

MECHANICAL GENERAL NOTES

1. EXACT LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES ARE DETAILED ON THE ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS.
2. EXACT LOCATION OF ALL ROOF AND STRUCTURAL OPENINGS SHALL BE COORDINATED WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. MECHANICAL EQUIPMENT PLATFORMS AND ROOF CURBS SHALL BE AS INDICATED ON THE STRUCTURAL PLANS. THE CONTRACTOR SHALL COORDINATE EXACT SIZES OF REQUIRED OPENING AND SUPPORTS FOR FURNISHED EQUIPMENT. SEE ARCHITECTURAL PLANS FOR ROOFING AND FLASHING.
4. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS, WHETHER THEY ARE SHOWN ON THE DRAWINGS OR NOT. PROVIDE REMOTE DAMPER OPERATORS SUCH AS YOUNG'S REGULATOR OR EQUAL WHEN DAMPERS ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
5. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
6. ALL APPLIANCES AND PLUMBING VENTS SHALL TERMINATE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE OUTSIDE AIR INTAKES.
7. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. (SMACNA)
8. PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED.
9. FIRE STOP MATERIAL SHALL BE A UL-LISTED ASSEMBLY APPROVED BY THE FIRE MARSHAL.
10. DUCT/PIPE INSULATION AND DUCT LINING MATERIAL SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED. DUCT AND PIPE LABELS LOCATED IN THE CEILING SPACE USED A SA RETURN AIR PLENUM SHALL COMPLY WITH THE SAME REQUIREMENTS.
11. DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS ELBOWS OR OTHER ELEMENTS WHICH MAY BE REQUIRED. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION, WITH NO ADDITIONAL COST TO THE OWNER.
12. ALL SUPPLY AND EXHAUST AIR EQUIPMENT SHALL INCORPORATE DAMPERS THAT AUTOMATICALLY CLOSE DURING PERIODS OF NON-USE. THE DAMPERS SHALL BE EITHER MOTORIZED OR OF THE GRAVITY TYPE AS INDICATED ON DRAWINGS OR SPECIFIED.
13. DUCT SIZES INDICATED ON DRAWINGS REPRESENT NET INSIDE DIMENSIONS.
14. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE-DEVELOPED INDEX NOT GREATER THAN 50, WHEN TESTED AS A COMPOSITE PRODUCT PER TEST METHODS LISTED IN CHAPTER 6 OF THE CMC.
15. COMBUSTION AIR OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT SCREEN NOT SMALLER THAN 1/4 INCH MESH.
16. REFRIGERANT SERVICE PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS OR SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS BY AN ACCEPTABLE MEANS.
17. OUTDOOR AIR INTAKE OPENINGS SHALL BE COVERED WITH A SCREEN HAVING NOT LESS THAN 1/4-INCH OPENINGS AND NOT MORE THAN 1/2-INCH OPENINGS, UNLESS NOTED OTHERWISE.
18. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCTS AND OF THE RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM.

△ P1

19. HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS (INCLUDING HYDRONIC SYSTEMS) SHALL BE BALANCED IN ACCORDANCE WITH AN APPROVED METHODS PER SECTION 314.1 OF THE CALIFORNIA MECHANICAL CODE.
20. ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS SHALL BE INSTALLED, SEALED, AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 OF THE CMC.
21. SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (R-8 IF INSTALLED IN AN UNCONDITIONED SPACE) UNLESS DUCTS ARE IN CONDITIONED SPACE OR NOTED OTHERWISE.
22. THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 120.3 -A OF THE ENERGY EFFICIENCY STANDARDS.
23. THE MINIMUM RATE OF OUTDOOR AIR REQUIRED PER SECTION 120.1(B) 2 SHALL BE SUPPLIED TO EACH SPACE AT ALL TIME THE SPACE IS USUALLY OCCUPIED.
24. THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SEC. 120.1(B) 2, OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE ONE-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.
25. THE THERMOSTATIC CONTROLS FOR HVAC SYSTEMS SHALL MEET THE FOLLOWING REQUIREMENTS AS APPLICABLE:
    A. EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE AND MEETS THE FOLLOWING:
        1. EACH THERMOSTATIC CONTROL SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY ADJUSTMENT OR SELECTION OF SENSORS TO CONTROL:
            a. COMFORT HEATING DOWN TO 55°F OR LOWER.
            b. COMFORT COOLING UP TO 85°F OR HIGHER.
            c. BOTH HEATING AND COOLING, THE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.
26. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH STANDARDS LISTED IN CHAPTER 17 OF THE 2013 CALIFORNIA MECHANICAL CODE.
27. SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR FOR HEATING, COOLING, OR EVAPORATIVE COOLING SYSTEMS SHALL BE CONDUCTED THROUGH DUCT SYSTEMS CONSTRUCTED OF METAL AS SET FORTH IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD.
28. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2,000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF ACTIVATED BY SMOKE DETECTOR LOCATED IN THE MAIN SUPPLY-AIR DUCT. A SYSTEM MAY INCLUDE MORE THAN ONE PIECE OF AC UNIT WHICH SERVES A COMMON SPACE WITH AGGREGATE SUPPLY AIR OF MORE THAN 2,000 CFM.
29. HYDRONIC PIPING SHALL COMPLY WITH CHAPTER 12 PART I OF THE 2019 CALIFORNIA MECHANICAL CODE.
30. PRIOR TO PERMIT BEING FINALIZED, A COMPLETE REPORT OF THE TESTING AND ADJUSTING SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FACILITIES OPERATOR AND FORM TESTING AND ADJUSTING SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR.
31. PRIOR TO PERMIT BEING FINALIZED, A COMPLETE REPORT OF THE COMMISSIONING PROCESS SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FACILITIES OPERATOR, AND FORM VERIFICATION SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR.
32. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, PROVIDE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT, BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION.
33. PAINT ALL EXPOSED DUCTWORK, PIPING FIXTURES, EQUIPMENT, AND FITTINGS UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY FINISH/COLOR WITH ARCHITECT.

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Designed by: Designer
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	08/20/2021	95% CD / BUILDING PERMIT
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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
GENERAL NOTES

Drawing No.
M0.2

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:44:52 PM

MECHANICAL - AHU GENERAL INFORMATION SCHEDULE (COMPONENTS)

NOTES:
(1) PROVIDE WITH SEPARATE MIN OSA AND MODULATING OSA DAMPER SECTIONS.
(2) REFER TO SPECIFICATION FOR VIBRATION ISOLATION AND SEISMIC RESTRAINT REQUIREMENTS (230548).
(3) HEATING COIL TO BE SIZED TO MINIMIZE PRESSURE DROP AT PEAK COOLING AIR FLOW.
(4) FILTER PRESSURE DROP IS AT 100% AIR FLOW
(5) PROVIDE EPOXY COATED COILS.
(6) PROVIDE MOISTURE FILTER.
(7) PROVIDE INTAKE AND EXHAUST HOOD.
(8) PROVIDE MATCHED INSULATED ROOF CURB.
P1 (9) PROVIDE BYPASS DAMPER AT HEAT RECOVERY COILS

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	UNIT AIR FLOW (CFM)	OSA		FANS		COILS				FILTERS			ELECTRICAL					OPERATING WEIGHT (LB)	NOTES
							DESIGN OSA (CFM)	OSA DCV (CFM)	AHU SA FAN (Y/N)	AHU RA FAN (Y/N)	CC COIL (Y/N)	HC COIL (Y/N)	HR COIL 1 Y(/N)	HRC-2 Y/N	PREFILTER (Y/N)	FINAL FILTER (Y/N)	CARBON (Y/N)	VOLTAGE	PHASE	FREQUENCY (HZ)	120 V CONTROL Y/N	SINGLE POINT OF CONN Y/N		
AHU	1	DAIKIN	OAH030GDCM	UPPER MECH ROOF	COMMUNITY CENTER	11000	5,040	3,825	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	460	3	60	Yes	No	9700.00	

P1

MECHANICAL - AHU SCHEDULE (FAN - SUPPLY)

TYPE	EQUIPMENT NUMBER	AHU FAN SA CFM PER FAN (CFM)	AHU FAN SA NO OF FANS	AHU FAN SA TYPE	AHU FAN SA ESP (IN-WG)	AHU FAN SA TSP (IN-WG)	AHU FAN SA FAN RPM	AHU FAN SA MOTOR HP	AHU FAN SA BHP	CIRCUIT MOCP	CIRCUIT MCA	AHU FAN SA ECM YN	AHU FAN SA DRIVE
AHU	1	2750	4	PLUG	2.0	6.0	3230	5.00	3.13	20.00 A	17.40 A	Yes	DIRECT

MECHANICAL - AHU SCHEDULE (FAN - RETURN)

TYPE	EQUIPMENT NUMBER	AHU FAN RA CFM PER FAN (CFM)	AHU FAN RA NO OF FANS	AHU FAN RA TYPE	AHU FAN RA ESP (IN-WG)	AHU FAN RA TSP (IN-WG)	AHU FAN RA FAN RPM	AHU FAN RA MOTOR HP	AHU FAN RA BHP	CIRCUIT MOCP	CIRCUIT MCA	AHU FAN RA ECM RN	AHU FAN RA DRIVE
AHU	1	2333	3	PLUG	1.50	2.42	2870	3.00	1.32	15.00 A	9.80 A	Yes	DIRECT

MECHANICAL - AHU SCHEDULE (COILS - COOLING)

TYPE	EQUIPMENT NUMBER	COOLING COIL											
		CC DESIGN AIRFLOW (CFM)	SENSIBLE CAPACITY (BTU/H)	CC TOTAL CAPACITY (BTU/H)	CC EAT DB (°F)	CC EAT WB(°F)	CC LAT DB(°F)	CC LAT WB(°F)	APD [in wg]	CC EWT(°F)	CC LWT(°F)	CC (GPM)	CC WPD (FT WG)
AHU	1	11,000	346,115	384,572	89.0	66.0	60.0	55.4	0.46	50.0	60.0	76.0	3.2

MECHANICAL - AHU SCHEDULE (COILS - HEATING)

TYPE	EQUIPMENT NUMBER	HEATING COIL								
		HC DESIGN AIRFLOW (CFM)	HC CAPACITY (BTU/H)	HC EAT DB (°F)	HC LAT DB (°F)	HC APD (IN-WG)	HC EWT (°F)	HC LWT (°F)	HC (GPM)	HC WPD (FT WG)
AHU	1	11,000	367,030	49.5	80.0	0.26	125.0	115.0	73.4	8.70

P1

MECHANICAL - AHU SCHEDULE (COILS - HRC)

NOTES:
(1) PROVIDE HEAT RECOVERY COIL PUMP - 22 GPM AND 15 FT WG HEAD.
(2) PROVIDE RUNAROUND LOOP WITH EXPANSION TANK

TYPE	EQUIPMENT NUMBER	HEAT RECOVERY COIL (SUPPLY)											HEAT RECOVERY COIL (EXHAUST)										NOTES
		DESIGN AIRFLOW (CFM)	COOLING			HEATING			FINS PER INCH	NO. ROWS	APD (IN-WG)	WPD (FT-WG)	DESIGN AIRFLOW (CFM)	COOLING			HEATING			FINS PER INCH	NO. ROWS	APD (IN-WG)	WPD (FT-WG)	
			CAPACITY (MBH)	EAT (°F)	LAT (°F)	CAPACITY (MBH)	EAT (°F)	LAT (°F)						CAPACITY (MBH)	EAT (°F)	LAT (°F)	CAPACITY (MBH)	EAT (°F)	LAT (°F)					
AHU	1	11,000	60	89	84	147	36	48.2	8	4	0.37	1.3	7,000	55	75	82.2	140	72	55	6	6	0.21	3.2	1, 2

MECHANICAL - AHU SCHEDULE (FILTER - ALL)

TYPE	EQUIPMENT NUMBER	LOCATION	FILTERS												
			PREFILTER	FINAL FILTER	CARBON Y/N	PREFILTER					FINAL FILTER				
						MERV RATING	CLEAN APD (IN-WG)	DIRTY APD (IN-WG)	PD FOR FAN TSP AND AIR BALANCE (IN-WG)	PREFILTER DEPTH	MERV RATING	CLEAN APD (IN-WG)	DIRTY APD (IN-WG)	PD FOR FAN TSP AND AIR BALANCE (IN-WG)	FILTER DEPTH
AHU	1	UPPER MECH ROOF	Yes	Yes	No	8	0.1	1.0	0.6	8"	13	0.1	1.0	0.6	10"

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Drawing Title
MECHANICAL SCHEDULE

Drawing No.
M0.3

Sheet No.

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MECHANICAL - VAV SCHEDULE

NOTES:
(1) CONNECT TO DDC SYSTEM.
(2) MIN 5' - 0" ACOUSTIC LINED PLENUM AFTER COIL.
(3) A "-" IN THE NC COLUMNS REPRESENTS NC<20

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	INLET SIZE (IN)	AIRFLOW (CFM)			MAX PRESS. DROP (IN-WG)	HEATING COIL									HC NO OF ROWS	MAX NC DISCHARGE	MAX NC RADIATED	COIL PIPE CONN. (IN)	OPERATING WEIGHT (LB)	NOTES
							DESIGN AIRFLOW	MINIMUM AIRFLOW	DCV AIRFLOW (DCV)		TOTAL HEATING (BTU/H)	HEATING AIR FLOW (CFM)	EAT DB (°F)	LAT DB (°F)	EWT (°F)	LWT (°F)	WATER FLOW (GPM)	APD (IN-WG)	WPD (FT WG)						
VAV	101	PRICE	SDV	LEVEL 1	SOCIAL HALL 116	8"	650	70	220	0.5	7,055	325	60.0	80.0	110.0	100.0	1.4	0.21	0.3	2	26	-	3/4"	39	1, 2, 3
VAV	102	PRICE	SDV	LEVEL 1	SOCIAL HALL 116	12"	1,225	130	415	0.6											-	-		47	1, 2, 3
VAV	103	PRICE	SDV	LEVEL 1	SOCIAL HALL 116	8"	650	70	220	0.5	7,055	325	60.0	80.0	110.0	100.0	1.4	0.21	0.3	2	26	-	3/4"	39	1, 2, 3
VAV	104	PRICE	SDV	LEVEL 1	KITCHEN 112	12"	1,400	1,400	1400	0.6	15,190	1,400	60.0	70.0	110.0	100.0	3.0	0.27	0.3	2	-	-	3/4"	47	1, 2, 3
VAV	105	PRICE	SDV	LEVEL 1	GALLERY 106	8"	675	95	220	0.5	7,270	335	60.0	80.0	110.0	100.0	1.5	0.21	0.3	2	26	-	3/4"	39	1, 2, 3
VAV	106	PRICE	SDV	LEVEL 1	OFFICE 103	6"	120	25	25	0.4											26	20		30	1, 2, 3
VAV	107	PRICE	SDV	LEVEL 1	LOBBY 101	10"	800	600	600	0.5	13,020	600	60.0	80.0	110.0	100.0	2.6	0.24	0.3	2	-	-	3/4"	58	1, 2, 3
VAV	108	PRICE	SDV	LEVEL 1	OFFICE 105	6"	120	40	40	0.4											26	20		30	1, 2, 3
VAV	109	PRICE	SDV	LEVEL 1	HALLWAY 107	10"	800	65	65	0.5	8,680	400	60.0	80.0	110.0	100.0	1.7	0.24	0.3	2	-	-	3/4"	58	1, 2, 3
VAV	110	PRICE	SDV	LEVEL 1	CLASSROOM 111	8"	500	75	75	0.5											26	-		36	1, 2, 3
VAV	201	PRICE	SDV	LEVEL 2	MAKER'S SPACE 208	14"	1,900	180	180	0.6	20,615	950	60.0	80.0	110.0	100.0	4.1	0.23	0.3	2	-	-	3/4"	73	1, 2, 3
VAV	202	PRICE	SDV	LEVEL 2	COMPUTER LAB 209	10"	1,050	115	115	0.5	11,395	525	60.0	80.0	110.0	100.0	2.3	0.24	0.3	2	-	-	3/4"	58	1, 2, 3
VAV	203	PRICE	SDV	LEVEL 2	CLASSROOM 210	10"	1,050	125	125	0.5	11,395	525	60.0	80.0	110.0	100.0	2.3	0.24	0.3	2	-	-	3/4"	58	1, 2, 3
VAV	204	PRICE	SDV	LEVEL 2	L2 GALLERY 216	10"	800	125	125	0.5	8,680	400	60.0	85.0	110.0	100.0	1.7	0.24	0.3	2	-	-	3/4"	58	1, 2, 3

MECHANICAL - AIR COOLED CONDENSER UNIT

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	CU COOLING CAPACITY (BTU/H)	AMBIENT AIR TEMP (°F)	EER	SEER	REFRIGERANT	COMPRESSOR				VOLTAGE	PHASE	FREQUENCY	OPERATING WEIGHT	NOTES
										COMPRESSOR KW	MOTOR RLA (A)	MCA	MOCP (A)					
CU	1	DAIKIN	RXTQ60	UPPER MECH ROOF	57,500	95.0	9.8	18	R-410A	5.82	23	29 A	35	208	1	60	225.00	

MECHANICAL - FAN COIL SCHEDULE

NOTES:
(1) DIRECT DRIVE FANS.
(2) MECHANICAL CONTRACTOR TO BALANCE FAN TO DESIGN CFM WITH SPEED CONTROLLER.
(3) COOLING ONLY UNIT, NO ELECTRICAL REHEAT OR HUMIDIFICATION.
(4) COOLING CAPACITY CONTROLLED BY INTERNAL FACTORY MOUNTED 2-WAY VALVE.
(5) PROVIDE WITH CONDENSATE PUMP (120V)

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	SPACE NAME/NUMBER	TYPE	AIR FLOW (CFM)	COOLING COIL					REFRIDGERANT	CONDENSATE PUMP (Y/N)	ELECTRICAL			EMERGENCY POWER	OPERATING WEIGHT (LB)	NOTES
							SENS CAPACITY (BTU/H)	TOTAL CAPACITY (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	TYPE		VOLTAGE	PHASE	FREQUENCY			
FCU	101	DAIKIN	FXAQ24	MPOE 115	WALL MOUNT	635	18,000	24,000	80.0	67.0	55.0	R-410A	Yes	208	1	60	No	31	1,2,3
FCU	102	DAIKIN	FXAQ18	ELECTRICAL 113	WALL MOUNT	500	13,700	18,000	80.0	67.0	55.0	R-410A	Yes	208	1	60	No	31	1,2,3
FCU	201	DAIKIN	FXAQ18	ELEV. CONTROL 202	WALL MOUNT	500	13,700	18,000	80.0	67.0	55.0	R-410A	Yes	208	1	60	No	31	1,2,3
FCU	202	DAIKIN	FXAQ12	TELE / ELEC 205	WALL MOUNT	290	8,900	12,000	80.0	67.0	55.0	R-410A	Yes	208	1	60	No	26	1,2,3

P1

MECHANICAL - EXHAUST FAN SCHEDULE

P1

NOTES:
(1) PROVIDE BACKDRAFT DAMPER.
(2) PROVIDE SCROLL DRAIN
(3) REFER TO SPECIFICATION SECTION 230453 FOR VIBRATION ISOLATION REQUIREMENTS
(4) FAN MUST BE UL LISTED FOR KITCHEN/GREASE EXHAUST
(5) PROVIDE GREASE TRAP
(6) PROVIDE UNIT WITH ECM MOTOR

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	FAN			MOTOR DRIVE		ELECTRICAL				EMERG. PWR. (Y/N)	OPERATING WEIGHT (LB)	NOTES
							AIR FLOW (CFM)	ESP (IN-WG)	SPEED [RPM]	HP	BHP	FLA (A)	VOLT(V)	PH	HZ			
EF	1	GREENHECK	G-140HP-VG	UPPER MECH ROOF	TOILET EXHAUST	UPBLAST	920	1.00	1399	0.50	0.25	6.6	115	1	60	No	48	1, 3, 6
KEF	1	GREENHECK	USF-15	UPPER MECH ROOF	KITCHEN EXHAUST	UTILITY	2,500	1.75	1824	2.00	1.40	3.4	460	3	60	No	236	2, 3, 4, 5, 6

P1

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Designed by: Designer
Checked by: Checker

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title
MECHANICAL SCHEDULE

Drawing No.
M0.4

Sheet No.

MECHANICAL - AIR TO WATER HEAT PUMP

NOTES:
(1) PROVIDE PACKAGE WITH LOW-HEAD PUMP.
(2) PROVIDE CHECK VALVE AND BALANCE VALVE ON UNIT SUPPLY.
(3) PROVIDE INTEGRATION CONTROLLER FOR CONTROL OF MULTIPLE HEAT PUMPS.
(4) FUTURE ASHP

P1

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MDL	SPACE NAME NUMEBR	SERVICE	COOLING							HEATING							OPERATING WEIGHT (LB)	NOTES
						TOTAL CAPACITY (TONS)	EER	AMBIENT DB (°F)	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	FLOWRATE (GPM)	WATER PD (FTH2O)	TOTAL CAPACITY (MBTU/H)	COP	AMBIENT DB (°F)	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	FLOWRATE (GPM)	WATER PD (FTH2O)		
ASHP	1	AERMEC	NRP350	MECH ROOF 212	HHW/CHW	20.3	9.58	89.0	60.0	50.0	49	5.69	305	3.27	36.0	115.0	125.0	61	11.27	2,300	1, 2, 3
ASHP	(F)GYM	AERMEC	NRP550	MECH ROOF 212	HHW/CHW	26.8	9.56	89.0	60.0	50.0	64	5.69	382	3.06	36.0	115.0	125.0	76	10.11	2,600	1, 2, 3, 4

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MECHANICAL - AIR TO WATER HEAT PUMP CONT.

TYPE	EQUIPMENT NUMBER	SIMULTANEOUS HEATING					COMPRESSERS	ELECTRICAL					
		GPM	EWT (°F)	LWT (°F)	WPD (FTH2O)	TOTAL CAPACITY (BTU/H)	QTY.	KW	MCA (A)	MOCP (A)	V	PH	FREQUENCY (HZ)
ASHP	1	61	115	125	11.27	232,800	2	25	68	90	460	3	60
ASHP	(F)GYM	76	115	125	10.11	295,200	3	34	74	96	460	3	60

P1

MECHANICAL - PUMP SCHEDULE

NOTES:
(1) STAND-BY
(2) REFER TO SPECIFICATION SECTION 230524 FOR VIBRATION ISOLATION REQIREMENTS

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SPACE NAME/NUMBER	SERVICE	PUMP TYPE	FLUID	PUMP					VFD Y/N	ELECTRICAL						OPERATING WEIGHT (LB)	NOTES
									FLOW (GPM)	HEAD (FTWC)	SPEED (RPM)	NPSHR (FTWC)	PUMP ECM (Y/N)		BHP	HP	VOLT (V)	PHASE	FREQUENCY (HZ)	EMERG. PWR. (Y/N)		
CHWP	1	BELL & GOSSETT	e-90	LOWER MECHANICAL ROOF	MECH ROOF 212	CHW	INLINE	WATER	110.0	40.0	3313	13.20	Yes	No	1.620	2.00	208	3	60	No	75	2
CHWP	2	BELL & GOSSETT	e-90	LOWER MECHANICAL ROOF	MECH ROOF 212	CHW	INLINE	WATER	110.0	40.0	3313	13.20	Yes	No	1.620	2.00	208	3	60	No	75	1, 2
HHWP	1	BELL & GOSSETT	e-90	LOWER MECHANICAL ROOF	MECH ROOF 212	HHW	INLINE	WATER	135.0	40.0	3097	16.90	Yes	No	1.920	3.00	208	3	60	No	75	2
HHWP	2	BELL & GOSSETT	e-90	LOWER MECHANICAL ROOF	MECH ROOF 212	HHW	INLINE	WATER	135.0	40.0	3097	16.90	Yes	No	1.920	3.00	208	3	60	No	75	1, 2
HRWP	1	BELL & GOSSETT	e-60	LOWER MECHANICAL ROOF	UPPER MECH ROOF-3 313-3	HRW	INLINE	WATER	22.0	15.0	1750	5.46	Yes	No	0.173	0.33	208	3	60	No	55	2

P1

MECHANICAL - EXPANSION TANK SCHEDULE

NOTES:
(1) PRE-CHARGE PRESSURE SHALL BE EQUAL TO SYSTEM FILL PRESSURE AT TANK LOCATION.
(2) CONTRACTOR TO SET PRE-CHARGE PRESSURE DIAPHRAGM.

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SPACE NAME/NUMBER	SERVICE	TANK VOLUME (GAL)	MAX TEMP (°F)	MIN TEMP (°F)	WORKING PRESSURE (PSI)	INITIAL FILL PRESSURE (PSI)	CONNECTION SIZE (IN)	TANK SIZE (IN)		OPERATING WEIGHT (LB)	NOTES
													DIAMETER	HEIGHT		
ET	1	WESSELS	NTA-15	LOWER MECHANICAL ROOF	MECH ROOF 212	CHW	7.8	65.0	45.0	85.0	12.0	2"	12"	19"	42	1, 2
ET	2	WESSELS	NTA-15	LOWER MECHANICAL ROOF	MECH ROOF 212	HHW	7.8	120.0	45.0	85.0	12.0	2"	12"	19"	42	1, 2
ET	3	WESSELS	NTA-15	LOWER MECHANICAL ROOF	UPPER MECH ROOF-3 313-3	HRW	2.1	100.0	35.0	85.0	12.0	3/4"	8"	11"	14	1, 2

P1

MECHANICAL - AIR SEPARATOR SCHEDULE

NOTES:
(1) INCLUDE AUTOMATIC AIR VENT AND BLOWDOWN VALVE.

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	SERVICE	LOCATION	SPACE NAME/MUNBER	AIR SEPARATOR TYPE	FLOW (GPM)	MIN DESIGN AIR ELIMINATIONS [%]	AS PRESSURE DROP (FT WG)	HEIGHT (IN)	DIAMETER (IN)	OPERATING WEIGHT (LB)	NOTES
AS	1	SPIROTHERM	VSR300	CHW	LOWER MECHANICAL ROOF	MECH ROOF 212	INLINE	105.0	90	1.00	24"	8.6"	95	1
AS	2	SPIROTHERM	VSR300	HHW	LOWER MECHANICAL ROOF	MECH ROOF 212	INLINE	130.0	90	2.00	24"	8.6"	95	1

MECHANICAL - CHEMICAL POT FEEDER SCHEDULE

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	TANK VOLUME (GAL)	CONNECTION SIZE (IN)	TANK SIZE (IN)		OPERATING WEIGHT (LB)
								DIAMETER	HEIGHT	
PF	1	WESSELS	CPFTA-2	LOWER MECHANICAL ROOF	CHW	2.0	3/4"	6"	20"	22
PF	2	WESSELS	CPFTA-2	LOWER MECHANICAL ROOF	HHW	2.0	3/4"	6"	20"	22

P1

MECHANICAL - BUFFER TANK SCHEDULE

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	VOLUME (GAL)	HEIGHT (IN)	DIAMETER (IN)	OPERATING WEIGHT (LB)
BT	1	CEMLINE	CWB300	LOWER MECHANICAL ROOF	CHW	300	75	42	3300
BT	2	CEMLINE	CWB300	LOWER MECHANICAL ROOF	HHW	300	75	42	3300

MECHANICAL - RADIATOR SCHEDULE

NOTES:
(1) PROVIDE THERMOSTATIC CONTROL VALVE W/ VALVE MOUNTED DIAL AND SENSOR, AND BALANCING VALVE.
(2) PROVIDE AN ISOLATION VALVE ON RETURN.
(3) PROVIDE AIR VENT AND DRAIN PLUG.
(4) PERFORMANCE AT 70 DEG.F SPACE TEMPERATURE.
(5) PROVIDE FLOOR MOUNT POSTS BRACKETS AND PEDESTALS.

P1

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	HEATING CAPACITY (BTU/H/LF)	WIDTH	LENGTH	HEIGHT	EWT (°F)	LWT (°F)	AVG WATER TEMP (°F)	FLOW (GPM)	PRESS. DROP (PSI)	OPERATING WEIGHT (LB)	NOTES
RAD	101	RUNTAL	UFLT-2	SOCIAL HALL 116	205	0' - 3"	15' - 0"	0' - 6"	125.0	115.0	120.0	0.5	0.2	90	1, 2, 3, 4,5
RAD	102	RUNTAL	UFLT-2	SOCIAL HALL 116	205	0' - 3"	6' - 0"	0' - 6"	125.0	115.0	120.0	0.2	0.2	36	1, 2, 3, 4,5
RAD	103	RUNTAL	UFLT-2	GALLERY 106	205	0' - 3"	17' - 0"	0' - 6"	125.0	115.0	120.0	0.5	0.2	102	1, 2, 3, 4,5
RAD	104	RUNTAL	UFLT-2	GALLERY 106	205	0' - 3"	14' - 0"	0' - 6"	125.0	115.0	120.0	0.4	0.2	84	1, 2, 3, 4,5
RAD	105	RUNTAL	UFLT-2	SOCIAL HALL 116	205	0' - 3"	12' - 0"	0' - 6"	125.0	115.0	120.0	0.4	0.2	72	1, 2, 3, 4,5

P1

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Drawing Title
MECHANICAL SCHEDULE

Drawing No.
M0.5

Sheet No.

DISPLACEMENT DIFFUSERS

ITEM	MANUFACTURER & MODEL NO.	TYPE	MOUNTING	MANUFACTURER'S BORDER TYPE	OVERALL DIMENSION (IN. X IN.)	NECK SIZE (IN or IN. X IN.)	MAX. TOTAL PRESSURE (IN. W.C.)	MAX CFM				OPPOSED BLADE DAMPER PERMITTED (Y/N)	NOTES
								NC 30	NC 35	NC 40	NC 45		
DD-1	PRICE DFW	ONE WAY IN WALL DIFFUSER	WALL	N.A.	15 X "A"	2.5 X 12	0.04	SEE NOTES				N	1,2,3,5,6,7
					23 X "A"	2.5 X 18	0.04	SEE NOTES				N	1,2,3,5,6,7
					30 X 24	2.5 X 18	0.05	225	225	225	225	N	1,2,3,5
					36 X 24	2.5 X 18	0.06	275	275	275	275	N	1,2,3,5
					48 X 24	2.5 X 20	0.07	370	370	370	370	N	1,2,3,5
DD-2	PRICE D360	360 DEGREE DISPLACEMENT DIFFUSER	DUCT HUNG	N.A.	12Ø X 24	12Ø	0.04	300	300	300	300	N	1,2,3,4,5
					18Ø X 24	12Ø	0.04	440	440	440	440	N	1,2,3,4,5
DD-3	PRICE DFC	CEILING DISPLACEMENT DIFFUSER	T-BAR CEILING, HARD...	STANDARD	12 X 24	6Ø	0.04	60	60	60	60	N	1,2,3,5
					24 X 24	8Ø	0.05	200	200	200	200	N	1,2,3,5
					24 X 48	10Ø	0.09	320	320	320	320	N	1,2,3,5

NOTES:
1. SEE ROOM NC LEVEL SCHEDULE FOR ROOM RATINGS.
2. PROVIDE DUCT TO NECK TRANSITION AS REQUIRED.
3. MAXIMUM AVAILABLE DIFFUSER NC LEVEL TO BE 5 (FIVE) POINTS LOWER THAN NC CRITERION FOR ROOM SERVED.
4. WITH BASKET 100% OPEN
5. PROVIDE SIZE LISTED BASED ON AIRFLOW AND NC LEVEL UNLESS NOTED OTHERWISE ON PLANS.
6. DIMENSION "A" 6" INCREMENTS FROM 24" TO 48"
7. REFER TO PLANS FOR SIZES AND FLOW RATE...

ROOM NC LEVEL

ROOM TYPE	ROOM NC LEVEL
SOCIAL HALL	30
ENCLOSED OFFICE	30
CLASSROOM/LAB	30
MAKER'S SPACE	35
IDF/MDF ROOM	45
ELECTRICAL ROOM	45
RESTROOM/SHOWER	55
KITCHEN	55

NOTES:
1. ALL ROOMS NOT LISTED ABOVE TO BE NC35.

DIFFUSER SCHEDULE

ITEM	MANUFACTURER & MODEL NO.	TYPE	MOUNTING	MANUFACTURER'S BORDER TYPE	OVERALL DIMENSION (IN. X IN.)	NECK SIZE (IN or IN. X IN.)	MAX. TOTAL PRESSURE (IN. W.C.)	MAX CFM				OPPOSED BLADE DAMPER PERMITTED (Y/N)	NOTES
								NC 30	NC 35	NC 40	NC 45		
SUPPLY DIFFUSERS													
CD-1	PRICE PDMC/ADMC	PERFORATED MODULAR CORE	T-BAR CEILING, HARD CEILING (SEE NOTE 5)	T-BAR: TYPE 3	24X24	6Ø	0.1	80	100	110	110	N	1,2,3,4,6
					24X24	8Ø	0.1	140	175	195	210	N	1,2,3,4,6
					24X24	10Ø	0.1	220	275	305	330	N	1,2,3,4,6
					24X24	12Ø	0.1	310	350	410	470	N	1,2,3,4,6
					24X24	14Ø	0.1	430	500	550	630	N	1,2,3,4,6
					24X24	16Ø	0.1	490	575	720	820	N	1,2,3,4,6
RETURN REGISTERS													
CR-01 ER-01	PRICE PDDR/APDDR	PERFORATED RETURN AND EXHAUST	T-BAR CEILING HARD CEILING (SEE NOTE 5)	T-BAR: TYPE 3 HARD CEILING: TYPE 1	12X12	6Ø	0.06	90	110	110	110	N	1,2,3,4,6
					24X24	6Ø	0.06	90	110	110	110	N	1,2,3,4,6
					24X24	8Ø	0.08	175	210	240	240	N	1,2,3,4,6
					24X24	10Ø	0.08	275	325	375	375	N	1,2,3,4,6
					24X24	12Ø	0.08	395	470	540	540	N	1,2,3,4,6
					24X24	14Ø	0.08	520	620	700	700	N	1,2,3,4,6
					24X24	15Ø	0.08	615	735	840	840	N	1,2,3,4,6

NOTES:
1. SEE ROOM NC LEVEL SCHEDULE FOR ROOM RATINGS.
2. PROVIDE DUCT TO NECK TRANSITION AS REQUIRED.
3. MAXIMUM AVAILABLE DIFFUSER NC LEVEL TO BE 5 (FIVE) POINTS LOWER THAN NC CRITERION FOR ROOM SERVED.
4. PROVIDE SIZE LISTED BASED ON AIRFLOW AND NC LEVEL UNLESS NOTED OTHERWISE ON PLANS.
5. HARD LID DIFFUSER DIMENSIONS 3" SMALLER
6. AIRFLOW VALUES ARE BASED ON FINAL RUN OUT DUCT TO DIFFUSER EQUAL TO NECK SIZE.

GRILLE SCHEDULE

ITEM	MANUFACTURER & MODEL NO.	TYPE	MOUNTING	MANUFACTURER'S BORDER TYPE	MAX. TOTAL PRESSURE (IN. W.C.)	OPPOSITE BLADE DAMPER PERMITTED (Y/N)	NOTES
EXHAUST/RETURN GRILLES							
RG-2	PRICE 80	GRILLE, 45 DEGREE DEFLECTION ANGLED	HARD CEILING	STANDARD	0.08	SEE PLANS	1,2,3,4
RG-1 EG-1 TG-1	PRICE 530 AND 630	GRILLE, 45 DEGREE DEFLECTION 3/4" SPACING	WALL, DUCT, HARD CEILING	STANDARD	0.08	SEE PLANS	1,2,3,4

NOTES:
1. SEE ROOM NC LEVEL SCHEDULE FOR ROOM RATINGS.
2. PROVIDE DUCT TO NECK TRANSITION AS REQUIRED.
3. MAXIMUM AVAILABLE DIFFUSER NC LEVEL TO BE 5 (FIVE) POINTS LOWER THAN NC CRITERION FOR ROOM SERVED.
4. REFER TO PLANS FOR SIZES....

Ventilation Calculations

Zone Number	Room Name and Number	Occupancy Classification	Area (ft²)	# People	2019 Title 24 Required Ventilation					2016 ASHRAE Required Ventilation						Required Ventilation (CFM) (Vbz)
					Min. Vent. Rate (CFM/ft²)	Min. Vent. Rate (CFM/Person)	Min. Vent. (CFM/person)	Min. Vent (CFM/ft²)	Title 24 Req'd Vent. Air Flow (CFM)	Min. Vent. Rate (CFM/ft²)	Min. Vent. Rate (CFM/Person)	Min. Vent. (CFM/ft²)	Min. Vent. (CFM/person)	ASHRE Req'd. Vent Air Flow (CFM)	30% Add'l Vent. (CFM)	
101	LOBBY/RECEPTION	Main entry lobbies	1197	12	0.5	15	180	599	599	0.06	5	72	60	132	172	600
103	DIRECTOR'S OFFICE	Office	163	1	0.15	15	15	25	25	0.06	5	10	5	15	20	25
104	GENERAL STORAGE	Storage rooms	129	0	-	15	0	0	0	0.12	0	16	0	16	21	25
105	INCLUSION	Office	91	1	0.15	15	15	14	15	0.06	5	6	5	11	15	15
106	GALLERY	Corridor	624	0	0.15	15	0	94	94	0.06	0	38	0	38	50	95
107	HALLWAY	Corridor	429	0	0.15	15	0	65	65	0.06	0	26	0	26	34	65
108	WOMEN'S	Unoccupied	212	0	0	0	0	0	0	0	0	0	0	0	0	0
109	JAN	Unoccupied	30	0	0	0	0	0	0	0	0	0	0	0	0	0
110	MEN'S	Unoccupied	205	0	0	0	0	0	0	0	0	0	0	0	0	0
111	CLASSROOM	Classrooms (age 9 plus)	481	17	0.38	15	255	183	255	0.12	10	58	170	228	297	300
112	KITCHEN	Restaurant Kitchen	456	10	0.15	15	150	69	150	0.12	7.5	55	75	130	169	170
113	ELECTRICAL	Unoccupied	180	0	0	0	0	0	0	0	0	0	0	0	0	0
114	INVERTER	Unoccupied	26	0	0	0	0	0	0	0	0	0	0	0	0	0
115	MPOE	Unoccupied	58	0	0	0	0	0	0	0	0	0	0	0	0	0
116	SOCIAL HALL	Multi-use assembly	1608	161	0.5	15	2415	804	2415	0.06	7.5	97	1208	1305	1697	2415
117	SOCIAL HALL SUPPORT	Office	144	1	0.15	15	15	22	22	0.06	5	9	5	14	19	25
201	GN RR	Unoccupied	66	0	0	0	0	0	0	0	0	0	0	0	0	0
202	ELEV. CONTROL	Unoccupied	41	0	0	0	0	0	0	0	0	0	0	0	0	0
203	JAN	Unoccupied	21	0	0	0	0	0	0	0	0	0	0	0	0	0
204	COMP. LAB SUPPORT	Office	87	1	0.15	15	15	14	15	0.06	5	6	5	11	15	15
205	TELE/ELEC	Unoccupied	54	0	0	0	0	0	0	0	0	0	0	0	0	0
207	HALLWAY	Corridor	423	0	0.15	15	0	64	64	0.06	0	26	0	26	34	65
208	MAKER'S SPACE	Classrooms (age 9 plus)	1178	25	0.38	15	375	448	448	0.12	10	142	250	392	510	510
209	COMPUTER LAB	Classrooms (age 9 plus)	757	16	0.38	15	240	288	288	0.12	10	91	160	251	327	330
210	CLASSROOM	Classrooms (age 9 plus)	827	16	0.38	15	240	315	315	0.12	10	100	160	260	338	340
216	L2 GALLERY	Corridor	270	0	0.15	15	0	41	41	0.06	0	17	0	17	23	45
217	ELEV LOBBY	Unoccupied	174	0	0	0	0	0	0	0	0	0	0	0	0	0
2XX	WC1	Unoccupied	23	0	0	0	0	0	0	0	0	0	0	0	0	0
2XX	WC2	Unoccupied	24	0	0	0	0	0	0	0	0	0	0	0	0	0
2XX	WC3	Unoccupied	49	0	0	0	0	0	0	0	0	0	0	0	0	0

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Drawing Title
MECHANICAL SCHEDULE

Drawing No.
M0.6

Sheet No.

MOSSWOOD COMMUNITY CENTER - PHASE 1

LMSa PROJECT NUMBER: 1902

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Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood rnd.ribd19x		

A. GENERAL INFORMATION

1	Project Location (city)	Oakland	8	Standards Version	Compliance@2019
2	CA Zip Code	94609	9	Compliance Software (version)	CBECC-Com 2019.1.3
3	Climate Zone	3	10	Weather File	OAKLAND_724930_CZ2010.epw
4	Total Conditioned Floor Area in Scope	9,594 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	2,404 ft²	12	Permitted Scope of Work	NewConstruction
6	Total # of Stories (Habitable Above Grade)	2	13	Building Type(s)	Nonresidential
7	Total # of dwelling units:	0	14	Gas Type	Mixed

B. PROJECT SUMMARY

Table instructions: 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)	☒	Performance	Covered Process: Commercial Kitchens	☒	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).*
	☐	Not Included		☐	Not Included	
Mathanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐	Performance	Indoor Lighting (Unconditioned)§140.6 — NRCC-LTI-E
	☐	Not Included		☒	Not Included	Outdoor Lighting §140.7 — NRCC-LTO-E
Domestic Hot Water (see Table I)	☒	Performance	Covered Process: Laboratory Exhaust	☐	Performance	Sign Lighting §140.8 — NRCC-LTS-E
	☐	Not Included		☒	Not Included	Mandatory Measures
Lighting (Indoor Conditioned, see Table E)	☒	Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (I.e. compliance will not be shown on the NRCC-PRF-E.)*
	☐	Not Included				Electrical Power Distribution §110.11 — NRCC-ELC-E
Solar Thermal Water Heating (see Table I)	☐	Performance				Commissioning §120.8 — NRCC-CXR-E
	☒	Not Included				Solar Ready §110.10 — NRCC-SRA-E

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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	16.41	148.90	-132.49
Space Cooling	56.81	60.91	-5.10
Indoor Fans	280.51	92.77	186.74
Heat Rejection	–	–	–
Pumps & Misc.	–	1.53	-1.53
Domestic Hot Water	20.60	22.30	-1.70
Indoor Lighting	46.30	51.41	-5.11
ENERGY STANDARDS COMPLIANCE TOTAL	**421.53**	**380.22**	**41.31 (9.8%)**

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

C2. RESULTS for 'ABOVE CODE' QUALIFICATIONS[1]

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	91.55	91.55	–
Process	12.82	12.82	–
Other Lig	10.81	10.51	0.30
Process Motors	5.43	5.43	–
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**542.14**	**500.53**	**41.6 (7.7%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

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C3. 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	–	33.3	–	19.1	–	–
Space Cooling	14.0	17.1	-3.1	–	–	–
Indoor Fans	80.3	31.6	48.7	–	–	–
Heat Rejection	–	–	–	–	–	–
Pumps & Misc.	–	0.5	–	–	–	–
Domestic Hot Water	1.3	7.7	-6.4	42.6	–	–
Indoor Lighting	15.1	17.4	-2.3	–	–	–
Compliance Total	**120.7**	**127.6**	**-6.9**	**81.9**	**0.0**	**–**
Receptacle	30.0	30.0	0.0	–	–	–
Process	4.5	4.5	0.0	–	–	–
Other Lig	3.5	3.4	0.1	–	–	–
Process Motors	1.7	1.7	0.0	–	–	–
TOTAL	**160.4**	**167.2**	**-6.8**	**81.9**	**0.0**	**–**

D. EXCEPTIONAL CONDITIONS

E. HERS VERIFICATION

This Section Does Not Apply

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G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	1,475 ft²	1,158 ft²	13.3%
East-Facing[2]	1,461 ft²	313 ft²	21.4%
South-Facing[3]	1,911 ft²	597 ft²	31.2%
West-Facing[4]	2,816 ft²	578 ft²	20.5%
Total	**9,664 ft²**	**2,645 ft²**	**27.4%**
Roof	9,323 ft²	90 ft²	01.4%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
Ground Contact Floor	UndergroundFloor	1691	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = 0.0	N
Internal Partition	InteriorWall	8489	Metal	0	NA	U-Factor	0.319	Gypsum Board - 5/8 in. Air - Metal Wall Framing - 16 or 24 in. OC Gypsum Board - 5/8 in.	N
Internal Ceiling	InteriorFloor	4894	Metal	0	NA	U-Factor	0.329	Gypsum Board - 5/8 in. Air - Metal Wall Framing - 16 or 24 in. OC Concrete - 140 lb/ft3 - 4 in	N

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G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
Standing Seam Roof	Roof	7411	Wood	30	6	U-Factor	0.029	Metal Standing Seam - 1/16 in. Compliance Insulation R6.00 Plywood - 5/8 in. Wood framed roof, 16in. OC, 9.25in., R-30 Gypsum Board - 5/8 in.	N
Exposed Floor	ExteriorFloor	5195	NA	0	NA	U-Factor	0.265	Carpet - 3/4 in. Concrete - 140 lb/ft3 - 4 in. Vapor seal - plastic film - 1/16 in.	N
Wood Frame External Wall	ExteriorWall	10516	Wood	21	NA	U-Factor	0.064	Gypsum Board - 5/8 in. Wood framed wall, 16in. OC, 5.5in., R-21 Plywood - 5/8 in. Fiber cement board - 68 lb/ft3 - 1/2 in.	N
Exposed Floor 2	ExteriorFloor	470	Wood	19	NA	U-Factor	0.051	Plywood - 5/8 in Plywood - 5/8 in. Wood framed floor, 16in. OC, 5.5in., R-19 Plywood - 5/8 in.	N
Internal Partition 2	ExteriorWall	6301	NA	0	10	U-Factor	0.084	Gypsum Board - 5/8 in. Compliance Insulation R10.00 Gypsum Board - 5/8 in.	N

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

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G5. FENESTRATION ASSEMBLY SUMMARY

1 Fenestration Assembly Name / Tag or I.D.	2 Fenestration Type / Product Type / Frame Type	3 Certification Method[1]	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Status[2]
SK706, tri fab	Vertical Fenestration : Fixed Window : N/A	NFRC Rated	Manufactured	3105	0.47	0.27	0.63	N
Skylight	Skylight : Fixed Window : N/A	NFRC Rated	Manufactured	90	0.58	0.25	0.49	N
SK706, tri fab, Clerestory	Vertical Fenestration : Fixed Window : N/A			NaN	0.47	0.27	0.63	N

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

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
AHU 1	VAV (Packaged/1Phase)	1	423	0	NA	NA	385			NoEconomizer	N

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

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Drawn by: Author
Designed by: Designer
Checked by: Checker

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
TITLE 24 - FORMS

Drawing No.
M0.7

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:45:41 PM

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status[2]
	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
AHU 1	VAV	5022	11000	13.335	10680.7	VariableSpeedDrive	6999	4.073	2.40	VariableSpeedDrive	NoEconomizer	N
FCU 101	FPFC	0	850	0.023	18.7	ConstantVolume	NA	NA	NA	NA	NA	N
FCU 102	FPFC	0	850	0.021	17.4	ConstantVolume	NA	NA	NA	NA	NA	N
FCU 201	FPFC	0	850	0.022	18.7	ConstantVolume	NA	NA	NA	NA	NA	N
FCU 202	FPFC	0	850	0.021	18.4	ConstantVolume	NA	NA	NA	NA	NA	N

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

H3. EXHAUST FAN SUMMARY[1]

1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H20)
EF 1	Zn 201 Restroom; Zn 108 Restroom	1	895	0.434	347.0	1.00

H4. Wet System Equipment (boilers, chillers, cooling towers, etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps				Status[1]
							Qty	GPM	HP	VSD (Y/N)	
ASHP-1 Cooling ASHP Cooling 5	Chilled Water, Primary Only	NA	NA	NA	NA	NA	1	120.0	2.000	Yes	N
Chiller	Screw	NA	NA	244	EER-11.2	NA	NA	NA	NA	No	N
ASHP-1 Heating ASHP Heating 5	Heating Hot Water, Primary Only	NA	NA	NA	NA	NA	1	140.0	3.000	Yes	N
Boiler	HotWater	NA	NA	305	Thrml Eff-0.98	NA	NA	NA	NA	No	N

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

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
AHU 1	Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	5 Zones With CO2Sensor Vent. Control, DDC Controls and Single Maximum Reheat Control; No Economizer Warmest Zone Supply Air Temp. Reset
SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC
ASHP-1 Cooling	NA	NA	NA	NA	Fixed Temperature Control, DDC
ASHP-1 Heating	NA	NA	NA	NA	Fixed Temperature Control, DDC

Note: This table includes controls related to the mechanical path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
Zn 208 Makers Space	Misc - All others	0	14.00	0	510	0	1251	DCV
Zn 207 Hallway	General - Corridors	0	2.46	0	74	0	491	Occupant Sensor
Zn 216 Gallery	General - Corridors	0	2.35	0	70	0	470	Occupant Sensor
Zn 208 Computer Lab	Misc - All others	0	21.80	0	327	0	858	DCV
Zn 210 Classroom	Misc - All others	0	22.50	0	338	0	908	DCV
Zn 116 Social Hall	Misc - All others	0	161.00	0	2415	0	1633	DCV
Zn 101 Reception Lobby	Misc - Banks or bank lobbies	0	80.00	0	600	0	999	NA
Zn 112 Kitchen	Food Service - Kitchen (cooking)	0	11.30	0	170	2500	505	NA
Zn 111 Inclusion Classroom	Misc - All others	0	20.00	0	300	0	642	DCV
Zn 107 Hallway	General - Corridors	0	9.00	0	66	0	579	Occupant Sensor
Zn 106 Gallery	General - Corridors	0	2.91	0	87	0	582	Occupant Sensor
Zn 105 Inclusion Office	Office - Office space	0	1.50	0	23	0	334	Occupant Sensor

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
Zn 101 Directors Office	Office - Office space	0	0.00	0	23	0	154	Occupant Sensor
Zn 202 Elev Control	General - Unoccupied	0	0.00	0	0	0	54	NA
Zn 205 Tele/Elec	General - Unoccupied	0	0.00	0	0	0	56	NA
Zn 115 MPOE	General - Unoccupied	0	0.14	0	0	0	90	NA
Zn 113 Electrical	General - Unoccupied	0	0.35	0	0	0	221	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
FCU 101	Zn 115 MPOE	FPFC	NA	31.00	850	NA	NA	0.022	18.7	☐	☐
FCU 102	Zn 113 Electrical	FPFC	NA	31.00	850	NA	NA	0.021	17.4	☐	☐
FCU 201	Zn 205 Tele/Elec	FPFC	NA	31.00	850	NA	NA	0.022	18.7	☐	☐
FCU 202	Zn 202 Elev Control	FPFC	NA	31.00	850	NA	NA	0.021	18.4	☐	☐
VAV 101-107	Zn 116 Social Hall	VAVReheatBox	6.00	NA	2525	270	0.11	NA	NA	NA	☐
VAV 104	Zn 112 Kitchen	VAVReheatBox	15.00	NA	1400	1400	1.00	NA	NA	NA	☐
VAV 105	Zn 106 Gallery	VAVReheatBox	5.00	NA	675	95	0.14	NA	NA	NA	☐
VAV 108	Zn 101 Directors Office	VAVNoReheatBox	NA	NA	120	35	0.23	NA	NA	NA	☐

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
VAV 107	Zn 101 Reception Lobby	VAVReheatBox	6.00	NA	800	600	0.75	NA	NA	NA	☐
VAV 108	Zn 105 Inclusion Office	VAVReheatBox	4.00	NA	120	40	0.33	NA	NA	NA	☐
VAV 109	Zn 107 Hallway	VAVReheatBox	6.00	NA	800	86	0.11	NA	NA	NA	☐
VAV 110	Zn 111 Inclusion Classroom	VAVNoReheatBox	NA	NA	500	96	0.19	NA	NA	NA	☐
VAV 201	Zn 208 Makers Space	VAVReheatBox	7.00	NA	1900	168	0.10	NA	NA	NA	☐
VAV 202	Zn 209 Computer Lab	VAVReheatBox	3.00	NA	1050	129	0.12	NA	NA	NA	☐
VAV 203	Zn 210 Classroom	VAVReheatBox	2.00	NA	1050	116	0.11	NA	NA	NA	☐
VAV 204_1	Zn 216 Gallery	VAVReheatBox	1.00	NA	400	70	0.17	NA	NA	NA	☐
VAV 204_2	Zn 207 Hallway	VAVReheatBox	1.00	NA	400	74	0.18	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

I1. WATER HEATER EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	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	Heat Pump Type	1st Hour Rating or Flow Rate (gal)	Tank Location or Ambient Condition
HPWH-1-2	Electricity	NA	1	150.00	10.6	kW	2.50	COP	NA	NA	Heat Pump Split	NA	Zone

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type[1,3]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional [Custom] Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Electrical, Mechanical, Telephone Rooms	421	260	0	0	0
Office Area (<250 square feet)	257	190	0	0	0
Corridor Area	2,118	1,041	0	0	0
Classrooms, Lecture, Training, Vocational Areas	3,659	2,964	0	0	0
Kitchen/Food Preparation Area	505	336	0	0	0
Main Entry Lobby	999	476	0	0	0
Convention, Conference, Multipurpose and Meeting Area	1,633	1,066	0	0	0
Building Totals:	**9,592**	**6,333**	**0**	**0**	**0**

[1] Per Table 140.6-C
[2] See NRCC-LTI-02-E for unconditioned spaces.
[3] Lighting information for existing spaces/systems is not included in the table.

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

		Installed Watts (Conditioned)			
1	2	3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
CL-02		17	According to §130.0(c)	2	34

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

		Installed Watts (Conditioned)			
1	2	3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
CL-04		14	According to §130.0(c)	1	14
CL-06		51	According to §130.0(c)	1	51
CL-08		68	According to §130.0(c)	7	476
CL-10		85	According to §130.0(c)	4	340
CL-12		101	According to §130.0(c)	6	606
EL-14		118	According to §130.0(c)	1	118
EW-08		49	According to §130.0(c)	2	98
EW-11		67	According to §130.0(c)	2	134
EW-13		80	According to §130.0(c)	1	80
EW-16		98	According to §130.0(c)	1	98
EW-18		110	According to §130.0(c)	1	110
DW-11		77	According to §130.0(c)	1	77
DW-16		112	According to §130.0(c)	1	112
DW-19		133	According to §130.0(c)	2	266

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Drawn by: Author
Designed by: Designer
Checked by: Checker

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
TITLE 24 - FORMS

Drawing No.
M0.8

Sheet No.

MOSSWOOD COMMUNITY CENTER - PHASE 1

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:45:43 PM

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 13 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood nd.cibd19x		

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

1	2	3	4	5	6
		Installed Watts (Conditioned)			
Name or Item Tag	**Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)**	**Watts per luminaire**	**How Wattage is Determined**	**Total Number Luminaires**	**Installed Watts**
DW-32		224	According to §130.0(c)	1	224
DW-34		238	According to §130.0(c)	1	238
LR-01		26	According to §130.0(c)	10	260
MW-12		54	According to §130.0(c)	3	162
MW-8		36	According to §130.0(c)	1	36
RC-01		28	According to §130.0(c)	12	336
RC-02		19	According to §130.0(c)	23	437
RC-03		21	According to §130.0(c)	13	273
RC-04		21	According to §130.0(c)	10	210
RD-03		14	According to §130.0(c)	5	70
SH-8		68	According to §130.0(c)	14	952
SP-01		91	According to §130.0(c)	2	182
SP-03		53	According to §130.0(c)	2	106
SP-04		71	According to §130.0(c)	3	213

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 14 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood nd.cibd19x		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credic (Watts)
113 Electrical	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00	LR-01	104.0	4	104	0
115 MPOE	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00	LR-01	52.0	2	52	0
103 Directors Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00 0.00	RC-02	114.0	6	114	0
105 Inclusion Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00 0.00	RC-02	76.0	4	76	0
106 Gallery	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00	CW-08 SH-8	49.0 204.0	1 3	253	0
107 Hallway	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00	RC-03 RC-04	105.0 84.0	5 4	189	0
111 Inclusion Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00	CW-16 MW-8	98.0 36.0	1 1	381	0

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 15 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood nd.cibd19x		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credic (Watts)
			0.00 0.00 0.00	RC-02	247.0	13		
112 Kitchen	Kitchen/Food Preparation Area	NA	0.00 0.00 0.00 0.00 0.00	RC-01	336.0	12	336	0
101 Reception Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00 0.00	RC-03 RC-04 SP-01	168.0 126.0 182.0	8 6 2	476	0
116 Social Hall	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00 0.00	CW-13 DW-34 SH-8	80.0 238.0 748.0	1 1 11	1066	0
205 Tele/Elec	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00	LR-01	52.0	2	52	0
202 Elev Control	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00	LR-01	52.0	2	52	0
210 Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00	CL-08 CL-12 CW-11 DW-19	204.0 303.0 67.0 133.0	3 3 1 1	761	0

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 16 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood nd.cibd19x		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credic (Watts)
			0.00	MW-12	54.0	1		
209 Computer Lab	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	CL-08 CL-12 CW-11 DW-16 MW-12	204.0 303.0 67.0 112.0 54.0	3 3 1 1 1	740	0
216 Gallery	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00	DW-19 SP-03 SP-04	133.0 106.0 213.0	1 2 3	452	0
207 Hallway	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00	DW-11 RD-03 - none -	77.0 70.0	1 5	147	0
208 Makers Space	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	CL-02 CL-04 CL-06 CL-08 CL-10	34.0 34.0 51.0 68.0 340.0	2 1 1 1 4	527	0
208 Makers Space	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	CL-14 CW-08 CW-18 DW-32 MW-12	118.0 49.0 110.0 224.0 54.0	1 1 1 1 1	555	0

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 17 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood nd.cibd19x		

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

1	2
Mandatory Demand Response §110.12(c)	**Shut-Off Controls §130.1(c)**

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

4	5	6	7	8	9	10
Area Description	**Area Category Primary Function Area**	**Area Controls 130.1(a)**	**Multi-Level Controls 130.1(b)**	**Shut-Off Controls 130.1(c)**	**Primary Daylighting 130.1(d)**	**Secondary Daylighting 140.5(d)**

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 18 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood nd.cibd19x		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance.
Covered Process	NRCI-PRC-01-E - Must be submitted for all Covered Processes.

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Designed by: Designer
Checked by: Checker

No.	DATE	ISSUE DESCRIPTION
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	07/15/2022	100%CD / BID SET

Project Information
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Drawing Title
TITLE 24 - FORMS

Drawing No.
M0.9

Sheet No.

MOSSWOOD COMMUNITY CENTER - PHASE 1

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:45:46 PM

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 19 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	2021081913 24 Mosswood nd.ribd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table instructions: Selections shall be made by Documentation Author to 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). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/#HCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NFRC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
	NRCA-LTI-03-A - Automatic Daylight Controls
Covered Process:	NRCA-PRC-02-F - Kitchen Exhaust
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints
	NRCA-MCH-07-A Supply Fan Variable Flow Controls
	NRCA-MCH-16-A Supply Air Temperature Reset Controls
	NRCA-MCH-18 Energy Management Control Systems
	NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 20 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	2021081913 24 Mosswood nd.ribd19x		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table instructions: Selections shall be made by Documentation Author to 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 at: Https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/#Nonresidential_Documents/#HCB/

Building Component	Form/Title
Mechanical	NRCV-MCH-04-H Duct Leakage Test
	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation
	NRCV-MCH-32-H Local Mechanical Exhaust

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 21 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	2021081913 24 Mosswood nd.ribd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Risiong Liu	Signature:	
Company: Integral Group		
Address: 427 13th Street	Signature Date: 2021-08-19	
City/State/Zip: Oakland CA 94612	CEA/ HERS Certification Identification (if applicable):	
Phone: 5106632070		

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 will ensure that a complete, signed 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. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name::	Signature:	
Company: Leddy Maytum Stacy		
Address: 1940 Bryant Street	Date Signed:	
City/State/Zip: San Francisco CA 94110		
Phone: 4154951700	Title: Architect	License #:
Responsible Lighting Designer Name:	Signature:	
Company: Integral Group		
Address: 427 13th Street	Date Signed: 2021-08-19	
City/State/Zip: Oakland CA 94612		
Phone: 5106632070	Title: Engineer	License #: E 18240
Responsible Mechanical Designer Name:: - specify -	Signature:	
Company: Integral Group		
Address: 427 13th Street	Date Signed: 2021-08-19	
City/State/Zip: Oakland CA 94612		
Phone: 5106632070	Title: Engineer	License #: M 29791

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Designed by: Designer
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No.	DATE	ISSUE DESCRIPTION
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P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

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Drawing Title
TITLE 24 - FORMS

Drawing No.
M0.10

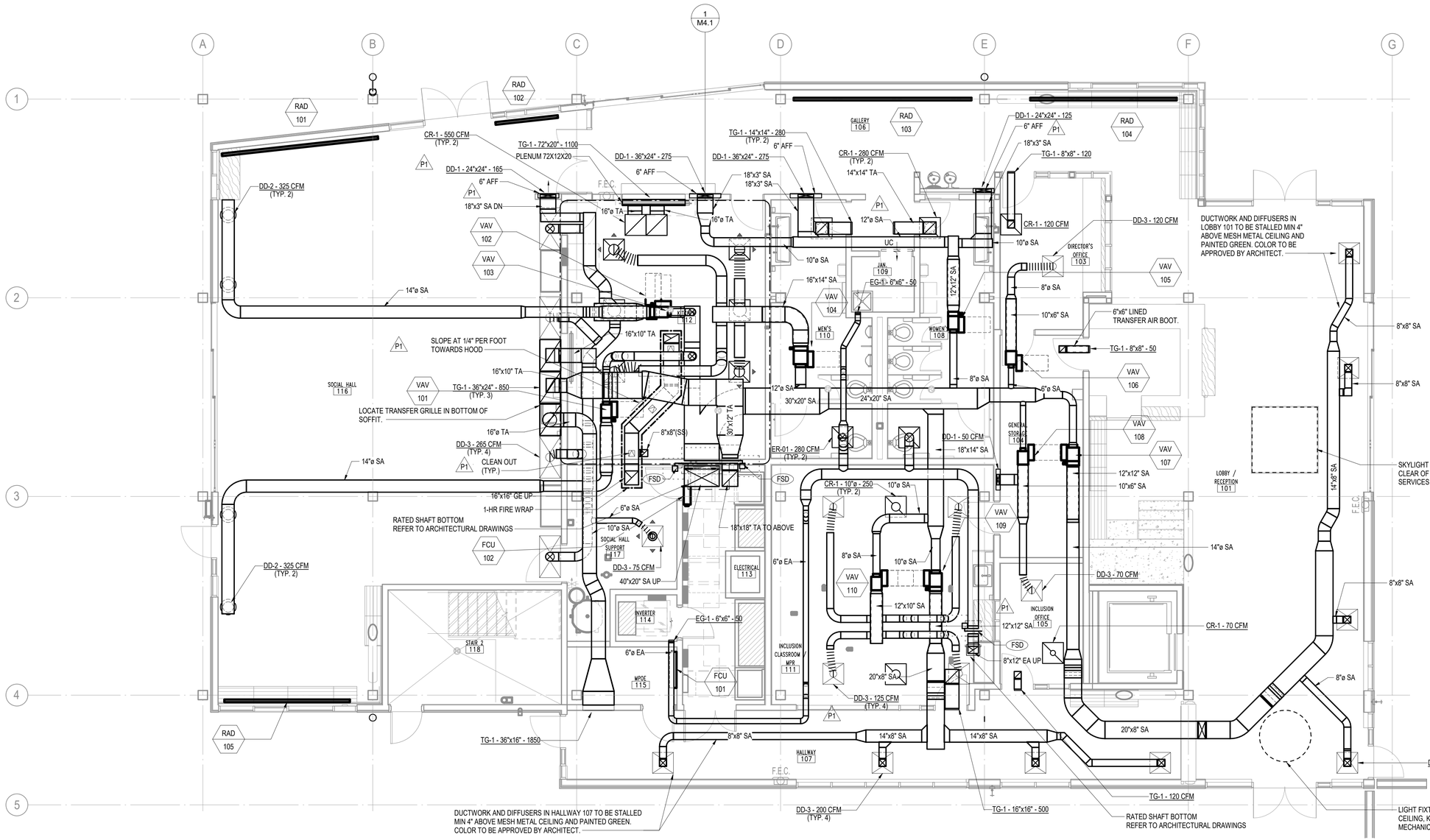
Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:44:55 PM

MECHANICAL GENERAL NOTES:

1. ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH A VOLUME DAMPER. WHERE POSSIBLE, LOCATE VOLUME DAMPERS AT LEAST 8' UPSTREAM OF DIFFUSER FOR ROOMS RATED NC 30 TO 35.
2. PROVIDE A 24X24 CEILING ACCESS PANEL AT EACH VAV TERMINAL UNIT PER CMC 304
3. GREASE EXHAUST DUCT TO BE FULLY WELDED STAINLESS STEEL OR BLACK IRON



1 / M2.1 M02 - FIRST FLOOR
SCALE: 3/16" = 1'-0"

8 4 0 8

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	07/15/2022	100%CD / BID SET

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Drawing Title
MECHANICAL FIRST FLOOR PLAN - PHASE 1

Drawing No.
M2.1

Sheet No.

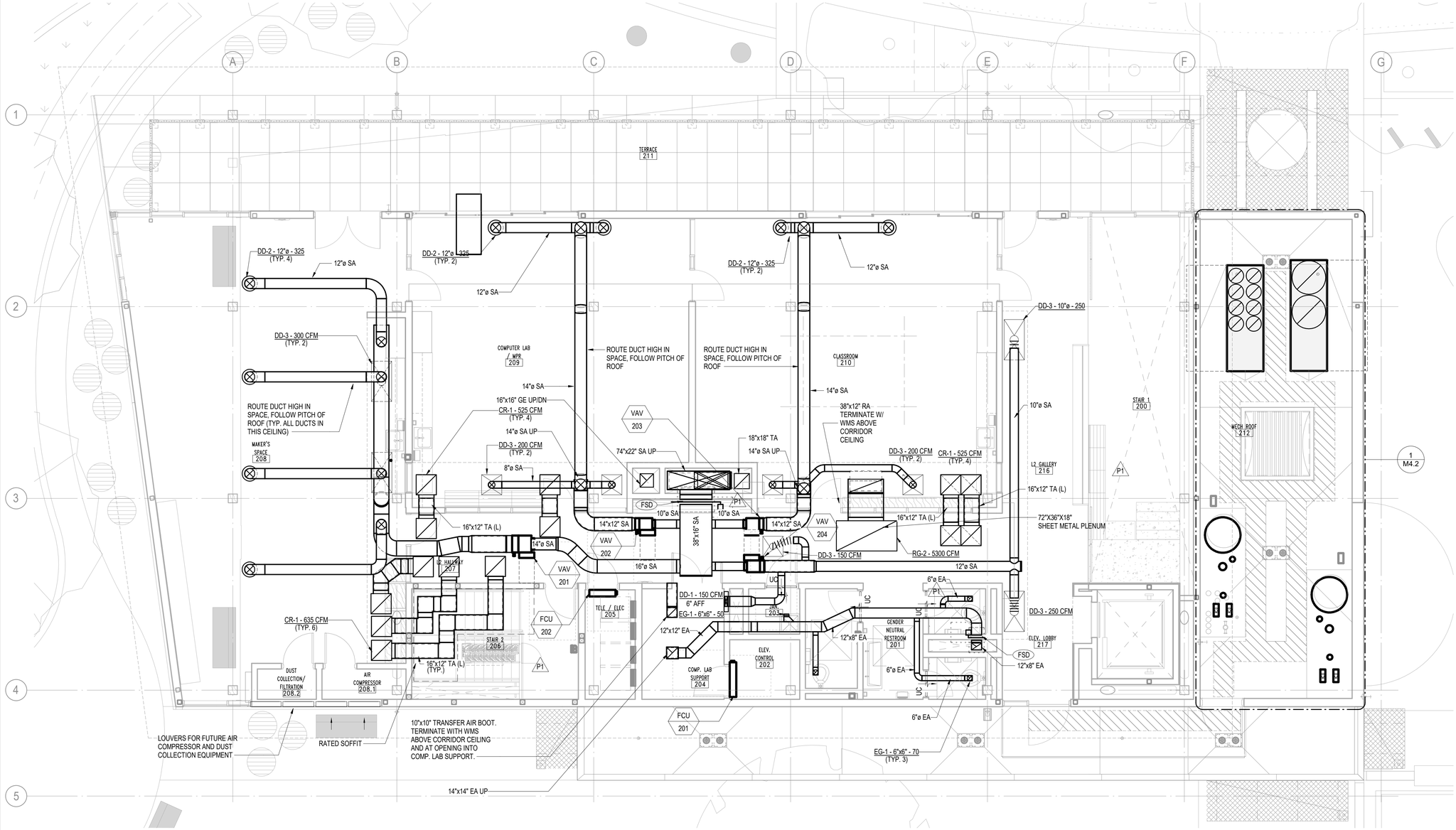
LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:45:53 PM

MECHANICAL GENERAL NOTES:

1. ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH A VOLUME DAMPER. WHERE POSSIBLE, LOCATE VOLUME DAMPERS AT LEAST 8' UPSTREAM OF DIFFUSER FOR ROOMS RATED NC 30 TO 35.
2. PROVIDE A 24X24 CEILING ACCESS PANEL AT EACH VAV TERMINAL UNIT, MAINTAIN 30" CLEAR WORKING AREA ABOVE CEILING PER CMC 304
3. GREASE EXHAUST DUCT TO BE FULLY WELDED STAINLESS STEEL OR BLACK IRON

P1



1 / M2.2 MECHANICAL - SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title

MECHANICAL SECOND FLOOR PLAN - PHASE 1

Drawing No.

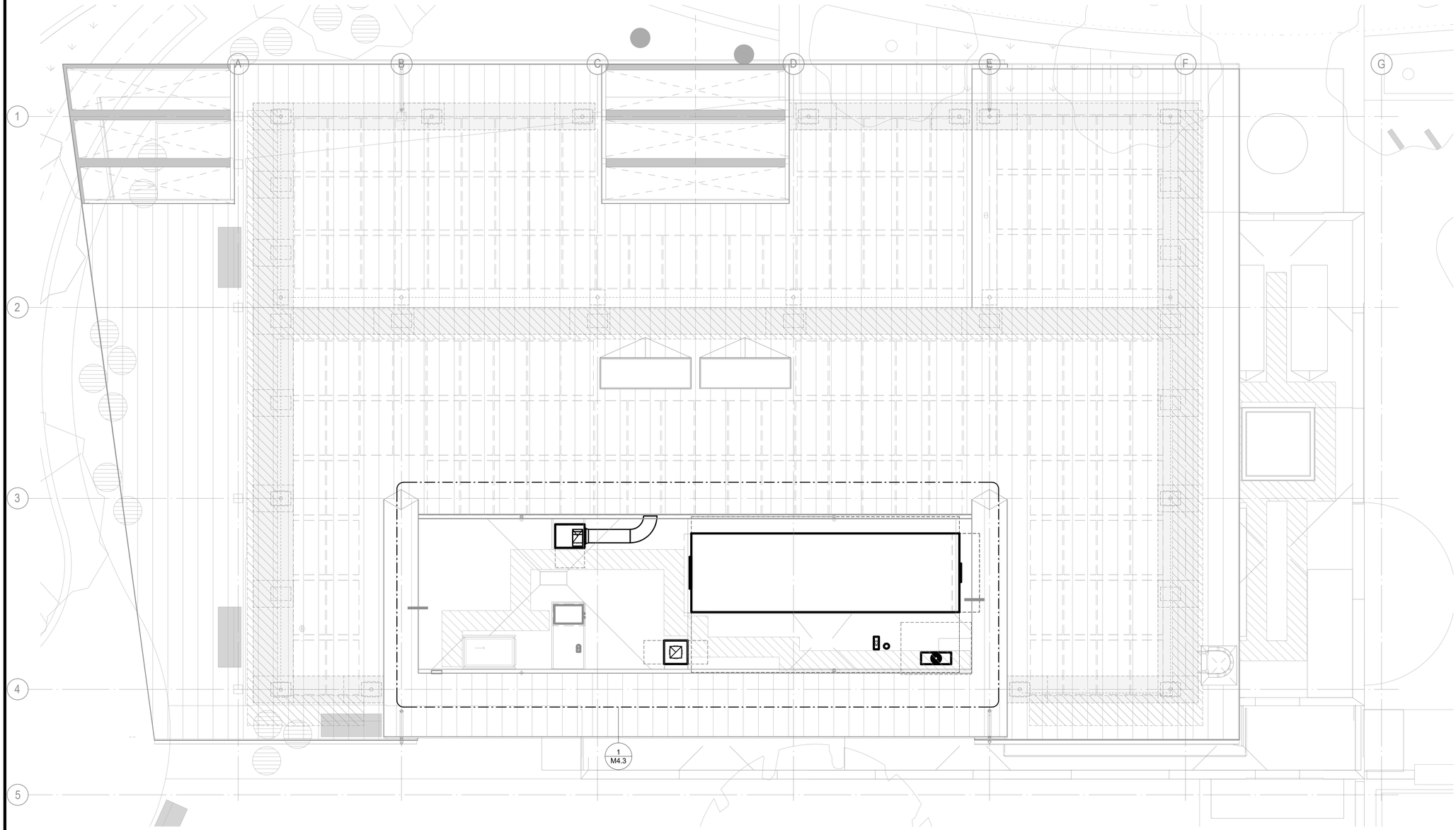
M2.2

Sheet No.

PLOT DATE: 7/15/2022 4:46:05 PM
LMSa PROJECT NUMBER: 1902

MECHANICAL GENERAL NOTES:

1. ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH A VOLUME DAMPER. WHERE POSSIBLE, LOCATE VOLUME DAMPERS AT LEAST 8' UPSTREAM OF DIFFUSER FOR ROOMS RATED NC 30 TO 35.
2. GREASE DUCT SHALL BE STAINLESS STEEL, SLOPED AT 1/4" PER FOOT BACK TO HOODS, AND PROVIDED WITH 1HR FIRE WRAP INSIDE THE BUILDING.



1 / M2.3 MECHANICAL - ROOF LEVEL PLAN
SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title
MECHANICAL ROOF PLAN - PHASE 1

Drawing No.
M2.3

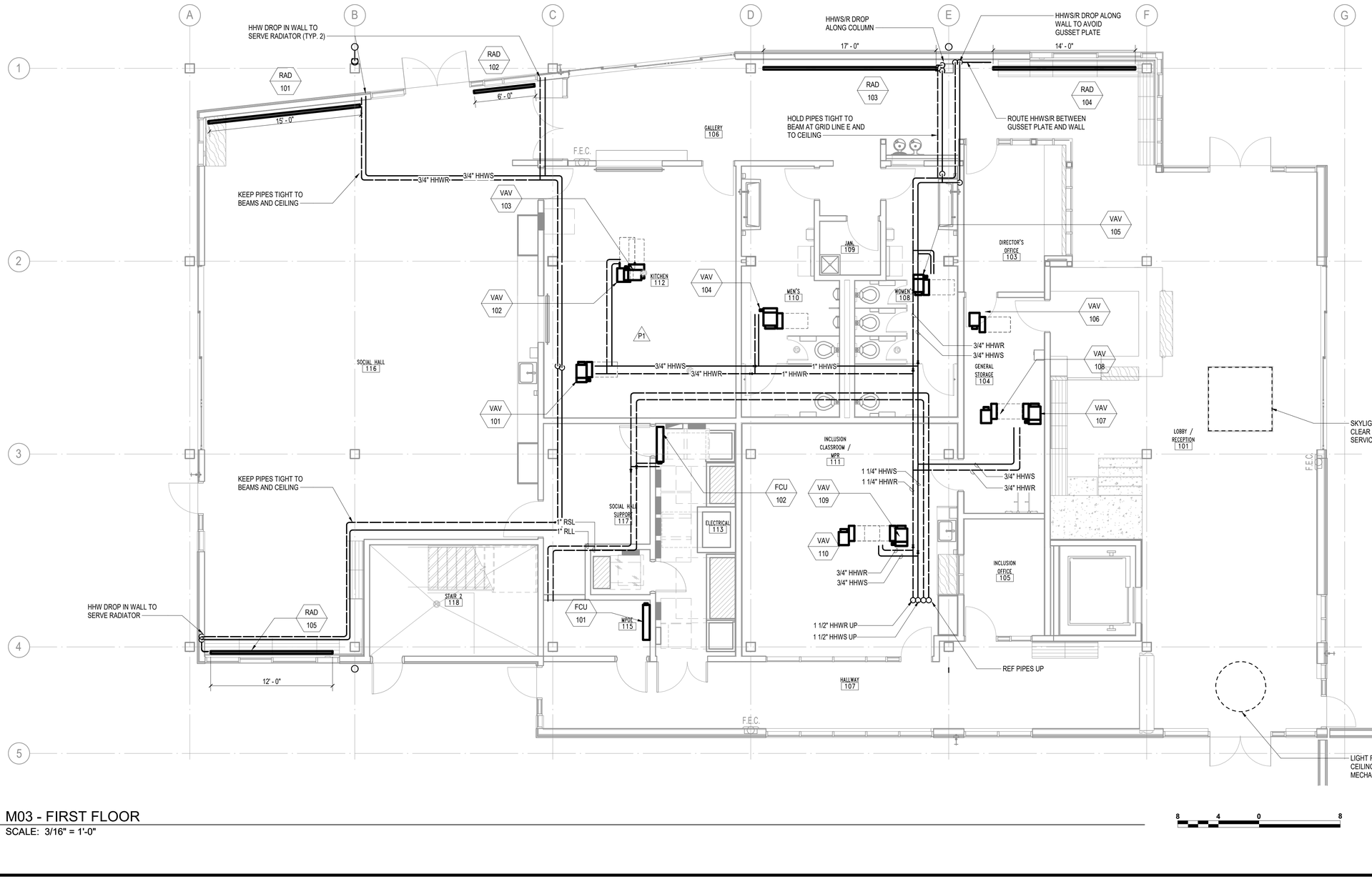
Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:46:13 PM

HYDRONIC GENERAL NOTES:

1. ROUTE ALL PIPING HIGH AND TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED.
2. REFRIGERANT (REF) PIPING SHOWN IS FOR REFERENCE ONLY. MANUFACTURER TO PROVIDE REFRIGERANT PIPE DESIGN, INCLUDING BUT NOT LIMITED TO PIPE SIZES, FITTINGS, AND LENGTHS.



1 / M3.1 M03 - FIRST FLOOR
SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title
HYDRONIC FIRST FLOOR PLAN - PHASE 1

Drawing No.
M3.1

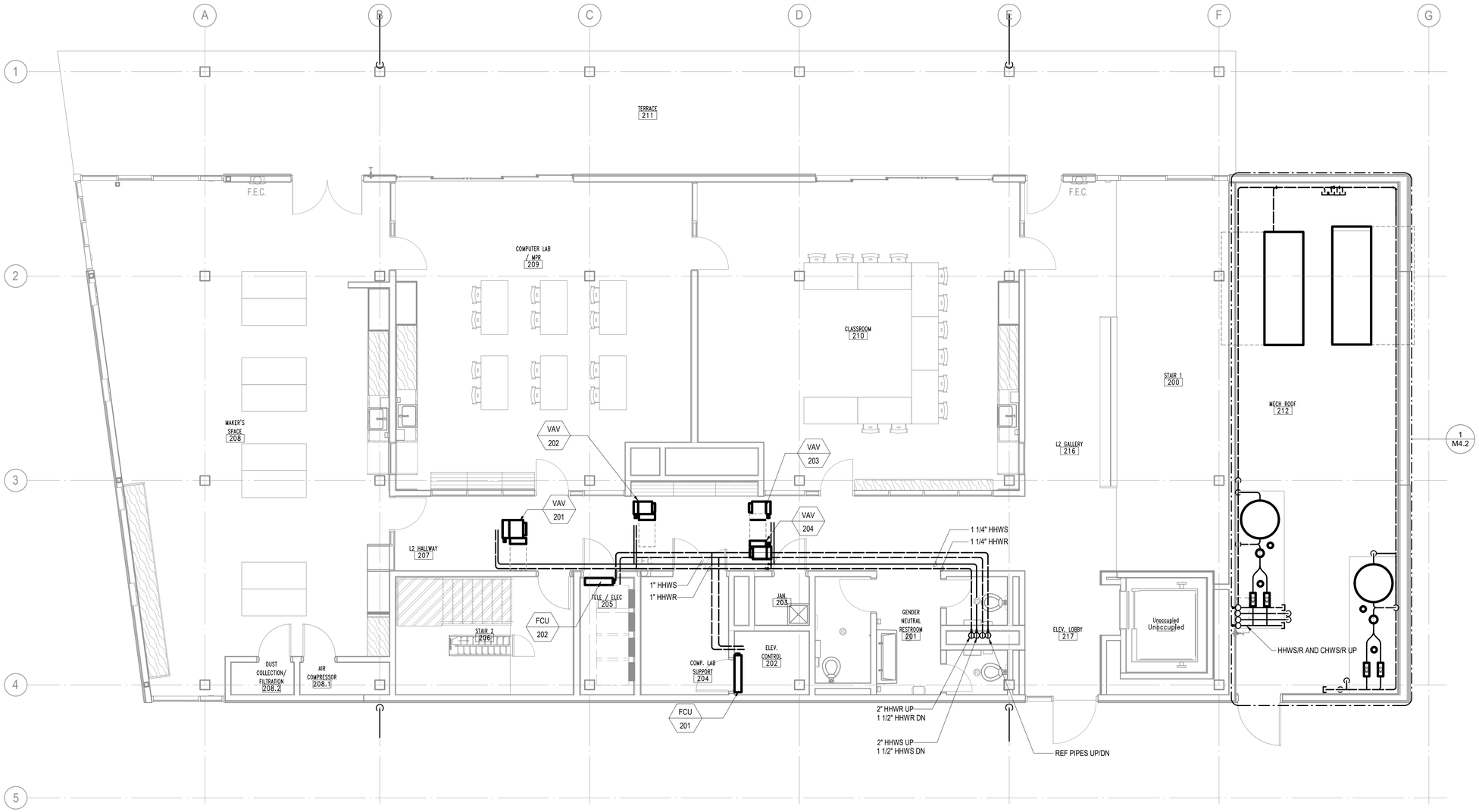
Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:46:19 PM

HYDRONIC GENERAL NOTES:

1. ROUTE ALL PIPING HIGH AND TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED.
2. REFRIGERANT (REF) PIPING SHOWN IS FOR REFERENCE ONLY. MANUFACTURER TO PROVIDE REFRIGERANT PIPE DESIGN, INCLUDING BUT NOT LIMITED TO PIPE SIZES, FITTINGS, AND LENGTHS.



1 / M3.2 MECHANICAL - SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

8 4 0 8

N

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	07/15/2022	100%CD / BID SET

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Drawing Title
HYDRONIC SECOND FLOOR PLAN - PHASE 1

Drawing No.
M3.2

Sheet No.

