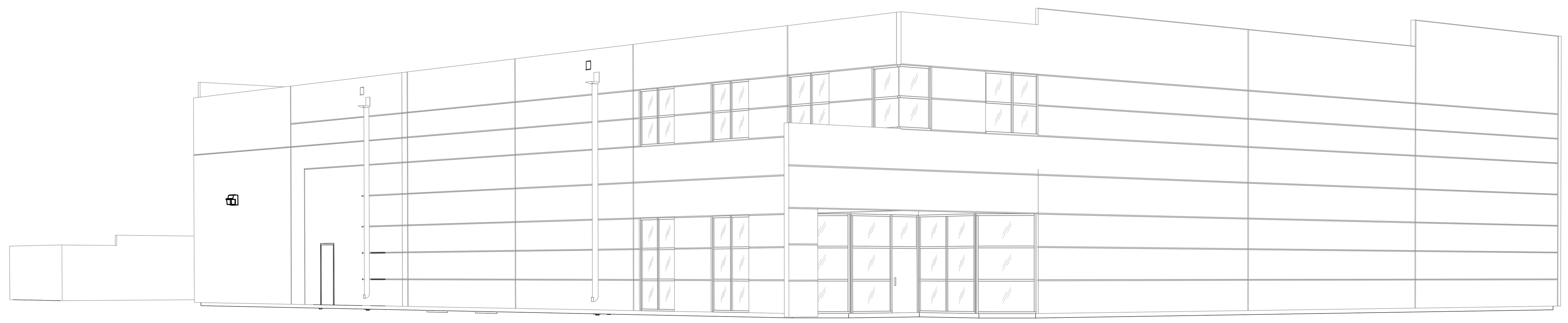
# FRESHMADE GROW

# TENANT IMPROVEMENT

## CULTIVATION FACILITY

## 4517 LITTLEJOHN STREET
## BALDWIN PARK, CA



## PROJECT DATA

| | |
|---|---|
| **AUTHORITY HAVING JURISDICTION:** | CITY OF BALDWIN PARK, CA. |
| **CODE ANALYSIS:** | SEE SHEETS A0.5 FOR COMPLETE CODE ANALYSIS |
| **APPLICABLE CODES:** | 2019 CALIFORNIA BUILDING CODE<br>2019 CALIFORNIA RESIDENTIAL CODE<br>2019 CALIFORNIA MECHANICAL CODE<br>2019 CALIFORNIA ELECTRICAL CODE<br>2019 CALIFORNIA PLUMBING CODE<br>2019 CALIFORNIA ENERGY CODE<br>2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)<br>BALDWIN PARK MUNICIPAL CODE |
| **ZONING:** | INDUSTRIAL (I) |
| **ASSESSOR'S PARCEL NO.:** | 8535-023-039 |
| **ORIGINAL CONSTRUCTION DATE** | 1990 |
| **OCCUPANCY CLASSIFICATION:** | PER CBC CHAPTER 3 - B, AND F-1 |
| **SPRINKLERED:** | YES |
| **NUMBER OF STORIES:** | 2 |
| **OCCUPANCY SEPARATION:** | PER CBC TABLE 508.4 - NO SEPARATION REQUIRED |
| **TYPE OF CONSTRUCTION:** | PER CBC CHAPTER 6 (SECTION 602.5) - VB (EXISTING) |
| **PROJECT SCOPE:** | THE SCOPE TO INCLUDE ADDING ± 8,700 SF IN 2ND FLOOR OF EXISTING BUILDING AND TENANT IMPROVMENT FOR INDOOR CULTIVATION & MANUFACTURING FACILITY THROUGHOUT THE WHOLE BUILDING WITH ± 25,300 SF.<br>THE SCOPE WILL INCLUDE PARKING RE STRIPING. |

**BUILDING AREA SUMMARY:**

| | 1ST FLOOR | 2ND FLOOR |
|---|---|---|
| OFFICE (B) | 950 | 1,000 |
| INDOOR CULTIVATION(F-1) & MANUFACTURING | 13,400 | 9,900 |
| SUB-TOTAL | 14,350 | 10,900 |
| TOTAL | 25.250 | |

## GENERAL NOTES:

1. ALL CANNABIS FACILITIES SHALL PROVIDE ODOR MITIGATION IN ACCORDANCE WITH MECHANICAL CODE AND CITY HANDOUT.

## SHEET INDEX

TOTAL SHEETS: 80

### ARCHITECTURAL


A0-1 TITLE SHEET
A0-3 ACCESSIBILITY DETAILS
A0-3a SITE ACCESSIBILITY DETAILS
A0-5a FIRE LIFE SAFETY - FIRST FLOOR
A0-5b FIRE LIFE SAFETY - SECOND FLOOR
AD1-1 DEMOLITION SITE PLAN
AD2-1 DEMOLITION FIRST FLOOR PLAN
AD2-2 DEMOLITION SECOND FLOOR PLAN
AD3-1 DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN
AD3-2 DEMOLITION SECOND FLOOR REFLECTED CEILING PLAN
AD6-0 DEMO ROOF PLAN
A1-0 SITE PLAN
A2-1 FIRST FLOOR PLAN
A2-2 SECOND FLOOR PLAN
A3-1 FIRST FLOOR REFLECTED CEILING PLAN
A3-2 SECOND FLOOR REFLECTED CEILING PLAN
A4-1 FIRST FINISH PLAN
A4-2 SECOND FINISH PLAN
A5-1 FIRST FLOOR EQUIPMENT PLAN
A5-2 SECOND FLOOR EQUIPMENT PLAN
A6-0 ROOF PLAN
A7-1 EXTERIOR ELEVATIONS
A8-1 ENLARGED PLANS & INTERIOR ELEVATIONS
A9-0 DOOR SCHEDULE
A10-0 DETAILS
A10-1 DETAILS
ARCHITECTURAL SHEET COUNT: 26


### STRUCTURAL


SN1 GENERAL NOTES
S1 FIRST FLOOR PLAN
S2 FIRST FLOOR CEILING PLAN
S3 SECOND FLOOR PLAN
S 4 SECOND FLOOR CEILING PLAN
S 5 ROOF PLAN
SD1 CONCRETE DETAILS
SD2 MASONRY DETAILS
SD3 MASONRY DETAILS
SD4 STEEL DETAILS
SD5 STEEL DETAILS
SD6 RTU DETAILS
SD7 METAL STUD DETAILS
SD8 PARTIAL ELEVATION
STRUCTURAL SHEET COUNT: 14


### MECHANICAL


M0-1 MECHANICAL NOTES AND SCHEDULES
M0-2 MECHANICAL SCHEDULES
M2-1 MECHANICAL FIRST FLOOR PLAN
M2-2 MECHANICAL SECOND FLOOR PLAN
M2-3 MECHANICAL ROOF PLAN
M3-1 MECHANICAL DETAILS
M4-1 TITLE 24 ENERGY CALCULATIONS
MECHANICAL SHEET COUNT: 7


### ELECTRICAL


E0-1 ELECTRICAL NOTES, APPLICABLE CODES AND DRAWING INDEX
E0-2 ELECTRICAL SYMBOLS AND LIGHTING FIXTURE SCHEDULE
E1-1 ELECTRICAL SITE PLAN
E2-1 SINGLE LINE DIAGRAM AND LOAD CALCULATIONS
E3-1 PANEL SCHEDULES
E3-2 PANEL SCHEDULES
E4-1 FIRST FLOOR ELECTRICAL PLAN
E4-2 SECOND FLOOR ELECTRICAL PLAN
E5-1 ROOF ELECTRICAL PLAN
E6-1 FIRST FLOOR LIGHTING PLAN
E6-2 SECOND FLOOR LIGHTING PLAN
E7-1 LIGHTING CONTROL DETAILS
E7-2 LIGHTING CONTROL DETAILS
E7-3 GROW (HORTICULTURE) LIGHTING CONTROL DETAILS
E8-1 TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING
E8-2 TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING
E9-1 ELECTRICAL DETAILS
E10-1 UTILITY (SCE) DETAILS
E10-2 UTILITY (SCE) DETAILS
ELECTRICAL SHEET COUNT: 19


### PLUMBING


P0-1 PLUMBING LEGEND AND NOTES
P0-2 PLUMBING FIXTURES AND CALCULATIONS
P0-3 PLUMBING FIXTURES
P0-4 PLUMBING DETAILS
P2-1 ENLARGED FLOOR PLUMBING PLANS
P2-2 PLUMBING DETAILS
P3-1 PLUMBING FIRST FLOOR PLAN - WATER
P3-2 PLUMBING SECOND FLOOR PLAN - WATER
P4-1 PLUMBING FIRST FLOOR PLAN - GAS
P4-2 PLUMBINGSECOND FLOOR PLAN - GAS
P5-1 PLUMBING DIAGRAMS
PLUMBING SHEET COUNT: 11


## ABBREVIATIONS

| | |
|---|---|
| # | POUND or NUMBER |
| & | AND |
| (E) | EXISTING |
| @ | AT |
| ~ | DIAMETER or ROUND |
| Ø | DIAMETER |
| □ | CENTERLINE |
| □ | ANGLE |
| A.D. | AREA DRAIN |
| ACOUS. | ACOUSTICAL |
| ACT. | ACOUSTICAL TILE |
| ADJ. | ADJUST, ADJUSTABLE or ADJACENT |
| AFF. | ABOVE FINISH FLOOR |
| AGGR. | AGGREGATE |
| AL. | ALUMINUM |
| APPROX. | APPROXIMATE(LY) |
| ARCH. | ARCHITECTURAL |
| ASB. | ASBESTOS |
| ASPH. | ASPHALT |
| B.O.C. | BOTTOM OF CONCRETE |
| B.O.M. | BOTTOM OF MULLION |
| B.O.R. | BOTTOM OF REVEAL |
| BD. | BOARD |
| BITUM. | BITUMINOUS |
| BLDG. | BUILDING |
| BLK. | BLOCK |
| BLKG. | BLOCKING |
| BM. | BEAM |
| BOT. | BOTTOM |
| C.B. | CATCH BASIN |
| C.G. | CORNER GUARD |
| C.O. | CASED OPENING |
| C.O.M. | CENTER OF MULLION |
| C.O.R. | CENTER OF REVEAL |
| C.W. | COLD WATER |
| CAB. | CABINET |
| CEM. | CEMENT(ITIOUS) |
| CER. | CERAMIC |
| CFCI. | CONT. FURNISHED / CONT. INSTALLED |
| CFOI. | CONT. FURNISHED / OWNER. INSTALLED |
| CLG. | CEILING |
| CLKG. | CAULKING |
| CLO. | CLOSET |
| CLR. | CLEAR |
| CNTR. | COUNTER |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CONN. | CONNECTION |
| CONSTR. | CONSTRUCTION |
| CONT. | CONTINUOUS |
| CONTR. | CONTRACTOR |
| CORR. | CORRIDOR |
| CPT. | CARPET |
| CTR. | CENTER |
| CTSK. | COUNTER-SUNK |
| D. | DEEP |
| D.F. | DRINKING FOUNTAIN |
| D.O. | DOOR OPENING |
| D.S. | DOWNSPOUT |
| D.S.P. | DRY STANDPIPE |
| DBL. | DOUBLE |
| DEPT. | DEPARTMENT |
| DET. | DETAIL |
| DIA. | DIAMETER |
| DIAG. | DIAGNONAL |
| DIFF. | DIFFUSER |
| DIM. | DIMENSION |
| DISP. | DISPENSER |
| DN. | DOWN |
| DR. | DOOR |
| DWG. | DRAWING |
| DWR. | DRAWER |
| E. | EAST |
| E.J. | EXPANSION JOINT |
| E.P. | ELECTRIC PANELBOARD |
| E.W.C. | ELECTRIC WATER COOLER |
| EA. | EACH |
| EL. | ELEVATION |
| ELEC. | ELECTRIC(AL) |
| ELEV. | ELEVATOR |
| EMER. | EMERGENCY |
| ENCL. | ENCLOSED or ENCLOSURE |
| EQ. | EQUAL |
| EQPT. | EQUIPMENT |
| EXP. | EXPANSION |
| EXPO. | EXPOSED |
| EXST. | EXISTING |
| EXT. | EXTERIOR |
| F.A. | FIRE ALARM |
| F.D. | FLOOR DRAIN |
| F.E. | FIRE EXTINGUISHER |
| F.E.C. | FIRE EXTINGUISHER CABINET |
| F.O.C. | FACE OF CONCRETE |
| F.O.F. | FACE OF FINISH |
| F.O.M. | FACE OF MULLION |
| F.O.SH. | FACE OF SHEATHING |
| F.P. | FIREPROOF |
| FDN. | FOUNDATION |
| FIN. | FINISH(ED) |
| FL. | FLOOR |
| FLASH. | FLASHING |
| FLUOR. | FLUORESCENT |
| FT. | FOOT or FEET |
| FTG. | FOOTING |
| FURR. | FURRING |
| FUT. | FUTURE |
| G.B. | GRAB BAR |
| GA. | GAUGE |
| GALV. | GALVANIZED |
| GL. | GLASS |
| GND. | GROUND |
| GR. | GRADE |
| GYP. | GYPSUM |
| H.B. | HOSE BIBB |
| H.C. | HOLLOW CORE |
| H.M. | HOLLOW METAL |
| HDWD. | HARDWOOD |
| HDWE. | HARDWARE |
| HORIZ. | HORIZONTAL |
| HR. | HOUR |
| HT. | HEIGHT |
| I.D. | INSIDE DIMENSION |
| INSUL. | INSULATION or INSULATED |
| INT. | INTERIOR |
| JAN. | JANITOR |
| JT. | JOINT |
| KIT. | KITCHEN |
| LAB. | LABORATORY |
| LAM. | LAMINATE(D) |
| LAV. | LAVATORY |
| LKR. | LOCKER |
| LT. | LIGHT |
| M.O. | MASONRY OPENING |
| MAX. | MAXIMUM |
| MECH. | MECHANICAL |
| MEMB. | MEMBRANE |
| MET. | METAL |
| MFR. | MANUFACTURER |
| MH. | MANHOLE |
| MIN. | MINIMUM |
| MIR. | MIRROR |
| MISC. | MISCELLANEOUS |
| MTD. | MOUNTED |
| MUL. | MULLION |
| N. | NORTH |
| N.I.C. | NOT IN CONTRACT |
| N.T.S. | NOT TO SCALE |
| NO. | NUMBER |
| NOM. | NOMINAL |
| O.A. | OVERALL |
| O.C. | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| OBS. | OBSCURE |
| OFCI. | OWNER FURNISHED / CONT. INSTALLED |
| OFF. | OFFICE |
| OFOI. | OWNER FURNISHED / OWNER INSTALLED |
| OPNG. | OPENING |
| OPP. | OPPOSITE |
| P.C. | PRECAST |
| P.J. | PANEL JOINT |
| P.LAM. | PLASTIC LAMINATE |
| P.T.D. | PAPER TOWEL DISPENSER |
| P.T.R. | PAPER TOWER RECEPTACLE |
| PL. | PLATE |
| PLAS. | PLASTER |
| PLYWD. | PLYWOOD |
| PR. | PAIR |
| PT. | POINT |
| PTN. | PARTITION |
| Q.T. | QUARRY TILE |
| R. | RISER |
| R.D. | ROOF DRAIN |
| R.O. | ROUGH OPENING |
| R.W.L. | RAIN WATER LEADER |
| RAD. | RADIUS |
| REF. | REFERENCE |
| REFR. | REFRIGERATOR |
| REINF. | REINFORCE(D) |
| REQ. | REQUIRED |
| RESIL. | RESILIENT |
| RGTR. | REGISTER |
| RM. | ROOM |
| RWD. | REDWOOD |
| S. | SOUTH |
| S.C. | SOLID CORE |
| S.C.D. | SEAT COVER DISPENSER |
| S.D. | SOAP DISPENSER |
| S.S. | STAINLESS STEEL |
| S.SK. | SERVICE SINK |
| SCHED. | SCHEDULE |
| SECT. | SECTION |
| SH. | SHELF |
| SHR. | SHOWER |
| SHT. | SHEET |
| SIM. | SIMILAR |
| SPEC. | SPECIFIED or SPECIFICATION |
| SQ. | SQUARE |
| STA. | STATION |
| STL. | STEEL |
| STOR. | STORAGE |
| STRL. | STRUCTURE or STRUCTURAL |
| SUSP. | SUSPENDED |
| SYMM. | SYMMETRICAL |
| T&G | TONGUE AND GROOVE |
| T. | TREAD |
| T.B. | TOWEL BAR |
| T.C. | TOP OF CURB |
| T.O.C. | TOP OF CONCRETE |
| T.O.M. | TOP OF MULLION |
| T.O.P. | TOP OF PARAPET |
| T.O.R. | TOP OF REVEAL |
| T.O.REC. | TOP OF DEEP RECESS |
| T.O.W. | TOP OF WALL |
| T.P. | TOP OF PAVEMENT |
| T.P.D. | TOILET PAPER DISPENSER |
| T.V. | TELEVISION |
| TEL. | TELEPHONE |
| TER. | TERRAZZO |
| THK. | THICK |
| TYP. | TYPICAL |
| U.O.N. | UNLESS OTHERWISE NOTED |
| UNF. | UNFINISHED |
| UR. | URINAL |
| V.I.F. | VERIFY IN FIELD |
| VERT. | VERTICAL |
| W. | WEST |
| W.C. | WATER CLOSET |
| W/ | WITH |
| W/O | WITHOUT |
| WD. | WOOD |
| WP | WATERPROOF |
| WSCT. | WAINSCOT |
| WT. | WEIGHT |

## GENERAL PROJECT NOTES

### GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED SO AS TO COMPLY WITH ALL LEGAL, INDUSTRY AND PROJECT-SPECIFIC REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION OF THE FOLLOWING:
   A. ALL APPLICABLE BUILDING CODES
   B. ALL APPLICABLE SPECIALTY CODES INCLUDING THE MOST CURRENT ISSUES AND SUPPLEMENTS
   C. THE PROJECT MANUAL AND ASSOCIATED SPECIFICATIONS
   D. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS
   E. ALL APPLICABLE LANDLORD BUILDING STANDARDS
2. IN USING THESE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, ALL CONTRACTORS ARE REQUIRED TO REVIEW AND TREAT THEM AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT THEIR PORTION OF THE WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES OR IN DOCUMENTS PROVIDED BY OTHER MEMBERS OF THE PROJECT DESIGN TEAM. UNLESS EXPRESSLY PROVIDED OTHERWISE, THE INTENT IS TO INCLUDE ALL LABOR, MATERIALS, PRODUCTS AND SERVICES NECESSARY OR APPROPRIATE FOR THE COMPLETED PROJECT AS CALLED FOR OR REASONABLY IMPLIED FROM THE PLANS AND SPECIFICATIONS PROVIDED BY THE PROJECT'S DESIGN TEAM. IN CASE OF CONFLICTS OR OMISSIONS, THE AFFECTED CONTRACTOR IS REQUIRED TO EITHER OBTAIN DIRECTION FROM AN APPROPRIATE REPRESENTATIVE OF THE OWNER, OR OTHERWISE TO APPLY THE MORE STRINGENT OR COSTLY STANDARD.
3. IN INTERPRETING THESE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   A. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS
   B. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS
   C. WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN AND SPECIFIED
   D. WORK SHOWN AS "NIC" IS FOR REFERENCE ONLY AND THE RESPONSIBILITY OF THE CONTRACTOR ONLY TO THE EXTENT THAT THIS WORK MAY REQUIRE SOME REASONABLE PROTECTION OR COORDINATION EFFORTS.
4. THESE PLANS AND SPECIFICATIONS ARE INTENDED TO REPRESENT ONLY THE FINISHED CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION AND DEMOLITION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES INCLUDING ANY AND ALL SAFETY PRECAUTIONS AND PROGRAMS, AND SHALL INDEMNIFY TO THE FULLEST EXTENT ALLOWED BY LAW THE OWNER AND THE PROJECT DESIGN TEAM FROM AND AGAINST ANY AND ALL RELATED CLAIMS AND LIABILITY.
5. THESE PLANS AND SPECIFICATIONS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEY ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR INFORMATION (RFIs). ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED, AND ALL CONTRACTORS ARE REQUIRED TO CAREFULLY REVIEW THESE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER; AND ANY CONTRACTOR WHO FAILS TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING ASSUMES THE RISK OF ANY CONSEQUENCES.
6. SCALED DIMENSIONS SHOULD BE CONSIDERED ONLY APPROXIMATE; AND IN ANY EVENT ALL CONTRACTORS PROCEED AT THEIR OWN RISK IF THEY FAIL TO VERIFY AND FIELD MEASURE DIMENSIONS BEFORE PROCEEDING WITH ANY AFFECTED PROCUREMENT, FABRICATION OR CONSTRUCTION.
7. PLANS ARE TO BE CONSIDERED DIAGRAMMATIC IN NATURE AND INTENDED ONLY TO DEMONSTRATE THE RELATIONSHIP AMONG COMPONENT PARTS, AND NOT TO DEPICT SPECIFIC LOCATIONS.
8. CONTRACTOR RFI's ARE INTENDED TO OBTAIN INFORMATION NOT AVAILABLE FROM THE PLANS AND SPECIFICATIONS. RFI's WILL NOT BE PROCESSED THAT CAN BE ANSWERED BY A REVIEW OF THESE DOCUMENTS, THAT REQUEST DIMENSIONS THAT CAN BE OBTAINED FROM THE PLANS BY MATHEMATICAL CALCULATION THAT ARE IN EFFECT A SUBSTITUTION SUBMITTAL, OR THAT SEEK DIRECTION CONCERNING CONSTRUCTION MEANS AND METHODS OR SAFETY PRECAUTIONS. WHERE APPROPRIATE, RFI's SHOULD BE SPECIFIC AS TO WHICH PORTION OF THE PLANS AND SPECIFICATIONS NEEDS CLARIFICATION, AND WHAT INFORMATION IS REQUIRED.
9. NO DEVIATIONS OR OMISSIONS FROM THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS PROVIDED BY THE PROJECT'S DESIGN TEAM ARE ALLOWED WITHOUT THE EXPRESSED AUTHORIZATION OF AN APPROPRIATE OWNER REPRESENTATIVE, AND THE RESPONSIBLE CONTRACTOR WILL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE PROJECT DESIGN TEAM FROM AND AGAINST THE CONSEQUENCES OF ANY UNAUTHORIZED DEVIATIONS OR OMISSIONS. SUBSTITUTION SUBMITTALS WILL BE CONSIDERED ONLY IF THE PROPOSED SUBSTITUTION IMPROVES THE QUALITY OF THE PROJECT TO THE OWNER; AND IN NO EVENT WILL THE OWNER BE REQUIRED TO AUTHORIZE A SUBSTITUTION THAT IS NOT EQUAL IN QUALITY TO WHAT IS SPECIFIED.
10. CONTRACTOR SUBMITTALS WILL BE REVIEWED BY THE PROJECT DESIGN TEAM, IF AT ALL, ONLY FOR CONFORMANCE WITH THE AESTHETIC ASPECTS AND MAJOR SPACE LIMITATIONS OF THE PROJECT; AND EACH CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
   A. PREPARING ALL THE ENGINEERING AND OTHER DRAWINGS AND SPECIFICATIONS FOR THE COMPONENTS OF ITS UNDERTAKING.
   B. COMPLYING WITH THE PROJECT'S REQUIREMENTS AND SPACE LIMITATIONS.
   C. COORDINATION AND INTERFACING WITH OTHER TRADES AND CONSULTANTS.
   D. OBTAINING ANY REQUIRED OR APPROPRIATE APPROVALS FROM AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.
   E. HAVING THEIR DESIGN CONSULTANTS SERVE AS THE PROFESSIONAL OF RECORD FOR THE PORTIONS OF WORK WHICH THEY DESIGN.
11. AT THE CONCLUSION OF THE CONSTRUCTION, EACH PRIME CONTRACTOR SHALL PROVIDE SUCH WRITTEN CERTIFICATION THAT THE CONSTRUCTION HAS BEEN PERFORMED IN COMPLIANCE WITH THE PROJECT'S APPROVED PLANS AND SPECIFICATIONS AS THE BUILDING OFFICIAL WITH JURISDICTION OVER THE PROJECT MAY REQUIRE, OR AS THE OWNER MAY REASONABLY REQUEST.
12. VERSIONS OF THESE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISION AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF THE PROJECT DESIGN TEAM, INCLUDING WITHOUT LIMITATION THEIR COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY OTHER USE FOR ANY OTHER PURPOSE COULD CONSTITUTE ACTIONABLE PLAGIARISM. ANY ELECTRONIC DOCUMENTS WILL BE PROVIDED IN THE RESPONSIBLE DESIGN PROFESSIONAL'S STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF THE ABSENCE OF VIRUSES OR OTHER HARMFUL MATERIAL, OR OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE SO THAT ANY USE WITH OR CONVERSION TO THE OTHER FORMS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

### JOB SITE NOTES

1. WHERE EXISTING TENANTS/BUSINESSES ARE ADJACENT TO THE JOB SITE/TENANT, THE CONTRACTOR SHALL MINIMIZE CONSTRUCTION NOISE - EXTREMELY NOISY CONSTRUCTION SHALL OCCUR AT NON-TYPICAL BUSINESS HOURS. CONTRACTOR SHOULD NOTIFY BUILDING REPRESENTATIVE OF SPECIAL CIRCUMSTANCES IN ADVANCE PRIOR TO WORK.
2. THE CONTRACTOR AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST AND DEBRIS. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR AND WATER POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
3. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL INFORM THE BUILDING REPRESENTATIVE OF THE LOCATION OF DISPOSAL SITES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL CLEANING OF THE JOB AFTER ITS COMPLETION. WHERE APPLICABLE, CLEANING SHALL INCLUDE, BUT NOT BE LIMITED TO, THE EXTERIOR AND THE INTERIOR OF THE BUILDING, THE PATH OF TRAVEL TO THE JOB SITE, PARKING LOTS, ELEVATORS, LOBBIES, AND CORRIDOR CARPETS.
5. THE CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION, WHERE REQUIRED PER STATE AND LOCAL CODES.
6. NO HAZARDOUS MATERIALS SHALL BE USED OR STORED WITHIN THE BUILDING WHICH DOES NOT COMPLY WITH THE LOCAL FIRE AUTHORITY AND STATE & COUNTY REQUIREMENTS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING OFF SUPPLY AND RETURN AIR GRILLES, DIFFUSERS & DUCTS TO KEEP DUST FROM ENTERING INTO BUILDING AIR DISTRIBUTION SYSTEMS.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE BUILDING AND SITE WHILE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.

### DRAWING NOTES

1. UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS ON THESE DOCUMENTS SHALL BE TO FACE OF CURB, FACE OF CONCRETE OR MASONRY, FACE OF STUD.
2. ALL VERTICAL DIMENSIONS SHOWN ARE FROM FLOOR SLAB, U.O.N.
3. DIMENSIONS SHOWN IN FIGURES TAKE PRECEDENCE OVER DIMENSIONS SCALED FROM DRAWINGS. LARGE SCALE DRAWINGS AND DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
4. THE TERM "ALIGN", AS USED IN THESE DOCUMENTS, SHALL MEAN TO ACCURATELY LOCATE FINISHES IN THE SAME PLANE.
5. "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, U.O.N.
6. DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" ONLY ONCE, WHEN THEY FIRST OCCUR AND ARE REPRESENTATIVE OF ALL SIMILAR CONDITIONS THROUGHOUT, U.O.N.
7. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK IN THE SAME BUILDING.

### INTERIOR/EXTERIOR NOTES

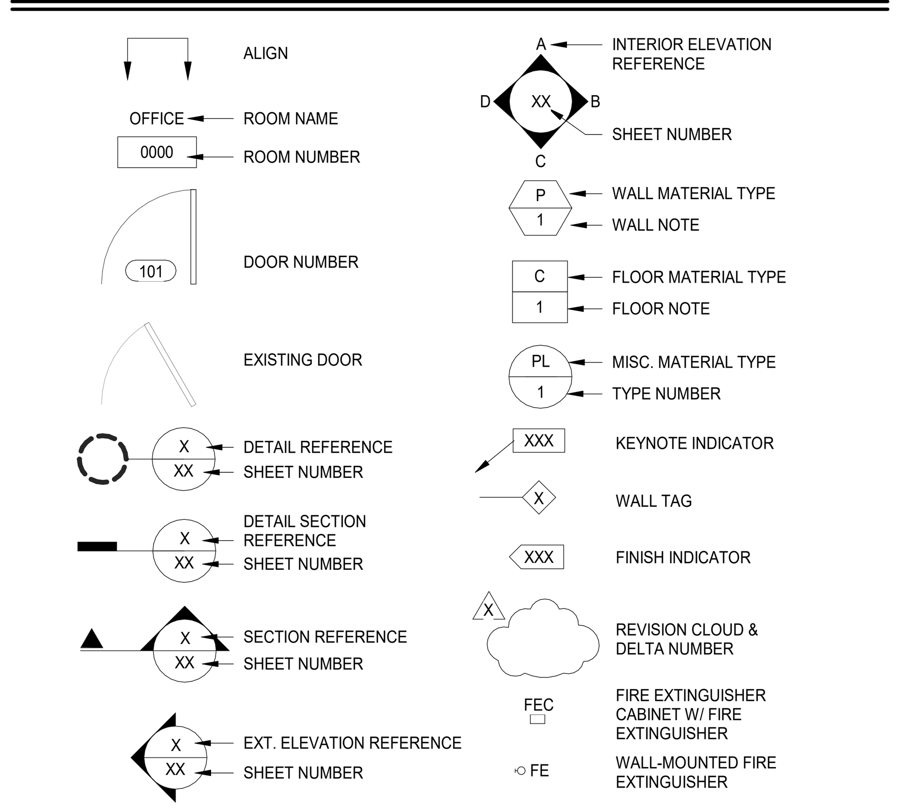
1. WHERE ELECTRICAL, MECHANICAL AND/OR PLUMBING ITEMS, SUCH AS LIGHTS, DUCTS, PIPING, DOWNSPOUTS, ETC. ARE TO PENETRATE ANY BUILDING FOOTINGS, SLABS, FLOORS, STRUCTURAL FRAMING, WALL PARTITIONS, CEILINGS, ETC., IT IS REQUIRED THAT AN APPROPRIATELY SIZED OPENING OR CLEARANCE BE FURNISHED. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ITEMS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. ANY CONFLICT OR DISCREPANCY WITHIN CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION.
2. CONTRACTOR, ALONG WITH MECHANICAL CONTRACTOR, SHALL PROVIDE AND LOCATE ACCESS DOORS/PANELS IN WALL & CEILING CONSTRUCTION AS REQUIRED TO PROVIDE ACCESS TO MECHANICAL, FIRE SPRINKLER, PLUMBING & ELECTRICAL WORK. CONTRACTOR SHALL SUBMIT A PLAN OF ALL PROPOSED ACCESS PANEL LOCATIONS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
3. ALL PENETRATIONS AT RATED CONSTRUCTION SHALL BE PROTECTED TO MAINTAIN RATING.
4. WHERE OCCURS, CONTRACTOR SHALL PATCH ANY EXISTING WALLS AND/OR CEILINGS AS NEEDED TO REFURBISH THE LEASE SPACE AND REPAIR ALL DAMAGES CAUSED BY CONTRACTOR.
5. INTERIOR WALLS AND CEILINGS SHALL BE INSTALLED IN ACCORDANCE TO STATE & LOCAL CODES, INCLUDING REQUIREMENTS FOR FLAME SPREAD AND SMOKE DENSITY RATINGS FOR FINISH MATERIALS.
6. WHEN USED, ALL NOISE BARRIER BATTS (SOUND INSULATION) AND INSULATION BATTS SHALL BE NON-COMBUSTIBLE AND SHALL NOT CONTAIN OR UTILIZE OZONE DEPLETING COMPOUNDS.
7. ALL NEW CONSTRUCTION MATERIALS SHALL BE 100% ASBESTOS-FREE.

## DEFERRED SUBMITTALS

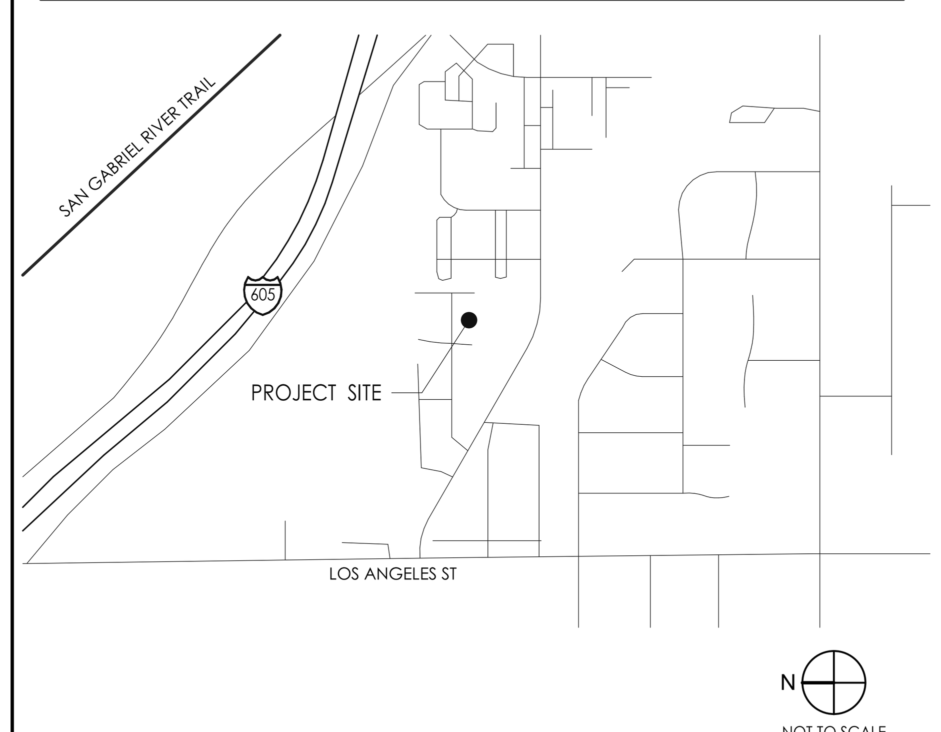
DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEERS OF RECORD WHO SHALL REVIEW AND PROVIDE NOTATION INDICATING DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. SUBMITTAL MATERIALS SHALL INCLUDE PLANS, DETAILS AND CALCULATIONS PREPARED AND SIGNED BY A STATE REGISTERED ENGINEER.
CONTRACTOR SHALL SUBMIT ARCHITECT AND ENGINEER REVIEWED SUBMITTAL MATERIALS TO THE BUILDING OFFICIAL FOR REVIEW AND PERMIT APPROVAL. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED PRIOR TO OBTAINING THE BUILDING OFFICIAL'S APPROVAL OF THE SUBMITTAL.

1. ALTERATIONS TO FIRE SPRINKLER SYSTEM.
2. FIRE ALARM SYSTEM.
3. EXTERIOR BUILDING SIGNAGE.
4. ANCHORAGE DESIGN FOR ALL EQUIPMENT IF REQUIRED.
5. HIGH PILED STORAGE (IF THERE IS ANY).
6. PREFAB INSULATED WALL/CEILING PANEL DESIGN & DETAILS.
7. CO2 ENRICHMENT SYSTEM.

## SYMBOLS




## VICINITY MAP

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TITLE SHEET

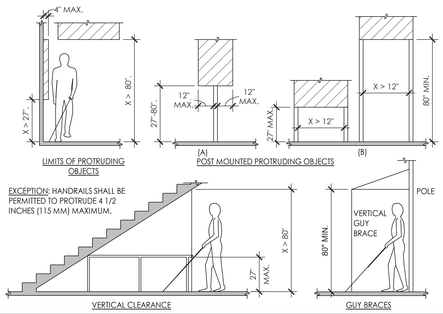
| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

04/15/2021 PROGRESS SET

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -.----.-- |

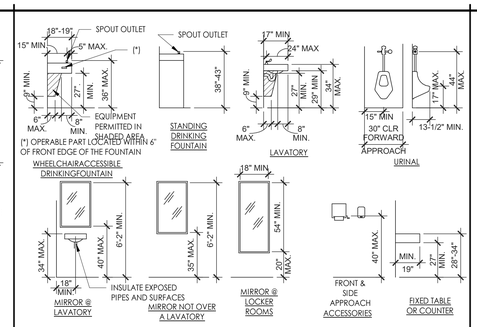
SHEET

# A0-1



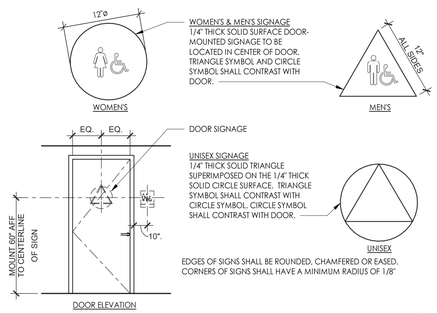

# PROTRUDING OBJECTS

SCALE: 1/4" = 1'-0" | 21



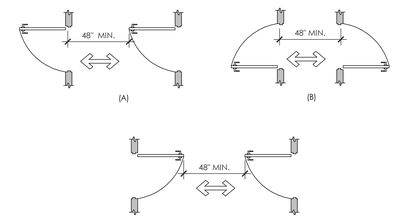

# MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0" | 16




# (DOOR MOUNTED)

SCALE: 1/2" = 1'-0" | 11



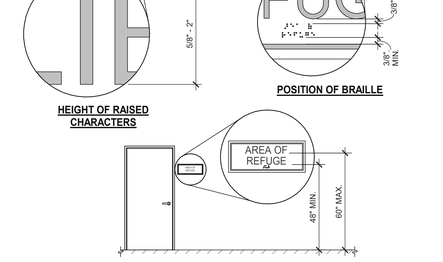

**DOORS IN SERIES AND GATES IN SERIES**

# DOORS, DOORWAYS & GATES

SCALE: 1/4" = 1'-0" | 6

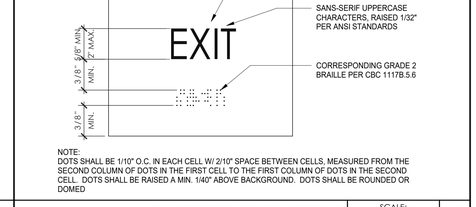
## ACCESSIBILITY NOTES

1. "THE ACCESSIBILITY GUIDELINES AND CODES" MENTIONED BELOW REFER TO ALL APPLICABLE LOCAL/STATE BUILDING CODES REFERENCED ON THE PROJECT DATA SHEET OF THIS SET IN ADDITION TO THE FEDERAL REQUIREMENTS OF THE ADA (THE AMERICANS WITH DISABILITIES ACT).
2. DETAILS ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO THE ACCESSIBILITY GUIDELINES AND CODES FOR ALL ACCESSIBILITY REQUIREMENTS.
3. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE ACCESSIBILITY GUIDELINES AND CODES.
4. ANY DISCREPANCY CONTAINED HEREIN DOES NOT RELIEVE THE GENERAL CONTRACTOR OR OWNER FROM COMPLYING WITH THE ACCESSIBILITY GUIDELINES AND CODES.




# GEOMETRIC SYMBOLS
# BRAILLE MEASUREMENT

SCALE: 3/8" = 1'-0" | 23




NOTE:
DOTS SHALL BE 1/10" O.C. IN EACH CELL W/ 2/10" SPACE BETWEEN CELLS. MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MIN. 1/40" ABOVE BACKGROUND. DOTS SHALL BE ROUNDED OR DOMED

# TACTILE "EXIT" SIGN

SCALE: 6" = 1'-0" | 18

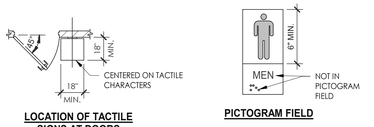



**HEIGHT OF RAISED CHARACTERS**

**POSITION OF BRAILLE**




**HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND**




**LOCATION OF TACTILE SIGNS AT DOORS**

**PICTOGRAM FIELD**

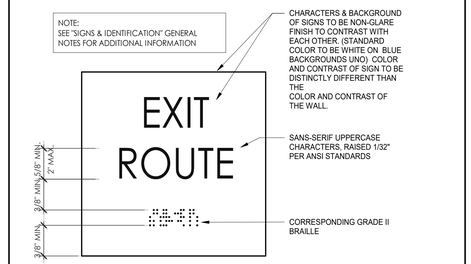
**INTERNATIONAL SYMBOL OF ACCESSIBILITY**

**INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS**

# SIGNS

SCALE: 1/4" = 1'-0" | 25

NOTE:
SEE "SIGNS & IDENTIFICATION" GENERAL NOTES FOR ADDITIONAL INFORMATION



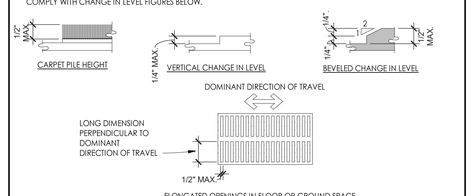

NOTE:
DOTS SHALL BE 1/10" O.C. IN EACH CELL W/ 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MIN. 1/40" ABOVE BACKGROUND. DOTS SHALL BE ROUNDED OR DOMED

# TACTILE "EXIT ROUTE" SIGN

SCALE: 6" = 1'-0" | 19

NOTES:

1. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
2. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL COMPLY WITH CARPET PILE HEIGHT FIGURE BELOW. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE SHALL COMPLY WITH CHANGE IN LEVEL FIGURES BELOW.

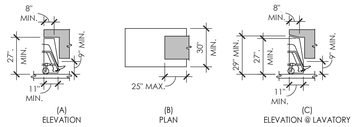



# FLOOR OR GROUND SURFACES & CHANGES IN LEVEL

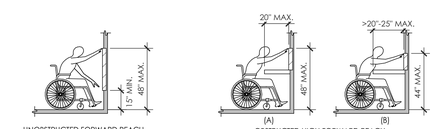
SCALE: 1/2" = 1'-0" | 20




TOE CLEARANCE

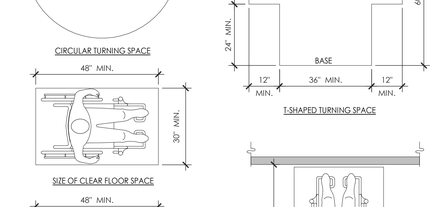



KNEE CLEARANCE



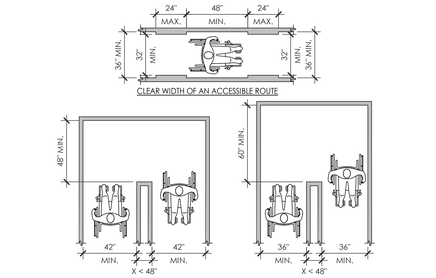

# REACH RANGES

SCALE: 1/4" = 1'-0" | 12




# CLEAR FLOOR SPACE

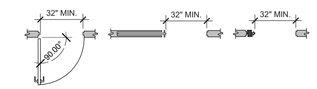
SCALE: 1/2" = 1'-0" | 14



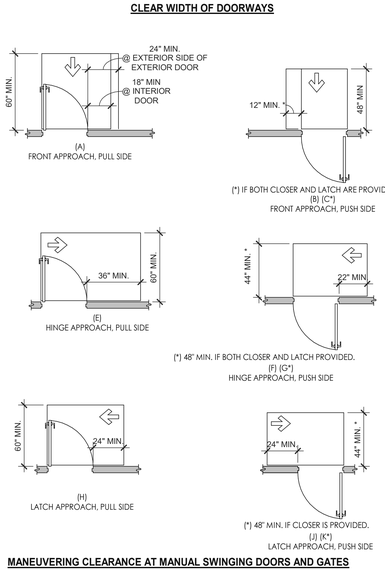

# CLEAR WIDTH

SCALE: 1/4" = 1'-0" | 15

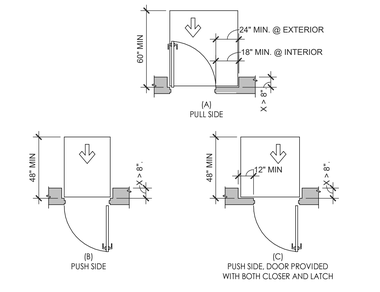
NOTES:
1. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL AND SHALL HAVE A SLOPE NOT STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED AT DOOR LANDINGS.
2. THRESHOLDS, IF PROVIDED AT DOORWAYS SHALL BE 1/2" HIGH MAX. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH [FLOOR OR GROUND SURFACES & CHANGES IN LEVEL] DETAIL.
3. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OR THE WRIST.
4. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS (22.5 N) MAX.
5. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MIN. AND 44" MAX. ABOVE THE FINISH FLOOR OR GROUND.
6. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
7. DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90° THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MIN.
8. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70° THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN.
9. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
9.1. INTERIOR HINGED DOORS AND GATES: 5 LBS (22.5 N) MAX.
9.2. SLIDING OR FOLDING DOORS: 5 LBS (22.5 N) MAX.
9.3. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.7N).
9.4. EXTERIOR HINGED DOORS: 5 LBS (22.5 N) MAX.
10. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACE SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
11. WHERE AUTOMATIC AND POWER-ASSISTED DOORS AND GATES WITHOUT STANDBY POWER ARE PART OF A MEANS OF EGRESS THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32" MIN. WHEN OPERATED IN EMERGENCY MODE.




**CLEAR WIDTH OF DOORWAYS**



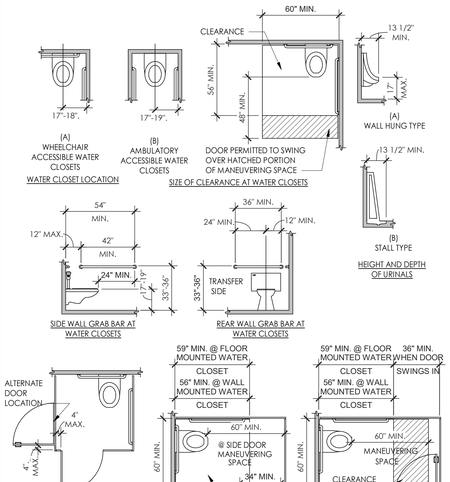

**MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES**




**MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES**

# DOORS, DOORWAYS & GATES

SCALE: 1/4" = 1'-0" | 10




# WATER CLOSETS AND TOILET COMPARTMENTS & URINALS

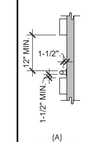
SCALE: 1/4" = 1'-0" | 4

CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

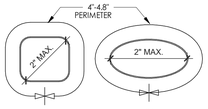
SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.

BACKING. PROVIDE MIN. 6 INCHES x 16 GA CONTINUOUS SHEET METAL BACKING ATTACHED TO MIN. 3 STUD BAYS WITH #10 FLAT HEAD SHEET METAL SCREWS. INSTALL GRAB BARS PER MANUFACTURER'S REQUIREMENTS.




**SPACING OF GRAB BARS**




**GRAB BAR NON-CIRCULAR CROSS SECTION**

# GRAB BARS

SCALE: 1/4" = 1'-0" | 5

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ACCESSIBILITY DETAILS

| | DATE | REMARKS |
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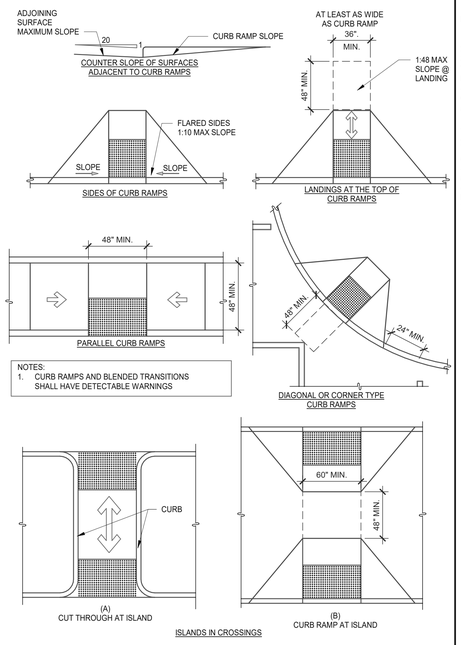
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -.---.-- |

SHEET

A0-3

04/15/2021 PROGRESS SET

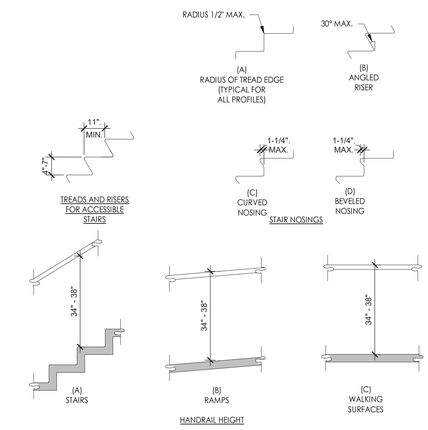


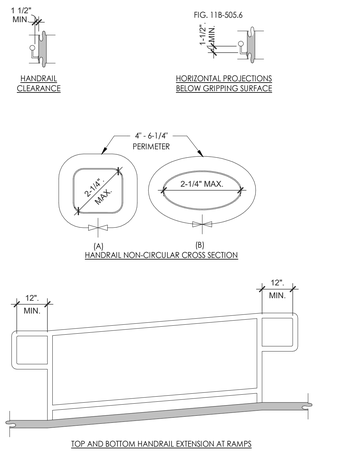

# CURB RAMPS

| SCALE: | |
|---|---|
| 1/4" = 1'-0" | 16 |

NOTES:

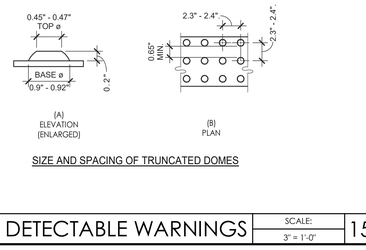
1. OPEN RISERS ARE NOT PERMITTED.
2. TREAD SURFACES SHALL COMPLY WITH (FLOOR OR GROUND SURFACES & CHANGES IN LEVEL) DETAIL.
3. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES (51 MM) WIDE TO A MAXIMUM OF 4 INCHES ( 102 MM) WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH (25 MM) FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.
4. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOM OF THE HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH, WHERE PROVIDED. HORIZONTAL PROJECTIONS SHALL OCCUR 1-1/2" (38 MM) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.
5. HANDRAIL GRIPPING SURFACES WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4" (32 MM) MINIMUM AND 2" MAXIMUM.
6. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
7. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.



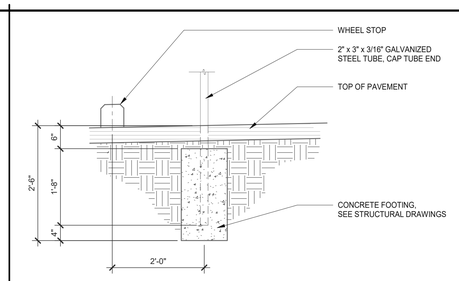

# STAIRWAYS AND HANDRAILS

| SCALE: | |
|---|---|
| 1/2" = 1'-0" | 14 |



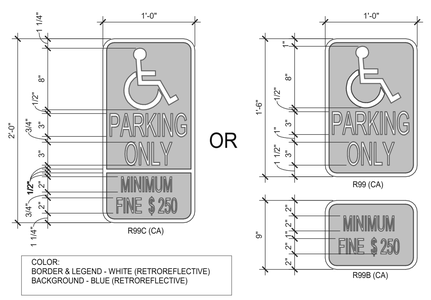

# DETECTABLE WARNINGS

| SCALE: | |
|---|---|
| 3" = 1'-0" | 15 |



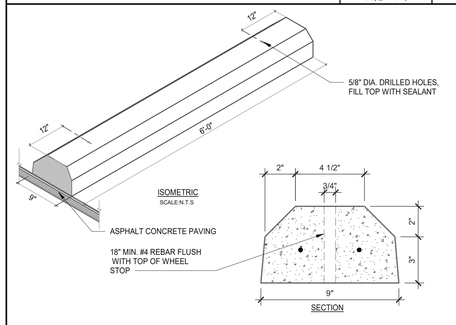

# TYPICAL SIGN FOUNDATION

| SCALE: | |
|---|---|
| 3/4" = 1'-0" | 6 |



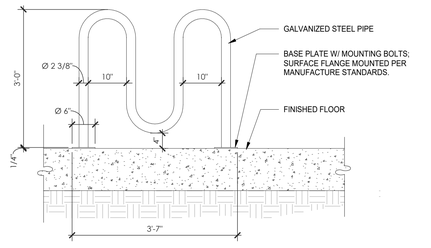

# ACCESSIBLE SIGNS

| SCALE: | |
|---|---|
| 1 1/2" = 1'-0" | 7 |



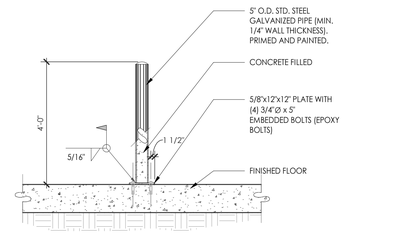

# PRECAST CONC. WHEELSTOP

| SCALE: | |
|---|---|
| 3" = 1'-0" | 8 |



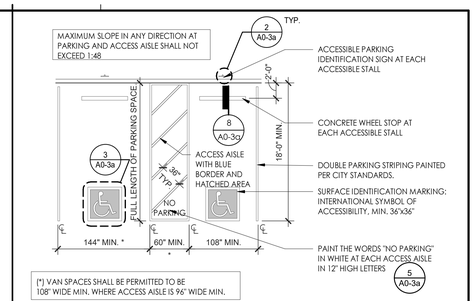

# BIKE RACK

| SCALE: | |
|---|---|
| 3/4" = 1'-0" | 9 |



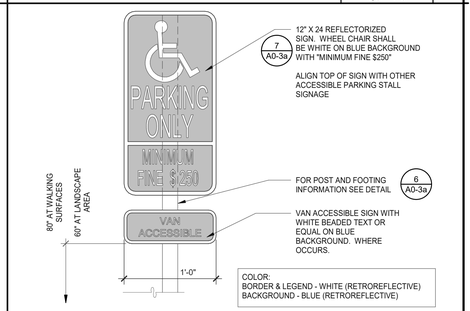

# BOLLARD

| SCALE: | |
|---|---|
| 1/2" = 1'-0" | 10 |



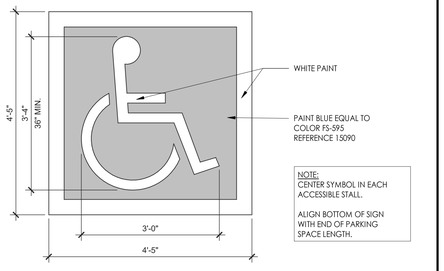

# VEHICLE PARKING SPACES

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




# VAN ACCESSIBLE SIGNAGE

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




# INTL. SYM. OF ACCESSIBILITY

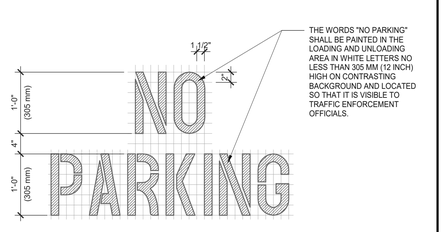
| SCALE: | |
|---|---|
| 3/4" = 1'-0" | 3 |

PARKING SPACES

| TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY | MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES |
|---|---|
| 1 TO 25 | 1 |
| 26 TO 50 | 2 |
| 51 TO 75 | 3 |
| 76 TO 100 | 4 |
| 101 TO 150 | 5 |
| 151 TO 200 | 6 |
| 201 TO 300 | 7 |
| 301 TO 400 | 8 |
| 401 TO 500 | 9 |
| 501 TO 1000 | 2 PERCENT OF TOTAL |
| 1001 AND OVER | 20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000 |

# PARKING SPACES

| SCALE: | |
|---|---|
| 12" = 1'-0" | 4 |




# "NO PARKING" MARKING

| SCALE: | |
|---|---|
| 1" = 1'-0" | 5 |

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TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SITE ACCESSIBILITY DETAILS

| | DATE | REMARKS |
|---|---|---|
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| | |
|---|---|
| PA/PM: | S. PAKBAZ |
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| JOB NO.: | -.----.-- |

SHEET

A0-3a

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### EGRESS SIZING - SECTION 1005

CULTIVATION FACILITY

| TOTAL OCCUPANT LOAD | EGRESS WIDTH REQUIRED FOR EGRESS COMPONENTS - 1005.3.2 | TOTAL EGRESS WIDTH REQUIRED FOR EGRESS COMPONENTS | 1010.1.1 SIZE OF DOOR | TOTAL DOOR WIDTH PROVIDED |
|---|---|---|---|---|
| 86 | 0.15 | 15.5 INCHES | 32" CLEAR MINIMUM | 96" |

NOTE: MINIMUM CORRIDOR WIDTH TO BE 44 INCHES PER CBC TABLE 1020.2

### EXIT ACCESS TRAVEL DISTANCE (CHAPTER 10 )

| OCCUPANCY GROUP | MAXIMUM TRAVEL DISTANCE TO EXITS (1017.2 SPRINKLERED BUILDING) |
|---|---|
| B | 300 FEET MAX. |
| F-1 | 250 FEET MAX. |

### COMMON PATH DISTANCE (CHAPTER 10)

| OCCUPANCY GROUP | COMMON PATH OF EAGRESS (1006.2.1 SPRINKLERED BUILDING) |
|---|---|
| B | 100 FEET MAX. |
| F-1 | 100 FEET MAX. |

### CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.1)

| CORRIDOR FIRE-RESISTANCE RATING | | |
|---|---|---|
| OCCUPANCY | OCCUPANT LOAD SERVED BY CORRIDOR | FULLY SPRINKLERED SYSTEM |
| B / F | >30 | 0 HR |

### EXTERIOR WALL FIRE RESISTANCE RATING REQUIREMENT (TABLE 602)

| CONSTRUCTION TYPE | TYPE VB / F-1 / B / S-1 | |
|---|---|---|
| EXTERIOR WALLS | 2 HR (EXISTING MASONRY) | X < 5 : NORTH & EASET SIDE OF BUILDING |
| | 0 HR | X > 30 : WEST & SOUTH SIDE OF BUILDING |

### ALLOWABLE EXTERIOR OPENINGS (TABLE 705.8)

| EXTERIOR OPENINGS / SPRINKLERED BUILDING | |
|---|---|
| ALLOWABLE % OF PROTECTED/UNPROTECTED EXTERIOR OPENINGS | BUILDING SEPARATION DISTANCE |
| NOT PERMITTED | < 3' |
| 15% | 3' TO 5' |
| 25% | 5' TO 10' |
| 45% | 10' TO 15' |
| 75% | 15' TO 20' |
| NO LIMIT | 20' TO 25' |
| NO LIMIT | 25' TO 30' |
| NO LIMIT | <30' |

### ALLOWABLE AREA (SECTION 506)

| FLOORS | OCCUPANCIES | (TABLE 506.2) TABULAR BUILDING ALLOWABLE AREA (SF) SM | PROPOSED AREA | RATIO( (PROPOSED/AA) |
|---|---|---|---|---|
| FLOOR 1 | F1 | 25,500 | 13,400 | 0.52 |
| | B | 27,000 | 950 | 0.03 |
| | | SUM OF RATIOS PER FLOOR (<1) | | 0.55 |
| FLOOR 2 | F1 | 25,500 | 9,900 | 0.38 |
| | B | 27,000 | 1,000 | 0.03 |
| | | SUM OF RATIOS PER FLOOR (<1) | | 0.41 |

BUILDING ALLOWABLE AREA WITHOUT AREA INCREASE

### TYPE OF CONSTRUCTION/ FIRE RATING REQUIREMENTS (SECTION 601)

| (TABLE 601) | |
|---|---|
| CONSTRUCTION TYPE | TYPE VB |
| BUILDING ELEMENTS | FIRE RESISTANCE |
| STRUCTURAL FRAME | 0 HR. |
| BEARING WALLS - EXTERIOR | 0 HR. |
| BEARING WALLS - INTERIOR | 0 HR. |
| NON-BEARING WALLS / PARTITIONS / INTERIOR | 0 HR. |
| FLOORS CONSTRUCTION | 0 HR. |
| ROOF CONSTRUCTION | 0 HR. |

### USE & OCCUPANCY CLASSIFICATION (CHAPTER 3)

| OCCUPANCY | SECTION | USE |
|---|---|---|
| **B** | **(304)** | **BUSINESS (OFFICE SUPPORTING AREA)** |
| **F-1** | **(306)** | **COMMERCIAL CULTIVATION & MANUFACTURING** |

### SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS TYPES OF CONSTRUCTION (SECTION 602)

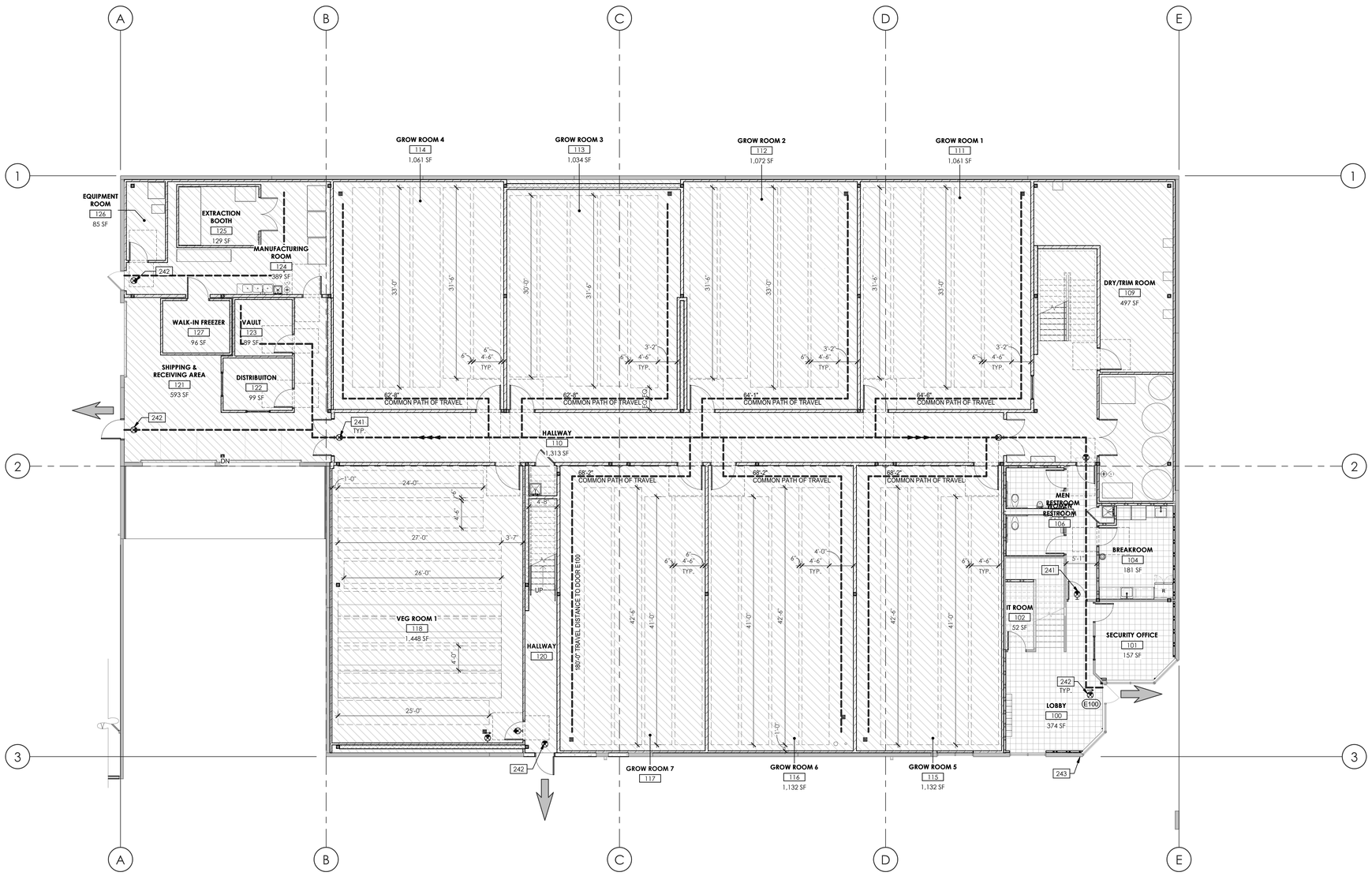
| TYPE VB (EXISTING) | SECTION 602.5 | SPRINKLERED |
|---|---|---|

### ALLOWABLE HEIGHT (SECTION 504)

| TYPE VB | TABLE 504.3 | |
|---|---|---|
| OCCUPANCY GROUP | ALLOWABLE HEIGHT - SPRINKLERED | EXISTING BUILDING HEIGHT |
| B, F-1 | 60 FEET | ± 20'-0" FEET |

### ALLOWABLE NO. OF STORIES (SECTION 504)

| TYPE VB | TABLE 504.4 | |
|---|---|---|
| OCCUPANCY GROUP | ALLOWABLE NO. OF STORIES - SPRINKLERED | PROPOSED EXISTING BUILDING STORIES |
| B | THREE STORIES | TWO STORIES |
| F-1 | TWO STORIES | TWO STORIES |




## OCCUPANCY AND EGRESS PLAN - FIRST FLOOR

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

1

TOTAL CULTIVATION AREA OCCUPANCY LOAD: 103

## FLOOR NOTES 200

241 WALL-MOUNTED TACTILE "EXIT ROUTE" SIGN, REFER TO DETAIL 19/A0-3.
242 SURFACE-MOUNTED TACTILE "EXIT" SIGN, REFER TO DETAIL 18/A0-3.
243 KNOX BOX FOR BUILDING ENTRANCE. LOCATION TO BE COORDINATED WITH FIRE DEPARTMENT.

## LEGEND

INDICATES AREA OF OCCUPANCY CLASSIFICATION B

INDICATES AREA OF OCCUPANCY CLASSIFICATION F-1

## OCCUPANCY & EXIT LEGEND

REQUIRED EXIT.

DIRECTION OF TRAVEL.

PATH OF TRAVEL.

FE — (N) WALL MOUNTED POTTER ROEMER FIRE EXTINGUISHER 2A:10B:C

FEC — (N) SEMI RECESSED FIRE EXTINGUISHER CABINET - POTTER ROEMER, ALTA 7008-A, WHITE WITH POTTER ROEMER FIRE EXTINGUISHER 2A:10B:C. REFER TO DETAIL 1/A9-0

CEILING-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.

WALL-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.

NOTE: ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.

## RESTROOM SUMMARY

CPC SECTION 422 TABLE 422.1:

OFFICE (B): 1,950 S.F. / 200 = 9.75
AGRICULTURE/ (F-1): 23,300 S.F. / 2,000 = 11.65

TOTAL 21.4

11 MEN
11 WOMEN

TOTAL REQUIRED:
BASED ON MOST RESTRICTIVE - B OCCUPANCY

| | | | | | |
|---|---|---|---|---|---|
| MEN: | TOILET: | 1 | LAVATORIES: | 1 | |
| WOMEN: | TOILET: | 1 | LAVATORIES: | 1 | |
| DRINKING FOUNTAIN: | | 1 | URUNALS: | 1 | |
| SERVICE SINK: | | 1 | | | |

TOTAL PROVIDED:

| | | | | | |
|---|---|---|---|---|---|
| MEN: | TOILET: | 2 | LAVATORIES: | 2 | |
| WOMEN: | TOILET: | 2 | LAVATORIES: | 2 | |
| DRINKING FOUNTAIN: | | 0 | URUNALS: | 2 | |
| SERVICE SINK: | | 1 | | | |

WATER COOLER PROVIDED AT BREAKROOM

## OCCUPANCY LOAD CALCULATION

| ROOM NAME | NO. | AREA (SF) | LOAD FACTOR PER TABLE 1004.5 | OCCUPANCY LOAD |
|---|---|---|---|---|
| FIRST FLOOR | | | | |
| LOBBY | 100 | 374 SF | 150 | 3 |
| SECURITY OFFICE | 101 | 157 SF | 150 | 1 |
| IT ROOM | 102 | 52 SF | 150 | 1 |
| BREAKROOM | 104 | 181 SF | 150 | 2 |
| HOUSEKEEPING | 105 | 7 SF | 150 | 0 |
| FERTIGATION TANK ROOM | 108 | 257 SF | 300 | 1 |
| DRY/TRIM ROOM | 109 | 497 SF | 300 | 2 |
| GROW ROOM 1 | 111 | 1061 SF | 300 | 4 |
| GROW ROOM 2 | 112 | 1072 SF | 300 | 4 |
| GROW ROOM 3 | 113 | 1034 SF | 300 | 4 |
| GROW ROOM 4 | 114 | 1061 SF | 300 | 4 |
| GROW ROOM 5 | 115 | 1132 SF | 300 | 4 |
| GROW ROOM 6 | 116 | 1132 SF | 300 | 4 |
| GROW ROOM 7 | 117 | 1132 SF | 300 | 4 |
| VEG ROOM 1 | 118 | 1448 SF | 300 | 5 |
| SHIPPING & RECEIVING AREA | 121 | 593 SF | 300 | 2 |
| DISTRIBUITON | 122 | 99 SF | 150 | 1 |
| VAULT | 123 | 89 SF | 150 | 1 |
| MANUFACTURING ROOM | 124 | 389 SF | 300 | 2 |
| EXTRACTION BOOTH | 125 | 129 SF | 300 | 1 |
| EQUIPMENT ROOM | 126 | 85 SF | 300 | 1 |
| WALK-IN FREEZER | 127 | 96 SF | 300 | 1 |
| SECOND FLOOR | | | | |
| HALLWAY | 200 | 420 SF | 150 | 3 |
| OFFICE | 201 | 189 SF | 150 | 2 |
| OFFICE | 202 | 129 SF | 150 | 1 |
| TRIM ROOM | 206 | 505 SF | 300 | 2 |
| DRYING ROOM | 207 | 497 SF | 300 | 2 |
| GROW ROOM 8 | 209 | 1061 SF | 300 | 4 |
| GROW ROOM 9 | 210 | 1082 SF | 300 | 4 |
| GROW ROOM 10 | 211 | 1082 SF | 300 | 4 |
| GROW ROOM 11 | 212 | 1061 SF | 300 | 4 |
| VEG ROOM 2 | 213 | 1648 SF | 300 | 6 |
| CLONE ROOM | 215 | 219 SF | 300 | 1 |
| MOTHER ROOM | 216 | 630 SF | 300 | 2 |
| TOTAL OCCUPANCY LOAD | | | | 86 |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# FRESHMADE GROW

TENANT IMPROVEMENT

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BALDWIN PARK, CA

FIRE LIFE SAFETY - FIRST FLOOR

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

04/15/2021 PROGRESS SET

| | |
|---|---|
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A0-5a

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## FLOOR NOTES 200

## LEGEND

INDICATES AREA OF OCCUPANCY CLASSIFICATION B

INDICATES AREA OF OCCUPANCY CLASSIFICATION F-1

## OCCUPANCY & EXIT LEGEND

REQUIRED EXIT.

DIRECTION OF TRAVEL.

PATH OF TRAVEL.

FE — (N) WALL MOUNTED POTTER ROEMER FIRE EXTINGUISHER 2A:10B:C

FEC — (N) SEMI RECESSED FIRE EXTINGUISHER CABINET - POTTER ROEMER, ALTA 7008-A, WHITE WITH POTTER ROEMER FIRE EXTINGUISHER 2A:10B:C REFER TO DETAIL 1/A9-0

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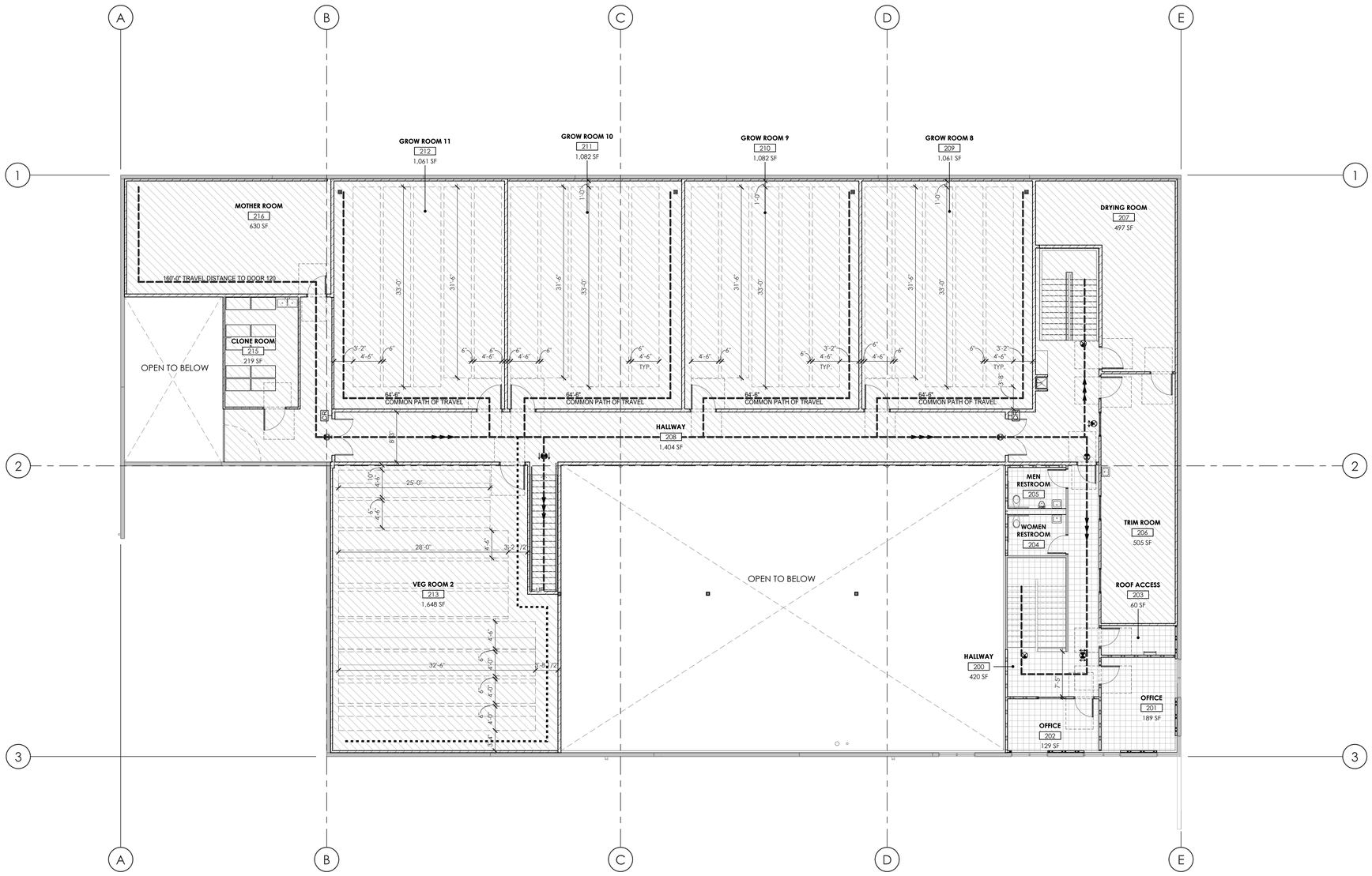
NOTE: ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.




1/8"=1'-0"

0 4' 8' 16' 32'

N

OCCUPANCY AND EGRESS PLAN - SECOND FLOOR | SCALE: 1/8" = 1'-0" | 1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# FRESHMADE GROW

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FIRE LIFE SAFETY - SECOND FLOOR

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| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

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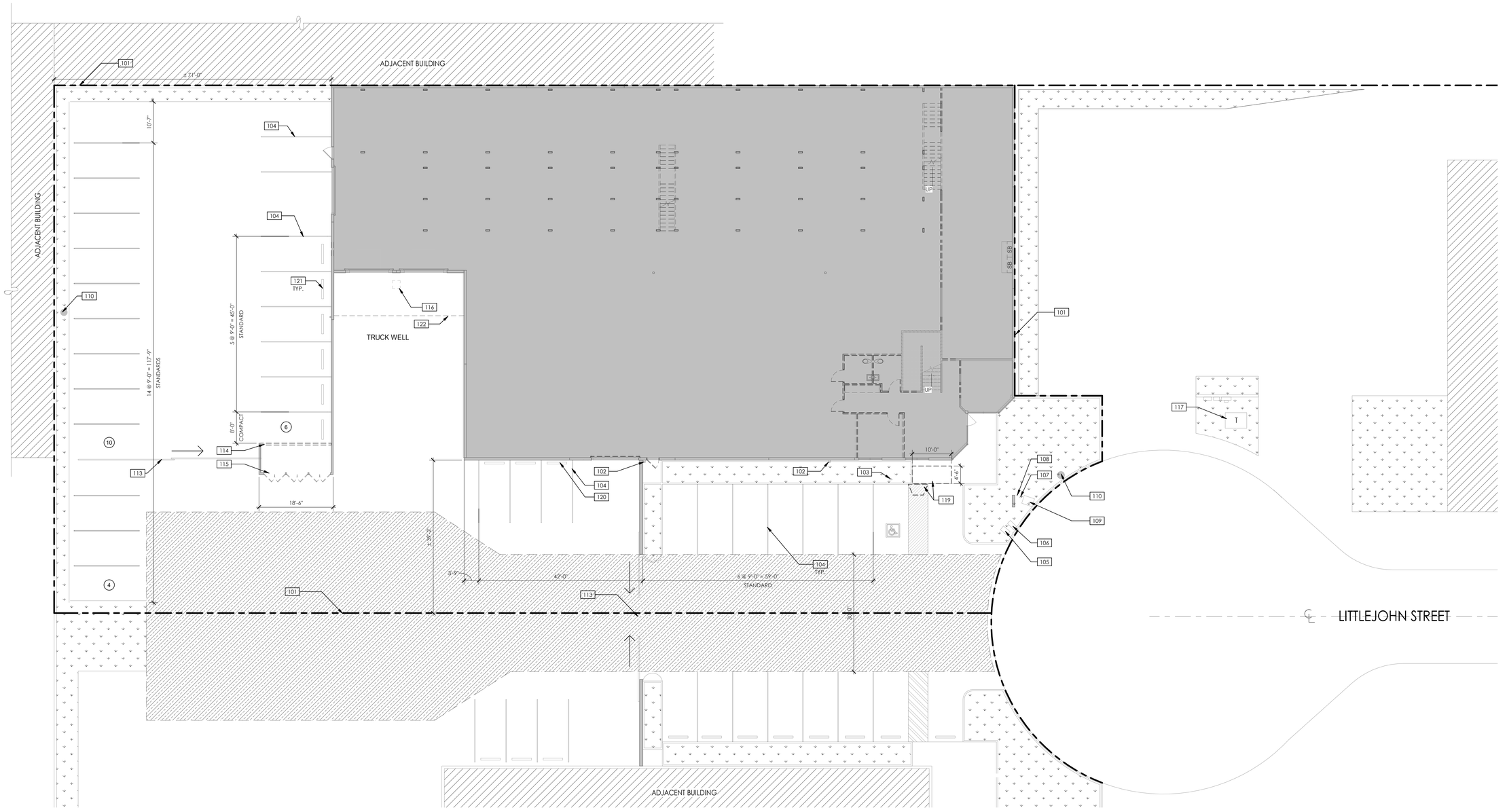



3/32"=1'-0"

0 4 8 16 24 48

N

## DEMOLITION EXISTING SITE PLAN

SCALE: 3/32" = 1'-0" | 1

## SITE NOTES 100

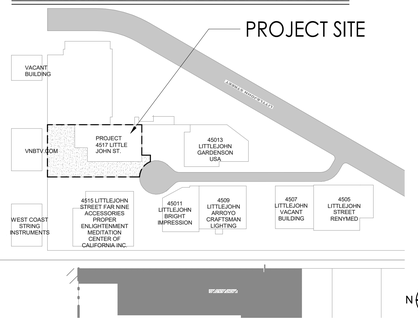
EXISTING:

101 PROPERTY LINE.
102 EXISTING DOWNSPOUT & OVERFLOW SCUPPER.
103 EXISTING ACCESSIBLE PARKING IDENTIFICATION SIGN AT EACH ACCESSIBLE STALL.
104 EXISTING PARKING STALL STRIPPING TO BE REMOVED, SEE SITE PLAN FOR NEW STRIPPING.
105 EXISTING WATER METER & CONNECTION.
106 EXISTING MAILBOX.
107 EXISTING POST INDICATOR VALVE (PIV).
108 EXISTING FIRE DEPARTMENT CONNECTION (FDC).
109 EXISTING SCE VAULT.
110 PARKING LOT LIGHT POLE AND BASE PER ELECTRICAL DRAWINGS.
113 EXISTING 7'-0" HT. WROUGHT IRON FENCE/GATE.
114 EXISTING CONCRETE WALL PANEL TO BE REMOVED AT EXISTING TRASH ENCLOSURE.
115 EXISTING DOOR TO BE REMOVED AT EXISTING TRASH ENCLOSURE.
116 EXISTING SUMP PUMP PER PLUMBING PLANS.
117 EXISTING SCE TRANSFORMER ON CONCRETE PAD. SEE ELECTRICAL DRAWING FOR MORE INFORMATION.
119 EXISTING CONCRETE SIDEWALK & ASPHALT RAMP TO BE REMOVED IN ORDER TO BUILD CURB RAMP PER PROPOSED SITE PLAN.
120 EXISTING WHEEL STOP TO BE REMOVED.
121 EXISTING CONCRETE WHEEL STOP. LOCATION NEED TO BE ADJUSTED PER NEW SITE PLAN.
122 EXISTING ROOF OVERHANG.

## SITE LEGEND

- ACCESSIBLE PATH OF TRAVEL. 1:20 MAX. SLOPE, 2% MAX. CROSS SLOPE.
- PROPERTY LINE.
- LANDSCAPE AND IRRIGATION AREA.
- RECIPROCAL INGRESS/EGRESS FIRE DEPT. ACCESS EASMENT.
- T — TRANSFORMER WITH CONCRETE PAD, (PROVIDE PROTECTION BOLLARDS PER LOCAL UTILITY OR PUBLIC WORK STANDARDS)
- (1) — PARKING STALL COUNT TOTAL
- REQUIRED EXIT

## OVERALL SITE PLAN WITH ADJACENT PROPERTIES

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DEMOLITION SITE PLAN

| DATE | REMARKS |
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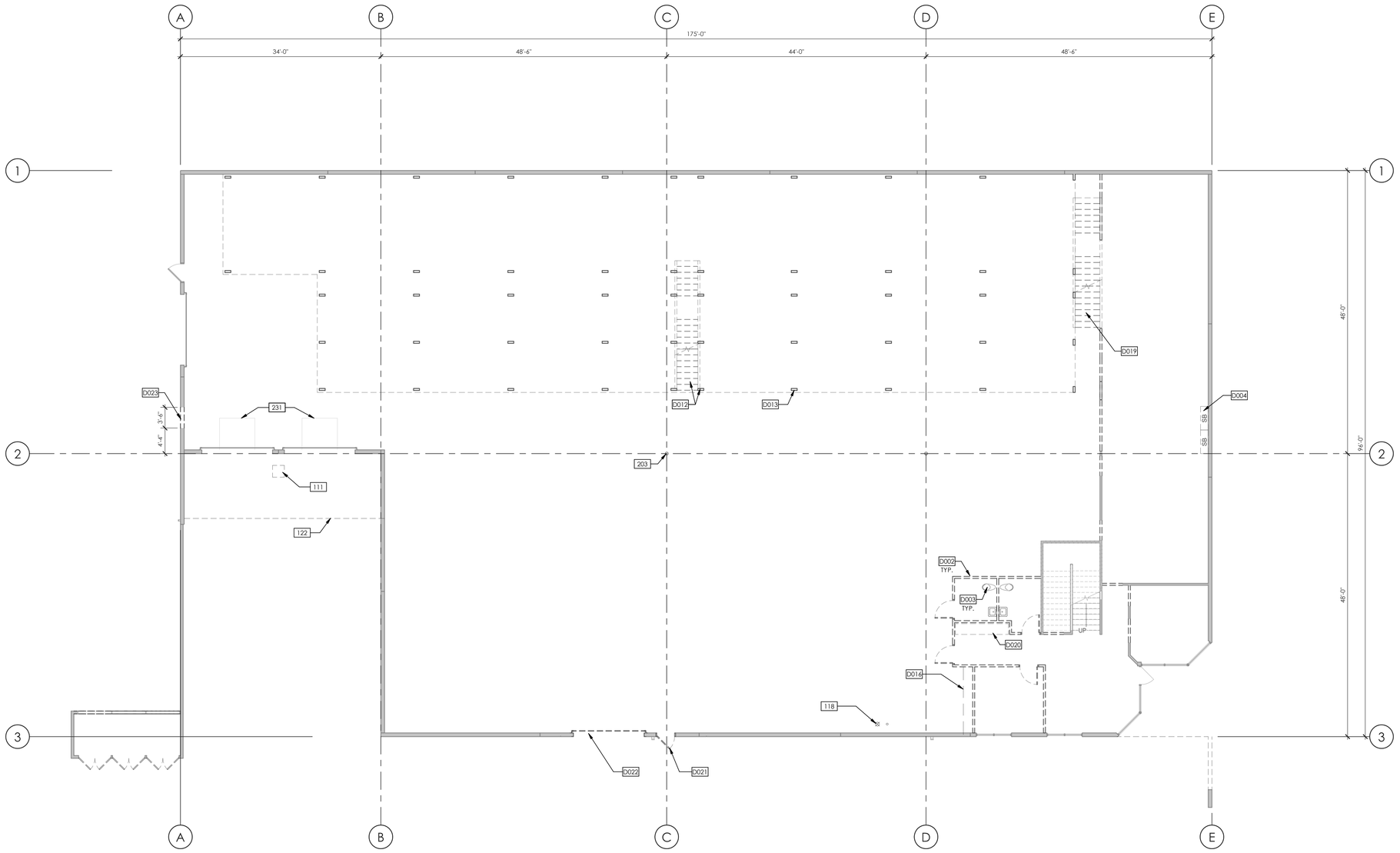
# FLOOR NOTES

| | |
|---|---|
| 111 | EXISTING SUMP PUMP PER PLUMBING PLANS |
| 122 | EXISTING ROOF OVERHANG. |
| 203 | EXISTING STEEL COLUMN TO REMAIN. |
| 231 | EXISTING DOCK LEVELER TO REMAIN. |
| D002 | EXISTING INTERIOR WALL TO BE REMOVED. |
| D003 | EXISTING PLUMBING FIXTURE TO BE REMOVED.SEE PLUMBING DRAWINGS. |
| D004 | EXISTING ELECTRICAL PANEL AND SWITCHGEAR TO BE REMOVED.SEE ELECTRICAL DRAWINGS. |
| D012 | EXISTING MEZZANINE AND STAIR TO BE REMOVED. |
| D013 | EXISTING WOOD COLUMN TO BE REMOVED. CONCRETE SLAB TO BE PATCHED WHERE NEEDED. |
| D019 | EXISTING STEEL STAIR TO BE REMOVED. |
| D020 | EXISTING MILL-WORK TO BE REMOVED. |
| D021 | EXISTING EXTERIOR DOOR & FRAME TO BE REMOVED. INFILL EXTERIOR WALL TO MATCH ADJACENT AREA. SEE FLOOR PLAN FPR MORE INFORMATION. |
| D022 | EXISTING EXTERIOR OVERHEAD DOOR & FRAME TO BE REMOVED. PROVIDE & INSTALL NEW DOOR AND INFILL EXTERIOR WALL TO MATCH ADJACENT AREA. SEE FLOOR PLAN FOR MORE INFORMATION. |
| D023 | EXISTING CONCRETE WALL TO BE SAW-CUT AND REMOVED FOR NEW OPENING. SEE CONSTRUCTION FLOOR PLAN AND STRUCTURAL DRAWING FOR MORE INFORMATION. |




1/8"=1'-0"

0 4' 8' 16' 32'

N

DEMOLITION FIRST FLOOR PLAN — SCALE: 1/8" = 1'-0" — 1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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

DEMOLITION FIRST FLOOR PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

04/15/2021 PROGRESS SET

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -.----.-- |

SHEET

AD2-1

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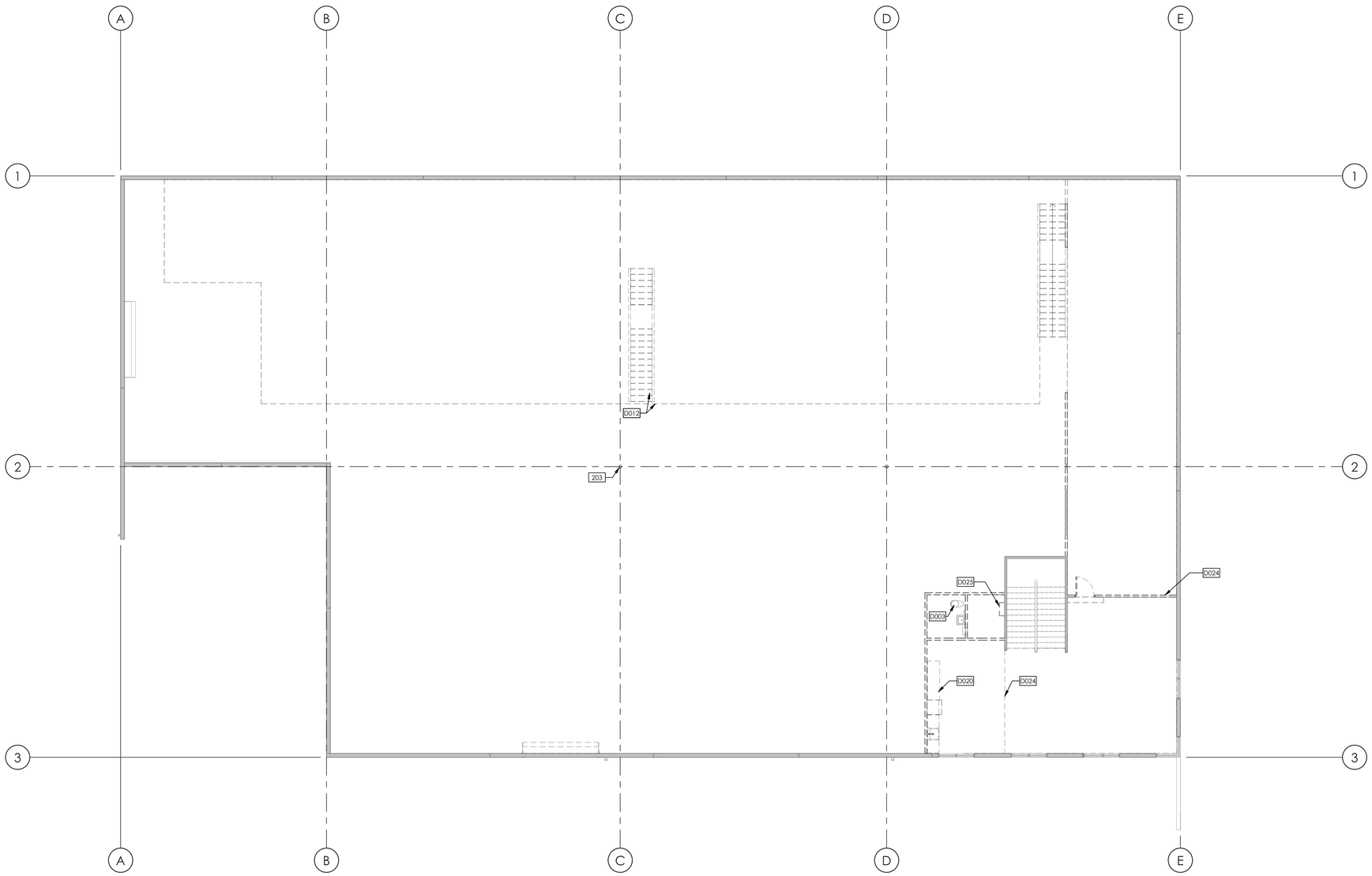
## FLOOR NOTES

203 EXISTING STEEL COLUMN TO REMAIN.
D003 EXISTING PLUMBING FIXTURE TO BE REMOVED.SEE PLUMBING DRAWINGS.
D012 EXISTING MEZZANINE AND STAIR TO BE REMOVED.
D020 EXISTING MILL-WORK TO BE REMOVED.
D024 EXISTING MEZANINE TO BE REMOVED. SEE CONSTRUCTION FLOOR PLAN FOR MORE INFORMATION.
D025 ROOF ACCESS LADDER & ROOF HATCH TO BE REMOVED.




1/8"=1'-0"
0 4' 8' 16' 32'

N

DEMOLITION SECOND FLOOR PLAN | SCALE: 1/8" = 1'-0" | 1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DEMOLITION SECOND FLOOR PLAN

| | DATE | REMARKS |
|---|---|---|
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AD2-2

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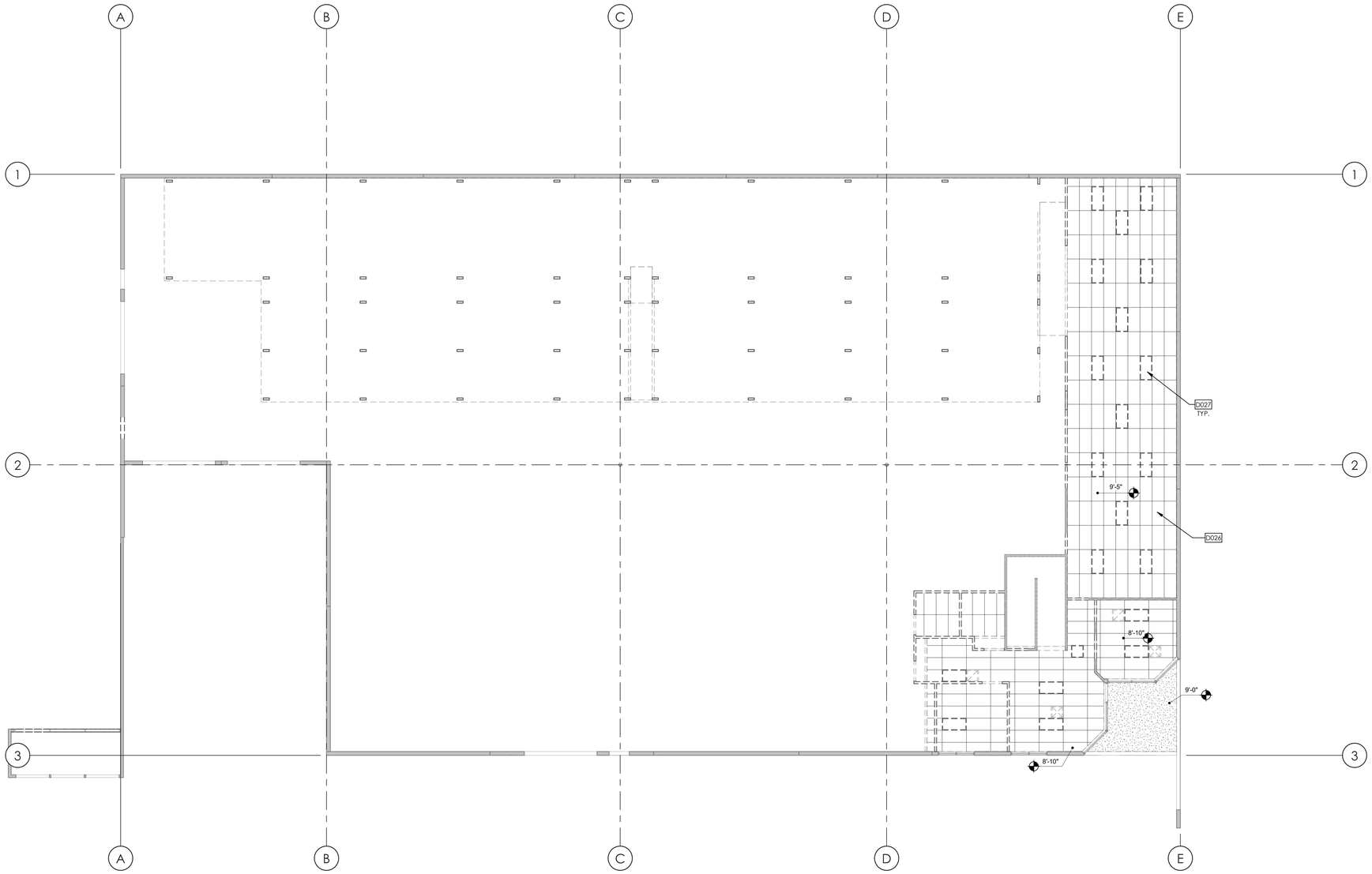


## GENERAL NOTES

REFLECTED CEILING PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2 SEE SHEET A4.1 & 4.2 FOR FINISHES.
3. SEE KEYNOTE INFORMATION FOR ANY REQUIRED INSULATION.
4. PROVIDE SOUND BOOTS AT ALL R/A DIFFUSERS AT ALL OFFICES, TRAINING ROOMS AND CONFERENCE ROOMS.
5 MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT > 7'- 6". (CBC 1003.2)

## CEILING NOTES 300

D026 EXISTING T-BAR CEILING TO BE REMOVED.
D027 EXISTING LIGHT FIXTURE TO BE REMOVED. SEE REFLECTED CEILING PLAN AND ELECTRICAL PLAN FOR MORE INFORMATION.

## CEILING LEGEND

EXISTING 5/8" GYPSUM BOARD CEILING OR SOFFIT.

EXISTING SUSPENDED CEILING GRID & TILES TO BE REMOVED

EXISTING LIGHT FIXTURE TO BE REMOVED

## LEGEND

1/8"=1'-0"
0 4' 8' 16' 32'

N

DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN | SCALE: 1/8" = 1'-0" | 1

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DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN

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|---|---|---|
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AD3-1

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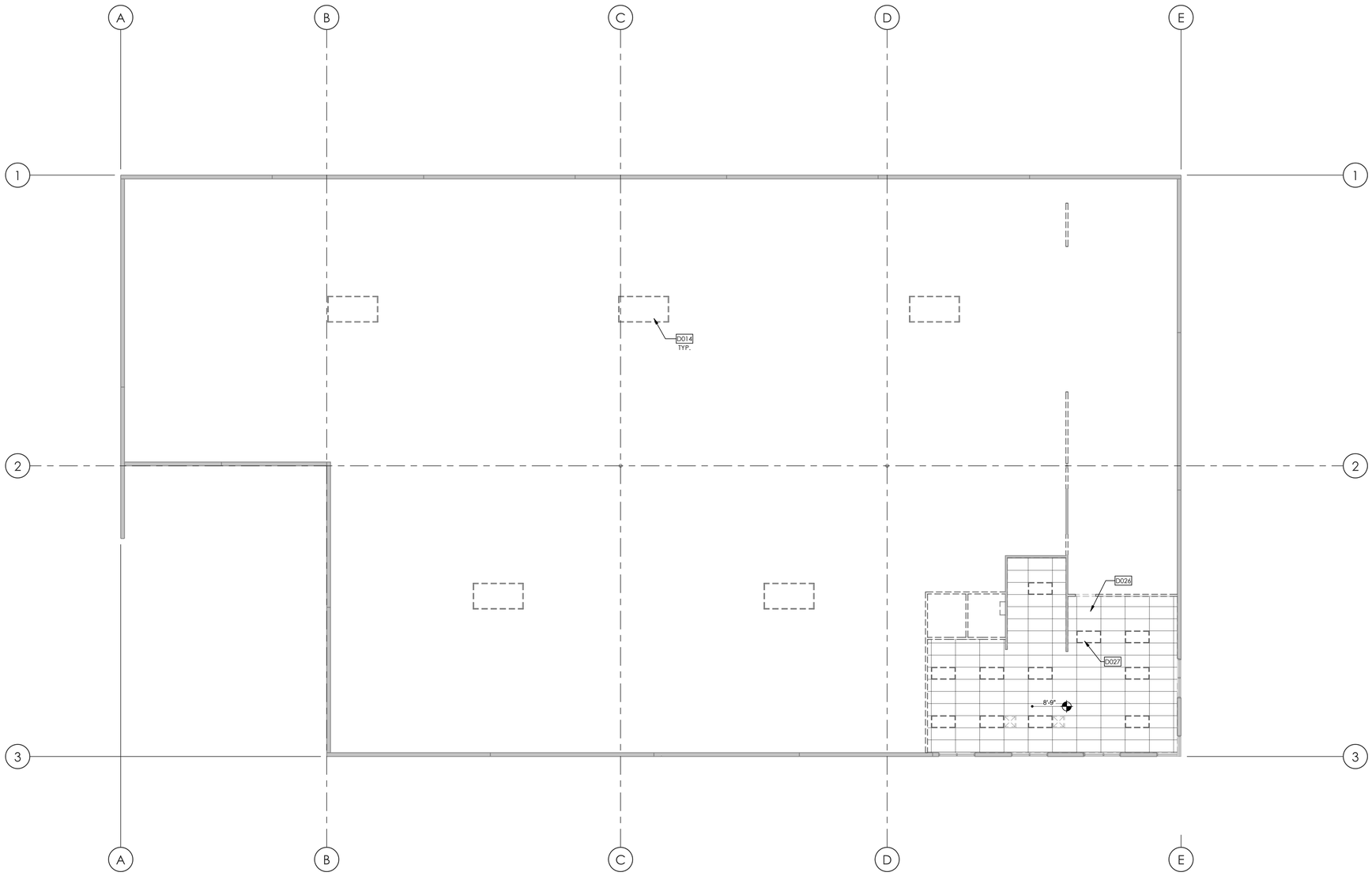


1/8"=1'-0"

0 4' 8' 16' 32'

N

DEMOLITION SECOND FLOOR REFLECTED CEILING PLAN

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

1

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## GENERAL NOTES

REFLECTED CEILING PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2 SEE SHEET A4.1 & 4.2 FOR FINISHES.
3. SEE KEYNOTE INFORMATION FOR ANY REQUIRED INSULATION.
4. PROVIDE SOUND BOOTS AT ALL R/A DIFFUSERS AT ALL OFFICES, TRAINING ROOMS AND CONFERENCE ROOMS.
5 MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT > 7'- 6". (CBC 1003.2)

D014 EXISTING ROOF SKYLIGHT TO BE REMOVED. INFILL OPENING AND PATCH ROOFING; SEE NEW ROOF PLAN AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.

D026 EXISTING T-BAR CEILING TO BE REMOVED.

D027 EXISTING LIGHT FIXTURE TO BE REMOVED. SEE REFLECTED CEILING PLAN AND ELECTRICAL PLAN FOR MORE INFORMATION.

## CEILING NOTES 300

## CEILING LEGEND

EXISTING 5/8" GYPSUM BOARD CEILING OR SOFFIT.

EXISTING SUSPENDED CEILING GRID & TILES TO BE REMOVED

EXISTING LIGHT FIXTURE TO BE REMOVED

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TENANT IMPROVEMENT

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BALDWIN PARK, CA

DEMOLITION SECOND FLOOR REFLECTED CEILING PLAN

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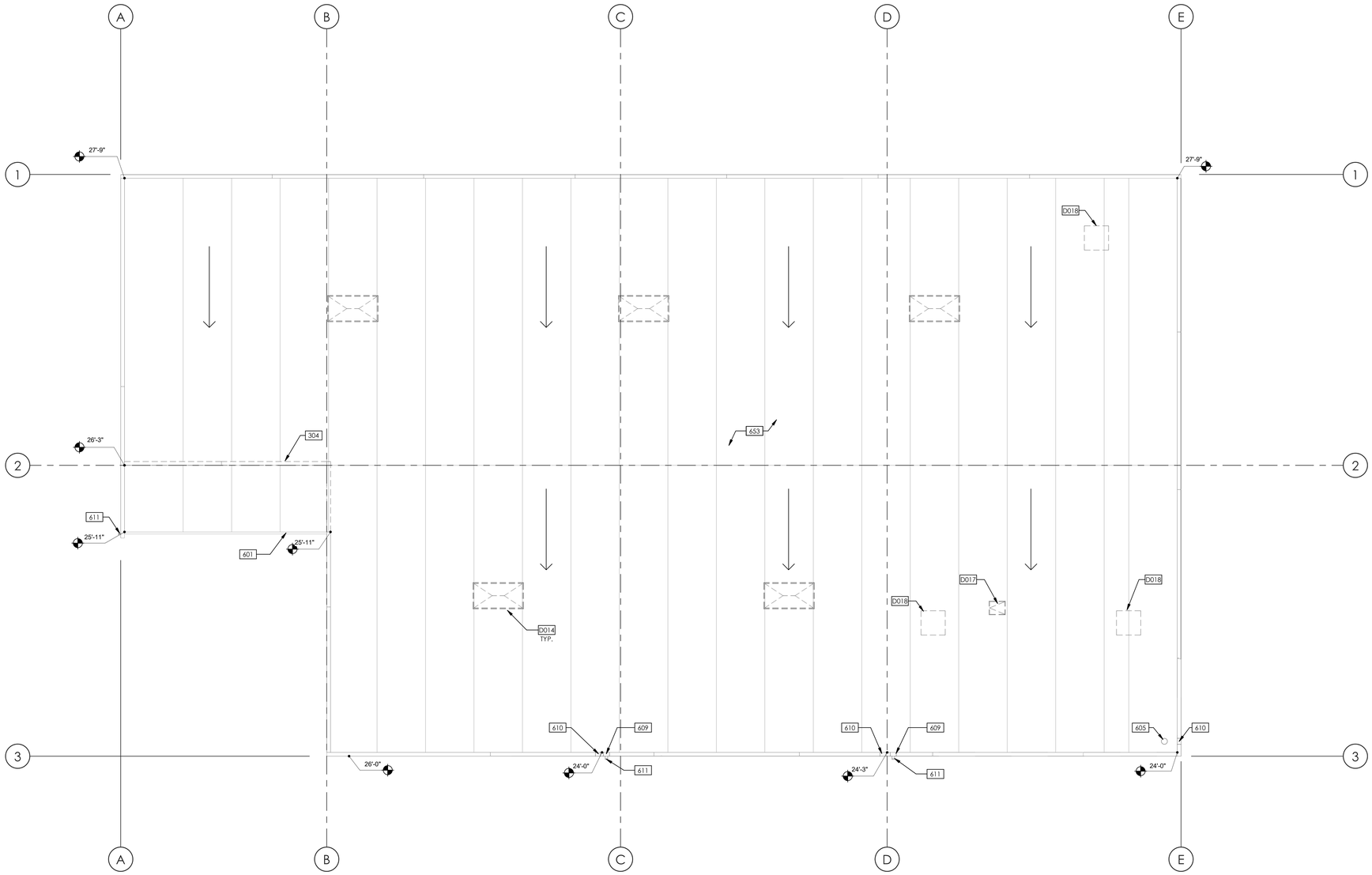
AD3-2




1/8"=1'-0"

0 4' 8' 16' 32'

## ROOF NOTES 600

SEE SHEET A0.2 FOR GENERAL NOTES

304 LINE OF BUILDING BELOW.
601 EXISTING GUTTER. REPAIR WHERE NEEDED.
605 EXISTING ROOF DRAIN.
609 EXISTING ROOF DRAIN SCUPPER.
610 EXISTING OVERFLOW SCUPPER.
611 EXISTING DOWNSPOUT AND OVERFLOW SCUPPER
653 G.C. TO COORDINATE WITH THE OWNER TO PROVIDE AND INSTALL NEW ROOFING.
D014 EXISTING ROOF SKYLIGHT TO BE REMOVED, INFILL OPENING AND PATCH ROOFING; SEE NEW ROOF PLAN AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
D017 EXISTING ROOF ACCESS HATCH. INFILL OPENING AND PATCH ROOFING; SEE NEW ROOF PLAN AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
D018 EXISTING MECHANICAL UNIT AND PLATFORM TO BE REMOVED.SEE PROPOSED ROOF PLAN

DEMO ROOF PLAN | SCALE: 1/8" = 1'-0" | 1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DEMO ROOF PLAN

| # | DATE | REMARKS |
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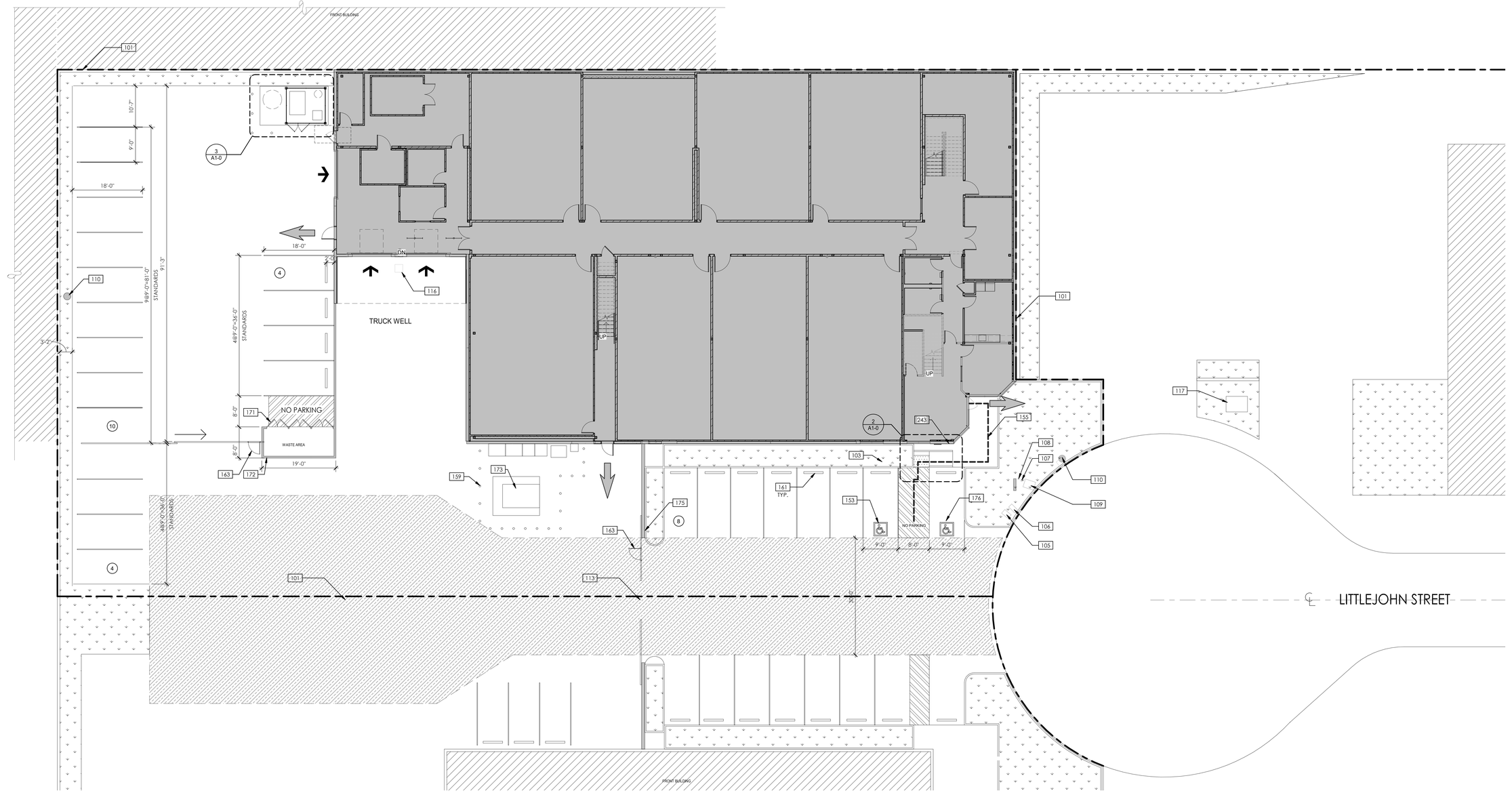
SHEET

AD6-0

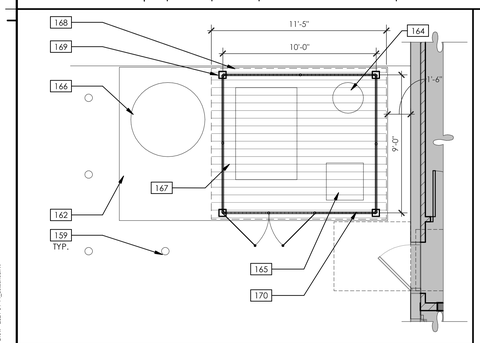



3/32"=1'-0"

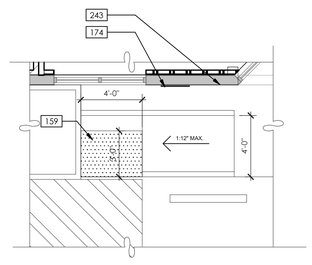
0 4 8 16 24 48

N

SITE PLAN | SCALE: 3/32" = 1'-0" | 1




ENLARGED MECH PAD | SCALE: 1/4" = 1'-0" | 3




CURB RAMP PLAN | SCALE: 1/4" = 1'-0" | 2

## SITE NOTES 100

EXISTING:

101 PROPERTY LINE.
103 EXISTING ACCESSIBLE PARKING IDENTIFICATION SIGN AT EACH ACCESSIBLE STALL.
105 EXISTING WATER METER & CONNECTION.
106 EXISTING MAILBOX.
107 EXISTING POST INDICATOR VALVE (PIV).
108 EXISTING FIRE DEPARTMENT CONNECTION (FDC).
109 EXISTING SCE VAULT.
110 PARKING LOT LIGHT POLE AND BASE PER ELECTRICAL DRAWINGS.
113 EXISTING 7'-0" HT. WROUGHT IRON FENCE/GATE.
116 EXISTING SUMP PUMP PER PLUMBING PLANS.
117 EXISTING SCE TRANSFORMER ON CONCRETE PAD. SEE ELECTRICAL DRAWING FOR MORE INFORMATION.
153 VAN ACCESSIBLE PARKING STALL WITH SIGNAGE. SEE DETAIL 1/A0.3a

NEW:

155 PATH OF TRAVEL. VERIFY SLOPE AT ACCESSIBLE PATH OF TRAVEL; 1:20 MAX. SLOPE, 2% MAX. CROSS SLOPE. NO ABRUPT CHANGES IN ELEVATION ALONG PATH OF TRAVEL SHOWN.
159 INSTALL NEW TRUNCATED DOME. SEE DETAIL 15/A0.3a FOR MORE INFORMATION.
161 PROVIDE & INSTALL CONCRETE WHEEL STOP. SEE DETAIL 8/A0-3a.
162 EQUIPMENT PAD.SIZE TO BE COORDINATED WITH EQUIPMENT. SEE STRUCTURAL DRAWING FOR MORE INFORMATION.
163 EXISITNG GATE TO BE MODIFIED TO ADD NEW ACCESSIBLE MAN GATE WITH PANIC HARDWARE. PROVIDE ADJUSTABLE WIDTH PANIC BAR WITH MORTISE LOCK & STRIKE PLATE (PUSH SIDE) AND LEVER HANDLE ON OUTSIDE (PULL SIDE) OF GATE. INSTALL PER MANUF. RECOMENDATION WITH 3/16" STEEL PANEL SHIELD.
164 COMPRESSOR.
165 SULLAIR DRYER ON CONCRETE PAD.
166 CO2 TANK ON CONCRETE PAD.
167 GENERATOR ON CONCRETE PAD.
168 METAL DECK ROOF. SEE STRUCTURAL DRAWING FOR MORE INFORMATION.
169 NEW 6x6 POST SEE STRUCTURAL DRAWING FOR MORE INFORMATION.
170 NEW 8'-0"HT. WROUGHT IRON FENCE AND 6' WIDE GATE AT EQUIPMENT ENCLOSURE.
171 NEW STEEL GATE/DOOR AT EXISTING TRASH ENCLOSURE.
172 NEW CONCRETE WALL AT EXISTING TRASH ENCLOSURE.
173 NEW TRANSFORMER AND SWITCHGEAR ON CONCRETE CURB PER ELECTRICAL DRAWING.
174 WALL MOUNTED ACCESSIBLE PARKING SIGN.
175 KNOX BOX FOR GATE ACCESS PER FIRE DEPARTMENT REQUIRMENT.
176 ACCESSIBLE PARKING STALL WITH SIGNAGE. SEE DETAIL 1/A0.3a.
243 KNOX BOX FOR BUILDING ENTRANCE. LOCATION TO BE COORDINATED WITH FIRE DEPARTMENT.

## SITE LEGEND

- ACCESSIBLE PATH OF TRAVEL. 1:20 MAX. SLOPE, 2% MAX. CROSS SLOPE.
- PROPERTY LINE.
- LANDSCAPE AND IRRIGATION AREA.
- RECIPROCAL INGRESS/EGRESS FIRE DEPT. ACCESS EASMENT.
- T TRANSFORMER WITH CONCRETE PAD. (PROVIDE PROTECTION BOLLARDS PER LOCAL UTILITY OR PUBLIC WORK STANDARDS)
- 1 PARKING STALL COUNT TOTAL
- REQUIRED EXIT

## PARKING SUMMARY

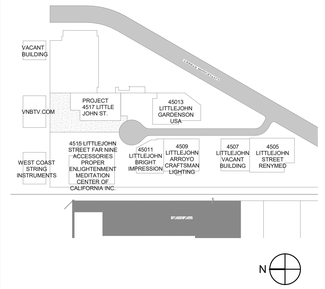
PARKING REQUIRED:
PER BALDWIN PARK ZONING CODE ORDINANCE NO.1443:
1 SPACE/ 1,000 SQUARE FEET OF BUILDING AREA FOR MEDICAL AND ADULT CANNABIS CULTIVATION, MANUFACTURING AND DISTRIBUTION.

| | | |
|---|---|---|
| FIRST FLOOR | 14,350 | SF |
| SECOND FLOOR | 10,900 | SF |
| TOTAL | 25,250 | SF /1000 = 25.25 = 26 STALLS |

PARKING STALLS PROVIDED:

| | |
|---|---|
| STANDARD PARKING STALL | 24 STALLS |
| STANDARD/VAN ACCESSIBLE | 2 STALLS |
| TOTAL | 26 STALLS |

## OVERALL SITE PLAN WITH ADJACENT PROPERTIES

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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SITE PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

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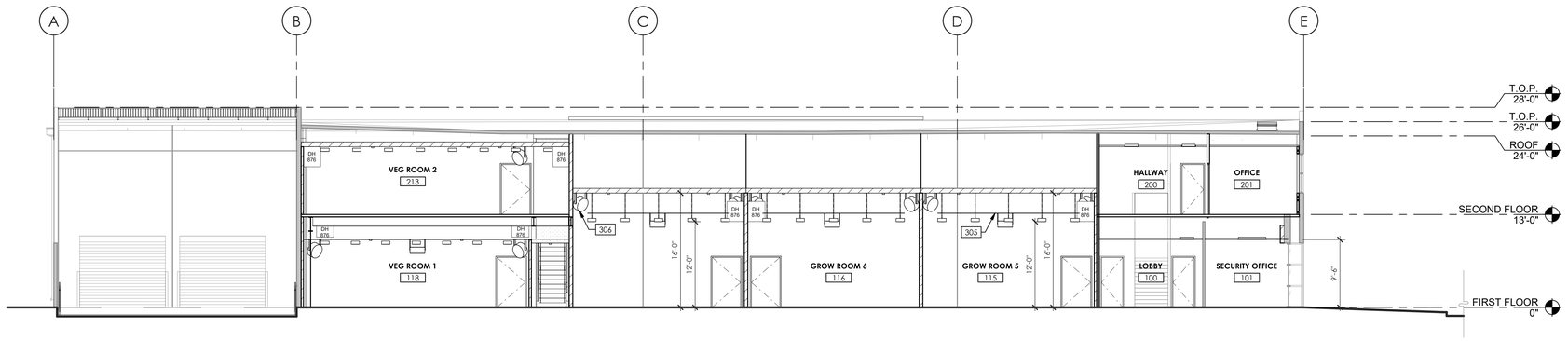
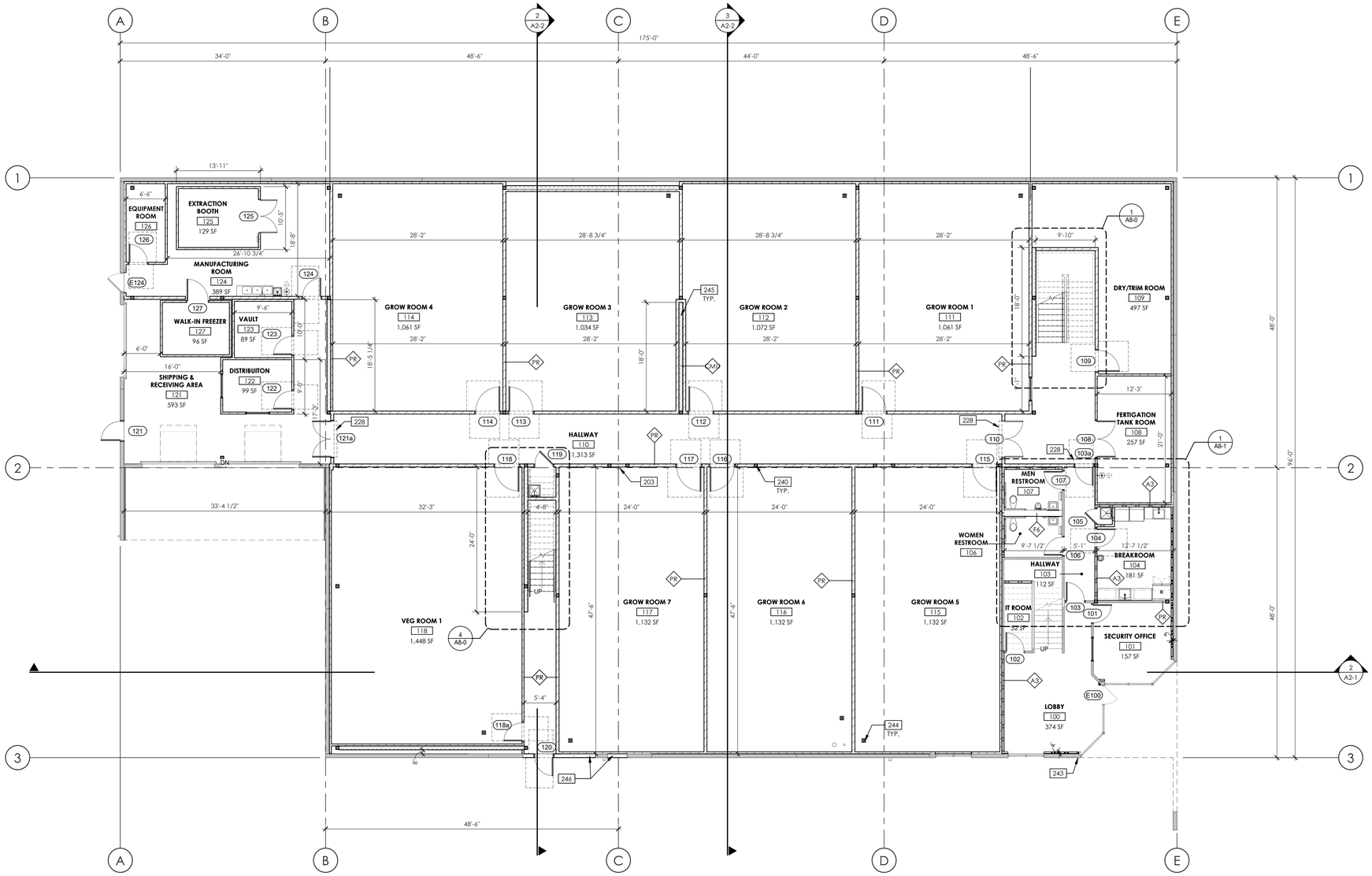



## BUILDING SECTION

SCALE: 1/8" = 1'-0" | 2




## FIRST FLOOR PLAN

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

1/8"=1'-0"
0 4' 8' 16' 32'

N

# GENERAL NOTES

FLOOR PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2. ALL WALL STUDS TO BE 3-5/8", U.O.N.
3. FOR METAL STUD SIZES AND SPACING SEE STRUCTURAL DRAWING
4. ALL RESTROOM WALL STUDS TO BE 6" AND FULLY INSULATED, U.O.N.
5. SEE KEYNOTE INFORMATION FOR ANY REQUIRED INSULATION.
6. CONTRACTOR SHALL PROVIDE RECORD DOCUMENTS AND PROVIDE SAID DOCUMENTATION TO TENANT CONSTRUCTION COORDINATOR OR ARCHITECT AS PART OF CONTRACTOR CLOSE-OUT.
7. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS (IF ANY) AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. CONTRACTOR TO INCLUDE ALL FLOOR PREPARATIONS IN BASE BID.
9. ALL DRYWALL CORNERS AND COLUMN EDGES TO BE FINISHED WITH CORNER "L" BEAD.
10. INTERIOR GYPSUM BOARD WALL SHALL CONFORM TO ICC REPORT ESR-1338
11. CONTRACTOR TO PROVIDE BLOCKING FOR SHELVING AND CABINETS.
12. G.C. TO VERIFY EXISTING DOOR HARDWARE FOR FUNCTIONALITY & ACCESS COMPLIANCE; REPLACE WITH NEW IF NEEDED

# FLOOR NOTES 200

203 EXISTING STEEL COLUMN TO REMAIN.
228 AIR-CURTAIN; SEE MECHANICAL DRAWING FOR MORE INFORMATION.
240 NEW STEEL COLUMN. SEE STRUCTURAL DRAWINGS.
243 KNOX BOX FOR BUILDING ENTRANCE. LOCATION TO BE COORDINATED WITH FIRE DEPARTMENT.
244 NEW FLOOR SINK/DRAIN. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
245 NEW CMU WALL. SEE STRUCTURAL DRAWING.
246 CMU WALL INFILL AT EXISTING OPENING WITH PLASTER FINISH AT EXTERIOR MATCH WITH ADJACENT EXISTING EXTERIOR CONCRETE WALL. PAINT TO MATCH. SEE STRUCTURAL DRAWINGS.
305 UNISTRUT SUSPENDED FROM STRUCTURE ABOVE FOR MOUNTING GROW LIGHTS.
306 FAN MOUNTED TO THE CEILING; SEE REFLECTED CEILING PLAN FOR MORE INFORMATION.

# WALL LEGEND

- EXISTING EXTERIOR CONCRETE WALL WITH FURRING
- EXISTING CONCRETE WALL
- FULL HEIGHT NON-RATED PARTITION TO STRUCTURE
- PARTITION TO 6" ABOVE CEILING
- PRE-FAB INSULATED WALL PANEL BY OTHERS (DEFERRED SUBMITTAL)

# WALL TYPES

* ALL WALLS TO BE OF TYPE < **A3** > U.O.N.
* SEE SHEET **A10-0** FOR WALL TYPES

| WALL TAG | WALL DESCRIPTION |
|---|---|
| A3 | 1 LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OVER 3-5/8" METAL STUD, NON-RATED PARTITION MIN. 6" ABOVE CEILING. |
| F6 | 1 LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OVER 2X4 WOOD STUD, NON-RATED FULL HEIGHT PARTITION. |
| PR | MODULAR INSULATED PREFAB WALL PANELS BY OTHERS. |
| U2 | 1 LAYER OF 5/8" GYPSUM BOARD ON ONE SIDE OVER 2 1/2" METAL STUD WITH R-13 FIBERGLASS INSULATION, NON-RATED FURRING PARTITION TO 6" ABOVE CEILING. SEE DETAIL U/A10.1 |

# LEGEND

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FIRST FLOOR PLAN

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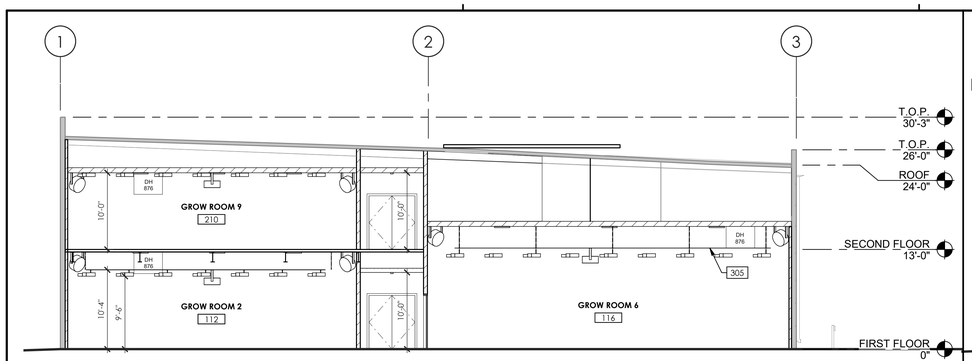
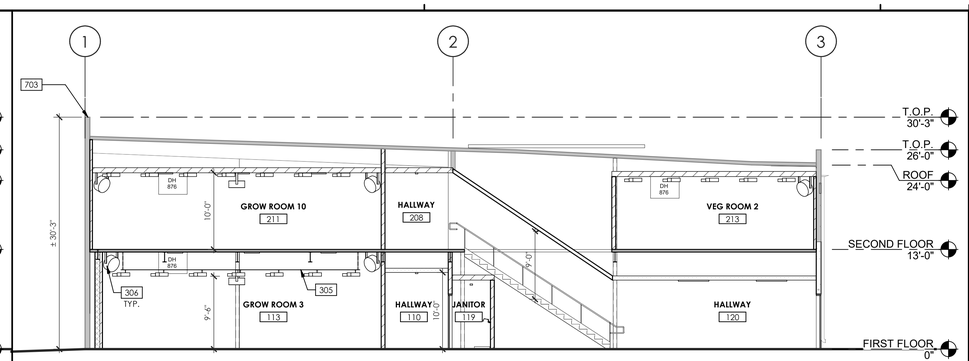
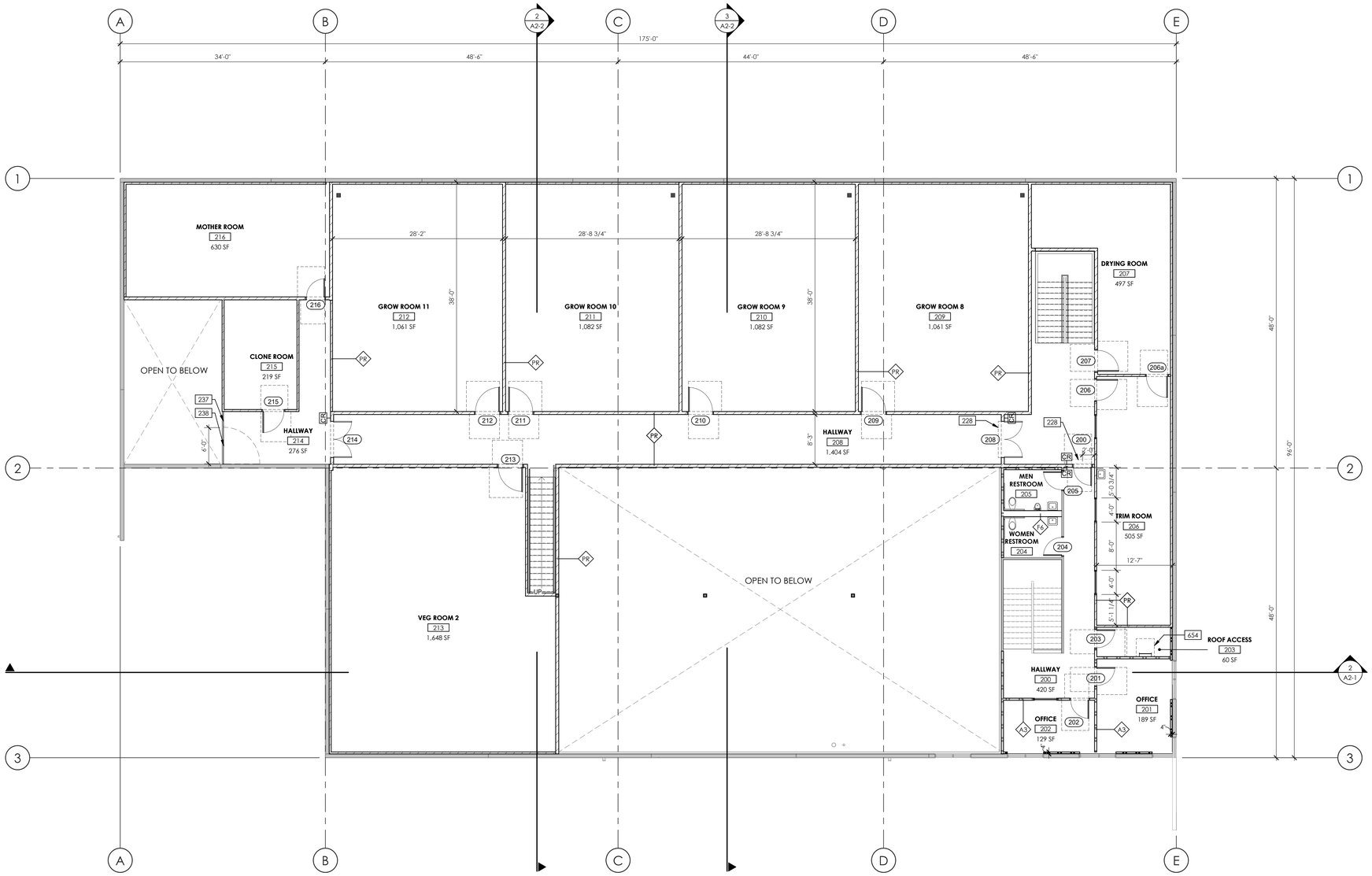



BUILDING SECTION | SCALE: 1/8" = 1'-0" | 3




BUILDING SECTION | SCALE: 1/8" = 1'-0" | 2




SECOND FLOOR PLAN | SCALE: 1/8" = 1'-0" | 1

1/8"=1'-0"
0 4' 8' 16' 32'

N

## GENERAL NOTES

FLOOR PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2. ALL WALL STUDS TO BE 3-5/8", U.O.N.
3. FOR METAL STUD SIZES AND SPACING SEE STRUCTURAL DRAWING
4. ALL RESTROOM WALL STUDS TO BE 6" AND FULLY INSULATED, U.O.N.
5. SEE KEYNOTE INFORMATION FOR ANY REQUIRED INSULATION.
6. CONTRACTOR SHALL PROVIDE RECORD DOCUMENTS AND PROVIDE SAID DOCUMENTATION TO TENANT CONSTRUCTION COORDINATOR OR ARCHITECT AS PART OF CONTRACTOR CLOSE-OUT.
7. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS (IF ANY) AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. CONTRACTOR TO INCLUDE ALL FLOOR PREPARATIONS IN BASE BID.
9. ALL DRYWALL CORNERS AND COLUMN EDGES TO BE FINISHED WITH CORNER "L" BEAD.
10. INTERIOR GYPSUM BOARD WALL SHALL CONFORM TO ICC REPORT ESR-1338
11. CONTRACTOR TO PROVIDE BLOCKING FOR SHELVING AND CABINETS.
12. G.C. TO VERIFY EXISTING DOOR HARDWARE FOR FUNCTIONALITY & ACCESS COMPLIANCE; REPLACE WITH NEW IF NEEDED

## FLOOR NOTES 200

228 AIR-CURTAIN; SEE MECHANICAL DRAWING FOR MORE INFORMATION.
237 42" HT. GUARDRAIL.
238 6' WIDE GATE AT GUARDRAIL.
305 UNISTRUT SUSPENDED FROM STRUCTURE ABOVE FOR MOUNTING GROW LIGHTS.
306 FAN MOUNTED TO THE CEILING; SEE REFLECTED CEILING PLAN FOR MORE INFORMATION.
703 EXISTING BUILDING PARAPET.

## WALL LEGEND

U A10-0 — EXISTING EXTERIOR CONCRETE WALL WITH FURRING
EXISTING CONCRETE WALL
F A10-0 — FULL HEIGHT NON-RATED PARTITION TO STRUCTURE
A A10-0 — PARTITION TO 6" ABOVE CEILING
PRE-FAB INSULATED WALL PANEL BY OTHERS (DEFERRED SUBMITTAL)

## WALL TYPES

* ALL WALLS TO BE OF TYPE < **A3** > U.O.N.
* SEE SHEET **A10-0** FOR WALL TYPES

| WALL TAG | WALL DESCRIPTION |
|---|---|
| A3 | 1 LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OVER 3-5/8" METAL STUD, NON-RATED PARTITION MIN. 6" ABOVE CEILING. |
| F6 | 1 LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OVER 2X4 WOOD STUD, NON-RATED FULL HEIGHT PARTITION. |
| PR | MODULAR INSULATED PREFAB WALL PANELS BY OTHERS. |
| U2 | 1 LAYER OF 5/8" GYPSUM BOARD ON ONE SIDE OVER 2 1/2" METAL STUD WITH R-13 FIBERGLASS INSULATION, NON-RATED FURRING PARTITION TO 6" ABOVE CEILING. SEE DETAIL U/A10.1 |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TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SECOND FLOOR PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -----.-- |

SHEET
A2-2

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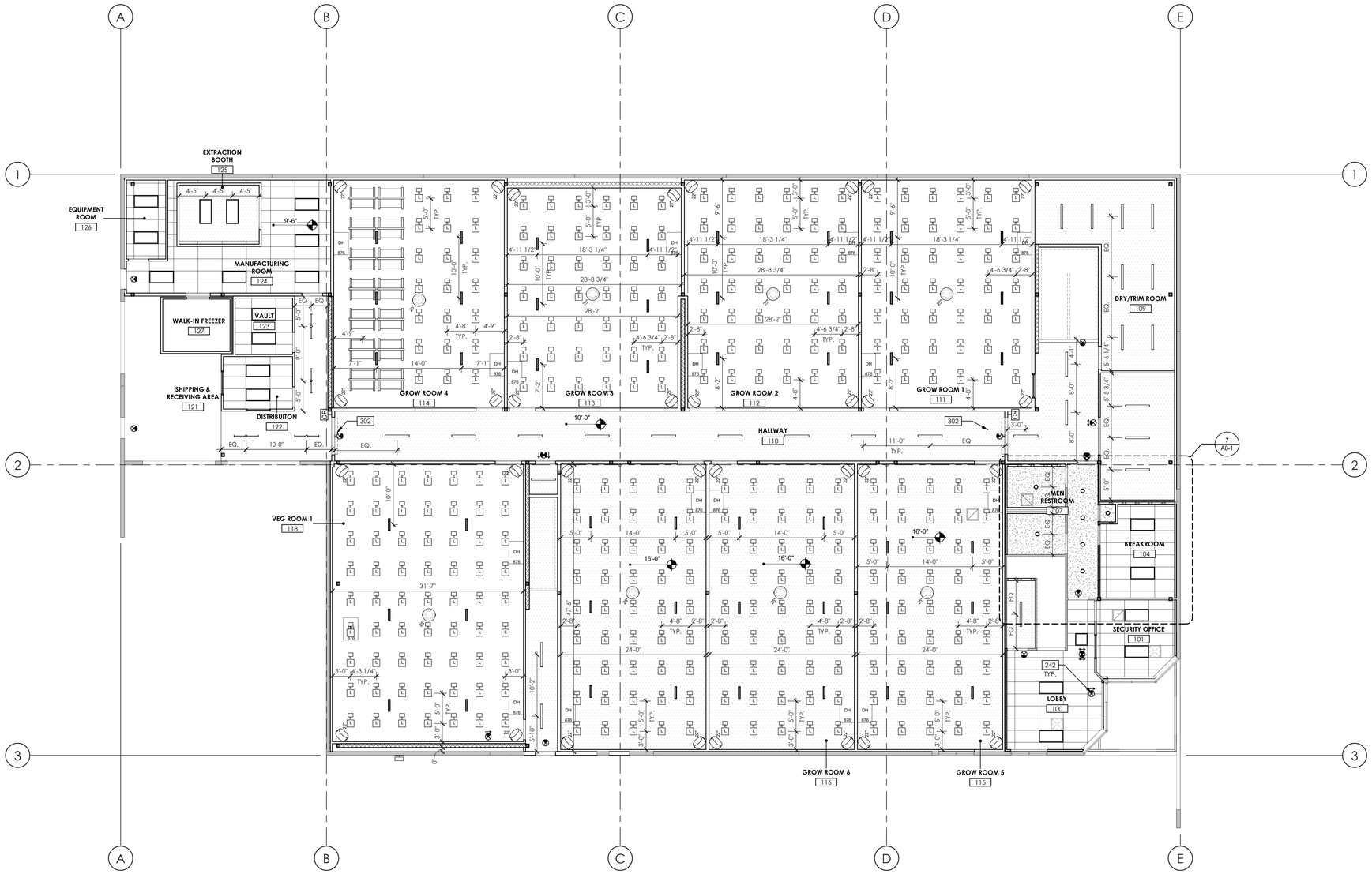


1/8"=1'-0"

0 4' 8' 16' 32'

N

FIRST FLOOR REFLECTED CEILING PLAN

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

# GENERAL NOTES

## REFLECTED CEILING PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2 SEE SHEET A4.1 & 4.2 FOR FINISHES.
3. SEE KEYNOTE INFORMATION FOR ANY REQUIRED INSULATION.
4. PROVIDE SOUND BOOTS AT ALL R/A DIFFUSERS AT ALL OFFICES, TRAINING ROOMS AND CONFERENCE ROOMS.
5 MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT > 7'- 6". (CBC 1003.2)

# CEILING NOTES 300

242 SURFACE-MOUNTED TACTILE "EXIT" SIGN. REFER TO DETAIL 18/A0-3.
302 AIR-CURTAIN: SEE MECHANICAL DRAWING FOR MORE INFORMATION.

# CEILING LEGEND

NEW 5/8" GYPSUM BOARD CEILING OR SOFFIT - USE RATED MATERIAL & CONSTRUCTION WHERE REQUIRED.
NOTE: PROVIDE R-30 BATT INSULATION ABOVE NEW CEILING OF EACH CONDITIONED AREA. SEE DETAILS

SEE DETAILS 11 A10-1 THRU 14 A10-1

NEW PRE-FAB INSULATED CEILING PANELS.

NEW SUSPENDED CEILING GRID & TILES ARMSTRONG/USG 2' X 2' DUNE SQUARE LAY-IN W/ 15/16" GRID, WHITE (OR APPROVED EQUAL)

SEE DETAILS 2 A10-1 THRU 10 A10-1

2'x2' LED LIGHT FIXTURE.

2'x4' LED LIGHT FIXTURE.

4' LENSED LED LIGHT FIXTURE - SURFACE MOUNTED

2' ENCLOSED GREEN LED LIGHT FIXTURE - SURFACE MOUNTED

4' LENSED LED LIGHT FIXTURE - PENDANT

RECESSED DOWNLIGHT.

EXHAUST AIR GRILL.

SUPPLY AIR GRILL.

RETURN AIR GRILL.

CEILING-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.

WALL-MOUNTED EXIT SIGN WITH BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED.

NOTE: ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.

FLOWER ROOM LIGHT FIXTURE
MANUF.: LUXX LIGHTING
PRODUCT: 1000W HPS 208-277V
VERSION: LUX-DE 100-277
INPUT POWER: 1045 WATT
PRODUCT WEIGHT: 16.44 LBS
SIZE: 7.09" L X 9.8" W X 4.1" H

LED LIGHT FIXTURE
MANUF.: LUXX LIGHTING
PRODUCT: LUX-645-277
VERSION: LUX-645W LED PRO 120-277V
INPUT POWER: 645 WATT
PRODUCT WEIGHT: 31 LBS
SIZE: 49" L X 43.30" W X 2.55" H

22" FAN
MANUF.: YM - YOKE MOUNT
PRODUCT: 22 IN. HIGH VELOCITY FAN
INPUT VOLTAGE: 115V
PRODUCT WEIGHT: 57 LB
SIZE: 22" DIA X 16" D

25" FAN
MANUF.: MULTI-FAN
PRODUCT: 25 IN. HIGH VELOCITY FAN
INPUT VOLTAGE: 115V
PRODUCT WEIGHT: 57 LB
SIZE: 25" DIA X 21 1/4" D

DH 506 FLOWER ROOM DEHUMIDIFIER (@TRIM ROOM)
MANUF.: QUEST
PRODUCT: QUEST 506 4036600
VERSION: HIGH-EFFICIENCY DEHUMIDIFIER
INPUT VOLTAGE: 220-240 VAC
INPUT POWER AT: 2700 WATT
PRODUCT WEIGHT: 280 LBS
SIZE: 28.9" W X 33.8" H X 44.7" L

DH 876 FLOWER ROOM DEHUMIDIFIER
MANUF.: QUEST
PRODUCT: QUEST 876 4037600
VERSION: HIGH-EFFICIENCY DEHUMIDIFIER
INPUT VOLTAGE: 220-240 VAC
INPUT POWER AT: 5500 WATT
PRODUCT WEIGHT: 340 LBS
SIZE: 28.9" W X 33.8" H X 44.7" L

DH Santa Fe DEHUMIDIFIER
MANUF.: SANTA FE
MODEL: 4029700
INPUT VOLTAGE: 110-120 V
INPUT POWER AT: 700 WATT
PRODUCT WEIGHT: 110 LBS
SIZE: 20" W X 17" L X 36" H

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TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

FIRST FLOOR REFLECTED CEILING PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

04/15/2021 PROGRESS SET

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -.---.-- |

SHEET

A3-1

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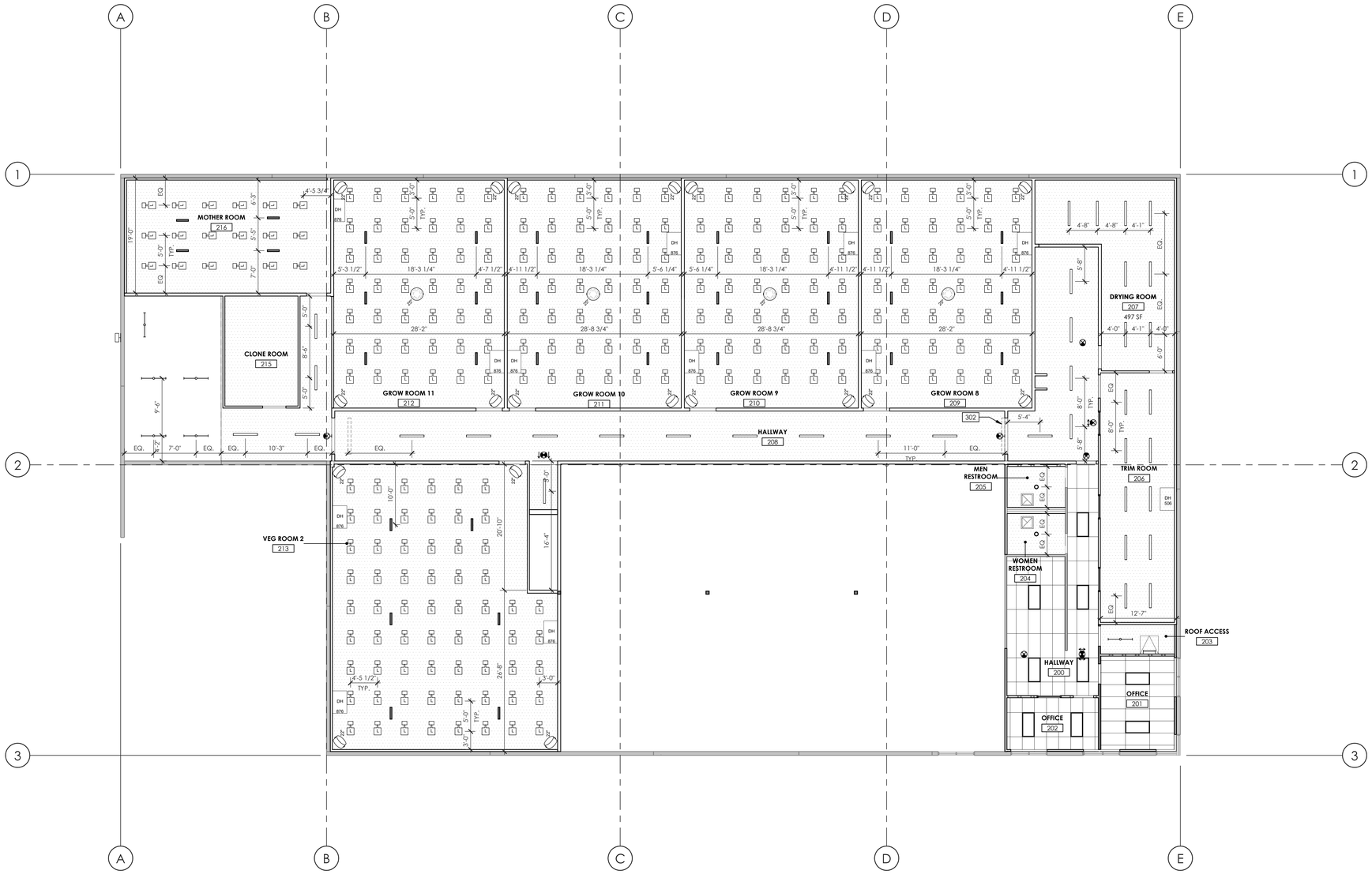


1/8"=1'-0"

0 4' 8' 16' 32'

N

SECOND FLOOR REFLECTED CEILING PLAN

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

1

# GENERAL NOTES

## REFLECTED CEILING PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2 SEE SHEET A4.1 & 4.2 FOR FINISHES.
3. SEE KEYNOTE INFORMATION FOR ANY REQUIRED INSULATION.
4. PROVIDE SOUND BOOTS AT ALL R/A DIFFUSERS AT ALL OFFICES, TRAINING ROOMS AND CONFERENCE ROOMS.
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# CEILING NOTES 300

302 AIR-CURTAIN; SEE MECHANICAL DRAWING FOR MORE INFORMATION.

# CEILING LEGEND

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SEE DETAILS 11/A10-1 THRU 14/A10-1

NEW PRE-FAB INSULATED CEILING PANELS.

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SEE DETAILS 2/A10-1 THRU 10/A10-1

2'x2' LED LIGHT FIXTURE.

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4' LENSED LED LIGHT FIXTURE - SURFACE MOUNTED

2' ENCLOSED GREEN LED LIGHT FIXTURE - SURFACE MOUNTED

4' LENSED LED LIGHT FIXTURE - PENDANT

RECESSED DOWNLIGHT.

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L
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PRODUCT: 22 IN. HIGH VELOCITY FAN
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MANUF.: MULTI-FAN
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DH 506
FLOWER ROOM DEHUMIDIFIER (@TRIM ROOM)
MANUF.: QUEST
PRODUCT: QUEST 506 4036600
VERSION: HIGH-EFFICIENCY DEHUMIDIFIER
INPUT VOLTAGE: 220-240 VAC
INPUT POWER AT: 2700 WATT
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INPUT POWER AT: 700 WATT
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SIZE: 20" W X 17" L X 36" H

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4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SECOND FLOOR REFLECTED CEILING PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

04/15/2021 PROGRESS SET

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|---|---|
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A3-2

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FIRST FINISH PLAN | SCALE: 1/8" = 1'-0" | 1

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# GENERAL NOTES

FINISH PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2. SEE ENLARGED RESTROOM ELEVATIONS FOR WALL FINISHES.
3. SEE MILLWORK ELEVATIONS FOR COUNTERTOP AND CABINETRY FINISHES.
4. PROVIDE APPROPRIATE SEALER FOR ALL NEW FINISHES PER MANUFACTURER'S RECOMMENDATION
5. PROTECT FINISHES FROM MARKS, IDENTATIONS AND OTHER DAMAGE FROM CONSTRUCTION OPERATIONS AND PLACEMENT OF EQUIPMENT AND FIXTURES DURING REMAINDER OF CONSTRUCTION PERIOD. USE PROTECTION METHODS RECOMMENDED IN WRITING BY MANUFACTURER.
6. INSTALLATION LEVELS OF GYPSUM BOARD FINISHING AS FOLLOWS:
   - 6.1 LEVEL 1 FINISH: WHEN ABOVE FINISHED CEILINGS AND CONCEALED FROM VIEW.
   - 6.2 LEVEL 2 FINISH: AS A SUBSTRATE FOR TILE.
   - 6.3 LEVEL 3 FINISH: WHEN SCHEDULED TO RECEIVE A HEAVY OR MEDIUM TEXTURED FINISH.
   - 6.4 LEVEL 4 FINISH: IN OFFICES AND OTHER AREAS THAT RECEIVE LOWER PUBLIC TRAFFIC AND VISIBILITY.
   - 6.5 LEVEL 5 FINISH: FOR ALL WALLS AND CEILINGS TO RECEIVE A PAINTED FINISH, LIGHTLY TEXTURED FINISH.
7. ROOMS TO RECEIVE PAINT (P-1), RUBBER BASE (RB-1) AND CONCRETE (CON-1), U.O.N.
8. PREPARE WALLS TO RECEIVE (2) COATS EGGSHELL PAINT, U.O.N.
9. GYPSUM BOARD SOFFIT/CEILING TO RECEIVE PAINT (P-1)

# FINISHES NOTES 400

401 ADD YELLOW PAINTING STRIPPING AT THE AREA OF FIRE RISER PIPES PER FIRE DEPARTMENT STANDARDS TO PREVENT BLOCKING THE FIRE RISER PIPES & VALVES.

# SYMBOL LEGEND

INDICATES LINE OF FLOOR TRANSITION

INDICATES LOCATION OF NON-TYPICAL WALL FINISH

# FINISHES LEGEND

SEE SHEET A4.2 FOR MISCELLANEOUS FINISHES

## WALL FINISHES

P 1
- ITEM: PAINT - TYPICAL THROUGHOUT, U.O.N.
- MANUF.: DUNN EDWARDS
- COLOR/NO. LIGHTHOUSE DEW385
- FINISH: EGGSHELL

RB 1
- ITEM: RUBBER BASE
- MANUF.: BURKE
- COLOR/NO. THUNDER 727
- SIZE: 4"
- STYLE: COVED @ VCT / CONCRETE FLOORING

CWT 1
- ITEM: CERAMIC WALL TILE
- MANUF.: DALTILE
- COLOR/NO. WHITE / 0190
- SIZE: 3" H x 6" W
- STYLE: RITTENHOUSE SQUARE

## FLOOR FINISHES

VCT 1
- ITEM: VINYL COMPOSITION TILE
- MANUF.: ARMSTRONG - RAFIA
- COLOR/NO.: T.B.D.
- SIZE: 12" x 12"

CON 1
- ITEM: POLISHED SEALED CONCRETE
- FINISH: POLISH 800 GRIT

PFT 1
- ITEM: PORCELAIN FLOOR TILE
- MANUF.: DALTILE
- COLOR/NO.: CITY VIEW; URBAN EVENING CY08
- SIZE: 12" X 12"

## MISCELLANEOUS FINISHES

PL 1
- ITEM: PLASTIC LAMINATE
- MANUF.: WILSONART
- COLOR/NO.: EBONY RECON 7997-38

PL 2
- ITEM: PLASTIC LAMINATE
- MANUF.: WILSONART
- COLOR/NO.: DESIGNER WHITE D354, MATTE FINISH

SS 1
- ITEM: SOLID SURFACE COUNTERTOP
- MANUF.: CAESARSTONE
- COLOR/NO.: 3141
- THICKNESS: EGGSHELL


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FIRST FINISH PLAN

| # | DATE | REMARKS |
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04/15/2021 PROGRESS SET

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SHEET

A4-1

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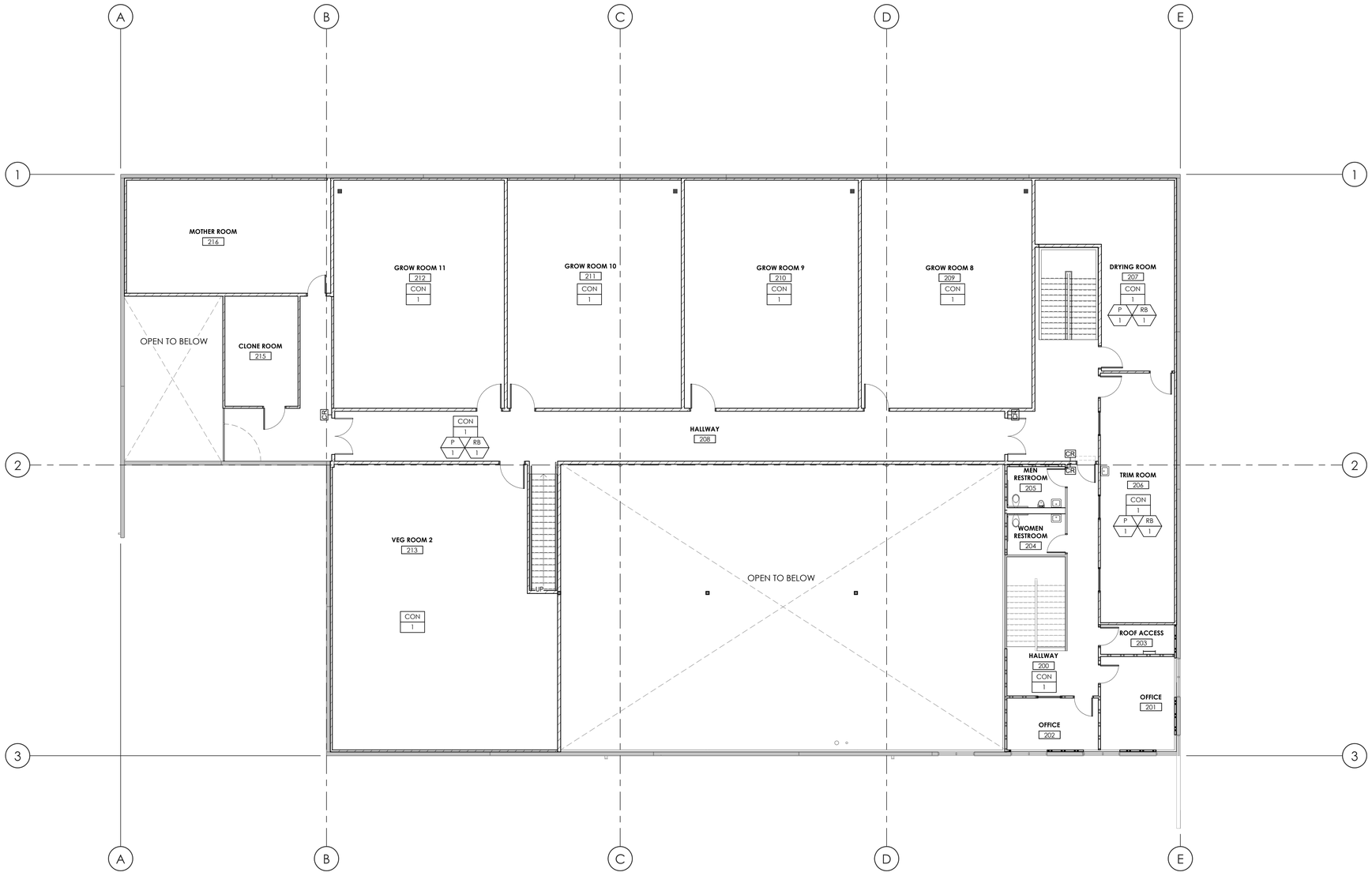


1/8"=1'-0"

0 4' 8' 16' 32'

N

SECOND FINISH PLAN

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

1

# GENERAL NOTES

## FINISH PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2. SEE ENLARGED RESTROOM ELEVATIONS FOR WALL FINISHES.
3. SEE MILLWORK ELEVATIONS FOR COUNTERTOP AND CABINETRY FINISHES.
4. PROVIDE APPROPRIATE SEALER FOR ALL NEW FINISHES PER MANUFACTURER'S RECOMMENDATION
5. PROTECT FINISHES FROM MARKS, IDENTATIONS AND OTHER DAMAGE FROM CONSTRUCTION OPERATIONS AND PLACEMENT OF EQUIPMENT AND FIXTURES DURING REMAINDER OF CONSTRUCTION PERIOD. USE PROTECTION METHODS RECOMMENDED IN WRITING BY MANUFACTURER.
6. INSTALLATION LEVELS OF GYPSUM BOARD FINISHING AS FOLLOWS:
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   - 6.2 LEVEL 2 FINISH: AS A SUBSTRATE FOR TILE.
   - 6.3 LEVEL 3 FINISH: WHEN SCHEDULED TO RECEIVE A HEAVY OR MEDIUM TEXTURED FINISH.
   - 6.4 LEVEL 4 FINISH: IN OFFICES AND OTHER AREAS THAT RECEIVE LOWER PUBLIC TRAFFIC AND VISIBILITY.
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7. ROOMS TO RECEIVE PAINT (P-1), RUBBER BASE (RB-1) AND CONCRETE (CON-1), U.O.N.
8. PREPARE WALLS TO RECEIVE (2) COATS EGGSHELL PAINT, U.O.N.
9. GYPSUM BOARD SOFFIT/CEILING TO RECEIVE PAINT (P-1)

# FINISHES NOTES 400

# SYMBOL LEGEND

INDICATES LINE OF FLOOR TRANSITION

INDICATES LOCATION OF NON-TYPICAL WALL FINISH

# FINISHES LEGEND

SEE SHEET A4.2 FOR MISCELLANEOUS FINISHES

## WALL FINISHES

P-1
- ITEM: PAINT - TYPICAL THROUGHOUT, U.O.N.
- MANUF.: DUNN EDWARDS
- COLOR/NO. LIGHTHOUSE DEW385
- FINISH: EGGSHELL

RB-1
- ITEM: RUBBER BASE
- MANUF.: BURKE
- COLOR/NO. THUNDER 727
- SIZE: 4"
- STYLE: COVED @ VCT / CONCRETE FLOORING

CWT-1
- ITEM: CERAMIC WALL TILE
- MANUF.: DALTILE
- COLOR/NO. WHITE / 0190
- SIZE: 3" H x 6" W
- STYLE: RITTENHOUSE SQUARE

## FLOOR FINISHES

VCT-1
- ITEM: VINYL COMPOSITION TILE
- MANUF.: ARMSTRONG - RAFIA
- COLOR/NO.: T.B.D.
- SIZE: 12" x 12"

CON-1
- ITEM: POLISHED SEALED CONCRETE
- FINISH: POLISH 800 GRIT

PFT-1
- ITEM: PORCELAIN FLOOR TILE
- MANUF.: DALTILE
- COLOR/NO.: CITY VIEW: URBAN EVENING CY08
- SIZE: 12" X 12"

## MISCELLANEOUS FINISHES

PL-1
- ITEM: PLASTIC LAMINATE
- MANUF.: WILSONART
- COLOR/NO.: EBONY RECON 7997-38

PL-2
- ITEM: PLASTIC LAMINATE
- MANUF.: WILSONART
- COLOR/NO.: DESIGNER WHITE D354, MATTE FINISH

SS-1
- ITEM: SOLID SURFACE COUNTERTOP
- MANUF.: CAESARSTONE
- COLOR/NO.: 3141
- THICKNESS: EGGSHELL

# LEGEND

REF.

REFRIGRATOR
MANUF.: AVANTCO
MODEL: GDC SERIES _178GDC23HCB
SIZE: 28 3/8" W X 31 7/8" L X 84 3/8" H

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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SECOND FINISH PLAN

| # | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -.----.-- |

04/15/2021 PROGRESS SET

SHEET

A4-2

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15/04/2021 17:17:50

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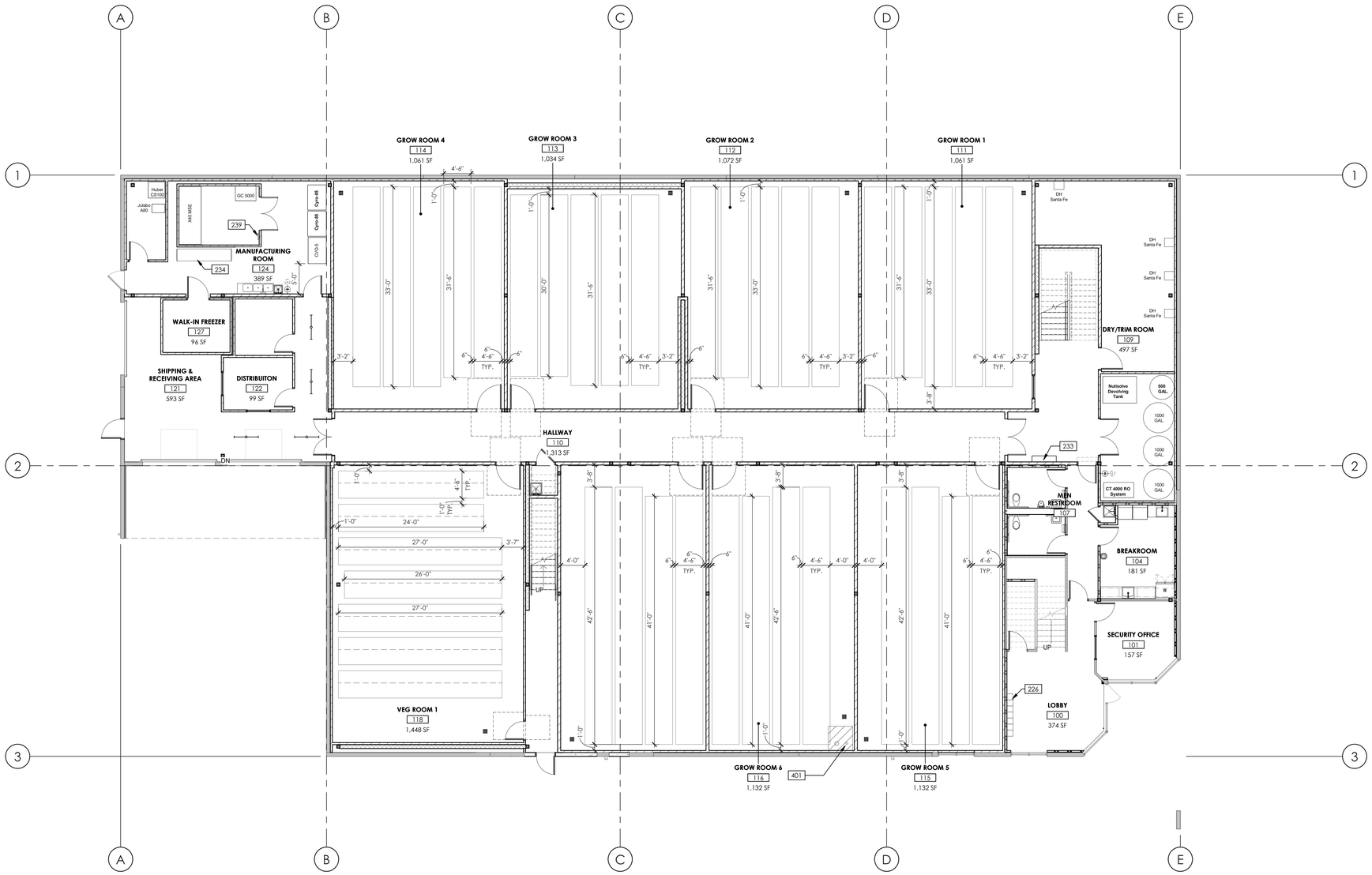


## GENERAL NOTES

POWER AND SIGNAL PLAN

1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2. ARCHITECTURAL DIMENSIONS AND LOCATIONS TAKE PRECEDENCE. SEE ELECTRICAL DRAWINGS FOR COORDINATION. IF INCONSISTENCIES OCCUR CONTACT ARCHITECT FOR CLARIFICATION.
3. CONTRACTOR TO RELOCATE LIGHTING, SWITCHING AND ELECTRICAL CIRCUITING AS REQUIRED.
4. ALL TELEPHONE/ELECTRICAL OUTLETS IN EXISTING WALLS TO REMAIN, U.O.N. PROVIDE NEW ELECTRICAL, DATA AND TELEPHONE OUTLETS AS INDICATED ON PLAN.
5. NEW DATA CABLING TO BE SUPPLIED AND INSTALLED BY TENANT (PLENUM RATED REQUIRED).
6. VERIFY POWER REQUIREMENTS FOR USER, PROVIDE EQUIPMENT PRIOR TO INSTALLATION OR RELATED POWER & SIGNAL CONNECTIONS.
7. ALL FURNITURE TO BE PROVIDED AND INSTALLED BY TENANT. HYPOTHETICAL LAYOUT ONLY SHOWN. VERIFY EXACT LOCATIONS WITH FURNITURE DEALER PRIOR TO INSTALLATION OF RELATED POWER AND SIGNAL CONNECTIONS.

## FLOOR NOTES

226 PROVIDE DOUBLE TIER LOCKERS, 12"W x 15"D; MANUF: PENCO, GUARDIAN STANDARD POWDER COAT FINISH OR APPROVED EQUAL.
233 PROVIDE AND INSTALL WIRE RACKS.
234 STAINLESS STEEL TABLE.
239 FIRE ALARM DOCUMENT CABINET.
401 ADD YELLOW PAINTING STRIPPING AT THE AREA OF FIRE RISER PIPES PER FIRE DEPARTMENT STANDARDS TO PREVENT BLOCKING THE FIRE RISER PIPES & VALVES.

## LEGEND

DH Santa Fe — DEHUMIDIFIER
MANUF.: SANTA FE
MODEL: 4029700
INPUT VOLTAGE: 110-120 V
INPUT POWER AT: 700 WATT
PRODUCT WEIGHT: 110 LBS
SIZE: 20" W X 17" L X 36" H

## CANNABIS USE AREA CALCULATION:

CANNABIS USE AREA CALCULATION:
GROW ROOM 1-11: 1102+1080+1080+1077+1146+1124+1120+1102+1080 1080+1077 = 12,068 SF
VEG ROOM 1-2: 1490 + 1611 = 3101
FERTIGATION ROOM 251 SF
DRY ROOM 494 SF
DRYING ROOM 494 SF
TRIM ROOM 499 SF
TOTAL 16,907 SF
MANUFACTURING
MANU. AREA 640 SF
SHIPPING & CORRIDOR
SHIPPING AREA 1,435 SF
CORRIDOR: 980+ 280 + 1,125 2,385 SF
---
GRAND TOTAL 21,8

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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

FIRST FLOOR EQUIPMENT PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
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| JOB NO.: | -.---.-- |

SHEET
A5-1

04/15/2021 PROGRESS SET

1/8"=1'-0"
0 4' 8' 16' 32'

FIRST FLOOR EQUIPMENT PLAN — SCALE: 1/8" = 1'-0" — 1

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## GENERAL NOTES

POWER AND SIGNAL PLAN

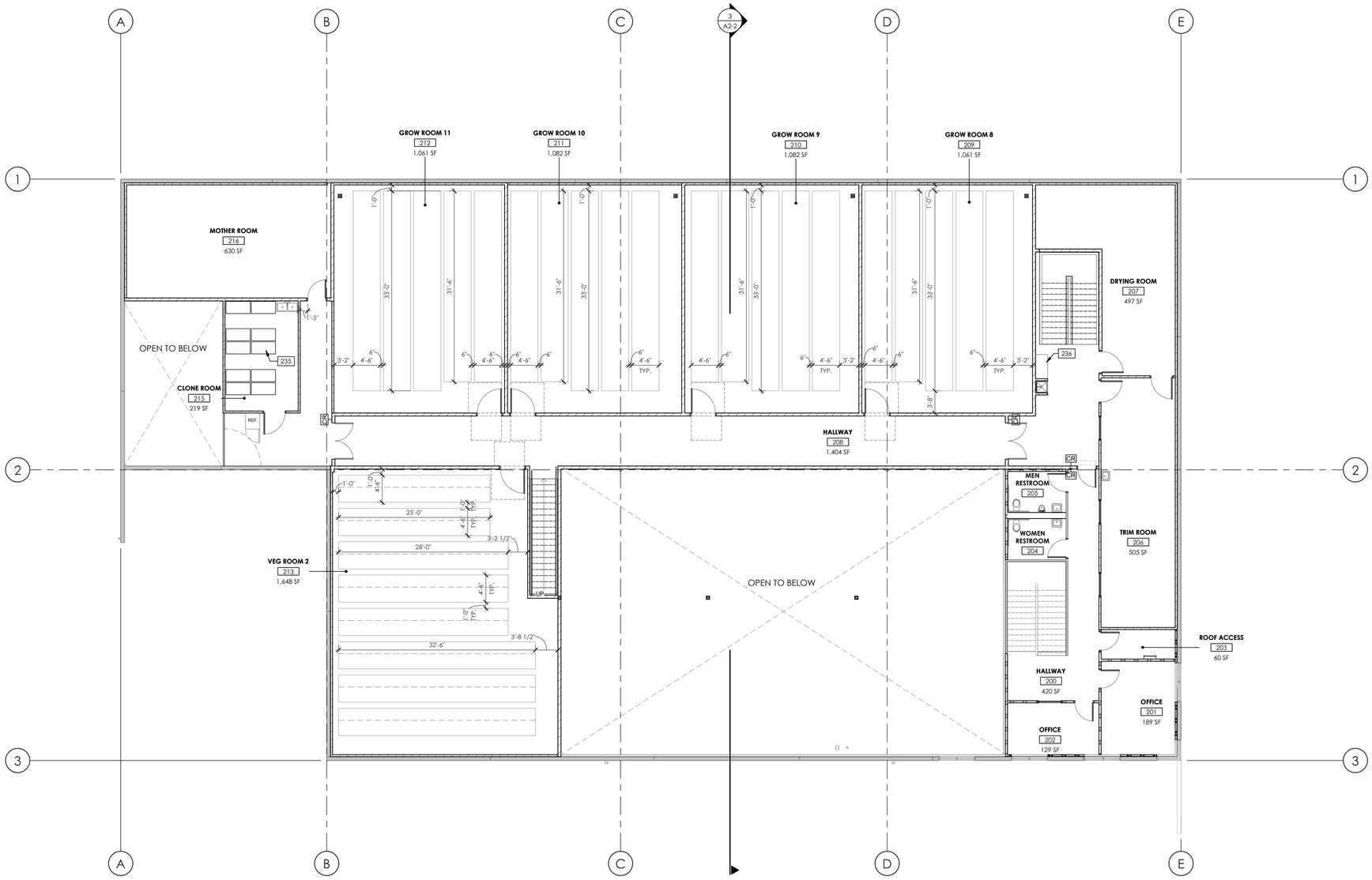
1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2. ARCHITECTURAL DIMENSIONS AND LOCATIONS TAKE PRECEDENCE. SEE ELECTRICAL DRAWINGS FOR COORDINATION. IF INCONSISTENCIES OCCUR CONTACT ARCHITECT FOR CLARIFICATION.
3. CONTRACTOR TO RELOCATE LIGHTING, SWITCHING AND ELECTRICAL CIRCUITING AS REQUIRED.
4. ALL TELEPHONE/ELECTRICAL OUTLETS IN EXISTING WALLS TO REMAIN, U.O.N. PROVIDE NEW ELECTRICAL, DATA AND TELEPHONE OUTLETS AS INDICATED ON PLAN.
5. NEW DATA CABLING TO BE SUPPLIED AND INSTALLED BY TENANT (PLENUM RATED REQUIRED).
6. VERIFY POWER REQUIREMENTS FOR USER, PROVIDE EQUIPMENT PRIOR TO INSTALLATION OR RELATED POWER & SIGNAL CONNECTIONS.
7. ALL FURNITURE TO BE PROVIDED AND INSTALLED BY TENANT. HYPOTHETICAL LAYOUT ONLY SHOWN. VERIFY EXACT LOCATIONS WITH FURNITURE DEALER PRIOR TO INSTALLATION OF RELATED POWER AND SIGNAL CONNECTIONS.

## FLOOR NOTES

235 24"x48" RACKS.
236 SANITIZE STATION.

## LEGEND

REF. REFRIGRATOR
MANUF.: AVANTCO
MODEL: GDC SERIES _178GDC23HCB
SIZE: 28 3/8" W X 31 7/8" L X 84 3/8" H




1/8"=1'-0"
0 4' 8' 16' 32'

N

SECOND FLOOR EQUIPMENT PLAN | SCALE: 1/8" = 1'-0" | 1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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SECOND FLOOR EQUIPMENT PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

04/15/2021 PROGRESS SET

| | |
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SHEET

A5-2

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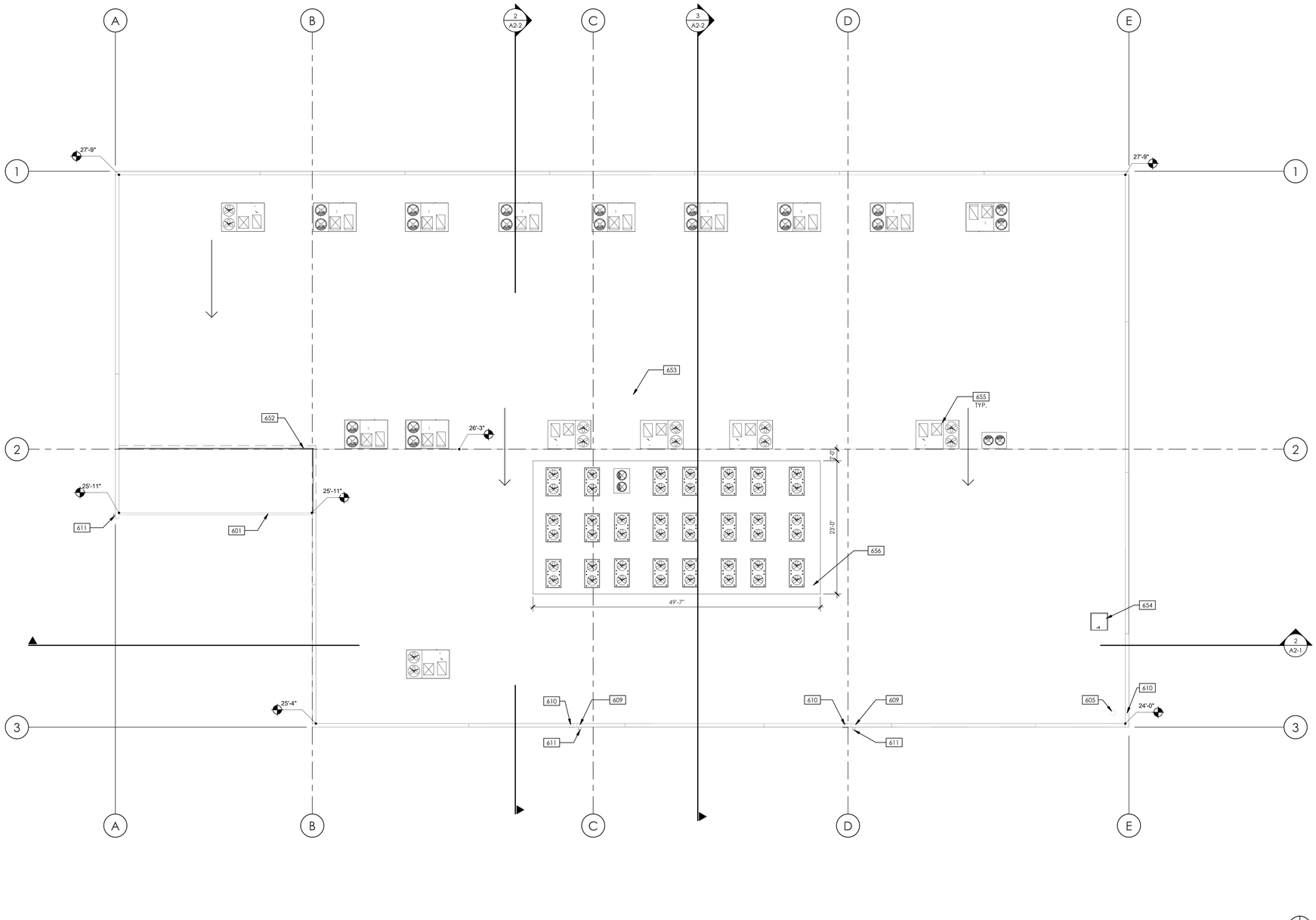


1/8"=1'-0"

0 4' 8' 16' 32'

ROOF PLAN | SCALE: 1/8" = 1'-0" | 1

# ROOF NOTES 600

SEE SHEET A0.2 FOR GENERAL NOTES

EXISTING:

601 EXISTING GUTTER. REPAIR WHERE NEEDED.
605 EXISTING ROOF DRAIN.
609 EXISTING ROOF DRAIN SCUPPER.
610 EXISTING OVERFLOW SCUPPER.
611 EXISTING DOWNSPOUT AND OVERFLOW SCUPPER

NEW:

652 NEW PIPE METAL GUARDRAIL TO BE MOUNTED ON TOP OF EXISTING ROOF WITH 42" HT. FROM EXISTING ROOF AT PARAPET AREA. SEAL & WATERPROOF THE PENETRATION AT MOUNTING AREA.
653 G.C. TO COORDINATE WITH THE OWNER TO PROVIDE AND INSTALL NEW ROOFING.
654 NEW ROOF HATCH & LADDER. SEE DETAIL 17/A10.1.
655 NEW MECHANICAL UNIT ON PLATFORM PER 25/A10.0. SEE STRUCTURAL & MECHANICAL DRAWINGS FOR MORE INFORMATION.
656 NEW EQUIPMENT RAISED PLATFORM. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

**NOTE:**

ALL ROOF PENETRATIONS 96 SQUARE INCHES OR LARGER ARE REQUIRED TO BE SECURED WITH BURGLAR BARS PER CITY STANDARDS. CONTACT THE POLICE DEPARTMENT AT 647-5840 FOR SPECIFICATIONS AND ROUGH INSPECTION PRIOR TO MECHANICAL SIGN-OFF.


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TENANT IMPROVEMENT
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BALDWIN PARK, CA

ROOF PLAN

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
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SHEET

A6-0

04/15/2021 PROGRESS SET


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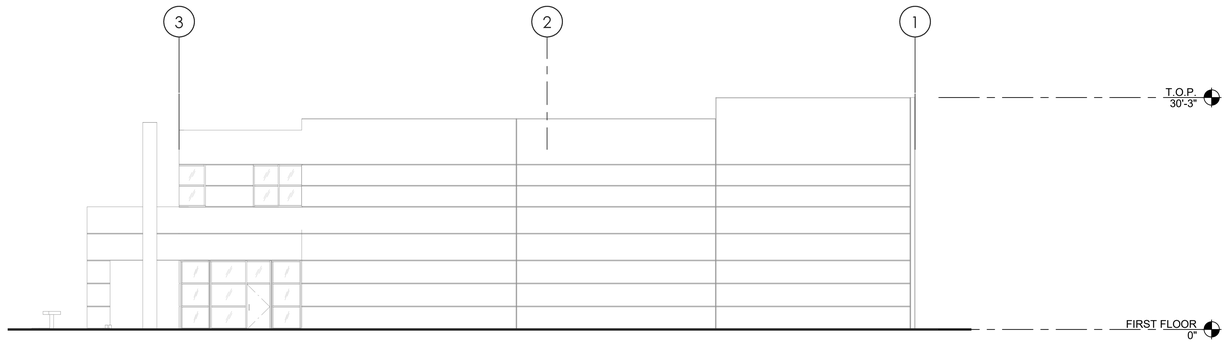
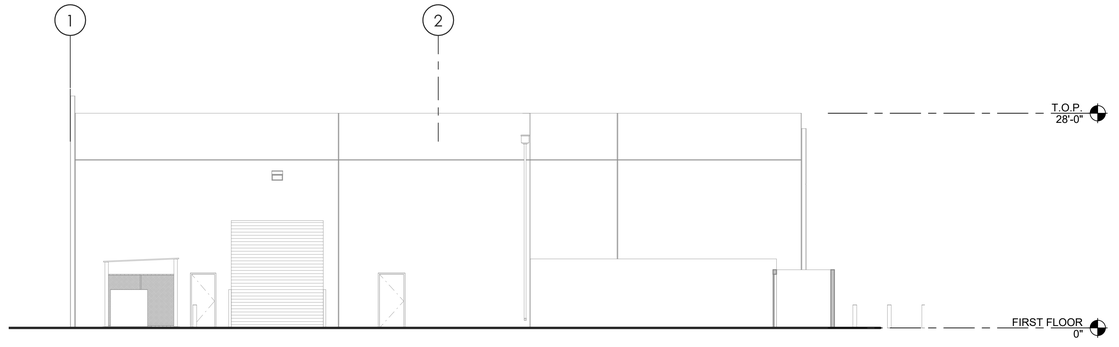
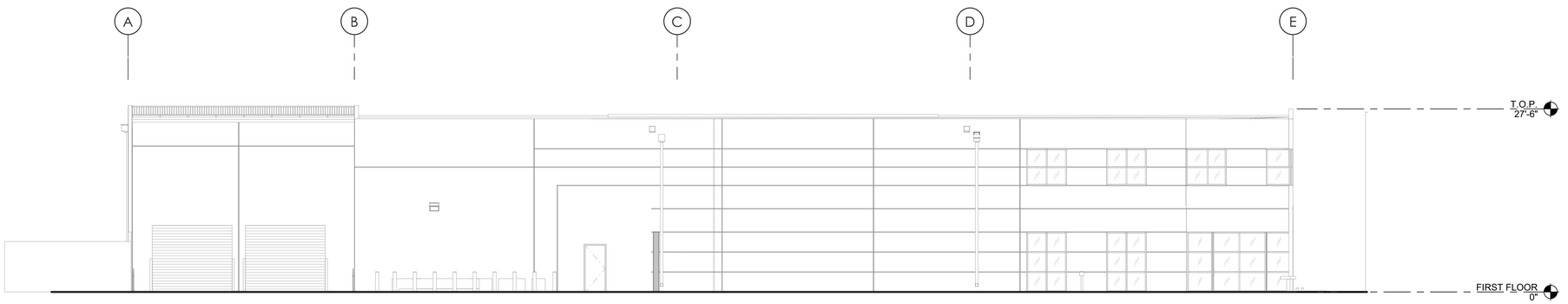


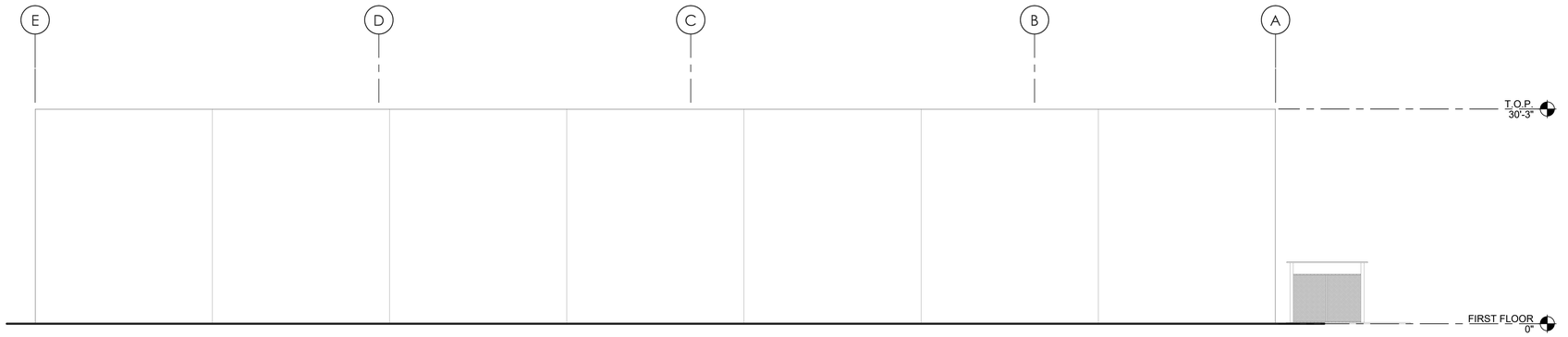

EAST ELEVATION | SCALE: 1/8" = 1'-0" | 1




WEST ELEVATION | SCALE: 1/8" = 1'-0" | 2




SOUTH ELEVATION | SCALE: 1/8" = 1'-0" | 3




NORTH ELEVATION | SCALE: 1/8" = 1'-0" | 4

## NOTES

SEE SHEET A0.2 FOR GENERAL NOTES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# FRESHMADE GROW

TENANT IMPROVEMENT

4517 LITTLEJOHN STREET
BALDWIN PARK, CA

EXTERIOR ELEVATIONS

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
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SHEET

A7-1

04/15/2021 PROGRESS SET



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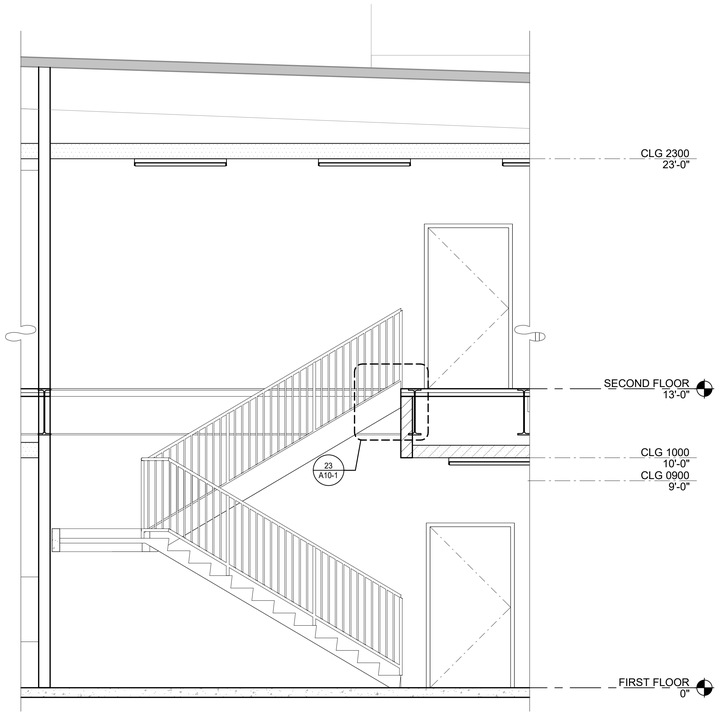
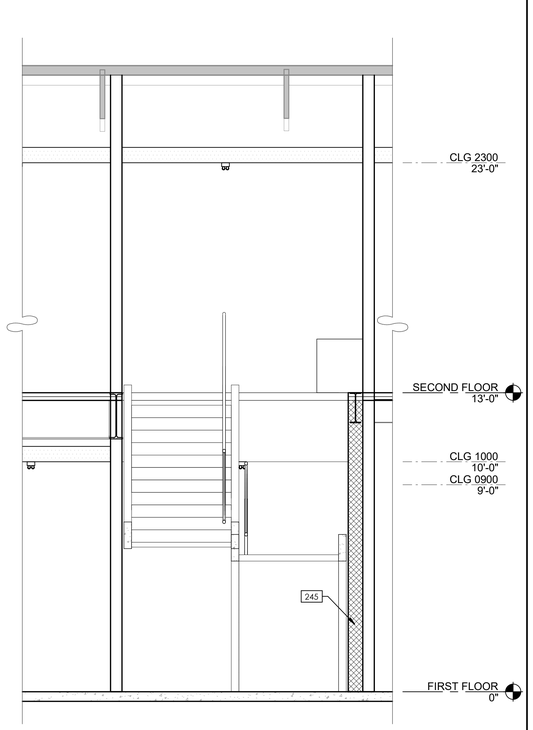
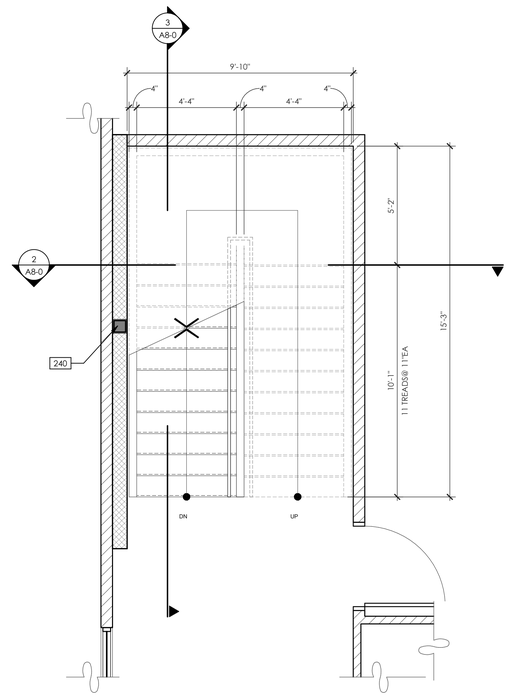



STAIR#1 SECTION | SCALE: 3/8" = 1'-0" | 3




STAIR#1 SECTION | SCALE: 3/8" = 1'-0" | 2




FIRST FLOOR PLAN | SCALE: 3/8" = 1'-0" | 1

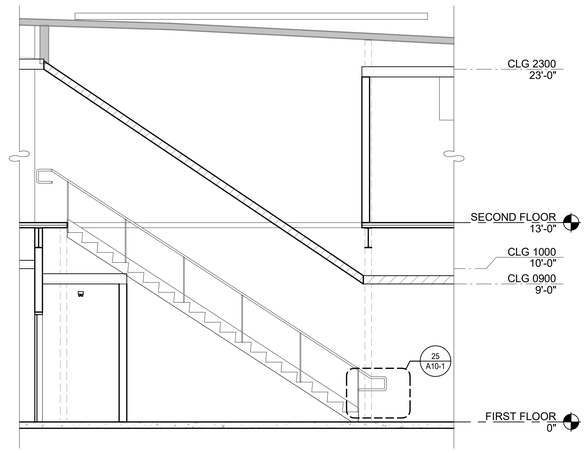
## GENERAL NOTES

FLOOR PLAN

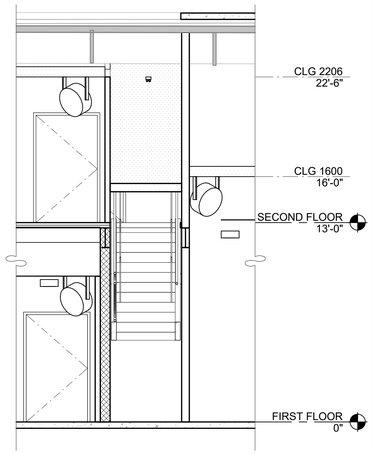
1. SEE SHEET A0.2 FOR ADDITIONAL GENERAL NOTES
2. ALL WALL STUDS TO BE 3-5/8", U.O.N.
3. FOR METAL STUD SIZES AND SPACING SEE STRUCTURAL DRAWING
4. ALL RESTROOM WALL STUDS TO BE 6" AND FULLY INSULATED, U.O.N.
5. SEE KEYNOTE INFORMATION FOR ANY REQUIRED INSULATION.
6. CONTRACTOR SHALL PROVIDE RECORD DOCUMENTS AND PROVIDE SAID DOCUMENTATION TO TENANT CONSTRUCTION COORDINATOR OR ARCHITECT AS PART OF CONTRACTOR CLOSE-OUT.
7. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS (IF ANY) AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. CONTRACTOR TO INCLUDE ALL FLOOR PREPARATIONS IN BASE BID.
9. ALL DRYWALL CORNERS AND COLUMN EDGES TO BE FINISHED WITH CORNER "L" BEAD.
10. INTERIOR GYPSUM BOARD WALL SHALL CONFORM TO ICC REPORT ESR-1338
11. CONTRACTOR TO PROVIDE BLOCKING FOR SHELVING AND CABINETS.
12. G.C. TO VERIFY EXISTING DOOR HARDWARE FOR FUNCTIONALITY & ACCESS COMPLIANCE; REPLACE WITH NEW IF NEEDED

## FLOOR NOTES 200

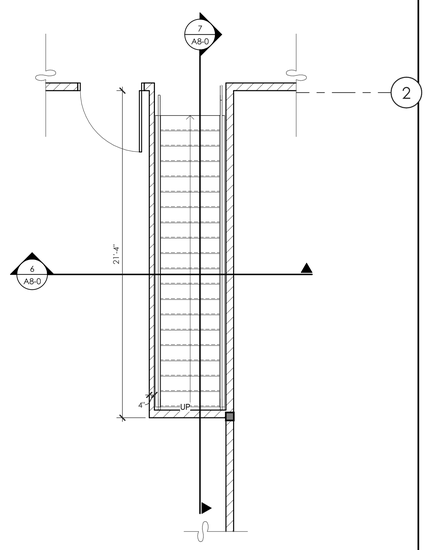
240 NEW STEEL COLUMN. SEE STRUCTURAL DRAWINGS.
245 NEW CMU WALL. SEE STRUCTURAL DRAWING.



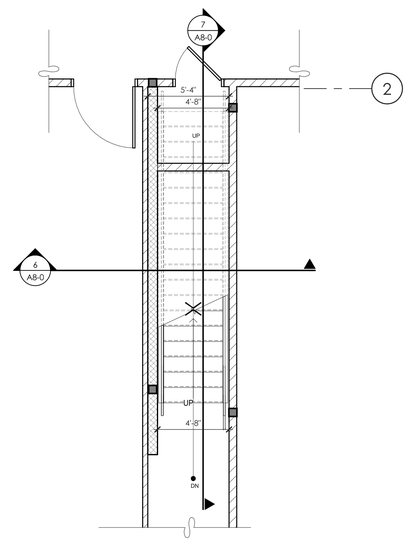

STAIR#2 SECTION | SCALE: 1/4" = 1'-0" | 7




STAIR#2 SECTION | SCALE: 1/4" = 1'-0" | 6




SECOND FLOOR PLAN | SCALE: 1/4" = 1'-0" | 5




FIRST FLOOR PLAN | SCALE: 1/4" = 1'-0" | 4

## WALL LEGEND

- U (A10-0) — EXISTING EXTERIOR CONCRETE WALL WITH FURRING
- EXISTING CONCRETE WALL
- F (A10-0) — FULL HEIGHT NON-RATED PARTITION TO STRUCTURE
- A (A10-0) — PARTITION TO 6" ABOVE CEILING
- PRE-FAB INSULATED WALL PANEL BY OTHERS (DEFERRED SUBMITTAL)

## WALL TYPES

* ALL WALLS TO BE OF TYPE < **A3** > U.O.N.
* SEE SHEET **A10-0** FOR WALL TYPES

| WALL TAG | WALL DESCRIPTION |
|---|---|
| A3 | 1 LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OVER 3-5/8" METAL STUD, NON-RATED PARTITION MIN. 6" ABOVE CEILING. |
| F6 | 1 LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OVER 2X4 WOOD STUD, NON-RATED FULL HEIGHT PARTITION. |
| PR | MODULAR INSULATED PREFAB WALL PANELS BY OTHERS. |
| U2 | 1 LAYER OF 5/8" GYPSUM BOARD ON ONE SIDE OVER 2 1/2" METAL STUD WITH R-13 FIBERGLASS INSULATION, NON-RATED FURRING PARTITION TO 6" ABOVE CEILING. SEE DETAIL U/A10.1 |

## LEGEND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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
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STAIRS PLANS & ELEVATIONS

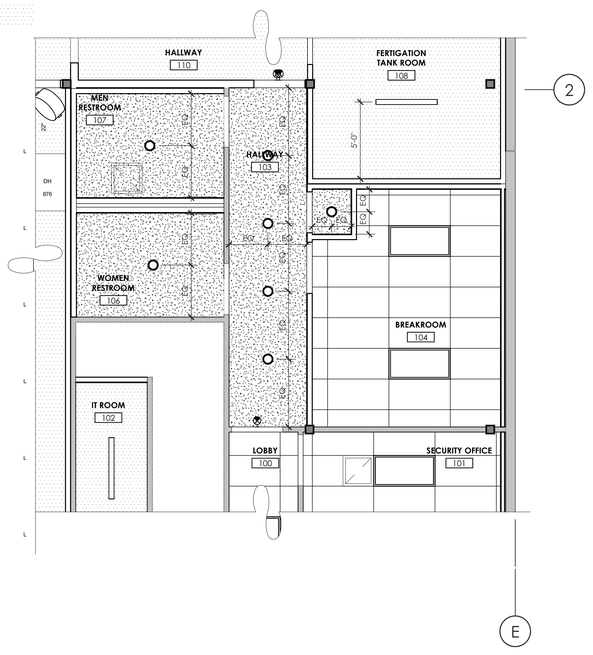
| DATE | REMARKS |
|---|---|

| | |
|---|---|
| PA/PM: | Approver |
| DRAWN BY.: | Author |
| JOB NO.: | -.----.-- |

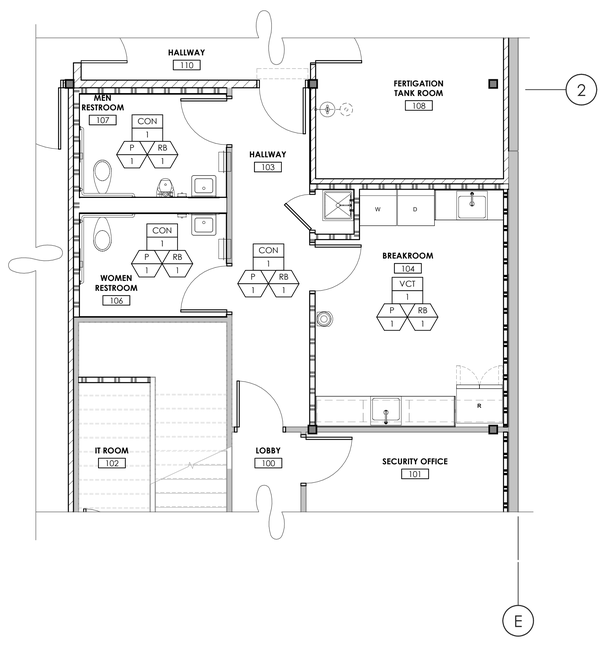
04/15/2021 PROGRESS SET

SHEET

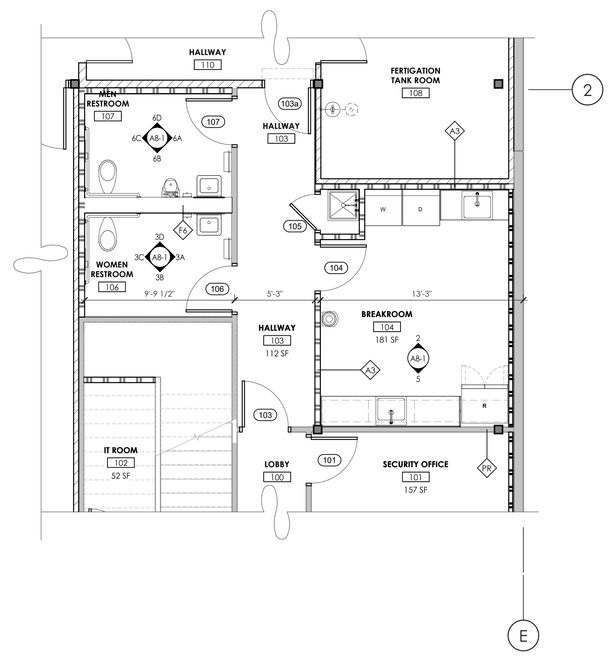
A8-0



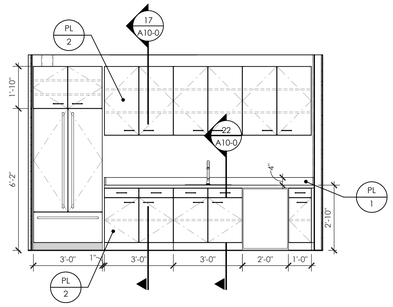

FIRST FLOOR REFLECTED CEILING PLAN | SCALE: 1/4" = 1'-0" | 7



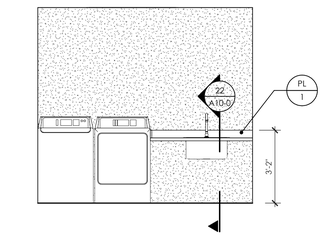

ENLARGED FLOOR FINISH PLAN | SCALE: 1/4" = 1'-0" | 4



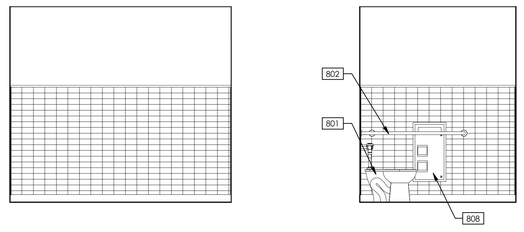

ENLARGED FLOOR PLAN | SCALE: 1/4" = 1'-0" | 1

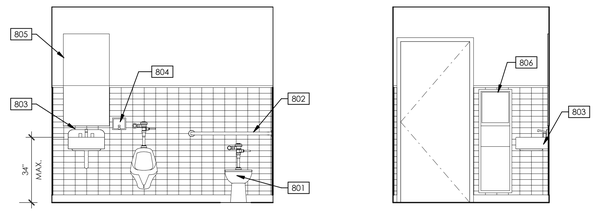



BREAK ROOM CABINETRY ELEVATION | SCALE: 3/8" = 1'-0" | 5

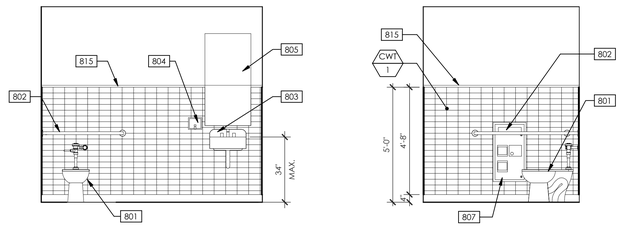


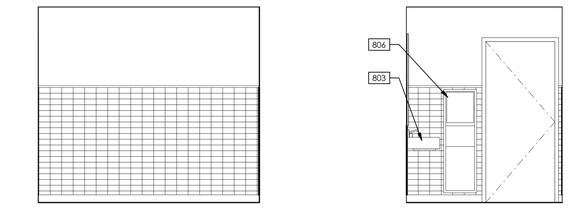

BREAK ROOM CABINETRY ELEVATION | SCALE: 3/8" = 1'-0" | 2




MEN'S RESTROOM ELEVATIONS | SCALE: 3/8" = 1'-0" | 6




WOMENS'S RESTROOM ELEVATIONS | SCALE: 3/8" = 1'-0" | 3

## MILLWORK/CABINETRY NOTES

SEE SHEET A0.2 FOR GENERAL NOTES

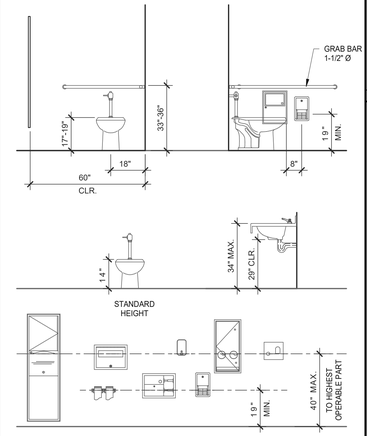
1. ALL MILLWORK SHALL CONFORM TO THE CURRENT WOODWORK INSTITUTE STANDARDS PREMIUM GRADE. ALL CABINETRY SHALL CONFORM TO THE CURRENT WOODWORK INSTITUTE STANDARDS CUSTOM GRADE.
2. SHOP DRAWINGS FOR ALL CABINETRY AND MILLWORK ARE REQUIRED TO BE SUBMITTED TO ARCHITECT AND OWNER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
3. ALL NOTES AND DETAILS FOR DETAIL 2/- ARE TYPICAL FOR THIS ENTIRE PAGE OF DETAILS, UNLESS OTHERWISE NOTED.
4. SEE ELEVATIONS FOR FINISHES SPECIFICATIONS.
5. DOOR PULLS SHALL BE: 4" SATIN CHROMIUM WIRE PULLS/BRUSHED CHROME FINISH
6. COUNTERTOPS SHALL HAVE BACK-SPLASHES ONLY WHERE SHOWN ON ELEVATION.
7. CABINET INTERIORS SHALL BE WHITE MELAMINE, INCLUDING EDGES.
8. INTERIOR SHELVING SHALL BE COVERED IN WHITE MELAMINE.
9. DOORS SHALL BE OF FLUSH OVERLAY CONSTRUCTION.
10. DOORS EDGES SHALL BE EDGE BANDED TO MATCH THE FRONTS.
11. INTERIOR OF DOOR SHALL BE FACED WITH SAME MATERIAL AS THE FRONTS.
12. ALL DRAWERS TO HAVE ACCURRIDE (OR APPROVED EQUAL) - FULL EXTENSION GUIDES.
13. EACH CABINET DOOR TO BE NO LESS THAN 12" WIDE AND NO GREATER THAN 18" WIDE U.O.N.
14. (*) VERIFY ALL EQUIPMENT CLEARANCES.

## NOTES

SEE SHEET A0.2 FOR GENERAL NOTES

801 NEW WATER CLOSET - FULLY ACCESSIBLE, FLOOR-MOUNTED WITH FLUSH VALVE.
802 NEW TOILET COMPARTMENT TWO WALL GRAB BAR, BOBRICK B-6897 (OR EQUAL),42"x52" x 1-1/2" DIAMETER GRAB-BAR WITH BOBRICK B-2583 (OR EQUAL),CONCEALED ANCHOR PLATES.
803 WALL HUNG LAVATORY; SEE PLUMBING DRAWING FOR MORE INFORMATION.
804 SOAP DISPENSER - WALL-MOUNTED, BOBRICK B-2111 (OR EQUAL), MOUNTED ADJACENT TO LAVATORY.
805 NEW MIRROR AT SINK - 36"H x 24"W FIRST QUALITY MIRROR; INSTALL FILLER TO MOUNT MIRROR AS REQUIRED.
806 NEW PAPER TOWEL DISPENSER & WASTE RECEPTACLE, RECESSED -BOBRICK B-3944 (OR EQUAL).
807 NEW TOILET SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER, RECESSED - BOBRICK B-3574 (OR EQUAL).
808 NEW TOILET SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER, RECESSED - BOBRICK B-3474 (OR EQUAL).
815 G.C. TO INSTALL SCHLUTER STRIP AT TILE TRANSITION TO GYP. BD. WALL.

## RESTROOM MOUNTING HEIGHTS

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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

ENLARGED PLANS & INTERIOR ELEVATIONS

| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -----.-- |

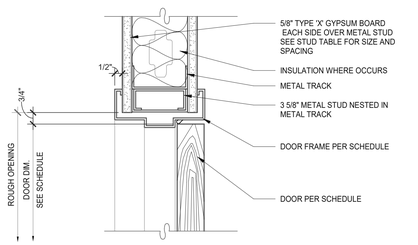
SHEET
A8-1

04/15/2021 PROGRESS SET

Freshmade Grow - 2021-04-14_detached.rvt

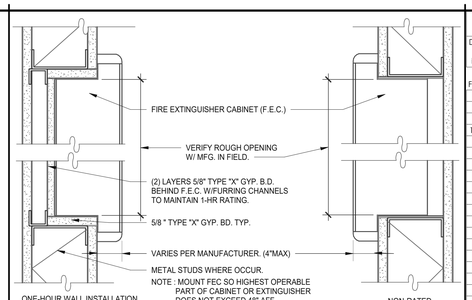
15/04/2021 17:18:18

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT



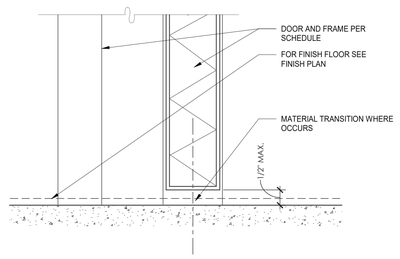

## DOOR HEAD (JAMB SIM.)

SCALE: 3" = 1'-0" | 3




## FIRE EXTINGUISHER CABINET

SCALE: 3" = 1'-0" | 1




## CONC. TO FINISH FLOOR

SCALE: 6" = 1'-0" | 2

## DOOR HARDWARE NOTES

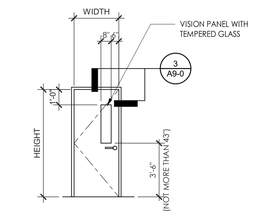
A. EGRESS DOORS/GATES SHALL BE READILY OPENABLE FROM THE EGRESS IDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. (1010.1.9)
B. OPENABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
C. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE 5-LB MAXIMUM.
D. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.

## GENERAL NOTES

SEE SHEET A0.2 FOR GENERAL DOOR NOTES

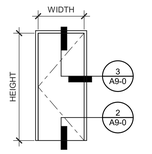
1. REFER TO THE PARTITION PLAN AND SPECIFICATIONS (IF PROVIDED) FOR ADDITIONAL DOOR INFORMATION.
2. SOLID CORE TO BE LAMINATED WITH _____
3. DOOR FRAMES TO BE WESTERN INTEGRATED/TIMELY.
4. HOLLOW METAL DOORS TO BE PAINTED SAME COLOR AS THE ADJACENT WALL; FINISH TO BE SEMI-GLOSS. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
5. PROVIDE RATED WIRE GLASS IN RATED ASSEMBLIES, U.O.N.
6. FIELD VERIFY OPENING WIDTH AND HEIGHT FOR ALL NEW DOORS IN EXISTING OPENINGS.
7. ALL HOLLOW METAL FRAMES TO BE WELDED TYPE, U.O.N.
8. RATED DOORS SHALL HAVE AUTOMATIC CLOSERS AND COMPLY WITH REQUIREMENTS OF ALL GOVERNING CODES & STANDARDS.

## DOOR TYPES




N1

SINGLE FLUSH
WITH NARROW VISION




F1

SOLID FLUSH

## DOOR SCHEDULE

| DOOR NO. | ROOM NAME | DOOR TYPE | DOOR WIDTH | DOOR HEIGHT | DOOR THICK | DOOR MATERIAL | DOOR FINISH | FRAME MATERIAL | FRAME FINISH | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| FIRST FLOOR | | | | | | | | | | |
| 101 | SECURITY OFFICE | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 102 | LOBBY | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 103 | LOBBY | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 103a | HALLWAY | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 104 | BREAKROOM | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 105 | HOUSEKEEPING | F1 | 2'-4" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 106 | WOMEN RESTROOM | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 107 | MEN RESTROOM | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 108 | FERTIGATION TANK ROOM | N1 | 6'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 109 | DRY/TRIM ROOM | F1 | 3'-6" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 110 | HALLWAY | N1 | 6'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 111 | GROW ROOM 1 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 112 | GROW ROOM 2 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 113 | GROW ROOM 3 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 114 | GROW ROOM 4 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 115 | GROW ROOM 5 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 116 | GROW ROOM 6 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 117 | GROW ROOM 7 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 118 | VEG ROOM 1 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 118a | VEG ROOM 1 | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 119 | JANITOR | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 120 | HALLWAY | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 121 | SHIPPING & RECEIVING AREA | F1 | 3'-2" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 121a | SHIPPING & RECEIVING AREA | N1 | 6'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 122 | DISTRIBUITON | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 123 | VAULT | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 124 | SHIPPING & RECEIVING AREA | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 125 | EXTRACTION BOOTH | | 5'-6" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 126 | MANUFACTURING ROOM | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 127 | WALK-IN FREEZER | F1 | 3'-6" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| E100 | LOBBY | | 3'-0" | 5'-11" | | | | | | |
| E124 | MANUFACTURING ROOM | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| SECOND FLOOR | | | | | | | | | | |
| 200 | HALLWAY | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 201 | OFFICE | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 202 | OFFICE | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 203 | ROOF ACCESS | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 204 | WOMEN RESTROOM | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 205 | MEN RESTROOM | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 206 | TRIM ROOM | F1 | 3'-6" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 206a | TRIM ROOM | F1 | 3'-6" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 207 | DRYING ROOM | F1 | 3'-6" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 208 | HALLWAY | N1 | 6'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 209 | GROW ROOM 8 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 210 | GROW ROOM 9 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 211 | GROW ROOM 10 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 212 | GROW ROOM 11 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 213 | VEG ROOM 2 | F1 | 4'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 214 | HALLWAY | N1 | 6'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 215 | HALLWAY | F1 | 3'-6" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |
| 216 | HALLWAY | F1 | 3'-0" | 7'-0" | 1 3/4" | HOLLOW METAL | PAINTED | HOLLOW METAL | PAINTED | |

Grand total: 50

## DOOR HARDWARE

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DOOR SCHEDULE

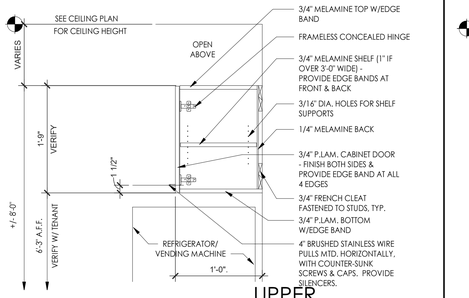
| | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -.----.-- |

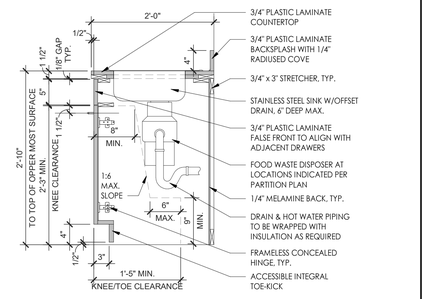
04/15/2021 PROGRESS SET

SHEET

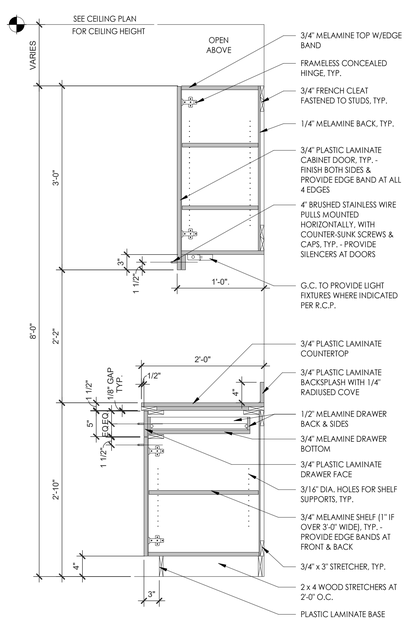
A9-0



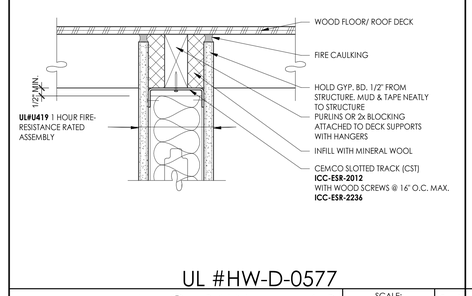

UPPER CAB. ABOVE REF./VEND. | SCALE: 1" = 1'-0" | 21




LOWER CABINET AT SINK | SCALE: 1" = 1'-0" | 22

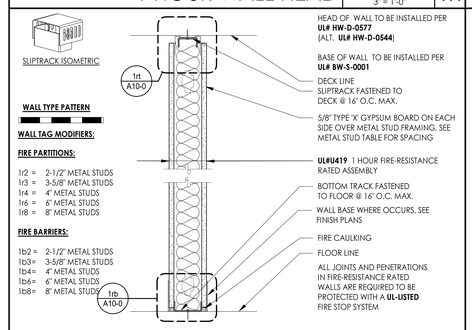



UPPER/LOWER CABINETS | SCALE: 1" = 1'-0" | 17



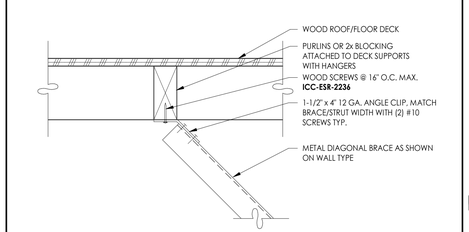

UL #HW-D-0577

1 HOUR WALL HEAD | SCALE: 3" = 1'-0" | 1rt

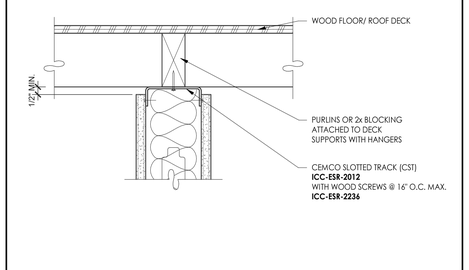



1 HOUR FIRE-RESISTANCE RATED WALL

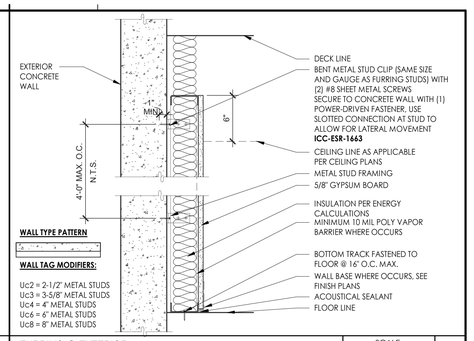
WALL TYPE -1- | SCALE: 1 1/2" = 1'-0" | 1r




WALL SWAY BRACE | SCALE: 3" = 1'-0" | 6

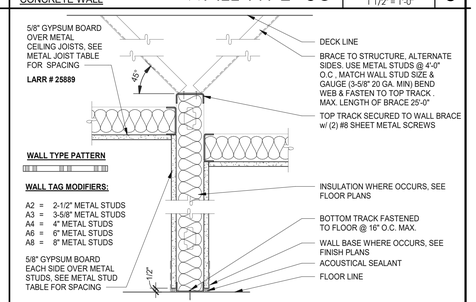



NON-RATED WALL HEAD | SCALE: 3" = 1'-0" | 7




FURRING @ EXTERIOR CONCRETE WALL

WALL TYPE -Uc- | SCALE: 1 1/2" = 1'-0" | U




WALL TO 6" ABOVE CEILING

WALL TYPE -A- | SCALE: 1 1/2" = 1'-0" | A




BACKING DETAIL FOR MISC. EQUIP. | SCALE: 1/2" = 1'-0" | 23




LOWER CABINETS W/4 DRAWERS | SCALE: 1" = 1'-0" | 18




1 HOUR FIRE-RESISTANCE RATED WALL

UL #BW-S-0001

1 HOUR WALL BASE | SCALE: 3" = 1'-0" | 1rb




FRAMING WALL HEAD | SCALE: 3" = 1'-0" | 8




FULL HEIGHT NON-RATED WALL

WALL TYPE -F- | SCALE: 1 1/2" = 1'-0" | F




ROOFING @ MECHANICAL UNIT PREFABRICATED CURB | SCALE: 3" = 1'-0" | 24




HORIZONTAL WALL BRACE | SCALE: 1" = 1'-0" | 19

**WALL TYPE NOTES:**

1. INTERIOR GYP. BD. WALLS SHALL CONFORM TO **ICC-ESR-1338**
2. SEE LIMITING WALL HEIGHT TABLE FOR METAL STUD GAUGE AND SPACING BASED ON WALL HEIGHTS AND STUD SIZES AS NOTED ON EACH WALL TYPE.
3. MAX. STUD SPACING SHALL BE 24".
4. MINIMUM FASTENER SIZE SHALL BE #6 - 1-1/4" SCREWS.
5. MAXIMUM FASTENER SPACING SHALL BE 12" FIELD AND 8" AT EDGES.
6. ALL WALL STUDS TO BE 3-5/8", U.O.N.
7. ALL RESTROOM WALL STUDS TO BE 6" AND FULLY INSULATED, U.O.N.