LMSa PROJECT NUMBER: 1902

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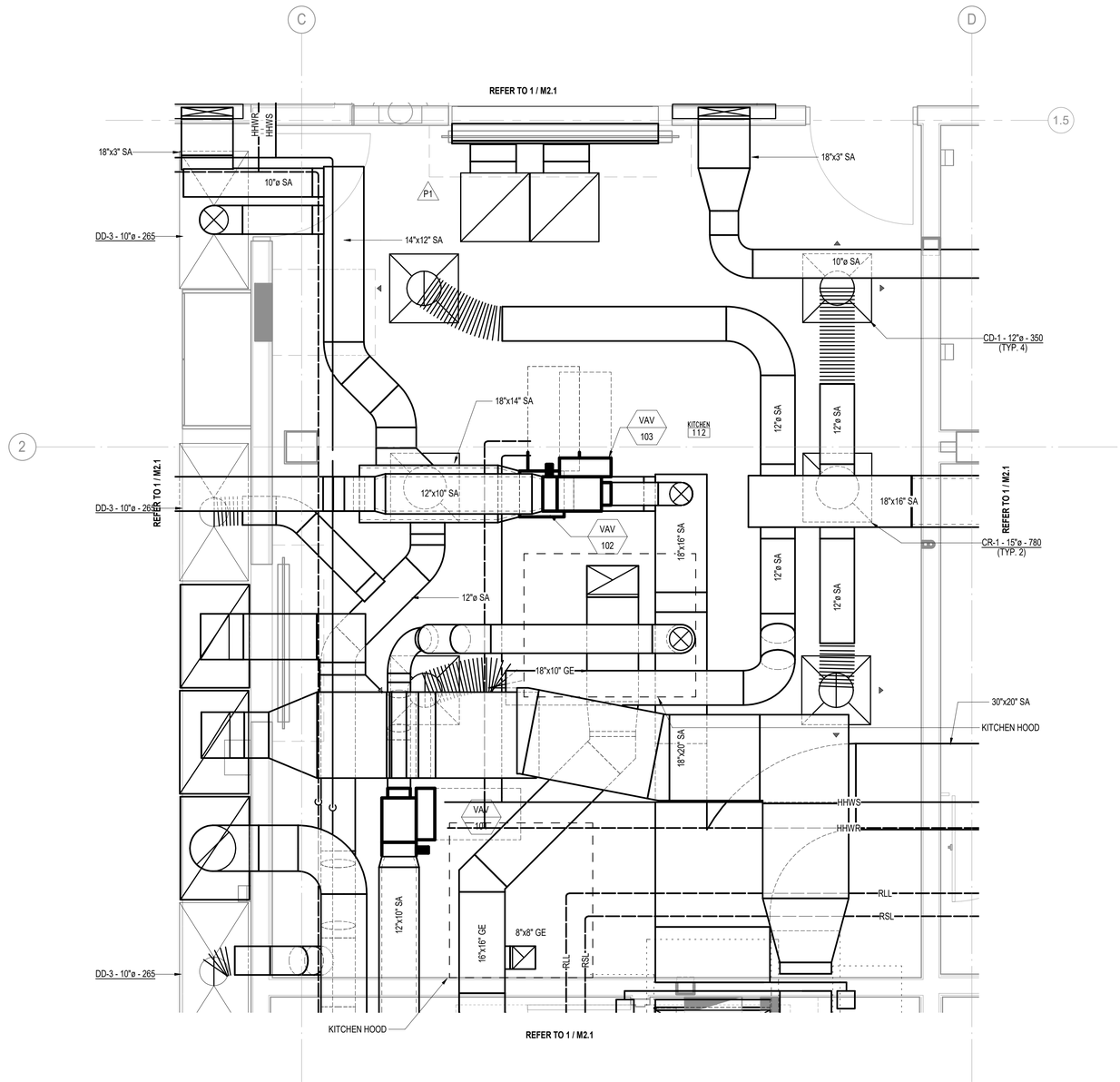

1 / M4.1 M04 - KITCHEN MECHANICAL

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

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Drawing Title

MECHANICAL ENLARGED PLANS - KITCHEN

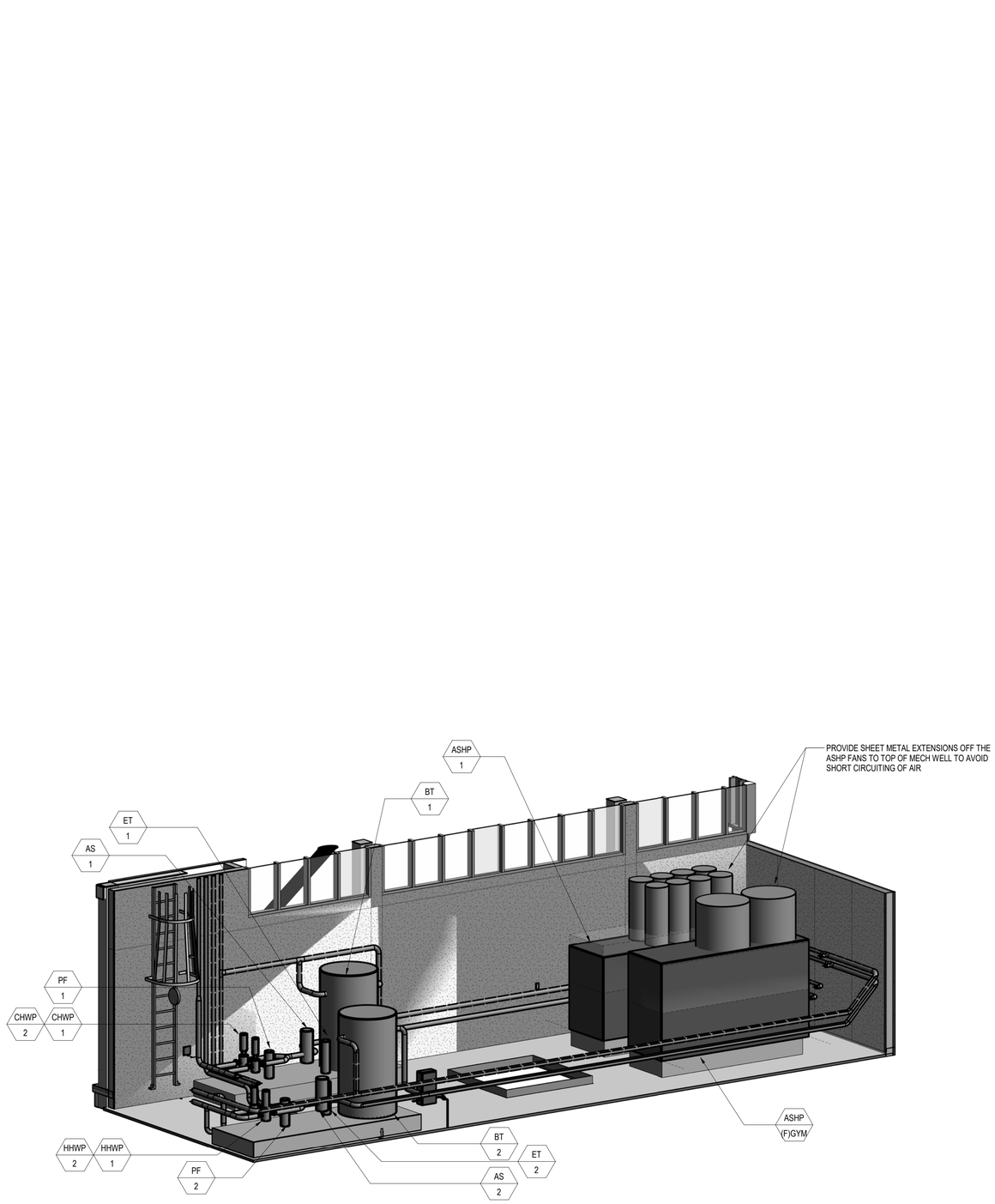
Drawing No.

M4.1

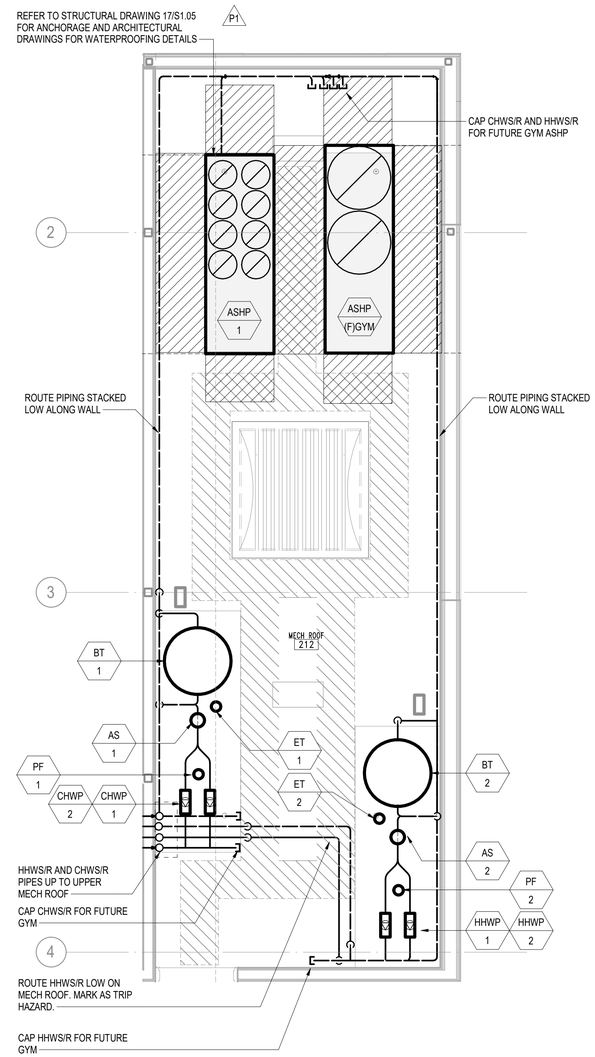
Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:46:31 PM



2 MECHANICAL - LOWER MECHANICAL ROOF 3D



GENERAL NOTES:
A. SEE 1/M5.1 FOR PIPE SIZES.

1 M4.2 MECHANICAL - LOWER MECHANICAL ROOF
SCALE: 1/4" = 1'-0"

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Drawing Title
MECHANICAL ENLARGED PLANS - LOWER MECH ROOF

Drawing No.
M4.2

Sheet No.

LMSA PROJECT NUMBER: 1902

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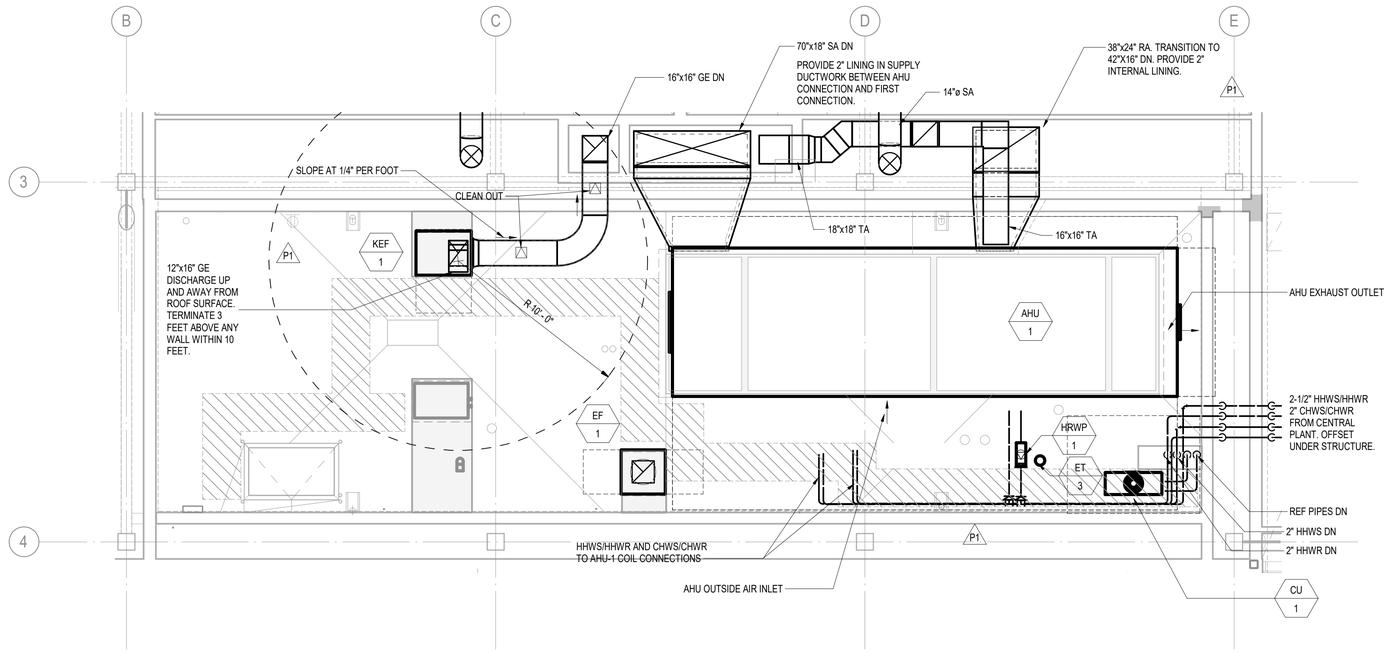
MECHANICAL GENERAL NOTES:

1. ALL BRANCH DUCTS TO DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH A VOLUME DAMPER. WHERE POSSIBLE, LOCATE VOLUME DAMPERS AT LEAST 8' UPSTREAM OF DIFFUSER FOR ROOMS RATED NC 30 TO 35.
2. GREASE EXHAUST DUCT TO BE FULLY WELDED STAINLESS STEEL OR BLACK IRON



1 / M4.3 M04 - UPPER MECHANICAL ROOF

SCALE: 1/4" = 1'-0"

8 4 0 8

N

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Drawing Title

MECHANICAL ENLARGED PLAN - UPPER MECH ROOF

Drawing No.

M4.3

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:46:44 PM

LEVEL 1 KITCHEN AIR BALANCE	
Hood Exhaust, Ehood (CFM):	2,423
Makeup Air, MAid (CFM):	1,400
Net Exhaust, Enet (CFM):	1,023
Transfer Air via adjacent spaces (CFM):	1023 TA available through transfer air boots from social hall and gallery/corridor.
Balance (Net Exhaust - Transfer Air) (CFM):	-
Pressure drop of transfer duct and grilles (in...	n/a < 0.02 in w.c. per CMC 511.3

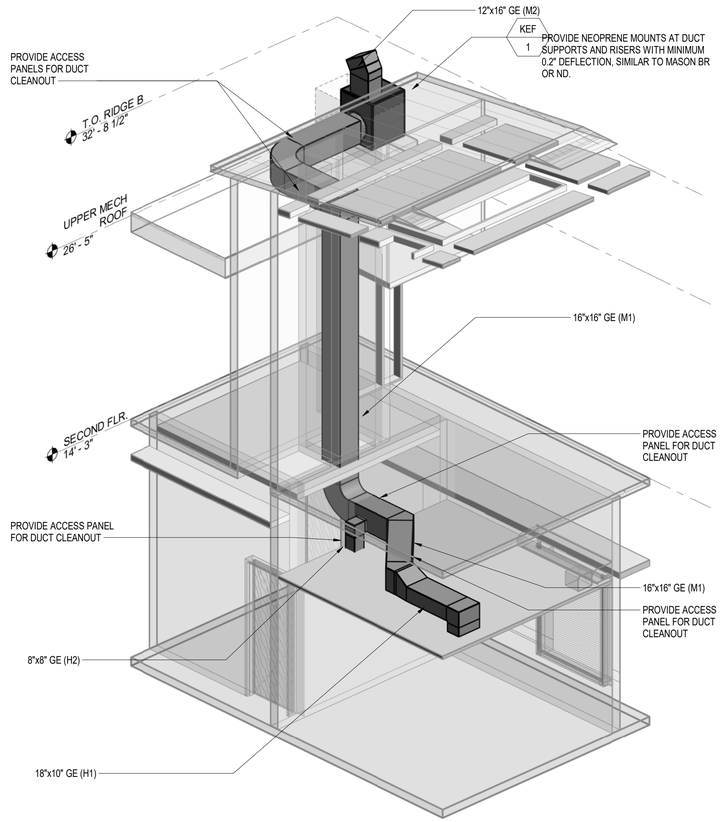
GREASE DUCT AIR VELOCITY CALCULATION - LEVEL 1 KITCHEN				
Branch ID*:	Duct Size (IN):	Airflow (CFM):	Duct Area (ft^2):	Velocity (FPM):
H1	18x10	1750	1.25	1400
B1	16x16	1750	1.78	984
H2	8x8	673	0.44	1514
M1	16x16	2423	1.78	1363
M2	12x16	2423	1.33	1817
Air velocity is between 500 and 2500 fpm in all grease duct sizes per CMC 511.2				
* (H#) = DUCT TO HOOD, (B#) = BRANCH DUCT, (M#) = MAIN DUCT				

EXHAUST REQUIREMENT FOR LEVEL 1 KITCHEN*	
Hood #	Airflow (CFM)
HOOD 1	1,750
HOOD 2	673
Total Required Exhaust:	**2,423 CFM**
KEF-1 Scheduled Airflow:	**2,500 CFM**
*Refer to Kitchen Consultant drawings for hood numbers, airflows, etc.	

NOTES:

1. ALL GREASE DUCT SHALL BE STAINLESS STEEL AND 1HR FIRE WRAPPED.
2. SLOPE GREASE DUCT AT 1/4" PER FOOT BACK TO THE HOODS.
3. PROVIDE CLEAN OUTS IN LOCATIONS SHOWN ON FLOOR PLANS

P1



1 GREASE DUCT 3D

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Drawing Title
MECHANICAL 3D VIEW - GREASE DUCT SYSTEM

Drawing No.
M4.4

Sheet No.

LMSA PROJECT NUMBER: 1902

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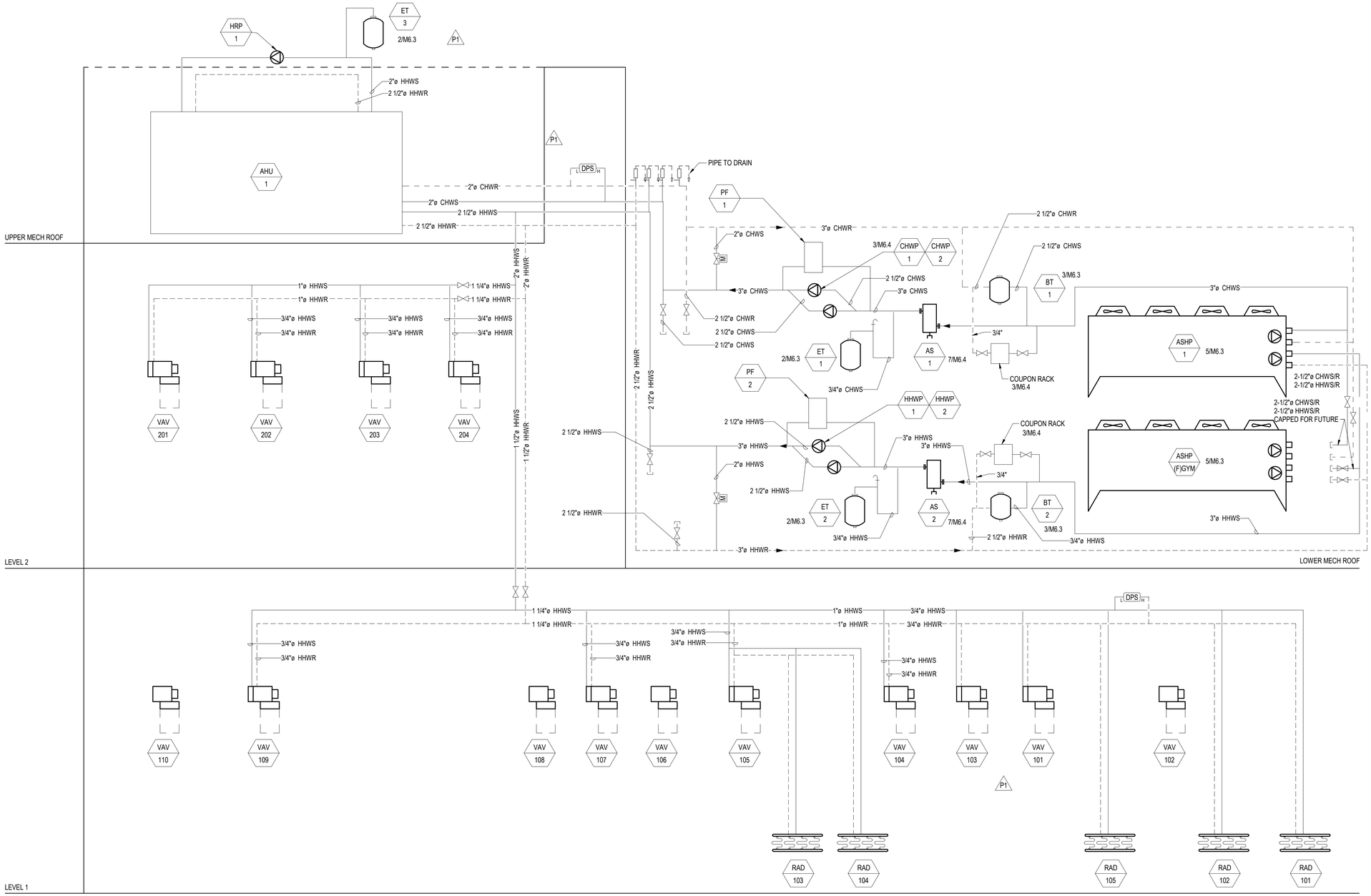

GENERAL NOTES:

A. REFER TO MECHANICAL DETAIL SHEETS M6.1 THROUGH M6.5 AND MECHANICAL CONTROL SHEETS M7.1 AND M7.2 FOR PIPING, TRIM, AND CONTROL DEVICE REQUIREMENTS AND LOCATIONS.

1 MOSSWOOD HYDRONIC DIAGRAM
NTS

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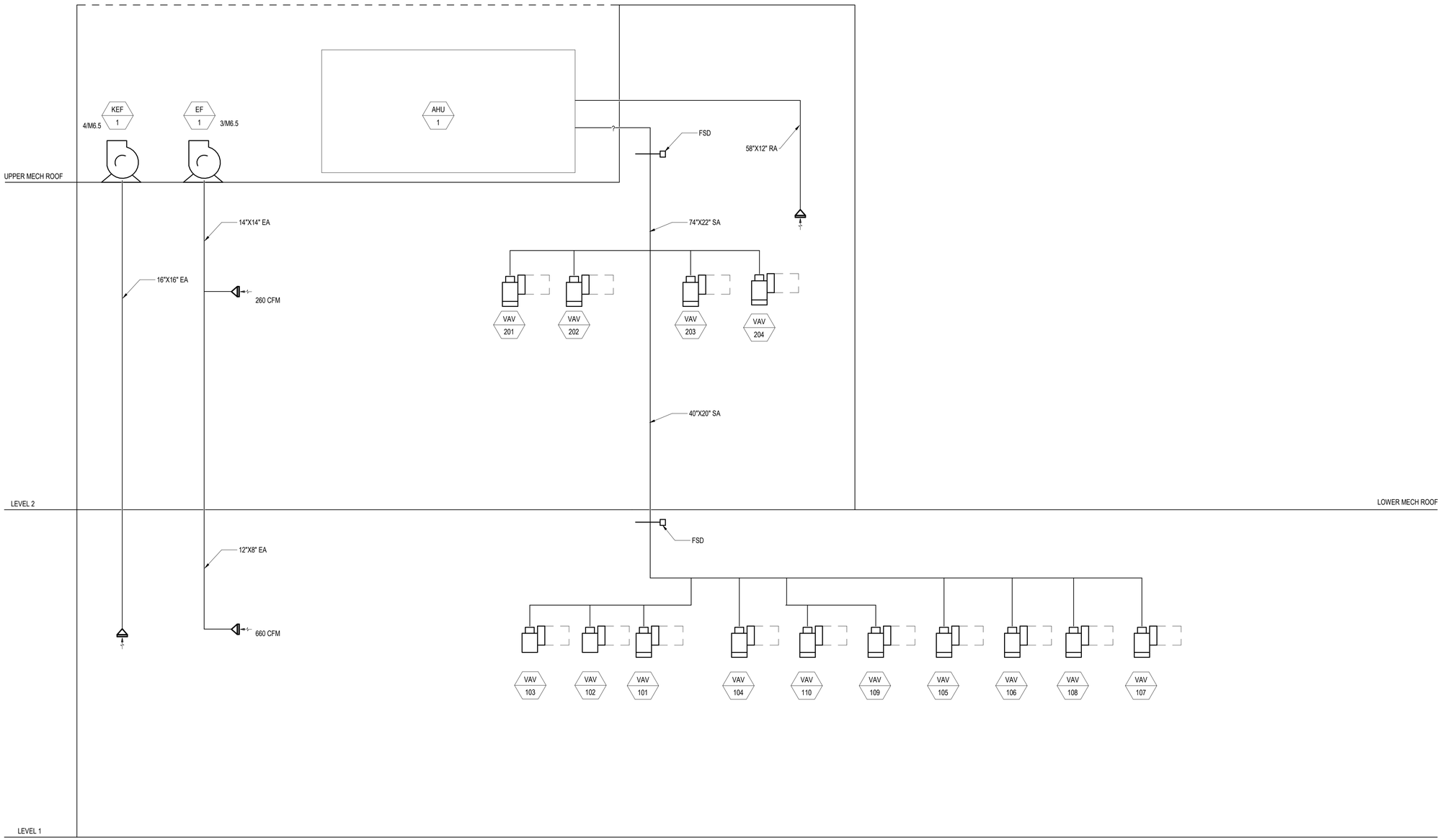
Drawing Title
MECHANICAL DIAGRAMS - HYDRONIC

Drawing No.
M5.1

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:46:38 PM



P1

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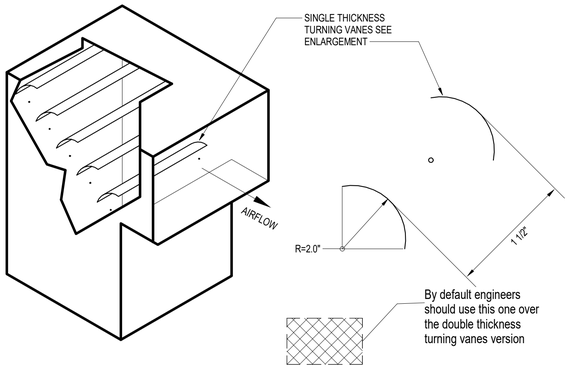
Drawing Title
MECHANICAL DIAGRAMS - AIR

Drawing No.
M5.2
Sheet No.

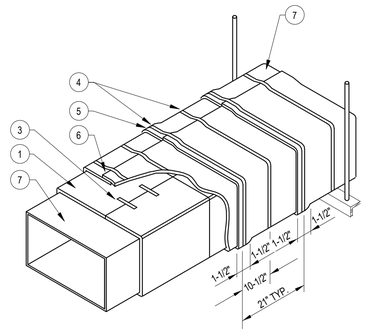
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:47:01 PM



NOTES:

1. TURNING VANES REQUIRED AT ALL 90° RECTANGULAR DUCT ELBOWS UNLESS NOTED OTHERWISE.

8 RECTANGULAR DUCT ELBOW W/ SGL VANE
NTS



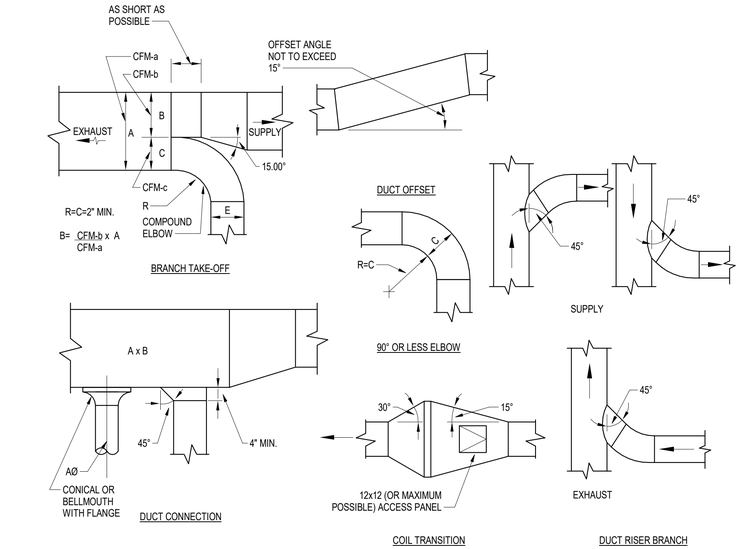
(#) SHEET NOTES:

1. FIRST LAYER 3M (OR EQUIVALENT) FIRE BARRIER DUCT WRAP.
2. NOT USED.
3. 3/4" WIDE FILAMENT TAPE.
4. STEEL BANDING 1/2" WIDE MIN. TYPICAL FOR PERMANENT FASTENING.
5. LONGITUDINAL JOINT BUTT OR MIN. 3" OVERLAP ON INNER LAYER, MIN. 3" OVERLAP ON OUTER LAYER.
6. PERIMETER (LATERAL) JOINT BUTT OR MIN. 3" OVERLAP ON INNER LAYER, MIN. 3" OVERLAP ON OUTER LAYER.
7. METALLIC COMMERCIAL COOKING EXHAUST DUCT.

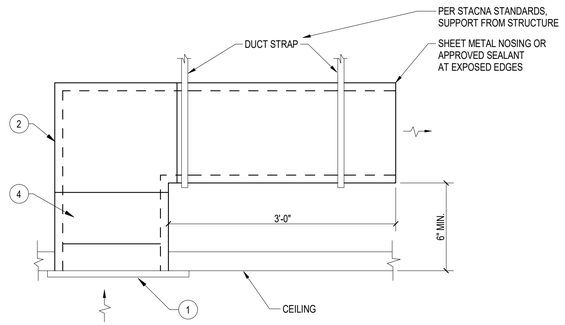
NOTE:

1. DETAIL SHOWN IS FOR DUCTS 24" WIDE OR LESS. DUCTS WIDER THAN 24" REQUIRE PINNING ON THE BOTTOM SIDE OF HORIZONTAL DUCTS AND ON A MINIMUM OF ONE OF THE WIDER SIDES OF A VERTICAL DUCT. VERTICAL DUCTS LARGER THAN 48" TO HAVE PINNING ON ALL SIDES.

5 RATED GREASE DUCT WRAP DETAIL
NTS



2 LOW PRESSURE DROP DUCT FITTINGS DETAIL
NTS

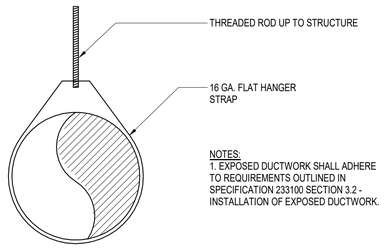


NOTES:

1. RETURN AIR GRILLE OR REGISTER. GRILLE OR REGISTER TO BE SIZED FOR TRANSFER AIR FUNCTION. SEE DIFFUSER SCHEDULE FOR SIZES.
2. 1" CLOSED CELL ELASTOMERIC INTERNAL ACOUSTICAL LINING.
3. IF CEILING SPACE IS LIMITED, SIZE HORIZONTAL DUCT TO UTILIZE MAXIMUM AVAILABLE HEIGHT AND PROVIDE WIDTH TO ASSURE NO MORE THAN 300 FPM DUCT VELOCITY.
4. DUCT SIZE TO MATCH REGISTER NECK SIZE DIFFUSER, REGISTER AND GRILLE SCHEDULES UNLESS OTHERWISE NOTED.

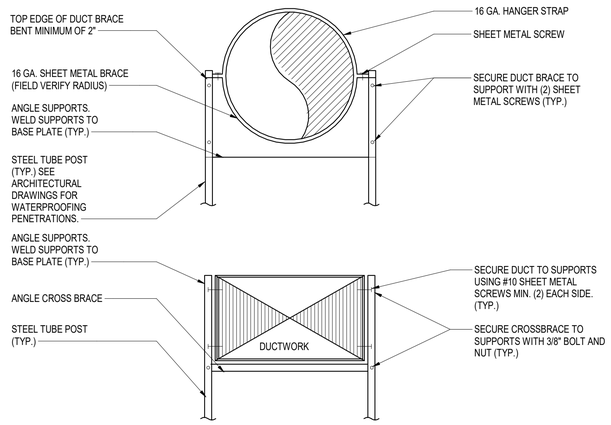
6 RETURN AIR BOOT
12" = 1'-0"

P1

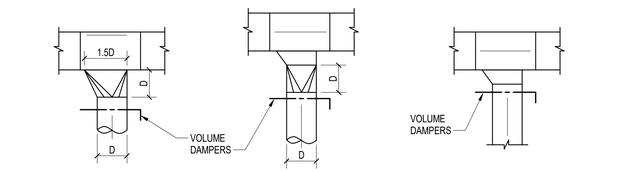


NOTES:
1. EXPOSED DUCTWORK SHALL ADHERE TO REQUIREMENTS OUTLINED IN SPECIFICATION 233100 SECTION 3.2 - INSTALLATION OF EXPOSED DUCTWORK.

4 DUCT SUPPORT IN EXPOSED AREAS
N.T.S.

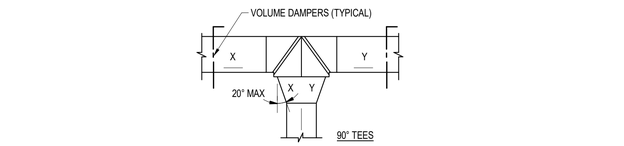


3 DUCT SUPPORT ON ROOF DETAIL - NON DSA
NTS



ROUND DUCT TAKE-OFF FROM RECTANGULAR MAIN (EITHER)

BRANCH TAKEOFFS OMIT VOLUME DAMPERS IN VAV PRIMARY AIR DUCT SYSTEMS



OFFSETS 90° RADIUS ELBOWS

1 DUCTWORK CONSTRUCTION DETAILS - ALL PRESSURE CLASSES
NTS

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Drawing Title
MECHANICAL DETAILS

Drawing No.
M6.1
Sheet No.

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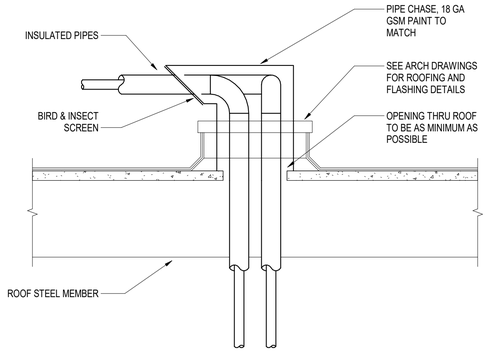
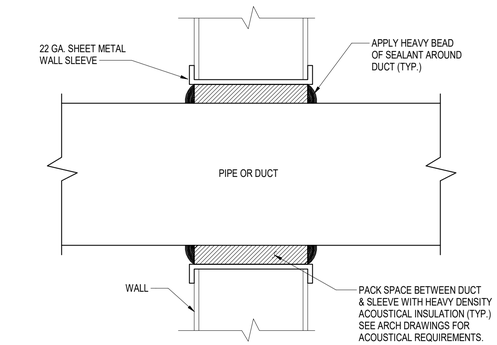


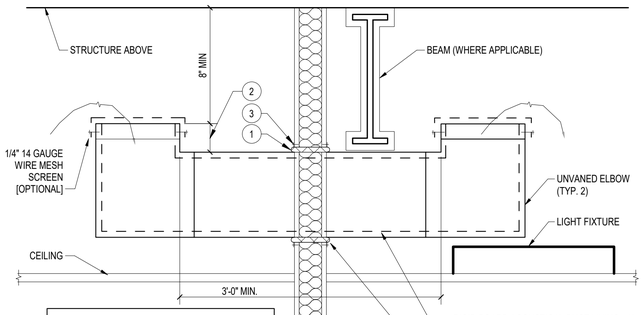
NOTES:

1. PIPING SECURED BY MINIMUM 1/4" BANDS TO ROOF STRUCTURE

3 PIPE THROUGH ROOF DETAIL
NTS



2 PIPE/DUCT PENETRATION THROUGH INTERIOR WALL
NTS

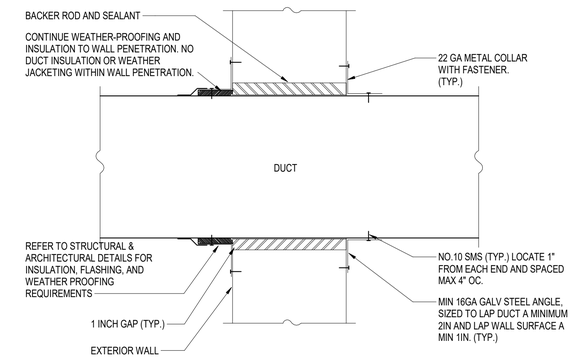


SIZING CHART	
CFM	SIZE (IN.) (4)
UP TO 400	12X12
401 TO 600	18X12
601 TO 800	24X12
801 TO 1000	30X12
OVER 1000	USE MULTIPLE TRANSFER DUCTS

NOTES:

1. SEAL DUCT THROUGH ACOUSTICAL PARTITION PENETRATION ON ALL SIDES AIRTIGHT.
2. PROVIDE 3" MIN. HIGH DUCT BOOT WHERE SPACE PERMITS.
3. SHEET METAL SLEEVE.
4. OR EQUIVALENT CROSS-SECTIONAL AREA.

5 TYPICAL RECTANGULAR TRANSFER AIR BOOT
12" = 1'-0"



1 DUCT PENETRATION THROUGH EXTERIOR WALL DETAIL
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Drawing Title
MECHANICAL DETAILS

Drawing No.
M6.2

Sheet No.

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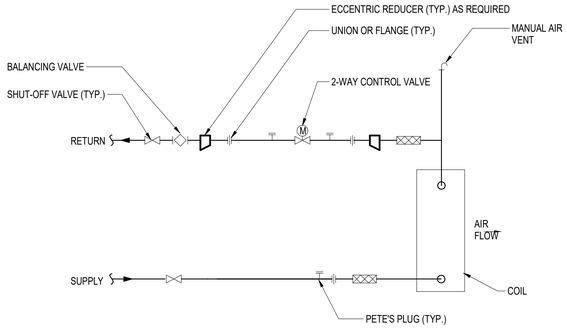
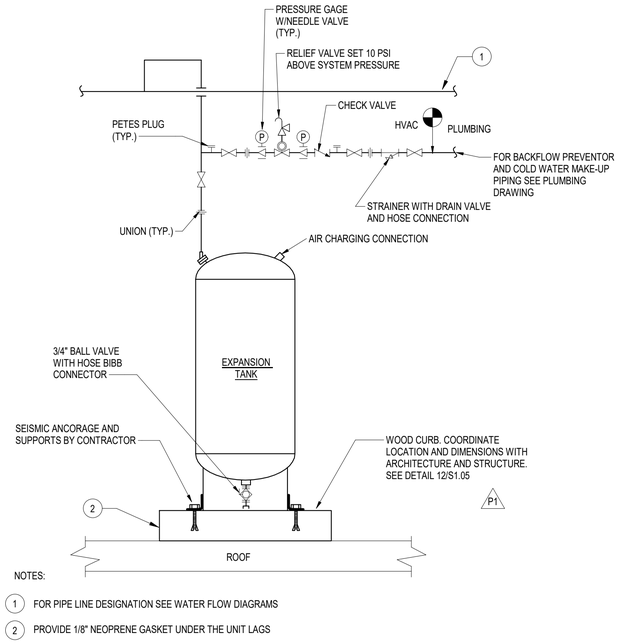


NOTES:

1. ALL PIPE SIZES SHALL BE AS SHOWN ON SCHEDULES AND PIPING DIAGRAMS. PIPE SIZE REDUCTION IS PERMITTED AT CONTROL VALVE AND COIL CONNECTIONS ONLY.
2. LOCATE COIL HOOK-UP PIPING IN ACCESSIBLE LOCATION FOR MAINTENANCE WITH NO OBSTRUCTIONS TO COIL REMOVAL.
3. LOCATE AIR VENT COCK DRAIN TO EITHER:
   A. 6 IN. ABOVE ACCESS PANEL IN INACCESSIBLE CEILING.
   B. 6 IN. ABOVE CEILING WHERE ACCESSIBLE CEILING IS USED.
   INSTALL IN PIPING WHEN PIPING IS ABOVE THE MAIN AND AT COIL WHEN PIPING IS BELOW MAIN.
4. PROVIDE FLEXIBLE HOSE CONNECTION AS FOLLOWS:
   A. MIN. 18 INCH LONG FOR PIPES UP TO 1" DIA.
   B. MIN. 24 INCH LONG FOR PIPES 1-1/4" AND LARGER.
5. MINIMIZE FITTINGS, USE LONG RADIUS 90 DEGREE ELBOWS AND 45 DEGREE FITTINGS ONLY.

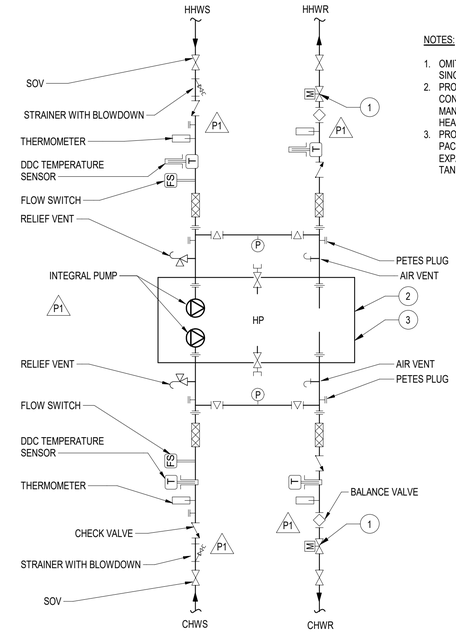
4 COIL HOOK-UP PIPING (VAV, RC, FCU) 2-WAY VALVE DETAIL
NTS



NOTES:

1. FOR PIPE LINE DESIGNATION SEE WATER FLOW DIAGRAMS
2. PROVIDE 1/8" NEOPRENE GASKET UNDER THE UNIT LAGS

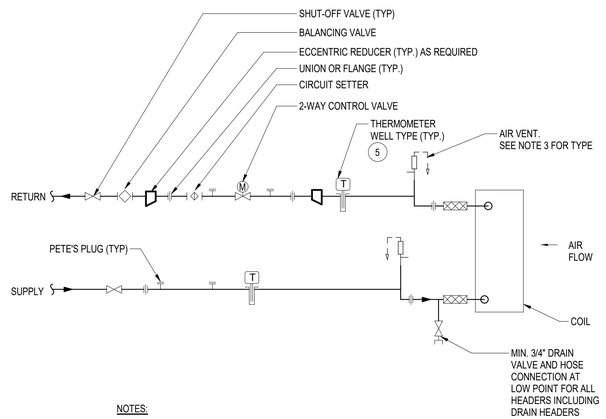
2 EXPANSION TANK BASE MOUNTING DETAIL
NTS



NOTES:

1. OMIT MOTORIZED VALVE ON SINGLE HEAT PUMP APPLICATIONS.
2. PROVIDE INTEGRATOR CONTROLLER BY HEAT PUMP MANUFACTURER ON MULTIPLE HEAT PUMP APPLICATIONS.
3. PROVIDE MANUFACTURER'S PUMP PACKAGE INCLUDING PUMP EXPANSION TANK AND BUFFER TANK

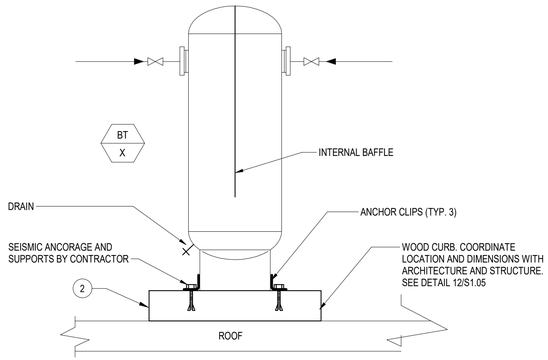
5 HEATPUMP PIPING DETAIL
N.T.S.



NOTES:

1. ALL PIPE SIZES SHALL BE AS SHOWN ON PIPING DIAGRAMS. PIPE SIZE REDUCTION IS PERMITTED AT CONTROL VALVE AND COIL CONNECTIONS ONLY.
2. OFFSET COIL PIPE CONNECTIONS AND LOCATE PIPE UNIONS OR FLANGES AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
3. PROVIDE ROOFTOP EQUIPMENT WITH AUTOMATIC AIR VENT, PIPED TO AN APPROVED RECEPTOR. PROVIDE MANUAL AIR VENTS FOR ALL OTHERS. INSTALL IN PIPING WHEN PIPING IS ABOVE THE MAIN AND AT COIL WHEN PIPING IS BELOW MAIN.
4. MINIMIZE FITTINGS, USE LONG RADIUS 90 DEGREE ELBOWS AND 45 DEGREE FITTINGS ONLY.
5. FOR PIPE SIZES SMALLER THAN 2-1/2", PROVIDE 12" LENGTH OF 2'1/2" PIPE TO FIT THERMOMETER WELL.

3 AHU SINGLE COIL PIPING (2 WAY-VALVE) DETAIL
NTS



2-PIPE WATER BUFFER TANK

NOTES:

1. FOR PIPE LINE DESIGNATION SEE WATER FLOW DIAGRAMS
2. PROVIDE 1/8" NEOPRENE GASKET UNDER THE UNIT ANCHOR CLIPS

6 BUFFER TANK PIPING DETAIL
NTS

P1

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M6.3

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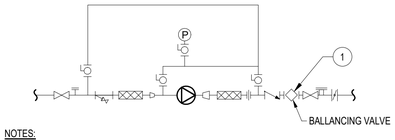
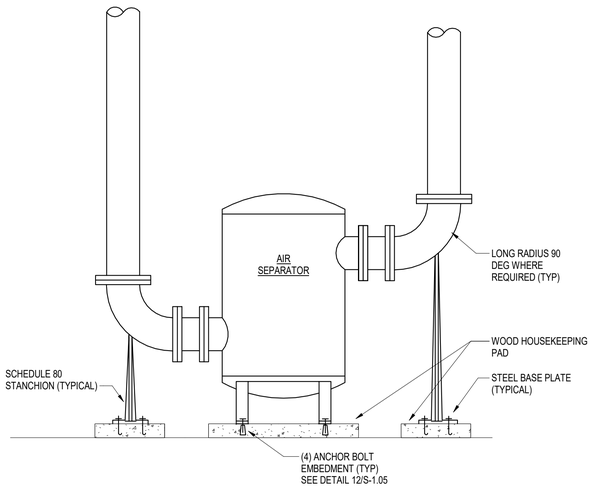


NOTES:

1. BALANCE VALVE TO BE OMITTED ON ALL VARIABLE SPEED PUMPS.

8 PUMP PIPING DETAIL
NTS



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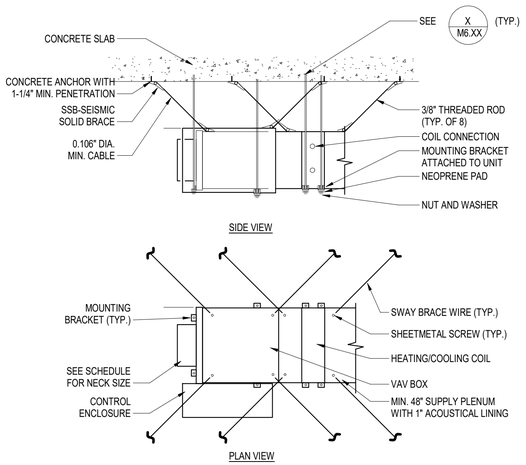
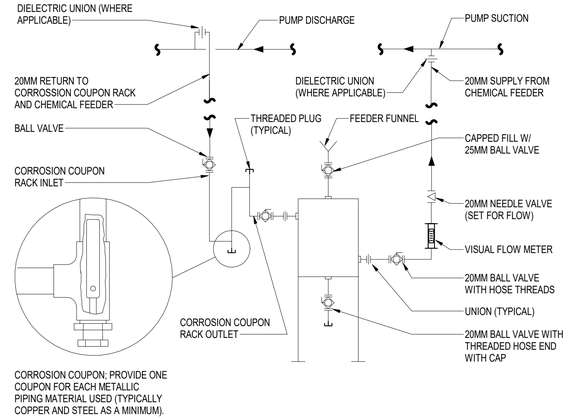


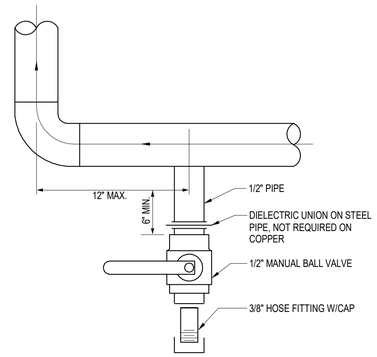
NOTE:

1. PROVIDE CONDENSATE PAN. PAN MUST EXTEND 4" BEYOND COIL FACE IN ALL DIRECTIONS. PLUMBING CONTRACTOR MUST TIE THE DRAIN PAN LINE TO THE INDIRECT WASTE.
2. MOUNT WITH 1"x20 GA SHEETMETAL AND STRAP SECURE WITH SHEETMETAL SCREWS.



CORROSION COUPON; PROVIDE ONE COUPON FOR EACH METALLIC PIPING MATERIAL USED (TYPICALLY COPPER AND STEEL AS A MINIMUM).

3 CHEMICAL SHOT FEEDER WITH CORROSION COUPON RACK
NTS



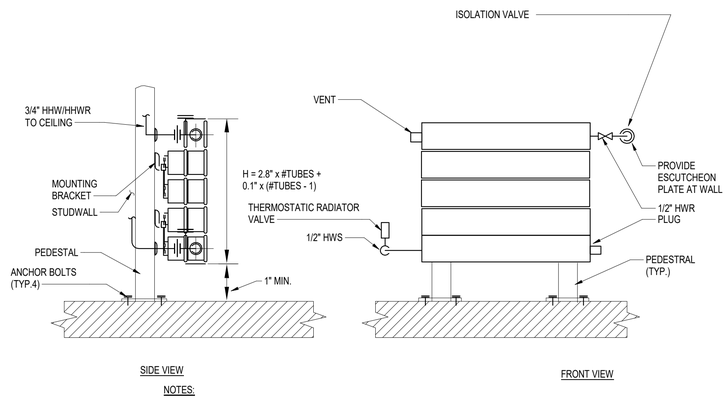
NOTES:

1. WELDED PIPE FITTING SHOWN. THREADED FITTING SIMILAR.
2. INSTALL AT ALL LOW POINTS WITHIN 12" OF DOWNWARD FLOW FITTING

7 AIR SEPARATOR MOUNTING ON PAD DETAIL
NTS

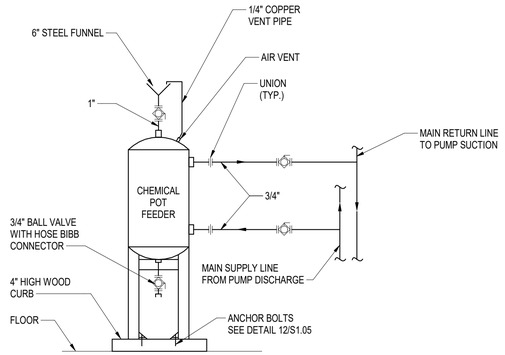
5 VAV BOX MOUNTING DETAIL
NTS

2 HVAC DRAIN DETAIL
NTS



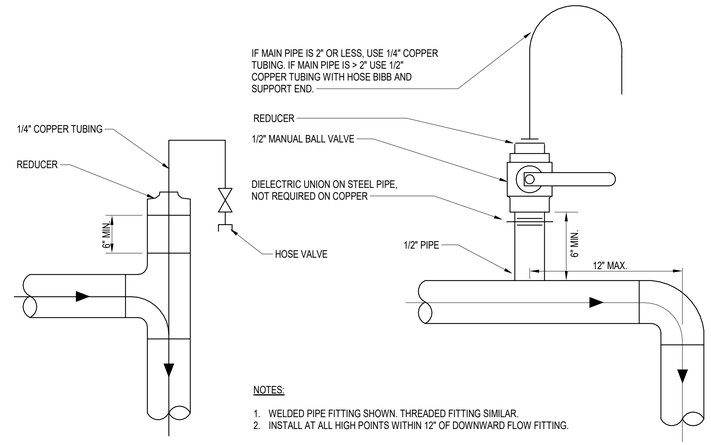
NOTES:

1. PROVIDE REMOTE THERMOSTATIC VALVE AND WALL SENSOR.
2. PIPE TO CEILING WITHIN STUD WALL CAVITY OR EXPOSED ON WALL



NOTES:

1. PROVIDE 1/8" NEOPRENE GASKET UNDER THE UNIT LEGS.



NOTES:

1. WELDED PIPE FITTING SHOWN. THREADED FITTING SIMILAR.
2. INSTALL AT ALL HIGH POINTS WITHIN 12" OF DOWNWARD FLOW FITTING.

6 HORIZONTAL WALL MOUNT RADIATOR DETAIL
NTS

4 CHEMICAL POT FEEDER DETAIL
NTS

1 HVAC AIR VENT DETAIL
NTS

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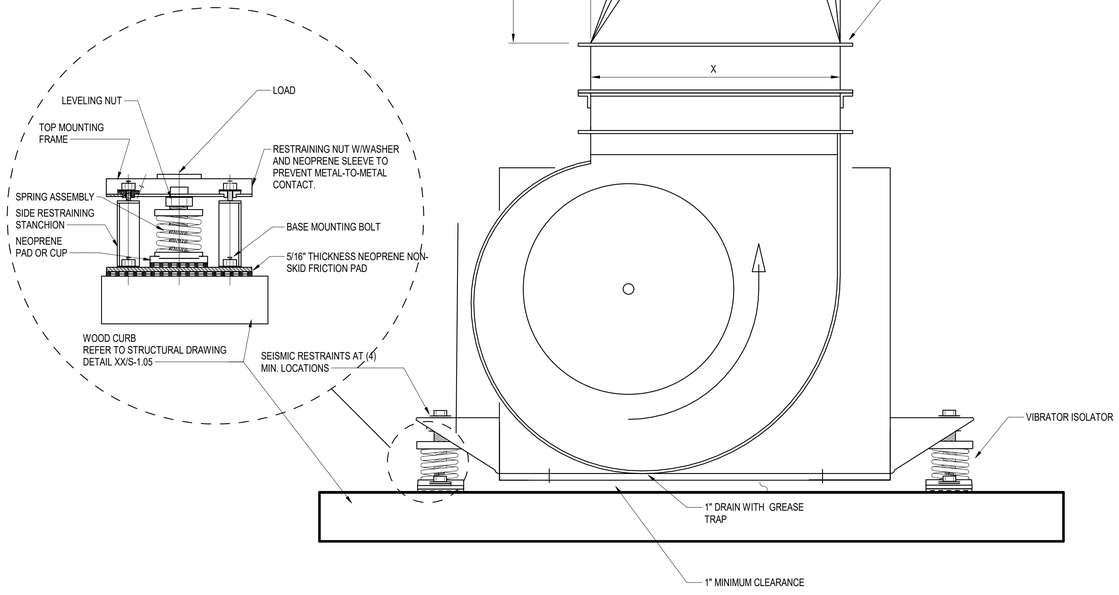
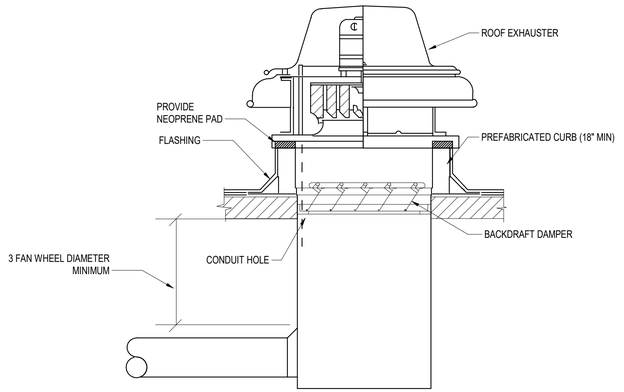


4 GREASE EXHAUST FAN DETAIL
NTS

P1



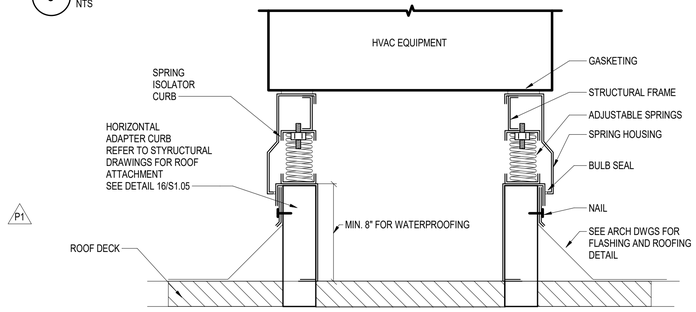
P1

(DIRECT DRIVE WITH BACKDRAFT DAMPER

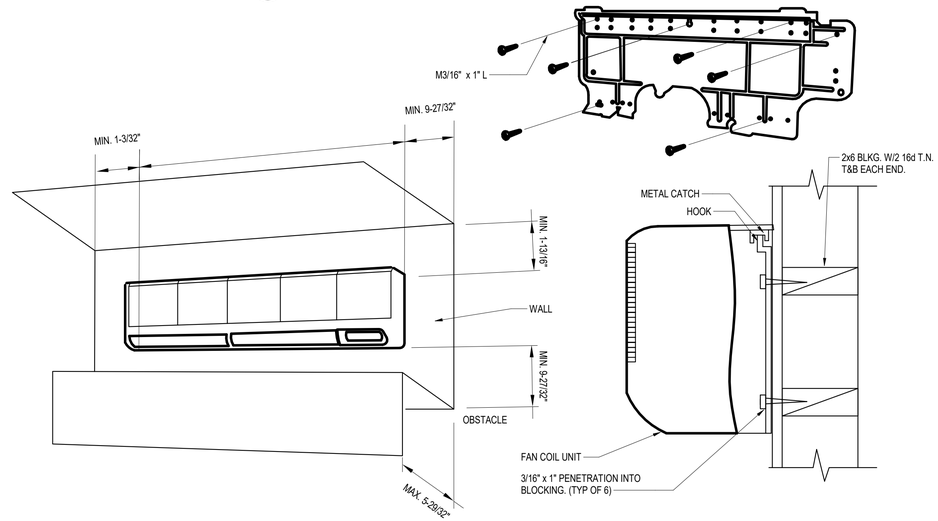
DESIGN NOTES:

1. CHECK ROOF CONSTRUCTION AND FLASHING WITH ARCHITECTURAL DRAWINGS
2. NOTE IF BACKDRAFT DAMPERS ARE GRAVITY OR MOTOR OPERATED. SEE DETAIL 109 FOR FAN MOUNTING WITHOUT BACKDRAFT DAMPERS
3. COORDINATE WITH SPECIFICATIONS
4. COORDINATE STARTER & DISCONNECT WITH ELECTRICAL DEPARTMENT.
5. ALL FANS OVER 2000 CFM SHALL HAVE SUFFICIENT STRAIGHT DUCT TO ACCOMMODATE SHOW DETECTOR, COORDINATE WITH ELECTRICAL DEPARTMENT.

3 ROOF EXHAUST DOWNBLAST FAN MOUNTING
NTS



2 ISOLATION CURB INSTALLATION DETAIL
NTS



NOTES:

1. UNLESS SHOWN OTHERWISE ON PLANS, INSTALL WALL HUNG FAN COIL UNITS ABOVE THE DOOR.

1 WALL HUNG FAN COIL UNIT DETAIL
NTS

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MOSSWOOD COMMUNITY CENTER - PHASE 1
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BUILDING AUTOMATION SYMBOLS & LEGEND

CONTROL VALVES & ACTUATORS

- 2-WAY CONTROL VALVE, 2-POS
- 2-WAY CONTROL VALVE, MODULATING
- SOLENOID VALVE
- 3-WAY CONTROL VALVE, 2-POS
- 3-WAY CONTROL VALVE, MODULATING
- ELECTRONIC EXPANSION VALVE
- MOTORIZED ACTUATOR, 2 POSITION
- MOTORIZED ACTUATOR, MODULATING
- THERMOSTATIC ACTUATOR

BAS POINTS

- AI POINT NAME 1 — ANALOG INPUT (TO THE BAS)
- AO POINT NAME 2 — ANALOG OUTPUT (FROM THE BAS)
- BI POINT NAME 3 — BINARY INPUT (TO THE BAS)
- BO POINT NAME 4 — BINARY OUTPUT (FROM THE BAS)

SENSORS

- TEMPERATURE SENSOR
- TEMPERATURE SENSOR WITH THERMOWELL
- AVG — TEMPERATURE SENSOR AVERAGING
- BTU METER — BTU METER
- FS — FLOW SWITCH
- HYDRONIC FLOW METER
- HYDRONIC LEVEL SENSOR
- DPT — PRESSURE TRANSDUCER
- DPS — DIFFERENTIAL PRESSURE SENSOR
- AFMS — AIR FLOW MEASUREMENT STATION
- ZONE SENSOR
- DEWpt — DEW POINT DETECTOR
- FLOW CROSS
- RAIN — RAIN DETECTOR
- COND — CONDENSATION DETECTOR
- RH — RELATIVE HUMIDITY DETECTOR
- LEAK — WATER LEAK DETECTOR

ELECTRICAL OR NETWORK EQUIPMENT (DIAGRAMS)

- BACNET — THE NETWORK
- VFD — VARIABLE FREQUENCY DRIVE
- ECM CTRL — ELECTRONICALLY COMMUTATED MOTOR
- ZONE WALL TIMER
- THERMOSTAT
- T — TEMPERATURE SENSOR
- CO2 — CO2 SENSOR
- CO2 — CO2 SENSOR ZigBee
- Tsp — TOUCH SCREEN
- Master Controller — PANEL MOUNTED TOUCH SCREEN MASTER CONTROLLER
- ZONE OCCUPANCY SENSOR + ZigBee
- ZONE OCCUPANCY SENSOR
- ZONE WALL SWITCH
- WINDOW SWITCH
- WINDOW SWITCH + ZigBee
- WIFI
- WINDOW CONTACT
- WINDOW CONTACT + ZigBee
- R G Y W Aux — 3RD PARTY TSTAT AUX INPUT

BA GENERAL NOTES

1. PROVIDE ALL CONTROL WIRING (LOW VOLTAGE) AND CONDUIT.
2. ALL WIRING AND CONDUIT SHALL BE FURNISHED IN STRICT ACCORDANCE WITH DIVISION 26.
3. DUCT MOUNTED SMOKE DETECTORS SHALL BE PROVIDED AND WIRED TO FIRE ALARM SYSTEM UNDER DIVISION 28 AND INSTALLED/WIRED TO CONTROLS SYSTEM UNDER DIVISION 23.
4. ALL CONTROL WIRING SHALL BE RUN IN EMT CONDUIT.
5. ALL POWER WIRING FOR CONTROL SYSTEMS WILL BE RUN IN EMT CONDUIT.
6. LOCATIONS OF DDC PANELS TO BE FIELD LOCATED BY CONTRACTOR.
7. NETWORK CABLE TO BE BUS TOPOLOGY. NO TEE AND STUB OR FREE TOPOLOGY ALLOWED. ALL NETWORK CABLES TO BE PROPERLY TERMINATED.
8. DDC PANELS SHALL CONTAIN ALL CONTROL DEVICES, RELAYS, SWITCHES AND CONTROLLERS THAT ARE PART OF THE CONTROL SYSTEM.
9. A SINGLE CONTROLLER SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT OR AS INDICATED ON THE CONTROLS DRAWINGS. IF MULTIPLE CONTROLLERS ARE PROPOSED, CONTRACTOR TO SUBMIT TO ENGINEER OF RECORD FOR REVIEW.
10. OUTSIDE AIR TEMPERATURE, CO_2 LEVEL AND HUMIDITY SHALL BE PROVIDED BY THE BMS TO EACH DDC PANEL. PROVIDE ONE OSA TEMPERATURE SENSOR, CO_2 SENSOR AND HUMIDITY SENSOR FOR EACH BUILDING (TO BE LOCATED ON NORTH SIDE OF BUILDING).
11. REFER TO DRAWINGS FOR POINTS LIST.
12. REFER TO SPECIFICATION 25 09 00 FOR SEQUENCE OF OPERATIONS.
13. HARD-WIRE FIRE ALARM SYSTEM INTO HVAC CONTROL SYSTEM. IF SMOKE IS DETECTED, THE APPROPRIATE UNIT IS TO BE SHUTDOWN.
14. COORDINATE WITH OWNER ON LOCATION OF CONTROL WORKSTATION.
15. ALL CONTROL COMPONENTS TO COMPLY WITH ASHRAE 135 BACENET PROTOCOL (LATEST EDITION).
16. THE DDC PANEL MAY CONSIST OF MULTIPLE CONTROL MODULES PROVIDED THE LARGEST AVAILABLE PANEL IS ALREADY BEING USED. OTHERWISE, MOUNT ALL MODULES ON A COMMON BACKER BOARD IN ONE LOCATION.
17. ALL LOW VOLTAGES LINES AND ELECTRICAL POWER WIRING SHALL TERMINATE AT ONE POINT FOR EACH PANEL OR GROUP OF PANELS.
18. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL 120 VOLT POWER WIRING TO DDC CONTROLLERS AND DEVICES.
19. JUNCTION BOXES SHALL BE FURNISHED IN THE CEILING LEVEL OF EACH FLOOR . EACH JUNCTION BOX OR GROUP OF JUNCTION BOXES SHALL BE WIRED TO A DEDICATED 20 AMP CIRCUIT. THE CONTRACTOR SHALL FURNISH ALL WIRING AND CONDUIT FROM THE JUNCTION BOX AND MAKE FINAL TERMINATION TO ALL CONTROLLERS AND DEVICES PART OF THE CONTROL SYSTEM IN THAT AREA.
20. HVAC SYSTEM SERVING SMOKE DAMPERS AND/OR COMBINATION SMOKE-FIRE DAMPERS SHALL SHUTDOWN WHEN AUTOMATIC ACTIVATION OF DAMPER OCCURS.

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BUILDING AUTOMATION LEGEND, ABBREV. & GENERAL NOTES

P1

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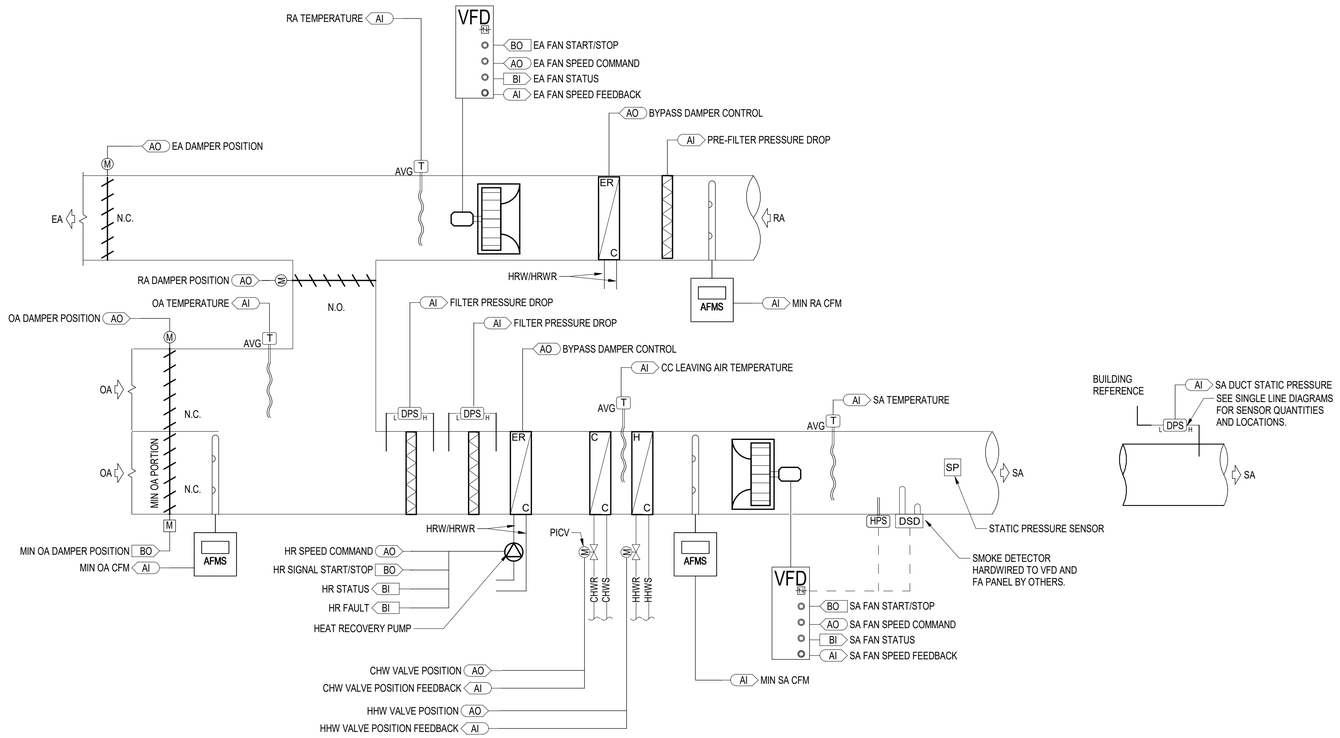
POINTS TABLE AHU HC CC CONTROL - AHU 2

POINT DESCRIPTION		POINT TYPE	HARDWIRED (H) OR NETWORKED (N)?	EXPECTED RANGE
BYPASS	DAMPER CONTROL	AO	N	0-100%
BYPASS	DAMPER CONTROL	AO	N	0-100%
CC	LEAVING AIR TEMPERATURE	AI	H	50-90°F
CHW VALVE	POSITION	AO	N	0-100%
CHW VALVE	POSITION FEEDBACK	AI	N	0-100%
EA DAMPER	POSITION	AO	N	0-100%
EA FAN	START/STOP	BO	N	-
EA FAN	SPEED COMMAND	AO	N	0-100%
EA FAN	SPEED FEEDBACK	AI	N	0-100%
FILTER	PRESSURE DROP	AI	H	0-1 IN. W.C.
FILTER	PRESSURE DROP	AI	H	0-1 IN. W.C.
HHW VALVE	POSITION	AO	N	0-100%
HHW VALVE	POSITION FEEDBACK	AI	N	0-100%
HR	SPEED COMMAND	AO	N	0-100%
HR	STATUS	BI	N	0-100%
HR	FAULT	BI	N	0-100%
HR SIGNAL	START/STOP	BO	N	0-100%
MIN OA	CFM	AI	H	50-90°F
MIN OA DAMPER	POSITION	BO	N	0-100%
MIN RA	CFM	AI	H	50-90°F
MIN SA	CFM	AI	H	50-90°F
OA	DAMPER POSITION	AO	N	0-100%
OA	TEMPERATURE	AI	H	30-110°F
PRE-FILTER	PRESSURE DROP	AI	H	0-1 IN. W.C.
RA	TEMPERATURE	AI	H	50-90°F
RA DAMPER	POSITION	AO	N	0-100%
SA	TEMPERATURE	AI	H	50-90°F
SA DUCT	STATIC PRESSURE	AI	H	0-2 IN. W.C.
SA FAN	START/STOP	BO	N	-
SA FAN	SPEED COMMAND	AO	N	0-100%
SA FAN	STATUS	BI	N	0-100%
SA FAN	SPEED FEEDBACK	AI	N	0-100%

P1



2 AHU 2 CONTROL
12" = 1'-0"

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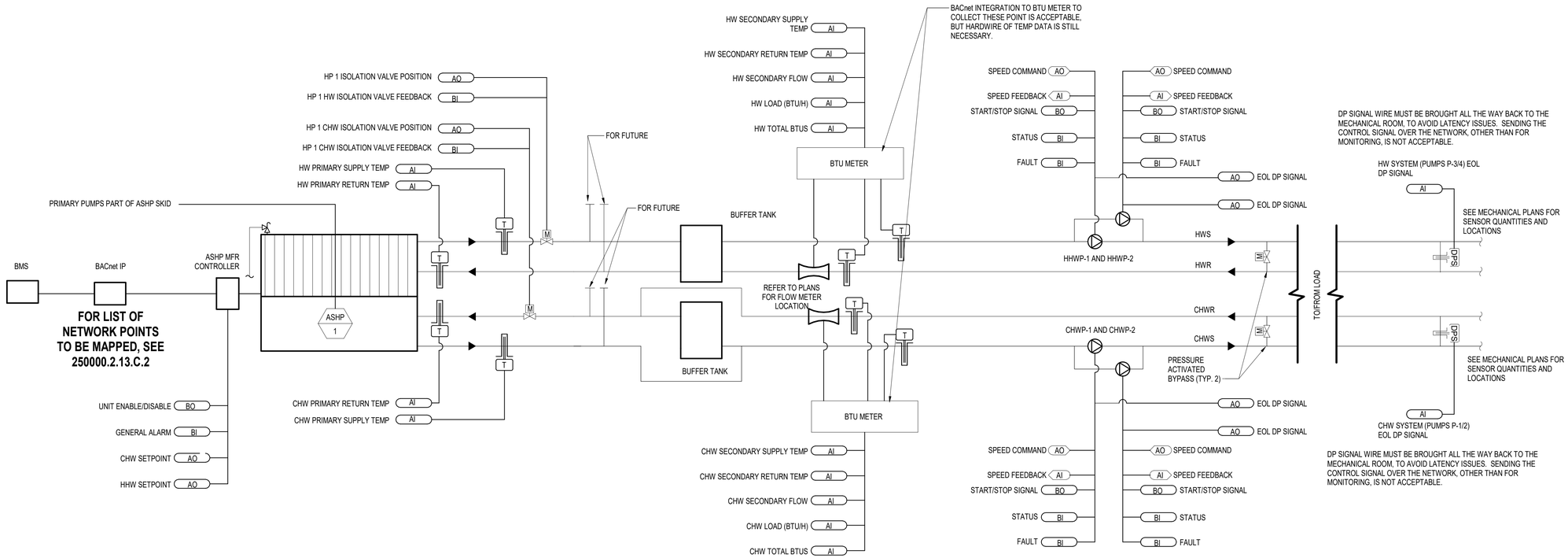

AIR-TO-WATER FOUR PIPE HEAT PUMP PLANT CONTROL POINTS

POINT DESCRIPTION	UNIT ENABLE	HW TANK TEMP, 1/3	HW TANK TEMP, 2/3	HW SECONDARY SUPPLY TEMP	HW SECONDARY RETURN TEMP	HW SECONDARY FLOW	HW LOAD (BTU/H)	HW TOTAL BTUS	P-3 START /STOP	P-3 STATUS	P-3 FAULT	P-3 DP	P-4 START /STOP	P-4 STATUS	P-4 FAULT	P-4 DP	HW SYSTEM DP
POINT TYPE	BO	AI	AI	AI	AI	AI	AI	AI	BO	BI	BI	AO	BO	BI	BI	AO	AI
TRENDED POINT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TREND INTERVAL (PER 250000.2.13.C)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TREND STORAGE POINT (1 YEAR)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HARDWIRED(H) / CALCULATED(C) / NETWORKED(N)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
EXPECTED RANGE																	

AIR-TO-WATER FOUR PIPE HEAT PUMP PLANT CONTROL POINTS (CONTINUED)

POINT DESCRIPTION	GENERAL ALARM	CHW TANK TEMP, 1/3	CHW TANK TEMP, 2/3	CHW SECONDARY SUPPLY TEMP	CHW SECONDARY RETURN TEMP	CHW SECONDARY FLOW	CHW LOAD (BTU/H)	CHW TOTAL BTUS	P-1 START /STOP	P-1 STATUS	P-1 FAULT	P-1 DP	P-2 START /STOP	P-2 STATUS	P-2 FAULT	P-2 DP	CHW SYSTEM DP
POINT TYPE	BO	AI	AI	AI	AI	AI	AI	AI	BO	BI	BI	AO	BO	BI	BI	AO	AI
TRENDED POINT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TREND INTERVAL (PER 250000.2.13.C)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TREND STORAGE POINT (1 YEAR)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HARDWIRED(H) / CALCULATED(C) / NETWORKED(N)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
EXPECTED RANGE																	

NOTE: FOR SEQUENCES OF OPERATION, SEE 250000.3.14

1 AIR-TO-WATER HEAT PUMP PLANT DIAGRAM, FOUR PIPE, ASHP-1
N.T.S.

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Drawn by: KS
Designed by: Designer
Checked by: Checker

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

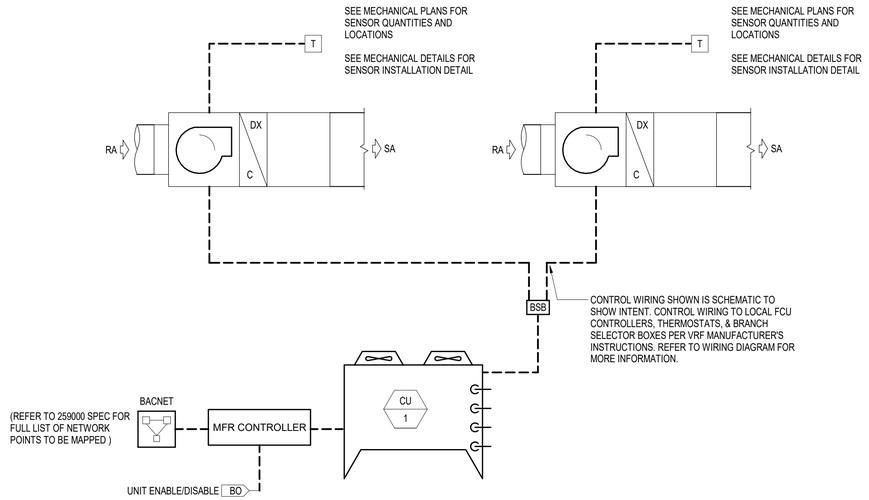
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
MECHANICAL CONTROLS

Drawing No.
M7.2

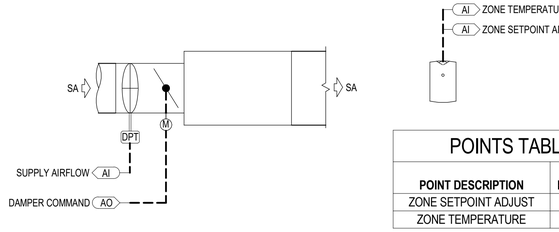
Sheet No.

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:47:28 PM



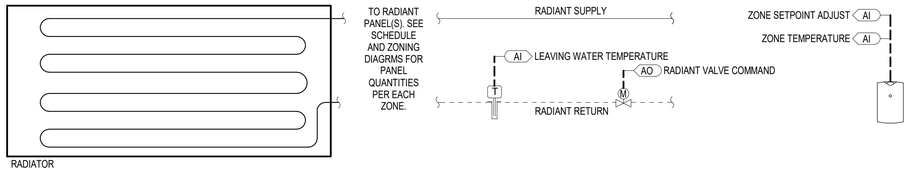
POINTS TABLE VRF (MULTIPLE FCU)			
POINT DESCRIPTION	**POINT TYPE**	**HARDWIRED (H) OR NETWORKED (N)?**	**EXPECTED RANGE**
UNIT ENABLE/DISABLE	BO	H	-

5 VRF CONTROL (MULTIPLE FCU)
12" = 1'-0"



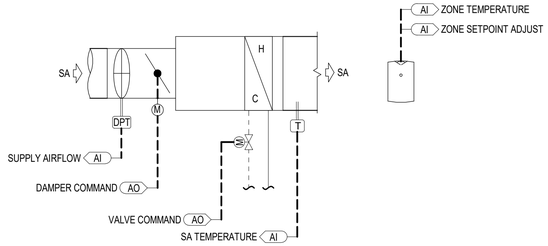
POINTS TABLE VAV SUPPLY, COOLING ONLY			
POINT DESCRIPTION	**POINT TYPE**	**HARDWIRED (H) OR NETWORKED (N)?**	**EXPECTED RANGE**
ZONE SETPOINT ADJUST	AI	H	68-75°F
ZONE TEMPERATURE	AI	H	68-75°F

3 SUPPLY VAV BOX W/ DCV CONTROL
12" = 1'-0"



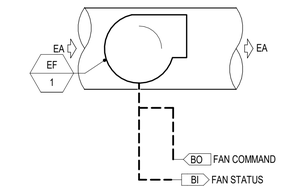
POINTS TABLE RADIANT PANEL 2-PIPE			
POINT DESCRIPTION	**POINT TYPE**	**HARDWIRED (H) OR NETWORKED (N)?**	**EXPECTED RANGE**
LEAVING WATER TEMPERATURE	AI	H	95-110°F
RADIANT VALVE COMMAND	AO	H	-
ZONE SETPOINT ADJUST	AI	H	65-80°F
ZONE TEMPERATURE	AI	H	65-80°F

2 RADIATOR CONTROL
N.T.S.



POINTS TABLE VAV SUPPLY, REHEAT			
POINT DESCRIPTION	**POINT TYPE**	**HARDWIRED (H) OR NETWORKED (N)?**	**EXPECTED RANGE**
VALVE COMMAND	AO		
SA TEMPERATURE	AI		60-80°F
SUPPLY AIRFLOW	AI		
DAMPER COMMAND	AO	H	0-100
ZONE SETPOINT ADJUST	AI	H	68-75°F
ZONE TEMPERATURE	AI	H	68-75°F
VALVE COMMAND	AO 2		1-100%
SA TEMPERATURE	AI 2		
SUPPLY AIRFLOW	AI 2		
DAMPER COMMAND	AO 2	H	
ZONE OCCUPANCY SENSOR	BI 2	H	
ZONE CO2 LEVEL	AI 2	H	0-1500 PPM
ZONE SETPOINT ADJUST	AI 2	H	
ZONE OCCUPANCY OVERRIDE	BI 2	H	
ZONE TEMPERATURE	AI 2	H	60-85 (°F)
ZONE DOOR STATUS	BI 2	H	

4 SUPPLY VAV BOX W/ DCV CONTROL
12" = 1'-0"



POINTS TABLE EXHAUST FAN SCHEDULE CONTROLLED			
POINT DESCRIPTION	**POINT TYPE**	**HARDWIRED (H) OR NETWORKED (N)?**	**EXPECTED RANGE**
SPEED COMMAND	BO	N	0-100%
STATUS	BI	N	0-100%

P1

1 BUILDING GENERAL EXHAUST FAN
N.T.S.

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Project Information
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1003625

Drawing Title
MECHANICAL CONTROLS

Drawing No.
M7.3

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:47:40 PM

PLUMBING LEGEND

PIPE & ACCESSORIES (PLANS)

- POINT OF CONNECTION
- POINT OF DISCONNECTION
- DEMOLITION OF PIPING, DEVICES, ETC.
- END OF DEMOLITION WORK
- FLOOR DRAIN
- FLOOR SINK
- COMBINATION ROOF / OVERFLOW DRAIN
- ROOF DRAIN / AREA DRAIN
- ROOF RECEPTOR
- FLOOR CLEANOUT
- WALL CLEANOUT
- HOSE BIBB
- LINE BREAK
- PIPE CAP
- END OF PIPE
- TEMPERATURE SENSOR
- FLEX CONNECTION
- UNION
- FLANGE
- FLOW DIRECTION
- DWV FITTING, 45° ELBOW
- DWV FITTING, 90° ELBOW
- DWV FITTING, 45° TEE
- DWV FITTING, 90° TEE
- PIPE DROP
- PIPE BRANCH, TEE UP
- PIPE BRANCH, TEE DOWN
- REVISION CLOUD AND DELTA
- EQUIPMENT TYPE
- NUMBER TYPE
- DETAIL DESIGNATION
- SHEET NUMBER

VALVES & ACCESSORIES (DIAGRAMS)

- PRESSURE REDUCING VALVE
- PRESSURE REDUCING VALVE GAS
- PRESSURE REDUCING VALVE - LINE FEED
- 2-WAY CONTROL VALVE, 2-POS
- 3-WAY CONTROL VALVE, 2-POS
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- CIRCUIT SETTER
- FLOAT VALVE
- T&P RELIEF VALVE
- THERMOSTATIC MIXING VALVE
- VALVE
- GLOBE VALVE
- WYE STRAINER
- WAY STRAINER WITH BLOW OFF
- GATE VALVE
- MANUAL AIR VALVE
- PLUG VALVE
- SOLENOID VALVE
- TEMP GUAGE
- PRESSURE GUAGE
- LIQUID FILLED THERMOMETER
- VACUUM BREAKER
- VFD
- REDUCER
- CEILING ACCESS PANEL (AP)
- WALL MOUNTED ACCESS PANEL (AP)
- EXPANSION TANK
- HEAT EXCHANGER
- PUMP

PIPE LINE DESIGNATIONS

- CW — DOMESTIC COLD WATER
- HW — DOMESTIC HOT WATER SUPPLY
- HWR — DOMESTIC HOT WATER RETURN
- SAN — SANITARY SEWER
- SAN — SANITARY SEWER (UNDERFLOOR)
- V — SANITARY VENT
- G — NATURAL GAS (LOW PRESSURE)
- MG — NATURAL GAS (MEDIUM PRESSURE)
- TP — TRAP PRIMER WATER
- CD — CONDENSATE DRAIN
- FW — FIRE PROTECTION WATER
- RW — RECLAIMED WATER
- SD — STORM DRAIN
- OD — OVERFLOW DRAIN
- GW — GREASE WASTE
- GW — GREASE WASTE (UNDERFLOOR)

PLUMBING ABBREVIATIONS

AC	ALTERNATING CURRENT
ACU	AIR-CONDITIONING UNIT(S)
AD	ACCESS DOOR
ADA	AMERICAN WITH DISABILITY ACT
ADAAG	ADA AMERICANS ACCESSIBILITY GUIDELINES
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR-HANDLING UNIT
AIR COND	AIR CONDITION(-ING, -ED)
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWG	AMERICAN WIRE GAUGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
B&S	BELL AND SPIGOT
BEL	BELOW
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOM	BILL OF MATERIAL
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BUTTERFLY VALVE
C	DEGREES CELSIUS
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CISP	CAST IRON SOIL/SEWER PIPE
CISPI	CAST IRON SOIL PIPE INSTITUTE
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CNTR	CENTER
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
COND	CONDENS(-ER, -ING, -ATION)
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CP	CIRCULATING PUMP
CTR	CENTER
CU	COPPER (CHEMICAL ABBREVIATION)
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CHECK VALVE
CW	COLD WATER
DBL	DOUBLE
DC	DIRECT CURRENT
DCV	DETECTOR CHECK VALVE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DP	DEPTH OR DEEP
DS	DOWNSPOUT
DWG	DRAWING
DWV	DRAIN, WASTE AND VENT
E	EXISTING
EA	EACH
EFF	EFFICIENCY
ELEC	ELECTRICAL
ENG	ENGINEER
ENT	ENTRANCE
EQ	EQUAL
ESS	EMERGENCY SAFETY SHOWER
EEW	EMERGENCY EYEWASH
ESEW	EMERGENCY SHOWER / EYEWASH
EST	ESTIMATE
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISH GRADE
FHY	FIRE HYDRANT
FIXT	FIXTURE
FLR	FLOOR
FND	FOUNDATION
FP	FIRE PROTECTION MAIN
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FIRE RISER
FS	FLOOR SINK
FT	FEET
FU	FIXTURE UNIT
FW	FIRE WATER
G	NATURAL GAS
GA	GAGE OR GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GI	GREASE INTERCEPTOR
GND	GROUND
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
GW	GREASE WASTE
H	HIGH
HB	HOSE BIB /HYDRANT
HD	HUB DRAIN
HDR	HEADER
HOR	HORIZONTAL
HP	HORSE POWER
HR/HRS	HOUR(S)
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ (CYCLES PER SECOND)
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INC	INCREASER, INCREASING
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
IW	INDIRECT WASTE
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
JC	JANITOR'S CLOSET
KF	KITCHEN FIXTURE
KW	KILOWATT
KWH	KILOWATT HOUR
KVA	KILOVOLT-AMPERE
KW	KILOWATT
L	LENGTH
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FEET
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MOP SINK
MWP	MAXIMUM WORKING PRESSURE
NC	NORMALLY CLOSED
N/A	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIS	NOT IN SCOPE
NO, #	NUMBER
NPS	NOMINAL PIPE SIZE (ALSO CALLED IPS)
NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OS&Y	OUTSIDE SCREW & YOKE (VALVE)
P	PITCH
PB	LEAD (CHEMICAL ABBREVIATION)
PD	PLAZA DRAIN, PRESSURE DROP, OR PRESSURE DIFFERENCIAL
PDI	PLUMBING DRAINAGE INSTITUTE
PE	PROFESSIONAL ENGINEER
PG	PRESSURE GAUGE
PH	PHASE (ELECTRICAL)
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PWS	PURE WATER SUPPLY
PWR	PURE WATER RETURN
PWR	POWER
QT	QUART
QTY	QUANTITY
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECIRC	RECIRCULATE
REF	REFERENCE
REQD	REQUIRED
REV	REVISION
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RW	RAW WATER /RECLAIMED WATER /RECYCLED WATER
RWC	RAIN WATER CONDUCTOR
RWL	RAIN WATER LEADER
SAD	SEE ARCHITECTURAL DRAWING(S)
SAN	SANITARY
SB	SPLASH BLOCK
SCD	SEE CIVIL DRAWING(S)
SCFM	CUBIC FT PER MINUTE, STANDARD CONDITIONS
SCFS	CUBIC FT PER SEC, STANDARD CONDITIONS
SCH	SCHEDULE
SCUP	SCUPPER
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECOND
SECT	SECTION
SERV	SERVICE
SEV	SEWAGE EJECTOR VENT
SF	SQUARE FOOT
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SLV	SLEEVE
SLD	SEE LANDSCAPE ARCHITECT DRAWING(S)
SMD	SEE MECHANICAL DRAWING(S)
SSD	SEE STRUCTURAL DRAWING(S)
SOV	SHUTOFF VALVE
STP	STANDPIPE
SP	STATIC PRESSURE /SPRINKLER /SUMP PUMP
SPEC	SPECIFICATION
SPD	SUMP PUMP DISCHARGE
SPM	SPRINKLER MAIN
SS	SERVICE SINK
STD	STANDARD
STL	STEEL
SUCT	SUCTION
SRV	SAFETY RELIEF VALVE
SQ	SQUARE
SQ FT	SQUARE FEET
S&W	SOIL & WASTE
T	TEE
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TLT	TOILET
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
TYP	TYPICAL
TAP	TAP, TAPPED
TOT	TAP ON TOP
TP	TRAP SEAL PRIMER
TY	TEE WYE, (SAN TEE)
TYP	TYPICAL
UP	PIPE UP THRU FLOOR SLAB
UR	URINAL
UON	UNLESS OTHERWISE NOTED
V	VENT
VAP	VACUUM PUMP
VT	VOLT
VOL	VOLUME
VAC	VACUUM
VAR	VARIABLE
VB	VALVE BOX
VEL	VELOCITY
VERT	VERTICAL
VLV	VALVE
VOL	VOLUME
VP	VENT PIPE
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	WASTE /WATT
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WFS	WATER FLOW SWITCH
WH	WATER HEATER /WALL HYDRANT
WM	WATER METER
WS	WATER STOP
WHA	WATER HAMMER ARRESTOR
WL	WATER LEVEL
WP	WEATHERPROOF
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WEIGHT
%	PERCENT
(E)	EXISTING
(N)	NEW
@	AT (THE RATE OF)
&	AND
#	NUMBER

CALIFORNIA CODES AND STANDARDS

1. 2019 CALIFORNIA BUILDING CODE (CBC)
2. 2019 CALIFORNIA PLUMBING CODE (CPC)
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC)
4. 2019 CALIFORNIA MECHANICAL CODE (CMC)
5. 2019 CALIFORNIA ENERGY CODE
6. 2019 CALIFORNIA FIRE CODE (CFC)
7. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), LATEST ADOPTED EDITION OF APPLICABLE STANDARDS

PLUMBING GENERAL NOTES

1. PROVIDE COMPLETE AND FULLY FUNCTIONAL PLUMBING SYSTEMS AS INDICATED IN THE CONTRACT DOCUMENTS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA BUILDING CODE AND LOCAL RULES AND REGULATIONS, STATE AND LOCAL FIRE MARSHAL REGULATIONS, THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, AMERICAN GAS ASSOCIATION, OCCUPATION AND SAFETY ACT, AMERICAN NATIONAL STANDARDS INSTITUTE, AMERICAN SOCIETY OF MECHANICAL ENGINEERS, AMERICAN SOCIETY FOR TESTING AND MATERIALS. INSTALLATION STANDARDS PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO) AND OTHER APPLICABLE LAWS, CODES, OR REGULATIONS. NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
2. VERIFY LOCATION OF UTILITIES PRIOR TO PERFORMING WORK. COORDINATE ALL WORK WITH OTHER TRADES.
3. PLUMBING FIXTURES SHALL HAVE MAXIMUM FLOW RATES AS INDICATED ON SCHEDULES.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND COLOR OF PLUMBING FIXTURES.
5. COORDINATE ALL CORING OF FLOORS AND WALLS WITH ARCHITECT PRIOR TO START OF WORK.
6. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
7. PIPING SHALL HAVE SUFFICIENT CLEARANCE FROM STRUCTURE TO ALLOW FOR EXPANSION AND CONTRACTION OF THE PIPING. NO PIPING SHALL TOUCH WOOD, CONCRETE, OTHER PIPING, ETC.
8. ALL EQUIPMENT, FIXTURES, ETC. SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
9. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY AND PERFORM ALL REQUIRED TESTING OF ALL PIPING AND ACCESSORIES INSTALLED. ALL SUCH PLUMBING INSTALLATIONS SHALL BE TESTED, REPAIRED, AND ADJUSTED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND ALL GOVERNING AUTHORITIES.
10. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.
11. PROVIDE UNIONS AFTER EACH THREADED VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
12. FOLLOW THE GENERAL ARRANGEMENT INDICATED ON THE DRAWINGS AS CLOSELY AS POSSIBLE. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND ALL OTHER TRADES PRIOR TO INSTALLATION OF THE MATERIALS AND EQUIPMENT TO VERIFY ADEQUATE SPACE AVAILABLE FOR INSTALLATION OF THE WORK SHOWN. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED IF AN AREA OF CONFLICT OCCURS BETWEEN TRADES.
13. SPECIFICATIONS ARE AN INTEGRAL PART OF THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH SPECIFICATION REQUIREMENTS.
14. ALL FIXTURES, FLOOR DRAINS, FLOOR SINKS, ETC. SHALL BE TRAPPED AND VENTED. PROVIDE TRAP PRIMER TO ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS AND AS INDICATED ON THE DRAWINGS. ALL TRAP PRIMERS SHALL BE ACCESSIBLE AND PROVIDED WITH A 12"X12" ACCESS PANEL (MINIMUM).
15. PRIMARY AND SECONDARY STORM DRAINAGE PIPING SHALL BE INSULATED. INSULATE DRAIN BODY AND HORIZONTAL UP TO 10 FEET OF VERTICAL FROM THE HORIZONTAL.
16. PROVIDE ALL PIPING, VALVES, FITTINGS AND OTHER APPURTENANCES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
17. PIPING TO BE SLOPED AS FOLLOWS UNLESS OTHERWISE NOTED:
    - A. SANITARY SEWER = 2%
    - B. SANITARY VENT (BELOW FLOOD RIM) = 2%
    - C. SANITARY VENT (ABOVE FLOOD RIM) = 0.25%
    - D. TRAP PRIMER = 1%
    - E. CONDENSATE = 1%
    - F. STORM DRAIN = 1%
18. VERIFY IN FIELD EXISTING CONDITIONS, SIZE AND EXACT LOCATION OF SERVICES PRIOR TO START OF WORK
19. ALL WASTE, SUPPLY, AND VENT PIPING SHOULD BE CONCEALED FROM VIEW IN PUBLIC AREAS UNLESS EXPLICITYLY SHOWN ON ARCH DRAWINGS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BEAM PENETRATIONS.
20. THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT WERE PREPARED BY THE DESIGN TEAM USING 3-D MODELING SOFTWARE. USING THIS SOFTWARE BY THE DESIGN TEAM DOES NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE NECESSARY COORDINATION TO PROVIDE COMPLETE, CODE COMPLIANT AND OPERATIONAL BUILDING SYSTEMS. THE PLANS AND SECTIONS PROVIDED ARE NOT COMPLETE AND ARE TO BE CONSIDERED DIAGRAMMATIC ONLY. THE EXACT LOCATION OF THE PIPING, DUCTWORK, ELECTRICAL AND SUPPORT COMPONENTS ARE TO BE DETERMINED IN THE FIELD. ALL BUILDING SECTIONS AND DETAILS PROVIDED ARE FOR INFORMATION ONLY AND DO NOT RELIEVE THE CONTRACTOR FROM PERFORMING FINAL COORDINATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES.
21. SUBMIT FOR APPROVAL MANUFACTURER'S SUBMITTAL DATA ON ALL MATERIALS, EQUIPMENT, AND DEVICES PER SPECIFICATIONS
22. PAINT ALL EXPOSED DUCTWORK, PIPING, FIXTURES, EQUIPMENT, AND FITTINGS UNLESS OTHERWISE NOTED.