WALL TYPE NOTES | SCALE: 1" = 1'-0" | 14




EXTERIOR INFILL WALL | SCALE: 3" = 1'-0" | 9




FULL HEIGHT NON-RATED WALL

WALL BASE | SCALE: 3" = 1'-0" | 4




MECHANICAL UNIT PLATFORM | SCALE: 3" = 1'-0" | 25

**DESIGN BUILD METAL STUD:**

1. STEEL STUDS AND RUNNERS: MINIMUM BASE-METAL THICKNESS:
a. 25 GAGE UNLESS INDICATED OTHERWISE ON DRAWINGS OR BELOW:
1) INTERIOR METAL STUD/GYPSUM BOARD ASSEMBLIES, TYPICAL LOCATIONS: WITHSTAND LATERAL LOADING (AIR PRESSURE) OF 5 PSF SEE STRUCTURAL DRAWING FOR MORE INFORMATION
2) INTERIOR METAL STUD/GYPSUM BOARD ASSEMBLIES AT LOCATIONS WITH CERAMIC TILE OR OTHER HARD SURFACE FINISHES: WITHSTAND TYPICAL LATERAL LOADING (AIR PRESSURE) WITH DEFLECTION LIMIT NOT MORE THAN L/360 OF PARTITION HEIGHT, MINIMUM 20 GAGE STUDS AT 16" ON CENTER
3) WHERE WALL MOUNTED EQUIPMENT, WOODWORK, AND CASEWORK ITEMS ARE INDICATED OR ELSEWHERE AS SHOWN ON DRAWINGS, PROVIDE MINIMUM 16 GAGE STUDS.
4) AT PARTITIONS SCHEDULED TO RECEIVE TILE BACKING PANELS OR CERAMIC TILE FINISH, PROVIDE MINIMUM 22 GAGE STUDS.
5) AT JAMBS OF OPENINGS PROVIDE TWO MINIMUM 20 GAGE STUDS.
6) CEILINGS: AT CEILINGS USING MOLD-MILDEW RESISTANT GYPSUM, FRAMING TO BE 16 INCHES O.C. FOR 5/8" GYPSUM.
7) REFER TO DIVISION 5 FOR COLD FORMED STUD FRAMING WHICH IS EXPOSED TO WIND LOADS AND FOR STUDS CARRYING HEAVY VERTICAL LOADS (STONE TILE THICKER THAN 3/4 INCH, ETC)

b. WHERE PARTITION HEIGHTS EXCEED STUD MANUFACTURER'S RECOMMENDED SPANS, PROVIDE STRUCTURAL CALCULATIONS.

DESIGN BUILD METAL STUD | SCALE: 1" = 1'-0" | 15




NOTE -
WHERE STAIRWAYS OCCUR INSIDE A BUILDING THE UPPER AND THE LOWER TREAD OF EACH STAIR SHALL BE MARKED BY A STRIP OF A CLEARLY CONTRASTING COLOR OF AT LEAST 2" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

WHERE STAIRWAYS OCCUR OUTSIDE A BUILDING THE UPPER APPROACH AN ALL TREADS SHALL BE MARKED BY A STRIP OF A CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE AND PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIP SHALL BE ACCEPTABLE.

STEEL CONCRETE PAN STAIR | SCALE: 1 1/2" = 1'-0" | 3




STEEL STAIR AT LANDING | SCALE: 1 1/2" = 1'-0" | 2




NOTE:
GUARD SHALL BE CAPABLE OF RESISTING A 20 PLF. HORIZONTAL LOAD PERPENDICULAR TO THE TOP RAIL

METAL GUARD | SCALE: 1" = 1'-0" | 1

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TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

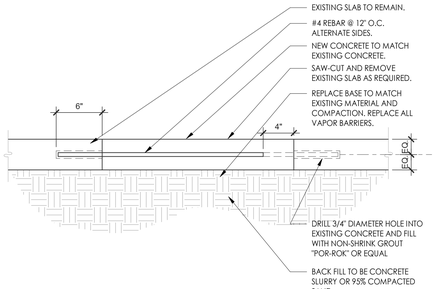
DETAILS

| DATE: | REMARKS |
|---|---|
| 04/15/2020 | PLAN CHECK SUBMITTAL SET |
| 1 | |

PA/PM: S. PAKBAZ
DRAWN BY.:
JOB NO.: -----.--

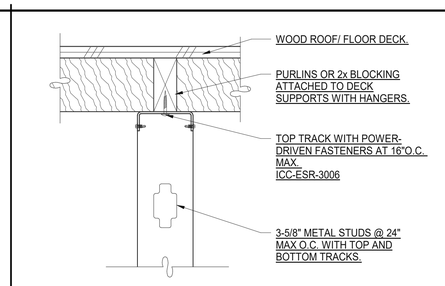
04/15/2021 PROGRESS SET

SHEET
A10-0

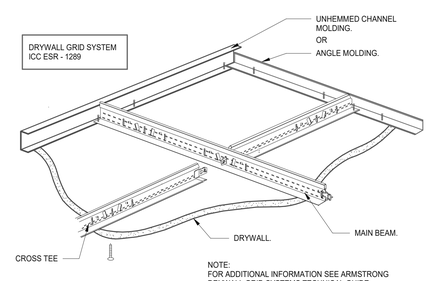



SAW-CUT

CONCRETE SLAB REPAIR | SCALE: 1 1/2" = 1'-0" | 21

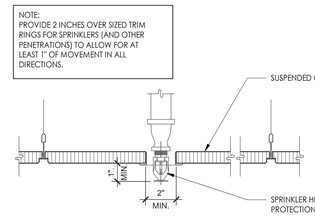



TOP OF WALL AT CEILINGS | SCALE: 3" = 1'-0" | 16




NOTE:
FOR ADDITIONAL INFORMATION SEE ARMSTRONG DRYWALL GRID SYSTEMS TECHNICAL GUIDE.

DRYWALL FURRING SYSTEM | SCALE: 3" = 1'-0" | 11



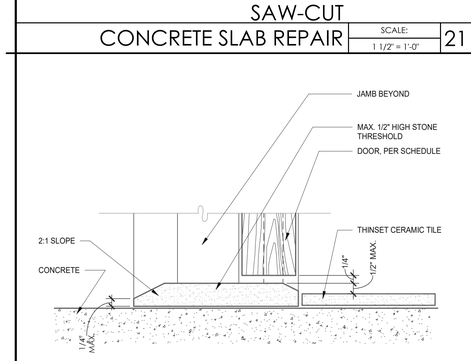

SPRINKLER
CEILING PENETRATION | SCALE: 3" = 1'-0" | 6

LOAD TESTS TO BE PERFORMED ON SUSPENSION WIRES PER SECTION 1.18:

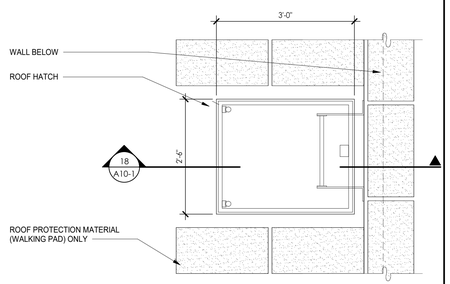
INSTALL ANCHORS PER APPLICABLE ICC-ES REPORT(S). IF NO APPLICABLE REPORT AVAILABLE THEN:

WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 200 LBS IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 440 LBS IN TENSION IN THE DIRECTION OF THE WIRE. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

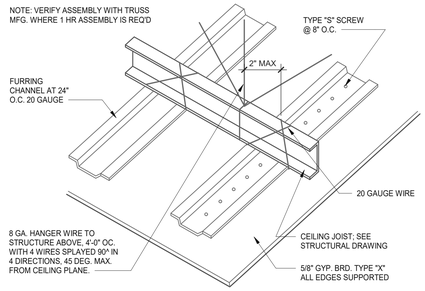
ANCHORS | SCALE: 1" = 1'-0" | 1




TYPICAL STONE THRESHOLD | SCALE: 6" = 1'-0" | 22

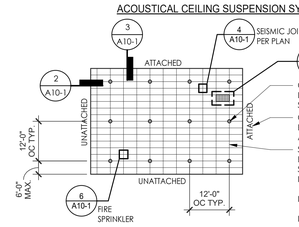



ROOF HATCH PLAN | SCALE: 3/4" = 1'-0" | 17




GYPSUM BOARD CEILING | SCALE: 3" = 1'-0" | 12

ACOUSTICAL CEILING SUSPENSION SYSTEM



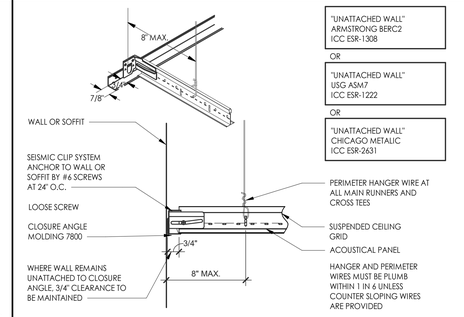

LATERAL FORCE BRACING AND SUSPENSION

LATERAL FORCE BRACING: A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. LATERAL FORCE BRACING SHALL BE 12 FEET ON CENTER (MAXIMUM) AND BEGIN NO FARTHER THAN 6 FEET FROM WALLS. LATERAL FORCE BRACING MEMBERS MUST BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZ. FORCES. BRACING WIRES MUST BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

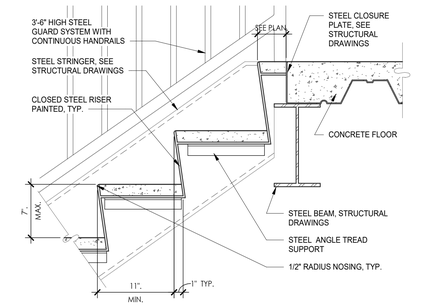
THE FOLLOWING INSTALLATION DETAILS ARE TO BE CONSIDERED TO BE COMPLYING WITH THE ABOVE REQUIREMENTS.
NOTES:
1. WHERE THE ROOF SYSTEM IS COMPOSED OF WOOD BEAMS, PURLINS, AND SUB-PURLINS, THE 2 X 4 SUB-PURLINS ARE NOT TO BE CONSIDERED AS STRUCTURAL MEMBERS SUPPORTING THE ROOF.
2. CEILING SUSPENSION SYSTEM SHALL COMPLY WITH 808 AND 2506.2.1. COMPONENTS SHALL BE ASTM "HEAVY DUTY" CLASS.
3. THE COMPRESSION STRUT SHALL BE VERTICAL, AND SHALL NOT HANG MORE THAN 1 IN 6 OUT-OF-PLUMB.

METAL STUDS:

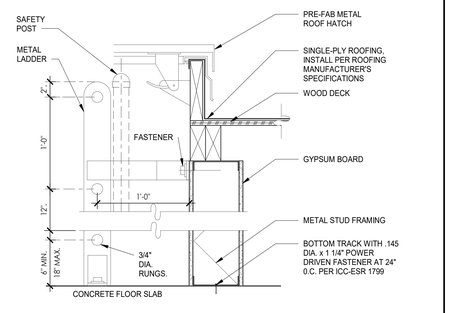
THE FOLLOWING SPANS ARE BASED UPON STUDS HAVING A 1-5/8" LEG WITH A 3/8" RETURN. DOUBLE STUDS ARE CONNECTED TOGETHER IN THE SHAPE OF A, WITH ONE #6 SHEET METAL SCREW AT 16" O.C., ATTACH THE METAL STUD TO THE T-BAR MAIN RUNNER WITH TWO #8 SCREWS. SEE DETAILS FOR ATTACHMENT TO STRUCTURE ABOVE.



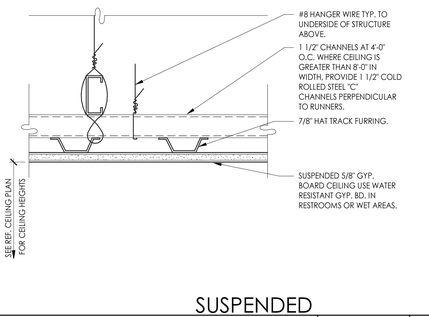

UNATTACHED CLOSURE ANGLE | SCALE: 3" = 1'-0" | 2



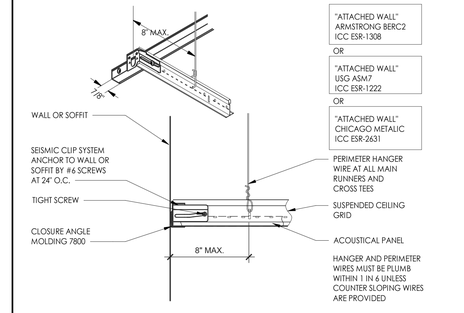

STEEL STAIR AT FLOOR LEVEL | SCALE: 1 1/2" = 1'-0" | 23



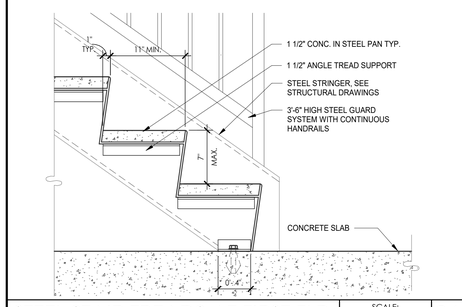

ROOF HATCH & LADDER | SCALE: 1 1/2" = 1'-0" | 18



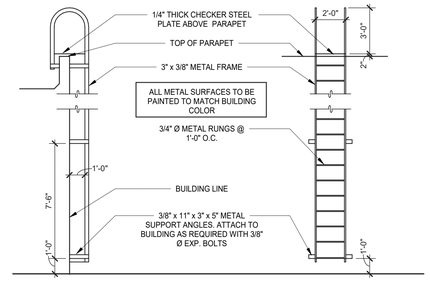

SUSPENDED GYP. BOARD CEILING | SCALE: 3" = 1'-0" | 13



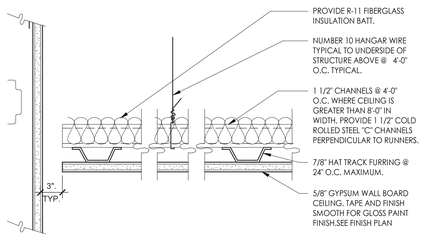

ATTACHED CLOSURE ANGLE | SCALE: 3" = 1'-0" | 3




STEEL STAIR TREADS AT FIRST FLR. | SCALE: 1 1/2" = 1'-0" | 24

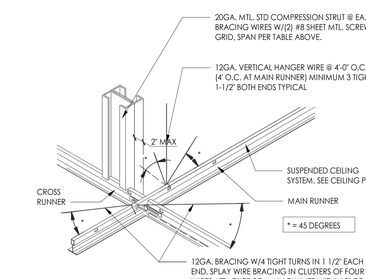


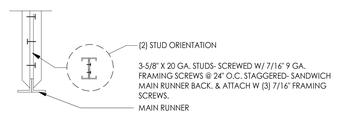

ROOF ACCESS LADDER | SCALE: 1/4" = 1'-0" | 19




NON-RATED
SUSP.GYP.BD.CLG. | SCALE: 3" = 1'-0" | 14

| STEEL STUDS | |
|---|---|
| 1-5/8 X 20 GA. | TO 12'-0" |
| DBL 1-5/8 X 20 GA | TO 15'-0" |
| 2-1/2" X 20 GA | TO 13'-6" |
| DBL 2-1/2" X 20 GA | TO 15'-0" |



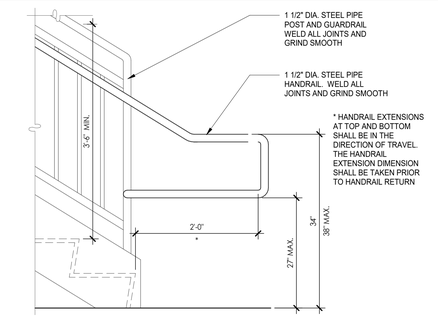

MANUFACTURED STRUTS:

PRE-MANUFACTURED STRUTS MAY ONLY BE USED IF ENGINEERING IS APPROVED BY THE BUILDING DEPARTMENT. GC TO SUBMIT FOR APPROVAL.

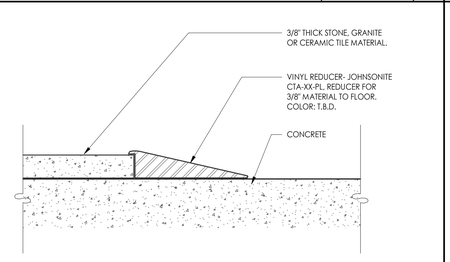
SUSPENDED CEILING | SCALE: 12" = 1'-0" | 10



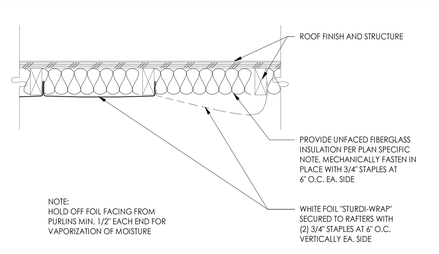

SEISMIC JOINT CLIP | SCALE: 1'2" = 1'-0" | 4



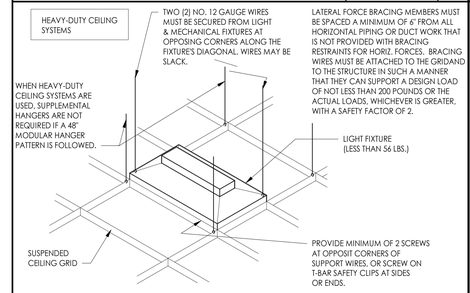

STEEL PIPE HANDRAIL | SCALE: 1" = 1'-0" | 25




TILE FLOORING TO CONCRETE | SCALE: 12" = 1'-0" | 20




ROOF INSULATION | SCALE: 1 1/2" = 1'-0" | 15




LIGHT FIXTURE @SUSPENDED CLNG. | SCALE: 1'2" = 1'-0" | 5

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DETAILS

| NO. | DATE | REMARKS |
|---|---|---|
| 1 | 04/15/2020 | PLAN CHECK SUBMITTAL SET |

04/15/2021 PROGRESS SET

| | |
|---|---|
| PA/PM: | S. PAKBAZ |
| DRAWN BY.: | |
| JOB NO.: | -.---.-- |

SHEET

A10-1



CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

## GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE EDITION 2019 AND OTHER APPLICABLE CODE REQUIREMENTS BY THE LOCAL CITY, COUNTY, AND AGENCIES HAVING JURISDICTION.
2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE EOR, THE ARCHITECT AND THE OWNER REPRESENTATIVE. PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER.
3. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE EOR AND THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL DIMENSIONS AND THE SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, THE OWNER SHALL BE NOTIFIED FOR CLARIFICATION.
5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE SCALE OVER SMALL.
7. TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION UNLESS SPECIFICALLY DETAILED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK & PER TYP DETAILS.
8. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE CITY OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE ABOVE.
9. FOR TRENCHES OR EXCAVATIONS (5) FIVE FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, THE CONTRACTOR IS TO OBTAIN THE NECESSARY PERMIT FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY, PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
10. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER AND OWER.
11. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT OR ENGINEER SO THAT PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER AND OWNER.
12. IN CASE OF DISCREPENCIES BETWEEN NOTES ON THIS SHEET & PROJECT SPECIFICATIONS, THE PROVIDED NOTES SHALL TAKE PRESEDENCE OVER SPECS.
13. CUTTING, BORING, SAW CUTTING OR DRILLING INTO (E) OR (NEW) STRUCTURAL ELEMENTS SHALL BE SPECIFICALLY DETAILED OR OTHERWISE APPROVED BY EOR.

## STRUCTURAL STEEL AND MISCELLANEOUS IRON

1. STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL CONFORM TO A.S.T.M. SPECIFICATION A572 GRADE "B". TUBE SECTIONS SHALL CONFORM TO A.S.T.M. SPECIFICATION A500 GRADE "B". BOLTS SHALL CONFORM TO A.S.T.M. SPECIFICATION A307, UNLESS NOTED OTHERWISE.
2. WELDING SHALL BE DONE IN CONFORMANCE WITH AWS-D1.1 & OTHER APPLICABLE CODES & STANDARDS USE ELECTRIC SHIELDED ARC PROCESS USING E-70XX ELECTRODES. ALL WELDS SHALL BE UNIFORM IN SIZE AND APPEARANCE, AND FREE OF PINHOLES, POROSITY, UNDERCUTTING, OR OTHER DEFECTS. ALL BUTT WELDS SHALL BE FULL PENETRATION.
3. WELDS SHALL BE DONE IN THE SHOP OF AN ICC APPROVED FABRICATOR UNLESS OTHERWISE NOTED ON PLANS. ALL FIELD WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS APPROVED BY THE BUILDING OFFICIAL.
4. CONTINUOUS INSPECTION BY AN APPROVED DEPUTY INSPECTOR IS REQUIRED FOR ALL ON SITE WELDING, U.N.O.
5. STRUCTURAL STEEL NOT ENCASED IN CONCRETE OR MASONRY SHALL BE SHOP PAINTED AS SPECIFIED. ANY ABRASIONS SHALL BE TOUCHED UP AFTER ERECTION.
6. FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF FABRICATION. FABRICATION SHALL CONFORM TO A.I.S.C. SPECIFICATION.
7. ALL FULL PENETRATION WELDS IN FIELD AND SHOP SHALL BE ULTRASONICALLY TESTED AND APPROVED.
8. CONTINUOUS INSPECTION IS REQUIRED FOR ALL HIGH STRENGTH BOLTING CONNECTIONS.
9. SPLICE MEMBERS ONLY WHERE INDICATED.
10. BOLT HOLES IN STEEL SHALL BE STANDARD HOLES, 1/16 INCH LARGER IN DIAMETER THAN NORMAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE. BOLT HOLES IN BASE PLATES MAY BE OVERSIZED PER AISC TABLE 14-2 IF WASHERS ARE PROVIDED IN ACCORDANCE WITH THIS TABLE.
11. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION AS INDICATED BELOW UNLESS NOTED OTHERWISE:

| | |
|---|---|
| ALL WIDE FLANGE AND WT SHAPES | A992, GRADE 50 |
| STEEL ANGLES AND CHANNELS | A36 U.N.O. |
| BEAM SHEAR PLATES, STIFFENER PLATES, ALL OTHER PLATES | A572, GRADE 50 U.N.O. |
| MACHINE BOLTS (USE ONLY WHERE INDICATED) | A30 |
| THREADED AND SMOOTH ROD | F1554, GR50 |
| NUTS FOR BOLTS AND MACHINE BOLTS | A563 |
| HARDENED WASHERS | F436 |
| UNHARDENED WASHERS | F844 |
| PLAIN WASHERS | ANSI B18.22.1 |
| STEEL PIPES | A53 GRADE B |
| HOLLOW STEEL SECTION | ASTM A 1085 (50KSI) OR B500 GR B (46 KSI) |

## FOOTINGS:

ALOWABLE BEARING CAPACITY=1,500 psf
INCREASE 1/3 FOR LOAD COMBOS INCLUDING EARTHQUICKE OR WIND

## LOCAL BUILDING REQUIREMENTS:

1. "NOTICE TO THE APPLICANT/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE THE CITY REQUIREMENTS FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES."
2. "NOTICE TO THE CONTRACTOR/BUILDER/SUB-CONTRACTOR/OWNER-BUILDER: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING OFFICIALS AND CITY SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPEIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES."
3. "THE SPECIAL INSPECTOR MUST BE ACCEPTABLE BY LOCAL BUILDING OFFICIALS & IN CONFORMANCE WITH CITY REQUIREMENTS, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION."
4. "THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY LOCAL BUILDING OFFICIALS & PER CITY REQUIREMENTS, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENTS."
5. "FABRICATOR MUST BE REGISTERED AND APPROVED BY LOCAL BUILDING OFFICIALS & IN ACCORDANCE WITH CITY REQUIREMENTS. SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION."
6. "FABRICATOR SHALL SUBMIT AN "APPLICATION TO PERFORM OFF-SITE FABRICATION" TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION."
7. "FABRICATOR SHALL SUBMIT A "CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION OF THE CITY PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES."
8. LABELING: "WHERE MATERIALS OR ASSEMBLIES ARE REQUIRED BY THE BUILDING CODE TO BE LABLED, SUCH MATERIALS AND ASSEMBLIES SHALL BE LABLED BY AN AGENCY APPROVED BY THE BUILDING OFFICALS IN ACCORDANCE WITH SECTION 1703. PRODUCTS AND MATERIALS TO BE LABELED SHALL BE TESTED, INSPECTED AND LABLED IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN SECTIONS 1703.5.1 THROUGH 1703.5.3. IDENTIFY ON PLANS, NAME AND ADDRESS OF THE TESTING/INSPECTION AGENCY. [SECTION 1703.5].

## CONCRETE AND REINFORCEMENT

1. ALL CEMENT SHALL CONFORM AT ASTM C-150, TYPE II OR V
2. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33.
3. AGGREGATE GRADATION FOR CONCRETE SHALL CONFORM TO SPECIFICATIONS SECTION 03 30 00. AGGREGATE FOR ELEMENT WITH 4 HOURS RATING SHALL BE SILICEOUS.
4. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY STRENGTH:
   - ALL STRUCTURAL CONCRETE SHALL HAVE **A MINIMUM STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.**
   - EXTERIOR CONCRETE WALKS, CURBS, ETC. AND MISC. CONCRETE - 2500 PSI.
5. LIGHTWEIGHT CONCRETE SHALL HAVE MAXIMUM DENSITY OF 115PCF.
6. CONCRETE DESIGN MIXES SHALL CONFORM TO THE STANDARD SPECIFICATIONS. MIX DESIGNS SHALL BE SIGNED BY A CALIFORNIA LICENSED ENGINEER & SUBMITTED FOR REVIEW & APPROVAL. SUPPORTING DATA SHALL BE PROVIDED PER CBC 1905A.3 OR 1905A.4. THE TEST DATA SHALL BE REPORTED BY AN INDEPENDANT TESTING AGENCY.
7. PLACING OF ALL CONCRETE SHALL BE INSPECTED BY THE JOB INSPECTOR TO VERIFY THAT REINFORCING STEEL IS SECURELY SUPPORTED IN PLACE DURING THE POUR. CONTRACTOR TO PROVIDE NECESSARY MEASURE TO PROTECT REINFORCING AND TENDONS DURING PLACEMENT USING TIES AND SUPPORTS. USE TREMY FOR PLACEMENT OF CONCRETE FOR POURS DEEPER THAN 6'-0". USE OF BUCKET OR DROPPING IS NOT ALLOWED TO AVOID SEGREGATION.
8. LOCATION OF CONSTRUCTION JOINTS OR POUR JOINTS SHALL BE AS SHOWN ON PLANS OR AS APPROVED BY THE ENGINEER OR THE ARCHITECT PRIOR TO POURING CONCRETE. SEE NOTE 19 BELOW.
9. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS ONLY SHALL BE USED TO SUPPORT REINFORCING OFF GRADE.
10. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR THEY MAY BE STRIPPED AFTER 3 DAYS AND THEN COVERED WITH BURLAP WHICH SHALL BE KEPT WET FOR AN ADDITIONAL 7 DAYS. IN LIEU OF BURLAP, CURING COMPOUNDS MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER. FORMS FOR CONCRETE COLUMNS SHALL BE LEFT IN PLACE FOR 3 DAYS. IF STRIPPED EARLY, THEN SHALL BE COVERED FOR ANOTHER 3 DAYS. OR BE PROTECTED BY CURRING COMPONDS CONTRACTOR SELECTS TO DEVIATE FROM THESE INSTRUCTIONS, ALL CRACKS AND OTHER DEFECTS SHALL BE PER EOR RECOMMENDATIONS IN CONTRACTORS EXPENSE.
11. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
12. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
13. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL COMPLY WITH CBC SECTION 1907A.7.1.
14. ALL CONCRETE SHALL BE VIBRATED IN PLACE DURING PLACING OF CONCRETE.
15. THE STRUCTURAL STEEL AND STEEL FORM WILL DEFLECT WHILE CONCRETE IS BEING PLACED ON IT. THIS WILL RESULT IN THE NEED TO ADJUST THE SCREEDS AFTER THE CONCRETE HAS BEEN PLACED TO PRODUCE A LEVEL CONCRETE SURFACE. ALSO, THERE WILL BE ADDITIONAL CONCRETE REQUIRED, WHICH IS TO BE ANTICIPATED, AND NO REQUEST FOR EXTRA COST WILL BE CONSIDERED.
16. NO STAKES, STEEL OR WOOD, SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE.
17. DRYPACK SHALL BE 1:3-1/2 PORTLAND CEMENT TO SAND WITH A MINIMUM 28 DAY STRENGTH OF 4500 PSI. OR SET GROUT BY AN APPROVED EOR.
18. NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 7000 PSI.
19. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO MIN 1/4" TO EXPOSE CLEAN, SOLIDLY EMBEDDED AGGREGATE. PER TYP. DETAILS PROVIDED IN THIS SET, CONSTRUCTION JOINTS SHALL BE PROVIDED TO LIMIT SHRINKAGE CRACKS. A MAX DISTANCE OF 150 FEET SHALL BE CONSIDERED IF NO CONSTRUCTION JOINTS IS CALLED ON PLANS. THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF CONSTRUCTION & CONTROL JOINT LOCATION IN SLABS, WALLS AND BEAMS.
20. TEMPERATURE AND SHRINKAGE REINFORCEMENT: SHALL HAVE A LAP OF THIRTY (30) BAR DIAMETERS, BUT NOT LESS THAN 18 IN. AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN FIVE (5) FEET APART.
21. REBAR GRADES: ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
   #3 & SMALLER BARS.....................................GRADE 40
   #4 & LARGER BARS......................................GRADE 60

22A. TYP. REBAR COVER: MINIMUM REBAR COVER FOR PRESTRESSED CONCRETE SHALL BE AS SHOWN IN THIS TABLE:

| EXPOSURE CONDITION | COVER | TOLERANCE (-) |
|---|---|---|
| CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: | 3" | 3/8 INCH |
| EXPOSED TO EARTH OR WEATHER: | | |
| NO. 5 AND SMALLER BARS | 1-1/2" | 1/4 INCH |
| NO. 6 AND LARGER BARS | 2" | 1/4 INCH |
| NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: | | |
| ROOF SLAB | 1" | 1/8 INCH |
| STRUCTURAL SLABS & WALLS | 1" | 1/8 INCH |
| BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS & SPIRALS) | 1-1/2" | 1/4 INCH |
| SLABS ON GRADE | 1-1/2" | 1/4 INCH |

## LIGHT GAUGE METAL FRAMING

**1. APPLICABLE STANDARDS:** CBC CHAPTER 22, DIVISION VII AND "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" OF AISI, LATEST EDITION. LIGHT MATERIALS SHALL BE AS FOLLOWS:
**43 MILS (18 GAUGE) AND LIGHTER (33 KSI):** GALVANIZED, ASTM A446, GRADE A.
**54 MILS (16 GAUGE) AND HEAVIER (50 KSI):** GALVANIZED, ASTM A446, GRADE D

**2. MANUFACTURER AND PROPERTIES:** MEMBER OF STEEL STUD MANUFACTURER'S ASSOCIATION ICC-ES EVALUATION REPORT NO. 3064P. PROVIDE STUDS, TRACKS AND JOISTS WITH MINIMUM EFFECTIVE SECTION PROPERTIES PER EVALUATION REPORT.

**3. MINIMUM GAUGE THICKNESS:** INDICATED PROPERTIES ARE BASED ON THE FOLLOWING THICKNESSES:
**12 GA.**– 0.1017 INCH, 97 MILS
**14 GA.**– 0.0713 INCH, 64 MILS
**16 GA.**– 0.0566 INCH, 54 MILS
**18 GA.**– 0.0451 INCH, 43 MILS
**20 GA.**– 0.0329 INCH, 33 MILS

**4. TRACK MATERIAL:** PROVIDE UNPUNCHED TRACK OF DIMENSIONS TO ENSURE PROPER FIT OF STUDS.

**5. LATERAL BRIDGIN FOR STUDS (SEE S02):** REQUIRED WHEN RIDGID WALL FINISH DOES NOT CONTINUE FULL HEIGHT OF EITHER OR BOTH SIDES OF STUDES. INSTALL HORIZONTAL STRAPS OR COLD-ROLLED CHANNELS AS SHOWN AND IN ACCORDANCE WITH SECTION D3 OF AISI SPECIFICATION.

**6. LATERAL BLOCKING FOR JOISTS (SEE S02):** JOISTS SHALL BE BRACED BY FULL DEPTH BLOCKING AT ALL POINTS OF SUPPORT. JOIST BLOCKING SHALL ALSO BE PROVIDED AT THE FOLLOWING LOCATIONS:
SPAN < 14 FEET — 1 ROW AT MID SPAN
SPAN < 20 FEET — 2 ROWS AT 1/3 POINTS
SPAN < 26 FEET — 3 ROWS AT ¼ POINTS

**7. STUD AND JOIST PUNCH-OUT LOCATIONS:** WEB PUNCH-OUTS SHALL NOT BE LOCATED CLOSER THAN TWICE THE MEMBER DEPTH FROM THE EDGE OF BEARING SUPPORT OR CONNECTING MEMBER.

**8. SECURING:** TRACKS. FASTEN WITH "SCREWS," PER PROPRIETARY ANCHORAGES AND FASTENERS SECTION OF GENERAL NOTES, UNLESS DETAILED OTHERWISE. SPLICES IN JOISTS AND AXIAL LOADED STUDS AND BRACES ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED.

**9. WELDING:** ANSI/AWS D1.3 AND CBC CHAPTER 22, DIVISION VII.
**A. WELDER CERTIFICATION:** GOVERNING CODE AUTHORITY.
**B. ELECTRODES:** E60XX AT 33 KSI MEMBERS, E70 XX AT 50 KSI MEMBERS.
**C. TOUGH-UP:** ZINC-RICH PAINT AT GALVANZED MEMBERS AND REGULAR PAINT AT CARBON SHEET STEEL.

## WOOD FRAMING

1. ALL SAWN LUMBER SHALL BE DOUGLAS FIR OR WESTERN LARCH, U.N.O.
2. GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WWPA OR WCLIB). WOOD GRADES ARE TO BE AS FOLLOWS U.N.O.:

| | |
|---|---|
| BEAMS | (SELECT STRUCT. OR BETTER) |
| HEADERS | SEE SCHEDULE (4/SD5.2) |
| POSTS AND TIMBERS | NO.1 |
| PLATES | NO.2 |
| STUDS @ NON-BEARING WALLS | NO.2 |
| STUDS @ BEARING/SHEAR WALLS NO.2 U.N.O. | SEE SCHEDULE (8/SD5.2) |
| RAFTERS AND ROOF JOISTS | NO.2 |
| FLOOR JOIST | NO.1 |
| SILL PLATES PRESSURE TREATED FOR MOISTURE RESISTANCE (SEE NOTE #23.) | NO.2 |
| TJI | NOT USED |
| ROOF OPEN WEB TRUSSES | SEE "DEFERRED ITEMS" |

3. WHERE WOOD IS IN CONTACT WITH CONCRETE OR MASONRY USE FOUNDATION REDWOOD OR DOUGLAS FIR PRESSURE TREATED FOR MOISTURE RESISTANCE. CORROSION RESISTANCE BOLTS ARE REQUIRED FOR "CHEMICALLY THREATED SILLS".
4. PLYWOOD SHALL BE DOUGLAS FIR CONFORMING TO U.S. PRODUCT STANDARDS PS 1-83, WITH EXTERIOR GLUE AND SHALL BE GRADE MARKED BY APA. PLYWOOD AT EXPOSED EAVES SHALL BE EXPOSURE I GRADE PLYWOOD. PLYWOOD SHALL BE STRUCTURAL- I FOR FLOOR DIAPHRAGMS & SHEAR WALLS. OSB PANELS MAY BE USED IF HAVE EQUIVALENT PROPERTIES.
   "Structural sawn lumber shall be identified by the grade mark of an approved lumber grading or inspection agency in accordance with DOC PS 20 or equivalent." (CBC 2303.1.1)
5. U.N.O. ALL DAMAGED OR DETERIORATED LUMBER SHALL BE REPLACED WITH EQUAL SECTION AND EQUAL OR BETTER GRADE AS SPECIFIED ON THESE DRAWINGS.
6. ALL BOLTS FOR WOOD CONNECTIONS SHALL BE A307, GRADE A. WHERE WOOD IS BOLTED TO STEEL, USE A LOCK WASHER UNDER THE NUT ON THE STEEL SIDE.
7. ALL BOLT HEADS AND NUTS THAT BEAR AGAINST THE FACE OF WOOD MEMBERS SHALL BE PROVIDED WITH METAL SQUARE WASHERS AS INDICATED ON PLANS.
8. ALL STUD WALLS SHALL HAVE FIRE BLOCKING AT 5'-0" O.C. MAXIMUM, VERTICAL UNLESS ALLOWED BY CODE.
9. BLOCKING SHALL BE INSTALLED AT THE TOP OF ALL BEARING AND SHEAR WALLS.
10. PROVIDE DOUBLE FLOOR JOISTS UNDER PARALLEL PARTITIONS.
11. PROVIDE 2X3 CROSS-BRIDGING OR 2X SOLID BLOCKING AT A MINIMUM OF 8'-0" O.C. FOR FLOOR JOISTS (CONTACT METAL BRIDGING OR EQUAL MAY BE USED).
12. HOLES AND NOTCHES IN STRUCTURAL MEMBERS FOR PIPES AND CONDUIT SHALL COMPLY WITH THE BUILDING CODE & PROVIDED TYP. DETAILS.
13. ALL BOLT HOLES SHALL BE DRILLED A MIN. OF 1/32" TO A MAX. OF 1/16" LARGER IN DIAMETER THAN THE NOMINAL SIZE OF BOLT USED.
14. EACH SHEET OF PLYWOOD SHALL HAVE 2' MIN. SHEET DIMENSION UNLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR BLOCKING.
15. THREADED PORTION OF LAG SCREWS SHALL BE TURNED NOT DRIVEN INTO THE PRE-DRILLED HOLE.
16. ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O.
17. IF GUN NAILING IS USED, REDUCE THE SPECIFIED NAIL SPACING BY 20% UNLESS THE HEADS DO NOT PENETRATE INTO THE SHT'G..
18. ALL NAILS SHALL BE GALVANIZED WHERE EXPOSED TO WEATHER.
19. EXCEPT WHERE TOE NAIL IS REQUIRED, NAILS SHALL BE DRIVEN PERPENDICULAR. PRE-DRILL FOR ALL NAILS 20d OR LARGER.
20. TJI, PARALLAM, AND TIMBER STRANDS SHALL BE ICC APPROVED PER SPECIFICATIONS. ALSO SEE SPECIAL INSPECTION & SHOP DRAWING NOTES ON THIS SHEET.
21. USE SIMPSON OR OTHER EQUIVALENT ICC APPROVED HARDWARE FOR ALL CONNECTION PER PLAN NOTES AND SPECIFICATIONS.
22. ROOF TRUSSES SHALL BE DESIGNED & STAMPED BY MANUFACTURE'S ENGINEER. SHOP DRAWING SHALL BE PREPARED PER NOTES ON THIS SHEET.
23. 1- "Structural sawn lumber shall be identified by the grade mark of an approved lumber grading or inspection agency in accordance with DOC PS 20 or equivalent." (CBC 2303.1.1)
   2- "Structural glue-laminated timbers shall be manufactured and identified as required in ANSI/AITC A 190.1 and ASTM D 3737." (CBC 2303.1.3)
   3- "Wood structural panels shall conform to the requirements for their type in DOC PS 1, DOC PS 2, or ANSI/APA PRP 210." (CBC 2303.1.4)
   4- "Nails and staples shall conform to the requirements of ASTM F 1667." (CBC 2303.6)
   5- "Floor and Roof sheathing shall have a min of span rating of 40/20. Single floor sheathing shall have a min span ratio of 20 o.c. (CBC 2304.7)
   6- Fasteners in contact with preservative-treated wood, or fire-retardant-treated wood used in exterior applications or wet/damp locations, shall be of hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CBC 2304.9.5.1)
24. EDGE OF SHEATHING PLYWOOD PANELS SHALL BE BLOCKED OR T&G AS SPECIFIED ON PLANS.

## MASONRY

1. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (F'M): 2,000 PSI TYPICAL UNLESS NOTED OTHERWISE.
2. VERIFYING SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (F'M): USE MASONRY PRISM TESTING METHOD UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT (STRUCTURAL ENGINEER). FULL ALLOWABLE STRESSES ARE USED IN DESIGN. SUBMIT MASONRY PRISM DATA FOR EACH TYPE AND COMPRESSIVE STRENGTH OF MASONRY REQUIRED, WITH A PROFESSIONAL ENGINEER'S SIGNATURE AND STATE OF CALIFORNIA SEAL, TO ARCHITECT (STRUCTURAL ENGINEER). COMPLIANCE WITH MINIMUM REQUIRED COMPRESSIVE STRENGTH SHALL BE BASED ON APPLICABLE CODE SECTION 2019 CBC 2105A.2
3. CONCRETE BLOCK: ASTM C90, MEDIUM WEIGHT, 2016 CBC CHAPTER 21A ATTAINING A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (F'm).
4. FACE BRICK: ASTM C216 AND 2019 CBC CHAPTER 21A
5. PORTLAND CEMENT FOR MORTAR AND GROUT: ASTM C150, TYPE I OR II. USE OF MASONRY CEMENT OR PLASTIC CEMENT IS NOT PERMITTED.
6. AGGREGATES FOR MORTAR AND GROUT:
   A. AGGREGATES FOR MORTAR: ASTM C144.
   B. AGGREGATES FOR GROUT: C404, COARSE TYPE.
7. MORTAR: ASTM C270, TYPE M. MIX IN PROPORTIONS ACCORDING TO 2019 CBC 2104A WITH A MINIMUM 28 DAYS STRENGTH OF 2,500 psi.
8. GROUT: ASTM C476, COARSE TYPE, ATTAINING A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (F'M). HOWEVER, IN NO CASE SHALL GROUT COMPRESSIVE STRENGTH BE LESS THAN 2,000 PSI AT 28 DAYS.
9. REINFORCING STEEL: REINFORCING STEEL SECTION OF GENERAL NOTES UNLESS INDICATED OTHERWISE.
10. COMPOSITE MASONRY WALL PENETRATION SUBMITTAL: SUBMIT FOR EACH WALL INDICATING SIZE AND LOCATION OF EACH WALL PENETRATION AND OPENING AS NECESSARY BY AFFECTED TRADES. SUBMIT TOGETHER WITH APPROPRIATE REINFORCING STEEL SHOP DRAWINGS. SUBMIT WRITTEN STATEMENT FROM SPECIAL INSPECTOR THAT NO ADDITIONAL PENETRATIONS OR OPENINGS WERE ADDED TO THOSE SHOWN IN PENETRATION SUBMITTAL.
11. REINFORCING STEEL SPLICES: LAP REINFORCING STEEL AT SPLICES A MINIMUM OF 48 BAR DIAMETERS, EXCEPT DOWELS IN FOOTINGS AT BASE OF WALLS SHALL SPLICE A MINIMUM OF 72 BAR DIAMETERS, UNLESS NOTED OTHERWISE. WHERE MINIMUM CLEAR DISTANCE BETWEEN BARS AT ADJACENT SPLICES IS 3 INCHES OR LESS, INCREASE LAP LENGTH 30 PERCENT UNLESS SPLICES ARE STAGGERED AT LEAST 24 BAR DIAMETERS.
12. DOWELS FOR WALLS, COLUMNS, PILASTERS, AND PIERS: MATCH SIZE AND SPACING OF VERTICAL REINFORCING STEEL, UNLESS NOTED OTHERWISE. SET DOWELS TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
   A. MINIMUM CLEARANCES BETWEEN REINFORCING AND OUTSIDE FACE OF MASONRY: 2 INCHES EXCEPT IN NO CASE SHALL CLEARANCE BE LESS THAN 2-1/2 BAR DIAMETERS
   B. MINIMUM CLEARANCE BETWEEN REINFORCING AND INSIDE FACE OF GROUT CELL: 1/2 INCH
   C. MINIMUM CLEARANCE DISTANCES BETWEEN PARALLEL REINFORCING: 1 INCH OR NOMINAL BAR DIAMETER, WHICHEVER IS LESS. INCREASE TO 1-1/2 INCHES OR 1-1/2 TIMES NOMINAL BAR DIAMETER, WHICHEVER IS LESS, AT COLUMNS, PILASTERS, AND PIERS ONLY.
14. PLACEMENT: SET COURSES IN RUNNING BOND PATTERN UNLESS INDICATED OTHERWISE. SET CELLS IN VERTICAL ALIGNMENT. PROVIDE FLUSH MORTAR JOINTS AT SURFACES TO RECEIVE WATERPROOFING OR DAMP-PROOFING.
15. GROUTING: GROUT SOLID ALL CELLS. MECHANICALLY VIBRATE GROUT IN CELLS.
   A. GROUT HEIGHT LIMITS: APPLICABLE CODE 2019 CBC SECTION 2104A
   B. HORIZONTAL CONSTRUCTION JOINTS: HOLD GROUT 1 1/2 INCHES BELOW TOP OF MASONRY UNIT IF WORK IS STOPPED ONE HOUR OR LONGER.
   B. GROUT COVER AROUND REINFORCING STEEL, ANCHOR BOLTS AND INSERTS PENETRATING MASONRY SHELL: 1 INCH MINIMUM.
16. HORIZONTAL BARS TERMINATING AT WALL ENDS AND OPENING JAMBS: EXTEND BARS TO WITHIN 2 INCHES OF END OF WALL AND PROVIDE STANDARD ACI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE.

## SPECIAL INSPECTIONS:

1. SPECIAL INSPECTION (PERIODIC OR CONTINUOUS), SHALL BE IN ACCORDANCE WITH CBC 2019, BY A REGISTERED DEPUTY BUILDING INSPECTOR APPROVED BY THE BUILDING OFFICIALS & LOCAL AUTHORITIES, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK. SEE PROJECT SPECIFICATIONS FOR OTHER SPECIFIC REQUIREMENTS.

A. ALL CONCRETE WORK INCLUDING, BUT NOT LIMITED TO, REINFORCEMENT PLACEMENT (PERIODIC) AND PLACEMENT OPERATIONS AND TAKING OF TEST SPECIMENS. (CONTINUOUS)
B. INSTALLATION OF EXPANSION & EPOXY ANCHORS (CONTINUOUS)& HOLDOWNS (PERIODIC)
C. ALL FOUNDATION WORK (PERIODIC)
D. MASONRY (CONTINUOUS)
E. BOLTED WOOD CONNECTIONS: DRAGSTRUTS & HOLDOWNS (PERIODIC)
F. REGISTERED INSPECTION ARE REQUIRED FOR THE FOLLOWING ITEMS:
   1. CONCRETE WITH Fc > 2500 PSI
   2. REINFORCING STEEL FOR CONCRETE
   3. MASONRY - CONTINUOUS
   4. EPOXY ANCHORS/DOWELS
      SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, CONCRETE STRENGTH > 2500 PSI
   5. FIELD WELDING
   6. WELDED STUDS
   7. HIGH STRENGTH BOLTS
   8. FIREPROOFING MATERIAL ON STEEL MEMBERS
G. PREFABRICATED WOOD ELEMENTS;
   ALL PREFABRICATED WOOD ELEMENTS INCLUDING PARALAM, TJI, TIMBERSTRAND & OPEN TRUSSES ETC.. SHALL BE PERIODICALLY INSPECTED AT THE FABRICATION SITE AND A PROOF OF INSPECTION OR CERTIFICATE SHALL BE SUBMITTED TO THE JOB INSPECTOR FOR THEIR REVIEW AND APPROVAL. JOB SITE INSPECTOR SHALL APPROVE THESE CERTIFICATE BEFORE IT CAN BE INSTALLED.
H. STRUCTURAL WOOD SEISMIC FORCE RESISTING SYSTEMS:
   1. CONTINUOUS SPECIAL INSPECTION SHALL BE REQUIRED DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.
   2. PERIODIC SPECIAL INSPECTION SHALL BE REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.

## ADHESIVE ANCHORS AND DOWELS

1. MANUFACTURER'S FIELD REPRESENTATIVE SHALL PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK; ONLY PROPERLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION.
2. INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICAL ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 318.
3. EMBEDMENT DEPTH FOR ANCHORS AND DOWELS IS AS FOLLOWS, UNLESS OTHERWISE NOTED THE TESTING LABORATORY WILL PERFORM TENSION TESTS ON 25% OF ANCHORS AND DOWELS TO THE SPECIFIED TEST LOADS:

| ROD DIA. OR BAR SIZE | EMBEDMENT | TEST LOAD | BASE MATERIAL |
|---|---|---|---|
| 3/8" | 4" | 3,000# | CONCRETE |
| 1/2" | 5" | 4,500# | CONCRETE |
| 5/8" | 6" | 6,500# | CONCRETE |
| 3/4" | 7" | 9,000# | CONCRETE |
| 7/8" | 9" | 11,000# | CONCRETE |
| 1" | 11" | 15,000# | CONCRETE |
| 1-1/4" | 14" | 20,000# | CONCRETE |
| #3 | 5" | 3,500# | CONCRETE |
| #4 | 6-1/2" | 5,500# | CONCRETE |
| #5 | 8" | 8,500# | CONCRETE |
| #6 | 10" | 12,000# | CONCRETE |
| #7 | 12" | 16,500# | CONCRETE |
| #8 | 14" | 12,500# | CONCRETE |
| #9 | 16" | 23,000# | CONCRETE |
| #10 | 19" | 26,000# | CONCRETE |

4. ANCHORS SHALL CONFIRM WITH ASTM A193 GRADE B7 THREADED RODS USING ASTM A 563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS U.N.O..
5. REPLACE ANCHORS AND DOWELS THAT FAIL DURING TESTING AND RETEST. IF MORE THAN 10% OF THE TESTED DOWELS AND ANCHORS FAIL TO ACHIEVE THE SPECIFIED TEST LOAD, TEST 100% OF THE DOWELS AND ANCHORS INSTALLED IN THE LAST 2 DAYS OF ANCHOR INSTALLATION.
6. CENTER BAR IN THE HOLE AND WEDGE TIGHT WITH WOODEN WEDGES TO HOLD IT IN PLACE UNTIL THE ADHESIVE SETS.
7. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUTS IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE. THE ENGINEER WILL DETERMINE A NEW LOCATION.
8. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLES ATTACHED WITH ADHESIVE ANCHORS.

## POST-INSTALLED ANCHOR BOLTS

ANCHOR BOLTS SHALL BE ONE OF THE FOLLOWING ACCEPTABLE PRODUCTS.

EPOXY/ADHESIVE ANCHORS
POWER AC-100 GOLD, ICC-ESR#3200 LARR 26049 (FOR MASONRY)
HILTI RE500-V3 ADHESIVE SYSTEM, ICC-ESR#2322 LARR 26028 (FOR CONC.)
SIMPSON EPOXY-TIE SET, ICC-ESR#2508 LARR 25744 (FOR CONC.)

EXPANSION-TYPE ANCHORS
HILTI KWIK BOLT-III ANCHOR, ICC-ESR#1385 LARR 25577M (FOR MASONRY)
HILTI KB-TZ ICC-ESR#1917 LARR 25701 (FOR CONC.)

EQUIVALENT PRODUCTS, WITH VAILD & CURRENT ICC REPORTS WHICH ALLOW APPLICATION FOR SEISMIC LOADING, ARE ACCEPTABLE.
FOR MIN. EMBEDMENT AND OTHER INFO., REFER TO DETAILS.
FOR REPRESSION AND INSTALLATION, REFER TO MANUFACTURES' RECOMMENDATIONS

## POWER ACTUATED FASTENERS

SHOT PINS MAY BE USED FOR SHEAR LOADS AND THEY MAY BE USED IN TENSION TO SUPPORT LOADS LESS THAN 100 POUNDS FOR MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT, ETC. ANY SHOT ANCHORS MUST HAVE ICBO APPROVAL FOR THE TYPE OF CONCRETE USED ON THE JOB. SHOT PINS MAY NOT BE USED IN CONCRETE CURBS OR CONCRETE EDGES. THE ALLOWABLE LOADS SHALL BE 100 POUNDS OR 80% OF ICBO APPROVED VALUES, WHICHEVER IS LESS. QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.0 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.

TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATION. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 N 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INTIAL TESTING REQUENCY. (THESE REQUIREMENTS ARE TO BE NOTED ON THE PLANS, OR IN THE SPECIFICATIONS.)

## SHOP DRAWINGS:

1. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED BY CONTRACTOR TO ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL, AND IF REUIRED TO THE BUILDING OFFICIALS FOR THEIR REVIEW AND APPROVAL, ALSO SEE SUBMITTALS AND DEFERRED APPROVAL. A SET OF APPROVED SHOP DRAWINGS SHALL BE MAINTAINED @ THE JOB SITE & PRESENTED TO THE INSPECTOR PRIOR TO PLACEMENT OF THE REINFORCEMENT.
2. WOOD OR STEEL PREFAB MANUFACTURER SHALL DEVELOP & SUBMIT DRAWINGS TO EOR FOR THEIR REVIEW AND APPROVAL, PRIOR TO FABRICATION OF PRODUCTS. PRE ENGINEERED TRUSSES & OTHER COMPONENTS SHALL HAVE CALCULATIONS THAT ARE SIGNED & STAMPED BY A PROFESSIONAL ENGINEER LISTED . IN CALIFORNIA.

## STRUCTURAL INDEX OF DRAWINGS


SN1.........GENERAL NOTES
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S4............SECOND FLOOR CEILING PLAN
S5............ROOF PLAN
SD1..........CONCRETE DETAILS
SD2..........MASONRY DETAILS
SD3..........MASONRY DETAILS
SD4........ STEEL DETAILS
SD5........ STEEL DETAILS
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SD8..........DETAILS
SD9..........HUNG UNIT/EQUIPMENT DETAILS
SD10........TANK ROOM


## STRUCTURAL ABBREVIATIONS

| | | | |
|---|---|---|---|
| # | NUMBER OR POUNDS | FRMG. | FRAMING |
| CL | CENTER LINE | FLR. | FLOOR |
| BM. | BEAM | MTL. | METAL |
| BEAM | BEAM | PL. | PLATE |
| DET. | DETAIL | REINF. | REINFORCING |
| CLR. | CLEAR | PLCS. | PLACES |
| CONT. | CONTINUOUS | P.H. | PENTHOUSE |
| CONC. | CONCRETE | O.C. | ON CENTER |
| COL. | COLUMN | NO. | NUMBER |
| BTWN. | BETWEEN | PSF | POUNDS PGR SQ.FT. |
| BOTT. | BOTTOM | N.T.S. | NOT TO SCALE |
| B.O.F. | BOTTOM OF FOOTING | N.I.C. | NOT IN CONTRACT |
| ANCH. | ANCHOR | SIM. | SIMILAR |
| A.B. | ANCHOR BOLT | SIMP. | SIMPSON |
| DWG. | DRAWING | SEPN. | SEPARATION |
| DIM. | DIMENSION | SECT. | SECTION |
| -3" | SLAB DEPRESSION | S.W.S. | SHEAR WALL SCHEDULE |
| EA. | EACH | S. | FOOTING STEP |
| FIN. | FINISH | MIN. | MINIMUM |
| EXP. | EXPANSION | STL. | STEEL |
| EXIST. | EXISTING | THK. | THICK |
| ELECTL. | ELECTRICAL | STIFF. | STIFFENER |
| EL | ELEVATION | T.O.W. | TOP OF WALL |
| E.W. | EACH WAY | T.O.S. | TOP OF STEEL |
| E.F. | EACH FACE | T.O. | TOP OF DRAWINGS |
| EXTR. | EXTERIOR | S.O.G. | SLAB ON GRADE |
| F.O.W. | FACE OF WALL | S.A.D. | SEE ARCHITECTURAL |
| F.O.S. | FACE OF STUD | SYM. | SYMMETRICAL |
| F.O.C. | FACE OF CONCRETE | SUPPT. | SUPPORT |
| FDN. | FOUNDATION | STD. | STANDARD |
| ELEV. | ELEVATOR OR ELEVATION | SQ. | SQUARE |
| GA. | GAUGE | V.O.S. | VERIFY ON SITE |
| JT. | JOINT | V.O.J. | VERIFY ON JOB |
| INTR. | INTERIOR | TYP. | TYPICAL |
| MFR. | MANUFACTURER | SPEC. | SPECIFICATION |
| MECHL. | MECHANICAL | U.N.O. | UNLESS NOTED OTHERWISE |
| MAX. | MAXIMUM | DWL. | DOWEL |
| M.B. | MACHINE BOLT | W/ | WITH |
| LT. WT. | LIGHTWEIGHT | WT. | WEIGHT |
| HORIZ. | HORIZONTAL | W.J. | WALL JOINT |
| H.S.B. | HIGH STRENGTH BOLT | VERT. | VERTICAL |
| GR. BM. | GRADE BEAM | | |
| FRT. | FIRE RETARDANT TREATED WOOD | | |

## DESIGN LOAD:

THE SEISMIC DESIGN CRITERIA:
LATITUDE: 34.0952042° N
LONGITUDE: −117.9835653° W
Ss=1.717g Fa=1.2 $S_{DS}$=1.373g
$S_1$=0.622g $F_V$=N/A $S_{D1}$=N/A
SITE CLASS "D-DEFAULT"
SEISMIC DESIGN CATEGORY "D"
$I_e$=1.0 RISK CATEGORY: II
SPECIAL REINFORCED MASONRY SHEAR WALL
R=5½ $\Omega_0$=2½ $C_D$=4

WIND CRITERIA:
BASIC WIND SPEED 95 MPH
EXPOSURE "C"

| SYSTEM | DESIGN LIVE LOADS (L.L.): |
|---|---|
| ROOF | 20.0 PSF |
| 2ND FLOOR | 100.0 PSF |

## EXISTING CONSTRUCTION:

EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS WAS OBTAINED FROM EXISTING DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ALL EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.

THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS, NOT INDICATED FOR REMOVAL, INTERFERE WITH THE NEW WORK, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, AND APPROVAL OBTAINED, BEFORE REMOVAL OF THE EXISTING MEMBERS.

THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW INSTALLATION OF THE NEW WORK. THE EXISTING CONSTRUCTION SHALL BE CONNECTED AND/OR EMBEDDED INTO THE NEW CONSTRUCTION AS SHOWN OR SPECIFIED.

THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING.

THE CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION DURING DEMOLITION AND CONSTRUCTION AS REQUIRED BY 2019 CBC CHAPTER 33 WHERE APPLICABLE.

TEMPORARY BARRICADE: CONTRACTOR TO OBTAIN TEMPORARY BARRICADE APPROVAL PRIOR TO CONSTRUCTION FROM THE FIRE DEPARTMENT.

## DEMOLITION GENERAL NOTES

1. REFER TO ARCH. SHEETS FOR DEMOLITION NOTES.
2. ALL (E) UTILITIES, DUCTS, CONDUITS, PIPES, SIGNS, JOINTS, ELEC PANELS & BOXES, DOOR, WINDOWS, CHAIN FRAME CEILINGS & OTHER ARCH'L. TREATMENTS SHALL BE REMOVED TEMPORARILY AS NEEDED & REINSTALLED TO IT'S ORIGINAL CONDITION & IN AGREEMENT WITH CODE STANDARDS. SUPPORTS & BRACES SHALL BE IN ACCORDANCE WITH SMACNA GUIDELINES. IT'S CONTRACTOR'S RESPONSIBILITY TO CLEARLY DOCUMENT (E) CONDITIONS & PREPARE SUBMITTAL PACKAGE(S) TO OBTAIN OWNERS & EOR'S APPROVALS PRIOR TO REINSTALLING OF THESE ITEMS.
3. DEMOLITION WORK SHALL BE FULLY COORDINATED WITH THE OWNER'S REPRESENTATIVES FOR SEQUENCE AND TIME FRAME.


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NIC PROJECT NO.1723.06


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REGISTERED PROFESSIONAL ENGINEER
TOURAJ EIMANI
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STRUCTURAL
STATE OF CALIFORNIA


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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

GENERAL NOTES

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

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SHEET
SN1

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## LEGEND

- 1 / SD — INDICATES REFERENCE DESIGNATION / INDICATES SHEET NUMBER
- = (N) 8" THK CMU WALLS, SEE SD2
- = (N) PREFAB WALL BY OTHERS
- = (E) CONCRETE WALL, V.O.S.
- = (E) FOOTING
- = (N) FOOTING
- (N) HSS = (N) TYP. COL. HSS 6X6X¼

## FOUNDATION NOTES

1. FOR GENERAL FOUNDATION NOTES, SEE SHEET SN1.
2. TOP OF CONCRETE FOOTING VARIES (MIN. 1'-6" BELOW F.F. OF SLAB ON GRADE) SEE ARCH. DWGS. FOR FINISHED FLOOR LEVEL.
3. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK, SEE ARCHITECTURAL DRAWINGS.
4. FOR OPENINGS, SLAB DEPRESSIONS, SLOPES, CURBS, DRAINS TRENCHES, SLAB EDGES AND WALL OVERALL DIMENSIONS AND LOCATIONS OF OPENINGS, CONTRACTOR SHALL FULLY COORDINATE WITH OTHER DISCIPLINES.
5. FOR WATERPROOFING & WATERSTOPS. FOR AREA'S RECEIVING MOISTURE BARRIER, SEE GEOTECH REPORT AND OTHER RELATED DISCIPLINES.
6. CONTINUE THE LONGITUDINAL BARS OF THE STRIP FOOTING THROUGH THE PAD FOOTING WHERE THEY INTERSECT
7. SLOPES ARE NOT SHOWN ON THIS PLAN. SEE NOTE #4.
8. PROVIDE CONTROL JOINTS FOR S.O.G. PER 14/SD1 AROUND COLUMNS PER 18/SD1
9. FOR TYP. FOOTING DETAILS THAT ARE NOT CALLED HERE, SEE SD2
10. CONTRACTOR TO PROVIDE SURVEY STAKES PRIOR TO FOUNDATION INSPECTION TO VERIFY LOT LINES. SEE CIVIL DWG'S,
11. THE BOTTOM ELEV OF FTGS. SHALL BE DETERMINED BY CONTRACTOR & APPROVED BY EOR & SOIL ENGINEER. FOR ADJACENT FOOTINGS HORIZONTAL DISTANCE BETWEEN THE TWO FOOTINGS SHALL BE AT LEAST TWICE THE VERTICAL DIFFERENCE BETWEEN BOTTOM OF FOOTINGS REFER TO MIN. EMBEDMENT INTO ROUGH PAD AS RECOMMENDED BY GEOTECH REPORT (SN1)
12. FOR POLE-TYPE FOOTINGS SEE DETAILS ON SD1.3. (NOT USED)
13. FOOTING PADS MAY NOT HAVE SHOWN ON SCALE. VERIFY DIMENSIONS PER SCHEDULE.
14. FILL EXCAVATIONS SHALL BE FILLED WITH "SLURRY" (2 SACK CEMENT) COORDINATE WITH GEOTECHNICAL ENGINEER/REPORT.
15. COLUMN LOCATIONS FOR POSTS ARE THE BEST ESTIMATE. CONTRACTOR SHALL COORDINATE WITH LATEST ARCH. DRAWINGS.

## FOOTING SCHEDULE

| TYPE | FOOTING SIZE(ft) | FOOTING THICKNES (in) | REINFORCEMENT AT BOTTOM OF FOOTING, TYP U.N.O. |
|---|---|---|---|
| F1 | 7'-0"X7'-0" | 15" | #5 @ 12" O.C. E.W. |
| F2 | 3'-6"X7'-0" | 15" | #5 @ 12" O.C. E.W. |
| F3 | 4'-0"X4'-0" | 15" | #5 @ 12" O.C. E.W. |
| F4 | PER PLAN | 18" | #5 @ 12" O.C. E.W. BOT<br>#5 @ 36" O.C. E.W. TOP |
| F5 | 7'-0"X7'-0" | 18" | #5 @ 12" O.C. E.W. BOT<br>#5 @ 36" O.C. E.W. TOP |
| CF-1 | 2'-6" WIDE | 18" | (4)-#5 BOT (2)-#5 TOP LONGITUDINAL<br>#4 @ 16" O.C. TRANSVERSE |

DEFAULT APPLICATION
F1 TYP. @ INTERIOR COLUMN, F2 TYP. @ EXT. COLUMN, F3 TYP. @ CORNER
F5 TYP. @ END OF SHEAR WALL
CF-1 EXTEND MIN. 2'-0" BEYOND THE END OF WALL

1. ALL EXISTING FRAMING MEMBERS THAT ARE BEING CUT/NOTCHED/TRIMMED SHALL BE PROPERLY SECURED BY SHORING.
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3. DIMENSIONS AND DISTANCES SHALL BE FIELD VERIFIED AND ADJUSTED, AS NEEDED.
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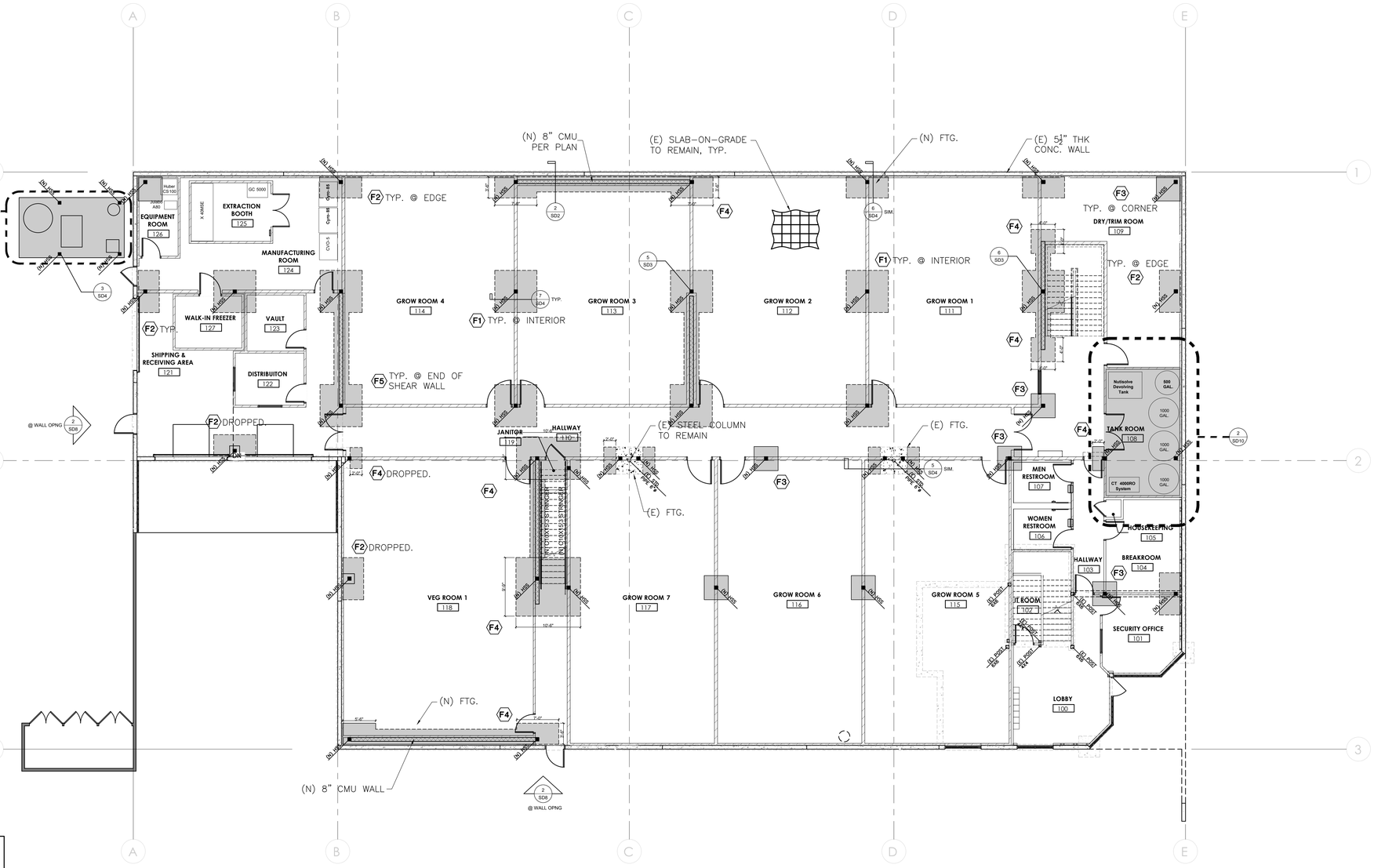
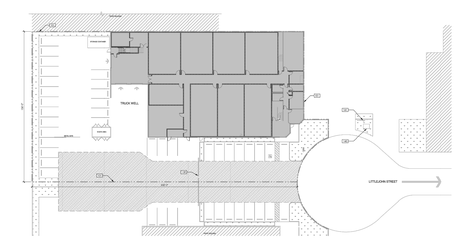
6. FOR METAL STUD PARTITION WALL DETAIL, SEE SHEET SD7




# FIRST FLOOR PLAN 1

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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

FIRST FLOOR PLAN

| DATE | REMARKS |
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SHEET
S1

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- = (N) 8" THK CMU WALLS, SEE SD2
- = (N) PREFAB WALL BY OTHERS
- = (E) CONCRETE WALL, V.O.S.
- (N) HSS — = (N) TYP. COL. HSS 6X6"X¼"
- = (E) 6"Ø STEEL COLUMN TO REMAIN, TYP.
- = (N) PREFAB CEILING PANEL BY OTHERS SEE DETAIL 12/SD9
- = (N) T-BAR CEILING BY ARCH
- = PREFAB CEILING HANGER BY MANUF. (@ MAX 7-FT) SEE 7/SD9 FOR TYP. TOP CONNECTION
- = (N) DEHUMIDIFIER, MAX WT = 350 LB SEE DETAIL 2/SD9

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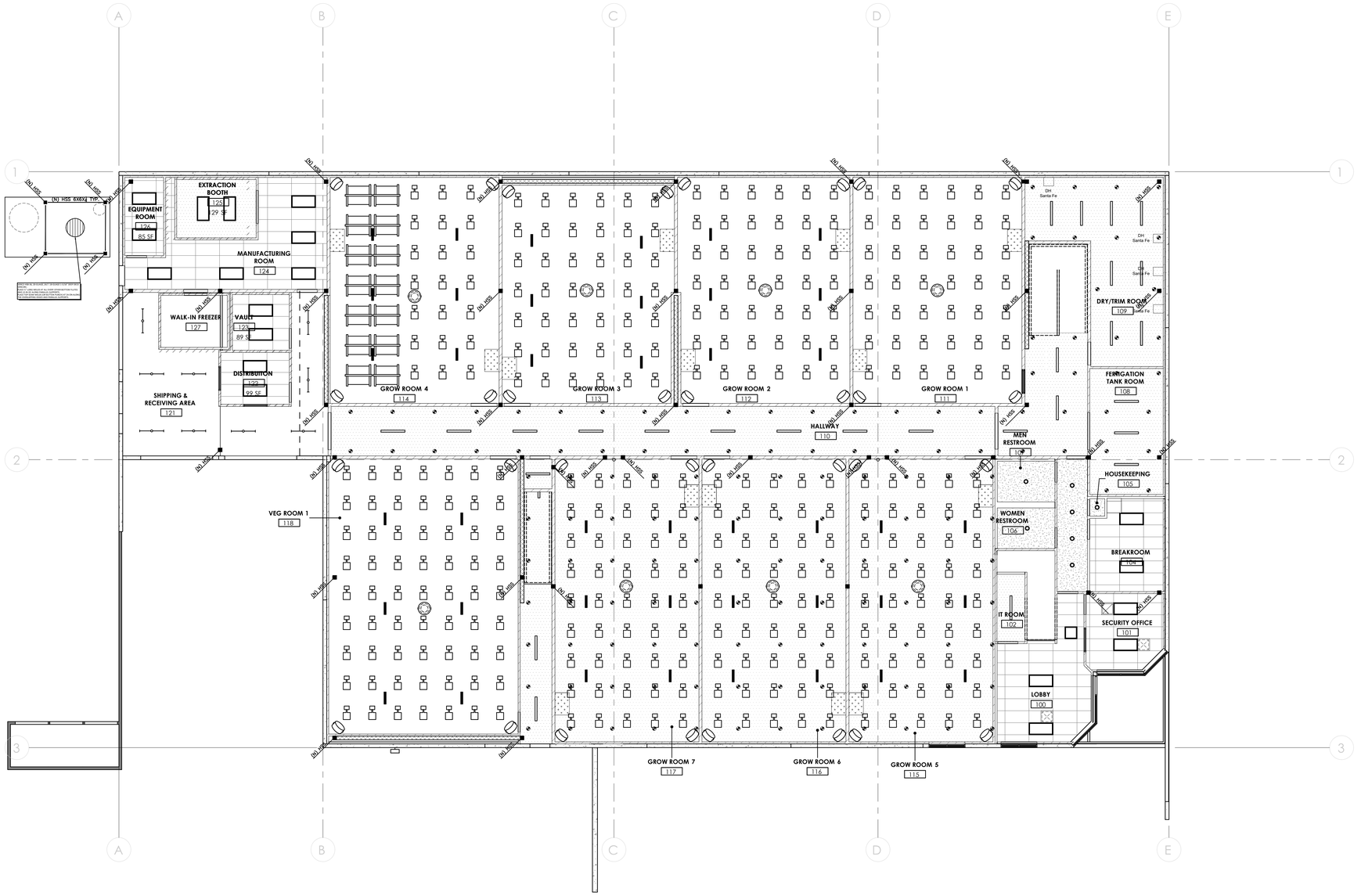
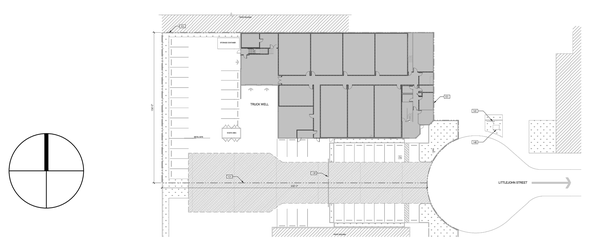
3. DIMENSIONS AND DISTANCES SHALL BE FIELD VERIFIED AND ADJUSTED, AS NEEDED.
4. FOR EXACT LOCATION OF WALLS, REFER TO ARCH DWGS.
5. THE EXACT SIZE/LOCATION & LAYOUT OF VARIOUS MECHANICAL EQUIPMENTS AND UNITS IS SUBJECT TO CHANGE. VERIFY/COORDINATE WITH THE LATEST MECHANICAL PLANS FOR ADDITIONAL INFO
6. FOR METAL STUD PARTITION WALL DETAIL, SEE SHEET SD7




FIRST FLOOR CEILING PLAN 1

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FIRST FLOOR CEILING PLAN

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SHEET
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- = (N) 8" THK CMU WALLS, SEE SD2
- = (N) PREFAB WALL BY OTHERS
- = (E) CONCRETE WALL, V.O.S.
- = INDICATES WALL ABOVE THIS LEVEL
- = INDICATES WALL BELOW THIS LEVEL
- = (N) BEAMS, TYP.
- = (N) TYP. COL. HSS 6X6"X¼"
- = (E) SLAB TO REMAIN
- = INDICATES FLOOR DEPRESSION
- = INDICATES BEGINNING/END OF SLOPE

## STEEL NOTES

PROVIDE MIN 1/2"Ø"x4" HEADED STUDS @ 12"O.C.
ON ALL BEAMS SUPPORTING CONCRETE, U.N.O.

- WF — = INDICATES NEW STEEL BEAM PER PLAN
- WF — = INDICATES NEW WIDE FLANGE BEAM IN WALL
- WT — = INDICATES ADDED TEE ON RAISED FLOOR USE WT6X13 U.N.O. SEE DETAILS ON SD3 SERIES
- LG — = INDICATES L6X6X¼ LEDGER SEE DETAILS ON SD3 SERIES
- = INDICATES TYPICAL BEAM TO BEAM CONNECTION, SEE DETAILS ON 1/SD3
- D1 — = INDICATES DIRECTION OF STEEL DECKING AND SLAB CONSTRUCTION, SEE SCHEDULE ON 1/SD4.1 (W3 w/TOPPING CONC, TOTAL SLAB THK = 7½")
- = INDICATES MOMENT CONNECTION, SEE DETAILS AND UNLESS NOTED OTHERWISE (NOT USED)
- = ORDINARY CONCENTRIC BRACE FRAME (NOT USED)
- = INDICATE DRAG CONNECTION SEE DETAIL FOR BEAM TO COLUMN CONNECTION
- = INDICATES ANGLE BRACE, SEE DETAIL (NOT USED)
- = INDICATES BROKEN BACK BEAM (NOT USED)
- = INDICATES BEAM TO BEAM MOMENT CONNECTION (NOT USED)
- = INDICATES BEAM TO COLUMN SEAT CONNECTION, SEE DETAIL (NOT USED)
- = INDICATES BRACED FLANGE CONNECTION, (NOT USED)
- A — = INDICATES EMBED PLATE TYPE, SEE EMBED PLATE SCHEDULE 8/SD2.1
- [ 42 ] — = INDICATES NUMBER OF NELSON STUDS REQUIRED IN LIEU OF MANDATORY SPACING OF STUDS, SEE STEEL DECK SCHEDULE. PLACE 1 ROW OF NELSON STUD @ 12" O.C. IF NOT CALLED
- C=½" — = INDICATES PROVIDE CAMBER AS SHOWN ON PLANS.
- (T3) — = INDICATES STRUCTURAL TEE ON BEAM, SEE DETAIL
- (∠) — = INDICATES LEDGER ANGLE, SEE DETAIL (TYP. 6X6X¼)
- (50) — = INDICATES PROVIDE A572 GRADE 50 STEEL.

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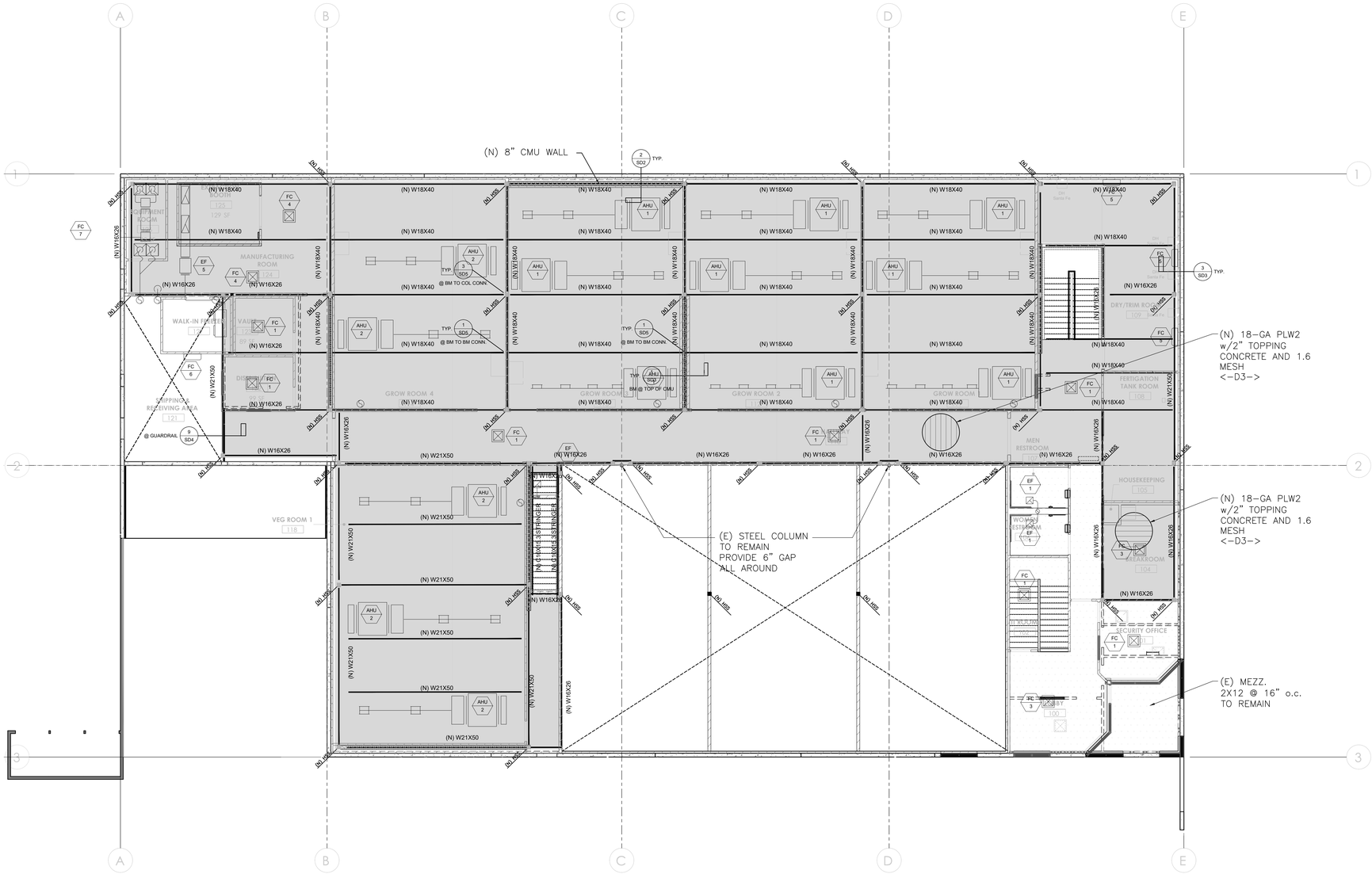
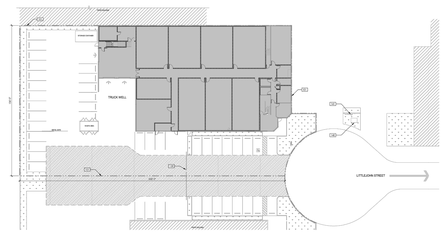
6. FOR METAL STUD PARTITION WALL DETAIL, SEE SHEET SD7




## SECOND FLOOR PLAN 1

### EQUIPMENT SCHEDULE

| GROUP | UNIT DESCRIPTION | OPERATIONAL WEIGHT (LBS) | DETAIL REF. |
|---|---|---|---|
| AHU 1 | HUNG FROM 2ND LEVEL | 500 | 2/SD9 |
| AHU 2 | HUNG FROM 2ND LEVEL | 550 | 2/SD9 |
| FC 7 | HUNG FROM 2ND LEVEL | 160 | 2/SD9 |
| FC 1-6 | HUNG FROM 2ND LEVEL | 30 | |

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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SECOND FLOOR PLAN

| DATE | REMARKS |
|---|---|
| 04/15/2020 | PLAN CHECK SUBMITTAL SET |

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SHEET
S3

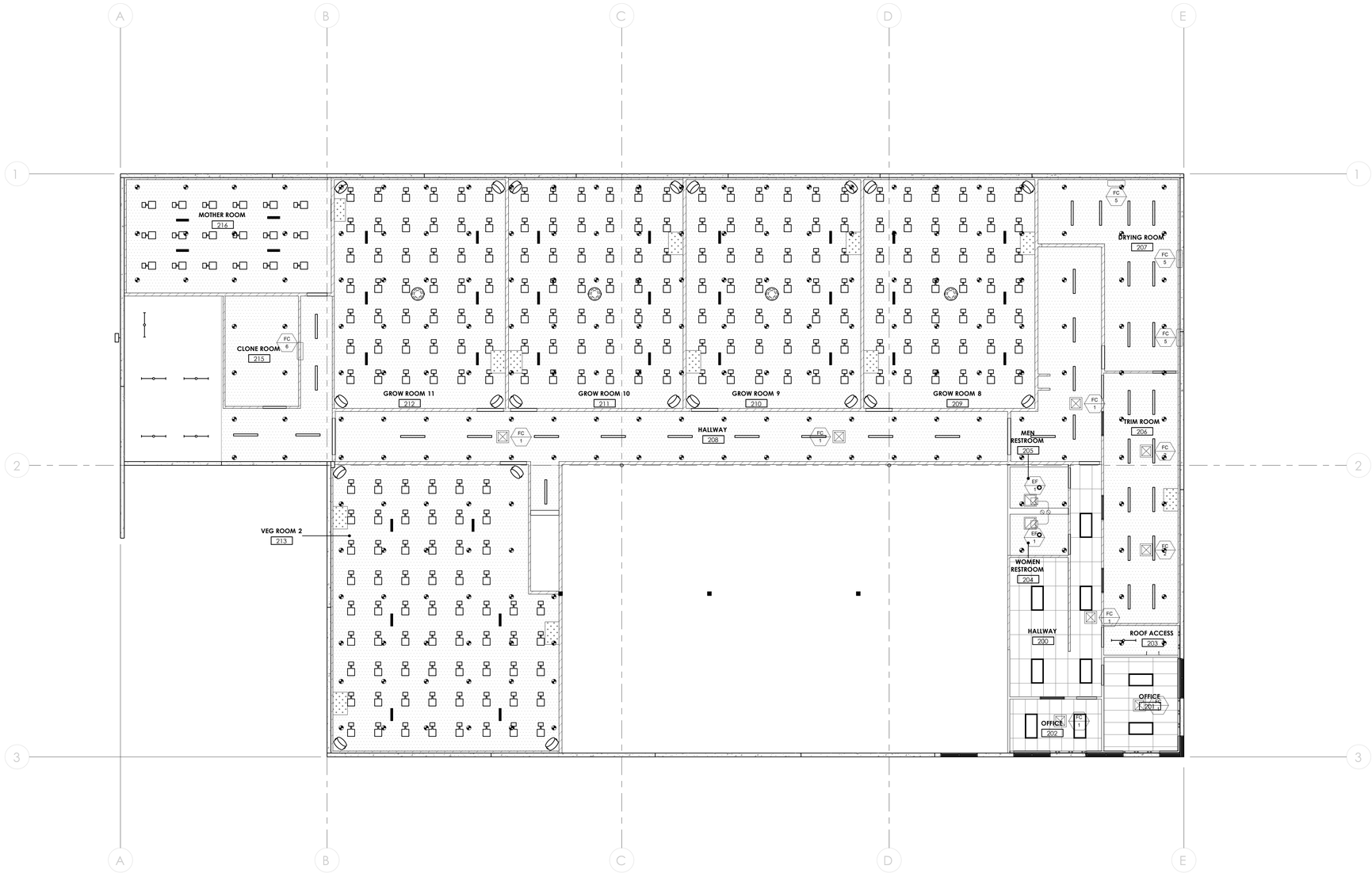
04/15/2020 PLAN CHECK SUBMITTAL SET

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

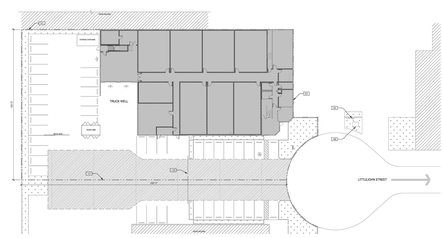
## LEGEND

- 1 / SD — INDICATES REFERENCE DESIGNATION / INDICATES SHEET NUMBER
- = (N) 8" THK CMU WALLS, SEE SD2
- = (N) PREFAB WALL BY OTHERS
- = (E) CONCRETE WALL, V.O.S.
- W8 HSS — = (N) TYP. COL. HSS 6X6"X¼"
- = (E) 6"Ø STEEL COLUMN TO REMAIN, TYP.
- = (N) PREFAB CEILING PANEL BY OTHERS SEE DETAIL 12/SD9
- = (N) T-BAR CEILING BY ARCH
- = PREFAB CEILING HANGER BY MANUF. (@ MAX 7-FT) SEE 20/SD9 FOR TYP. TOP CONNECTION
- = (N) DEHUMIDIFIER, MAX WT = 350 LB SEE DETAIL 14/SD9

1. ALL EXISTING FRAMING MEMBERS THAT ARE BEING CUT/NOTCHED/TRIMMED SHALL BE PROPERLY SECURED BY SHORING.
2. LOCATIONS AND SIZES OF ALL EXISTING STRUCTURAL ELEMENTS SHALL BE FIELD VERIFIED & ANY DISCREPANCIES BE REPORTED.
3. DIMENSIONS AND DISTANCES SHALL BE FIELD VERIFIED AND ADJUSTED, AS NEEDED.
4. FOR EXACT LOCATION OF WALLS, REFER TO ARCH DWGS.
5. THE EXACT SIZE/LOCATION & LAYOUT OF VARIOUS MECHANICAL EQUIPMENTS AND UNITS IS SUBJECT TO CHANGE. VERIFY/COORDINATE WITH THE LATEST MECHANICAL PLANS FOR ADDITIONAL INFO
6. FOR METAL STUD PARTITION WALL DETAIL, SEE SHEET SD7




## SECOND FLOOR CEILING PLAN 1



### EQUIPMENT SCHEDULE

| GROUP | UNIT DESCRIPTION | OPERATIONAL WEIGHT (LBS) | DETAIL REF. |
|---|---|---|---|
| FC 1-6 | HUNG FROM CEILING/ROOF | 30 | |
| | | | |
| | | | |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NIC PROJECT NO.1723.06


STAMP

REGISTERED PROFESSIONAL ENGINEER TOURAJ EIMANI No. S4302 Exp. 09/30/19 STRUCTURAL STATE OF CALIFORNIA


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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

SECOND FLOOR CEILING PLAN

| DATE | REMARKS |
|---|---|
| 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET S4

04/15/2020 PLAN CHECK SUBMITTAL SET


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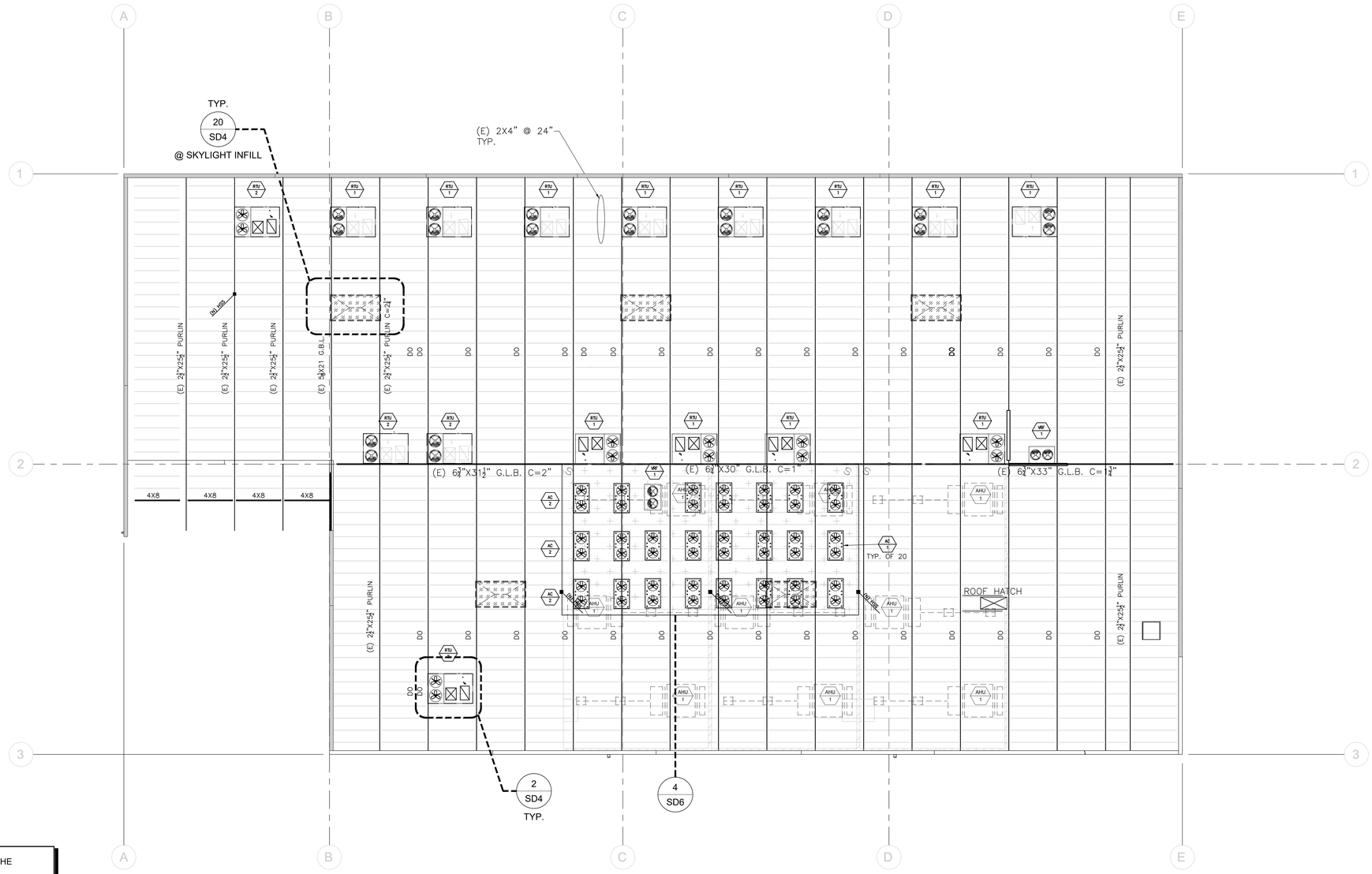



# ROOF PLAN 1

PRE-FAB WALL AND CEILING PANELS AT THE GROW ROOMS AND THEIR INTER CONNECTIONS AND ANCHORAGES ARE NOT A PART OF THIS PACKAGE AND WILL BE PROVIDED BY OTHERS.

FOR CONN. OF MECHANICAL UNITS REFER TO SHEET SD4, SD5, SD6, AND LATEST M.E.P. DRAWINGS

1. PRIOR TO DEMOLITION WORK, SEE GENERAL NOTES ON SN1. FOR EXACT EXTENT OF DEMOLITION WORK REFER TO THE ARCH. DWG'S.
2. ALL EXISTING FRAMING MEMBERS THAT ARE BEING CUT/NOTCHED/TRIMMED SHALL BE PROPERLY SECURED BY SHORING.

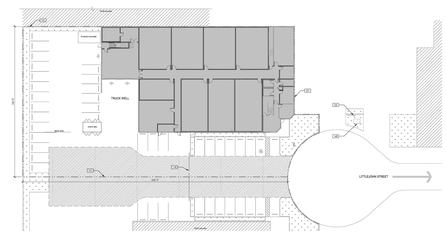
LOCATIONS AND SIZES OF ALL EXISTING STRUCTURAL ELEMENTS SHALL BE FIELD VERIFIED & ANY DISCREPANCIES BE REPORTED.

DIMENSIONS AND DISTANCES SHALL BE FIELD VERIFIED AND ADJUSTED, AS NEEDED.

## EQUIPMENT SCHEDULE

| GROUP | UNIT DESCRIPTION | OPERATIONAL WEIGHT (LBS) | DETAIL REF. |
|---|---|---|---|
| AHU 1 | HUNG FROM ROOF | 500 | 14/SD9 |
| AHU 2 | HUNG FROM ROOF | 550 | 14/SD9 |
| AC 1 | ON PLATFORM | 400 | 4/SD6 |
| AC 2 | ON PLATFORM | 500 | 4/SD6 |
| VRV 1 | ON PLATFORM/ROOF | 700 | 2/SD6<br>4/SD6 |
| RTU 1 | ON ROOF | 1,100 | 2/SD6 |
| RTU 2 | ON ROOF | 1,150 | 2/SD6 |

| SYMBOL | NOTES |
|---|---|
| | AREA BEYOND THE SCOPE OF THIS SUBMITTAL (NO STRUCTURAL WORK IS REQUIRED) |
| | (N) INFILL WITHIN (E) SKYLIGHT, SEE 20/SD4 |
| | (N) ELEVATED PLATFORM |
| | (N) HSS 6X6X3/8 |



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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

ROOF PLAN

| DATE | REMARKS |
|---|---|
| 04/15/2020 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

04/15/2020 PLAN CHECK SUBMITTAL SET

SHEET
S5

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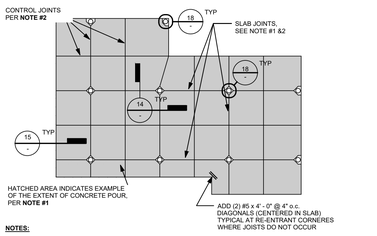
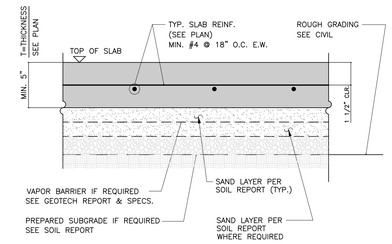



**NOTES:**

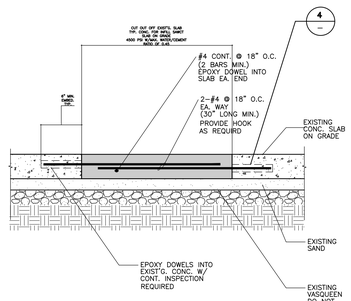
1. AREA OF CONCRETE POURS TO BE DETERMINED BY THE CONTRACTOR. SUBMIT CONSTRUCTION JOINT LAYOUT PRIOR TO POURING SLABS. PER GENERAL NOTES. PROVIDE CONSTRUCTION JOINTS SURROUNDING THE AREA OF EACH POUR, UNLESS DETAILED OTHERWISE. ALLOW 24 HOURS MINIMUM BEFORE CASTING SLABS AT ADJACENT AREAS. MAXIUMN LENGTH TO WIDTH RATI 2:1.
2. SAWCUT WEAKENED PLANE JOINT AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF PERSONNEL, AND SAW WITHOUT AFFECTING FINAL FINISH, BUT NO LATER THAN 12 HOURS AFTER POUR. LOCATE WEAKENED PLANE JOINTS NO GREATER THAN **36 TIMES** THE SLAB THICKNESS IN BOTH DIRECTION, UNLESS NOTED OTHERWISE. MAXIUMN LENGTH TO WIDTH RATI 2:1.
3. REFER TO 7/- FOR DETAILS



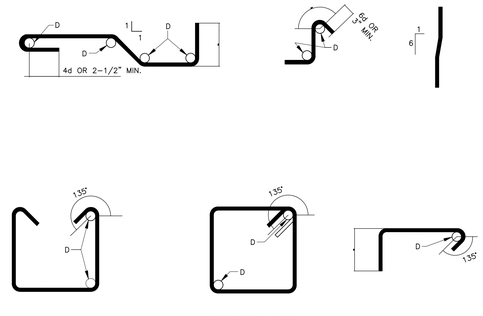

NOTE
SEE SOIL REPORT FOR PREPARATION OF SUBGRADE,& OTHER DETAILS COMPACTION AND FLOOR SLAB SUPPORT. SOME OF LAYES SHOWN MAY NOT BE APPLICABLE/REUIRED.

## TYPICAL SLAB-ON-GRADE

13




9




**REINFORCING BARS**

| BAR | D |
|---|---|
| #3 | 1-1/2" |
| #4 | 2" |
| #5 | 1-1/2" |
| #6 - #8 | 6d |

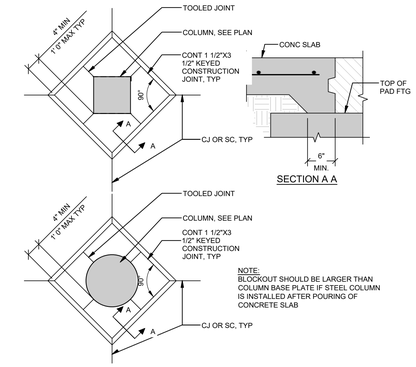
**OFFSET**
(3" MAX. IN COLUMN VERT. REINF.)

| SIZE | D |
|---|---|
| #3 | 1-1/2" |
| #4 | 2" |
| #5 | 1-1/2" |

**STIRRUP AND DETAILS**
D = BAR DIAMETER

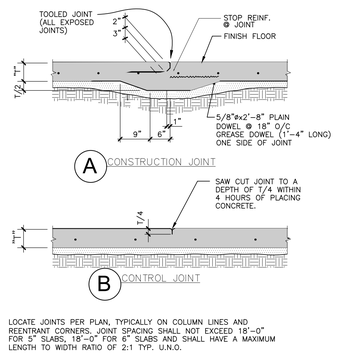
## BAR BENDING AND STIRRUP

1




NOTE:
BLOCKOUT SHOULD BE LARGER THAN COLUMN BASE PLATE IF STEEL COLUMN IS INSTALLED AFTER POURING OF CONCRETE SLAB

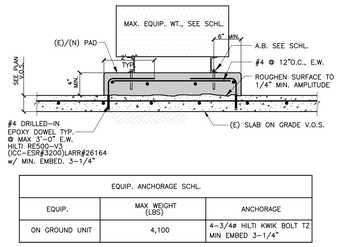
18




LOCATE JOINTS PER PLAN, TYPICALLY ON COLUMN LINES AND REENTRANT CORNERS. JOINT SPACING SHALL NOT EXCEED 18'-0" FOR 5" SLABS, 18'-0" FOR 6" SLABS AND SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 2:1 TYP. U.N.O.

## TYPICAL SLAB JOINT

14

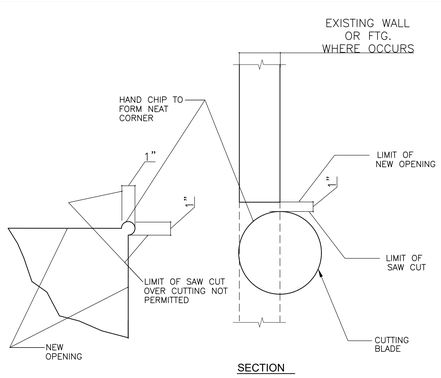



| EQUIP. ANCHORAGE SCHL. | | |
|---|---|---|
| EQUIP. | MAX WEIGHT (LBS) | ANCHORAGE |
| ON GROUND UNIT | 4,100 | 4-3/4ø HILTI KWIK BOLT TZ MIN EMBED 3-1/4" |

NOTE:
1. SEE MECH./ELEC. DWGS. FOR HEIGHT, SIZE, CHAMFERS & LOCATION OF CONC. PADS.
2. FOR EXACT SIZE OF EQUIP., REFER TO MECH./ELEC. DWG.
3. COORDINATE WITH A/M/E/P TO DETERMINE MIN. EXTENT OF PAD.

## HOUSEKEEPING PAD & ANCHORAGE

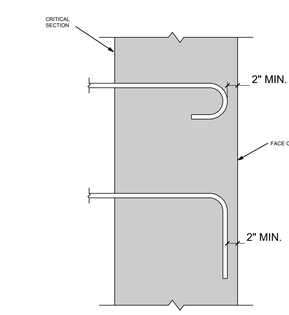
19




SECTION

## TYPICAL SAWCUT DETAIL

15




## TYPICAL EPOXY ANCHOR DETAIL

16

("Class B" Tension Lap Splice Schedule ) Type 1 - 1" MIN COVER & 2"MIN CLEAR SPACING

| Normal weight concrete f'c psi | Splice or Development Lenth (inches) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | #3 | | #4 | | #5 | | #6 | | #7 | | #8 | | #9 | | #10 | | #11 | | #14 | |
| | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical |
| 3000 | 17 | 16 | 25 | 18 | 38 | 30 | 55 | 42 | 74 | 57 | 94 | 72 | 113 | 87 | 138 | 107 | 163 | 125 | NA | NA |
| 4000 | 15 | 16 | 21 | 17 | 33 | 26 | 47 | 36 | 65 | 49 | 81 | 62 | 99 | 75 | 120 | 92 | 140 | 108 | NA | NA |
| 4500 | 16 | 16 | 20 | 16 | 31 | 23 | 44 | 35 | 61 | 47 | 77 | 59 | 92 | 72 | 113 | 87 | 133 | 103 | NA | NA |
| 5000 | 16 | 16 | 20 | 16 | 30 | 23 | 43 | 33 | 59 | 44 | 73 | 56 | 88 | 68 | 107 | 82 | 126 | 98 | NA | NA |
| | Development "Ld" Schedule | | | | | | | | | | | | | | | | | | | |
| 3000 | 33 | 32 | 39 | 14 | 29 | 23 | 42 | 32 | 57 | 44 | 72 | 55 | 87 | 67 | 106 | 82 | 125 | 96 | 166 | 128 |
| 4000 | 32 | 32 | 36 | 13 | 25 | 20 | 36 | 28 | 50 | 38 | 62 | 48 | 76 | 58 | 92 | 71 | 108 | 83 | 144 | 111 |
| 4500 | 32 | 32 | 35 | 12 | 24 | 18 | 34 | 27 | 47 | 36 | 59 | 45 | 71 | 55 | 87 | 67 | 102 | 79 | 136 | 105 |
| 5000 | 32 | 32 | 35 | 12 | 23 | 18 | 33 | 25 | 45 | 34 | 56 | 43 | 68 | 52 | 82 | 63 | 97 | 75 | 129 | 99 |

("Class B" Tension Lap Splice Schedule ) Type 2 - 1.5" MIN COVER & 3"MIN CLEAR SPACING

| Normal weight concrete f'c psi | Splice or Development Lenth (inches) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | #3 | | #4 | | #5 | | #6 | | #7 | | #8 | | #9 | | #10 | | #11 | | #14 | |
| | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical |
| 3000 | | | | | 33 | 25 | 40 | 31 | 56 | 43 | 70 | 55 | 86 | 66 | 105 | 82 | 126 | 98 | NA | NA |
| 4000 | | | | | 27 | 22 | 35 | 27 | 48 | 38 | 61 | 47 | 75 | 57 | 91 | 70 | 109 | 85 | NA | NA |
| 4500 | | | | | 26 | 21 | 33 | 26 | 46 | 35 | 57 | 44 | 70 | 55 | 86 | 66 | 103 | 79 | NA | NA |
| 5000 | | | | | 25 | 20 | 31 | 25 | 43 | 34 | 55 | 42 | 68 | 52 | 82 | 64 | 98 | 75 | NA | NA |
| | Development "Ld" Schedule | | | | | | | | | | | | | | | | | | | |
| 3000 | | | | | 25 | 19 | 31 | 24 | 43 | 33 | 54 | 42 | 66 | 51 | 81 | 63 | 97 | 75 | 131 | 101 |
| 4000 | | | | | 21 | 17 | 27 | 21 | 37 | 29 | 47 | 36 | 58 | 44 | 70 | 54 | 84 | 65 | 113 | 87 |
| 4500 | | | | | 20 | 16 | 25 | 20 | 35 | 27 | 44 | 34 | 54 | 42 | 66 | 51 | 79 | 61 | 107 | 82 |
| 5000 | | | | | 19 | 15 | 24 | 19 | 33 | 26 | 42 | 32 | 52 | 40 | 63 | 49 | 75 | 58 | 102 | 78 |

("Class B" Tension Lap Splice Schedule ) Type 3 - 2" MIN COVER & 4"MIN CLEAR SPACING

| Normal weight concrete f'c psi | Splice or Development Lenth (inches) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | #3 | | #4 | | #5 | | #6 | | #7 | | #8 | | #9 | | #10 | | #11 | | #14 | |
| | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical |
| 3000 | | | | | | | | | 49 | 38 | 56 | 43 | 70 | 53 | 86 | 66 | 103 | 79 | NA | NA |
| 4000 | | | | | | | | | 43 | 33 | 49 | 38 | 60 | 47 | 74 | 57 | 88 | 69 | NA | NA |
| 4500 | | | | | | | | | 40 | 31 | 46 | 35 | 57 | 44 | 70 | 55 | 85 | 65 | NA | NA |
| 5000 | | | | | | | | | 38 | 30 | 44 | 34 | 55 | 42 | 66 | 51 | 79 | 61 | NA | NA |
| | Development "Ld" Schedule | | | | | | | | | | | | | | | | | | | |
| 3000 | | | | | | | | | 38 | 29 | 43 | 33 | 54 | 41 | 66 | 51 | 79 | 61 | 108 | 83 |
| 4000 | | | | | | | | | 33 | 25 | 37 | 29 | 46 | 36 | 57 | 44 | 68 | 53 | 94 | 72 |
| 4500 | | | | | | | | | 31 | 24 | 35 | 27 | 44 | 34 | 54 | 42 | 65 | 50 | 88 | 68 |
| 5000 | | | | | | | | | 29 | 23 | 34 | 26 | 42 | 32 | 51 | 39 | 63 | 47 | 84 | 65 |

("Class B" Tension Lap Splice Schedule ) Type 4 - 2" MIN COVER & 4"MIN CLEAR SPACING & WITHIN TIES OR STIRRUPS @ 6" MAX

| Normal weight concrete f'c psi | Splice or Development Lenth (inches) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | #3 | | #4 | | #5 | | #6 | | #7 | | #8 | | #9 | | #10 | | #11 | | #14 | |
| | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical | Horizontal | Vertical |
| 3000 | | | | | | | | | | | | | 64 | 49 | 72 | 55 | 82 | 64 | NA | NA |
| 4000 | | | | | | | | | | | | | 55 | 43 | 61 | 48 | 72 | 55 | NA | NA |
| 4500 | | | | | | | | | | | | | 52 | 40 | 59 | 46 | 68 | 52 | NA | NA |
| 5000 | | | | | | | | | | | | | 49 | 38 | 56 | 43 | 64 | 49 | NA | NA |
| | Development "Ld" Schedule | | | | | | | | | | | | | | | | | | | |
| 3000 | | | | | | | | | | | | | 49 | 38 | 55 | 42 | 63 | 49 | 88 | 68 |
| 4000 | | | | | | | | | | | | | 42 | 33 | 47 | 37 | 55 | 42 | 76 | 59 |
| 4500 | | | | | | | | | | | | | 40 | 31 | 45 | 35 | 52 | 40 | 72 | 55 |
| 5000 | | | | | | | | | | | | | 38 | 29 | 43 | 33 | 49 | 38 | 68 | 52 |

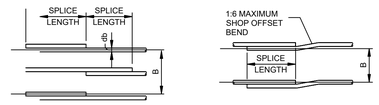


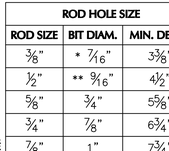

DIAGRAM at STAGGERED SPLICES

DIAGRAM at NON-STAGGERED SPLICES

NOTES:
ALL SPLICES SHALL BE CLASS B SPLICES UNLESS INDICATED OTHERWISE. DEVELOPMENT Ld TO BE USED WHERE SPECIFICALLY INDICATED.
SCHEDULE APPLIES TO UNCOATED GRADE 60 BARS IN NORMAL WEIGHT CONCRETE.
TOP BARS (INDICATED "T" IN SCHEDULE) ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
BOTTOM BARS (INDICATED "B" IN SCHEDULE) ARE ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW HORIZONTAL BARS.
FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.3.
FOR FOUR-BAR BUNDLES WHERE 2 BARS LAP WITH 2 OTHER BARS MULTIPLY LENGTHS IN SCHEDULE BY 1.33 (INDIVIDUAL BARS WITHIN A BUNDLE SHALL NOT OVERLAP).
HOOKED BAR DEVELOPMENT LENGTHS (ldh) SPECIFICALLY INDICATED ON DRAWINGS (PLANS, ELEV., ETC.) SHALL GOVEN.
LENGTHS APPLY TO GRADE 60 REBAR, IN NORMAL WEIGHT CONCRETE.