SHEET LIST - PLUMBING

NUMBER	NAME
P0.1	PLUMBING LEGEND, ABBREVIATIONS, AND GENERAL NOTES
P0.2	PLUMBING SCHEDULES
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P1.1	PLUMBING SITE PLAN PROPOSED
P2.0	PLUMBING FIRST FLOOR UNDERGROUND PLAN - PHASE 1
P2.1	PLUMBING FIRST FLOOR PLAN - PHASE 1
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P4.0	PLUMBING ENLARGED PLANS
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P5.1	PLUMBING RISER DIAGRAMS
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P6.1	PLUMBING DETAILS
P6.2	PLUMBING DETAILS
P6.3	PLUMBING DETAILS

P1

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Project Information
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Drawing Title
PLUMBING LEGEND, ABBREVIATIONS, AND GENERAL NOTES

Drawing No.
P0.1

Sheet No.

MOSSWOOD COMMUNITY CENTER - PHASE 1
LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:39:43 PM

DRAIN, CLEANOUT, AND PLUMBING SPECIALTY

TYPE	DESCRIPTION	MANUFACTURER	MODEL	COVER/STRAINER STYLE	REMARKS
FD-1	FLOOR DRAIN	ZURN	Z145B-CP	6" DIA	DURA-COATED CHROME-PLATED HEEL-PROOF GRATE, SEEPAGE FLANGE AND CLAMPING COLLAR, PROVIDE TRAP PRIMER.
FD-2	FLOOR DRAIN	ZURN	Z535	12"x12"	SQUARE TOP HEAVY DUTY, ALUMINUM BODY W/ BOTTOM OUTLET. SEDIMENT BUCKET ANDY HEAVY DUTY ANTI-TILT HINGE SLOTTED GRATE.
FS-1	FLOOR SINK	ZURN	Z1900	12"X12"	1/2 GRATE, 6"DEEP, ENAMEL COATED, CAST IRON DRAIN BODY WITH DOME STRAINER. PROVIDE 1" AIR GAP, PROVIDE TRAP PRIMER
RD/OD-1	ROOF/OVERFLOW DRAIN	ZURN	Z165	8-3/8" DIM TOP	COMBINED MAIN ROOF DRAIN AND OVERFLOW DRAIN, DURACOATED CAST IRON BODIES WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DOUBLE TOP-SET DECK PLATE, AND LOW SILHOUETTE CAST IRON DOME.
RR-1	ROOF RECEPTOR	ZURN	Z122	12"DIA	DURA-COATED CAST IRON BODY WITH DOME AND MEMBRANE CLAMP, 2-1/4" DAM. PROVIDE ADJUSTABLE EXTENSION ASSEMBLY AND SECONDARY CLAMPING COLLAR.
FCO	FLOOR CLEANOUT (SAN)	ZURN	Z1400	7-1/4" DIA	HEAVY DUTY NICKEL BRONZE TOP, CAST IRON BODY, ANCHOR FLANGE, BRONZE PLUG.
GCO	2-WAY GRADE CLEANOUT (SAN)	ZURN	Z1400	7-1/4" DIA	HEAVY DUTY NICKEL BRONZE TOP, CAST IRON BODY, BRONZE PLUG.
WCO	WALL CLEANOUT (SAN)	ZURN	Z1446	-	CAST IRON BODY CLEANOUT TEE. BRONZE PLUG, STAINLESS STEEL COVER. FOR SAINTARY SYSTEM
TP-1	TRAP SEAL PRIMER	MIFAB	MR-500-NPB	-	BRASS BODY WITH INTEGRAL VACUUM BREAKER, PROVIDE WITH TRAP PRIMER DISTRIBUTION VALVE IF NEEDED, ACTIVATION PRESSURE DROP OF 3-PSI. PROVIDE ACCESS PANEL
TP-2	TRAP SEAL PRIMER	PPP	MPB-500	-	ELECTRONIC TRAP PRIMER, PROVIDE WITH TRAP PRIMER DISTRIBUTION VALVE IF NEEDED ,120V, 60HZ
BFP-1	BACKFLOW PREVENTOR	ZURN	740	-	ASSE 1022 COMPLIANT BACKFLOW PREVENTOR, PIPE VENT TO NEARBY FLOOR SINK WITH MIN 1" AIR GAP.
BFP-2	BACKFLOW PREVENTOR (MECH MAKE-UP)	ZURN	375XL	-	3/4" SIZE. PIPE DISCHARGE TO NEARBY ROOF RECEPTOR WITH MIN 1" AIR GAP.
BV-1	BALANCING VALVE	THERMOMEGA	CIRCUIT SOLVER	-	SEE DWGS FOR SIZES AND SETTINGS, MATCH PIPE SIZE. INSTALL PER DETAIL 3/P6.1
HD-1	HUB DRAIN	-	-	-	SEE DETAIL 1/P6.1

NOTES:
1. PROVIDE TRAP PRIMER TO ALL FLOOR DRAIN AND FLOOR SINKS

KITCHEN EQUIPMENT CONNECTION SCHEDULE

ITEM NUMBER	DESCRIPTION	QTY	MINIMUM BRANCH CONNECTION					NOTES
			WASTE	VENT	GREASE WASTE	CW	HW	
K-2	ADA HAND SINK	1	2"	2"	NO	1/2"	1/2"	
K-8	POT SINK	1	2"	2"	YES	3/4"	3/4"	PROVIDE FLOOR DRAIN PROTECTION PER DETAIL X/P6.1
K-25	ICE MACHINE	1	IW	2"	NO	1/2"	-	PROVIDE STAINLESS STEEL BACKFLOW PREVENTOR. INDIRECTLY DISCHARGE IN NEARBY FLOOR SINK WITH 1" AIR GAP.
K-26	COFFEE BREWER	1	IW	-	-	1/2"	-	PROVIDE STAINLESS STEEL BACKFLOW PREVENTOR.
K-28	SERVING COUNTER W/ SINK	1	2"	2"	YES	1/2"	1/2"	INDIRECTLY DISCHARGE IN NEARBY FLOOR SINK WITH 1" AIR GAP.

NOTE: SEE KITCHEN SERVICE DRAWINGS FOR EXACT LOCATIONS, SPECIFICATIONS, AND DETAILS. INSTALL PER FOOD SERVICE DRAWINGS.

PLUMBING - WATER METER SCHEDULE

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	DESIGN LOAD DEMAND (GPM)	MAX CAPACITY (GPM)	NOTES
WM	1	ONICON	F-4600-020-000-19	SOCIAL HALL SUPPORT 117	DCW	50	150	1,2
WM	2	ONICON	F-4600-130-000-19	SOCIAL HALL SUPPORT 117	DHW	17	60	1,2
WM	3	ONICON	F-4600-010-000-19	SOCIAL HALL SUPPORT 117	MOSS HOUSE	10	25	1,2

NOTES:
1. LEAD FREE
2. CONNECT TO BMS VIA BACNET/IP.

PLUMBING PRV SCHEDULE

TYPE	NO.	MANUFACTURER	MODEL	SERVICE	DESCRIPTION	FLOW RATE (GPM)	INLET PRESSURE	OUTLET PRESSURE	LENGTH	WIDTH	HEIGHT
PRV	1	WATTS	LFU5B-Z3.	WATER MAIN	PRESSURE REDUCING VALVE	60	80.00 psi	71 psi	10' - 0 7/8"	6' - 0"	18' - 0 1/4"

FIXTURE SCHEDULE

TAG	FIXTURE	MINIMUM BRANCH CONNECTION					REMARKS
		SAN	TRAP	V	CW	HW	
WC-1	WATER CLOSET	4"	-	2"	1-1/2"	-	AMERICAN STANDARD AFWALL MODEL "2856.128", 1.28 GPF, ELONGATED, WALL MOUNT, MANUAL FLUSH VALVE, MAP SCORE OF 1000.
WC-2	WATER CLOSET (ADA)	4"	-	2"	1-1/2"	-	AMERICAN STANDARD AFWALL MODEL "2856.128", 1.28 GPF, ELONGATED, WALL MOUNT, MANUAL FLUSH VALVE, MAP SCORE OF 1000, MOUNT AT ADA HEIGHT
L-1	LAVATORY	2"	1-1/4"	2"	1/2"	1/2"	FAUCET: BRADLEY, CRESTT SERIES, HARDWIRED, 120V, INTEGRATED THERMOSTATIC MIXING VALVE, 0.35GPM; BASIN: BRADLEY LVAD2 VERGE WASH BASIN, DUAL STATION.
UR-1	URINAL	2"	-	2"	1"	-	AMERICAN STANDARD WASHBROOK MODEL "6590.503", 0.125 GPF, WALL MOUNT, MANUAL FLUSH VALVE
SK-1	CLASSROOM SINK	2"	2"	2"	1/2"	1/2"	FAUCET: CHICAGO FAUCETS MODEL "430-ABCP", MANUAL LEVER HANDLE, PROVIDE 1.0 GPM AERATOR; BASIN: JUST MFG MODEL "SL-ADA-2125-16-GR", 21"X25"X5-1/2" STAINLESS STEEL SINGLE BOWL
MS-1	MOP SINK	3"	3"	2"	3/4"	3/4"	FAUCET: CHICAGO FAUCETS MODEL "897-RCF", WALL MOUNT MANUAL WITH INTEGRAL VACUUM BREAKER; BASIN: FLORESTONE MODEL "MSR-2424"
HB-1	HOSE BIB	-	-	-	3/4"	-	ZURN MODEL "Z1350-VB", MILD CLIMATE NARROW WALL HYDRANT, LOCKABLE, VACUUM BREAKER.
HB-2	PEDESTAL MOUNTED HOT & COLD WATER MIXING STATION	-	-	-	1"	-	STRAHMAN M-750TG STAINLESS PEDESTAL MOUNTED HOT & COLD WATER MIXING STATION. PROVIDE WITH COMPATIBLE HOSE AND STRAHMAN M-70 LOW FLOW MODEL
DF-1	DRINKING FOUNTAIN	2"	1-1/2"	2"	1/2"	-	ELKAY MODEL LZWS-LRPBM28K, HIGH/LOW DRINKING FOUNTAIN, BOTTLE FILLING STATION, AND LOWER SKIRT, FILTERED, REFRIGERATED, ELEC: 120V, 60HZ

PLUMBING - THERMOSTATIC MIXING VALVE

* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	SERVICE	LOCATION	CAPACITY [GPM]			NOTES
						MINIMUM (GPM)	DESIGN (GPM)	MAXIMUM (GPM)	
TMV	1	ACORN	MV17-2	DHW	SOCIAL HALL SUPPORT 117	1.00	25.00	45.0	1,2,3
TMV	2	ACORN	ST70	DHW	LAVATORIES	0.25	0.70	4.5	1,3,4
TMV	2	ACORN	ST70	DHW	LAVATORIES	0.25	0.70	4.5	1,3,4

NOTES:
1. REFER TO DETAIL 6/P6.01
2. SET AT 120F
3. INSTALL PER MANUFACTURER RECOMMENDATIONS
4. SET AT 105F

PLUMBING - GREASE INTERCEPTOR SCHEDULE

* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	CAPACITY	INLET DIAMETER	COVER O.D.	DIMENSIONS		NOTES
						MAX LIQUID (GAL)			LENGTH	WIDTH	
GI	1	JENSEN PRECAST	JP750EPE-G	SITE	GREASE	750.0	4"	24"	51"	97"	1,2

NOTES:
1. PROVIDE EXTENSION RINGS TO MATCH GRADE.
2. INSTALL PER MANUFACTURER RECOMMENDATIONS

PLUMBING - SAND/OIL INTERCEPTOR SCHEDULE

* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	CAPACITY	INLET DIAMETER	COVER O.D.	DIMENSIONS		NOTES
						MAX LIQUID (GAL)			LENGTH	WIDTH	
SOI	1	JENSEN PRECAST	JP500EE-SO	SITE - TRASH ENCLOSURE	TRASH ENCLOSURE AREA	500.0	4"	4"	72"	48"	1,2,3

NOTES:
1. PROVIDE EXTENSION RINGS TO MATCH GRADE.
2. INSTALL PER MANUFACTURER RECOMMENDATIONS
3. PROVIDE JENSEN PRECAST MODEL 200 24" SAMPLE BOX

PLUMBING - CIRCULATION PUMP SCHEDULE

* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	DESIGN LOAD DEMAND (GPM)	TOTAL DISCH HEAD (ft)	ELECTRICAL			OPERATING WEIGHT (lb)	NOTES
								HP (W)	VOLT (V)	PHASE		
CP	1	BELL & GOSSETT	ECOCIRC XL 20-35	DHW	SOCIAL HALL SUPPORT 117	3	15.00	0.08	120	1	22.00 lb	1,2,3

NOTES:
1. REFER TO DETAIL 6/P6.01
2. PROVIDE AQUASTAT AND SET AT 115F, PROVIDE TIMER.
3. INSTALL PER MANUFACTURER RECOMMENDATIONS

PLUMBING - TANK SCHEDULE

* CELLS WITH SHADED BACKGROUNDS ARE UNASSIGNED OR UNDER REVIEW

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	SERVICE	CAPACITY (GAL)	DIMENSIONS		OPERATING WEIGHT (LB)	NOTES
								HEIGHT	DIAMETER		
ET	1	AMTROL	ST-12C	EXPANSION TANK	SOCIAL HALL SUPPORT 117	DHW	6.3	14"	12"	75.00	1,5
HWST	1	PVI	L-150A-TR	HOT WATER STORAGE TANK	SOCIAL HALL SUPPORT 117	DHW	150.0	65"	37"	2060.00	1,2,3,4,5

NOTES:
1. REFER TO DETAIL 6/P6.01
2. PROVIDE 4" CONCRETE HOUSEKEEPING PAD THAT EXTENDS 6" MIN BEYOND EQUIPMENT FOOTPRINT
3. PROVIDE SEISMIC STRAPS
4. PROVIDE PRESSURE AND TEMPERATURE RELIEF VALVE
5. INSTALL PER MANUFACTURER RECOMMENDATIONS

PLUMBING - WATER SOURCE HEAT PUMP WATER HEATER SCHEDULE

TYPE	EQUIPMENT NUMBER	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	LOCATION	HEATING					REFRIGERANT		ELECTRICAL					DIMENSIONS			OPERATING WEIGHT	NOTES
							DESIGN CAPACITY (BTU/HR)	SOURCE WATER TEMP	EWT	LWT	MIN COP	TYPE	CHARGE (LBS)	POWER	FLA	VOLT	PHASE	FREQUENCY	LENGTH	WIDTH	HEIGHT		
HPWH	1	HEAT PUMP WATER HEATER	COLMAC	HPW2	DHW	UPPER MECH ROOF	22,000	70 °F	55 °F	140 °F	2.5	R-134A	10.5	5.30 kW	7.2 A	460 V	1	60 Hz	34"	22"	25"	385 lb	1,2

NOTES:
1. LEAD FREE
2. CONNECT TO BMS VIA BACNET/IP.

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Drawing Title
PLUMBING SCHEDULES

Drawing No.
P0.2

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/19/2022 2:45:08 PM

PIPE SIZING SCHEDULE COLD WATER			
SIZE	GPM	FLUSH TANK	FLUSH VALVE
1/2"	2	1	-
3/4"	5	6	-
1"	10	15	-
1-1/4"	17	30	-
1-1/2"	27	56	14
2"	56	205	95
2-1/2"	86	455	329
3"	140	719	666
4"	217	1668	1668
MAX. DESIGN VELOCITY =			6 FPS
FRICTION LOSS PER 100 FT.			4 PSI

PIPE SIZING SCHEDULE HOT WATER			
SIZE	GPM	FLUSH TANK	FLUSH VALVE
1/2"	2	1	-
3/4"	4	6	-
1"	10	15	-
1-1/4"	17	28	-
1-1/2"	27	46	10
2"	48	119	44
2-1/2"	74	245	124
3"	106	406	276
4"	186	585	824
MAX. DESIGN VELOCITY =			5 FPS
FRICTION LOSS PER 100 FT.			4 PSI

DRAINAGE PIPE SIZING...

DRAINAGE PIPING	
PIPE SIZE (IN)	MAXIUMUM UNITS (DFU)
1-1/4"	1
1-1/2"	2
2"	16
3"	35
4"	216
6"	720
VENT PIPING	
PIPE SIZE (IN)	MAXIUMUM UNITS (DFU)
1-1/4"	1
1-1/2"	8
2"	24
3"	84
4"	256
6"	1380

REFERENCE: CPC 2019 SECTION 703.0
CPC 2019 SECTION 904.0
P1 CPC 2019 TABLE 702.1 AND 703.2

STORM PIPE SIZING TABLE

DESIGN RAINFALL RATE	1.5 IN/HR	
PIPE SIZE (IN)	MAX AREA BASED ON LOCAL RAINFALL RATE AT 1% SLOPE	
	VERTICAL	HORIZONTAL
2"	1920	-
3"	5867	2192
4"	12267	5013
6"	36000	14267
8"	77333	30667
10"	-	55200
15"	-	158667

REFERENCE: CPC 2019 TABLE 1103.2 P1

STORM PIPE SIZING TABLE

DESIGN RAINFALL RATE	3 IN/HR	
PIPE SIZE (IN)	MAX AREA BASED ON LOCAL RAINFALL RATE AT 1% SLOPE	
	VERTICAL	HORIZONTAL
2"	960	-
3"	2933	1096
4"	6133	2507
6"	18000	7133
8"	38667	15333
10"	-	27600
15"	-	79333

REFERENCE: CPC 2019 TABLE 1101.12.2.2.
DOUBLE RAINFALL FOR COMBINED PRIMARY AND OVERFLOW DRAIN

P1

GREASE INTERCEPTOR SIZING

FIXTURE ID	FIXTURE NAME	DFU	QUANTITY	TOTAL DFU
K-28	1-COMP SINK	3	1	3
K-26	COFFEE MACHINE	0.5	1	0.5
K-8	3-COMP SINK	4	1	4
FD-1	FLOOR DRAIN	2	2	4
TOTAL DFU				11.5
CAPACITY OF PROVIDED GRAVITY GI (750 GAL)				21

REFERENCE: CPC 2019 SECTION 703.0
CPC 2019 SECTION 1014.3.6

KITCHEN HOT WATER SIZING

FIXTURE ID	FIXTURE NAME	GPH	QUANTITY	TOTAL GPH
K-28	1-COMP SINK	10	1	10
K-2	HAND SINK	5	1	5
K-8	3-COMP SINK	45	1	45
TOTAL GPH				60
ASSUMED COLD TEMPERATURE (F)				55
PROVIDED HOT TEMPERATURE (F)				120
HEATING CAPACITY REQUIRED (MBH)				32.5
HEATING CAPACITY PROVIDED (MBH) AT 30F AMBIENT AIR				44

REFERENCE: SCC HEALTH DEPARTMENT GUIDELINES

PLUMBING - PIPE MATERIAL SCHEDULE

PLUMBING SERVICE	MATERIAL	COPPER TYPE 'L'	COPPER TYPE 'L', MEDICAL/OXYGEN GRADE	COPPER TYPE 'K'	COPPER TYPE DWV (SOLDERED)	HUBLESS, CAST IRON SOIL PIPE CISPI HEAVY DUTY HUBLESS COUPLINGS WITH NSF CERTIFICATION	REMARKS
SANITARY WASTE	ABOVE GRADE					✓	
	BELOW GRADE					✓	
SANITARY VENT	ABOVE GRADE					✓	
	BELOW GRADE					✓	
STORM DRAIN	ABOVE GRADE					✓	
	BELOW GRADE					✓	
DOMESTIC COLD & HOT WATER	ABOVE GRADE	✓					
	BELOW GRADE			✓			BRAZED
CONDENSATE	ABOVE GRADE				✓		

NOTES:
1. FOR ADDITIONAL INFORMATION ABOUT PIPE MATERIAL SEE SPECIFICATION SECTION PERTAINING TO THE SPECIFIC SYSTEMS

PROJECT NAME: MOSSWOOD				SHEET 1 OF 1			
SYSTEM: DOMESTIC WATER CALCULATION							
BY: Integral Group				DATE 3/10/2022			
A	WATER PRESSURE:	MAX: 104 PSI MIN: 104 PSI					
B	SYSTEM FU'S	TOTAL FU 76 FU FLUSH VALVE X		FLUSH TANK	=	60	GPM
C	CONT. FLOW GPM (HVAC)				=	0	GPM
D	TOTAL SYSTEM GPM				=	60	GPM
E	PRV (WATTS LFU5B)	SIZE: 2"	Inch set at 71 PSI				PSI
F	METER SIZE:	2"	LOSS AT PEAK FLOW		=	1.4	PSI
G	MINIMUM AVAILABLE SYSTEM PRESSURE (OR PRV SET PRESSURE)				=	102.6	PSI
H	RESIDUAL PRESSURE REQUIRED AT REMOTE OUTLET				=	30	PSI
I	ELEVATION LOSS =	40 FT. X		0.433	=	17.3	PSI
J	PRV LOSS (FALL OFF PRESSURE AT FULL FLOW)				=	9	PSI
K	ADDITIONAL BACKFLOW PREVENTER LOSS				=	12	PSI
L	MISCELLANEOUS PRESSURE LOSS (BUILDING SERVICE)				=	5	PSI
M	TOTAL SYSTEM LOSSES (H+I+J+K+L)				=	78.32	PSI
N	PRESSURE AVAILABLE FOR FRICTION LOSS (G-M)				=	24.3	PSI
O	DEVELOPED LENGTH:	300 FT. PLUS 10% FOR FITTINGS			=	330	PSI
P	MAX. FRICITION LOSS PER 100 FEET =	(N) 24.3 (O) 330		X 100	=	7.4	PSI

P1

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Drawing Title
PLUMBING CALCULATIONS

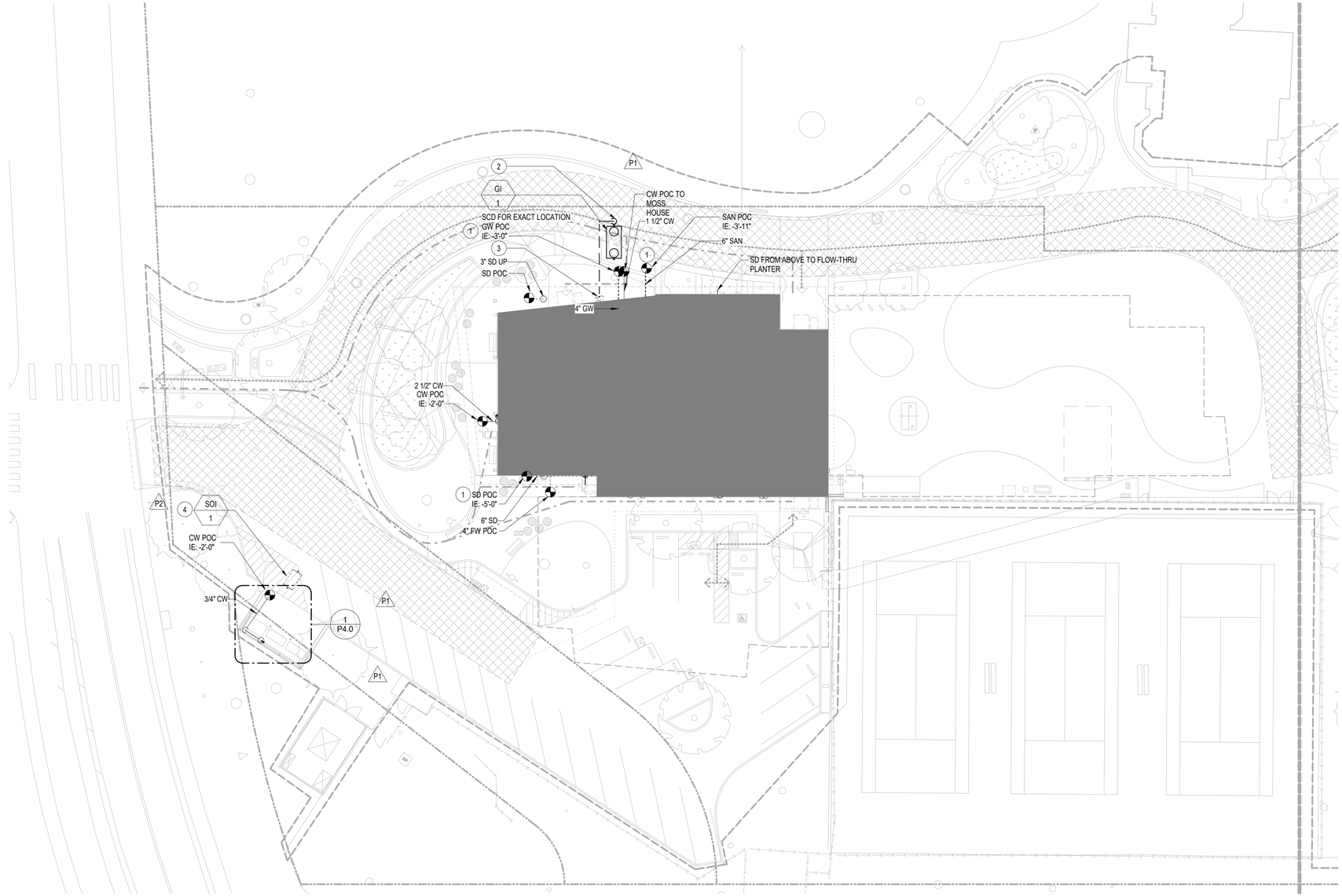
Drawing No.
P0.3

Sheet No.

PLOT DATE: 7/15/2022 4:40:17 PM
LMSa PROJECT NUMBER: 1902

PLUMBING SHEET NOTES:

1. PROVIDE 2-WAY GCO
2. 3" VENT LINE FROM GREASE INTERCEPTOR . ROUTE VENT U/G .
3. SEE P2.0 FOR CONTINUATION.
4. SEE CIVIL DRAWINGS FOR EXACT LOCATION. ROUTE 2" VENT TO WITHIN TRASH ENCLOSURE FENCING AND TERMINATE WITH GOOSENECK FITTING ABOVE GRADE.



1 / P1.1 P01_SITE
SCALE: 1" = 20'-0"

32 16 0 32

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Drawing Title
PLUMBING SITE PLAN PROPOSED

Drawing No.
P1.1
Sheet No.

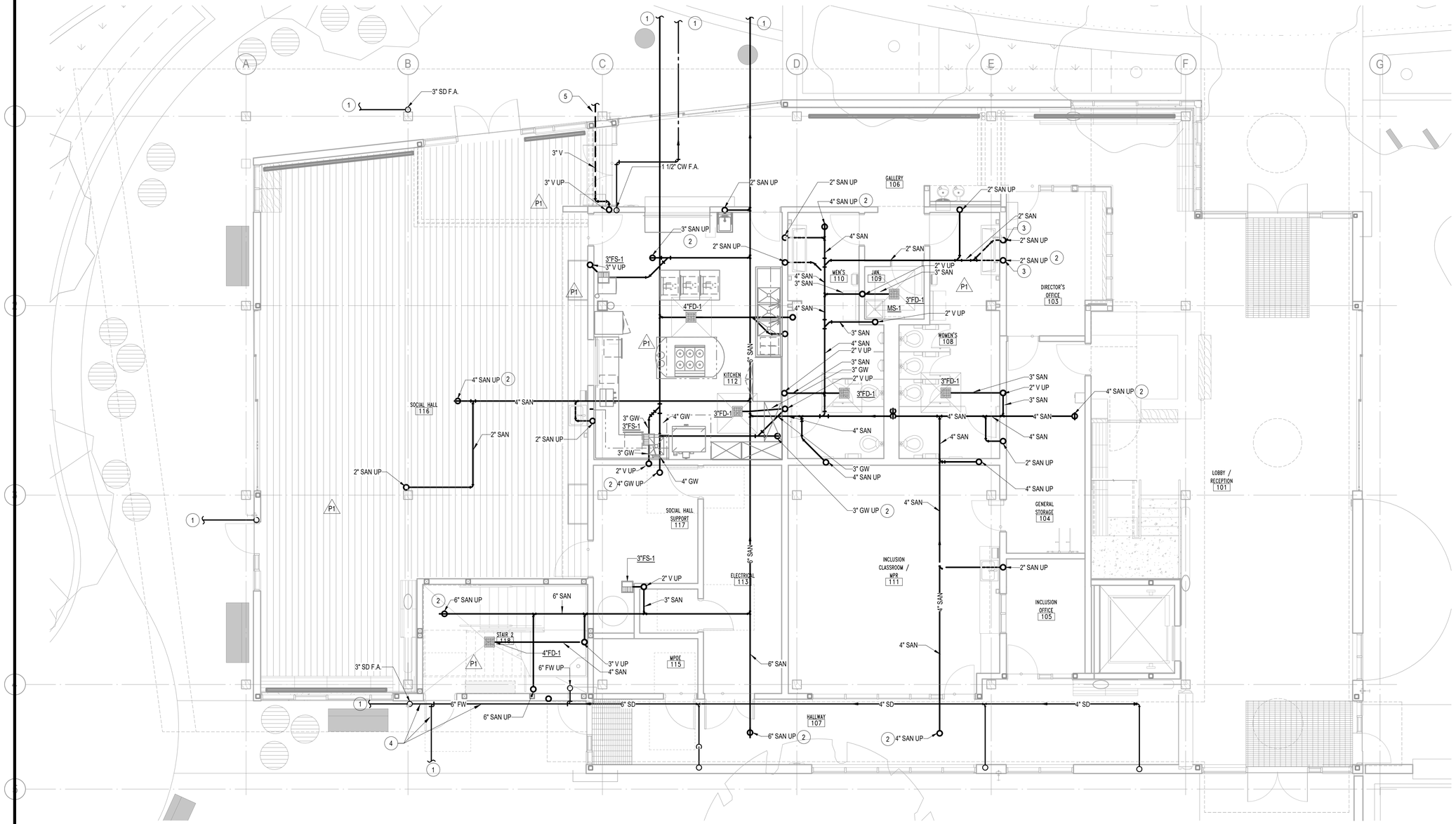
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/19/2022 2:55:13 PM

PLUMBING GENERAL NOTES:

A. SMD FOR EXACT CONDENSATE CONNECTION LOCATIONS
B. ALL OVERFLOW DOWNSPOUTS (DN-1) TO DAYLIGHT 1'-0" AFG.
C. PROVIDE CLEANOUTS AT ALL LOCATIONS REQUIRED IN CPC SECTION 707, 719:
   a. MAXIMUM OF DISTANCE OF 100' BETWEEN CLEANOUTS
   b. UPPER TERMINAL OF DRAINAGE PIPES
   c. EACH HORIZONTAL CHANGE OF DIRECTION OF 135 DEGREES
   d. ABOVE THE FIXTURE FITTING OF EACH URINAL
   e. AT FIXTURES MORE THAN 5' FROM BRANCH AND @ END OF LINE.
D. PROVIDE VENTS AT EACH FIXTURE PER CPC TABLE 703.2

PLUMBING SHEET NOTES:

1. SEE SHEET P1.1 FOR CONTINUATION
2. UP TO FCO
3. PROVIDE HOLDRITE "SILIENCER" PLUMBING SUPPORTS.
4. COORDINATE WITH JOINT TRENCH REQUIREMENTS PRIOR TO INSTALLATION. REFER TO CIVIL DRAWINGS FOR DESIGN INTENT, CLEARANCE, AND SPACIAL REQUIREMENTS.
5. 3" V FROM GREASE INTERCEPTOR REFER TO P1.1 FOR CONTINUATION.



1 P2.0 PLUMBING - FIRST FLOOR BELOW GRADE PLAN
SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title
PLUMBING FIRST FLOOR UNDERGROUND PLAN - PHASE 1

Drawing No.
P2.0

Sheet No.

LMSA PROJECT NUMBER: 1902

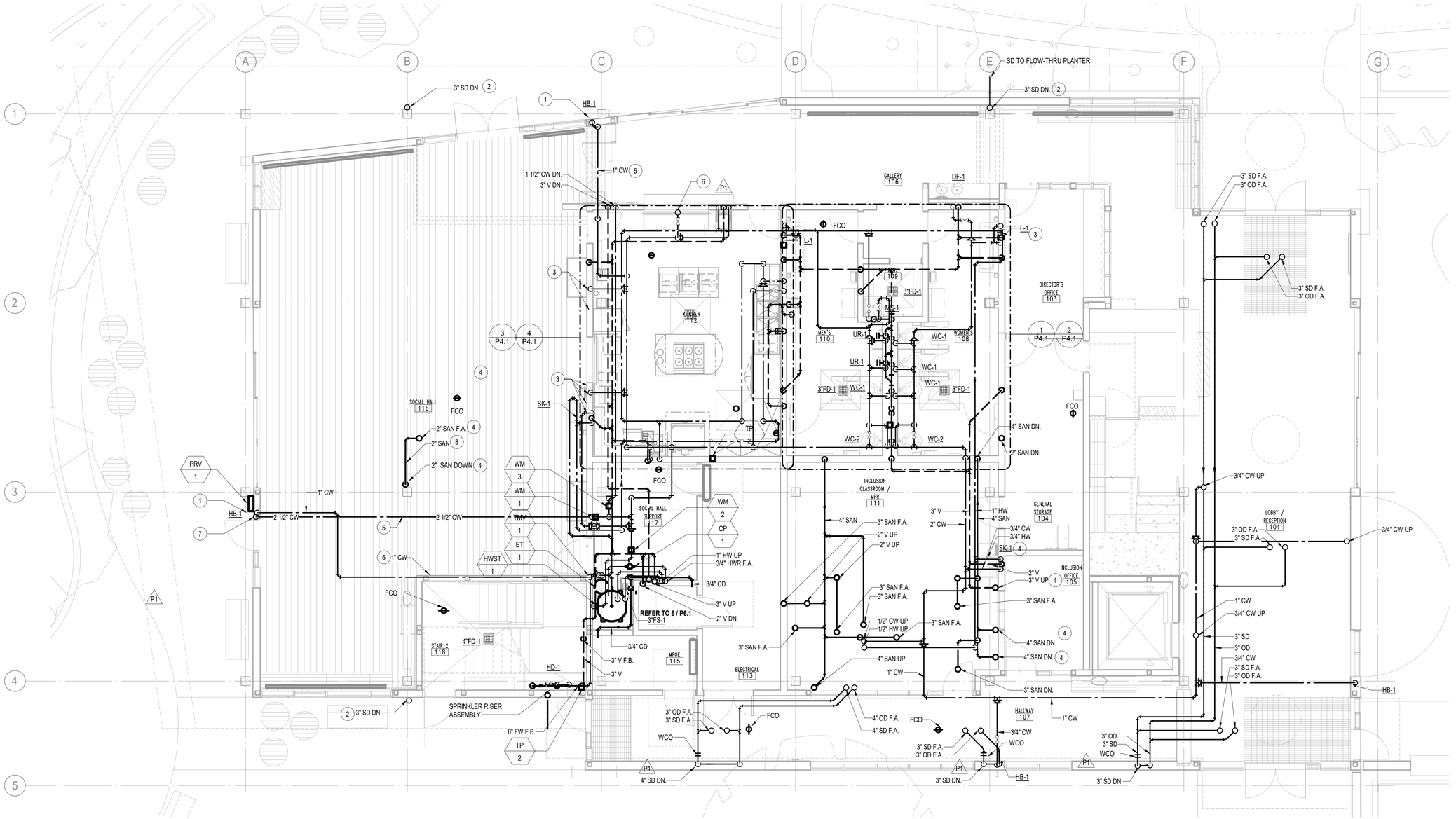
PLOT DATE: 7/15/2022 4:46:32 PM

PLUMBING GENERAL NOTES:

A. SMD FOR EXACT CONDENSATE CONNECTION LOCATIONS
B. ALL OVERFLOW DOWNSPOUTS (DN-1) TO DAYLIGHT 1'-0" AFG.
C. PROVIDE CLEANOUTS AT ALL LOCATIONS REQUIRED IN CPC SECTION 707, 719:
   a. MAXIMUM OF DISTANCE OF 100' BETWEEN CLEANOUTS
   b. UPPER TERMINAL OF DRAINAGE PIPES
   c. EACH HORIZONTAL CHANGE OF DIRECTION OF 135 DEGREES
   d. ABOVE THE FIXTURE FITTING OF EACH URINAL.
   e. AT FIXTURES MORE THAN 5' FROM BRANCH AND @ END OF LINE.
D. PROVIDE VENTS AT EACH FIXTURE PER CPC TABLE 703.2

(#) PLUMBING SHEET NOTES:

1. PROVIDE IN-WALL SOV AND ACCESS PANEL
2. PROVIDE CLEANOUT AND TRANSITION FROM DOWNSPOUT SAD
3. PROVIDE HOLDRITE "SILIENCER" PLUMBING SUPPORTS.
4. WRAP PIPING WITH ACOUSTICAL LAGGING AND PROVIDE SUPPORTS WITH FELT LINED HANGERS AND NEOPRENE WAFFLE PADS AT RISER CLAMPS.
5. ROUTE ABOVE CEILING AND PENETRATE THROUGH BEAMS, SAD SSD.
6. 3/4" CW UP TO HB-1 ABOVE.
7. 2-1/2" COLD WATER MAIN FROM BELOW THROUGH PRV STATION. SEE DETAIL 7/P61. FOR DETAILS.
8. ROUTE PIPE TIGHT TO CENTER AND BOTTOM OF BEAM, SAD.



1 / P2.1 PLUMBING - FIRST FLOOR
SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title
PLUMBING FIRST FLOOR PLAN - PHASE 1

Drawing No.
P2.1

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:40:41 PM

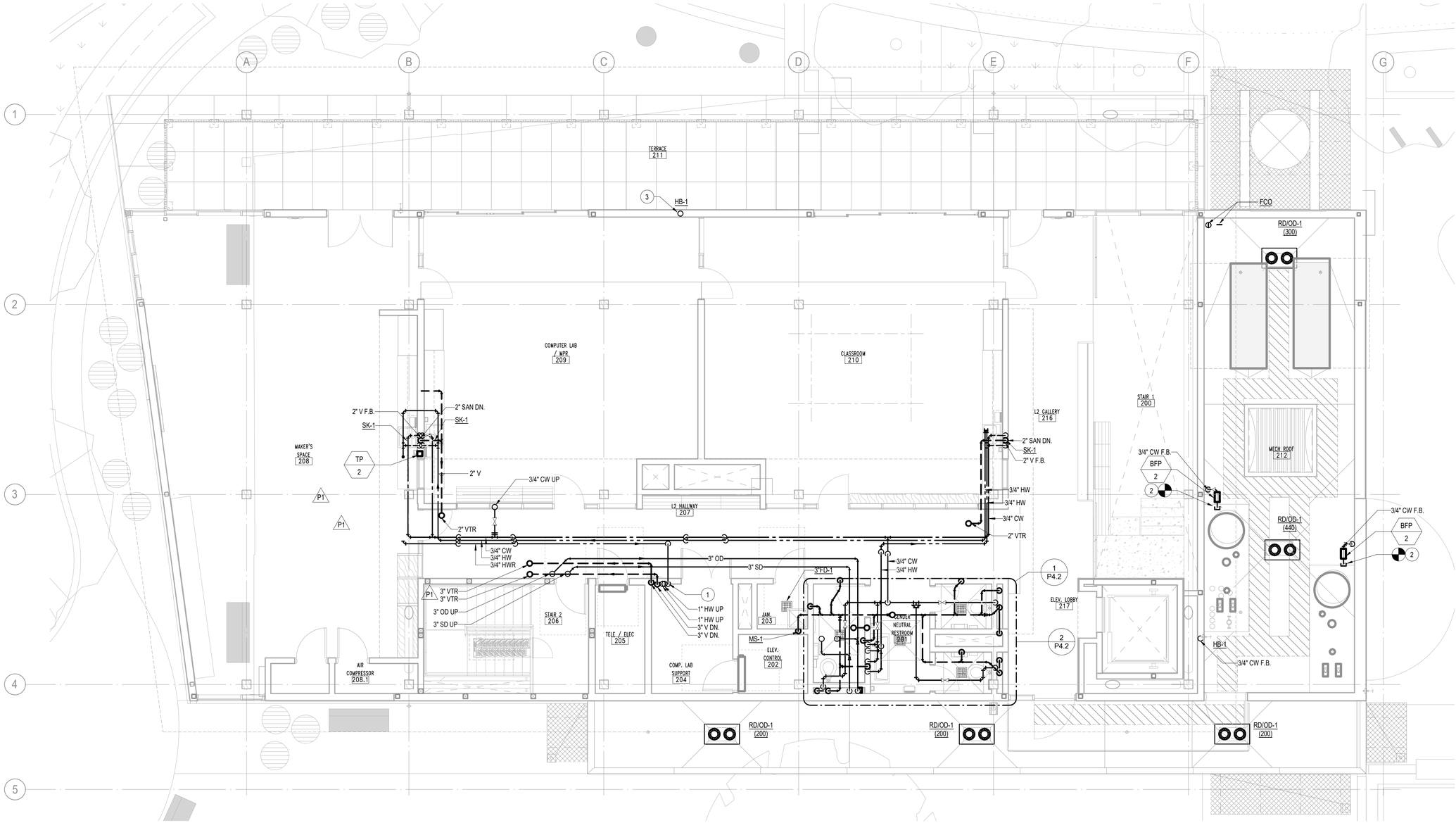
PLUMBING GENERAL NOTES:

A. SMD FOR EXACT CONDENSATE CONNECTION LOCATIONS
B. ALL OVERFLOW DOWNSPOUTS (DN-1) TO DAYLIGHT 1'-0" AFG.
C. PROVIDE CLEANOUTS AT ALL LOCATIONS REQUIRED IN CPC SECTION 707, 719:
   a. MAXIMUM OF DISTANCE OF 100' BETWEEN CLEANOUTS
   b. UPPER TERMINAL OF DRAINAGE PIPES
   c. EACH HORIZONTAL CHANGE OF DIRECTION OF 135 DEGREES
   d. ABOVE THE FIXTURE FITTING OF EACH URINAL
   e. AT FIXTURES MORE THAN 5' FROM BRANCH AND @ END OF LINE.
D. PROVIDE VENTS AT EACH FIXTURE PER CPC TABLE 703.2

(#) PLUMBING SHEET NOTES:

1. HW FROM HOT WATER SYSTEM BELOW TO HEAT PUMP ABOVE
2. MAKE-UP WATER CONNECTION, SMD FOR CONTINUATION.
3. 3/4" CW FROM BELOW TO SERVE HB-1.
4. ROUTE 2"V UNDERCOUNTER, ROUTE VENT UP IN PLUMBING CHASE AND CONNECT TO VENT MAIN.

P1



1 P2.2 PLUMBING - SECOND FLOOR
SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title
PLUMBING SECOND FLOOR PLAN - PHASE 1

Drawing No.
P2.2
Sheet No.

LMSa PROJECT NUMBER: 1902
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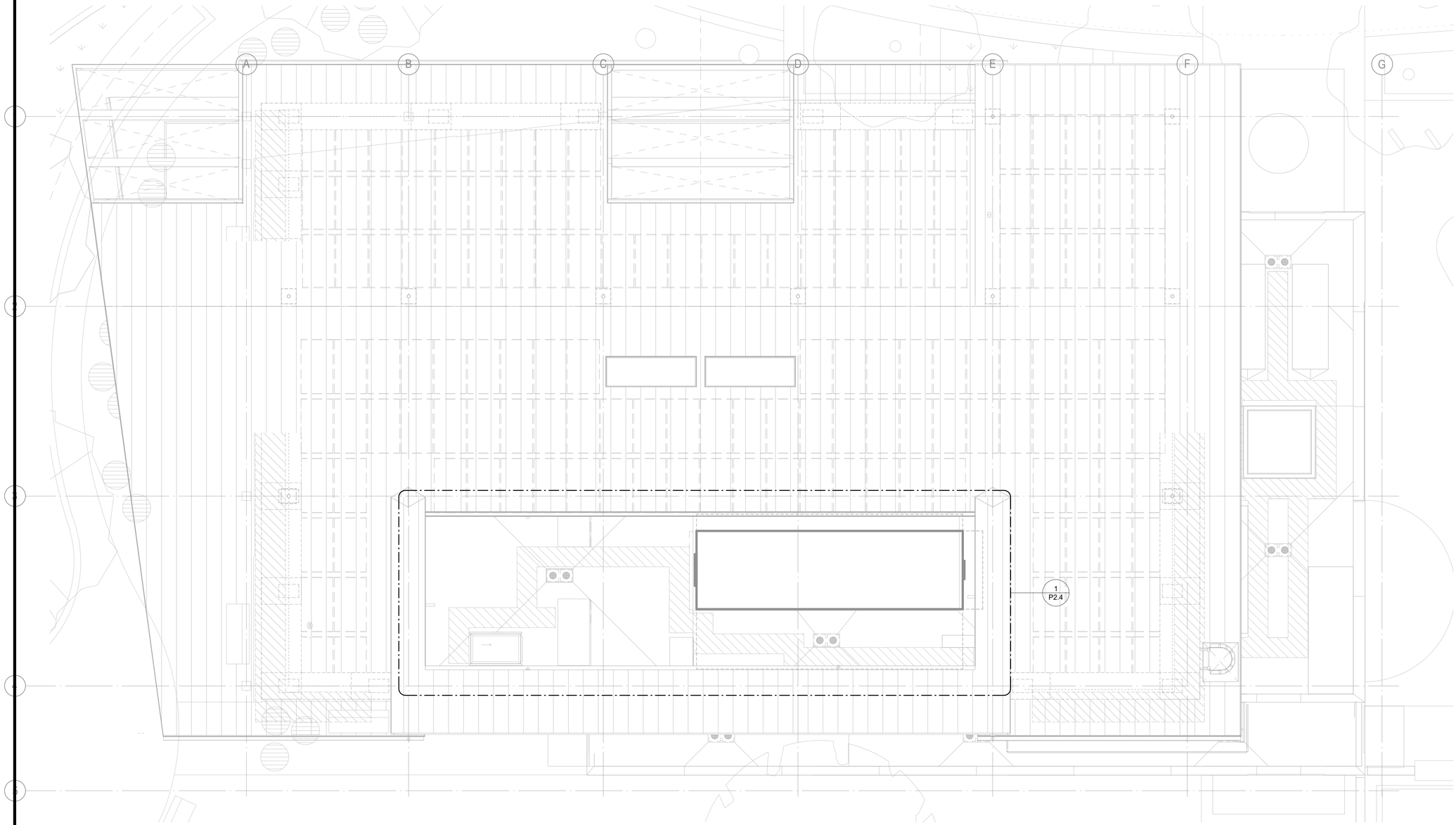

1 / P2.3 PLUMBING - ROOF LEVEL PLAN

SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title

PLUMBING ROOF PLAN - PHASE 1

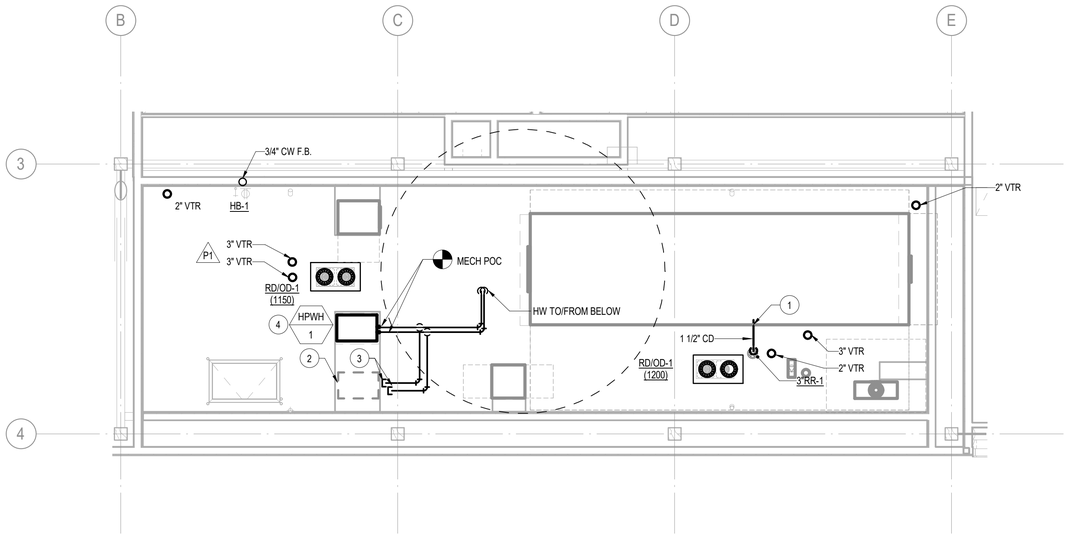
Drawing No.

P2.3

Sheet No.

(#) PLUMBING SHEET NOTES:

1. SMD FOR EXACT MECH EQUIPMENT LOCATIONS, INSTALL CONDENSATE DRAIN AND TRAP PER MFR RECOMENDATIONS
2. LOCATION FOR FUTURE HPWH.
3. MECHANICAL PIPE SUPPLY CAPPED FOR FUTURE HPWH SERVICE.
4. INSTALL HPHW WATER HEATER ON PLATFORM OR STAINLESS STEEL STAND WITH SIX INCH LEGS. PLATFORM MUST HAVE APPROVED FINISHES WITH A 3/8" INTEGRAL COVERING RADIUS.



1 / P2.4 PLUMBING - UPPER MECH ROOF
SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title
PLUMBING UPPER MECH ROOF PLAN - PHASE 1

Drawing No.
P2.4

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:41:02 PM

PLUMBING SHEET NOTES:

1. SEE SHEET P1.1 FOR CONTINUATION.
2. PROVIDE WITH CHRONOMITE CM-30L/208 INSTANT FLOW POINT OF USE ELECTRIC WATER HEATER TO SUPPLY HOT WATER TO HB-2. 30 AMPS, 208 VOLTS, 10 AWG, 6240 WATTS MINIMUM ACTIVATION GPM 0.20. PROVIDE WITH STAINLESS STEEL HOUSING AND NEMA 4X DISCONNECT SWITCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. 3/4" COLD WATER UP TO SERVE INSTANTANEOUS WATER HEATER AND HB-2.
4. INSTANTANEOUS WATER HEATER.

P1

1 P04_SITE ENLARGED PLAN
1/4" = 1'-0"

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Drawing Title
PLUMBING ENLARGED PLANS

Drawing No.
P4.0
Sheet No.

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:41:06 PM

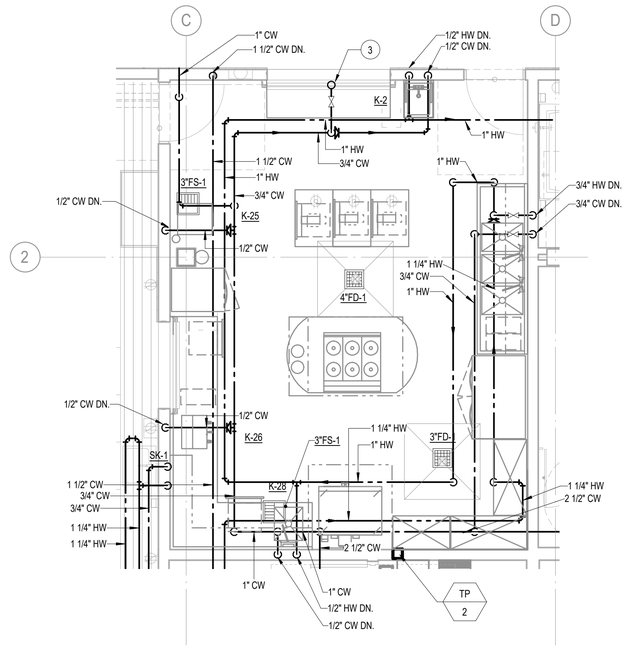
PLUMBING GENERAL NOTES:

A. SMD FOR EXACT CONDENSATE CONNECTION LOCATIONS
B. ALL OVERFLOW DOWNSPOUTS (DN-1) TO DAYLIGHT 1'-0" AFG.
C. PROVIDE CLEANOUTS AT ALL LOCATIONS REQUIRED IN CPC SECTION 707, 719:
   a. MAXIMUM OF DISTANCE OF 100' BETWEEN CLEANOUTS
   b. UPPER TERMINAL OF DRAINAGE PIPES
   c. EACH HORIZONTAL CHANGE OF DIRECTION OF 135 DEGREES
   d. ABOVE THE FIXTURE FITTING OF EACH URINAL.
   e. AT FIXTURES MORE THAN 5' FROM BRANCH AND @ END OF LINE.
D. PROVIDE VENTS AT EACH FIXTURE PER CPC TABLE 703.2

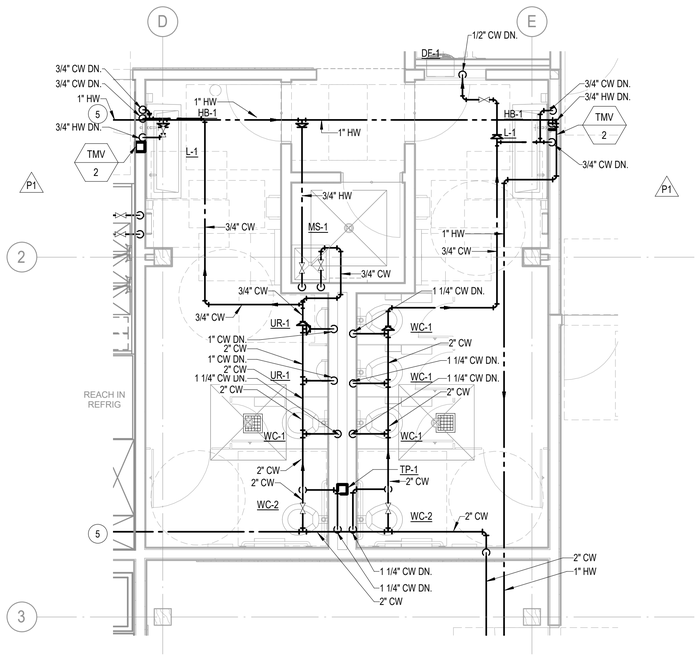
(#) PLUMBING SHEET NOTES:

1. PROVIDE WCO ABOVE FIXTURE FITTING OF URINALS
2. PROVIDE FLOOR DRAIN PROTECTION OF 3-COMP SINK PER DETAIL 5/P6.1
3. 3/4"CW UP TO HB-1 ABOVE.
4. REFER TO 3/P4.1 FOR CONTINUATION.
5. REFER TO 4/P4.1 FOR CONTINUATION.

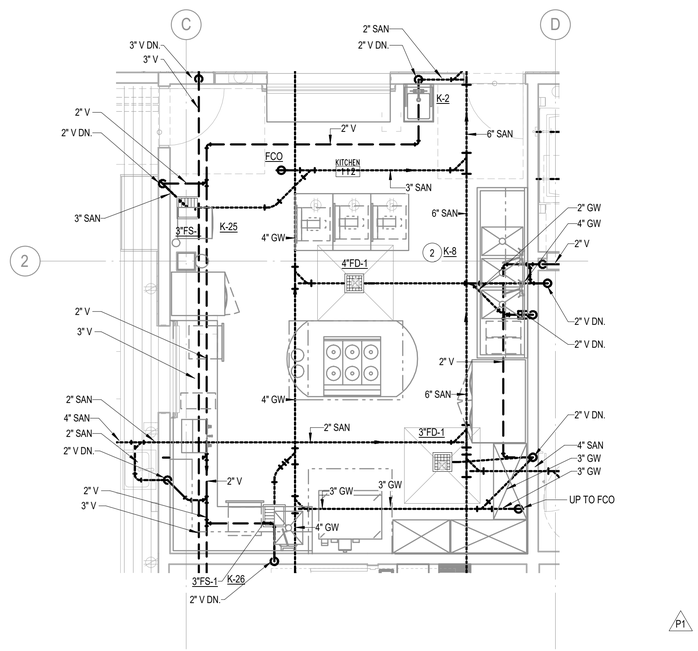
P1



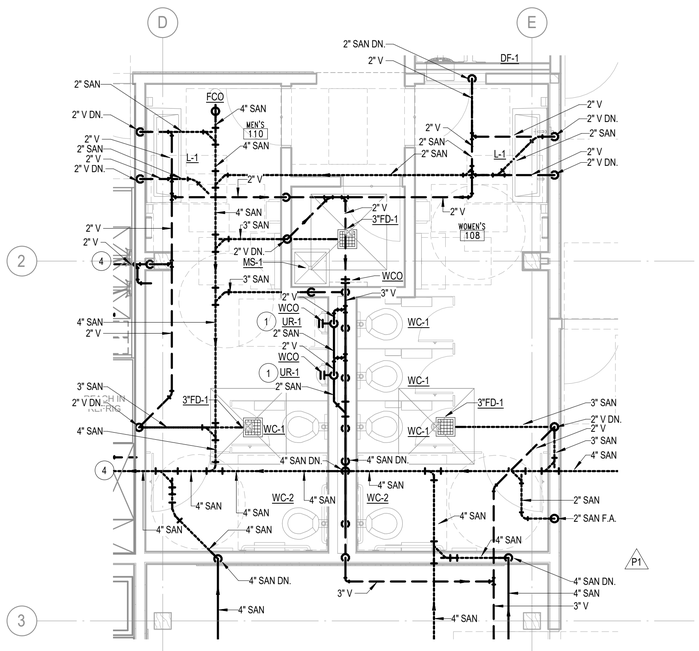
4 P04_PLBG_KITCHEN ENLARGED PLAN - DOMESTIC
1/4" = 1'-0"



2 P04_RESTROOM ENLARGED PLAN-DOMESTIC
1/4" = 1'-0"



3 P04_PLBG_KITCHEN ENLARGED PLAN - DRAINAGE
1/4" = 1'-0"



1 P04_RESTROOM ENLARGED PLAN-DRAINAGE
1/4" = 1'-0"

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Drawing Title
PLUMBING ENLARGED PLANS

Drawing No.
P4.1

Sheet No.

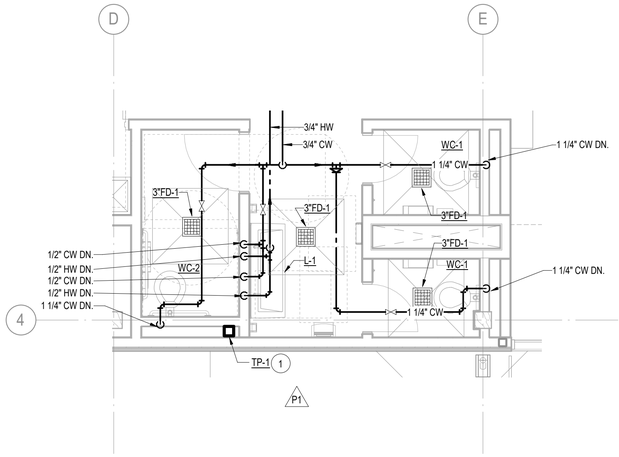
PLUMBING GENERAL NOTES:

A. SMD FOR EXACT CONDENSATE CONNECTION LOCATIONS
B. ALL OVERFLOW DOWNSPOUTS (DN-1) TO DAYLIGHT 1'-0" AFG.
C. PROVIDE CLEANOUTS AT ALL LOCATIONS REQUIRED IN CPC SECTION 707, 719:
   a. MAXIMUM OF DISTANCE OF 100' BETWEEN CLEANOUTS
   b. UPPER TERMINAL OF DRAINAGE PIPES
   c. EACH HORIZONTAL CHANGE OF DIRECTION OF 135 DEGREES
   d. ABOVE THE FIXTURE FITTING OF EACH URINAL.
   e. AT FIXTURES MORE THAN 5' FROM BRANCH AND @ END OF LINE.
D. PROVIDE VENTS AT EACH FIXTURE PER CPC TABLE 703.2

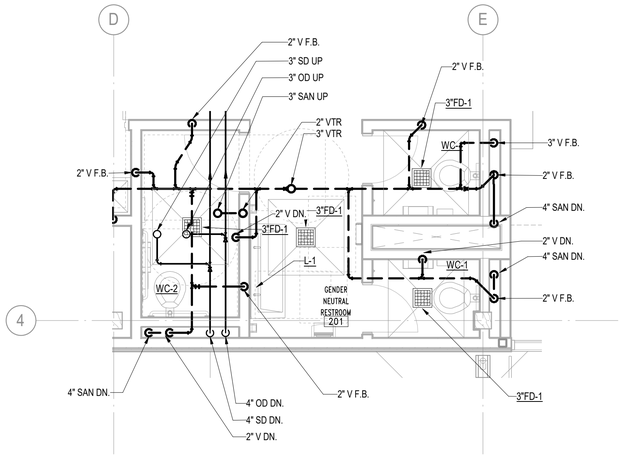
(#) PLUMBING SHEET NOTES:

1. PROVIDE 12" x 12" ACCESS DOOR FOR TRAP PRIMER.
2. PROVIDE FLOOR DRAIN PROTECTION OF 3-COMP SINK PER DETAIL 5/P6.1
3. 3/4"CW UP TO HB-1 ABOVE.
4. REFER TO 3/P4.1 FOR CONTINUATION.
5. REFER TO 4/P4.1 FOR CONTINUATION.

P1



2 PLUMBING - SECOND FLOOR
1/4" = 1'-0"



1 PLUMBING - SECOND FLOOR
1/4" = 1'-0"

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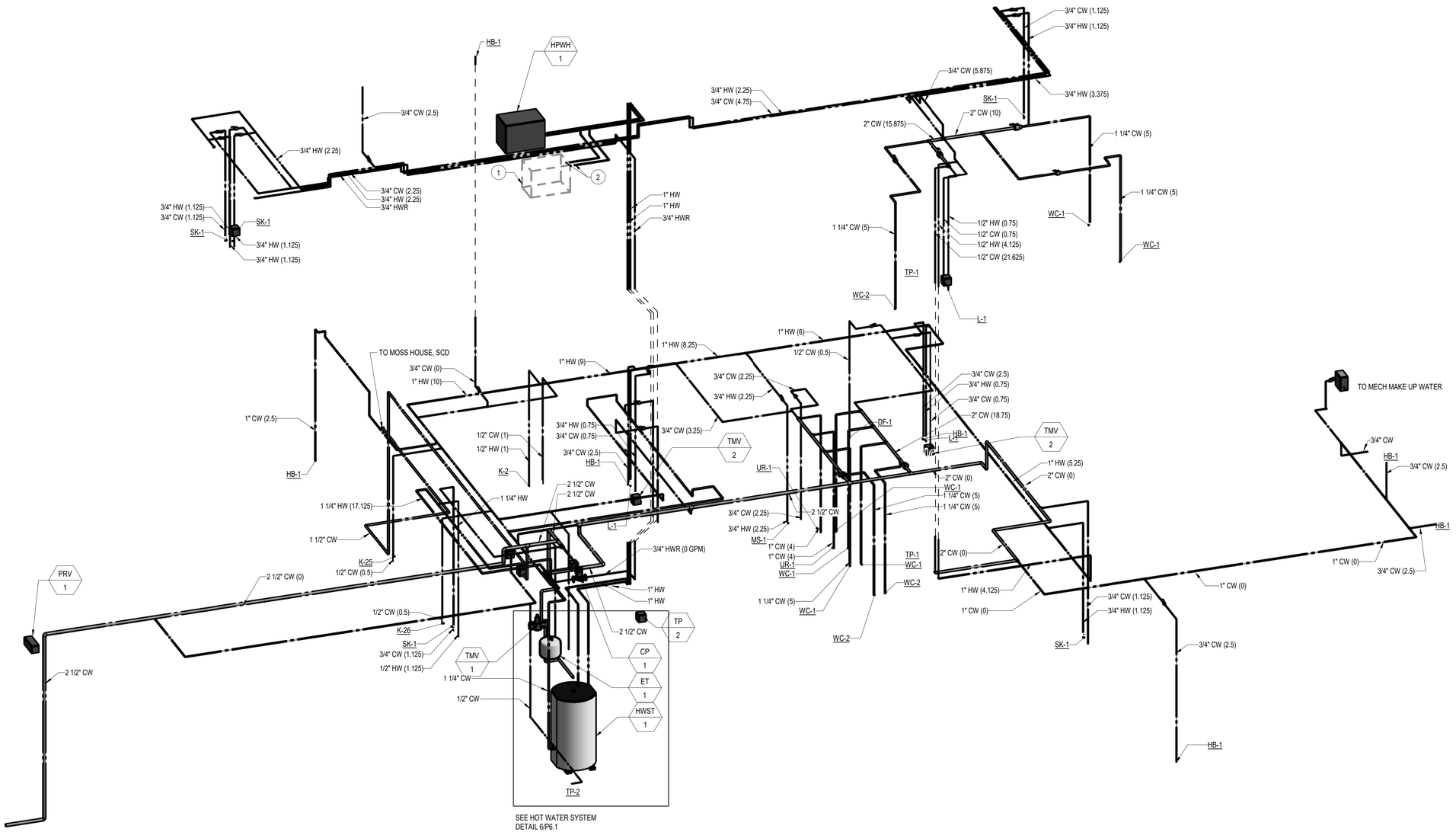
Drawing Title
PLUMBING ENLARGED PLANS

Drawing No.
P4.2
Sheet No.

LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:41:21 PM

(#) PLUMBING SHEET NOTES:

1. LOCATION FOR FUTURE HPWH.
2. MECHANICAL PIPE SUPPLY CAPPED FOR FUTURE HPWH SERVICE.



1 PLUMBING - SUPPLY RISER DIAGRAM

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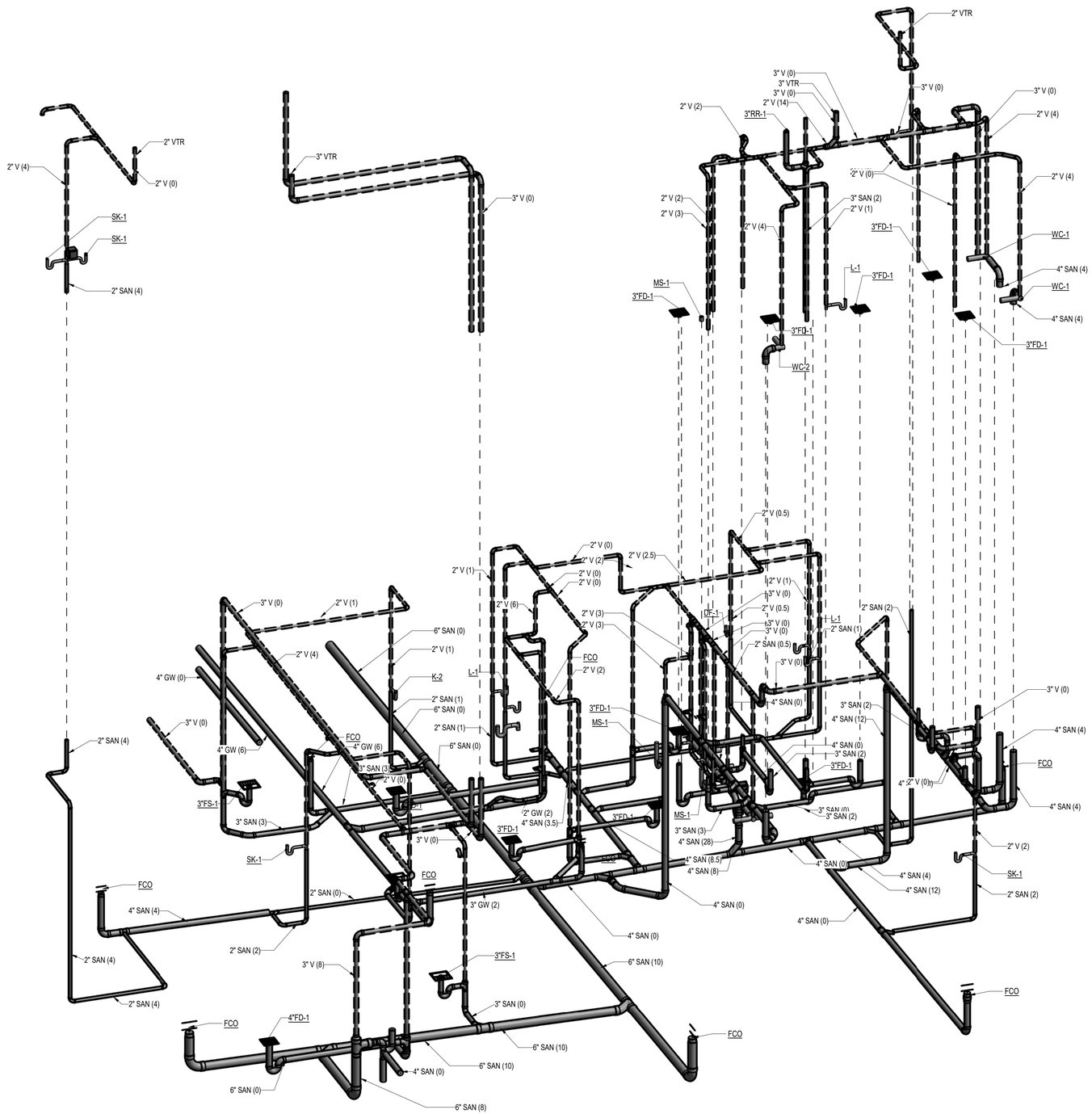
Drawing Title

PLUMBING RISER DIAGRAMS

Drawing No.

P5.1

Sheet No.



1 PLUMBING - DRAINAGE RISER DIAGRAM

P1

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Drawing Title

PLUMBING RISER DIAGRAMS

Drawing No.

P5.2

Sheet No.

LMSA PROJECT NUMBER: 1902

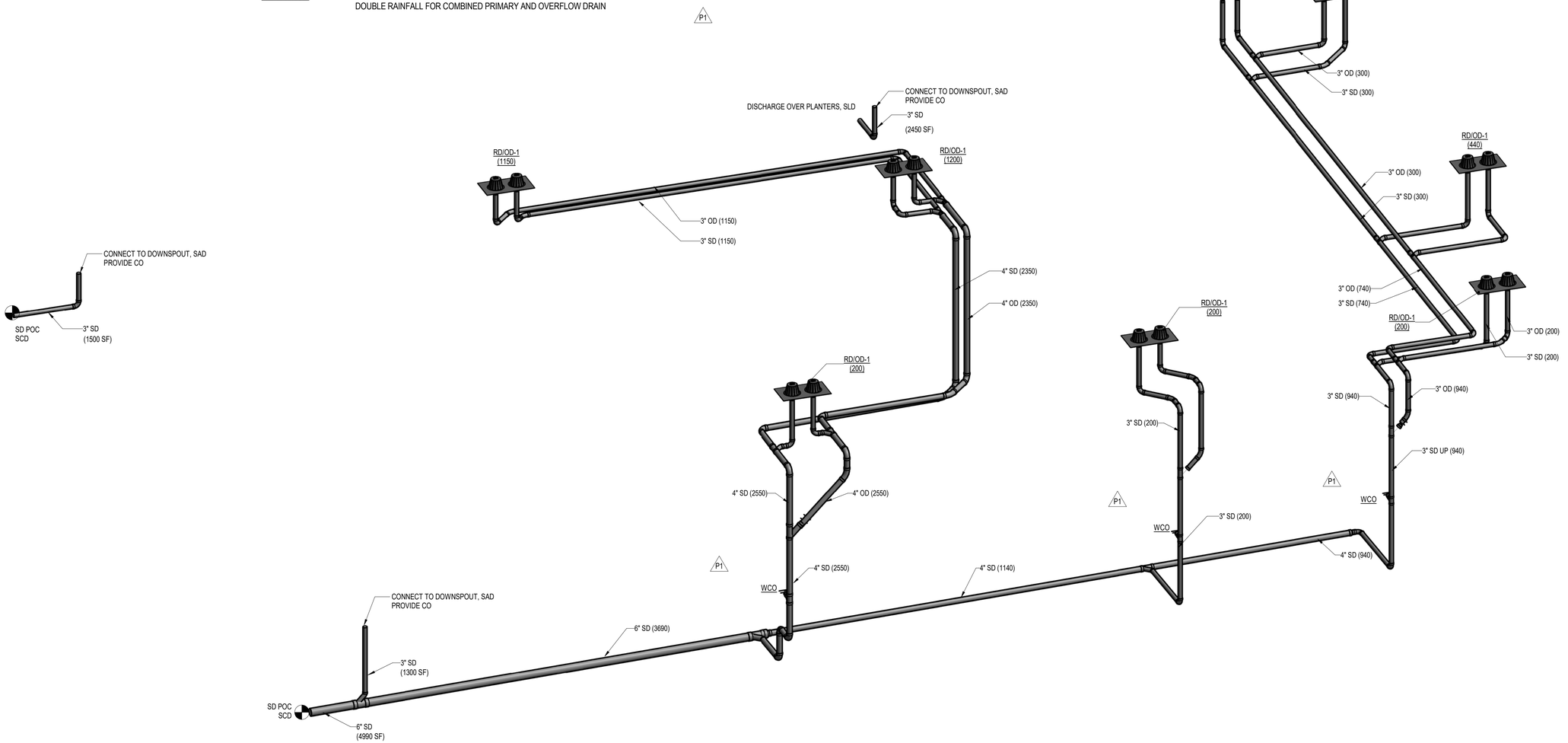
PLOT DATE: 7/15/2022 4:41:36 PM

STORM PIPE SIZING TABLE		
DESIGN RAINFALL RATE	1.5 IN/HR	
PIPE SIZE (IN)	MAX AREA BASED ON LOCAL RAINFALL RATE AT 1% SLOPE	
	VERTICAL	HORIZONTAL
2"	1920	-
3"	5867	2192
4"	12267	5013
6"	36000	14267
8"	77333	30667
10"	-	55200
15"	-	158667

REFERENCE: CPC 2019 TABLE 1103.2

STORM PIPE SIZING TABLE		
DESIGN RAINFALL RATE	3 IN/HR	
PIPE SIZE (IN)	MAX AREA BASED ON LOCAL RAINFALL RATE AT 1% SLOPE	
	VERTICAL	HORIZONTAL
2"	960	-
3"	2933	1096
4"	6133	2507
6"	18000	7133
8"	38667	15333
10"	-	27600
15"	-	79333

REFERENCE: CPC 2019 TABLE 1101.12.2.2.
DOUBLE RAINFALL FOR COMBINED PRIMARY AND OVERFLOW DRAIN



1 PLUMBING - STORM RISER DIAGRAM FULL

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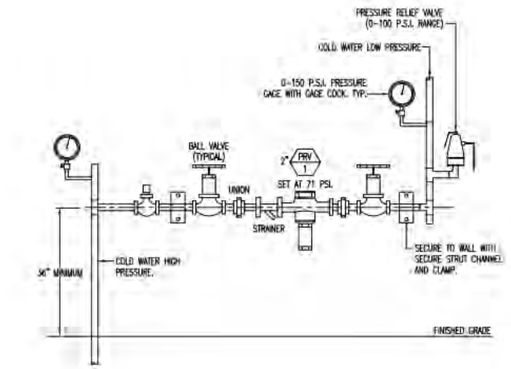
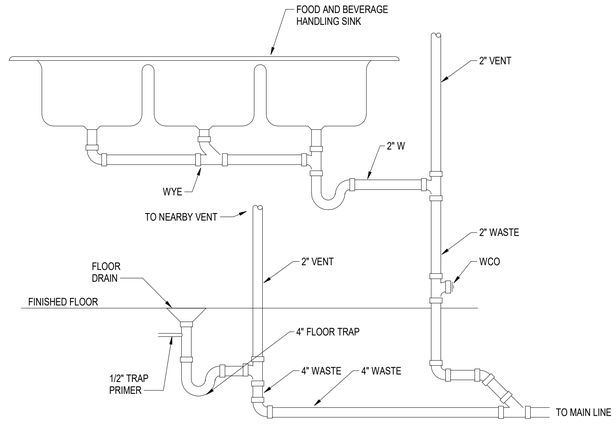


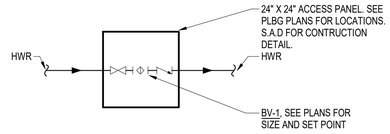
7 PRV DETAIL
12" = 1'-0"



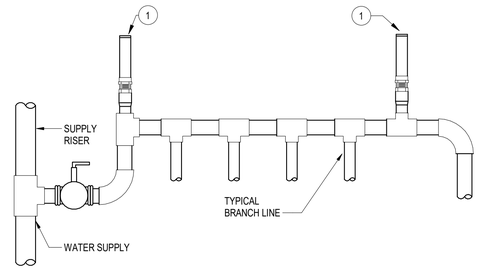
NOTES:

1. FLOOR DRAIN SHALL BE CENTRALLY LOCATED ADJACENT TO THREE COMPARTMENT SINK.
2. FIXTURE SHALL BE CONNECTED ON THE SEWER SIDE OF THE FLOOR DRAIN TRAP.
3. NO DRAINAGE LINE SHALL BE CONNECTED BETWEEN THE FLOOR DRAIN WASTE CONNECTION AND THE FIXTURE DRAIN.
4. REFER TO CPC 1101.12.2.2.2

5 3 COMPARTMENT SINK DIRECT CONNECTION DETAIL.
12" = 1'-0"



3 BALANCING VALVE ASSEMBLY
NTS



#

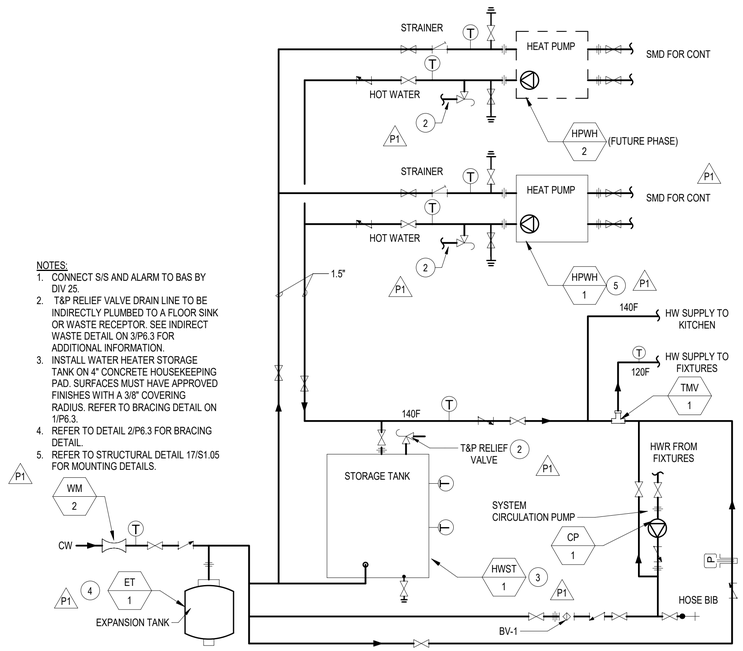
SHEET NOTES:

1. INSTALL WATER HAMMER ARRESTER AT THE BEGINNING OF THE BRANCH LINE AND AT THE END OF BRANCH LINE BETWEEN THE LAST TWO FIXTURES FOR BRANCH LINES GREATER THAN 10 FEET. FOR BRANCHES OVER 20 FEET, PROVIDE AN ADDITIONAL WATER HAMMER ARRESTER AT BRANCH MIDPOINT.

NOTES:

1. INSTALLATION SHALL COMPLY WITH STANDARD PDI-WH 201 AND PER MANUFACTURER'S REQUIREMENTS
2. WHEN THE FLOW PRESSURE EXCEEDS 65 PSIG, PROVIDE THE NEXT LARGER SIZE WATER HAMMER ARRESTER.
3. PROVIDE WATER HAMMER ARRESTER(S) AT FIXTURES WHERE QUICK CLOSING VALVES ARE INSTALLED PER CPC 609.10, INCLUDING BUT NOT LIMITED TO WATER CLOSETS, URINALS, SENSOR FAUCETS, CLOTHES WASHERS, DRINKING FOUNTAINS, AND BOTTLE FILLERS.

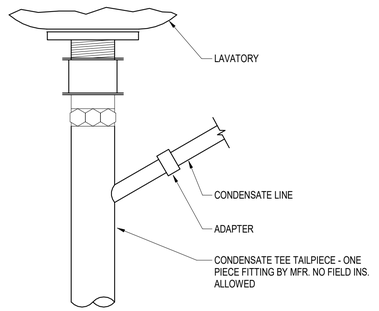
2 WATER HAMMER ARRESTOR
NTS



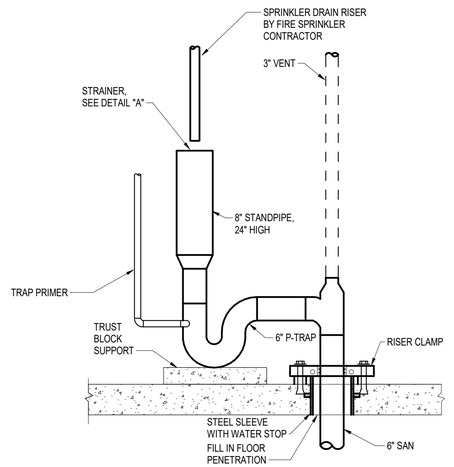
NOTES:

1. CONNECT S/S AND ALARM TO BAS BY DIV 25.
2. T&P RELIEF VALVE DRAIN LINE TO BE INDIRECTLY PLUMBED TO A FLOOR SINK OR WASTE RECEPTOR. SEE INDIRECT WASTE DETAIL ON 3/P6.3 FOR ADDITIONAL INFORMATION.
3. INSTALL WATER HEATER STORAGE TANK ON 4" CONCRETE HOUSEKEEPING PAD. SURFACES MUST HAVE APPROVED FINISHES WITH A 3/8" COVERING RADIUS. REFER TO BRACING DETAIL ON 1/P6.3.
4. REFER TO DETAIL 2/P6.3 FOR BRACING DETAIL.
5. REFER TO STRUCTURAL DETAIL 17/S1.05 FOR MOUNTING DETAILS.

6 DOMESTIC HOT WATER HEATING SYSTEM DETAIL
NTS



4 LAVATORY CONDENSATE CONNECTION
NTS



1 HUB DRAIN
NTS

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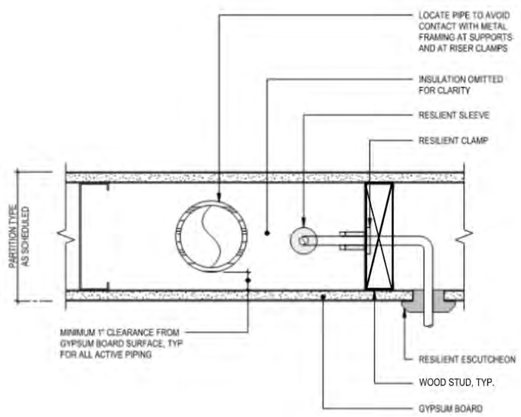
P6.1

Sheet No.

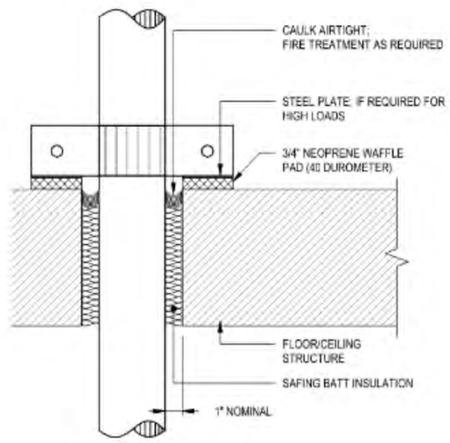
Acoustical Plumbing Wall



PLAN VIEW

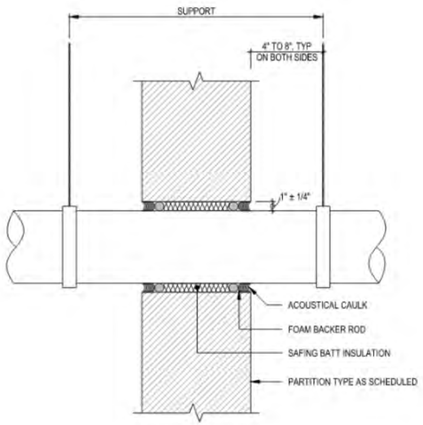
NOTES:
1. RESILIENT PIPE SUPPORTS EQUAL TO ACOUSTO-PLUMB OR HOLDRITE "SILENCER".
2. SIZE PARTITION TO ACCOMODATE LARGEST PIPE SIZE.

Isolated Riser Clamp



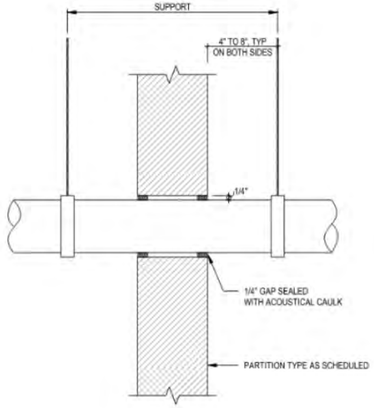
SECTION VIEW

Penetrations ≥ 3" Diameter



SECTION VIEW

Penetrations < 3" Diameter



SECTION VIEW

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P6.2

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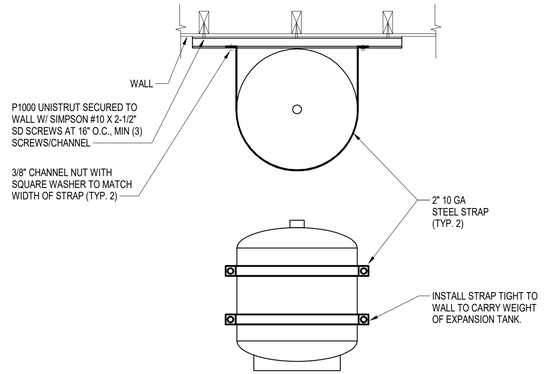
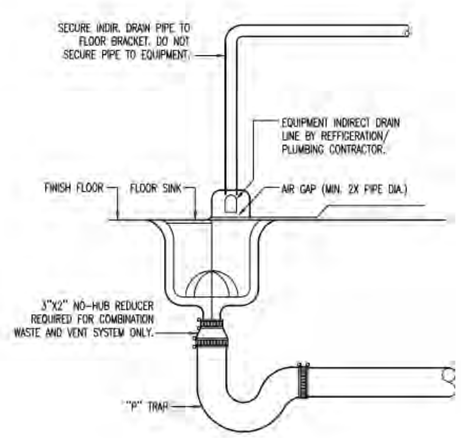
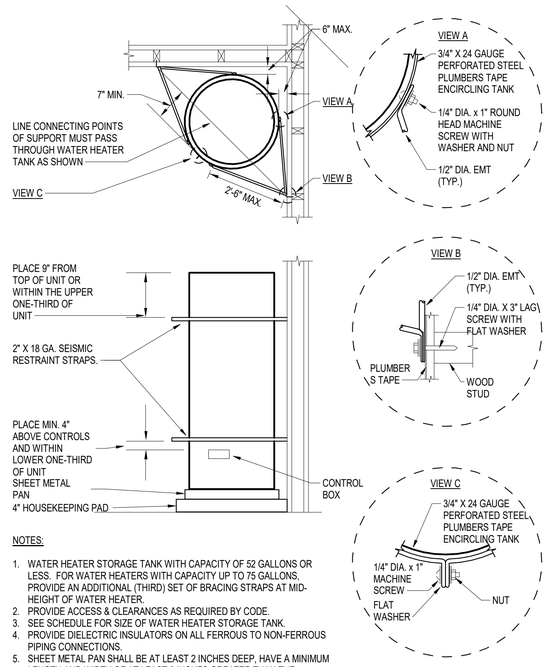


2 EXPANSION TANK RESTRAINT DETAIL



3 INDIRECT WASTE DETAIL



NOTES:

1. WATER HEATER STORAGE TANK WITH CAPACITY OF 52 GALLONS OR LESS. FOR WATER HEATERS WITH CAPACITY UP TO 75 GALLONS, PROVIDE AN ADDITIONAL (THIRD) SET OF BRACING STRAPS AT MID-HEIGHT OF WATER HEATER.
2. PROVIDE ACCESS & CLEARANCES AS REQUIRED BY CODE.
3. SEE SCHEDULE FOR SIZE OF WATER HEATER STORAGE TANK.
4. PROVIDE DIELECTRIC INSULATORS ON ALL FERROUS TO NON-FERROUS PIPING CONNECTIONS.
5. SHEET METAL PAN SHALL BE AT LEAST 2 INCHES DEEP, HAVE A MINIMUM LENGTH AND WIDTH OF AT LEAST 2 INCHES GREATER THAN THE DIAMETER OF THE HEATER, AND SHALL BE PIPED TO AN ADEQUATE DRAIN.
6. HOUSEKEEPING PAD SHALL BE 4 INCHES DEEP AND HAVE A MINIMUM LENGTH AND WIDTH OF AT LEAST 6 INCHES GREATER THAN THE DIAMETER OF THE HEATER.
7. 3/8" MIN DIAx3" SIMPSON SB2 WITHJ 2-1/2" MIN EMBEDMENT INTO CONCRETE.

1 WATER HEATER STORAGE TANK RESTRAINT DETAIL

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P1
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GENERAL ELECTRICAL NOTES

A. **GENERAL PROVISIONS:**

1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END, CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS NECESSARY, FURNISH AND INSTALL ALL APPARATUS, MATERIALS, AND EQUIPMENT IN A MANNER COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.
2. ALL CONDUCTORS SHALL BE COPPER, TYPE "THWN/THNN" 90 DEGREE INSULATION. ALL LUGS SHALL BE 75 DEGREE MINIMUM. ALL CONDUIT SHALL BE EMT OR RIGID STEEL. USE OF FLEX IS NOT ALLOWED EXCEPT UP TO 6 FOOT FOR FINAL CONNECTION TO LIGHTING FIXTURES OR VIBRATING EQUIPMENT.
3. BEFORE SUBMITTING THE BID PROPOSAL, CONTRACTOR SHALL VISIT THE JOB SITE TO BECOME FAMILIAR WITH THE SITE CONDITIONS, REQUIREMENTS, INCLUDING ALL NECESSARY ADDITIONAL SCOPE OF WORK, WHETHER SHOWN ON DRAWING(S) OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
4. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND WIRING DIAGRAMS FOR ITEMS AND DEVICES TO BE FURNISHED, INSTALLED AND/OR CONNECTED FOR A COMPLETE AND OPERABLE HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SYSTEM. VERIFY EXACT LOCATION OF HVAC EQUIPMENT AND CONDUIT TERMINATION AT EQUIPMENT WITH MECHANICAL CONTRACTOR.
5. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL CONSTRUCTION DRAWINGS FOR DIMENSIONS.
6. ALL PERMITS SHALL BE PROCURED FROM ALL LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTION AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH, COMPLY WITH CODES. PRESENT THE SIGNED CERTIFICATE OF FINAL INSPECTION TO THE OWNER'S REPRESENTATIVE PRIOR TO PRESENTING THE WORK FOR FINAL ACCEPTANCE.
7. CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDING.
8. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND ILLUMINATION FOR ALL TRADES. ALL COSTS OF LABOR AND COST MATERIAL REQUIRED FOR THE TEMPORARY ELECTRICAL SERVICE SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT.
9. ELECTRICAL ROOMS HAVING A TRANSFORMER(S) RATED 112.5KVA OR ABOVE SHALL BE PROVIDED WITH 1-HOUR FIRE-RATED ENCLOSURE.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS, ACCEPTABLE MATERIALS, COORDINATION REQUIREMENTS, TESTING, STARTUP, TRAINING AND PROJECT CLOSEOUT.
11. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR. FOR LOCATION OF DISCONNECT SWITCH, COORDINATE WITH EQUIPMENT SUPPLIER TO DETERMINE THE BEST LOCATION ON SITE WHILE REMAINING ACCESSIBLE.
12. CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING.
13. PROVIDE PULL ROPE IN ALL EMPTY CONDUITS.
14. COORDINATE ROUTING OF RACEWAYS FEEDERS AND HOMERUNS IN COOPERATION WITH THE WORK OF OTHER TRADES.
15. EXPOSED RACEWAYS ON ROOF SHALL BE AMBIENT TEMPERATURE COMPENSATED PER NEC TABLE 310-15(B)(2)(C) BASED UPON DISTANCE RACEWAY IS MOUNTED ABOVE ROOF AND DESIGN TEMPERATURE OF ROOF.
16. NO MORE THAN THREE CIRCUITS PER HOME RUN. DO NOT COMBINE HOMERUNS WITHOUT PRIOR APPROVAL..
17. NO INTERMEDIATE SPLICING OF FEEDERS OR BRANCH CIRCUITS SHALL BE DONE WITHOUT PRIOR APPROVAL.
18. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1-1/4 INCH.
19. FOR 120V, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.

B. **POWER:**

1. PROVIDE CONCRETE PADS (MINIMUM 4" HIGH OR AS INDICATED) FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT INSTALLED IN EQUIPMENT ROOMS AND IN AREAS SUSCEPTIBLE TO BEING WET OR HOSED DOWN. SUBMIT PAD DETAIL PLANS INCLUDING DIMENSIONS FOR APPROVAL.
2. THE LOCATION OF ALL OUTLETS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS BY THE CONTRACTOR PRIOR TO INSTALLATION. MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, WIRING DEVICES AND DEDICATED EQUIPMENT OUTLETS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
3. ALL DISCONNECT SWITCHES SHALL BE PAD-LOCKABLE IN THE "OFF" POSITION.
4. ALL FEEDER LENGTH SHOWN ON SINGLE LINE DIAGRAM ARE FOR VOLTAGE DROP CALCULATION ONLY. DO NOT USE FOR ANY OTHER PURPOSES.
5. VERIFY AND COORDINATE EXACT LOCATION, POWER REQUIREMENTS AND METHOD OF CONNECTION OF ALL MECHANICAL EQUIPMENT AND PERTINENT ITEMS AND DEVICES PRIOR TO INSTALLATION OF ELECTRICAL SYSTEM.
6. PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS, WHERE THEY ARE INSTALLED IN PARALLEL OR IN THE SAME TRENCH.
7. LABEL ALL RECEPTACLES, J-BOXES, DISCONNECT SWITCHES AND CONTROL DEVICES WITH THEIR SERVING CIRCUIT NUMBERS. LABELS SHALL BE PER THE SPECIFICATION.
8. PROVIDE A MINIMUM 24" HORIZONTAL SEPARATION THAT USUALLY APPLIES BETWEEN BOXES INSTALLED ON OPPOSITE SIDES OF THE WALL IN ORDER TO MAINTAIN THE FIRE-RESISTIVE RATING OF ASSEMBLIES WHERE PENETRATION OR OPENINGS ARE MADE.

C. **LIGHTING:**

1. ALL LIGHTING FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL VERIFY THE TYPE OF CEILING, COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE FOR PROVIDING ALL FIXTURES. MOUNTING HARDWARE TO FIT CEILING CONDITIONS AT NO EXTRA COST TO THE OWNER.
3. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION, LIGHTING PLACEMENT AND QUANTITIES.
4. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF WALL MOUNTED LIGHTING FIXTURES.
   a. LIGHTING IN ELECTRICAL, MECHANICAL TELE/COM AND EQUIPMENT ROOMS ARE SHOWN FOR QUANTITY ONLY. ACTUAL FIXTURE LOCATIONS TO BE DETERMINED AFTER COORDINATING WITH WORK OF ALL OTHER TRADES. FIXTURES TO BE LOCATED SO THAT MAINTENANCE AND LIGHT OUTPUT ARE NOT OBSTRUCTED. FIXTURES ARE TO BE INSTALLED AFTER ALL OTHER WORK IS SUBSTANTIALLY COMPLETE.

D. **GROUNDING:**

1. THE EQUIPMENT GROUNDING CONDUCTOR SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PIGTAILED TO BOX AND DEVICE. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS.
2. GROUNDING OF CABLE TRAY SHALL BE PER NEC 392.60 A, B, C.
3. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING AND POWER CONDUITS.

E. **PENETRATIONS:**

1. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL IN ACCORDANCE WITH CBC SECTION 709.6. SPACE BETWEEN PENETRATING MATERIALS (DESCRIBED BELOW) MUST BE DESIGNED TO PREVENT THE SPREAD OF HOT FLAME OR GASES.
2. COPPER OR FERROUS PIPES OR CONDUITS MAY PENETRATE THE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRESTOPPED.
3. OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES OR 100 SQUARE FEET OF WALL OF PARTITIONS. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

F. **AESTHETIC CRITERIA NOTES:**

1. WHERE BENDING MULTIPLE CONDUITS ALONG A COMMON PATH, FIELD BEND THE CONDUITS AROUND A COMMON CENTER POINT FOR ALL CONDUITS SO THAT THE SEPARATION BETWEEN CONDUITS REMAINS CONSTANT THROUGH ENTIRE LENGTH OF BEND.
2. CONDUIT FITTING SHALL BE ALIGNED AND PERPENDICULAR TO THE DIRECTION OF THE RACEWAYS. FITTINGS SHALL HAVE SET SCREWS LOCATED ON TOP OF RACEWAYS AND NOT VISIBLE FROM THE FLOOR.
3. ALL EXPOSED CONDUIT, RACEWAYS AND BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT BUILDING ELEMENTS AND FASTENED NEATLY AND CONSISTENTLY. IN PUBLIC AREAS, GROUP RACEWAYS IN MINIMUM GROUPS OF THREE RACEWAYS ON A COMMON SUPPORT SYSTEM.
4. MANUFACTURERS LABELS SHALL BE TURNED AWAY FROM PUBLIC VIEW. NO CONSTRUCTION ANNOTATIONS SHALL BE VISIBLE IN AREAS EXPOSED TO PUBLIC VIEW.
5. ALL NEW DEVICES, OUTLETS, SWITCHES, CONTROLS, ETC. SHALL BE INSTALLED WITH CONCERN FOR ALIGNMENT WITH WORK OF OTHER TRADES. PROVIDE VERTICAL AND HORIZONTAL ALIGNMENT WITH EQUAL SPACING BETWEEN CENTER LINES. IF DOCUMENTS DO NOT INDICATE ALIGNMENT AND/OR SPACING CONSULT WITH ARCHITECT PRIOR ROUGH IN.
6. PAINT ALL EXPOSED FIXTURES, CONDUIT FITTINGS, ETC. UNLESS OTHERWISE NOTED.
7. ALL WALLS, COLUMNS AND CEILINGS WITHIN PUBLICLY ACCESSIBLE SPACES, ESPECIALLY THOSE WITH EXPOSED STRUCTURE AND WITHOUT SUSPENDED CEILINGS, NO CONDUIT, BOXES OR WIRING SHALL BE EXPOSED TO WIRING SHALL BE EXPOSED TO VIEW UNLESS SPECIFICLY NOTED ON ARCHITECTURAL DRAWINGS. ROUTE ALL CONDUIT AND WIRING THROUGH BEAMS AND ABOVE CEILING PANELS. SEE STRUCTURAL DRAWINGS FOR BEAM PENETRATION ALLOWANCES.

G. **ACOUSTICAL NOTES:**

1. ALL PENETRATIONS INTO SOUND RATED PARTITIONS OR FLOOR-CEILING ASSEMBLIES WILL BE SEALED WITH APPROVED PERMANENT NON-HARDENING RESILIENT ACOUSTIC SEALANT AND FIRE CAULK (WHERE APPLIES).
2. WHERE INDICATED RIGID CONDUIT LOCATED IN SOUND ASSEMBLIES WILL BE ISOLATED FROM THE BUILDING CONSTRUCTION BY MEANS OF RESILIENT SLEEVES, MOUNTS OR MINIMUM 1/4" THICK APPROVED RESILIENT MATERIAL.
3. ELECTRICAL OUTLETS BOXES IN OPPOSITE FACES OF SEPARATION WALLS WILL BE SEPARATED HORIZONTALLY BY AT LEAST ONE STUD BAY AND NOTE THAT BACK AND SIDES OF BOXES WILL BE SEALED WITH PUTTY PADS AND BACKED BY MINIMUM OF 2" THICK MATERIAL FIBER INSULATION. (TV, TELEPHONE AND INTERCOM OUTLETS MUST BE INSTALLED IN BOXES ACCORDINGLY. SEAL RECESSED BACK BOXES WITH ACOUSTICAL SEALANT AT GYPSUM BOARD FACE.
4. NO ELECTRICAL TRANSFORMER OR RELAYS SHALL BE INSTALLED ON OR IN SOUND RATED PARTITIONS.

H. **COORDINATION**

1. THERE IS NO ASSURANCE THAT THE LOCATION OF SUBSTRUCTURES SHOWN ON THIS DRAWING ARE ACCURATE, OR THAT ALL EXISTING SUBSTRUCTURES ARE SHOWN ON THIS DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SUBSTRUCTURES WHETHER SHOWN OR NOT. ANY DAMAGE TO THE EXISTING SUBSTRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITIES, STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
3. COORDINATE WITH LANDSCAPE CONSULTANT FOR TREE LOCATIONS. DO NOT DISTURB ROOT BALL.
4. CONTRACTOR SHALL PROVIDE 1/4" SCALE DRAWING FOR ALL ELECTRICAL ROOMS, CLOSETS AND EQUIPMENT SPACES DEMONSTRATING THAT INSTALLATION HAS BEEN COORDINATED WITH WORK OF OTHER TRADES. USE ACTUAL DIMENSIONS FROM APPROVED EQUIPMENT SUBMITTALS TO COORDINATE LAYOUT AND INSTALLATION OF ELECTRICAL EQUIPMENT, DEVICES AND COMPONENTS WITH OTHER CONSTRUCTION INCLUDING HOUSEKEEPING PADS, CONDUIT, PIPING, EQUIPMENT, AND ADJACENT SURFACES. MAINTAIN MAXIMUM MOUNTING HEIGHTS FOR OPERABLE DEVICES AND REQUIRED WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.

I. **STRUCTURAL NOTES:**

1. DO NOT EMBED CONDUITS OR SLEEVES IN STRUCTURAL CONCRETE, INCLUDING CONCRETE ON METAL DECK WITHOUT SPECIFIC ACCEPTANCE FROM ARCHITECT. LOCATE ELECTRICAL CONDUIT MINIMUM OF 3" APART AND WITHIN MIDDLE 1/3 OF MEMBER.
2. CONDUITS MUST BE SUPPORTED ON APPROVED CHAIRS AFFIXED TO THE SLAB FORMWORK, AND TIGHTLY SECURED TO ADJACENT REINFORCING STEEL WHERE FEASIBLE SO AS TO ASSURE NO MOVEMENT DURING CONCRETE PLACEMENT.
3. MULTIPLE LAYERS OF CONDUIT CROSSING EACH OTHER WITHIN THE 1/3" PLACEMENT ZONE IS ACCEPTABLE; HOWEVER, NO LESS THAN 3/4" VERTICAL CLEARANCE BETWEEN STACKED CONDUITS IS ALLOWED, AND NO MORE THAN THREE LAYERS OF CONDUIT WITHIN THE 1/3" PLACEMENT ZONE ARE ALLOWED AT ANY ONE LOCATION.
4. MULTIPLE CONDUITS PLACED SIDE-BY-SIDE MUST MAINTAIN AT LEAST 3 CONDUIT DIAMETER HORIZONTAL CLEARANCE, BASED ON THE LARGER OF ADJACENT CONDUITS.
5. CONDUIT "BANKS" CONSISTING OF 4 OR MORE CONDUITS MUST BE PLACED IN PLAN VIEW WITHIN THE MIDDLE THIRD OF THE DISTANCE BETWEEN COLUMNS OR BETWEEN COLUMNS AND ENDS/FACES OF WALLS. NO SINGLE "BANK" OF CONDUITS SHALL EXCEED 25 CONDUITS OR A TOTAL WIDTH OF 5 FEET, INCLUDING REQUIRED SPACING BETWEEN CONDUITS.
6. JUNCTION BOXES MAY NOT BE PLACED CLOSER TO EACH OTHER THAN THE LARGEST PLAN DIMENSION OF THE BOX IN EITHER DIRECTION. NO MORE THAN TWO JUNCTION BOXES MAY BE PLACED ADJACENT TO EACH OTHER.
7. THE CONTRACTOR MUST SUBMIT FOR APPROVAL A DETAILED LAYOUT OF CONDUIT BANKS. THE LOCATIONS OF INDIVIDUAL CONDUIT RUNS OR RUNS OF UP TO THREE ADJACENT CONDUITS DO NOT NEED TO BE PRE-APPROVED, BUT MUST FOLLOW ALL APPLICABLE REQUIREMENTS SET FORTH IN THE DOCUMENTS.
8. NO CONCRETE FLOOR SLABS ARE ALLOWED TO BE POURED WITHOUT APPROVAL OF THE CONDUIT LAYOUT PLAN.
9. EXCEPTIONS TO THE ABOVE RULES WILL BE EVALUATED BY THE STRUCTURAL ON A CASE-BY-CASE BASIS.

J. **DEMOLITION:**

1. EXISTING CONDITIONS INDICATED ON DOCUMENTS ARE BASED UPON REVIEW OF AVAILABLE RECORD DOCUMENTS AND VISUAL FIELD SURVEY AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
2. SURVEY EXISTING CONDITIONS, INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND REINSTALLED.
3. RECORD EXISTING CONDITION BY USE OF MEASURED DRAWINGS, PRECONSTRUCTION PHOTOGRAPHS, AND/OR VIDEO TAPES. RECORD CONDITION OF AREAS ADJACENT TO DEMOLITION IN ADDITION TO AREAS TO BE DEMOLISHED.
4. WHERE UTILITIES, FEEDERS, RACEWAYS PASS THROUGH AREAS OR WALLS TO BE DEMOLISHED, DETERMINE SOURCE, FUNCTION AND LOAD PRIOR TO DEMOLITION. IF THESE ARE SERVING AREAS OR LOADS THAT ARE TO REMAIN, PROVIDE PROVISIONS FOR RELOCATING PRIOR TO DEMOLITION.
5. AREAS OR LOADS THAT ARE TO REMAIN, PROVIDE PROVISIONS FOR RELOCATING PRIOR TO DEMOLITION. SOURCE OR FIRST UP STREAM DEVICE TO REMAIN IN SERVICE.
6. REMOVE ALL ABANDONED RACEWAY, CABLES AND EQUIPMENT FROM AREAS TO BE DEMOLISHED/REMODELED UNLESS NOTED OTHERWISE. DEMOLITION TO INCLUDE POWER, LIGHTING FIRE ALARM DEVICES AND RACEWAYS, COMMUNICATION DEVICES AND RACEWAYS, LOW VOLTAGE AND CONTROL SYSTEMS.
7. WHERE RACEWAYS ENTER OR EXIT SLABS OR PARTITIONS TO REMAIN, CUT RACEWAYS FLUSH WITH FINISH SURFACE, REMOVE CONDUCTORS AND PREPARE FOR REFINISH OF AREA.
8. VERIFY THAT ALL UTILITIES HAVE BEEN DISCONNECTED AND MADE SAFE PRIOR TO COMMENCING DEMOLITION.

DELEGATED DESIGN

A. DELEGATED DESIGN ELEMENTS ARE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ENGINEERED DOCUMENTATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

B. REFER TO SPECIFICATION FOR DELEGATED DESIGN DOCUMENTATION AND SUBMISSION REQUIREMENTS.

C. ALL DELEGATED DESIGN ELEMENTS SHALL BE PREPARED UNDER THE DIRECTION OF AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA.

D. DELEGATED DESIGN ELEMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING, REFER TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND SUBMISSION REQUIREMENTS:

1. DESIGN SUPPORTS FOR MULTIPLE RACEWAY SYSTEMS CAPABLE OF SUPPORTING THE COMBINED WEIGHT OF ALL RACEWAYS AND SUPPORT COMPOUNDS.
2. DESIGN HOUSEKEEPING PADS AND SUPPORT OF EQUIPMENT ATTACHED TO PAD TO WITHSTAND SEISMIC FORCES.
3. DESIGN SUPPORTS FOR WALL MOUNTED ELECTRICAL EQUIPMENT.
4. DESIGN SUPPORTS FOR CEILING MOUNTED ELECTRICAL EQUIPMENT.
5. PROVIDE SHORT CIRCUIT STUDY USING ACTUAL EQUIPMENT FEEDER LENGTHS AND FEEDER SIZES.
6. PROVIDE ELECTRICAL COORDINATION STUDY USING ACTUAL EQUIPMENT PURCHASED FOR THIS PROJECT.
7. PROVIDE ARC FLASH STUDY USING ACTUAL EQUIPMENT, FEEDER LENGTHS AND SIZES.
8. LIFE SAFETY FIRE ALARM SYSTEM. DOCUMENTS SHALL INCLUDE THE FOLLOWING INFORMATION:
   1. COMPLETED PLANS SHOWING CONNECTIONS REQUIREMENTS, RACEWAYS AND CONDUCTORS BETWEEN FIRE ALARM DEVICES, LIGHTING FIXTURES, SPRINKLER SYSTEM, SPEAKERS AND OTHER CEILING MOUNTED DEVICES AND EQUIPMENT. INCLUDE FLOOR PLANS INDICATING CONNECTIONS FOR ALL WALL MOUNTED INITIATION AND ANNUNCIATION DEVICES, DUCT DETECTORS, FIRE SMOKE DAMPERS, DOOR HOLD OPEN DEVICES, FIRE SEPARATION EQUIPMENT SUCH AS AUTOMATIC ROLL DOWN OR ACCORDION DOORS AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
   2. DRAWINGS SHALL INCLUDE PANEL AND CIRCUIT INFORMATION WHERE 120 VOLT POWER IS REQUIRED.
   3. COMPLETED RISER DIAGRAMS FOR COMPLETE SYSTEM.
   4. COMPLETED INSTALLATION AND WIRING DIAGRAMS FOR ALL DEVICES AND CABINETS.
   5. PENETRATION DETAILS AND LOCATIONS.
9. CATHODIC PROTECTIONS FOR METALLIC RACEWAYS, RACEWAY FITTINGS, SUPPORTS AND BOXES.

E. INFORMATION COORDINATION DOCUMENTS REQUIRED TO DEMONSTRATE COORDINATION BETWEEN ELECTRICAL AND WORK OF OTHER TRADES.

1. 1/4" SCALE EQUIPMENT LAYOUT DRAWINGS FOR ALL ELECTRICAL SPACES. DRAWING SHALL INCLUDE THE FOLLOWING INFORMATION: FLOOR PLANS LOCATING ALL EQUIPMENT, HOUSEKEEPING PADS, NEC REQUIRED WORKING SPACE AND MANUFACTURERS RECOMMENDED WORKING AND OPERATION SPACE REQUIREMENTS.
2. ARCHITECTURAL, STRUCTURAL ELEMENTS AND WORK OF OTHER TRADES THAT ARE LOCATED WITHIN THE ELECTRICAL SPACES.
3. WALL ELEVATIONS OF ALL WALL THAT INCLUDE ELECTRICAL EQUIPMENT AND ATTACHMENT RECOMMENDATION FOR MOUNTING EQUIPMENT TO WALLS.

F. DESIGN FOOTINGS FOR POLE MOUNTED FIXTURES CONSIDERING FORCES IMPOSED ON THE POLE AND FIXTURES FROM WIND, ICE OR SEISMIC FORCES.

P1

APPLICABLE CODES:

1. 2017 NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE 2019 CALIFORNIA ELECTRICAL CODE (CEC)
2. 2019 CALIFORNIA BUILDING CODE (CBC)
3. 2019 CALIFORNIA ENERGY CODE (CENC)
4. CITY OF OAKLAND MUNICIPAL CODE AND ADOPTED ORDINANCES

SHEET LIST - ELECTRICAL

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Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title

ELECTRICAL GENERAL NOTES AND SHEET LIST

Drawing No.

E0.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:39:41 PM

EXISTING / DEMOLITION

- EXISTING EQUIPMENT / RACEWAYS TO REMAIN
- EXISTING EQUIPMENT / RACEWAYS TO BE REMOVED
- NEW EQUIPMENT / RACEWAYS
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW EQUIPMENT, LIGHTING FIXTURE OR DEVICE

SINGLE LINE DIAGRAM

- TRANSFORMER , AS NOTED ON SINGLE LINE DIAGRAM
- VFD — VARIABLE FREQUENCY DRIVE
- CIRCUIT BREAKER, 3 POLE UNLESS NOTED OTHERWISE
- MOTOR STARTER WITH OVERCURRENT PROTECTION, 3 POLE UNLESS NOTED OTHERWISE
- MOTOR STARTER WITH FUSED AND DISCONNECT SWITCH, 3 POLE UNLESS NOTED OTHERWISE
- G — GROUND FAULT RELAY
- S — SHUNT TRIP RELAY
- DRAW-OUT CIRCUIT BREAKER
- NON-FUSED DISCONNECT SWITCH, 30 AMP, 3P UNLESS NOTED OTHERWISE
- FUSED DISCONNECT SWITCH, 3 POLE UNLESS NOTED OTHERWISE
- CIRCUIT BREAKER BUS TAP
- M — DEMAND TYPE KWH METER
- M — DEMAND TYPE KWH METER WITH ENCLOSURE
- M — PROVISION FOR UTILITY COMPANY KWH METER
- K — KIRK-KEY INTERLOCK BETWEEN DEVICES
- CURRENT TRANSFORMER (CT)
- AM — AMMETER
- IQ — ELECTRONIC METER
- SEPARABLE CONNECTOR(S)
- GROUND
- P1 — PORTABLE GENERATOR CONNECTION CAM LOCK MALE RECEPTACLE

GROUNDING SYSTEM

FLOOR	WALL	
		GROUND PLATE, FLAT TAPPED HOLE TO BE FLUSH WITH FURNISHED SURFACE. CADWELD B164-2Q OR EQUIVALENT
G	G	GROUND BUS
TG	TG	TECHNICAL GROUND BUS
		GROUND ROD
		GROUND ROD TEST WELL
		EXOTHERMIC GROUND CONNECTION
	G	GROUND WIRE

RECEPTACLES / POWER

POKE THRU	FLOOR	WALL	CEILING	
		(18)		MULTI-OUTLET RACEWAY WITH PREWIRED RECEPTACLES MOUNTED 12" ON CENTER UNLESS OTHERWISE NOTED. NUMBER IN (X) PARENTHESIS INDICATES DISTANCE BETWEEN DEVICES. WHERE MULTIPLE CIRCUITS ARE INDICATED CIRCUITS ALTERNATE ALONG ENTIRE LENGTH OF RACEWAY
				SIMPLEX RECEPTACLES
				DUPLEX RECEPTACLES
				QUADRUPLEX RECEPTACLES
	X	X	X	SPECIAL RECEPTACLES (DUPLEX & QUADRUPLEX), REFER TO SPECIAL RECEPTACLE SCHEDULE, THIS SHEET
	X	X	X	
				GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES
				ABOVE COUNTER RECEPTACLES. INSTALL ABOVE COUNTER OR DEFINED HEIGHT
				HALF CONTROLLED DUPLEX
				HALF CONTROLLED QUADRUPLEX
				SWITCHED RECEPTACLES
				CLOCK RECEPTACLES
	J	J	J	JUNCTION BOX 4" SQUARE MINIMUM FOR WALL OR CEILING MOUNTED
		J	J	JUNCTION BOX SIZE AS REQUIRED FOR NUMBER OF WIRES OR RACEWAYS
	P	P	P	SYSTEM FURNITURE POWER FEED, REFER TO DETAIL FOR RACEWAY AND BOX REQUIREMENTS

SWITCHING

WALL	CEILING	
		MANUAL MOTOR STARTER WITH THERMAL OVERLOAD NUMBER OF POLES AS REQUIRED
		SWITCH, SUBSCRIPT INDICATES: X = NONE - SINGLE POLE X = 3 - THREE WAY X = A,B,C - OUTLET CONTROLLED X = 2 - DOUBLE POLE X = KP - KEY OPERATED WITH PILOT LIGHT X = P - PILOT LIGHT X = R - MOMENTARY RELAY ON/OFF
		2-SINGLE POLE SWITCHES, UNDER COMMON PLATE, + 42" UON — P1
		3-SINGLE POLE SWITCHES, UNDER COMMON PLATE, + 42" UON
		LOW VOLTAGE LIGHTING CONTROL. NUMBER IN ELONGATED HEXAGON INDICATES CONTROL IDENTIFICATION. REFER TO SEQUENCE OF OPERATIONS AND LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION
		LOW VOLTAGE LIGHTING CONTROL SUBSCRIPT INDICATES: X = D - DIMMER SWITCH X = S - SENSOR SWITCH X = T - TIMER SWITCH X = M - LOW VOLTAGE MASTER CONTROL SWITCH
		DIMMER WITH INTEGRAL SWITCH, +42" UON. '600' INDICATES RATING IN WATTS
		ROOM TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED
		ROOM TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED
		CORRIDOR TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED
		SENSOR TYPE SUBSCRIPT INDICATES: X = DT - DUAL TECHNOLOGY X = H - HALLWAY X = HB - HIGH BAY X = IR - PASSIVE INFRARED X = US - ULTRASONIC
		PUSH-BUTTON STATION. +42" UON
		PHOTOSENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION
		PHOTOSENSOR - CEILING MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION
		PHOTOSENSOR - CEILING MOUNT WITH 360 VIEW
		LIGHTING CONTROL UNIT.
		EMERGENCY LIGHTING CONTROL UNIT.

LIGHTING

WALL	CEILING	
		RECESSED MOUNTED TROFFER
		SURFACE MOUNTED TROFFER
		SUSPENDED OR PENDANT MOUNTED LUMINAIRE
		STRIP OR TRACK LIGHT
		SURFACE MOUNTED DOWNLIGHT
		RECESSED MOUNTED DOWNLIGHT
		PENDANT MOUNTED DOWNLIGHT
		WALL MOUNTED LUMINAIRE
		DIRECTIONAL LUMINAIRE
		POLE MOUNT FIXTURES (1, 2, 3, 4 HEADS)
EXIT	EXIT	EXIT SIGN; SHADED PORTION INDICATES ILLUMINATED FACE. DIRECTIONAL ARROWS AS INDICATED ON PLANS.
TRACK		
LED		
MULTIPLES		
UNDERWATER		

NOTES:

A. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING FIXTURE TYPE AND MOUNTING CONDITIONS REGARDLESS OF SYMBOL USED ON PLANS.
B. REFER TO FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION, MOUNTING AND LAMP INFORMATION. SHADED FIXTURE SYMBOLS INDICATE FIXTURE IS CONNECTED TO THE LIFE SAFETY SYSTEM OR HAS SECONDARY POWER SOURCE.

EXAMPLES: NORMAL — EMERGENCY — NORMAL — EMERGENCY

LUMINAIRE NOMENCLATURE: A 3,a,z1
"A" DENOTES FIXTURE TYPE
"3" DENOTES CIRCUIT NUMBER
"a" DENOTES SWITCH ZONE
"z1" DENOTES DAYLIGHT ZONE
"r1" DENOTES SITE RELAY ZONE

NOTE: ALL RECEPTACLE OUTLETS ON WALLS ARE MOUNTED AT 18" AFF, UON. GENERAL USE ELECTRICAL RECEPTACLE, SWITCH AND CONTROL OUTLETS SHALL BE LOCATED NO MORE THAN 48 INCHES TO THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES TO THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISHED FLOOR PER CBC 11B-308.1 & 11B-308.2 COORDINATE WITH ARCHITECTURAL ELEVATIONS

LETTER	RATING	NEMA	SPECIAL RECEPTACLE DESCRIPTION SCHEDULE NOTE: NUMBER OF WIRES INCLUDE GROUND
A	125V, 1Ø, 30A, 2P, 3W	5-30R	WITH 5-30P PLUG
B	125V, 1Ø, 50A, 2P, 3W	5-50R	WITH 5-50P PLUG
D	125/250V, 1Ø, 20A, 3P, 4W	14-20R	WITH 14-20P PLUG
F	125/250V, 1Ø, 30A, 3P, 4W	14-30R	WITH 14-30P PLUG
J	250V, 1Ø, 20A, 2P, 3W	6-20R	WITH 6-20P PLUG
K	250V, 1Ø, 30A, 2P, 3W	6-30R	WITH 6-30P PLUG
L	-	-	'L' INDICATES ASSOCIATED RECEPTACLE IS LOCKING TYPE, PROVIDE MATCHING PLUG FOR EACH RECEPTACLE
M	250V, 1Ø, 50A, 2P, 3W	6-50R	WITH 6-50P PLUG
N	250V, 3Ø, 20A, 3P, 4W	15-20R	WITH 15-20P PLUG
P	250V, 3Ø, 30A, 3P, 4W	15-30R	WITH 15-30P PLUG
R	250V, 3Ø, 50A, 3P, 4W	15-50R	WITH 15-50P PLUG
S	480V, 3Ø, 30A, 3P, 4W	L16-30R	WITH L12-30P PLUG
T	125V, 1Ø, 20A, 2P, 3W	5-20R	ISOLATED GROUND WITH INTEGRAL TRANSIENT SUPPRESSOR AND DEDICATED GREEN/YELLOW CONDUCTOR BACK TO GROUND BUS AT PANEL
X	125V, 1Ø, 20A, 2P, 3W	5-20R	DEDICATED CIRCUIT
Z	480V, 3Ø, 20A, 3P, 4W	L16-20R	WITH L16-20R PLUG

RACEWAYS AND WIRING

FLOOR	WALL	CEILING	
			CONDUIT CONCEALED IN CEILING OR WALL SPACE
			CONDUIT RUN EXPOSED
			CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SPACE
			EXISTING CONDUIT TO REMAIN
			CONDUIT RISING UP FROM RUN
			CONDUIT DROPPING DOWN FROM RUN
A-1	A-1	A-1	HOMERUN TO PANELBOARD, CABINET OR TERMINAL BACKBOARD AS INDICATED
(MS-01)	(MS-01)	(MS-01)	HOMERUN TO SWITCHBOARD OR MCC AS INDICATED. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND WIRE SIZES
<RA-1>	<RA-1>	<RA-1>	HOMERUN TO PANEL VIA INDICATED LIGHTING CONTROL RELAY CABINET. REFER TO INDICATED RELAY CABINET SCHEDULE FOR ADDITIONAL INFORMATION AND CONTROL REQUIREMENTS

GENERAL ELECTRICAL SYMBOLS

RECESSED	SURFACE	
		DISCONNECT SWITCH, 30 AMP MINIMUM UNLESS NOTED OTHERWISE
		FUSED DISCONNECT SWITCH, 30 AMP MINIMUM UNLESS NOTED OTHERWISE
		COMBINATION DISCONNECT SWITCH MOTOR STARTED
	5	MOTOR, 5 HP INDICATED
	T	TRANSFORMER
		RELAY OR EQUIPMENT CABINET AS INDICATED ON PLAN
		LIGHTING OR POWER PANEL BOARD

- FREE STANDING SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
- FIRE TREATED PLYWOOD BACKBOARD 3/4"X96" HIGH X LENGTH AS INDICATED
- EEE — ELECTRICAL EQUIPMENT DESIGNATION DESIGNED "EQ01"
- 1 — REFERENCE TO NOTE "1" ON SAME SHEET
- FA — LIGHTING FIXTURE DESIGNATION FA = FIXTURE TYPE
- P 1 — MECHANICAL EQUIPMENT DESIGNATION "P-1" INDICATED
- X33 — EQUIPMENT NAME OR NUMBER
- +4'-6" — MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR EQUIPMENT
- MH=4'-6" — MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM OF OUTLET OR EQUIPMENT
- 1 / E-6 — DETAIL REFERENCE NUMBER "1" ON DRAWING "E-6"
- A / E-6 — SECTION OR ELEVATION REFERENCE LETTER "A" ON DRAWING "E-6"
- A-1,3,5 — INDICATES HOMERUN WITH THREE CIRCUITS AND A SEPARATE NEUTRALS

NUMBER OF CONDUCTORS AND CONDUIT SIZE

- 3#12,3/4"C
- 4#12,3/4"C
- 5#12,3/4"C
- 6#12,3/4"C
- 7#12,3/4"C
- 8#12,3/4"C
- 9#12,3/4"C
- 10 3#10,3/4"C
- 10 4#10,3/4"C
- 10 5#10,3/4"C
- 10 6#10,3/4"C
- 10 7#10,3/4"C
- 10 8#10,1"C
- 10 9#10,3/4"C
- 8 2#8,1#10G,3/4"C
- 8 3#8,1#10G,3/4"C
- 8 4#8,1#10G,3/4"C
- 8 5#8,1#10G,1"C
- 8 6#8,1#10G,1"C
- 8 7#8,1#10G,1"C
- 8 8#8,1#10G,1½"C
- 6 2#6,1#10G,3/4"C
- 6 3#6,1#10G,1"C
- 6 4#6,1#10G,1"C
- 6 5#6,1#10G,1"C
- 6 6#6,1#10G,1½"C
- 6 7#6,1#10G,1½"C
- 6 8#6,1#10G,1½"C

CONDUCTOR COUNT INCLUDES GROUNDING AND NEUTRAL CONDUCTORS THAT ARE NOT INDICATED IN THE HATCH COUNT. CONDUIT SIZES ARE BASED UPON COPPER CONDUCTORS MINIMUM AND MAY BE INCREASED AT CONTRACTORS OPTION FOR LONG OR DIFFICULT RUNS.

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERE	KV	KILOVOLT
AC	ALTERNATING CURRENT	KVA	KILOVOLT-AMPERE
AF	AMPERE FRAME, AMPERE FUSE	KW	KILOWATT
AFC	ABOVE FINISHED CEILING	KWH	KILOWATT-HOUR
AFF	ABOVE FINISHED FLOOR	KVAR	KILOVAR
AFG	ABOVE FINISHED GRADE		
AIC	AMPERE INTERRUPTING CAPACITY	LCL	LONG CONTINUOUS LOAD
ANN	ANNUNCIATOR	LF	LINEAR FOOT
AS	AMPERE SWITCH	LRA	LOCKED ROTOR AMP
AT	AMPERE TRIP	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
AWG	AMERICAN WIRE GAUGE		
		M	MAGNETIC STARTER COIL
BATT	BATTERY	MAX	MAXIMUM
BC	BARE COPPER	MC	METAL CLAD CABLE
BCW	BARE COPPER WIRE	MCB	MAIN CIRCUIT BREAKER
BKBD	BACKBOARD	MCC	MOTOR CONTROL CENTER
BKR	BREAKER	MCM	THOUSAND CIRCULAR MILS
BLDG	BUILDING	MDF	MAIN DISTRIBUTION FRAME
		MDP	MAIN DISTRIBUTION PANEL
C	CONDUIT	MFR	MANUFACTURER
CATV	CABLE TELEVISION	MH	METAL HALIDE
CB	CIRCUIT BREAKER	MI	MINERAL INSULATED
CEC	CALIFORNIA ELECTRICAL CODE	MIN	MINIMUM
CKT	CIRCUIT	MLO	MAIN LUGS ONLY
CLG	CEILING	MTD	MOUNTED
CO	CONDUIT ONLY	MTR	MOTOR
COM	COMMON	MTS	MANUAL TRANSFER SWITCH
COMM	COMMUNICATIONS		
CONN	CONNECT	(N)	NEW
CONT	CONTINUE	N	NEUTRAL
CT	CURRENT TRANSFORMER	NB	NEUTRAL BUS
CU	COPPER	NEC	NATIONAL ELECTRIC CODE
		NF	NON-FUSED
(D)	DEMOLISH	NIC	NOT IN CONTRACT
DB	DIRECT BURIED	NO	NORMALLY OPEN
DEF	DUAL ELEMENT FUSE	NC	NORMALLY CLOSED
DIA	DIAMETER	NTS	NOT TO SCALE
DIM	DIMENSION		
DISC	DISCONNECT	P	POLE(S)
DIST	DISTRIBUTION	PF	POWER FACTOR
DN	DOWN	PH/Ø	PHASE
DP	DISTRIBUTION PANEL	PNL	PANEL
DPDT	DOUBLE-POLE DOUBLE-THROW	PRI	PRIMARY
DWG	DRAWING	PT	POTENTIAL TRANSFORMER
		PV	PHOTOVOLTAIC
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
EGC	EQUIPMENT GROUND CONDUCTOR	PWR	POWER
ELEC	ELECTRICAL		
EM, EMER	EMERGENCY	QTY	QUANTITY
EMT	ELECTRICAL METALLIC TUBING		
ENCL	ENCLOSURE	(R)	EXISTING TO BE RELOCATED
EPO	EMERGENCY POWER OFF	RECP	RECEPTACLE
EQUIP	EQUIPMENT	RGS	RIGID GALVANIZED STEEL CONDUIT
(F)	FUTURE	RM, RMS	ROOM, ROOMS
F	FUSE(D)	RT	RADIOTOUCH SYSTEM
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL	SCA	SHORT CIRCUIT AMPS
FATC	FIRE ALARM TERMINAL CABINET	SEC	SECONDARY
FLA	FULL LOAD AMPERES	SFD	SMOKE FIRE DAMPER
FLEX	FLEXIBLE	SPKR	SPEAKER
FLR	FLOOR	SQ FT	SQUARE FEET
FT	FOOT, FEET	SUSP	SUSPEND(ED)
		SW	SWITCH
G, GND	GROUND	SWBD	SWITCHBOARD
GALV	GALVANIZE(D)	SWGR	SWITCHGEAR
GEC	GROUNDING ELECTRODE CONDUCTOR		
GEN	GENERATOR	TC	TIME CLOCK
GFI	GROUND FAULT CIRCUIT INTERRUPTER	TEL	TELEPHONE
		TEMP	TEMPORARY
HID	HIGH INTENSITY DISCHARGE	TTB	TELECOMMUNICATIONS BACKBOARD
HOA	HAND-OFF-AUTOMATIC	TMH	TELECOMMUNICATIONS MANHOLE
HP	HORSEPOWER, HEAT PUMP	TRANSF	TRANSFORMER
HPF	HIGH POWER FACTOR	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	TVSS	TRANSIENT VOLTAGE SUPPRESSION SYSTEM
HV	HIGH VOLTAGE		
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UG	UNDERGROUND
HZ	HERTZ	UON	UNLESS OTHERWISE NOTED
		UNO	UNLESS NOTED OTHERWISE
IC	INTERRUPTING CAPACITY IN AMPS RMS	UPS	UNINTERRUPTIBLE POWER SUPPLY
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IG	ISOLATED GROUND	V	VOLT, VOLTS
IMB	MAX POWER CURRENT	VA	VOLT-AMPERES
IN	INCH, INCHES	VAV	VARIABLE AIR VOLUME
INV	INVERTER	VFD	VARIABLE FREQUENCY DRIVE
ISC	SHORT CIRCUIT CURRENT	VMP	VOLTAGE AT MAXIMUM POWER
		VOC	VOLTAGE OPEN CIRCUIT
J, JB	JUNCTION BOX		
		W	WATT OR WIRE
KAIC	KILOAMPERE INTERRUPTING CAPACITY	WAP	WIRELESS ACCESS POINT
		WP	WEATHER PROOF
KA	THOUSAND AMPERES	WT	WATERTIGHT
KCMIL	THOUSAND CIRCULAR MILS		
		XFMR	TRANSFORMER

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Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
ELECTRICAL LEGEND

Drawing No.
E0.2

Sheet No.

LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:40:10 PM

LUMINAIRES SCHEDULE

LTG - FIXTURE TYPE	LTG - IMAGE	LTG - MANUFACTURER	LTG - MODEL	LTG - DESCRIPTION	LTG - TOTAL FIXTURE LOAD	LTG - CCT	LTG - CRI	LTG - LAMP TYPE	LTG - LUMENS	LTG - VOLTAGE	LTG COMMENTS
AC-1		LUMENPULSE	LUMENFACADE	1' ADJUSTABLE LED LINEAR LIGHT WITH ASSYMETRIC WALL WASHER OPTIC COMPLETE WITH DIMMING POWER SUPPLY AND UNIVERSAL ADJUSTABLE MOUNTING BRACKETS.	9 VA	3500K	90 CRI	LED	3500 LM/4FT	277V	
AC-4		LUMENPULSE	LUMENFACADE	4' ADJUSTABLE LED LINEAR LIGHT WITH ASSYMETRIC WALL WASHER OPTIC COMPLETE WITH DIMMING POWER SUPPLY AN UNIVERSAL ADJUSTABLE MOUNTING BRACKET.	35 VA	3500K	90 CRI	LED	3500 LM/4FT	277V	
CL-2		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	2' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	17 VA	3500K	90 CRI	LED	750LM/FT DIRECT AND 750LM/FT INDIRECT	277V	
CL-4		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	4' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	34 VA	3500K	90 CRI	LED	750LM/FT DIRECT AND 750LM/FT INDIRECT	277V	
CL-6		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	6' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	51 VA	3500K	90 CRI	LED	750LM/FT DIRECT AND 750LM/FT INDIRECT	277V	
CL-8		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	8' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	68 VA	3500K	90 CRI	LED	750LM/FT DIRECT AND 750LM/FT INDIRECT	277V	
CL-10		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	10' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	85 VA	3500K	90 CRI	LED	750LM/FT DIRECT AND 750LM/FT INDIRECT	277V	
CL-12		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	12' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	101 VA	3500K	90 CRI	LED	750LM/FT DIRECT AND 750LM/FT INDIRECT	277V	
CL-14		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	14' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	118 VA	3500K	90 CRI	LED	750LM/FT DIRECT AND 750LM/FT INDIRECT	277V	
CW-8		VODE LIGHTING	WING RAIL WALL ARM	8' WALL MOUNTED LED WALL WASH LIGHT AT WHITEBOARD COMPLETE WITH DIMMING POWER SUPPLY.1' ARM LENGTH.STANDARD OUTPUT.	49 VA	3500K	90 CRI	LED	584LM/FT	24V REMOTE POWER SUPPLY	
CW-11		VODE LIGHTING	WING RAIL WALL ARM	11' WALL MOUNTED LED WALL WASH LIGHT AT WHITEBOARD COMPLETE WITH DIMMING POWER SUPPLY	67 VA	3500K	90 CRI	LED	584LM/FT	24V REMOTE POWER SUPPLY	
CW-13		VODE LIGHTING	WING RAIL WALL ARM	13' WALL MOUNTED LED WALL WASH LIGHT AT WHITEBOARD COMPLETE WITH DIMMING POWER SUPPLY	80 VA	3500K	90 CRI	LED	584LM/FT	24V REMOTE POWER SUPPLY	
CW-16		VODE LIGHTING	WING RAIL WALL ARM	16' WALL MOUNTED LED WALL WASH LIGHT AT WHITEBOARD COMPLETE WITH DIMMING POWER SUPPLY. 1' ARM LENGTH.STANDARD OUTPUT.	98 VA	3500K	90 CRI	LED	584LM/FT	24V REMOTE POWER SUPPLY	
CW-18		VODE LIGHTING	WING RAIL WALL ARM	18' WALL MOUNTED LED WALL WASH LIGHT AT WHITEBOARD COMPLETE WITH DIMMING POWER SUPPLY.1' ARM LENGTH.STANDARD OUTPUT.	110 VA	3500K	90 CRI	LED	584LM/FT	24V REMOTE POWER SUPPLY	
DW-6		PURE EDGE	TRUELINE 1.6" PLATER-IN	6' RECESSED MUD-IN LED LINEAR LIGHT COMPLETE WITH REMOTE DIMMING POWER SUPPLY,	30 VA	3500K	90 CRI	LED	417 LM/ FT	24V REMOTE POWER SUPPLY	5 W PER LINEAR FOOT.
DW-11		PURE EDGE	TRUELINE 1.6" PLATER-IN	11' RECESSED MUD-IN LED LINEAR LIGHT COMPLETE WITH REMOTE DIMMING POWER SUPPLY,	55 VA	3500K	90 CRI	LED	417 LM/ FT	24V REMOTE POWER SUPPLY	5 W PER LINEAR FOOT.
DW-12		PURE EDGE	TRUELINE 1.6" PLATER-IN	12' RECESSED MUD-IN LED LINEAR LIGHT COMPLETE WITH REMOTE DIMMING POWER SUPPLY,	60 VA	3500K	90 CRI	LED	417 LM/ FT	24V REMOTE POWER SUPPLY	5 W PER LINEAR FOOT.
DW-16		PURE EDGE	TRUELINE 1.6" PLATER-IN	16' RECESSED MUD-IN LED LINEAR LIGHT COMPLETE WITH REMOTE DIMMING POWER SUPPLY,	80 VA	3500K	90 CRI	LED	417 LM/ FT	24V REMOTE POWER SUPPLY	5 W PER LINEAR FOOT.
DW-19		PURE EDGE	TRUELINE 1.6" PLATER-IN	19' RECESSED MUD-IN LED LINEAR LIGHT COMPLETE WITH REMOTE DIMMING POWER SUPPLY,	95 VA	3500K	90 CRI	LED	417 LM/ FT	24V REMOTE POWER SUPPLY	5 W PER LINEAR FOOT.
E		LUMENWERX	CUBITO WALL	8' WALL MOUNTE LED LINEAR LIGHT WITH INTEGRAL DRIVER PROVIDE BI-LEVEL OCCUPANCY SENSOR BUILT-IN THE FIXTURE.	40 VA	3500K	80 CRI	LED	900LM/FT	277V	PROVIDE BI-LEVEL OCCUPANCY SENSOR BUILT-IN THE FIXTURE.
EX-1		LITHONIA		FRONT OF HOUSE EXIT SIGN, NUMBER OF FACES PER PLANS			N/A				
EX-2		LITHONIA	LE/ LRE	WEATHER RATED EXIT SIGN.	2 VA		N/A				
FR-01		WE-EF	FLC220 FRAMING PROJECTOR	ADJUSTABLE LED FRAMING PROJECTOR COMPLETE WITH 0-10V DIMMING POWER SUPPLY. INTEGRAL DRIVER.	36 VA	3500K	90 CRI	LED	3470 LM	277V	
L-1		BEGHELLI	BS100 LED	4 FEET LINEAR LED VAPOR TIGHT FIXTURE WITH FIBREGLASS HOUSING AND STAINLESS STEEL LATCHES, WET LOCATION LISTED	60 VA	4000K	80 CRI	LED	5000LM/4FT	277V	FIXTURE LOCATED AT ELEVATOR PIT.
LM-4		LUMENWERX	VIA 2 WALL MOUNTED	4' WALL MOUNTED LED LINEAR LIGHT WITH ASSYMETRIC OPTIC COMPLETE WITH DIMMING POWER SUPPLY.	28 VA	3500K	90 CRI	LED	750 LM/FT	277V	7W PER LINEAR FOOT
LM-12		LUMENWERX	VIA 2 WALL MOUNTED	12' WALL MOUNTED LED LINEAR LIGHT WITH ASSYMETRIC OPTIC COMPLETE WITH DIMMING POWER SUPPLY.	84 VA	3500K	90 CRI	LED	750 LM/FT	277V	7W PER LINEAR FOOT
LR-01		PHILIPS	FLUXSTREAM	4' SUSPENDED LED LINEAR LIGHT AT BACK OF HOUSE.	26 VA	3500K	80 CRI	LED	4000LM/4FT	277V	
MW-6		DIFFUSION LIGHTING	SLC-002S / SL6-IN	6' LED LINEAR LIGHT WITH LOW PROFILE EXTRUSION AND OPAL LENS COMPLETE WITH REMOTE DIMMING POWER SUPPLY. MEDIUM OUTPUT.	27 VA	3500K	90 CRI	LED	400 LM/FT	24V REMOTE POWER SUPPLY	4.5 W PER LINEAR FOOT.
MW-8		DIFFUSION LIGHTING	SLC-002S / SL6-IN	8' LED LINEAR LIGHT WITH LOW PROFILE EXTRUSION AND OPAL LENS COMPLETE WITH REMOTE DIMMING POWER SUPPLY. MEDIUM OUTPUT.	36 VA	3500K	90 CRI	LED	400 LM/FT	24V REMOTE POWER SUPPLY	4.5 W PER LINEAR FOOT.
MW-12		DIFFUSION LIGHTING	SLC-002S / SL6-IN	12' LED LINEAR LIGHT WITH LOW PROFILE EXTRUSION AND OPAL LENS COMPLETE WITH REMOTE DIMMING POWER SUPPLY. MEDIUM OUTPUT.	54 VA	3500K	90 CRI	LED	400 LM/FT	24V REMOTE POWER SUPPLY	4.5 W PER LINEAR FOOT.

LTG - FIXTURE TYPE	LTG - IMAGE	LTG - MANUFACTURER	LTG - MODEL	LTG - DESCRIPTION	LTG - TOTAL FIXTURE LOAD	LTG - CCT	LTG - CRI	LTG - LAMP TYPE	LTG - LUMENS	LTG - VOLTAGE	LTG COMMENTS
PL-01		LUMEC	RFM COBRA HEAD	CITY OF OAKLAND 25' ROUND TAPERED POLE COMPLETE WITH LED COBRA HEAD POST TOP LIGHT TYPE 4 DISTRIBUTION. NEW POLE AND LUMINAIRE COLOR TO MATCH WITH EXISTING.COMPLETE WITH OCCUPANCY SENSOR.	150 VA	3500K	80 CRI	LED	12 000 LM	277V	
PL-02		LUMEC	L80 POST TOP AND CITY OF OAKLAND POLE.	CITY OF OAKLAND 14' FLUTED ORNEMENTAL POLE COMPLETE WITH MERRIWEATHER LED POST TOP LIGHT ASSYMETRIC TYPE III DISTRIBUTION. NEW POLE AND LUMINAIRE COLOR TO MATCH WITH EXISTING COMPLETE WITH OCCUPANCY SENSOR.	100 VA	3500K	80 CRI	LED	6500 LM	277V	COMPLETE WITH OCCUPANCY SENSOR.
PR-01		ERCO	ECLIPSE ZOOM	AJUSTABLE ZOOM FOCUS OPTIC LED PROJECTOR HEAD ON TRACK WITH ON BOARD DIMMING.	19 VA	4000K	90 CRI	LED	1315 LM	120V	
PT-01		LUMEC	L80 POST TOP	CITY OF OAKLAND MERRIWEATHER LED POST TOP LIGHT ASSYMETRIC TYPE III DISTRIBUTION ON EXISTING 14'CITY OF OAKLAND POLE. LUMINAIRE TO MATCH WITH EXISTING.COMPLETE WITH OCCUPANCY SENSOR.	70 VA	3500K	80 CRI	LED	6500 LM	277V	COMPLETE WITH OCCUPANCY SENSOR.
PT-02		LUMEC AND VANDAL SHIELDS.COM	L80 POST TOP AND VANDAL SHIELD	CITY OF OAKLAND MERRIWEATHER LED POST TOP LIGHT ASSYMETRIC TRYPE III DISTRIBUTION WITH VENDAL SHIELD ON EXISTING 14'CITY OF OAKLAND POLE. LUMINAIRE TO MATCH WITH EXISTING. COMPLETE WITH OCCUPANCY SENSOR	70 VA	3500K	80 CRI	LED	6500 LM	277V	COMPLETE WITH VANDAL SHIELD. REFER TO LIGHTING SPECIFICATION SHEET.COMPLETE WITH OCCUPANCY SENSOR.
RC-01		COOPER	FAIL SAFE ENW	RECESSED LED 2X2 FAIL-SAFE, WIPE DOWN TROFFER LIGHT COMPLETE WITH DIMMING POWER SUPPLY	28 VA	3500K	80 CRI	LED	3400 LM	277V	
RC-02		FLUXWERX	LOOP RECESSED 1X2 (LR112)	RECESSED T-BAR 1X2 TROFFER LIGHT COMPLETE WITH DIMMING POWER SUPPLY.	19 VA	3500K	90 CRI	LED	2450LM	277V	
RC-03		FLUXWERX	PORTAL PENDANT 9"	9" DIAM. SUSPENED CIRCULAR LED LIGHT WITH OPAL LENS COMLETE WITH DIMMING POWER SUPPLY.45 DEG OPTIC. INTEGRAL DRIVER.	21 VA	3500K	90 CRI	LED	3250 LM	277V	CUSTOM RAL FINISH TO BE CONFIRMED BY ARCHITECT. BOTTOM OF LIGHTS 4" ABOVE CEILING PANELS FOR MAINTENANCE.
RC-04		FLUXWERX	PORTAL PENDANT 5.5"	5" DIAM. SUSPENDED CIRCULAR LED LIGHT WITH OPAL LENS COMLETE WITH DIMMING POWER SUPPLY. 45 DEG. OPTIC. INTEGRAL DRIVER.	21 VA	3500K	90 CRI	LED	2950LM	277V	CUSTOM RAL FINISH TO BE CONFIRMED BY ARCHITECT. BOTTOM OF LIGHTS 4" ABOVE CEILING PANELS FOR MAINTENANCE.
RD-03		LUMENWERX	VOILA 4 DOWNLIGHT	RECESSED ADJUSSTABLE LED ROUND DOWNLIGHT WITH 40DEG. FLOOD OPTIC COMPLETE WITH DIMMING POWER SUPPLY.	14 VA	3500K	90 CRI	LED	1500 LM	277V	
SF-5		LUMENWERX	VIA2 DAMP RATED	5' RECESSED DAMP RATED LED LINEAR LIGHT WITH FLUSH OPAL LENS COMPLETE WITH DIMMING POWER SUPPLY.	44 VA	3500K	90 CRI	LED	750 LM/FT	277V	8W PER LINEAR FOOT
SF-14		LUMENWERX	VIA2 DAMP RATED	14' RECESSED DAMP RATED LED LINEAR LIGHT WITH FLUSH OPAL LENS COMPLETE WITH DIMMING POWER SUPPLY.	123 VA	3500K	90 CRI	LED	750 LM/FT	277V	8W PER LINEAR FOOT
SH-8		LUMENWERX	REVO 3 DIRECT/INDIRECT PENDANT	8' SUSPENDED LED LINEAR LIGHT WITH DIRECT/INDIRECT DISTRIBUTION INDIVIDUALLY CONTROLLABLE COMPLETE WITH DIMMING POWER SUPPLY.	68 VA	3500K	90 CRI	LED	5000LM/4FT	277V	
SP-01		STRUCTURA	VOLTA RING WET RATED CUSTOM	72" DIAM.(OUTER RING) SUSPENDED WET RATED LED "RING" LIGHT. DIRECT ONLY DISTRIBUTION COMPLETE WITH REMOTE DIMMING POWER SUPPLY	91 VA	3500K	90 CRI	LED	5032 LM	277V	CUSTOM RAL# TBC BY ARCHITECT.
SP-03		STRUCTURA	VOLTA RING WET RATED CUSTOM	36" DIAM. (OUTER RING)SUSPENDED DIRECT/INDIRECT LED PENDANT LIGHT COMPLETE WITH REMOTE DIMMING POWER SUPPLY.	53 VA	3500K	90 CRI	LED	3489 LM	277V	CUSTOM RAL# TBC BY ARCHITECT.
SP-04		STRUCTURA	VOLTA RING WET RATED CUSTOM	48" DIAM. (OUTER RING)SUSPENDED DIRECT/INDIRECT LED PENDANT LIGHT. COMPLETE WITH REMOTE DIMMING POWER SUPPLY	71 VA	3500K	90 CRI	LED	4653 LM	277V	CUSTOM RAL# TBC BY ARCHITECT.
WM-02		LUMENPULSE	LUMENQUAD MEDIUM	WALL MOUNTED ADJUSTABLE UPLIGHT OR DOWNLIGHT (REFER TO DRAWINGS) WITH TYPE IV DISTRIBUTION AND BACKLIGHTING SHIELD COMPLETE WITH DIMMING POWER SUPPLY, VISOR AND LOW LUMINANCE LOUVERS.	28 VA	3500K	90 CRI	LED	1512 LM	277V	
WM-4		LUMENWERX	CUBITO WALL	4FT LED LINEAR WALL LIGHT COMPLETE WITH DIMMING POWER SUPPLY. INTEGRAL DRIVER. LOW OUTPUT	13 VA	3500K	80 CRI	LED	450 LM/FT	277V	
WM-12		LUMENWERX	CUBITO WALL	4FT LED LINEAR WALL LIGHT COMPLETE WITH DIMMING POWER SUPPLY. INTEGRAL DRIVER. LOW OUTPUT	36 VA	3500K	80 CRI	LED	450 LM/FT	277V	
WR-01		LUMENPULSE	LUMENBLADE SURFACE	LED WALL MOUNTED LIGHT WITH TYPE IV DISTRIBUTION COMPLETE WITH 0-10V DIMMING POWER SUPPLY AND INTEGRAL OCC SENSOR	35 VA	3500K	80 CRI	LED	2800LM	277V	

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MOSSWOOD COMMUNITY CENTER - PHASE 1

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Drawn by: NH
Designed by: AM
Checked by: AM

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:40:17 PM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title

LIGHTING FIXTURE, PANEL, EQUIPMENT SCHEDULES

Drawing No.

E0.3

Sheet No.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 1 of 7)**
Project Address:	3612 Webster Street	**Date Prepared:**	8/19/2021

A. GENERAL INFORMATION

01	Project Location (city)	Oakland	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	3	05	Total Unconditioned Floor Area (ft²)	1,669
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	2

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (Write In) See Table I

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	0	Area Category Method	1669
☐ New Lighting System – Parking Garage				
Total Area of Work (ft²)	0		1669	

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08** §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned					=		≥			=		
Unconditioned		944.45	0		=	944.45	≥	901	0	=	901	COMPLIES
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
E	E	No	No	56	Mfr. Spec	4	No	224	☐	☐
L-1	L-1	No	No	60	Mfr. Spec	1	No	60	☐	☐

F. INDOOR LIGHTING FIXTURE SCHEDULE

LR-01	LR-01	No	No	26	Mfr. Spec	12	No	312	☐	☐
RD-03	RD-03	No	No	14	Mfr. Spec	19	No	266	☐	☐
WM-04	WM-04	No	No	13	Mfr. Spec	3	No	39	☐	☐
						Total Designed Watts: UNCONDITIONED SPACES		901		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01 Mandatory Demand Response §110.12(c)	02 Shut-off controls §130.1(c)	03 Field Inspector Pass	03 Field Inspector Fail
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Sky lit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass	12 Field Inspector Fail

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*	13 Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(h) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment Area Category	06 Additional Allowance / Adjustment PAF
Stair	Stairwell	0.5	392	196	No	No
Storage/Support/Janitor	Stairwell	0.5	544	272	No	No
Restroom	Restrooms	0.65	733	476.45	No	No
		TOTALS:	1,669	944.45	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

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Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.10
Sheet No.

LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:36:43 PM

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 5 of 7)**
Project Address:	3612 Webster Street	**Date Prepared:**	8/19/2021

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 6 of 7)**
Project Address:	3612 Webster Street	**Date Prepared:**	8/19/2021

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
●	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003
Schema Version: rev 20190401

Registration Provider: Energysoft

Report Generated: 2021-08-19 17:07:17

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 7 of 7)**
Project Address:	3612 Webster Street	**Date Prepared:**	8/19/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ruicong Liu	Documentation Author Signature:
Company: Integral Group Inc.	Signature Date: 2021-08-19
Address: 15760 Ventura Blvd #1902	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Los Angeles CA 91436	Phone: 323-825-9955

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 will ensure that a completed signed 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. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Corey Lyons	Responsible Designer Signature:
Company: Integral Group Inc.	Date Signed: 2021-08-19
Address: 15760 Ventura Blvd #1902	License: E 18240
City/State/Zip: Los Angeles CA 91436	Phone: 323-825-9955

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

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Registration Provider: Energysoft

Report Generated: 2021-08-19 17:07:17

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Drawn by: NH
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No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
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	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.11

Sheet No.

PLOT DATE: 7/14/2022 3:39:48 PM
LMSA PROJECT NUMBER: 1902

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 1 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood-nd.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	Oakland	8	Standards Version	Compliance2019
2	CA Zip Code	94609	9	Compliance Software (version)	CBECC-Com 2019.1.3
3	Climate Zone	3	10	Weather File	OAKLAND_724930_CZ2010.epw
4	Total Conditioned Floor Area in Scope	9,594 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	2,404 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	2	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	None

B. PROJECT SUMMARY

Table Instructions: 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 permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope (see Table G)	☒	Performance	Covered Process: Commercial Kitchens	☒ 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).*	
	☐	Not Included		☐ Not Included		
Mechanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐ Performance	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
	☐	Not Included		☒ Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☒	Performance	Covered Process: Laboratory Exhaust	☐ Performance	Sign Lighting §140.8	*NRCC -LTS-E*
	☐	Not Included		☒ Not Included	Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒	Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐	Not Included			Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐	Performance			Commissioning §120.8	*NRCC-CXR-E*
	☒	Not Included			Solar Ready §110.10	*NRCC-SRA-E*

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 2 of 21
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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	16.31	148.30	-131.99
Space Cooling	55.81	60.91	-5.10
Indoor Fans	280.51	93.77	186.74
Heat Rejection	--	--	--
Pumps & Misc.	--	1.53	-1.53
Domestic Hot Water	20.60	22.30	-1.70
Indoor Lighting	48.30	53.41	-5.11
ENERGY STANDARDS COMPLIANCE TOTAL	**421.53**	**380.22**	**41.31 (9.8%)**

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

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	91.55	91.55	--
Process	12.82	12.82	--
Other Ltg	10.81	10.51	0.30
Process Motors	5.43	5.43	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**542.14**	**500.53**	**41.6 (7.7%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 3 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
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C3. 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	--	53.3	--	39.1	--	--
Space Cooling	14.0	17.1	-3.1	--	--	--
Indoor Fans	90.3	31.6	58.7	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	0.5	--	--	--	--
Domestic Hot Water	1.3	7.7	-6.4	42.8	--	--
Indoor Lighting	15.1	17.4	-2.3	--	--	--
Compliance Total	**120.7**	**127.6**	**-6.9**	**81.9**	**0.0**	**--**
Receptacle	30.0	30.0	0.0	--	--	--
Process	4.5	4.5	0.0	--	--	--
Other Ltg	3.5	3.4	0.1	--	--	--
Process Motors	1.7	1.7	0.0	--	--	--
TOTAL	**160.4**	**167.2**	**-6.8**	**81.9**	**0.0**	**--**

D. EXCEPTIONAL CONDITIONS

E. HERS VERIFICATION

This Section Does Not Apply

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 11 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
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K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
				Additional (Custom) Allowance	
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Tailored Method (Watts)
Electrical, Mechanical, Telephone Rooms	421	260	0	0	0
Office Area (<250 square feet)	257	190	0	0	0
Corridor Area	2,118	1,041	0	0	0
Classroom, Lecture, Training, Vocational Areas	3,659	2,964	0	0	0
Kitchen/Food Preparation Area	505	336	0	0	0
Main Entry Lobby	999	476	0	0	0
Convention, Conference, Multipurpose and Meeting Area	1,633	1,066	0	0	0
Building Totals:	**9,592**	**6,333**	**0**	**0**	**0**

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in the table*

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)		Installed Watts (Conditioned)			
1	2	3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
CL-02		17	According to §130.0(c)	2	34

P1

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Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.12

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:39:49 PM

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 12 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood-nd.cibd19x		

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft^2 in offices)

		Installed Watts (Conditioned)			
1	2	3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
CL-04		34	According to §130.0(c)	1	34
CL-06		51	According to §130.0(c)	1	51
CL-08		68	According to §130.0(c)	7	476
CL-10		85	According to §130.0(c)	4	340
CL-12		101	According to §130.0(c)	6	606
CL-14		118	According to §130.0(c)	1	118
CW-08		49	According to §130.0(c)	2	98
CW-11		67	According to §130.0(c)	2	134
CW-13		80	According to §130.0(c)	1	80
CW-16		98	According to §130.0(c)	1	98
CW-18		110	According to §130.0(c)	1	110
DW-11		77	According to §130.0(c)	1	77
DW-16		112	According to §130.0(c)	1	112
DW-19		133	According to §130.0(c)	2	266

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 13 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood-nd.cibd19x		

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft^2 in offices)

		Installed Watts (Conditioned)			
1	2	3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
DW-32		224	According to §130.0(c)	1	224
DW-34		238	According to §130.0(c)	1	238
LR-01		26	According to §130.0(c)	10	260
MW-12		54	According to §130.0(c)	3	162
MW-8		36	According to §130.0(c)	1	36
RC-01		28	According to §130.0(c)	12	336
RC-02		19	According to §130.0(c)	23	437
RC-03		21	According to §130.0(c)	13	273
RC-04		21	According to §130.0(c)	10	210
RD-03		14	According to §130.0(c)	5	70
SH-8		68	According to §130.0(c)	14	952
SP-01		91	According to §130.0(c)	2	182
SP-03		53	According to §130.0(c)	2	106
SP-04		71	According to §130.0(c)	3	213

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 14 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
113 Electrical	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00 0.00	LR-01	104.0	4	104	0
115 MPOE	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00 0.00	LR-01	52.0	2	52	0
103 Directors Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00 0.00 0.00	RC-02	114.0	6	114	0
105 Inclusion Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00 0.00 0.00	RC-02	76.0	4	76	0
106 Gallery	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00 0.00	CW-08 SH-8	49.0 204.0	1 3	253	0
107 Hallway	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00 0.00	RC-03 RC-04	105.0 84.0	5 4	189	0
111 Inclusion Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00	CW-16 MW-8	98.0 36.0	1 1	381	0

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 15 of 21
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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
			0.00 0.00 0.00	RC-02	247.0	13		
112 Kitchen	Kitchen/Food Preparation Area	NA	0.00 0.00 0.00 0.00 0.00 0.00	RC-01	336.0	12	336	0
101 Reception Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00 0.00 0.00	RC-03 RC-04 SP-01	168.0 126.0 182.0	8 6 2	476	0
116 Social Hall	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00 0.00 0.00	CW-13 DW-34 SH-8	80.0 238.0 748.0	1 1 11	1066	0
205 Tele/Elec	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00 0.00	LR-01	52.0	2	52	0
202 Elev Control	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00 0.00	LR-01	52.0	2	52	0
210 Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00	CL-08 CL-12 CW-11 DW-19	204.0 303.0 67.0 133.0	3 3 1 1	761	0

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No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title

TITLE 24 COMPLIANCE FORMS

Drawing No.

E0.13

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:36:31 PM

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 16 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood-nd.cibd19x		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
			0.00	MW-12	54.0	1		
209 Computer Lab	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	CL-08 CL-12 CW-11 DW-16 MW-12	204.0 303.0 67.0 112.0 54.0	3 3 1 1 1	740	0
216 Gallery	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00	DW-19 SP-03 SP-04	133.0 106.0 213.0	1 2 3	452	0
207 Hallway	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00	DW-11 RD-03 - none -	77.0 70.0	1 5	147	0
208 Makers Space	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	CL-02 CL-04 CL-06 CL-08 CL-10	34.0 34.0 51.0 68.0 340.0	2 1 1 1 4	527	0
208 Makers Space	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	CL-14 CW-08 CW-18 DW-32 MW-12	118.0 49.0 110.0 224.0 54.0	1 1 1 1 1	555	0

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Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
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K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

1	2
Mandatory Demand Response §110.12(c)	**Shut-Off Controls §130.1(c)**

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

4	5	6	7	8	9	10
Area Description	**Area Category Primary Function Area**	**Area Controls 130.1(a)**	**Multi-Level Controls 130.1(b)**	**Shut-Off Controls 130.1(c)**	**Primary Daylighting 130.1(d)**	**Secondary Daylighting 140.5(d)**

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 18 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
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L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance
Covered Process	NRCI-PRC-01-E - Must be submitted for all Covered Processes

Project Name:	Mosswood Community Center-Phase 1	NRCC-PRF-01-E	Page 19 of 21
Project Address:	3612 Webster Street Oakland 94609	Calculation Date/Time:	13:19, Thu, Aug 19, 2021
Input File Name:	20210819 T24 Mosswood-nd.cibd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to 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). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
	NRCA-LTI-03-A - Automatic Daylight Controls
Covered Process	NRCA-PRC-02-F - Kitchen Exhaust
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints
	NRCA-MCH-07-A Supply Fan Variable Flow Controls
	NRCA-MCH-16-A Supply Air Temperature Reset Controls
	NRCA-MCH-18 Energy Management Control Systems
	NRCA-MCH-19 Occupancy Sensor Controls

P1

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Project Information

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Drawing Title

TITLE 24 COMPLIANCE FORMS

Drawing No.

E0.14

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:39:34 PM

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at:
https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title
Mechanical	NRCV-MCH-04-H Duct Leakage Test
	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation
	NRCV-MCH-32-H Local Mechanical Exhaust

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ruicong Liu	Signature: Ruicong Liu
Company: Integral Group	
Address: 427 13th Street	Signature Date: 2021-08-19
City/State/Zip: Oakland CA 94612	CEA/ HERS Certification Identification (if applicable):
Phone: 5106632070	

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 will ensure that a completed signed 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. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:	Signature:	
Company: Leddy Maytum Stacy		
Address: 1940 Bryant Street	Date Signed:	
City/State/Zip: San Francisco CA 94110		
Phone: 4154951700	Title: Architect	License #:
Responsible Lighting Designer Name:	Signature:	
Company: Integral Group		
Address: 427 13th Street	Date Signed: 2021-08-19	
City/State/Zip: Oakland CA 94612		
Phone: 5106632070	Title: Engineer	License #: E 18240
Responsible Mechanical Designer Name: - specify -	Signature:	
Company: Integral Group		
Address: 427 13th Street	Date Signed: 2021-08-19	
City/State/Zip: Oakland CA 94612		
Phone: 5106632070	Title: Engineer	License #: M 29791

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No.	DATE	ISSUE DESCRIPTION
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	07/15/2022	100%CD / BID SET

Project Information

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Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.15 P1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:39:56 PM

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 1 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

A. GENERAL INFORMATION

01	Project Location (city)	Oakland	04	Total Illuminated Hardscape Area (ft²)	140808.44
02	Climate Zone	3			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01		02		
☒	New Lighting System	Must Comply with Allowances from §140.7		
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03		04	05	
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10%	☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 2 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)3 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
4,750.46	+	57	+	—	+	—	+	471.52	OR	---	=	5,278.98	≥	4,535	COMPLIES
Cutoff Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2022-03-03 21:53:45

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 3 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[3]	Luminaire Status[1]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
AC-1	AC-1	☐ Linear	9	Mfr. Spec	1	New	☐	9	NA: < 6200 lumens	☐	☐
AC-4	AC-4	☐ Linear	35	Mfr. Spec	1	New	☐	35	NA: < 6200 lumens	☐	☐
PL-01	PL-01	☐ Linear	150	Mfr. Spec	9	New	☐	1,350	NA: < 6200 lumens	☐	☐
PL-02	PL-02	☐ Linear	100	Mfr. Spec	17	New	☐	1,700	NA: < 6200 lumens	☐	☐
PL-03	PL-03	☐ Linear	100	Mfr. Spec	1	New	☐	100	NA: < 6200 lumens	☐	☐
PT-01	PT-01	☐ Linear	70	Mfr. Spec	1	New	☐	70	NA: < 6200 lumens	☐	☐
PT-02	PT-02	☐ Linear	100	Mfr. Spec	4	New	☐	400	NA: < 6200 lumens	☐	☐
SF-14	SF-14	☐ Linear	123	Mfr. Spec	1	New	☐	123	NA: < 6200 lumens	☐	☐
SF-5	SF-5	☐ Linear	44	Mfr. Spec	2	New	☐	88	NA: < 6200 lumens	☐	☐
SP-01	SP-01	☐ Linear	100	Mfr. Spec	1	New	☐	100	NA: < 6200 lumens	☐	☐
WM-02	WM-02	☐ Linear	28	Mfr. Spec	20	New	☐	560	NA: < 6200 lumens	☐	☐

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 4 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
						Total Design Watts:	4535		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2022-03-03 21:53:45

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.16 P1

Sheet No.