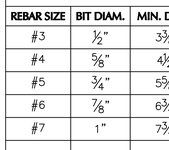
LEGEND
A - CLEAR EDGE DISTANCE
B - CENTER TO CENTER SPACING OF SPLICED OR LAPPED BARS (SEE GENERAL NOTES FOR MINIMUM CLEAR SPACING)
db - BAR DIAMETER

TYPE 1



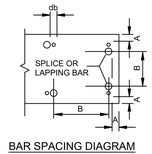

BAR SPACING DIAGRAM

TYPE 2



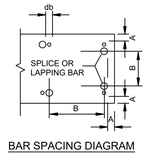

BAR SPACING DIAGRAM

TYPE 3




BAR SPACING DIAGRAM

TYPE 4




BAR SPACING DIAGRAM

3

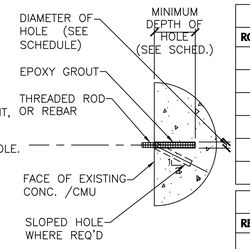
## PROCEDURE:

1. EPOXY SHALL NOT BE USED UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS OR WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
2. THREADED ROD OR DOWELS EMBEDDED IN EPOXY SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
3. CORRECT IMPLEMENTATION OF THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE VERIFIED BY A SPECIAL INSPECTOR.
4. ONLY NON-REBAR-CUTTING DRILL BITS SHALL BE USED TO DRILL HOLES IN EXISTING CONCRETE AND/OR CMU.
5. THREADED ROD OR DOWEL EMBEDMENT SHALL BE VERIFIED AND DOCUMENTED BY A SPECIAL INSPECTOR
6. EPOXY SHALL BE:

| EPOXY IN CONCRETE | |
|---|---|
| EPOXY | REPORT # |
| HILTI HIT-HY 200 | ICC ESR-3187 |
| SIMPSON SET-XP | ICC ESR-2508 |
| HILTI HIT 500V3 | ICC ESR-3814 |
| DEWALT/POWERS PURE110+ | ICC ESR-3298 |

| EPOXY IN MASONRY | |
|---|---|
| EPOXY | REPORT # |
| SIMPSON SET-XP | IAPMO 265 |
| HILTI HIT-HY 70 | ICC ESR-2682 |
| DEWALT/POWERS AC100+GOLD | ICC ESR-3200 |
| | |

7. DRILL HOLES SHALL BE CLEAN OF CONCRETE DUST AND DEBRIS USING EITHER A NYLON BRUSH AND A VACUUM OR A NYLON BRUSH AND OIL-FREE COMPRESSED AIR. A BLOW-OUT BULB MAY BE USED IF A VACUUM OR COMPRESSED AIR IS NOT AVAILABLE. CLEANLINESS OF DRILL HOLES SHALL BE VERIFIED AND DOCUMENTED BY SPECIAL INSPECTOR.
8. PLACE EPOXY IN HOLE WITH CAULKING GUN OR SIMILAR EQUIPMENT, STARTING AT BOTTOM, FILL HOLE APPROXIMATELY 2/3 FULL
9. COAT ROD OR REBAR WITH THE SAME EPOXY AND INSERT INTO HOLE.
10. EPOXY FOR CMU SHALL ONLY BE USED IN SOLID GROUTED CMU WALLS.




* 1/2" FOR SIMPSON EPOXY
** 5/8" FOR SIMPSON EPOXY

| ROD HOLE SIZE | | |
|---|---|---|
| ROD SIZE | BIT DIAM. | MIN. DEPTH |
| 3/8" | * 7/16" | 3 3/8" |
| 1/2" | ** 9/16" | 4 1/2" |
| 5/8" | 3/4" | 5 5/8" |
| 3/4" | 7/8" | 6 3/4" |
| 7/8" | 1" | 7 3/4" |
| 1" | 1 1/8" | 9" |

| REBAR HOLE SIZE | | |
|---|---|---|
| REBAR SIZE | BIT DIAM. | MIN. DEPTH |
| #3 | 1/2" | 3 3/8" |
| #4 | 5/8" | 4 1/2" |
| #5 | 3/4" | 5 5/8" |
| #6 | 7/8" | 6 3/4" |
| #7 | 1" | 7 3/4" |
| | | |

## TYPICAL REBAR TENSION SPLICE AND BAR DEVELOPMENT SCHEDULE

4

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TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

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SHEET
SD1

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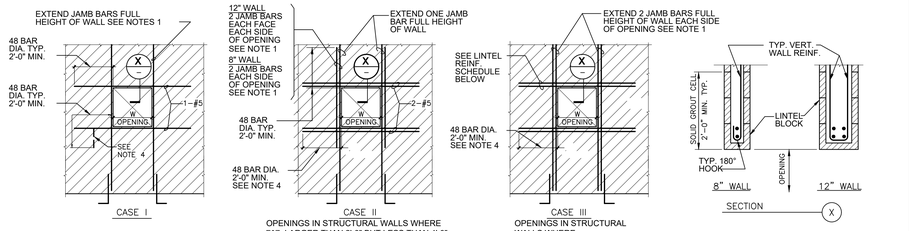
Xref ..\..\XREF\Title Block Cultivation Package.dwg




A. ALL OPENINGS IN STRUCTURAL WALL W=2'-0" OR LESS, BUT OVER 100 SQ. IN.

B. PARTITION WALL, SEE ARCH. DRAWINGS.

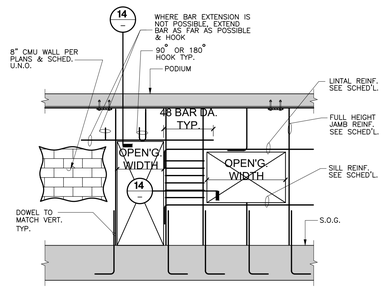
NOTES:

1. JAMB BARS SHALL BE THE SAME SIZE AS TYPICAL VERTICAL REINFORCEMENT. UNLESS OTHERWISE INDICATED.
2. REINFORCEMENT SHOWN IN THESE DETAILS ARE IN ADDITION TO TYPICAL VERTICAL AND HORIZONTAL WALL REINFORCEMENT.
3. OPENINGS LESS THAN 100 SQUARE INCHES DO NOT REQUIRED ADDITIONAL REINFORCEMENT.
4. WHEN 48 BAR DIA. OR 2'-0" MIN. CAN NOT BE OBTAINED, EXTEND REINFORCEMENT AS FAR AS POSSIBLE AND BEND DOWN TYP. AS SHOWN IN CASE 1.

LINTEL REINFORCING SCHEDULE

| OPENING "W" | 8" WALL REINF. | 12" WALL REINF. EA. FACE |
|---|---|---|
| LESS THAN 5'-0" | 2-#5 | 2-#5 |
| 5'-0" TO LESS THAN 7'-0" | 2-#6 | 2-#6 |
| 7'-0" TO LESS THAN 12'-6" | 2-#8 | 2-#8 |
| OVER 12'-6" | SEE ELEV. | SEE ELEV. |

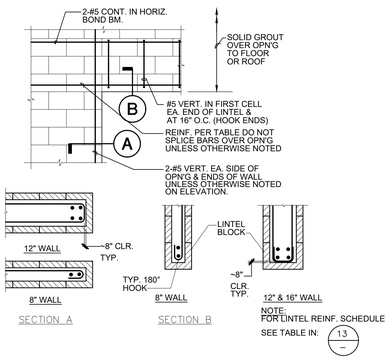
## TYP. REINF. AROUND ALL MASONRY WINDOW OPENINGS — 13




| OPEN'G. WIDTH | WALLS 8" THICK OR LESS | | WALLS 12" THICK OR MORE | |
|---|---|---|---|---|
| | JAMB REINF. | LINTAL/SILL REINF. | JAMB REINF. | LINTAL/SILL REINF. |
| LESS THAN 4'-0" | 1-#5 E.F. | 2-#5 | 1-#5 E.F. | 2-#5 E.F. |
| 4'-0" TO 6'-0" | 1-#5 E.F. | 2-#5 | 1-#6 E.F. | 2-#6 E.F. |
| 6'-1" TO 10'-0" | 1-#6 E.F. | 2-#6 | 1-#7 E.F. | 2-#7 E.F. |

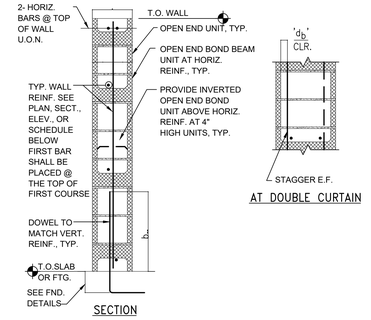
C.M.U. WALL LINTEL SCHEDULE

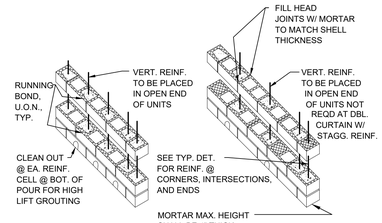
## TYP. MASONRY (CMU) WALL REINF. — 18




SECTION A SECTION B

## TYP. LINTEL/JAMB. SEC. AT OPEN'G. — 14



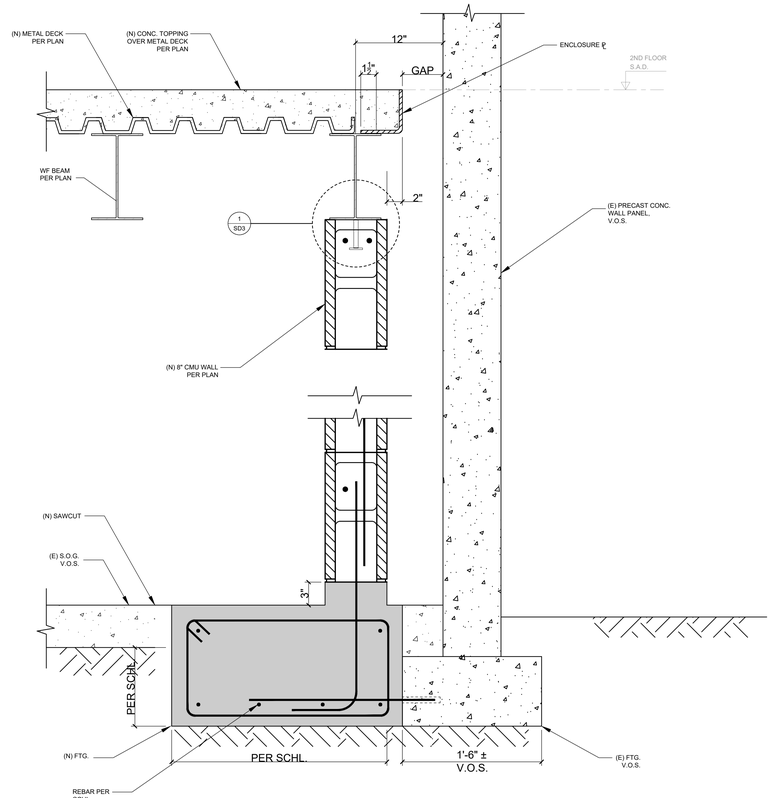




16" LONG UNITS W/ VERT. REINF. @ 16"O.C. (32"O.C. & 40"O.C. SIM.)
24" LONG UNITS W/ VERT. REINF. @ 24"O.C. (48"O.C. SIM.)

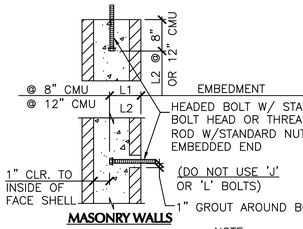
16" LONG UNITS W/ VERT. REINF. @ 24"O.C. (40"O.C. SIM.)
24" LONG UNITS W/ VERT. REINF. @ 36"O.C.

ISOMETRIC (DBL. CURTAIN SIM.)

## WALL REINFORCING




## SECTION — 2

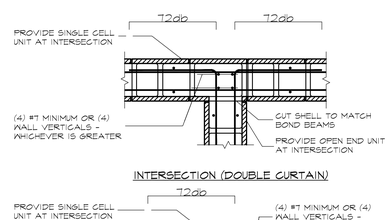



MASONRY WALLS — CONCRETE

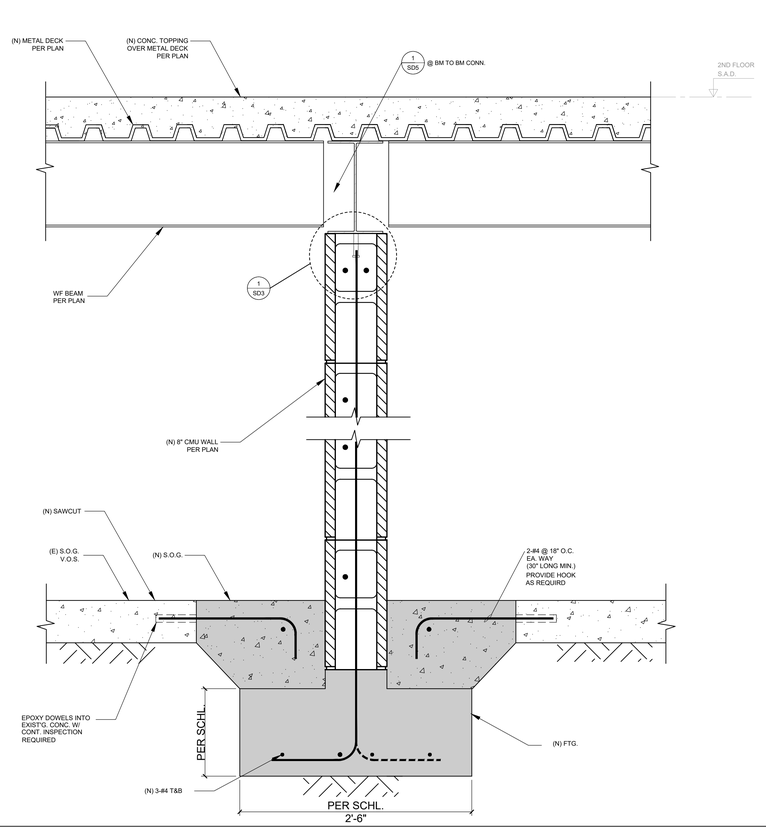
| BOLT SIZE. | EMBEDMENT | | |
|---|---|---|---|
| | MASONRY | | CONCRETE |
| | L1 | L2 | L3 |
| ½"ø | 5" | 5" | 7" |
| ⅝"ø | 5" | 6" | 7" |
| ¾"ø | 5" | 8" | 7" |
| ⅞"ø | 5" | 9" | 7" |
| 1"ø | 5" | 9" | 8" |

NOTE:
MAX. BOLT SIZE FOR MASONRY WALLS SHALL BE: ¾"ø FOR 8" CMU, 1"ø FOR 12" CMU. MINIMUM EDGE DISTANCE SHALL EQUAL EMBEDMENT UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE ACCURATELY SET WITH REMOVABLE TEMPLATES. TEMPLATES SHALL BE REMOVED TO VERIFY GROUT CONSOLIDATION. ANY VOIDS SHALL BE FILLED WITH GROUT.

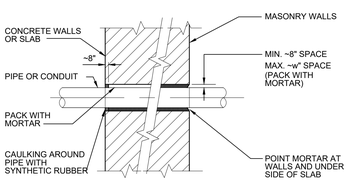
## TYP. BOLT EMBEDMENT — 19




## TYP. MASONRY CONSTRUCTION AT CORNERS AND INTERSECTIONS (PLAN VIEWS) — 15



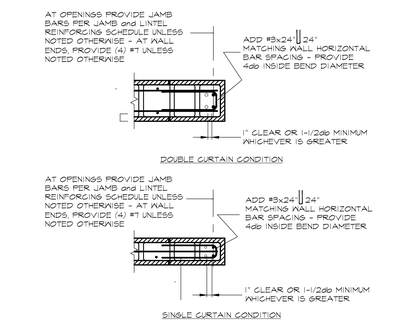

## SECTION — 4




NOTES:

1. 6" DIA. SLEEVES AND SMALLER, SCHEDULE 40 STEEL PIPE OR SCHEDULE 60 PVC PIPE
2. 8" DIA. SLEEVE AND LARGER, .25" THICK STEEL PIPE.
3. STEEL PIPE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
4. SLEEVE MAY BE OMITTED IF HOLE IS CORE DRILLED. CORE DRILLING IS SUBJECT TO ENGINEER'S APPROVAL.

## TYP. SLEEVE DETAIL — 16




## TYPICAL MASONRY CONSTRUCTION AT OPENINGS AND WALL ENDS — 16

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REGISTERED PROFESSIONAL ENGINEER
FOURAJ EIMANI
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Exp. 09/30/19
STRUCTURAL
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# FRESHMADE GROW

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BALDWIN PARK, CA

MASONRY DETAILS

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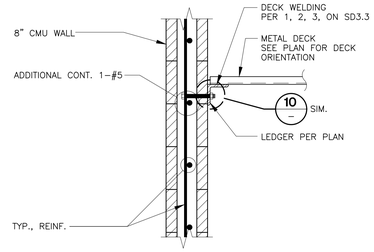
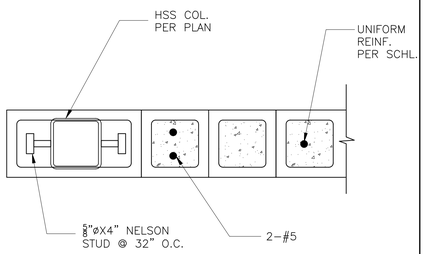
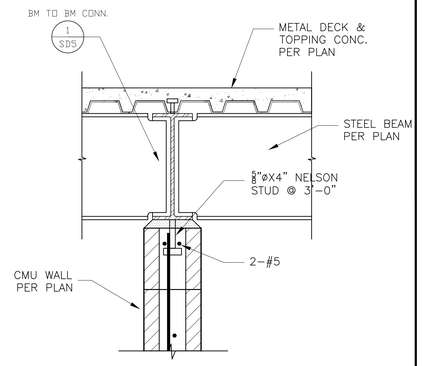
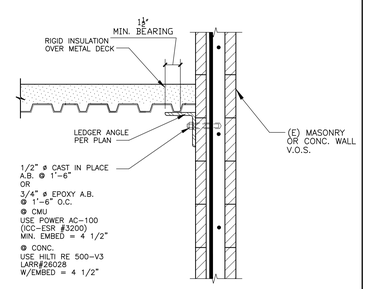
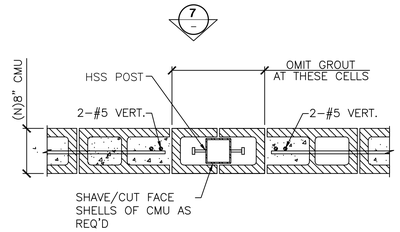
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 17 | | 13 | PERP. METAL DECK AT CMU WALL | 9 | STEEL POST @ END OF CMU WALL | 5 | STEEL BEAM ON TOP OF CMU WALL | 1 |
| | | 18 | | 14 | PARALLEL. METAL DECK AT CMU WALL | 10 | STEEL POST IN CMU | 6 | METAL DECK CONN. @ TOP OF CMU | 2 |
| | | 19 | | 15 | | 11 | SECTION | 7 | TYP. SLAB EDGE DETAIL | 3 |
| | | 20 | | 16 | | 12 | CANTILEVER SLAB < 1 FT | 8 | CANTILEVER SLAB < 1 FT | 4 |



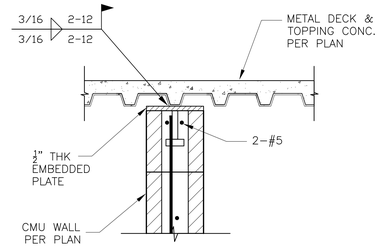



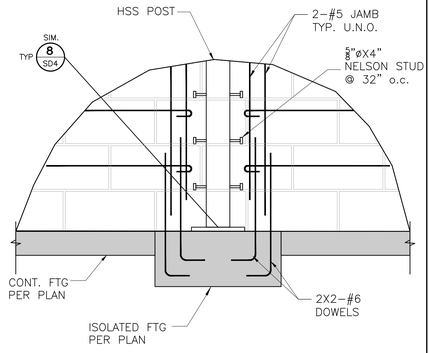



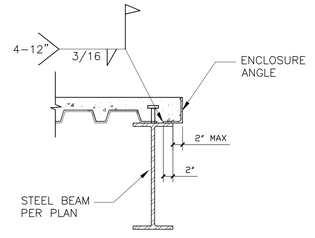



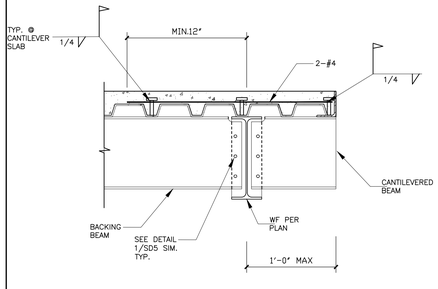



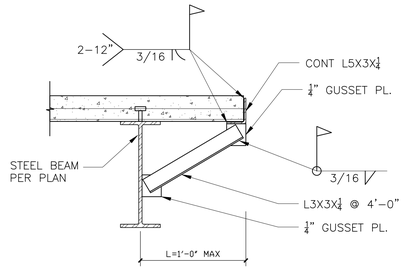

**PLAN VIEW**





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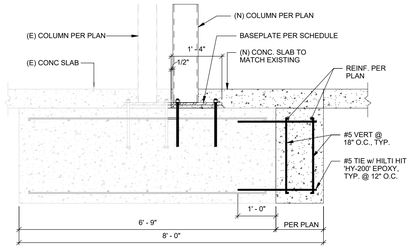
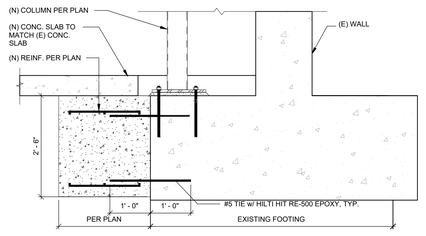
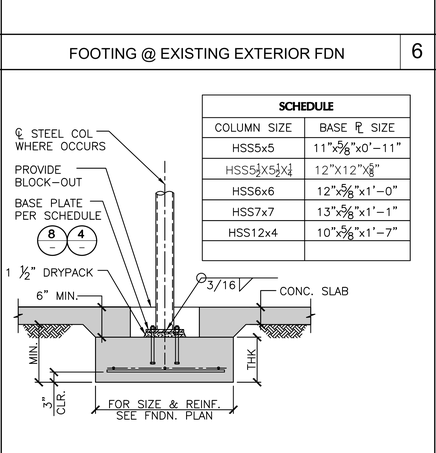


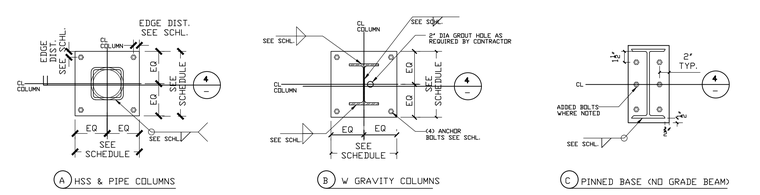

13 | 10 | FOOTING @ EXISTING COLUMN | 5




14 | 11 | FOOTING @ EXISTING EXTERIOR FDN | 6




15 | | TYP. ISOLATED PAD FOOTING | 7




BASE PLATE SCHEDULE

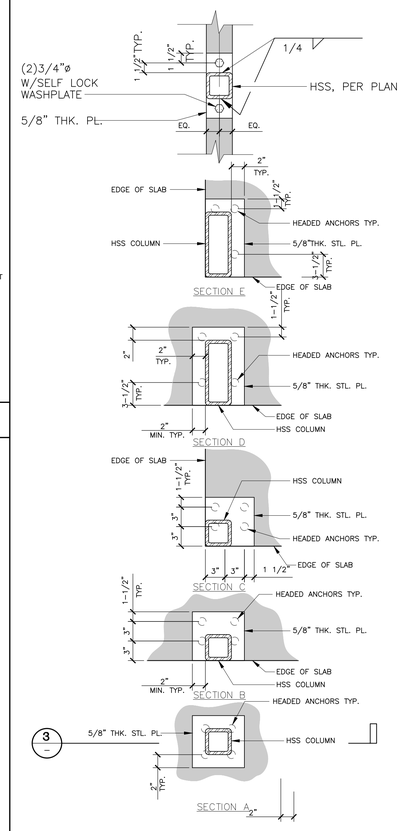
| COL. SIZE | MIN. PLATE t | AB QTY & DIA | EDGE DISTANCE | MIN FILLET WELD |
|---|---|---|---|---|
| PIPE (SEE SCHL. B) | SEE SCHL. B | SEE SCHL. B | 1 1/2" | 1/4" |
| HSS (SEE SCHL. B) | SEE SCHL. B | SEE SCHL. B | 1 1/2" | 1/4" |
| ANY W12 (N.A.) | 1" | 4- 1" | 1 1/2" | 5/16" |
| ANY W14 (6) | 1" | 4- 1 1/8" | 1 5/8" | 5/16" |
| ANY W16 (N.A.) | 1" | 4- 1 1/4" | 1 3/4" | 5/16" |

NOTES:
1. HOLES DIAMETER SHALL BE 1/16" LARGER THAN BOLT SIZE, DO NOT OVERSIZE.
2. EMBED RODS MINIMUM 12" INTO CONCRETE FOOTING UNLESS SPECIFIED IN SCHL. B.
3. PROVIDE DOUBLE NUTS FOR LEVELLING.
4. MINIMUM 1" PROJECTION ABOVE TOP OF BASE PLATE.
5. TERMINATE PIPE AND HSS RODS W/NUT, TERMINATE W/ RODS WITH DOUBLE NUTS AND 4" SQUARE X 3/8" THICK WASHER.
6. ANCHOR BOLT SIZES MAY VARY IF CALLED FROM DETAILS

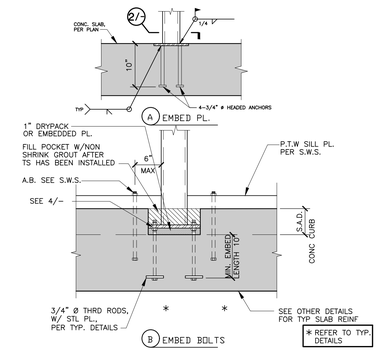
SCHEDULE B

| COL. SIZE | PLATE SIZE | THICKNESS | A.B. DIAMETER | EMBEDMENT |
|---|---|---|---|---|
| 4X4 OR 4"ø | 10"X10" | 3/4" | 3/4" | 9" |
| 5X5 OR 5"ø | 11"X11" | 1" | 3/4" | 10" |
| HSS 5 1/2X5 1/2 | 12"X12" | 1" | 3/4" | 10" |
| 6X6 OR 6"ø | 12"X12" | 1" | 3/4" | 10" |
| 7X7 OR 7"ø | 14"X14" | 1-1/4" | 1" | 12" |
| 8X8 OR 8"ø | 14"X14" | 1-1/4" | 1" | 12" |
| HSS 10X10 | 16"X16" | 1-1/4" | 1-1/4" | 12" |
| HSS 12X12 | 18"X18" | 1-1/4" | 1-1/4" | 12" |

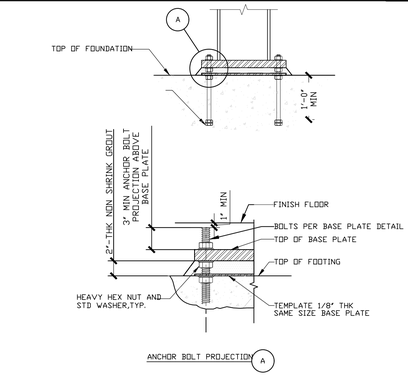
12 | GRAVITY COLUMN BASE PLATE DETAIL | 8




EMBEDDED BASE PL. | SCALE 1"=1'-0" ST-51602 | 2




EMBEDDED BASE PL. | SCALE 1"=1'-0" ST-51601 | 3




ANCHORAGE DETAIL | 4

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NIC PROJECT NO.1723.06


STAMP

REGISTERED PROFESSIONAL ENGINEER
TOURAJ EIMANI
No. S4302
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STRUCTURAL
STATE OF CALIFORNIA


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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

STEEL DETAILS

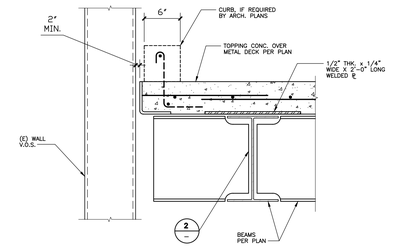
| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

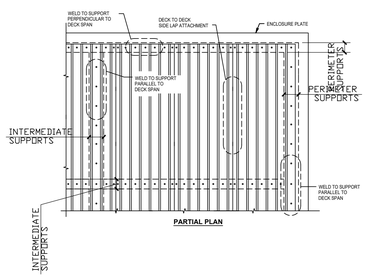
SHEET

SD4

04/15/2020 PLAN CHECK SUBMITTAL SET




DETAIL | 13




PARTIAL PLAN

## METAL DECK ATTACHMENT PATTERN (NOT USED) | 10

| MARK | DETAIL | TOTAL DEPTH | FILL | | DECK TYPE [1] | PROPERTIES, MINIMUM | | | ATTACHMENTS PER SHEET [4] | | | FIRE PROOFING REQ'D. | MAXIMUM SPAN [3] | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CONCRETE [2] | REINFORCING | | I (IN.⁴/FT.) | Sn (IN.³/FT.) | Ss (IN.³/FT.) | SUPPORTS | FRAMING PARALLEL | SIDE SEAM | | | |
| 4.5-1 | - | 4" | 2" H.R. | 6x6 - W1.4 x W1.4 | PLW2 18-Ga | 0.364 | 0.471 | 0.481 | (4) 1/2in P.W. | B.P. @12"O.C. | | NO | 10'-0" | MIN. 2-SPAN PANEL |
| 3.0-1 | - | 3 1/4" | 2" L.W. | 6x6 - W4 x W4 | DEEP VERCOR - 22 Ga | 0.123 | 0.175 | 0.174 | (4) 1/2in P.W. | B.P. @12"O.C. | B.P. @12"O.C. | NO | 6'-6" | 6x6 - W4 x W4 |
| 4.5-1 | - | 48" | 3 1/2" H.R. | #4@12"O.C. E.W. M.O. | PLW3 -18 Ga | 1.203 | 0.767 | 0.767 | (4) 1/2in P.W. | 12"x P.W. @12"O.C. | 12"x P.W. @12"O.C. | NO | 10'-6" | LAP BARS 2'-0" # 4 @ 12" O.C. STAGGER |

(NOT USED)
(NOT USED)

NOTES:

1. FOR ADDITIONAL CONCRETE FILL REQUIREMENTS, REFER TO GENERAL NOTES SHEE **SN1**
   ALL METAL DECKING SUPPORTING ROOF LEVELS SHALL BE VENTED.
   **H.R** = INDICATES**HARD ROCK CONCRETE**
   **L.S** = INDICATES**LOW SHRINKAGE**
   **L.W.** = INDICATES**LIGHTWEIGHT CONCRETE**
2. FOR ADDITIONAL METAL DECK REQUIREMENTS, REFER TO GENERAL NOTES SHEE **SN1**
3. METAL DECK SHALL BE CONTINUOUS OVER 3 SPANS WHERE LAYOUT PERMITS.
   SINGLE & DBL. SPANS REQUIRE ON GAUGE HEAVIER DECK ITEM WHAT IS SPECIFIED.
   FOR ADDITIONAL REQUIREMENTS, REFER TO GENERAL NOTES ON SHEE **SN1**

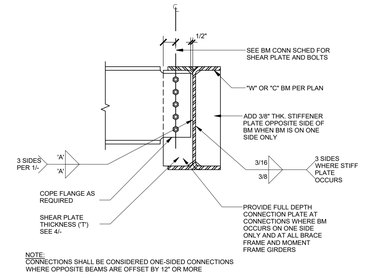
COMPRESSIVE STRENGTH OF TOPPING CONC. SHALL BE 4,000 PSI.

4. FOR ATTACHMENTS:
   **PN** = INDICATES**PUDDLE WELD**
   **BF** = INDICATES**BUTTON PUNCH**
   **SSW** = INDICATES**SIDE SEAM WELD**
   **TSW** = INDICATES**TOP SEAM WELD**

NO SHOT PIN CONN. IS ALLOWED INTO MEMBERS OF SLFRS.

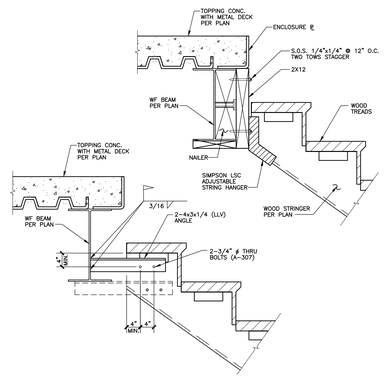
5. FOR SPECIFIC FIREPROOFING REQUIREMENTS, SEE ARCHITECTURAL DRAWINGS & SPECIFICATIONS.
6. STUDS AT COMPOSITE BEAMS & GIRDERS ARE IN ADDITION TO INDICATED PUDDLE WELDS.
   FOR STUD ATTACHMENT DETAILS **ON THIS SHEET**

## METAL DECK SCHL. | 5

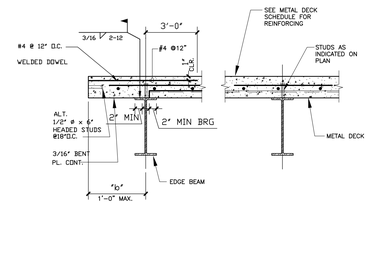



NOTE:
CONNECTIONS SHALL BE CONSIDERED ONE-SIDED CONNECTIONS WHERE OPPOSITE BEAMS ARE OFFSET BY 12" OR MORE

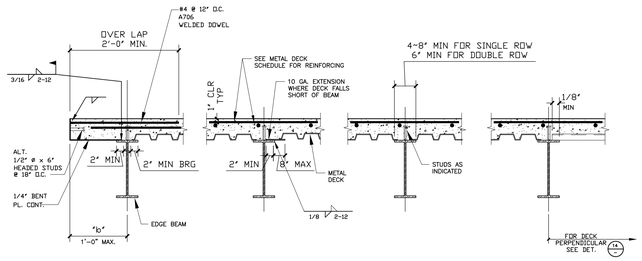
## TYP. BOLTED BEAM CONN. | 1




DETAIL | 14




## METAL DECK WITH CONC. PERPENDICULAR TO BEAM (NOT USED) | 11

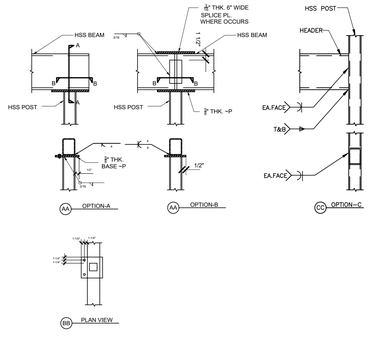



## METAL DECK WITH CONC. PARALLEL TO BEAM (NOT USED) | 6

| BEAM CONNECTION SCHEDULE | | | | |
|---|---|---|---|---|
| **NOMINAL MEMBER DEPTH** | **SHEAR PLATE THICKNESS ('T')** | **FASTENERS A325-N BOLTS** | **WELD SIZE ('A')** | **CAPACITY (Kips) LFRD** |
| LESS THAN 8" | 3/8" | (2) - 3/4"ø | 1/4" | 31.8 |
| 8" THRU 10" | 3/8" | (2) - 3/4"ø | 1/4" | 31.8 |
| 12" THRU 14" | 3/8" | (3) - 3/4"ø | 1/4" | 47.7 |
| 16" | 3/8" | (4) - 3/4"ø | 5/16" | 63.6 |
| 18" | 1/2" | (4) - 3/4"ø | 5/16" | 63.6 |
| 21" | 1/2" | (5) - 3/4"ø | 3/8" | 79.5 |
| 24" | 1/2" | (6) - 3/4"ø | 3/8" | 95.4 |
| 27" | 1/2" | (7) - 3/4"ø | 3/8" | 111.3 |
| 30" | 1/2" | (8) - 3/4"ø | 3/8" | 127.2 |
| 33" | 1/2" | (9) - 3/4"ø | 3/8" | 143.1 |

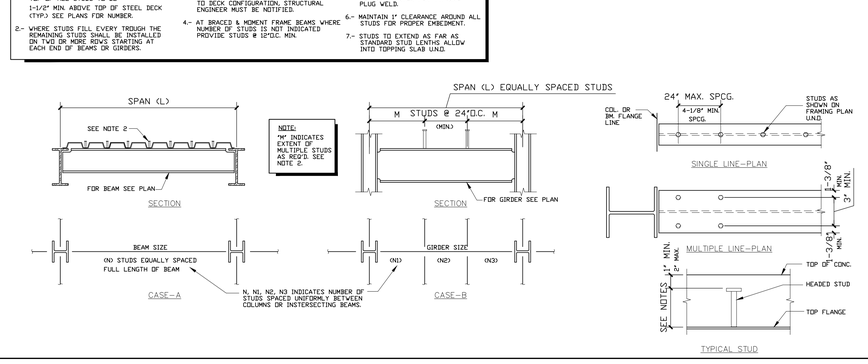
NOTES:
1. PROVIDE SHORT SLOTTED HOLES AS PER AISC, TYP. U.N.O.
2. ALL PLATES ARE ASTM A572, GARDE 50.

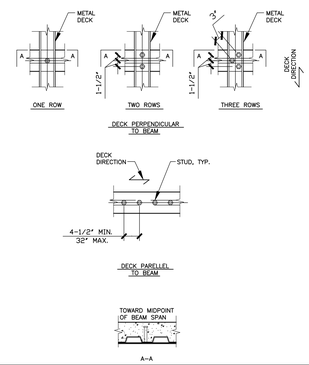
## BOLTED BEAM CONNECTION SCHEDULE | 2



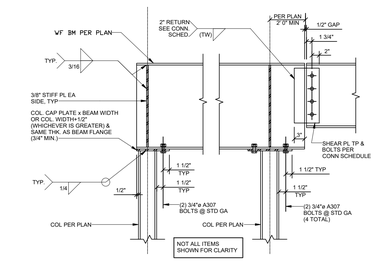

WELDED POST-TO-BEAM CONN. | 15

NOTES:
1.- ALL HEADED SHEAR STUDS SHALL BE 3/4"ø. TOP OF ALL STUDS TO BE 1-1/2" MIN. ABOVE TOP OF STEEL DECK (TYP.) SEE PLANS FOR NUMBER.
2.- WHERE STUDS FILL EVERY TROUGH THE REMAINING STUDS SHALL BE INSTALLED ON TWO OR MORE ROWS STARTING AT EACH END OF BEAMS OR GIRDERS.
3.- CASE "A" STUDS ARE EQUALLY SPACED. IF EQUAL SPACING NOT POSSIBLE DUE TO DECK CONFIGURATION, STRUCTURAL ENGINEER MUST BE NOTIFIED.
4.- AT BRACED & MOMENT FRAME BEAMS WHERE NUMBER OF STUDS IS NOT INDICATED PROVIDE STUDS @ 12"O.C. MIN.
5.- STUDS WELDED THRU DECKING MAY BE SUBSTITUTED FOR TYPICAL PLUG WELD.
6.- MAINTAIN 1" CLEARANCE AROUND ALL STUDS FOR PROPER EMBEDMENT.
7.- STUDS TO EXTEND AS FAR AS STANDARD STUD LENTHS ALLOW INTO TOPPING SLAB U.N.O.



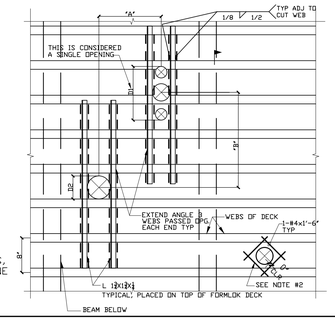




## 7

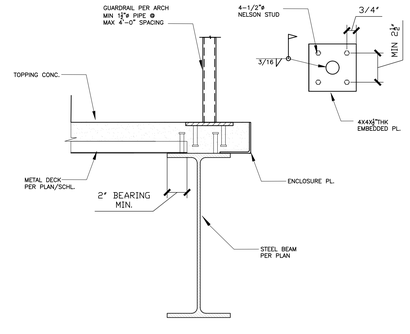



## TYP. BEAM TO TOP OF COLUMN | 3

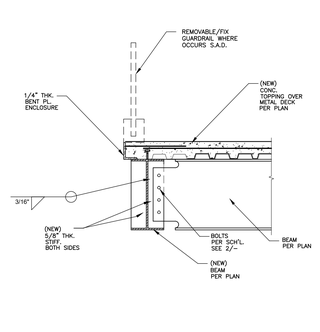
NOTES:
1. DO NOT CUT MORE THAN 2 ADJACENT WEBS
2. HOLES LESS THAN 6" IN DIAMETER AND CUTTING NO MORE THAN 1 WEB NEED TO BE REINFORCED AS SHOWN ABOVE
3. ANGLES SHALL BE PLACED ON TOP OF DECK.
4. IF DIMENSION "A" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "B".
5. IF DIMENSION "B" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "A".
6. IF DIMENSIONS "A" AND "B" ARE LESS THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING
7. MAXIMUM DIMENSION FOR D2 IS 12".
8. ALL OPENINGS ADJACENT TO BRACED FRAME BEAMS, DRAG BEAMS, AND CHORD BEAMS CAN ONLY BE DONE WITH THE STRUCTURAL ENGINEER'S APPROVAL.



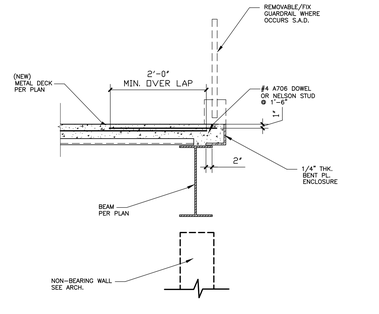

OPENING IN METAL DECK WITH CONCRETE | 12




## GUARDRAIL POST CONNECTION | 9




## DETAIL | 8




## DETAIL | 4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SHEET

SD5

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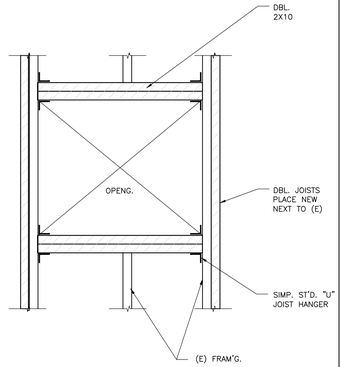
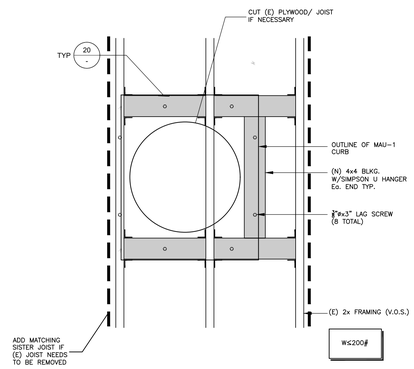
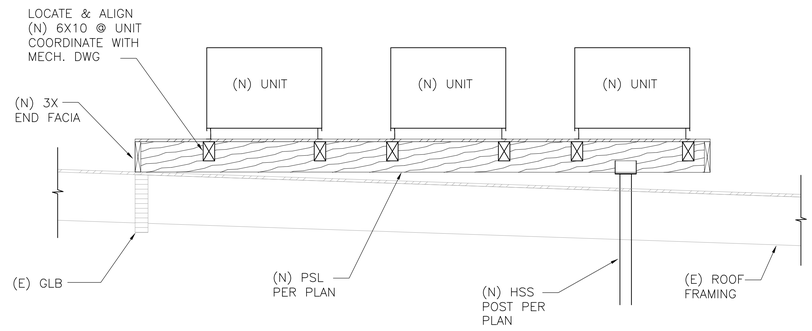


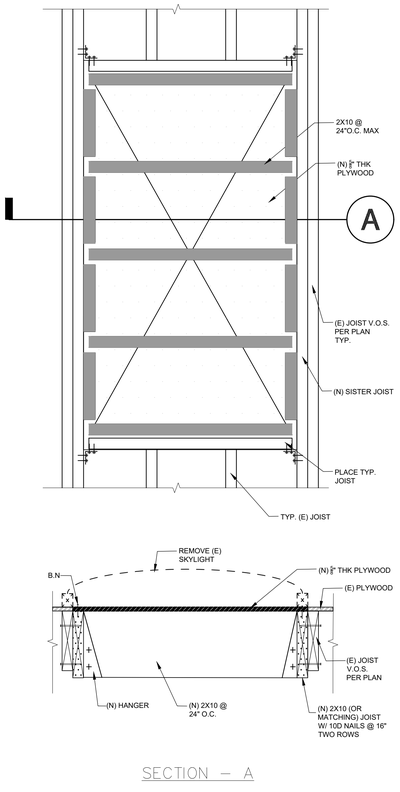

NEW OPNG. 17




LIGHT WT EQUIP. SUPPORT FRAMING 13

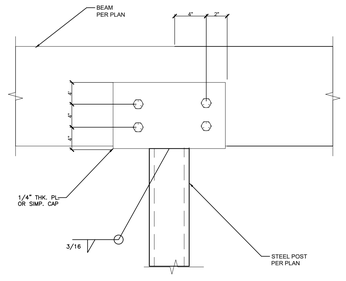



SECTION 14

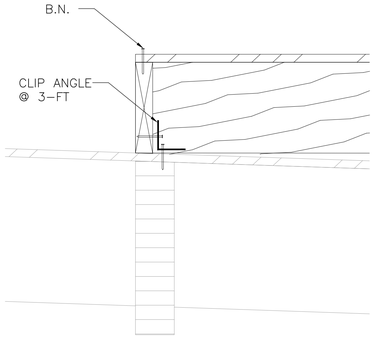



SECTION – A

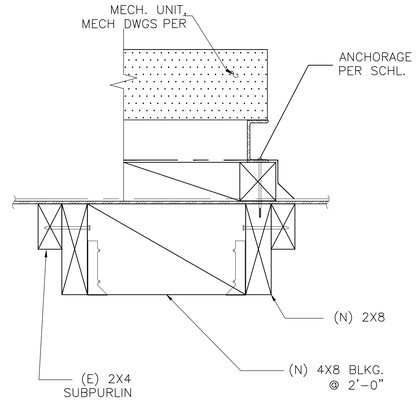
TYP. SKYLIGHT INFILL 20




WOOD BM STL POST CONN. 15




16

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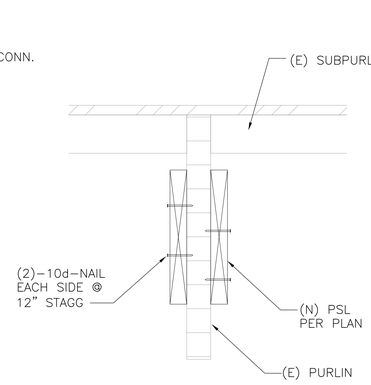


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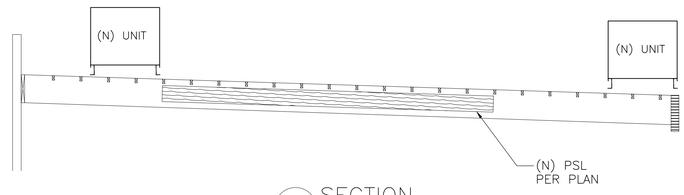



C SECTION

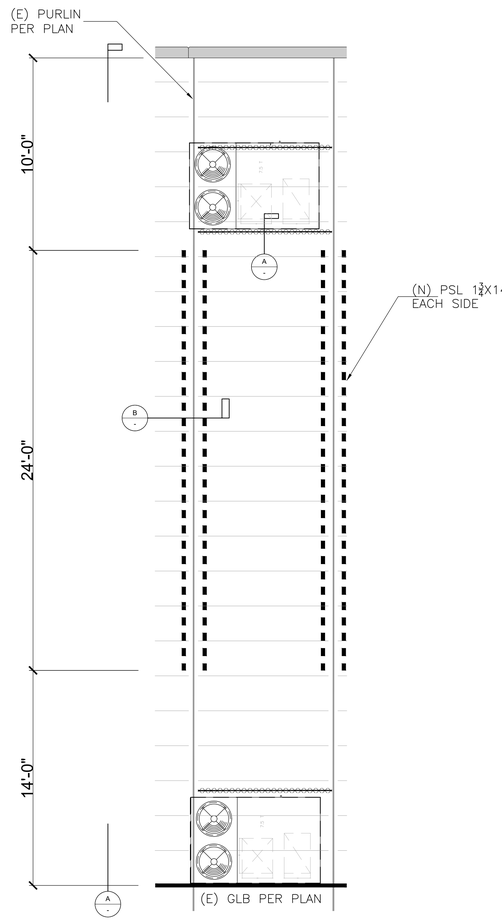
## ANCHORAGE SCHEDULE

| UNIT SYMBOL | MAX. WEIGHT | ANCHORAGE |
|---|---|---|
| RTU 1, RTU 2 | 1,150 LB | (4)- 3/8"Ø LAG SCREW LONG SIDE (3)- 3/8"Ø LAG SCREW SHORT SIDE MIN PENETRATION = 5" |
| VRV 1 | 700LB | (3)- 3/8"Ø LAG SCREW LONG SIDE (2)- 3/8"Ø LAG SCREW SHORT SIDE MIN PENETRATION = 5" |
| AC 1, AC 2 | 700LB | (3)- 3/8"Ø LAG SCREW LONG SIDE (2)- 3/8"Ø LAG SCREW SHORT SIDE MIN PENETRATION = 5" |
| | | |

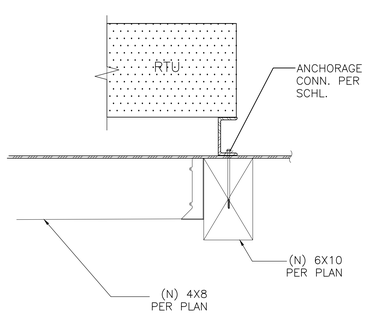
(N) REINFORCED PURLIN

(N) REINFORCED SUBPURLIN

EXACT FRAMING CONFIGURATION AND SIZES MAY VARY ON DIFFERENT AREAS



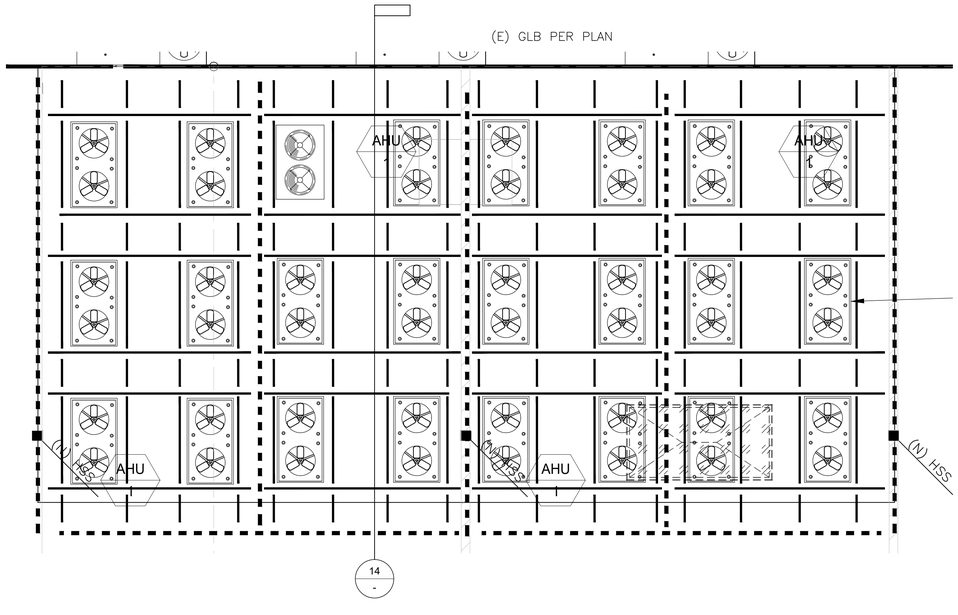

SUPPORT (NO PLATFORM) FOR MEDIUM UNITS (WT < 1500 LBS) 2




SEE ANCHORAGE SCHL. ON 2/–

(N) PSL 5¼X14

(N) 6X10 E-W DIR.
(N) 4X8 N-S DIR.

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SHEET
SD6

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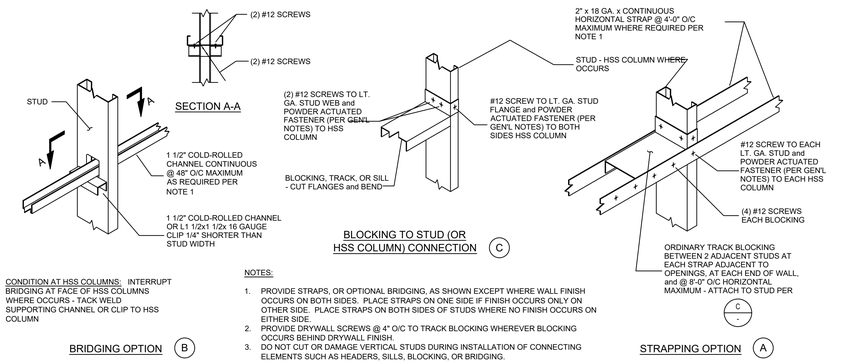
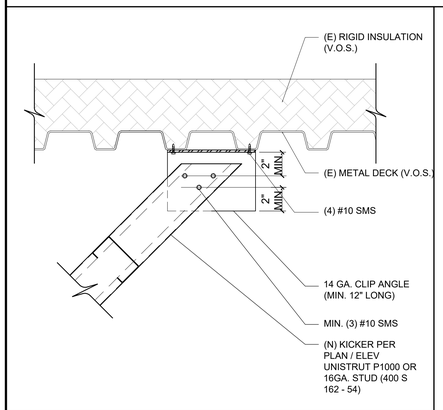
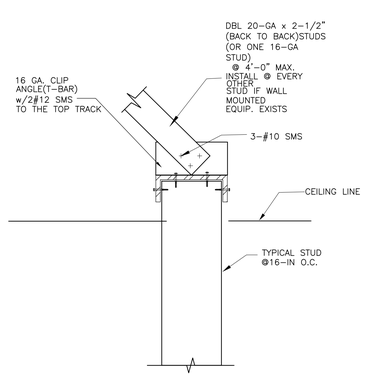


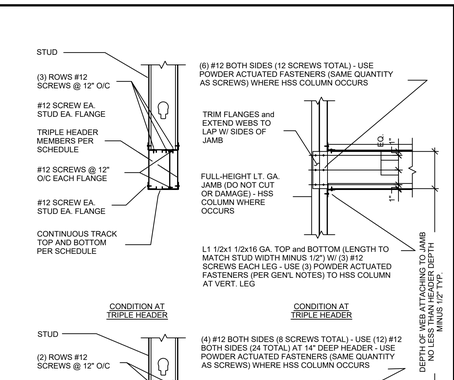

## TYPICAL METAL STUD STRAPPING OR BRIDGING DETAIL | 13



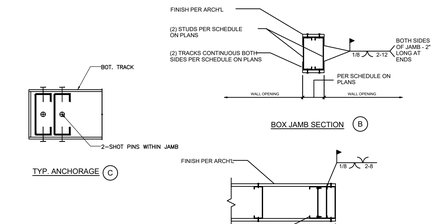

## STUD WALL SEISMIC BRACE TOP SUPPORT | 18



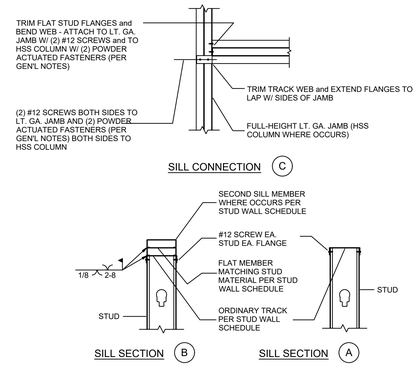

## STUD WALL SEISMIC BRACE BOT. SUPPORT | 14



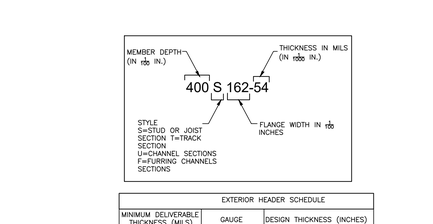

## TYP. STUD HEADER CONSTRUCTION AT OPENINGS | 10




## TYPICAL STUD WALL JAMB CONSTRUCTION AT OPENINGS | 5

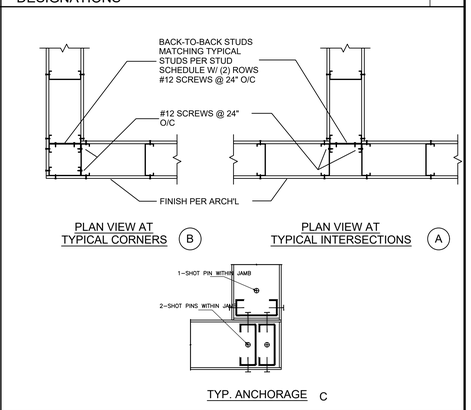



## TYP. STUD WALL SILL CONSTRUCTION AT OPENINGS | 6

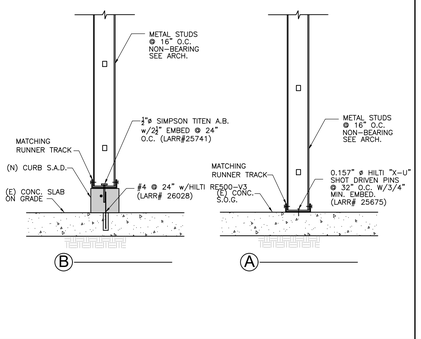



| EXTERIOR HEADER SCHEDULE | | |
|---|---|---|
| MINIMUM DELIVERABLE THICKNESS (MILS) | GAUGE | DESIGN THICKNESS (INCHES) |
| 33 | 20 | 0.0346 |
| 43 | 18 | 0.0451 |
| 54 | 16 | 0.0566 |
| 68 | 14 | 0.0713 |
| 97 | 12 | 0.1017 |
| 118 | 10 | 0.1242 |

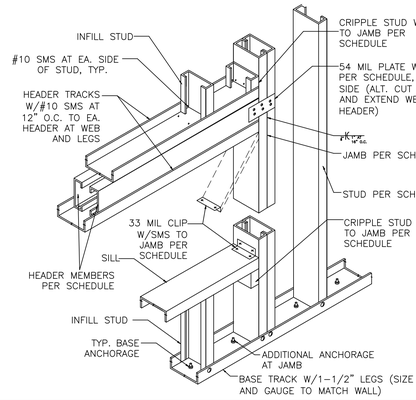
## TYP. LIGHT GUAGE STUD DESIGNATIONS | 1




## TYP. NON-BEARING WALL AT CORNERS/ INTERSECTIONS | 2




## TYP. STUD WALL BOT. SUPPORT | 19




## TYP. STUD WALL ASSEMBLY @ OPENINGS | 15

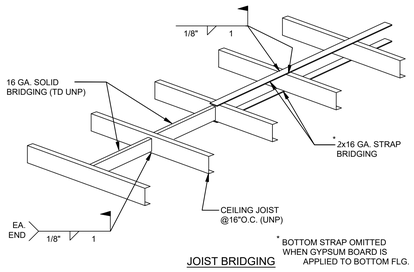
| MAXIMUM SPAN FOR CEILNG JOIST | | | |
|---|---|---|---|
| | | INTERIOR | |
| TYPE | GUAGE / SPACING | 20 (33) | 16 (54) |
| 400S162 | 16" | 10'-0" | 13'-0" |
| | | | |
| 600S162 | 16" | 12'-0" | 15'-0" |
| | | | |

CEILING JOIST:
1. ALL DBL JOIST TO BE 16 GA.
2. TOP OF ALL CEILING JOIST WITHOUT APPROVED CONTINUOUS SHEATHING SHALL BE BRACED AT 48" O.C MAX.
3. THE MAX. SPAN GIVEN ARE BASED ON THE FOLLOWING ASSUMPTION:
A) 5 PSF DEAD LOAD AND 10 PSF LIVE LOAD FOR INTERIOR.
B) CONTINUOUS LATERAL SUPPORT OF COMPRESSION FLANGE.
C) BRIDGING REQUIREMENT AS PER DETAIL ABOVE
D) WEB PUNCHOUT IS NOT ALLOWED WITHIN 1'-0" MIN. FROM END OF BEARING.

MINIMUM JOIST BRIDGING

INSTALL 16 GAGE SOLID BRIDGING IN FIRST TWO AND LAST TWO JOIST SPACES. STARTING AT THIRD JOIST SPACE, INSTALL 2"x16 GAGE STRAP BRIDGING, TOP AND BOTTOM, EXTENDING FOR FIVE SPACES. FOLLOW WITH CHANNEL BRIDGING IN ONE SPACE. REPEAT TO COMPLETION, WITH FIVE SPACES OF STRAP BRIDGING, FOLLOWED BY ONE SPACE IF CHANNEL BRIDGING.

BRIDGING REQUIREMENTS
SPANS: 0 - 7' NON REQUIRED
7' - 14' ONE ROW AT MID-SPAN




JOIST BRIDGING

## NEW CEILING JOISTS LAYOUT | 16

(*) FOR NON-BEARING PARTITIONS, HEIGHTER ASSEMBLIES MAY BE ALLOWED. SEE ARCH.

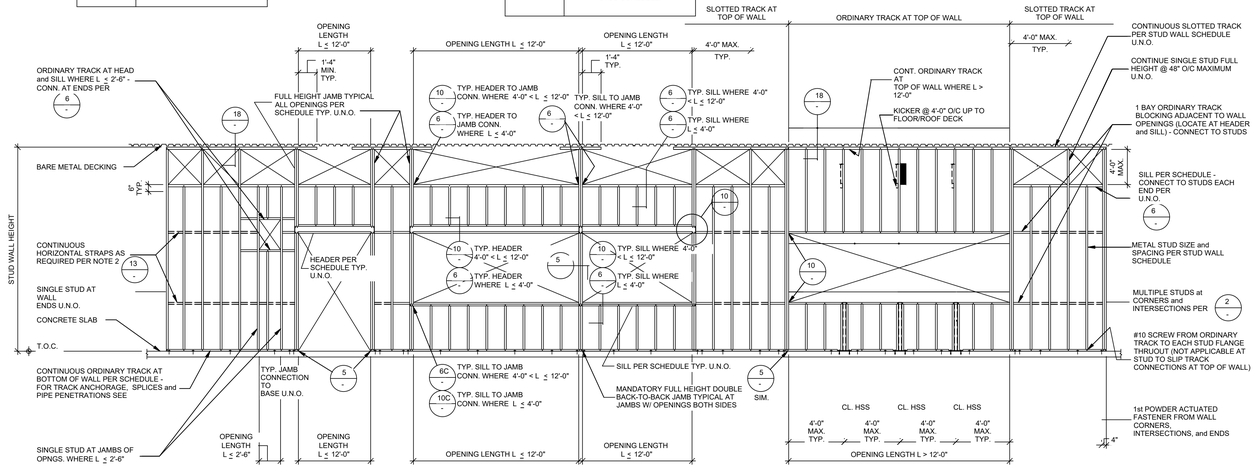
| INTERIOR NON-BEARING SILL SCHEDULE | |
|---|---|
| MAX. OPNG. LENGTH "L" | SILL MATERIAL |
| 4'-0" | ORDINARY TRACK PER STUD WALL SCHEDULE |
| 8'-0" | FLAT MEMBER MATCHING STUD MATERIAL W/ ORDINARY TRACK BELOW PER STUD WALL SCHEDULE |
| 12'-0" | (2) FLAT MEMBERS MATCHING STUD MATERIAL W/ ORDINARY TRACK BELOW PER STUD WALL SCHEDULE |

| INTERIOR NON-BEARING JAMB SCHEDULE | | |
|---|---|---|
| MAX. OPNG. LENGTH "L" | JAMB MATERIAL | SECTION |
| 4'-0" | DOUBLE STUDS MATCHING STUD MATERIAL | 5 - |
| 8'-0" | DOUBLE STUDS MATCHING STUD MATERIAL | 5 - |
| 12'-0" | DOUBLE STUDS MATCHING STUD MATERIAL - 54 MIL (16 GA.) MIN. THK. | 5 - |

| INTERIOR NON-BEARING HEADER SCHEDULE | |
|---|---|
| MAX. OPNG. LENGTH "L" | HEADER MATERIAL |
| 4'-0" | FLAT MEMBER MATCHING STUD MATERIAL W/ ORDINARY TRACK ABOVE PER STUD WALL SCHEDULE |
| 8'-0" | (2) 600S162-43 W/ ORDINARY TRACK TOP and BOTTOM PER STUD SCHEDULE |
| 12'-0" | (2) 800S162-43 W/ ORDINARY TRACK TOP and BOTTOM PER STUD SCHEDULE |

| INTERIOR NON-BEARING STUD WALL SCHEDULE | | | |
|---|---|---|---|
| MAXIMUM STUD HEIGHT "H" | METAL STUD (SSMA DESIGNATION) and SPACING | ORDINARY TRACK (SSMA DESIGNATION) | SLOTTED TRACK GAUGE |
| 12'-0" | 400S162-27 @ 16" O/C | 400T125-27 | 18 |
| 24'-9" | 600S162-43 @ 16" O/C | 600T125-33 | 16 |
| | | | |

STUD WALL NOTES
1. SEE LIGHT GAUGE METAL FRAMING GENERAL NOTES PER THIS SHEET.
2. PROVIDE HORIZONTAL STRAPS (OR OPTIONAL BRIDGING) AT ALL STUD WALLS EXCEPT WHERE WALL FINISH OCCURS ON BOTH SIDES OF WALL. SEE DETAIL 13.
3. STUD SIZES INDICATED ON SCHEDULE IS MINIMUM DESIGN WIDTH. PROVIDE WIDER STUDS OF SAME GAUGE, FLANGE, and RETURN SIZES IF ARCHITECTURAL CONSTRAINTS REQUIRE WIDER WALL THICKNESSES.




TYPICAL INTERIOR NON-BEARING STUD WALL ELEVATION

(+) FOR ISOMETRIC VEIW OF STUD ASSEMBLY @ OPENINGS SEE 16/-

## TYPICAL INTERIOR NON-BEARING STUD WALL SCHEDULES AND ELEVATION | 4

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NIC PROJECT NO.1723.06

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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

METAL STUD DETAILS

| REMARKS | DATE: |
|---|---|
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| | |
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| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET

SD7

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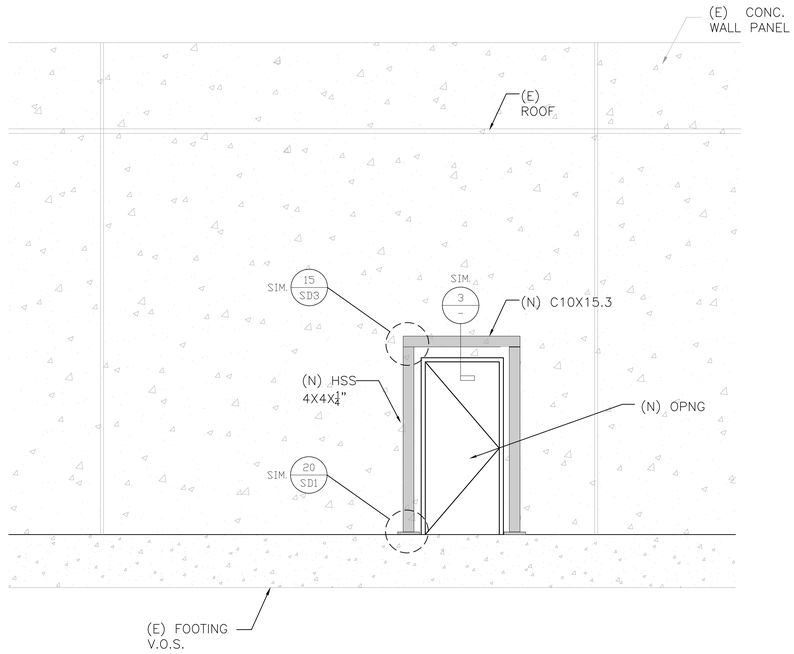
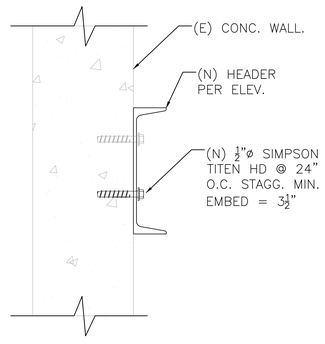



TYP. EXT. WALL OPENING < 4 FT

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# FRESHMADE GROW

TENANT IMPROVEMENT

4517 LITTLEJOHN STREET

BALDWIN PARK, CA

DETAILS

| REMARKS | DATE |
|---|---|
| PLAN CHECK SUBMITTAL SET | 04/15/2021 |

| | |
|---|---|
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| DRAWN BY: | |
| JOB NO.: | XXXX |

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SD8

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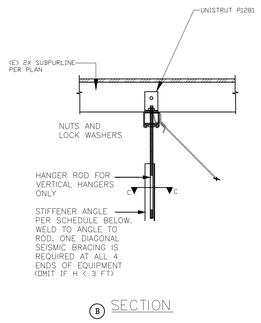
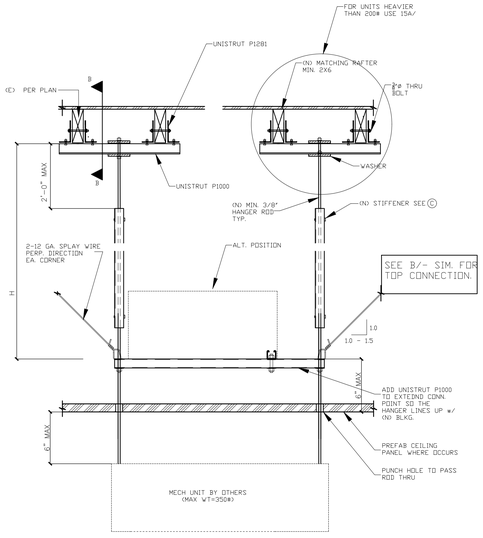
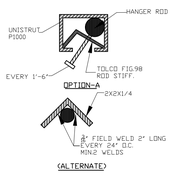



(B) SECTION



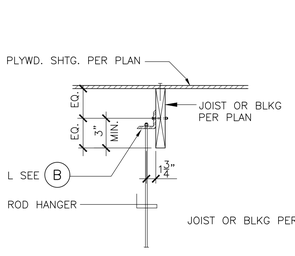

(D) SECTION



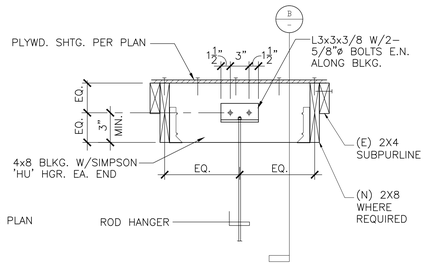

| ANGLE SCHEDULE | |
|---|---|
| ROD LENGTH | ANGLE SIZE |
| 1'-0" TO 6'-0" | 2X2X16 GA. |
| 6'-0" TO 9'-0" | 3X3X16 GA. |

(C) SECTION

SUSPENDED UNIT (HUNG FROM WOOD FRAMING) 14

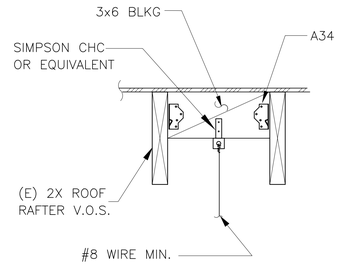



(B) SECTION



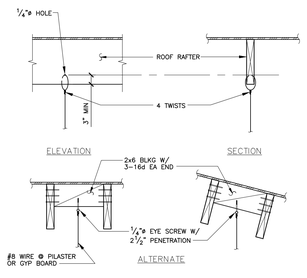

(A) VIEW

TOP CONNECTION FOR HANGER RODS (1/4" OR LARGER) 15



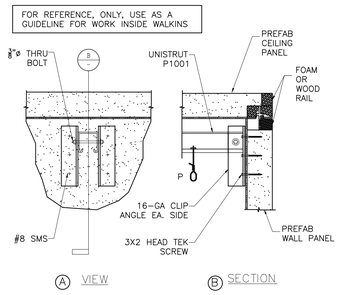

COORDINATE WITH VENDOR FOR PRECAST CEILING PANELS

WIRE TOP CONN (MAX WT < 500 LB) 20



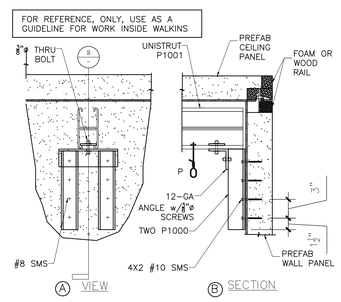

WIRE TOP CONN (MAX WT < 50 LB) 16

9



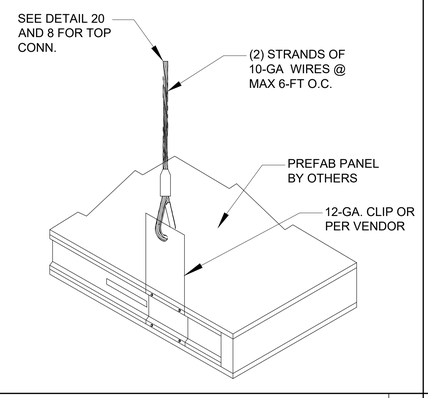

(A) VIEW (B) SECTION

UNISTRUT DETAIL ( UP TO P=100 #) 10

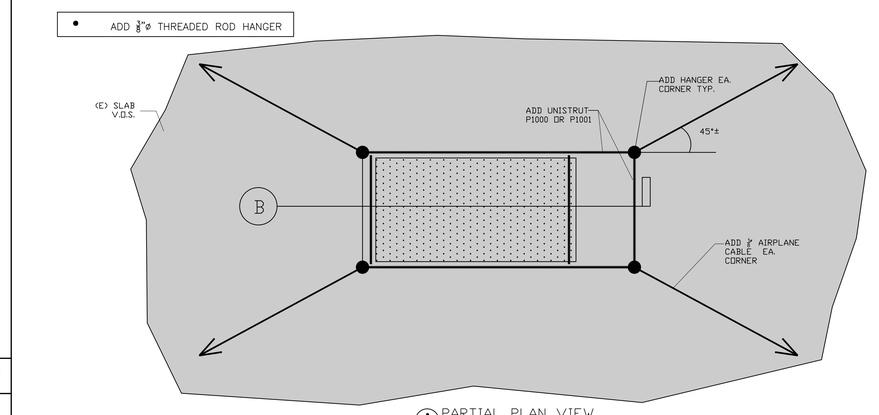



(A) VIEW (B) SECTION

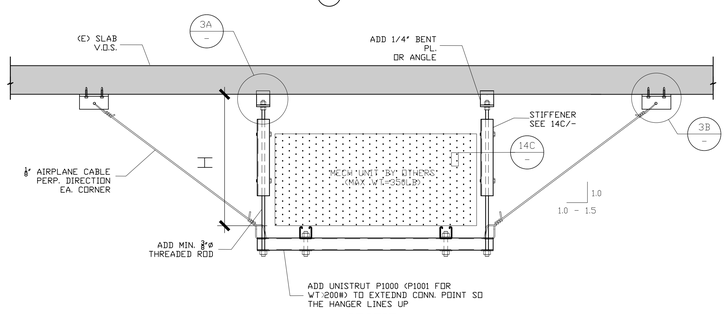
UNISTRUT DETAIL (UP TO P=250 #) 11




PREFAB CEILING PANEL 12

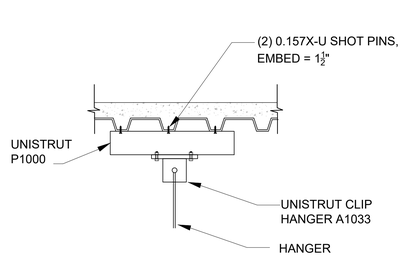



(A) PARTIAL PLAN VIEW

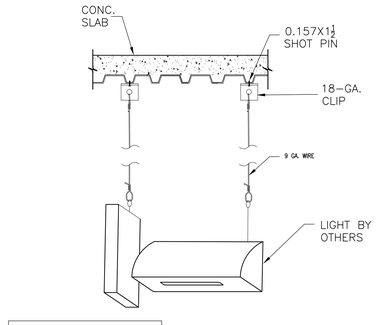



(B) SECTION

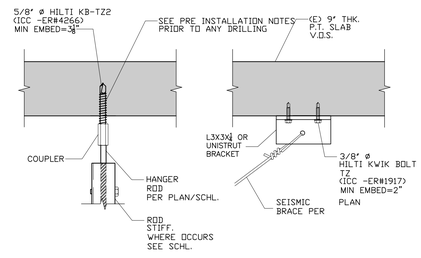
HANGER SUPPORT/ SEISMIC BRACING @ HUNG UNITS 2




WIRE TOP CONN @ CONC. (MAX WT < 500LB) 7




TYP. LIGHT HUNG FROM CONC SLAB (WT<25LB) 8




(A) TOP CONNECTION @ HANGER (B) TOP CONNECTION @ BRACE CABLE

TOP CONNECTION 3

4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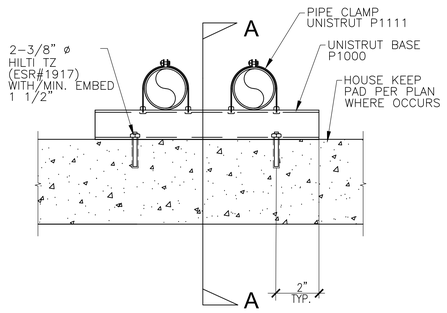
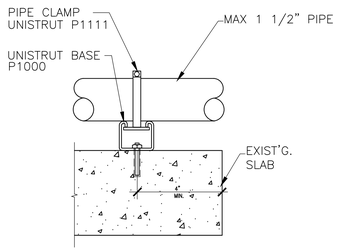
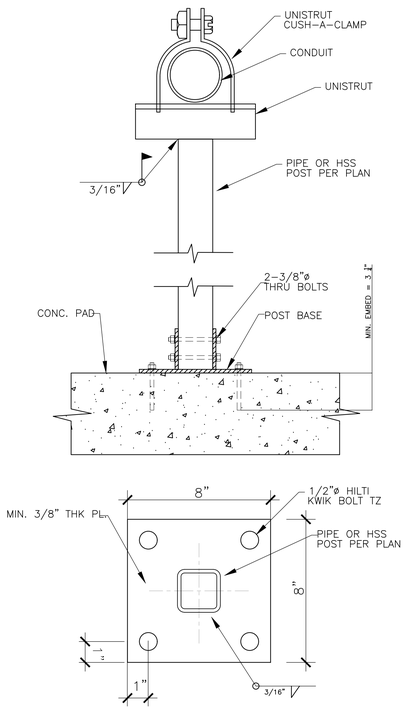


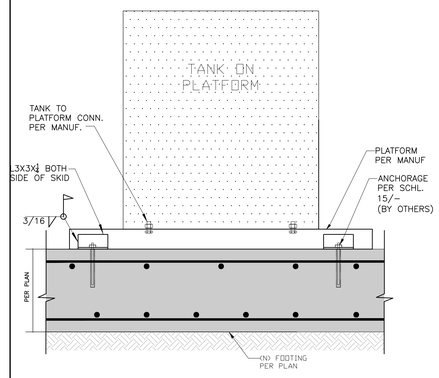




SECTION A-A

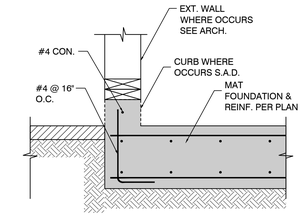
PIPE SUPPORT ON SLAB | 14



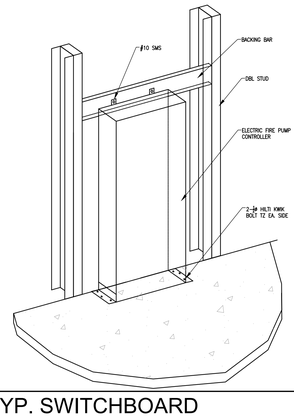

STANDING POST SUPPORT DETAIL | 20



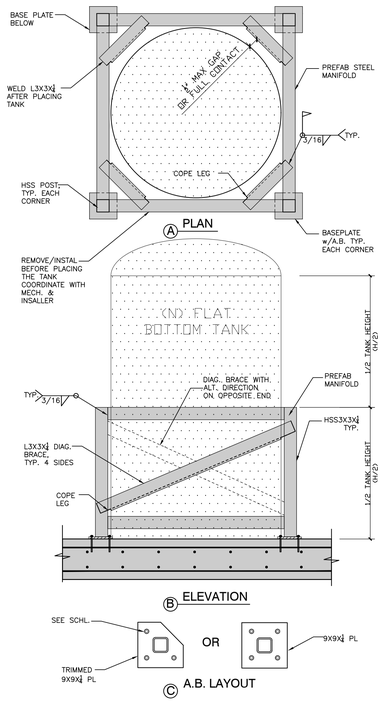

TANK ON ELEVATED PLATFORM | 13




TYP. FOOTING EDGE | 15




TYP. SWITCHBOARD | 16



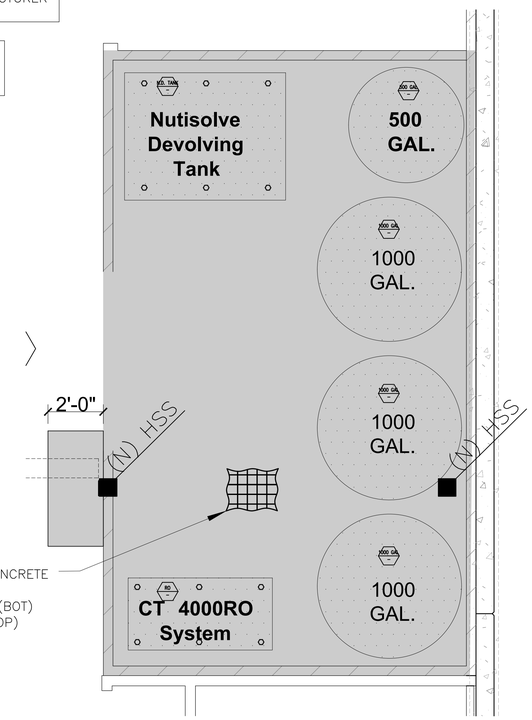

TYPICAL FLAT TANK | 10

| EQUIP. ANCHORAGE SCHL. | | | |
|---|---|---|---|
| SYMBOL | MAX. WEIGHT (LBS) | DIMENSION | ANCHORAGE |
| 500 GAL | 8,500 | 60"DX90"H | DETAIL 10, (4)-¾"ø HILTI KB-TZ2 EA. LEG MIN EMBED = 3½" |
| 1000 GAL | 4,500 | 48"DX65"H | DETAIL 10, (4)-¾"ø HILTI KB-TZ2 EA. LEG MIN EMBED = 3½" |
| NU. TANK | 4,000 | 67"LX53WX44"H | 3X2-¾"ø HILTI KB-TZ2 MIN EMBED=3½" COORDINATE ANCHORAGE LOCATION WITH MANUF. |
| RO | | | 3X2-¾"ø HILTI KB-TZ2 MIN EMBED=3½" COORDINATE ANCHORAGE LOCATION WITH MANUF. |
| CO2 | 2,000 | | DETAIL 13, 2 ANCHORAGE POINT EA. SIDE OF PLATFORM (TOTAL 8) ¾"ø HILTI KB-TZ2 EA. ANCHORAGE POINT MIN EMBED = 3½" |
| GENERATOR | 1,150 | 81"LX34WX45"H | 2X2-¾"ø HILTI KB-TZ2 MIN EMBED=3½" COORDINATE ANCHORAGE LOCATION WITH MANUF. |
| COMPRESSOR | | | 3-¾"ø HILTI KB-TZ2 MIN EMBED=3½" COORDINATE ANCHORAGE LOCATION WITH MANUF. |

ANCHORAGE SCHEDULE | 12

COORDINATE ANCHORAGE
LOCATION WITH MANUFACTURER

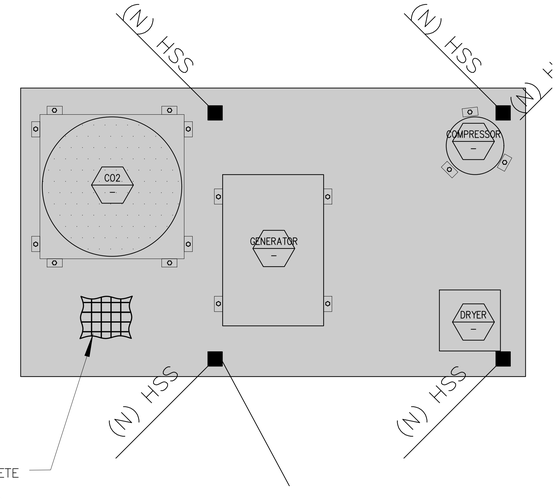
FOR EQUIPMENT
ANCHORAGE SEE 12/-




TANK ROOM ENLARGED PLAN | 2

COORDINATE ANCHORAGE
LOCATION WITH MANUFACTURER

FOR EQUIPMENT
ANCHORAGE SEE 12/-




EXT. CONCRETE PAD ENLARGED PLAN | 4

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## SPLIT SYSTEM CONDENSING UNIT SCHEDULE

| MARK | MFR. MODEL | COOLING | | | HEATING | | ELECT. | | | | | WT. LBS. | LOCATION | QUANTITY | TONNAGE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOTAL | SENSIBLE | EER | BTUH | HSPF | V | PH | Hz | MCA | MOCP | | | | | |
| AC 1 | YORK YC090 OR EQUAL | 90,600 (BTUH) | 72,480 (BTUH) | 11.7 | - | - | 460 | 3 | 60 | 17.6 | 25 | 387 | ROOF | 20 | 7.5 | R410a REFRIGERANT. HOUSEKEEPING PAD. REFRIGERANT LINES & INSULATION PER MANUFACTURERS SIZES/REQUIREMENTS. |
| AC 2 | YORK YC120 OR EQUAL | 120,600 (BTUH) | 69,480 (BTUH) | 11.7 | - | - | 460 | 3 | 60 | 23.5 | 30 | 497 | ROOF | 3 | 10 | R410a REFRIGERANT. HOUSEKEEPING PAD. REFRIGERANT LINES & INSULATION PER MANUFACTURERS SIZES/REQUIREMENTS. |

## SPLIT SYSTEM AIR HANDLING SCHEDULE

| MARK | MFR. MODEL | CFM | ESP IN.W.G. | HP | OSA MIN | DESIGN AMBIENT | ELECT. DATA-FAN | | | WT. LBS. | LOCATION | QUANTITY | TONNAGE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | V - Ø - Hz | MCA | MOCP | | | | | |
| AHU 1 | YORK NC090 | 3,000 | 0.5 | 2.0 | NA | 101°F/37°F | 460/3/60 | 4.3 | 15.0 | 500 | SEE PLANS | 20 | 7.5 | CEILING HUNG. PROVIDE WITH TXV AND MERV 13 FILTERS. INSTALL FLOAT SWITCH AND DRAIN PAN FOR SECONDARY CONDENSATE CONTAINMENT. PROVIDE A WATERTIGHT PAN OF CORROSION RESISTANT MATERIAL BENEATH FAN COIL UNITS PER SECTION 310.2 CMC & SMOKE DUCT DETECTOR IN SUPPLY DUCT. |
| AHU 2 | YORK NC120 | 4,000 | 0.5 | 3.0 | NA | 101°F/37°F | 460/3/60 | 5.9 | 15.0 | 550 | SEE PLANS | 3 | 10 | CEILING HUNG. PROVIDE WITH TXV AND MERV 13 FILTERS. INSTALL FLOAT SWITCH AND DRAIN PAN FOR SECONDARY CONDENSATE CONTAINMENT. PROVIDE A WATERTIGHT PAN OF CORROSION RESISTANT MATERIAL BENEATH FAN COIL UNITS PER SECTION 310.2 CMC & SMOKE DUCT DETECTOR IN SUPPLY DUCT. |

## PACKAGED ROOFTOP UNIT SCHEDULE

| MARK | AREA SERVED | UNIT LOCATION | CFM | MIN O.S.A. CFM | DESIGN AMBIENT (DEG. F.) | E.S.P. (IN. W.G.) | TOTAL COOLING MBH | SENSIBLE COOLING MBH | SEER | HTG. MBH | HSPF / COP | DESIGN AMBIENT (DEG. F.) | ELECTRICAL DATA | | | | MCA | MAX FUSE | OPER. WEIGHT | QUANTITY | MANUFACTURER & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | VOLTS | PH | HZ | HP | | | | | | |
| RTU 1 | SEE PLANS | ROOF | 3,000 | NA | 101/70 | 0.5 | 90.0 | 78.1 | 12.6 (IEER) | --- | - / 3.35 | 25.0 | 460 | 3 | 60 | 1.5 | 19.1 | 25 | 1,090 | 12 | YORK XP090COO | 1 2 3 4 |
| RTU 2 | SEE PLANS | ROOF | 4,000 | NA | 101/70 | 0.5 | 120.0 | 96.1 | 13.5 (IEER) | --- | - / 3.35 | 25.0 | 460 | 3 | 60 | 3.0 | 23.5 | 30 | 1,135 | 4 | YORK XP120COO | 1 2 3 4 |

PACKAGED HEAT PUMP UNITS - GENERAL NOTES:

1. PROVIDE WITH INTELLISPEED MOTOR, FACTORY ROOF CURB AND VIBRATION ISOLATION.
2. PROVIDE WITH DUCT MOUNTED SMOKE DETECTOR ON MAIN SUPPLY DUCT. COORDINATE WITH ELECTRICAL
3. PROVIDE CALIFORNIA TITLE 24 COMPLIANT PROGRAMMABLE THERMOSTAT.
4. PROVIDE MINIMUM MERV 13 FILTERS.
5. SEE ROOF PLAN FOR DUCT DISCHARGE.

## GRILLE - DIFFUSER - REGISTER SCHEDULE

| MARK | SIZE | NECK SIZE | TYPE | MANUFACTURER AND MODEL | DESCRIPTION | FINISH | REMARKS |
|---|---|---|---|---|---|---|---|
| A | 24x24 | SEE PLANS | SEE ARCH RCP | "KREUGER" 1240P | SUPPLY AIR DIFFUSER | WHITE | 1 2 |
| B | 18x12 | SEE PLANS | DUCT MOUNT | "KREUGER" 880 | DUCT MOUNT SUPPLY AIR GRILLE | MATCH DUCT | 1 2 |
| C | 24x24 | SEE PLANS | SEE ARCH RCP | "KREUGER" 6690 | RETURN GRILLE | WHITE | 1 2 |
| | | | | | | | |

1 ALUMINUM CONSTRUCTION. 2 MOUNT PER TYPICAL DETAIL.

## MECHANICAL LEGEND

| SYMBOL | ABBREV. | DESCRIPTION |
|---|---|---|
| | | FLEXIBLE DUCTWORK |
| | | SUPPLY DUCT PLENUM |
| | | RETURN DUCT PLENUM |
| | E.R./E.G. | EXHAUST REGISTER/EXHAUST GRILLE |
| T | | THERMOSTAT MOUNT AT 48" AFF |
| SD | | SMOKE DETECTOR |
| UC | U.C. | UNDERCUT DOOR 1/2" BY G.C. |
| DL | D.L. | DOOR LOUVER |

## GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC ONLY, AND ILLUSTRATE GENERAL INTENT OF DUCTWORK / PIPE ROUTING, EQUIPMENT LOCATION, MOUNTING, ETC. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF AS-BUILT DRAWINGS ON SITE AT ALL TIMES DURING CONSTRUCTION.
2. CODES: ALL HEATING, AIR CONDITIONING, AND VENTILATING WORK SHALL CONFIRM TO THE LATEST REQUIREMENTS OF THE CALIFORNIA BUILDING/MECHANICAL/PLUMBING CODES (2019), 2019 TITLE 24 ENERGY COMMISSION NON-RESIDENTIAL STANDARDS, N.F.P.A. AND THE LOCAL MECHANICAL CODE AND ANY OTHER LEGALLY CONSTITUTED BODY HAVING JURISDICTION THEREOF.
3. PERMITS: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL FEES, PERMITS, AND LICENSES REQUIRED FOR THE INSTALLATION OF THE WORK AND SHALL DELIVER SAME TO THE OWNERS REPRESENTATIVE/ARCHITECT.
4. SHEET METAL DUCTWORK: ALL SUPPLY AND RETURN DUCTWORK MAINS AND BRANCHES SHALL BE A MINIMUM 26 GA. GALVANIZED SHEET METAL IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL, AND LOCAL CODES. SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED PER NON-RESIDENTIAL TITLE 24.
5. FLEXIBLE DUCTWORK: DUCTWORK SHALL BE INSULATED HIGH PRESSURE FLEXIBLE DUCT WITH A FACTORY ASSEMBLY CONSISTING OF A GALVANIZED SPRING STEEL WIRE HELIX, A CONTINUOUS INNER LINER WRAPPED WITH NOMINAL 1 IN. THICK BY 1 LB/CU. DENSITY GLASS FIBER INSULATION. THE ASSEMBLY SHALL BE ENCLOSED IN A CLASS 1 FIRE RESISTIVE VAPOR BARRIER JACKET, FACTORY SEALED AT BOTH ENDS. THE FLEXIBLE DUCT SHALL BE LISTED BY U.L. AND SHALL CONFORM TO THE 90-A CLASS 1 REQUIREMENTS OF THE N.F.P.A. FLEXIBLE DUCT SHALL BE INSULATED IN FULLY EXTENDED CONDITION FREE OF SAGS AND KINKS AS FAR AS PRACTICAL. MINIMUM THERMAL RESISTANCE SHALL BE PER TITLE 24. FLEXIBLE DUCT SHALL BE GLASS-FLEX, CAL-FLEX, CASCO OR APPROVED EQUAL.
6. EQUIPMENT: SHALL BE MODEL, TYPE AND CAPACITIES AS INDICATED ON THE DRAWINGS AND SHALL MEET OR EXCEED THE MINIMUM EFFICIENCY AS LISTED IN THE T24 BUILDING ENERGY EFFICIENCY STANDARDS.
7. CONTROLS: SHALL BE FURNISHED AND INSTALLED AS INDICATED ON THE DRAWINGS. THERMOSTATS: ALL THERMOSTATS TO BE TITLE-24 APPROVED. THERMOSTATS TO BE PROGRAMMABLE WITH NIGHT SET BACK FEATURES AND AUTOMATIC COOLING/ HEATING MODE CHANGE-OVER.
8. CERTIFICATE OF ACCEPTANCE AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
9. ALL HVAC SYSTEMS SHALL MEET THE THE CONTROL REQUIREMENTS PER SECTION 112 AND 122 E.E.S.
10. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 111-113, 115, 120-124 TITLE 24 ENERGY STANDARDS.
11. VENTILATION AIR SHALL NOT BE TRANSFERRED FROM ADJACENT DWELLING UNITS, GARAGES, OR CRAWLSPACES.
12. AIR INLETS (NOT EXHAUST) SHALL BE LOCATED AWAY FROM KNOWN CONTAMINANTS.
13. OCCUPIED AREAS OF MECHANICALLY VENTILATED BUILDINGS SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST MERV OF 8.
14. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL START-UP OF HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED 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 PER SECTION 5.504.3 OF THE CALIFORNIA GREEN BUILDING.
15. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SEC. 504.0 CMC.
16. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING, ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS, NEBB PROCEDURAL STANDARDS, OR AABC NATIONAL STANDARDS.
17. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER REGULATIONS.
18. PER CMC 603.4.1, MAXIMUM LENGTH LIMITATIONS FOR FACTORY MADE FLEXIBLE AIR DUCTS IS LIMITED TO FIVE FEET (5') AND MAY NOT BE USED FOR RIGID ELBOWS OR FITTINGS.

## TITLE 24 NOTES

1. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2(b) AND 110.2(c).
2. CERTIFICATE OF ACCEPTANCE AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
3. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 and 110.7.

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## VRF HEAT PUMP SCHEDULE

| MARK | MFR. MODEL | COOLING | | | HEATING | | CIRCUIT | ELECT. | | | | | WT. LBS. | LOCATION | SERVICE | QUANTITY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOTAL | SENSIBLE | EFFICIENCY | BTUH | COP | | V | PH | Hz | MCA | MOCP | | | | | |
| VRV 1 | SAMSUNG AM168HXVAJH (OR EQUAL) | 168,000 (BTUH) | 134,400 (BTUH) | 11.6 EER 23.8 IEER | 180,000 | 3.2 | 1 (14.0 TONS) | 460 | 3 | 60 | 33.0 | 40 | 703 | ROOF | SEE PLANS | 2 | R410a REFRIGERANT. HOUSEKEEPING PAD, LOW AMBIENT CONTROL, LIQUID SOLENOID VALVE, FILTER DRIER, SIGHT GLASS. PROVIDE WITH BRANCH SELECTOR BOX FOR EACH CIRCUIT. 208/1/60 ELECTRICAL POWER. REFRIGERANT LINES & INSULATION SHALL BE CLOSELY COORDINATED WITH MANUFACTURER BASED ON EXACT LOCATION OF FAN COIL UNITS TO ENSURE PROPER SIZES/REQUIREMENTS. |

## VRF FAN COIL SCHEDULE

| MARK | MFR. MODEL | CFM | ESP IN.W.G. | HP | OSA MIN | DESIGN AMBIENT | ELECT. DATA-FAN | | | WT. LBS. | LOCATION | SERVICE | TONNAGE | QUANTITY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | V - Ø - Hz | MCA | MOCP | | | | | | |
| FC 1 | SAMSUNG AM012RN4DCH | 400 | 0.1 | - | - | 97°F/47°F | 208/1/60 | 0.2 | 15 | 13 | CEILING CASSETTE | SEE PLANS | 1 | 13 | CEILING CASSETTE. PROVIDE WITH FACTORY THERMOSTAT AND CONDENSATE PUMP. |
| FC 2 | SAMSUNG AM018RN4DCH | 600 | 0.1 | - | - | 97°F/47°F | 208/1/60 | 0.4 | 15 | 13 | CEILING CASSETTE | SEE PLANS | 1.5 | 2 | CEILING CASSETTE. PROVIDE WITH FACTORY THERMOSTAT AND CONDENSATE PUMP. |
| FC 3 | SAMSUNG AM024RN4DCH | 775 | 0.1 | - | - | 97°F/47°F | 208/1/60 | 0.4 | 15 | 13 | CEILING CASSETTE | SEE PLANS | 2 | 2 | CEILING CASSETTE. PROVIDE WITH FACTORY THERMOSTAT AND CONDENSATE PUMP. |
| FC 4 | SAMSUNG AM036RN4DCH | 1,000 | 0.1 | - | - | 97°F/47°F | 208/1/60 | 0.8 | 15 | 13 | CEILING CASSETTE | SEE PLANS | 3 | 3 | CEILING CASSETTE. PROVIDE WITH FACTORY THERMOSTAT AND CONDENSATE PUMP. |
| FC 5 | SAMSUNG AM018TNVDCH | 600 | 0.1 | - | - | 97°F/47°F | 208/1/60 | 0.4 | 15 | 27 | WALL | SEE PLANS | 1.5 | 6 | WALL MOUNTED. PROVIDE WITH FACTORY THERMOSTAT AND CONDENSATE PUMP. |
| FC 6 | SAMSUNG AM024TNVDCH | 800 | 0.1 | - | - | 97°F/47°F | 208/1/60 | 0.4 | 15 | 27 | WALL | SEE PLANS | 2 | 2 | WALL MOUNTED. PROVIDE WITH FACTORY THERMOSTAT AND CONDENSATE PUMP. |
| FC 7 | SAMSUNG AM048JNZDCH | 1,400 | 0.3 | - | - | 97°F/47°F | 208/1/60 | 2.6 | 15 | 157 | CEILING | SEE PLANS | 4 | 1 | MULTI-POSITION AIR HANDLER. CEILING HUNG. PROVIDE WITH FACTORY THERMOSTAT AND NON CORROSIVE DRAIN PAN WITH FLOAT SWITCH FOR SECONDARY CONDENSATE CONTAINMENT. |

CONTRACTOR TO VERIFY EXACT AMOUNT PRIOR TO ORDERING.

## EXHAUST FAN SCHEDULE

| UNIT NO. | LOCATION | UNIT | FAN TYPE | C.F.M. | EXT. S.P. (IN. W.G.) | SONES (HVI) | HP (WATTS) | FLA | ELECTRICAL V./PH./HZ. | LIGHTING LAMP WATTS | WEIGHT (LBS) | QUANTITY | MANUFACTURER & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF 1 | CEILING | RESTROOM/ JANITOR | CEILING | 110 | 0.375" | 2.5 | 53W | - | 120/1/60 | --- | 15 | 5 | "GREENHECK" SP-AP0511W | INTERLOCK WITH LIGHT SWITCH. PROVIDE WITH BACKDRAFT DAMPER. |
| EF 2 | ROOF | MANUFACTURING ROOM | UPBLAST | 600 | 0.375" | 28.0 | 160W | - | 120/1/60 | --- | 30 | 1 | "GREENHECK" CUBE-100 | INTERLOCK WITH LIGHT SWITCH. PROVIDE WITH BACKDRAFT DAMPER AND FACTORY ROOF CURB. |
| EF 3 | ROOF | EQUIPMENT ROOM | UPBLAST | 2,400 | 0.375" | 28.0 | 0.75 HP | - | 120/1/60 | --- | 30 | 1 | "GREENHECK" CUBE-160 | CONTROL WITH SEPARATE ON/OFF SWITCH. PROVIDE WTIH BACKDRAFT DAMPER AND FACTORY ROOF CURB. |
| EF 4 | ROOF | GROW ROOM | UPBLAST | 2,000 | 0.375" | 28.0 | 0.75 HP | - | 120/1/60 | --- | 30 | 13 | "GREENHECK" CUBE-160 | INTERLOCK WITH CO2 CONTROLLER. PROVIDE WITH BACKDRAFT DAMPER AND FACTORY ROOF CURB. |
| EF 5 | CEILING | EXTRACTION BOOTH | INLINE | 1,000 | 0.375" | 14.0 | 0.33 HP | - | 120/1/60 | --- | 85 | 1 | "GREENHECK" BSQ-100 | INTERLOCK WITH GAS DETECTION CONTROLLER. PROVIDE WITH BACKDRAFT DAMPER AND FACTORY VIBRATION ISOLATION. |

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# SEQUENCE OF OPERATIONS

EXHAUST AND MAKE-UP AIR SEQUENCE:
THE FAN SHALL POWER ON BASED ON WALL SWITCH POSITION.

THE SYSTEM SHALL BE DESIGNED AS FOLLOWS:

1. ACTIVATES A LOW-LEVEL ALARM UPON DETECTION OF A CARBON DIOXIDE CONCENTRATION OF 5,000 PPM (9,000 MG/M3).
2. ACTIVATES A HIGH-LEVEL ALARM UPON DETECTION OF A CARBON DIOXIDE CONCENTRATION OF 30,000 PPM (54,000MG/M3).

ACTIVATION OF THE LOW-LEVEL GAS DETECTION SYSTEM ALARM SHALL AUTOMATICALLY:
1. STOP THE FLOW OF CO2 TO THE PIPING SYSTEM.
2. ACTIVATE THE MECHANICAL EXHAUST VENTILATION SYSTEM.
3. ACTIVATE AN AUDIBLE AND VISIBLE SUPERVISORY ALARM SIGNAL AT AN APPROVED LOCATION WITHIN THE BUILDING.

ACTIVATION OF THE HIGH-LEVEL GAS DETECTION SYSTEM ALARM SHALL AUTOMATICALLY:
1. STOP THE FLOW OF CO2 TO THE PIPING SYSTEM.
2. ACTIVATE THE MECHANICAL EXHAUST VENTILATION SYSTEM. 3. ACTIVATE AN AUDIBLE AND VISIBLE EVACUATION ALARM SIGNAL AT AN APPROVED LOCATION WITHIN THE BUILDING.

# CO2 VENTILATION ROOM NOTES:

CFC 5307.4.4 PRESSURIZATION AND VENTILATION. ROOMS OR INDOOR AREAS IN WHICH CO2 ENRICHMENT IS PROVIDED SHALL BE MAINTAINED AT A NEGATIVE PRESSURE IN RELATION TO THE SURROUNDING AREAS IN THE BUILDING. A MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE.

EXHAUST VENTILATION SYSTEM SHALL COMPLY WITH ALL OF THE FOLLOWING:

1. MECHANICAL VENTILATION IN THE ROOM OR AREA SHALL BE AT A RATE OF NOT LESS THAN 1 CFM PER SQ. FT.

2. WHEN ACTIVATED BY THE GAS DETECTION SYSTEM, THE MECHANICAL VENTILATION SYSTEM SHALL REMAIN ON UNTIL MANUALLY RESET.

3. THE EXHAUST SYSTEM INTAKES SHALL BE TAKEN FROM POINTS WITHIN 12 INCHES OF THE FLOOR.

4. THE VENTILATION SYSTEM SHALL DISCHARGE TO THE OUTDOORS IN AN APPROVED LOCATION.

# KEY NOTES:

1. DUCTLESS WALL MOUNTED FAN COIL UNIT. FIELD COORDINATE EXACT LOCATION AND HEIGHT IN FIELD.
2. DUCTLESS CEILING HUNG CASSETTE FAN COIL UNIT.
3. 16"Ø EXHAUST DUCT FOR CO2 PURGE DOWN FROM EF-4 ON ROOF. TERMINATE EXHAUST DUCT 12"AFF AND PROVIDE WITH 1/4" MESH SCREEN AT EXHAUST DUCT INLET.
4. CEILING HUNG AIR HANDLING UNIT
5. 8"BATHROOM EXHAUST DUCT UP INSIDE WALL TO ROOF.
6. CEILING MOUNTED EXHAUST FAN. ROUTE EXHAUST DUCT UP THRU ROOF TO CAP.
7. WALK-IN COOLER EVAPORATOR. ROUTE 3/4" CONDENSATE TO FLOOR SINK. REFER TO PLUMBING PLANS.

# GENERAL NOTES:

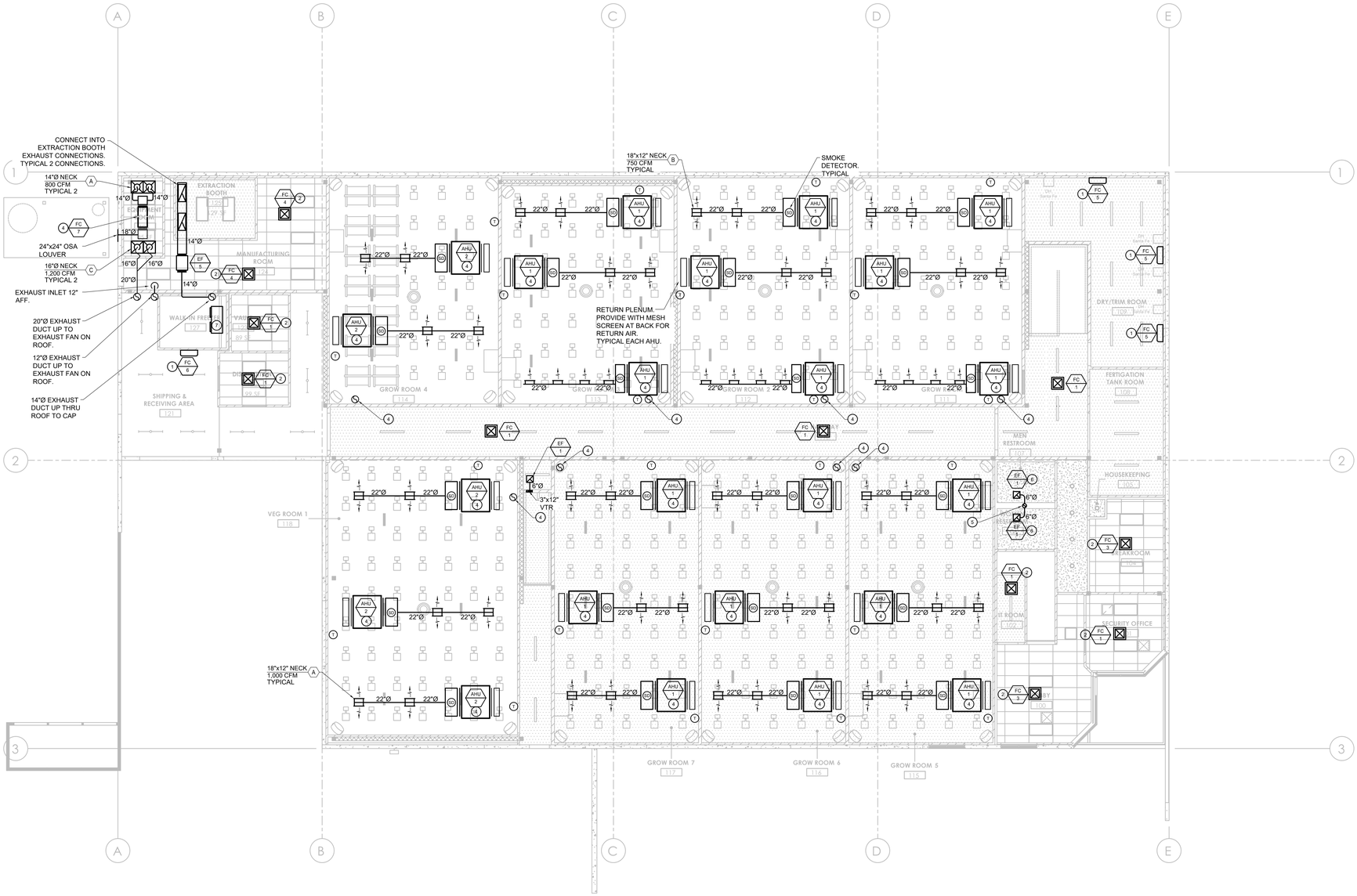
1. INSTALL MECHANICAL EQUIPMENT AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND CLEARANCES.

2. ENVIRONMENTAL EXHAUST DUCT TERMINATIONS MAY BE NO CLOSER THAN 3' FROM A PROPERTY LINE OR TO AN OPENING BACK INTO THE BUILDING AND 10'-0" FROM OSA INTAKE.

3. COORDINATE FINAL THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLATION.

4. ALL BRANCH DUCTWORK SHALL BE EQUIPPED WITH MANUAL VOLUME DAMPERS FOR AIR BALANCING.

5. REFER TO PLUMBING PLANS FOR CONDENSATE ROUTING.




MECHANICAL FLOOR PLAN LEVEL 1
SCALE: 1/8"=1'-0" (1)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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

MECHANICAL FLOOR PLAN
LEVEL 1

| REMARKS | DATE |
|---|---|
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# SEQUENCE OF OPERATIONS

EXHAUST AND MAKE-UP AIR SEQUENCE:
THE FAN SHALL POWER ON BASED ON WALL SWITCH POSITION.

THE SYSTEM SHALL BE DESIGNED AS FOLLOWS:

1. ACTIVATES A LOW-LEVEL ALARM UPON DETECTION OF A CARBON DIOXIDE CONCENTRATION OF 5,000 PPM (9,000 MG/M3).
2. ACTIVATES A HIGH-LEVEL ALARM UPON DETECTION OF A CARBON DIOXIDE CONCENTRATION OF 30,000 PPM (54,000MG/M3).

ACTIVATION OF THE LOW-LEVEL GAS DETECTION SYSTEM ALARM SHALL AUTOMATICALLY:
1. STOP THE FLOW OF CO2 TO THE PIPING SYSTEM.
2. ACTIVATE THE MECHANICAL EXHAUST VENTILATION SYSTEM.
3. ACTIVATE AN AUDIBLE AND VISIBLE SUPERVISORY ALARM SIGNAL AT AN APPROVED LOCATION WITHIN THE BUILDING.

ACTIVATION OF THE HIGH-LEVEL GAS DETECTION SYSTEM ALARM SHALL AUTOMATICALLY:
1. STOP THE FLOW OF CO2 TO THE PIPING SYSTEM.
2. ACTIVATE THE MECHANICAL EXHAUST VENTILATION SYSTEM. 3. ACTIVATE AN AUDIBLE AND VISIBLE EVACUATION ALARM SIGNAL AT AN APPROVED LOCATION WITHIN THE BUILDING.

# CO2 VENTILATION ROOM NOTES:

CFC 5307.4.4 PRESSURIZATION AND VENTILATION. ROOMS OR INDOOR AREAS IN WHICH CO2 ENRICHMENT IS PROVIDED SHALL BE MAINTAINED AT A NEGATIVE PRESSURE IN RELATION TO THE SURROUNDING AREAS IN THE BUILDING. A MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE.

EXHAUST VENTILATION SYSTEM SHALL COMPLY WITH ALL OF THE FOLLOWING:

1. MECHANICAL VENTILATION IN THE ROOM OR AREA SHALL BE AT A RATE OF NOT LESS THAN 1 CFM PER SQ. FT.

2. WHEN ACTIVATED BY THE GAS DETECTION SYSTEM, THE MECHANICAL VENTILATION SYSTEM SHALL REMAIN ON UNTIL MANUALLY RESET.

3. THE EXHAUST SYSTEM INTAKES SHALL BE TAKEN FROM POINTS WITHIN 12 INCHES OF THE FLOOR.

4. THE VENTILATION SYSTEM SHALL DISCHARGE TO THE OUTDOORS IN AN APPROVED LOCATION.

# KEY NOTES:

1. DUCTLESS WALL MOUNTED FAN COIL UNIT. FIELD COORDINATE EXACT LOCATION AND HEIGHT IN FIELD.
2. DUCTLESS CEILING HUNG CASSETTE FAN COIL UNIT.
3. 16"Ø EXHAUST DUCT FOR CO2 PURGE DOWN FROM EF-4 ON ROOF. TERMINATE EXHAUST DUCT 12"AFF AND PROVIDE WITH 1/4" MESH SCREEN AT EXHAUST DUCT INLET.
4. 16"Ø EXHAUST DUCT FOR CO2 PURGE DOWN FROM EF-4 ON ROOF TO LEVEL 1.
5. 8"BATHROOM EXHAUST DUCT FROM BELOW UP THRU ROOF TO CAP.
6. CEILING MOUNTED EXHAUST FAN. ROUTE EXHAUST DUCT UP THRU ROOF TO CAP.
7. ROOFTOP ACCESS LADDER. SEE ARCHITECTURAL.
8. RUSKIN CDF-20 OR EQUIVALENT CONCENTRIC DIFFUSER.
9. RUSKIN CDF-22 OR EQUIVALENT CONCENTRIC DIFFUSER.

# GENERAL NOTES:

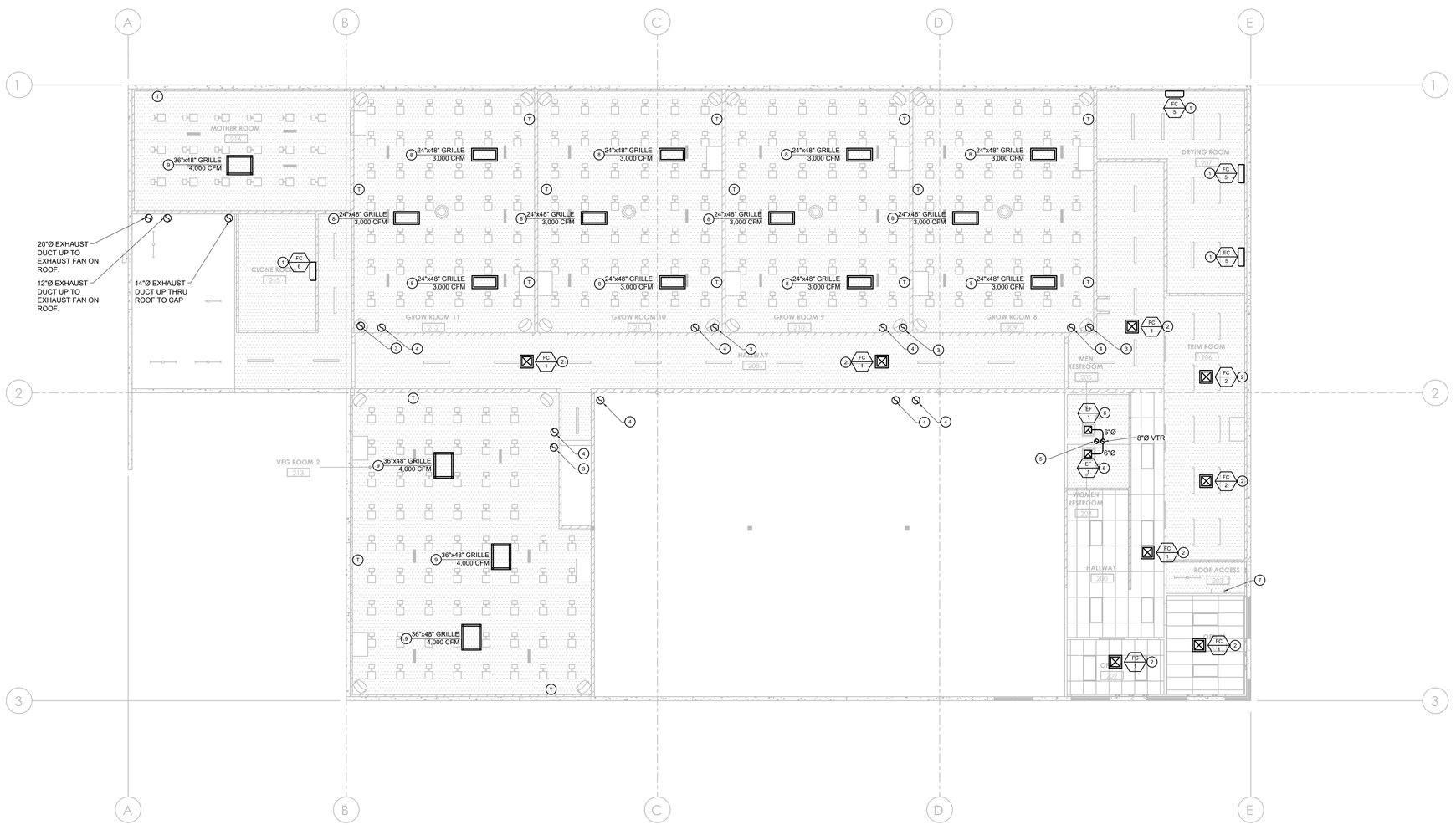
1. INSTALL MECHANICAL EQUIPMENT AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND CLEARANCES.

2. ENVIRONMENTAL EXHAUST DUCT TERMINATIONS MAY BE NO CLOSER THAN 3' FROM A PROPERTY LINE OR TO AN OPENING BACK INTO THE BUILDING AND 10'-0" FROM OSA INTAKE.

3. COORDINATE FINAL THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLATION.

4. ALL BRANCH DUCTWORK SHALL BE EQUIPPED WITH MANUAL VOLUME DAMPERS FOR AIR BALANCING.

5. REFER TO PLUMBING PLANS FOR CONDENSATE ROUTING.




MECHANICAL FLOOR PLAN LEVEL 2
SCALE: 1/8"=1'-0" (1)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JESSE VANDER VEEN
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MECHANICAL FLOOR PLAN LEVEL 2

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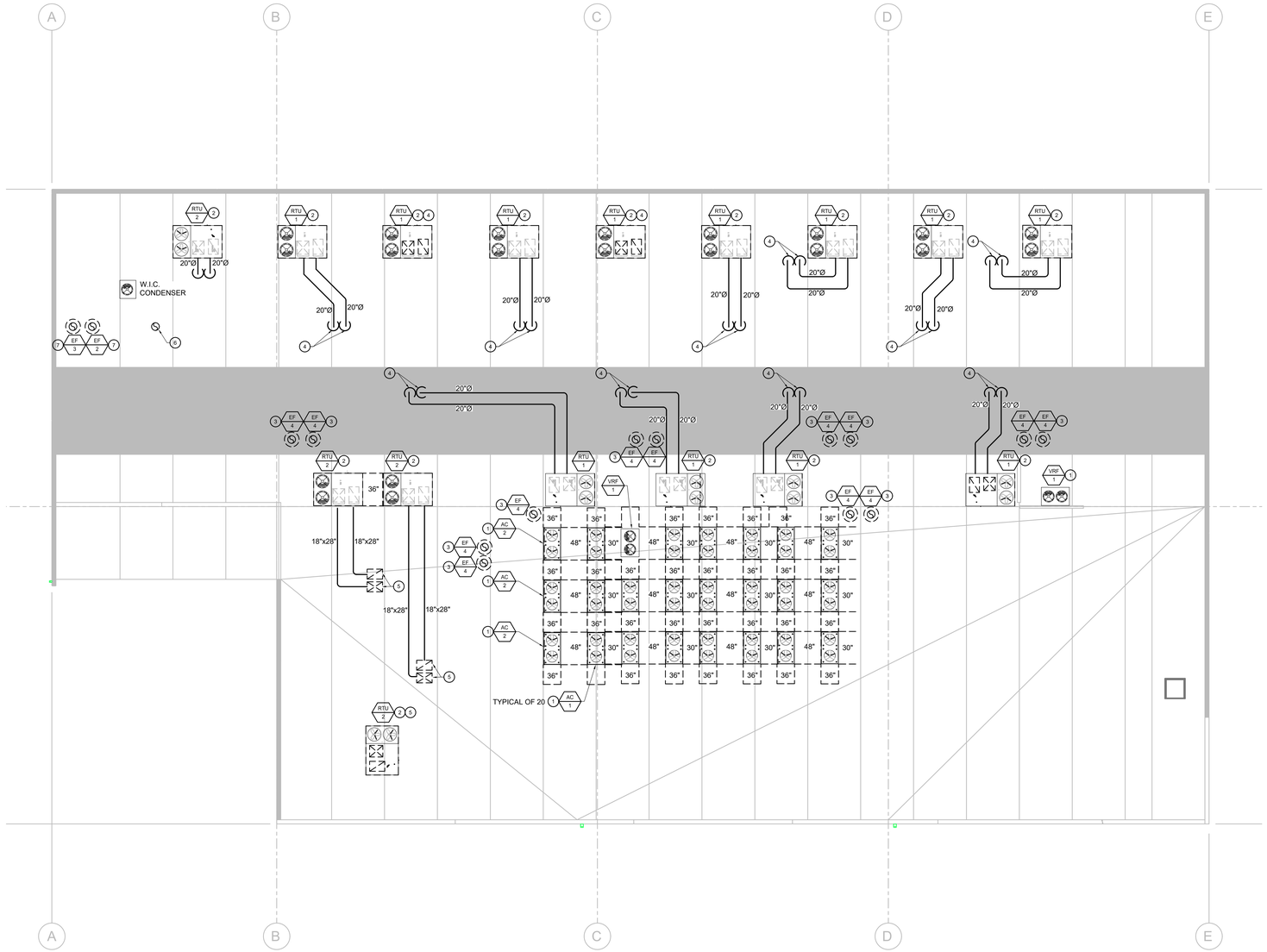
## KEY NOTES:

1. OUTDOOR CONDENSING UNIT ON ROOF CURB. ROUTE REFRIGERATION LINES PER MANUFACTURER REQUIREMENTS TO CORRESPONDING AIR HANDLING UNIT.
2. PACKAGED ROOFTOP UNIT ON ROOF CURB.
3. EXHAUST FAN ON ROOF CURB. ROUTE 16"Ø DUCT DOWN TO ROOM BELOW.
4. ROUTE 20"Ø SUPPLY AND RETURN DUCT DOWN TO CONCENTRIC DIFFUSER AT LEVEL BELOW.
5. ROUTE 28"x18" SUPPLY AND RETURN DUCT DOWN TO CONCENTRIC DIFFUSER AT LEVEL BELOW.
6. 14"Ø EXTRACTION BOOTH EXHAUST DUCT UP THRU ROOF TO CAP.
7. EXHAUST FAN ON ROOF CURB. ROUTE EXHAUST DUCT DOWN TO LEVEL 1.

## GENERAL NOTES:

1. INSTALL MECHANICAL EQUIPMENT AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND CLEARANCES.
2. ENVIRONMENTAL EXHAUST DUCT TERMINATIONS MAY BE NO CLOSER THAN 3' FROM A PROPERTY LINE OR TO AN OPENING BACK INTO THE BUILDING AND 10'-0" FROM OSA INTAKE.




MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"

1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# FRESHMADE GROW

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MECHANICAL ROOF PLAN

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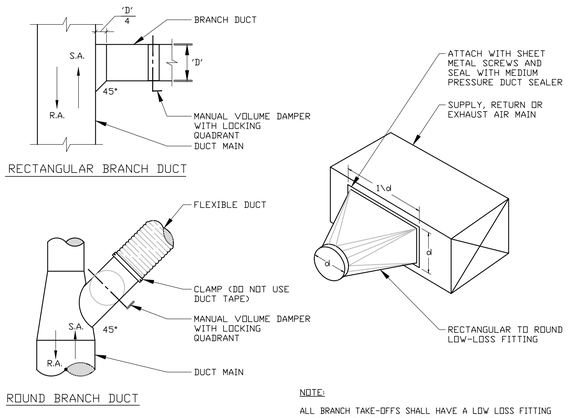
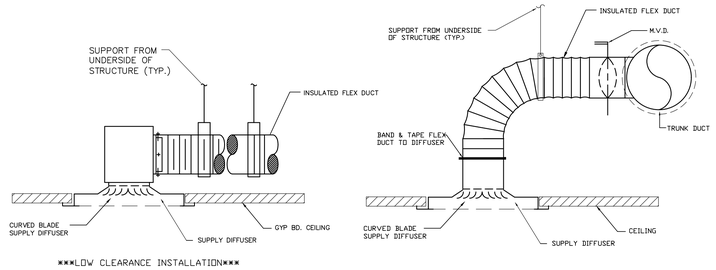



NOTE:

ALL BRANCH TAKE-OFFS SHALL HAVE A LOW LOSS FITTING WHETHER SHOWN ON THE FLOOR PLAN OR NOT.

## TYPICAL BRANCH DUCT DETAILS 3

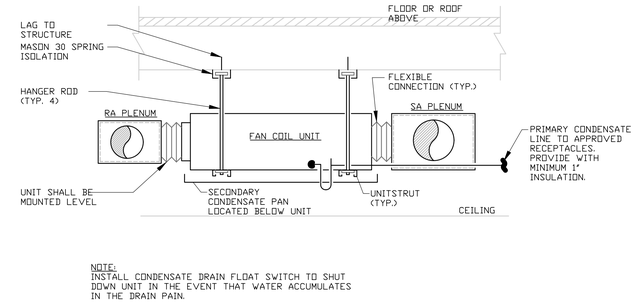
SCALE: NONE




***LOW CLEARANCE INSTALLATION***

## CEILING DIFFUSER/CEILING RETURN GRILLE 2

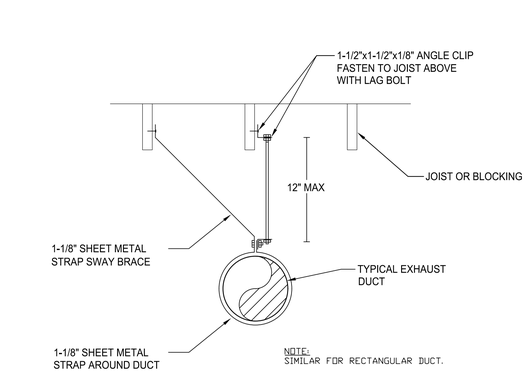
SCALE: NONE




NOTE:
INSTALL CONDENSATE DRAIN FLOAT SWITCH TO SHUT DOWN UNIT IN THE EVENT THAT WATER ACCUMULATES IN THE DRAIN PAIN.

## HORIZONTAL FC MOUNTING INSTALLATION 1

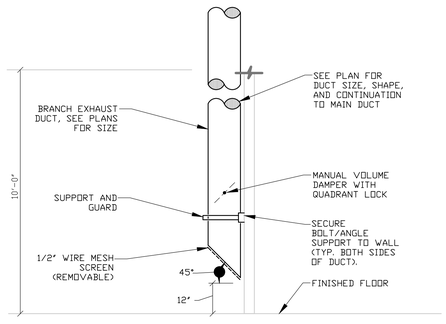
SCALE: NONE




NOTE:
SIMILAR FOR RECTANGULAR DUCT.

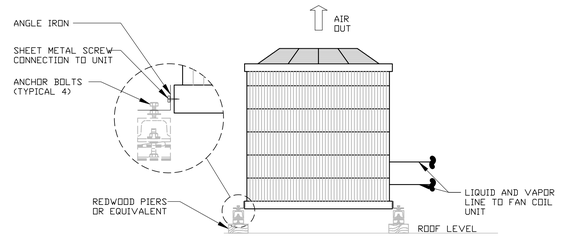
## TYPICAL DUCT MOUNT DETAIL 6

SCALE: NONE



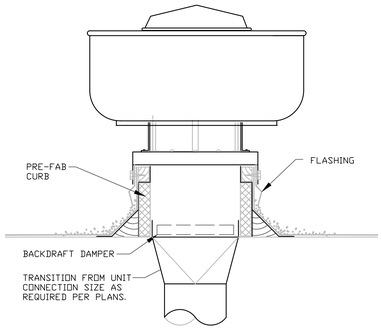

## BRANCH EXHAUST DUCT TERMINATION 9

SCALE: NONE



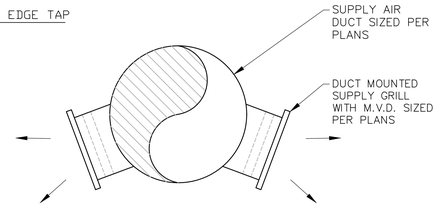

## CONDENSING UNIT DETAIL 5

SCALE: NONE



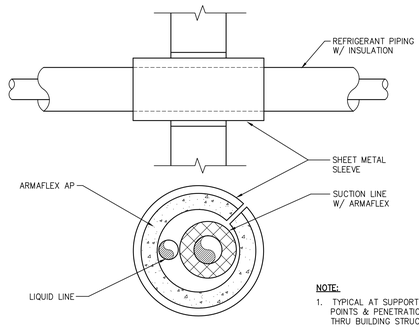

## ROOF MOUNTED EXHAUST FAN DETAIL -

SCALE: NONE




## DUCT MOUNTED GRILLE 4

SCALE: NONE




NOTE:
1. TYPICAL AT SUPPORT POINTS & PENETRATIONS THRU BUILDING STRUCTURE.
2. PROVIDE PROTECTIVE JACKET FOR WEATHER PROTECTION AT ALL EXPOSED CONDICTIONS AND HIGH TRAFFIC AREAS.

## REFRIGERATION PIPE PENETRATION 7

SCALE: NONE

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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

MECHANICAL DETAILS

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STATE OF CALIFORNIA
## Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
|---|---|---|---|
| This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations. | | | |
| **Project Name:** | Freshmade Grow | **Report Page:** | **(Page 1 of 19)** |
| **Project Address:** | 4517 Littlejohn St | **Date Prepared:** | 4/13/2021 |

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Baldwin Park | 04 | Total Conditioned Floor Area | 22452 |
| 02 | Climate Zone | 9 | 05 | Total Unconditioned Floor Area | 0 |
| 03 | Occupancy Types Within Project: | | 06 | # of Stories (Habitable Above Grade) | 1 |
| ☒ Office (B) | | ☐ Retail (M) | ☒ Non-refrigerated Warehouse (S) | | |
| ☐ Hotel/ Motel Guest Rooms (R-1) | | ☐ School (E) | ☐ Healthcare Facility (I) | | |
| ☐ High-Rise Residential (R-2/R-3) | | ☐ Relocatable Class Bldg (E) | ☒ Other (write in) | | See Table J |

**B. PROJECT SCOPE**

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

| 01 | | 02 | | 03 | |
|---|---|---|---|---|---|
| Air System(s) | | Wet System Components | | Dry System Components | |
| ☒ | Heating Air System | ☐ | Water Economizer | ☐ | Air Economizer |
| ☒ | Cooling Air System | ☐ | Pumps | ☐ | Electric Resistance Heat |
| Mechanical Controls | | ☐ | System Piping | ☒ | Fan Systems |
| ☒ | Mechanical Controls (existing to remain, altered or new) | ☐ | Cooling Towers | ☒ | Ductwork (existing to remain, altered or new) |
| | | ☐ | Chillers | ☒ | Ventilation |
| | | ☐ | Boilers | ☐ | Zonal Systems/ Terminal Boxes |

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STATE OF CALIFORNIA
## Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
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| **Project Name:** | Freshmade Grow | **Report Page:** | **(Page 2 of 19)** |
| **Project Address:** | 4517 Littlejohn St | **Date Prepared:** | 4/13/2021 |

**C. COMPLIANCE RESULTS**

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | 09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| System Summary §110.1, §110.2, §140.4 | AND | Pumps §140.4(k) | AND | Fans/ Economizers §140.4(c), §140.4(e) | AND | System Controls §110.2, §120.2, §140.4(f) | AND | Ventilation §120.1 | AND | Terminal Box Controls §140.4(d) | AND | Distribution §120.3, §140.4(l) | AND | Cooling Towers §110.2(e)2 | Compliance Results |
| (See Table F) | | (See Table G) | | (See Table H) | | (See Table I) | | (See Table J) | | (See Table K) | | (See Table L) | | (See Table M) | |
| No | AND | | AND | No | AND | Yes | AND | Yes | AND | | AND | Yes | AND | | DOES NOT COMPLY |
| Mandatory Measures Compliance (See Table Q 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.

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STATE OF CALIFORNIA
## Mechanical Systems
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| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
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| **Project Name:** | Freshmade Grow | **Report Page:** | **(Page 3 of 19)** |
| **Project Address:** | 4517 Littlejohn St | **Date Prepared:** | 4/13/2021 |

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

**Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Equipment Category per Tables 110.2 | Equipment Type per Tables 110.2 / Title 20 | Smallest Size Available[1] §140.4(a) | Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b) | | | | | | |
| | | | | Heating Output[2,3] | | | Cooling Output[2,3] | | Load Calculations[3,4] | |
| | | | | Per Design (kBtu/h) | Rated (kBtu/h) | Supp. Heating Output (kBtu/h) | Sensible Per Design (kBtu/h) | Rated (kBtu/h) | Total Heating Load (kBtu/h) | Total Sensible Cooling Load (kBtu/h) |
| AHU-1 | Unitary AC/ Condensers | AC, air cooled, split (3 phase) | NA: Load Controls | 0 | 0 | 0 | 1810.01 | 72.48 | -108.48 | 1823.47 |
| AHU-2 | Unitary AC/ Condensers | AC, air cooled, split (3 phase) | NA: Load Controls | 0 | 0 | 0 | 481.08 | 96.48 | -33.55 | 357.28 |
| RTU-1 | Unitary AC/ Condensers | AC, air-cooled pkg (3 phase) | NA: Load Controls | 0 | 0 | 0 | 1084.84 | 78.1 | -57.28 | 1021.97 |
| RTU-2 | Unitary AC/ Condensers | AC, air cooled, split (3 phase) | NA: Load Controls | 0 | 0 | 0 | 480.5 | 96.1 | -21.7 | 400.23 |
| VRF-1 | Variable Refrigerant Flow | VRF heat pump, air cooled | NA: Load Controls | 348.77 | 180 | 0 | 309.15 | 134.4 | 12.93 | 207.68 |

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.
[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

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## Mechanical Systems
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| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
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| **Project Address:** | 4517 Littlejohn St | **Date Prepared:** | 4/13/2021 |

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

**Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Size Category (Btu/h) | Heating Mode | | | | Cooling Mode | | |
| | | Rating Condition (°F) | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency |
| AHU-1 | >=65,000 and <135,000 | | | | | EER<br>IEER | 11.2<br>12.9 | 11.7<br>12.7 |
| AHU-2 | >=65,000 and <135,000 | | | | | EER<br>IEER | 11.2<br>12.9 | 11.7<br>12.7 |
| RTU-1 | >=65,000 and <135,000 | | | | | EER<br>IEER | 11.2<br>12.9 | 11.7<br>12.6 |
| RTU-2 | >=65,000 and <135,000 | | | | | EER<br>IEER | 11.2<br>12.9 | 11.7<br>13.5 |
| VRF-1 | >=135,000 and <240,000 | 47 °Fdb/ 43 °Fwb OSA | COP | 3.2 | 3.2 | EER<br>IEER | 10.6<br>13.9 | 11.6<br>23.8 |

**G. PUMPS**

This section does not apply to this project.

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STATE OF CALIFORNIA
## Mechanical Systems
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| **Project Name:** | Freshmade Grow | **Report Page:** | **(Page 5 of 19)** |
| **Project Address:** | 4517 Littlejohn St | **Date Prepared:** | 4/13/2021 |

**H. FAN SYSTEMS & AIR ECONOMIZERS**

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

| System Name: | AHU-1 | Economizer:[1] | NA: Special OA filtration | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit[2] | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| SF | Supply | 20 | 60000 | BHP | 1.25 | NA | NA |
| Total System Design Supply Airflow (CFM): | | | 60000 | Total System Design (B)HP: | 25 | Maximum System Fan Power (B)HP: | 2.82 |

| System Name: | AHU-2 | Economizer:[1] | NA: Special OA filtration | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit[2] | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| SF | Supply | 4 | 16000 | BHP | 2 | NA | NA |
| Total System Design Supply Airflow (CFM): | | | 16000 | Total System Design (B)HP: | 8 | Maximum System Fan Power (B)HP: | 3.76 |

| System Name: | RTU-1 | Economizer:[1] | NA: Special OA filtration | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit[2] | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| SF | Supply | 12 | 36000 | BHP | 1.1 | NA | NA |
| Total System Design Supply Airflow (CFM): | | | 36000 | Total System Design (B)HP: | 13.2 | Maximum System Fan Power (B)HP: | 2.82 |

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**H. FAN SYSTEMS & AIR ECONOMIZERS**

| System Name: | RTU-2 | Economizer:[1] | NA: Special OA filtration | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit[2] | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| SF | Supply | 4 | 12000 | BHP | 1.25 | NA | NA |
| Total System Design Supply Airflow (CFM): | | | 12000 | Total System Design (B)HP: | 5 | Maximum System Fan Power (B)HP: | 2.82 |

| System Name: | VRF-1 | Economizer:[1] | NA: Special OA filtration | Economizer Controls: | Designed per §140.4(e) and (m) | System Fan Type: | Constant Volume |
|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Fan Name or Item Tag | Fan Function | Qty | Maximum Design Supply Airflow (CFM) | HP Unit[2] | Design HP | Fan Power Pressure Drop Adjustment - Table 140.4-B | |
| | | | | | | Device | Design Airflow through Device (CFM) |
| Total System Design Supply Airflow (CFM): | | | 6000 | Total System Design (B)HP: | 0 | Maximum System Fan Power (B)HP: | 2.82 |

[1] FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.
[2] The unit used for HP must be consistent for all fans within a system.

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**I. SYSTEM CONTROLS**

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| System Name | System Zoning | Conditioned Floor Area Being Served (ft²) | Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E | Shut-Off Controls §120.2(e) | Isolation Zone Controls §120.2(g) | Demand Response §110.12 and §120.2(b) | Supply Air Temp. Reset §140.4(f) | Window Interlocks per §140.4(n) |
| AHU-1 | Single zone | <= 25,000 ft² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| AHU-2 | Single zone | <= 25,000 ft² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| RTU-1 | Single zone | <= 25,000 ft² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| RTU-2 | Single zone | <= 25,000 ft² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |
| VRF-1 | Multi-zone w/ DDC to zone | <= 25,000 ft² | Setback | Auto Timer Switch | 4 Hour Timer | EMCS | Included | Provided |

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

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**J. VENTILATION AND INDOOR AIR QUALITY**

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

| | | |
|---|---|---|
| 01 | ☐ | Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. |
| 02 | ☒ | Check this box if the project included Nonresidential or Hotel/Motel spaces |
| | ☐ | Check this box if the project included new or altered high-rise residential dwelling units. |
| 03 | ☐ | Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2. |

**Nonresidential and Hotel/ Motel Ventilation Systems**

| 04 | | 05 | | 06 | | 07 |
|---|---|---|---|---|---|---|
| System Name | AHU-1 | System Design OA CFM Airflow[1] | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel)) |

| 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
|---|---|---|---|---|---|---|---|---|---|
| Space Name ot item Tag | Mechanical Ventilation Required per §120.1(c)3 [3] | | | | | Exh. Vent per §120.1(c)4 | | DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6] | |
| | Occupancy Type[4] | Conditioned Floor Area (ft²) | # of Shower heads/ toilets | # of people[5] | Required Min OA CFM | Required Min CFM | Provided per Design CFM | | |
| Grow Rooms Level 1 | All others | 7624 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | | 0 | 18 | Ventilation for this System Complies? | | Yes |

| 04 | | 05 | | 06 | | 07 |
|---|---|---|---|---|---|---|
| System Name | AHU-2 | System Design OA CFM Airflow[1] | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel)) |
| 08 | 09 | 10 | 11 | 12 | 13 | 14 / 15 / 16 |

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**J. VENTILATION AND INDOOR AIR QUALITY**

| Space Name ot item Tag | Occupancy Type[4] | Conditioned Floor Area (ft²) | # of Shower heads/ toilets | # of people[5] | Required Min OA CFM | Required Min CFM | Provided per Design CFM | DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6] | |
|---|---|---|---|---|---|---|---|---|---|
| Vegetation Room Level 1 | All others | 1448 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | | 0 | 18 | Ventilation for this System Complies? | | Yes |

| 04 | | 05 | | 06 | | 07 |
|---|---|---|---|---|---|---|
| System Name | RTU-1 | System Design OA CFM Airflow[1] | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel)) |

| 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
|---|---|---|---|---|---|---|---|---|---|
| Space Name ot item Tag | Mechanical Ventilation Required per §120.1(c)3 [3] | | | | | Exh. Vent per §120.1(c)4 | | DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6] | |
| | Occupancy Type[4] | Conditioned Floor Area (ft²) | # of Shower heads/ toilets | # of people[5] | Required Min OA CFM | Required Min CFM | Provided per Design CFM | | |
| Grow Rooms Level 2 | All others | 4286 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | | 0 | 18 | Ventilation for this System Complies? | | Yes |

| 04 | | 05 | | 06 | | 07 |
|---|---|---|---|---|---|---|
| System Name | RTU-2 | System Design OA CFM Airflow[1] | 0 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel)) |
| 08 | 09 | 10 | 11 | 12 | 13 | 14 / 15 / 16 |

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**J. VENTILATION AND INDOOR AIR QUALITY**

| Space Name ot item Tag | Occupancy Type[4] | Conditioned Floor Area (ft²) | # of Shower heads/ toilets | # of people[5] | Required Min OA CFM | Required Min CFM | Provided per Design CFM | DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6] | |
|---|---|---|---|---|---|---|---|---|---|
| Vegetation Room Level 2 | All others | 1648 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Mother Room | All others | 630 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | | 0 | 18 | Ventilation for this System Complies? | | Yes |

| 04 | | 05 | | 06 | | 07 |
|---|---|---|---|---|---|---|
| System Name | VRF-1 | System Design OA CFM Airflow[1] | 802 | System Design Transfer Air CFM | 0 | Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel)) |

| 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
|---|---|---|---|---|---|---|---|---|---|
| Space Name ot item Tag | Mechanical Ventilation Required per §120.1(c)3 [3] | | | | | Exh. Vent per §120.1(c)4 | | DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6] | |
| | Occupancy Type[4] | Conditioned Floor Area (ft²) | # of Shower heads/ toilets | # of people[5] | Required Min OA CFM | Required Min CFM | Provided per Design CFM | | |
| Drying Room Level 1 | All others | 497 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Manufacturing Room | Office space | 396 | | | 59.4 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |

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**J. VENTILATION AND INDOOR AIR QUALITY**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Shipping/Receiving | Shipping/ receiving | 593 | | | 89 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Distribution | All others | 99 | | | 14.8 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Hallway Level 1 | Corridor | 1313 | | | 197 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Vault | All others | 89 | | | 13.4 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| IT Room | All others | 89 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Lobby | Reception area | 374 | | | 56.1 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Security Office | Office space | 157 | | | 23.6 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |

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**J. VENTILATION AND INDOOR AIR QUALITY**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Break Room | Break room | 181 | | | 90.5 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Equipment Room | All others | 85 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Clone Room | All others | 219 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Drying Room Level 2 | All others | 497 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Trim Room Level 2 | All others | 505 | | | 0 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Offices Level 2 | Office space | 318 | | | 47.7 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| Hallway Level 2 | Corridor | 1404 | | | 210.6 | 0 | 0 | DCV | NA: Not required per §120.1(d)3 |
| | | | | | | | | Occ Sensor | NA: Not required space type |
| 17 | Total System Required Min OA CFM | | | | 802 | 18 | Ventilation for this System Complies? | | Yes |

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

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**J. VENTILATION AND INDOOR AIR QUALITY**

[2] Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.
[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

**K. TERMINAL BOX CONTROLS**

This section does not apply to this project.

**L. DISTRIBUTION (DUCTWORK and PIPING)**

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

**Duct Leakage Sealing**

| | | | |
|---|---|---|---|
| The answers to the questions below apply to the following duct systems: | AHU-1 | Duct leakage testing triggered for these systems? | No |
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | Yes | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | No | The space conditioning system serves less than 5,000 ft² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | ☐ | Outdoors | |
| | ☐ | In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces | |
| | ☐ | In an unconditioned crawl space | |

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**L. DISTRIBUTION (DUCTWORK and PIPING)**

| | | | |
|---|---|---|---|
| | ☐ | In other unconditioned spaces | |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. | |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. | |
| 17 | Yes | Duct system shall be sealed in acordance with the California Mechanical Code | |
| The answers to the questions below apply to the following duct systems: | AHU-2 | Duct leakage testing triggered for these systems? | No |
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | Yes | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | Yes | The space conditioning system serves less than 5,000 ft² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | ☐ | Outdoors | |
| | ☐ | In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces | |
| | ☐ | In an unconditioned crawl space | |
| | ☐ | In other unconditioned spaces | |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. | |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. | |
| 17 | Yes | Duct system shall be sealed in acordance with the California Mechanical Code | |
| The answers to the questions below apply to the following duct systems: | RTU-1 | Duct leakage testing triggered for these systems? | No |
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | Yes | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | Yes | The space conditioning system serves less than 5,000 ft² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | ☐ | Outdoors | |
| | ☐ | In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces | |
| | ☐ | In an unconditioned crawl space | |

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**L. DISTRIBUTION (DUCTWORK and PIPING)**

| | | | |
|---|---|---|---|
| | ☐ | In other unconditioned spaces | |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. | |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. | |
| 17 | Yes | Duct system shall be sealed in acordance with the California Mechanical Code | |
| The answers to the questions below apply to the following duct systems: | RTU-2 | Duct leakage testing triggered for these systems? | No |
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | Yes | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | Yes | The space conditioning system serves less than 5,000 ft² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | ☐ | Outdoors | |
| | ☐ | In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces | |
| | ☐ | In an unconditioned crawl space | |
| | ☐ | In other unconditioned spaces | |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. | |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. | |
| 17 | Yes | Duct system shall be sealed in acordance with the California Mechanical Code | |
| The answers to the questions below apply to the following duct systems: | VRF-1 | Duct leakage testing triggered for these systems? | No |
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities | |
| 12 | No | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. | |
| 13 | No | The space conditioning system serves less than 5,000 ft² of conditioned floor area. | |
| 14 | No | The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: | |
| | ☐ | Outdoors | |
| | ☐ | In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces | |
| | ☐ | In an unconditioned crawl space | |

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STATE OF CALIFORNIA
## Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
|---|---|---|---|
| **Project Name:** | Freshmade Grow | **Report Page:** | **(Page 16 of 19)** |
| **Project Address:** | 4517 Littlejohn St | **Date Prepared:** | 4/13/2021 |

**L. DISTRIBUTION (DUCTWORK and PIPING)**

| | | |
|---|---|---|
| | ☐ | In other unconditioned spaces |
| 15 | | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. |
| 16 | | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2. |
| 17 | Yes | Duct system shall be sealed in acordance with the California Mechanical Code |

**M. COOLING TOWERS**

This section does not apply to this project.

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

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-MCH-01-E - Must be submitted for all buildings | ☐ | ☐ |

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STATE OF CALIFORNIA
## Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
|---|---|---|---|
| **Project Name:** | Freshmade Grow | **Report Page:** | **(Page 17 of 19)** |
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**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

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/NRCA/

| Yes | No | Form/Title | Systems To Be Field Verified | Field Inspector Pass | Field Inspector Fail |
|---|---|---|---|---|---|
| ● | ○ | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. | | ☐ | ☐ |
| ● | ○ | NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes". | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-04-A - Air Distribution Duct Leakage | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-05-A - Air Economizer Controls | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-06-A Demand Control Ventilation Systems 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-08-A Valve Leakage Test | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-09-A Supply Water Temperature Reset Controls | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-10-A Hydronic System Variable Flow Controls | | ☐ | ☐ |
| ● | ○ | NRCA-MCH-11-A Automatic Demand Shed Controls | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to 'Yes". | | ☐ | ☐ |

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STATE OF CALIFORNIA
## Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
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**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

| Yes | No | Form/Title | Systems To Be Field Verified | Pass | Fail |
|---|---|---|---|---|---|
| ○ | ● | NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to 'Yes". | | ☐ | ☐ |
| ● | ○ | NRCA-MCH-16-A Supply Air Temperature Reset Controls | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-17-A Condenser Water Temperature Reset Controls | | ☐ | ☐ |
| ● | ○ | NRCA-MCH-18-A Energy Management Control Systems | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-19-A Occupancy Sensor Controls | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-20 Multi-Family Ventilation | | ☐ | ☐ |
| ○ | ● | NRCA-MCH-21 Multi-Family Envelope Leakage | | ☐ | ☐ |

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

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 completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

| Yes | No | Form/Title | Field Inspector Pass | Field Inspector Fail |
|---|---|---|---|---|
| ○ | ● | NRCV-MCH-04-H Duct Leakaage Test *NOTE: Must be completed by a HERS Rater* | ☐ | ☐ |
| ○ | ● | NRCV-MCH-24 Enclosure Air Leakaage Worksheet *NOTE: Must be completed by a HERS Rater* | ☐ | ☐ |
| ○ | ● | NRCV-MCH-27 High-rise Resdential *NOTE: Must be completed by a HERS Rater* | ☐ | ☐ |
| ○ | ● | NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater* | ☐ | ☐ |

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

| 01 | | 02 |
|---|---|---|
| Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block | Yes | Plan sheet or construction document location |
| | | M-Sheets |

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STATE OF CALIFORNIA
## Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-MCH-E |
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| **Project Name:** | Freshmade Grow | **Report Page:** | **(Page 19 of 19)** |
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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

| | |
|---|---|
| Documentation Author Name: Vander Veen Engineering Consultants | Documentation Author Signature: [signature] |
| Company: Vander Veen Engineering Consultants | Signature Date: 4/13/21 |
| Address: 28362 Vincent Moraga Suite A1 | CEA/ HERS Certification Identification (if applicable): M34874 |
| City/State/Zip: Temecula CA 92590 | Phone: |

**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: Vander Veen Engineering Consultants | Responsible Designer Signature: [signature] |
| Company: Vander Veen Engineering Consultants | Date Signed: 2021-04-13 |
| Address: 28362 Vincent Moraga, Suite A1 | License: M34874 |
| City/State/Zip: Temecula CA 92590 | Phone: |

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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VanderVeen ENGINEERING CONSULTANTS INC.


We Architects Group
333 W. BROADWAY, P.O. 584
ANAHEIM, CA. 92815
(619) 365-9313


CONSULTANT
SPEC SKY PARSI ENGINEERING & CONSULTING

STAMP

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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

TITLE 24 ENERGY CALCULATIONS

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

PA / PM:
DRAWN BY:
JOB NO.: XXXX

04/15/2021 PLAN CHECK SUBMITTAL SET

SHEET
M4.1

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

# GENERAL NOTES

1. THE ELECTRICAL CONTRACTORS SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, ALL STRUCTURAL, ALL MECHANICAL, ALL ELECTRICAL, ALL PLUMBING, AND ENTIRE PROJECT MANUAL. ELECTRICAL CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE ELECTRICAL INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.

2. THE ELECTRICAL CONTRACTORS SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK, AND FULLY INFORM HIMSELF AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF, SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM, THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE ARCHITECT/ENGINEER AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN ELECTRICAL WORK AND THE WORK OF OTHER TRADES PRIOR AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTING EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

3. THE DRAWINGS INDICATE THE DIAGRAMMATIC INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, ON THE DRAWINGS WITHOUT DEVIATION. THIS CONTRACTOR IS INVITED TO SUBMIT SUBSTITUTIONS FROM THE BASE BID, ONLY IF THE SUBSTITUTIONS ARE APPROVED BY THE OWNER AND ENGINEER/ARCHITECT PRIOR TO SUBMITTING THE BID.

5. IT IS THE INTENT OF THESE DOCUMENTS THAT THE ELECTRICAL CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS AND APPURTENANCES REQUIRED TO SET NEW SYSTEMS INTO OPERATION.

6. THE CONTRACTOR SHALL VERIFY ALL MOUNTING, ALL ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, HEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.

7. SHOULD CONDITIONS NECESSITATE, FOR ANY REARRANGEMENTS, PREPARE AND SUBMIT SHOP DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED BY ARCHITECT/ENGINEER, THEY SHALL BECOME A PART OF THE CONTRACT AFTER THEIR APPROVAL.

8. UPON COMPLETION OF THE WORK, THE CONTRACTORS SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE OWNER'S PROPERTY, LEAVING THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. THE CONTRACTORS SHALL BE RESPONSIBLE FOR REMOVAL OF ANY CARTON, DEBRIS, ETC. FOR EQUIPMENT INSTALLED BY THE CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY THE OWNER. THE ABOVE SHALL ALSO APPLY TO ALL EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTON, BY THE CONTRACTORS.

9. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, UNPACKING, STORING, SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL NEW EQUIPMENT FURNISHED BY THE ELECTRICAL CONTRACTOR.

10. THE ELECTRICAL CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS AND TAXES APPLICABLE TO THIS DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THIS CONTRACT.

11. PROVIDE SEPARATE SUBMITTAL, OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND / OR MODIFICATIONS FROM THE THE COUNTY FIRE DEPARTMENT, THE COUNTY BUILDING AND SAFETY DEPARTMENT, AND OTHER AUTHORITIES HAVING JURISDICTION.

12. ELECTRICAL CONTRACTORS SHALL FURNISH CONTRACT RECORD DOCUMENTS TO THE ARCHITECT/ENGINEER BEFORE FINAL PAYMENT WILL BE ISSUED. THE CONTRACT RECORD DOCUMENTS SHALL INDICATE THE DIAGRAMMATIC INSTALLED CONDITION AND BE IN REPRODUCIBLE DRAWING FORM.

13. THE WORK INSTALLED SHALL BE IN ACCORDANCE WITH ALL COUNTY CODES AND THE LOCAL UTILITY COMPANY'S REQUIREMENTS.

14. ALL EQUIPMENT/DEVICES SHALL BE NEW AND/OR FIRST QUALITY AND IS TO BEAR THE APPROPRIATE UL OR CSA APPROVED LABELS FOR SPECIFIC PURPOSE.

15. THE CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR A PERIOD OF ONE (1) FULL YEAR AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.

16. THE ELECTRICAL CONTRACTORS SHALL FURNISH AS-BUILT DRAWINGS TO THE OWNER/ENGINEER BEFORE FINAL PAYMENT WILL BE ISSUED. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED IN REPRODUCIBLE FORM.

17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE NEW EQUIPMENT.

18. DO ALL CUTTING AND PATCHING (TO ORIGINAL STATE) OF BUILDING MATERIALS AS REQUIRED FOR INSTALLATION OF A COMPLETE WORKABLE SYSTEM.

19. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND CORING THRU FLOORS, NEEDED FOR ELECTRICAL INSTALLATION.

20. THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS SHALL BE CONSIDERED AS PART OF THIS SPECIFICATION.

21. ALL WORK TO BE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE COUNTY AUTHORITIES AND THE MOST RECENT EDITION OF CALIFORNIA ELECTRIC CODE.

22. CONTRACTOR SHALL FILE PLANS WITH AND OBTAIN APPROVALS FROM MUNICIPAL AGENCIES. ALL PERMITS AND CERTIFICATES OF INSPECTION SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. PERTINENT CERTIFICATES SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING.

23. ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES; AN ACCURATE RECORD OF ALL WORK AS ACTUALLY INSTALLED.
UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS AUTHORIZED, SHALL TURN OVER TO THE OWNER'S REPRESENTATIVE A RECORD SET OF PRINTS SHOWING THESE CHANGES.

24. SUBMIT MATERIAL LISTS AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE OWNER'S
REPRESENTATIVE FOR REVIEW. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL
CONDITIONS AND SHALL BEAR THE STAMP OF THE ELECTRICAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THEM. LACK OF SUCH CONTRACTOR'S APPROVAL WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY THE OWNER.

25. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK HEREIN SPECIFIED.
ALL OPENINGS THROUGH STRUCTURALLY SUPPORTED SLABS MUST BE CORE-BORED, SLEEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEEVES MUST EXTEND AT LEAST 2" AFF.
ALL SLEEVES, OPENINGS, ETC. THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO RETAIN FIRE RATING.

26. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIR. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE SECURED TO THE BUILDING STRUCTURE, NOT TO PIPING OR DUCTWORK. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE RUN IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES AND SEPARATED AT LEAST 3" FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES.

27. EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED AND LEFT IN PERFECT WORKING ORDER. SHOULD TESTING REVEAL ANY OTHER DEFECTS, PROMPTLY CORRECT SUCH DEFECTS AND RERUN TESTS UNTIL THE ENTIRE INSTALLATION IS SATISFACTORY IN ALL RESPECTS.

28. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE PROJECT BY THE OWNER. IT IS UNDERSTOOD BY HIS ACCEPTANCE OF THE CONTRACT THAT THIS CONTRACTOR WILL MAKE GOOD ANY AND ALL WORK WHICH IN ANY WAY HAS BECOME DEFECTIVE AS TO THE QUALITY OF MATERIALS AND WORKMANSHIP FOR ANY CAUSE OTHER THAN ORDINARY WEAR AND TEAR. FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

29. THE CONTRACTOR, BEFORE FINAL ACCEPTANCE BY THE OWNER WILL BE GRANTED, SHALL CLEAN ALL LIGHTING FIXTURES, DEVICE PLATES, SERVICE FITTINGS AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. HE SHALL INSURE THAT ALL DIRECTORIES ARE IN PLACE WITH COMPLETED OR REVISED SCHEDULES AND ALL IDENTIFICATIONS AND MARKINGS OF EQUIPMENT, CABLES AND OTHER ITEMS ARE COMPLETED.

30. THIS CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE, FUSE SIZE/CIRCUIT BREAKER SIZE, FEEDER SIZE, AND POWER OUTLET RATING REQUIRED FOR MECHANICAL EQUIPMENT AND OTHER EQUIPMENT, PRIOR COMMENCING ANY WORK.
NO REMOVALS SHALL BE MADE WITHOUT OWNER'S APPROVAL. ALL EXISTING EQUIPMENT, MATERIALS, ETC. THAT ARE NOT TO BE REUSED SHALL BE REMOVED COMPLETELY AND DISPOSED OF BY THIS CONTRACTOR, OR PROTECT, BOX, AND RETURN, PER OWNER INSTRUCTION.

31. THIS CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY POWER AND SHALL PAY THE COST FOR THE UTILITY CONNECTION AND SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE TEMPORARY WORK AND FOR THE REMOVAL OF SAME.
CONTRACTOR SHALL PAY ALL UTILITY CHARGES IN CONNECTION WITH THE TEMPORARY POWER.
CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL POWER EQUIPMENT USED ON THE PREMISES DURING CONSTRUCTION.

32. <u>CONTRACTOR SHALL FURNISH:</u>
ALL LABOR, MATERIALS, SUPPLIES, EQUIPMENT AND FEES REQUIRED TO COMPLETELY INSTALL, TEST AND PLACE THE HEREIN SPECIFIED EQUIPMENT, COMPONENTS, CONTROLS, AND SYSTEMS IN SERVICE.
COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEMS INCLUDING ALL PANELS AND COMPLETE BRANCH CIRCUIT WIRING SYSTEM.
COMPLETE UTILITY MOTOR WIRING SYSTEMS (EXCEPT AS NOTED) COMPLETE LIGHTING FIXTURE INSTALLATION.
COMPLETE TELEPHONE CONDUIT SYSTEM. CONDUIT FROM POINT OF CONNECTION TO LANDLORD'S SYSTEM AND ALL TERMINAL DEVICES, BOXES, CONDUIT, PLATES, ETC.
TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR CONSTRUCTION.
WIRING AND FINAL CONNECTION TO ALL SIGNS AND GRAPHICS, FURNISHED BY THE OWNER.
PROVISIONS FOR FIRE ALARM/SMOKE EVACUATION SYSTEM AND EXTENSION TO LANDLORD'S SYSTEM. TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.
TESTING OF ALL ELECTRICAL EQUIPMENT.
WARRANTY OF ALL WORK FOR A PERIOD OF ONE YEAR FROM DATED OF PROJECT CLOSE-OUT.

33. <u>ELECTRICAL SERVICE:</u>
PROVIDE ELECTRICAL AS INDICATED ON THE DRAWING.
ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR THE POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
CLOSELY COORDINATE ENTIRE INSTALLATION WITH THE POWER COMPANY.
CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY FOR INSTALLATION OF METERING.

34. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL TELEPHONE UTILITY FOR TELEPHONE SERVICE TO THE SPACE, CONDUIT SYSTEM FOR TELEPHONE DISTRIBUTION TO THE PREMISES SHALL BE PROVIDED WHERE REQUIRED FOR UTILITY COMPANY WIRES.
COORDINATE INSTALLATION OF TELEPHONE WORK AND INSTALL ALL CONDUIT FOR TELEPHONE SYSTEM.
OUTLET BOXES SHALL BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE.
PROVIDE TELEPHONE TERMINAL CABINET, AS NEEDED, AND INTERIOR TYPE 4-D PLYWOOD O SERVE AS TELEPHONE TERMINAL BOARD – VERIFY EXACT LOCATION WITH DUNKIN BRANDS.

35. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION.
35.1 THE WORD "PROVIDE" AS USED HEREIN MEANS TO FURNISH AND INSTALL COMPLETE.
35.2 MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEARS ON THE UNDERWRITER'S LABORATORY LIST OF APPROVED ITEMS AND SHALL MEET THE REQUIREMENTS OF RECOGNIZED STANDARDS.
35.3 EQUIPMENT SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE COUNTY CODES.

36. CONDUIT SHALL BE STANDARD STEEL, RIGID, IMC OR EMT (THIN WALL) ACCORDING TO CODE REQUIREMENTS. CONDUIT SHALL BE CONCEALED IN FINISHED AREAS, EXCEPT AS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.

37. RACEWAYS SHALL BE SURFACE METAL TYPE OF THE SIZE AND CHANNEL REQUIRED FOR SERVICE, CONSTRUCTED OF GALVANIZED STEEL WITH SNAP-ON COVERS, WITH 1/8" MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8" O.C. PROVIDE FITTINGS INDICATED WHICH MATCH AND MATE WITH RACEWAY. FINISH WITH MANUFACTURER'S STANDARD PRIME COATING SUITABLE FOR PAINTING.

38. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER, WITH 600V INSULATION:
38.1 #10 AND SMALLER SHALL BE SOLID OR STRANDED WITH SINGLE BRAID #8 AND LARGER – STRANDED WITH AT LEAST DOUBLE BRAID.
MINIMUM WIRE SIZE SHALL BE #12, EXCEPT #14 MAY BE USED FOR CONTROL APPLICATIONS.
38.2 ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES.
38.3 GENERAL WIRING SHALL HAVE THHN OR THWN INSULATION.
38.4 ALUMINUM CONDUCTORS ARE NOT PERMITTED.
38.5 WIRES SHALL BE COLOR CODED IN KEEPING WITH CEC STANDARDS.

39. OUTLET BOXES AND COVERS SHALL BE ONE PIECE, GALVANIZED OR SHERARDIZED STEEL, KNOCK-OUT TYPE W/FIXTURE STUDS AS REQ. JUNCTION BOXES, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE AND SIZE.

40. <u>WIRING DEVICE:</u>
WALL SWITCHES, SINGLE POLE, DOUBLE POLE, AND THREE WAY SHALL BE GENERAL DUTY, FLUSH, TOGGLE SWITCHES; SPECIFICATION GRADE, 20A, 120/277V, WITH SCREW TERMINALS:
MANUFACTURES SHALL BE LEVITRON, BRYANT, PASS AND SEYMORE, OR HUBBELL.
GENERAL DUTY DUPLEX RECEPTACLES SHALL BE 2-POLE, 3-WIRE GROUNDING TYPE, SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R UNLESS OTHERWISE INDICATED. MANUFACTURERS SHALL BE LEVITRON, BRYANT, PASS AND SEYMORE, OR HUBBELL.
GROUND FAULT INTERRUPTER RECEPTACLE SHALL BE GENERAL DUTY, DUPLEX RECEPTACLES,
GROUND FAULT CIRCUIT INTERRUPTER, FEED-THROUGH TYPE, CAPABLE OF PROTECTING
CONNECTED DOWNSTREAM RECEPTACLES ON A SINGLE CIRCUIT, GROUNDING TYPE UL-RATED CLASS A, GROUP 1, 20A, 120V, 60 HZ; WITH SOLID-STATE GROUND FAULT SENSING AND SIGNALING; WITH 5 MILLIAMPERES GROUND-FAULT TRIP LEVEL; IN NEMA 5-15R CONFIGURATION.
MANUFACTURERS SHALL BE LEVITRON, BRYANT, PASS AND SEYMORE, OR HUBBELL.
DUPLEX ISOLATED GROUND TYPE RECEPTACLE SHALL BE 2-POLE, 4-WIRE, 15A STRAIGHT BLADE DEVICE WITH SEPARATE ISOLATED GROUND AND BUILDING GROUND CONNECTIONS, IN NEMA 5-15R CONFIGURATION, AS MANUFACTURED BY HUBBELL IG-5362.
ANY RECEPTACLE THAT IS INSTALLED AT OR BELOW 37 INCHES SHALL BE INSTALLED GROUND UP AND ANY RECEPTACLE THAT IS INSTALLED AT OR ABOVE 38 INCHES SHALL BE INSTALLED GROUND DOWN.

41. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.
ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL THE REQUIRED COUNTY CODES, CEC CODES AND REGULATIONS.
PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE A PART OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL COUNTY CODES.
MAIN GROUNDING SYSTEM SHALL BE SIZED TO CONFORM WITH SECTION 250, TABLE 250-66 OF THE CALIFORNIA ELECTRICAL CODE. PROVIDE CONDUIT TO PROTECT THE GROUND WIRE FROM DAMAGE TO AN AREA OF 6 FT ABOVE FLOOR.
MAKE ALL JOINTS AND CONNECTIONS OF THE CONDUIT SYSTEM TIGHT TO MAINTAIN CONTINUITY OF MECHANICAL AND ELECTRICAL GROUND THROUGHOUT ENTIRE SYSTEM.
GROUND ALL 3 WIRE RECEPTACLES TO THE OUTLET BOXES.

42. PANELBOARD SHALL BE 3-PHASE, 4-WIRE DISTRIBUTED PHASE TYPE WITH SOLID NEUTRAL GROUND LUG, GROUND BUS AND NUMBER OF CIRCUIT BREAKERS AS SHOWN ON THE PANEL SCHEDULE. BUSWAYS SHALL BE HARD DRAWN COPPER. CABINET SHALL BE CONSTRUCTED OF CODE GAUGE STEEL WITH HINGED DOOR HAVING DIRECTORY CARD, NEATLY AND PROPERLY INSCRIBED AND SET IN FRAME WITH TRANSPARENT COVER.
ALL BREAKERS SHALL BE BOLTED TYPE, THERMAL MAGNETIC WITH ALL TWO OR THREE POLE BREAKERS HAVING COMMON TRIP. CIRCUIT BREAKERS SHALL BE RATED FOR MINIMUM 10,000 AMP SYMMETRICAL SHORT CIRCUIT CURRENT AT 208/120V, AND FOR MINIMUM 18,000 AMP SYMMETRICAL SHORT CIRCUIT CURRENT AT 480/277V.

CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH SERVICE.
PANELBOARDS AND BREAKERS SHALL BE AS MANUFACTURED BY SQUARE-D OR EQUAL.
PANEL SHALL BE CIRCUITED SO THAT THE LOAD IS DISTRIBUTED EVENLY ACROSS ALL THREE PHASES.

43. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NON-FUSED, AS CALLED FOR ON DRAWING AND AS REQUIRED BY THE COUNTY. SWITCHES SHALL BE HEAVY DUTY, LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE-D, GENERAL ELECTRIC, OR EQUAL. SWITCH ENCLOSURE TO BE SUITABLE FOR APPLICATION.
FURNISH AND INSTALL DUAL ELEMENT CURRENT LIMITING FUSES OF TYPE AND AMPACITY DESIGNED TO PROTECT SYSTEM AGAINST AVAILABLE SHORT CIRCUIT FAULT CURRENT.

44. IF REQUIRED: PROVIDE DRY-TYPE TRANSFORMER WHICH SHALL BE COMPLETELY ENCLOSED EXCEPT FOR VENTILATING OPENINGS WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWING AS MANUFACTURED BY SQUARE-D.
TRANSFORMER SHALL HAVE A MINIMUM OF CLASS 155 INSULATION SYSTEM, AND A MINIMUM OF (2) 2-1/2 % TAPS BELOW AND (2) 2-1/2 % TAPS ABOVE RATED PRIMARY VOLTAGE.
SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY.

45. THE CONTRACTOR SHALL PROVIDE A NEW LIGHTING FIXTURE OF THE TYPE SPECIFIED FOR EACH LIGHTING OUTLET SHOWN WITH COMPLETE LAMPS OR TUBES. ALL FIXTURES SHALL BE SECURELY MOUNTED IN PLACE, SEISMICALLY SUPPORTED AND BRACED, PROPERLY WIRED, TESTED AND LEFT READY FOR OPERATION.

46. PAINTING OF ELECTRICAL CONDUITS, ETC. IF REQUIRED, WILL BE BY GENERAL CONTRACTOR.

47. RECEPTACLES, SWITCHES, AND COVER PLATES IN CUSTOMER AREAS ARE TO MATCH THE SURROUNDING WALL COLOR. ALL COVER PLATES IN THE KITCHEN AND RESTROOMS NEED TO BE STAINLESS STEEL.

48. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.
THE LOCATION OF RECEPTACLES AND FIXTURES SHOWN ON THE DRAWING IS APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY RECEPTACLES OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.

49. NO ROMEX OR BX WILL BE PERMITTED.

50. ALL WIRE SHALL BE INSTALLED IN THIN WALL (E.M.T.) METAL CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" EXCEPT FOR DROPS FOR DEVICES, SWITCH LEGS, TEMPERATURE CONTROL CONDUITS, WHERE INDICATED OR AS CALLED FOR ON DRAWINGS.

51. ALL THIN WALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE.

52. ALL UNDER FLOOR, UNDERGROUND OR EXPOSED-TO-WEATHER CONDUIT SHALL BE HEAVY WALL GALVANIZED RIGID STEEL. (G.R.S.), MINIMUM 3/4".

53. ALL CONDUITS 2" OR LARGER SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT (I.M.C.).

54. ELECTRICAL CONTRACTOR SHALL INSTALL SIZE OF CONDUIT SHOWN AND AS SCHEDULED ABOVE AND SHALL NOT REDUCE SIZING OF CONDUITS TO SUIT WIRE FILL CAPACITY.

55. ALL CONDUIT FASTENERS, STRAPS, SUPPORTS ETC. MUST BE "BOLT-ON" GALVANIZED STEEL ON EXPOSED CONSTRUCTION AND IN WET AREAS. ABOVE SUSPENDED CEILINGS WILL BE PERMITTED. ALL FASTENERS, SNAP-ON BLACK METAL "CADDY" CLIPS IN METAL PARTITION WALLS AND STRAPS, CLIPS, ETC. SHALL BE UL LISTED FOR THEIR USE.

56. NO CONDUITS SHALL BE ROUTED THROUGH HVAC AIR DUCTS.

57. ALL CONDUIT RACEWAYS SHALL BE CONCEALED IN OR WITHIN: WALLS, CEILING CAVITY, ROOF CONSTRUCTION (WHERE APPROVED), SLAB, GRADE, ETC. UNLESS OTHERWISE NOTED. ANY RACEWAY THAT IS TO BE ROUTED EXPOSED SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. ALL CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS WITH 90° BENDS WHERE REQUIRED AND SHALL BE RACKED. PULL AND JUNCTION BOXES SHALL BE HELD TO A MINIMUM.

58. NO WIREWAY, THROUGH OR JUNCTION SHALL BE UTILIZED WHERE MORE THAN 8 CONDUITS ARE ENTERING OR LEAVING. MULTIPLE WIREWAYS, TROUGHS OR JUNCTIONS SHALL BE UTILIZED. IN NO CASE SHALL FEED OR CONDUIT OR CABLING BE MIXED WITH BRANCH CONDUIT.

59. NO CONDUITS SHALL BE ROUTED ON ROOF. ELECTRICAL CONTRACTOR SHALL COORDINATE ROOF PENETRATIONS WITH MECHANICAL PIPE CURBS. WHERE CONDUIT MUST BE RUN ON ROOF, IT SHALL BE RACKED WITH OTHER TRADES WHERE POSSIBLE OR PROVIDED WITH ITS OWN ROOF RACK SUPPORT SYSTEM WITH PROPER ROOF PLATE SO AS NOT TO CAUSE DAMAGE TO ROOF COVERING.

60. ELECTRICAL CONTRACTOR SHALL FIREPROOF ALL CONDUIT OPENINGS BETWEEN FLOORS AND ANY INTERSPACE FIRE SEPARATION BLOCK WALLS WITH AN ENGINEER APPROVED UL LISTED FIRE RETARDANT MATERIAL.

61. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND CORING THRU FLOORS. ELECTRICAL CONTRACTOR SHALL WEATHERPROOF ALL PENETRATIONS THRU FOUNDATION AND EXTERIOR WALLS.

62. FINAL EQUIPMENT CONNECTION TO PILOT CONTROL DEVICES SHALL BE MADE WITH MINIMUM OF 1'0" AND MAXIMUM OF 3'-0" LENGTH OF FLEXIBLE CONDUIT CONNECTION (IE. SOLENOID VALVES, MOTORIZED DAMPERS, ETC.).

63. ALL ELECTRICAL WORKS SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE, CHAPTER 14, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION".

64. PROVIDE SEPARATE SUBMITTAL FOR ALL ELECTRICAL SUBSYSTEMS WITH POWER SUPPLY(S) OF MORE THAN 50VA AND / OR 24V. (E.G., SECURITY, CARD READERS, TELCO / DATA, PA, AUDIO / VISUAL, NURSE CALL, HVAC AND REFRIGERATION CONTROLS, ETC.).

65. ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY A THE COUNTY APPROVED TESTING LABORATORY.

66. PROVIDE ARC FLASH LABELING AS REQUIRED PER CEC 110.16.

67. PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS.

68. FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION.

69. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE SPACE ABOVE THE ELECTRICAL EQUIPMENT, AS REQUIRED PER CEC 110.26(E)(1).

70. THE BRANCH CIRCUIT SERVING EMERGENCY LIGHTING AND POWER CIRCUITS SHALL NOT BE PART OF A MULTIWIRE BRANCH CIRCUIT, AS REQUIRED PER CEC 700.19.

71. GROUP THE COMMON NEUTRAL CONDUCTOR FOR MULTIPLE CIRCUITS WITH ITS ASSOCIATED UNGROUNDED CONDUCTORS WHEN CONTAINED IN THE SAME ENCLOSURE, AS REQUIED PER CEC 200.4(B).

72. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MUTLIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION, AS REQUIRED PER CEC 210.4(D).

73. 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, AS REQUIRED PER CEC 210.4.

74. ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS / SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES

# RACEWAYS AND BOXES GENERAL NOTES

1. COORDINATE LAYOUT, LOCATION, AND EMBEDMENT OF RACEWAYS, BOXES, ENCLOSURES, CABINETS, AND OTHER ELECTRICAL AND SIGNAL INSTALLATIONS WITH EXISTING TO REMAIN AND WITH NEW CONSTRUCTIONS.

2. INSTALL TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAYS. SEAL ALL CONDUIT FROM EXTERIOR OUTLETS AT FIRST INTERIOR JUNCTION BOX TO PREVENT MOISTURE FROM ENTERING THE BUILDING THROUGH THE CONDUIT.

3. PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE THE FINISHED SLAB. WHERE BENDS OR RISERS FROM UNDERGROUND PVC SCHEDULE 40 CONDUIT TERMINATE ABOVE GRADE OR FLOOR OR IN AREAS WHERE SUBJECT TO PHYSICAL DAMAGE DURING OR AFTER CONSTRUCTION, USE RIGID STEEL FACTORY ELLS. IF ADDITIONAL RISER OR NIPPLE IS REQUIRED, THEY ALSO SHALL BE RIGID STEEL. UNDERGROUND CONDUITS, WHICH TERMINATE INSIDE BUILDING BELOW GRADE SHALL BE SEALED AT TERMINATION AFTER INSTALLATION OF CONDUCTORS. INSTALL PLUGS OR CAPS ON ALL SPARE (EMPTY) CONDUITS

4. SIGNAL SYSTEM CONDUIT RUNS SHALL NOT HAVE MORE THAN TWO 90-DEGREE LONG RADIUS BENDS OR MORE THAN TOTAL OF 180-DEGREE BENDS AND ALL OTHER CONDUIT RUNS (BELOW 600 VOLTS) SHALL NOT HAVE MORE THAN THREE 90-DEGREE LONG RADIUS BENDS OR MORE THAN TOTAL OF 270-DEGREE BENDS BETWEEN PULL BOXES, JUNCTION BOXES OR TERMINAL CABINETS.

5. CONDUITS SHALL NOT BE INSTALLED IN THE SLAB OR ANY ISOLATED FLOOR SLAB.

6. EXPANSION JOINT: WHERE EMBEDDED CONDUITS CROSS BUILDING EXPANSION OR SEISMIC JOINTS, PROVIDE SLIDING CONDUIT EXPANSION JOINTS WITH BONDING STRAP AND CLAMPS. WHERE EXPOSED CONDUITS OR CONDUITS IN FURRED SPACES CROSS BUILDING EXPANSION OR SEISMIC JOINTS, USE OFFSET FLEXIBLE CONDUIT OR SLIDING CONDUIT EXPANSION JOINT.

7. JOIN RACEWAYS WITH FITTINGS DESIGNED AND APPROVED FOR THAT PURPOSE AND MAKE JOINTS TIGHT. TERMINATE CONDUITS OF 1" SIZE AND LARGER WITH INSULATED BUSHINGS WITH GROUNDING LUGS WHERE REQUIRED.

8. PROVIDE POLYETHYLENE PULL ROPE IN EMPTY RACEWAYS THAT ARE CONTINUOUS BETWEEN PULL POINTS, CONDUITS INDICATED AS "CONDUIT ONLY" (C.O.) AND SIGNAL SYSTEM CONDUITS. USE 1/8" POLYPROPYLENE PLASTIC LINE (1/8" THICK) WITH NOT LESS THAN 250-LB TENSILE STRENGTH. A MINIMUM OF THIRTY-SIX (36) INCHES OF SLACK SHALL BE LEFT AT BOTH ENDS OF EACH PULL ROPE. PULL CORDS IN TELEPHONE/DATA SERVICE CONDUITS (4" AND LARGER) SHALL BE 3/16" SIZE. BOTH ENDS OF PULL ROPE SHALL BE IDENTIFIED BY MEANS OF LABELS OR TAGS, WHICH SHALL IDENTIFY THE LOCATION OR ROOM DESIGNATION OF THE OTHER END.

9. FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES OF FLEXIBLE CONDUIT FOR RECESSED AND SEMI-RECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. USE LFMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

10. PENETRATION IN FIRE RATED STRUCTURES:
10.1 PROVIDE FIRE RATED SEALS AROUND PENETRATIONS THROUGH FLOORS, WALLS, ELEVATOR SHAFTS AS MINIMUM OR MECHANICAL FIRE STOP FITTINGS WITH UL LISTED FIRE RATING OR EQUAL TO WALL OR FLOOR RATINGS, WHICHEVER IS LARGER. REFER FIRESTOPPING DETAIL, FOR ADDITIONAL INFORMATION.
10.2 WHEN CONDUITS PENETRATE RATED WALLS AT AN ANGLE OTHER THAN 90 DEGREE, PROVIDE PULL BOX WITH PULL BOX EXTENSION AT CROSSING POINT TO MEET UL FIRE RATING REQUIREMENTS.

11. UNDERGROUND DUCT-BANKS SHALL HAVE CONTINUOUS SLOPE DOWNWARD TOWARD MANHOLES AND AWAY FROM BUILDINGS WITH A PITCH OF NOT LESS THAN 4 INCHES IN 100 FEET. CHANGES IN DIRECTION OF RUNS EXCEEDING A TOTAL OF 10 DEGREES, EITHER VERTICAL OR HORIZONTAL, SHALL BE ACCOMPLISHED BY LONG SWEEP BENDS HAVING A MINIMUM RADIUS OF CURVATURE OF 25 FEET. MANUFACTURED BENDS MAY BE USED AT OR CLOSE TO THE END OF RUN.

12. ENCASE ALL NONMETALLIC FEEDER CONDUITS INSTALLED UNDERGROUND IN A 3-INCH CONCRETE ENVELOPE OR SLURRY. EXTEND CONCRETE OR SLURRY ENVELOPES A MINIMUM OF 3 INCHES BEYOND ALL EXTERNAL SIDES OF ALL OUTERMOST CONDUITS. SPACE THE EXTERNAL SURFACES OF ALL CONDUITS WITHIN A BANK, A MINIMUM OF 3 INCHES APART. USE MANUFACTURED CONCRETE OR PLASTIC SPACERS TO INSURE REQUIRED CONCRETE OR SLURRY COVERAGE. CONCRETE SHALL BE MINIMUM 2500 PSI.

13. UNDERGROUND CONDUITS FOR BRANCH CIRCUITS WITHOUT CONCRETE ENCASEMENT SHALL HAVE 6-INCH THICK ENVELOPE OF SAND, OR 3-INCH-THICK OF SLURRY, ALL AROUND. CONDUIT INSTALLED IN UNPAVED OR PLANTED AREAS SHALL HAVE 6 INCHES OF SAND BELOW AND 2-INCH THICK CAP OF LEAN CONCRETE OR SLURRY ON TOP.

14. A DUCT BANK SHALL CONTAIN A MAXIMUM OF TWELVE (12) CONDUITS FOR POWER WIRING WITH MAXIMUM OF 3 CONDUITS STACKED IN 4 ROWS, UON. SPARE CONDUITS SHALL NOT BE PART OF THE MAXIMUM LIMIT.

15. ALL SOUND, TELEPHONE, DATA COMMUNICATION, AND OTHER SIGNAL SYSTEM CIRCUITS CONTAINED WITHIN NONMETALLIC CONDUIT SHALL HAVE A MINIMUM SEPARATION OF 6 INCHES FROM ANY LIGHT OR POWER CIRCUITS/FEEDERS THAT PARALLEL THEM WITHIN A BANK.

16. LIMIT TO A MINIMUM THE ROUTING OF CONDUITS WITHIN THE PLANTING AREAS OF PARKING LOT DIVIDERS. DO NOT RUN CONDUIT WITHIN THE PLANTING AREA PARALLEL TO THE LONG DIMENSION OF THE DIVIDER. COORDINATE THE ROUTING OF SERVICE CONDUITS TO LIGHTING STANDARDS AND LANDSCAPE LIGHTING FIXTURES TO AVOID CONFLICT WITH TREES AND MAJOR SHRUBS.

17. ALL UNDERGROUND CONDUITS TO BE INSTALLED A MINIMUM 24" BELOW GRADE TO THE TOP OF THE CONDUIT BANK, UNLESS OTHERWISE NOTED.

18. CONDUITS THAT TO BE INSTALLED FOR PRIMARY AND SECONDARY POWER SERVICE CABLES, TO AND FROM THE UTILITY TRANSFORMER, SHALL BE INSTALLED PER THE UTILITY REQUIREMENTS.

19. PROVIDE A PLASTIC WARNING TAPE IN THE BACKFILL OVER THE DUCT LINES AND APPROXIMATELY 12 INCHES BELOW GRADE. TAPE SHALL BE RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH OF THE UNDERGROUND UTILITY LINES. TAPE SHALL BE POLYETHYLENE PLASTIC MANUFACTURED SPECIFICALLY FOR WARNING AND IDENTIFICATION OF BURIED LINES. TAPE SHALL BE OF THE TYPE PROVIDED IN ROLLS, 6-INCHES MINIMUM WIDTH, COLOR CODED FOR ELECTRIC LINES (RED) AND FOR SIGNAL LINES (ORANGE), WITH WARNING AND IDENTIFICATION IMPRINTED IN BOLD BLACK LETTERS CONTINUOUSLY AND REPEATEDLY OVER ENTIRE TAPE LENGTH. WARNING AND IDENTIFICATION SHALL BE "CAUTION – BURIED ELECTRIC (OR SIGNAL) LINE BELOW", OR SIMILAR WORDING. CODE AND LETTER COLORING SHALL BE PERMANENT, UNAFFECTED BY MOISTURE AND OTHER SUBSTANCES CONTAINED IN TRENCH BACKFILL MATERIAL.

20. DURING CONSTRUCTION, PARTIALLY COMPLETED DUCT LINES SHALL BE PROTECTED FROM THE ENTRANCE OF DEBRIS SUCH AS MUD, SAND AND DIRT BY MEANS OF SUITABLE CONDUIT PLUGS. AS EACH SECTION OF A DUCT LINE IS COMPLETED FROM MANHOLE TO VAULT, A TESTING MANDREL NOT LESS THAN 12 INCHES LONG WITH A DIAMETER 1/4-INCH LESS THAN THE SIZE OF THE CONDUIT, SHALL BE DRAWN THROUGH EACH CONDUIT, AFTER WHICH A BRUSH HAVING THE DIAMETER OF THE DUCT, AND HAVE STIFF BRISTLES SHALL BE DRAWN THROUGH UNTIL THE CONDUIT IS CLEAR OF ALL PARTICLES OF EARTH, SAND, GRAVEL AND OTHER FOREIGN MATERIALS. CONDUIT PLUGS SHALL THEN BE IMMEDIATELY INSTALLED. UNDERGROUND CONDUITS, WHICH TERMINATE INSIDE THE BUILDING BELOW GRADE, OR WHICH SLOPE SO THAT WATER MIGHT FLOW INTO BUILDING, SHALL BE SEALED AT TERMINATION AFTER INSTALLATION OF WIRES.

21. THE ENDS OF ALL UNDERGROUND CONDUITS ENTERING BUILDINGS, PULL BOXES, MANHOLES, ETC. SHALL TERMINATE IN END BELLS AND SHALL BE CAPPED OR SEALED WITH AN APPROVED COMPOUND, RAYCHEM OR EQUAL (NO KNOWN EQUAL) AFTER INSTALLATION OF WIRE. CAP EMPTY CONDUIT STUBOUTS AT BOTH ENDS. IN LANDSCAPED AREAS, TERMINATE IN AN UNDERGROUND PULL BOX.

22. TAG ALL EMPTY CONDUITS AT EACH ACCESSIBLE END WITH A PERMANENT TAG IDENTIFYING THE PURPOSE OF THE CONDUIT AND THE LOCATION OF THE OTHER END. IN WET, CORROSIVE OUTDOOR OR UNDERGROUND LOCATIONS, USE ENGRAVED ACRYLIC PLASTIC LAMINATED NAME PLATES 3" X 5" IN SIZE.

23. A 6-INCH SQUARE BY 2-FOOT-DEEP CONCRETE BLOCK WITH AN EMBEDDED BRASS NAMEPLATE SHALL BE INSTALLED OVER THE ENDS OF ALL SPARE CONDUITS STUBBED OUT OF THE BUILDING, PULL BOXES, MANHOLES, ETC., INDICATING THE ORIGIN OF THE CONDUITS. VERIFY LOCATION WITH RAMONA BOWL AMPHITHEATER REPRESENTATIVE PRIOR TO ROUGH-IN.

24. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.
24.1 REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH PAINT RECOMMENDED BY MANUFACTURER.
24.2 REPAIR DAMAGE TO PVC OR PAINT FINISHES WITH MATCHING TOUCH UP COATING RECOMMENDED BY MANUFACTURER.

# DEMOLITION GENERAL NOTES

1. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND OBTAIN THE INFORMATION NECESSARY TO BE THOROUGHLY FAMILIARIZED WITH THE EXISTING CONDITIONS AFFECTING THE ELECTRICAL WORK.

2. INFORMATION SHOWN ON THE DRAWINGS WHICH DESCRIBES EXISTING CONDITIONS HAS BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES, BUT CANNOT BE GUARANTEED AS ACCURATE IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION PRIOR TO BID AND AGAIN PRIOR TO ANY WORK AFFECTED BY THE EXISTING CONDITIONS. INCLUDE AS PART OF THE CONTRACT, ALL WORK REQUIRED TO PRODUCED THE INDICATED RESULTS.

3. PROVIDE ALTERATION TO THE EXISTING ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS OR AS REQUIRED TO MEET THE FINISHED CONDITIONS SPECIFIED FOR NEW WORK.

4. UNLESS NOTED OTHERWISE ON DRAWINGS. ALL EXISTING WIRING, CONDUITS, JUNCTION BOXES AND OTHER ELECTRICAL DEVICES WHICH ARE ABANDONED IN AREAS WHERE NEW WORK OCCURS, SHALL BE REMOVED EXCEPT WHEN SUCH DEVICES ARE REQUIRED TO MAINTAIN SERVICES TO OTHER AREAS, IN SUCH CASES, CONTRACTOR SHALL RELOCATE THESE DEVICES WHERE REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR MAY ABANDON IN PLACE ANY OF THE EXISTING ITEMS WHEN SUCH ITEMS ARE CONCEALED AND DO NOT INTERFERE WITH THE NEW WORK OF ALL TRADES.

5. EXTEND AND RECONNECT, INTERRUPTED CIRCUITS SERVING EXISTING LIGHTING FIXTURES, DEVICES, EQUIPMENT, ETC., WHICH ARE TO REMAIN IN OPERATION.

6. CONTRACTOR TO FOLLOW OWNER'S DIRECTION IN-REGARDS TO ALL ELECTRICAL MATERIALS AND EQUIPMENT REMOVED FROM THE EXISTING INSTALLATION, IN THE COURSE OF PERFORMING THE INDICATED WORK AND NOT INDICATED TO BE REUSED, TO EITHER:

A. PROTECT, BOX, AND RETURN TO FACILITY, OR
B. DISPOSE ON CONTRACTOR'S EXPENSE.

7. ALL ELECTRICAL EQUIPMENT, DEVICES AND MATERIAL WHICH ARE INDICATED AS TO BE RELOCATED, OR MODIFIED SHALL BE CLEANED AND REPAIRED:

A. MISSING HARDWARE SHALL BE REPLACED AND ALL BOLTS, LUGS AND SPLICES TIGHTENED.
B. EXISTING CONDUITS, WHICH ARE TO BE RE-USED, SHALL BE SWABBED CLEAN BEFORE ANY REWIRING.
C. EXISTING PANEL BOARDS. PROVIDE NEW CIRCUIT BREAKERS, AS REQUIRED, OF THE SAME TYPE AND THE SHORT CIRCUIT RATING AS THOSE EXISTING.

8. ELECTRICAL SERVICES TO OCCUPIED AREAS SHALL BE MAINTAINED DURING CONSTRUCTION.

9. ALL WORK DEMOLISHED SHALL BE REMOVED FROM THE PREMISES, EXCEPT THOSE ITEMS TO BE REUSED OR RETURNED TO OWNER OR AS OTHERWISE NOTED.

10. CONTRACTOR SHALL PROTECT ALL EXISTING SYSTEMS WHICH ARE TO REMAIN, INCLUDING BUT NOT LIMITED TO: VOICE, DATA, FIRE ALARM, SECURITY, CLOCK, BELL, POWER BE LIGHTING SYSTEMS. ALL OUTLETS, HARDWARE, CONDUIT AND CONDUCTORS TO BE SECURED FROM ANY DAMAGE. CONTRACTOR SHALL TEST ALL OUTLETS, HARDWARE, CONDUIT AND CONDUCTORS PRIOR TO COMMENCEMENT OF WORK, AND PROVIDE A WRITTEN REPORT TO OWNER/ARCHITECT, INDICATING ANY FAILURES OR DAMAGE TO OUTLETS, HARDWARE, CONDUIT OR CONDUCTORS.

11. EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE."

12. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.

13. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, AND TURN OVER ALL REMOVED EQUIPMENT TO THE OWNER IN "AS-FOUND" CONDITION. EQUIPMENT RETURNED TO OWNER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.

# APPLICABLE CODES

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO <u>2019</u> (U.O.N) VERSION OF:

CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, CCR, PART 1
CALIFORNIA BUILDING CODE (CBC), TITLE 24, CCR, PART 2
CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24, CCR, PART 3
CALIFORNIA MECHANICAL CODE (CMC), TITLE 24, CCR, PART 4
CALIFORNIA PLUMBING CODE (CPC), TITLE 24, CCR, PART 5
CALIFORNIA ENERGY CODE, TITLE 24, CCR, PART 6
CALIFORNIA FIRE CODE, TITLE 24, CCR, PART 9
CALIFORNIA GREEN BUILDING STANDARD CODE, TITLE 24, CCR, PART 11

<u>THE APPLICABLE AND LATEST EDITIONS OF THE FOLLOWING STANDARDS:</u>

| | |
|---|---|
| NFPA 13 | AUTOMATIC SPRINKLER SYSTEMS |
| NFPA 14 | STANDPIPE SYSTEMS |
| NFPA 17 | DRY CHEMICAL EXTINGUISHING SYSTEMS |
| NFPA 17A | WET CHEMICAL SYSTEMS |
| NFPA 20 | STATIONARY PUMPS |
| NFPA 24 | PRIVATE FIRE MAINS |
| NFPA 72 | NATIONAL FIRE ALARM CODE |
| NFPA 253 | CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS |
| NFPA 2001 | CLEAN AGENT FIRE EXTINGUISHING SYSTEMS |

REFERENCE CODE SECTION FOR NFPA STANDARDS – CBC (SFM)

# BRANCH CIRCUIT SYMBOLS

- HOMERUN
- CONDUIT CONTINUATION
- CONDUIT STUB-OUT
- UNDERGROUND CONDUIT
- CONDUIT
- CONDUIT STUB UP
- CONDUIT STUB DOWN
- 0.75"C-2#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 0.75"C-3#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 0.75"C-4#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 0.75"C-5#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 0.75"C-6#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 0.75"C-7#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 1.00"C-8#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 1.00"C-9#12AWG THHN/THWN CU. +1#12AWG CU. GND
- 1.00"C-10#12AWG THHN/THWN CU. +1#12AWG CU. GND

# ELECTRICAL ANNOTATIONS

| | |
|---|---|
| # | KEYNOTE |
| # / SHT | DETAIL CALLOUT<br>#-INDICATES DETAIL NUMBER<br>SHT-INDICATES SHEET NUMBER |
| # | LIGHT FIXTURE TAG |
| TYP / # | MECHANICAL EQUIPMENT DESIGNATION<br>TYP-INDICATES EQUIPMENT TYPE<br>#-INDICATES EQUIPMENT NUMBER |

# ABBREVIATIONS

| | |
|---|---|
| A, AMP | AMPERE(S) |
| AIC | AMPERE INTERRUPTING CAPACITY IN SYMMETRICAL AMPERES |
| AF | AMP-FUSE |
| AFC | AVAILABLE FAULT CURRENT |
| AFF | ABOVE FINISHED FLOOR |
| AUTO | AUTOMATIC |
| BLDG. | BUILDING |
| C. | CONDUIT |
| C.B. | CIRCUIT BREAKER |
| C.I. | CONTRACTOR INSTALLED |
| CKT. | CIRCUIT |
| CLG. | CEILING |
| C.O. | CONDUIT ONLY |
| COND. | CONDUCTOR |
| CWP | COLD WATER PIPE |
| (D) | DEMOLISH THE EXISTING |
| DISC. | DISCONNECT |
| DISTR. | DISTRIBUTION |
| DN | DOWN |
| (E) | EXISTING TO REMAIN |
| EA. | EACH |
| ELEC. | ELECTRICAL |
| EGC | EQUIPMENT GROUNDING CONDUCTOR |
| EM | EMERGENCY |
| EOR | ENGINEER OF RECORD |
| F | FUSE |
| F.A. | FIRE ALARM |
| FLR. | FLOOR |
| G./GND. | GROUND |
| GEC | GROUNDING ELECTRODE CONDUCTOR |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| HP | HORSEPOWER |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| J-BOX | JUNCTION BOX |
| K | KILO |
| L | LINE |
| LCP | LIGHTING CONTROL PANEL |
| LS | LUMP-SUM |
| LV | LOW VOLTAGE |
| MDF | MAIN DISTRIBUTION FRAME |
| (N) | NEW |
| N | NEUTRAL |
| N/A | NOT APPLICABLE |
| N.I.C. | NOT IN CONTRACT |
| NGL | NEGLIGIBLE |
| NO. | NUMBER |
| PA | PUBLIC ADDRESS |
| PNL | PANEL |
| (R) | RELOCATE THE EXISTING |
| SF | SQUARE FOOT |
| SPEC. | SPECIFICATION |
| SW. | SWITCH |
| SW'BD | SWITCHBOARD |
| TEL. | TELEPHONE |
| TV. | TELEVISION |
| TRANSF. | TRANSFORMER |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| TYP. | TYPICAL |
| U.C. | UNDERCOUNTER |
| U.G. | UNDERGROUND |
| U.O.N. | UNLESS OTHERWISE NOTED |
| V | VOLT |
| VA | VOLT X AMPERE |
| V.P. | VAPOR PROOF |
| VSD | VARIABLE SPEED DRIVE |
| W/ | WITH |
| W/O | WITHOUT |
| WP | WEATHERPROOF |
| Z | IMPEDANCE |
| @ | MOUNTED THE ABOVE FINISHED FLOOR AT |

# ELECTRICAL SHEET INDEX


| SHEET NO. | DESCRIPTION |
|---|---|
| E0-1 | ELECTRICAL NOTES, APPLICABLE CODES, AND DRAWING INDEX |
| E0-2 | ELECTRICAL SYMBOLS AND LIGHTING FIXTURE SCHEDULE |
| E1-1 | ELECTRICAL SITE PLAN |
| E2-1 | SINGLE LINE DIAGRAM AND LOAD CALCULATIONS |
| E3-1 | PANEL SCHEDULES |
| E3-2 | PANEL SCHEDULES |
| E4-1 | FIRST FLOOR ELECTRICAL PLAN |
| E4-2 | SECOND FLOOR ELECTRICAL PLAN |
| E5-1 | ROOF ELECTRICAL PLAN |
| E6-1 | FIRST FLOOR LIGHTING PLAN |
| E6-2 | SECOND FLOOR LIGHTING PLAN |
| E7-1 | LIGHTING CONTROL DETAILS |
| E7-2 | LIGHTING CONTROL DETAILS |
| E7-3 | GROW (HORTICULTURE) LIGHTING CONTROL DETAILS |
| E8-1 | TITLE 24 COMPLIANCE FORMS – INDOOR LIGHTING |
| E8-2 | TITLE 24 COMPLIANCE FORMS – OUTDOOR LIGHTING |
| E9-1 | ELECTRICAL DETAILS |
| E10-1 | UTILITY (SCE) DETAILS |
| E10-2 | UTILITY (SCE) DETAILS |



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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

ELECTRICAL NOTES, APPLICABLE CODES, AND DRAWING INDEX

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTLA SET |

PA / PM:
DRAWN BY:
JOB NO.: XXXX

SHEET
E0-1

04/15/2021 PLAN CHECK SUBMITTAL SET

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

# FIXTURE SCHEDULE

| TYPE | SYMBOL | | LAMPS | | | WATTAGE/ FIXTURE | VOLTAGE | BALLAST | FIXTURE DESCRIPTION | MANUFACTURER | MANUFACTURER CATALOG # | MOUNTING | APPLICATION | SCH. NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NRL. FIX. | EM. FIX. | NO. | TYPE | WATT | | | | | | | | | |
| A | | AE | – | LED | – | 39 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER TO 1% DIMMING | 2'X4' LED ARCHITECTURAL TROFFER LUMINAIRE;<br>FIXTURE DELIVERED LUMENS: 49,19 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | COLUMBIA LIGHTING | NORMAL FIXTURE:<br>LCAT24–9–40–ML–G–[BLANK]–[BLANK]–ED1–U<br><br>EMERGENCY FIXTURE:<br>LCAT24–9–40–ML–G–[BLANK]–[BLANK]–ED1–U–ELL14ST | RECESSED | LOBBY, SECURITY ROOM, OFFICES, BREAK ROOM, DISTRIBUTION, VAULT, EQUIPMENT ROOM, HALLWAYS | 1 |
| B | | BE | – | LED | – | 29 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER TO 1% DIMMING | 2'X2' LED ARCHITECTURAL TROFFER LUMINAIRE;<br>FIXTURE DELIVERED LUMENS: 3,423 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | COLUMBIA LIGHTING | NORMAL FIXTURE:<br>LCAT22–9–40–ML–G–[BLANK]–[BLANK]–ED1–U<br><br>EMERGENCY FIXTURE:<br>LCAT22–9–40–ML–G–[BLANK]–[BLANK]–ED1–U–ELL14ST | RECESSED | LOBBY | 1 |
| C | | CE | – | LED | – | 39 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | 2'X4' LENSED AND GASKETED LED TROFFER LUMINAIRE;<br>WET LOCATION LISTED;<br>FIXTURE DELIVERED LUMENS: 4,792 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | COLUMBIA LIGHTING | NORMAL FIXTURE:<br>LJT24–40–ML–G–FS–A12125F–ED–U–G3<br><br>EMERGENCY FIXTURE:<br>LJT24–40–ML–G–FS–A12125F–ED–U–G3–ELL14 | RECESSED | MANUFACTURING ROOM | 1 |
| D | | DE | – | LED | – | 18 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | 6" APERTURE RECESSED LED DOWNLIGHT LUMINAIRE WITH MATTE WHITE REFLECTOR AND FLANGE;<br>FIXTURE DELIVERED LUMENS: 1400 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | PRESCOLITE | NORMAL FIXTURE:<br>LC6SL(HOUSING)–6LCSL(TRIM)–14L–40K–8–WT<br><br>EMERGENCY FIXTURE:<br>LC6SL–EM(HOUSING)–6LCSL(TRIM)–14L–40K–8–WT–EM | RECESSED | HALLWAY, HOUSEKEEPING, WOMEN & MEN RESTROOMS | 1 |
| E | | EE | – | LED | – | 41 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | 4' LENSED STRIPLIGHT LED FIXTURE, LISTED FOR DAMP LOCATIONS.<br><br>FIXTURE DELIVERED LUMENS: 4,614 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | COLUMBIA LIGHTING | NORMAL FIXTURE:<br>MSP–4–9–40–ML–C–W–ED–U–PAF<br><br>EMERGENCY FIXTURE:<br>MSP–4–9–40–ML–C–W–ED–U–PAF–ELL14<br>EMERGENCY BATTERY PACK INSTALLED, 1400 LUMENS | SURFACE | HALLWAYS, REFRIGERATION TANK ROOM, DRY ROOM, STAIRCASES, TRIM ROOM, DRYING ROOM | 1 3 |
| F | | FE | – | LED | – | 41 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | 4' LENSED STRIPLIGHT LED FIXTURE, LISTED FOR DAMP LOCATIONS. PROVIDED WITH ACCESSORY: CSHC (CHAIN HANGER ASSEMBLY)<br><br>FIXTURE DELIVERED LUMENS: 4,614 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | COLUMBIA LIGHTING | NORMAL FIXTURE:<br>MSP–4–9–40–ML–C–W–ED–U–PAF<br><br>EMERGENCY FIXTURE:<br>MSP–4–9–40–ML–C–W–ED–U–PAF–ELL14<br>EMERGENCY BATTERY PACK INSTALLED, 1400 LUMENS | PENDANT | HALLWAYS, SHIPPING AND RECEIVING AREA | 1 3 |
| G | NA | GE | – | LED | – | 20 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | 2' VAPORTIGHT GREEN LED LUMINAIRE,<br>FIXTURE DELIVERED LUMENS: 1,069 LUMENS;<br>LED COLOR TEMPERATURE: GREEN LED | GROWLITE LIGHTING | NORMAL FIXTURE:<br>NA<br><br>EMERGENCY FIXTURE:<br>GLE–GL–BB<br>EMERGENCY BATTERY PACK INSTALLED, 715 LUMENS | SURFACE OR PENDANT | GROW ROOMS (FOR GENERAL LIGHTING AND EMERGENCY EGRESS ILLUMINATION) | 1 3 |
| GH | | NA | – | 1000W HPS (HIGH PRESSURE SODIUM LAMP) | – | 1,045 | 277 | INTEGRATED POWER SUPPLY AND DIMMING DRIVER | HPS GROW (HORTICULTURE) LIGHT<br>PROVIDED WITH FLEXIBLE CORD AND 20A, 277V AC, 2–POLE, 3–WIRE, GROUNDING TYPE, TWIST–LOCK (NEMA L7–20P) POWER PLUG. | LUXX LIGHTING | NORMAL FIXTURE:<br>LUX–DE100–277<br><br>EMERGENCY FIXTURE:<br>NA | SURFACE OR PENDANT | GROW ROOMS (CULTIVATION LIGHTING) | 1 3 |
| GL | | NA | – | LED | – | 645 | 277 | INTEGRATED POWER SUPPLY AND DIMMING DRIVER | 4'X4' LED GROW (HORTICULTURE) LIGHT<br>PROVIDED WITH FLEXIBLE CORD AND 20A, 277V AC, 2–POLE, 3–WIRE, GROUNDING TYPE, TWIST–LOCK (NEMA L7–20P) POWER PLUG. | LUXX LIGHTING | NORMAL FIXTURE:<br>LUX–645–277<br><br>EMERGENCY FIXTURE:<br>NA | SURFACE OR PENDANT | GROW ROOM #4 (CULTIVATION LIGHTING) | 1 3 |
| H | | HE | – | LED | – | 34 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | 4' LED WALL MOUNTED LENSED FIXTURE, LISTED FOR DAMP LOCATIONS. PROVIDED WITH INTEGRATED OCCUPANCY SENSOR.<br>FIXTURE DELIVERED LUMENS: 4000 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | LITECONTROL BY HUBBELL LIGHTING | NORMAL FIXTURE:<br>67L–W–D–4–SQ–C1–40K–D100–D01–1C–UNV–W1–SO4<br><br>EMERGENCY FIXTURE:<br>67L–W–D–4–SQ–C1–40K–D100–D01–1C–UNV–EF–W1–SO4 | WALL MOUNTED | STAIRWELL | |
| O | | OE | – | LED | – | 53 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | WALL MOUNTED EXTERIOR LED FIXTURE WITH FULL CUT–OFF FOR UP–LIGHT. LISTED FOR WET LOCATIONS. FIXTURE SHALL BE STEP DIM CONTROLLED WITH FIXTURE MOUNTED MOTION SENSOR. PROVIDE ONE REMOTE CONTROL TO PROGRAM DIMMING SETTINGS.<br>FIXTURE DELIVERED LUMENS: 5300 LUMENS;<br>LED COLOR TEMPERATURE: 4000 KELVIN | SPAULDING FROM HUBBELL LIGHTING | NORMAL FIXTURE:<br>TRP–30L–4K–053–4–U–SCP<br><br>EMERGENCY FIXTURE:<br>TRP–30L–4K–053–4–U–SCP–BBU | SURFACE | ABOVE THE EXIT DOORS | |
| XB | NA | XB | – | LED | – | 4 | 277 | INTEGRATED POWER SUPPLY AND 0–10V DIMMING DRIVER | UL924 RATED EMERGENCY BATTERY UNIT.<br>THIS UNIT SHALL INCLUDED: THERMOPLASTIC HOUSING, TWO LED BUG–EYE LAMPS, AND 90 MINUTES EMERGENCY BATTERY UNIT. | DUAL LITE FROM HUBBEL LIGHTING OR PRE–APPROVED EQUIVALENT | EV SERIES–EV–4–D–I–20L (120/277VAC INPUT) | SURFACE | EMERGENCY LIGHTING | 2 |
| XE | NA | XE | – | LED | – | 1.6 | 277 | INTEGRATED POWER SUPPLY, DRIVER AND BATTERY PACK | UL924 RATED COMBINATION EMERGENCY BATTERY UNIT.<br>THIS UNIT SHALL INCLUDED: EXIT SIGN UNIT, THERMOPLASTIC HOUSING, SINGLE OR DOUBLE FACE AS NEEDED, TWO LED BUG–EYE LAMPS, AND 90 MINUTES EMERGENCY BATTERY UNIT. | DUAL LITE FROM HUBBEL LIGHTING OR PRE–APPROVED EQUIVALENT | EVC SERIES EVC–U–R–W–D–I (120/277VAC INPUT) | SURFACE CEILING MOUNTED OR WALL MOUNTED | EXIT PATHWAYS | 2 |
| XX | NA | XX | – | LED | – | 1.6 | 277 | INTEGRATED POWER SUPPLY, DRIVER AND BATTERY PACK | UL924 RATED EXIT SIGN UNIT RATED FOR WET LOCATION WITH IMPACT–RESISTANT POLYCARBONATE ENCLOSURE AND COVER, SINGLE FACE, AND 90 MINUTES EMERGENCY BATTERY UNIT. | DUAL LITE FROM HUBBEL LIGHTING OR PRE–APPROVED EQUIVALENT | EVE4X SERIES EVE4X–R–W–E–I (120/277VAC INPUT) | SURFACE CEILING MOUNTED OR WALL MOUNTED | WET LOCATIONS/ EXTERIOR AREA | 2 |

## LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

(1) PROVIDE SEISMIC SAFETY WIRES, FOR ALL CEILING MOUNTED AND PENDANT LIGHT FIXTURES, IN ADDITIONAL TO THE FIXTURE'S MOUNTING SUPPORTS. LIGHT FIXTURES SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. ANY PENDANT FIXTURE THAT MAY HIT AN OBJECT IN 45 DEGREE SWING SHALL BE BRACED TO RESTRAIN THE FIXTURE AGAINST SWINGING.

(2) HOUSING COLOR AND LEGEND COLOR OF THE EXIT SIGN AND HOUSING COLOR OF THE BUGEYES SHALL BE COORDINATED WITH THE ARCHITECT.

(3) THIS FIXTURE HAS OPTION TO BE SURFACE OR PENDANT MOUNTED. FULLY COORDINATE WITH THE ARCHITECT OF RECORD FOR THE FIXTURE'S MOUNTING, PRIOR TO ORDERING. CONSULT WITH THE FIXTURE'S MANUFACTURER TO PROVIDE ALL NECESSARY MOUNTING ACCESSORIES.

## LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

1. LIGHT FIXTURE FINISH/COLOR/TRIM/BAFFLE SHALL BE COORDINATED AND APPROVED BY OWNER AND ARCHITECT DURING THE PRODUCT SUBMITTAL AND BEFORE PROCUREMENT.

2. LED COLOR TEMPERATURE OF THE LIGHTING FIXTURES SHALL BE, AS FOLLOWS:
   2.1. 4000K FOR FIXTURES THAT ARE TO BE INSTALLED FOR BUILDING INTERIOR SPACES/ROOMS.
   2.2. 4000K FOR FIXTURES THAT ARE TO BE INSTALLED ON EXTERIOR WALLS AND AT THE PARKING LOT LIGHTING POLES.

3. ALL COMPONENTS OF THE LIGHTING CONTROL SYSTEM THAT CONTROLS THE EMERGENCY EGRESS LIGHTING AND THE BATTERY/INVERTER SYSTEMS THAT ARE POWERING THE EGRESS LIGHTING AND EXIST SIGNS SHALL BE UL924 LISTED.

4. CONTRACTOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
   4.1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL CEILING TYPES, PRIOR TO ORDERING THE LIGHTING FIXTURES. CONTRACTOR SHALL FULLY COORDINATE FOR THE FIXTURES' INSTALLATION AND PROVIDE MOUNTING HARDWARE/BRACKETS/ACCESSORIES AND SEISMIC BRAISING FOR ALL LIGHTING FIXTURES.
   4.2. ALL LIGHTING FIXTURES' FINISHES, COLORS, TRIMS, BAFFLES, AND LENSES SHALL BE SELECTED AND VERIFIED BY ARCHITECT PRIOR TO ORDERING. NO ADDITIONAL COSTS WILL BE ALLOWED TO RECTIFY MISTAKES FOR THESE ITEMS. DISCREPANCIES FOR THESE ITEMS SHALL BE DOCUMENTED IN WRITING TO THE GENERAL CONTRACTOR PRIOR TO BID AND ORDERING.

5. ALL LIGHTING FIXTURES AND LIGHTING CONTROL COMPONENTS SHALL BE UNDERWRITERS LABORATORY (UL) OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) LISTED, AND SHALL BE IN COMPLIANCE WITH APPLICABLE INDUSTRY STANDARDS AND CODES.

6. ALL LIGHTING FIXTURES SHALL HAVE A MINIMUM OF 2–YEARS MANUFACTURER WARRANTY ON ALL COMPONENTS.

# ELECTRICAL SYMBOLS

S SWITCH, 120–277V, 20A, SPECIFICATION GRADE. TO BE WALL MOUNTED AT +44" AFF (OUN). SUBSCRIPT 'a', 'b', 'c', ETC. INDICATES INDIVIDUAL SWITCHING ZONES.
OTHER SUBSCRIPTS, INDICATES:
S3 : 3–WAY SWITCH S4 : 4–WAY SWITCH SK : KEYED SWITCH
SM : MOTOR RATED MANUAL STARTER

D DIMMER/SWITCH, 120–277V, 20A, SPECIFICATION GRADE. TO BE WALL MOUNTED AT +44" AFF (OUN). SUBSCRIPT 'a', 'b', 'c', ETC. INDICATES INDIVIDUAL SWITCHING ZONES.
OTHER SUBSCRIPTS, INDICATES:
D3 : 3–WAY DIMMER/SWITCH D4 : 4–WAY DIMMER/SWITCH DK : KEYED DIMMER/SWITCH
CONTRACTOR SHALL VERIFY LIGHTING FIXTURE'S DIMMING TECHNOLOGY (E.G. INC, ELV, MLV, 0–10V) WITH THE FIXTURE'S MANUFACTURER AND PROVIDE LIGHTING DIMMERS THAT ARE FULLY COMPATIBLE WITH THE FIXTURE'S DIMMING TECHNOLOGY.

DUPLEX POWER RECEPTACLE, 120V, 20A, SPECIFICATION GRADE. TO BE WALL MOUNTED AT +18" AFF (OUN).
'WP' DESIGNATION FOR THE RECEPTACLE DENOTES WITH THE RECEPTACLE SHALL BE INSTALLED WITHIN A WEATHERPROOF BACK BOX AND A NEMA 3R WHILE–IN–USE COVER. TYPICAL FOR ALL RECEPTACLES.

GFCI DUPLEX POWER RECEPTACLE, 120V, 20A, SPECIFICATION GRADE. TO BE WALL MOUNTED, INSTALLED AT +18" AFF (OUN).

HALF–CONTROLLED/HALF–HOT DUPLEX POWER RECEPTACLE, 120V, 20A, SPECIFICATION GRADE. TO BE WALL MOUNTED AT +18" AFF (OUN).

SPECIAL RECEPTACLE, SPECIFICATION GRADE. TO BE WALL MOUNTED AT +18" AFF (OUN). REFER TO THE ELECTRICAL DRAWINGS' KEYNOTE OR TO THE EQUIPMENT SCHEDULE FOR THE RECEPTACLE'S AMP, VOLTAGE, AND NEMA RATING.

SPECIAL RECEPTACLE, SPECIFICATION GRADE. TO BE CEILING MOUNTED (OUN). REFER TO THE ELECTRICAL DRAWINGS' KEYNOTE OR TO THE EQUIPMENT SCHEDULE FOR THE RECEPTACLE'S AMP, VOLTAGE, AND NEMA RATING.

DOUBLE DUPLEX POWER RECEPTACLE, 120V, 20A, SPECIFICATION GRADE. TO BE WALL MOUNTED AT +18" AFF (OUN).

DUPLEX POWER RECEPTACLE, 120V, 20A, SPECIFICATION GRADE. TO BE CEILING MOUNTED.

GFCI DUPLEX POWER RECEPTACLE, 120V, 20A, SPECIFICATION GRADE. TO BE CELING MOUNTED.