PLOT DATE: 7/14/2022 3:39:39 PM
LMSA PROJECT NUMBER: 1902

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 5 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B . Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01				
☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)

This section does not apply to this project.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	9	10
Area Description	Surface Type	Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			Total General AWA + LWA (Watts)
		Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Pedestrain Walk on Page E1.0	Asphalt	77314.44	0.03	1932.861	2021	0.4	505.25	2438.111
Pedestrain Walk on Page E1.1	Asphalt	63494	0.03	1587.35	1500	0.4	375	1962.35
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	4750.461

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B .

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
L1 Entrance 1	Building Entrance/Exit	1	19	19	SF-14	123	1	123	19
							Total Design Watts for this Area:	123	
L1 Entrance 2	Building Entrance/Exit	1	19	19	AC-1	9	1	9	19
					SP-01	100	1	100	
					AC-4	35	1	35	
							Total Design Watts for this Area:	144	
L1 Entrance 3	Building Entrance/Exit	1	19	19	SF-5	44	2	88	19
							Total Design Watts for this Area:	88	
							Total Allowance (Watts) All Areas:	57	

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B .*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2022-03-03 21:53:45

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 7 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft^2)[1]	Allowed Density (W/ft^2)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
L1 Building Facade	BuildingFacade	1456	0.17	247.52	WM-02	28	12	336	247.52
							Total Design Watts for this Area:	336	
L2 Building Facade	BuildingFacade	1712	0.17	291.04	WM-02	28	8	224	224
							Total Design Watts for this Area:	224	
							Total Allowance (Watts) All Areas:	471.52	

[1] *FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft^2 for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2022-03-03 21:53:45

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 8 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
○	●	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2022-03-03 21:53:45

CITY OF OAKLAND
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MOSSWOOD COMMUNITY CENTER - PHASE 1

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INTEGRAL
427 13th Street
Oakland, CA 94620
T 510 663 2070
F -

Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.17 P1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:40:01 PM

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Mosswood Community Center-Phase 1	**Report Page:**	**(Page 9 of 9)**
Project Address:	3612 Webster Street	**Date Prepared:**	3/3/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ruicong Liu	Documentation Author Signature:
Company: Integral Group Inc.	Signature Date: 2022-03-03
Address: 15760 Ventura Blvd #1902	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Los Angeles CA 91436	Phone: 323-825-9955

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 will ensure that a completed signed 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. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Corey Lyons	Responsible Designer Signature:
Company: Integral Group Inc.	Date Signed: 2022-03-03
Address: 15760 Ventura Blvd #1902	License: E 18240
City/State/Zip: Los Angeles CA 91436	Phone: 323-825-9955

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003
Schema Version: rev 20190401

Report Generated: 2022-03-03 21:53:45

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2B for alterations.

Project Name:	Mosswood Community Center-Phase 1	Report Page:	Page 1 of 5
Project Address:	3612 Webster Street	Date Prepared:	03-02-2022

A. GENERAL INFORMATION

01 Project Location (city)	Oakland	02 Occupancy Types Within Project:			
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/ Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare Facilities	☑ Other (Write In):	Non Residential

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01 Electrical Service Designation/ Description	02 Scope of Work[1]	03 Rating (kVA)	04 Utility Provided Metering System Exception to §130.5(a)[2]	05 System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	06 Demand Response Controls
MSA	New electrical service equipment & meter	1,330	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.*

[2] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

01		02		03		04	05
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	**Compliance Results**
(See Table F)		(See Table G)		(See Table H)		(See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	**COMPLIES**

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name:	Mosswood Community Center-Phase 1	Report Page:	Page 2 of 5
Project Address:	3612 Webster Street	Date Prepared:	03-02-2022

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

Table Instructions: Complete the table below for new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a).

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/ Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
MSA	1,330	☑	☑	☑	☑	E6.02	☐	☐

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description: **MSA**

01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 1	E1.0, E1.1, E2.1, E2.2, E5.1	☐	☐
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 1	E3.1, E3.2, E3.4, E5.1	☐	☐
Charging stations for electric vehicles	All loads in aggregate	Method 1	E1.01, E5.1	☐	☐

Table Continued

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name:	Mosswood Community Center-Phase 1	Report Page:	Page 3 of 5
Project Address:	3612 Webster Street	Date Prepared:	03-02-2022

01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
Plug Loads and appliances < 25kVA	All plug load separated by floor, type or area All groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1	E3.1, E3.2, E3.4, E5.1	☐	☐
Elevators, escalators, moving walkways	All loads in aggregate	Method 1	E5.1	☐	☐
Renewable power sources (net or total)	Each group	Method 1	E5.1	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*

[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type
Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring
Method 4: Complete metering system measures and reports loads by type
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Pii.

01	02		03	04	05	
					Field Inspector	
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Pass	Fail
MSA	☑ Voltage drop < 5%	☐ Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	E5.1	☐	☐

**NOTES If "Permitted by CA Elec Code*" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

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Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title

TITLE 24 COMPLIANCE FORMS

Drawing No.

E0.18 P1

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:40:04 PM

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: Mosswood Community Center-Phase 1	Report Page:	Page 4 of 5
Project Address: 3612 Webster Street	Date Prepared:	03-02-2022

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
Room Name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail
OFFICE	Split-wired receptacles	Occupancy Sensor	☑	E3.1, E3.2	☐	☐
LOBBY	Split-wired receptacles	Occupancy Sensor	☑	E3.1, E3.2	☐	☐
				Add Row	Remove Last	

** If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: Mosswood Community Center-Phase 1	Report Page:	Page 5 of 5
Project Address: 3612 Webster Street	Date Prepared:	03-02-2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	NEIL GALA	Documentation Author Signature:	Neil Gala
Company:	INTEGRAL GROUP INC.	Signature Date:	03-02-2022
Address:	15760 VENTURA BLVD	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	ENCINO, CA 91436	Phone:	3238259955

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 will ensure that a completed signed 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. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	COREY LYONS	Responsible Designer Signature:	
Company :	INTEGRAL GROUP INC.	Date Signed:	03-02-2022
Address:	15760 VENTURA BLVD	License:	E-18240
City/State/Zip:	ENCINO, CA 91436	Phone:	3238259955

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-E
Project Name: Mosswood Community Center-Phase 1	Report Page:	Page 1 of 5
Project Address: 3612 Webster Street	Date Prepared:	03/08/22

This document is used to demonstrate compliance with mandatory requirements in §110.10 for newly constructed buildings which are either high-rise multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance for additions to these building types which add more than 2,000 ft² of roof area. Alterations or additions of less than 2,000 ft² of roof area are not required to comply with §110.10.

A. GENERAL INFORMATION

01	Project Location (city)	Oakland	04	Building Type	Other nonresidential bldg 3 stories or fewer
02	Climate Zone	3	05	Construction Type	New Construction
03	☐ Roof is designed for vehicle traffic, parking or for heliport				

B. PROJECT SCOPE

Table Instructions: Select the compliance path the project is using to comply per §110.10(b)1B.

My project consists of (check one):

01	
☑ Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐ Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area, as documented in Table G.
☐ Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §150.1(c)8Biii and Reference Residential Appendix RA4, as documented in Table H.
☐ Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04		05		06		07	08	09
Required Minimum Area (ft²)	≤	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	≤	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	≤	Designed/ Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Table G)				(See Table H)				(See Table I)		
1,185	≤	2,837	OR		≤		OR		≤		OR			COMPLIES
E5.1, E3.3, A2.04 Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).														COMPLIES

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-E
Project Name: Mosswood Community Center-Phase 1	Report Page:	Page 2 of 5
Project Address: 3612 Webster Street	Date Prepared:	03/08/22

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ALLOCATED SOLAR ZONE

Table Instructions: Complete this table if the project is designating a solar zone to comply with §110.10(b)1B. For new construction consider total roof area; for additions consider newly added roof area.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Sky(t)) (ft²)	Method/Tool(s) Used to Determine Annual Solar Access for Potential Zones[1]	Potential Solar Zone Areas: Roof Areas with ≥ 70% Solar Access			Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
					Low-Sloped Area (≤ 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch), Oriented 90° - 300° (ft²)	Total Potential Solar Zone Area (ft²)		
Total New or Added Ro	8,000	100	1,185						1,185

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low ≤ 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?

Table Continued

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Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.19 P1

Sheet No.

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:40:07 PM

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-E
Project Name: Mosswood Community Center-Phase 1	Report Page:	Page 3 of 5
Project Address: 3612 Webster Street	Date Prepared:	03/08/22

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low ≤ 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
1	A2.04	Steep-Sloped	Yes	Yes	Yes	Yes	Yes	80	900	COMPLIES
2	A2.04	Low-Sloped		Yes	Yes	Yes	Yes	80	287	COMPLIES
3	A2.04	Low-Sloped		Yes	Yes	Yes	Yes	80	1,650	COMPLIES
								Total Designated Solar Zone Area (ft²):	**2,837**	

Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	E5.1, E3.3; A2.04

[1] *FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.*

G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM

This Section Does Not Apply

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEM

This Section Does Not Apply

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE

This Section Does Not Apply

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-E
Project Name: Mosswood Community Center-Phase 1	Report Page:	Page 4 of 5
Project Address: 3612 Webster Street	Date Prepared:	03/08/22

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	◉	NRCI-SPV-01-E - Must be submitted for all newly installed Photovoltaic Systems (PV) being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐
○	◉	NRCI-STH-01-E - Must be submitted for all newly installed Solar Water Heating systems being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to solar ready requirements.

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-E
Project Name: Mosswood Community Center-Phase 1	Report Page:	Page 5 of 5
Project Address: 3612 Webster Street	Date Prepared:	03/08/22

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Dominique Elie	Documentation Author Signature:	Dominique Elie
Company:	Leddy Maytum Stacy Architects	Signature Date:	03/08/22
Address:	1940 Bryant Street	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Francisco, CA	Phone:	415 495 1700 X 314

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 will ensure that a completed signed 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. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	Ryan Jang	Responsible Designer Signature:	Ryan Jang
Company :	Leddy Maytum Stacy Architects	Date Signed:	3/9/2022
Address:	1940 Bryant Street	License:	C33668
City/State/Zip:	San Francsico, CA 94110	Phone:	415 495 1700

P1

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F -

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Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
TITLE 24 COMPLIANCE FORMS

Drawing No.
E0.20 P1
Sheet No.

LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:40:13 PM

LIGHTING NOTES

1 -EXISTING LIGHT TO BE REMOVED.

2 -NEW FIXTURE AND POLE. REFER TO LUMINAIRES SCHEDULE.

3 -NEW FIXTURE TO EXISTING POLE.REFER TO LUMINAIRES SCHEDULE.

4 -SHORT LIGHT APPROX. 10 FT. TALL JUST OUTSIDE TENNIS COURT FENCE TO BE REMOVED. REFER TO CIVIL DRAWINGS.

5 -TALL LIGHT APPROX. 25 FT. TALL JUST OUTSIDE TENNIS COURT FENCE SIMILAR TO OTHERS AT TENNIS COURT TO REMAIN.

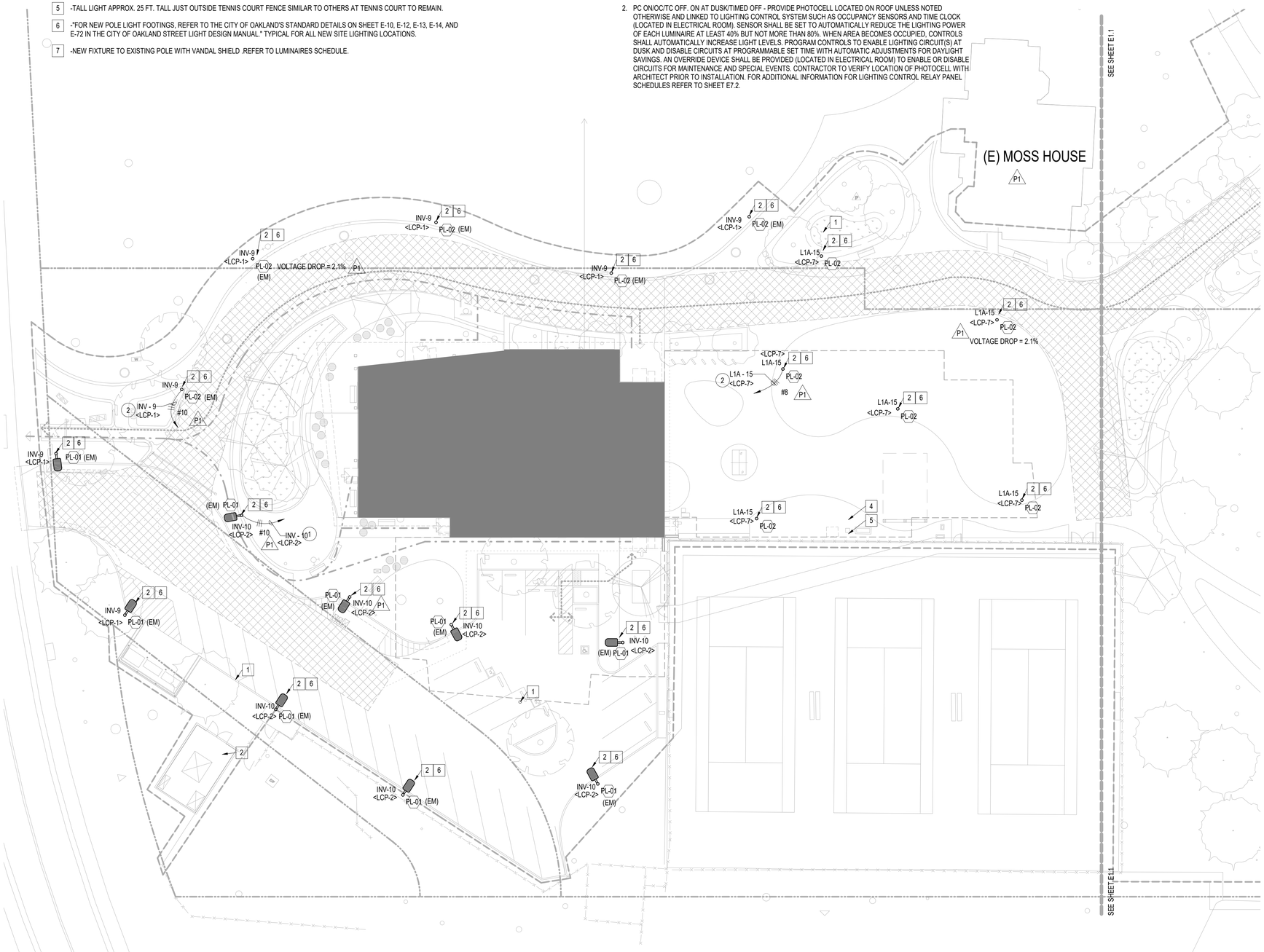
6 -"FOR NEW POLE LIGHT FOOTINGS, REFER TO THE CITY OF OAKLAND'S STANDARD DETAILS ON SHEET E-10, E-12, E-13, E-14, AND E-72 IN THE CITY OF OAKLAND STREET LIGHT DESIGN MANUAL." TYPICAL FOR ALL NEW SITE LIGHTING LOCATIONS.

7 -NEW FIXTURE TO EXISTING POLE WITH VANDAL SHIELD .REFER TO LUMINAIRES SCHEDULE.

REFERENCE NOTES

1. PC ON/TC OFF. ON AT DUSK/TIMED OFF - PROVIDE PHOTOCELL LOCATED ON ROOF UNLESS NOTED OTHERWISE AND LINKED TO LIGHTING CONTROL PANEL AND TIME CLOCK (LOCATED IN ELECTRICAL ROOMS). PROGRAM CONTROLS TO ENABLE LIGHTING CIRCUIT(S) AT DUSK AND DISABLE CIRCUITS AT PROGRAMMABLE SET TIME WITH AUTOMATIC ADJUSTMENTS FOR DAYLIGHT SAVINGS. AN OVERRIDE DEVICE SHALL BE PROVIDED (LOCATED IN ELECTRICAL ROOM) TO ENABLE OR DISABLE CIRCUITS FOR MAINTENANCE AND SPECIAL EVENTS. CONTRACTOR TO VERIFY LOCATION OF PHOTOCELL WITH ARCHITECT PRIOR TO INSTALLATION. FOR ADDITIONAL INFORMATION FOR LIGHTING CONTROL RELAY PANEL SCHEDULES REFER TO SHEET E7.2 .

2. PC ON/OC/TC OFF. ON AT DUSK/TIMED OFF - PROVIDE PHOTOCELL LOCATED ON ROOF UNLESS NOTED OTHERWISE AND LINKED TO LIGHTING CONTROL SYSTEM SUCH AS OCCUPANCY SENSORS AND TIME CLOCK (LOCATED IN ELECTRICAL ROOM). SENSOR SHALL BE SET TO AUTOMATICALLY REDUCE THE LIGHTING POWER OF EACH LUMINAIRE AT LEAST 40% BUT NOT MORE THAN 80%. WHEN AREA BECOMES OCCUPIED, CONTROLS SHALL AUTOMATICALLY INCREASE LIGHT LEVELS. PROGRAM CONTROLS TO ENABLE LIGHTING CIRCUIT(S) AT DUSK AND DISABLE CIRCUITS AT PROGRAMMABLE SET TIME WITH AUTOMATIC ADJUSTMENTS FOR DAYLIGHT SAVINGS. AN OVERRIDE DEVICE SHALL BE PROVIDED (LOCATED IN ELECTRICAL ROOM) TO ENABLE OR DISABLE CIRCUITS FOR MAINTENANCE AND SPECIAL EVENTS. CONTRACTOR TO VERIFY LOCATION OF PHOTOCELL WITH ARCHITECT PRIOR TO INSTALLATION. FOR ADDITIONAL INFORMATION FOR LIGHTING CONTROL RELAY PANEL SCHEDULES REFER TO SHEET E7.2.



1 E1.0 ELECTRICAL LIGHTING - SITE PLAN
SCALE: 1" = 20'-0"

20 0 20 40

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P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

PLOT DATE: 7/14/2022 3:40:25 PM

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
LIGHTING SITE PLAN PROPOSED W/DEMO

Drawing No.
E1.0

Sheet No.

LIGHTING NOTES

1 -EXISTING LIGHT TO BE REMOVED.

2 -NEW FIXTURE AND POLE. REFER TO LUMINAIRES SCHEDULE.

3 -NEW FIXTURE TO EXISTING POLE.REFER TO LUMINAIRES SCHEDULE.

4 -"FOR NEW POLE LIGHT FOOTINGS, REFER TO THE CITY OF OAKLAND'S STANDARD DETAILS ON SHEET E-10, E-12, E-13, E-14, AND E-72 IN THE CITY OF OAKLAND STREET LIGHT DESIGN MANUAL." TYPICAL FOR ALL NEW SITE LIGHTING LOCATIONS.

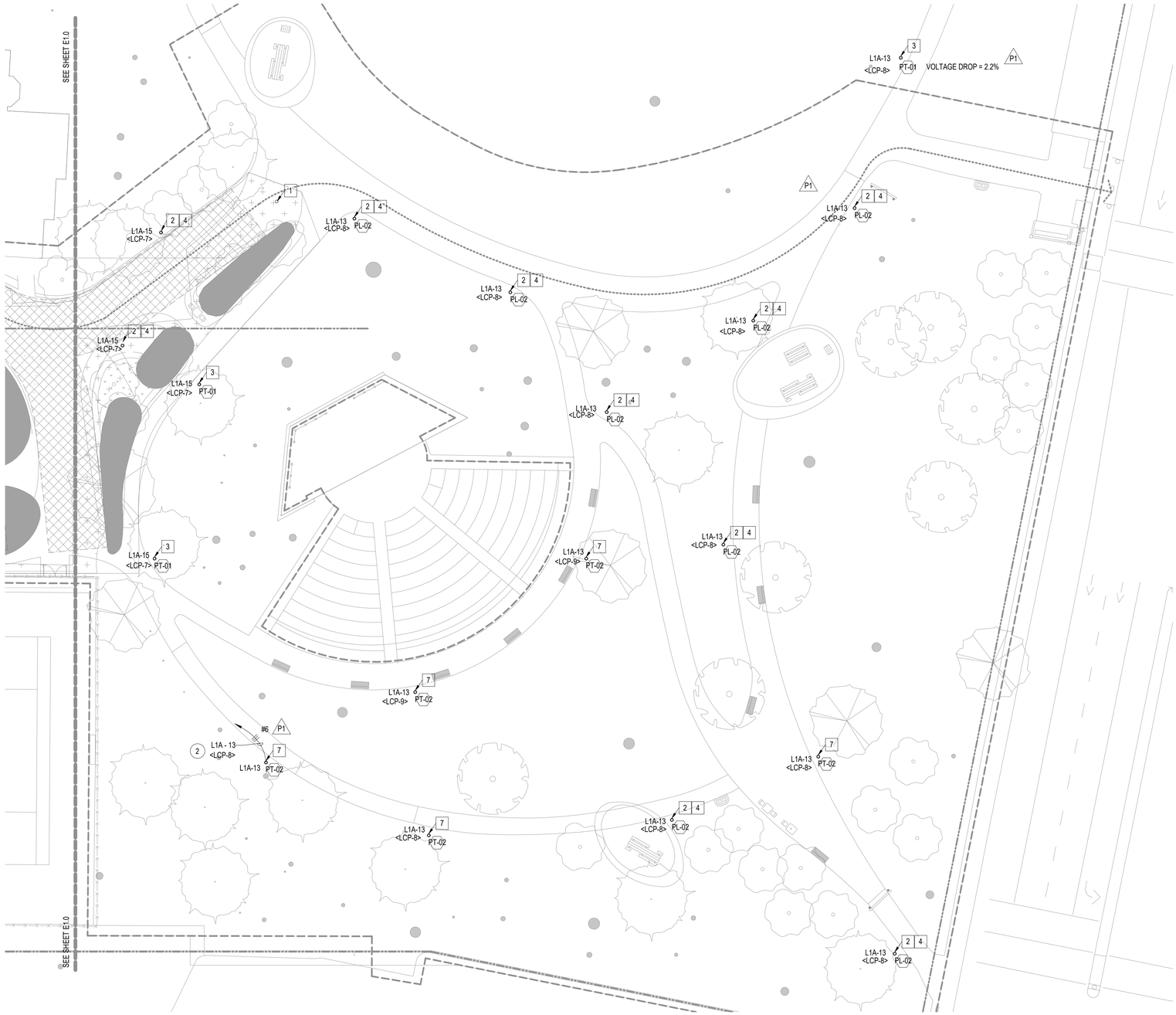
5 -NOT USED.

6 -NOT USED.

7 -NEW FIXTURE TO EXISTING POLE WITH VANDAL SHIELD .REFER TO LUMINAIRES SCHEDULE.

REFERENCE NOTES

1. PC ON/OC/TC OFF. ON AT DUSK/TIMED OFF - PROVIDE PHOTOCELL LOCATED ON ROOF UNLESS NOTED OTHERWISE AND LINKED TO LIGHTING CONTROL SYSTEM SUCH AS OCCUPANCY SENSORS AND TIME CLOCK (LOCATED IN ELECTRICAL ROOM). SENSOR SHALL BE SET TO AUTOMATICALLY REDUCE THE LIGHTING POWER OF EACH LUMINAIRE AT LEAST 40% BUT NOT MORE THAN 80%. WHEN AREA BECOMES OCCUPIED, CONTROLS SHALL AUTOMATICALLY INCREASE LIGHT LEVELS. PROGRAM CONTROLS TO ENABLE LIGHTING CIRCUIT(S) AT DUSK AND DISABLE CIRCUITS AT PROGRAMMABLE SET TIME WITH AUTOMATIC ADJUSTMENTS FOR DAYLIGHT SAVINGS. AN OVERRIDE DEVICE SHALL BE PROVIDED (LOCATED IN ELECTRICAL ROOM) TO ENABLE OR DISABLE CIRCUITS FOR MAINTENANCE AND SPECIAL EVENTS. CONTRACTOR TO VERIFY LOCATION OF PHOTOCELL WITH ARCHITECT PRIOR TO INSTALLATION. FOR ADDITIONAL INFORMATION FOR LIGHTING CONTROL RELAY PANEL SCHEDULES REFER TO SHEET E7.2.



1 E1.1 SITE LIGHTING EAST
SCALE: 1" = 20'-0"

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P1	03/17/2022	PERMIT REVISIONS
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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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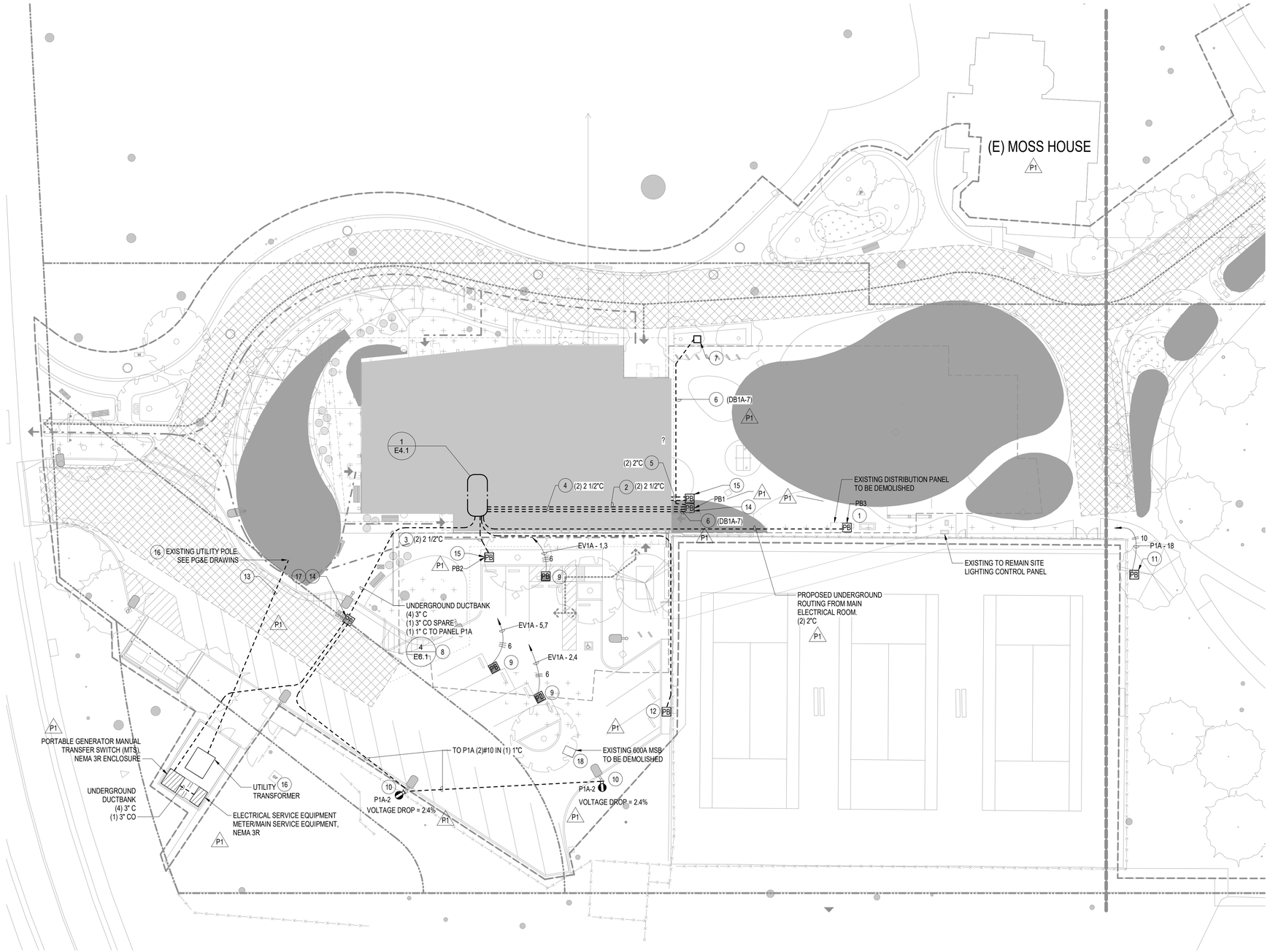
Drawing Title
ELECTRICAL EXISTING SITE PLAN W/ DEMO

Drawing No.
E1.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:40:36 PM



1 E1.01 ELECTRICAL POWER - SITE PLAN

SCALE: 1" = 20'-0"

20 0 20 40

N

GENERAL NOTES

A. CAUTION: EXISTING UNDERGROUND UTILITIES AND STRUCTURES ARE KNOWN TO EXIST ON THE PROJECT SITE. CONTRACTOR TO MAKE USE OF ALL CONSTRUCTION DOCUMENTS TO ASSIST IN LOCATING THE UNDERGROUND UTILITIES AND STRUCTURES. NO REPRESENTATION AS TO ACCURACY OR COMPLETENESS OF THE LOCATION OF THE UNDERGROUND UTILITIES OR STRUCTURES EXISTS.

B. CONTRACTOR TO EXERCISE PRECAUTIONARY MEANS INCLUDING HAND DIGGING OR VACUUM EXCAVATION TO PROTECT THE EXISTING UTILITIES AND STRUCTURES. WHERE EXACT LOCATIONS OF UTILITIES AND STRUCTURES CAN NOT BE DETERMINED HAND OR VACUUM EXCAVATION WILL BE REQUIRED.

C. INSTALLATION OF PG&E SERVICE CONDUITS, GROUNDINGS, ETC SHALL BE VERIFIED AND COORDINATED WITH PG&E PRIOR TO INSTALLATION. ALL WORK SHALL CONFORM WITH PG&E RULES, REGULATIONS, AND STANDARDS. THE PROPOSED PG&E SERVICE FEEDER ROUTING AND SIZE ARE SUBJECT TO PG&E ENGINEERING, REVIEW, AND APPROVAL. AT THE TIME OF ISSUANCE OF THESE DOCUMENTS, PG&E ENGINEERING HAS NOT BEEN COMPLETED. CONTRACTOR SHALL COORDINATE AND VERIFY REQUIREMENTS FOR THE PROJECT WITH PG&E PRIOR TO COMMENCEMENT OF WORK.

D. MINIMUM CONDUCTOR SIZE FOR SITE LIGHTING AND SITE RECEPTACLES SHALL BE #10 INCLUDING NEUTRAL CONDUCTOR.

E. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.

F. PROTECT IN PLACE ALL EXISTING SITE LIGHTING CONDUIT AND WIRE.

G. CONTRACTOR TO VERIFY EXISTING FEED TO MOSS HOUSE IS PROTECTED IN PLACE. IF FEED TO MOSS HOUSE IS UNDER THE FOOTPRINT OF NEW BUILDING, CONTRACTOR TO RELOCATE.

H. COORDINATE CONDUIT TO SITE LIGHTING LOCATIONS, SEE SITE LIGHTING PLANS.

I. ALL PULL BOXES IN THE SIDEWALK SHALL HAVE TRAFFIC RATED COVER READ "ELECTRICAL" AND MUST BE MOUNTED FLUSH WITH SIDEWALK TO AVOID TRIPPING HAZARD AND SHALL BE MOUNTED ON A MUD SLAB TO KEEP TOP OF BOX FLUSH WITH SIDEWALK.

REFERENCE NOTES

P1

1. INSTALL NEW PULL BOX PB3 18"LX18"WX24"D AND EXTEND RACEWAY AND CONDUCTORS TO EXISTING CIRCUITS MOSSWOOD HOUSE AND LIGHTING PANEL FROM DEMOLISHED DISTRIBUTION PANEL LOCATED IN PLACE OF THE PB3.
2. STUB UP AND TERMINATE CONDUIT FOR FUTURE GYM IN PULLBOX PB1. REFERENCE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. STUB UP AND TERMINATE CONDUIT FOR FUTURE POOL IN PULLBOX PB2. REFERENCE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
4. STUB UP AND TERMINATE CONDUIT FOR MOSS HOUSE IN PULLBOX PB1. REFERENCE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
5. TERMINATE CONDUITS FROM LOWER ROOM FOR FUTURE PV EQUIPMENT IN FUTURE GYM AND FUTURE POOL.
6. OUTDOOR EVENT POWER CONNECTION. FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM SHEET E5.1.
7. PROVIDE 50A, 3 PHASE, 208V POWER, NEMA15-50R RECEPTACLE IN NEMA 3R LOCKABLE ENCLOSURE PEDOC HINGE TOP OUTLET BOX WITH INTEGRAL BASE PART NUMBER 1P18HT FOR OUTDOOR EVENT POWER CONNECTION. REFER TO DETAIL 5/E6.2 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH LANDSCAPE AND ARCHITECT PRIOR TO ROUGH IN.
8. PROPOSED UNDERGROUND POWER RACEWAY. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. PROVIDE PULL BOX FOR 1" CONDUIT STUB UP FOR CHARGEPOINT CT4025 PEDESTAL MOUNT GATEWAY UNIT.
10. POWER FOR PTZ CAMERA. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH TECHNOLOGY CONSTRUCTION DOCUMENTS PRIOR TO ROUGH IN. RECEPTACLES SHALL HAVE WEATHER PROOF IN-USE COVERS.
11. 120V, 20A POWER CONNECTION FOR IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH IN.
12. PROVIDE MINIMUM PULLBOX SIZE 13"W x 24"L x 12"D. TERMINATE (1) 2"CO FOR FUTURE EV USE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
13. PG&E UNDERGROUND POWER RACEWAY. COORDINATE WITH PG&E PRIOR TO ROUGH-IN. REFER TO SHEET JT1-2 FOR ADDITIONAL INFORMATION.
14. CONCRETE PULL BOX 24"Lx36"Wx36"D.
15. CONCRETE PULL BOX 18"Lx18"Wx24"D.
16. REFER TO SHEET JT1-2 FOR ADDITIONAL INFORMATION.
17. PROVIDE HEAVY DUTY TRAFFIC LID ABLE TO WITHSTAND 75,000 LBS.
18. DEMOLISH EXISTING 600A DISTRIBUTION BOARD MSB. ABANDON CONDUIT IN PLACE. REMOVE CONDUCTORS BACK TO SOURCE OR FIRST DOWNSTREAM DEVICE TO REMAIN.

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P1	03/17/2022	PERMIT REVISIONS
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Project Information

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Drawing Title
POWER SITE PLAN PROPOSED

Drawing No.
E1.01

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:40:31 PM

GENERAL NOTES

A. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR TYPES AND MATERIALS. COORDINATE LIGHTING FIXTURE CEILING ROUGH-IN, TRIMS AND SUPPORT WITH LIGHTING SUPPLIER PRIOR TO RELEASE OF LIGHTING FIXTURES.

B. FIELD MEASURE ALL LIGHTING COVES TO DETERMINE EXACT LENGTHS. LIGHTING FIXTURES SHALL PROVIDE UNIFORM LIGHTING FROM END TO END OF COVE. MAXIMUM 6" SPACE IS ALLOWED AT EACH END OF COVE FOR CONTINUOUS INSTALLATIONS.

C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

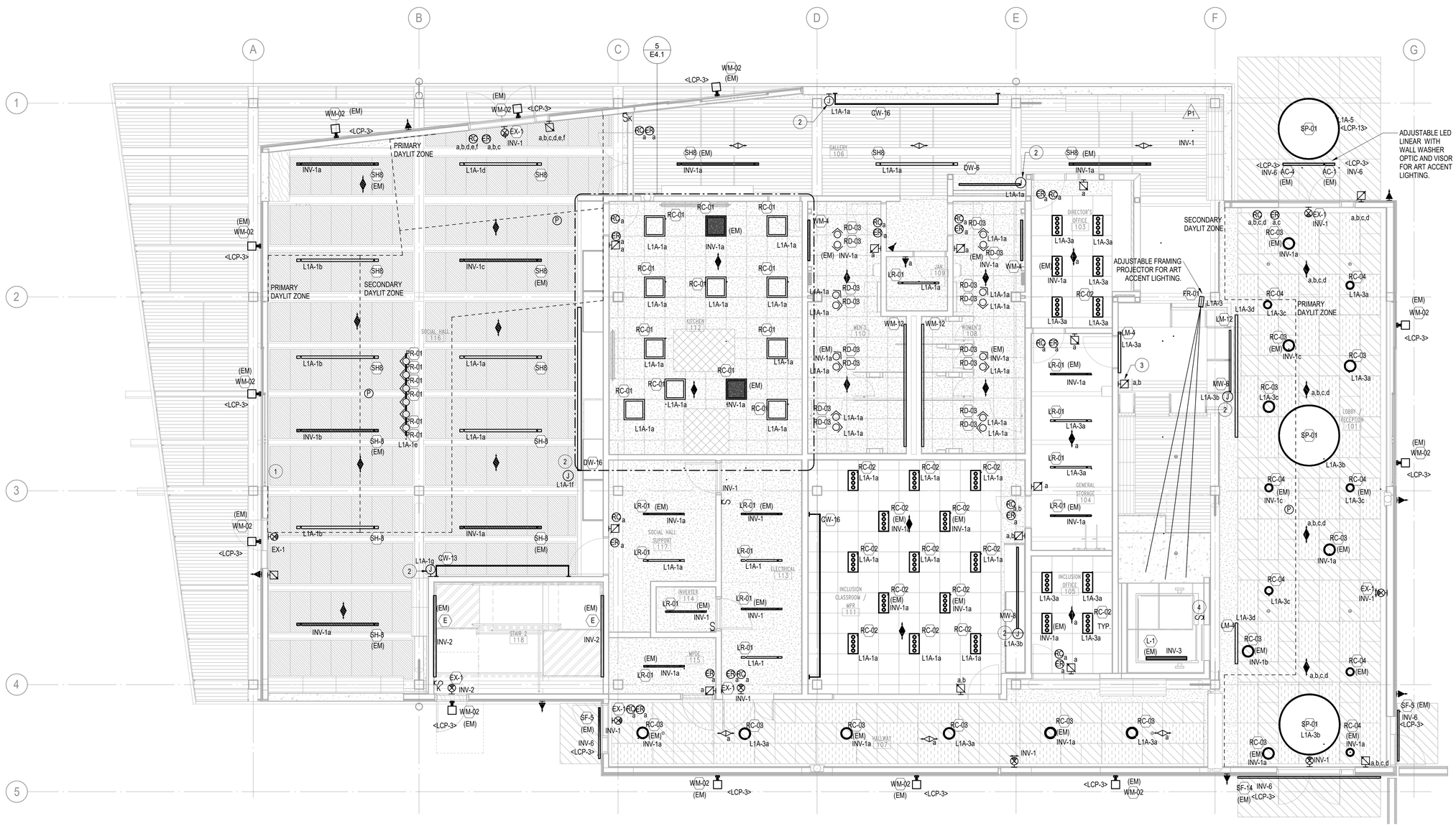
D. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

E. ELECTRICAL, MECHANICAL, MDF, IDF AND ANY ROOM / CLOSET WHERE OCCUPANT COULD BE IN PHYSICAL DANGER DUE TO LOSS OF LIGHT, TO HAVE DIGITAL TIMER SWITCH WITH MINIMUM 15 MINUTES INCREMENT AND SHUT OFF WARNING NOT EXCEEDING 5 MINUTES PRIOR TO SHUT OFF.

F. ALL EXIT FIXTURES SHALL BE PROVIDED WITH AN UNSWITCHED CONSTANT HOT.

SHEET NOTES

1. PROVIDE 1A CURRENT LIMITER FOR TRACK LIGHTING PER MANUFACTURER'S RECOMMENDATION. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALL.
2. PROVIDE 96W 0-10V DIMMING REMOTE DRIVER PER MANUFACTURER'S RECOMMENDATION. COORDINATE QUANTITIES AND INSTALLATION METHOD WITH MANUFACTGURER PRIOR TO PURCHASE. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
3. DIMMING SWITCH IN LEVEL 1 FOR LIGHTING IN GALLERY SHOWN FOR LEVEL 2 IN E2.2.
4. PROVIDE AND INSTALL PORCELAIN TYPE SWITCH TO CONTROL ELEVATOR PIT LIGHTING PER ELEVATOR INSTALLER LOCATION TO MEET NEC/CEC CODE REQUIREMENT.



1 / E2.1 ELECTRICAL LIGHTING - FIRST FLOOR PLAN

SCALE: 3/16" = 1'-0"

8 4 0 8

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	07/15/2022	100%CD / BID SET

Project Information

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Drawing Title

ELECTRICAL LIGHTING FIRST FLOOR RCP - PHASE 1

Drawing No.

E2.1

Sheet No.

PLOT DATE: 7/14/2022 3:40:48 PM

LMSA PROJECT NUMBER: 1902

GENERAL NOTES

A. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR TYPES AND MATERIALS. COORDINATE LIGHTING FIXTURE CEILING ROUGH-IN, TRIMS AND SUPPORT WITH LIGHTING SUPPLIER PRIOR TO RELEASE OF LIGHTING FIXTURES.

B. FIELD MEASURE ALL LIGHTING COVES TO DETERMINE EXACT LENGTHS. LIGHTING FIXTURES SHALL PROVIDE UNIFORM LIGHTING FROM END TO END OF COVE. MAXIMUM 6" SPACE IS ALLOWED AT EACH END OF COVE FOR CONTINUOUS INSTALLATIONS.

C. OCCUPANCY SENSOR IN OFFICES SHOULD BE "MANUAL ON / AUTO OFF".

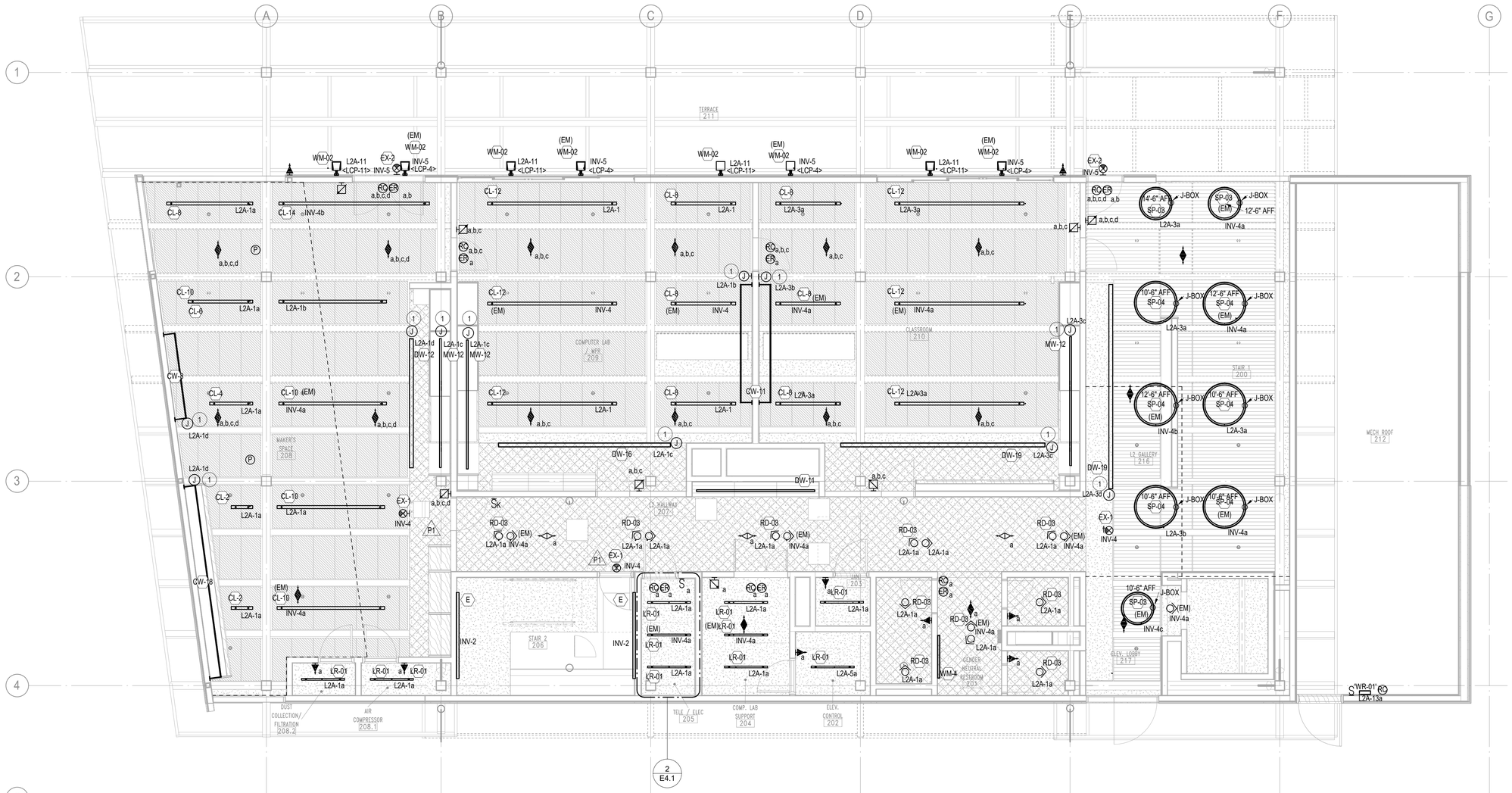
D. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

E. ELECTRICAL, MECHANICAL, MDF, IDF AND ANY ROOM / CLOSET WHERE OCCUPANT COULD BE IN PHYSICAL DANGER DUE TO LOSS OF LIGHT, TO HAVE DIGITAL TIMER SWITCH WITH MINIMUM 15 MINUTES INCREMENT AND SHUT OFF WARNING NOT EXCEEDING 5 MINUTES PRIOR TO SHUT OFF.

F. ALL EXIT FIXTURES SHALL BE PROVIDED WITH AN UNSWITCHED CONSTANT HOT.

SHEET NOTES

1. PROVIDE 96W 0-10V DIMMING REMOTE DRIVER PER MANUFACTURER'S RECOMMENDATION. COORDINATE QUANTITIES AND INSTALLATION METHOD WITH MANUFACTGURER PRIOR TO PURCHASE. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.



1 / E2.2 ELECTRICAL LIGHTING - SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

8 4 0 8

N

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Project Information

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Drawing Title

ELECTRICAL LIGHTING SECOND FLOOR RCP - PHASE 1

Drawing No.

E2.2

Sheet No.

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:40:56 PM

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO ROUGH-IN .

B. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

C. REFER TO DATA/TELECOM, AUDIO-VISUAL AND SECURITY PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES.SEE EQUIPMENT SCHEDULE ELECTRICAL REQUIREMENTS FOR CIRCUITING OF EQUIPMENT AND REFER TO RISER DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTION. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES (CEC 210.4(B), 240.15(B)(1)). THE UNGROUNDED AND GROUNDED CIRCUIT CONDUCTORS OR EACH MULTIWIRE BRANCH CIRCUIT SHALL BE IDENTIFIED OR GROUPED BY USING WIRE MARKERS, CABLE TIES, OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE ENCLOSURE (CEC 210.4(D))

E. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE CONNECTION BETWEEN THE EQUIPMENT AND ITS DISCONNECT SWITCH.

F. COORDINATE WITH ARCHITECT FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES, ELECTRICAL DEVICES, ETC.

G. PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/BY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FROM NEAREST AVAILABLE PANEL, UNLESS OTHERWISE NOTED.

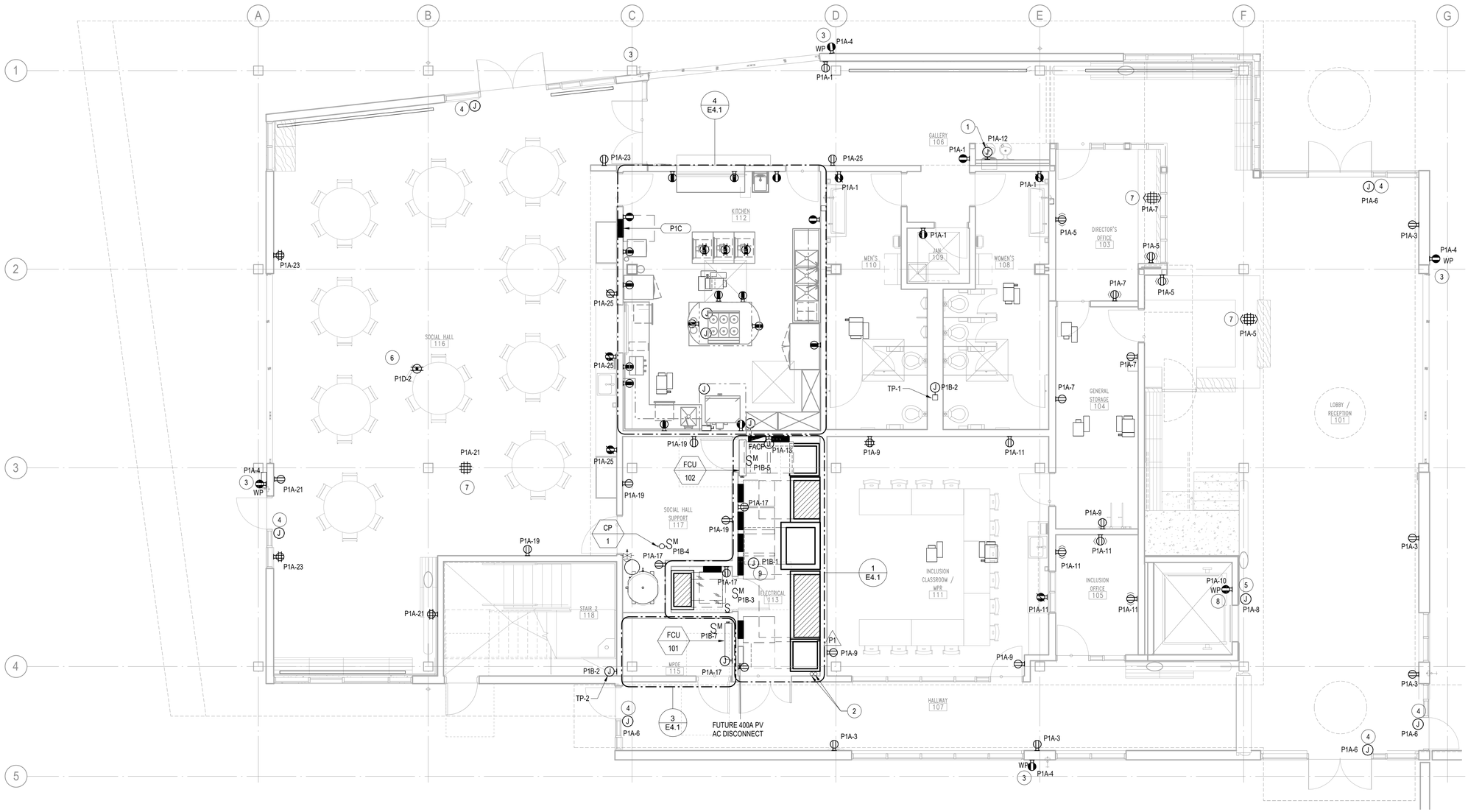
H. REFER TO FOODSERVOCE PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES. SEE EQUIPMENT SCHEDULE ELECTRICAL REQUIREMENTS SHEET FS.4 FOR ADDITIONAL INFORMATION.

P1

I. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THE DEDICATED ELECTRICAL FOOTPRINT SPACE ABOVE ELECTRICAL EQUIPMENT PER CEC 110.26(E)(1)(A)

REFERENCE NOTES

1. POWER CONNECTION FOR DRINKING FOUNTAIN. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE (1)4" EMT CONDUIT FOR PV POWER AND (1) 1" EMT CONDUIT FROM PV AC DISCONNECT TO LOWER ROOF PV EQUIPMENT AREA.
3. LOCKABLE TYPE EXTERIOR OUTLET. COORDINATE INSTALLATION REQUIREMENTS AND EXACT LOCATION WITH ARCHITEC PRIOR TO ROUGH IN.
4. POWER CONNECTION FOR ACTUATED DOOR. CONTRACTOR TO PROVIDE THE WIRING AND INFRASTRUCTURE FOR BOTH SIDES OF THE DOOR FOR THE ACTUATOR PER MANUFACTURER RECOMMENDATION.
5. COORDINATE INSTALLATION REQUIREMENTS AND EXACT LOCATION WITH ARCHITEC PRIOR TO ROUGH IN.
6. POWER CONNECTION FOR SMOKE CURTAIN. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH EQUIPMENT INSTALLER.
7. POWER CONNECTION FOR CEILING PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
7. REFER TO TECHNOLOGY DRAWINGS FOR FLOOR BOX SPECIFICATIONS.
8. PROVIDE AND INSTALL 120V, 20AMP GRI WEATHER PROOF RECEPTICAL PER ELEVATOR INSTALLER LOCATION TO MEET NEC/CEC CODE REQUIREMENTS. PROVIDE RIGID CONDUIT AS REQUIRED FOR A COMPLETE INSTALLATION.
9. PROVIDE JUNCTION BOX FOR POWER CONNECTIONS TO HVAC CONTROLS AND SMALL EQUIPMENT FROM JUNCTION BOX LOCATED ABOVE CEILING. EXTEND WIRES AND CONDUIT (3/4"C, (2)#12, & (1) #12GND), TO EACH HVAC CONTROL AND SMALL EQUIPMENT LOCATION. REFER TO MECHANICAL AND PLUMBING DOCUMENTS FOR LOCATIONS OF VAV'S, DDC PANELS, ETC. PAINT BOX YELLOW AND PROVIDE ENGRAVED PLACARD TO READ "MECHANICAL SYSTEMS CONTROL POWER ONLY. CONNECT MAX 1200 WATTS PER CIRCUIT.



1 E3.1 ELECTRICAL POWER - FIRST FLOOR PLAN

SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title

ELECTRICAL POWER FIRST FLOOR PLAN - PHASE 1

Drawing No.

E3.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:41:03 PM

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO ROUGH-IN .

B. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

C. REFER TO DATA/TELECOM, AUDIO-VISUAL AND SECURITY PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TOALL CONDUITS AND JUNCTION BOXES. SEE EQUIPMENT SCHEDULE ELECTRICAL REQUIREMENTS FOR CIRCUITING OF EQUIPMENT AND REFER TO RISER DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTION. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES (CEC 210.4(B), 240.15(B)(1)). THE UNGROUNDED AND GROUNDED CIRCUIT CONDUCTORS OR EACH MULTIWIRE BRANCH CIRCUIT SHALL BE IDENTIFIED OR GROUPED BY USING WIRE MARKERS, CABLE TIES, OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE ENCLOSURE (CEC 210.4(D))

E. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE CONNECTION BETWEEN THE EQUIPMENT AND ITS DISCONNECT SWITCH.

F. PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/BY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FROM NEAREST AVAILABLE PANEL, UNLESS OTHERWISE NOTED.

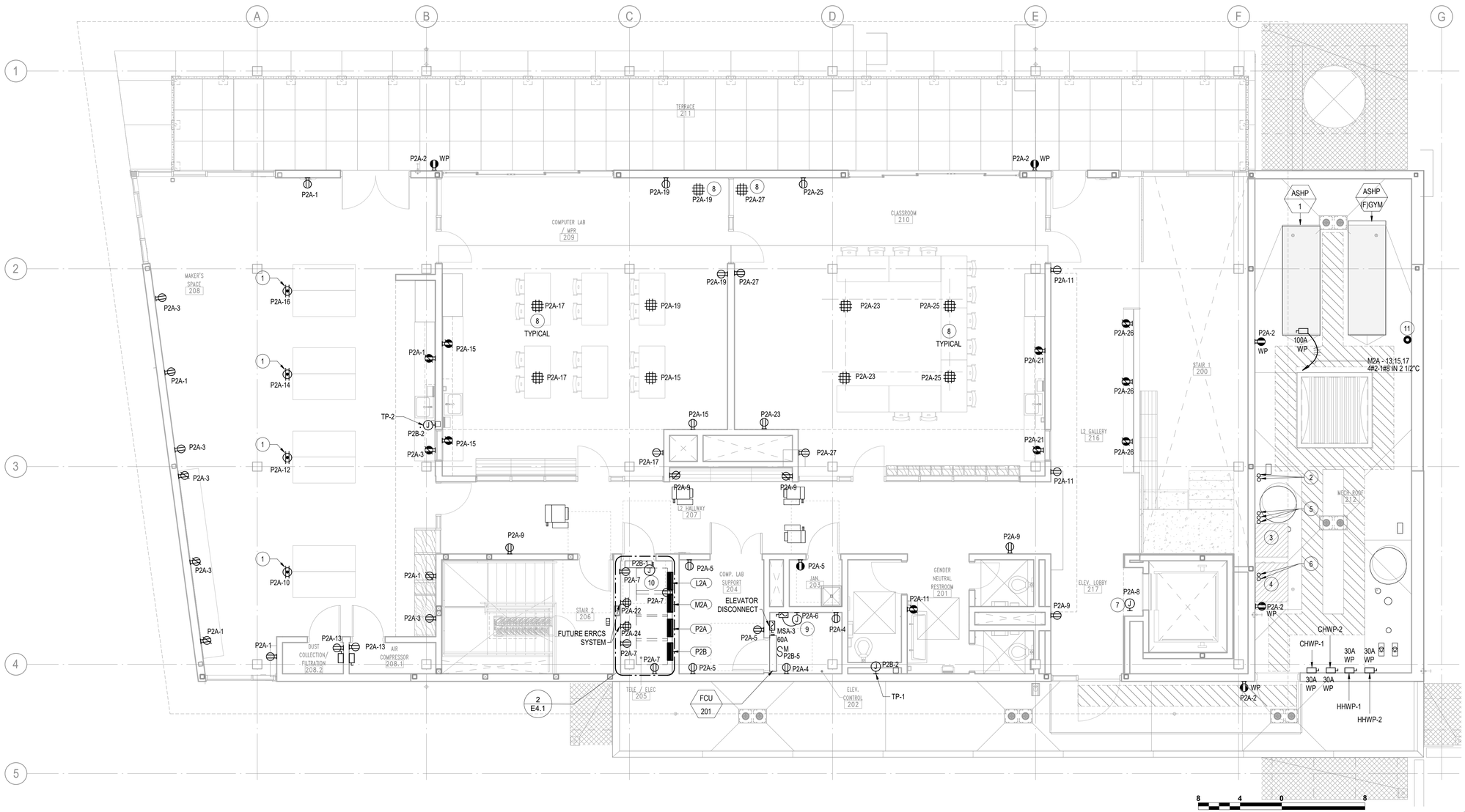
G. REFER TO FOODSERVICE PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES.

H. STUB A MINIMUM OF 4 SPARE 3/4" CONDUITS FROM ALL NEW RECESSED PANELBOARDS TO ACCESSIBLE CEILING LOCATION.

I. COORDINATE WITH ARCHITECT FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES, ELECTRICAL DEVICES, ETC.

REFERENCE NOTES

1. CONNECTION FOR CORD REEL. REFER DETAIL 4/E6.3. COORDINATE EXACT LOCATION OF CORD REEL AND OUTLET WITH ARCHITECT PRIOR TO ROUGH-IN.
2. STUB UP (1)4" EMT CONDUIT FOR PV POWER AND (1) 1" EMT CONDUIT TO PV AC DISCONNECT IN MAIN ELECTRICAL ROOM ON LEVEL 1.
3. SPACE RESERVED FOR FUTURE GYM PV EQUIPMENT.
4. SPACE RESERVED FOR FUTURE POOL PV EQUIPMENT.
5. PROVIDE (3)2" CO. FROM FUTURE GYM ROOF.
6. PROVIDE (2)2" CO. FROM FUTURE POOL ROOF.
7. POWER CONNECTION FOR SMOCK CURTAIN. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH EQUIPMENT INSTALLER.
8. CONTRACTOR TO REFER TO TECHNOLOGY DRAWINGS FOR FLOOR BOX SPECIFICATIONS.
9. POWER FOR CONNECTION TO ELEVATOR CAB LIGHTS. COORDINATE POWER AND INSTALATION REQUERE MENTS WITH ELEVATOR SUPPLIER PRIOR TO ROUGN IN.
10. PROVIDE JUNCTION BOX FOR POWER CONNECTIONS TO HVAC CONTROLS AND SMALL EQUIPMENT FROM JUNCTION BOX LOCATED ABOVE CEILING. EXTEND WIRES AND CONDUIT (3/4"C, (2)#12, & (1) #12GND), TO EACH HVAC CONTROL AND SMALL EQUIPMENT LOCATION. REFER TO MECHANICAL AND PLUMBING DOCUMENTS FOR LOCATIONS OF VAV'S, DDC PANELS, ETC. PAINT BOX YELLOW AND PROVIDE ENGRAVED PLACARD TO READ "MECHANICAL SYSTEMS CONTROL POWER ONLY. CONNECT MAX 1200 WATTS PER CIRCUIT.
11. PROVIDE 2 1/2" CONDUIT AND STUB INTO ELECTRICAL ROOM 205 FOR CONNECTION TO FUTURE GYM MECHANICAL EQUIPMENT. LABEL BOTH ENDS OF CONDUIT WITH THE LOCATION OF THE OPPOSITE END. VERIFY LOCATION IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.



1 E3.2 ELECTRICAL POWER - SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

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Drawing Title
ELECTRICAL POWER SECOND FLOOR PLAN - PHASE 1

Drawing No.
E3.2

Sheet No.

MOSSWOOD COMMUNITY CENTER - PHASE 1
LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:41:12 PM

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO ROUGH-IN .

B. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

C. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES (CEC 210.4(B), 240.15(B)(1)). THE UNGROUNDED AND GROUNDED CIRCUIT CONDUCTORS OR EACH MULTIWIRE BRANCH CIRCUIT SHALL BE IDENTIFIED OR GROUPED BY USING WIRE MARKERS, CABLE TIES, OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE ENCLOSURE (CEC 210.4(D))

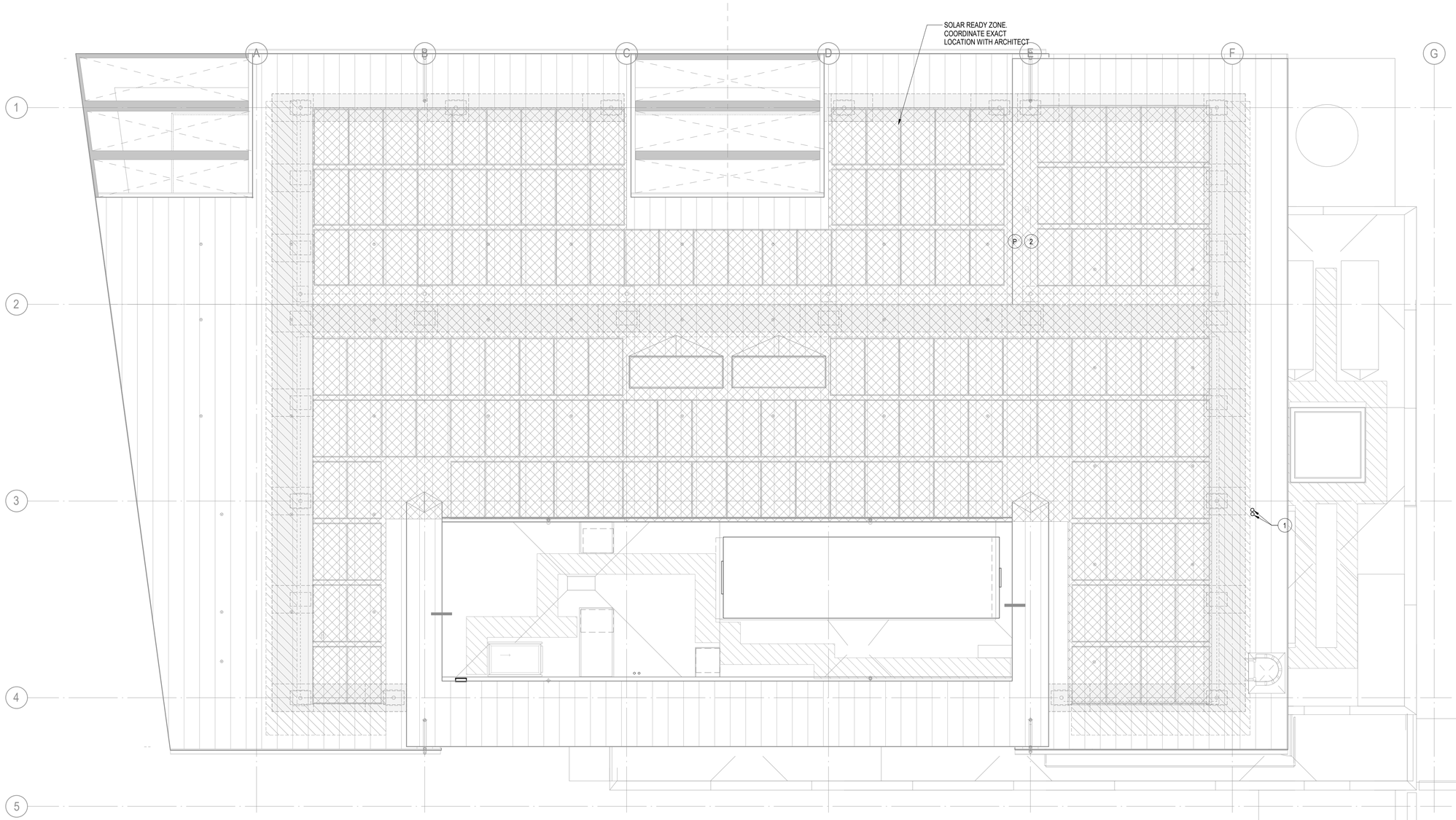
D. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE CONNECTION BETWEEN THE EQUIPMENT AND ITS DISCONNECT SWITCH.

E. COORDINATE WITH ARCHITECT FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES, ELECTRICAL DEVICES, ETC.

REFERENCE NOTES

1. STUB UP (1)4" EMT CONDUIT FOR PV POWER AND (1) 1" EMT CONDUIT TO PV AC DISCONNECT IN MAIN ELECTRICAL ROOM ON LEVEL 1. SEE ARCHITECTURAL DETAILS FOR WATERPROOFING AT ROOF PENETRATION.

2. PHOTOCELL ORIENT NORTH. COORDINATE EXACT LOCATION WITH ARCHITEC PRIOR TO ROUGH IN. REFER TO DETAIL 2/E6.3 FOR ADDITIONAL INFORMATION.



1 E3.3 ELECTRICAL POWER - ROOF LEVEL PLAN

SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title

ELECTRICAL POWER ROOF PLAN - PHASE 1

Drawing No.

E3.3

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:41:20 PM

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO ROUGH-IN .

B. ALL ELECTRICAL ROOMS DOORS ARE EGRESS DOORS AND DOOR SHALL SWING OUT PER NEC. PANIC HARDWARE IS REQUIRED.

C. NO PIPING, DUCT OR EQUIPMENT IS ALLOWED TO PASS THROUGH ELECTRICAL SPACES.

D. BOTH NORMAL AND EMERGENCY LIGHTING WILL BE PROVIDED IN ALL ELECTRICAL ROOM.

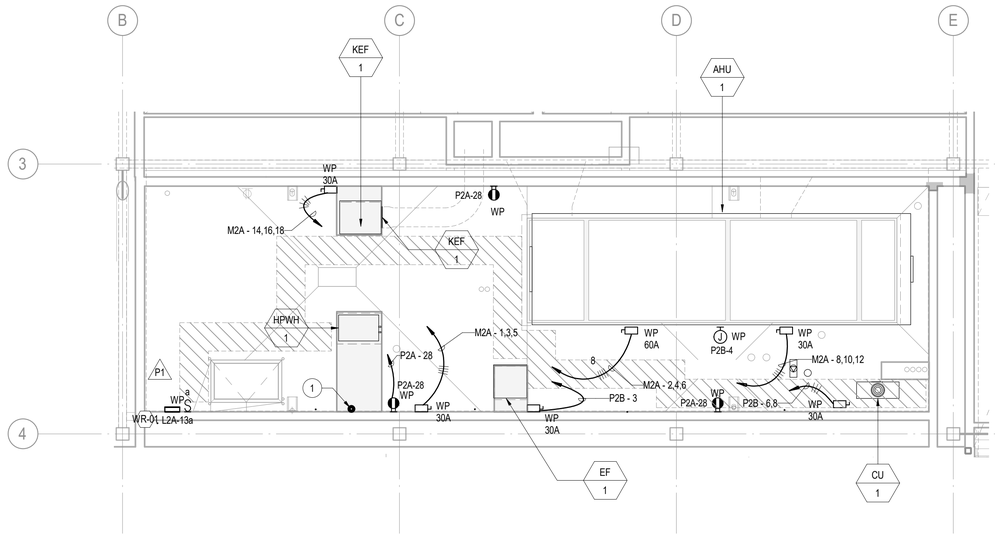
E. ELECTRICAL ROOM DOORS SHALL BE MINIUM 8' CLEAR HEIGHT TO ALLOW FOR FLOOR STANDING EQUIPMENT TO BE REMOVED.

F. PROVIDE MINIMUM 12' CLEAR SPACE IN ALL ELECTRICAL ROOMS. CEILING IN NOT REQUIRED AND ROOM CAN BE EXPOSED TO STRUCTURE ABOVE.

G. WHERE SERVICE RACEWAY ENTERS A BUILDING FROM AN UNDERGROUND DISTRIBUTION SYSTEM, IT SHALL BE SEALED IN ACCORDANCE WITH 300.5(G). SPARE OR UNUSED RACEWAY SHALL ALSO BE SEALED. SEALANTS SHALL BE IDENTIFIED FOR USE WITH THE CABLE INSULATION, SHIELD OR OTHER COMPONENTS [ART230.8& CEC]

REFERENCE NOTES

1. PROVIDE 2 " CONDUIT AND STUB INTO ELECTRICAL ROOM 205 FOR CONNECTION TO FUTURE MECHANICAL EQUIPMENT. LABEL BOTH ENDS OF CONDUIT WITH THE LOCATION OF THE OPPOSITE END. VERIFY LOCATION IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.



1 / E3.4 UPPER MECHANICAL ROOF
SCALE: 3/16" = 1'-0"

8 4 0 8

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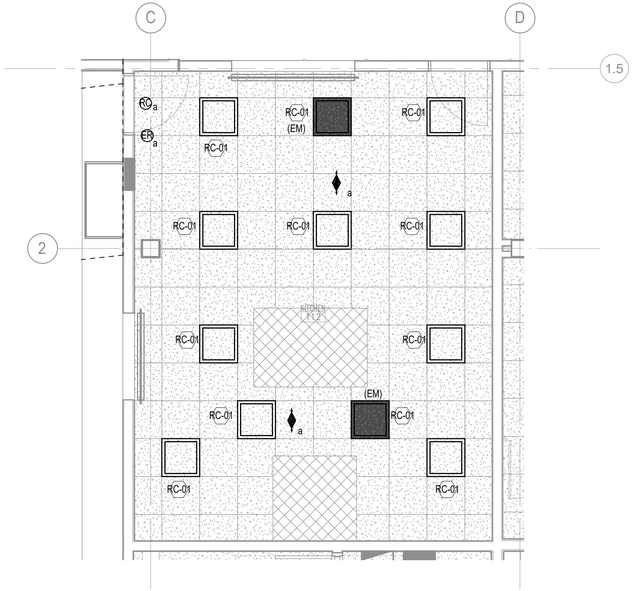
Drawing Title
ELECTRICAL POWER MECHANICAL ROOF - PHASE 1

Drawing No.
E3.4

Sheet No.



5 ELECTRICAL LIGHTING - KITCHEN
1/4" = 1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS. VERIFY EXACT LOCATION, LAYOUT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO ROUGH-IN .

B. NO PIPING, DUCT OR EQUIPMENT IS ALLOWED TO PASS THROUGH ELECTRICAL SPACES.

C. BOTH NORMAL AND EMERGENCY LIGHTING WILL BE PROVIDED IN ALL ELECTRICAL ROOM.

D. ELECTRICAL ROOM DOORS SHALL BE MINIUM 8' CLEAR HEIGHT TO ALLOW FOR FLOOR STANDING EQUIPMENT TO BE REMOVED.

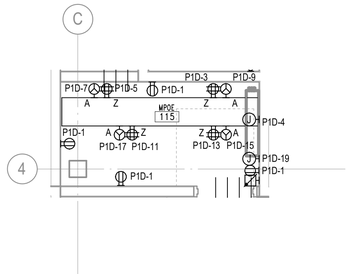
E. WHERE SERVICE RACEWAY ENTERS A BUILDING FROM AN UNDERGROUND DISTRIBUTION SYSTEM, IT SHALL BE SEALED IN ACCORDANCE WITH 300.5(G). SPARE OR UNUSED RACEWAY SHALL ALSO BE SEALED. SEALANTS SHALL BE IDENTIFIED FOR USE WITH THE CABLE INSULATION, SHIELD OR OTHER COMPONENTS [ART230.8& CEC].

F. REFER TO FOODSERVOCE PLANS FOR ALL ITEMS, LOCATIONS, DEVICES AND EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND JUNCTION BOXES. SEE EQUIPMENT SCHEDULE FOR ELECTRICAL REQUIREMENTS SHEET FS.4.

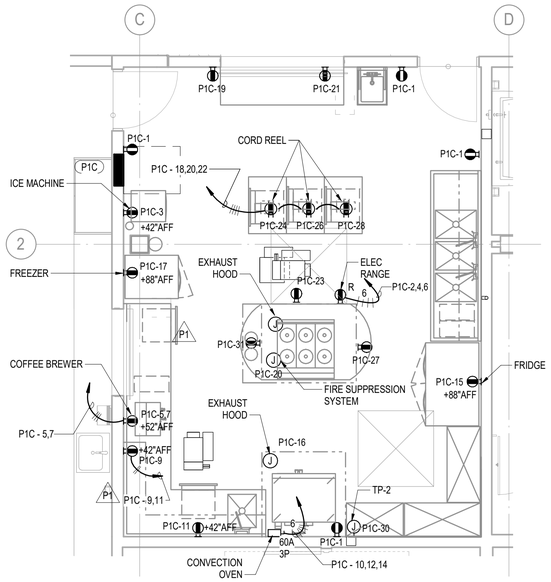
G. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES (CEC 210.4(B), 240.15(B)(1)). THE UNGROUNDED AND GROUNDED CIRCUIT CONDUCTORS OR EACH MULTIWIRE BRANCH CIRCUIT SHALL BE IDENTIFIED OR GROUPED BY USING WIRE MARKERS, CABLE TIES, OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE ENCLOSURE (CEC 210.4(D)).

REFERENCE NOTES

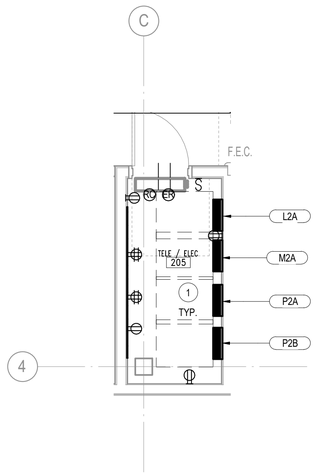
1. DASHED LINES INDICATE MINIMUM WORKING SPACES REQUIRED FOR EQUIPMENT.
2. PROVIDE 4" HOUSEKEEPING PAD FOR FLOOR MOUNTED ELECTRICAL EQUIPMENT. COORDINATE REQUIREMENTS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
3. PROVIDE DOOR EQUIPPED WITH PANIC HARDWARE FOR ELECTRICAL ROOM PER CEC 110.26(C)(3).
4. MOUNT RECEPTACLES TO AV/IT EQUIPMENT RACK. REFER TO TECHNOLOGY DRAWINGS FOR EXACT HEIGHT AND LOCATION REQUIREMENTS OF RECEPTACLES.



3 ENLARGED PLAN MPOE ROOM - FIRST FLOOR
1/4" = 1'-0"



4 ELECTRICAL POWER - KITCHEN
1/4" = 1'-0"



2 ENLARGED PLAN ELECTRICAL ROOM - SECOND FLOOR
1/4" = 1'-0"

1 ENLARGED PLAN ELECTRICAL ROOM - FIRST FLOOR
1/4" = 1'-0"

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Drawing Title
ELECTRICAL ENLARGED PLANS

Drawing No.
E4.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:41:31 PM

TRANSFORMER GROUND

KVA	CONDUIT	GROUND
15	(1)3/4	1#8
30	(1)3/4	1#6
45	(1)3/4	1#6
75	(1)3/4	1#2
112.5	(1)1	1#1/0
150	(1)1	1#1/0
225	(1)1	1#2/0
300	(1)1	1#3/0
500	(1)1	1#4/0

ELECTRICAL FEEDER TABLE

3 WIRE + GROUND						4 WIRE + GROUND					
FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GROUND	ISOLATED GROUND	FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GROUND	ISOLATED GROUND
F320	(1)3/4	3#12	-	1#12	-	F420	(1)3/4	3#12	1#12	1#12	-
F330	(1)3/4	3#10	-	1#10	-	F430	(1)3/4	3#10	1#10	1#10	-
F340	(1)1	3#8	-	1#10	-	F440	(1)1	3#8	1#8	1#10	-
F350	(1)1	3#6	-	1#8	-	F450	(1)1 1/4	3#6	1#6	1#8	-
F370	(1)1 1/4	3#4	-	1#8	-	F470	(1) 1 1/4	3#4	1#4	1#8	-
F390	(1) 1 1/4	3#2	-	1#8	-	F490	(1) 1 1/2	3#2	1#2	1#8	-
F3125	(1) 1 1/2	3#1	-	1#6	-	F4125	(1) 2	3#1	1#1	1#6	-
F3150	(1) 1 1/2	3#1/0	-	1#6	-	F4150	(1)2	3#1/0	1#1/0	1#6	-
F3175	(1) 2	3#2/0	-	1#6	-	F4175	(1)2	3#2/0	1#2/0	1#6	-
F3200	(1)2	3#3/0	-	1#6	-	F4200	(1)2 1/2	3#3/0	1#3/0	1#6	-
F3225	(1)2	3#4/0	-	1#4	-	F4225	(1)2 1/2	3#4/0	1#4/0	1#4	-
F3250	(1)2 1/2	3#250	-	1#4	-	F4250	(1)3	3#250	1#250	1#4	-
F3300	(1)3	3#350	-	1#4	-	F4300	(1)3	3#350	1#350	1#4	-
F3350	(1)4	3#500	-	1#2	-	F4350	(1)4	3#500	1#500	1#2	-
F3400	(2)2	6#3/0	-	2#2	-	F4400	(2)2 1/2	6#3/0	2#3/0	2#2	-
F3450	(2)2 1/2	6#4/0	-	2#1	-	F4450	(2)2 1/2	6#4/0	2#4/0	2#1	-
F3500	(2)2 1/2	6#250	-	2#1	-	F4500	(2)3	6#250	2#250	2#1	-
F3600	(2)3	6#350	-	2#1	-	F4600	(2)3	6#350	2#350	2#1	-
F3700	(2)3	6#500	-	2#1/0	-	F4700	(2)4	6#500	2#500	2#1/0	-
F3800	(3)3	9#350	-	3#1/0	-	F4800	(3)3	9#350	3#350	3#1/0	-
F31000	(3)4	9#500	-	3#2/0	-	F41000	(3)4	9#500	3#500	3#2/0	-
F31200	(4)3	12#350	-	4#3/0	-	F41200	(4)3	12#350	4#350	4#3/0	-
F31500	(5)3	15#350	-	4#4/0	-	F41500	(5)3	15#350	5#350	4#4/0	-
F31600	(5)3	15#500	-	5#4/0	-	F41600	(5)4	15#500	5#500	5#4/0	-
F32000	(6)4	18#500	-	6#250	-	F42000	(6)4	18#500	6#500	6#250	-

2 WIRE + GROUND						GROUND					
FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GROUND	ISOLATED GROUND	FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GROUND	ISOLATED GROUND
F220	(1)3/4	2#12	-	1#12	-	FG12	(1)3/4	-	-	1#12	-
F230	(1)3/4	2#10	-	1#10	-	FG10	(1)3/4	-	-	1#10	-
F240	(1)3/4	2#8	-	1#10	-	-	-	-	-	-	-
F250	(1)1	2#6	-	1#8	-	FG08	(1)3/4	-	-	1#8	-
F270	(1)1	2#4	-	1#8	-	-	-	-	-	-	-
F290	(1)1	2#2	-	1#8	-	-	-	-	-	-	-
F2125	(1)1 1/4	2#1	-	1#6	-	FG06	(1)3/4	-	-	1#6	-
F2150	(1)1 1/4	2#1/0	-	1#6	-	-	-	-	-	-	-
F2175	(1) 1 1/2	2#2/0	-	1#6	-	-	-	-	-	-	-
F2200	(1) 1 1/2	2#3/0	-	1#6	-	-	-	-	-	-	-
F2225	(1) 2	2#4/0	-	1#4	-	FG04	(1)1	-	-	1#4	-
F2250	(1)2	2#250	-	1#4	-	-	-	-	-	-	-
F2300	(1)2	2#350	-	1#4	-	-	-	-	-	-	-
F2350	(1)2 1/2	2#400	-	1#2	-	FG02	(1)1	-	-	1#2	-
F2400	(2)1 1/2	4#3/0	-	2#2	-	-	-	-	-	-	-
F2450	(2)2	4#4/0	-	2#1	-	FG01	(1)1	-	-	1#1	-
F2500	(2)2	4#250	-	2#1	-	-	-	-	-	-	-
F2600	(2)2 1/2	4#350	-	2#1	-	-	-	-	-	-	-
F2700	(2)3	4#500	-	2#1/0	-	FG1/0	(1)1	-	-	1#1/0	-
F2800	(3)2 1/2	6#350	-	3#1/0	-	-	-	-	-	-	-
F21000	(3)3	6#500	-	3#2/0	-	FG2/0	(1)1	-	-	1#2/0	-
F21200	(4)3	8#350	-	4#3/0	-	FG3/0	(1)1	-	-	1#3/0	-
F21500	(5)2 1/2	10#350	-	4#4/0	-	FG4/0	(1)1	-	-	1#4/0	-
F21600	(5)3	10#500	-	5#4/0	-	-	-	-	-	-	-
F22000	(6)3 1/2	12#500	-	6#250	-	FG250	(1)1 1/4	-	-	1#250	-

NOTES:

A. CONDUIT SIZES ARE MINIMUM. USE 1" COUNT MINIMUM FOR UNDERGROUND WORK.

B. ABOVE 86 DEG. F (30 DEG. C) AMBIENT INCREASE WIRE SIZE PER NATIONAL ELECTRICAL CODE (NEC).

C. DERATE WIRE SIZE PER NEC FOR:
* MORE THAN (3) CURRENT-CARRYING WIRES IN CONDUIT
* CONDUIT FILL

GENERAL NOTES

A. ALL LUGS SIZED FOR FEEDERS. REFER TO SINGLE LINE DIAGRAM .

P1 B. ALL FEEDER CONDUCTORS ARE COPPER (CU).

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Designed by: AM
Checked by: AM

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P1	03/17/2022	PERMIT REVISIONS
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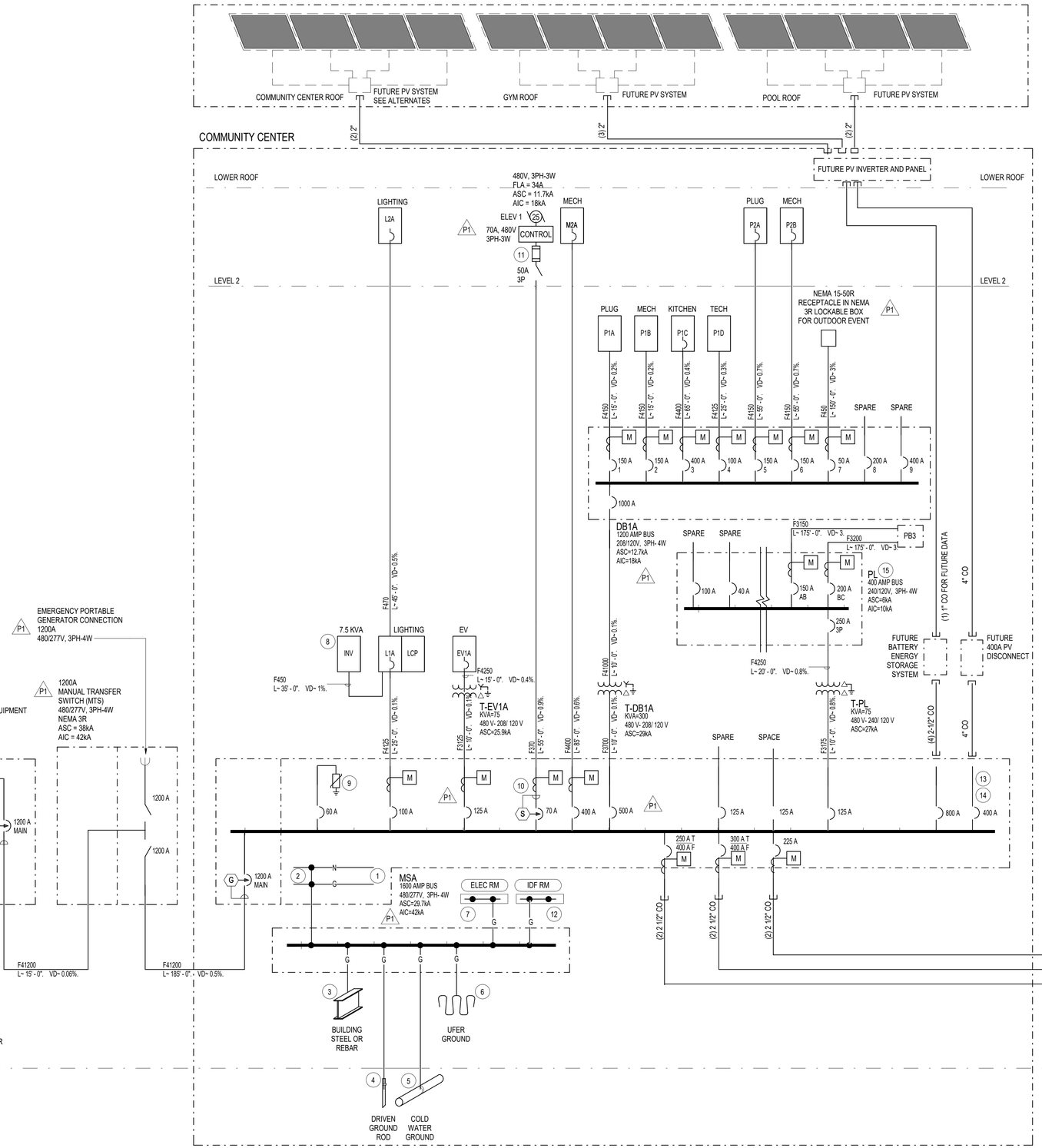
Drawing Title

ELECTRICAL SINGLE LINE DIAGRAM FEEDER SCHEDULE

Drawing No.
E5.0
Sheet No.

LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:41:36 PM



GENERAL NOTES

A. CONDUIT AND FEEDER SIZES ARE MINIMUM. USE 1" CONDUIT MINIMUM FOR UNDERGROUND INSTALLATIONS.

B. DERATE WIRE SIZE PER NEC FOR NUMBER OF CURRENT CARRYING WIRES AND FOR AMBIENT TEMPERATURE OF 86°F

C. FEEDERS SHOWN ARE COPPER CONDUCTORS WITH THHN/THWN INSULATION TYPE UNLESS NOTED OTHERWISE.

D. FEEDER LENGTH AND VOLTAGE DROP CALCULATIONS ARE FOR ESTIMATING VOLTAGE DROP AND SHORT CIRCUIT COORDINATION PURPOSE ONLY. CONTRACTOR SHALL USE ACTUAL FEEDER LENGTHS TO CALCULATE ACTUAL VOLTAGE DROP AND SHORT CIRCUIT VALUES.

E. THE SHORT CIRCUIT WITHSTAND/INTERRUPTING RATING OF SWITCHBOARDS, PANELS, AUTOMATIC TRANSFER SWITCHES, CIRCUITS BREAKERS AND FUSES ARE BASED UPON ESTIMATED FEEDER LENGTHS AND GENERIC EQUIPMENT VALUES. ACTUAL SHORT CIRCUIT VALUES SHALL BE BASED ON THE CONTRACTOR'S FAULT AND COORDINATION STUDY. ALL EQUIPMENT RATINGS SHALL BE MINIMUM 10% ABOVE CONTRACTOR CALCULATED VALUES. NOTIFY ARCHITECT IF CALCULATED VALUES EXCEED INTERRUPTING CAPACITY AND MAKE RECOMMENDATIONS FOR CORRECTING DEFICIENCIES. DO NOT RELEASE ELECTRICAL EQUIPMENT FOR FABRICATION PRIOR TO RECEIPT OF APPROVED SHORT CIRCUIT STUDY.

F. THE CONTRACTOR SHALL PROVIDE AND INSTALL PERMANENTLY ATTACHED ARC FLASH HAZARD LABELS FOR ALL POWER DISTRIBUTION EQUIPMENT (CEC 110.16).LABELS SHALL BE PROFESSIONALLY PRINTED AND INCLUDE THE FOLLOWING INFORMATION:
a. NOMINAL SYSTEM VOLTAGE
b. EXISTENCE OF ARC FLASH HAZARD, FLASH PROTECTION BOUNDARY.
c. PPE CLOTHING REQUIRED.
d. LIMITED SHOCK APPROACH BOUNDARY.
e. RESTRICTED SHOCK APPROACH BOUNDARY.

G. ALL CIRCUIT BREAKER TRIP RATING OR SETTINGS 1200 AMPERES AND ABOVE SHALL BE EQUIPPED WITH REDUCED ENERGY LET THROUGH OR EQUAL ENERGY REDUCING ACTIVE ARC FLASH MITIGATION SYSTEM, PER CEC 240.87.

(##) SHEET NOTES

1. NEUTRAL AND GROUND BUSES.
2. NEUTRAL AND GROUND BUS LINK.
3. PROVIDE EXOTHERMIC CONNECTION TO BUILDING STEEL COLUMN OR REBAR.
4. (P1) PROVIDE CONNECTION TO DRIVEN GROUND ROD(S) AT 20 FEET ON CENTER APART. PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO CONFORM WITH SPECIFIED RESISTANCE LEVELS. GROUND RODS SHALL BE BONDED TOGETHER.
5. PROVIDE CONNECTION TO METALLIC COLD WATER PIPE 2 1/2"OR LARGER. LOCATE CONNECTION PER NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS WITHIN 6 FOOT OF ENTRANCE TO BUILDING AND MINIMUM 10 FOOT LENGTH OF PIPE IN EARTH.
6. UFER GROUND. PROVIDE MINIMUM 50 FEET OF BARE COPPER CABLE EMBEDDED IN BUILDING FOUNDATION IN CONTACT WITH EARTH AND BELOW WATERPROOF MEMBRANE.
7. UTILITY GROUND BUS LOCATED IN ALL ELECTRICAL ROOMS AND CLOSETS.
8. INVERTER TO PROVIDE A MINIMUM OF 90 MINUTES BATTERY RUN TIME AT FULL LOAD. PROVIDE MYERS 1-I-07-S-BD2012-2YW INVERTER WITH INTERNAL MAINTENANCE BYPASS. INVERTER INPUT AND OUTPUT BREAKERS SHALL BE RATED MINIMUM OF 18 KAIC.
9. SURGE PROTECTION DEVICE BREAKER CALCULATION SHALL BE DONE BY MANUFACTURER AND INTEGRATED BY MANUFACTURER.
10. SHUNT TRIP TO BE ACTIVATED BY THE EQUIPMENT ROOM HEAT DETECTOR OR SPRINKLER HEAD FUSE RATING. AUXILIARY CONTACT TO BE PROVIDED IF NEEDED BY MANUFACTURER.
11. ELEVATOR OVER CURRENT PROTECTION, FEEDER SIZES AND DISCONNECT/FUSE SIZES MUST BE REVIEWED AFTER ELEVATOR HAS BEEN SELECTED. PRIOR TO RELEASE OF SWITCHGEAR COORDINATE WITH ELEVATOR SUPPLIER AND ENGINEER FOR CORRECT FEEDER AND PROTECTION DEVICE SIZES. FUSE SHORT CIRCUIT RATING SHALL BE MINIMUM 20000A.
12. TECHNICAL GROUND BUS LOCATED IN ALL IDF, MDF AND AV ROOMS OR CLOSETS.
13. PV BREAKER SHALL BE PLACED OPPOSITE END OF MAIN BREAKER PER CEC. PROVIDE PLACARD TO READ 'WARNING PHOTOVOLTAIC SYSTEM DUAL POWER SUPPLY. ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE SIDE AND LOAD SIDES MAY BE ENERGIZED'.
14. CIRCUIT BREAKER SHALL BE SUITABLE FOR BACKFEED AND SHALL BE INSTALLED PER CEC AND MANUFACTURER'S SPECIFICATIONS.
15. NEW 24 CIRCUIT PANEL BOARD. FEEDING THE EXISTING IRRIGATION CONTROLLER LOCATED IN MOSSHOUSE AND SITE LIGHTING.
16. AVAILABLE SHORT CIRCUIT CURRENT CALCULATED ASSUMING INFINITE FAULT CURRENT ON THE PRIMARY OF THE UTILITY TRANSFORMER. UTILITY TRANSFORMER IS ASSUMED TO BE RATED AT 1000 KVA WITH 3% IMPEDANCE.

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Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title

ELECTRICAL SINGLE LINE DIAGRAM

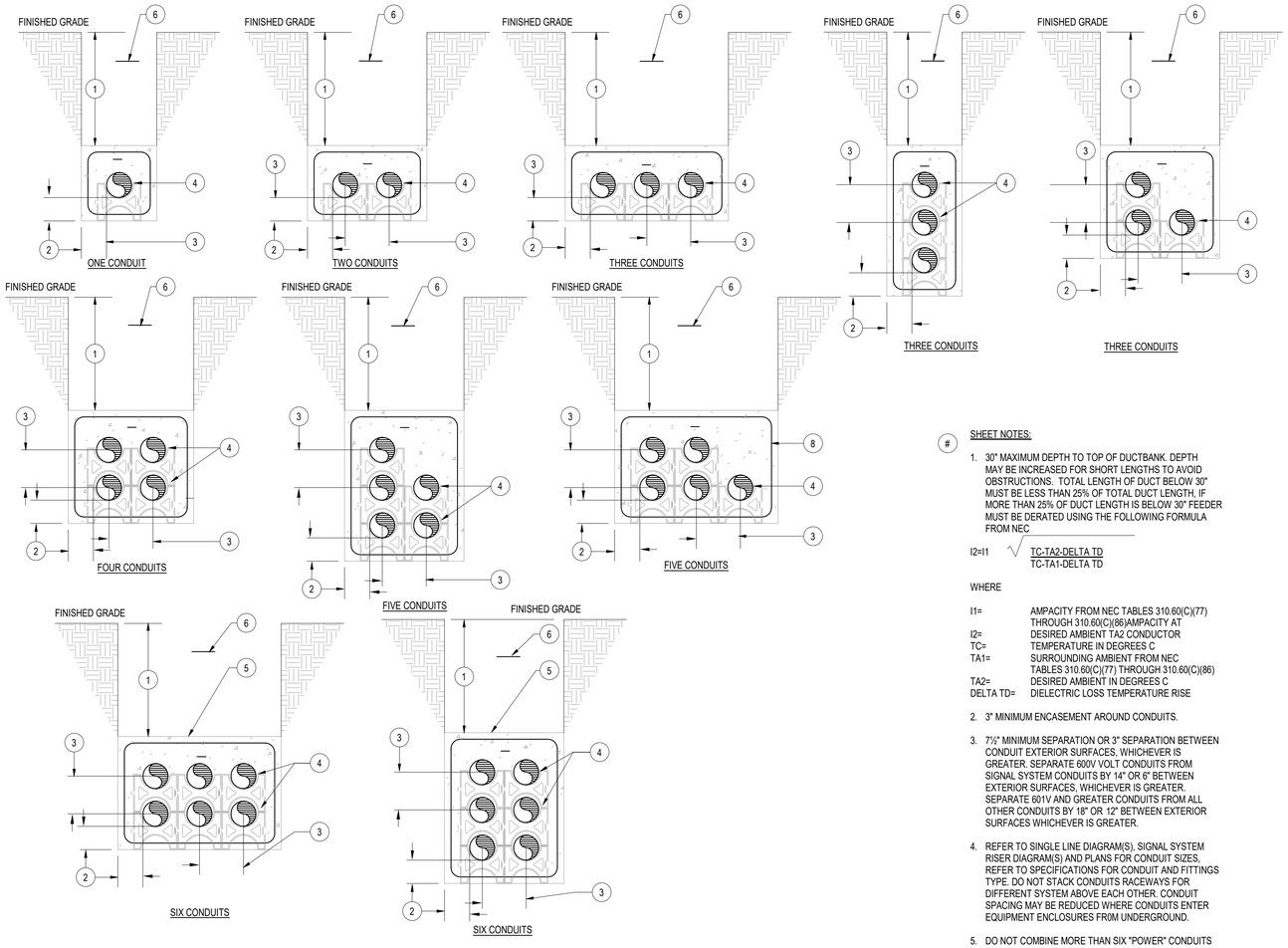
Drawing No.

E5.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:41:40 PM



4 TYPICAL DUCT BANK SECTIONS
N.T.S.

(#) SHEET NOTES:

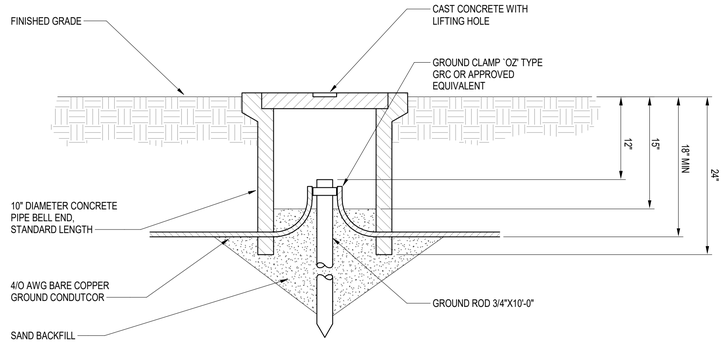
1. 30" MAXIMUM DEPTH TO TOP OF DUCTBANK. DEPTH MAY BE INCREASED FOR SHORT LENGTHS TO AVOID OBSTRUCTIONS. TOTAL LENGTH OF DUCT BELOW 30" MUST BE LESS THAN 25% OF TOTAL DUCT LENGTH, IF MORE THAN 25% OF DUCT LENGTH IS BELOW 30" FEEDER MUST BE DERATED USING THE FOLLOWING FORMULA FROM NEC

$$I2 = I1 \sqrt{\frac{TC - TA2 - DELTA\ TD}{TC - TA1 - DELTA\ TD}}$$

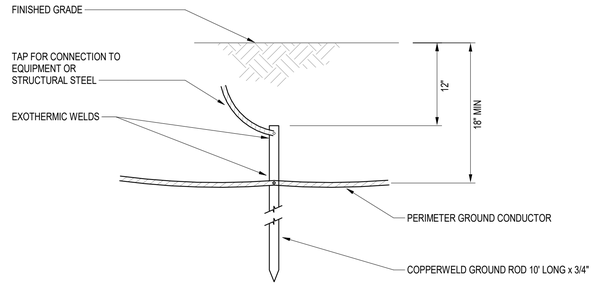
WHERE

I1=	AMPACITY FROM NEC TABLES 310.60(C)(77) THROUGH 310.60(C)(86)AMPACITY AT
I2=	DESIRED AMBIENT TA2 CONDUCTOR
TC=	TEMPERATURE IN DEGREES C
TA1=	SURROUNDING AMBIENT FROM NEC TABLES 310.60(C)(77) THROUGH 310.60(C)(86)
TA2=	DESIRED AMBIENT IN DEGREES C
DELTA TD=	DIELECTRIC LOSS TEMPERATURE RISE

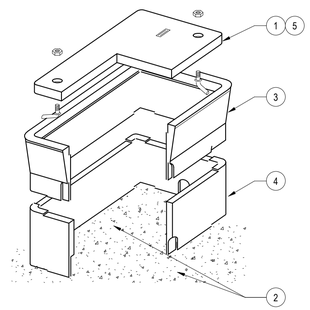
2. 3" MINIMUM ENCASEMENT AROUND CONDUITS.
3. 7½" MINIMUM SEPARATION OR 3" SEPARATION BETWEEN CONDUIT EXTERIOR SURFACES, WHICHEVER IS GREATER. SEPARATE 600V VOLT CONDUITS FROM SIGNAL SYSTEM CONDUITS BY 14" OR 6" BETWEEN EXTERIOR SURFACES, WHICHEVER IS GREATER. SEPARATE 601V AND GREATER CONDUITS FROM ALL OTHER CONDUITS BY 18" OR 12" BETWEEN EXTERIOR SURFACES WHICHEVER IS GREATER.
4. REFER TO SINGLE LINE DIAGRAM(S), SIGNAL SYSTEM RISER DIAGRAM(S) AND PLANS FOR CONDUIT SIZES. REFER TO SPECIFICATIONS FOR CONDUIT AND FITTINGS TYPE. DO NOT STACK CONDUITS RACEWAYS FOR DIFFERENT SYSTEM ABOVE EACH OTHER. CONDUIT SPACING MAY BE REDUCED WHERE CONDUITS ENTER EQUIPMENT ENCLOSURES FROM UNDERGROUND.
5. DO NOT COMBINE MORE THAN SIX "POWER" CONDUITS IN ONE TRENCH UNLESS ALL CONDUITS HAVE EXTERIOR SURFACES WITHIN 4" OF CONCRETE ENCASEMENT PERIMETER.
6. UNDERGROUND WARNING TAPE LOCATED DIRECTLY ABOVE DUCT BANK AND 6"-8" BELOW FINISHED GRADE.



3 GROUND ROD TEST WELL INSTALLATION
N.T.S.



2 BURIED GROUND ROD
N.T.S.



(#) SHEET NOTES:

1. GALVANIZED STEEL FRAME AND TWO PIECE BOLT DOWN TRAFFIC COVER PLATE.
2. PROVIDE 12" MINIMUM DEPTH OF CRUSHED ROCK OR PEA GRAVEL BELOW BOX FOR DRAINAGE.
3. PRECAST CONCRETE BOTTOMLESS PULL BOX. MINIMUM OUTSIDE DIMENSIONS 13"x19"x12" DEEP.
4. PROVIDE EXTENSIONS AS REQUIRED TO MEET FIELD CONDITIONS.
5. IDENTIFICATIONS PER SPECIFICATIONS.

1 TYPICAL PRECAST 13"X19" JUNCTION BOX
N.T.S.

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Drawing Title
ELECTRICAL DETAILS

Drawing No.
E6.1
Sheet No.

LMSA PROJECT NUMBER: 1902
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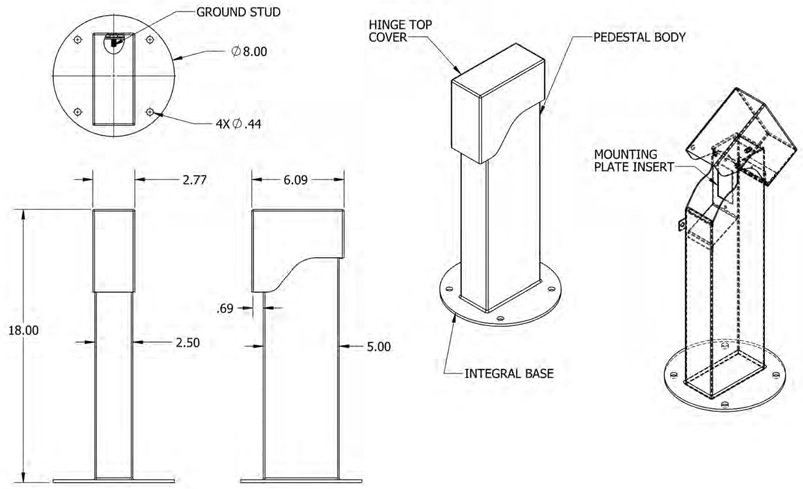
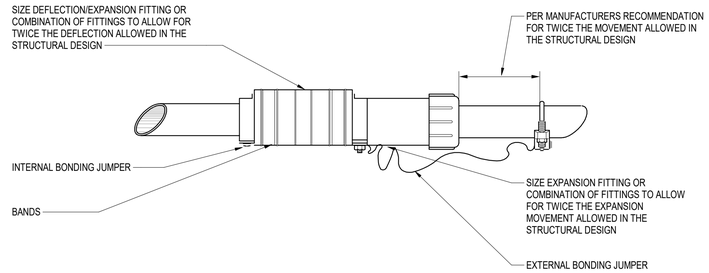
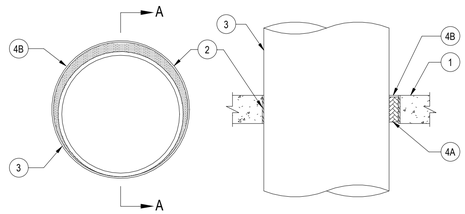


5 NEMA 3R LOCKABLE ENCLOSURE PEDOC HINGE TOP OUTLET BOX 1P18HT
N.T.S.



2 COMBINATION EXPANSION/DEFLECTION FITTING
N.T.S.



SYSTEM NO. C-AJ-1226

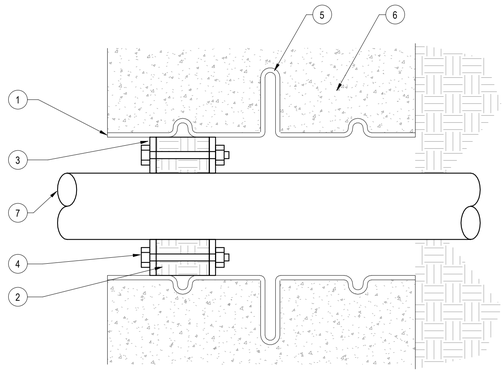
ANSI/UL1479 (ASTM E814)
F RATING — 3 HR
T RATING — 0 HR
L RATING AT AMBIENT — LESS THAN 1 CFM/SQ FT
L RATING AT 400 F — 4 CFM/SQ FT

SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M³) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 32 IN.
2. METALLIC SLEEVE — (OPTIONAL) NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. (76 MM) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.
3. THROUGH-PENETRANT — ONE METALLIC PIPE, TUBE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. (48 MM). PENETRANT MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PENETRANTS MAY BE USED:
   A. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT.
   B. CONDUIT — NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
4. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL — MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SLEEVE OR WITH BOTH SURFACES OF WALL OR SLEEVE. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PENETRANT AND CONCRETE OR SLEEVE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE OR SLEEVE/ PIPE PENETRANT INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

4 CONDUIT THROUGH CONCRETE OR MASONRY
12" = 1'-0"



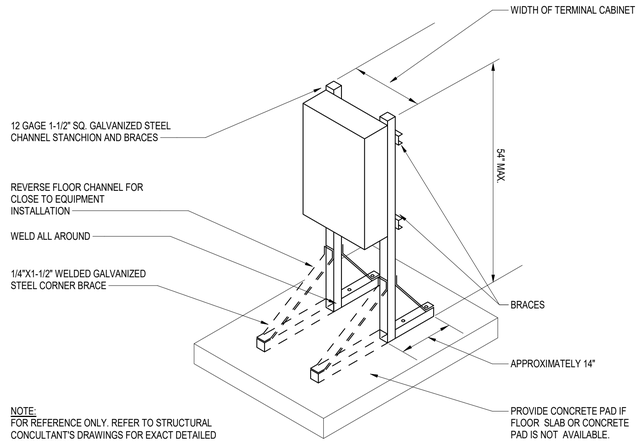
NOTES:

1. AMANUFACTURER - LINK-SEAL CAST-IN-PLACE CENTURY LINE SEAL OR EQUAL.
2. REFER TO CONSTRUCTION DOCUMENTS FOR ELECTRICAL POWER AND LOW VOLTAGE SYSTEMS TO DETERMINE QUANTITY AND SIZE OF LOW VOLTAGE AND POWER RACEWAYS.
3. COORDINATE PENETRATION LOCATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO ROUGH-IN.

(#) SHEET NOTES:

1. MOLDED HIGH DENSITY POLYETHYLENE SLEEVE SIZED PER MANUFACTURERS RECOMMENDATIONS FOR CONDUIT DIAMETER. SLEEVE RATED FOR MNIMUM 20 PSIG.
2. ELASTOMERIC SEAL.
3. PRESSURE PLATE
4. BOLT
5. ANCHOR COLLAR/WATER STOP.
6. CAST IN PLACE OR SHOTCRETE WALL. REFER TO CONSTRUCTION DOCUMENTS FOR TYPE AND THICKNESS OF WALL.
7. ELECTRICAL SYSTEM CONDUIT. REFER TO CONSTRUCTION DOCUMENTS FOR SIZE, TYPE, LOCATION, AND QUANTITY.

3 BELOW GRADE CONDUIT PENETRATION
N.T.S.



NOTE:
FOR REFERENCE ONLY. REFER TO STRUCTURAL CONCULTANT'S DRAWINGS FOR EXACT DETAILED INFORMATION.

1 FREESTANDING CABINET SUPPORT
N.T.S.

CITY OF OAKLAND
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250 FRANK H. OGAWA PLAZA
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MOSSWOOD COMMUNITY CENTER - PHASE 1

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Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

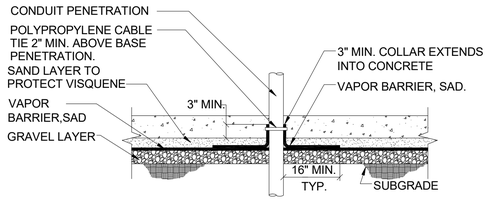
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
ELECTRICAL DETAILS

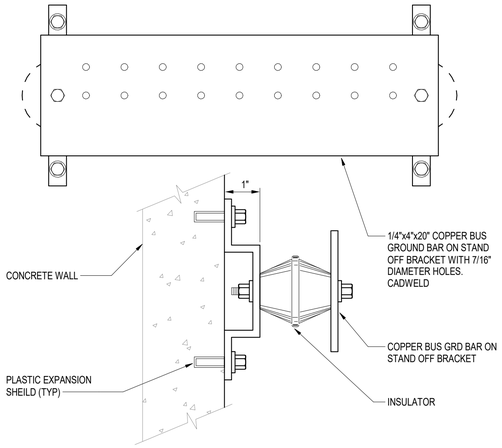
Drawing No.
E6.2

Sheet No.

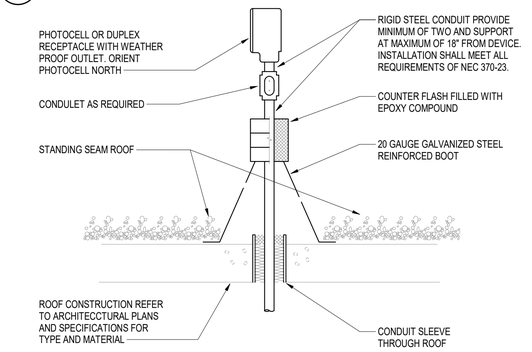
PLOT DATE: 7/14/2022 3:41:50 PM
LMSA PROJECT NUMBER: 1902



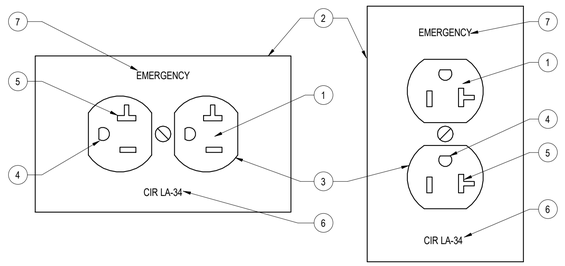
7 CONDUIT PENETRATION
N.T.S.



3 TYPICAL GROUND BUS
N.T.S.



2 ROOF PENETRATION FOR PHOTOCELL
N.T.S.



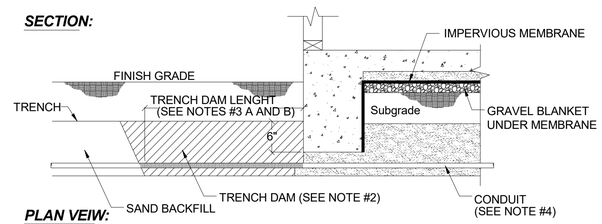
HORIZONTAL MOUNTING VERTICAL MOUNTING

(#) SHEET NOTES:

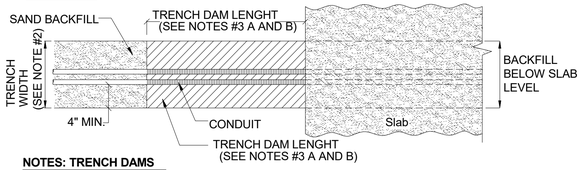
1. REFER TO SPECIFICATIONS FOR DEVICE STYLE AND COLOR.
2. REFER TO SPECIFICATIONS FOR COVERPLATE MATERIAL AND COLOR.
3. REFER TO CONSTRUCTION DOCUMENTS FOR DEVICE TYPE.
4. GROUND CONDUCTOR TERMINAL. GROUND SHALL BE MOUNTED IN THE UP POSITION FOR VERTICALLY MOUNTED DEVICES AND TO THE LEFT FOR HORIZONTALLY MOUNTED DEVICES.
5. NEUTRAL CONDUCTOR TERMINAL.
6. PROVIDE CIRCUIT INFORMATION AT EACH DEVICE IN MINIMUM 1/8" HIGH LETTERS. FOR SPECIAL RECEPTACLES INCLUDE VOLTAGE AND AMP RATING FOR DEVICE.
7. IDENTIFY ALL DEVICES CONNECTED TO EMERGENCY POWER SYSTEMS WITH 1/8" HIGH LETTERS. REFER TO SPECIFICATIONS FOR ADDITIONAL IDENTIFICATION REQUIREMENTS.

1 TYPICAL ELECTRICAL DEVICE IDENTIFICATION REQUIREMENTS
N.T.S.

SECTION:



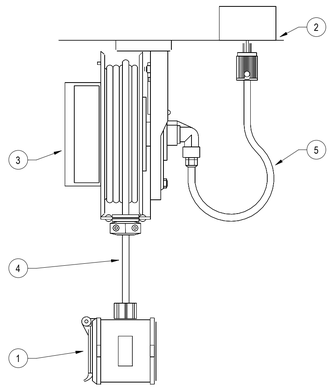
PLAN VEIW:



NOTES: TRENCH DAMS

1. ALL TRENCH DAMS SHALL BE INSTALLED IN TRENCHES CONTAINING PIPING AND CONDUIT THAT CONNECTS DIRECTLY FROM THE UTILITY LINES IN THE STREET.
2. THE WIDTH OF A TRENCH DAM SHALL BE ONE HALF THE LENGTH.
3. TRENCH DAMS SHALL BE CONSTRUCTED OF ONE OF THE FOLLOWING:
   a. BENTONITE CEMENT SLURRY THREE FEET LONG: A MIXTURE OF 4% TYPE II CEMENT, AND 2% POWDERED BENTONITE.
   b. COMPACTED NATIVE SOILS BACKFILL FIVE FEET LONG: NATIVE SOILS SHALL BE COMPACTED AT LEAST 90% RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D-1557 TESTING PROCEDURES.
   c. CONCRETE MIXES OTHER THAN BENTONITE CEMENT SLURRY MAY BE USED PROVIDED CONDUIT OR PIPING IS WRAPPED WITH HIGH DENSITY PVC FOAM TAPE, CLOSED CELLS, ADHESIVE BACKED, 1/4" THICK BY ½" WIDE SHALL BE APPLIED TO CLEAR SURFACE WITH ENDS BUTTED TOGETHER AT MOST VISIBLE LOCATIONS IN TRENCH DAM.
4. PIPING AND CONDUIT SHALL BE PROTECTED FROM CORROSION AND STRUCTURAL SETTLEMENT AS FOLLOWS:
   a. TAPE SHALL BE APPLIED ON CONDUIT AND PIPING ENCASED IN CEMENT SLURRY OR CONCRETE.
   b. TAPE SHALL BE PS-37-90, BLACK PLASTIC PVC OR PE PRESSURE-SENSITIVE CORROSION PREVENTIVE TAPE.

6 TRENCH DAM
N.T.S.



REFERENCED NOTES

1. PORTABLE OUTLET BOX WITH LIFT COVER AND 20 AMP, 120 VOLT DUPLEX RECEPTACLE.
2. CEILING MOUNTED RECEPTACLE LOCATED WITHIN 18" OF CORD REEL.
3. INDUSTRIAL CEILING MOUNTED CORD REEL. CORD REEL TO BE ANCHORED TO STRUCTURE.
4. MINIMUM 45 3 CONDUCTOR, #12 SJO CORD.
5. THREE FOOT 20 AMP SUPPLY CORD WITH TWIST-LOCK CORD CAP.

GENERAL NOTES

A. REFER TO CONSTRUCTION DOCUMENTS FOR ELECTRICAL POWER, LOCATION AND QUANTITIES.
B. COORDINATE SUPPORT WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO ROUGH-IN.
C. CONTRACTOR SHALL PROVIDE SUPPORT DETAILS FOR REVIEW PRIOR TO INSTALLATION.

4 CORD REEL WITH CORD & PLUG
N.T.S.

CITY OF OAKLAND
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250 FRANK H. OGAWA PLAZA
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Drawn by: NH
Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
ELECTRICAL DETAILS

Drawing No.
E6.3
Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:41:55 PM

PANEL: L1A

VOLTS: 480/277 **PHASES:** 3 **WIRES:** 4
LOCATION: ELECTRICAL 113 **SUPPLY FROM:** MSA **KAIC:** 35 **KASC:** 21.7 (P1)
MAIN BREAKER: 100 A **AMP BUSSING:** 125 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POL E	A		B		C		POL E	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	L - LIGHTING SOCIAL HALL 116				20 A	1	2485	0					1	20 A	--	--	--	SPARE	2
3	L - LIGHTING HALLWAY 107				20 A	1			1153	0			1	20 A	--	--	--	SPARE	4
5	L - LIGHTING ROOM 6				20 A	1					100	0	1	20 A	--	--	--	SPARE	6
7	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	8
9	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	10
11	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	12
13	L - SITE LIGHTING				20 A	1	1400	0					1	20 A	--	--	--	SPARE	14
15	L -SITE LIGHTING				20 A	1			1000	0			1	20 A	--	--	--	SPARE	16
17	INV				50 A	1					5819	0	1	20 A	--	--	--	SPARE	18
19	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	20
21	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	22
23	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	24
25	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	26
27	SPARE	--	--	--	20 A	1			0	--			1	--	--	--	--	SPACE	28
29	SPARE	--	--	--	20 A	1					0	--	1	--	--	--	--	SPACE	30
31	SPARE	--	--	--	20 A	1	0	--					1	--	--	--	--	SPACE	32
33	SPARE	--	--	--	20 A	1			0	--			1	--	--	--	--	SPACE	34
35	SPARE	--	--	--	20 A	1					0	--	1	--	--	--	--	SPACE	36
37	L2A				60 A	3	2411	--					1	--	--	--	--	SPACE	38
39	--	--	--	--	--	--			1712	--			1	--	--	--	--	SPACE	40
41	--	--	--	--	--	--					138	--	1	--	--	--	--	SPACE	42
							6296 VA		3865 VA		6057 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
L - LIGHTING	16218 VA	125.00%	20273 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	16218 VA
TOTAL CONNECTED CURRENT:	20 A
TOTAL ESTIMATED DEMAND LOAD:	20273 VA
TOTAL ESTIMATED DEMAND CURRENT:	24 A

PANEL: P1A

VOLTS: 120/208 **PHASES:** 3 **WIRES:** 4
LOCATION: ELECTRICAL 113 **SUPPLY FROM:** DB1A **KAIC:** 18 **KASC:** 10.8 (P1)
MAIN BREAKER: 150 A **AMP BUSSING:** 225 A **NEUTRAL BUS:** **IG BUS:**

(P1) 2 → 13

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POL E	A		B		C		POL E	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	R - RECEPTACLE ROOM 109, 106,...				20 A	1	900	600					1	20 A				RECEPTACLE EXTERIOR CAMERA	2
3	R - RECEPTACLE ROOM 102, 107				20 A	1			900	900			1	20 A				R - RECEPTACLE ROOM 6, 20	4
5	R - RECEPTACLE ROOM 103, 102				20 A	1					900	800	1	20 A				ACTUATED DOOR ROOM 107, 102	6
7	R - RECEPTACLE ROOM 103, 104				20 A	1	900	500					1	20 A				SMOKE GUARD ELEV 102	8
9	R - RECEPTACLE ROOM 104, 111				20 A	1			900	180			1	20 A				ELEV PIT REC ELEV 102	10
11	R - RECEPTACLE ROOM 111, 105				20 A	1					900	500	1	20 A				DRINKING FOUNTAN GALLERY 106	12
13	FA POWER ELECTRICAL 113				20 A	1	200	--					1	--	--	--	--	SPACE	14
15																			16
17	R - RECEPTACLE ROOM 113, 114,...				20 A	1					720	300	1	20 A				IRRIGATION CONTROLLER	18
19	R - RECEPTACLE ROOM 117, 116				20 A	1	720												20
21	R - RECEPTACLE SOCIAL HALL 116				20 A	1			900										22
23	R - RECEPTACLE SOCIAL HALL 116				20 A	1					900								24
25	R - RECEPTACLE ROOM 106, 116				20 A	1	720												26
27										0			1	20 A	--	--	--	SPARE	28
29												0	1	20 A	--	--	--	SPARE	30
31	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	32
33	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	34
35	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	36
37	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	38
39	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	40
41	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	42
							4540 VA		3780 VA		5020 VA								
							Ø A		Ø B		Ø C								

(P1) 1 →

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Other	2300 VA	100.00%	2300 VA
R - RECEPTACLE	11040 VA	95.29%	10520 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	13340 VA
TOTAL CONNECTED CURRENT:	37 A
TOTAL ESTIMATED DEMAND LOAD:	12820 VA
TOTAL ESTIMATED DEMAND CURRENT:	36 A

PANEL: P1B

VOLTS: 120/208 **PHASES:** 3 **WIRES:** 4
LOCATION: ELECTRICAL 113 **SUPPLY FROM:** DB1A **KAIC:** 18 **KASC:** 10.8 (P1)
MAIN BREAKER: 150 A **AMP BUSSING:** 225 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POL E	A		B		C		POL E	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	SMALL MECH LOADS ELECTRICA...				20 A	1	600	400					1	20 A				TP-2 STAIR 2 118	2
3	FCU-103 - MOTOR				20 A	1			50	250			1	15 A				CP-1 SOCIAL HALL SUPPORT 117	4
5	FCU-102 - MOTOR ELECTRICAL...				20 A	1					50	0	1	20 A	--	--	--	SPARE	6
7	FCU-101 - MOTOR MPOE 115				20 A	1	50	0					1	20 A	--	--	--	SPARE	8
9									0				1	20 A	--	--	--	SPARE	10
11											0		1	20 A	--	--	--	SPARE	12
13							0						1	20 A	--	--	--	SPARE	14
15									0				1	20 A	--	--	--	SPARE	16
17											0		1	20 A	--	--	--	SPARE	18
19							0						1	20 A	--	--	--	SPARE	20
21									0				1	20 A	--	--	--	SPARE	22
23											0		1	20 A	--	--	--	SPARE	24
25							0						1	20 A	--	--	--	SPARE	26
27									0				1	20 A	--	--	--	SPARE	28
29											0		1	20 A	--	--	--	SPARE	30
31							0						1	20 A	--	--	--	SPARE	32
33									0				1	20 A	--	--	--	SPARE	34
35											0		1	20 A	--	--	--	SPARE	36
37							0						1	20 A	--	--	--	SPARE	38
39									0				1	20 A	--	--	--	SPARE	40
41											0		1	20 A	--	--	--	SPARE	42
							1050 VA		300 VA		50 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Other	1000 VA	100.00%	1000 VA
M - MOTOR	400 VA	115.63%	463 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	1400 VA
TOTAL CONNECTED CURRENT:	4 A
TOTAL ESTIMATED DEMAND LOAD:	1463 VA
TOTAL ESTIMATED DEMAND CURRENT:	4 A

PANEL: P1C

VOLTS: 120/208 **PHASES:** 3 **WIRES:** 4
LOCATION: KITCHEN 112 **SUPPLY FROM:** DB1A **KAIC:** 18 **KASC:** 10 (P1)
MAIN BREAKER: 400 A **AMP BUSSING:** 400 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POL E	A		B		C		POL E	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	RECEPTACLE KITCHEN 112				20 A	1	720	5880					3	60 A				ELEC RANGE KITCHEN 112	2
3	ICE MACHINE KITCHEN 112				20 A	1			650	5880			--	--	--	--	--	--	4
5	COFFEE BREWER KITCHEN 112				30 A	2					2640	5880	--	--	--	--	--	--	6
7	--	--	--	--	--	--	2640	--					1	--	--	--	--	SHUNT TRIP	8
9	R - RECEPTACLE KITCHEN 112				20 A	1			500	7440			3	75 A				CONVECTION OVEN KITCHEN 112	10
11	R - RECEPTACLE KITCHEN 112				20 A	1					500	7440	--	--	--	--	--	--	12
13							7440						--	--	--	--	--	--	14
15	R - RECEPTACLE KITCHEN 112				20 A	1			180	500			1	20 A				EXHAUST HOOD	16
17	R - RECEPTACLE KITCHEN 112				20 A	1					1200	--	1	--	--	--	--	SPACE	18
19	R - RECEPTACLE KITCHEN 112				20 A	1	500	500					1	20 A				FIRE SUPPRESSION SYSTEM	20
21	R - RECEPTACLE KITCHEN 112				20 A	1			500	--			1	--	--	--	--	SPACE	22
23	R - RECEPTACLE KITCHEN 112				20 A	1					180	500	1	20 A				CORD REEL - KITCHEN 112	24
25	SHUNT TRIP	--	--	--	--	1	--	500					1	20 A				CORD REEL - KITCHEN 112	26
27	R - RECEPTACLE KITCHEN 112				20 A	1			500	500			1	20 A				CORD REEL - KITCHEN 112	28
29	SHUNT TRIP	--	--	--	--	1					--	200	1	20 A				TP-2 KITCHEN 112	30
31	R - RECEPTACLE KITCHEN 112				20 A	1	180	0					1	20 A	--	--	--	SPARE	32
33	SHUNT TRIP	--	--	--	--	1			--	0			1	20 A	--	--	--	SPARE	34
35	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	36
37	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	38
39	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	40
41	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	42
							18360 VA		16650 VA		18540 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Other	23520 VA	100.00%	23520 VA
R - RECEPTACLE	30030 VA	66.65%	20015 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	53550 VA
TOTAL CONNECTED CURRENT:	149 A
TOTAL ESTIMATED DEMAND LOAD:	43535 VA
TOTAL ESTIMATED DEMAND CURRENT:	121 A

PANEL: P1D

VOLTS: 120/208 **PHASES:** 3 **WIRES:** 4
LOCATION: ELECTRICAL 113 **SUPPLY FROM:** DB1A **KAIC:** 18 **KASC:** 9.3 (P1)
MAIN BREAKER: 100 A **AMP BUSSING:** 125 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POL E	A		B		C		POL E	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	R- RECEPTACLE MPOE 115				20 A	1	720	1000					1	20 A				CEILING PROJECTOR -...	2
3	R - RECEPTACLE MPOE 115				20 A	1			500	400			1	20 A				SECURITY MPOE 115	4
5	AV RACK- RECEPTACLE MPOE 115				20 A	1					500	0	1	20 A	--	--	--	SPARE	6
7	AV RACK- RECEPTACLE MPOE 115				30 A	1	1000	0					1	20 A	--	--	--	SPARE	8
9	AV RACK - RECEPTACLE MPOE...				30 A	1			1000	0			1	20 A	--	--	--	SPARE	10
11	R - RECEPTACLE MPOE 115				20 A	1					500	0	1	20 A	--	--	--	SPARE	12
13	R - RECEPTACLE MPOE 115				20 A	1	500	0					1	20 A	--	--	--	SPARE	14
15	R - RECEPTACLE MPOE 115				20 A	1			1000	0			1	20 A	--	--	--	SPARE	16
17	R - RECEPTACLE MPOE 115				20 A	1					1000	0	1	20 A	--	--	--	SPARE	18
19	OTHER MPOE 115				20 A	1	400	0					1	20 A	--	--	--	SPARE	20
21											0		1	20 A	--	--	--	SPARE	22
23												0	1	20 A	--	--	--	SPARE	24
25	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	26
27	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	28
29	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	30
31	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	32
33	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	34
35	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	36
37	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	38
39	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	40
41	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	42
							3620 VA		2900 VA		2000 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Other	800 VA	100.00%	800 VA
R - RECEPTACLE	7720 VA	100.00%	7720 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	8520 VA
TOTAL CONNECTED CURRENT:	24 A
TOTAL ESTIMATED DEMAND LOAD:	8520 VA
TOTAL ESTIMATED DEMAND CURRENT:	24 A

PANEL: EV1A

VOLTS: 120/208 **PHASES:** 3 **WIRES:** 4
LOCATION: ELECTRICAL 113 **SUPPLY FROM:** T-EV1A **KAIC:** 10 **KASC:** 5.7
MAIN BREAKER: 250 A **AMP BUSSING:** 400 A **NEUTRAL BUS:** **IG BUS:**

(P1)

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POL E	A		B		C		POL E	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	EV CHARGER				40 A	2	3600	3600					2	40 A				EV CHARGER	2
3	--	--	--	--	--	--			3600	3600			--	--	--	--	--	--	4
5	EV CHARGER				40 A	2					3600	0	2	40 A	--	--	--	SPARE	6
7	--	--	--	--	--	--	3600	0					--	--	--	--	--	--	8
9	FUTURE EV CHARGER	--	--	--	40 A	2			0	0			2	40 A	--	--	--	SPARE	10
11	--	--	--	--	--	--					0	0	--	--	--	--	--	--	12
13	FUTURE EV CHARGER	--	--	--	40 A	2	0	0					2	40 A	--	--	--	SPARE	14
15	--	--	--	--	--	--			0	0			--	--	--	--	--	--	16
17	SPARE	--	--	--	40 A	2					0	0	1	20 A	--	--	--	SPARE	18
19	--	--	--	--	--	--	0	0					1	20 A	--	--	--	SPARE	20
21	SPARE	--	--	--	40 A	2			0	0			1	20 A	--	--	--	SPARE	22
23	--	--	--	--	--	--					0	0	1	20 A	--	--	--	SPARE	24
							10800 VA		7200 VA		3600 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
C - LONG CONTINUOUS LOAD	21600 VA	125.00%	27000 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	21600 VA
TOTAL CONNECTED CURRENT:	60 A
TOTAL ESTIMATED DEMAND LOAD:	27000 VA
TOTAL ESTIMATED DEMAND CURRENT:	75 A

(##) SHEET NOTES

1. PROVIDE GFCI BREAKER. BREAKER TO BE READILY ACCESSIBLE.
2. PROVIDE RED HANDLE AND LOCK-ON DEVICE FOR ALL CIRCUITS FEEDING ALARM DEVICES, CABINETS OR EQUIPMENT. ALL CIRCUITS FEEDING FIRE ALARM DEVICES, CABINETS OR EQUIPMENT SHALL BE DEDICATED TO FIRE ALARM DEVICES ONLY. PROVIDE PLACARD TO READ "FIRE ALARM SYSTEM"

L1A	P1A
P1B	P1C
P1D	EV1A

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Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
ELECTRICAL PANEL SCHEDULES

Drawing No.
E7.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:41:59 PM

PANEL: L2A

VOLTS: 480/277 **PHASES:** 3 **WIRES:** 4
LOCATION: TELE / ELEC 205 **SUPPLY FROM:** L1A **KAIC:** 18 **KASC:** 11.3 (P1)
MAIN BREAKER: 60 A **AMP BUSSING:** 125 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POLE	A		B		C		POLE	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	LEVEL 2 LIGHTING				20 A	1	2291	0					1	20 A	--	--	--	SPARE	2
3	LEVEL 2 LIGHTING				20 A	1			1712	0			1	20 A	--	--	--	SPARE	4
5	ELEVATOR MACHINE ROOM LTG				20 A	1					26	0	1	20 A	--	--	--	SPARE	6
7	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	8
9	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	10
11	LIGHTING TERRACE 211				20 A	1					112	0	1	20 A	--	--	--	SPARE	12
13	LIGHTING UPPER MECH ROOF				20 A	1	120	0					1	20 A	--	--	--	SPARE	14
15										0			1	20 A	--	--	--	SPARE	16
17												0	1	20 A	--	--	--	SPARE	18
19								0					1	20 A	--	--	--	SPARE	20
21										0			1	20 A	--	--	--	SPARE	22
23												0	1	20 A	--	--	--	SPARE	24
25								0					1	20 A	--	--	--	SPARE	26
27																			28
29																			30
31																			32
33																			34
35																			36
37																			38
39																			40
41																			42
							2411 VA		1712 VA		138 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
L - LIGHTING	4261 VA	125.00%	5326 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	4261 VA
TOTAL CONNECTED CURRENT:	5 A
TOTAL ESTIMATED DEMAND LOAD:	5326 VA
TOTAL ESTIMATED DEMAND CURRENT:	6 A

PANEL: M2A

VOLTS: 480/277 **PHASES:** 3 **WIRES:** 4
LOCATION: TELE / ELEC 205 **SUPPLY FROM:** MSA **KAIC:** 35 **KASC:** 22 (P1)
MAIN BREAKER: 400 A **AMP BUSSING:** 400 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POLE	A		B		C		POLE	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	HPWH-1 UPPER MECH ROOF-3...				20 A	3	1767	7500					3	50 A				AHU-1 SUPPLY UPPER MECH...	2
3	--	--	--	--	--	--			1767	7500			--	--	--	--	--	--	4
5	--	--	--	--	--	--					1767	7500	--	--	--	--	--	--	6
7	FUTURE DIVISION 22 EQUIPMENT	--	--	--	20 A	3	0	3667					3	30 A				AHU-1 RETURN UPPER MECH...	8
9	--	--	--	--	--	--			0	3667			--	--	--	--	--	--	10
11	--	--	--	--	--	--					0	3667	--	--	--	--	--	--	12
13	ASHP-1 MECH ROOF 212				90 A	3	8333	1300					3	20 A				KPF-1 UPPER MECH ROOF	14
15	--	--	--	--	--	--			8333	1300			--	--	--	--	--	--	16
17	--	--	--	--	--	--					8333	1300	--	--	--	--	--	--	18
19	FUTURE GYM HVAC UNIT	--	--	--	90 A	3	0												20
21	--	--	--	--	--	--			0										22
23	--	--	--	--	--	--					0								24
25								0					3	20 A	--	--	--	SPARE	26
27										0			--	--	--	--	--	--	28
29												0	--	--	--	--	--	--	30
31								0					1	20 A	--	--	--	SPARE	32
33										0			1	20 A	--	--	--	SPARE	34
35												0	1	20 A	--	--	--	SPARE	36
37								0					1	20 A	--	--	--	SPARE	38
39										0			1	20 A	--	--	--	SPARE	40
41												0	1	20 A	--	--	--	SPARE	42
							22567 VA		22567 VA		22567 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
M - MOTOR	67700 VA	109.23%	73950 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	67700 VA
TOTAL CONNECTED CURRENT:	81 A
TOTAL ESTIMATED DEMAND LOAD:	73950 VA
TOTAL ESTIMATED DEMAND CURRENT:	89 A

PANEL: P2A

VOLTS: 120/208 **PHASES:** 3 **WIRES:** 4
LOCATION: TELE / ELEC 205 **SUPPLY FROM:** DB1A **KAIC:** 10 **KASC:** 7.7 (P1)
MAIN BREAKER: 150 A **AMP BUSSING:** 225 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POLE	A		B		C		POLE	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	MAKER'S SPACE-1 208-1				20 A	1	1080	900					1	20 A				TERRACE 211	2
3	MAKER'S SPACE-1 208-1				20 A	1			1080	360			1	20 A				ELEV. CONTROL 202	4
5	COMP. LAB SUPPORT 204				20 A	1					720	100	1	20 A				CAB LIGHTS ELEV. CONTROL 202	6
7	TELE / ELEC 205				20 A	1	720	500					1	20 A				SMOKE GUARD ELEV. LOBBY 217	8
9	ROOM 216, 207, 217				20 A	1			900	500			1	20 A				CORD REEL - RECEPTACLE...	10
11	ROOM 201, 216				20 A	1					540	500	1	20 A				CORD REEL - RECEPTACLE...	12
13	ROOM 208.2, 208.1				20 A	1	360	500					1	20 A				CORD REEL - RECEPTACLE...	14
15	COMPUTER LAB / MPR 209				20 A	1			900	500			1	20 A				CORD REEL - RECEPTACLE...	16
17	COMPUTER LAB / MPR 209				20 A	1					900	0	1	20 A	--	--	--	SPARE	18
19	COMPUTER LAB / MPR 209				20 A	1	1080	0					1	20 A	--	--	--	SPARE	20
21	CLASSROOM 210				20 A	1			360	360			1	20 A				FUTURE ERRCS SYSTEM ELEC...	22
23	CLASSROOM 210				20 A	1					900	360	1	20 A				FUTURE ERRCS SYSTEM ELEC...	24
25	CLASSROOM 210				20 A	1	900	540					1	20 A				R - RECEPTACLE L2 GALLERY 216	26
27	CLASSROOM 210				20 A	1			720	540			1	20 A				RECEPTACLE UPPER MECH ROOF	28
29	SPARE	--	--	--	20 A	1					0								30
31	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	32
33	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	34
35	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	36
37	SPARE	--	--	--	20 A	1	0	0					1	20 A	--	--	--	SPARE	38
39	SPARE	--	--	--	20 A	1			0	0			1	20 A	--	--	--	SPARE	40
41	SPARE	--	--	--	20 A	1					0	0	1	20 A	--	--	--	SPARE	42
							6580 VA		6220 VA		4020 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Other	600 VA	100.00%	600 VA
R - RECEPTACLE	16220 VA	80.83%	13110 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	16820 VA
TOTAL CONNECTED CURRENT:	47 A
TOTAL ESTIMATED DEMAND LOAD:	13710 VA
TOTAL ESTIMATED DEMAND CURRENT:	38 A

PANEL: P2B

VOLTS: 120/208 **PHASES:** 3 **WIRES:** 4
LOCATION: TELE / ELEC 205 **SUPPLY FROM:** DB1A **KAIC:** 10 **KASC:** 7.7 (P1)
MAIN BREAKER: 150 A **AMP BUSSING:** 225 A **NEUTRAL BUS:** **IG BUS:**

CKT	CIRCUIT DESCRIPTION	L	R	M	TRIP	POLE	A		B		C		POLE	TRIP	M	R	L	CIRCUIT DESCRIPTION	CKT
1	SMALL MECH LOADS TELE / ELE...				20 A	1	600	200					1	20 A				TP-2 MAKER'S SPACE-1 208-1	2
3	EF-1 UPPER MECH ROOF-3 213-3				30 A	1			1650	100			1	20 A				OTHER UPPER MECH ROOF-3...	4
5	FCU-201ELEV. CONTROL 202				20 A	1					50	3000	2	35 A				CU-1 UPPER MECH ROOF-3 313-3	6
7	CHWP-1 MECH ROOF 212				20 A	3	900	3000					--	--	--	--	--	--	8
9	--	--	--	--	--	--			900	0			1	20 A	--	--	--	SPARE	10
11	--	--	--	--	--	--					900	0	1	20 A	--	--	--	SPARE	12
13	CHWP-2 - MOTOR MECH ROOF 212				20 A	3	900	0					1	20 A	--	--	--	SPARE	14
15	--	--	--	--	--	--			900	0			1	20 A	--	--	--	SPARE	16
17	--	--	--	--	--	--					900	0	1	20 A	--	--	--	SPARE	18
19	HHWP-1 - MOTOR MECH ROOF 212				20 A	3	1267	0					1	20 A	--	--	--	SPARE	20
21	--	--	--	--	--	--			1267	0			1	20 A	--	--	--	SPARE	22
23	--	--	--	--	--	--					1267	0	1	20 A	--	--	--	SPARE	24
25	HHWP-2 - MOTOR MECH ROOF 212				20 A	3	1267	0					1	20 A	--	--	--	SPARE	26
27	--	--	--	--	--	--			1267	0			1	20 A	--	--	--	SPARE	28
29	--	--	--	--	--	--					1267	0	1	20 A	--	--	--	SPARE	30
31								0					1	20 A	--	--	--	SPARE	32
33										0			1	20 A	--	--	--	SPARE	34
35												0	1	20 A	--	--	--	SPARE	36
37	SPARE	--	--	--	20 A	3	0	0					3	20 A	--	--	--	SPARE	38
39	--	--	--	--	--	--			0	0			--	--	--	--	--	--	40
41	--	--	--	--	--	--					0	0	--	--	--	--	--	--	42
							8133 VA		6083 VA		7383 VA								
							Ø A		Ø B		Ø C								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Other	900 VA	100.00%	900 VA
M - MOTOR	20700 VA	107.25%	22200 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	21600 VA
TOTAL CONNECTED CURRENT:	60 A
TOTAL ESTIMATED DEMAND LOAD:	23100 VA
TOTAL ESTIMATED DEMAND CURRENT:	64 A

LCP

RELAY	LINE FEED	DIMMING	VOLTAGE	SOURCE	DESCRIPTION	CONTROLLED BY
1	INV-9	NO	277V	EMERGENCY	PL-01	TC,PC
2	INV-10	YES	277V	EMERGENCY	PL-02	TC,PC,OC
3	INV-6	YES	277V	EMERGENCY	WM-02, LR-03	TC,PC,OC
4	INV-5	YES	277V	EMERGENCY	WM-02, LR-03	TC,PC,OC
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	L1A-15	YES	277V	NORMAL	PL-02	TC,OC,PC
8	L1A-13	YES	277V	NORMAL	PT-01, PT-02	TC,OC,PC
9	L1A-13	YES	277V	NORMAL	PT-02	TC,OC,PC
10	L1A-5	YES	277V	NORMAL	WM-02	TC,OC,PC
11	L1A-7	YES	277V	NORMAL	WM-02	TC,OC,PC
12	L1A-5	YES	277V	NORMAL	PR-03	TC,PC
13	L1A-5	YES	277V	NORMAL	SP-02	TC,PC
14						
15						
16	-	-	-	-	-	-

LCAP44 (16 RELAY/ZONE PANEL)
NAME: ARCHITECTURAL DIMMING PANEL
PART #: LCAP44
DESCRIPTION:
16 RELAY/ZONE RELAY PANEL WITH 8 0-10VDC DIMMING OUTPUTS SCREW COVER NEMA1 BOX
RELAYS ARE FIELD CONFIGURABLE AND COMBINABLE TO BE 2-POLE AND 3-POLE TYPES
PANEL IS FEED-THROUGH TYPE
NOTE1: PANEL ONLY DOES SWITCHING AND 0-10VDC DIMMING; NO PHASE DIMMING
NOTE2: LIGHTING CONTROL PANEL SHALL BE CONNECTED WITH FIRE ALARM SYSTEM. EMERGENCY LIGHTING ILLUMINATION SHALL AUTOMATICALLY BE RESTORED TO FULL BRIGHTNESS UPON ACTIVATION OF A PREMISES' FIRE ALARM SYSTEM.

TC = ASTRONOMICAL TIME CLOCK
PC = PHOTOCELL
OS = OCCUPANCY SENSOR
OR = OVERRIDE MANUAL SWITCH

L2A	M2A
P2A	P2B
LCP	-

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Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title
ELECTRICAL PANEL SCHEDULES

Drawing No.
E7.2

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:42:02 PM

MSA

0

CKT	CIRCUIT DESCRIPTION	LOAD (kVA)
1	L1A	16.2
2	T-EV1A	21.6
3	ELEV 1	28.3
4	M2A	67.7
5	TDB1A	115.2
6	T-PL	75.0
7		
8		
9		
10		
		324.0

LOAD CLASSIFICATION	CONNECTED...	DEMAND...	DEMAND LOAD	PANEL TOTALS	
L - LIGHTING	16218 VA	125%	20273 VA	TOTAL CONNECTED LOAD (kVA):	324.0
R - RECEPTACLE	65010 VA	NOTE 1	37505 VA	TOTAL CONNECTED CURRENT(AMP):	389.7
M - MOTOR	117054 VA	NOTE 2	124118 VA	TOTAL DEMAND LOAD (kVA):	313.0
Other	104120 VA	100%	104120 VA	TOTAL DEMAND CURRENT (AMP):	376.5
C - LONG CONTINUOUS LOAD	21600 VA	125%	27000 VA		

NOTES:
1. 100% OF FIRST 10kVA AND 50% OF REMAINING LOAD PER NEC 220.44
2. 125% OF LARGEST MOTOR LOAD AND 100% OF OTHER MOTOR LOADS PER NEC 430.24

DB1A

0

CKT	CIRCUIT DESCRIPTION	LOAD (kVA)
1	P1A	13.3
2	P1B	1.4
3	P1C	53.6
4	P1D	8.5
5	P2A	16.8
6	P2B	21.6
7		
8		
9		
10		
		115.2

LOAD CLASSIFICATION	CONNECTED...	DEMAND...	DEMAND LOAD	PANEL TOTALS	
L - LIGHTING	0 VA	125%	0 VA	TOTAL CONNECTED LOAD (kVA):	115.2
R - RECEPTACLE	65010 VA	NOTE 1	37505 VA	TOTAL CONNECTED CURRENT(AMP):	319.8
M - MOTOR	21100 VA	NOTE 2	22600 VA	TOTAL DEMAND LOAD (kVA):	89.2
Other	29120 VA	100%	29120 VA	TOTAL DEMAND CURRENT (AMP):	247.7
C - LONG CONTINUOUS LOAD	0 VA	125%	0 VA		

NOTES:
1. 100% OF FIRST 10kVA AND 50% OF REMAINING LOAD PER NEC 220.44
2. 125% OF LARGEST MOTOR LOAD AND 100% OF OTHER MOTOR LOADS PER NEC 430.24

-	MSA
-	DB1A
-	-

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Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
ELECTRICAL PANEL SCHEDULES

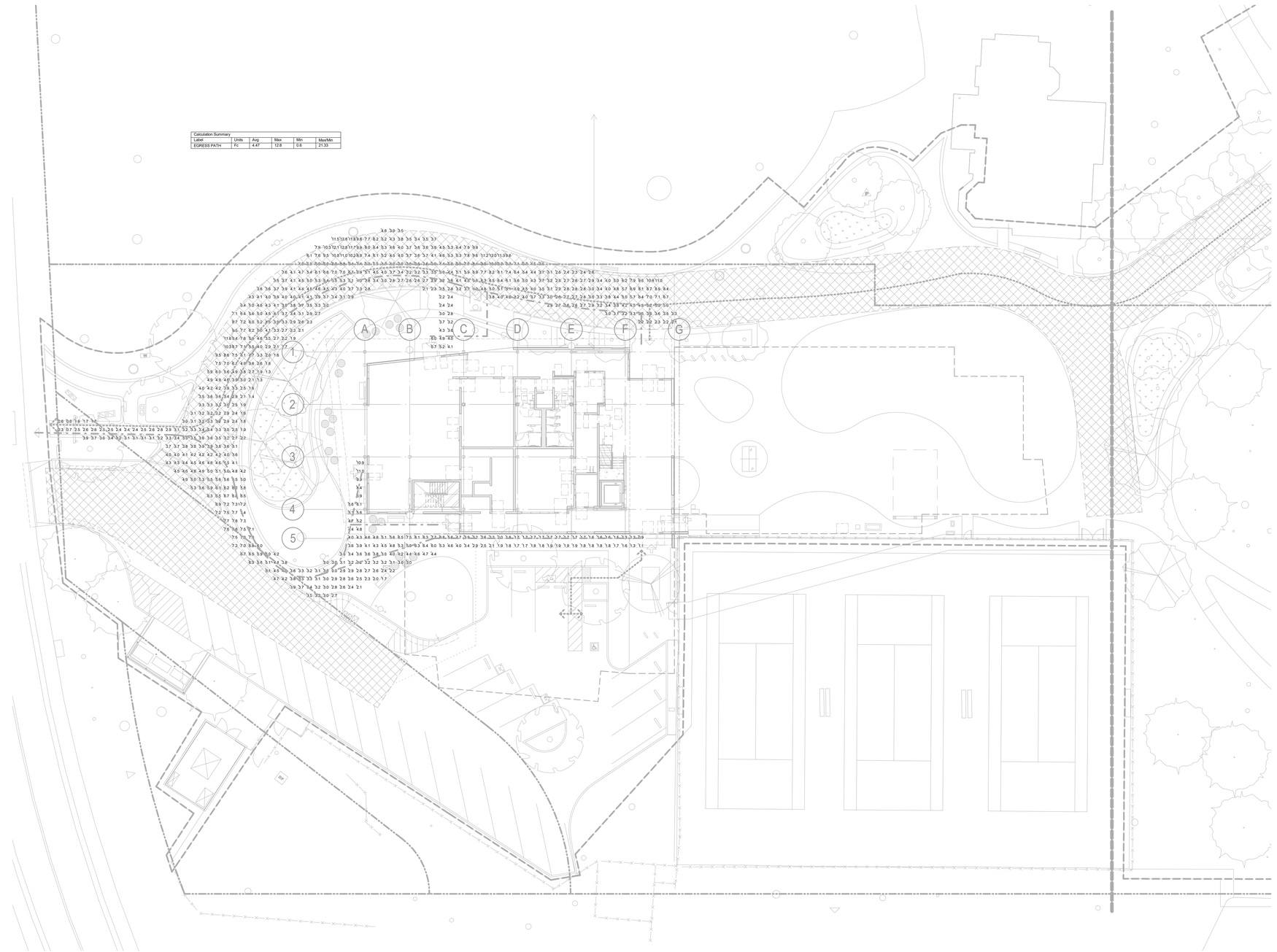
Drawing No.
E7.3 P1

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:42:05 PM

Calculation Summary					
Label	Units	Avg	Max	Min	Max/Min
EGRESS PATH	Fc	4.47	12.8	0.6	21.33



1 E9.1 ELECTRICAL EGRESS CALCULATION - SITE

SCALE: 1" = 20'-0"

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	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title

ELECTRICAL EGRESS CALCULATION - SITE

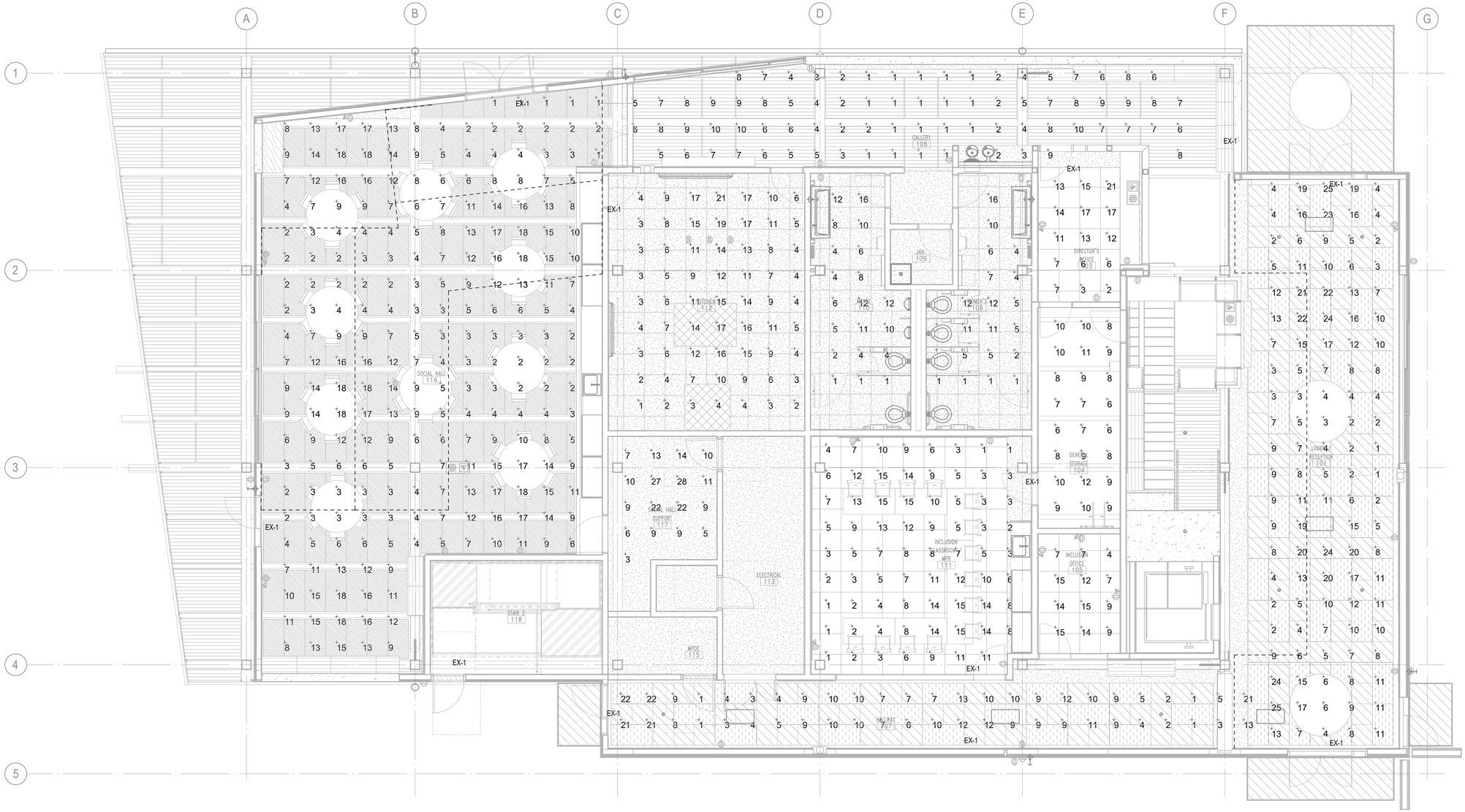
Drawing No.

E9.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2022 3:42:09 PM



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
1-0 -LOBBY RECEPTION	Illuminance	Fc	10	25	1	10	25
1-2- HALLWAY	Illuminance	Fc	9	22	1	9	22
1-3- GALLERY	Illuminance	Fc	5	10	1	5	10
1-4-SOCIAL HALL	Illuminance	Fc	8	18	1	8	18
1-5-KITCHEN	Illuminance	Fc	8	21	1	8	21
1-6- WC	Illuminance	Fc	7	16	1	7	16
1-7-DIRECTOR'S OFFICE	Illuminance	Fc	11	21	2	5	11
1-8-INCLUSION CLASSROOM	Illuminance	Fc	7	15	1	7	15
1-9-INCLUSION OFFICE	Illuminance	Fc	11	15	4	3	4
2-1-SOCIAL HALL SUPPORT	Illuminance	Fc	13	28	3	4	9
2-2- GENERAL STORAGE	Illuminance	Fc	9	12	6	1	2

1 / E9.2 ELECTRICAL EGRESS CALCULATION - FIRST FLOOR
SCALE: 3/16" = 1'-0"

CITY OF OAKLAND
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MOSSWOOD COMMUNITY CENTER - PHASE 1

MOSSWOOD COMMUNITY CENTER - PHASE 1

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Designed by: AM
Checked by: AM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

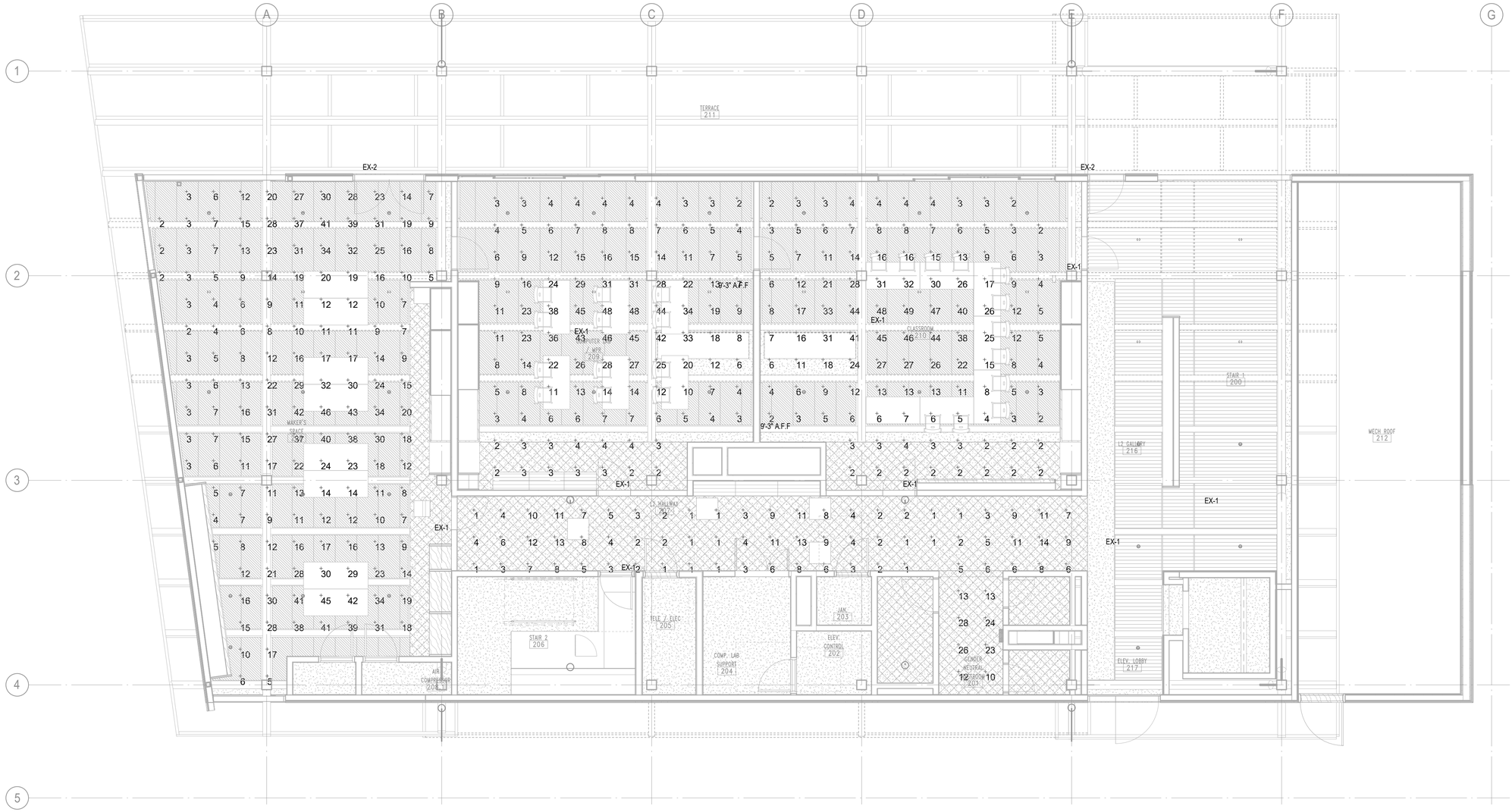
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
ELECTRICAL EGRESS CALCULATION - FIRST FLOOR

Drawing No.
E9.2

Sheet No.

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/14/2022 3:42:17 PM



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
1-1-CLASROOM	Illuminance	Fc	13	49	2	6	25
1-3-COMPUTER LAB MPR	Illuminance	Fc	14	48	2	7	24
1-5-L2 HALLWAY	Illuminance	Fc	7	28	1	7	28
1-6-PLACE MAKER	Illuminance	Fc	17	46	2	8	23

1 ELECTRICAL EGRESS CALCULATION - SECOND FLOOR
3/16" = 1'-0"

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LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/14/2023 8:42:24 PM

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
ELECTRICAL EGRESS CALCULATION - SECOND FLOOR

Drawing No.
E9.3

Sheet No.

MOSSWOOD COMMUNITY CENTER - PHASE 1

GENERAL NOTES

1. ALL INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES.
2. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
3. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
4. OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL CHECK ALL DRAWINGS IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY A CUSTOMER REPRESENTATIVE OF ANY DISCREPANCIES. FIGURES MARKED ON DRAWINGS SHALL IN GENERAL BE FOLLOWED IN PREFERENCE TO SCALE MEASUREMENTS. LARGE SCALE DRAWINGS SHALL IN GENERAL GOVERN SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES BEFORE LAYING OUT THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY.
6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
7. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM A CUSTOMER REPRESENTATIVE.
8. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE WORK INTERFACES WITH OTHER TRADES.
9. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE DRAWINGS. THIS INCLUDES DEVIATIONS FROM ANY ADDITION, DELETION OR RELOCATION OF WORK. IN ADDITION CONTRACTOR SHALL PROVIDE CAD FILES OF AS-BUILT DWGS.
10. A CUSTOMER REPRESENTATIVE IS TO BE NOTIFIED OF ANY CHANGE OF WORK CAUSED BY FIELD CONDITION CONFLICTS.
11. ALL CONDUITS AND PIPING SHALL BE CONCEALED IN PARTITIONS OR CEILING SPACE U.N.O. CONDUITS SHALL EXTEND TO NEAREST CABLE TRAY OR ACCESSIBLE CEILING SPACE U.N.O.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.
13. ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER SYSTEM MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP. MATERIAL INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. THIS SHALL INCLUDE WALL, FLOOR, OR CEILING PENETRATIONS FOR CONDUIT, SLEEVES, OR CABLE.
14. ANY DEVIATIONS FROM PLANS OR SPECS MUST BE APPROVED IN WRITING BY A CUSTOMER REPRESENTATIVE.
15. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL PROPERTY DAMAGE REPAIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING DAILY CLEANUP OF THE WORK SITE.
16. ALL WORK IS TO BE PERFORMED ACCORDING TO STANDARDS AND MANUFACTURER'S SPECIFICATIONS.
17. CONTRACTOR SHALL PROVIDE ALL APPLICABLE PERMITS.
18. CONTRACTOR SHALL REFER TO ELECTRICAL SHEETS FOR EXACT LOCATIONS OF MODULAR FURNITURE.
19. CONTRACTOR SHALL REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF ALL RATED WALL.
20. GENERAL CONTRACTOR SHALL VERIFY BACK BOX LOCATIONS AND MOUNTING:
    - ALL JUNCTION BOXES IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
    - PROVIDE BLANK COVER PLATES AT ALL AUDIOVISUAL JUNCTION BOXES. VERIFY ALL COVER PLATE FINISHES WITH ARCHITECT.
    - VERIFY MOUNTING CONDITIONS, HEIGHTS AND LOCATIONS OF ALL AUDIOVISUAL JUNCTION BOXES, BACK BOXES AND FLOOR BOXES WITH ARCHITECT.
    - SOME JUNCTION BOXES AND BACK BOXES SPECIFIED IN AUDIOVISUAL DRAWINGS MAY BE DEEPER THAN WALL DEPTH. VERIFY INSTALLATION REQUIREMENTS AND DETAILING. DETAILS PROVIDED ON AV AND ARCHITECTURAL DRAWINGS.
    - ALL BOXES DESIGNATED AS FUTURE SHALL HAVE A BLANK COVER PLATE WITH THE STENCILED AV BACK BOX LABEL PAINTED ON THE INSIDE OF THE COVER PLATE FOR IDENTIFICATION.
21. CONDUIT AND WIRE PULLING:
    - ALL CONDUITS SPECIFIED SHALL BE EMT OR RIGID TYPE. FLEXIBLE CONDUITS SHALL NOT BE ALLOWED WHERE ACCESS CANNOT BE PROVIDED TO THE FULL LENGTH OF THE CONDUIT RUN.
    - WHERE CONDUIT IS TO BE SURFACE RUN, THE CONTRACTOR SHALL FINISH THE CONDUIT TO MATCH THE WALL FINISH.
    - NO SINGLE BEND IN CONDUIT SHALL EXCEED 90 DEGREES BEND RADIUS 6X (<2") 10X (>2" OR FIBER). NO SINGLE CONDUIT RUN SHALL HAVE MORE THAN TWO 90 DEGREE BENDS, NOT MORE THAN 180 DEGREES TOTAL.
    - IN EACH CONDUIT RUN BETWEEN SUCCESSIVE BACK BOXES AND PULL BOXES, INSTALL A LENGTH OF PULL STRING. CONTINUOUS STRING BETWEEN BACK BOXES, DO NOT CUT/SPLICE STRING AT PULL BOXES.
    - WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX THE GENERAL CONTRACTOR SHALL LABEL EACH CONDUIT IN A MANNER ALLOWING IDENTIFICATION OF CONDUITS AFTER WALL FINISHES ARE APPLIED.
    - ISOLATE ALL CONDUITS FROM THE AV GROUND SYSTEM. ALL CONDUITS ENTERING THE RACKS SHALL BE INSULATED FROM THE RACKS WITH PLASTIC BUSHINGS.
22. COORDINATION:
    - CEILING MOUNTED SPEAKER ENCLOSURES SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE. DO NOT HANG SPEAKER ENCLOSURES FROM FINISHED CEILING.
    - ALL HANGING OR FREE STANDING EQUIPMENT AND CABINETS FURNISHED INCLUDING, BUT NOT LIMITED TO, RACKS, LOUDSPEAKERS, PROJECTION SCREENS AND TV MONITORS, SHALL BE SECURED TO SUBSTANTIAL BUILDING STRUCTURE SO AS TO RESIST SEISMIC ACCELERATION IN ANY DIRECTION UP TO THE LIMIT PRESCRIBED BY GOVERNING CODES.
    - GENERAL CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT FOR MOUNTING OF AUDIOVISUAL EQUIPMENT PROVIDED BY OTHERS AT LOCATIONS DESIGNATED IN THESE DRAWINGS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BACKING FOR WALL MOUNTED DEVICES AND OVERHEAD SUPPORT FOR CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. REFER TO ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS AND REQUIREMENTS.
    - DIMENSIONS ARE INDICATED ON DRAWINGS WHERE CRITICAL TO THE INSTALLATION AND PERFORMANCE OF THE AUDIOVISUAL DEVICES. WHERE INFORMATION AND REQUIREMENTS CONFLICT WITH SPECIFICATIONS AND DESIGNS DELINEATED ELSEWHERE, THE GENERAL CONTRACTOR SHALL IMMEDIATELY BRING SUCH CONFLICTS TO THE ATTENTION OF THE ARCHITECT.
    - THE ARCHITECTURAL, FURNITURE AND FINISH CONFIGURATIONS ILLUSTRATED ON THE AUDIOVISUAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS AND REQUIREMENTS.
    - ALL EQUIPMENT INSTALLATION AND MOUNTING DETAILS PROVIDED IN THE DRAWINGS ARE FOR REFERENCE ONLY TO CONVEY DESIGN INTENT.