DUPLEX POWER RECEPTACLE, 120V, 20A, SPECIFICATION GRADE. TO BE FLOOR MOUNTED WITHIN A FLOOR BOX WITH WALK–ON TYPE COVER.

JUNCTION BOX, SIZE AS REQUIRED PER CEC. TO BE WALL MOUNTED AT +18" AFF (OUN).

JUNCTION BOX, SIZE AS REQUIRED PER CEC. TO BE CEILING MOUNTED.

F FUSED DISCONNECT SWITCH, HEAVY DUTY TYPE, SWITCH AND FUSE SIZE AS INDICATED ON THE ELECTRICAL DRAWINGS.
'WP' DESIGNATION FOR DISCONNECT SWITCHES DENOTES WEATHERPROOF (NEMA–3R) TYPE.

NON–FUSED DISCONNECT SWITCH, HEAVY DUTY TYPE, SWITCH SIZE AS INDICATED ON THE ELECTRICAL DRAWINGS.

TRANSFORMER, DRY TYPE, 2016 DOE COMPLIANT. SIZE, VOLTAGE, AND ENCLOSURE RATING AS INDICATED ON THE ELECTRICAL DRAWINGS.

ELECTRICAL MOTOR

CIRCUIT BREAKER

FUSE AND DISCONNECT SWITCH

DISCONNECT SWITCH

SURFACE MOUNTED PANELBOARD

RECESS MOUNTED PANELBOARD

24"H X 24"W X 6"D SIZE TERMINAL CABINET FOR SIGNAL SYSTEM. TO BE SURFACE MOUNTED ON THE WALL AT 6'–6" AFF TO THE TOP OF TERMINAL CABINET, U.O.N.

LCP MAIN LIGHTING CONTROL PANEL. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION AND LIGHTING CONTROL PANEL'S TYPICAL WIRING DIAGRAM.

RC REMOTE LIGHTING CONTROLLER (ROOM CONTROLLER). REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION AND REMOTE LIGHTING CONTROLLER TYPICAL WIRING DIAGRAM.

OR LIGHTING OVERRIDE SWITCH. LOW VOLTAGE. TO BE WALL MOUNTED AT 44" AFF (OUN). PROVIDE 3/4" CONDUIT CONNECTION FROM THE BACK–BOX TO THE ACCESSIBLE CEILING SPACE. PROVIDE LOW VOLTAGE CABLE AS REQUIRED PER THE LIGHTING CONTROL MANUFACTURER.

D4 LIGHTING CONTROL STATION. LOW VOLTAGE. TO BE WALL MOUNTED AT 44" AFF (OUN). PROVIDE 3/4" CONDUIT CONNECTION FROM THE BACK–BOX TO THE ACCESSIBLE CEILING SPACE. PROVIDE LOW VOLTAGE CABLE AS REQUIRED PER THE LIGHTING CONTROL MANUFACTURER.

WS COMBINATION SWITCH & OCCUPANCY SENSOR, SPECIFICATION GRADE. CALIFORNIA TITLE 20 COMPLIANT. TO BE WALL MOUNTED AT 44" AFF (OUN).

WD COMBINATION 0–10V DIMMER & OCCUPANCY SENSOR, SPECIFICATION GRADE. CALIFORNIA TITLE 20 COMPLIANT. TO BE WALL MOUNTED AT 44" AFF, (OUN).

OS OCCUPANCY SENSOR WITH LOW VOLTAGE WIRING. CALIFORNIA TITLE 20 COMPLIANT. TO BE CEILING MOUNTED.

PS INDOOR PHOTO SENSOR WITH LOW VOLTAGE WIRING. CALIFORNIA TITLE 20 COMPLIANT. TO BE CEILING MOUNTED.

PP POWER PACK, 120V, 20A, SPECIFICATION GRADE. CALIFORNIA TITLE 20 COMPLIANT.

DATA OUTLET WITH (2) DATA INSERT MODULES. TO BE WALL MOUNTED AT 18" AFF (OUN). PROVIDE 1 1/4" CONDUIT CONNECTION FROM THE OUTLET BACK–BOX TO THE ACCESSIBLE CEILING SPACE. PROVIDE AND TERMINATE (2) CAT–6 DATA CABLES (BLUE IN COLOR) FROM THE OUTLET TO NEW PATCH PANEL AT THE NEW OFCI IDF/MDF. COORDINATE WITH P.M. FOR THE IDF/MDF LOCATION.

SAME AS ABOVE, EXCEPT TO BE CEILING MOUNTED.

SAME AS ABOVE, EXCEPT TO BE FLOOR MOUNTED WITHIN A FLOOR BOX WITH WALK–ON TYPE COVER.

DATA AND VOICE COMBINATION OUTLET WITH (2) DATA INSERT MODULES AND (1) VOICE INSERT MODULE. TO BE WALL MOUNTED AT 18" AFF (OUN). PROVIDE 1 1/4" CONDUIT CONNECTION FROM THE OUTLET BACK–BOX TO THE ACCESSIBLE CEILING SPACE. PROVIDE AND TERMINATE (2) CAT–6 DATA CABLES (BLUE IN COLOR) AND (1) CAT–6 VOICE CABLES (WHITE IN COLOR) FROM THE OUTLET TO NEW DATA AND VOICE PATCH PANELS, RESPECTIVELY, AT THE NEW OFCI IDF/MDF. COORDINATE WITH P.M. FOR THE IDF/MDF LOCATION.

SAME AS ABOVE, EXCEPT TO BE FLOOR MOUNTED WITHIN A FLOOR BOX WITH WALK–ON TYPE COVER.


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STATE OF CALIFORNIA


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TENANT IMPROVEMENT
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BALDWIN PARK, CA 91706

ELECTRICAL SYMBOLS AND LIGHTING FIXTURE SCHEDULE

| REMARKS | DATE |
|---|---|
| PLAN CHECK SUBMITTAL SET | 04/15/2021 |

PA / PM:
DRAWN BY:
JOB NO.: XXXX

SHEET
E0-2

04/15/2021 PLAN CHECK SUBMITTAL SET


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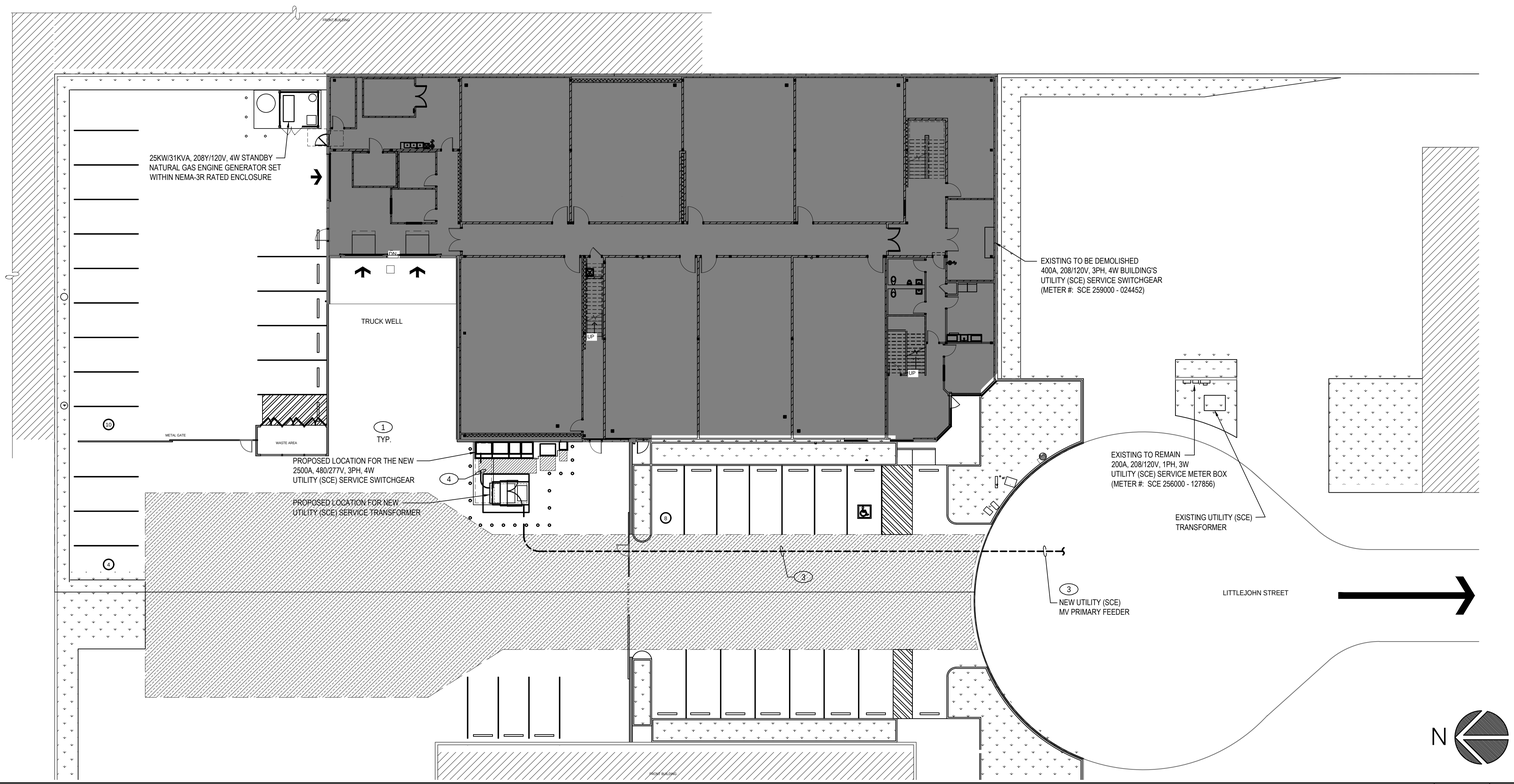
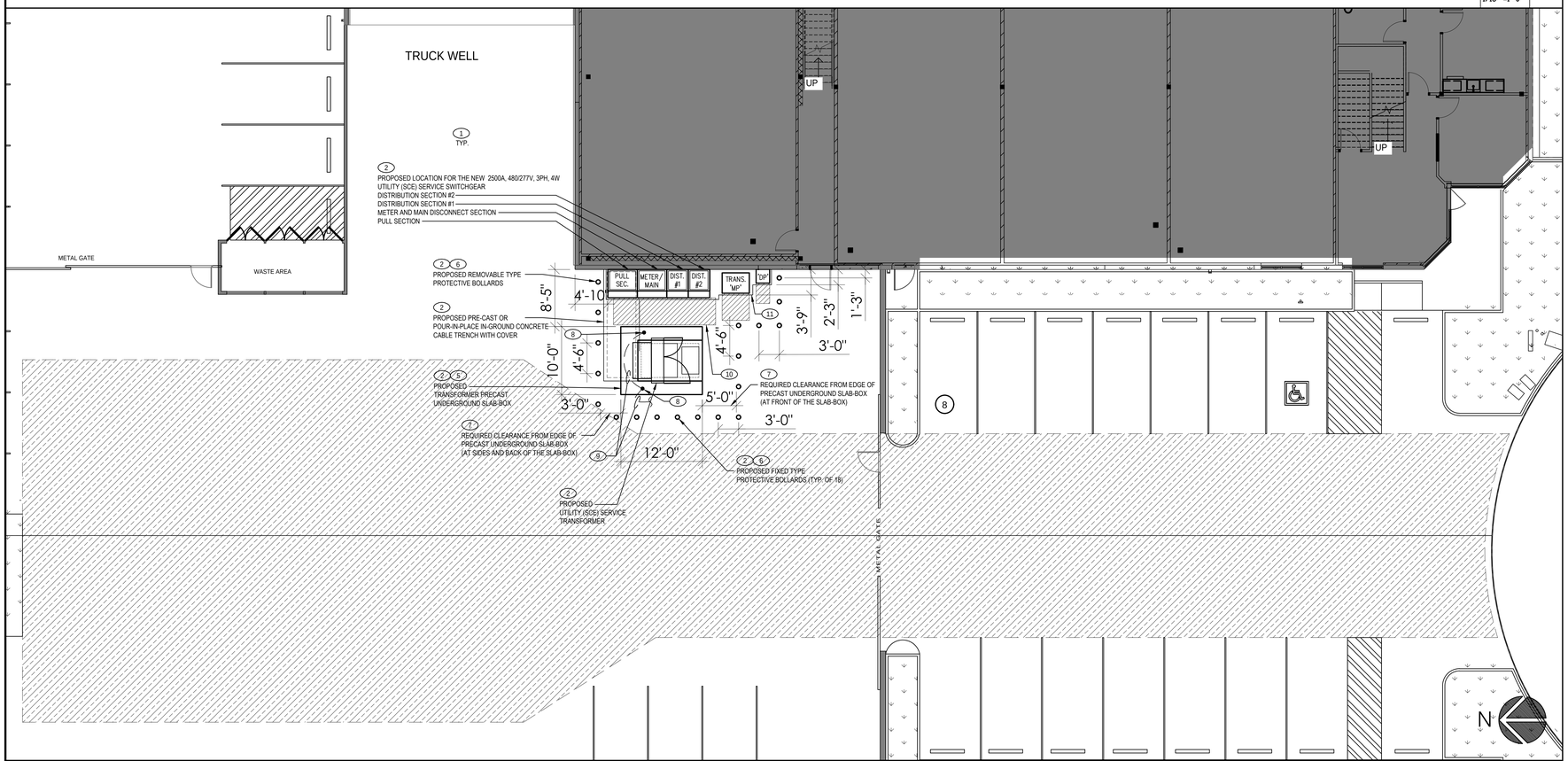



ELECTRICAL SITE PLAN — SCALE: 1/16" =1'-0" — 1




ENLARGED ELECTRICAL SITE PLAN — SCALE: 1/8" =1'-0" — 2

## GENERAL NOTES:

1. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND OBTAIN THE INFORMATION NECESSARY TO BE THOROUGHLY FAMILIARIZED WITH THE EXISTING CONDITIONS AFFECTING THE ELECTRICAL WORK.
2. ALTHOUGH INFORMATION SHOWN ON THIS PROJECT'S ELECTRICAL DRAWINGS, WHICH DESCRIBING THE EXISTING CONDITIONS, HAVE BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES, HOWEVER CANNOT BE GUARANTEED AS ACCURATE, IN ALL RESPECTS. VERIFY THE EXISTING CONDITIONS AND INSTALLATION PRIOR TO BID.
3. CONTRACTOR TO FOLLOW THE OWNER'S DIRECTION ON ALL ELECTRICAL MATERIALS AND EQUIPMENT THAT ARE TO BE REMOVED FROM THE EXISTING INSTALLATION AND NOT INDICATED TO BE REUSED. CONTRACTOR SHALL EITHER PROTECT, BOX, AND RETURN THE REMOVED ITEMS TO THE OWNER, OR PROPERLY DISPOSE THEM AT THE CONTRACTOR'S EXPENSE.
4. ALL WORK DEMOLISHED SHALL BE REMOVED FROM THE PREMISES, EXCEPT THOSE ITEMS TO BE REUSED OR RETURNED TO OWNER OR AS OTHERWISE NOTED.
5. CONTRACTOR SHALL CONTACT, SOUTHERN CALIFORNIA EDISON (SCE) UTILITY COMPANY AND APPLY FOR THE NEW POWER SERVICE. CONTRACTOR THEN SHALL FULLY COORDINATE WITH THE SCE'S PLANING DEPARTMENT, ATTEND SITE VISIT WITH UTILITY COMPANY PLANNER, FILL OUT NECESSARY FORMS, SUBMIT DRAWINGS/INFORMATION, AND COOPERATE WITH THE UTILITY COMPANY, AS REQUIRED TO OBTAIN THE UTILITY COMPANY'S FINAL DESIGN DRAWINGS. THEN CONTRACTOR SHALL PROVIDE INSTALLATION AS NECESSARY PER THE UTILITY COMPANY'S DRAWINGS, STANDARDS, AND REQUIREMENT. ALL INSTALLATIONS RELATED TO POWER SERVICE, SHALL BE COORDINATED, INSPECTED, AND SIGNED OFF BY THE UTILITY COMPANY.

## KEYNOTES NOTES:

1. CONTRACTOR SHALL FULLY COORDINATE WITH THE SOUTHERN CALIFORNIA EDISON (SCE) UTILITY COMPANY'S PLANING DEPARTMENT, ATTEND SITE VISIT WITH UTILITY COMPANY PLANNER, FILL OUT NECESSARY FORMS, SUBMIT DRAWINGS/INFORMATION, AND COOPERATE WITH THE UTILITY COMPANY, AS REQUIRED TO OBTAIN THE UTILITY COMPANY'S FINAL DESIGN DRAWINGS. THEN THE CONTRACTOR SHALL PROVIDE INSTALLATION AS NECESSARY PER THE UTILITY COMPANY'S DRAWINGS, STANDARDS, AND REQUIREMENT. ALL INSTALLATIONS RELATED TO POWER SERVICE, SHALL BE COORDINATED, INSPECTED, AND SHALL BE SIGNED OFF BY THE UTILITY COMPANY.
2. PROPOSED LOCATION FOR THE NEW SERVICE SWITCHGEAR, UTILITY TRANSFORMER, PRE-CAST CONCRETE SLAB BOX, IN-GROUND CONCRETE CABLE TRENCH, AND PROTECTIVE BOLLARDS. EXACT LOCATIONS AND INSTALLATIONS SHALL BE PER THE SCE'S FINAL DESIGN DRAWINGS AND REQUIREMENTS.
3. (1) 5" CONDUIT FOR THE UTILITY'S PRIMARY FEEDER. CONDUIT TO BE INSTALLED UNDERGROUND FROM THE UTILITY'S MEDIUM-VOLTAGE (MV) BREAKER/SWITCH TO THE UTILITY TRANSFORMER SLAB BOX, PER THE UTILITY'S REQUIREMENTS. PROVIDE TRENCHING, UNDERGROUND CONDUIT(S), ENCASEMENT, BACKFILL, COMPACTION, AND FINISH SURFACE. CABLES WILL BE INSTALLED BY SCE.
4. THE UTILITY'S SECONDARY (SERVICE) FEEDER TO BE INSTALLED FROM UTILITY TRANSFORMER TO THE PULL SECTION AT THE UTILITY SERVICE SWITCHGEAR 'MS', PER THE UTILITY REQUIREMENTS. PROVIDE PRE-CAST OR POUR-IN-PLACE IN-GROUND CONCRETE CABLE TRENCH WITH COVER. CABLES WILL BE INSTALLED BY SCE.
5. FOR UTILITY TRANSFORMER PRE-CAST CONCRETE SLAB BOX TYPICAL DRAWINGS AND REQUIREMENTS, REFER TO SHEET E10-1, DETAILS #1 TO #6.
6. PROTECTIVE BARRIER (BOLLARD) MADE OF 4" X 60" LENGTH GALVANIZED STEEL PIPE WITH MINIMUM OF 1/4" WALL THICKNESS AND FILLED WITH CONCRETE, PER UTILITY'S REQUIREMENTS. FOR THE PROTECTIVE BARRIER'S TYPICAL DRAWINGS AND REQUIREMENTS, REFER TO SHEET E10-2, DETAILS #1, #2, AND #3.
7. MAINTAIN THE UTILITY COMPANY REQUIRED CLEARANCE AROUND THE UTILITY TRANSFORMER'S SLAB BOX.
8. 5/8" X 8' COPPER-CLAD STEEL GROUNDING ROD PER UTILITY'S REQUIREMENTS. INSTALL TWO GROUNDING RODS, MINIMUM OF 6' APART.
9. 1#3/0 AWG BARE COPPER GROUNDING ELECTRODE CONDUCTOR AND COPPER CLAMPS, TO BE INSTALLED BETWEEN THE GROUNDING RODS AND FROM THE GROUNDING RODS(S) TO THE UTILITY TRANSFORMER, PER THE UTILITY REQUIREMENTS.
10. AREA SHOWN BY THE HATCHED LINES, INDICATES THE REQUIRED CLEARANCE, FOR ELECTRICAL WORKING SPACE, IN FRONT OF THE ELECTRICAL EQUIPMENT, PER CEC 110.26(A)(1).
11. HOUSE KEEPING CONCRETE PAD. THE CONCRETE PAD SHALL BE INSTALLED PER STRUCTURAL DRAWINGS/DETAILS, DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD AND APPROVED BY THE CITY. TOP OF THE CONCRETE PAD SHALL NOT BE HIGHER THAN 2-1/2-INCHES FROM THE FINISHED FLOOR.

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ELECTRICAL SITE PLAN

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET
E1-1

04/15/2021 PLAN CHECK SUBMITTAL SET

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| TAG # | CONDUIT | PHASE/NEUTRAL | GROUND | NOTES |
|---|---|---|---|---|
| 2000.4X | 6-3.5" | 6 SETS OF 5 #500 KCMIL | 1#250KCMIL PER SET | 1 |
| 2000.4 | 6-3" | 6 SETS OF 4 #500 KCMIL | 1#250KCMIL PER SET | - |
| 2000.3 | 6-3" | 6 SETS OF 3 #500 KCMIL | 1#250KCMIL PER SET | - |
| 1600.4X | 5-3.5" | 5 SETS OF 5 #500 KCMIL | 1# 4/0AWG PER SET | 1 |
| 1600.4 | 5-3" | 5 SETS OF 4 #500 KCMIL | 1# 4/0AWG PER SET | - |
| 1600.3 | 5-3" | 5 SETS OF 3 #500 KCMIL | 1# 4/0AWG PER SET | - |
| 1200.4X | 4-3" | 4 SETS OF 5 #350 KCMIL | 1# 3/0AWG PER SET | 1 |
| 1200.4 | 4-3" | 4 SETS OF 4 #350 KCMIL | 1# 3/0AWG PER SET | - |
| 1200.3 | 4-2.5" | 4 SETS OF 3 #350 KCMIL | 1# 3/0AWG PER SET | - |
| 1000.4X | 3-3.5" | 3 SETS OF 4 #500 KCMIL | 1# 2/0AWG PER SET | 1 |
| 1000.4 | 3-3" | 3 SETS OF 4 #500 KCMIL | 1# 2/0AWG PER SET | - |
| 1000.3 | 3-3" | 3 SETS OF 3 #500 KCMIL | 1# 2/0AWG PER SET | - |
| 800.4X | 2-4" | 2 SETS OF 5 #500 KCMIL | 1# 1/0AWG PER SET | 1 |
| 800.4 | 2-3.5" | 2 SETS OF 4 #600 KCMIL | 1# 1/0AWG PER SET | - |
| 800.3 | 2-3" | 2 SETS OF 3 #600 KCMIL | 1# 1/0AWG PER SET | - |
| 600.4X | 2-3" | 2 SETS OF 5 #350 KCMIL | 1#1AWG PER SET | 1 |
| 600.4 | 2-3" | 2 SETS OF 4 #350 KCMIL | 1#1AWG PER SET | - |
| 600.3 | 2-2.5" | 2 SETS OF 3 #350 KCMIL | 1#1AWG PER SET | - |
| 500.4X | 2-3" | 2 SETS OF 5 #250 KCMIL | 1#2AWG PER SET | 1 |
| 500.4 | 2-2.5" | 2 SETS OF 4 #250 KCMIL | 1#2AWG PER SET | - |
| 500.3 | 2-2" | 2 SETS OF 3 #250 KCMIL | 1#2AWG PER SET | - |
| 450.4 | 2-2" | 2 SETS OF 4 # 4/0 AWG | 1#2AWG PER SET | - |
| 450.3 | 2-2" | 2 SETS OF 3 # 4/0 AWG | 1#2AWG PER SET | - |
| 400.4X | 2-2.5" | 2 SETS OF 5 # 3/0 AWG | 1#2AWG PER SET | 1 |
| 400.4 | 2-2" | 2 SETS OF 4 # 3/0 AWG | 1#2AWG PER SET | - |
| 400.3 | 2-2" | 2 SETS OF 3 # 3/0 AWG | 1#2AWG PER SET | - |
| 350.4X | 1-3.5" | 1 SETS OF 5 #500 KCMIL | 1#2AWG PER SET | 1 |
| 350.4 | 1-3" | 1 SETS OF 4 #500 KCMIL | 1#2AWG PER SET | - |
| 350.3 | 1-3" | 1 SETS OF 3 #500 KCMIL | 1#2AWG PER SET | - |
| 300.4X | 1-3" | 1 SETS OF 5 #350 KCMIL | 1#4AWG PER SET | 1 |
| 300.4 | 1-3" | 1 SETS OF 4 #350 KCMIL | 1#4AWG PER SET | - |
| 300.3 | 1-2.5" | 1 SETS OF 3 #350 KCMIL | 1#4AWG PER SET | - |
| 250.4 | 1-2.5" | 1 SETS OF 4 #250 KCMIL | 1#4AWG PER SET | - |
| 250.3 | 1-2" | 1 SETS OF 3 #250 KCMIL | 1#4AWG PER SET | - |
| 225.4X | 1-2.5" | 1 SETS OF 5 # 4/0 AWG | 1#4AWG PER SET | 1 |
| 225.4 | 1-2" | 1 SETS OF 4 # 4/0 AWG | 1#4AWG PER SET | - |
| 225.3 | 1-2" | 1 SETS OF 3 # 4/0 AWG | 1#4AWG PER SET | - |
| 200.4 | 1-2" | 1 SETS OF 4 # 3/0 AWG | 1#6AWG PER SET | - |
| 200.3 | 1-2" | 1 SETS OF 3 # 3/0 AWG | 1#6AWG PER SET | - |
| 175.4X | 1-2" | 1 SETS OF 5 # 2/0 AWG | 1#6AWG PER SET | 1 |
| 175.4 | 1-2" | 1 SETS OF 4 # 2/0 AWG | 1#6AWG PER SET | - |
| 175.3 | 1-1.5" | 1 SETS OF 3 # 2/0 AWG | 1#6AWG PER SET | - |
| 150.4X | 1-2" | 1 SETS OF 5 # 1/0 AWG | 1#6AWG PER SET | 1 |
| 150.4 | 1-1.5" | 1 SETS OF 4 # 1/0 AWG | 1#6AWG PER SET | - |
| 150.3 | 1-1.25" | 1 SETS OF 3 # 1/0 AWG | 1#6AWG PER SET | - |
| 125.4X | 1-1.5" | 1 SETS OF 5 #1 AWG | 1#6AWG PER SET | 1 |
| 125.4 | 1-1.5" | 1 SETS OF 4 #1 AWG | 1#6AWG PER SET | - |
| 125.3 | 1-1.25" | 1 SETS OF 3 #1 AWG | 1#6AWG PER SET | - |
| 100.4X | 1-1.25" | 1 SETS OF 5 #2 AWG | 1#6AWG PER SET | 1 |
| 100.4 | 1-1.25" | 1 SETS OF 4 #2 AWG | 1#6AWG PER SET | - |
| 100.3 | 1-1.25" | 1 SETS OF 3 #2 AWG | 1#6AWG PER SET | - |
| 90.4 | 1-1.25" | 1 SETS OF 4 #2 AWG | 1#6AWG PER SET | - |
| 90.3 | 1-1.25" | 1 SETS OF 3 #2 AWG | 1#6AWG PER SET | - |
| 80.4 | 1-1.25" | 1 SETS OF 4 #2 AWG | 1#6AWG PER SET | - |
| 80.3 | 1-1.25" | 1 SETS OF 3 #2 AWG | 1#6AWG PER SET | - |
| 70.4X | 1-1.25" | 1 SETS OF 5 #4 AWG | 1#8AWG PER SET | 1 |
| 70.4 | 1-1" | 1 SETS OF 4 #4 AWG | 1#8AWG PER SET | - |
| 70.3 | 1-1" | 1 SETS OF 3 #4 AWG | 1#8AWG PER SET | - |
| 60.4X | 1-1.25" | 1 SETS OF 5 #4 AWG | 1#8AWG PER SET | 1 |
| 60.4 | 1-1" | 1 SETS OF 4 #4 AWG | 1#8AWG PER SET | - |
| 60.3 | 1-1" | 1 SETS OF 3 #4 AWG | 1#8AWG PER SET | - |
| 50.4X | 1-1" | 1 SETS OF 5 #6 AWG | 1#10AWG PER SET | 1 |
| 50.4 | 1- 3/4" | 1 SETS OF 4 #6 AWG | 1#10AWG PER SET | - |
| 50.3 | 1- 3/4" | 1 SETS OF 3 #6 AWG | 1#10AWG PER SET | - |
| 40.4X | 1- 3/4" | 1 SETS OF 5 #8 AWG | 1#10AWG PER SET | 1 |
| 40.4 | 1- 3/4" | 1 SETS OF 4 #8 AWG | 1#10AWG PER SET | - |
| 40.3 | 1- 3/4" | 1 SETS OF 3 #8 AWG | 1#10AWG PER SET | - |
| 30.4 | 1- 3/4" | 1 SETS OF 4 #10 AWG | 1#10AWG PER SET | - |
| 30.3 | 1- 3/4" | 1 SETS OF 3 #10 AWG | 1#10AWG PER SET | - |
| 20.4 | 1- 3/4" | 1 SETS OF 4 #12 AWG | 1#12AWG PER SET | - |
| 20.3 | 1- 3/4" | 1 SETS OF 3 #12 AWG | 1#12AWG PER SET | - |
| 20.2 | 1- 3/4" | 1 SETS OF 2 #12 AWG | 1#12AWG PER SET | - |

FEEDER SCHEDULE GENERAL NOTES

1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THWN/THWN INSULATION.
2. FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.
3. THE FEEDER SCHEDULE IS FOR EMT, RSC, AND SCH 40 PVC CONDUIT. USE 1 SIZE LARGER THAN THOSE SHOWN FOR SCH 80 PVC CONDUIT.

FEEDER SCHEDULE REMARKS

1. 200% NEUTRAL RATING FOR SERVICE FROM K FACTOR TRANSFORMERS.

## GENERAL NOTES:

1. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND OBTAIN THE INFORMATION NECESSARY TO BE THOROUGHLY FAMILIARIZED WITH THE EXISTING CONDITIONS AFFECTING THE ELECTRICAL WORK.
2. ALTHOUGH INFORMATION SHOWN ON THIS PROJECT'S ELECTRICAL DRAWINGS, WHICH DESCRIBING THE EXISTING CONDITIONS, HAVE BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES, HOWEVER CANNOT BE GUARANTEED AS ACCURATE, IN ALL RESPECTS. VERIFY THE EXISTING CONDITIONS AND INSTALLATION PRIOR TO BID.
3. CONTRACTOR SHALL CONTACT, SOUTHERN CALIFORNIA EDISON (SCE) UTILITY COMPANY AND APPLY FOR THE NEW POWER SERVICE. CONTRACTOR THEN SHALL FULLY COORDINATE WITH THE SCE'S PLANING DEPARTMENT, ATTEND SITE VISIT WITH UTILITY COMPANY PLANNER, FILL OUT NECESSARY FORMS, SUBMIT DRAWINGS/INFORMATION, AND COOPERATE WITH THE UTILITY COMPANY, AS REQUIRED TO OBTAIN THE UTILITY COMPANY'S FINAL DESIGN DRAWINGS. THEN CONTRACTOR SHALL PROVIDE INSTALLATION AS NECESSARY PER THE UTILITY COMPANY'S DRAWINGS, STANDARDS, AND REQUIREMENT. ALL INSTALLATIONS RELATED TO POWER SERVICE SHALL BE COORDINATED, INSPECTED, AND SIGNED OFF BY THE UTILITY COMPANY.
4. NEUTRAL SHALL ONLY BONDED TO THE GROUND ELECTRODE AT THE SERVICE SWITCHGEAR "MS" AND AT THE SECONDARY OF EACH STEP-DOWN TRANSFORMER.
5. ALL NEW SWITCHGEARS AND PANEL BOARDS SHALL BE FULLY RATED. SERIES RATED CIRCUIT BREAKER COMBINATIONS ARE NOT ACCEPTABLE.
6. THE INDICATED CONDUIT/CABLE LENGTHS ARE FOR VOLTAGE DROP CALCULATIONS PURPOSE AND SHALL NOT BE USED FOR THE COST ESTIMATE.

## KEYNOTES NOTES:

(1) REFER TO THE "ELECTRICAL SITE PLAN", SHEET E1-1, FOR THE EQUIPMENT'S PROPOSED LOCATION.

(2) THE SERVICE SWITCHGEAR'S MAIN CIRCUIT BREAKERS SHALL BE UL LISTED AS A FULLY (100%) RATED BREAKER AND SHALL BE BACK-FEED (REVERSE FEED) TYPE BREAKER. THE MAIN BREAKER SHALL BE PROVIDED WITH SHUNT-TRIP AND INTEGRAL GROUND FAULT DEVICES.
THE MAIN BREAKER ALSO SHALL BE EQUIPPED WITH ELECTRONIC TRIP-UNIT PROVIDING RMS SENSING, FIELD-REPLACEABLE RATING PLUG, AND THE FOLLOWING FIELD-ADJUSTABLE SETTINGS:
1. INSTANTANEOUS TRIP.
2. LONG- AND SHORT-TIME PICKUP LEVELS.
3. LONG- AND SHORT-TIME TIME ADJUSTMENTS.
4. GROUND-FAULT PICKUP LEVEL, TIME DELAY, AND I2T RESPONSE.

(3) BREAKERS SHALL BE FURNISHED WITH LOCKOUT PROVISIONS APPROVED BY THE STATE OF CALIFORNIA FOR PADLOCKING. TYPICAL FOR ALL SWITCHBOARDS.

(4) THE MANUFACTURER PROVIDED MAIN BONDING JUMPER PER CEC 250.24(A)(4), 250.28(C), 250.8(A)(7).

(5) PROVIDE BUILDING MAIN GROUNDING ELECTRODE SYSTEM. REFER TO ELECTRICAL DETAIL#1, SHEET E9-1, FOR THE ADDITIONAL REQUIREMENTS.

(6) PROVIDE BUILDING MAIN GROUNDING ELECTRODE SYSTEM. REFER TO ELECTRICAL DETAIL#2, SHEET E9-1, FOR THE ADDITIONAL REQUIREMENTS.

(7) RECONNECT THE EXISTING UFER GROUNDING ELECTRODE. IF THE EXISTING UFER GROUNDING ELECTRODE HAS DAMAGED, CAN NOT BE ACCESSED, OR IS MORE THAN 100' APART FROM THE GROUNDING ELECTRODE LOCATION THEN INSTALL A GROUNDING ROD PER DETAIL #3, SHEET E9-1.

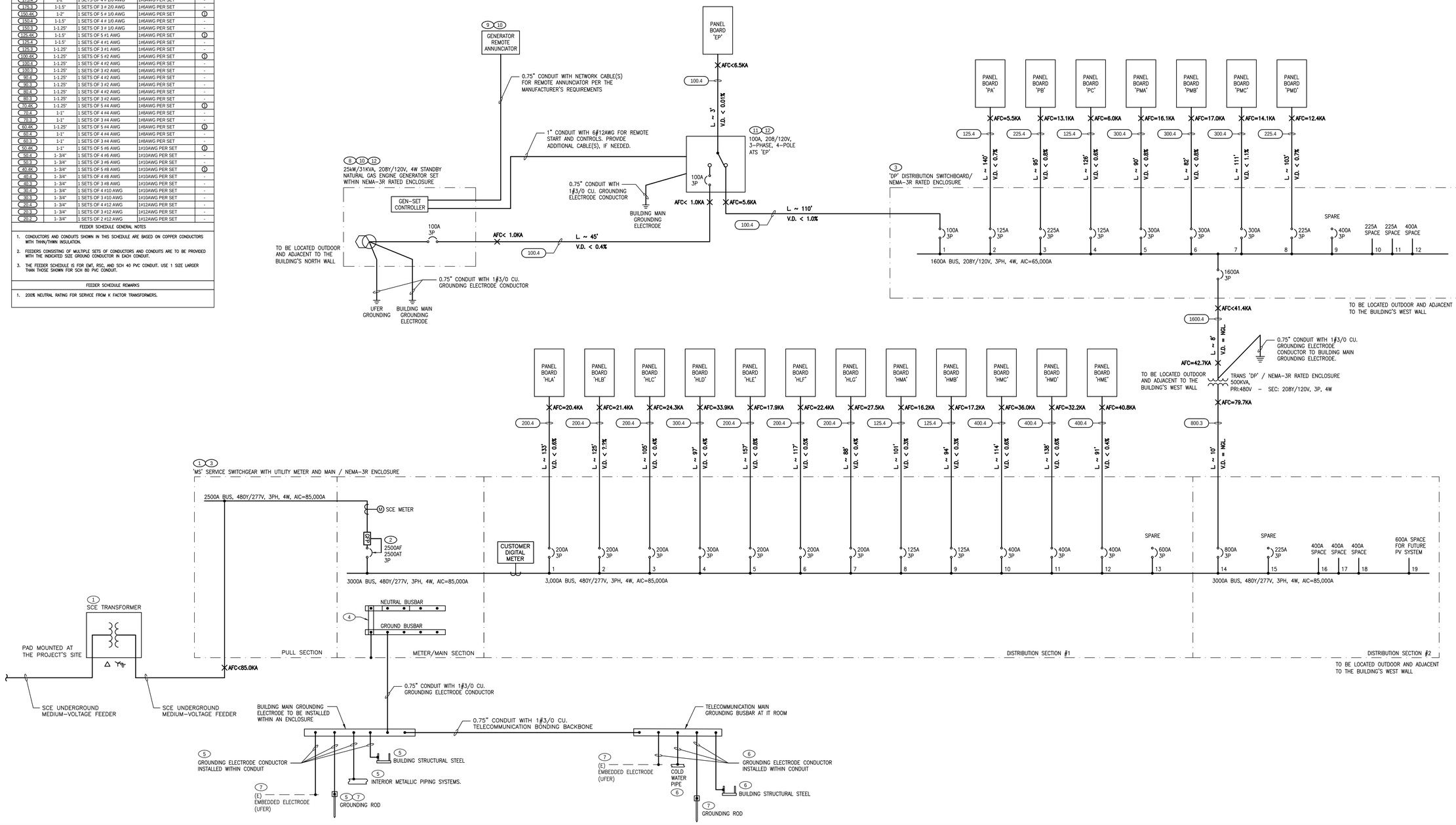
(8) 25KW/31KVA, 208Y/120V, 4W NATURAL GAS STATIONARY STANDBY GENERATOR-SET, MODEL C25-N6 MANUFACTURED BY CUMMINS POWER GENERATION FURNISHED WITH ON BOARD CONTROL PANEL MODEL "PowerCommand 1.1", OR EQUIVALENT, ALL INSTALLED WITHIN AN OUTDOOR RATED SOUND ATTENUATION ENCLOSURE LEVEL 2,

(9) REMOTE ANNUNCIATOR FOR THE OUTDOOR MOUNTED 25KWA NATURAL GAS STATIONARY STANDBY GENERATOR-SET. PROVIDE CONDUIT AND CABLE CONNECTIONS FROM THE ANNUNCIATOR TO THE GENERATOR-SET CONTROLLER, PER THE MANUFACTURER REQUIREMENTS. PROVIDE INSPECTION, PROGRAMING, SETTING, STARTUP, AND TESTING AS REQUIRED BY THE MANUFACTURER AND NFPA 110.

(10) CONTRACTOR SHALL PROVIDE THE GENERATOR SET AND REMOTE ANNOUNCIATOR PRODUCTS DATA SUBMITTAL AND INSTALLATION SHOP DRAWINGS TO THE ENGINEER AND PROJECT MANAGER WITH THEIR REVIEW AND APPROVAL, PRIOR TO INSTALLATION AND ORDERING EQUIPMENT.

(11) 100A, 208/120V, 3-PHASE, 4-POLE AUTOMATIC TRANSFORMER FURNISHED WITH CIRCUIT BREAKER ON THE STANDBY-SUPPLY FEEDER MANUFACTURED BY CUMMINS POWER GENERATION, OR ASCO POWER TECHNOLOGIES. PROVIDE CONDUIT AND WIRING CONNECTION TO GENERATOR CONTROLLER FOR THE GENERATOR-SET START AND OTHER SIGNALING, AS REQUIRED.

(12) AFTER INSTALLATION COMPLETED THE CONTRACTOR SHALL PERFORM ALL TESTS RECOMMENDED BY MANUFACTURER, INCLUDING ALL VISUAL INSPECTIONS, MECHANICAL INSPECTIONS, ANCHORAGE INSPECTIONS, GROUNDING INSPECTIONS, ELECTRICAL TESTING, MECHANICAL TESTING, AND START-UPS, AS SPECIFIED IN NETA ACCEPTANCE TESTING SPECIFICATION AND/OR AS REQUIRED BY THE MANUFACTURER. CONTRACTOR SHALL THEN SUBMIT THE INSPECTION REPORTS AND TEST RESULTS ALONG WITH THE SUPPORTING DOCUMENTS INDICATING THAT THE INSTALLED GENERATOR SET, REMOTE ANNUNCIATOR, AND AUTOMATIC TRANSFER SWITCH ARE IN COMPLIANCE WITH ALL THE TEST PARAMETERS AND MANUFACTURER REQUIREMENTS.




SINGLE LINE DIAGRAM

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5 UPPER NEWPORT PLAZA, SUITE 101,
NEWPORT BEACH, CA 92660
TEL: 949-771-SPEC (7732)

STAMP
REGISTERED PROFESSIONAL ENGINEER
No. 19332
Exp. 12/31/22
ELECTRICAL
STATE OF CALIFORNIA



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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET

SINGLE LINE DIAGRAM

04/15/2021 PLAN CHECK SUBMITTAL SET

E2-1

SINGLE LINE DIAGRAM | SCALE: NONE | 1

| CKT No. | C.B. AMP/P | SERVICE | LOAD KVA TOTAL | TYPE | A | B | C |
|---|---|---|---|---|---|---|---|
| 1 | 200/3 | PANELBOARD 'HLA' | 36.95 | M | 36.95 | | |
| | | | 36.95 | M | | 36.95 | |
| | | | 36.95 | M | | | 36.95 |
| 2 | 200/3 | PANELBOARD 'HLB' | 39.86 | M | 39.86 | | |
| | | | 39.86 | M | | 39.86 | |
| | | | 39.86 | M | | | 39.86 |
| 3 | 200/3 | PANELBOARD 'HLC' | 31.66 | M | 31.66 | | |
| | | | 31.66 | M | | 31.66 | |
| | | | 31.66 | M | | | 31.66 |
| 4 | 300/3 | PANELBOARD 'HLD' | 47.35 | M | 47.35 | | |
| | | | 47.35 | M | | 47.35 | |
| | | | 47.35 | M | | | 47.35 |
| 5 | 200/3 | PANELBOARD 'HLE' | 38.50 | M | 38.50 | | |
| | | | 38.50 | M | | 38.50 | |
| | | | 38.50 | M | | | 38.50 |
| 6 | 200/3 | PANELBOARD 'HLF' | 36.83 | M | 36.83 | | |
| | | | 36.83 | M | | 36.83 | |
| | | | 36.83 | M | | | 36.83 |
| 7 | 200/3 | PANELBOARD 'HLG' | 35.96 | M | 35.96 | | |
| | | | 35.96 | M | | 35.96 | |
| | | | 35.96 | M | | | 35.96 |
| 8 | 125/3 | PANELBOARD 'HMA' | 13.38 | M | 13.38 | | |
| | | | 13.38 | M | | 13.38 | |
| | | | 13.38 | M | | | 13.38 |
| 9 | 125/3 | PANELBOARD 'HMB' | 15.37 | M | 15.37 | | |
| | | | 15.37 | M | | 15.37 | |
| | | | 15.37 | M | | | 15.37 |
| 10 | 400/3 | PANELBOARD 'HMC' | 77.44 | M | 77.44 | | |
| | | | 77.44 | M | | 77.44 | |
| | | | 77.44 | M | | | 77.44 |
| 11 | 400/3 | PANELBOARD 'HMD' | 66.61 | M | 66.61 | | |
| | | | 66.61 | M | | 66.61 | |
| | | | 66.61 | M | | | 66.61 |
| 12 | 400/3 | PANELBOARD 'HME' | 76.45 | M | 76.45 | | |
| | | | 76.45 | M | | 76.45 | |
| | | | 76.45 | M | | | 76.45 |
| 13 | 600/3 | SPARE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 14 | 800/3 | TRANS. 'DP' (DISTRIBUTION SWITCHBOARD 'DP') | 106.44 | M | 106.44 | | |
| | | | 106.44 | M | | 106.44 | |
| | | | 106.44 | M | | | 106.44 |
| 15 | 225/3 | SPARE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 16 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 17 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 18 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 19 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 20 | | SPACE FOR FUTURE PV SYSTEM | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| | | CONNECTED LOAD PER PHASE | | | 622.81 | 622.81 | 622.81 |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 0.00 | 125% | 0.00 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | 0.00 | 100% | 0.00 |
| TYPE "R": RECEPTACLES (OVER 10KVA) | 0.00 | 50% | 0.00 |
| TYPE "M": MISCELLANEOUS LOADS | 1868.42 | 100% | 1868.42 |
| TYPE "A": AC LOADS | 0.00 | 100% | 0.00 |
| TYPE "K": KITCHEN LOADS | 0.00 | 65% | 0.00 |
| LARGEST MOTOR LOAD | | 25% | 0.00 |
| **TOTAL** | 1868.42 | | 1868.42 |

**PANEL PLACARD**

VOLTS: 480Y/277V, 3PH, 4W
MAIN C.B.: 2500 A
BUS: 3000 A
SPACE: 20
MOUNTING: SURFACE
AIC RATING: 85000 A

| DEMAND AMPS | HI LEG CONN. AMPS |
|---|---|
| 2247.35 | 2248.39 |

**PANEL NAME**

**MS**

**FED BY:**

**UTILITY (SCE)**

| CKT No. | C.B. AMP/P | SERVICE | LOAD KVA TOTAL | TYPE | A | B | C |
|---|---|---|---|---|---|---|---|
| 1 | 100/3 | PANELBOARD 'EP' | 2.67 | M | 2.67 | | |
| | | | 2.67 | M | | 2.67 | |
| | | | 2.67 | M | | | 2.67 |
| 2 | 125/3 | PANELBOARD 'PA' | 4.49 | M | 4.49 | | |
| | | | 4.49 | M | | 4.49 | |
| | | | 4.49 | M | | | 4.49 |
| 3 | 225/3 | PANELBOARD 'PB' | 15.83 | M | 15.83 | | |
| | | | 15.83 | M | | 15.83 | |
| | | | 15.83 | M | | | 15.83 |
| 4 | 125/3 | PANELBOARD 'PC' | 4.07 | M | 4.07 | | |
| | | | 4.07 | M | | 4.07 | |
| | | | 4.07 | M | | | 4.07 |
| 5 | 300/3 | PANELBOARD 'PMA' | 20.38 | M | 20.38 | | |
| | | | 20.38 | M | | 20.38 | |
| | | | 20.38 | M | | | 20.38 |
| 6 | 300/3 | PANELBOARD 'PMB' | 22.53 | M | 22.53 | | |
| | | | 22.53 | M | | 22.53 | |
| | | | 22.53 | M | | | 22.53 |
| 7 | 400/3 | PANELBOARD 'PMC' | 23.95 | M | 23.95 | | |
| | | | 23.95 | M | | 23.95 | |
| | | | 23.95 | M | | | 23.95 |
| 8 | 225/3 | PANELBOARD 'PMD' | 12.52 | M | 12.52 | | |
| | | | 12.52 | M | | 12.52 | |
| | | | 12.52 | M | | | 12.52 |
| 9 | 400/3 | SPARE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 10 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 11 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 12 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| 13 | | SPACE | | | 0.00 | | |
| | | | | | | 0.00 | |
| | | | | | | | 0.00 |
| | | CONNECTED LOAD PER PHASE | | | 106.44 | 106.44 | 106.44 |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 0.00 | 125% | 0.00 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | 0.00 | 100% | 0.00 |
| TYPE "R": RECEPTACLES (OVER 10KVA) | 0.00 | 50% | 0.00 |
| TYPE "M": MISCELLANEOUS LOADS | 319.33 | 100% | 319.33 |
| TYPE "A": AC LOADS | 0.00 | 100% | 0.00 |
| TYPE "K": KITCHEN LOADS | 0.00 | 65% | 0.00 |
| LARGEST MOTOR LOAD | | 25% | 0.00 |
| **TOTAL** | 319.33 | | 319.33 |

**PANEL PLACARD**

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: 1600 A
BUS: 1600 A
SPACE: 13
MOUNTING: SURFACE
AIC RATING: 65000 A

| DEMAND AMPS | HI LEG CONN. AMPS |
|---|---|
| 886.38 | 887.04 |

**PANEL NAME**

**DP**

**FED BY:**

**TRANS. 'DP' (SWITCHGEAR 'MS')**

| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | FANS - GROW ROOM 3 - 113 | 0.22 | L | 0.43 | | | L | 0.22 | FANS - GROW ROOM 2 - 112 | 20/1 | 2 |
| 3 | 20/1 | FANS - GROW ROOM 3 - 113 | 1.38 | L | | 2.76 | | L | 1.38 | FANS - GROW ROOM 2 - 112 | 20/1 | 4 |
| 5 | 20/1 | FANS - GROW ROOM 3 - 113 | 1.38 | L | | | 2.76 | L | 1.38 | FANS - GROW ROOM 2 - 112 | 20/1 | 6 |
| 7 | 20/1 | FANS - GROW ROOM 4 - 114 | 0.22 | L | 0.43 | | | L | 0.22 | FANS - GROW ROOM 1 - 111 | 20/1 | 8 |
| 9 | 20/1 | FANS - GROW ROOM 4 - 114 | 1.38 | L | | 2.76 | | L | 1.38 | FANS - GROW ROOM 1 - 111 | 20/1 | 10 |
| 11 | 20/1 | FANS - GROW ROOM 4 - 114 | 1.38 | L | | | 2.76 | L | 1.38 | FANS - GROW ROOM 1 - 111 | 20/1 | 12 |
| 13 | 70/2 | DH 876- GROW ROOM 3 - 113 | 2.75 | A | 5.50 | | | A | 2.75 | DH 876- GROW ROOM 2 - 112 | 70/2 | 14 |
| 15 | | | 2.75 | A | | 5.50 | | A | 2.75 | | | 16 |
| 17 | 70/2 | DH 876- GROW ROOM 3 - 113 | 2.75 | A | | | 5.50 | A | 2.75 | DH 876- GROW ROOM 2 - 112 | 70/2 | 18 |
| 19 | | | 2.75 | A | 5.50 | | | A | 2.75 | | | 20 |
| 21 | 70/2 | DH 876- GROW ROOM 4 - 114 | 2.75 | A | | 5.50 | | A | 2.75 | DH 876- GROW ROOM 1 - 111 | 70/2 | 22 |
| 23 | | | 2.75 | A | | | 5.50 | A | 2.75 | | | 24 |
| 25 | 70/2 | DH 876- GROW ROOM 4 - 114 | 2.75 | A | 5.50 | | | A | 2.75 | DH 876- GROW ROOM 1 - 111 | 70/2 | 26 |
| 27 | | | 2.75 | A | | 5.50 | | A | 2.75 | | | 28 |
| 29 | 70/2 | SPARE | | | | | | | | SPARE | 70/2 | 30 |
| 31 | | | | | | | | | | | | 32 |
| 33 | 15/2 | FC-1, FC4, FC-6, FC-7 | 0.54 | A | | 0.71 | | A | 0.17 | FC-5 & FC-1 | 15/2 | 34 |
| 35 | | | 0.54 | A | | | 0.71 | A | 0.17 | | | 36 |
| 37 | 20/1 | EF-5 - MANUFACTURING - 124 | 0.86 | A | 0.86 | | | | | | | 38 |
| 39 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 40 |
| 41 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 42 |
| | | CONNECTED LOAD PER PHASE | | | 18.22 | 22.73 | 17.23 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 11.90 | 125% | 14.88 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 46.28 | 100% | 46.28 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| **TOTAL** | 58.18 | | 61.15 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 400 A
POLES: 42
MOUNTING: SURFACE
AIC RATING: 18,000 A
PANEL NAME: **PMA**
FED BY: **DP**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 169.74 | 189.39 |

| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | FANS - GROW ROOM 6 - 116 | 0.22 | L | 0.43 | | | L | 0.22 | FANS - GROW ROOM 7 - 117 | 20/1 | 2 |
| 3 | 20/1 | FANS - GROW ROOM 6 - 116 | 1.38 | L | | 2.76 | | L | 1.38 | FANS - GROW ROOM 7 - 117 | 20/1 | 4 |
| 5 | 20/1 | FANS - GROW ROOM 6 - 116 | 1.38 | L | | | 2.76 | L | 1.38 | FANS - GROW ROOM 7 - 117 | 20/1 | 6 |
| 7 | 20/1 | FANS - GROW ROOM 5 - 115 | 0.22 | L | 0.43 | | | L | 0.22 | FANS - VEG ROOM 1 - 118 | 20/1 | 8 |
| 9 | 20/1 | FANS - GROW ROOM 5 - 115 | 1.38 | L | | 2.76 | | L | 1.38 | FANS - VEG ROOM 1 - 118 | 20/1 | 10 |
| 11 | 20/1 | FANS - GROW ROOM 5 - 115 | 1.38 | L | | | 2.76 | L | 1.38 | FANS - VEG ROOM 1 - 118 | 20/1 | 12 |
| 13 | 70/2 | DH 876- GROW ROOM 6 - 116 | 2.75 | A | 5.50 | | | A | 2.75 | DH 876- GROW ROOM 7 - 117 | 70/2 | 14 |
| 15 | | | 2.75 | A | | 5.50 | | A | 2.75 | | | 16 |
| 17 | 70/2 | DH 876- GROW ROOM 6 - 116 | 2.75 | A | | | 5.50 | A | 2.75 | DH 876- GROW ROOM 7 - 117 | 70/2 | 18 |
| 19 | | | 2.75 | A | 5.50 | | | A | 2.75 | | | 20 |
| 21 | 70/2 | DH 876- GROW ROOM 5 - 115 | 2.75 | A | | 5.50 | | A | 2.75 | DH 876- VEG ROOM 1 - 111 | 70/2 | 22 |
| 23 | | | 2.75 | A | | | 5.50 | A | 2.75 | | | 24 |
| 25 | 70/2 | DH 876- GROW ROOM 5 - 115 | 2.75 | A | 5.50 | | | A | 2.75 | DH 876- VEG ROOM 1 - 111 | 70/2 | 26 |
| 27 | | | 2.75 | A | | 5.50 | | A | 2.75 | | | 28 |
| 29 | 70/2 | SPARE | | | | | 2.75 | A | 2.75 | DH 876- VEG ROOM 1 - 111 | 70/2 | 30 |
| 31 | | | | | 2.75 | | | A | 2.75 | | | 32 |
| 33 | 20/1 | DH Santa Fe - TRIM ROOM - 109 | 0.70 | A | | 0.70 | | | | SPARE | 70/2 | 34 |
| 35 | 20/1 | DH Santa Fe - TRIM ROOM - 109 | 0.70 | A | | | 0.70 | | | | | 36 |
| 37 | 20/1 | DH Santa Fe - TRIM ROOM - 109 | 0.70 | A | 0.86 | | | A | 0.16 | EF-1 | 20/1 | 38 |
| 39 | 20/1 | DH Santa Fe - TRIM ROOM - 109 | 0.70 | A | | 0.82 | | A | 0.12 | FC-1 & FC-3 | 15/2 | 40 |
| 41 | | | | | | | 0.12 | A | 0.12 | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 20.97 | 23.54 | 20.09 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 11.90 | 125% | 14.88 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 52.71 | 100% | 52.71 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| **TOTAL** | 64.61 | | 67.58 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 400 A
POLES: 42
MOUNTING: SURFACE
AIC RATING: 25,000 A
PANEL NAME: **PMB**
FED BY: **DP**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 187.59 | 196.21 |

| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35/1 | EF-4 | 1.66 | A | 3.31 | | | A | 1.66 | EF-4 | 35/1 | 2 |
| 3 | 35/1 | EF-4 | 1.66 | A | | 3.31 | | A | 1.66 | EF-4 | 35/1 | 4 |
| 5 | 35/1 | EF-4 | 1.66 | A | | | 3.31 | A | 1.66 | EF-4 | 35/1 | 6 |
| 7 | 35/1 | EF-4 | 1.66 | A | 3.31 | | | A | 1.66 | EF-4 | 35/1 | 8 |
| 9 | 70/2 | DH 876- GROW ROOM 10 - 211 | 2.75 | A | | 4.10 | | A | 1.35 | DH 506 - TRIM ROOM - 206 | 20/2 | 10 |
| 11 | | | 2.75 | A | | | 4.10 | A | 1.35 | | | 12 |
| 13 | 70/2 | DH 876- GROW ROOM 10 - 211 | 2.75 | A | 5.50 | | | A | 2.75 | DH 876 - GROW ROOM 8 - 209 | 70/2 | 14 |
| 15 | | | 2.75 | A | | 5.50 | | A | 2.75 | | | 16 |
| 17 | 20/1 | FANS - GROW ROOM 10 - 211 | 0.22 | A | | | 2.97 | A | 2.75 | DH 876 - GROW ROOM 8 - 209 | 70/2 | 18 |
| 19 | 20/1 | FANS - GROW ROOM 10 - 211 | 1.38 | A | 4.13 | | | A | 2.75 | | | 20 |
| 21 | 20/1 | FANS - GROW ROOM 10 - 211 | 1.38 | A | | 1.60 | | A | 0.22 | FANS - GROW ROOM 8 - 209 | 20/1 | 22 |
| 23 | 70/2 | DH 876- GROW ROOM 11 - 212 | 2.75 | A | | | 4.13 | A | 1.38 | FANS - GROW ROOM 8 - 209 | 20/1 | 24 |
| 25 | | | 2.75 | A | 4.13 | | | A | 1.38 | FANS - GROW ROOM 8 - 209 | 20/1 | 26 |
| 27 | 70/2 | DH 876- GROW ROOM 11 - 212 | 2.75 | A | | 5.50 | | A | 2.75 | DH 876- GROW ROOM 9 - 210 | 70/2 | 28 |
| 29 | | | 2.75 | A | | | 5.50 | A | 2.75 | | | 30 |
| 31 | 20/1 | FANS - GROW ROOM 11 - 212 | 0.22 | A | 2.97 | | | A | 2.75 | DH 876- GROW ROOM 9 - 210 | 70/2 | 32 |
| 33 | 20/1 | FANS - GROW ROOM 11 - 212 | 1.38 | A | | 4.13 | | A | 2.75 | | | 34 |
| 35 | 20/1 | FANS - GROW ROOM 11 - 212 | 1.38 | A | | | 1.60 | A | 0.22 | FANS - GROW ROOM 9 - 210 | 20/1 | 36 |
| 37 | | | | | 1.38 | | | A | 1.38 | FANS - GROW ROOM 9 - 210 | 20/1 | 38 |
| 39 | | | | | | 1.38 | | A | 1.38 | FANS - GROW ROOM 9 - 210 | 20/1 | 40 |
| 41 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 42 |
| | | CONNECTED LOAD PER PHASE | | | 24.73 | 25.52 | 21.60 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 71.85 | 100% | 71.85 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| **TOTAL** | 71.85 | | 71.85 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 400 A
POLES: 42
MOUNTING: SURFACE
AIC RATING: 18,000 A
PANEL NAME: **PMC**
FED BY: **DP**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 199.43 | 212.64 |

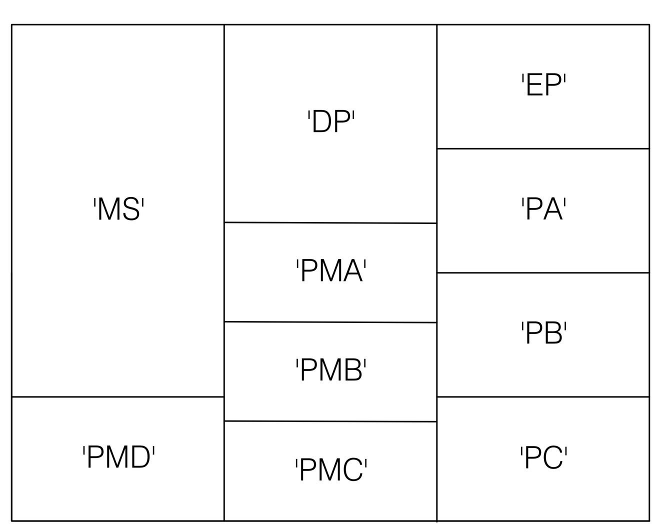
| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35/1 | EF-4 | 1.66 | A | 3.31 | | | A | 1.66 | EF-3 | 35/1 | 2 |
| 3 | 35/1 | EF-4 | 1.66 | A | | 1.82 | | A | 0.16 | EF-2 | 20/1 | 4 |
| 5 | 35/1 | EF-4 | 1.66 | A | | | 3.31 | A | 1.66 | EF-4 | 35/1 | 6 |
| 7 | | | | | 1.66 | | | A | 1.66 | EF-4 | 35/1 | 8 |
| 9 | 20/1 | FUTURE FANS - MOTHER RM. - 216 | 1.38 | A | | 1.38 | | | | SPARE | 20/1 | 10 |
| 11 | 15/2 | FC-1 | 0.12 | A | | | 2.87 | A | 2.75 | DH 876- VEG ROOM 2 - 213 | 70/2 | 12 |
| 13 | | | 0.12 | A | 2.87 | | | A | 2.75 | | | 14 |
| 15 | 15/2 | FC-2 - TRIM ROOM (206) | 0.08 | A | | 2.83 | | A | 2.75 | DH 876- VEG ROOM 2 - 213 | 70/2 | 16 |
| 17 | | | 0.08 | A | | | 2.83 | A | 2.75 | | | 18 |
| 19 | 20/1 | EF-1 - RESTROOM (204,205) | 0.11 | A | 2.86 | | | A | 2.75 | DH 876- VEG ROOM 2 - 213 | 70/2 | 20 |
| 21 | 15/2 | FC-5 - DRYING ROOM (207) | 0.12 | A | | 2.87 | | A | 2.75 | | | 22 |
| 23 | | | 0.12 | A | | | 1.50 | A | 1.38 | FANS - VEG ROOM 2 -213 | 20/1 | 24 |
| 25 | 15/2 | FC-5 - CLONE ROOM (215) | 0.04 | A | 1.42 | | | A | 1.38 | FANS - VEG ROOM 2 -213 | 20/1 | 26 |
| 27 | | | 0.04 | A | | 0.04 | | | | | | 28 |
| 29 | | | | | | | | | | | | 30 |
| 31 | | | | | 1.83 | | | A | 1.83 | W.I.C. CONDENSER | 25/3 | 32 |
| 33 | | | | | | 1.83 | | A | 1.83 | | | 34 |
| 35 | | | | | | | 1.83 | A | 1.83 | | | 36 |
| 37 | | | | | 0.50 | | | A | 0.50 | WALK IN COOLER | 20/1 | 38 |
| 39 | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 14.45 | 10.77 | 12.35 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 37.57 | 100% | 37.57 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| **TOTAL** | 37.57 | | 37.57 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 225 A
POLES: 42
MOUNTING: SURFACE
AIC RATING: 18,000 A
PANEL NAME: **PMD**
FED BY: **DP**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 104.28 | 120.38 |




| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | SPARE | | | 0.20 | | | M | 0.20 | CO2 CONTR./SENS. SYSTEM - 1ST FL. | 20/1 | 2 |
| 3 | 20/1 | SPARE | | | | 0.20 | | M | 0.20 | CO2 CONTR./SENS. SYSTEM - 2ND FL. | 20/1 | 4 |
| 5 | 20/1 | SPARE | | | | | 1.00 | M | 1.00 | GENERATOR-SET AUX. POWER | 20/1 | 6 |
| 7 | 20/1 | SPARE | | | 1.00 | | | M | 1.00 | | 20/1 | 8 |
| 9 | 20/1 | SPARE | | | | 0.20 | | M | 0.20 | GENERATOR-SET AUX. POWER | 20/1 | 10 |
| 11 | 20/1 | SPARE | | | | | 0.00 | | | SPARE | 20/1 | 12 |
| 13 | | | 1.80 | M | 1.80 | | | | | | 20/1 | 14 |
| 15 | 20/3 | EXTRACTION BOOTH CONTROL PANEL | 1.80 | M | | 1.80 | | | | | 20/1 | 16 |
| 17 | | | 1.80 | M | | | 1.80 | | | | 20/1 | 18 |
| 19 | 20/1 | | | | 0.00 | | | | | | 20/1 | 20 |
| 21 | 20/1 | | | | | 0.00 | | | | | 20/1 | 22 |
| 23 | 20/1 | | | | | | 0.00 | | | | 20/1 | 24 |
| 25 | 20/1 | | | | 0.00 | | | | | | 20/1 | 26 |
| 27 | 20/1 | | | | | 0.00 | | | | | 20/1 | 28 |
| 29 | 20/1 | | | | | | 0.00 | | | | 20/1 | 30 |
| 31 | 20/1 | | | | 0.00 | | | | | | 20/1 | 32 |
| 33 | 20/1 | | | | | 0.00 | | | | | 20/1 | 34 |
| 35 | 20/1 | | | | | | 0.00 | | | | 20/1 | 36 |
| 37 | | SPACE | | | 0.00 | | | | | SPACE | 20/1 | 38 |
| 39 | | SPACE | | | | 0.00 | | | | SPACE | 20/1 | 40 |
| 41 | | SPACE | | | | | 0.00 | | | SPACE | 20/1 | 42 |
| | | CONNECTED LOAD PER PHASE | | | 3.00 | 2.20 | 2.80 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 0.00 | 125% | 0.00 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | 0.00 | 100% | 0.00 |
| RECEPTACLES (OVER 10KVA) | 0.00 | 50% | 0.00 |
| TYPE "M": MISCELLANEOUS LOADS | 8.00 | 100% | 8.00 |
| TYPE "A": AC LOADS | 0.00 | 100% | 0.00 |
| TYPE "K": KITCHEN LOADS | 0.00 | 65% | 0.00 |
| LARGEST MOTOR LOAD | | 25% | 0.00 |
| **TOTAL** | 8.00 | | 8.00 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 125 A
POLES: 42
MOUNTING: SURFACE
AIC RATING: 10,000 A
PANEL NAME: **EP**
FED BY: **ATS**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 22.22 | 25.01 |

| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEP.- LOBBY - 100 | 0.36 | R | 0.72 | | | R | 0.36 | RECEP.- GROW ROOM 1 - 111 | 20/1 | 2 |
| 3 | | | 0.35 | M | | 0.71 | | R | 0.36 | RECEP.- GROW ROOM 1 - 111 | 20/1 | 4 |
| 5 | 20/3 | RECEP.- CT-400 SYSTEM - 108 | 0.35 | M | | | 0.71 | R | 0.36 | RECEP.- GROW ROOM 1 - 111 | 20/1 | 6 |
| 7 | | | 0.35 | M | 0.71 | | | R | 0.36 | RECEP.- GROW ROOM 2 -112 | 20/1 | 8 |
| 9 | 20/1 | RECEP. - DEDICATED FOR GAS WH-1 | 0.18 | M | | 0.54 | | R | 0.36 | RECEP.- GROW ROOM 2 -112 | 20/1 | 10 |
| 11 | 20/1 | SPARE | | | | | 0.36 | R | 0.36 | RECEP.- GROW ROOM 2 -112 | 20/1 | 12 |
| 13 | 20/1 | SPARE | | | 0.54 | | | R | 0.54 | RECEP.- RESTROOM - 106,107 | 20/1 | 14 |
| 15 | 20/1 | SPARE | | | | 0.72 | | R | 0.72 | RECEP.- IT ROOM - 102 | 20/1 | 16 |
| 17 | 20/1 | SPARE | | | | | 0.36 | R | 0.36 | RECEP.- IT ROOM - 102 | 20/1 | 18 |
| 19 | | | | | 0.36 | | | R | 0.36 | RECEP.- IT ROOM - 102 | 20/1 | 20 |
| 21 | | | | | | 1.50 | | K | 1.50 | MICROWAVE OVEN - BREAKROOM - 104 | 20/1 | 22 |
| 23 | | | | | | | 0.50 | K | 0.50 | REFRIGERATOR- BREAKROOM - 104 | 20/1 | 24 |
| 25 | | | | | 1.10 | | | K | 1.10 | GARBAGE DISP. - BREAKROOM - 104 | 20/1 | 26 |
| 27 | | | | | | 0.36 | | R | 0.36 | RECEP.- BREAKROOM - 104 | 20/1 | 28 |
| 29 | | | | | | | 0.54 | R | 0.54 | RECEP.- BREAKROOM - 104 | 20/1 | 30 |
| 31 | | | | | 1.20 | | | R | 1.20 | GAS DRYER- BREAKROOM - 104 | 20/1 | 32 |
| 33 | | | | | | 1.50 | | R | 1.50 | WASHER.- BREAKROOM - 104 | 20/1 | 34 |
| 35 | | | | | | | 0.54 | R | 0.54 | RECEP.- TANK ROOM - 108 | 20/1 | 36 |
| 37 | | SPACE | | | 0.54 | | | R | 0.54 | RECEP.- DRY/TRIM ROOM - 109 | 20/1 | 38 |
| 39 | | SPACE | | | | 0.36 | | R | 0.36 | RECEP.- DRY/TRIM ROOM - 109 | 20/1 | 40 |
| 41 | | SPACE | | | | | 0.90 | R | 0.90 | RECEP.- SECURITY OFFICE - 101 | 20/1 | 42 |
| | | CONNECTED LOAD PER PHASE | | | 5.17 | 5.69 | 3.91 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | 10.00 | 100% | 10.00 |
| RECEPTACLES (OVER 10KVA) | 0.44 | 50% | 0.22 |
| TYPE "M": MISCELLANEOUS LOADS | 1.24 | 100% | 1.24 |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | 3.10 | 65% | 2.02 |
| LARGEST MOTOR LOAD | | 25% | |
| **TOTAL** | 14.78 | | 13.48 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 125 A
POLES: 42
MOUNTING: SURFACE
AIC RATING: 18,000 A
PANEL NAME: **PA**
FED BY: **DP**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 37.41 | 47.45 |

| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEP.- GROW ROOM 7 - 117 | 0.36 | R | 0.72 | | | R | 0.36 | RECEP.- GROW ROOM 4 - 114 | 20/1 | 2 |
| 3 | 20/1 | RECEP.- GROW ROOM 7 - 117 | 0.36 | R | | 0.72 | | R | 0.36 | RECEP.- GROW ROOM 4 - 114 | 20/1 | 4 |
| 5 | 20/1 | RECEP.- GROW ROOM 7 - 117 | 0.36 | R | | | 0.72 | R | 0.36 | RECEP.- GROW ROOM 4 - 114 | 20/1 | 6 |
| 7 | 20/1 | RECEP.- VEG ROOM 1 - 118 | 0.36 | R | 0.72 | | | R | 0.36 | RECEP.- GROW ROOM 3 - 113 | 20/1 | 8 |
| 9 | 20/1 | RECEP.- VEG ROOM 1 - 118 | 0.36 | R | | 0.72 | | R | 0.36 | RECEP.- GROW ROOM 3 - 113 | 20/1 | 10 |
| 11 | 20/1 | RECEP.- VEG ROOM 1 - 118 | 0.54 | R | | | 0.90 | R | 0.36 | RECEP.- GROW ROOM 3 - 113 | 20/1 | 12 |
| 13 | 20/1 | RECEP.- HALLWAY - 110 | 0.54 | R | 0.72 | | | R | 0.18 | RECEP.- HALLWAY | 20/1 | 14 |
| 15 | 20/1 | RECEP.- SHIPPING AREA - 121 | 0.18 | R | | 0.36 | | R | 0.18 | RECEP.- HALLWAY | 20/1 | 16 |
| 17 | 20/1 | RECEP.- SHIPPING AREA - 121 | 0.18 | R | | | 0.18 | | | SPARE | 20/1 | 18 |
| 19 | 20/1 | RECEP.- DISTRIBUTION - 122 | 0.54 | R | 0.54 | | | | | SPARE | 20/1 | 20 |
| 21 | 20/1 | RECEP.- HALLWAY | 0.18 | R | | 0.18 | | | | SPARE | 20/1 | 22 |
| 23 | 20/1 | RECEP.- MANUFACTURING - 124 | 0.36 | R | | | 0.36 | | | SPARE | 20/1 | 24 |
| 25 | 20/1 | RECEP.- MANUFACTURING - 124 | 0.18 | R | 1.48 | | | M | 1.30 | ROLL-UP DOOR - SHIP./REC. - 121 | 20/1 | 26 |
| 27 | 20/1 | RECEP.- EQUIPMENT ROOM - 126 | 0.18 | R | | 1.48 | | M | 1.30 | ROLL-UP DOOR - SHIP./REC. - 121 | 20/1 | 28 |
| 29 | 20/1 | RECEP.- CVO5 - 124 | 1.00 | M | 2.30 | | | M | 1.30 | ROLL-UP DOOR - SHIP./REC. - 121 | 20/1 | 30 |
| 31 | 20/1 | RECEP.- CVO5 - 124 | 1.00 | M | | 4.12 | | M | 3.12 | PROVISION - FUTURE LEVEL-2 EV | 40/2 | 32 |
| 33 | 20/1 | RECEP.- CVO5 - 124 | 1.00 | M | | | 4.12 | M | 3.12 | | | 34 |
| 35 | 20/1 | RECEP.- VAULT | 0.36 | R | 3.48 | | | M | 3.12 | PROVISION - FUTURE LEVEL-2 EV | 40/2 | 36 |
| 37 | 20/1 | RECEP.- CRYO-85 - 124 | 0.60 | M | | 3.72 | | M | 3.12 | | | 38 |
| 39 | 20/1 | RECEP.- CRYO-85 - 124 | 0.60 | M | | | 3.72 | M | 3.12 | PROVISION - FUTURE LEVEL-2 EV | 40/2 | 40 |
| 41 | 25/2 | RECEP.- GC5000 - 124 | 1.14 | M | | | 4.26 | M | 3.12 | | | 42 |
| 43 | | | 1.14 | M | 3.71 | | | M | 2.57 | RECEP.- HUBER CS100 - 124 | 35/3 | 44 |
| 45 | 20/2 | RECEP.- JULABO A80 - 124 | 1.56 | M | | 4.13 | | M | 2.57 | | | 46 |
| 47 | | | 1.56 | M | | | 4.13 | M | 2.57 | | | 48 |
| 49 | | | | | | | | | | | | 50 |
| 51 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 52 |
| 53 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 54 |
| | | CONNECTED LOAD PER PHASE | | | 13.67 | 15.43 | 18.39 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | 7.56 | 100% | 7.56 |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | 39.93 | 100% | 39.93 |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| **TOTAL** | 47.49 | | 47.49 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 225 A
POLES: 54
MOUNTING: SURFACE
AIC RATING: 18,000 A
PANEL NAME: **PB**
FED BY: **DP**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 131.81 | 153.26 |

| CKT No. | C.B. AMP/P | SERVICE | TOTAL | TYPE | A | B | C | TYPE | TOTAL | SERVICE | C.B. AMP/P | CKT No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEP.- VEG ROOM 2 - 213 | 0.36 | R | 0.72 | | | R | 0.36 | RECEP.- RESTROOM - 204,205 | 20/1 | 2 |
| 3 | 20/1 | RECEP.- VEG ROOM 2 - 213 | 0.36 | R | | 0.72 | | R | 0.36 | RECEP.- HALLWAY - 200, 203 | 20/1 | 4 |
| 5 | 20/1 | RECEP.- VEG ROOM 2 - 213 | 0.36 | R | | | 0.90 | R | 0.54 | RECEP.- OFFICE - 202 | 20/1 | 6 |
| 7 | 20/1 | RECEP.- CLONE ROOM - 215 | 0.54 | R | 0.90 | | | R | 0.36 | RECEP.- OFFICE - 202 | 20/1 | 8 |
| 9 | 20/1 | RECEP.- CLONE ROOM - 215 | 0.36 | R | | 0.91 | | R | 0.55 | RECEP.- OFFICE - 201 | 20/1 | 10 |
| 11 | 20/1 | RECEP.- MOTHER ROOM - 216 | 0.72 | R | | | 1.27 | R | 0.55 | RECEP.- OFFICE - 201 | 20/1 | 12 |
| 13 | 20/1 | RECEP.- HALLWAY | 0.18 | R | 0.72 | | | R | 0.54 | RECEP.- TRIM ROOM - 206 | 20/1 | 14 |
| 15 | 20/1 | RECEP.- GROW ROOM 11 - 212 | 0.36 | R | | 0.72 | | R | 0.36 | RECEP.- TRIM ROOM - 206 | 20/1 | 16 |
| 17 | 20/1 | RECEP.- GROW ROOM 11 - 212 | 0.36 | R | | | 0.90 | R | 0.54 | RECEP.- DRYING ROOM -207 | 20/1 | 18 |
| 19 | 20/1 | RECEP.- GROW ROOM 11 - 212 | 0.36 | R | 0.72 | | | R | 0.36 | RECEP.- DRYING ROOM -207 | 20/1 | 20 |
| 21 | 20/1 | RECEP.- GROW ROOM 10 - 211 | 0.36 | R | | 0.72 | | R | 0.36 | RECEP.- GROW ROOM 8 - 209 | 20/1 | 22 |
| 23 | 20/1 | RECEP.- GROW ROOM 10 - 211 | 0.36 | R | | | 0.72 | R | 0.36 | RECEP.- GROW ROOM 8 - 209 | 20/1 | 24 |
| 25 | 20/1 | RECEP.- GROW ROOM 10 - 211 | 0.36 | R | 0.72 | | | R | 0.36 | RECEP.- GROW ROOM 8 - 209 | 20/1 | 26 |
| 27 | 20/1 | RECEP.- HALLWAY - 208 | 0.54 | R | | 0.90 | | R | 0.36 | RECEP.- GROW ROOM 9 - 210 | 20/1 | 28 |
| 29 | 20/1 | RECEP.- HALLWAY | 0.18 | R | | | 0.54 | R | 0.36 | RECEP.- GROW ROOM 9 - 210 | 20/1 | 30 |
| 31 | 20/1 | RECEP.- ROOF | 0.36 | R | 0.72 | | | R | 0.36 | RECEP.- GROW ROOM 9 - 210 | 20/1 | 32 |
| 33 | 20/1 | RECEP.- ROOF | 0.36 | R | | 0.72 | | R | 0.36 | RECEP.- ROOF | 20/1 | 34 |
| 35 | 20/1 | RECEP.- ROOF | 0.36 | R | | | 0.54 | R | 0.18 | RECEP.- ROOF | 20/1 | 36 |
| 37 | 20/1 | SPARE | | | 0.36 | | | R | 0.36 | RECEP.- ROOF | 20/1 | 38 |
| 39 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 40 |
| 41 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 42 |
| | | CONNECTED LOAD PER PHASE | | | 4.86 | 4.69 | 4.87 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | 10.00 | 100% | 10.00 |
| RECEPTACLES (OVER 10KVA) | 4.43 | 50% | 2.21 |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| **TOTAL** | 14.43 | | 12.21 |

(PANEL PLACARD)

VOLTS: 208Y/120V, 3PH, 4W
MAIN C.B.: M.L.O.
BUS: 125 A
POLES: 42
MOUNTING: SURFACE
AIC RATING: 18,000 A
PANEL NAME: **PC**
FED BY: **DP**

| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS |
|---|---|
| 33.90 | 40.62 |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Exp. 12/31/22
ELECTRICAL
STATE OF CALIFORNIA


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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

## PANEL SCHEDULES AND LOAD CALCULATIONS

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTLA SET |

PA / PM:
DRAWN BY:
JOB NO.: XXXX

SHEET
**E3-1**

04/15/2021 PLAN CHECK SUBMITTAL SET

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | 20/1 | LTG.- TRIM, FERTIGATION - 108, 109 | 0.45 | L | 0.66 | | | L | 0.21 | LTG.- HALLWAY | 20/1 | 2 |
| 3 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 4 |
| 5 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 6 |
| 7 | | | | | | | | | | | | 8 |
| 9 | 20/3 | SPARE | | | | | | | | SPARE | 20/3 | 10 |
| 11 | | | | | | | | | | | | 12 |
| 13 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 14 |
| 15 | 20/3 | GROW LIGHTS - GROW ROOM 1 (111) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 2 (112) | 20/3 | 16 |
| 17 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 18 |
| 19 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 20 |
| 21 | 20/3 | GROW LIGHTS - GROW ROOM 1 (111) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 2 (112) | 20/3 | 22 |
| 23 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 24 |
| 25 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 26 |
| 27 | 20/3 | GROW LIGHTS - GROW ROOM 1 (111) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 2 (112) | 20/3 | 28 |
| 29 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 30 |
| 31 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 32 |
| 33 | 20/3 | GROW LIGHTS - GROW ROOM 1 (111) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 2 (112) | 20/3 | 34 |
| 35 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 36 |
| 37 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 38 |
| 39 | 20/2 | GROW LIGHTS - GROW ROOM 1 (111) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 2 (112) | 20/2 | 40 |
| 41 | 20/1 | GENERAL LTG. - GROW ROOM 1 (111) | 0.12 | L | | | 0.24 | L | 0.12 | GENERAL LTG. - GROW ROOM 2 (112) | 20/1 | 42 |
| | | CONNECTED LOAD PER PHASE | | | 32.01 | 31.35 | 25.32 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 88.68 | 125% | 110.86 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| TOTAL | 88.68 | | 110.86 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HLA |
| MAIN C.B.: | MLO | |
| BUS: | 225 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 133.34 | 115.57 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | 20/1 | LTG.- 100-104,106,107 | 0.34 | L | 1.24 | | | L | 0.90 | (E ) EXTERIOR LIGHTING FIXTURES | 20/1 | 2 |
| 3 | 20/1 | SPARE | | | | 0.14 | | L | 0.14 | EXTERIOR LIGHTING FIXTURES | 20/1 | 4 |
| 5 | 20/1 | GENERAL LTG.- GROW ROOM 5 (115) | 0.12 | L | | | 0.24 | L | 0.12 | GENERAL LTG.- GROW ROOM 6 (116) | 20/1 | 6 |
| 7 | | | | | | | | | | | | 8 |
| 9 | 20/3 | SPARE | | | | | | | | SPARE | 20/3 | 10 |
| 11 | | | | | | | | | | | | 12 |
| 13 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 14 |
| 15 | 20/3 | GROW LIGHTS - GROW ROOM 5 (115) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 6 (116) | 20/3 | 16 |
| 17 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 18 |
| 19 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 20 |
| 21 | 20/3 | GROW LIGHTS - GROW ROOM 5 (115) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 6 (116) | 20/3 | 22 |
| 23 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 24 |
| 25 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 26 |
| 27 | 20/3 | GROW LIGHTS - GROW ROOM 5 (115) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 6 (116) | 20/3 | 28 |
| 29 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 30 |
| 31 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 32 |
| 33 | 20/3 | GROW LIGHTS - GROW ROOM 5 (115) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 6 (116) | 20/3 | 34 |
| 35 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 36 |
| 37 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 38 |
| 39 | 20/3 | GROW LIGHTS - GROW ROOM 5 (115) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 6 (116) | 20/3 | 40 |
| 41 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 32.59 | 31.49 | 31.59 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 95.67 | 125% | 119.58 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| TOTAL | 95.67 | | 119.58 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HLB |
| MAIN C.B.: | MLO | |
| BUS: | 225 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 143.84 | 117.65 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | 20/1 | LTG.- 121-126 | 0.88 | L | 0.88 | | | | | SPARE | 20/1 | 2 |
| 3 | | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | | 6 |
| 7 | 20/1 | GENERAL LTG.- GROW ROOM 3 (113) | 0.12 | L | 0.24 | | | L | 0.12 | GENERAL LTG.- GROW ROOM 4 (114) | 20/1 | 8 |
| 9 | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | 12 |
| 13 | 20/2 | GROW LIGHTS - GROW ROOM 3 (113) | 3.14 | L | 3.14 | | | | | | | 14 |
| 15 | | | 3.14 | L | | 3.14 | | | | SPARE | 20/3 | 16 |
| 17 | | | | | | | | | | | | 18 |
| 19 | | | 3.14 | L | 5.72 | | | L | 2.58 | | | 20 |
| 21 | 20/3 | GROW LIGHTS - GROW ROOM 3 (113) | 3.14 | L | | 6.36 | | L | 3.23 | GROW LIGHTS - GROW ROOM 4 (114) | 20/3 | 22 |
| 23 | | | 3.14 | L | | | 6.36 | L | 3.23 | | | 24 |
| 25 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 26 |
| 27 | 20/3 | GROW LIGHTS - GROW ROOM 3 (113) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 4 (114) | 20/3 | 28 |
| 29 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 30 |
| 31 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 32 |
| 33 | 20/3 | GROW LIGHTS - GROW ROOM 3 (113) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 4 (114) | 20/3 | 34 |
| 35 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 36 |
| 37 | | | 3.14 | L | 6.27 | | | L | 3.14 | GROW LIGHTS - GROW ROOM 4 (114) | 20/1 | 38 |
| 39 | 20/3 | GROW LIGHTS - GROW ROOM 3 (113) | 3.14 | L | | 3.14 | | | | | | 40 |
| 41 | | | 3.14 | L | | | 3.14 | | | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 28.78 | 25.17 | 22.04 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 75.98 | 125% | 94.98 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| TOTAL | 75.98 | | 94.98 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HLC |
| MAIN C.B.: | MLO | |
| BUS: | 225 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 114.24 | 103.88 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | 20/1 | LTG.- HALLWAY - 110 | 0.53 | L | 3.67 | | | L | 3.14 | | | 2 |
| 3 | 20/1 | GENERAL LTG.- VEG ROOM 7 (118) | 0.12 | L | | 3.26 | | L | 3.14 | GROW LIGHTS - VEG ROOM 1 (118) | 20/3 | 4 |
| 5 | 20/1 | GENERAL LTG.- GROW ROOM 7 (117) | 0.12 | L | | | 3.26 | L | 3.14 | | | 6 |
| 7 | | | | | 3.14 | | | L | 3.14 | | | 8 |
| 9 | 20/3 | SPARE | | | | 3.14 | | L | 3.14 | GROW LIGHTS - VEG ROOM 1 (118) | 20/3 | 10 |
| 11 | | | | | | | 3.14 | L | 3.14 | | | 12 |
| 13 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 14 |
| 15 | 20/3 | GROW LIGHTS - GROW ROOM 7 (117) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - VEG ROOM 1 (118) | 20/3 | 16 |
| 17 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 18 |
| 19 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 20 |
| 21 | 20/3 | GROW LIGHTS - GROW ROOM 7 (117) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - VEG ROOM 1 (118) | 20/3 | 22 |
| 23 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 24 |
| 25 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 26 |
| 27 | 20/3 | GROW LIGHTS - GROW ROOM 7 (117) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - VEG ROOM 1 (118) | 20/3 | 28 |
| 29 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 30 |
| 31 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 32 |
| 33 | 20/3 | GROW LIGHTS - GROW ROOM 7 (117) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - VEG ROOM 1 (118) | 20/3 | 34 |
| 35 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 36 |
| 37 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 38 |
| 39 | 20/3 | GROW LIGHTS - GROW ROOM 7 (117) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - VEG ROOM 1 (118) | 20/3 | 40 |
| 41 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 38.15 | 37.74 | 37.74 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 113.63 | 125% | 142.04 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| TOTAL | 113.63 | | 142.04 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HLD |
| MAIN C.B.: | MLO | |
| BUS: | 400 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 170.85 | 137.74 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | 20/1 | LTG.- 200-205 | 0.63 | L | 1.37 | | | L | 0.74 | LTG.- DRYING, TRIM - 206,207 | 20/1 | 2 |
| 3 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 4 |
| 5 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 6 |
| 7 | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | 10 |
| 11 | 20/1 | GENERAL LTG.- GROW ROOM 9 (210) | 3.14 | L | | | 3.26 | L | 0.12 | GENERAL LTG.- GROW ROOM 8 (209) | 20/1 | 12 |
| 13 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 14 |
| 15 | 20/3 | GROW LIGHTS - GROW ROOM 9 (210) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 8 (209) | 20/3 | 16 |
| 17 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 18 |
| 19 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 20 |
| 21 | 20/3 | GROW LIGHTS - GROW ROOM 9 (210) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 8 (209) | 20/3 | 22 |
| 23 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 24 |
| 25 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 26 |
| 27 | 20/3 | GROW LIGHTS - GROW ROOM 9 (210) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 8 (209) | 20/3 | 28 |
| 29 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 30 |
| 31 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 32 |
| 33 | 20/3 | GROW LIGHTS - GROW ROOM 9 (210) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 8 (209) | 20/3 | 34 |
| 35 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 36 |
| 37 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 38 |
| 39 | 20/2 | GROW LIGHTS - GROW ROOM 9 (210) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 8 (209) | 20/2 | 40 |
| 41 | | | | | | | | | | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 32.72 | 31.35 | 28.34 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 92.41 | 125% | 115.51 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| TOTAL | 92.41 | | 115.51 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HLE |
| MAIN C.B.: | MLO | |
| BUS: | 225 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 138.93 | 118.13 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | 20/1 | LTG.- HALLWAY - 208 | 0.37 | L | 0.37 | | | | | SPARE | 20/1 | 2 |
| 3 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 4 |
| 5 | 20/1 | SPARE | | | | | | | | SPARE | 20/1 | 6 |
| 7 | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | 10 |
| 11 | 20/1 | GENERAL LTG.- GROW ROOM 11 (212) | 0.12 | L | | | 0.24 | L | 0.12 | GENERAL LTG.- GROW ROOM 10 (211) | 20/1 | 12 |
| 13 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 14 |
| 15 | 20/3 | GROW LIGHTS - GROW ROOM 11 (212) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 10 (211) | 20/3 | 16 |
| 17 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 18 |
| 19 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 20 |
| 21 | 20/3 | GROW LIGHTS - GROW ROOM 11 (212) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 10 (211) | 20/3 | 22 |
| 23 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 24 |
| 25 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 26 |
| 27 | 20/3 | GROW LIGHTS - GROW ROOM 11 (212) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 10 (211) | 20/3 | 28 |
| 29 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 30 |
| 31 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 32 |
| 33 | 20/3 | GROW LIGHTS - GROW ROOM 11 (212) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 10 (211) | 20/3 | 34 |
| 35 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 36 |
| 37 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 38 |
| 39 | 20/2 | GROW LIGHTS - GROW ROOM 11 (212) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - GROW ROOM 10 (211) | 20/2 | 40 |
| 41 | | | | | | | | | | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 31.72 | 31.35 | 25.32 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 88.39 | 125% | 110.49 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| TOTAL | 88.39 | | 110.49 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HLF |
| MAIN C.B.: | MLO | |
| BUS: | 225 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 132.89 | 114.51 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | 20/1 | GENERAL LTG.- VEG ROOM 2 (213) | 0.12 | L | 3.26 | | | L | 3.14 | | | 2 |
| 3 | 20/1 | GENERAL LTG.- CLONE ROOM (215) | 0.04 | L | | 3.18 | | L | 3.14 | GROW LIGHTS - VEG ROOM 2 (213) | 20/3 | 4 |
| 5 | 20/1 | GENERAL LTG.- MOTHER ROOM (216) | 0.08 | L | | | 3.22 | L | 3.14 | | | 6 |
| 7 | 20/1 | LTG.- HALLWAY | 0.16 | L | 3.30 | | | L | 3.14 | | | 8 |
| 9 | 20/1 | SPARE | | | | 3.14 | | L | 3.14 | GROW LIGHTS - VEG ROOM 2 (213) | 20/3 | 10 |
| 11 | 20/1 | SPARE | | | | | 3.14 | L | 3.14 | | | 12 |
| 13 | | | | | 3.14 | | | L | 3.14 | | | 14 |
| 15 | 20/3 | SPARE | | | | 3.14 | | L | 3.14 | GROW LIGHTS - VEG ROOM 2 (213) | 20/3 | 16 |
| 17 | | | | | | | 3.14 | L | 3.14 | | | 18 |
| 19 | | | | | 3.14 | | | L | 3.14 | | | 20 |
| 21 | 20/3 | SPARE | | | | 3.14 | | L | 3.14 | GROW LIGHTS - VEG ROOM 2 (213) | 20/3 | 22 |
| 23 | | | | | | | 3.14 | L | 3.14 | | | 24 |
| 25 | | | 0.07 | L | 3.21 | | | L | 3.14 | | | 26 |
| 27 | 20/3 | GROW LIGHTS - CLONE ROOM (215) | 0.07 | L | | 3.21 | | L | 3.14 | GROW LIGHTS - VEG ROOM 2 (213) | 20/3 | 28 |
| 29 | | | 0.07 | L | | | 3.21 | L | 3.14 | | | 30 |
| 31 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 32 |
| 33 | 20/3 | GROW LIGHTS - MOTHER ROOM (216) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - VEG ROOM 2 (213) | 20/3 | 34 |
| 35 | | | 3.14 | L | | | 6.27 | L | 3.14 | | | 36 |
| 37 | | | 3.14 | L | 6.27 | | | L | 3.14 | | | 38 |
| 39 | 20/3 | GROW LIGHTS - MOTHER ROOM (216) | 3.14 | L | | 6.27 | | L | 3.14 | GROW LIGHTS - VEG ROOM 2 (213) | 20/3 | 40 |
| 41 | | | 3.14 | L | | | 7.32 | L | 4.18 | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 28.57 | 28.33 | 29.41 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | 86.31 | 125% | 107.89 |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | | 100% | |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | | 25% | |
| TOTAL | 86.31 | | 107.89 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HLG |
| MAIN C.B.: | MLO | |
| BUS: | 225 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 129.77 | 106.18 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | | | 1.14 | A | 2.28 | | | A | 1.14 | | | 2 |
| 3 | 15/3 | AHU-1 - GROW ROOM 3 (113) | 1.14 | A | | 2.28 | | A | 1.14 | AHU-1 - GROW ROOM 2 (112) | 15/3 | 4 |
| 5 | | | 1.14 | A | | | 2.28 | A | 1.14 | | | 6 |
| 7 | | | 1.14 | A | 2.28 | | | A | 1.14 | | | 8 |
| 9 | 15/3 | AHU-1 - GROW ROOM 3 (113) | 1.14 | A | | 2.28 | | A | 1.14 | AHU-1 - GROW ROOM 2 (112) | 15/3 | 10 |
| 11 | | | 1.14 | A | | | 2.28 | A | 1.14 | | | 12 |
| 13 | | | 1.14 | A | 2.28 | | | A | 1.14 | | | 14 |
| 15 | 15/3 | AHU-1 - GROW ROOM 3 (113) | 1.14 | A | | 2.28 | | A | 1.14 | AHU-1 - GROW ROOM 2 (112) | 15/3 | 16 |
| 17 | | | 1.14 | A | | | 2.28 | A | 1.14 | | | 18 |
| 19 | | | 1.14 | A | 2.28 | | | A | 1.14 | | | 20 |
| 21 | 15/3 | AHU-1 - GROW ROOM 4 (114) | 1.14 | A | | 2.28 | | A | 1.14 | AHU-1 - GROW ROOM 1 (111) | 15/3 | 22 |
| 23 | | | 1.14 | A | | | 2.28 | A | 1.14 | | | 24 |
| 25 | | | 1.57 | A | 2.71 | | | A | 1.14 | | | 26 |
| 27 | 15/3 | AHU-2 - GROW ROOM 4 (114) | 1.57 | A | | 2.71 | | A | 1.14 | AHU-1 - GROW ROOM 1 (111) | 15/3 | 28 |
| 29 | | | 1.57 | A | | | 2.71 | A | 1.14 | | | 30 |
| 31 | | | | | 1.14 | | | A | 1.14 | | | 32 |
| 33 | | | | | | 1.14 | | A | 1.14 | AHU-1 - GROW ROOM 1 (111) | 15/3 | 34 |
| 35 | | | | | | | 1.14 | A | 1.14 | | | 36 |
| 37 | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 12.99 | 12.99 | 12.99 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 38.96 | 100% | 38.96 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | 4.70 | 25% | 1.18 |
| TOTAL | 38.96 | | 40.14 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HMA |
| MAIN C.B.: | MLO | |
| BUS: | 125 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 48.28 | 46.89 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | | | 1.14 | A | 2.28 | | | A | 1.14 | | | 2 |
| 3 | 15/3 | AHU-1 - GROW ROOM 6 (116) | 1.14 | A | | 2.28 | | A | 1.14 | AHU-1 - GROW ROOM 7 (117) | 15/3 | 4 |
| 5 | | | 1.14 | A | | | 2.28 | A | 1.14 | | | 6 |
| 7 | | | 1.14 | A | 2.28 | | | A | 1.14 | | | 8 |
| 9 | 15/3 | AHU-1 - GROW ROOM 6 (116) | 1.14 | A | | 2.28 | | A | 1.14 | AHU-1 - GROW ROOM 7 (117) | 15/3 | 10 |
| 11 | | | 1.14 | A | | | 2.28 | A | 1.14 | | | 12 |
| 13 | | | 1.14 | A | 2.28 | | | A | 1.14 | | | 14 |
| 15 | 15/3 | AHU-1 - GROW ROOM 6 (116) | 1.14 | A | | 2.28 | | A | 1.14 | AHU-1 - GROW ROOM 7 (117) | 15/3 | 16 |
| 17 | | | 1.14 | A | | | 2.28 | A | 1.14 | | | 18 |
| 19 | | | 1.14 | A | 2.71 | | | A | 1.57 | | | 20 |
| 21 | 15/3 | AHU-1 - GROW ROOM 5 (115) | 1.14 | A | | 2.71 | | A | 1.57 | AHU-2 - VEG ROOM 1 (118) | 15/3 | 22 |
| 23 | | | 1.14 | A | | | 2.71 | A | 1.57 | | | 24 |
| 25 | | | 1.14 | A | 2.71 | | | A | 1.57 | | | 26 |
| 27 | 15/3 | AHU-1 - GROW ROOM 5 (115) | 1.14 | A | | 2.71 | | A | 1.57 | AHU-2 - VEG ROOM 1 (118) | 15/3 | 28 |
| 29 | | | 1.14 | A | | | 2.71 | A | 1.57 | | | 30 |
| 31 | | | 1.14 | A | 2.71 | | | A | 1.57 | | | 32 |
| 33 | 15/3 | AHU-1 - GROW ROOM 5 (115) | 1.14 | A | | 2.71 | | A | 1.57 | AHU-2 - VEG ROOM 1 (118) | 15/3 | 34 |
| 35 | | | 1.14 | A | | | 2.71 | A | 1.57 | | | 36 |
| 37 | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 14.98 | 14.98 | 14.98 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 44.94 | 100% | 44.94 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | 4.70 | 25% | 1.18 |
| TOTAL | 44.94 | | 46.11 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HMB |
| MAIN C.B.: | MLO | |
| BUS: | 125 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 55.47 | 54.08 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | | | 6.24 | A | 11.31 | | | A | 5.07 | | | 2 |
| 3 | 30/3 | RTU-2 | 6.24 | A | | 11.31 | | A | 5.07 | RTU-1 | 25/3 | 4 |
| 5 | | | 6.24 | A | | | 11.31 | A | 5.07 | | | 6 |
| 7 | | | 5.07 | A | 10.15 | | | A | 5.07 | | | 8 |
| 9 | 25/3 | RTU-1 | 5.07 | A | | 10.15 | | A | 5.07 | RTU-1 | 25/3 | 10 |
| 11 | | | 5.07 | A | | | 10.15 | A | 5.07 | | | 12 |
| 13 | | | 5.07 | A | 13.84 | | | A | 8.76 | | | 14 |
| 15 | 25/3 | RTU-1 | 5.07 | A | | 13.84 | | A | 8.76 | VRF-1 | 40/3 | 16 |
| 17 | | | 5.07 | A | | | 13.84 | A | 8.76 | | | 18 |
| 19 | | | 5.07 | A | 10.15 | | | A | 5.07 | | | 20 |
| 21 | 25/3 | RTU-1 | 5.07 | A | | 10.15 | | A | 5.07 | RTU-1 | 25/3 | 22 |
| 23 | | | 5.07 | A | | | 10.15 | A | 5.07 | | | 24 |
| 25 | | | 5.07 | A | 10.15 | | | A | 5.07 | | | 26 |
| 27 | 25/3 | RTU-1 | 5.07 | A | | 10.15 | | A | 5.07 | RTU-1 | 25/3 | 28 |
| 29 | | | 5.07 | A | | | 10.15 | A | 5.07 | | | 30 |
| 31 | | | 5.07 | A | 10.15 | | | A | 5.07 | | | 32 |
| 33 | 25/3 | RTU-1 | 5.07 | A | | 10.15 | | A | 5.07 | RTU-1 | 25/3 | 34 |
| 35 | | | 5.07 | A | | | 10.15 | A | 5.07 | | | 36 |
| 37 | | | 5.07 | A | 10.15 | | | A | 5.07 | | | 38 |
| 39 | 25/3 | RTU-1 | 5.07 | A | | 10.15 | | A | 5.07 | RTU-1 | 25/3 | 40 |
| 41 | | | 5.07 | A | | | 10.15 | A | 5.07 | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 75.88 | 75.88 | 75.88 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 227.64 | 100% | 227.64 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | 18.72 | 25% | 4.68 |
| TOTAL | 227.64 | | 232.32 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HMC |
| MAIN C.B.: | MLO | |
| BUS: | 400 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 279.43 | 273.93 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | | | 4.67 | A | 9.35 | | | A | 4.67 | | | 2 |
| 3 | 25/3 | AC-1 | 4.67 | A | | 9.35 | | A | 4.67 | AC-1 | 25/3 | 4 |
| 5 | | | 4.67 | A | | | 9.35 | A | 4.67 | | | 6 |
| 7 | | | 4.67 | A | 9.35 | | | A | 4.67 | | | 8 |
| 9 | 25/3 | AC-1 | 4.67 | A | | 9.35 | | A | 4.67 | AC-1 | 25/3 | 10 |
| 11 | | | 4.67 | A | | | 9.35 | A | 4.67 | | | 12 |
| 13 | | | 4.67 | A | 9.35 | | | A | 4.67 | | | 14 |
| 15 | 25/3 | AC-1 | 4.67 | A | | 9.35 | | A | 4.67 | AC-1 | 25/3 | 16 |
| 17 | | | 4.67 | A | | | 9.35 | A | 4.67 | | | 18 |
| 19 | | | 4.67 | A | 9.35 | | | A | 4.67 | | | 20 |
| 21 | 25/3 | AC-1 | 4.67 | A | | 9.35 | | A | 4.67 | AC-1 | 25/3 | 22 |
| 23 | | | 4.67 | A | | | 9.35 | A | 4.67 | | | 24 |
| 25 | | | 4.67 | A | 9.35 | | | A | 4.67 | | | 26 |
| 27 | 25/3 | AC-1 | 4.67 | A | | 9.35 | | A | 4.67 | AC-1 | 25/3 | 28 |
| 29 | | | 4.67 | A | | | 9.35 | A | 4.67 | | | 30 |
| 31 | | | 4.67 | A | 9.35 | | | A | 4.67 | | | 32 |
| 33 | 25/3 | AC-1 | 4.67 | A | | 9.35 | | A | 4.67 | AC-1 | 25/3 | 34 |
| 35 | | | 4.67 | A | | | 9.35 | A | 4.67 | | | 36 |
| 37 | | | 4.67 | A | 9.35 | | | A | 4.67 | | | 38 |
| 39 | 25/3 | AC-1 | 4.67 | A | | 9.35 | | A | 4.67 | AC-1 | 25/3 | 40 |
| 41 | | | 4.67 | A | | | 9.35 | A | 4.67 | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 65.44 | 65.44 | 65.44 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 196.32 | 100% | 196.32 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | 14.02 | 25% | 3.51 |
| TOTAL | 196.32 | | 199.83 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HMD |
| MAIN C.B.: | MLO | |
| BUS: | 400 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 240.36 | 236.25 | |

| CKT | C.B. | SERVICE | LOAD KVA | | | | | | | SERVICE | C.B. | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | AMP/P | | TOTAL | TYPE | A | B | C | TYPE | TOTAL | | AMP/P | No. |
| 1 | | | 4.67 | A | 10.92 | | | A | 6.24 | | | 2 |
| 3 | 25/3 | AC-1 | 4.67 | A | | 10.92 | | A | 6.24 | AC-2 | 30/3 | 4 |
| 5 | | | 4.67 | A | | | 10.92 | A | 6.24 | | | 6 |
| 7 | | | 8.76 | A | 15.01 | | | A | 6.24 | | | 8 |
| 9 | 40/3 | VRF-1 | 8.76 | A | | 15.01 | | A | 6.24 | AC-2 | 30/3 | 10 |
| 11 | | | 8.76 | A | | | 15.01 | A | 6.24 | | | 12 |
| 13 | | | 4.67 | A | 10.92 | | | A | 6.24 | | | 14 |
| 15 | 25/3 | AC-1 | 4.67 | A | | 10.92 | | A | 6.24 | AC-2 | 30/3 | 16 |
| 17 | | | 4.67 | A | | | 10.92 | A | 6.24 | | | 18 |
| 19 | | | 4.67 | A | 10.92 | | | A | 6.24 | | | 20 |
| 21 | 25/3 | AC-1 | 4.67 | A | | 10.92 | | A | 6.24 | RTU-2 | 30/3 | 22 |
| 23 | | | 4.67 | A | | | 10.92 | A | 6.24 | | | 24 |
| 25 | | | 4.67 | A | 10.92 | | | A | 6.24 | | | 26 |
| 27 | 25/3 | AC-1 | 4.67 | A | | 10.92 | | A | 6.24 | RTU-2 | 30/3 | 28 |
| 29 | | | 4.67 | A | | | 10.92 | A | 6.24 | | | 30 |
| 31 | | | 4.67 | A | 10.92 | | | A | 6.24 | | | 32 |
| 33 | 25/3 | AC-1 | 4.67 | A | | 10.92 | | A | 6.24 | RTU-2 | 30/3 | 34 |
| 35 | | | 4.67 | A | | | 10.92 | A | 6.24 | | | 36 |
| 37 | | | 4.67 | A | 4.67 | | | | | | | 38 |
| 39 | 25/3 | AC-1 | 4.67 | A | | 4.67 | | | | | | 40 |
| 41 | | | 4.67 | A | | | 4.67 | | | | | 42 |
| | | CONNECTED LOAD PER PHASE | | | 74.26 | 74.26 | 74.26 | | | | | |

| LOAD SUMMARY | CONN. KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| TYPE "L": CONTINUOUS LOADS | | 125% | |
| TYPE "R": RECEPTACLES (FIRST 10KVA) | | 100% | |
| RECEPTACLES (OVER 10KVA) | | 50% | |
| TYPE "M": MISCELLANEOUS LOADS | | 100% | |
| TYPE "A": AC LOADS | 222.78 | 100% | 222.78 |
| TYPE "K": KITCHEN LOADS | | 65% | |
| LARGEST MOTOR LOAD | 26.29 | 25% | 6.57 |
| TOTAL | 222.78 | | 229.35 |

| (PANEL PLACARD) | | |
|---|---|---|
| VOLTS: | 480Y/277V, 3PH, 4W | PANEL NAME: HME |
| MAIN C.B.: | MLO | |
| BUS: | 400 A | |
| POLES: | 42 | FED BY: MS |
| MOUNTING: | SURFACE | |
| AIC RATING: | 42,000 A | |
| DEMAND AMPS | MAX. CONNECTED LOAD TO ONE PHASE AMPS | |
| 275.86 | 268.08 | |

| | | |
|---|---|---|
| 'HLA' | 'HLB' | 'HLC' |
| 'HLD' | 'HLE' | 'HLF' |
| 'HLG' | 'HMA' | 'HMB' |
| 'HMC' | 'HMD' | 'HME' |


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STAMP

REGISTERED PROFESSIONAL ENGINEER
SAMAN KAZEMZADEH PARSI
No. 19332
Exp. 12/31/22
ELECTRICAL
STATE OF CALIFORNIA


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# FRESHMADE GROW

TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

PANEL SCHEDULES

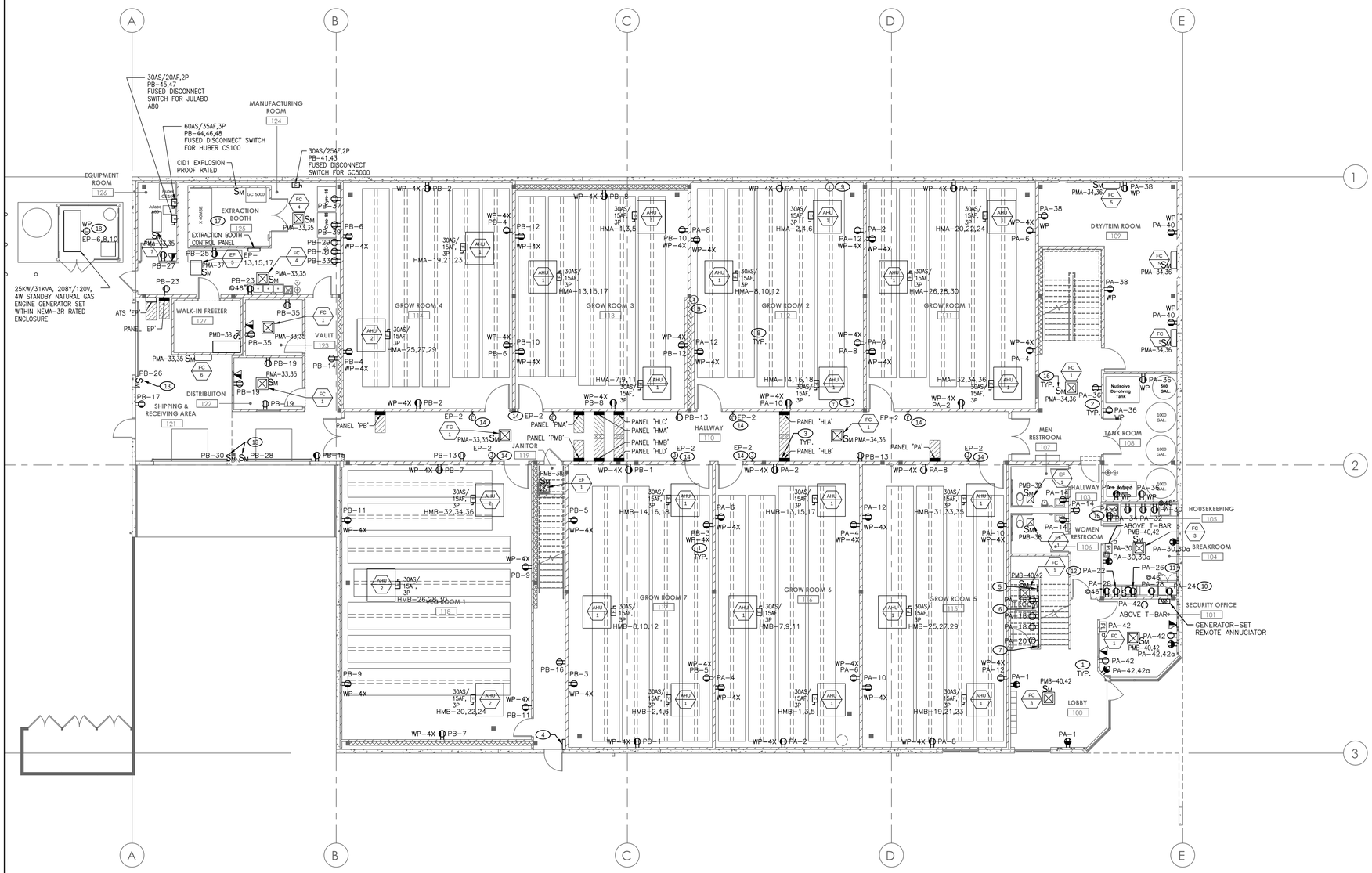
| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTLA SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET

E3-2

04/15/2021 PLAN CHECK SUBMITTAL SET




## GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL CODE 2019 EDITION..
2. ALL ELECTRICAL INSTALLATION AND WIRING ARE REQUIRED TO BE PERMITTED AND INSPECTED FOR COMPLIANCE WITH THE CALIFORNIA ELECTRICAL CODE, 2019 EDITION.
3. IF DRAWINGS ARE INCORRECT FROM ACTUAL SITE CONDITIONS, ELECTRICAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER AND PROVIDE INFORMATION REFLECTING THE ACTUAL CONDITIONS.
4. INSTALL ALL ROUGH ELECTRICAL. SCHEDULE INSPECTION WITH INSPECTOR PRIOR TO COVERING ROUGH ELECTRICAL TO ENSURE CORRECT PLACEMENT AND TYPE OF SERVICE FOR EACH EQUIPMENT.
5. VERIFY EXACT LOCATION, FOR ELECTRICAL PANEL IN FIELD. THERE SHALL BE A MINIMUM OF 3 FEET CLEAR WORKING SPACE IN FRONT OF PANELBOARD, PER 2019 CEC 110.26(A)1.
6. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE SPACE ABOVE THE ELECTRICAL EQUIPMENT, AS REQUIRED BY CEC 110.26(E)(1).
7. LABEL ALL BREAKERS ON SERVICE PANELBOARD AND INSTALL PANEL SCHEDULE ON THE PANELBOARD'S DOOR.
8. CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASES, UTILITY SPACES OR ABOVE CEILINGS.
9. FLEXIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS, PER SECTION 400.8 OF CALIFORNIA ELECTRICAL CODE, 2019 EDITION AS AMENDED BY THE DSA.
10. CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL ORIGINATE FROM THE SAME PANELBOARD. THE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS (HANDLE TIE) AT THE POINT WHERE THE BRANCH CIRCUITS ORIGINATED, AS REQUIRED BY CEC 210.4.
11. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MUTLIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT-LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION, AS REQUIRED BY CEC 210.4(D).
12. INTERIOR FLUSH BOXES SHALL BE CODE GRADE STEEL, SECURELY FASTENED WITH APPROVED DEVICES TO STUDS OR MASONRY.
13. ALL LIGHTING SWITCHES AND RECEPTACLES SHALL BE FLUSH WITH THE WALL FINISH.
14. LIGHTING SWITCHES, CONTROL STATIONS, AND INDOOR OUTLET PLATES SHALL BE STAINLESS STEEL.
15. ALL POWER OUTLETS SHALL BE MOUNTED AT 18"-24" A.F.F. (UON), AND SHALL NOT BE OBSTRUCTED BY SHELVING OR DRAWERS.
16. OUTLETS AT RECEPTION COUNTER ARE TO BE RECESSED OR BUILT-IN CABINETRY KNEE-WALL.
17. ALL OUTDOOR/ROOF MOUNTED 120V RECEPTACLES ARE TO BE GFCI PROTECTED AND INSTALLED WITHIN A NEMP-3R WEATHERPROOF OUTLET, AND PROVIDED WITH NEMP-3R WEATHERPROOF WHILE-IN-USE TYPE COVER.
18. CONTRACTOR SHALL PROVIDE POWER TO THE HVAC UNITS (RTU, MAU, EF, WSHP, FC, ETC.), BASED ON THE FINAL INSTALLED HVAC UNIT MANUFACTURER'S REQUIREMENTS.
19. CONTRACTOR SHALL VERIFY WITH INSPETOR AND OAR FOR THE EQUIPMENT'S FINAL LOCATIONS. CONTRACTOR SHALL OBTAIN THE A/V (AUDIO / VIDEO) EQUIPMENT'S DATA SHEETS, AND PROVIDE POWER TO THE A/V EQUIPMENT, BASED THE MANUFACTURER'S REQUIREMENTS.
20. CONTRACTOR SHALL REFER TO MECHANICAL DRAWING FOR THE THERMOSTAT'S LOCATION AND QUANTITIES. CONTRACTOR TO PROVIDE RECESSED BACK-BOX, SIZE AS REQUIRED, FOR THERMOSTAT(S). CONTRACTOR TO PROVIDE 3/4" CONDUIT FROM THERMOSTAT(S) TO HVAC UNIT(S). WIRING TO THERMOSTAT(S), IS BY MECHANICAL..
21. PROVIDE BRANCH CIRCUITS WIRING FROM PANEL BOARDS TO THE OUTLETS, EQUIPMENT, LIGHTING FIXTURES, AND HVAC UNITS; BRANCH CIRCUIT NUMBERS AS INDICATED. THE MINIMUM SIZE OF CONDUCTOR FOR 15A AND 20A RATED BRANCH CIRCUITS WIRES AND EQUIPMENT GROUND WIRE, SHALL BE #12AWG THHN/THWN CU., UON. THE MINIMUM SIZE OF CONDUCTOR FOR 25A AND 30A RATED BRANCH CIRCUITS WIRES AND EQUIPMENT GROUND WIRE, SHALL BE #10AWG THHN/THWN CU., UON.
22. ALL 125-VOLT SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS, AND WITHIN 6 FT OF THE OUTSIDE EDGE OF A SINK SHALL HAVE GROUND-FAULT-INTERRUPTER PROTECTION FOR PERSONNEL, PER SECTION 210.8(8)(5) OF CALIFORNIA ELECTRICAL CODE, 2019.

## KEYNOTES NOTES:

1. PROVIDE BRANCH CIRCUITS CONDUITS/WIRING FROM THE PANEL BOARDS TO THE POWER OUTLETS, WATER HEATERS, CULTIVATION SYSTEM, HVAC UNITS, AND OTHER EQUIPMENT. REFER TO THE FLOOR PLANS FOR BRANCH CIRCUIT NUMBERS, AND PANEL NAME AND REFER TO THE PANEL SCHEDULES FOR BRANCH CIRCUIT RATING.
2. "PA-22" INDICATES: PANEL "P1", BRANCH CIRCUIT "22".
3. AREA SHOWN BY THE DASHED LINES INDICATES THE REQUIRED CLEARANCE FOR ELECTRICAL WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT, PER CEC 110.26(A)(1).
4. BUILDING'S MAIN GROUNDING ELECTRODE BUS BAR INSTALLED WITHIN A 20" X 20" X 6" DEEP NEMA-1 RATED METAL ENCLOSURE. REFER TO DETAIL #1, SHEET E9-1 FOR GROUNDING SYSTEM REQUIREMENTS.
5. TELECOMMUNICATION MAIN GROUNDING BUS BAR (TMGB). REFER TO DETAIL #2, SHEET E9-1 FOR GROUNDING SYSTEM REQUIREMENTS.
6. 4' W X 8' H X 3/4" THICK FIRE RETARDANT PLYWOOD SHEET FOR TELEPHONE/INTERNET MPOE.
7. 4' W X 8' H X 3/4" THICK FIRE RETARDANT PLYWOOD SHEET FOR SECURITY SYSTEM, FIRE ALARM AND OTHER FUTURE LOW VOLTAGE SYSTEMS.
8. ALL ELECTRICAL WIRING AND RACEWAY INSTALLATIONS (INCLUDING: CONDUITS, CONDULETS, COUPLINGS, CONNECTORS, BOXES, ... ETC.) AND ALL LINE-VOLTAGE AND LOW-VOLTAGE ELECTRICAL DEVICES AND EQUIPMENT (INCLUDING: SWITCHES, OUTLETS, DISCONNECT SWITCHES, CONTROL DEVICES, ... ETC.), WHICH ARE TO BE INSTALLED WITHIN THE CULTIVATION ROOMS, AT OR LOWER THAN 8-FEET FROM THE FINISHED FLOOR, SHALL BE WET-LOCATION LISTED OR SHALL BE INSTALLED WITHIN A WET-LOCATION LISTED ENCLOSURE/BOX AND COVER.
FOR THE ABOVE-MENTIONED INSTALLATIONS NEMA-3R OR IP-65 RATING ARE NOT ACCEPTABLE. INSTALLATIONS SHALL BE RATED AS SUCH TO PROVIDE PROTECTED AGAINST STRONG JETS OF WATER FROM ALL DIRECTIONS, THEREFORE IT SHALL HAVE RATING OF NEMA-4, IP-66, OR A HIGHER WATER-RESISTANCE RATING.
THE CULTIVATION ROOMS THAT SHALL COMPLY WITH THE ABOVE-MENTIONED REQUIREMENTS, ARE GROW ROOMS, VEG. ROOMS, AND MOTHER ROOMS.
9. PROVIDE RECESSED BACK-BOX FOR THERMOSTAT AND 1/2" CONDUIT TO THE RESPECTED HVAC UNITS. FULLY COORDINATE WITH MECHANICAL AND PROJECT MANAGER FOR THE LOCATION, MOUNTING HEIGHT, AND SIZE OF BACK-BOX AND FOR LOCATION OF THE HVAC UNIT. THERMOSTAT AND CONTROL WIRING BY MECHANICAL.
10. PROVIDE POWER OUTLET FOR REFRIGERATOR. THE OUTLET SHALL BE PROVIDED WITHIN EXTRA DEEP JUNCTION BOXES AND RECESSED COVERS. FULLY COORDINATE FOR THE EXACT LOCATION AND MOUNTING HEIGHT WITH PROJECT MANAGER.
11. PROVIDE POWER OUTLET UNDER THE SINK AND TOGGLE SWITCH ABOVE THE COUNTED FOR GARBAGE DISPOSAL. FULLY COORDINATE FOR THE EXACT LOCATION AND MOUNTING HEIGHT WITH PROJECT MANAGER.
12. PROVIDE POWER OUTLET AT 80" AFF FOR WALL MOUNTED MICROWAVE OVEN. THE OUTLET SHALL BE PROVIDED WITHIN EXTRA DEEP JUNCTION BOXES AND RECESSED COVERS. FULLY COORDINATE FOR THE EXACT LOCATION AND MOUNTING HEIGHT WITH PROJECT MANAGER.
13. THE EXISTING ROLL-UP DOOR MOTOR AND CONTROL STATION TO REMAIN AND PROTECTED. PROVIDE NEW POWER DISCONNECT AND BRANCH CIRCUIT WIRING PER THE MANUFACTURER REQUIREMENTS.
14. PROVIDE WALL MOUNTED JUNCTION BOX WITH BRANCH CIRCUIT CONDUIT/WIRING FOR THE CO2 SYSTEM MONITOR/CONTROLLER/COMPONENTS. FULLY COORDINATE WITH PROJECT MANAGER FOR EXACT LOCATION AND COORDINATE WITH MANUFACTURER FOR THE COMPONENTS THAT REQUIRE POWER CONNECTION.
15. PROVIDE A WALL MOUNT, GFCI, AND WEATHER RESISTANT LISTED POWER OUTLET ON A DEDICATED CIRCUIT FOR THE WATER HEATER FUTURE CIRCULATION PUMP. THE OUTLET SHALL BE INSTALLED WITHIN A WEATHERPROOF BACK-BOX AT +80" AFF.
16. PROVIDE 20A, 250VAC, DOUBLE POLE, SINGLE PHASE, MOTOR RATED, MANUAL STARTER SWITCH FOR THE FAN COIL POWER DISCONNECT. TYPICAL FOR ALL TYPE FC-1 TO FC-7 FAN COIL UNITS. COORDINATE FOR THE EXACT LOCATION WITH MECHANICAL AND PROJECT MANAGER.
17. POWER OUTLETS, SWITCHES, DISCONNECTS, AND OTHER ELECTRICAL DEVICES THAT ARE TO BE LOCATED WITHIN THE EXTRACTION BOOTH SHALL BE PROVIDED BY THE BOOTH MANUFACTURER AS PART OF THE BOOTH'S ASSEMBLY/PARTS. ALL THE ELECTRICAL INSTALLATIONS WITHIN THE EXTRACTION BOOTH SHALL BE EXPLOSION PROOF RATED FOR CID1 HAZARDOUS AREA.
18. PROVIDE POWER CIRCUIT FOR THE GENERATOR JACKET ENGINE HEATER, BATTERY CHARGER, CONTROLLER, ETC., AS NEEDED PER THE MANUFACTURER REQUIREMENTS.

FIRST FLOOR ELECTRICAL PLAN | SCALE: 1/8" =1'-0" | 1

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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

FIRST FLOOR ELECTRICAL PLAN

| DATE | REMARKS |
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| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

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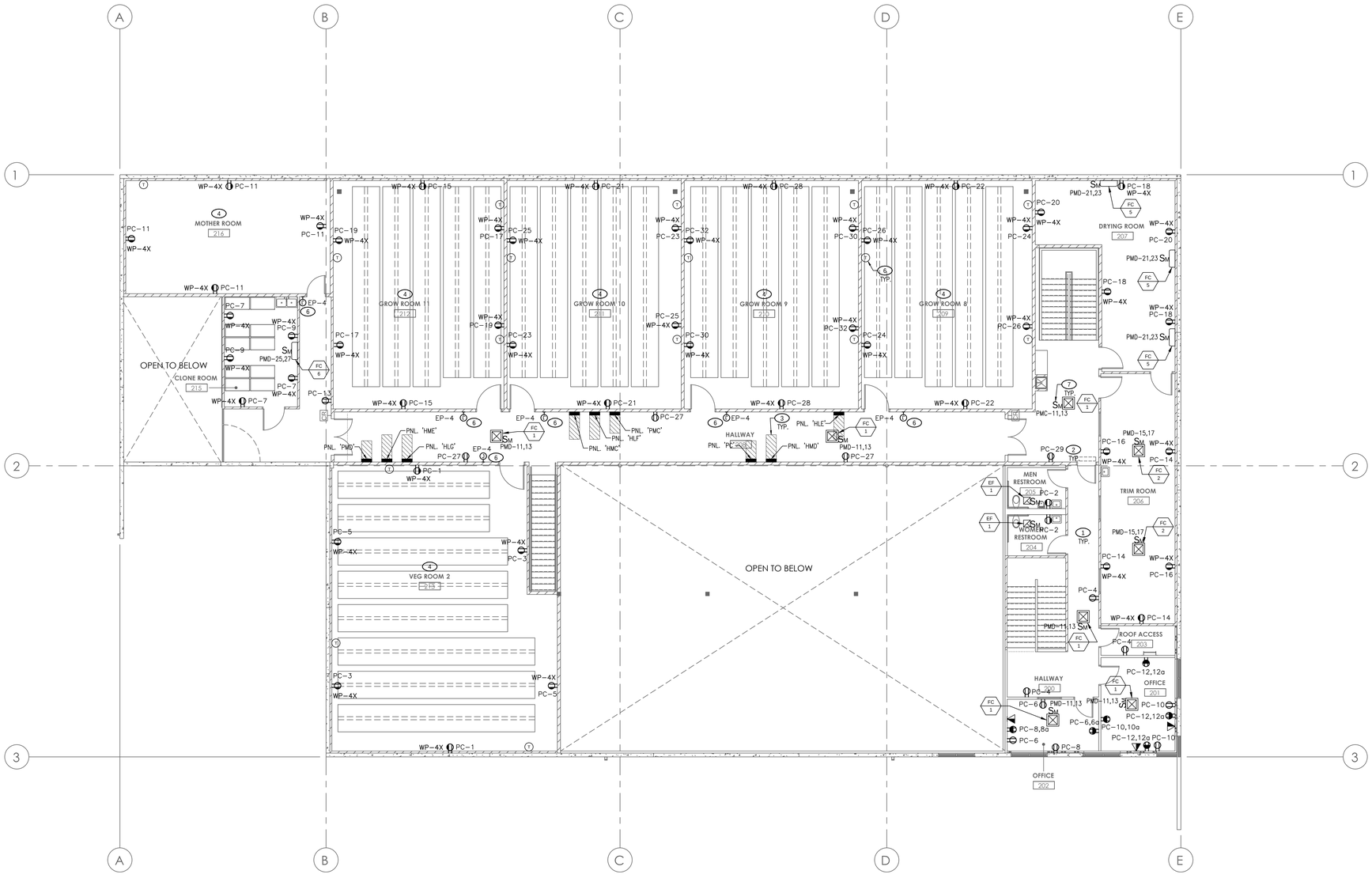


## GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL CODE 2019 EDITION..
2. ALL ELECTRICAL INSTALLATION AND WIRING ARE REQUIRED TO BE PERMITTED AND INSPECTED FOR COMPLIANCE WITH THE CALIFORNIA ELECTRICAL CODE, 2019 EDITION.
3. IF DRAWINGS ARE INCORRECT FROM ACTUAL SITE CONDITIONS, ELECTRICAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER AND PROVIDE INFORMATION REFLECTING THE ACTUAL CONDITIONS.
4. INSTALL ALL ROUGH ELECTRICAL. SCHEDULE INSPECTION WITH INSPECTOR PRIOR TO COVERING ROUGH ELECTRICAL TO ENSURE CORRECT PLACEMENT AND TYPE OF SERVICE FOR EACH EQUIPMENT.
5. VERIFY EXACT LOCATION, FOR ELECTRICAL PANEL IN FIELD. THERE SHALL BE A MINIMUM OF 3 FEET CLEAR WORKING SPACE IN FRONT OF PANELBOARD, PER 2019 CEC 110.26(A)1.
6. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE SPACE ABOVE THE ELECTRICAL EQUIPMENT, AS REQUIRED BY CEC 110.26(E)(1).
7. LABEL ALL BREAKERS ON SERVICE PANELBOARD AND INSTALL PANEL SCHEDULE ON THE PANELBOARD'S DOOR.
8. CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASES, UTILITY SPACES OR ABOVE CEILINGS.
9. FLEXIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS, PER SECTION 400.8 OF CALIFORNIA ELECTRICAL CODE, 2019 EDITION AS AMENDED BY THE DSA.
10. CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL ORIGINATE FROM THE SAME PANELBOARD. THE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS (HANDLE TIE) AT THE POINT WHERE THE BRANCH CIRCUITS ORIGINATED, AS REQUIRED BY CEC 210.4.
11. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MUTLIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT-LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION, AS REQUIRED BY CEC 210.4(D).
12. INTERIOR FLUSH BOXES SHALL BE CODE GRADE STEEL, SECURELY FASTENED WITH APPROVED DEVICES TO STUDS OR MASONRY.
13. ALL LIGHTING SWITCHES AND RECEPTACLES SHALL BE FLUSH WITH THE WALL FINISH.
14. LIGHTING SWITCHES, CONTROL STATIONS, AND INDOOR OUTLET PLATES SHALL BE STAINLESS STEEL.
15. ALL POWER OUTLETS SHALL BE MOUNTED AT 18"-24" A.F.F. (UON), AND SHALL NOT BE OBSTRUCTED BY SHELVING OR DRAWERS.
16. OUTLETS AT RECEPTION COUNTER ARE TO BE RECESSED OR BUILT-IN CABINETRY KNEE-WALL.
17. ALL OUTDOOR/ROOF MOUNTED 120V RECEPTACLES ARE TO BE GFCI PROTECTED AND INSTALLED WITHIN A NEMP-3R WEATHERPROOF OUTLET, AND PROVIDED WITH NEMP-3R WEATHERPROOF WHILE-IN-USE TYPE COVER.
18. CONTRACTOR SHALL PROVIDE POWER TO THE HVAC UNITS (RTU, MAU, EF, WSHP, FC, ETC.), BASED ON THE FINAL INSTALLED HVAC UNIT MANUFACTURER'S REQUIREMENTS.
19. CONTRACTOR SHALL VERIFY WITH INSPETOR AND OAR FOR THE EQUIPMENT'S FINAL LOCATIONS. CONTRACTOR SHALL OBTAIN THE A/V (AUDIO / VIDEO) EQUIPMENT'S DATA SHEETS, AND PROVIDE POWER TO THE A/V EQUIPMENT, BASED THE MANUFACTURER'S REQUIREMENTS.
20. CONTRACTOR SHALL REFER TO MECHANICAL DRAWING FOR THE THERMOSTAT'S LOCATION AND QUANTITIES. CONTRACTOR TO PROVIDE RECESSED BACK-BOX, SIZE AS REQUIRED, FOR THERMOSTAT(S). CONTRACTOR TO PROVIDE 3/4" CONDUIT FROM THERMOSTAT(S) TO HVAC UNIT(S). WIRING TO THERMOSTAT(S), IS BY MECHANICAL..
21. PROVIDE BRANCH CIRCUITS WIRING FROM PANEL BOARDS TO THE OUTLETS, EQUIPMENT, LIGHTING FIXTURES, AND HVAC UNITS; BRANCH CIRCUIT NUMBERS AS INDICATED. THE MINIMUM SIZE OF CONDUCTOR FOR 15A AND 20A RATED BRANCH CIRCUITS WIRES AND EQUIPMENT GROUND WIRE, SHALL BE #12AWG THHN/THWN CU., UON. THE MINIMUM SIZE OF CONDUCTOR FOR 25A AND 30A RATED BRANCH CIRCUITS WIRES AND EQUIPMENT GROUND WIRE, SHALL BE #10AWG THHN/THWN CU., UON.
22. ALL 125-VOLT SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS, AND WITHIN 6 FT OF THE OUTSIDE EDGE OF A SINK SHALL HAVE GROUND-FAULT-INTERRUPTER PROTECTION FOR PERSONNEL, PER SECTION 210.8(B)(5) OF CALIFORNIA ELECTRICAL CODE, 2019.

## KEYNOTES NOTES:

1. PROVIDE BRANCH CIRCUITS CONDUITS/WIRING FROM THE PANEL BOARDS TO THE POWER OUTLETS, WATER HEATERS, CULTIVATION SYSTEM, HVAC UNITS, AND OTHER EQUIPMENT. REFER TO THE FLOOR PLANS FOR BRANCH CIRCUIT NUMBERS, AND PANEL NAME AND REFER TO THE PANEL SCHEDULES FOR BRANCH CIRCUIT RATING.
2. "PC-29" INDICATES: PANEL "PC", BRANCH CIRCUIT "29".
3. AREA SHOWN BY THE DASHED LINES INDICATES THE REQUIRED CLEARANCE FOR ELECTRICAL WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT, PER CEC 110.26(A)(1).
4. ALL ELECTRICAL WIRING AND RACEWAY INSTALLATIONS (INCLUDING: CONDUITS, CONDULETS, COUPLINGS, CONNECTORS, BOXES, ... ETC.) AND ALL LINE-VOLTAGE AND LOW-VOLTAGE ELECTRICAL DEVICES AND EQUIPMENT (INCLUDING: SWITCHES, OUTLETS, DISCONNECT SWITCHES, CONTROL DEVICES, ... ETC.), WHICH ARE TO BE INSTALLED WITHIN THE CULTIVATION ROOMS, AT OR LOWER THAN 8-FEET FROM THE FINISHED FLOOR, SHALL BE WET-LOCATION LISTED OR SHALL BE INSTALLED WITHIN A WET-LOCATION LISTED ENCLOSURE/BOX AND COVER.
FOR THE ABOVE-MENTIONED INSTALLATIONS NEMA-3R OR IP-65 RATING ARE NOT ACCEPTABLE. INSTALLATIONS SHALL BE RATED AS SUCH TO PROVIDE PROTECTED AGAINST STRONG JETS OF WATER FROM ALL DIRECTIONS, THEREFORE IT SHALL HAVE RATING OF NEMA-4, IP-66, OR A HIGHER WATER-RESISTANCE RATING.
THE CULTIVATION ROOMS THAT SHALL COMPLY WITH THE ABOVE-MENTIONED REQUIREMENTS, ARE GROW ROOMS, VEG. ROOMS, AND MOTHER ROOMS.
5. PROVIDE RECESSED BACK-BOX FOR THERMOSTAT AND 1/2" CONDUIT TO THE RESPECTED HVAC UNITS. FULLY COORDINATE WITH MECHANICAL AND PROJECT MANAGER FOR THE LOCATION, MOUNTING HEIGHT, AND SIZE OF BACK-BOX AND FOR LOCATION OF THE HVAC UNIT. THERMOSTAT AND CONTROL WIRING BY MECHANICAL.
6. PROVIDE WALL MOUNTED JUNCTION BOX WITH BRANCH CIRCUIT CONDUIT/WIRING FOR THE CO2 SYSTEM MONITOR/CONTROLLER/COMPONENTS. FULLY COORDINATE WITH PROJECT MANAGER FOR EXACT LOCATION AND COORDINATE WITH MANUFACTURER FOR THE COMPONENTS THAT REQUIRE POWER CONNECTION.
7. PROVIDE 20A, 250VAC, DOUBLE POLE, SINGLE PHASE, MOTOR RATED, MANUAL STARTER SWITCH FOR THE FAN COIL POWER DISCONNECT. TYPICAL FOR ALL TYPE FC-1 TO FC-7 FAN COIL UNITS. COORDINATE FOR THE EXACT LOCATION WITH MECHANICAL AND PROJECT MANAGER.

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# FRESHMADE GROW

TENANT IMPROVEMENT

4517 LITTLEJOHN STREET

BALDWIN PARK, CA 91706

SECOND FLOOR ELECTRICAL PLAN

| DATE | REMARKS |
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SECOND FLOOR ELECTRICAL PLAN — SCALE: 1/8" =1'-0" — 1

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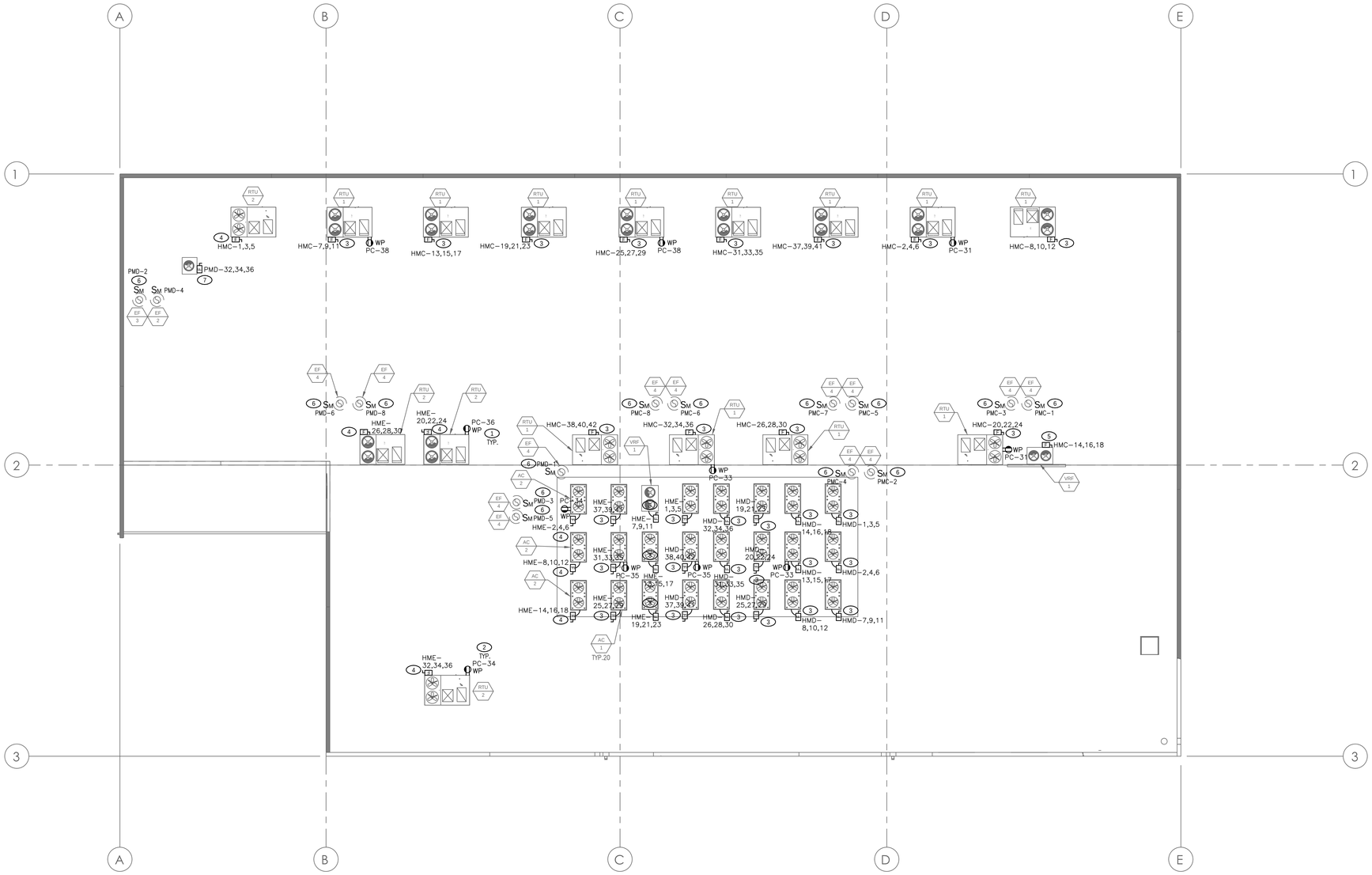


## GENERAL NOTES:

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6. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE SPACE ABOVE THE ELECTRICAL EQUIPMENT, AS REQUIRED BY CEC 110.26(E)(1).
7. LABEL ALL BREAKERS ON SERVICE PANELBOARD AND INSTALL PANEL SCHEDULE ON THE PANELBOARD'S DOOR.
8. CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASES, UTILITY SPACES OR ABOVE CEILINGS.
9. FLEXIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS, PER SECTION 400.8 OF CALIFORNIA ELECTRICAL CODE, 2019 EDITION AS AMENDED BY THE DSA.
10. CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL ORIGINATE FROM THE SAME PANELBOARD. THE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS (HANDLE TIE) AT THE POINT WHERE THE BRANCH CIRCUITS ORIGINATED, AS REQUIRED BY CEC 210.4.
11. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MUTLIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT-LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION, AS REQUIRED BY CEC 210.4(D).
12. INTERIOR FLUSH BOXES SHALL BE CODE GRADE STEEL, SECURELY FASTENED WITH APPROVED DEVICES TO STUDS OR MASONRY.
13. ALL LIGHTING SWITCHES AND RECEPTACLES SHALL BE FLUSH WITH THE WALL FINISH.
14. LIGHTING SWITCHES, CONTROL STATIONS, AND INDOOR OUTLET PLATES SHALL BE STAINLESS STEEL.
15. ALL POWER OUTLETS SHALL BE MOUNTED AT 18"-24" A.F.F. (UON), AND SHALL NOT BE OBSTRUCTED BY SHELVING OR DRAWERS.
16. OUTLETS AT RECEPTION COUNTER ARE TO BE RECESSED OR BUILT-IN CABINETRY KNEE-WALL.
17. ALL OUTDOOR/ROOF MOUNTED 120V RECEPTACLES ARE TO BE GFCI PROTECTED AND INSTALLED WITHIN A NEMP-3R WEATHERPROOF OUTLET, AND PROVIDED WITH NEMP-3R WEATHERPROOF WHILE-IN-USE TYPE COVER.
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22. ALL 125-VOLT SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS, AND WITHIN 6 FT OF THE OUTSIDE EDGE OF A SINK SHALL HAVE GROUND-FAULT-INTERRUPTER PROTECTION FOR PERSONNEL, PER SECTION 210.8(B)(5) OF CALIFORNIA ELECTRICAL CODE, 2019.

## KEYNOTES NOTES:

1. PROVIDE BRANCH CIRCUITS CONDUITS/WIRING FROM THE PANEL BOARDS TO THE POWER OUTLETS, WATER HEATERS, HVAC UNITS, AND OTHER EQUIPMENT. REFER TO THE FLOOR PLANS FOR BRANCH CIRCUIT NUMBERS, AND PANEL NAME AND REFER TO THE PANEL SCHEDULES FOR BRANCH CIRCUIT RATING.
2. "PC-34" INDICATES: PANEL "P2", BRANCH CIRCUIT "34".
3. PROVIDE NEMA-3R 480V, 30AS/25AF, 3P FUSED DISCONNECT SWITCH AND 0.75" CONDUIT WITH 3#10AWG THHN/THWN CU. + 1#10 CU. (GROUND) BRANCH CIRCUIT HOMERUN. PANEL NAME AND CIRCUIT NUMBERS AS INDICATED.
4. PROVIDE NEMA-3R 480V, 30AS/30AF, 3P FUSED DISCONNECT SWITCH AND 0.75" CONDUIT WITH 3#10AWG THHN/THWN CU. + 1#10 CU. (GROUND) BRANCH CIRCUIT HOMERUN. PANEL NAME AND CIRCUIT NUMBERS AS INDICATED.
5. PROVIDE NEMA-3R 480V, 60AS/40AF, 3P FUSED DISCONNECT SWITCH AND 0.75" CONDUIT WITH 3#8AWG THHN/THWN CU. + 1#10 CU. (GROUND) BRANCH CIRCUIT HOMERUN. PANEL NAME AND CIRCUIT NUMBERS AS INDICATED.
6. PROVIDE NEMA-3R 125V, 35A, 1P MOTOR RATED MANUAL STARTER SWITCH AND 0.75" CONDUIT WITH 2#8AWG THHN/THWN CU. + 1#10 CU. (GROUND) BRANCH CIRCUIT HOMERUN. PANEL NAME AND CIRCUIT NUMBERS AS INDICATED.
7. PROVIDE NEMA-3R 208V, 30AS/25AF, 3P FUSED DISCONNECT SWITCH AND 0.75" CONDUIT WITH 3#10AWG THHN/THWN CU. + 1#10 CU. (GROUND) BRANCH CIRCUIT HOMERUN. PANEL NAME AND CIRCUIT NUMBERS AS INDICATED.

ROOF ELECTRICAL PLAN | SCALE: 1/8" =1'-0" | 1

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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

ROOF ELECTRICAL PLAN

| DATE | REMARKS |
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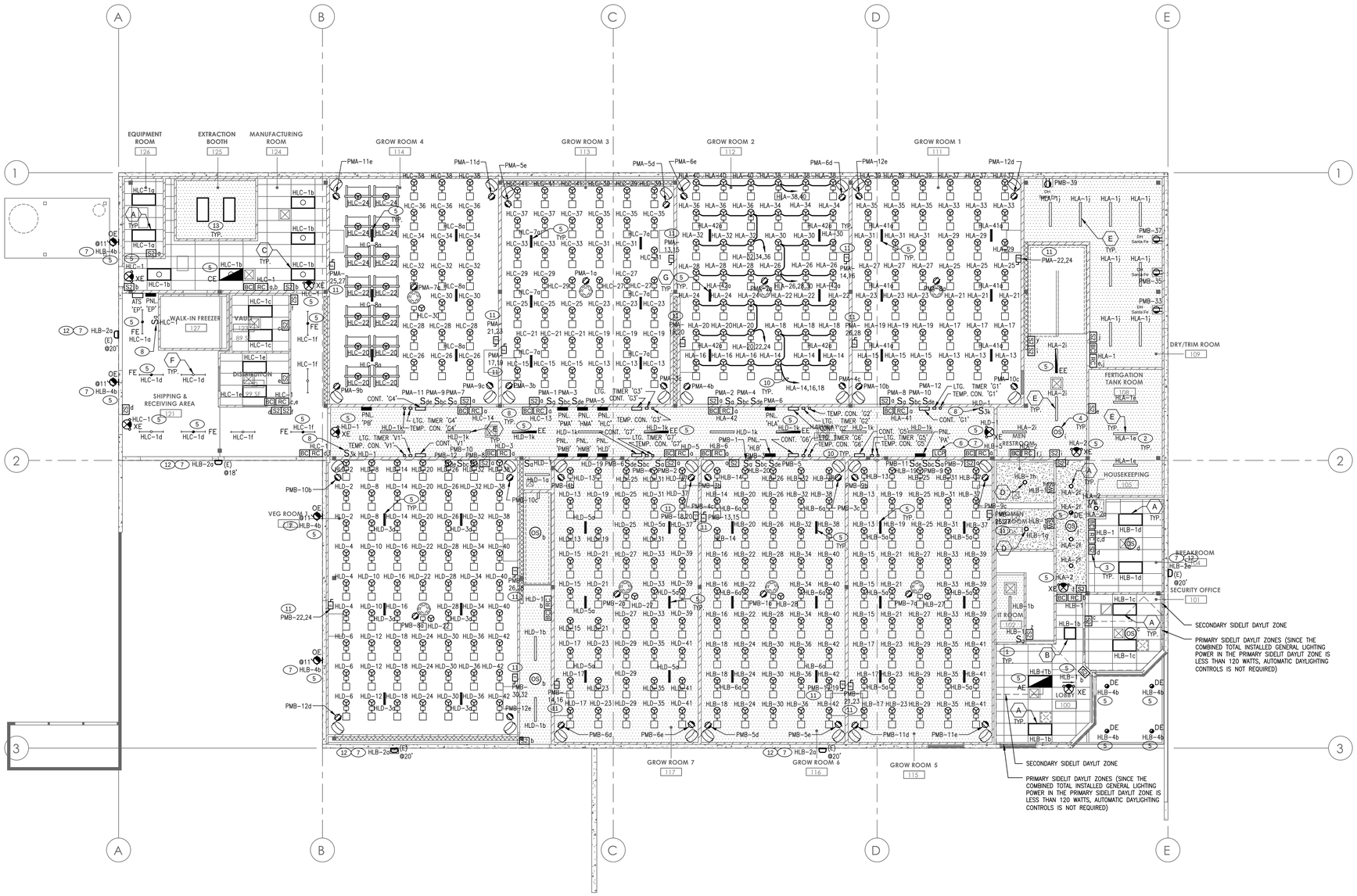


## GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH CEC [THE CALIFORNIA ELECTRICAL CODE, 2019 EDITION, AS AMENDED BY THE CITY].
2. ALL ELECTRICAL INSTALLATION AND WIRING ARE REQUIRED TO BE PERMITTED AND INSPECTED FOR COMPLIANCE WITH CEC AND THE CITY.
3. IF DRAWINGS ARE INCORRECT FROM ACTUAL SITE CONDITIONS, ELECTRICAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER OF RECORD AND PROVIDE INFORMATION REFLECTING THE ACTUAL CONDITIONS.
4. VERIFY EXACT LOCATION, FOR ELECTRICAL PANEL IN FIELD. THERE SHALL BE A 4-FEET OF CLEAR WORKING SPACE IN FRONT OF 480/277V ELECTRICAL PANELS AND ELECTRICAL EQUIPMENT. THE REQUIRED CLEARANCE WILL BE 3-FEET FOR 208/120V ELECTRICAL PANELS AND ELECTRICAL EQUIPMENT. REFER TO CEC 110.26(A)(1) [ARTICLE 110, SECTION 110.26(A)(1)].
5. NO PIPING, DUCTS, OR ANY OTHER INSTALLATION FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE SPACE ABOVE THE ELECTRICAL EQUIPMENT, AS REQUIRED BY CEC 110.26(E)(1).
6. LABEL ALL BREAKERS ON SERVICE SWITCHBOARD AND INSTALL PANEL SCHEDULE TO ALL PANEL BOARD'S DOOR.
7. CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASES, UTILITY SPACES OR ABOVE CEILINGS, UON.
8. INSTALL ALL ROUGH ELECTRICAL. SCHEDULE INSPECTION WITH INSPECTOR PRIOR TO COVERING ROUGH ELECTRICAL TO ENSURE CORRECT PLACEMENT AND TYPE OF SERVICE FOR EACH OUTLET/EQUIPMENT.
9. INTERIOR FLUSH BOXES SHALL BE CODE GRADE STEEL, SECURELY FASTENED WITH APPROVED DEVICES TO STUDS OR MASONRY.
10. ALL LIGHTING SWITCHES, CONTROL STATIONS, AND WALL-MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED AT 42" A.F.F. (UON) AND SHALL NOT TO BE OBSTRUCTED BY ANY SHELVING OR DRAWS.
11. ALL LIGHTING SWITCHES, DIMMERS, AND CONTROL STATIONS SHALL BE FLUSH WITH THE WALL FINISH AND PROVIDED WITH WHITE COLOR COVER PLATE.
12. CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL ORIGINATE FROM THE SAME PANEL. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS (SUCH AS HANDLE TIE) THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUITS ORIGINATED, AS REQUIRED BY CEC 210.4.
13. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT-LEAST ONE LOCATION WITHIN THE PANEL BOARD OR OTHER POINT OF ORIGINATION, AS REQUIRED BY CEC 210.4(D).
14. FLEXIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS, PER CEC 400.8.
15. CONTRACTOR SHALL VERIFY WITH LIGHTING FIXTURE'S MANUFACTURER, FOR SPECIFICATION OF THE FIXTURE'S POWER SUPPLY AND DIMMING DRIVER. PROVIDE MAGNETIC-LOW-VOLTAGE TYPE DIMMER FOR FIXTURES WITH MAGNETIC-LOW-VOLTAGE DRIVER. PROVIDE ELECTRONIC-LOW-VOLTAGE TYPE DIMMER FOR FIXTURES WITH ELECTRONIC-LOW-VOLTAGE DRIVER. PROVIDE 0-10V TYPE DIMMER FOR FIXTURES WITH 0-10V DIMMING DRIVER.
16. EXIT SIGNS AND BUGEYES EMERGENCY FIXTURES SHALL BE PROVIDED WITH UN-SWITCHED CIRCUIT FROM THE SAME LIGHTING BRANCH CIRCUIT SERVING THE GENERAL LIGHTING FIXTURES IN THE SAME AREA.
17. LIGHTING FIXTURES WITH EMERGENCY BATTERY BACK UP SHALL BE PROVIDED WITH BOTH SWITCHED AND UN-SWITCHED CIRCUITS. THE UN-SWITCHED CIRCUIT SHALL BE FROM THE SAME BRANCH CIRCUIT POWERING THE GENERAL LIGHTING FIXTURES IN THE SAME AREA. THE EMERGENCY BATTERY BACK-UP DRIVERS/UNITS SHALL BE WIRED PER THE MANUFACTURER'S REQUIREMENTS IN ORDER TO AUTOMATICALLY TURN ON THE FIXTURE UPON THE POWER FAILURE, REGARDLESS OF THE STATUS OF THE LIGHTING CONTROLS.
18. EMERGENCY LIGHT FIXTURES SHALL BE PROVIDED, ADJUSTED, AND AIMED TO ACHIEVE A MINIMUM OF 1 FOOT-CANDLE EMERGENCY ILLUMINATION THROUGHOUT THE PATH OF EGRESS. PROVIDE ADDITIONAL BUGEYES EMERGENCY FIXTURES, WHERE NEEDED, TO SATISFY THE MINIMUM REQUIREMENTS.
19. TEST FOR ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS, POWERED BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONALLY REQUIRED EMERGENCY SYSTEMS, SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD AND OAR TO ENSURE COMPLIANCE WITH CODE AND STANDARDS. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COST ASSOCIATED WITH EITHER PRE-HOURS OR AFTER HOURS SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH SYSTEMS SHALL OCCUR PRIOR TO THE ISSUANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OR FINAL APPROVAL OF THE PROJECT. APPROVED DATE: _____ APPROVED BY: _____
20. PROVIDE BRANCH CIRCUIT WIRING FROM PANEL BOARDS TO LIGHTING CONTROL DEVICES AND LIGHTING FIXTURES. REFER TO THE FLOOR PLAN FOR LIGHTING ZONES, BRANCH CIRCUIT NUMBERS, AND PANEL NAME. REFER TO LIGHTING CONTROL DETAIL DRAWINGS E7-1 AND E7-2 FOR THE GENERAL LIGHTING CONTROL DEVICE SYMBOLS, SPECIFICATIONS, AND TYPICAL WIRING DIAGRAMS.
21. FOR LIGHTING FIXTURES WITH 0-10V TYPE DIMMING DRIVER, PROVIDE ADDITIONAL OF 2#14AWG THHN/THWN (GRAY AND VIOLET COLOR) WIRES FORM THE 0-10V DIMMING RELAY (OR WALL MOUNTED LINE-VOLTAGE DIMMER) TO THE RESPECTING LIGHTING FIXTURE(S) FOR THE DIMMING CONTROL.

## KEYNOTES NOTES:

1. PROVIDE BRANCH CIRCUITS FROM THE PANEL BOARD TO LIGHTING CONTROL DEVICES AND LIGHTING FIXTURES. REFER TO THE FLOOR PLAN FOR LIGHTING ZONES, BRANCH CIRCUIT NUMBERS, AND PANEL NAME. REFER TO LIGHTING CONTROL DETAIL DRAWINGS E7-1 AND E7-2 FOR THE GENERAL LIGHTING CONTROL DEVICE SYMBOLS, SPECIFICATIONS, AND TYPICAL WIRING DIAGRAMS.
2. "HLA-10e" INDICATES: PANEL "HLA", BRANCH CIRCUIT "1", LIGHTING ZONE "e".
3. PROVIDE LOW-VOLTAGE WIRING FROM THE LOW-VOLTAGE LIGHTING CONTROL STATIONS TO THE RESPECTIVE ROOM CONTROLLER, PER THE MANUFACTURER REQUIREMENTS. PROGRAM THE LIGHTING CONTROL STATION'S BUTTONS TO CONTROL THE DESIGNATED LIGHTING ZONE(S). PROVIDE PROGRAMING TO ALLOW ANY BUTTON OF ANY LOW-VOLTAGE LIGHTING CONTROL STATION TO FUNCTION AS AN OVERRIDE SWITCH, WHEN PUSHED AFTER THE WORKING HOURS. THE OVERRIDE SHALL ALLOW THE LIGHTING CONTROL SYSTEM TO GO BACK TO ITS NORMAL FUNCTIONS FOR A MAXIMUM OF 2 HOURS.
4. PROVIDE LOW-VOLTAGE WIRING FROM THE LOW-VOLTAGE LIGHTING OCCUPANCY SENSOR TO THE RESPECTIVE ROOM CONTROLLER, PER THE MANUFACTURER REQUIREMENTS. PROVIDE PROGRAMING AT THE LIGHTING CONTROL SYSTEM TO AUTOMATICALLY DIM THE HALLWAYS AND CORRIDORS LIGHT FIXTURES TO AT LEAST 50 PERCENT BRIGHTNESS, WHEN THE AREA IS UNOCCUPIED. THE HALLWAYS AND CORRIDORS LIGHTING FIXTURES SHALL BE TURNED OFF AFTER THE WORKING HOURS, BASED ON A 365 DAYS SCHEDULE AT LIGHTING CONTROL SYSTEM.
5. PROVIDE AN ADDITIONAL 1#12AWG HOT (UNSWITCHED) CIRCUIT TO ALL EXIT-SIGNS/BUG-EYES AND LIGHTING FIXTURES WITH EMERGENCY BATTERIES AND CONNECT THE HOT CIRCUIT TO THE FIXTURE'S EMERGENCY BATTERY UNITS, PER MANUFACTURER REQUIREMENTS. CIRCUIT NUMBER AS INDICATED. THE HOT CIRCUIT SHALL NOT BE SWITCHED BY LIGHTING SWITCH/DIMMER, NOR BY THE LIGHTING CONTROL PANEL.
6. PROVIDE AND INSTALL LIGHTING CONTROL PANEL (LCP). VERIFY EXACT LOCATION WITH P.M.
7. ALL EXTERIOR LIGHTING FIXTURES SHALL BE PROVIDED WITH NEW CIRCUIT AND ROUTED TROUGH THE ON/OFF RELAYS OF THE NEW LIGHTING CONTROL PANEL (LCP). REFER TO THE LIGHTING PLAN AND SITE PLAN FOR THE PANEL NAME, CIRCUIT NUMBERS, AND LIGHTING ZONES. PROVIDE PROGRAMING TO CONTROL THE EXTERIOR LIGHTING, BASED ON A 365 DAYS SCHEDULING AT LCP'S ASTRONOMICAL TIME CLOCK.
8. PROVIDE 3-WAY TOGGLE SWITCHES TO CONTROL THE LIGHTING FIXTURES AT THE HALLWAY 110 AND PROVIDE TOGGLE SWITCH FOR ONE OF THE LIGHTING FIXTURES AT SHIPPING/RECEIVING AREA. LIGHTING FIXTURES AROUND THE ELECTRICAL PANELS AND ELECTRICAL EQUIPMENT SHALL NOT BE CONTROLLED BY TIME CLOCK, OCCUPANCY SENSOR, OR ANY OTHER AUTOMATIC LIGHTING CONTROL DEVICES, AS THESE FIXTURES PROVIDE THE REQUIRED GENERAL LIGHTING FOR MAINTENANCE AND OPERATIONAL TASKS ON THE ELECTRICAL PANELS/EQUIPMENT.
9. ALL ELECTRICAL WIRING AND RACEWAY INSTALLATIONS (INCLUDING: CONDUITS, CONDULETS, COUPLINGS, CONNECTORS, BOXES, ... ETC.) AND ALL LINE-VOLTAGE AND LOW-VOLTAGE ELECTRICAL DEVICES AND EQUIPMENT (INCLUDING: SWITCHES, OUTLETS, DISCONNECT SWITCHES, CONTROL DEVICES, ... ETC.), WHICH ARE TO BE INSTALLED WITHIN THE CULTIVATION ROOMS, AT OR LOWER THAN 8-FEET FROM THE FINISHED FLOOR, SHALL BE WET-LOCATION LISTED OR SHALL BE INSTALLED WITHIN A WET-LOCATION LISTED ENCLOSURE/BOX AND COVER.
FOR THE ABOVE-MENTIONED INSTALLATIONS NEMA-3R OR IP-65 RATING ARE NOT ACCEPTABLE. THE INSTALLATIONS SHALL BE RATED AS SUCH TO PROVIDE PROTECTION AGAINST STRONG JETS OF WATER FROM ALL DIRECTIONS, THEREFORE IT SHALL BE NEMA-4, IP-66, OR RATED FOR HIGHER DEGREE PF WATER-RESISTANCE.
THE CULTIVATION ROOMS THAT SHALL COMPLY WITH THE ABOVE-MENTIONED REQUIREMENTS, ARE THE GROW ROOMS, THE VEG. ROOMS, AND THE MOTHER ROOMS.
10. REFER TO THE GROW (HORTICULTURE) LIGHTING CONTROL DETAILS DRAWING, SHEET E7-3, FOR THE GROW LIGHTING POWER RECEPTACLES, CONTROL SYSTEM COMPONENTS/SPECIFICATIONS, AND TYPICAL WIRING DIAGRAM IN GROW, VEG., CLONE, AND MOTHER ROOMS.
11. PROVIDE WALL MOUNTED, WEATHERPROOF (NEMA-3R) RATED, 100AS/70AF, 2P, FUSED DISCONNECT SWITCH AND A 0.75" CONDUIT WITH 2#4AWG THHN/THWN CU + 1#8 CU (GROUND) BRANCH CIRCUIT HOME RUN. PANEL NAME AND CIRCUIT NUMBERS AS INDICATED. TYPICAL FOR ALL TYPE "DH 876" DEHUMIDIFIER UNITS.
12. THE EXISTING EXTERIOR LIGHTING FIXTURES ARE TO BE SUPPLIED BY NEW 277V, 1PH BRANCH CIRCUITS. REPLACE THE LIGHTING FIXTURES' POWER SUPPLY, AS NEEDED, FOR THE NEW CIRCUITS. TYPICAL FOR THE EXISTING EXTERIOR WALL PACKS AND POLE MOUNT LIGHTING FIXTURES.
13. LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES THAT ARE TO BE LOCATED WITHIN THE EXTRACTION BOOTH SHALL TO BE PROVIDED BY THE BOOTH MANUFACTURER AS PART OF THE BOOTH ASSEMBLY/PARTS. ALL THE ELECTRICAL INSTALLATIONS WITHIN THE EXTRACTION BOOTH SHALL BE EXPLOSION PROOF RATED FOR CID1 HAZARDOUS AREA.

FIRST FLOOR LIGHTING PLAN — SCALE: 1/8" = 1'-0" — 1

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

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STAMP

REGISTERED PROFESSIONAL ENGINEER — ALEJANDRO M. MEZQUITA — No. 19332 — Exp. 12/31/22 — ELECTRICAL — STATE OF CALIFORNIA

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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

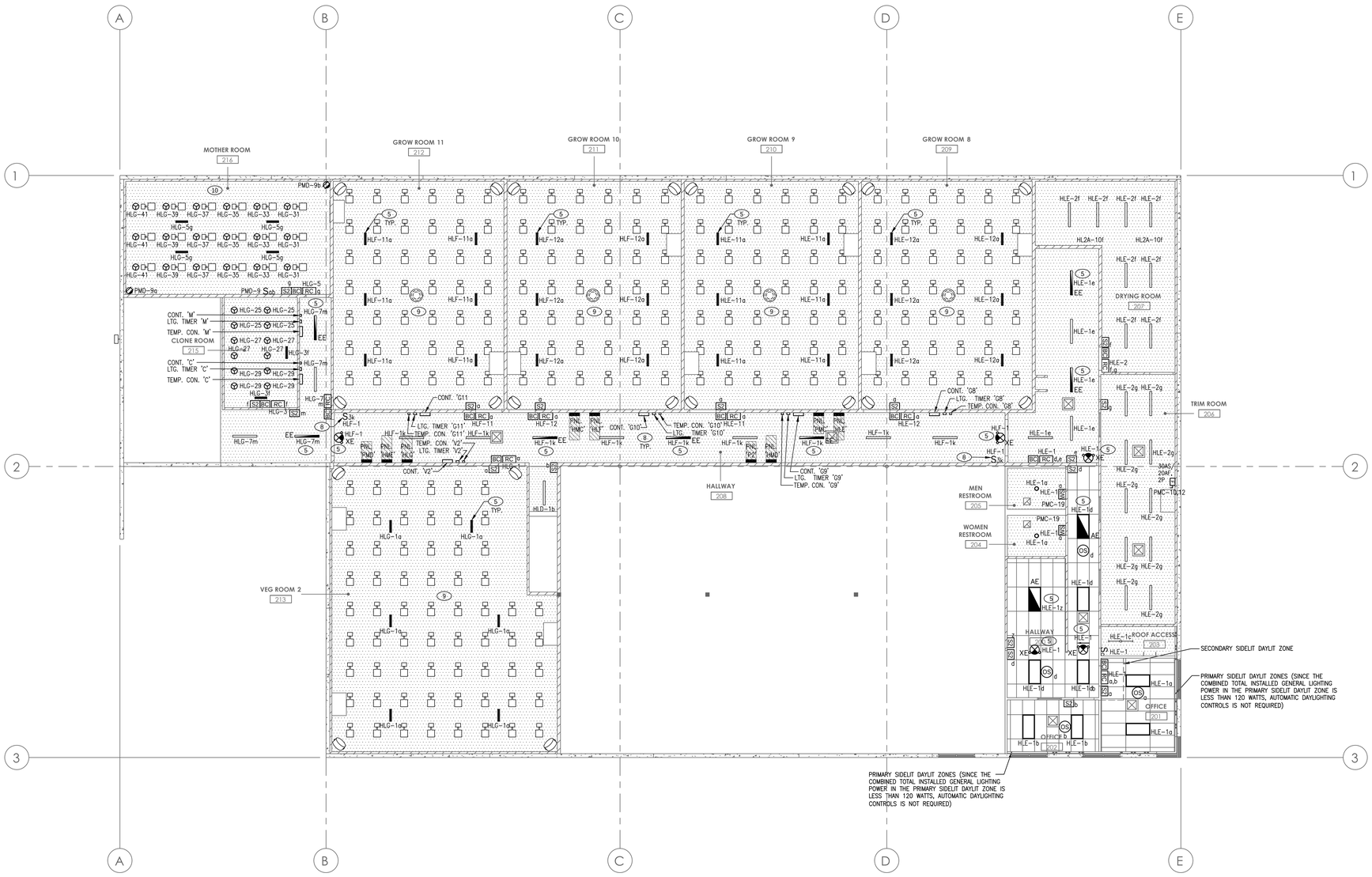
FIRST FLOOR LIGHTING PLAN

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

04/15/2021 PLAN CHECK SUBMITTAL SET

SHEET
E6-1




## GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH CEC [THE CALIFORNIA ELECTRICAL CODE, 2019 EDITION, AS AMENDED BY THE CITY].
2. ALL ELECTRICAL INSTALLATION AND WIRING ARE REQUIRED TO BE PERMITTED AND INSPECTED FOR COMPLIANCE WITH CEC AND THE CITY.
3. IF DRAWINGS ARE INCORRECT FROM ACTUAL SITE CONDITIONS, ELECTRICAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER OF RECORD AND PROVIDE INFORMATION REFLECTING THE ACTUAL CONDITIONS.
4. VERIFY EXACT LOCATION, FOR ELECTRICAL PANEL IN FIELD. THERE SHALL BE A 4-FEET OF CLEAR WORKING SPACE IN FRONT OF 480/277V ELECTRICAL PANELS AND ELECTRICAL EQUIPMENT. THE REQUIRED CLEARANCE WILL BE 3-FEET FOR 208/120V ELECTRICAL PANELS AND ELECTRICAL EQUIPMENT. REFER TO CEC 110.26(A)(1) [ARTICLE 110, SECTION 110.26(A)(1)].
5. NO PIPING, DUCTS, OR ANY OTHER INSTALLATION FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE SPACE ABOVE THE ELECTRICAL EQUIPMENT, AS REQUIRED BY CEC 110.26(E)(1).
6. LABEL ALL BREAKERS ON SERVICE SWITCHBOARD AND INSTALL PANEL SCHEDULE TO ALL PANEL BOARD'S DOOR.
7. CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASES, UTILITY SPACES OR ABOVE CEILINGS, UON.
8. INSTALL ALL ROUGH ELECTRICAL. SCHEDULE INSPECTION WITH INSPECTOR PRIOR TO COVERING ROUGH ELECTRICAL TO ENSURE CORRECT PLACEMENT AND TYPE OF SERVICE FOR EACH OUTLET/EQUIPMENT.
9. INTERIOR FLUSH BOXES SHALL BE CODE GRADE STEEL, SECURELY FASTENED WITH APPROVED DEVICES TO STUDS OR MASONRY.
10. ALL LIGHTING SWITCHES, CONTROL STATIONS, AND WALL-MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED AT 42" A.F.F. (UON) AND SHALL NOT TO BE OBSTRUCTED BY ANY SHELVING OR DRAWS.
11. ALL LIGHTING SWITCHES, DIMMERS, AND CONTROL STATIONS SHALL BE FLUSH WITH THE WALL FINISH AND PROVIDED WITH STAINLESS STEEL COVER PLATE.
12. CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL ORIGINATE FROM THE SAME PANEL. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS (SUCH AS HANDLE TIE) THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUITS ORIGINATED, AS REQUIRED BY CEC 210.4.
13. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT-LEAST ONE LOCATION WITHIN THE PANEL BOARD OR OTHER POINT OF ORIGINATION, AS REQUIRED BY CEC 210.4(D).
14. FLEXIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS, PER CEC 400.8.
15. CONTRACTOR SHALL VERIFY WITH LIGHTING FIXTURE'S MANUFACTURER, FOR SPECIFICATION OF THE FIXTURE'S POWER SUPPLY AND DIMMING DRIVER. PROVIDE MAGNETIC-LOW-VOLTAGE TYPE DIMMER FOR FIXTURES WITH MAGNETIC-LOW-VOLTAGE DRIVER. PROVIDE ELECTRONIC-LOW-VOLTAGE TYPE DIMMER FOR FIXTURES WITH ELECTRONIC-LOW-VOLTAGE DRIVER. PROVIDE 0-10V TYPE DIMMER FOR FIXTURES WITH 0-10V DIMMING DRIVER.
16. EXIT SIGNS AND BUGEYES EMERGENCY FIXTURES SHALL BE PROVIDED WITH UN-SWITCHED CIRCUIT FROM THE SAME LIGHTING BRANCH CIRCUIT SERVING THE GENERAL LIGHTING FIXTURES IN THE SAME AREA.
17. LIGHTING FIXTURES WITH EMERGENCY BATTERY BACK UP SHALL BE PROVIDED WITH BOTH SWITCHED AND UN-SWITCHED CIRCUITS. THE UN-SWITCHED CIRCUIT SHALL BE FROM THE SAME BRANCH CIRCUIT POWERING THE GENERAL LIGHTING FIXTURES IN THE SAME AREA. THE EMERGENCY BATTERY BACK-UP DRIVERS/UNITS SHALL BE WIRED PER THE MANUFACTURER'S REQUIREMENTS IN ORDER TO AUTOMATICALLY TURN ON THE FIXTURE UPON THE POWER FAILURE, REGARDLESS OF THE STATUS OF THE LIGHTING CONTROLS.
18. EMERGENCY LIGHT FIXTURES SHALL BE PROVIDED, ADJUSTED, AND AIMED TO ACHIEVE A MINIMUM OF 1 FOOT-CANDLE EMERGENCY ILLUMINATION THROUGHOUT THE PATH OF EGRESS. PROVIDE ADDITIONAL BUGEYES EMERGENCY FIXTURES, WHERE NEEDED, TO SATISFY THE MINIMUM REQUIREMENTS.
19. TEST FOR ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS, POWERED BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONALLY REQUIRED EMERGENCY SYSTEMS, SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD AND OAR TO ENSURE COMPLIANCE WITH CODE AND STANDARDS. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COST ASSOCIATED WITH EITHER PRE-HOURS OR AFTER HOURS SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH SYSTEMS SHALL OCCUR PRIOR TO THE ISSUANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OR FINAL APPROVAL OF THE PROJECT. APPROVED DATE: _____ APPROVED BY: _____
20. PROVIDE BRANCH CIRCUIT WIRING FROM PANEL BOARDS TO LIGHTING CONTROL DEVICES AND LIGHTING FIXTURES. REFER TO THE LIGHTING PLAN AND CONTROL DETAILS FOR THE LIGHTING CONTROL ZONES, BRANCH CIRCUIT NUMBERS, PANEL NAME, AND REQUIRED CONTROL WIRING. THE MINIMUM SIZE WIRE FOR 15A AND 20A RATED BRANCH CIRCUIT AND EQUIPMENT GROUND CONDUCTORS SHALL BE #12AWG THHN/THWN CU. THE MINIMUM SIZE WIRE FOR 25A AND 30A RATED BRANCH CIRCUIT AND EQUIPMENT GROUND CONDUCTORS SHALL BE #10AWG THHN/THWN CU. THE CONTRACTOR IS RESPONSIBLE TO UPSIZE THE CONDUCTORS, IF REQUIRED BY CEC TABLE 310.15(B)(3)(A), WHERE MORE THAN THREE CURRENT-CARRYING CONDUCTORS ARE INSTALLED WITHIN ONE RACEWAY OR CABLE.
21. FOR LIGHTING FIXTURES WITH 0-10V TYPE DIMMING DRIVER, PROVIDE ADDITIONAL OF 2#14AWG THHN/THWN (GRAY AND VIOLET COLOR) WIRES FORM THE 0-10V DIMMING RELAY (OR WALL MOUNTED LINE-VOLTAGE DIMMER) TO THE RESPECTING LIGHTING FIXTURE(S) FOR THE DIMMING CONTROL.

## KEYNOTES NOTES:

1. PROVIDE BRANCH CIRCUITS FROM THE PANEL BOARD TO LIGHTING CONTROL DEVICES AND LIGHTING FIXTURES. REFER TO THE FLOOR PLAN FOR LIGHTING ZONES, BRANCH CIRCUIT NUMBERS, AND PANEL NAME. REFER TO LIGHTING CONTROL DETAIL DRAWINGS E-5.21 AND E-5.22 FOR LIGHTING CONTROL DEVICE SYMBOLS, SPECIFICATIONS, AND TYPICAL WIRING DIAGRAMS.
2. "HL2A-9a" INDICATES: PANEL "HL2A", BRANCH CIRCUIT "9", LIGHTING ZONE "a".
3. PROVIDE LOW-VOLTAGE WIRING FROM THE LOW-VOLTAGE LIGHTING CONTROL STATIONS TO THE RESPECTIVE ROOM CONTROLLER, PER THE MANUFACTURER REQUIREMENTS. PROGRAM THE LIGHTING CONTROL STATION'S BUTTONS TO CONTROL THE DESIGNATED LIGHTING ZONE(S). PROVIDE PROGRAMING TO ALLOW ANY BUTTON OF ANY LOW-VOLTAGE LIGHTING CONTROL STATION TO FUNCTION AS AN OVERRIDE SWITCH, WHEN PUSHED AFTER THE WORKING HOURS. THE OVERRIDE SHALL ALLOW THE LIGHTING CONTROL SYSTEM TO GO BACK TO ITS NORMAL FUNCTIONS FOR A MAXIMUM OF 2 HOURS.
4. PROVIDE LOW-VOLTAGE WIRING FROM THE LOW-VOLTAGE LIGHTING OCCUPANCY SENSOR TO THE RESPECTIVE ROOM CONTROLLER, PER THE MANUFACTURER REQUIREMENTS. PROVIDE PROGRAMING AT THE LIGHTING CONTROL SYSTEM TO AUTOMATICALLY DIM THE HALLWAYS AND CORRIDORS LIGHT FIXTURES TO AT LEAST 50 PERCENT BRIGHTNESS, WHEN THE AREA IS UNOCCUPIED. THE HALLWAYS AND CORRIDORS LIGHTING FIXTURES SHALL BE TURNED OFF AFTER THE WORKING HOURS, BASED ON A 365 DAYS SCHEDULE AT LIGHTING CONTROL SYSTEM.
5. PROVIDE AN ADDITIONAL 1#12AWG HOT (UNSWITCHED) CIRCUIT TO ALL EXIT-SIGNS/BUG-EYES AND LIGHTING FIXTURES WITH EMERGENCY BATTERIES AND CONNECT THE HOT CIRCUIT TO THE FIXTURE'S EMERGENCY BATTERY UNITS, PER MANUFACTURER REQUIREMENTS. CIRCUIT NUMBER AS INDICATED. THE HOT CIRCUIT SHALL NOT BE SWITCHED BY LIGHTING SWITCH/DIMMER, NOR BY THE LIGHTING CONTROL PANEL.
6. PROVIDE TOGGLE SWITCH/ES TO CONTROL THE ELECTRICAL ROOM'S LIGHTING FIXTURES. FIXTURES AROUND THE ELECTRICAL PANELS AND ELECTRICAL EQUIPMENT SHALL NOT BE CONTROLLED BY TIME CLOCK, OCCUPANCY SENSOR, OR ANY OTHER AUTOMATIC CONTROL SYSTEMS, AS THESE FIXTURES PROVIDE THE REQUIRED GENERAL LIGHTING FOR THE MAINTENANCE AND OPERATION TASKS ON THE ELECTRICAL PANELS/EQUIPMENT.
7. ALL ELECTRICAL WIRING AND RACEWAY INSTALLATIONS (INCLUDING: CONDUITS, CONDULETS, COUPLINGS, CONNECTORS, BOXES, ... ETC.) AND ALL LINE-VOLTAGE AND LOW-VOLTAGE ELECTRICAL DEVICES AND EQUIPMENT (INCLUDING: SWITCHES, OUTLETS, DISCONNECT SWITCHES, CONTROL DEVICES, ... ETC.), WHICH ARE TO BE INSTALLED WITHIN THE CULTIVATION ROOMS, AT OR LOWER THAN 8-FEET FROM THE FINISHED FLOOR, SHALL BE WET-LOCATION LISTED OR SHALL BE INSTALLED WITHIN A WET-LOCATION LISTED ENCLOSURE/BOX AND COVER.
FOR THE ABOVE-MENTIONED INSTALLATIONS NEMA-3R OR IP-65 RATING ARE NOT ACCEPTABLE. THE INSTALLATIONS SHALL BE RATED AS SUCH TO PROVIDE PROTECTION AGAINST STRONG JETS OF WATER FROM ALL DIRECTIONS, THEREFORE IT SHALL BE NEMA-4, IP-66, OR RATED FOR HIGHER DEGREE PF WATER-RESISTANCE.
THE CULTIVATION ROOMS THAT SHALL COMPLY WITH THE ABOVE-MENTIONED REQUIREMENTS, ARE THE GROW ROOMS, THE VEG. ROOMS, AND THE MOTHER ROOMS.
8. PROVIDE 3-WAY TOGGLE SWITCHES TO CONTROL THE LIGHTING FIXTURES AT THE HALLWAY 208. LIGHTING FIXTURES AROUND THE ELECTRICAL PANELS AND ELECTRICAL EQUIPMENT SHALL NOT BE CONTROLLED BY TIME CLOCK, OCCUPANCY SENSOR, OR ANY OTHER AUTOMATIC LIGHTING CONTROL DEVICES, AS THESE FIXTURES PROVIDE THE REQUIRED GENERAL LIGHTING FOR MAINTENANCE AND OPERATIONAL TASKS ON THE ELECTRICAL PANELS/EQUIPMENT.
9. ELECTRICAL INSTALLATION REQUIRED FOR GROW LIGHTING FIXTURE, GROW LIGHTING CONTROL SYSTEM, GROW FANS, AND DEHUMIDIFIERS FOR THIS ROOM IS SIMILAR TO THE FIRST FLOOR GROW/VEG. ROOMS. REFER TO THE FIRST FLOOR LIGHTING PLAN, SHEET E6-1, FOR FOR ELECTRICAL INSTALLATION AND TO THE PANEL SCHEDULES, SHEETS E3-1 & E3-2, FOR BRANCH CIRCUIT NUMBERS AND PANEL BOARDS.
10. REFER TO LIGHTING CONTROL DETAIL DRAWING, E7-3, FOR THE GROW (CULTIVATION) LIGHTING POWER RECEPTACLES AND GROW LIGHTING CONTROL DEVICES, SPECIFICATIONS, AND TYPICAL WIRING DIAGRAM.

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# FRESHMADE GROW
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BALDWIN PARK, CA 91706

SECOND FLOOR LIGHTING PLAN

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET

E6-2

04/15/2021 PLAN CHECK SUBMITTAL SET

SECOND FLOOR LIGHTING PLAN — SCALE: 1/8" =1'-0" — 1

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

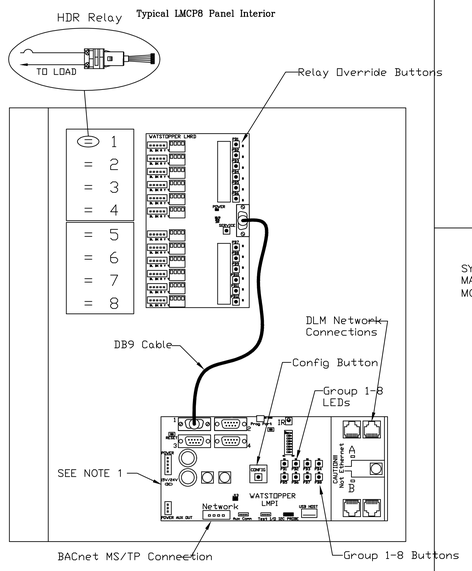
# WATTSTOPPER -DLM LIGHTING CONTROL SYSTEM AND LINE VOLTAGE SWITCH/DIMMER DETAILS

(FOR FULL OPERATIONAL DETAILS, ADJUSTMENTS AND MORE FEATURES OF THE PRODUCT, SEE THE DLM SYSTEM INSTALLATION GUIDE AT WWW.WATTSTOPPER.COM)

## 8 RELAY CONTROL PANEL

SYMBOL: LCP
MANUFACTURER: WATTSTOPPER
MODEL #: LMCP-8

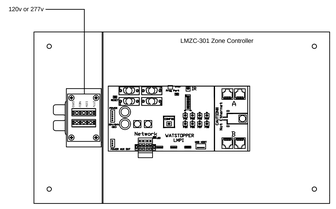
LMCP-8 UNITS HAVE 8 INDIVIDUAL SPST RELAYS, EACH OF WHICH ARE CAPABLE OF CONTROLLING A 20A, 120/277V, 50/60 HZ INPUT CIRCUIT. THE PANEL ALSO HAS 4-CAT 5E DLM PORTS, AND PROVIDE TWO SEPARATE NETWORKS THAT EACH PROVIDE 250MA 24VDC TO POWER DLM CAT 5E DEVICES.




NOTE 1: THE RELAY CONTROL PANEL SHALL BE PROVIDED WITH TIMECLOCK/ZONE CONTROLLER MODEL #: LMZC-301

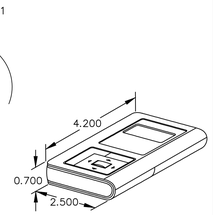
## TIMECLOCK/ZONE CONTROLLER

SYMBOL: TC
MANUFACTURER: WATTSTOPPER
MODEL #: LMZC-301




## WIRELESS CONFIGURATION TOOL

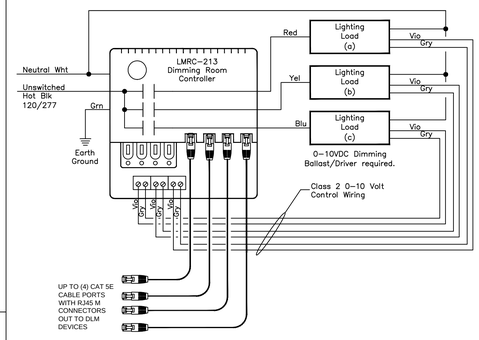
SYMBOL: CT
MANUFACTURER: WATTSTOPPER
MODEL #: LMCT-100

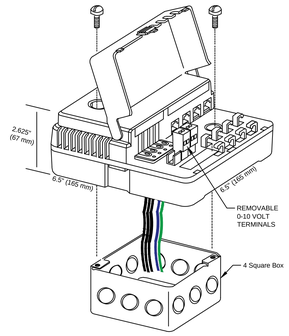



NOTE 1: INCLUDE AT LEAST 1 LMCT-100 ON EVERY PROJECT.

## DLM 0-10 VOLT DIMMING ROOM CONTROLLER

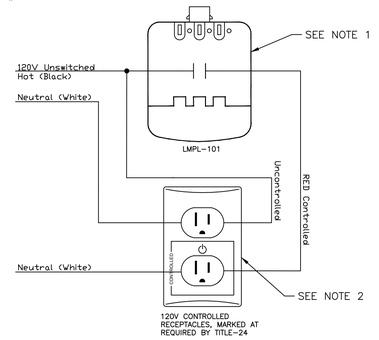
SYMBOL: RC
MANUFACTURER: WATTSTOPPER
MODEL #: LMRC-110 & 211 & 212 & 213

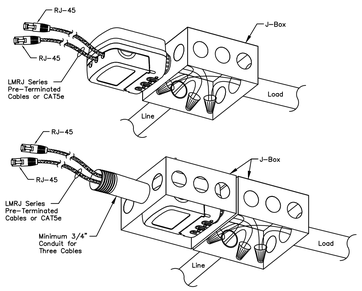



## DLM PLUG LOAD CONTROLLER

SYMBOL: PL
MANUFACTURER: WATTSTOPPER
MODEL #: LMPL-101 & LMPL-201



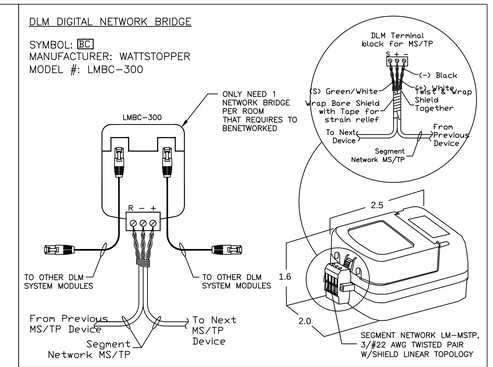




NOTE 1: ONLY (4) LMPL-101's CAN BE USED IN ONE ROOM. IF CONTROLLED RECEPTACLE CIRCUITS EXCEEDED 4, USE LMPL-201s.

NOTE 1: BREAK-OFF REMOVAL ON HOT SIDE REQUIRED FOR SPLIT-CIRCUIT WIRING.

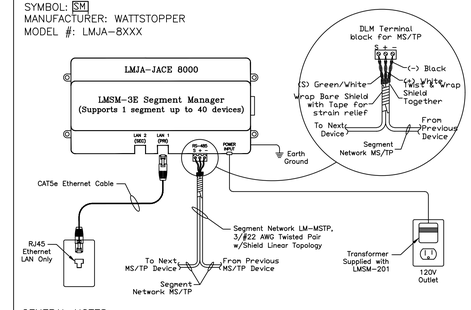
## DLM DIGITAL NETWORK BRIDGE

SYMBOL: BC
MANUFACTURER: WATTSTOPPER
MODEL #: LMBC-300




## DLM SEGMENT MANAGER FOR DEMAND RESPONSE

SYMBOL: SM
MANUFACTURER: WATTSTOPPER
MODEL #: LMJA-8XXX




GENERAL NOTES:
1. REQUIRED LM-MSTP, 3/#22 AWG TWISTED PAIR W/SHIELD LINEAR TOPOLOGY.
2. UP TO 40 (MAX) LMBC-300's PER SEGMENT.
3. LMSM-201 MS/TP PORT CONNECTED IN THE MIDDLE OF THE SEGMENT.
4. BACNET/IP INTEGRATION BY SEGMENT MANAGER EXPORT TABLE ONLY.

## LOW VOLTAGE DIMMER SWITCHES, TO BE WALL MOUNTED AT 46" AFF, UON.

SYMBOL: S2
MANUF.: WATTSTOPPER
MODEL #: LMSW-102

| OPTIONAL ENGRAVING | ZONES CONTROLLED | BUTTON PROGRAM | FUNCTION |
|---|---|---|---|
| RAISE A | a | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER A | a | OFF/LOWER | PRESS & HOLD FOR LOWER |

SYMBOL: S4
MANUF.: WATTSTOPPER
MODEL #: LMSW-104

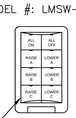
| OPTIONAL ENGRAVING | ZONES CONTROLLED | BUTTON PROGRAM | FUNCTION |
|---|---|---|---|
| RAISE A | a | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER A | a | OFF/LOWER | PRESS & HOLD FOR LOWER |
| RAISE B | b | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER B | b | OFF/LOWER | PRESS & HOLD FOR LOWER |

SYMBOL: S5
MANUF.: WATTSTOPPER
MODEL #: LMSW-105

NOTE: TO BE USED FOR SCENE CONTROL.

| OPTIONAL ENGRAVING | ZONES CONTROLLED | BUTTON PROGRAM | FUNCTION |
|---|---|---|---|
| 25% | a,b,c | a,b,c = 25% | TAP BUTTON FOR SCENE 1 |
| 50% | a,b,c | a,b,c = 50% | TAP BUTTON FOR SCENE 2 |
| 75% | a,b,c | a,b,c = 75% | TAP BUTTON FOR SCENE 3 |
| 100% | a,b,c | a,b,c = 100% | TAP BUTTON FOR SCENE 4 |
| RAISE / LOWER | a,b,c | RAISE LOWER | MANUALLY DIM SELECTED ZONE |

SYMBOL: S8
MANUF.: WATTSTOPPER
MODEL #: LMSW-108




PRESS AND HOLD FOR RAISE & LOWER, TAP FOR ON, TAP FOR OFF TYPICAL FOR ALL LOW VOLTAGE DIMMER SWITCHES MODEL #: LMSW & LMDM & LMDW SERIES

| OPTIONAL ENGRAVING | ZONES CONTROLLED | BUTTON PROGRAM | FUNCTION |
|---|---|---|---|
| ALL ON | a,b,c | ON ALL | PRESS & HOLD FOR RAISE |
| ALL OFF | a,b,c | OFF ALL | PRESS & HOLD FOR LOWER |
| RAISE A | a | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER A | a | OFF/LOWER | PRESS & HOLD FOR LOWER |
| RAISE B | b | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER B | b | OFF/LOWER | PRESS & HOLD FOR LOWER |
| RAISE C | c | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER C | c | OFF/LOWER | PRESS & HOLD FOR LOWER |

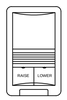
## LOW VOLTAGE DIMMER SWITCHES, WITH LED LIGHT LEVEL BAR GRAPH INDICATOR TO BE WALL MOUNTED AT 46" AFF, UON.

SYMBOL: D1
MANUF.: WATTSTOPPER
MODEL #: LMDM-101

| OPTIONAL ENGRAVING | ZONES CONTROLLED | BUTTON PROGRAM | FUNCTION |
|---|---|---|---|
| RAISE | a | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER | a | OFF/LOWER | PRESS & HOLD FOR LOWER |

## LOW VOLTAGE DIMMER SWITCHES, WITH INTEGRATED OCCUPANCY SENSOR TO BE WALL MOUNTED AT 46" AFF, UON.

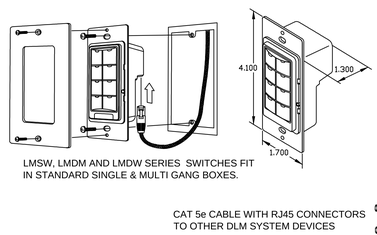
SYMBOL: DW
MANUF.: WATTSTOPPER
MODEL #: LMDW-102




| OPTIONAL ENGRAVING | ZONES CONTROLLED | BUTTON PROGRAM | FUNCTION |
|---|---|---|---|
| RAISE | a | ON/RAISE | PRESS & HOLD FOR RAISE |
| LOWER | a | ON/LOWER | PRESS & HOLD FOR LOWER |

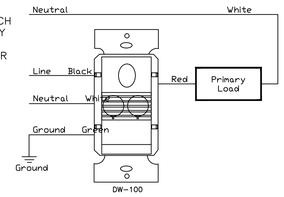
NOTE: THE DUAL TECH OCCUPANCY SENSOR RADIAL COVERAGE IS MAXIMUM OF 25'.

TYPICAL INSTALLATION DETAIL
LOW VOLTAGE DIMMER SWITCHES, MODEL #: LMSW & LMDM & LMDW SERIES

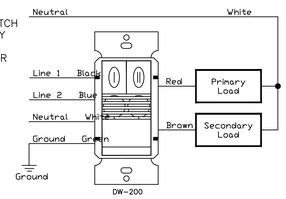



## LINE VOLTAGE SWITCH WITH INTEGRATED OCC. SENSOR AND LINE VOLTAGE SWITCH/DIMMER WITH OCC. SENSOR TO BE WALL MOUNTED AT 46" AFF, UON.

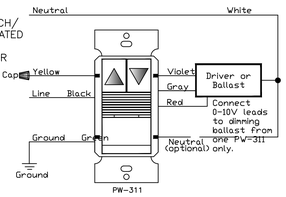
SYMBOL: WSa
LINE VOLTAGE 1-ZONE SWITCH WITH INTEGRATED OCCUPANCY SENSOR.
MANUFACTURER: WATTSTOPPER
MODEL #: DW-100




SYMBOL: WSa.b
LINE VOLTAGE 2-ZONES SWITCH WITH INTEGRATED OCCUPANCY SENSOR.
MANUFACTURER: WATTSTOPPER
MODEL #: DW-200

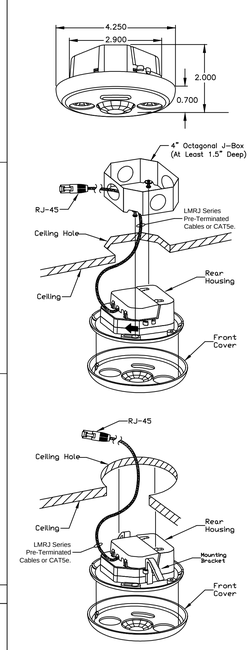



SYMBOL: WUa
LINE VOLTAGE 1-ZONE SWITCH/ 0-10V DIMMER WITH INTEGRATED OCCUPANCY SENSOR.
MANUFACTURER: WATTSTOPPER
MODEL #: PW-311




## DIGITAL DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR

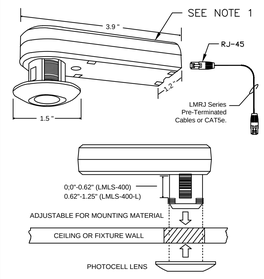
SYMBOL: DS
MANUFACTURER: WATTSTOPPER
MODEL #: LMDC-100




NOTE 1: THE CEILING MOUNT OCCUPANCY SENSOR MAX. RADIAL COVERAGE IS 16'

## CEILING MOUNT DAYLIGHT SENSOR

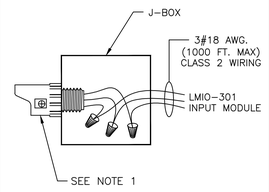
SYMBOL: LS
MANUFACTURER: WATTSTOPPER
MODEL #: LMLS-500




NOTE 1: ONE LMLS-500 IS SUFFICIENT FOR UP TO 3 DAYLIGHT ZONES IN A SPACE.

## SURFACE MOUNT ANOLOG OUTDOOR PHOTOCELL (0-200 FC)

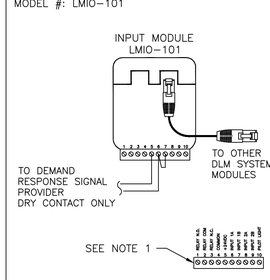
SYMBOL: PC
MANUFACTURER: WATTSTOPPER
MODEL #: LMPO-200




NOTE 1: MOUNT PHOTOCELL ON THE ROOF OR EXTERIOR WALL, FACING NORTH SKY.

## INPUT MODULE FOR DEMAND RESPONSE SIGNAL AND OTHER INPUT/OUTPUT INTERFACE FOR INTEGRATION OF THIRD PARTY DEVICES

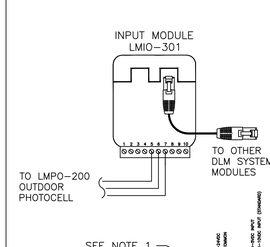
SYMBOL: IO
MANUFACTURER: WATTSTOPPER
MODEL #: LMIO-101




NOTE 1: DESCRIPTION OF THE INPUT MODULE 'LMIO-101' TERMINAL BLOCK.

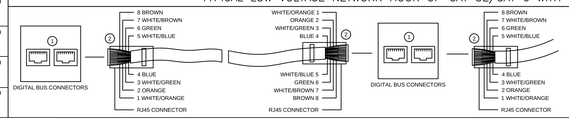
## INPUT MODULE FOR ANOLOG OUTDOOR PHOTOCELL

SYMBOL: PM
MANUFACTURER: WATTSTOPPER
MODEL #: LMIO-301




NOTE 1: DESCRIPTION OF THE INPUT MODULE 'LMIO-301' TERMINAL BLOCK.

## TYPICAL LOW VOLTAGE NETWORK HOOK UP CAT 5E/CAT 6 WITH RJ45 CONNECTORS IN B-PATTERN




KEY NOTES:
1. RJ45 DIGITAL BUS CONNECTORS ARE LOCATED ON EVERY DIGITAL DEVICE (DIGITAL DEVICES ARE DEFINED AS: RELAY PANELS, DIGITAL SWITCHES AND ALL DIGITAL ACCESSORIES).
2. RJ45 CONNECTORS USE THE SAME COLOR CODING AS ETHERNET, AND ARE MADE AS STRAIGHT THROUGH CABLES. CROSS OVER CABLES WILL CAUSE SYSTEM FAILURE. ALL CABLES SUPPLIED BY CONTRACTOR.

NOTES:
1. OPEN TOPOLOGY CAT. 5 PATCH CABLE WITH RJ45 CONNECTORS FROM DIGITAL DEVICE TO DIGITAL DEVICE.
2. REFER TO MANUFACTURERS INSTRUCTIONS FOR LONG DISTANCE RUNS BETWEEN DIGITAL DEVICES.
3. UP TO 1,000 FT TOTAL BUS LENGTH.
4. CRIMP AND TEST EACH CABLE WITH A LAN CIRCUIT TESTER PRIOR TO INSTALLATION.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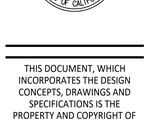



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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

LIGHTING CONTROL DETAILS

| REMARKS | DATE |
|---|---|
| PLAN CHECK SUBMITTAL SET | 04/15/2021 |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

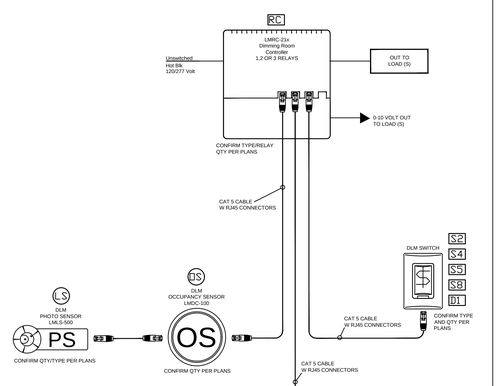
SHEET

E7-1

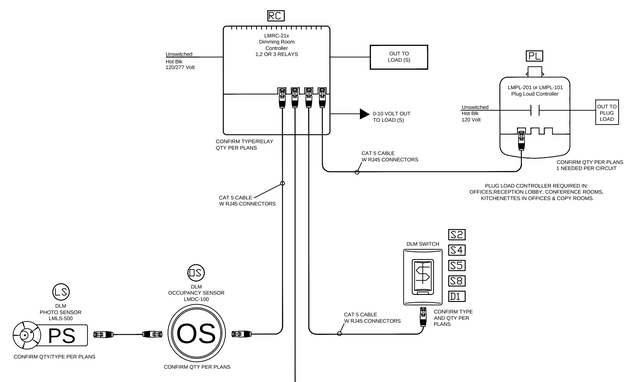
04/15/2021 PLAN CHECK SUBMITTAL SET

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

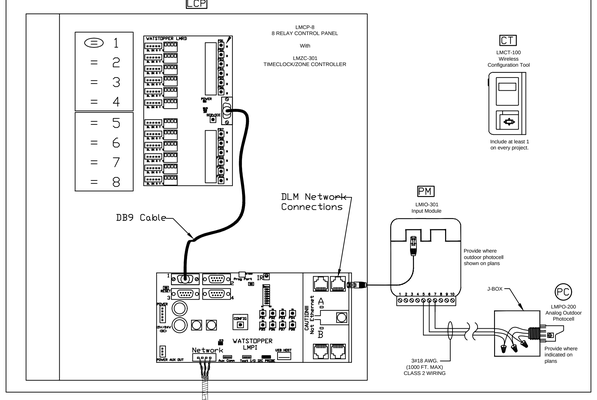
TYPICAL LIGHTING CONTROL SYSTEM FOR CLASSROOMS, CORRIDORS, HALLWAYS, STAIRWELLS

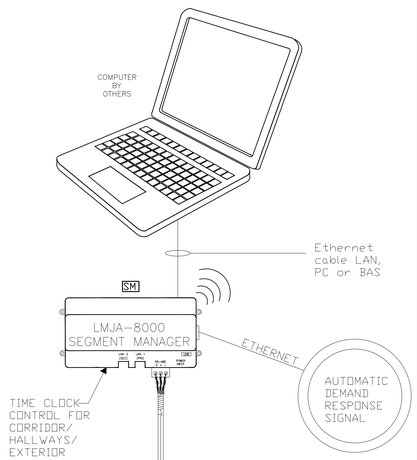



TYPICAL LIGHTING CONTROL SYSTEM IN OFFICES, OPEN OFFICE, CONFERENCE ROOMS, RECEPTION LOBBY, KITCHENETTE, COPY ROOMS.




LIGHTING CONTROL RELAY PANEL WITH ASTRONOMICAL TIME-CLOCK/ZONE-CONTROLLER, FOR AUTOMATIC SHOT-OFF. LIGHTING CONTROL PANEL TO CONTROL THE EXTERIOR LIGHTING AND INTERIOR LIGHTING CIRCUITS, WHERE INDICATED ON LIGHTING PLANS.




LIGHTING CONTROL RELAY PANEL SEQUENCE OF OPERATION:

| TYPE | OPERATION | MODEL NUMBER |
|---|---|---|
| 8-RELAY LIGHTING CONTROL PANEL | AUTO SHUT-OFF * | LMCP-8 |

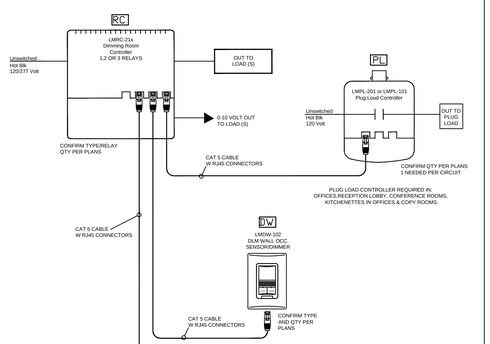
* LCP SHALL BE PROGRAMMED TO:
1- CLOSE THE LIGHTING RELAYS, DURING THE WORKING HOURS, AS SCHEDULED TO THE LCP'S ASTRONOMICAL TIME CLOCK.
2- OPEN THE LIGHTING RELAYS, DURING THE OFF-WORK HOURS. LCP SHALL OVERRIDE THE LIGHTING RELAYS, FOR THE MAXIMUM OF 2 HOURS, UPON SIGNAL FROM ANY CONTROL SWITCH/DIMMER STATION OR ANY OCCUPANCY/MOTION SENSOR. PROVIDE CONDUIT AND LOW VOLTAGE WIRING, AS REQUIRED PER LCP MANUFACTURER.
3- SEE DETAIL #2/ SHEET E.3 FOR LIGHTING CONTROL PANEL "LCP" – TYPICAL WIRING DIAGRAM.

TO ADDITIONAL DLM DEVICES

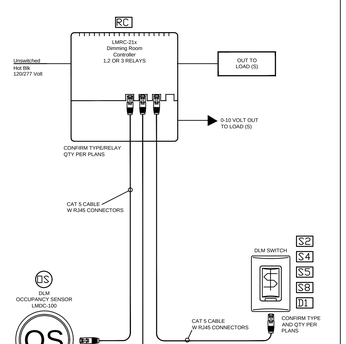
Segment Network MS/TP
3/#22 AWG Twisted Pair w/Shield
Linear Topology max 4000 ft

Segment Network MS/TP
3/#22 AWG Twisted Pair w/Shield
Linear Topology max 4000 ft

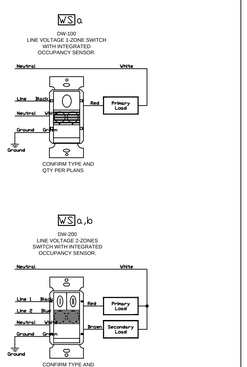
TYPICAL LIGHTING CONTROL SYSTEM FOR SMALLER PRIVATE OFFICES



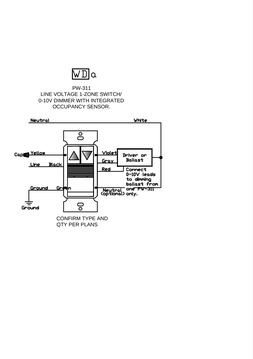

TYPICAL LIGHTING CONTROL SYSTEM FOR MULTI-STALL RESTROOMS, STORAGE ROOMS OVER 100 SQ FT




TYPICAL LIGHTING CONTROL SYSTEM FOR CLOSETS, STORAGE, JANITORS, RESTROOMS UNDER 100 SQ FT (ON/OFF)




TYPICAL LIGHTING CONTROL SYSTEM FOR PRIVATE RESTROOMS, STORAGE OVER 100 SQ FT




TO ADDITIONAL DLM DEVICES

Segment Network MS/TP
3/#22 AWG Twisted Pair w/Shield
Linear Topology max 4000 ft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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

LIGHTING CONTROL DETAILS

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

04/15/2021 PLAN CHECK SUBMITTAL SET

SHEET
E7-2

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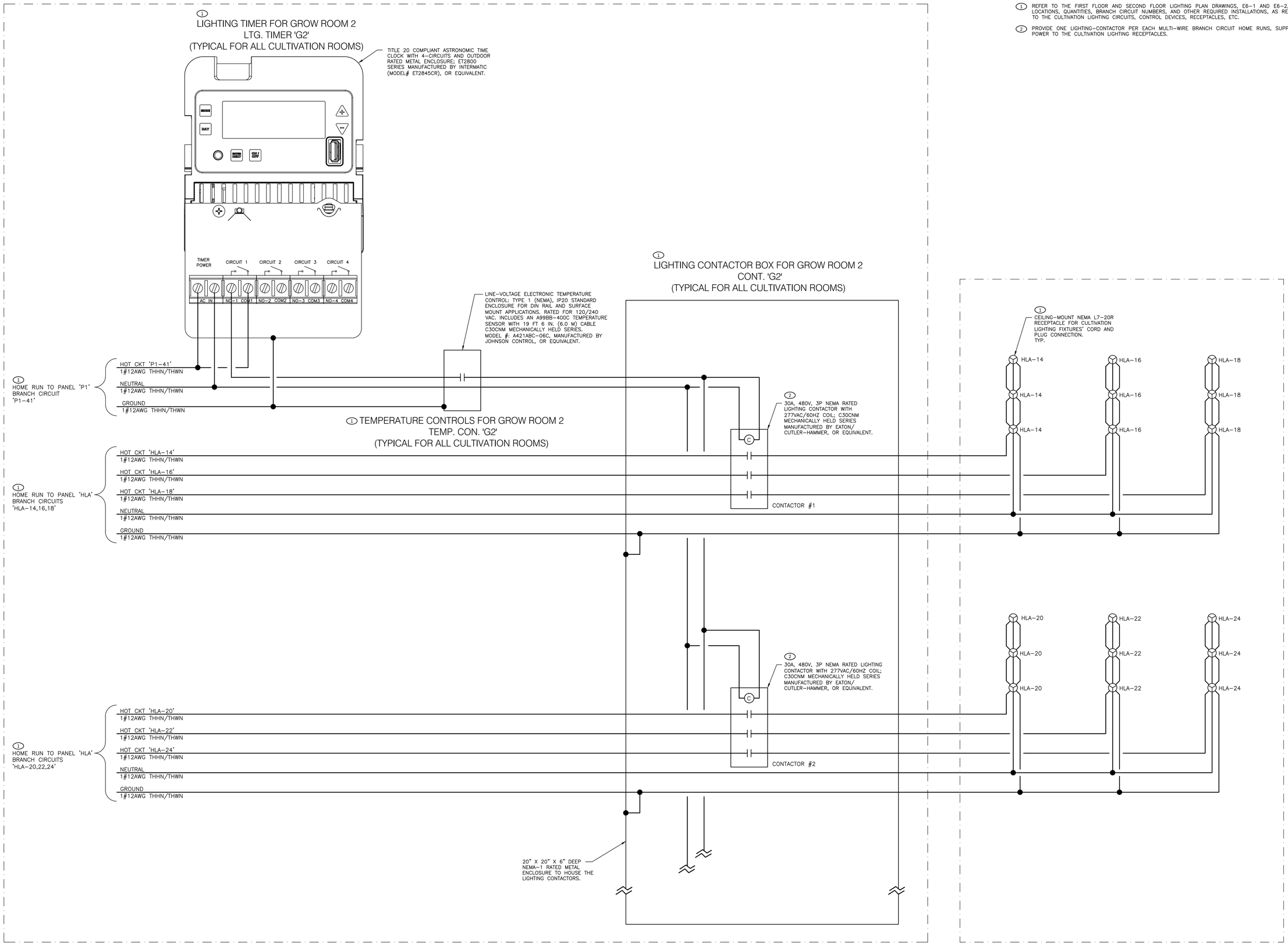
## KEYNOTES NOTES:

1. REFER TO THE FIRST FLOOR AND SECOND FLOOR LIGHTING PLAN DRAWINGS, E6-1 AND E6-2, FOR LOCATIONS, QUANTITIES, BRANCH CIRCUIT NUMBERS, AND OTHER REQUIRED INSTALLATIONS, AS RELATED TO THE CULTIVATION LIGHTING CIRCUITS, CONTROL DEVICES, RECEPTACLES, ETC.
2. PROVIDE ONE LIGHTING-CONTACTOR PER EACH MULTI-WIRE BRANCH CIRCUIT HOME RUNS, SUPPLYING POWER TO THE CULTIVATION LIGHTING RECEPTACLES.





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REGISTERED PROFESSIONAL ENGINEER
ERIC HARRIS
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Exp. 12/31/22
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STATE OF CALIFORNIA


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TENANT IMPROVEMENT
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LIGHTING CONTROL DETAILS

| REMARKS | DATE |
|---|---|
| PLAN CHECK SUBMITTAL SET | 04/15/2021 |

PA / PM:
DRAWN BY:
JOB NO.: XXXX

SHEET
E7-3

04/15/2021 PLAN CHECK SUBMITTAL SET

GROW (CULTIVATION) LIGHTING CONTROL SYSTEM DEVICES, SPECIFICATIONS, AND TYPICAL WIRING DIAGRAM

SCALE: NONE

1

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STATE OF CALIFORNIA
**Indoor Lighting**
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: Freshmade Grow TI | Report Page: | Page 1 of 7 |
| Project Address: 4517 Little John Street, Baldwin Park, CA 91706 | Date Prepared: | 04/14/2021 |

*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.*

## A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Baldwin Park | 04 | Total Conditioned Floor Area (ft²) | 26,184 |
| 02 | Climate Zone | 9 | 05 | Total Unconditioned Floor Area (ft²) | 0 |
| 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): Cannabis Grow Facility

## B. PROJECT SCOPE

*Table Instructions: Include 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. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".*

| 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 | Complete Building | 21,184 | | |
| ☐ Altered Lighting System | | 0 | | |
| **Total Area of Work (ft²)** | **21,184** | | | |

## 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.*

| | 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 |
| *Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.* | 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 Control Credits §140.6(a)2 (-) *Includes Adjustments | = | **Total Adjusted** (Watts) | | **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:** | 10,473.6 | | | | = | **10,473.6** | 5,919 | | = | **5,919** | | **COMPLIES** |
| **Unconditioned:** | | | | | = | | | | = | | | |

Table Continued



STATE OF CALIFORNIA
**Indoor Lighting**
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: Freshmade Grow TI | Report Page: | Page 2 of 7 |
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| Controls Compliance (See Table H for Details) | COMPLIES with Exceptional Conditions |
|---|---|
| **Rated Power Reduction Compliance (See Table Q for Details)** | **Not Applicable** |

## D. EXCEPTIONAL CONDITIONS

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

Table H Indoor Lighting Controls Permit Applicant Notes:
Office Spaces: EXEMPT BECAUSE LESS THAN 120 WATTS OF GENERAL LIGHTING
Hallways - 110,208: EXEMPT BECAUSE GENERAL LIGHTING IS REQUIRED FOR MAINTENANCE OF THE ELECTRICAL PANELS/EQUIPMENT
Lobby: EXEMPT BECAUSE LESS THAN 120 WATTS OF GENERAL LIGHTING
All Other Areas: THERE IS NO GLAZING OR GLAZING IS LESS THAN 24 SQ. FT.