GENERAL SYMBOLS

	FIRE TREATED 3/4" A/C GRADE PLYWOOD HEIGHT x LENGTH AS INDICATED
EEE	COMMUNICATIONS CONDUIT BANK TAG
##	REFERENCE TO NOTE "1" ON SAME SHEET
1 / T-6	DETAIL REFERENCE DETAIL "#1" ON DRAWING "T-6"
1 / T-6	SECTION OR ELEVATION REFERENCE DETAIL "1" ON DRAWING "T-6"

LINETYPE LEGEND

FLOOR	WALL	CEILING	
			CONDUIT CONCEALED IN CEILING OR WALL SPACE
			CONDUIT RUN EXPOSED
			CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SPACE
			EXISTING CONDUIT TO REMAIN
			CONDUIT RISING UP FROM RUN
			CONDUIT DROPPING DOWN FROM RUN

SECURITY WIRE SCHEDULE

A	22/6 SHLD (CARD READER)
B	22/4 (REQUEST-TO-EXIT)
C	18/2 (ALARM CONTACT)
D	18/4 (ELECTRIC LOCK)
E	14/2 (MAGNETIC LOCK)
G	18/2 SHLD (DATA)
	18/2 (12 VDC POWER)
H	50 MICRON FIBER (50um)
N	22/8 + 18/2 (LOCAL ALARM)
P	22/4 (MOTION DETECTOR)
R	18/4 SHLD (ARMING STATION)
S	18/4 UNSHIELDED
T	18/2 (ELEVATOR CONTROL)
V	LOCKING HARDWARE POWER SUPPLY 12/2
Z	COMPOSITE CABLE CONTAINING SCHEDULE A,B,C & D

SYMBOL LEGEND

	STANDARD VOICE/DATA OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4S DEEP JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 1" EMT CONDUIT STUBBED UP TO 6" ABOVE ACCESSIBLE CEILING SPACE, TO NEAREST TELECOM ROOM. COMMUNICATION CONTRACTOR SHALL TERMINATE CABLES AT NEAREST TELECOM ROOM. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC MOUNTING HEIGHTS. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL (2) CATEGORY 6A CABLES TERMINATED WITH (2) CATEGORY 6A RJ45 JACKS IN (1) 2-PORT FACEPLATE. COMMUNICATION CONTRACTOR SHALL PROVIDE ALL CABLES AND SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
X	DATA OUTLET: "X" DENOTES, NUMBER OF CABLES PER OUTLET WITH MAXIMUM OF 6 CABLES PER OUTLET. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4S DEEP SQUARE JUNCTION BOX WITH SINGLE PLASTER RING AND 1-1/4" CONDUIT STUBBED UP TO 6" ABOVE ACCESSIBLE CEILING SPACE. OUTLET SHALL BE MOUNTED AT +18" AFF U.N.O. COMMUNICATION CONTRACTOR SHALL PROVIDE (X) CATEGORY 6A TERMINATED ON (X) RJ-45. COMMUNICATION CONTRACTOR SHALL PROVIDE ALL CABLES AND SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
	PHONE OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4S DEEP SQUARE JUNCTION BOX WITH SINGLE PLASTER RING AND 1" CONDIUIT STUBBED UP TO 6" ABOVE ACCESSIBLE CEILING SPACE OR NEAREST TELECOM ROOM. OUTLET SHALL MOUNTED AT +42" AFF U.N.O. COMMUNICATION CONTRACTOR SHALL PROVIDE (1) CATEGORY 6A TERMINATED ON RJ-45. COMMUNICATION CONTRACTOR SHALL PROVIDE ALL CABLES AND SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
AV	CEILING AV OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SINGLE GANG DEEP BACKBOX WITH 1" CONDUIT TO TELECOM ROOM. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED AV CABLES.
AV	AV OUTLET : ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DOUBLE GANG BOX WITH PLASTER RING AND 1-1/2" CONDUIT 6" ABOVE CEILING. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED AV CABLES.
	CEILING DATA OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SINGLE GANG DEEP BACKBOX WITH 1" CONDUIT TO TELECOM ROOM. COMMUNICATION CONTRACT OR SHALL PROVIDE (2) CATEGORY 6A CABLE TERMINATED WITH RJ45 CONNECTOR ON 2-PORT BISCUIT. PROVIDE 15' SERVICE LOOP AT EACH LOCATION.
WAP	WIRELESS ACCESS POINT: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SINGLE GANG DEEP BACKBOX WITH 1" CONDUIT TO NEAREST TELECOM ROOM. COMMUNICATION CONTRACTOR SHALL PROVIDE (2) CATEGORY 6A CABLES TERMINATED WITH RJ45 CONNECTORS ON 2-PORT BISCUIT. PROVIDE 15' SERVICE LOOP AT EACH LOCATION. COMMUNICATION CONTRACTOR SHALL INSTALL WIRELESS ACCESS POINT PROVIDED BY OWNER AND SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
	COMMUNICATION FLOORBOX: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL FLOORBOX (FSR FL-500-4") WITH (1) 1-1/4" CONDUIT TO NEAREST WALL STUB-UP 6" ABOVE ACCESSIBLE CEILING SPACE OR TO NEAREST TELECOM ROOM. PROVIDE A SINGLE DEDICATED COMPARTMENT FOR DATA, AND SEPARATE DEDICATED COMPARTMENT AND CONDUIT FOR POWER. REFER TO ELECTRICAL PLANS FOR POWER REQUIREMENTS. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL (4) CATEGORY 6A CABLES TERMINATED WITH RJ45 CONNECTOR. COMMUNICATION CONTRACTOR SHALL PROVIDE ALL CABLES AND SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
AV	MULTISERVICE FLOORBOX: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL FLOORBOX (FSR FL-500-6")WITH (1) 1-1/4" CONDUIT FOR DATA , (1)1-1/2" CONDUIT FOR AUDIO VISUAL TO NEAREST WALL STUB-UP 6" ABOVE ACCESSIBLE CEILING SPACE OR TO NEAREST TELECOM ROOM. PROVIDE A SINGLE DEDICATED COMPARTMENT FOR DATA, AND SEPARATE DEDICATED COMPARTMENT AND CONDUIT FOR POWER AND AV. REFER TO ELECTRICAL PLANS FOR POWER REQUIREMENTS . COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL (4) CATEGORY 6A CABLES TERMINATED WITH RJ45 CONNECTOR. COMMUNICATION CONTRACTOR SHALL PROVIDE ALL CABLES AND SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
TV	TV OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SINGLE GANG DEEP BACKBOX WITH 1" CONDUIT STUBBED UP 6" ABOVE ACCESSIBLE CEILING SPACE OR TO NEAREST TELECOM ROOM. CONFIRM MOUNTING HEIGHT WITH ARCHITECT. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL (1) CATEGORY 6A CABLE TERMINATED ON RJ45 AND (1) RG6 COAX CABLE TERMINATED ON F-CONNECTOR.
PA	CEILING PA SPEAKER: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT WITH 4S BACKBOX WITH SINGLE GANG MUD RING. PA SYSTEM IS DESIGN BUILD SYSTEM, TO BE PROVIDED BY CONTRACTOR AS ADD ALTERNATE.
PAC	PA CONSOLE . PA SYSTEM IS DESIGN BUILD SYSTEM, TO BE PROVIDED BY CONTRACTOR AS ADD ALTERNATE.
PA	WALL PA SPEAKER: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT WITH 4S BACKBOX WITH SINGLE GANG MUD RING. PA SYSTEM IS DESIGN BUILD SYSTEM, TO BE PROVIDED BY CONTRACTOR AS ADD ALTERNATE.
S	AV WALL LOUDSPEAKER: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT WITH 4S BACKBOX WITH SINGLE GANG MUD RING. CONDUIT SHALL STUB 6" ABOVE ACCESSIBLE CEILING SPACE . AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED AV CABLES.
S	AV CEILING LOUDSPEAKER: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT WITH 4S BACKBOX WITH SINGLE GANG MUD RING. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED AV CABLES
V	VOLUME CONTROL : ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT WITH 4S BACKBOX WITH SINGLE GANG MUD RING. CONDUIT SHALL STUB 6" ABOVE ACCESSIBLE CEILING SPACE . AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED AV CABLES.
MIP#1	MEDIA INPUT PLATE 1: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO GANG WITH PLASTER RING WITH 1" EMT CONDUIT STUB-UP 6" ABOVE ACCESSIBLE CEILING SPACE OR HOME RUN TO THE AV RACK.AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED CABLE FOR A COMPLETE INSTALLATION.
PRJ	CEILING PROJECTOR OUTLET : ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO 4S DEEP JUNCTION BOX WITH SINGLE GANG PLASTER RING SIDE BY SIDE. ONE 4S JUNCTION BOX WITH 1-1/2" EMT CONDUIT FOR AV AND ONE 4S JUNCTION BOX WITH 1" EMT CONDUIT FOR DATA ,RUN CONDUITS TO AV RACK . COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL (2) CATEGORY 6A CABLES TERMINATED WITH (2) CATEGORY 6 RJ45 JACKS IN (1)2-PORT FACEPLATE. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL HDMI. EACH CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
COL1	AUDIO VISUAL COLLECTOR BOX (COOPER B-LINE 664 SC): ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 6" x 6" x 4" PULL BOX WITH COVER AND TWO (2) 3/4" EMT CONDUITS AND (1) 1" EMT CONDUIT , ALL FOR AV USE. CONDUITS SHALL STUBBED UP TO 6" ABOVE ACCESSIBLE CEILING SPACE. AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED AV CABLES. EACH CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED SUPPORT BETWEEN ORIGIN AND TERMINATION HARDWARE.
AVR	AV PULL OUT RACK: MIDDLE ATLANTIC SRSR-2-14
CP1	CONTROL PANEL 1: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO GANG PLASTER RING FLUSH IN WALL WITH (1)1-1/4" EMT CONDUIT STUBBED UP 6" ABOVE ACCESSIBLE CEILING SPACE . AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED CABLE FOR A COMPLETE INSTALLATION.
FPD	FLAT PANEL DISPLAY OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO 4S DEEP JUNCTION BOX WITH SINGLE GANG PLASTER RING SIDE BY SIDE (ONE FOR AV AND ONE DATA). SEPARATE BOX FOR POWER. ONE 4S JUNCTION BOX WITH 1-1/2" EMT CONDUIT FOR AV AND SEPERATE 4S JUNCTION BOX FOR DATA WITH 1" EMT CONDUIT . BOTH CONDUITS (AV AND DATA) SHALL BE STUBBED UP TO 6" ABOVE ACCESSIBLE CEILING SPACE. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL (2) CATEGORY 6A CABLES TERMINATED WITH (2) CATEGORY 6 RJ45 JACKS IN (1)2-PORT FACEPLATE.
ALS	ALS (ASSISTIVE LISTENING BACK BOX) : ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4S/2G RING.AUDIO VISUAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED CABLE FOR A COMPLETE INSTALLATION.
GB	GLASS BREAK SENSOR, CEILING MOUNT: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SQUARE DEEP , SINGLE GANG JUNCTION BOX WITH ¾" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR TELECOM ROOM. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL CABLE PER REQUIREMENTS LISTED UNDER INTRUSION ALARM AND CARD ACCESS SYSTEM SCHEDULE FOR FULLY FUNCTIONAL SYSTEM.
MD	MOTION DETECTOR: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SQUARE DEEP, SINGLE GANG JUNCTION BOX WITH ¾" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR TELECOM ROOM. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL CABLE PER REQUIREMENTS LISTED UNDER SECURITY WIRE SCHEDULE FOR FULLY FUNCTIONAL SYSTEM.
H	SOUND ALARM: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SQUARE DEEP, SINGLE GANG JUNCTION BOX WITH ¾" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR TELECOM ROOM. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL CABLE PER REQUIREMENTS LISTED UNDER SECURITY WIRE SYSTEM SCHEDULE FOR FULLY FUNCTIONAL SYSTEM.
IC	INTERCOM OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4S DEEP JUNCTION BOX AT 42"A.F.F (U.O.N) WITH SINGLE GANG PLASTER RING AND 1" CONDUIT TO NEAREST TELECOM ROOM . CONTRACTOR SHALL PROVIDE AND INSTALL (1) CATEGORY 6A CABLE TERMINATED ON RJ45 JACK AND SECURITY CABLES PER SECURITY WIRE SCHEDULE. CONTRACTOR SHALL PROVIDE 6' SLACK ON CABLE FOR FINAL ADJUSTMENTS.
LHPS	LOCKING HARDWARE POWER SUPPLY: ELECTRICAL CONTRACTOR SHALL PROVIDE 120V - 20A DEDICATED 20A ON JUNCTION BOX.
LDA	LOCAL DOOR ALARM
C	DOOR CONTACT: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SQUARE JUNCTION BOX ABOVE DOOR WITH A 1" EMT CONDUIT STUBBED INTO THE NEAREST TELECOM ROOM. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUIT SUPPORT, CONNECTORS, COUPLINGS, PLASTIC BUSHINGS, PULL STRINGS, OUTLET BOX AND SINGLE GANG MUD RING. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL CABLE PER REQUIREMENTS LISTED UNDER SECURITY WIRE SCHEDULE FOR FULLY FUNCTIONAL SYSTEM.
360 IP / 180 IP	INTERIOR SECURITY CAMERA OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SQUARE DEEP JUNCTION BOX @ NO MORE THAN 120" ABOVE FINISHED FLOOR (AFF) WITH A 1" EMT CONDUIT STUBBED INTO THE NEAREST TELECOM ROOM. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUIT SUPPORT, CONNECTORS, COUPLINGS, PLASTIC BUSHINGS, PULL STRINGS, OUTLET BOX AND SINGLE GANG MUD RING. COMMUNICATION CONTRACTOR SHALL PROVIDE (1) CATEGORY 6A CABLE TERMINATED WITH MALE RJ45 CONNECTOR WITH 15' SLACK AT THE FLOOR SIDE FOR FINAL ADJUSTMENTS ON FIELD.
EX 360 IP / EX 180 IP	EXTERIOR SECURITY CAMERA OUTLET: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEMA-3R BACKBOX WITH 1" CONDUIT TO THE NEAREST TELECOM ROOM. COMMUNICATION CONTRACTOR SHALL PROVIDE (1) CATEGORY 6 CABLES TERMINATED WITH RJ45 MALE CONNECTOR. PROVIDE 15' SERVICE LOOP AT EACH LOCATION FOR FINAL ADJUSTMENTS ON FIELD.SECURITY CONTRACTOR SHALL PROVIDE, INSTALL AND CONFIGURE ALL CAMERAS FOR FULLY FUNCTION CCTV SYSTEM.

ABBREVIATIONS

[2]	DENOTES TWO OUTLETS AT SAME PLACE BUT AT DIFFERENT ELEVATION
E	ELECTRICAL OUTLET L6-20R
F	ELECTRICAL OUTLET L6-30R
A	AMPERES
ACAMS	ACCESS CONTROL AND ALARM MONITORING SYSTEM
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
ALS	ASSISTED LISTENING SYSTEM
ANT	ANTENNA
ARF	ABOVE RAISED FLOOR
AVC	AUDIOVISUAL CONTRACTOR
C	CONDUIT
CAM	CAMERA
CAT3	CATEGORY 3 (UTP CABLE)
CAT5E	CATEGORY 5E (UTP CABLE)
CAT6A	CATEGORY 6A (UTP CABLE)
CATV	COMMUNITY ANTENNA TELEVISION
CATVP	COMM. ANTENNA TELEVISION PLENUM
CB	CEILING BOX
CFCI	CONTRACTOR FURNISHED & CONTRACTOR INSTALLED
CMP	COMMUNICATIONS PLENUM RATED CABLES
CMR	COMMUNICATIONS RISER RATED CABLES
CP	CONTROL PANEL
CPU	CENTRAL PROCESSING UNIT
CTL	CONTROL
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EMS	ELECTRICAL MANAGEMENT SYSTEM
EMT	ELECTRIC METALLIC TUBING
EQUIP	EQUIPMENT
(F)	FUTURE
FB	FLOORBOX
FP	FACEPLATE
FPD	FLAT PANEL DISPLAY
GC	GENERAL CONTRACTOR
GRS	GALVANIZED RIGID STEEL
H	HIGH
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
IR	INFRARED
ISP	INSIDE PLANT
JB	JUNCTION BOX
L	LONG
LV	LOW VOLTAGE
LV1	LOW VOLTAGE INTERFACE
MBGRB BUS	MAIN BUILDING GROUNDING REFERENCE
MDF	MAIN DISTRIBUTION FACILITY
MH	MAINTENANCE HOLE
MIC	MICROPHONE
MM	MULTIMODE
MPOE	MAXIMUM POINT OF ENTRY
MTX	MATRIX
(N)	NEW
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURBISHED, CONTRACTOR INSTALLED
OFCP	OPTICAL FIBER CONDUCTIVE PLENUM
OFCR	OPTICAL FIBER CONDUCTIVE RISER
OFE	OWNER FURNISHED EQUIPMENT
OFNP	OPTICAL FIBER NON-CONDUCTING PLENUM
OFNR	OPTICAL FIBER NON-CONDUCTING RISER
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT
(P)	PROTECTED SIDE OF DOOR
PB	PULLBOX
PNL	PANEL
PR	PAIR (OF COPPER CONDUCTORS)
PRJ	PROJECTOR
PS	PROJECTOR SCREEN
PSU	POWER SUPPLY
PT	POKE-THROUGH DEVICE
PTZ	PAN/TILT/ZOOM
PVC	POLYVINYL CHLORIDE
REX	REQUEST TO EXIT
RF	RADIO FREQUENCY
RX	RECEIVER
SAD	SEE ARCHITECTURAL DRAWINGS
ScTP	SCREENED TWISTED PAIR
SEC	SECURITY EQUIPMENT CABINET
SED	SEE ELECTRICAL DRAWINGS
SM	SINGLEMODE
SPK	LOUDSPEAKER
STP	SHIELDED TWISTED PAIR
STR	STRANDS (OF FIBER OPTIC CABLE)
TBB	TELECOM BONDING BACKBONE
TBC	TELECOM BONDING CONDUCTOR
TC	TELECOM CONTRACTOR
TGB	TELECOM GROUNDING BUSBAR
TMGB	TELECOM MAIN GROUNDING BUSBAR
TP	TERMINAL PANEL
TR	TELECOMMUNICATIONS ROOM
TS	TERMINATION STRIP
TVT	TV TURNER
TX	TRANSMITTER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VC	VOLUME CONTROL
VSS	VIDEO SURVEILLANCE SYSTEM
W	WIDE
WAP	WIRELESS ACCESS POINT
WB	WALLBOX
WP	WEATHERPROOF
XFMR	TRANSFORMER

SHEET LIST - TECHNOLOGY

NUMBER	NAME
T0.1	TECHNOLOGY LEGEND, ABBREV, & GENERAL NOTES
T0.2	TECHNOLOGY RESPONSIBILITY MATRIX
T1.1	TECHNOLOGY SITE PLAN PROPOSED
T2.1	TECHNOLOGY FIRST FLOOR RCP - PHASE 1
T2.2	TECHNOLOGY SECOND FLOOR RCP - PHASE 1
T3.1	TECHNOLOGY FIRST FLOOR PLAN - PHASE 1
T3.2	TECHNOLOGY SECOND FLOOR PLAN - PHASE 1
T4.1	TECHNOLOGY ENLARGED PLANS
T5.1	TECHNOLOGY RISER DIAGRAM
T5.2	CAMERA RISER DIAGRAM AND SCHEDULE
T6.1	TECHNOLOGY DETAILS
T6.2	TECHNOLOGY DETAILS
T7.1	ROOM ELEVATION DETAILS
Grand total: 13	

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Designed by: Designer
Checked by: Checker

No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
TECHNOLOGY LEGEND, ABBREV, & GENERAL NOTES

Drawing No.
T0.1
Sheet No.

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:50:31 PM

Integral Group	IG
OWNER	**OWNER (OPRYD/ITD)**
ARCHITECT	**ARCHITECT**
Contractors: [Audio Visual (AV) , Communication Contractor (CC), Security Contractor (SEC) , Electrical Contractor (EC), Mechanical (MC) and General Contractor (GC)]	**[Contractor(s)]**

		Planning and Design				Specification				Procurement		Installation	
#	TASK	IG	ARCH	OWNER	CONTRACTOR	IG	ARCH	OWNER	CONTRACTOR	OWNER	CONTRACTOR	OWNER	CONTRACTOR
	INFRASTRUCTURE TO SUPPORT VOICE/DATA, AUDIO VISUA...												
1	Conduits , faceplates, backboxes, floor boxes, poke-thrus	●				●					●		●
2	Passive equipment such as patch panels, 110-block and cable management, and equipment racks	●				●					●		●
3	Equipment Racks	●				●					●		●
4	Voice and Data Cabling (i.e Copper station cable, patch cords , copper high strand count, fiber high strand count, fiber patch cords) and power	●				●					●		●
5	Audio Visual Cabling (i.e USB, HDMI, VGA, Audio aux and Speaker cable)			●				●		●		●	
6	Security Cabling (i.e AWG 22/6 , 22/4, 18/2, 18/4 and 14/2)	●				●					●		●
7	Power to all equipment locations	●				●					●		●
8	Cooling	●				●					●		●
	AUDIO VISUAL SYSTEMS	Design team plans infrastrtructure (location, backboxes, conduits, cables and backing if required)											
9	Teacher PC & Laptop	●	●					●		●		●	
10	Interactive Board/White Board	●	●					●		●		●	
11	Projector Mount	●	●					●		●		●	
12	Document Camera	●						●		●		●	
13	DVD/Blue ray Player	●	●					●		●		●	
14	Displays	●	●					●		●		●	
15	Display Brackets	●	●					●		●		●	
16	Manual Screen Bracket	●	●					●		●		●	
17	Manual Screen	●	●					●		●		●	
18	AV racks	●						●		●		●	
19	PDU	●						●		●		●	
20	Rack mount UPS	●				●				●		●	
21	Network Switch	●						●			●		●
22	Switch & Controls	●						●			●		●
23	Speakers (AV)	●	●					●		●		●	
24	Amplifiers	●	●					●		●		●	
25	Microphones	●						●		●		●	
	Public Address System (Not in Scope - Add Alternate)												
26	Speakers (PA), backcan and supports	●	●			●					●		●
27	Ampfilers and PA equipment	●	●			●					●		●
	Security (Video Surveillance System)												
28	Cameras	●	●			●					●		●
29	Network Video Recorder (NVR)	●				●					●		●
30	Server	●				●					●		●
31	Network Switch	●				●					●		●
32	Cameras & brackets	●	●			●					●		●
33	Surveillance System Platform	●				●					●		●
34	Desktop & PC for Monitoring	●				●				●		●	
	Security (Intrusion Dection System)												
41	Sensors (motion sensors, glass breaks and ect.)	●				●					●		●
42	Intrusion Detection System Platform	●				●					●		●
43	Server	●				●					●		●
44	Desktop & PC for Monitoring	●				●				●		●	
	Network Equipment												
45	Wireles Access Points	●	●					●		●		●	
46	Switches, Servers , Hubs and other network equipment	●						●		●		●	
47	Computers, phones, printers, faxes	●	●					●		●		●	

1 T0.2 RESPONSIBILTY MATRIX

N.T.S.

GENERAL NOTES

A. ALL AV EQUIPMENT SELECTED BY OWNER , DOCUMENTS INCLUDES INFRASTRUCTURE REQUIRED (CONDUIT , BACKBOXES, POWER) TO SUPPORT OWNER SELECTED AV EQUIPMENT.

B. ALL NETWORK EQUIPMENT SUCH AS SERVERS, SWITCHES, WIRELESS ACCESS POINTS , WIRELESS CONTROLER, HUBS, COMPUTER , TELEPHONE AND OTHER REQUIRED EQUIPMENT FOR A COMPLETE NETWORK SELECTED AND PROVIDED BY OWNER. DOCUMENTS INCLUDES INFRASTRUCTURE REQUIRED TO SUPPORT NETWORK (EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGERS, CABLES , FACEPLATES , CONDUIT , BACKBOXES, POWER , GROUNDING .

C. VIDEO SURVEILLANCE SYSTEMS SHALL BE END TO END, TURNKEY AND INCLUDE ALL REQUIRED COMPONENTS FOR A COMPLETE VIDEO SURVEILLANCE SYSTEM.

D. INTRUSION DETECTION SYSTEMS SHALL BE END TO END, TURNKEY AND INCLUDE ALL REQUIRED COMPONENTS FOR A COMPLETE INTRUSION SURVEILLANCE SYSTEM.

E. PUBLIC ADDRESS SYSTEM SHALL BE END TO END TURNKEY AND INCLUDE ALL REQUIRED COMPONENTS FOR A COMPLETE PUBLIC ADDRESS SYSTEM.

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Project Information

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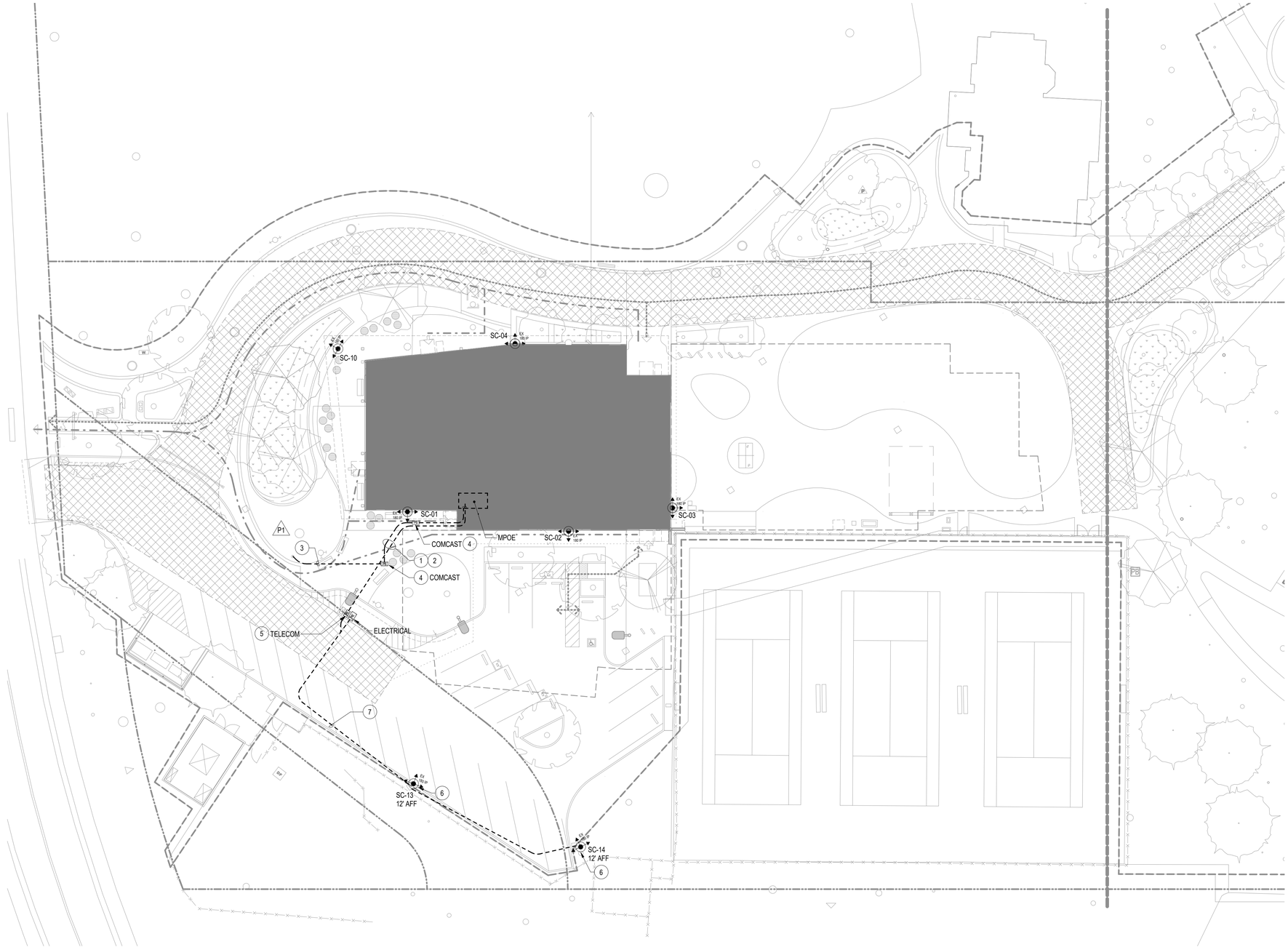
Drawing Title

TECHNOLOGY RESPONSIBILITY MATRIX

Drawing No.

T0.2

Sheet No.



1 T1.1 TECHNOLOGY - SITE PLAN
SCALE: 1" = 20'-0"

GENERAL NOTES

A. INSTALL CONDUIT PATHWAY PER ANSI/TI-569-B AND BUILDING INDUSTRIES CONSULTING SERVICES INTERNATIONAL (BICSI) "TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL" (TDMM).

B. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC, UON DETERMINE CONDUIT ROUTES IN THE FIELD TO SUITE FIELD CONDITIONS WHILE CONFORMING TO SPECIFICATIONS. PREPARE SHOP DRAWINGS SHOWING EXACT CONDUIT ROUTES, INDICATING PENETRATION TYPES (E.G., FRAMED WALL, CONCRETE WALL, ETC.) COORDINATE REQUIREMENTS WITH OTHER TRADES.

C. WHEN PROVIDING BENDS IN CONDUIT RUNS, PROVIDE BENDS WITH RADII NO LESS THAN AS FOLLOWS:
   a. CONDUITS LESS THAN 2-INCH TRADE SIZE = SIX TIMES THE INSIDE DIAMETER.
   b. CONDUITS 2-INCH OR GREATER TRADE SIZE = TEN TIMES THE INSIDE DIAMETER.

D. THERE SHALL BE NO MORE THAN EQUIVALENT OT TWO 90 DEGREES BENDS (TOTAL 180 DEGREES) IN CONTINUOUS CONDUIT RUN.

E. WHEN ROUTING CONDUIT IN CONCRETE, PLACE CONDUITS ONTO FORMS WITH A GRADUATED BEND RADIUS TO MITIGATE CAPACITY REDUCTIONS. THE USE OF 90-DEGREE ELBOWS IS EXPRESSLY PROHIBITED OTHER THAN TUNING UP OR DOWN OUT OF CONCRETE UNLESS PRIOR AUTHORIZATION IS RECEIVED IN WRITING FROM THE OWNER OR OWNER'S REPRESENTATIVE.

F. PROVIDE UNISTRUT SUPPORTS AT MINIMUM OF TWO EVENLY SPACED LOCATIONS FOR EVERY 10' OF CONDUIT.

G. OUTSIDE PLAN CONDUIT SHALL BE 40 PVC OR EQUIVALENT.

H. OUTSIDE PLANT CONDUITS SHALL HAVE PLASTIC BUSHINGS AT THE BUILDING SIDE END.

I. ALL CONDUITS, SUB CHANNEL AND/OR INNER-DUCT SHALL BE SEALED AT THE BUILDING END TO PREVENT RODENTS, WATER OR GASES FROM ENTERING THE BUILDING.

J. SECURITY CONTRACTOR TO ENSURE ALL CAMERAS WITH DISTANCES OVER 295' ARE TO BE CONNECTED VIA FIBER CONNECTION.

K. SECURITY CONTRACTOR SHALL COORDINATE WITH POLE MANUFACTURER MOUNTING PRIOR INSTALLATION.

L. SERVICE UTILITIES (VOICE, DATA/INTERNET AND CATV) WAS NOT SELECTED PRIOR THE DEVELOPMENT OF THIS DOCUMENT. GENERAL CONTRACTOR SHALL CONFIRM WITH OWNER AND DRY UTILITY EXACT LOCATION OF MAINTENANCE HOLE (OR PULL BOX) IS SUBJECT TO CHANGE DEPENDING ON SERVICE PROVIDER CONNECTIONS FROM THE STREET.

M. FOR ALL EXTERIOR WALL MOUNTED CAMERA, REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT.

N. REFER TO JOINT TRENCH DRAWINGS JT1.2 FOR ADDITIONAL INFORMATION.

SHEET NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 2" CONDUIT FOR COMCAST IN SHARED TRENCH WITH ELECTRICAL (REFER TO JOINT TRENCH DRAWINGS JT1.2).
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (1) 2" CONDUIT FOR PARK CAMERA IN SHARED TRENCH WITH ELECTRICAL (REFER TO JOINT TRENCH DRAWINGS JT1.2).
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 2" CONDUIT FOR COMCAST.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 17"x30"x18" PULL BOX FOR COMCAST. CONTRACTOR SHALL VALIDATE AND COORDINATE EXACT LOCATION WITH OPYRD PRIOR TO COMMENCING WORK.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 17"x30"x18" PULL BOX FOR PARKADE CAMERA. CONTRACTOR SHALL VALIDATE AND COORDINATE EXACT LOCATION WITH OPYRD PRIOR TO COMMENCING WORK.
6. SECURITY CAMERA LOCATION MOUNTED ON LIGHT POLE (FIELD VERIFY EXACT LOCATION). (REFER TO ELECTRICAL DRAWINGS E1.01).
7. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 1" CONDUIT FOR DATA CABLE FOR SECURITY CAMERAS ON LIGHT POLE, CONDUIT SHALL RUN IN THE SAME TRENCH WITH ELECTRICAL (REFER TO ELECTRICAL DRAWINGS E1.01).

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Project Information
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Drawing Title
TECHNOLOGY SITE PLAN PROPOSED

Drawing No.
T1.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:50:40 PM

GENERAL NOTES

A. INSTALL CONDUIT PATHWAY PER ANSI/TI-569-B AND BUILDING INDUSTRIES CONSULTING SERVICES INTERNATIONAL (BICSI) "TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL" (TDMM).

B. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC, UON.DETERMINE CONDUIT ROUTES IN THE FIELD TO SUITE FIELD CONDITIONS WHILE CONFORMING TO SPECIFICATIONS. PREPARE SHOP DRAWINGS SHOWING EXACT CONDUIT ROUTES, INDICATING PENETRATION TYPES (E.G., FRAMED WALL, CONCRETE WALL, ETC.) COORDINATE REQUIREMENTS WITH OTHER TRADES.

C. WHEN PROVIDING BENDS IN CONDUIT RUNS, PROVIDE BENDS WITH RADII NO LESS THAN AS FOLLOWS:

   a. CONDUITS LESS THAN 2-INCH TRADE SIZE = SIX TIMES THE INSIDE DIAMETER.
   b. CONDUITS 2-INCH OR GREATER TRADE SIZE = TEN TIMES THE INSIDE DIAMETER.

D. THERE SHALL BE NO MORE THAN EQUIVALENT OF TWO 90 DEGREES BENDS (TOTAL 180 DEGREES) IN CONTINUOUS CONDUIT RUN.

E. WHEN ROUTING CONDUIT IN CONCRETE, PLACE CONDUITS ONTO FORMS WITH A GRADUATED BEND RADIUS TO MITIGATE CAPACITY REDUCTIONS. THE USE OF 90-DEGREE ELBOWS IS EXPRESSLY PROHIBITED OTHER THAN TUNING UP OR DOWN OUT OF CONCRETE UNLESS PRIOR AUTHORIZATION IS RECEIVED IN WRITING FROM THE OWNER, OR OWNER'S REPRESENTATIVE.

F. PROVIDE UNISTRUT SUPPORTS AT MINIMUM OF TWO EVENLY SPACED LOCATIONS FOR EVERY 10' OF CONDUIT.

G. SECURITY CONTRACTOR TO ENSURE ALL CAMERAS WITH DISTANCES OVER 295' ARE TO BE CONNECTED VIA FIBER CONNECTION.

H. ALL SPACES WITH FULL HEIGHT WALLS, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AS NEEDED FOR CABLE CONVEYANCE FROM EACH SPACE TO THE NEAREST CABLE TRAY OR ACCESSIBLE CEILING SPACE. CONDUIT FILL RATIO SHALL NOT EXCEED 40%.

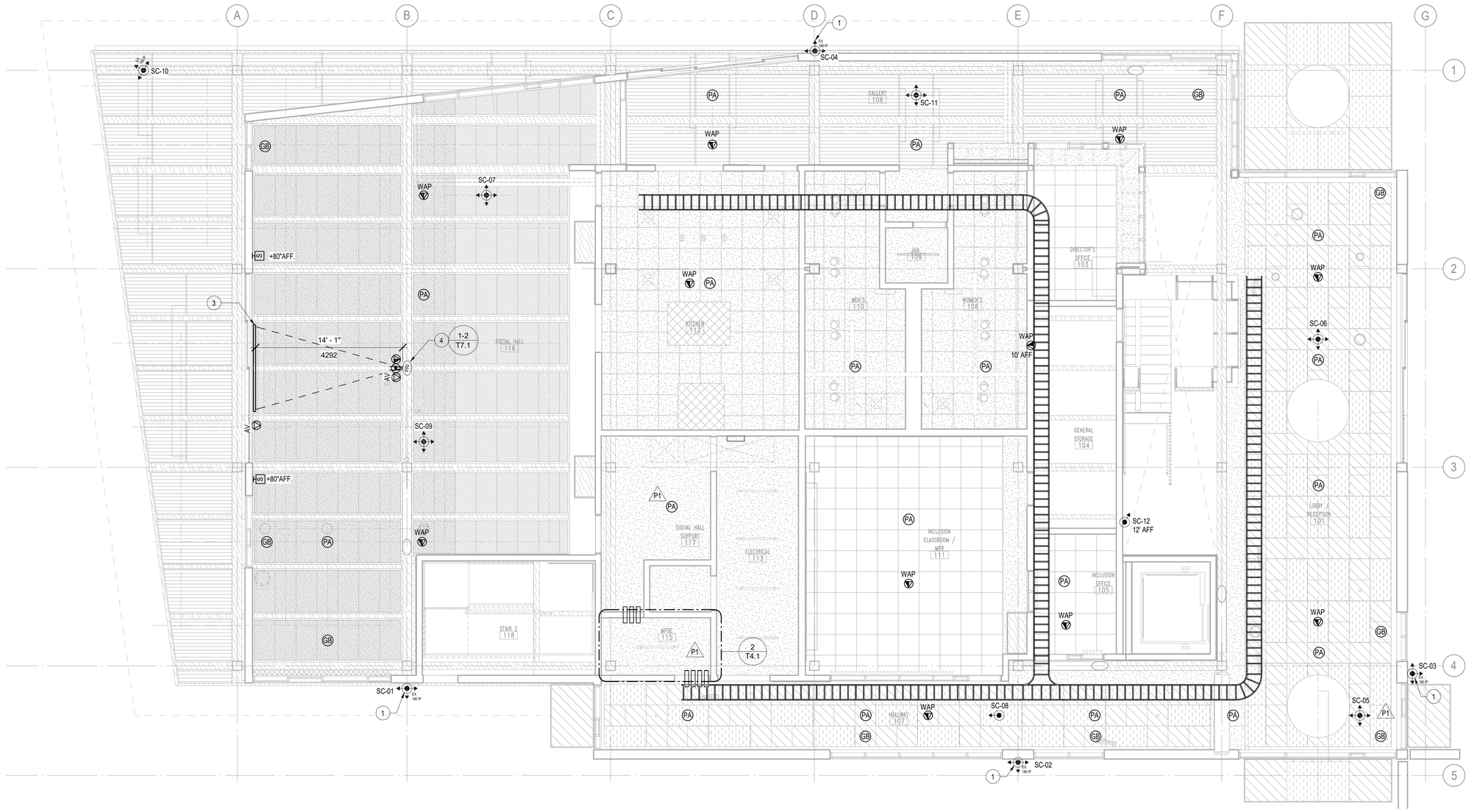
I. PULL AND JUNCTION BOXES SHALL BE PROVIDED ACCORDINGLY TO NEC, ARTICLE 314.

J. CONDUIT SHALL BE INSTALLED AS COMPLETE SYSTEM IN ACCORDANCE WIHT ARTICLE 300.18 AND SHALL BE SECURELY FASTENED IN PLACE AND SUPPORTED IN ACCORDANCE TO NEC ARTICLE 358.30 (A AND B).

K. PA SYSTEM IS DESIGN BUILD SYSTEM, TO BE PROVIDED BY CONTRACTOR AS ADD ALTERNATE.

SHEET NOTES

1. FOR ALL EXTERIOR WALL MOUNTED CAMERA, REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT. (CAMERA ALSO SHOWN IN T1.1).
2. PROVIDE ACCESS HATCH.
3. OWNER PROVIDED MANUAL PULL-DOWN PROJECTOR SCREEN.
4. PROVIDE CEILING MOUNT FOR OWNER FURNISHED PROJECTOR. COORDINATE LOCATION WITH ARCHITECT.
5. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.



1 T2.1 TECHNOLOGY - FIRST FLOOR RCP
SCALE: 3/16" = 1'-0"

8 4 0 8

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Drawing Title
TECHNOLOGY FIRST FLOOR RCP - PHASE 1

Drawing No.
T2.1

Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:30:48 PM

GENERAL NOTES

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B. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC, UON.DETERMINE CONDUIT ROUTES IN THE FIELD TO SUITE FIELD CONDITIONS WHILE CONFORMING TO SPECIFICATIONS. PREPARE SHOP DRAWINGS SHOWING EXACT CONDUIT ROUTES, INDICATING PENETRATION TYPES (E.G., FRAMED WALL, CONCRETE WALL, ETC.) COORDINATE REQUIREMENTS WITH OTHER TRADES.

C. WHEN PROVIDING BENDS IN CONDUIT RUNS, PROVIDE BENDS WITH RADII NO LESS THAN AS FOLLOWS:

   a. CONDUITS LESS THAN 2-INCH TRADE SIZE = SIX TIMES THE INSIDE DIAMETER.
   b. CONDUITS 2-INCH OR GREATER TRADE SIZE = TEN TIMES THE INSIDE DIAMETER.

D. THERE SHALL BE NO MORE THAN EQUIVALENT OF TWO 90 DEGREES BENDS (TOTAL 180 DEGREES) IN CONTINUOUS CONDUIT RUN.

E. WHEN ROUTING CONDUIT IN CONCRETE, PLACE CONDUITS ONTO FORMS WITH A GRADUATED BEND RADIUS TO MITIGATE CAPACITY REDUCTIONS. THE USE OF 90-DEGREE ELBOWS IS EXPRESSLY PROHIBITED OTHER THAN TUNING UP OR DOWN OUT OF CONCRETE UNLESS PRIOR AUTHORIZATION IS RECEIVED IN WRITING FROM THE OWNER, OR OWNER'S REPRESENTATIVE.

F. PROVIDE UNISTRUT SUPPORTS AT MINIMUM OF TWO EVENLY SPACED LOCATIONS FOR EVERY 10' OF CONDUIT.

G. SECURITY CONTRACTOR TO ENSURE ALL CAMERAS WITH DISTANCES OVER 295' ARE TO BE CONNECTED VIA FIBER CONNECTION.

H. ALL SPACES WITH FULL HEIGHT WALLS, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AS NEEDED FOR CABLE CONVEYANCE FROM EACH SPACE TO THE NEAREST CABLE TRAY OR ACCESSIBLE CEILING SPACE. CONDUIT FILL RATIO SHALL NOT EXCEED 40%.

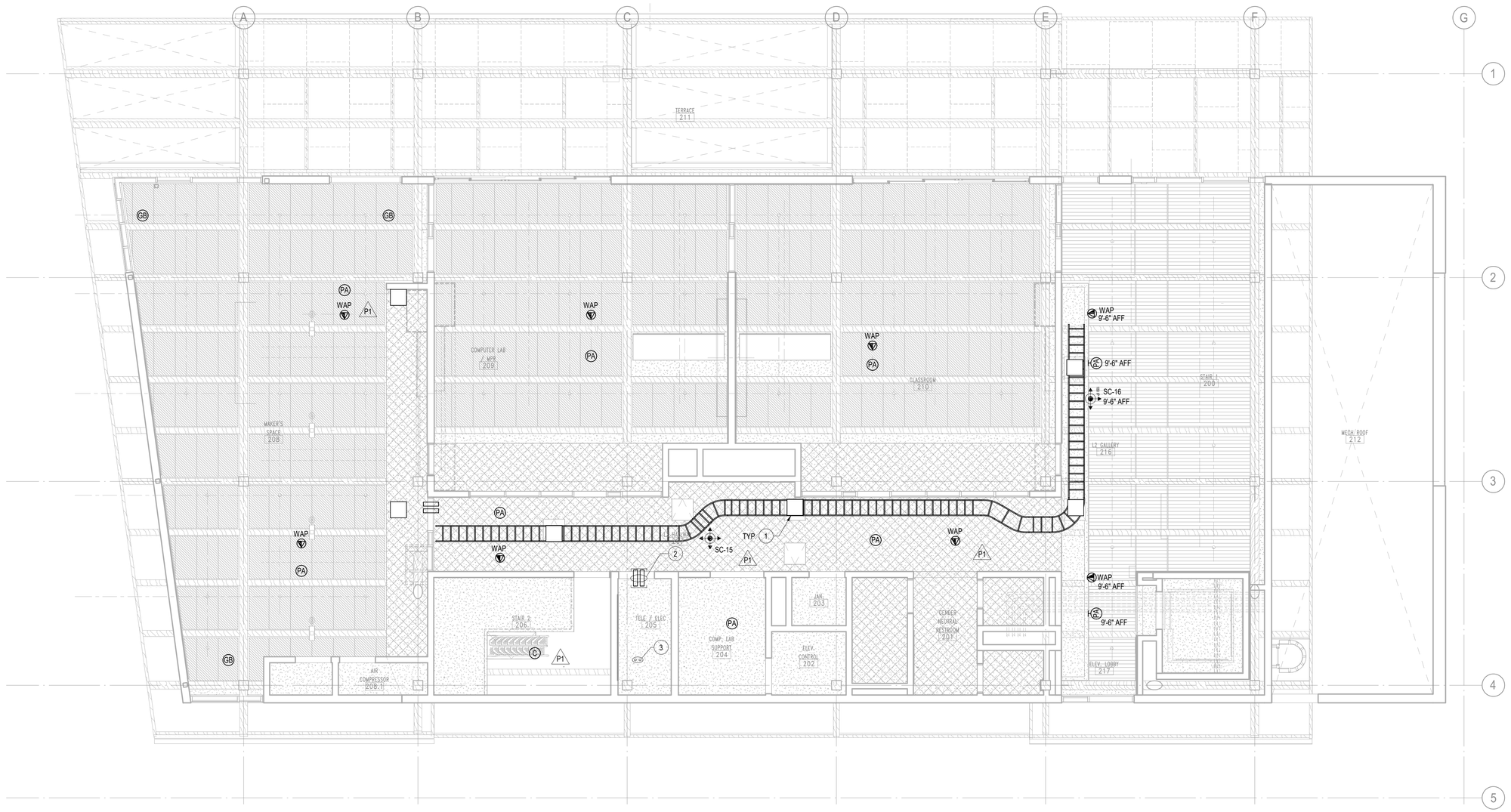
I. PULL AND JUNCTION BOXES SHALL BE PROVIDED ACCORDINGLY TO NEC, ARTICLE 314.

J. CONDUIT SHALL BE INSTALLED AS COMPLETE SYSTEM IN ACCORDANCE WIHT ARTICLE 300.18 AND SHALL BE SECURELY FASTENED IN PLACE AND SUPPORTED IN ACCORDANCE TO NEC ARTICLE 358.30 (A AND B).

K. PA SYSTEM IS DESIGN BUILD SYSTEM, TO BE PROVIDED BY CONTRACTOR AS ADD ALTERNATE.

SHEET NOTES

1. PROVIDE ACCESS HATCH.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 4" CONDUIT SLEEVES FOR CABLE CONVEYANCE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 2" CONDUIT SLEEVES WITH WEATHERHEAD.



1 / T2.2 TECHNOLOGY - SECOND FLOOR RCP

SCALE: 3/16" = 1'-0"

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Designed by: Designer
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No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information

3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title

TECHNOLOGY SECOND FLOOR RCP - PHASE 1

Drawing No.

T2.2

Sheet No.

LMSa PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:50:54 PM

GENERAL NOTES

A. INSTALL CONDUIT PATHWAY PER ANSI/TI-569-B AND BUILDING INDUSTRIES CONSULTING SERVICES INTERNATIONAL (BICSI) "TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL" (TDMM).

B. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC, UON.DETERMINE CONDUIT ROUTES IN THE FIELD TO SUITE FIELD CONDITIONS WHILE CONFORMING TO SPECIFICATIONS. PREPARE SHOP DRAWINGS SHOWING EXACT CONDUIT ROUTES, INDICATING PENETRATION TYPES (E.G., FRAMED WALL, CONCRETE WALL, ETC.) COORDINATE REQUIREMENTS WITH OTHER TRADES.

C. WHEN PROVIDING BENDS IN CONDUIT RUNS, PROVIDE BENDS WITH RADII NO LESS THAN AS FOLLOWS:

   a. CONDUITS LESS THAN 2-INCH TRADE SIZE = SIX TIMES THE INSIDE DIAMETER.
   b. CONDUITS 2-INCH OR GREATER TRADE SIZE = TEN TIMES THE INSIDE DIAMETER.

D. THERE SHALL BE NO MORE THAN EQUIVALENT OF TWO 90 DEGREES BENDS (TOTAL 180 DEGREES) IN CONTINUOUS CONDUIT RUN.

E. WHEN ROUTING CONDUIT IN CONCRETE, PLACE CONDUITS ONTO FORMS WITH A GRADUATED BEND RADIUS TO MITIGATE CAPACITY REDUCTIONS. THE USE OF 90-DEGREE ELBOWS IS EXPRESSLY PROHIBITED OTHER THAN TUNING UP OR DOWN OUT OF CONCRETE UNLESS PRIOR AUTHORIZATION IS RECEIVED IN WRITING FROM THE OWNER, OR OWNER'S REPRESENTATIVE.

F. PROVIDE UNISTRUT SUPPORTS AT MINIMUM OF TWO EVENLY SPACED LOCATIONS FOR EVERY 10' OF CONDUIT.

G. SECURITY CONTRACTOR TO ENSURE ALL CAMERAS WITH DISTANCES OVER 295' ARE TO BE CONNECTED VIA FIBER CONNECTION.

H. ALL SPACES WITH FULL HEIGHT WALLS, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AS NEEDED FOR CABLE CONVEYANCE FROM EACH SPACE TO THE NEAREST CABLE TRAY OR ACCESSIBLE CEILING SPACE. CONDUIT FILL RATIO SHALL NOT EXCEED 40%.

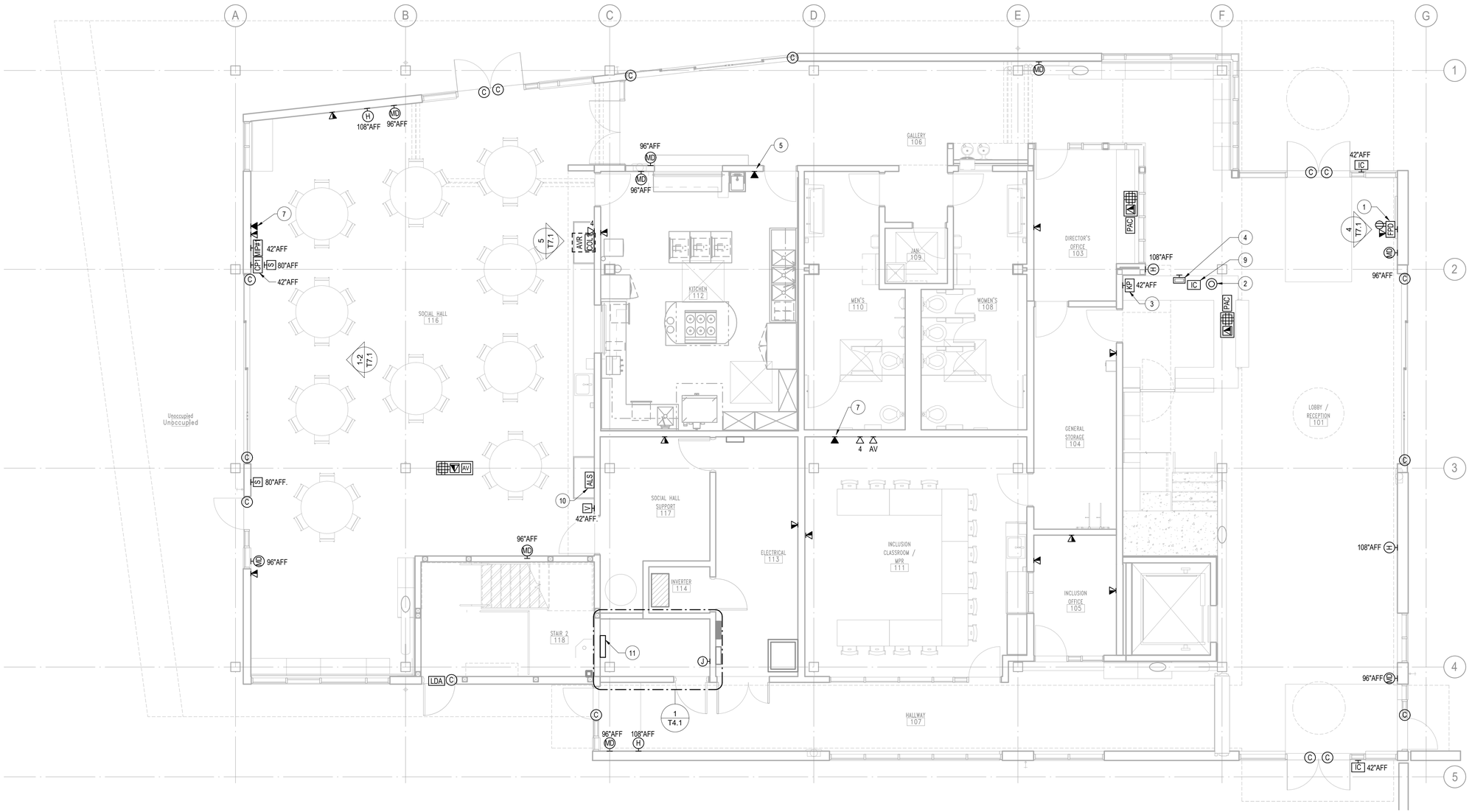
I. PULL AND JUNCTION BOXES SHALL BE PROVIDED ACCORDINGLY TO NEC, ARTICLE 314.

J. CONDUIT SHALL BE INSTALLED AS COMPLETE SYSTEM IN ACCORDANCE WIHT ARTICLE 300.18 AND SHALL BE SECURELY FASTENED IN PLACE AND SUPPORTED IN ACCORDANCE TO NEC ARTICLE 358.30 (A AND B).

K. PA SYSTEM IS DESIGN BUILD SYSTEM, TO BE PROVIDED BY CONTRACTOR AS ADD ALTERNATE.

SHEET NOTES

1. PROVIDE WALL MOUNT DATA DROP FOR DIGITAL DISPLAY. COORDINATE HEIGHT WITH ARCHITECT.
2. SECURITY CONTRACTOR TO PROVIDE DURESS BUTTON MOUNTED UNDER DESK.
3. SECURITY CONTRACTOR TO PROVIDE ALARM KEYPAD FOR ZONE 1.
4. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL DESKTOP, VIDEO SURVEILLANCE SOFTWARE AND LICENSES FOR A COMPLETE AND TURNKEY SURVEILLANCE SYSTEM. CONTRACTOR SHALL CONFIRM WITH OWNER PRIOR TO INSTALLATION.
5. PROVIDE PHONE OUTLET FOR FAX/PHONE.
6. SECURITY CONTRACTOR TO PROVIDE DOOR CONTACT.
7. PROVIDE PHONE OUTLET FOR TEACHER'S PHONE.
8. PROVIDE CONDUIT AND BACKING FOR AV WALL MOUNTED SPEAKERS (OFOI). COORDINATE FINAL LOCATION WITH ARCHITECT.
9. INTERCOM MASTER STATION WITH DOOR RELEASE..
10. COORDINATE LOCATION WITH CASEWORK.
11. PA SYSTEM IS DESIGN BUILD, ADD ALTERNATE SYSTEM CONTRACTOR SHALL PROVIDE A COMPLETE TURN KEY PA SYSTEMS, HEADEND EQUIPMENT SHALL RESIDE IN MPOE, AND PA CONSOLE AT THE RECEPTION DESK AND DIRECTOR OFFICE.



1 / T3.1 TECHNOLOGY - FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

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Drawing Title
TECHNOLOGY FIRST FLOOR PLAN - PHASE 1

Drawing No.
T3.1
Sheet No.

LMSA PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:51:01 PM

GENERAL NOTES

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C. WHEN PROVIDING BENDS IN CONDUIT RUNS, PROVIDE BENDS WITH RADII NO LESS THAN AS FOLLOWS:

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b. CONDUITS 2-INCH OR GREATER TRADE SIZE = TEN TIMES THE INSIDE DIAMETER.

D. THERE SHALL BE NO MORE THAN EQUIVALENT OF TWO 90 DEGREES BENDS (TOTAL 180 DEGREES) IN CONTINUOUS CONDUIT RUN.

E. WHEN ROUTING CONDUIT IN CONCRETE, PLACE CONDUITS ONTO FORMS WITH A GRADUATED BEND RADIUS TO MITIGATE CAPACITY REDUCTIONS. THE USE OF 90-DEGREE ELBOWS IS EXPRESSLY PROHIBITED OTHER THAN TUNING UP OR DOWN OUT OF CONCRETE UNLESS PRIOR AUTHORIZATION IS RECEIVED IN WRITING FROM THE OWNER, OR OWNER'S REPRESENTATIVE.

F. PROVIDE UNISTRUT SUPPORTS AT MINIMUM OF TWO EVENLY SPACED LOCATIONS FOR EVERY 10' OF CONDUIT.

G. SECURITY CONTRACTOR TO ENSURE ALL CAMERAS WITH DISTANCES OVER 295' ARE TO BE CONNECTED VIA FIBER CONNECTION.

H. ALL SPACES WITH FULL HEIGHT WALLS, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AS NEEDED FOR CABLE CONVEYANCE FROM EACH SPACE TO THE NEAREST CABLE TRAY OR ACCESSIBLE CEILING SPACE. CONDUIT FILL RATIO SHALL NOT EXCEED 40%.

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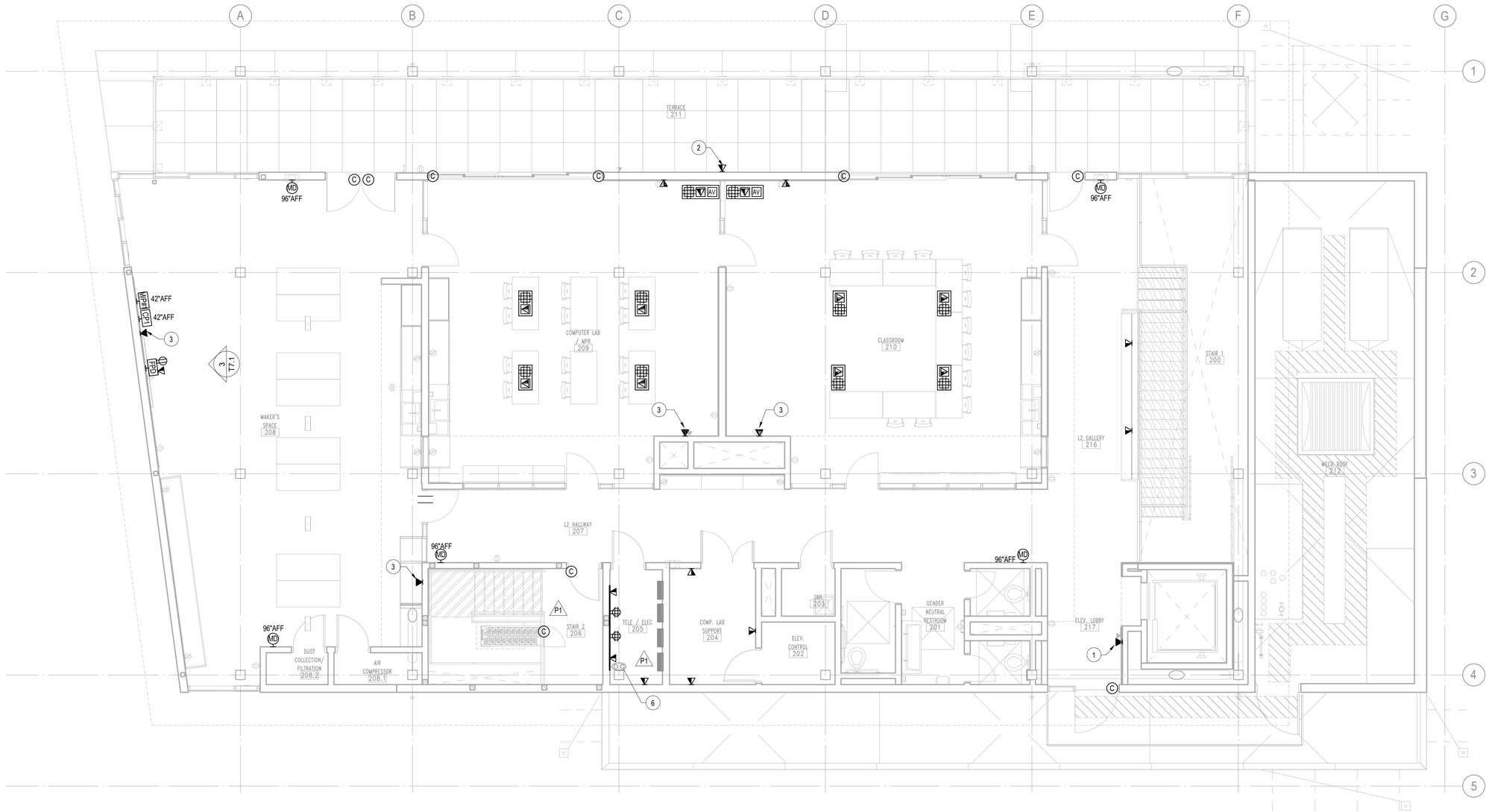
K. PA SYSTEM IS DESIGN BUILD SYSTEM, TO BE PROVIDED BY CONTRACTOR AS ADD ALTERNATE.

SHEET NOTES

1. PHONE OUTLET FOR AREA OF REFUGE SYSTEM. ELECTRICAL AND COMMUNICATION CONTRACTOR SHALL VERIFY AND CONFIRM WITH THE ELEVATOR CONTRACTOR, LOCATION AND REQUIREMENTS PRIOR TO INSTALLATION OF ANALOG LINE (EMERGENCY PHONE LINE).
2. WALL MOUNTED EXTERIOR ACCESS POINT. COORDINATE LOCATION WITH ARCHITECT.
3. PROVIDE PHONE OUTLET FOR TEACHER'S PHONE.
4. WALL MOUNTED DATA OUTLET FOR FLAT PANEL DISPLAY. (COORDINATE MOUNTING HEIGHT).
5. WALL MOUNTED DATA OUTLET FOR AV CONTROLS, MOUNT AT 42" AFF.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 4" CONDUIT SLEEVES. .



1 / T3.2 TECHNOLOGY - SECOND FLOOR PLAN FIN. FLR.
SCALE: 3/16" = 1'-0"

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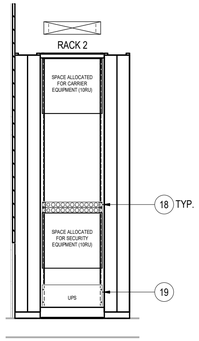
TECHNOLOGY SECOND FLOOR PLAN - PHASE 1

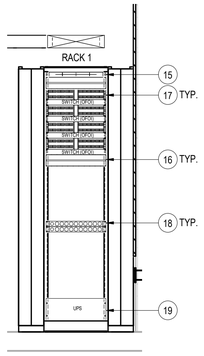
Drawing No.
T3.2

Sheet No.

LMSa PROJECT NUMBER: 1902

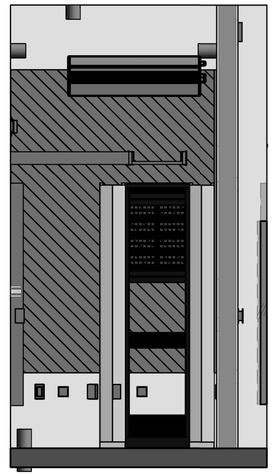
PLOT DATE: 7/15/2022 4:51:06 PM



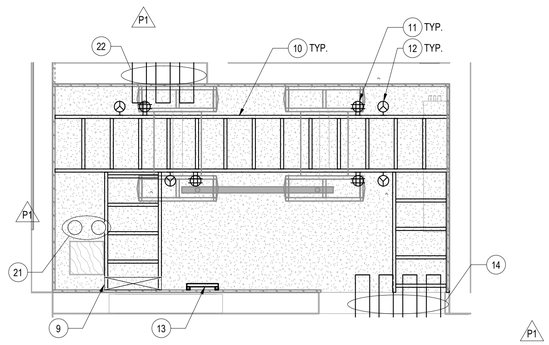


5 T4.1 MDF RACK 2
SCALE: 1/2" = 1'-0"

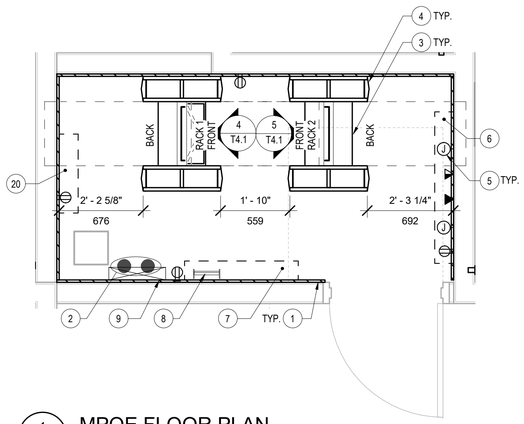
4 T4.1 MDF RACK 1
SCALE: 1/2" = 1'-0"



3 T4.1 MPOE ROOM - 3D
SCALE:



2 T4.1 MPOE OVERHEAD PLAN
SCALE: 1/2" = 1'-0"



1 T4.1 MPOE FLOOR PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM OF 50 FOOT CABLES MEASURED 3'ABOVE THE FINISHED FLOOR IN THE MIDDLE OF AISLES BETWEEN RACKS. LIGHT SHALL BE CONTROLLED BY ONE SWITCH LOCATED NEAR THE ENTRANCE DOOR.

B. THE TEMPERATURE WITHIN THE TELECOM ROOM SHALL RANGE BETWEEN 68°F TO 74°F. PROVIDE A THERMOSTAT NEAR ENTRANCE DOOR.

C. TELECOM ROOM SHALL BE PROVIDED WITH HVAC 24 HOURS PER DAY AND 365 DAYS PER YEAR TO SUPPORT EQUIPMENT LOAD PROVIDED.

D. ALL WALL OUTLETS WITHIN THE TELECOM ROOM SHALL BE FLUSH MOUNT, NOT SURFACE MOUNT (U.O.N).

E. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL PATCH CABLES UP TO SWITCH PORTS.

F. TELECOM ROOM SHOULD BE 2HR-RATED CONSTRUCTION .

G. IT IS THE CABLING CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CONFIRM REQUIRED QUANTITIES FOR A COMPLETE SCOPE WORK TO MEET DESIGN INTENT.

SHEET NOTES

1. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ¾"A/C GRADE FIRE RATED PLYWOOD, LEAVE THE FIRE STAMP EXPOSED AND PAINT THE REST OF PLYWOOD TO MATCH. PLYWOOD SHALL BE 8'LONG WITH BOTTOM MOUNTED AT 24"ABOVE FINISHED FLOOR.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2)4" CONDUITS (SEE T1.1).
3. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL 19"x7' 2-POST EQUIPMENT RACK.
4. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL 8" DOUBLE SIDED VERTICAL CABLE MANAGER.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE DEDICATED 120V - 20A ON JUNCTION BOX FOR SECURITY PANEL.
6. SPACE ALLOCATED FOR SECURITY IDS EQUIPMENT.
7. SPACE ALLOCATED FOR DEMARC EQUIPMENT.
8. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL COPPER TERMINATION FIELD (110 BLOCK) ON WALL.
9. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL 18"VERTICAL LADDER RACK.
10. COMMUNICATION CONTRACTOR SHALL PROVIDE AND INSTALL 18"LADDER RACK 6" ABOVE EQUIPMENT RACK AS SHOWN.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (1) QUAD NEMA 5-20R SIDE OF LADDER RACK. OUTLET SHALL BE BACK-UP BY GENERATOR.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL L5-30R AT SIDE OF LADDER RACK. OUTLET SHALL BE BACK-UP BY GENERATOR.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL GROUND BUS BAR 6" ABOVE LADDER RACK.
14. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL (4) 4" CONDUIT SLEEVES FOR CABLE CONVEYANCE. P1
15. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL 1RU FIBER PATCH PANEL.
16. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL 2RU HORIZONTAL CABLE MANAGEMENT.
17. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL 2RU ANGLED 48-PORT COPPER PATCH PANEL TO SUPPORT HORIZONTALCABLES.
18. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL RACK MOUNT PDU.
19. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL RACK MOUNT UPS.
20. SPACE ALLOCATED FOR WALL MOUNT PA EQUIPMENT.
21. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL (2) 4" CONDUIT SLEEVES FOR FLOOR ABOVE FOR CABLE CONVEYANCE.
22. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL (3) 4" CONDUIT SLEEVES FOR CABLE CONVEYANCE P1

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Project Information
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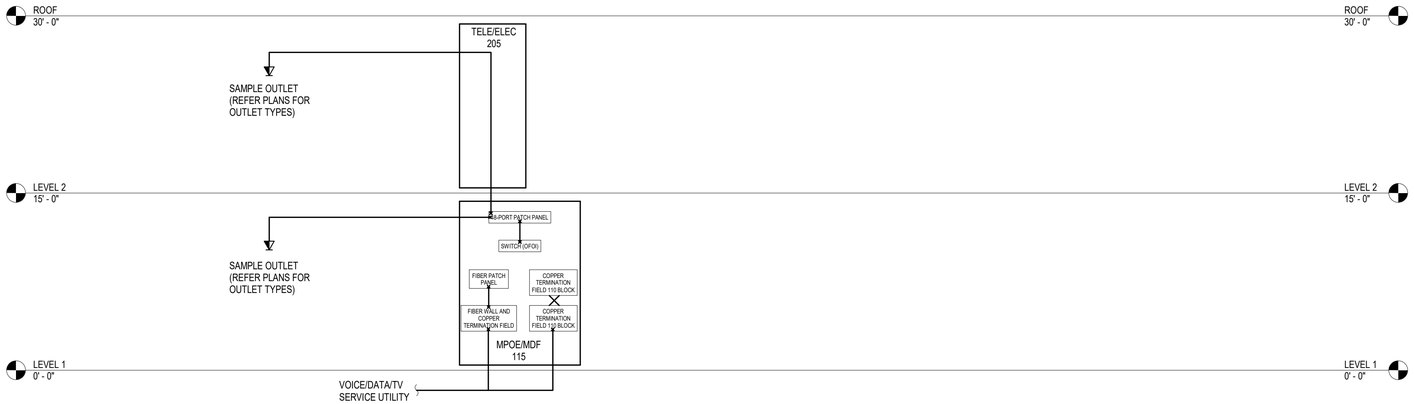
Drawing Title
TECHNOLOGY ENLARGED PLANS

Drawing No.
T4.1

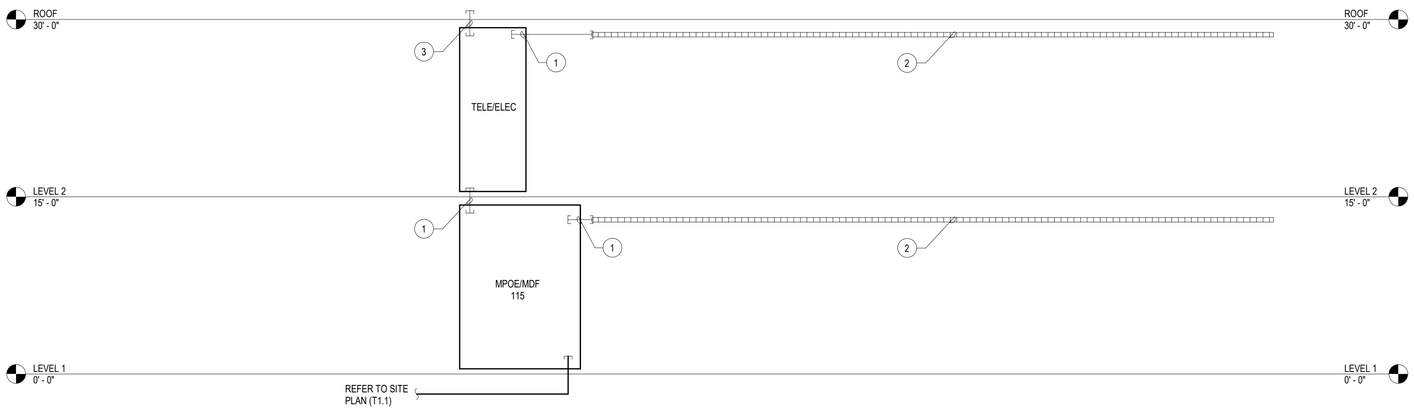
Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:51:15 PM



2 T5.1 TECHNOLOGY FIBER AND COPPER RISER DIAGRAM



1 T5.1 TECHNOLOGY CONDUIT RISER DIAGRAM

GENERAL NOTES

A. SERVICE UTILITIES (VOICE, DATA/INTERNET AND CATV) WAS NOT SELECTED PRIOR THE DEVELOPMENT OF THIS DOCUMENTS. GENERAL CONTRACTOR SHALL CONFIRM WITH OWNER AND DRY UTILITY EXACT LOCATION OF MAINTENANCE HOLE (OR PULL BOX) IS SUBJECT TO CHANGE DEPENDING ON SERVICE PROVIDER CONNECTIONS FROM THE STREET.

B. CONDUIT SHALL RUN IN THE MOST DIRECT ROUTE POSSIBLE (USUALLY PARALLEL TO BUILDING LINES), WITH NO MORE THAN TWO 90 DEGREE BENDS AT ANY DIMENSIONAL PLANE BETWEEN PULL POINTS OR PULL BOXES (PB).

C. AN ACCESSIBLE PULL BOX MUST BE ADDED TO A CONDUIT RUN IT CONTAINS MORE THAN THE EQUIVALENT OF TWO 90 DEGREE TURNS IN ANY DIMENSIONAL PLANE.

D. THERE SHALL BE NO CONTINUOUS CONDUIT SECTIONS LONGER THAN 100 FT. FOR RUNS THAT TOTAL MORE THAN 100 FT IN LENGTH, INSERT PULL POINTS OR PULL BOXES SO THAT NO SEGMENT BETWEEN POINTS/ BOXES EXCEEDS THE 100 FT LIMIT. IT IS RECOMMENDED THAT TOTAL CONDUIT RUNS BE KEPT TO 150 FT OR LESS (INCLUDING THE SECTIONS THROUGH PULL BOXES).

E. ALL CONDUITS OR CONDUITS STUB-UPS SHALL HAVE A MINIMUM BEND RADIUS 6 TIMES THE DIAMETER OF THE CONDUIT. IF FIBER OPTIC CABLE IS RUN IN THE CONDUIT OR STUB-UP THE BEND RADIUS SHALL BE INCREASED TO 10 TIMES THE DIAMETER OF THE CONDUIT.

F. ALL CONDUITS THAT ARE 2"OR LESS IN DIAMETER SHOULD HAVE BEND RADIUS OF 6 TIMES INTERNAL DIAMETER OF THE CONDUIT. IF THE CONDUIT IS LARGER THAN 2"SHOULD HAVE BEND RADIUS OF 10 TIMES INTERNAL DIAMETER OF THE CONDUIT.

G. EQUIP ALL CONDUITS WITH A PLASTIC OR NYLON LINE (ALSO CALLED A FISH TAPE OR PULL CORD) WITH A MINIMUM TEST RATING OF 200 LB.

H. PULL AND JUNCTION BOXES SHALL BE PROVIDED ACCORDINGLY NEC, ARTICLE 314.

I. EMT CONDUIT SHALL BE INSTALLED AS COMPLETE SYSTEM IN ACCORDANCE WITH ARTICLE 300.18 AND SHALL BE SECURELY FASTENED IN PLACE AND SUPPORTED IN ACCORDANCE NEC ARTICLE 358.30(A AND B)

SHEET NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 4" CONDUIT SLEEVES TO CORRIDOR FOR CABLE CONVEYANCE.
2. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL 18" X 4" BASKET TRAY.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) 2" CONDUIT SLEEVES WITH WEATHERHEAD.

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Drawing Title
TECHNOLOGY RISER DIAGRAM

Drawing No.
T5.1

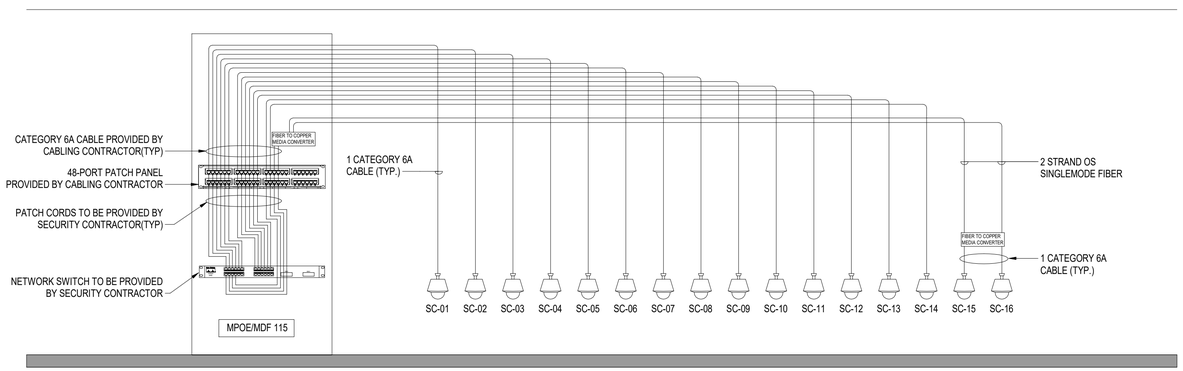
Sheet No.

LMSA PROJECT NUMBER: 1902

PLOT DATE: 7/15/2022 4:51:18 PM

CAMERA SCHEDULE							
CAMERA ID	**SHEET#**	**FLOOR**	**CAMERA MODEL #**	**MOUNT**	**CABLE TYPE**	**TELECOM ROOM...**	**NOTES**
SC-01	T1.1 AND T2.1	1ST FLOOR	AXIS P3807-PVE	PARAPET MOUNT	1 CATEGORY 6A	MPOE/MDF 115	
SC-02	T1.1 AND T2.1	1ST FLOOR	AXIS P3807-PVE	PARAPET MOUNT	1 CATEGORY 6A	MPOE/MDF 115	
SC-03	T1.1 AND T2.1	1ST FLOOR	AXIS P3807-PVE	PARAPET MOUNT	1 CATEGORY 6A	MPOE/MDF 115	
SC-04	T1.1 AND T2.1	1ST FLOOR	AXIS P3807-PVE	PARAPET MOUNT	1 CATEGORY 6A	MPOE/MDF 115	
SC-05	T2.1	1ST FLOOR	AXIS M3068-P	CEILING SURFACE MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-06	T2.1	1ST FLOOR	AXIS M3068-P	CEILING SURFACE MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-07	T2.1	1ST FLOOR	AXIS M3068-P	CEILING SURFACE MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-08	T2.1	1ST FLOOR	AXIS P3245-LV	CEILING FLUSH MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-09	T2.1	1ST FLOOR	AXIS P3807-PVE	CEILING SURFACE MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-10	T1.1 AND T2.1	1ST FLOOR	AXIS P3717-PLE	PARAPET MOUNT	1 CATEGORY 6A	MPOE/MDF 115	
SC-11	T.2.1	1ST FLOOR	AXIS P3807-PVE	CEILING SURFACE MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-12	T.2.1	1ST FLOOR	AXIS P3245-LV	SURFACE WALL MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-13	T1.1	SITE	AXIS P3717-PLE	POLE MOUNT	2 STRANDS OF MULTI-MODE FIBER	MPOE/MDF 115	1. CONTRACTOR SHALL PROVIDE AND INSTAL MEDIA CONVERTER AT THE CAMERA TO COVERT FIBER TO COPPER . 2. CONTRACTOR SHALL COORDINATE MOUNTING WITH POLE VENDOR ON FIELD.
SC-14	T1.1	SITE	AXIS P3717-PLE	POLE MOUNT	2 STRANDS OF MULTI-MODE FIBER	MPOE/MDF 115	1. CONTRACTOR SHALL PROVIDE AND INSTAL MEDIA CONVERTER AT THE CAMERA TO COVERT FIBER TO COPPER . 2. CONTRACTOR SHALL COORDINATE MOUNTING WITH POLE VENDOR ON FIELD.
SC-15	T2.2	2ND FLOOR	AXIS P3807-PVE	CEILING SURFACE MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	
SC-16	T2.2	2ND FLOOR	AXIS M3068-P	SURFACE WALL MOUNTED	1 CATEGORY 6A	MPOE/MDF 115	

2 CAMERA SCHEDULE
N.T.S



1 TECHNOLOGY CAMERA RISER DIAGRAM
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Designed by: Designer
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No.	DATE	ISSUE DESCRIPTION
	08/20/2021	95% CD / BUILDING PERMIT
P1	03/17/2022	PERMIT REVISIONS
	07/15/2022	100%CD / BID SET

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

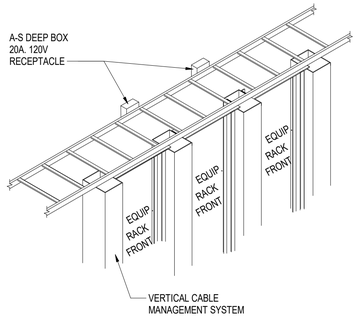
Drawing Title
CAMERA RISER DIAGRAM AND SCHEDULE

Drawing No.
T5.2

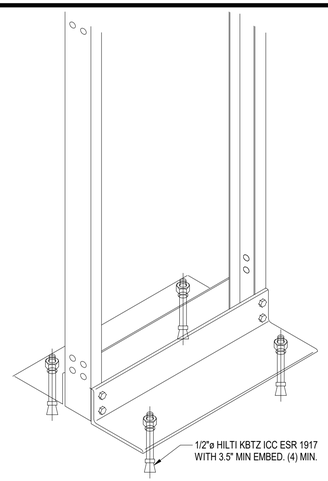
Sheet No.

LMSA PROJECT NUMBER: 1902

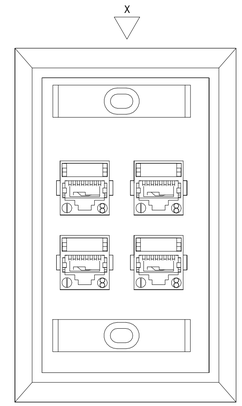
PLOT DATE: 7/15/2022 4:51:23 PM



9 POWER OUTLET MOUNTING ON SIDE OF RUNWAY
N.T.S.

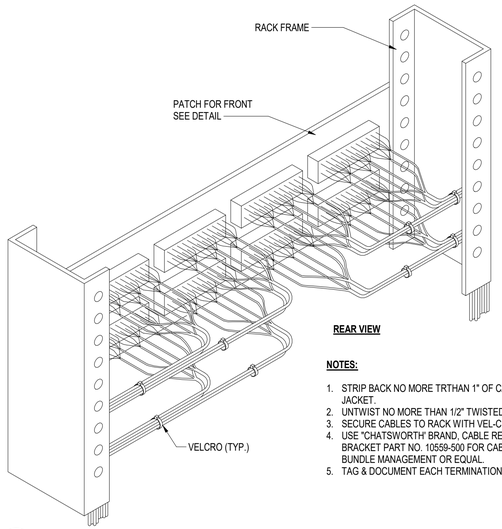


6 RACK FLOOR INSTALLATION
N.T.S.



(X) CATEGORY 6A CABLES, (X) CATEGORY 6A JACKS AND (1) 4-PORT FACEPLATE.
"X" DENOTES THE NUMBER OF CABLES AND JACKS.

3 COMMUNICATIONS OUTLET
N.T.S.

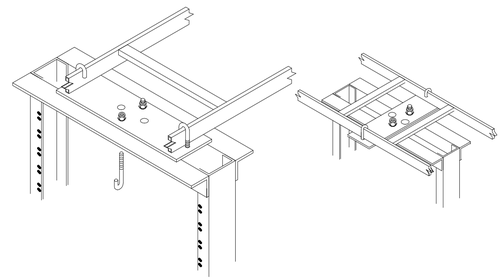


REAR VIEW

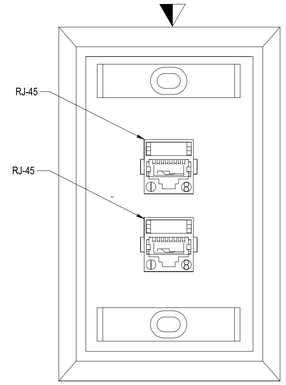
NOTES:

1. STRIP BACK NO MORE TRTHAN 1" OF CABLE JACKET.
2. UNTWIST NO MORE THAN 1/2" TWISTED PAIR.
3. SECURE CABLES TO RACK WITH VEL-CRO.
4. USE "CHATSWORTH' BRAND, CABLE RETAINING BRACKET PART NO. 10559-500 FOR CABLE BUNDLE MANAGEMENT OR EQUAL.
5. TAG & DOCUMENT EACH TERMINATION.

8 DATA PATCH PANEL
N.T.S.

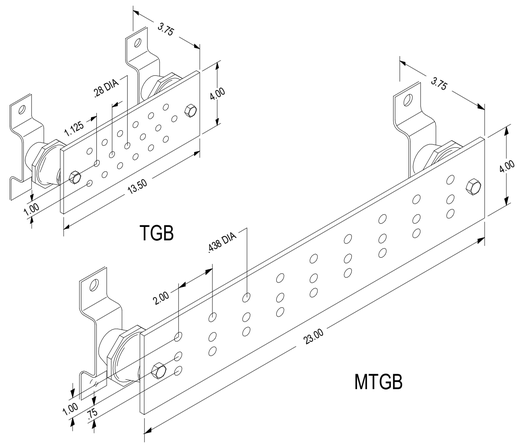


5 RACK TO RUNWAY INSTALLATION KIT
N.T.S.

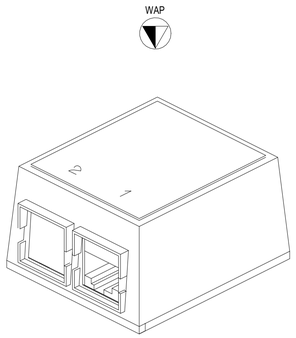


(2) CATEGORY 6A, 4-PAIR CABLES AND (2) CATEGORY 6A
RJ45 JACKS AND (1) 2-PORT FACEPLATE

1 STANDARD WALL OUTLET
N.T.S.

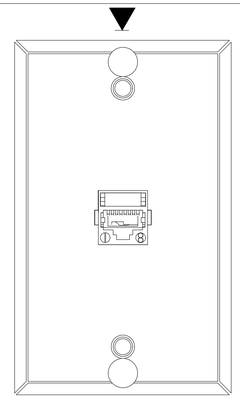


7 TELECOM AND MAIN GROUND BUS BAR
N.T.S.



(2) CATEGORY 6A CABLES, (2) CATEGORY 6A
RJ45 JACKS, AND (1) 2-PORT SURFACE MOUNT BOX

4 WIRELESS ACCESS POINT OUTLET
N.T.S.



(1) CATEGORY 6A CABLE, (1) CATEGORY 6A RJ45 CONNECTOR
(1) 1-PORT WALL PHONE FACEPLATE

2 TELEPHONE OUTLET, FLUSH IN WALL
N.T.S.

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Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
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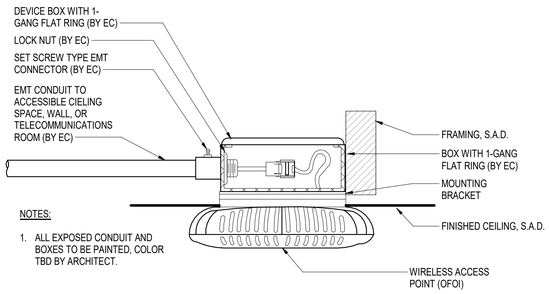
Drawing Title
TECHNOLOGY DETAILS

Drawing No.
T6.1

Sheet No.

LMSa PROJECT NUMBER: 1902

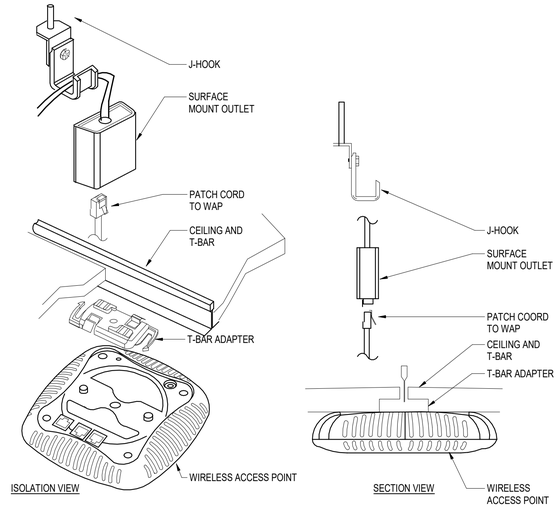
PLOT DATE: 7/15/2022 4:51:27 PM



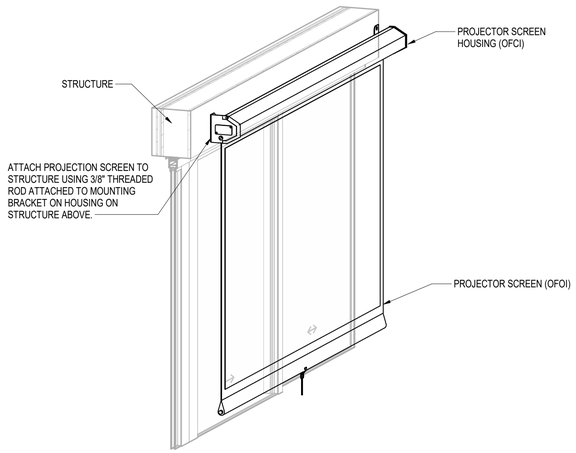
NOTES:

1. ALL EXPOSED CONDUIT AND BOXES TO BE PAINTED, COLOR TBD BY ARCHITECT.

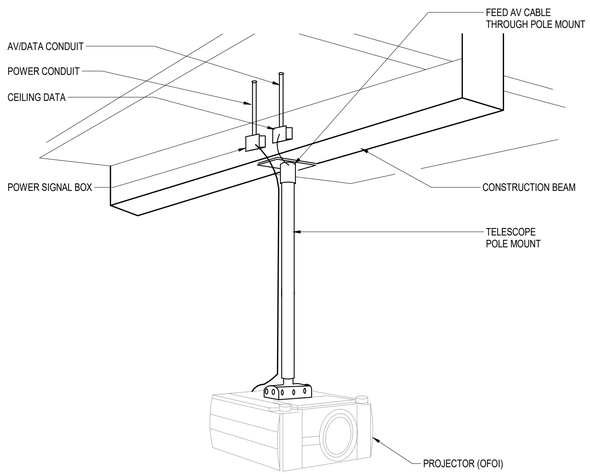
4 WAP MOUNTING DETAIL
N.T.S.