## E. ADDITIONAL REMARKS

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

## F. INDOOR LIGHTING FIXTURE SCHEDULE

*Table Instructions: Include all permanent designed lighting and all portable lighting in offices.*

**Designed Wattage: Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change[1] | Watts per luminaire[2] | How Wattage is determined | Total number luminaires | Exempt per §140.6(a)3 | Design Watts | Field Inspector Pass | Field Inspector Fail |
| A | 2'X4' LED ARCHITECTURAL TROFFER | ☐ | ☐ | 39 | Mfr. Spec[2] | 21 | ☐ | 819 | ☐ | ☐ |
| B | 2'X2' LED TROFFER | ☐ | ☐ | 29 | Mfr. Spec[2] | 1 | ☐ | 29 | ☐ | ☐ |
| C | 2'X4' LED GASKETED TROFFER | ☐ | ☐ | 39 | Mfr. Spec[2] | 5 | ☐ | 195 | ☐ | ☐ |
| D | 6" RECESSED LED DOWNLIGHT | ☐ | ☐ | 18 | Mfr. Spec[2] | 9 | ☐ | 162 | ☐ | ☐ |
| E | 4' LED LENSED STRIPLIGHT | ☐ | ☐ | 41 | Mfr. Spec[2] | 64 | ☐ | 2,624 | ☐ | ☐ |
| F | 4' LED LENSED STRIPLIGHT | ☐ | ☐ | 41 | Mfr. Spec[2] | 10 | ☐ | 410 | ☐ | ☐ |
| G | 2' GREEN LED VAPORTIGHT | ☐ | ☐ | 20 | Mfr. Spec[2] | 84 | ☐ | 1,680 | ☐ | ☐ |
| H | 4' LED WALL MOUNTED LED | ☐ | ☐ | 34 | Mfr. Spec[2] | 0 | ☐ | 0 | ☐ | ☐ |
| | | | | | **Total Designed Watts CONDITIONED SPACES:** | | | **5,919** | | |

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| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change[1] | Watts per luminaire[2] | How Wattage is determined | Total number luminaires | Exempt per §140.6(a)3 | Design Watts | Field Inspector Pass | Field Inspector Fail |
| | | | | | | | | | | |

*[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*

## H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. 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.*

**Building Level Controls**

| 01 | 02 | 03 | |
|---|---|---|---|
| Mandatory Demand Response §110.12(c) | Shut-Off Controls §130.1(c) | Field Inspector Pass | Field Inspector Fail |
| Required > 10,000 SF | Whole Building Timeswitch | ☐ | ☐ |

**Area Level Controls**

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Area Controls §130.1(a) | Multi-Level Controls §130.1(b) | Shut-Off Controls §130.1(c) | Primary/Skylit Daylighting §130.1(d) | Secondary Daylighting §140.6(d) | Interlocked Systems §140.6(a)1 | Field Inspector Pass | Field Inspector Fail |
| Office Spaces | All Other Building | Manual ON/ OFF | Dimmer | Occ. Sensor | Exempt* | Exempt* | ☐ | ☐ | ☐ |
| Hallways - 110,208 | All Other Building | Manual ON/ OFF | Exempt* | Exempt* | Exempt* | Exempt* | ☐ | ☐ | ☐ |
| Lobby | All Other Building | Manual ON/ OFF | Dimmer | Occ. Sensor | Exempt* | Exempt* | ☐ | ☐ | ☐ |
| All Other Areas | All Other Building | Manual ON/ OFF | Dimmer | Auto Timeswitch | Exempt* | Exempt* | ☐ | ☐ | ☐ |



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*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:

| | |
|---|---|
| Office Spaces | *EXEMPT BECAUSE LESS THAN 120 WATTS OF GENERAL LIGHTING* |
| Hallways - 110,208 | *EXEMPT BECAUSE GENERAL LIGHTING IS REQUIRED FOR MAINTENANCE OF THE ELECTRICAL PANELS/EQUIPMENT* |
| Lobby | *EXEMPT BECAUSE LESS THAN 120 WATTS OF GENERAL LIGHTING* |
| All Other Areas | *THERE IS NO GLAZING OR GLAZING IS LESS THAN 24 SQ. FT.* |

## I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

*Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.*

**Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | |
|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft²) | Area (ft²) | Allowed Wattage (Watts) | Additional Allowances / Adjustment: Area Category | Additional Allowances / Adjustment: PAF |
| Cannabis Grow Facility | All Other Building | 0.4 | 26,184 | 10,473.6 | ☐ | ☐ |
| | | **TOTAL:** | **26,184** | **10,473.6** | See Tables J or P for detail | |

## J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

*This Section Does Not Apply*

## K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

*This Section Does Not Apply*

## L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

*This Section Does Not Apply*

## M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

*This Section Does Not Apply*



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## N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

*This Section Does Not Apply*

## O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

*This Section Does Not Apply*

## P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

*This Section Does Not Apply*

## Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

*This Section Does Not Apply*

## R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

*This Section Does Not Apply*

## S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

*This Section Does Not Apply*

## T. 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 | 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. | ☐ | ☐ |



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| | | | | |
|---|---|---|---|---|
| ○ | ◉ | 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

*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 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). | ☐ | ☐ |
| ○ | ◉ | NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF). | ☐ | ☐ |



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| Project Name: Freshmade Grow TI | Report Page: | Page 7 of 7 |
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## DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

| | | | |
|---|---|---|---|
| Documentation Author Name: | Saman Parsi | Documentation Author Signature: | |
| Company: | Sky Parsi Engineering & Consulting Corporation | Signature Date: | 04/14/2021 |
| Address: | 5 Upper Newport Plaza, Suite 101 | CEA/ HERS Certification Identification (if applicable): | NA |
| City/State/Zip: | Newport Beach, CA 92660 | Phone: | (949) 413-0600 |

**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: | Saman Parsi | Responsible Designer Signature: | |
| Company : | Sky Parsi Engineering & Consulting Corporation | Date Signed: | 04/14/2021 |
| Address: | 5 Upper Newport Plaza, Suite 101 | License: | E19332 |
| City/State/Zip: | Newport Beach, CA 92660 | Phone: | (949) 413-0600 |



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We Architects Group

CONSULTANT

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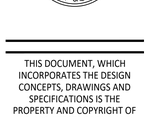
TEL: 949-375-0916 /7750

STAMP

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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET
E8-1

04/15/2021 PLAN CHECK SUBMITTAL SET

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

STATE OF CALIFORNIA
**Outdoor Lighting**
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| *This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.* | | |
| Project Name: Freshmade Grow TI | Report Page: | Page 1 of 6 |
| Project Address: 4517 Little John Street, Baldwin Park, CA 91706 | Date Prepared: | 04/15/2021 |

## A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Baldwin Park | 04 | Total Illuminated Hardscape Area (ft²) | 1,805 |
| 02 | Climate Zone | 9 | | | |
| 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

*Table Instructions: Include any 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 |

*[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*

## 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.*

| Calculation 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 | + | Per Application §140.7(d)2 | + | Sales Frontage §140.7(d)2 | + | Ornamental §140.7(d)2 | + | Per Specific Area §140.7(d)2 | OR | Existing Power §141.0(b)2L | = | Total Allowed (Watts) | ≥ | Total Actual (Watts) | 07 Must be ≥ 08 |
| (See Table I) | | (See Table J) | | (See Table K) | | (See Table L) | | (See Table M) | | (See Table N) | | | | (See Table F) | |
| 538.15 | + | | + | | + | | + | | OR | | = | 538.15 | ≥ | 208 | COMPLIES |
| | | | | | | | | | | | | Cutoff Compliance (See Table G for Details) | | Not Applicable | |
| | | | | | | | | | | | | Controls Compliance (See Table H for Details) | | COMPLIES | |



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## 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. OUTDOOR LIGHTING FIXTURE SCHEDULE

*Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).*

**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 Wattage is determined | Total number luminaires[3] | Luminaire Status[3] | Excluded per §140.7(a) | Design Watts | Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)[4] | Field Inspector Pass | Fail |
| D | 6" RECESSED LED | ☐ Linear | 18 | Mfr. Spec[1] | 4 | New | ☐ | 72 | NA: <6,200 lumens | ☐ | ☐ |
| O | WALL-MOUNT LED | ☐ Linear | 34 | Mfr. Spec[1] | 4 | New | ☐ | 136 | NA: <6,200 lumens | ☐ | ☐ |
| | | | | | | | Total Designed Watts: | 208 | | | |

* 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/ft instead of Watts/luminaire. Total linear feet for the luminaire 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).*



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## G. CUTOFF REQUIREMENTS (BUG)

*This Section Does Not Apply*

## H. OUTDOOR LIGHTING CONTROLS

*Table Instructions: Complete this table demonstrating 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. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

**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 |
| GENERATOR | Astronomical Timer | Yes | Yes | ☐ | ☐ |
| TRUCKWELL | Astronomical Timer | Yes | Yes | ☐ | ☐ |
| MAIN ENTRANCE | Astronomical Timer | Yes | NA: Wall ≤ 24ft | ☐ | ☐ |

*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).*

## I. LIGHTING POWER ALLOWANCE (per §140.7)

*Table Instructions: Please complete this table for areas using the 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 | | | | |
|---|---|---|---|---|---|
| | "Use it or lose it" Allowances (select all that apply) | | | | |
| ☑ General Hardscape Allowance | ☐ Per Application | ☐ Sales Frontage | ☐ Ornamental | ☐ Per Specific Area | |
| | Table I (below) | Table J | Table K | Table L | Table M |
| Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3) | | | | | |

Table Continued



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| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Surface Type | Area Wattage Allowance (AWA) Illuminated Area (ft²) | Allowed Density (W/ft²) | Area Allowance (Watts) | Linear Wattage Allowance (LWA) Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | Total General AWA + LWA (Watts) |
| MAIN ENTRANCE | Concrete | 345 | 0.03 | 10.35 | 80 | 0.4 | 32 | 42.35 |
| TRUCKWELL | Concrete | 830 | 0.03 | 24.9 | 141 | 0.4 | 56.4 | 81.3 |
| GENERATOR | Concrete | 630 | 0.03 | 18.9 | 114 | 0.4 | 45.6 | 64.5 |
| | | | | | | Initial Wattage Allowance for Entire Site (Watts): | | 350 |
| | | | | | | Total General Hardscape Allowance (Watts): | | 538.15 |

## J. LIGHTING ALLOWANCE: PER APPLICATION

*This Section Does Not Apply*

## K. LIGHTING ALLOWANCE: SALES FRONTAGE

*This Section Does Not Apply*

## L. LIGHTING ALLOWANCE: ORNAMENTAL

*This Section Does Not Apply*

## M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

*This Section Does Not Apply*

## N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

*This Section Does Not Apply*



STATE OF CALIFORNIA
**Outdoor Lighting**
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: Freshmade Grow TI | Report Page: | Page 5 of 6 |
| Project Address: 4517 Little John Street, Baldwin Park, CA 91706 | Date Prepared: | 04/15/2021 |

## O. 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 | 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. | ☐ | ☐ |

## P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*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 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 area added to ≤ 20 luminaires. | ☐ | ☐ |



STATE OF CALIFORNIA
**Outdoor Lighting**
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: Freshmade Grow TI | Report Page: | Page 6 of 6 |
| Project Address: 4517 Little John Street, Baldwin Park, CA 91706 | Date Prepared: | 04/15/2021 |

## DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

| | | | |
|---|---|---|---|
| Documentation Author Name: | Saman Parsi | Documentation Author Signature: | |
| Company: | Sky Parsi Engineering & Consulting Corporation | Signature Date: | 04/15/2021 |
| Address: | 5 Upper Newport Plaza, Suite 101 | CEA/ HERS Certification Identification (if applicable): | N/A |
| City/State/Zip: | Newport Beach, CA 92660 | Phone: | 949.771.7732 |

**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: | Saman Parsi | Responsible Designer Signature: | |
| Company : | Sky Parsi Engineering & Consulting Corporation | Date Signed: | 04/15/2021 |
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REGISTERED PROFESSIONAL ENGINEER
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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA 91706

TITLE 24 COMPLIANCE FORMS - OUTDOOR LIGHTING

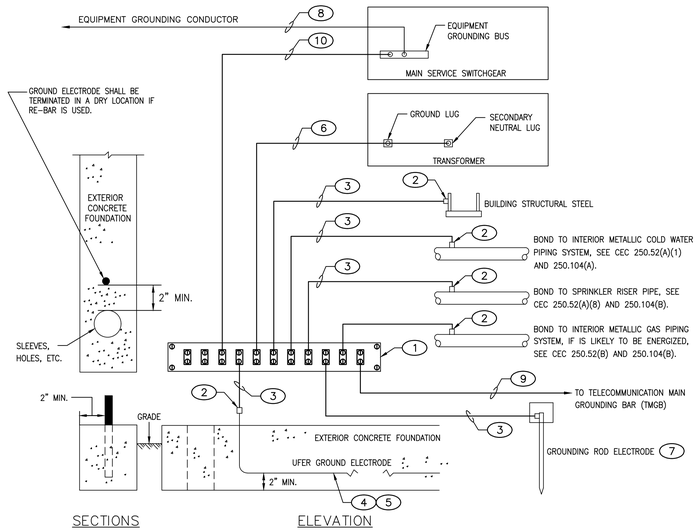
| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

| | |
|---|---|
| PA / PM: | |
| DRAWN BY: | |
| JOB NO.: | XXXX |

SHEET
E8-2

04/15/2021 PLAN CHECK SUBMITTAL SET

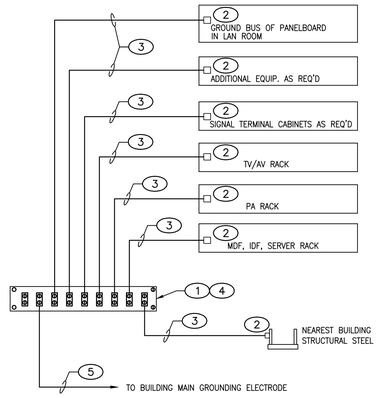
CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT




## KEYNOTES:

1. 4" X 1/4" X LENGTH AS NEEDED, MAIN GROUNDING ELECTRODE COPPER BAR OR SERVICE SWITCHGEAR GROUNDING BUS BAR.
2. CONNECT GROUNDING ELECTRODE CONDUCTOR TO THE GROUNDING ELECTRODE WITH UL LISTED GROUNDING CLAMP, OR UL LISTED EXOTHERMIC WELDING, OR OTHER LISTED MEANS AS PERMITED BY CEC 250.70.
3. 3/4" CONDUIT WITH 1#3/0 THHN/THWN, CU. GROUNDING ELECTRODE CONDUCTOR. SMALLER GROUNDING ELECTRODE CONDUCTOR IS ACCEPTABLE, IF PERMITTED BY CEC TABLE 250.66.
4. MINIMUM 20 FEET OF GALVANIZED 1/2" DIAMETER STEEL BAR (OR 1#2/0 AWG BARE COPPER CONDUCTOR) ENCASED BY AT LEAST TWO INCHES OF CONCRETE, AND PLACED NEXT TO THE BOTTOM OF A CONCRETE PAD, FOUNDATION, OR FOOTING IN DIRECT CONTACT WITH EARTH, PER CEC 250.52(A)(3).
5. REINFORCING BARS SHALL BE BONDED TOGETHER BY STEEL TIE WIRES.
6. TRANSFORMER GROUNDING ELECTRODE CONDUCTOR. SEE SINGLE LINE DIAGRAM FOR SIZE (CEC TABLE 250.66).
7. 3/4"ø X 10'-0" OF EITHER STAINLESS STEEL OR COPPER/ZINC COATED STEEL GROUNDING ROD ELECTRODE, PER CEC 250.52(A)(5). INSTALL ADDITIONAL GROUNDING ROD(S), AS NEEDED, TO ACHIEVE 25 OHMS OR LESS GROUNDING RESISTANCE. REFER TO DETAIL: (1 / E9-1)
8. EQUIPMENT GROUNDING CONDUCTOR. SEE SINGLE LINE DIAGRAM FOR SIZE (CEC TABLE 250.122).
9. 3/4" CONDUIT WITH 1#3/0 THHN/THWNM, CU. TELECOMMUNICATION BONDING BACKBONE (TBB).
10. 3/4" CONDUIT WITH 1#3/0 THHN/THWN, CU. BONDING GROUND CONDUCTOR TO THE MAIN SERVICE SWITCHGEAR GROUND BUS BAR.

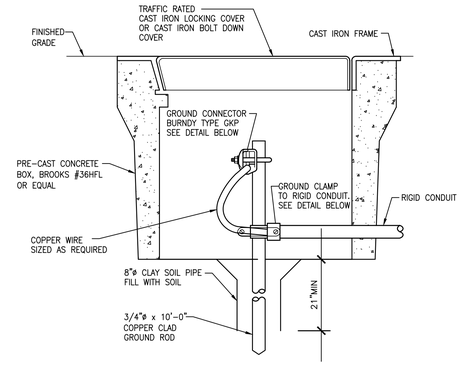
BUILDING MAIN GROUNDING ELECTRODE DETAIL | SCALE: NONE | 1

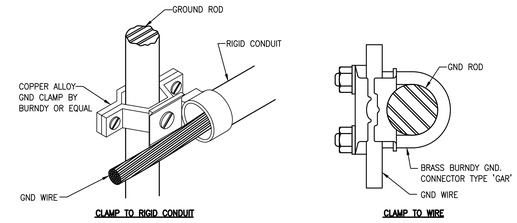



## KEYNOTES:

1. 4" x 1/4" X LENGTH AS NEEDED, TELECOMMUNICATION MAIN GROUNDING BUS BAR (TMGB).
2. APPROVED U.L. LISTED GROUNDING CLAMP.
3. 3/4" CONDUIT WITH 1#6 THHN/THWN, CU.
4. UL LISTED PRE-DRILLED ELECTRO TIN-PLATED COPPER BUSBAR.
5. SEE KEY NOTE 9 ON DETAIL (1 / E9-1) FOR TERMINATION.

TELECOMMUNICATION/DATA GROUNDING DETAIL | SCALE: NONE | 2



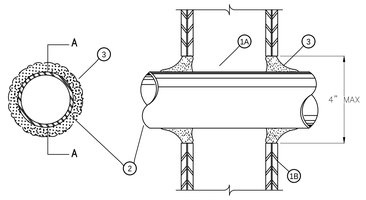

## NOTES:

PROVIDE ADDITIONAL GROUND RODS IN CONCRETE BOXES 72" O.C. AS NEEDED TO MEET 25 OHM REQUIREMENT EXTENDING SAME CONDUIT AND WIRE AND USING SAME CLAMPS. 25 OHM RESISTANCE TO GROUND MAXIMUM SHALL BE PROVIDED USING GROUND RODS ONLY. PRIOR TO THE CONNECTION OF CONDUIT AT ROD OR GROUND BUS BAR OR OTHER GROUND PATH.

GROUND ROD DETAIL | SCALE: NONE | 3

## FRAMED WALL PENETRATION DETAIL
## U.L. SYSTEM NO. W-L-1001

F RATINGS 1,2,3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)




SECTION A-A

1. WALL ASSEMBLY – THE 1,2,3, OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAXIMUM 2H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF MINIMUM NOMINAL 2" X 4" LUMBER SPACED 16" OC WITH MINIMUM 2" X 4" LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3-5/8" WIDE BY 1-3/8" DEEP CHANNELS SPACED MAXIMUM 24" OC.

   B. WALLBOARD, GYPSUM*– NOMINAL 1/2" OR 5/8" THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 26".

2. THROUGH-PENETRANT (CONDUIT OR PIPE) – ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

   A. STEEL PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
   C. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
   D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
   E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

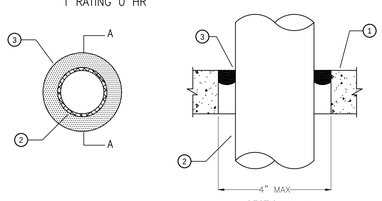
3. FILL, VOID OR CAVITY MATERIAL* — CAULK OR SEALANT — MIN 5/8. , 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

| MAX THROUGH OPENING DIAM, IN | F RATING, HR | T RATING, HR |
|---|---|---|
| 1 | 1 or 2 | 0+, 1 or 2 |
| 1 | 3 or 4 | 3 or 4 |
| 6 | 3 or 4 | 0 |
| 4 | 1 or 2 | 0 |
| 12 | 1 or 2 | 0 |

CONDUIT PENETRATION DETAIL | SCALE: NONE | 4

## FIRESTOP DETAILS
## CONCRETE WALL PENETRATION DETAIL
## U.L. SYSTEM NO. C-AJ-1027

F RATING 3 HR (SEE ITEM 3)
T RATING 0 HR




SECTION A-A

1. FLOOR OR WALL ASSEMBLY – MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF THROUGH OPENING IS 12-1/4 IN.
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH PENETRANTS – ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MIN ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF OPENING IS 0 IN. (POINT CONTACT). MAX ANNULAR SPACE IS DEPENDENT ON PIPE, CONDUIT OR TUBING TYPE AND SIZE AS WELL AS THE F RATING OF THE SYSTEM, AS SHOWN IN THE TABLE BELOW. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

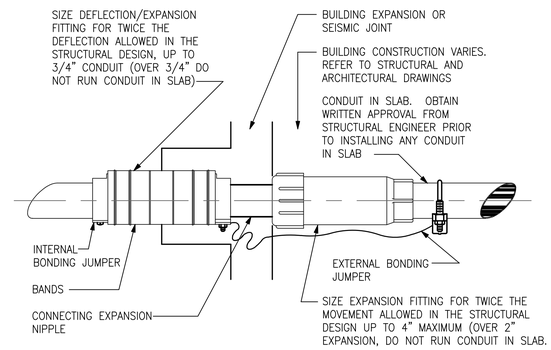
   A. STEEL PIPE – NOM 10 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. CONDUIT – NOM 6 IN. DIAM (OR SMALLER) RIGID STEEL CONDUIT.
   C. CONDUIT – NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
   D. COPPER TUBING – NOM 3 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER PIPE – NOM 3 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   F. IRON PIPE – NOM 10 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

| PIPE, CONDUIT, OR TUBING TYPE | MAX THROUGH OPENING DIAM, IN | F RATING, HR | MAX ANNULAR SPACE, IN |
|---|---|---|---|
| A or F | 10 | 3 | 3/4 |
| B | 6 | 3 | 3/4 |
| C | 4 | 3 | 1-1/2 |
| D and E | 3 | 3 | 3/4 |
| D and E | 3 | 2 | 7/8 |

3. FILL, VOID OR CAVITY MATERIALS* – PUTTY – MOLDABLE PUTTY MATERIAL KNEADED BY HAND AND APPLIED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN., FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED PUTTY THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.

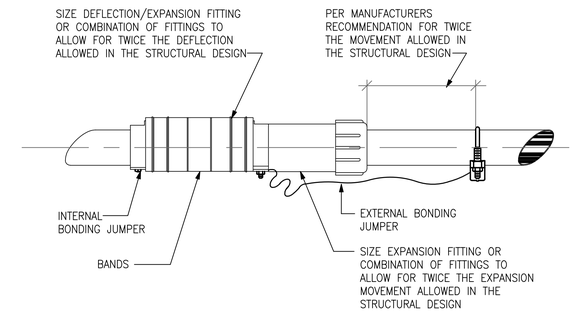
   * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

CONDUIT PENETRATION DETAIL | SCALE: NONE | 5




APPLICATION: ALL IN-SLAB CONDUITS. REFER TO STRUCTURAL DRAWINGS FOR EXPANSION JOINT/SEISMIC JOINTS LOCATIONS.

COMBINATION EXPANSION/DEFLECTION FITTING IN SLAB | SCALE: NONE | 6




APPLICATION: ALL SURFACE MOUNTED CONDUITS. REFER TO STRUCTURAL DRAWINGS FOR EXPANSION JOINT/SEISMIC JOINTS LOCATIONS.

COMBINATION EXPANSION/DEFLECTION FITTING | SCALE: NONE | 7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REGISTERED PROFESSIONAL ENGINEER
ALTEMUS, JAMES
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ELECTRICAL
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ELECTRICAL DETAILS

| REMARKS | DATE |
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| PLAN CHECK SUBMITTAL SET | 04/15/2021 |

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| JOB NO.: | XXXX |

SHEET

E9-1

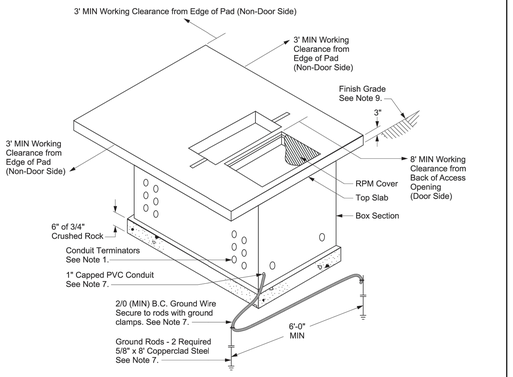
04/15/2021 PLAN CHECK SUBMITTAL SET

CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

**SS 535** **10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators**

**Scope SS 535.1** **10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators**

**Figure SS 535–1: 10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators**




**Note(s):**
1. Conduit terminators to be located as shown on Figure SS 535–2 (Sheet 2) to Figure SS 535–5 (Sheet 5). Standard conduit entrance will be a flatwall design. Slight variations by manufacturers may be allowed with Company approval.
2. When cable trench openings are required in a slab box, they can be special ordered from the concrete precaster.
3. For slab box structural design criteria, see Figure SS 535–2 (Sheet 2) to Figure SS 535–5 (Sheet 5).
4. For list of material requirements notes, see Table SS 535–1 (Sheet 5).
5. Consult manufacturers' installation guides for excavation dimensions.
6. An 8' minimum clearance is required on door side of transformer for operation.
7. Ground rods, clamps, and wire will be furnished by contractor. See AC 703 for approved grounding materials. Ground wire to be a minimum of 2/0 bare copper. Ground wire to be placed through capped one-inch PVC conduit at either end of slab box. A minimum three-foot length of ground wire will be placed in slab box.
8. Mastic sealant is required at joints.
9. Top surface of slab box will be set three inches above finished grade.
10. See SS 500 for approved manufacturers.

| Approved by: | 10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators | SS 535 |
|---|---|---|
| Effective Date: 07-26-2019 | **What's Changed?** Standard has been updated to include Voltage Regulators. | Sheet 1of6 |
| | | UGS |

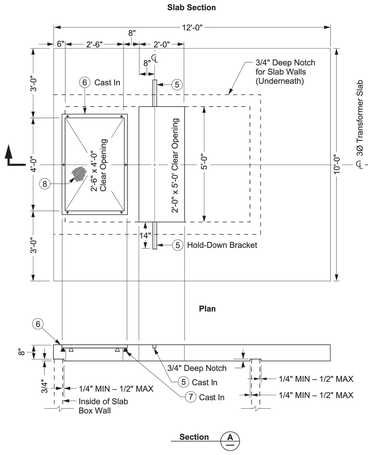
► SCE Public ◄

| 10' X 12' PRECAST CONCRETE SLAB BOX FOR PAD-MOUNTED SCE TRANSFORMER | SCALE: NONE | 1 |
|---|---|---|



**Scope SS 535.2** **Shows Precast Slab Box for 3Ø Pad-Mounted Transformers and Pad-Mounted Voltage Regulators**

**Figure SS 535–2: Shows Precast Slab Box for 3Ø Pad-Mounted Transformers and Pad-Mounted Voltage Regulators — Plan and Section C**




**Note(s):**
1. For list of materials and notes, see Table SS 535–1 (Sheet 5).

| SS 535 | 10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators | Approved by: |
|---|---|---|
| Sheet 2of6 | **What's Changed?** Standard has been updated to include Voltage Regulators. | Effective Date: 07-26-2019 |
| UGS | | |

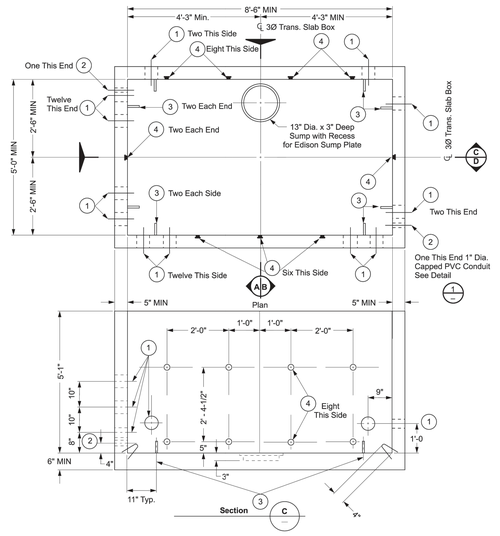
► SCE Public ◄

| 10' X 12' PRECAST CONCRETE SLAB BOX FOR PAD-MOUNTED SCE TRANSFORMER | SCALE: NONE | 2 |
|---|---|---|



**Scope SS 535.3** **Precast Slab Box for 3Ø Pad-Mounted Transformers and Pad-Mounted Voltage Regulators — Box Section**

**Figure SS 535–3: Precast Slab Box for 3Ø Pad-Mounted Transformers and Pad-Mounted Voltage Regulators — Box Section — Plan and Section C**




**Note(s):**
1. For list of materials and notes, see Table SS 535–1 (Sheet 5).

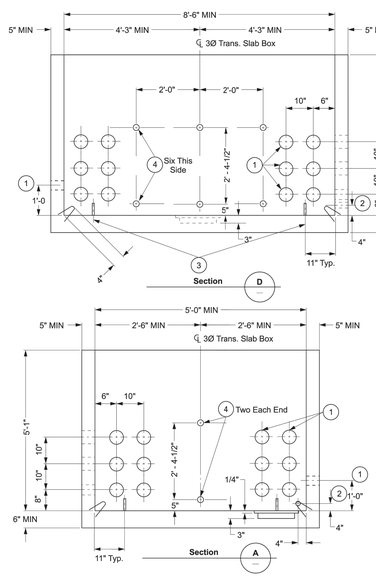
| Approved by: | 10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators | SS 535 |
|---|---|---|
| Effective Date: 07-26-2019 | **What's Changed?** Standard has been updated to include Voltage Regulators. | Sheet 3of6 |
| | | UGS |

► SCE Public ◄

| 10' X 12' PRECAST CONCRETE SLAB BOX FOR PAD-MOUNTED SCE TRANSFORMER | SCALE: NONE | 3 |
|---|---|---|



**Figure SS 535–4: Precast Slab Box for 3Ø Pad-Mounted Transformers and Pad-Mounted Voltage Regulators — Box Section — Sections D and A**




**Note(s):**
1. For list of materials and notes, see Table SS 535–1 (Sheet 5).

| SS 535 | 10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators | Approved by: |
|---|---|---|
| Sheet 4of6 | **What's Changed?** Standard has been updated to include Voltage Regulators. | Effective Date: 07-26-2019 |
| UGS | | |

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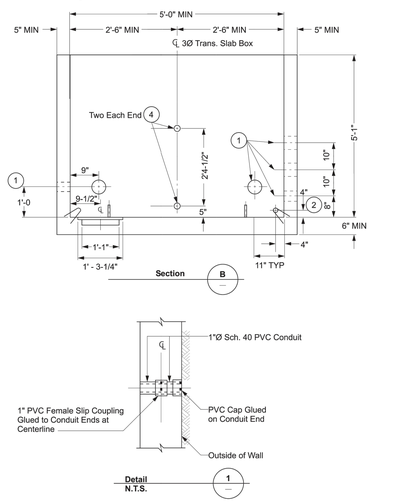
| 10' X 12' PRECAST CONCRETE SLAB BOX FOR PAD-MOUNTED SCE TRANSFORMER | SCALE: NONE | 4 |
|---|---|---|



**Figure SS 535–5: Precast Slab Box for 3Ø Pad-Mounted Transformers and Pad-Mounted Voltage Regulators — Box Section — Section B and Detail 1**




**Note(s):**
1. For list of materials and notes, see Table SS 535–1 (Sheet 5).

| Approved by: | 10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators | SS 535 |
|---|---|---|
| Effective Date: 07-26-2019 | **What's Changed?** Standard has been updated to include Voltage Regulators. | Sheet 5of6 |
| | | UGS |

► SCE Public ◄

| 10' X 12' PRECAST CONCRETE SLAB BOX FOR PAD-MOUNTED SCE TRANSFORMER | SCALE: NONE | 5 |
|---|---|---|



**Table SS 535–1: List of Materials — Precast Slab Box for 3Ø Pad-Mounted Transformers and Pad-Mounted Voltage Regulators — Box Section**

| Ref. No. | Description | Quantity |
|---|---|---|
| 1 | 5" DIA Plastic Conduit Terminators[a/] | 28 |
| 2 | Capped Schedule 40 PVC 1" Conduit (See Detail 1)[b/] | 2 |
| 3 | Pull Irons 7/8" DIA Vertical[c/] | 8 |
| 4 | 1/2" DIA Plastic Inserts — Imper. Constr. Products — 15000[d/] | 18 |
| 5 | Hold-Down Brackets, P-3200 Series Unistrut, 1'-2" Long[e/] | 2 |
| 6 | Hot-Dipped Galvanized 30" x 48" Steel Pull Box Frame[f/] | 1 |
| 7 | 1/2" DIA Open Bottom Threaded Insert — Star #P35T9[g/] | 6 |
| 8 | 30" DIA 48" RPM Pull Box Cover[h/] | 1 |
| 9 | 1/2" x 2-1/2" Large S.S. Penta-Head Bolt with Captive Free-Spinning Round Flat S.S. Washer[i/] | 6 |

[a/] Plastic conduit terminators will be an Edison-approved one-piece design.
[b/] A one-inch dia. capped Schedule 40 PVC conduit will be installed as shown in Detail 1.
[c/] Seven-eighths-inch pull irons will be designed for a working tension of 20,000 pounds plus a safety factor of 2.
[d/] One-half-inch threaded plastic inserts will be Imperial Construction Products, Part No. 15000.
[e/] Hold-down brackets will be P-3200 series Unistrut (or equivalent), 1'-2" long. Brackets will be hot-dipped galvanized after fabrication. The end of the two brackets adjacent to the slab cable entrance will be permanently blocked solid.
[f/] 30" x 48" steel pull box frame will be constructed as shown in FC 608. Frame to be hotdipped galvanized after fabrication.
[g/] One-half-inch open bottom metal threaded inserts will be Star, Part #P35T or equivalent. A cleanout hole will be provided under each insert.
[h/] 30" x 48" RPM pull box cover will be constructed as shown in FC 618.
[i/] 30" x 48" RPM pull box cover will be attached to cover frame/inserts with 1/2" x 2-1/2" long S.S. Penta-head bolts with captive free-spinning round flat S.S. washers.

**Note(s):**
1. Design and construction of three-phase transformer slab box will conform to GI 030 wherever applicable (specification for precast reinforced concrete vaults and manholes).
2. Walls will be painted white.
3. No lifting inserts or like devices will be installed in floor of base section.
4. No lifting inserts or like devices will be installed on top outside slab surface.
5. Slab will be designed to support a maximum transformer weight of 30,000 pounds. For dimensional distribution of transformer loads, contact SCE Corp.
6. Structural design will be approved by Los Angeles County Road and Bridge Department.

| SS 535 | 10' x 12' Precast Slab Box for 3Ø Pad-Mounted Transformers up to 5,000 kVA and Pad-Mounted Voltage Regulators | Approved by: |
|---|---|---|
| Sheet 6of6 | **What's Changed?** Standard has been updated to include Voltage Regulators. | Effective Date: 07-26-2019 |
| UGS | | |

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| 10' X 12' PRECAST CONCRETE SLAB BOX FOR PAD-MOUNTED SCE TRANSFORMER | SCALE: NONE | 6 |
|---|---|---|

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E10-1

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**MC 830 Protective Barrier for Underground Distribution Structures**

**Scope MC 830.1 Protective Barrier for Underground Distribution Structures**

**Figure MC 830–1: Protective Barrier for Underground Distribution Structures**

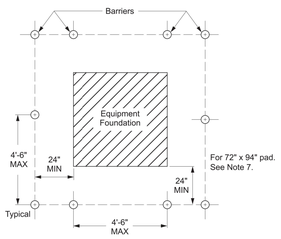


**Figure MC 830–1.1: Plan Equipment Foundation**

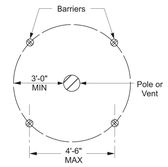


**Figure MC 830–1.2: Plan Pole or Vent**

| Approved by: | Protective Barrier for Underground Distribution Structures | MC 830 |
|---|---|---|
| Effective Date: 10-26-2018 | **What's Changed?** | Sheet 1 of 3 |
| | | UGS |





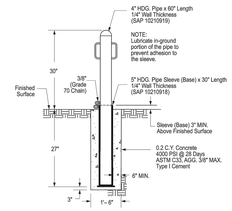


**Figure MC 830–1.3: Removable Barrier Detail**

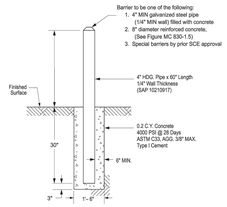


**Figure MC 830–1.4: Protective Barrier Detail**

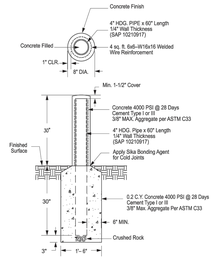


**Figure MC 830–1.5: Cast-in-Place Concrete Barrier Detail**

1. Structures will normally be installed only in nontraffic areas. Protective barriers are to be used where construction exposes equipment to traffic.
2. Tops of protective barriers are to be smooth cut and top edges are to be rounded.
3. At least one barrier is to be removable, with a means of lifting to support the weight of the barrier, when overhead obstacles prevent equipment removal or installation by crane. See Figure MC 830–1.3 (Sheet 2). The location of the removable barrier(s) shall be approved by the Underground Inspector.
4. Adequate clearance must be provided for doors, cooling radiators, and so forth.
5. Protective barriers, as shown above, indicate typical requirements. Field conditions will necessitate changes for adequate equipment protection. Application of protective barriers is site-specific.

| MC 830 | Protective Barrier for Underground Distribution Structures | Approved by: |
|---|---|---|
| Sheet 2 of 3 | **What's Changed?** Revised Figure MC 830-1.3 to show a 27" vertical distance from grade to the bottom of the removable barrier. | Effective Date: 10-26-2018 |
| UGS | | |





6. The Underground Inspector in the field must approve all protective barrier installations prior to construction. The Underground Inspector will determine (a) status of overhead obstructions, (b) the front and back of equipment foundations, and (c) the clearances required on doors, cooling radiators, and so forth.
7. When a 72" x 94" pad is being installed, (a) increase the distance to 36 inches minimum between the protective barriers and the front edge of the pad; and (b) increase the distance between the protective barriers and the back edge of the pad for capacitor bank (door side only) to 36 inches minimum. The Underground Inspector will determine the front and back of this equipment foundation.
8. With prior SCE approval, the following alternatives may be used in lieu of protective barriers for padmounted structures:
   a. When specified on working drawing, a 6-inch (minimum vertical face) concrete curb may be installed in place of protective barriers. This curb must be at least 6 inches thick and its front face at least 60 inches (minimum spacing) from the equipment foundation.
   b. When specified on working drawing for residential tract developments, protected barriers will not be required when there are rolled curbs or 6-inch vertical face curbs that have at least 60 inches (minimum spacing) from the curb to the edge of the equipment foundation.
   c. Where equipment is located adjacent to a residential driveway, protective barriers may not be required when there is 30-inch (minimum) clearance from the equipment foundation to the edge of the driveway. In addition, a 60-inch clearance shall be maintained from a fire hydrant to a pole. Field conditions will necessitate changes for adequate equipment protection. If the minimum clearances cannot be obtained, protective barriers are required.
9. With prior SCE approval, the following alternatives may be used in lieu of protective barriers for primary surface or semi buried structures including BURD structures:
   a. When specified on working drawing, a 6-inch (minimum vertical face) concrete curb, 8-feet in length may be installed in place of protective barriers. This curb must be at least 6 inches thick.
   b. Where there are rolled curbs or curbs that have less than 6-inches of vertical face, protective barriers may not be required when there is at least 60 inches (minimum spacing) from the curb to the edge of the primary surface or semi buried structures. (See Figure MC 830-1.5)
   c. Where equipment is located adjacent to a residential driveway, protective barriers may not be required when there is 30-inch (minimum) clearance from the equipment foundation to the edge of the driveway. (See Figure MC 830-1.5)
   d. Field conditions will necessitate changes for adequate equipment protection. If the minimum clearances cannot be obtained or there is no curb, protective barriers shall be required.
   e. In addition, a 60-inch clearance shall be maintained from a fire hydrant to a pole, transformers, PME switches, or any primary surface or semi buried structure.

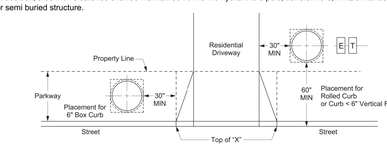


**Figure MC 830–1.6: Placement of Primary or Semi-Buried Structure from Driveway**

| Approved by: | Protective Barrier for Underground Distribution Structures | MC 830 |
|---|---|---|
| Effective Date: 10-26-2018 | **What's Changed?** | Sheet 3 of 3 |
| | | UGS |



| 4" MIN. GALVANIZED STEEL PIPE FILLED WITH CONCRETE PROTECTIVE BARRIER | SCALE: NONE | 1 |
|---|---|---|
| 4" MIN. GALVANIZED STEEL PIPE FILLED WITH CONCRETE PROTECTIVE BARRIER | SCALE: NONE | 2 |
| 4" MIN. GALVANIZED STEEL PIPE FILLED WITH CONCRETE PROTECTIVE BARRIER | SCALE: NONE | 3 |
| NOT USED | SCALE: NONE | 4 |
| NOT USED | SCALE: NONE | 5 |
| NOT USED | SCALE: NONE | 6 |

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## GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH AND PERFORMED AND INSTALLED IN COMFORMANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. 2019 CALIFORNIA. ENERGY CODE, PART 6, TITLE 24 C.C.R. 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R., 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. 2019 TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS 2013 NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS
2. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. FURNISH ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS WITH INSULATION. ALL WATER CLOSET FLUSHING LEVERS SHALL BE TO THE WIDE SIDE OF THE STALL.
3. TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL.
4. ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
5. ALL CLEANOUTS SHALL BE INSTALLED WHERE EASILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH ALL EQUIPMENT, CABINETS AND OTHER OBSTRUCTION PRIOR TO ANY INSTALLATION. CLEANOUTS MUST BE EXTENDED TO FLUSH WITH FINISHED WALL.
6. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
7. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON PLANS.
8. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH VALVE AND PRIOR TO ALL EQUIPMENT CONNECTIONS.
9. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
10. BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF SPECIFICATIONS. ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN THE FIELD.
11. ALL WASTE PIPING SHALL SLOPE @ ¼" PER FOOT PER SECTION 708 CPC
12. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT LOCATED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL. ALL PIPING & DEVICES SHALL BE INSTALLED ABOVE CEILING, WITHIN WALLS, BELOW FLOORS, OR OTHERWISE CONCEALED. EXCEPT PIPING AND DEVICES INSTALLED IN MECHANICAL ROOMS AND OTHER UNFINISHED SPACES.
13. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA STATE ENERGY COMMISSION TO COMPLY WITH EFFICIENCY STANDARDS PER SECTION 110 OF THE TITLE-24 REGULATIONS.
14. ALL HOT WATER SUPPLY & RETURN PIPING SHALL BE INSULATED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER CMC SEC. 12.1.2.1.8 SEE SPECIFICATION FOR OTHER REQUIREMENTS.
15. PIPING THROUGH FIRE RATED WALLS SHALL BE PROTECTED PER U.L. FIRE RESISTANCE SYSTEM NO. WL1001. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL RATED WALL LOCATIONS.
16. SEISMIC BRACING AND ANCHORAGE REQUIREMENTS ARE AS FOLLOWS:
A. HE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE.
1. CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-0 OF THE VOL. 2, TITLE 24, 2019 CBC.
A LATERAL FORCE:
B. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED IN PART 2, TITLE 24, 2019 CBC:
1. EQUIPMENT WEIGHING LESS THAN 400 LBS. SUPPORTED DIRECTLY ON FLOOR OR ROOF.
2. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R..
3. TEMPORARY OR MOBILE EQUIPMENT.
4. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUPPORTED BY VIBRATION ISOLATORS.
5. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUSPENDED FROM A ROOF OR HUNG FROM A WALL.
17. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER & SEWER SYSTEMS TO A POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. PIPING BEYOND THIS POINT IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS AND SHALL BE AS SHOWN ON THE CIVIL DRAWINGS. FINAL CONNECTIONS TO SITE PIPING SHALL BE BY THE PLUMBING CONTRACTOR.
18. WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE REQUIRED AND NECESSARY FOR AND TO ALL FIXTURES, EQUIPMENT OR APPLIANCES WITH QUICK CLOSING VALVE AND SHALL BE OF TYPE SPECIFIED.
19. ALL PIPE SIZES SHALL BE THE SAME AS THE UPSTREAM PIPE SIZES UNLESS OTHERWISE INDICATED ON PLAN.
20. CLEAN OUT SHALL BE PROVIDED AS PER CALIFORNIA PLUMBING CODE SECTION 707.
21. NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
22. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
23. EACH PLUMBING FIXTURES THAT CONNECT TO THE SANITARY SEWER SYSTEM SHALL BE PROPERLY TRAPPED AND VENTED IN ACCORDANCE WITH THE 2019 CALIFORNIA PLUMBING CODE.
24. PROVIDE COMPLETE CONDENSATE DRAIN PIPING FOR ALL AC UNITS AND DISCHARGE CONDENSATE TO AN APPROVED RECEPTOR.
25. ALL LAYOUTS, PIPE SIZES, FIXTURE & EQUIPMENT SELECTIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL PROVIDE A COMPLETE PLUMBING SYSTEM. THE DESIGN, CALCULATIONS, FIXTURE, TRIM, EQUIPMENT AND MATERIALS SELECTIONS & DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL AS SPECIFIED.
26. INSULATION THICKNESS AND R-VALUES SHALL EXCEED THE REQUIREMENTS OF TITLE 24 BY AT LEAST 20 PERCENT OR NEXT LARGER STANDARD SIZE, WHICH EVER IS GREATER PIPE INSULATION SHALL BE NOT LESS THAN 1.0 INCH THICK, NOT INCLUDING THE MOISTURE BARRIER OR EXTERIOR JACKET THICKNESS.
27. ALL GAS PRESSURE REGULATOR SHALL BE LOCATED AT GROUND LEVEL OR CLOSE TO APPLIANCE AND LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT FOR APPROVAL. SIZE AND INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. NO MEDIUM PRESSURE GAS INSIDE THE BUILDING.
28. NO GAS & WATER PIPE SHALL BE INSTALLED UNDER BUILDING SLAB. GAS & WATER PIPES SHALL RISE TIGHT AGAINST EXTERIOR WALL UP TO MIN. 18" AFF AND PENETRATE INTO BUILDING. PROVIDE SHUT-OFF VALVE AND REGULATOR ABOVE GRADE AT INCOMING GAS RISERS.
29. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING MECHANICAL, CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING DESCRIPTION CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
30. ALL PLUMBING SYSTEM COMPONENTS SHALL MEET OR EXCEED THE REQUIREMENTS OF C.B.C. (CALIFORNIA EDITION), CMC, CPC, NEC, NFPA, ASTM, ANSI, AND ALL LOCAL AND STATE CODE REQUIREMENTS.
31. ALL PLUMBING EQUIPMENT LISTED IN (CCR) SECTION 113 OF THE 2019 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 1, ENERGY EFFICIENCY STANDARDS MUST BE CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CEC.
32. ALL PIPING EXPOSED TO WEATHER SHALL BE METALLIC.

## GENERAL NOTES (CONTINUATION)

33. ALL FERROUS PIPING EXPOSED TO WEATHER SHALL BE GALVANIZED.
34. ALL PIPES, FITTINGS AND FIXTURES USED TO CONVEY POTABLE WATER SHALL BE LEAD FREE IN COMPLIANCE WITH CALIFORNIA AB 1953.
35. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 120.3 AND SECTION 1201.3.2.1.1 OF CMC (CALIFORNIA EDITION).
36. ALL INSULATION INSTALLED SHALL MEET THE FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF SECTION 719 OF THE 2019 CBC.
37. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
38. ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADOPTED BY THE CEC. IN ACCORDANCE WITH SECTION 110.1 OF THE CCR AND ENERGY EFFICIENCY STANDARDS RESIDENTIAL NON-RESIDENTIAL
39. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 OF CPC.
40. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 CPC.
41. WATER HEATER SHALL COMPLY WITH SECTION 608.3 OF CPC, FOR THERMAL EXPANSION REQUIREMENTS.
42. KITCHEN FAUCETS AND WASH FOUNTAINS SHALL BE 1.8 GPM MAXIMUM.
43. DISHWASHERS AND WASHING MACHINES SHALL MEET US EPA WATER SENSE LABELING REQUIREMENT.
44. ROUTING AND TERMINATION OF FLUE AND COMBUSTION AIR INTAKE FOR WATER HEATER SHALL COMPLY WITH CHAPTER 5, CPC 2019 WITH MANUFACTURER'S SPECIFICATIONS.
45. A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT OR 1.0 % IS PROVIDED FOR DRAINAGE PIPING 4 INCHES OR LARGER ONLY WHERE IT IS IMPRACTICAL DUE TO DEPTH OF THE STREET SEWER, TO THE STRUCTURAL FEATURES, OR TO THE ARRANGEMENT OF A BUILDING OR STRUCTURE TO OBTAIN A SLOPE OF 1/4 INCH PER FOOT OR 2 % AND THAT IS SUBJECT TO THE CITY OF SAN DIEGO PLUMBING FIELD INSPECTORS APPROVAL.
46. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS
47. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
48. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
49. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
50. PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH ALL THE REQUIREMENTS IN SECTION 4.303 IN THE CALIFORNIA GREEN BUILDING CODE.
51. PIPE INSULATION: INSULATION OF DOMESTIC HOT WATER PIPING SHALL BE IN ACCORDANCE WITH SECTION 609.11.1 AND SECTION 609.2 CPC 2019.
609.11.1 INSULATION REQUIREMENTS. DOMESTIC WATER PIPING SHALL BE INSULATED 609.12.1 PIPE INSULATION WALL THICKNESS. HOT WATER PIPING INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2 INCHES IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES FOR A PIPE OF 2 INCHES OR MORE IN DIAMETER
52. EACH FIXTURE TRAP SHALL HAVE A PROTECTIVE VENT SO LOCATED THAT DEVELOPED LENGTH OF T HE TRAP WEIR TO THE INNER EDGE OF THE VENT SHALL BE WITHIN THE DISTANCE GIVEN IN TABLE 1002.2 CPC BUT IN NO CASE LESS THAN TWO TIMES IN THE DIAMETER OF THE TRAP ARM
53. EACH SELF CLOSING LAVATORY FAUCET SHALL NOT EXCEED A WATER FLOW OF 0.20 GALLONS PER CYCLE.
54. CALIFORNIA MECHANICAL CODE 2019 (CMC 2019), CALIFORNIA PLUMBING CODE 2019 (CPC 2019) AND 2019 TITLE 24 ENERGY STANDARDS ARE THE CURRENT CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT.

## PLUMBING LEGEND

| SYMBOL | ABBREVIATION | DESCRIPTION |
|---|---|---|
| | POC/POD | POINT OF CONNECTION / POINT OF DISCONNECTION |
| W | W | SANITARY OR WASTE PIPING |
| | VT | SANITARY VENT PIPING |
| | CW | DOMESTIC COLD WATER PIPING |
| | HW | DOMESTIC HOT WATER |
| | HWR | DOMESTIC HOT WATER RETURN |
| G | G | NATURAL GAS PIPING - 8" WATER COLUMN |
| CD | CD | CONDENSATE DRAIN PIPING |
| | | PIPE DOWN |
| | | PIPE UP |
| | | PIPE BRANCH - TOP CONNECTION |
| | | PIPE BRANCH - BOTTOM CONNECTION |
| | | PIPE BRANCH - SIDE CONNECTION |
| | | PIPE CAP |
| | | DIRECTION OF FLOW |
| | | PIPE SLOPE & DIRECTION OF FALL |
| | | THERMOMETER |
| | WHA | WATER HAMMER ARRESTOR |
| | | PIPE BREAK |
| | WCO | WALL CLEANOUT |
| | | PIPE CONTINUATION |
| | FCO/COTG | FLOOR CLEANOUT OR CLEANOUT TO GRADE |
| | FD | FLOOR DRAIN |
| | FS | FLOOR SINK |
| | SOV | SHUT OFF VALVE |
| | GPR | GAS PRESSURE REGULATOR |
| | | PLUG VALVE / GAS COCK |
| | | PRESSURE GUAGE |
| | AFF | ABOVE FINISHED FLOOR |
| | AFG | ABOVE FINISHED GRADE |
| | ARCH | ARCHITECT OR ARCHITECTURAL |
| | B/C | BELOW COUNTER |
| | B/G | BELOW GRADE |
| | B/S | BELOW SLAB |
| | C.I. | CAST IRON |
| | DF | DRINKING FOUNTAIN |
| | DWG/DWGS | DRAWING/DRAWINGS |
| | DN | DOWN |
| | EA | EACH |
| | ELEV | ELEVATION |
| | °F | DEGREES FAHRENHEIT |
| | FFE | FINISHED FLOOR ELEVATION |
| | FH | FUME HOOD |
| | FT | FEET |
| | FT HD | FEET OF HEAD |
| | GPF | GALLONS PER FLUSH |
| | GPM | GALLONS PER MINUTE |
| | GA | GAUGE |
| | GALV | GALVANIZED |
| | HB | (+18") |
| | HD | HEAD |
| | IPS | IRON PIPE SIZE |
| | I.E. | INVERT ELEVATION |
| | MAX | MAXIMUM |
| | MECH | MECHANICAL |
| | MIN | MINIMUM |
| | MS | MOP SINK / SERVICE SINK |
| | MTD | MOUNTED |
| | NTS | NOT TO SCALE |
| | OPER | OPERATING |
| | PD | PRESSURE DROP |
| | PSI | POUNDS PER SQUARE INCH |
| | P&TRV | PRESSURE AND TEMPERATURE RELIEF VALVE |
| | QTY | QUANTITY |
| | SPEC | SPECIFICATION |
| | SOV | SHUT OFF VALVE |
| | TYP | TYPICAL |
| | VTR | VENT THRU ROOF |
| | W.C. | WATER COLUMN |

EQUIPMENT IDENTIFICATION SYMBOL

EQUIPMENT TYPE

EQUIPMENT IDENTIFIER

We Architects Group
333 W. BROADWAY, P.O. 584
ANAHEIM, CA. 92815
(619) 365-9313
We Architects Group

CONSULTANT

SPEC
SKY PANSKI ENGINEERING & CONSULTING

STAMP

REGISTERED PROFESSIONAL ENGINEER
JESSE VANDER VEEN
No. 34874
Exp. June 30, 2022
MECHANICAL
STATE OF CALIFORNIA

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# FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

PLUMBING LEGEND AND NOTES

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

PA / PM:
DRAWN BY:
JOB NO.: XXXX
SHEET

P0.1

04/15/2021 PLAN CHECK SUBMITTAL SET

VanderVeen ENGINEERING CONSULTANTS INC.

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# FIXTURE DATA AND WATER CALCULATION

| ITEM | DESCRIPTION | NO. OF FIXT | WFU 'S | DFU 'S | CW | HW | SEWER |
|---|---|---|---|---|---|---|---|
| WC-1A | WATER CLOSET (TANK TYPE) | 4 | 2.5 | 4.0 | 10.0 | 1 | 16.0 |
| | | | | | | | |
| LV-1A | LAVATORY | 4 | 1.0 | 2.0 | 4.0 | 3.0 | 8.0 |
| HS-1A | HAND SINK | 1 | 2.0 | 2.0 | 2.0 | 1.5 | 2.0 |
| MS-1 | MOP SINK | 1 | 3.0 | 3.0 | 3.0 | 2.3 | 3.0 |
| FD-1 | FLOOR SINK | 2 | 0 | 2.0 | 0 | 0.0 | 4.0 |
| TD-1 | TRENCH DRAIN | 1 | 0 | 2.0 | 0 | 0.0 | 2.0 |
| | | | | | | | |
| | TOTAL WFU'S, DFU'S | 0 | | 0 | 19.0 | 7.8 | 35.0 |

MAIN DOMESTIC WATER SUPPLY SIZING BASE ON LATEST EDITION CPC 2019 TABLE A 103.1, CHART A 105.1 (1)

COLD WATER FIXTURES UNITS = 13 GPM
HOT WATER FIXTURES UNITS = 9 GPM

# EXISTING FRICTION LOSSES

| | | |
|---|---|---|
| WATER PRESSURE AT THE STREET. FIELD VERIFY PRIOR TO START OF WORK. | 100 | PSI |
| LENGTH OF DOMESTIC WATER SYSTEM TO THE FURTHEST RUN. | 200 | FT |
| 3/4" WATER METER | 7 | PSI |
| 1" BACKFLOW PREVENTER | 8 | PSI |
| 1" PRESSURE REGULATOR | 8 | PSI |
| TOTAL LOSSES | 23 | PSI |
| PRESSURE INSIDE THE BUILDING | 60 | PSI |
| STATIC HEIGHT | 15 | FT |
| RESIDUAL PRESSURE: | 25 | PSI |
| PRESSURE AVAILABLE FOR FRICTION LOSS | 28.55 | PSI |
| ALLOWABLE FRICTION LOSS PER HUNDRED FEET | 14.3 | PSI |

## COLD WATER PIPE SIZING

| PIPE DIA. | GPM | FLUSH TANK FIXTURE UNIT | FLUSH VALVE FIXTURE UNIT | VELOCITY |
|---|---|---|---|---|
| 1/2" | 4.1 | 1 | -- | 5.9 |
| 3/4" | 12.0 | 7 | -- | 7.8 |
| 1" | 19.6 | 20 | 6 | 8.0 |
| 1-1/4" | 29.6 | 52 | 13 | 8.0 |
| 1-1/2" | 41.3 | 91 | 29 | 8.0 |
| 2" | 71.3 | 232 | 114 | 8.0 |
| 2-1/2" | 119.6 | 477 | 361 | 8.0 |
| 3" | 177.7 | 801 | 756 | 8.0 |
| 3-1/2" | 205.6 | 984 | 981 | 8.0 |
| 4" | 283.0 | 1625 | 1625 | 8.0 |
| 5" | 427.5 | 2948 | 2948 | 8.0 |
| 6" | 676.3 | 6436 | 6436 | 8.0 |

COLD WATER VELOCITY NOT TO EXCEED 8 FEET PER SECOND

## HOT WATER PIPE SIZING

| PIPE DIA. | GPM | FLUSH TANK FIXTURE UNIT | FLUSH VALVE FIXTURE UNIT | VELOCITY |
|---|---|---|---|---|
| 1/2" | 3.5 | 1 | -- | 5.0 |
| 3/4" | 7.5 | 3 | -- | 5.0 |
| 1" | 13.4 | 8 | -- | 5.0 |
| 1-1/4" | 19.6 | 20 | 6 | 5.0 |
| 1-1/2" | 27.5 | 44 | 10 | 5.0 |
| 2" | 46.4 | 113 | 41 | 5.0 |
| 2-1/2" | 72.3 | 237 | 117 | 5.0 |
| 3" | 115.6 | 456 | 340 | 5.0 |
| 3-1/2" | 141.2 | 593 | 489 | 5.0 |
| 4" | 186.7 | 860 | 828 | 5.0 |
| 5" | 284.1 | 1635 | 1635 | 5.0 |
| 6" | 437.7 | 3046 | 3046 | 5.0 |

HOT WATER VELOCITY NOT TO EXCEED 5 FEET PER SECOND

# PIPE MATERIAL SCHEDULE

DOMESTIC WATER PIPING ABOVE GRADE
TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS CONFORMING TO ASTM B 16.22. PROVIDE LABELING AND INSULATION.

DOMESTIC WATER PIPING UNDERGROUND OR BELOW SLAB:
TYPE "K" HARD COPPER TUBING ANNEALED, WITH NO FITTINGS CONFORMING TO ASTM B 88.

WASTE AND VENT PIPING:
ABOVE GRADE - PVC SCHEDULE 40 WITH PVC SCHEDULE 40 FITTINGS.
BELOW GRADE - PVC SCHEDULE 40 WITH PVC SCHEDULE 40 FITTINGS.

CONDENSATE DRAIN PIPING ABOVE GRADE:
TYPE "M" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS CONFORMING TO ASTM B 16.22. PROVIDE INSULATION AND LABELING

CONDENSATE DRAIN PIPING BELOW GRADE:
PVC SCHEDULE 40 PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID PVC VINYL COMPOUND A CELL CLASS OF 12454 AS IDENTIFIED IN ASTM D 1784

NATURAL GAS PIPING ABOVE GRADE:
SCHEDULE 40 BLACK STEEL, CONFORMING TO ASTM A53 WITH 150 PSIG MALLEABLE IRON THREADED FITTINGS CONFORMING TO ANSI/ASME B16.3. PROVIDE LABELING

GAS PIPING EXPOSED TO WHEATHER:
SCHEDULE 40 GALVANIZED STEEL, CONFORMING TO ASTM A53 WITH 150 PSIG MALLEABLE IRON THREADED FITTINGS CONFORMING TO ANSI/ASME B16.3. PROVIDE LABELING

GAS PIPING BELOW GRADE:
POLYETHYLENE WITH FUSION WELD JOINTS.

# PLUMBING FIXTURE SCHEDULE

| ITEM | LOCATION | WASTE | TRAP | VENT | CW | HW | MOUNT | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| WC-1A | MEN'S & WOMENS RESTROOM | 4" | 4" | 2" | ½" | -- | FLOOR | WATER CLOSET (FLUSH TANK): 1.28 GPF, ELONGATED BOWL, 12" ROUGH-IN. ADA COMPLIANCE |
| LV-1A | MEN'S & WOMENS RESTROOM | 2" | 2" | 2" | ½" | ½" | COUNTER | LAVATORY: Z5340 20" X 18" WALL HUNG LAVATORY ADA COMPLIANCE |
| HS-1A | BREAK ROOM | 2" | 2" | 1 ½" | ½" | ½" | COUNTER | HAND SINK: SINGLE COMPARTMENT SINK. SEE ARCHITECTURAL DRAWING SHEET A1.4 FOR SPECS AND EQUIPMENT PLAN |
| HS-2A | MANUFACTURING ROOM | 2" | 2" | 1 ½" | ½" | ½" | WALL | HAND SINK: SINGLE COMPARTMENT SINK. SEE ARCHITECTURAL DRAWING SHEET A1.4 FOR SPECS AND EQUIPMENT PLAN |
| CWB-1 | BREAK ROOM | 2" | 2" | 1 ½" | ½" | ½" | WALL | CLOHTESWASHER BOX: |
| MS-1 | HOUSE KEEPING, JANITOR'S RM. | 3" | 3" | 2" | 3/4" | 3/4" | FLOOR | MOP SINK: "ZURN" Z1996-24 MOP SERVICE BASIN 24 X 24 X 10 MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STRAINER AND 3 GASKETED OUTLET CONNECTION. CERTIFICATIONS: MEETS ANSI Z124.6, CSA LISTED,AND IAPMO LISTED UNDER FILE # 3561. |
| 3-COMP | MANUFACTURING ROOM | 3" | 3" | 2" | 3/4" | 3/4" | COUNTER | 3-COMPARMENT SINK: THREE COMPARTMENT 18 GAUGE STAINLESS STEEL SINK. SEE ARCHITECTURAL DRAWING SHEET A1.4 FOR SPECS AND EQUIPMENT PLAN |
| 2-COMP | CLONE ROOM | 3" | 3" | 2" | 3/4" | 3/4" | COUNTER | 2-COMPARMENT SINK: TWO COMPARTMENT 18 GAUGE STAINLESS STEEL SINK. SEE ARCHITECTURAL DRAWING SHEET A1.4 FOR SPECS AND EQUIPMENT PLAN |
| EEW-1 | MANUFACTURING ROOM | 3" | 3" | 2" | 3/4" | 3/4" | COUNTER | 2-COMPARMENT SINK: TWO COMPARTMENT 18 GAUGE STAINLESS STEEL SINK. SEE ARCHITECTURAL DRAWING SHEET A1.4 FOR SPECS AND EQUIPMENT PLAN |
| FD-1 | MEN'S & WOMEN'S RESTROOM | 2" | 2" | 2" | -- | -- | FLOOR | FLOOR DRAIN: "ZURN" Z415-BZ1-DP FLOOR AND SHOWER DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, STAINLESS STEEL DECK PLATE, AND TOP ASSEMBLY. EZ1 DRAINAGE SERIES IS ENGINEERED TO SIMPLIFY PRODUCT INSTALLATION, COMPRISED OF CONCRETE SHIELD TO PROVIDE UP TO 1-1/4" OF VERTICAL POST POUR ADJUSTMENT, PRE-PACKAGED SHIMS FOR TILT CORRECTION, AND INTEGRATED, SELF-CONTAINED "TYPE B" LIGHT DUTY STRAINER WITH ROUGH-IN COVER FOR PROTECTION DURING CONCRETE POUR.R |
| FD-2 | GROW ROOM VEG ROOM 2 | 3" | 3" | 2" | -- | -- | FLOOR | FLOOR DRAIN: "ZURN Z610" 12-1/2" SQUARE TOP DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY-DUTY CAST IRON LOOSE SLOTTED DURESIST GRATE, WITH SUSPENDED POLYPROPYLENE SEDIMENT BUCKET |

*COORDINATE PLUMBING FIXTURES WITH OWNER PRIOR TO PURCHASING AND INSTALLATION

# FIXTURE EQUIPMENT SCHEDULE

| ITEM | LOCATION | DESCRIPTION |
|---|---|---|
| TP 1 | SEE PLAN | TRAP PRIMER: "MIFAB" #M-500 PRESSURE DROP ACTIVATED, BRASS CONSTRUCTION, PROVIDE WITH M1-DU 4-WAY DISTRIBUTION UNIT (IF APPLICABLE), PROVIDE WITH ACCESS PANEL. |
| ET 1 | SEE PLAN | EXPANSION TANK: "FLEXCON" PH-12, 4.8 GALLONS CAPACITY, 11" DIAMETER x 14.5" HEIGHT, 10 LBS. MAXIMUM WORKING PRESSURE 150 PSI. FACTORY PRE-CHARGE 40 PSI. MAXIMUM WORKING TEMPERATURE 200°F. |
| CP 1 | SEE PLAN | CIRCULATING PUMP: "GRUNDFOS" MODEL ALPHA2 MAX 21 GPM, MAX 19FT OF HEAD 115 VOLTS SINGLE PHASE 1/6 HP .65 AMPS |
| TMV 1 | UNDERNEATH LAVATORY AND HAND SINK | TERMOSTAITC MIXING VALVE: "LEONARD" MODEL 170-LF SET @ 110 °F |


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FRESHMADE GROW
TENANT IMPROVEMENT
4517 LITTLEJOHN STREET
BALDWIN PARK, CA

PLUMBING FIXTURES AND CALCULATIONS

| DATE | REMARKS |
|---|---|
| 04/15/2021 | PLAN CHECK SUBMITTAL SET |

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KD NAVIEN

Premium Condensing
*Tankless Gas Water Heater*

# NPE Series Tankless Water Heaters
## Specification Sheet

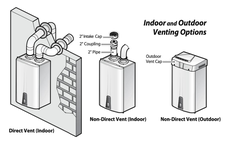
WH 1

- Certified design according to **ANSI Z21.10.3 - CSA 4.3-2015** standards for both indoor or outdoor installations (with optional Outdoor Vent Kit)
- Compatible with **1/2" gas pipe up to a length of 24 ft*** (*see Installation Manual for additional information*)
- Compatible with **2" PVC vent up to 60 ft**** and **150 ft**** using **3" PVC vent** (**with no elbows*)
- Designed for use in **Residential** and **Commercial** applications (*see below for available models and warranty terms*)
- Gas Input Ranges
  - **NPE-150** - 120,000 to 18,000 BTUh
  - **NPE-180** - 150,000 to 15,000 BTUh
  - **NPE-210** - 180,000 to 19,900 BTUh
  - **NPE-240** - 199,900 to 19,900 BTUh
- Hot Water Flow Rate Capacity (**based on 35°F temperature rise*)
  - **NPE-150** - 6.8 GPM
  - **NPE-180** - 8.4 GPM
  - **NPE-210** - 10.1 GPM
  - **NPE-240** - 11.2 GPM
- **Dual Primary and Secondary Stainless Steel Heat Exchangers** for optimum efficiency and durability
- **Built-in Control Panel** - allows adjustment of temperature settings and displays the operating status and error codes
- ~~Comfort~~Flow Technology - "A" models come included with built-in 0.5 gallon **Buffer Tank** and **Recirculation Pump** to provide maximum comfort
- **INTELLIGENT Preheating** - recognizes hot water usage patterns to intelligently provide hot water when needed **(optional for "A" models)**
- **Temperature Options** - available temperature settings for *Residential* applications range from 98°F up to 140°F with high temperature *Commercial* mode capable of up to 182°F
- **Ready-Link Cascade Compatible** for up to 16 units for increased hot water production
- **Common Vent Compatible** - allows for cascade systems to use a single exhaust and/or intake pipe for up to 8 units with the use of the Common Vent Backflow Damper Collar Kit (#300916367A)
- Compatible with NaviLink Wi-Fi Control (#PBCM-AS-001)
- **Freeze Protection** - maintains normal operation during freezing ambient temperatures down to -5°F (standard on all models)
- **Uniform Energy Factor Ratings** for NG and LP units
  - **NPE-180A/210A/240A** - 0.96 UEF (0.97 EF for Canada)
  - **NPE-150S** - 0.96 UEF (0.97 EF for Canada)
  - **NPE-180S/210S/240S** - 0.97 UEF (0.99 EF for Canada)
- Compatible with **Natural Gas (NG)** and **Propane (LPG)***** (**** requires installation of included Field Conversion Kit by a qualified gas service*)
- Approved for Installations on **Mobile/Manufactured Homes**
- Certified by **CSA, NSF 5, AHRI, ABI953** CA Low Lead, **SCAQMD** *(Rule 1146.2 Type I – Complies with 14 ng/J or 20 ppm NOx @ 3% O2)*
- **15-Year** Heat Exchanger and **5-Year** Parts Warranty (Residential)**** **8-Year** Heat Exchanger and **5-Year** Parts Warranty (Commercial)**** (***** see Navien Limited Warranty*)
- **Optional accessories** are available *(see below)*

*Sleek Design - Compatible with 2" PVC Vent and 1/2" Gas Pipe*




*Built-In Control Panel with Diagnostics*




*Indoor and Outdoor Venting Options*

| Remote Controller | Plumb Easy Valve Set (3/4") | Condensate Neutralizer | Ready-Link Communication Cable | Outdoor Vent Kit | External Pump Wire | 3" Vent Termination Caps and Wall Flanges |
|---|---|---|---|---|---|---|
| NR-20DU (300097574) | (300093123A - Lead Free) (300123A01A - Nur Pipe Cover) | (GXX0001322 - Single Unit) (GXX0001324 - Up to 6 Units) (GXX0001325 - Up to 16 Units) | (GXX0005546) | (300116044A) | (GXX0001319) | (GXXX38138) |

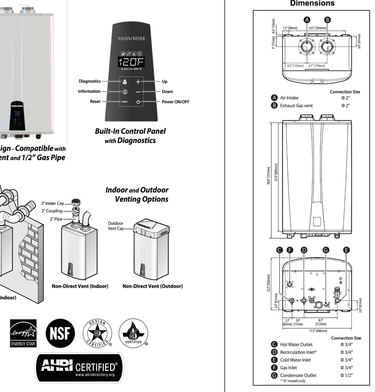
*Job Name:* _____
*Location:* _____
*Engineer:* _____
*Wholesaler:* _____
*Contractor:* _____
*Model No.:* _____
*Submitted to:* _____

KD NAVIEN

Premium Condensing
*Tankless Gas Water Heater*

NPE Series Tankless Water Heaters
**Specification Sheet**

**Dimensions**




**Specifications**

| Item | | NPE-150S | NPE-180A | NPE-180S | NPE-210A | NPE-210S | NPE-240A | NPE-240S |
|---|---|---|---|---|---|---|---|---|
| Heat Capacity (Input) | Natural Gas | 18,000-120,000 BTU/H | 15,000-150,000 BTU/H | | 19,900-180,000 BTU/H | | 19,900-199,900 BTU/H | |
| | Propane Gas | | 15,000-150,000 BTU/H | | 19,900-180,000 BTU/H | | 19,900-199,900 BTU/H | |
| Efficiency Ratings | UEF (for NG & LP) | 0.96 | 0.96 | 0.97 | 0.96 | 0.97 | 0.96 | 0.97 |
| | EF (Canada) (for NG & LP) | 0.97 | 0.97 | 0.99 | 0.97 | 0.99 | 0.97 | 0.99 |
| Flow Rate (DHW) | 35°F (19°C) Temp Rise | 6.8 GPM (26 L/m) | 8.4 GPM (32 L/m) | | 10.1 GPM (38 L/m) | | 11.2 GPM (42 L/m) | |
| | 45°F (25°C) Temp Rise | 5.3 GPM (20 L/m) | 6.5 GPM (25 L/m) | | 7.8 GPM (30 L/m) | | 8.7 GPM (33 L/m) | |
| | 67°F (36°C) Temp Rise | 3.2 GPM (12 L/m) | 4.3 GPM (16 L/m) | 4.2 GPM (16 L/m) | 5.0 GPM (19 L/m) | 5.2 GPM (20 L/m) | 5.6 GPM (21 L/m) | 5.7 GPM (22 L/m) |
| Dimensions | | 17.3"(W) x 27.4"(H) x 13.2"(D) | | | | | | |
| Weight | | 55 lbs (25kg) | 75 lbs (34kg) | 67 lbs (30kg) | 82 lbs (37 kg) | 75 lbs (34kg) | 82 lbs (37 kg) | 75 lbs (34kg) |
| Installation Type | | Indoor or Outdoor Wall-Hung | | | | | | |
| Venting Type | | Forced Draft, Direct Vent | | | | | | |
| Ignition | | Electronic Ignition | | | | | | |
| Water Pressure | | 15-150 PSI | | | | | | |
| Natural Gas Supply Pressure (from source) | | 3.5 in WC-10.5 in WC | | | | | | |
| Propane Gas Supply Pressure (from source) | | 8 in WC-13in WC | | | | | | |
| Natural Gas Manifold Pressure (min-max) | | -0.04 in WC - -0.38 in WC | -0.04 in WC - -0.84 in WC | | -0.05 in WC - -0.36 in WC | | -0.05 in WC - -0.58 in WC | |
| Propane Gas Manifold Pressure (min-max) | | -0.04 in WC - -0.42 in WC | -0.05 in WC - -0.50 in WC | | -0.10 in WC - -0.66 in WC | | -0.10 in WC - -0.78 in WC | |
| Minimum Flow Rate | | 0.5 GPM (1.9 L/m), < 0.01 GPM (0.04 L/m) option for "A" models* | | | | | | |
| Connection Sizes | Cold Water Inlet | 3/4 in NPT | | | | | | |
| | Hot Water Outlet | 3/4 in NPT | | | | | | |
| | Gas Inlet | 3/4 in NPT | | | | | | |
| Power Supply | Main Supply | 120V AC, 60Hz | | | | | | |
| | Maximum Power Consumption | 200W (max 2A), 150W (max 4A) with external pump connected | | | | | | |
| Materials | Casing | Cold Rolled Carbon Steel | | | | | | |
| | Heat Exchangers | Primary Heat Exchanger: Stainless Steel<br>Secondary Heat Exchanger: Stainless Steel | | | | | | |
| Venting | Exhaust | 2" or 3" PVC, CPVC, Polypropylene<br>2" or 3" Special Gas Vent Type BH (Class II, A/B/C) | | | | | | |
| | Intake | 2" or 3" PVC, CPVC, Polypropylene<br>2" or 3" Special Gas Vent Type BH (Class II, A/B/C) | | | | | | |
| | Vent Clearances | 0" to combustibles | | | | | | |
| Safety Devices | | Flame Rod, APS, Ignition Operation Detector, Water Temperature High Limit Switch, Exhaust Temperature High Limit Sensor, Power Surge Fuse | | | | | | |

** Available for "A" models configured in an optional Comfort~~Flow~~ recirculation mode. Additional energy use will occur when using recirculation.*

*Gas-fired, tankless, condensing, wall-mounted water heater(s) shall be direct vent NPE Series models as manufactured by Navien, Inc. and are certified by CSA Group to the latest edition of ANSI standard Z21.10.3/CSA 4.3. Water heater(s) is designed for both Residential and Commercial applications and shall have a 15-year limited Heat Exchanger warranty and 5-year limited Parts warranty (8-year Heat Exchanger and 5-year Parts for Commercial use) per Navien Limited Warranty. Unit(s) shall be designed to burn natural gas and can be for use with propane when a Field Conversion Kit is installed. Water heater(s) shall have a nominal flow rate capacity of _____ GPM/GPH at _____ °F rise with rated input of _____ BTU/hr. Water heater(s) shall be vented with 2" PVC/CPVC vent pipe at a distance not to exceed 60' (or equivalent) with each elbow equal to 4' of pipe length or 3" PVC/CPVC vent pipe at a distance of 150' (or equivalent) with each elbow equal to 5' of pipe length. Water heater(s) is rated for 150 PSI working water pressure and 200 PSI test pressure. Gas supply pressure shall be 3.5" to 10.5" WC for natural gas and 8.0" to 13.0" WC for propane. Unit(s) shall have a steel case, dual stainless steel heat exchangers, eco premixed burner, negative pressure gas valve, dual venturi, 3/4" inlet gas connection, 3/4" brass inlet/outlet water connections, water holding capacity of 0.6 gallons for the NPE-150S, 1.0 gallon for the NPE-180A model (0.7 gallons for NPE-180S model), 1.2 gallons for the NPE-210A/NPE-240A models (0.7 and 0.9 gallons for NPE-210S and NPE-240S models respectively), and a condensate collector. The NPE-150S model weighs 55 lbs, the NPE-180A model weighs 75 lbs (NPE-180S weighs 67 lbs), and the NPE-210A/NPE-240A models weigh 82 lbs (NPE-210S and NPE-240S weigh 75 lbs). Unit(s) shall include features such as an adjustment for installations at high elevation, temperature lockout, and temperature options from 98-120°F in 1°F intervals and 125-140°F in 5°F intervals. The unit(s) shall include additional temperature options of 150-180°F in 10°F intervals, and 182°F for high temperature commercial applications. All NPE "A" models shall include an internal circulation pump and 0.5 gallon buffer tank. The water heater(s) shall be controlled by an internal circuit board that monitors the inlet and outlet temperatures with installed thermistors, sensing and controlling flow rate to set point temperature with air-fuel ratio controls in order to maintain thermal combustion efficiency. Unit(s) shall include safety features such as flame sensor system, high limit sensors, overheat prevention device, freeze protection mode, and fan motor rotation detector. Multi-system (cascade) applications that require 2 to 16 units shall be installed by connecting the units using cable-only connections (Ready-Link). Cascade systems can be common vented with up to 8 units when a Common Vent Backflow Damper Collar Kit is installed. The water heater(s) exceeds the energy efficiency requirements of ASHRAE 90.1-2013 and is listed by SCAQMD rule 1146.2 (Type 1) for Low NOx that complies with 14 ng/J or 20 ppm NOx requirements @ 3% O2.*

***Navien reserves the right to change specifications at any time without prior notice***

**Navien, Inc.** 20 Goodyear, Irvine, CA 92618 Ph: (949)420-0420 Fax: (949)420-0430 www.Navien.com

Rev- 5/18

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# FRESHMADE GROW

TENANT IMPROVEMENT
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PLUMBING FIXTURES

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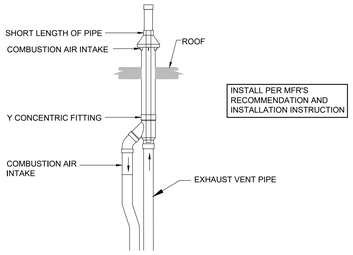
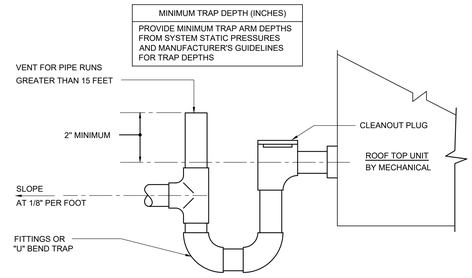


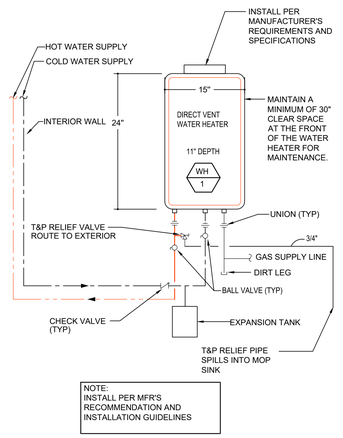

## CONCENTRIC VENT DETAIL THRU ROOF 8

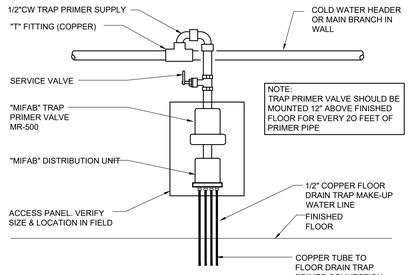
SCALE: NONE




## CONDENSATE DRAIN DETAIL 3

SCALE: NONE



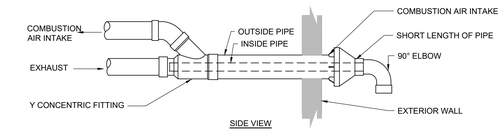



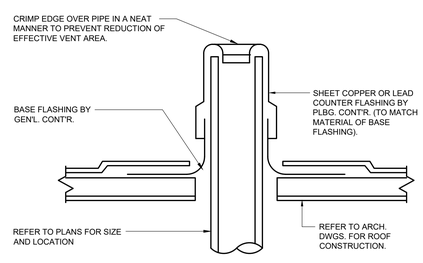

## TRAP PRIMER DETAIL 4

SCALE: NONE

## TANKLESS GAS WATER HEATER DETAIL 1

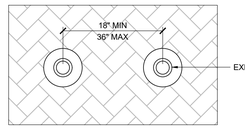
SCALE: NONE




## VENT THRU DETAIL 5

SCALE: NONE




## CONCENTRIC VENT DETAIL THRU WALL 2

SCALE: NONE



- Non-Concentric Sidewall Venting - Air is drawn from a different location that is at least 12 in (300 mm) away from the exhaust termination. The exhaust termination can be located either on the sidewall or roof. Try to minimize the length of the intake air pipe when installing the vent.



*12" (300mm) above the highest anticipated snow level, or as required by local codes, whichever is greater.

- Concentric Sidewall Venting



- Concentric Vertical Venting



**Note** For cascade applications, the required horizontal clearance between terminations is 12" for both sidewall and vertical venting installations.

Do not vertically stack concentric terminations on sidewalls.

- Low Profile Two-Pipe Sidewall Venting*



* IPEX and Centrotherm Low Profile terminations only

** Clearance above highest anticipated snow level or grade, or as required by local codes, whichever is greater.

**Note** Only the following orientations are allowed for twin pipe terminations.

- Two-Pipe Snorkel Sidewall Venting

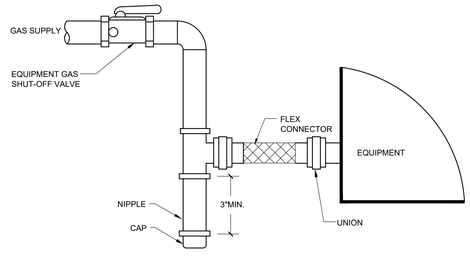


* Clearance above highest anticipated snow level or grade, or as required by local codes, whichever is greater.

42 Installing the Water Heater

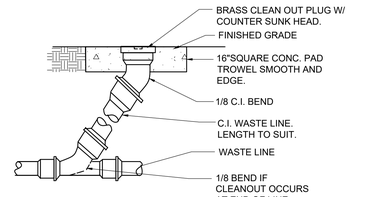
## VENT TERMINATION DTAIL 10

SCALE: NONE



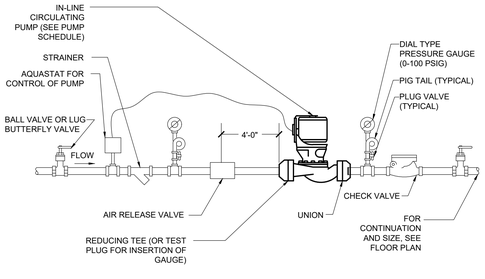

## GAS CONNECTION DETAIL 6

SCALE: NONE




## FLOOR CLEAN OUT DETAIL 3

SCALE: NONE




## CIRCULATING PUMP DETAIL 7

SCALE: NONE

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# FRESHMADE GROW

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PLUMBING TYPICAL DETAILS

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PLUMBING FLOOR PLAN LEVEL 1 - WASTE & VENT (1)
SCALE: 1/8"=1'-0"

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PLUMBING FLOOR PLAN LEVEL 1
WASTE AND VENT

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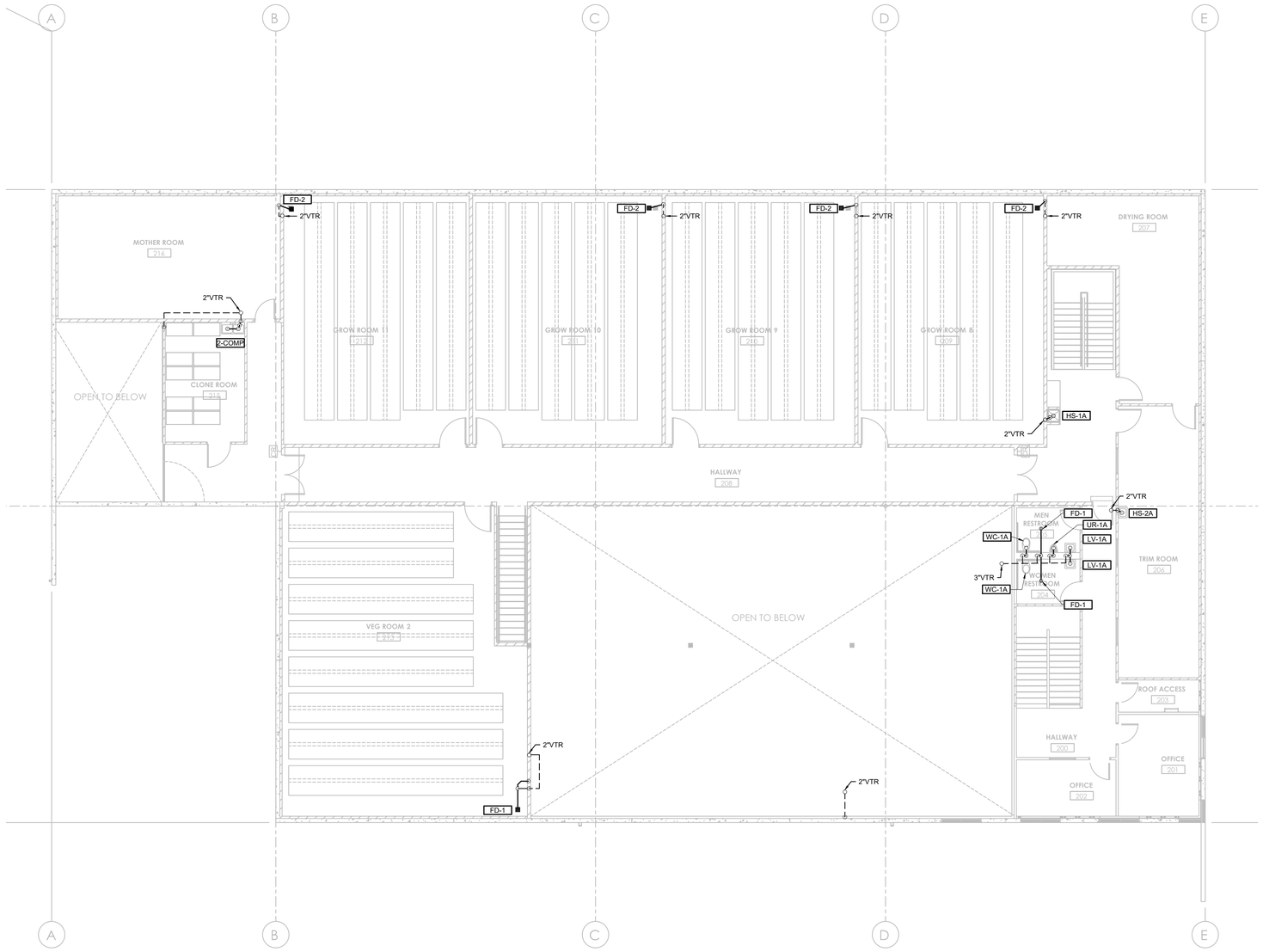


PLUMBING FLOOR PLAN LEVEL 2 - WASTE & VENT (1)
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PLUMBING FLOOR PLAN LEVEL 2
WASTE AND VENT

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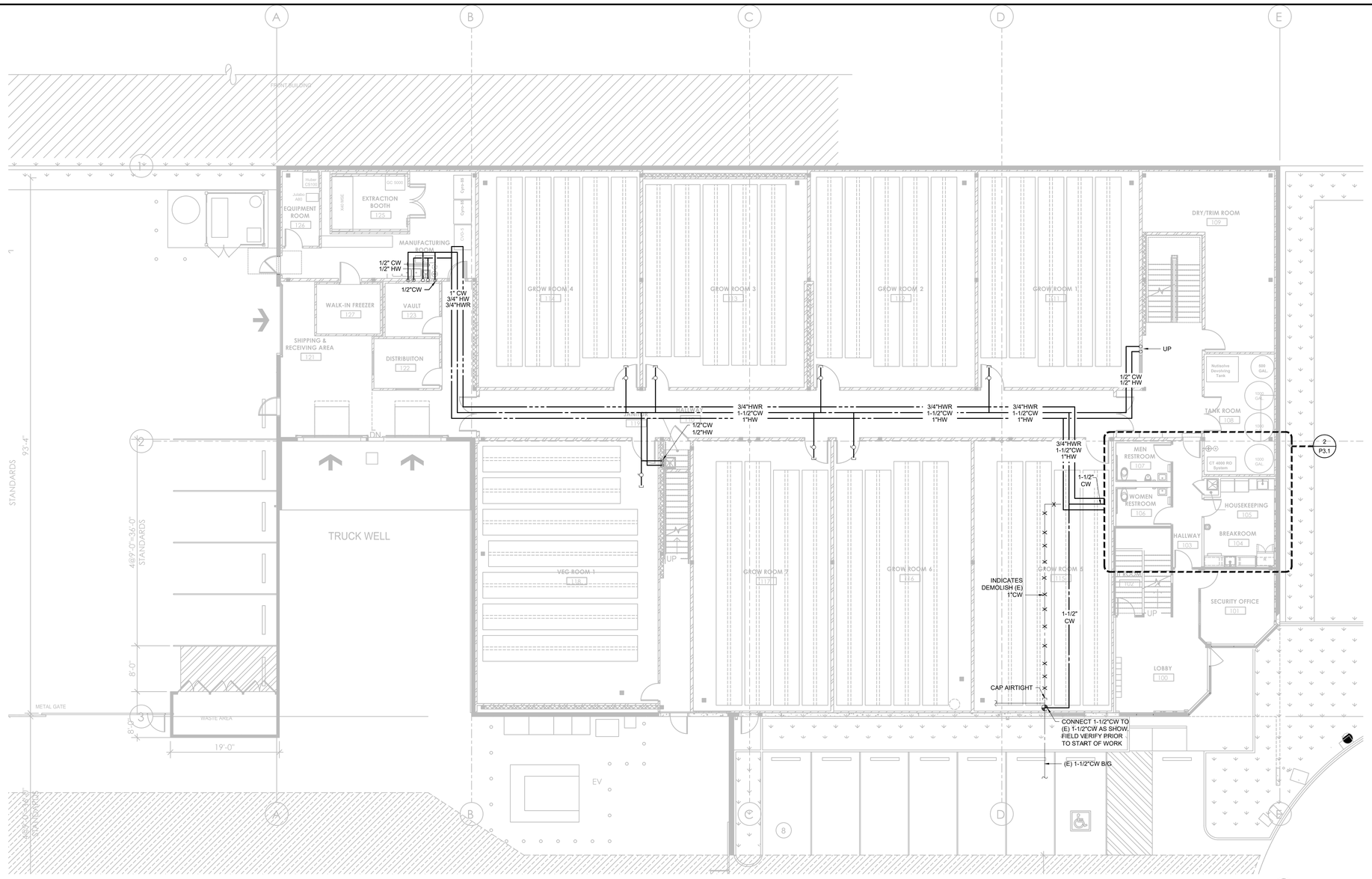
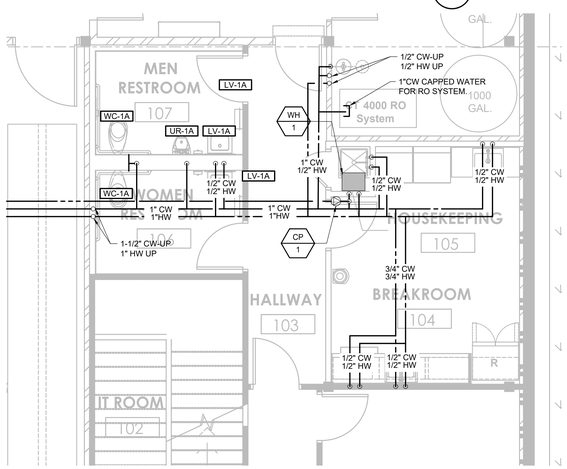



PLUMBING FLOOR PLAN LEVEL 1 - WATER 1
SCALE: 1/8"=1'-0"




PLUMBING PARTIAL FLOOR PLAN LEVEL 1 - WATER 2
SCALE: 1/4"=1'-0"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PLUMBING FLOOR PLAN LEVEL 1
WATER

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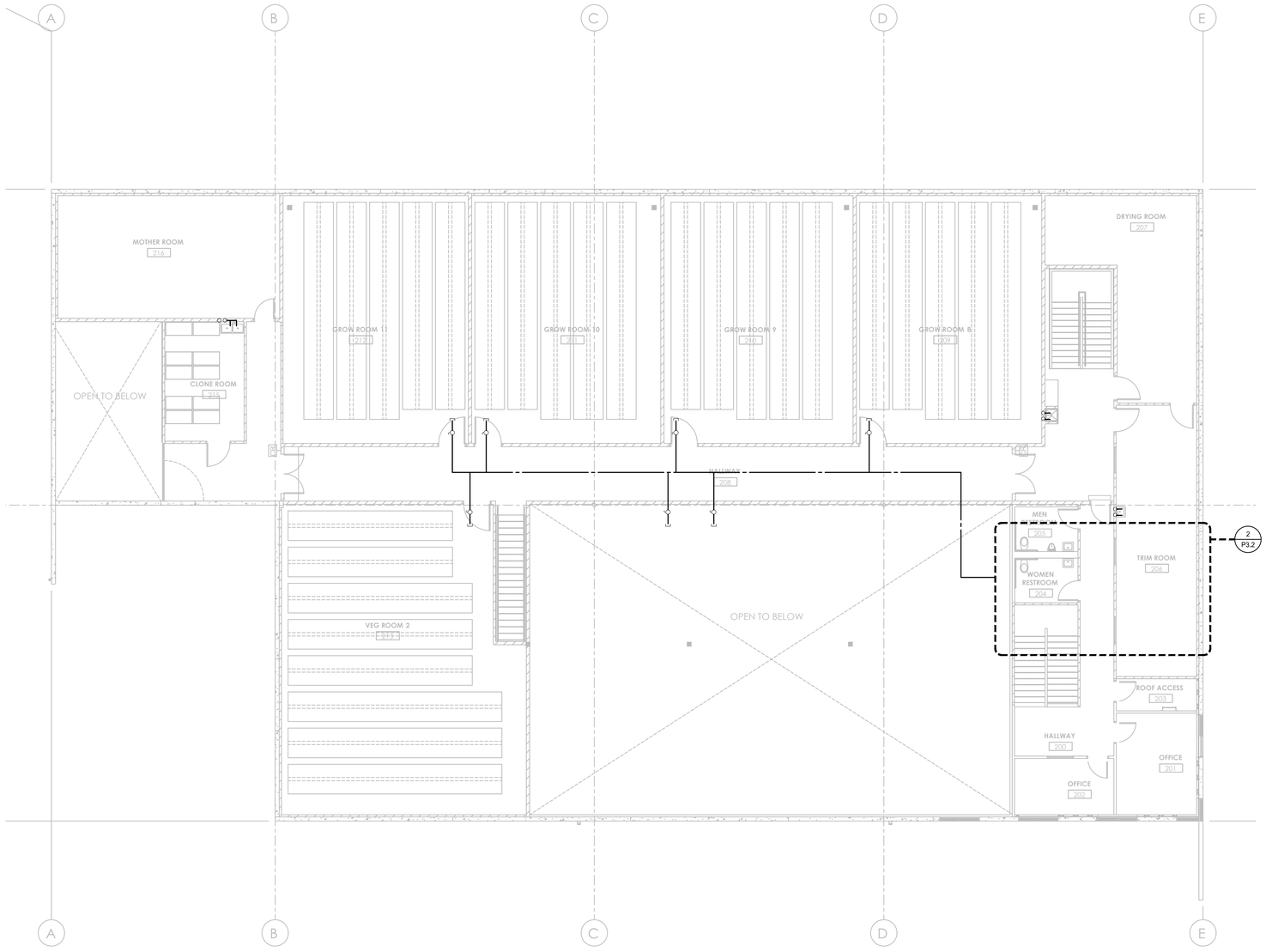
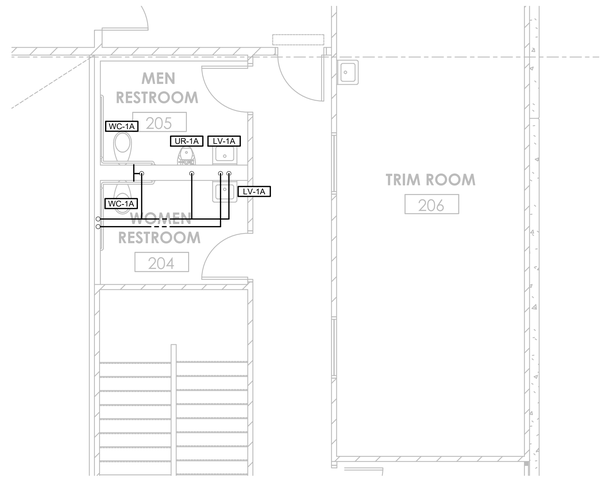



PLUMBING FLOOR PLAN LEVEL 2 - WATER
SCALE: 1/8"=1'-0" 1

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**The 301C Controller continuously monitors and controls toxic, combustible, and refrigerant gases as well as oxygen. Rely on the 301C for safety, energy efficiency, and easy installation of your gas detection network.**

Using an addressable RS-485 communication protocol, the 301C uses daisy chain wiring to connect up to 96 transmitters in three loops. This simplifies installation, in turn lowering costs. The 301C's powerful zoning, voting, and averaging abilities significantly reduce operational and maintenance costs. And what's more, the newly updated 301C cuts commissioning time and hassle.

### Flexible Logic Capabilities Reduce Operational Costs

Choose the 301C as the centerpiece for building a gas detection network compliant with the industry's most demanding safety and energy guidelines, such as California Title 24 Part 6. The 301C controller offers automatic sensor identification and unique zoning capabilities which permit the grouping of multiple sensor readings. Readings from transmitters in a given zone can be evaluated via averaging or voting. For example, voting can be used to activate fans only when one-third of the sensors in a zone report gas. This can avoid an excessive response to a single car idling. Time delays can be configured at the leading edge of a gas response (to prevent false alarms) or on the trailing edge (to reduce power cycling of a fan.) Outlier detection can be used to identify when a single sensor reading is higher than others. Responses can also be made conditional on time of day, day of week, or other external input. This flexibility can precisely match the needs of each installation, thus saving energy and extending equipment life.

### User Friendly
- Zero maintenance
- Automatic quick self-test and warm-up
- Continuous alphanumeric display

### Inexpensive, Reliable and Energy Efficient
- Low installation costs
- Allows for up to 126 zoning groups which can save energy and extend fan and relay life
- Manages up to 180 events with programmable latching alarms
- California Title 24 network option

### Flexible Operation
- BACnet/IP available
- Interchangeable transmitters able to detect different gases
- Expands to handle up to 96 transmitters or relay modules
- Programmable time delays
- Integrated time clock enables scheduling of system operations

### Safety Measures
- Full array of visual indicators and integrated 65dBA alarm levels
- Fully programmable relays (can be set as fail-safe or not)

### Beneficial Options
- Available in a heavy duty industrial housing (model number 96D)
- Datalogging option

BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International. BIL is a registered trademark of BIL.

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Toll free: 800.538.0363
Fax: 847.955.8210
haservice@honeywell.com

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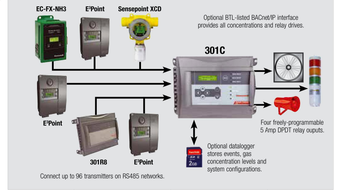
**The 301C Controller: Centerpiece of a Complete Gas Detection Network for the Intelligent Building**

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DS0105_v7 7/15


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## Viking BLK-4-EWP Weatherproof Blue Strobe Light

VIKING Authorized Online Reseller

(//cdn3.volusion.com/2hew6.esfv2/vnspfiles/photos/BLK-4-EWP-2.jpg?1527830524)

VIKING BLK-4-EWP


(//cdn3.volusion.com/2hew6.esfv2/vnspfiles/photos/BLK-4-EWP-2.jpg?1527830524)


### Viking BLK-4-EWP Blue Strobe

**Product Condition:** Brand New
**Warranty:** 1-year
**Brand:** Viking Electronics
**Manufacturer Part Number:** BLK-4-EWP
**UPC:** 615687225242

Description

### Viking BLK-4-EWP

The Viking BLK-4-EWP is a weatherproof blue LED strobe light. The light also includes a control module and single gang mounting box. Use the light to indicate when an emergency phone is calling or has been engaged. The control module lets phones with a second "Info" button route calls through without activating the light. Surface mount or flush mount the light with the single gang box.

Program the Viking BLK-4-EWP light with four flash patterns and six brightness settings. Customize the light to indicate ringing, off-hook or other trigger from a contact closure. The light is ideal for warehouses and factories, as well as parking lots and campuses. The weatherproof nature of the light means that you can mount it outdoors or in messy environments.

### Viking BLK-4-EWP Strobe Light Quick Specs:

- **Power:** via AC adapter
- **Strobe Dimensions:** 4.38" x 2.75"
- **Control Module Dimensions:** 2.9" x 2.1" x 1.0"
- **Operating Temperature:** -15° to 130° F
- **Min. Loop Current:** 15 mA
- **Min. Ring Voltage:** 25V RMS
- **Ringer Equivalence:** 0.5 A REN
- **Strobe Flash Rate:** 60 flashes per minute
- **Connections:** gel-filled butt connectors

**Viking Electronics BLK-4-EWP Blue Light Package Contents:**

- Viking SL-2-EWP blue LED strobe light
- Control module
- Power adapter
- 16x gel-filled butt connectors
- Single gang mounting box
- Gaskets and hardware

Honeywell

12/04/2021 5:28:51 PM

# C7232A,B Sensor and Controller

CARBON DIOXIDE SENSOR

**PRODUCT DATA**

## FEATURES

- **Used for $CO_2$ based ventilation control.**
- **Models available with LCD that provides sensor readings and status information.**
- **Non-Dispersion-Infrared (NDIR) technology used to measure carbon dioxide gas.**
- **Device provides voltage or current output based on $CO_2$ levels.**
- **Models available with SPST relay output.**
- **Automatic Background Calibration (ABC) algorithm based on long-term evaluation reduces required typical zero-drift check maintenance.**

## APPLICATION

The C7232 Sensor and Controller is a stand-alone carbon dioxide ($CO_2$) sensor for use in determining ventilation necessity with HVAC controllers. The C7232 measures the $CO_2$ concentration in the ventilated space or duct. The C7232 is used in ventilation and air conditioning systems to control the amount of fresh outdoor air supplied to maintain acceptable levels of $CO_2$ in the space.

**Contents**


Application ..... 1
Features ..... 1
Specifications ..... 2
Installation ..... 3
Ordering Information ..... 2
Wiring ..... 4
Checkout ..... 5
Appendix ..... 6


63-2571-16

# KEY NOTES:

CO2 TANK PROVIDED BY OWNER. REFER TO ARCH SITE PLAN FOR EXACT LOCATION.

# GENERAL NOTES:

1. INSTALL EQUIPMENT AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND CLEARANCES.

# GENERAL NOTES - CO2

1. ALL STROBE LIGHTS, EXHAUST AND INTAKE FANS ARE HOOKED UP TO THE CONTROL MAIN AND ENGAGE WHEN THE PPM'S EXCEED 1,500 PPM.
2. CORROSIVE MATERIALS CONSIST OF HYDROGEN PEROXIDE AND ISOPROPYL ALCOHOL.
3. REFER TO MECHANICAL SHEETS FOR VENTILATION LAYOUT.
4. CFC 5503.4.5 IDENTIFICATION OF PIPING SYSTEMS. PIPING SYSTEMS SHALL BE IDENTIFIED IN ACCORDANCE WITH ASME A13.1. MARKINGS USED FOR PIPING SYSTEMS SHALL CONSIST OF THE CONTENT'S NAME AND INCLUDE A DIRECTION-OF-FLOW ARROW. MARKINGS SHALL BE PROVIDED AT EACH VALVE; AT WALL, FLOOR OR CEILING PENETRATIONS; AT EACH CHANGE OF DIRECTION; AND AT NOT LESS THAN EVERY 20 FEET OR FRACTION THEREOF THROUGHOUT THE PIPING RUN.
5. CFC 5003.5 HAZARD IDENTIFICATION SIGNS. VISIBLE HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN NFPA 704 FOR THE SPECIFIC MATERIAL CONTAINED SHALL BE PLACED ON STATIONARY CONTAINERS AND ABOVEGROUND TANKS AND AT ENTRANCES TO LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED, DISPENSED, USED OR HANDLED IN QUANTITIES REQUIRING A PERMIT

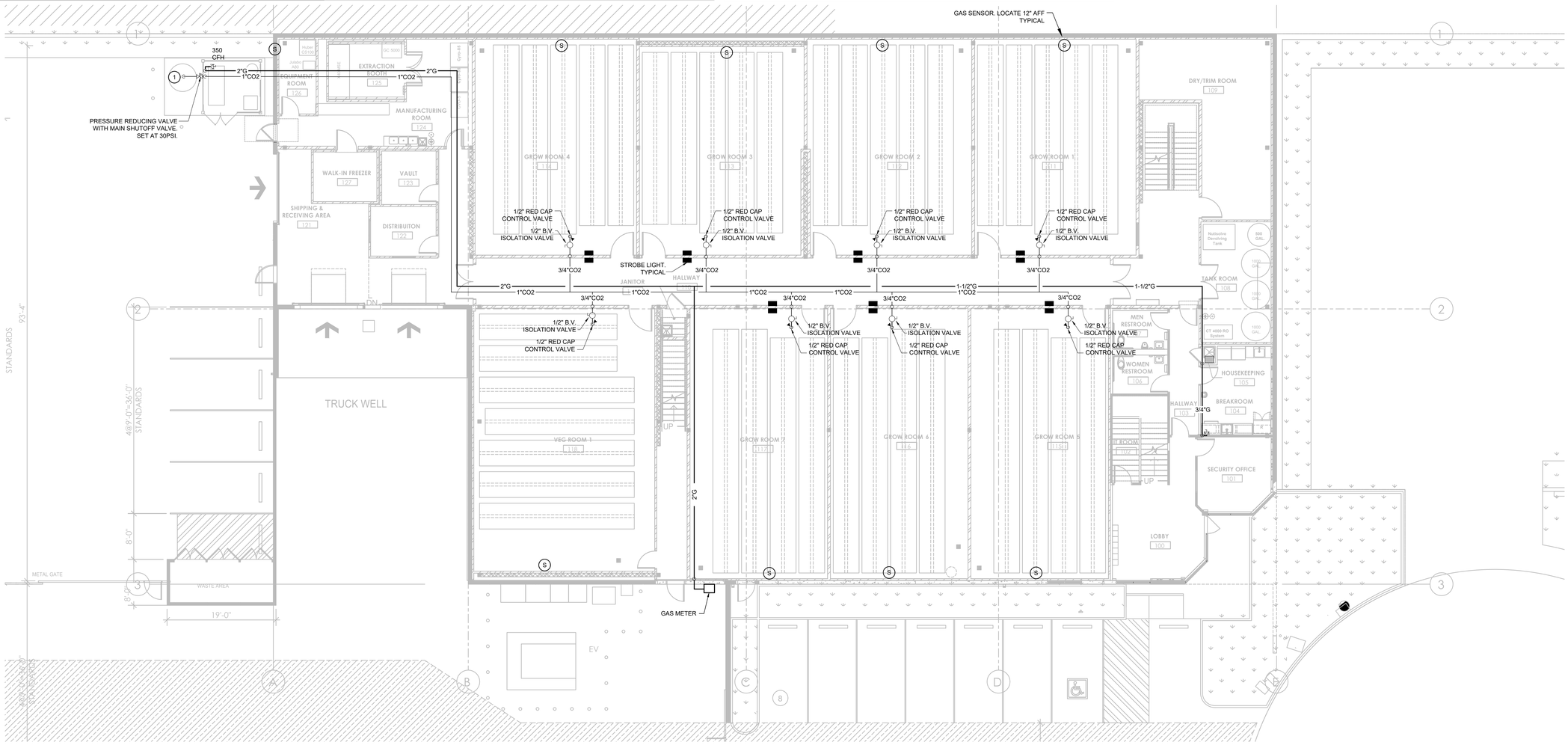
## GAS PIPING CHART

| PIPE Ø | CFH |
|---|---|
| 1/2" | 25 |
| 3/4" | 53 |
| 1" | 99 |
| 1-1/4" | 203 |
| 1-1/2" | 305 |
| 2" | 587 |

LOW PRESSURE GAS BASE ON CPC TABLE 12-8 NFPA 54 TABLE 6.2(e) @ 350 FT.

## GAS LOAD

| QUANTITY | DESCRIPTION | CFH | TOTAL |
|---|---|---|---|
| 1 | WATER HEATER | 200 | 200 |
| 1 | GAS GENERATOR | 350 | 350 |
| 1 | CLOTHES DRYER | 35 | 35 |
| | GRAND TOTAL | | 585 |




PLUMBING FLOOR PLAN LEVEL 1 - GAS (1)
SCALE: 1/8"=1'-0"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# FRESHMADE GROW

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BALDWIN PARK, CA

PLUMBING FLOOR PLAN LEVEL 1 GAS

| REMARKS | DATE |
|---|---|
| PLAN CHECK SUBMITTAL SET | 04/15/2021 |

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JOB NO.: XXXX

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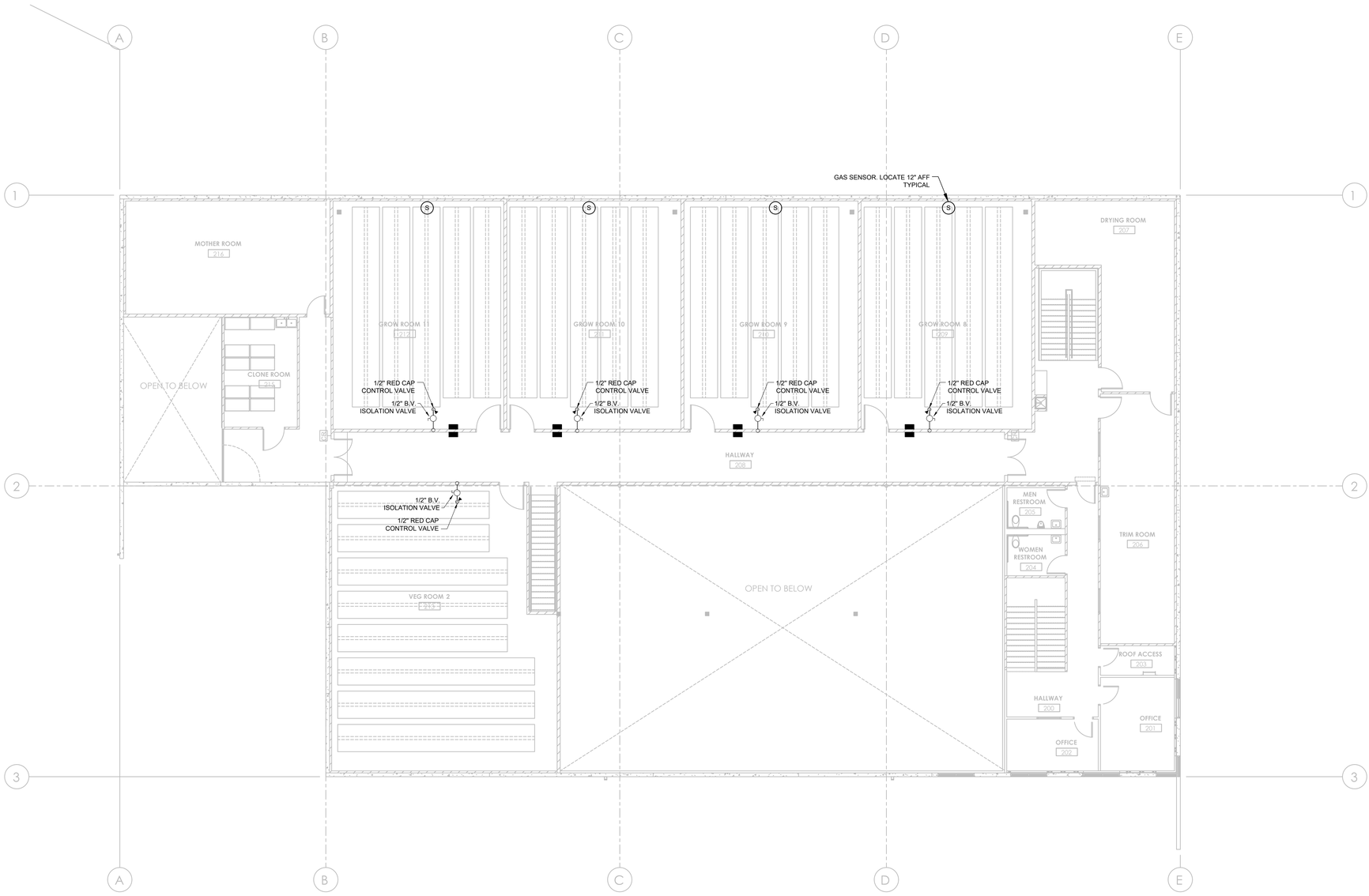


PLUMBING FLOOR PLAN LEVEL 2 - GAS (1)
SCALE: 1/8"=1'-0"


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PLUMBING FLOOR PLAN LEVEL 2
GAS

| REMARKS | DATE |
|---|---|
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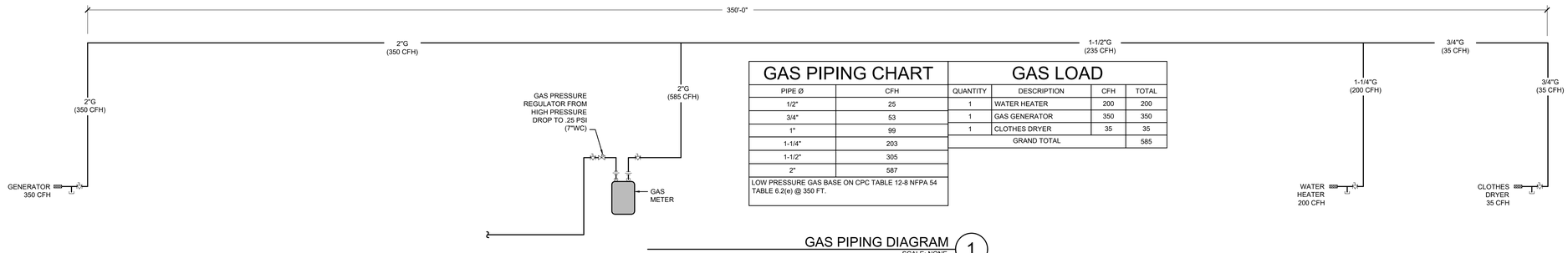


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GAS PIPING DIAGRAM 1
SCALE: NONE

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PLUMBING DIAGRAM

| DATE | REMARKS |
|---|---|
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