2 WAP - ACCESSIBLE CEILING MOUNTED
N.T.S.



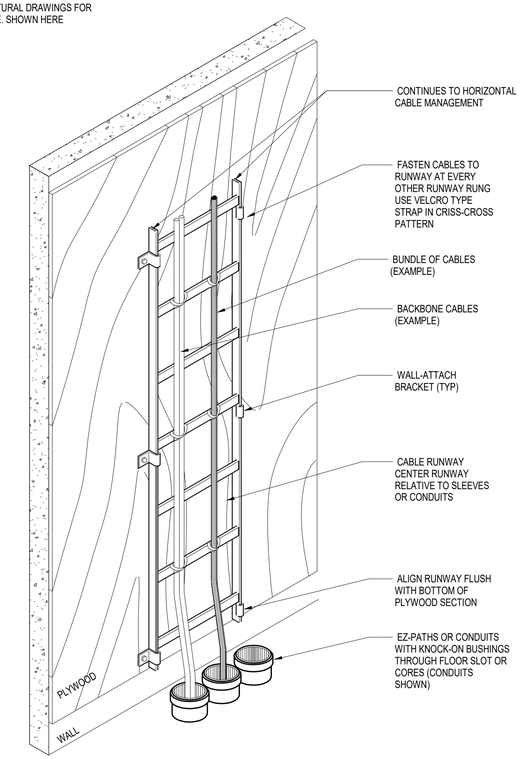
6 PULL DOWN PROJECTOR SCREEN DETAIL
N.T.S.



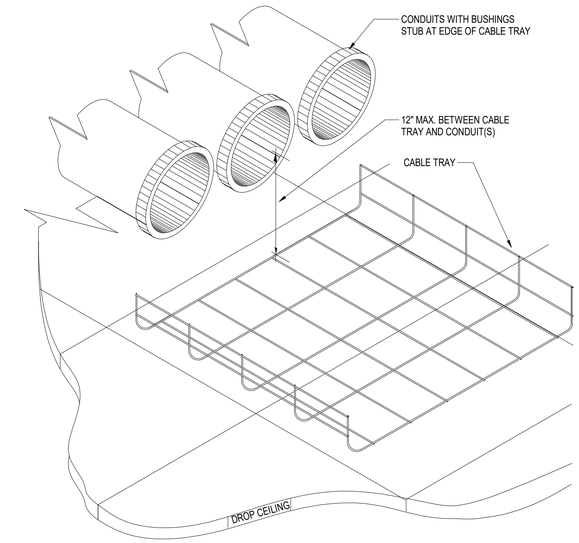
5 PROJECTOR MOUNTING DETAIL
N.T.S.

NOTES:

1. PROVIDE FIRESTOPPING TO MATCH FLOOR/DECK RATING.
2. REFER TO ROOM PLANS AND DETAILS FOR CABLE RUNWAY SIZE AND LOCATION.
3. REFER TO ROOM PLANS AND DETAILS FOR DEVICE SIZES AND QUANTITIES.
4. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND DECK TYPE. SHOWN HERE FOR CLARITY ONLY.



3 VERTICAL CABLE ROUTING THROUGH FLOOR
N.T.S.



NOTES:

1. ALIGN SLEEVES/CONDUITS WITH HORIZONTAL SECTION OF CABLE TRAY.
2. REFER TO REFLECTED CEILING PLANS FOR CABLE TRAY SIZE AND ROUTE(S).
3. REFER TO REFLECTED CEILING PLANS FOR CONDUITS SIZE, QUANTITY, AND ROUTE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE AND CEILING TYPE. SHOWN HERE FOR CLARITY ONLY.

1 CONDUIT TO CABLE TRAY TRANSITION
N.T.S.

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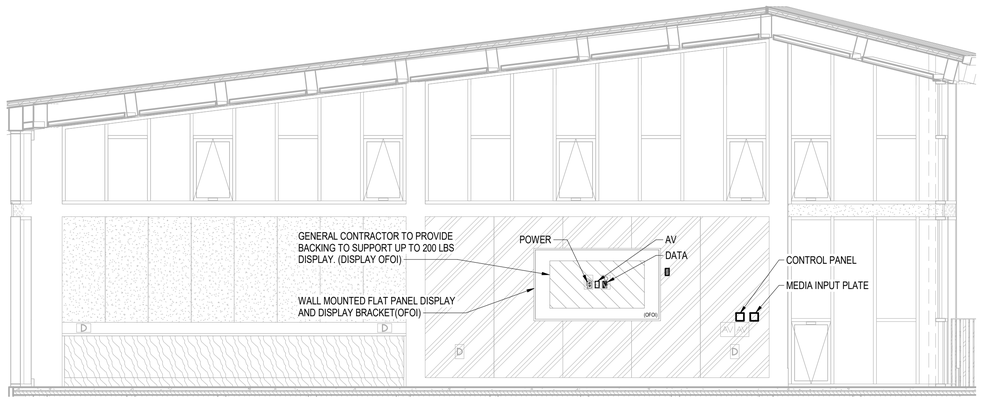
Drawing Title
TECHNOLOGY DETAILS

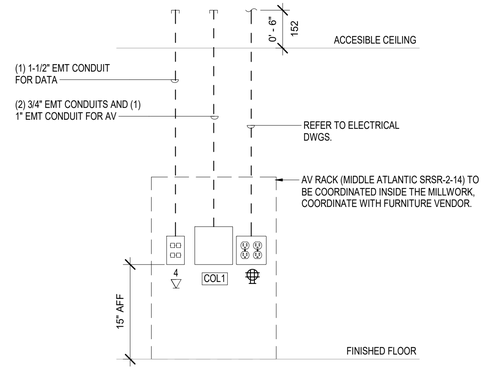
Drawing No.
T6.2

Sheet No.

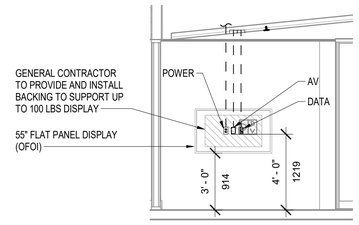
PLOT DATE: 7/15/2022 4:51:31 PM
LMSa PROJECT NUMBER: 1902



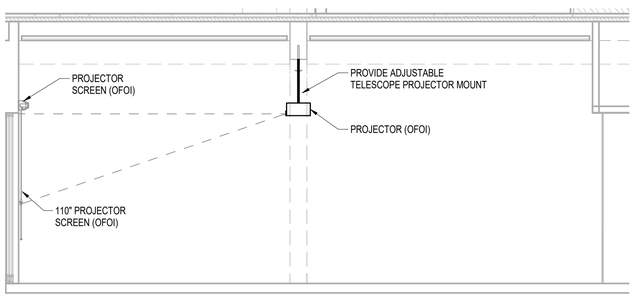
3 MAKER'S SPACE ELEVATION - 90" DISPLAY
N.T.S.



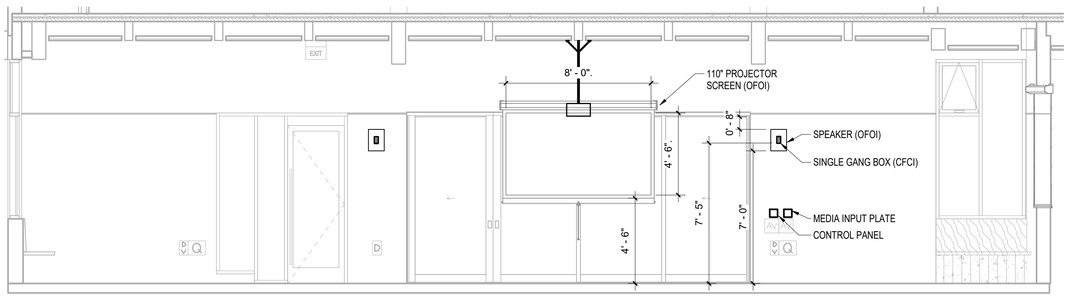
5 AV RACK AT SOCIAL HALL
N.T.S.



4 LOBBY DISPLAY
N.T.S.



2 SOCIAL HALL ELEVATION - PROJECTOR
N.T.S.



1 SOCIAL HALL ELEVATION - PROJECTOR SCREEN
N.T.S.

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Project Information
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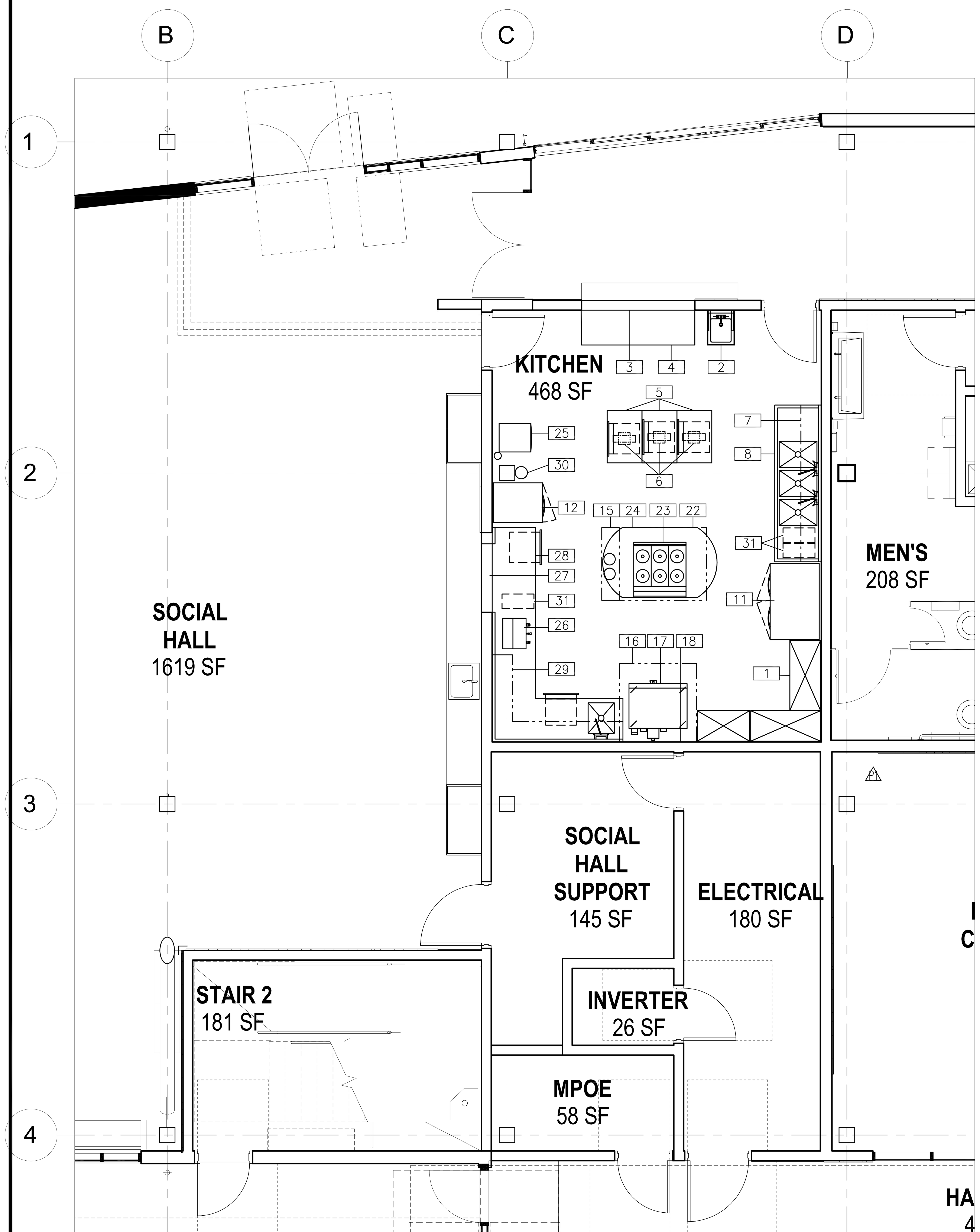
Drawing Title
ROOM ELEVATION DETAILS

Drawing No.
T7.1
Sheet No.

LMSa PROJECT NUMBER: 1902
PLOT DATE: 7/15/2022 4:51:38 PM



FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	4	MOBILE SECURE SHELVING	METRO	SEC33EK3	
2	1	ADA HAND SINK W/SOAP & TOWEL	EAGLE GROUP	HSAP-14-ADA-FW	
3	1	ROLL UP SERVICE WINDOW	SPECIFIED BY ARCHITECT	NOT IN FSEC CONTRACT	NIC
4	1	SERVING COUNTER	CUSTOM FABRICATED	SEE ELEVATIONS/DETAILS	
5	3	MOBILE WORK TABLES	EAGLE GROUP	T2436SEM / 500772 / E17 / CA4-SB	
6	3	OVERHEAD ELECTRICAL CORD REEL	HUBBELL	HBLC40123TT	
7	1	WALL SHELF W/ UTENSIL RACK	ADVANCE TABCO	DT-6R-108	
8	1	POT SINK	CUSTOM FABRICATED	SEE ELEVATIONS/DETAILS	
9		NOT USED			
10		NOT USED			
11	1	4 HALF DR REACH IN REFRIG	TRUE	STM2R-4HS-HC	
12	1	2-HALF DR REACH IN FREEZER	TRUE	STM1F-2HS-HC	
13		NOT USED			
14		NOT USED			
15	1	FIRE SUPPRESSION SYSTEM	STREIVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
16	1	EXHAUST HOOD (TYPE-I)	STREIVOR AIR SYSTEMS	WCBD 49 54 24	
17	1	2-DECK CONVECTION OVEN	IMPERIAL	ICVE-2	
18	1	STAINLESS STEEL WALL FLASHING	CUSTOM FABRICATED	SEE ELEVATION DETAILS	
19		NOT USED			
20		NOT USED			
21		NOT USED			
22	1	EXHAUST HOOD (TYPE-I)	STREIVOR AIR SYSTEMS	ICBD 60 63 24	
23	1	ELECTRIC RANGE/OVEN	IMPERIAL	IHR-6-E	
24	1	WORK COUNTER	CUSTOM FABRICATED	SEE ELEVATIONS/DETAILS	
25	1	ICE MACHINE	MANITOWOC	UDE0080A	
26	1	COFFEE BREWER	FETCO	CBS-52H-15	
27	1	ROLL UP SERVICE WINDOW	SPECIFIED BY ARCHITECT	NOT IN FSEC CONTRACT	NIC
28	1	SERVING COUNTER WITH SINK	CUSTOM FABRICATED	SEE ELEVATIONS/DETAILS	
29	1	WALL CABINET	CUSTOM FABRICATED	SEE ELEVATION DETAILS	
30	1	TYPE K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
31	1	TRASH CONTAINER	PROVIDED BY OWNER	NOT IN FSEC CONTRACT	NIC
32		NOT USED			
33		NOT USED			
34		NOT USED			
35		NOT USED			

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
U/C	UNDER COUNTER
S&T	SOAP AND TOWEL
NIC	NOT IN CONTRACT

SCHEDULE / DRAWING NOTES:

NOTES:

HEALTH DEPARTMENT REQUIREMENTS:

A. ALL EQUIPMENT, MANUFACTURED OR CUSTOM FABRICATED, TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

C. ALL EXPOSED PLUMBING AND GAS LINES MUST BE MOUNTED OR ENCLOSED SO AS TO FACILITATE CLEANING. AN EFFORT SHOULD BE MADE TO ENCLOSE ALL PLUMBING LINES WITHIN WALLS UNLESS OTHERWISE APPROVED.

D. ALL EQUIPMENT WHICH GENERATES CONDENSATE AND LIQUID WASTES FROM STEAM TABLES, ICE MACHINES AND BINS, UTENSIL WASH SINKS, FOOD PREPARATION SINKS, DISPLAY CASES, ETC. SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO FLOOR SINK OR OTHER APPROVED INDIRECT WASTE RECEPTOR. FLOOR DRAINS ARE NOT TO BE USED IN LIEU OF FLOOR SINKS. ALL WASTE LINES MUST BE HARD PIPED FROM POINT OF CONNECTIONS.

E. ALL FLOOR SINKS SHALL BE AT LEAST HALF EXPOSED OR OTHERWISE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. FLOOR SINK SHOULD NOT POSE A TRIPPING HAZARD (MOUNT ALL FLOOR SINKS FLUSH WITH FLOOR)

F. ALL EXPOSED ELECTRICAL LINES SHALL BE ENCLOSED WITHIN SMOOTH, RIGID CONDUIT AND BE MOUNTED OR ENCLOSED SO AS TO FACILITATE CLEANING. FLEX CONDUIT IS ONLY PERMITTED IF ENCLOSED WITHIN WALLS.

G. SUFFICIENT NATURAL OR ARTIFICIAL LIGHTING REQUIRED: FIFTY (50) FOOT-CANDLES IN FOOD PREPARATION, UTENSIL WASH AREA, BARS, STORAGE AREAS AND RESTROOMS.

H. SHATTER PROOF SHIELDS ON LIGHTS REQUIRED ABOVE FOOD PREPARATION, OPEN FOOD STORAGE, UTENSIL-CLEANING AREAS AND HOODS.

I. AN APPROVED FLOORING MATERIAL. FOUR INCH (MINIMUM) HIGH CONTINUOUSLY COVED BASE. (3/8" MIN. COVE AT WALL/FLOOR/EQUIPMENT JUNCTURE).

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Drawn by:
Designed by:
Checked by:

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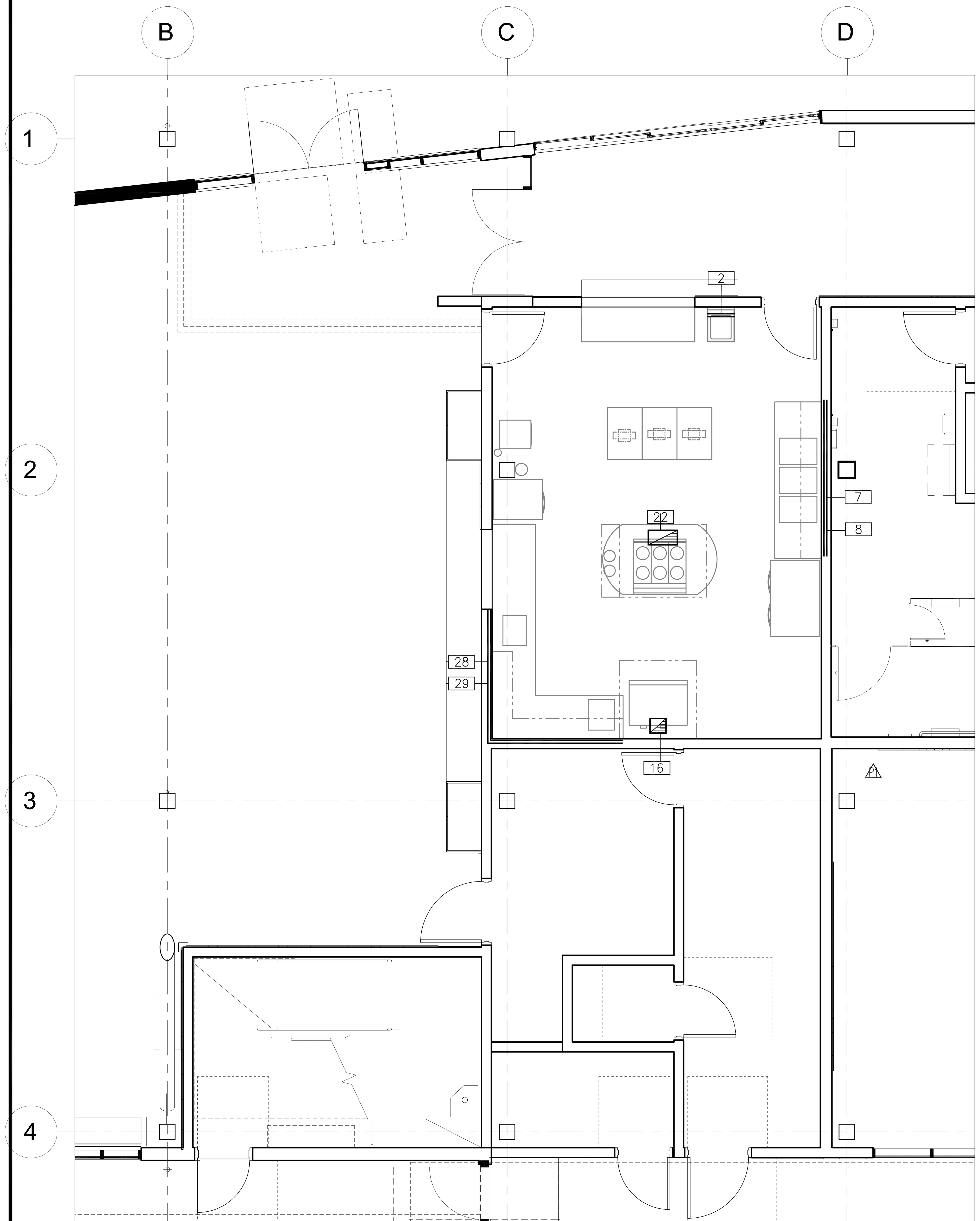
Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
FOODSERVICE KITCHEN EQUIPMENT PLAN

Drawing No.
FS.1
Sheet No.

DRAWING NAME:



FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

VENTILATION / BUILDING CONDITIONS / AIR													
ITEM	QTY	DESCRIPTION	VENTILATION EXHAUST			VENTILATION SUPPLY			WALL BACKING		COMPRESSED AIR		
			SIZE	CFM	WGSP	SIZE	CFM	WGSP	HT	OC	SUP	CFM	HT
1	4	MOBILE SECURE SHELVING											
2	1	ADA HAND SINK W/SOAP & TOWEL							12"	38"			
3	1	ROLL UP SERVICE WINDOW											
4	1	SERVING COUNTER											
5	3	MOBILE WORK TABLES											
6	3	OVERHEAD ELECTRICAL CORD REEL											
7	1	WALL SHELF W/ UTENSIL RACK							12"	69"			
8	1	POT SINK							6"	46"			
9		NOT USED											
10		NOT USED											
11	1	4 HALF DR REACH IN REFRIG											
12	1	2-HALF DR REACH IN FREEZER											
13		NOT USED											
14		NOT USED											
15	1	FIRE SUPPRESSION SYSTEM											
16	1	EXHAUST HOOD (TYPE-I)	8"x8"	673	.55								
17	1	2-DECK CONVECTION OVEN											
18	1	STAINLESS STEEL WALL FLASHING											
19		NOT USED											
20		NOT USED											
21		NOT USED											
22	1	EXHAUST HOOD (TYPE-I)	18"x10"	1750	.70								
23	1	ELECTRIC RANGE/OVEN											
24	1	WORK COUNTER											
25	1	ICE MACHINE											
26	1	COFFEE BREWER											
27	1	ROLL UP SERVICE WINDOW											
28	1	SERVING COUNTER WITH SINK											
29	1	WALL CABINET							30"	73"			
30	1	TYPE K FIRE EXTINGUISHER											
31	1	TRASH CONTAINER											
32		NOT USED											
33		NOT USED											
34		NOT USED											
35		NOT USED											

ABBREVIATIONS:

CFM	CUBIC FEET/MINUTE	STUB	UTILITY UP FROM FLOOR
WGSP	WATER GAUGE STATIC PRESSURE	SUP	SUPPLY
HT	HEIGHT		
OC	ON CENTER		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING

NOTES:

GENERAL CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

B. WALLS, FLOORS AND CEILINGS IN FOODSERVICE AND WASHING AREAS OR ANY OTHER LOCATION WHERE FOOD OR BEVERAGES ARE PREPARED, SHALL BE SMOOTH, EASILY CLEANABLE, NON-ABSORBENT AND DURABLE. WALLS AND CEILINGS SHALL BE "LIGHT-IN COLOR".

C. OPENINGS/ACCESS FOR ALL FOODSERVICE EQUIPMENT.

D. WALL BACKING FOR WALL MOUNTED FOODSERVICE EQUIPMENT, SEE DETAIL, THIS SHEET.

E. COVED FINISHED FLOOR MATERIALS AT ALL VERTICAL SURFACES. (3/8" MINIMUM)

F. FIRE RATED MATERIALS AND OR INSULATION AS REQUIRED FOR EXHAUST DUCTS, VENT STACKS, HEAT PRODUCING EQUIPMENT, ROOF/WALL PENETRATIONS PER LOCAL CODES.

G. SEE EQUIPMENT PLAN FOR ADDITIONAL HEALTH DEPARTMENT NOTES/REQUIREMENTS.

MECHANICAL CONTRACTOR TO PROVIDE:

H. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

I. EXHAUST SYSTEMS AND CONTROLS.

J. VFD'S AT FAN PACKAGE IF DCKV CONTROLS ARE PART OF FOODSERVICE EQUIPMENT SCOPE.

K. FINAL DUCT CONNECTIONS TO EXHAUST HOODS.

L. MAKE-UP AIR DIFFUSERS: DO NOT PLACE ANY DIFFUSERS WITHIN 10'-0" OF EXHAUST HOODS AND DO NOT HAVE ANY MAKE-UP AIR DIRECTED TOWARD EXHAUST HOODS.

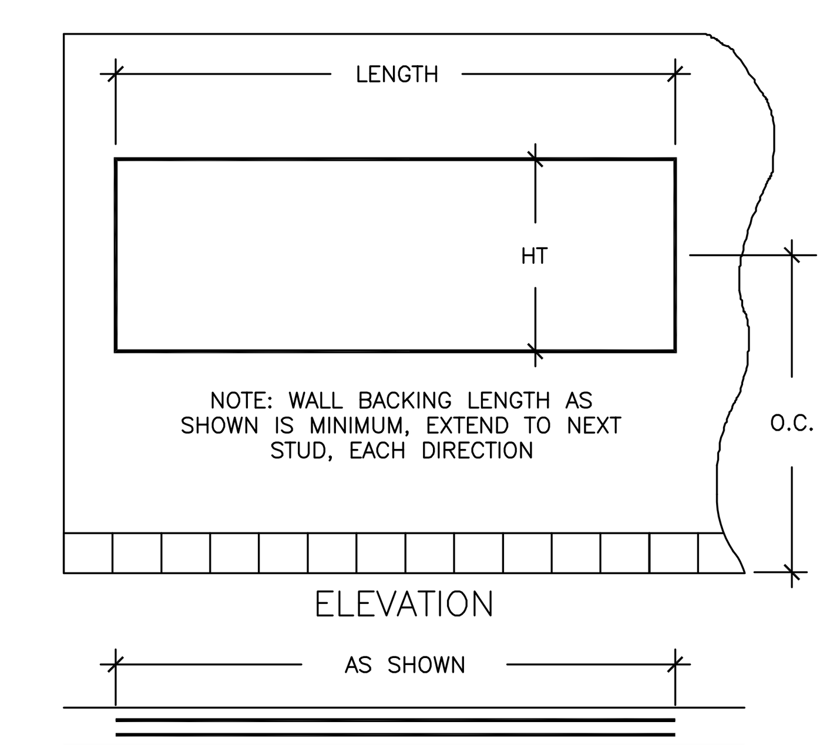
SYMBOLS:

EXHAUST DUCT CONNECTION

SUPPLY DUCT CONNECTION

16 GA WALL BACKING

WALL BACKING DETAIL



ELEVATION

PLAN VIEW

WALL BACKING PROVIDED BY GENERAL CONTRACTOR. OVERALL HEIGHT AND CENTER LINE OF BACKING AS SHOWN IN SCHEDULE.

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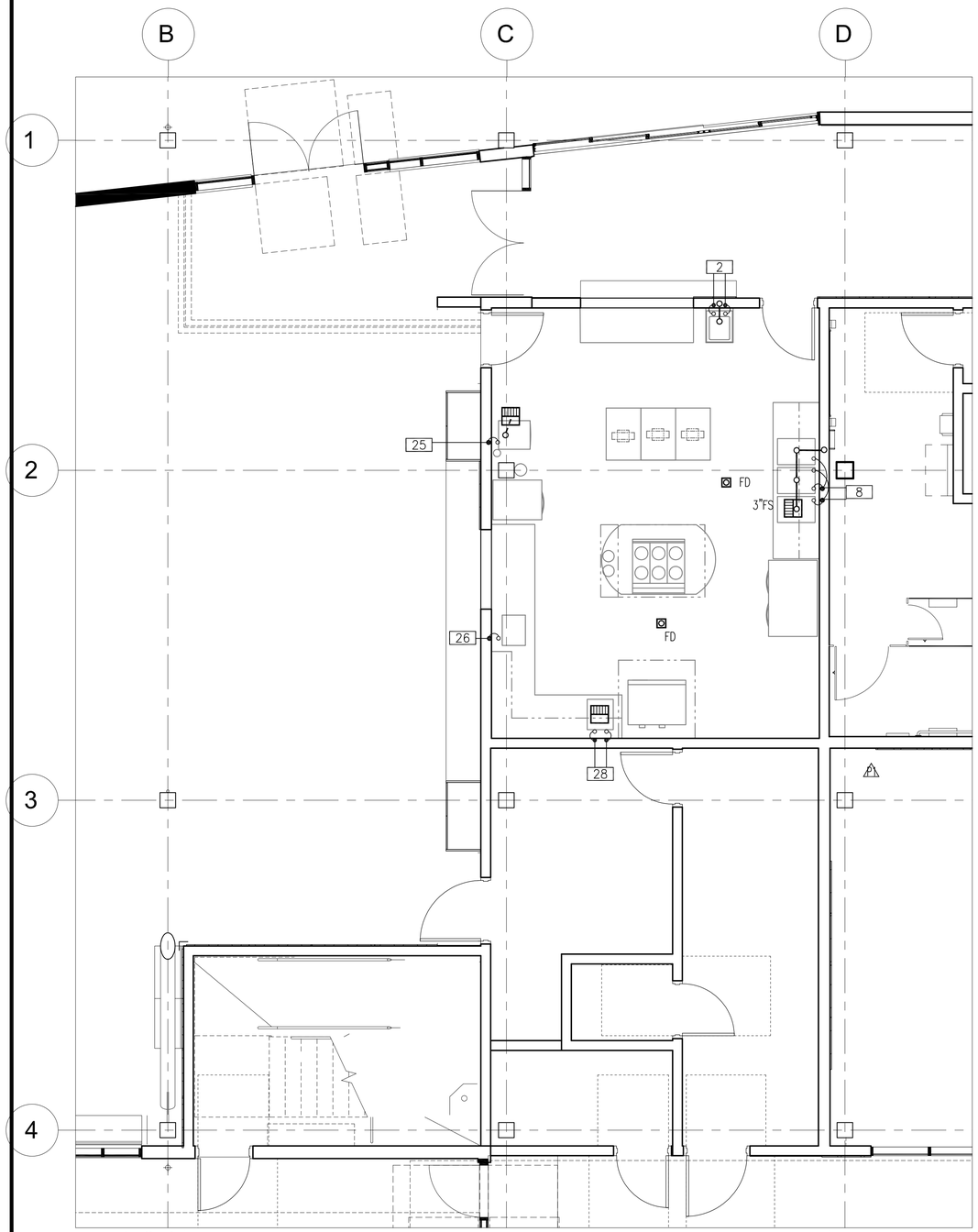
PLOT DATE:

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
FOODSERVICE BLDG CONDITIONS & VENTILATION PLAN

Drawing No.
FS.2
Sheet No.

DRAWING NAME:



FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

PLUMBING ROUGH-IN

ITEM	QTY	DESCRIPTION	WATER				WASTE			GAS			CHILLED WATER				STEAM			
			CW	HW	HT	GPH	IND	DIR	HT	SUP	MBH	HT	SUP	RET	HT	GPM	SUP	RET	HT	LB/HR
1	4	MOBILE SECURE SHELVING																		
2	1	ADA HAND SINK W/SOAP & TOWEL	1/2"	1/2"	21"	5		24"												
3	1	ROLL UP SERVICE WINDOW																		
4	1	SERVING COUNTER																		
5	3	MOBILE WORK TABLES																		
6	3	OVERHEAD ELECTRICAL CORD REEL																		
7	1	WALL SHELF W/ UTENSIL RACK																		
8	1	POT SINK	1/2"	1/2"	15"	45		2"	12"											
9		NOT USED																		
10		NOT USED																		
11	1	4 HALF DR REACH IN REFRIG																		
12	1	2-HALF DR REACH IN FREEZER																		
13		NOT USED																		
14		NOT USED																		
15	1	FIRE SUPPRESSION SYSTEM																		
16	1	EXHAUST HOOD (TYPE-I)																		
17	1	2-DECK CONVECTION OVEN																		
18	1	STAINLESS STEEL WALL FLASHING																		
19		NOT USED																		
20		NOT USED																		
21		NOT USED																		
22	1	EXHAUST HOOD (TYPE-I)																		
23	1	ELECTRIC RANGE/OVEN																		
24	1	WORK COUNTER																		
25	1	ICE MACHINE	1/2"		30"			1"												
26	1	COFFEE BREWER	1/2"		46"															
27	1	ROLL UP SERVICE WINDOW																		
28	1	SERVING COUNTER WITH SINK	1/2"	1/2"	18"	10	1"													
29	1	WALL CABINET																		
30	1	TYPE K FIRE EXTINGUISHER																		
31	1	TRASH CONTAINER																		
32		NOT USED																		
33		NOT USED																		
34		NOT USED																		
35		NOT USED																		

ABBREVIATIONS:

CW	COLD WATER	MBH	BRITISH THERMAL UNIT x 1000	HT	HEIGHT
HW	HOT WATER	SUP	SUPPLY	SD	STUB DOWN FROM UTILITY WALL
GPH	GALLONS PER HOUR (HOT WATER)	RET	RETURN	FA	FROM ABOVE
IND	INDIRECT WASTE (AIR GAP)	GPM	GALLONS PER MINUTE	STUB	UTILITY UP FROM FLOOR
DIR	DIRECT WASTE	BHP	BOILER HORSE POWER		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING	
REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN INFORMATION	

NOTES:

PLUMBING CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT AS INDICATED ON DRAWINGS AND IN PLUMBING ROUGH-IN SCHEDULE, INCLUDING ALL MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PIPING, TUBING AND SHUT OFF'S AS REQUIRED.

C. MINIMUM 120 DEGREE HOT WATER WITH THE EXCEPTION OF HAND WASH SINKS.

D. ALL WASTE LINES AS NOTED.

E. MINIMUM DIAMETER OF LINE AS INDICATED ON SCHEDULE REGARDLESS OF CONNECTION SIZE.

F. ALL DRAINS SLOPED DOWNWARD WITH ADEQUATE CLEAN-OUT PROVISIONS.

G. MAINTAIN DRAINS AS HIGH AS POSSIBLE ABOVE FLOOR.

H. ALL EXPOSED DRAIN LINES TO BE FINISHED IN STAINLESS STEEL PAINT (SEYMOUR 16-054).

I. INSULATION ON ALL HOT WATER AND CONDENSATE LINES.

J. FLOOR SINKS/FLOOR DRAINS. (SET FLUSH WITH FINISHED FLOOR).

K. ALL VENT PIPES ARE TO BE CONCEALED IN WALLS, COLUMNS OR CHASES, USE LOOP-VENTS FOR ISLAND FIXTURES.

L. INTERCONNECTION BETWEEN VENTILATOR AND ANY CONTROL PANEL THAT MAY BE PROVIDED BY MECHANICAL.

M. GREASE TRAPS/INTERCEPTORS (LOCATED OUTSIDE OF KITCHEN AREA) AS SPECIFIED UNDER PLUMBING SECTION.

N. INSTALLATION OF FIRE PROTECTION SYSTEM GAS SHUT-OFF VALVE AND Y-STRAINER, 3" MAXIMUM DIA. (PROVIDED BY HOOD MANUFACTURER/FOODSERVICE EQUIPMENT CONTRACTOR).

O. SEE EQUIPMENT PLAN FOR ADDITIONAL HEALTH DEPARTMENT NOTES/REQUIREMENTS.

SYMBOLS:

- HOT OR COLD WATER ROUGH-IN/CONNECTION
- HOT AND COLD WATER ROUGH-IN/CONNECTION
- HOT AND COLD WATER ROUGH-IN/CONNECTION WITH BRANCH CONNECTION
- GAS SUPPLY ROUGH-IN/CONNECTION
- DIRECT WASTE DRAIN ROUGH-IN/CONNECTION
- INDIRECT WASTE DRAIN TO FLOOR SINK
- FLOOR SINK WASTE CONNECTION SHOWN ON PLAN
- FLOOR DRAIN 2" WASTE WITH TRAP PRIMER

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3612 WEBSTER ST., OAKLAND, CA 94609
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Drawing Title

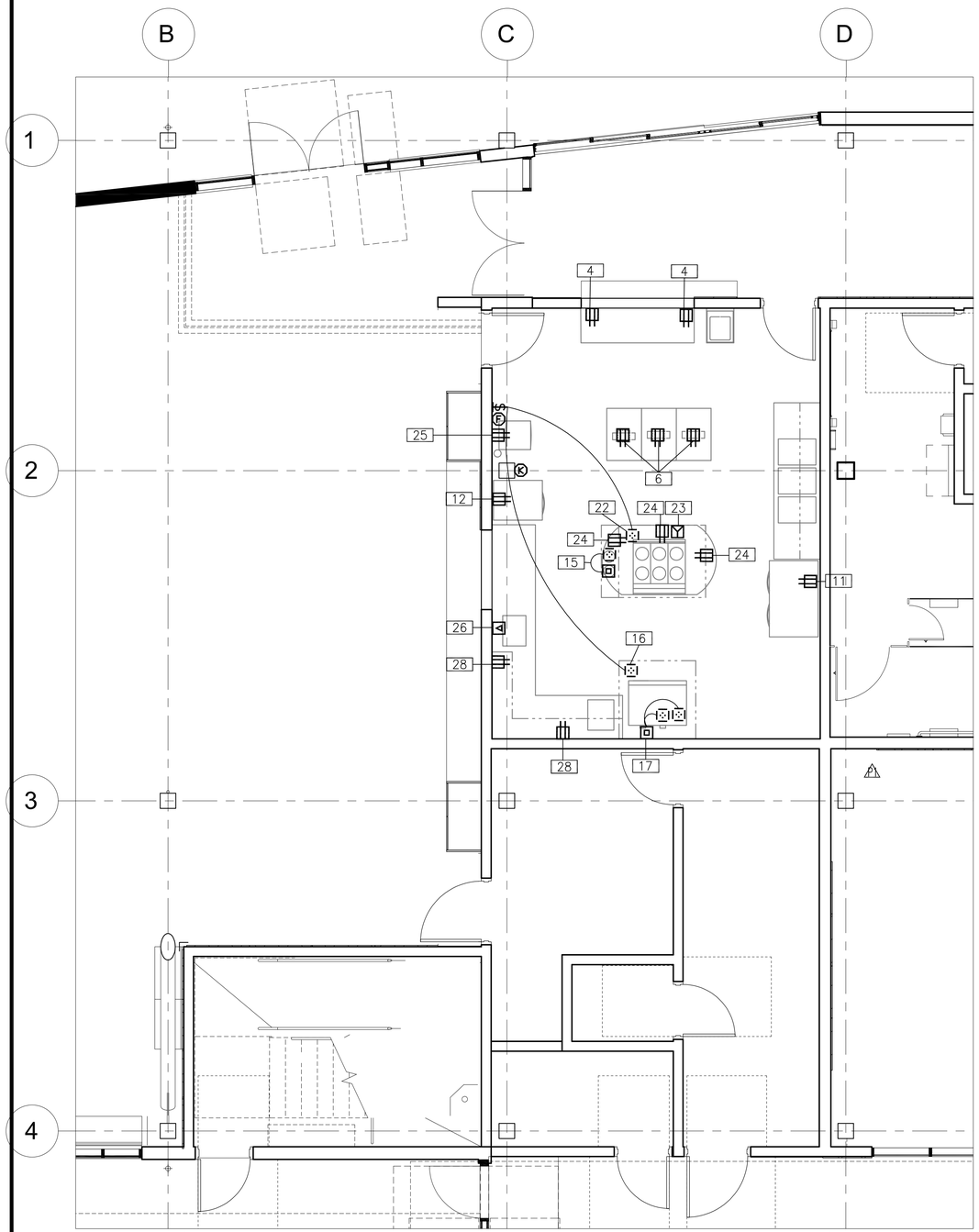
FOODSERVICE PLUMBING ROUGH IN PLAN

DRAWING NAME:

Drawing No.

FS.3

Sheet No.



FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD							CONNECTION TYPE		
			120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	C&P	RECP	HW
1	4	MOBILE SECURE SHELVING										
2	1	ADA HAND SINK W/SOAP & TOWEL										
3	1	ROLL UP SERVICE WINDOW										
4	1	SERVING COUNTER	4 AMP						STUB		*	
5	3	MOBILE WORK TABLES										
6	3	OVERHEAD ELECTRICAL CORD REEL	20A CKT						CLG		*	
7	1	WALL SHELF W/ UTENSIL RACK										
8	1	POT SINK										
9		NOT USED										
10		NOT USED										
11	1	4 HALF DR REACH IN REFRIG	5.9 AMP						88"		*	
12	1	2-HALF DR REACH IN FREEZER	7.7 AMP						88"		*	
13		NOT USED										
14		NOT USED										
15	1	FIRE SUPPRESSION SYSTEM	20A CKT									
16	1	EXHAUST HOOD (TYPE-I)	4 AMP						FA			*
17	1	2-DECK CONVECTION OVEN					62 AMP		30"/60"			*
18	1	STAINLESS STEEL WALL FLASHING										
19		NOT USED										
20		NOT USED										
21		NOT USED										
22	1	EXHAUST HOOD (TYPE-I)										
23	1	ELECTRIC RANGE/OVEN					49 AMP		24"	*	*	
24	1	WORK COUNTER	4 AMP						STUB		*	
25	1	ICE MACHINE	5.3 AMP						42"	*	*	
26	1	COFFEE BREWER		25.4 AMP					52"			*
27	1	ROLL UP SERVICE WINDOW										
28	1	SERVING COUNTER WITH SINK	4 AMP						42"		*	
29	1	WALL CABINET										
30	1	TYPE K FIRE EXTINGUISHER										
31	1	TRASH CONTAINER										
32		NOT USED										
33		NOT USED										
34		NOT USED										
35		NOT USED										

ABBREVIATIONS:

C&P	CORD AND PLUG	STUB	UTILITY UP FROM FLOOR
RECP	RECEPTACLE	DC	DROP CORD WITH RECEPTACLE
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

NOTES:

ELECTRICAL CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FOODSERVICE EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. DISH WASH AREAS TO HAVE VAPOR PROOF COMPONENTS.

E. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

F. SEE EQUIPMENT PLAN FOR ADDITIONAL HEALTH DEPARTMENT NOTES/REQUIREMENTS.

INTERCONNECTION BETWEEN:

A. FOODSERVICE EQUIPMENT WITH SWITCH ACTIVATION.

B. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS:

- JUNCTION BOX ROUGH-IN
- JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT
- DUPLEX OUTLET ROUGH-IN
- SINGLE PHASE POWER OUTLET ROUGH-IN
- THREE PHASE POWER OUTLET ROUGH-IN
- FLUSH FLOOR DUPLEX OUTLET ROUGH-IN WITH DATA CONNECTION
- CONDUIT STUB-UP ROUGH-IN
- LIGHT/POWER SWITCH ROUGH-IN
- (F) FIRE PROTECTION PULL BOX - OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING

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Project Information

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Drawing Title

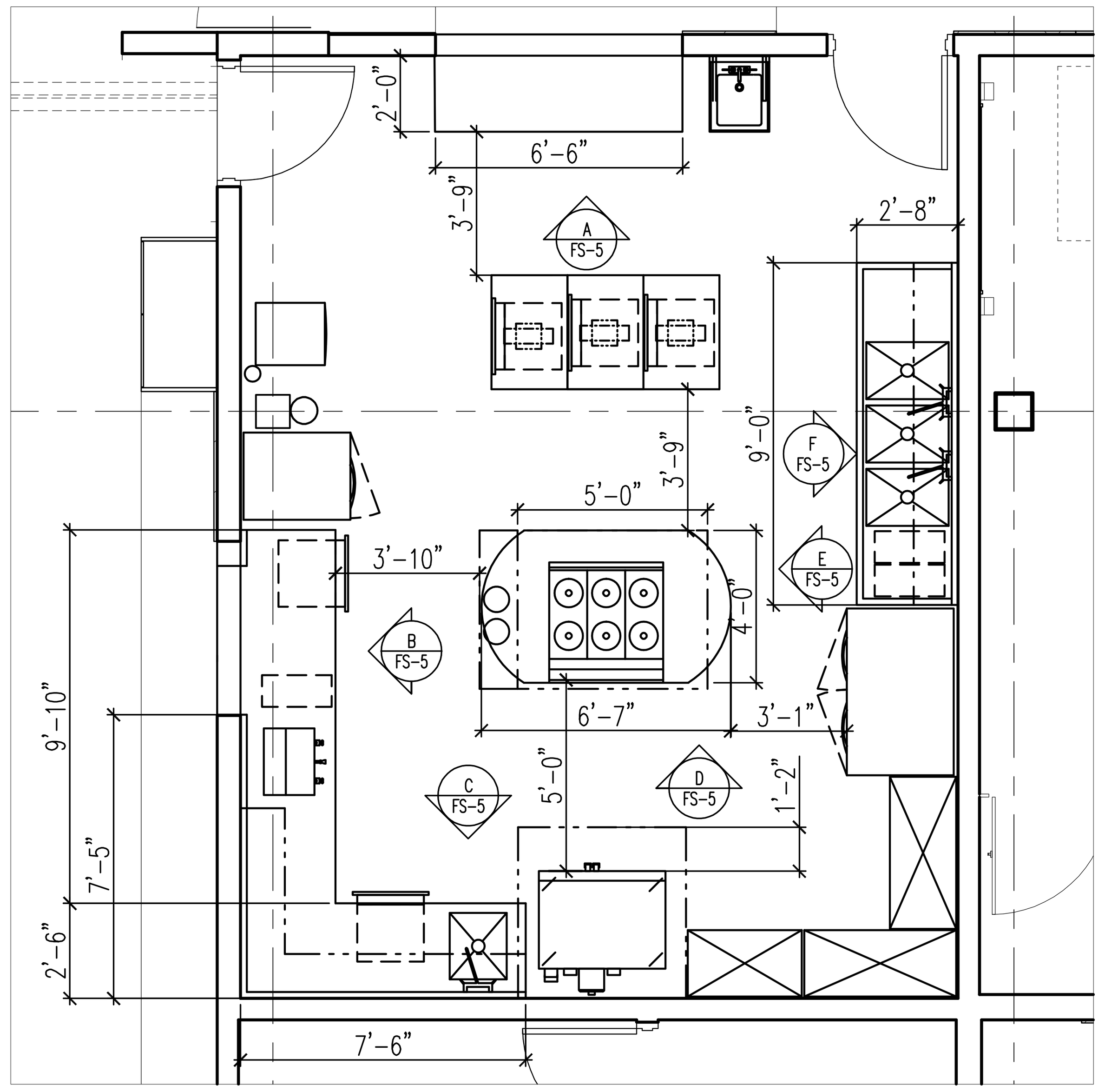
FOODSERVICE ELECTRICAL ROUGH IN PLAN

Drawing No.

FS.4

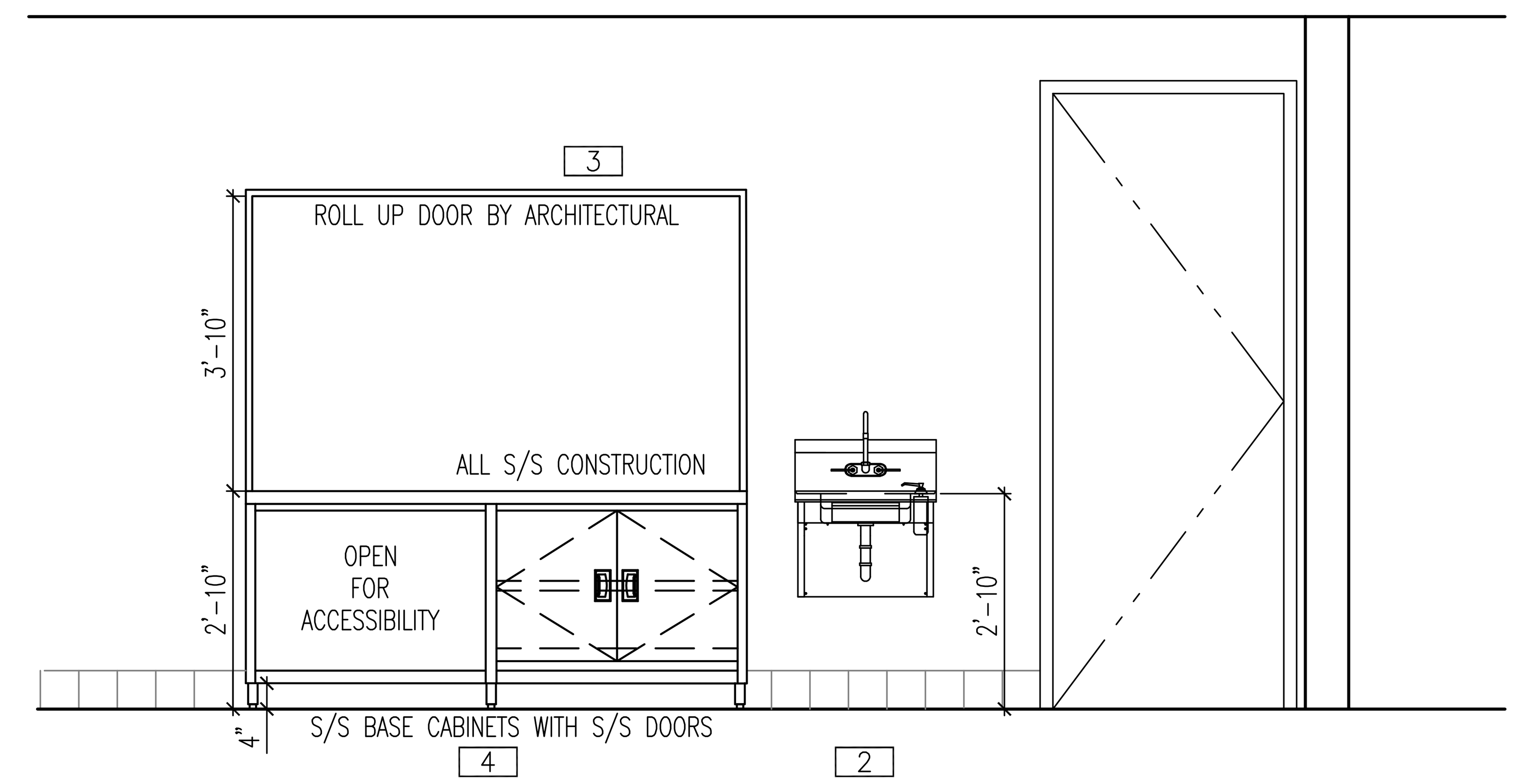
Sheet No.

DRAWING NAME:



FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"



A ELEVATION

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

NOTES:

HEALTH DEPARTMENT REQUIREMENTS:

A. ALL EQUIPMENT, MANUFACTURED OR CUSTOM FABRICATED, TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

C. ALL EXPOSED PLUMBING AND GAS LINES MUST BE MOUNTED OR ENCLOSED SO AS TO FACILITATE CLEANING. AN EFFORT SHOULD BE MADE TO ENCLOSE ALL PLUMBING LINES WITHIN WALLS UNLESS OTHERWISE APPROVED.

D. ALL EQUIPMENT WHICH GENERATES CONDENSATE AND LIQUID WASTES FROM STEAM TABLES, ICE MACHINES AND BINS, UTENSIL WASH SINKS, FOOD PREPARATION SINKS, DISPLAY CASES, ETC. SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO FLOOR SINK OR OTHER APPROVED INDIRECT WASTE RECEPTOR. FLOOR DRAINS ARE NOT TO BE USED IN LIEU OF FLOOR SINKS. ALL WASTE LINES MUST BE HARD PIPED FROM POINT OF CONNECTIONS.

E. ALL FLOOR SINKS SHALL BE AT LEAST HALF EXPOSED OR OTHERWISE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. FLOOR SINK SHOULD NOT POSE A TRIPPING HAZARD (MOUNT ALL FLOOR SINKS FLUSH WITH FLOOR)

F. ALL EXPOSED ELECTRICAL LINES SHALL BE ENCLOSED WITHIN SMOOTH, RIGID CONDUIT AND BE MOUNTED OR ENCLOSED SO AS TO FACILITATE CLEANING. FLEX CONDUIT IS ONLY PERMITTED IF ENCLOSED WITHIN WALLS.

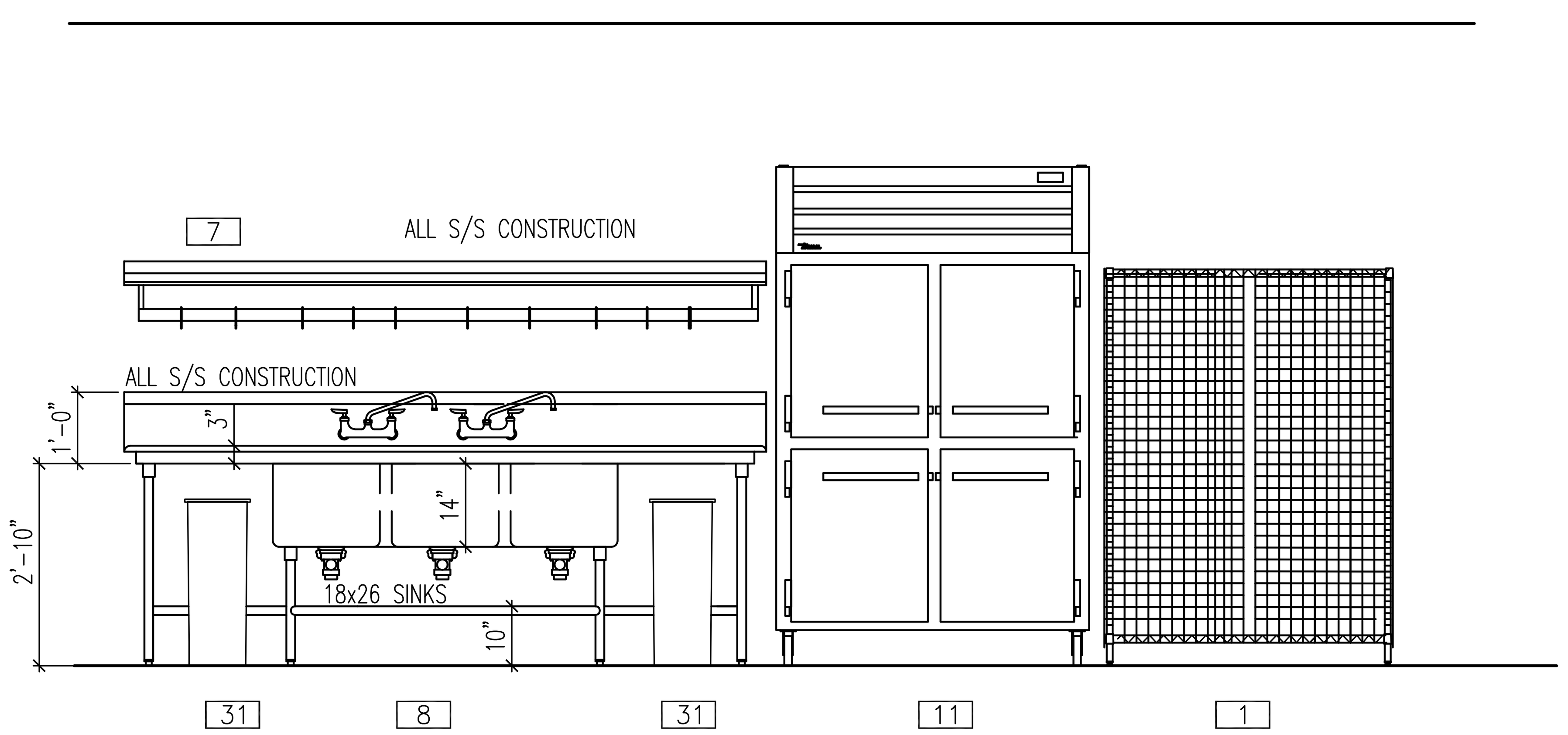
G. SUFFICIENT NATURAL OR ARTIFICIAL LIGHTING REQUIRED: FIFTY (50) FOOT-CANDLES IN FOOD PREPARATION, UTENSIL WASH AREA, BARS, STORAGE AREAS AND RESTROOMS.

H. SHATTER PROOF SHIELDS ON LIGHTS REQUIRED ABOVE FOOD PREPARATION, OPEN FOOD STORAGE, UTENSIL-CLEANING AREAS AND HOODS.

I. AN APPROVED FLOORING MATERIAL. FOUR INCH (MINIMUM) HIGH CONTINUOUSLY COVED BASE. (3/8" MIN. COVE AT WALL/FLOOR/EQUIPMENT JUNCTURE).

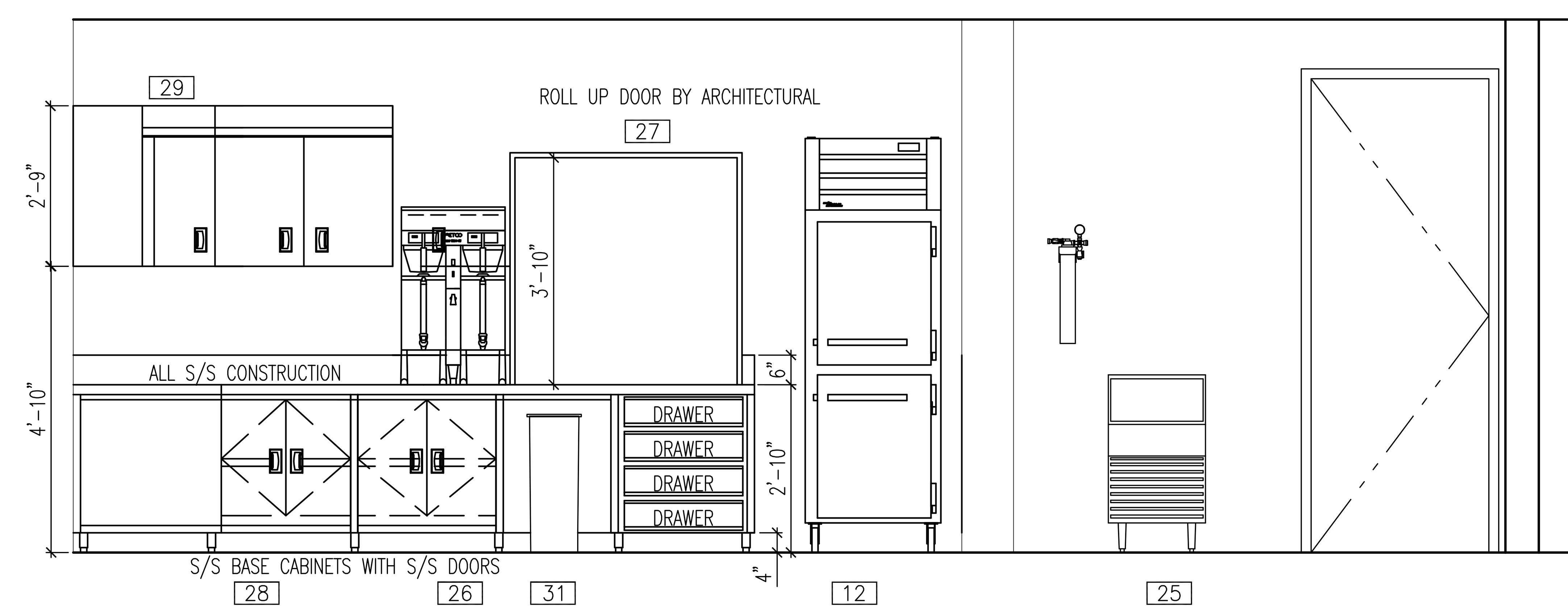
J. ALL CABINET / COUNTER DOORS AND DRAWERS TO BE PROVIDED WITH LOCKS AND TWO (2) SETS OF KEYS PER LOCK.

S/S – STAINLESS STEEL



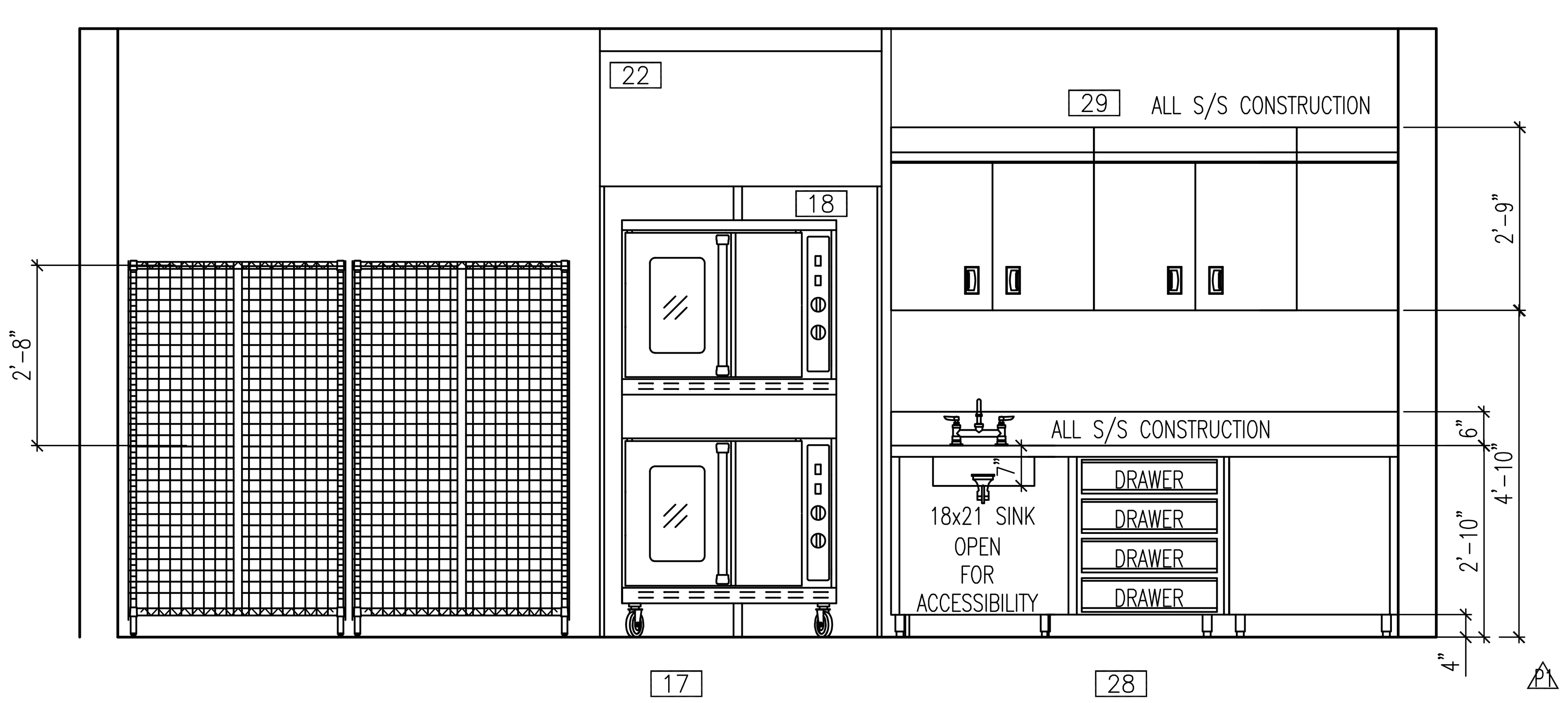
F ELEVATION

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



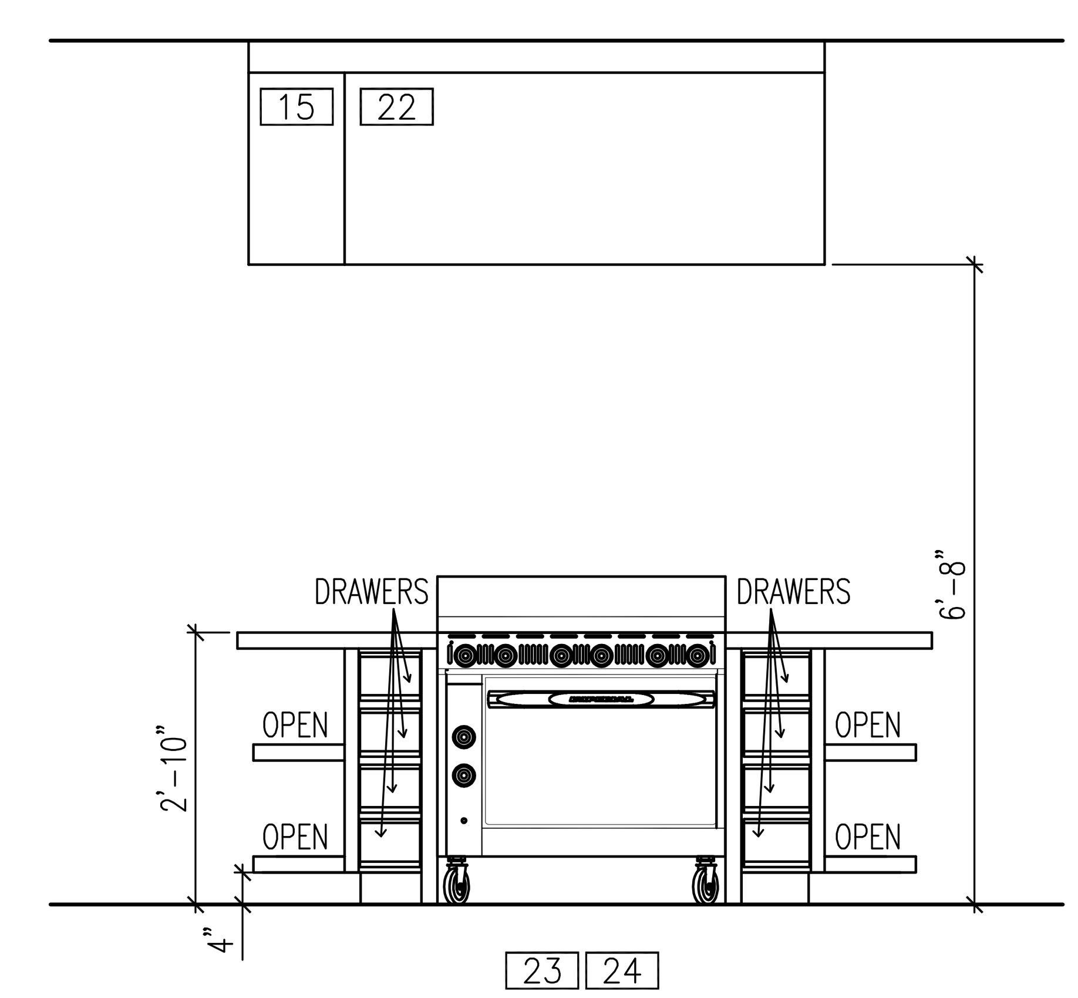
B ELEVATION

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



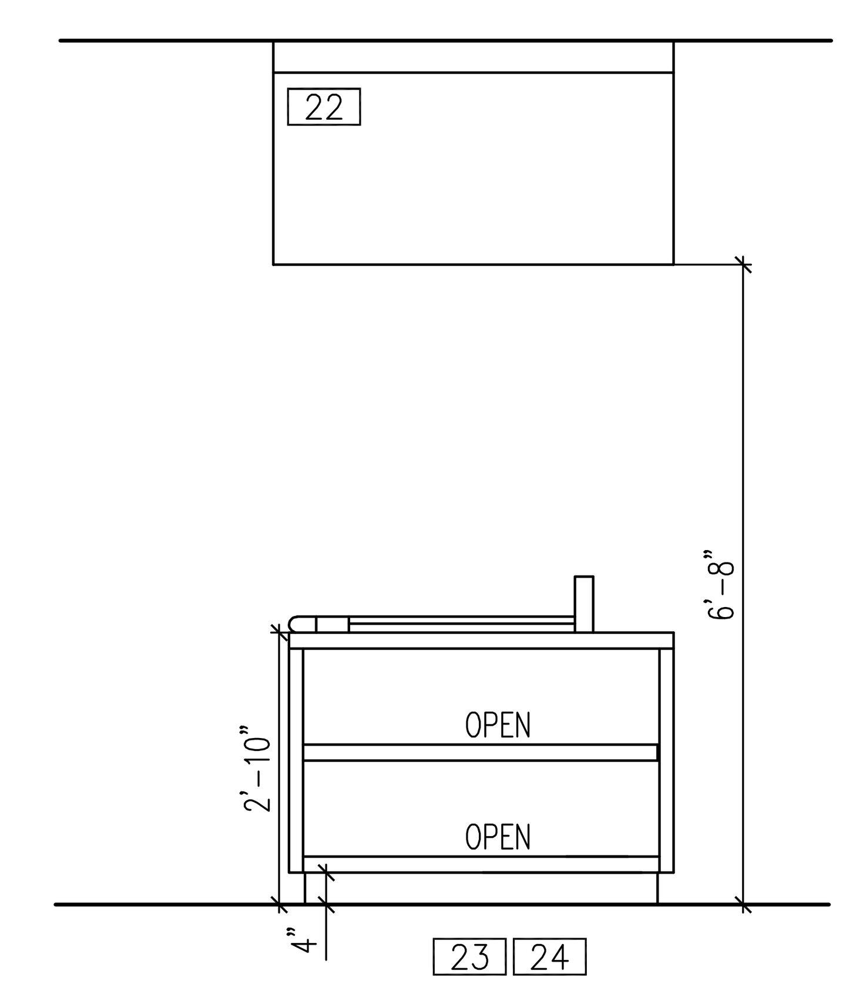
C ELEVATION

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



D ELEVATION

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



E ELEVATION

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

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Drawing Title

FOODSERVICE KITCHEN ELEVATION DETAILS

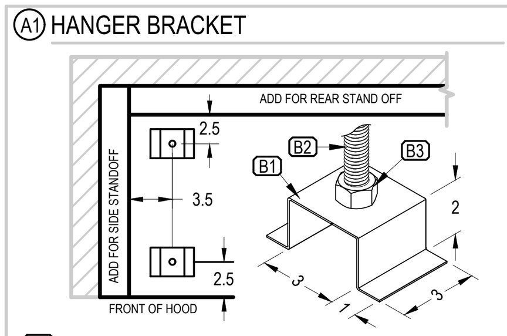
Drawing No.

FS.5

Sheet No.

DRAWING NAME:

(A1) HANGER BRACKET

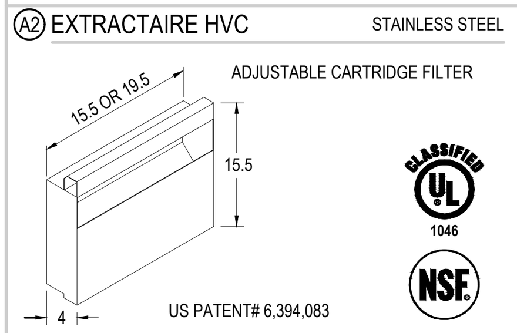


- (B1) STAINLESS STEEL HANGER BRACKET
- (B2) 3/8" THREADED ROD
- (B3) 3/8" HEAVY DUTY LOCK NUTS, (1) ABOVE (1) BELOW

(THREADED ROD & LOCK NUTS NOT PROVIDED)

(A2) EXTRACTAIRE HVC

STAINLESS STEEL

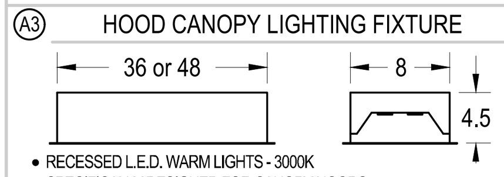


US PATENT# 6,394,083

FILTER:			#16		#22			
H x L	EFF AREA		QTY	AREA	QTY	AREA	QTY	AREA
1616	0.40	X	0	0.00	4	1.60		
1620	0.51	X	2	1.02	2	1.02		
TOTAL EFF AREA =				1.02	=	2.62	=	

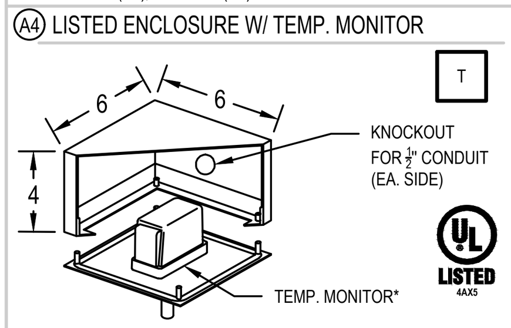
HOOD EX. CFM ÷ TOTAL EFF AREA = FPM
OPERATING RANGE OF THE FILTER (250 TO 1400 FPM)

(A3) HOOD CANOPY LIGHTING FIXTURE



- RECESSED L.E.D. WARM LIGHTS - 3000K
- SPECIFICALLY DESIGNED FOR CANOPY HOODS
- TEMPERATURE RATED TO 75°C (167°F)
- MEETS NFPA CODE 96 & NEC 410
- TOTAL LUMENS OUTPUT = 4228 (36"), 4925 (48")
- 43 WATTS (36"), 53 WATTS (48")

(A4) LISTED ENCLOSURE W/ TEMP. MONITOR

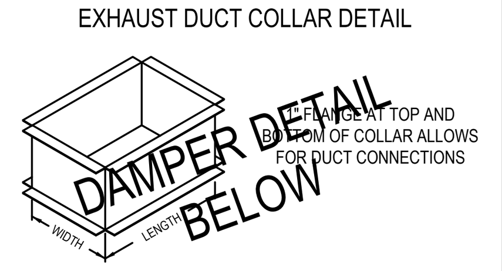


PATENT PENDING

REMOVABLE COVER ALLOWS EASY ACCESS FOR INSTALLATION, ADJUSTMENTS AND SERVICE OF MONITORING EQUIPMENT FROM UNDER THE HOOD.

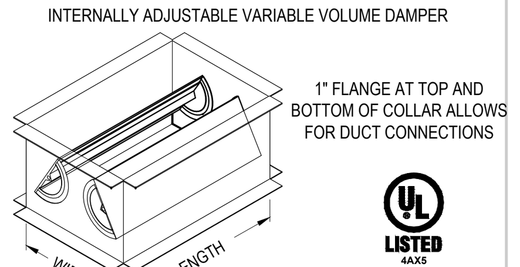
(A5) DUCT CONNECTION DETAIL

EXHAUST DUCT COLLAR DETAIL



BALANCEAIRE INCLUDED

INTERNALLY ADJUSTABLE VARIABLE VOLUME DAMPER



US PATENT# D634,419 S

THE BALANCEAIRE'S OPPOSED BLADES CAN BE ADJUSTED TO VARYING POSITIONS FROM 100% OPEN TO 95% CLOSED TO INCREASE OR DECREASE THE AMOUNT OF RESISTANCE IN THE HOODS EXHAUST COLLAR. THE EXHAUST FAN MUST BE SIZED TO ACCOUNT FOR THE BALANCEAIRE'S ADDED RESISTANCE.

EXHAUST COLLAR APPROVAL

OPTIONS

- [ ] SHIP COLLAR LOOSE (THE PURCHASER ACCEPTS THE OBLIGATION AND COST OF CUTTING/WELDING COLLAR)
- [ ] WELD COLLAR TO HOOD (DIMENSIONS REQUIRED)

DRAWING APPROVAL

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
2. THE LOCATION & TYPE OF COOKING EQUIPMENT.

APPROVED FOR FABRICATION

- [ ] APPROVED
- [ ] APPROVED AS NOTED
- [ ] REVISE & RESUBMIT

APPROVED BY DATE

NOTE TO REVIEWER:

ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

HOOD SCHEDULE

						EXHAUST			DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD. (UL1)		MINIMUM OVERHANG OPEN SIDES (UL2)	(UL3)	EQUIP. DUTY TEMPERATURE (UL4)
NO.	MODEL	L	W	H	WEIGHT	SPEC. CFM	SP	CFM/FT	MIN.	MAX.	SIDE	FRONT	MAX.
16	WCBD 495424	49	54	24	363	673	0.55	165	36	48	6	6	400
22	ICBD 606324	60	63	24	1149	1750	0.70	350	36	48	6	6	450

1. GREATER EXHAUST AND/OR LESSER SUPPLY AIR FLOW RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND SMOKE REMOVAL IN SPECIFIC INSTALLATION(S).
2. THE EXHAUST FAN MUST BE OPERATED WHENEVER THE COOKING EQUIPMENT IS TURNED ON. (NFPA SECTION 11.1.1)

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL

HOOD LEGEND

1. ALL WELDED ENCLOSURE
2. 16 GA. SIDES, REMAINDER OF HOOD TO BE NO LESS THAN 18 GA.
3. PITCHED GREASE DRIP TRAY
4. ENCLOSED METAL CONTAINER
6. ENCLOSURE PANEL: INCLUDED
7. UTILITY CABINET (REQUIRES 36" OF OPEN SPACE IN FRONT OF THE DOOR)
8. 12" HOOD OVERHANG IS RECOMMENDED FOR ALL HEAVY DUTY COOKING APPLIANCES
14. SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATION(S)

ELECTRICAL SCHEDULE

CIRCUIT	DESCRIPTION	VOLTS/PHASE	AMPS	FEED FROM
E1	LIGHTS	120/1	2	CB
E2	STM	120/1		
---	---	---	---	CB
---	---	---	---	CB

CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

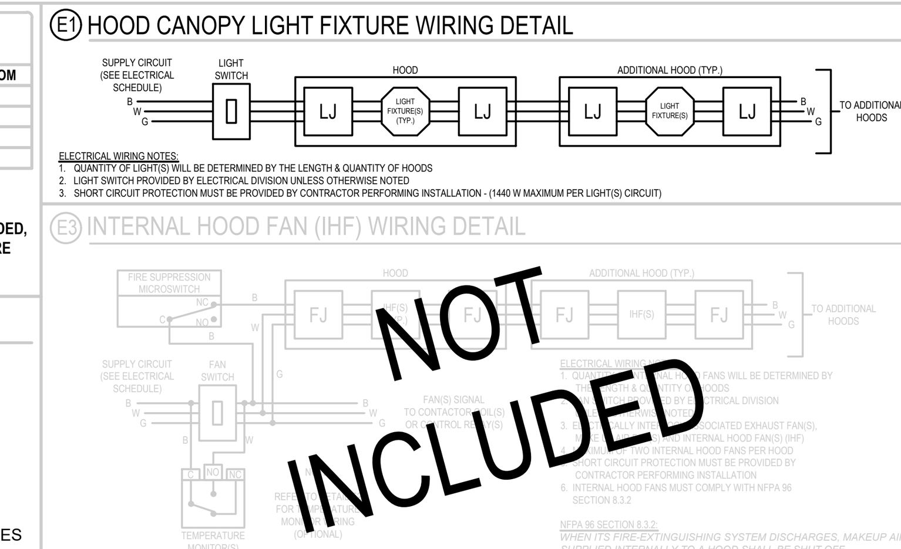
NOTE:
IF AN ELECTRICAL CONTROL PANEL FOR THE HOODS IS INCLUDED, THE ABOVE SCHEDULE IS NOT VALID. REFER TO DEMANDAIRE DRAWINGS.

ELECTRICAL LEGEND

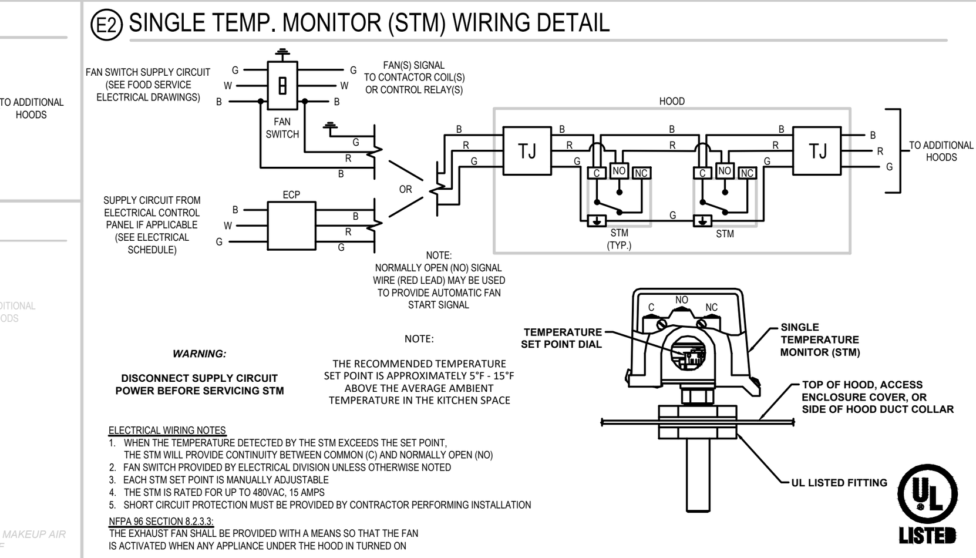
- STREIVOR FACTORY WIRING
- FIELD WIRING BY OTHERS
- LJ — HOOD CANOPY LIGHT(S) JUNCTION BOX
- TJ — TEMPERATURE MONITOR(S) JUNCTION BOX

NOTE: FACTORY INSTALLATION OF JUNCTION BOXES MAY DIFFER FROM LOCATION ON DRAWINGS

(E1) HOOD CANOPY LIGHT FIXTURE WIRING DETAIL

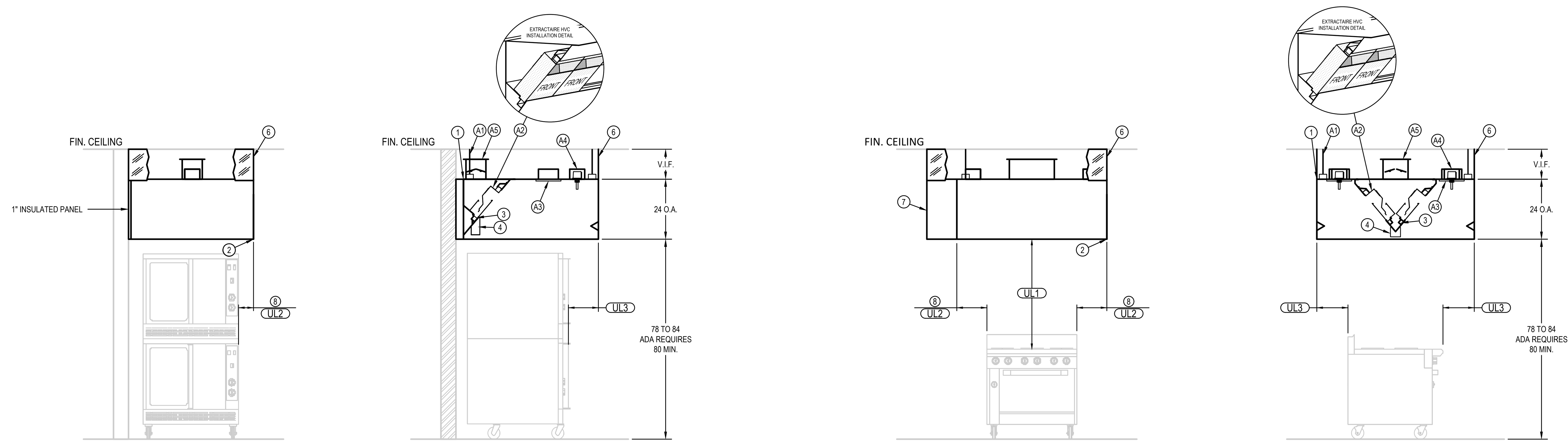


(E2) SINGLE TEMP. MONITOR (STM) WIRING DETAIL



HOOD #16
PLAN VIEW

HOOD #22
PLAN VIEW



HOOD #16
ELEVATION VIEW

HOOD #16
SECTION VIEW

HOOD #22
ELEVATION VIEW

HOOD #22
SECTION VIEW

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR; BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE - INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.

STANDARD NFPA 96 HOOD CLEARANCES
0" TO NON-COMBUSTIBLE MATERIALS
3" TO LIMITED-COMBUSTIBLE MATERIALS
18" TO COMBUSTIBLE MATERIAL

OVERHEAD CLEARANCES
10" CLEARANCE IS REQUIRED ABOVE THE HOOD

REDUCED CLEARANCES
REDUCED CLEARANCES MAY BE AVAILIABLE. CONSULT FACTORY FOR REDUCED CLEARANCE OPTIONS.

TEST AND BALANCE
THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEM(S).
VARIANCE EXHAUST = -0% +10%
VARIANCE SUPPLY= +10% -0%

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX: (925) 960-9055
WWW.STREIVOR.COM

PROJECT:
MOSSWOOD COMMUNITY CENTER
3612 WEBSTER ST.
OAKLAND, CA 94609
THE MARSHALL ASSOCIATES

HOOD #:	16 & 22
DATE:	06/22/2021
DRAWN BY:	SWB
CHECKED BY:	HLF
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1'-0"

IF BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT PLOTTED TO SCALE

△	DESCRIPTION	DATE	INT
△	---	--/--/--	---
△	---	--/--/--	---
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△	---	--/--/--	---
△	---	--/--/--	---

DRAWING:
H-01
SHEET 01 OF 01

CITY OF OAKLAND
BUREAU OF ENGINEERING AND CONSTRUCTION
250 FRANK H. OGAWA PLAZA
SUITE 4314
OAKLAND, CA 94612
(510) 238-3437
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MOSSWOOD COMMUNITY CENTER - PHASE 1

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SAN FRANCISCO, CA 94110
T 415 495 1700
F 415 495 1717
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The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers

Drawn by:
Designed by:
Checked by:

LMSa PROJECT NUMBER: 1902

No.	DATE	ISSUE DESCRIPTION
	08/20/21	95% CD / BUILDING PERMIT
△	03/17/22	PERMIT REVISIONS
	07/15/22	100% CD / BID SET

PLOT DATE:

Project Information
3612 WEBSTER ST., OAKLAND, CA 94609
1003625

Drawing Title
FOODSERVICE MANUFACTURER DRAWING EXHAUST HOOD

Drawing No.
FS.6
Sheet No.

DRAWING NAME: