SYMBOLS LIST

LIGHTING FIXTURE DESCRIPTION:
SEE ARCHITECTURAL DRAWINGS AND CUT SHEETS FOR INFORMATION.
(SEE LIGHTING PLANS FOR MORE INFORMATION).

S_a SINGLE POLE WALL SWITCH, MOUNTED +36" AFF
- 2 = DOUBLE POLE
- 3 = THREE WAY
- 4 = FOUR WAY
- a = CONTROLLING OUTLET OF FIXTURE "a"
- TO = MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION

QUADRUPLEX CONVENIENCE RECEPTACLE, FLUSH WALL MOUNTED,

DUPLEX CONVENIENCE RECEPTACLE. FLUSH WALL MOUNTED "GFI" DENOTES WITH GROUND FAULT INTERRUPTER

SIMPLEX CONVENIENCE RECEPTACLE. FLUSH WALL MOUNTED

SPECIAL PURPOSE RECEPTACLE. FLUSH WALL MOUNTED. PROVIDE NEMA CONFIGERATION PER EQUIPMENT MANUFACTURER'S REQUIREMENT.

(J) CEILING MOUNTED JUNCTION BOX

(J) FLUSH WALL MOUNTED JUNCTION BOX

CONCEALED CONDUIT UON.

CONDUIT TURNING UP

CONDUIT TURNING DOWN

CAPPED CONDUIT

PER LIGHTING PLANS

3/4" IN CONDUIT WITH 2 #12 WIRES

3/4" IN CONDUIT WITH 3 #12 WIRES (UON)

3/4" IN CONDUIT WITH 4 #12 WIRES (UON)

3/4 IN CONDUIT WITH 5 #12 WIRES (UON)

3/4 IN CONDUIT WITH 6 #12 WIRES (UON)

PER POWER PLANS

3/4" IN CONDUIT WITH 2 #12 & 1 #12 GROUND WIRE

3/4" IN CONDUIT WITH 2 #12, 1 #10 NEUTRAL WIRE & 1 #12 GROUND WIRE

3/4" IN CONDUIT WITH 3 #12, 1 #10 NEUTRAL WIRE & 1 #12 GROUND WIRE

GROUND CONNECTION

PA1–1,3,5 CONDUIT HOMERUN TO PANELBOARD "P1A" WITH CIRCUITS 1,3,5

(J) CEILING MOUNTED JUNCTION BOX

(J) FLUSH WALL MOUNTED JUNCTION BOX

S_M MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION

100/60 DISCONNECT SWITCH–100A SWITCH, 60A FUSES. UNFUSED EXCEPT WHERE FUSE SIZE IS INDICATED, 3 POLE EXCEPT WHERE NOTED.

SURFACE MOUNTED PANELBOARD

FRONT FLUSH MOUNTED PANEL BOARD

TRANSFORMER

(M) MOTOR

ENCLOSED CIRCUIT BREAKER

SYMBOL TAG DESIGNATION

N = NEW
E = EXISTING
ER = EXISTING TO BE REMOVED OR RELOCATED
R = RELOCATED

FIRE ALARM AND LIFE SAFETY NOTES

1. ALL FIRE ALARM LIFE SAFETY WORK MUST BE PERFORMED BY BUILDING APPROVED CONTRACTOR.
2. CONTRACTOR SHALL PROVIDE AND SUBMIT FIRE ALARM SAFETY CONSTRUCTION DOCUMENTS FOR ALL AGENCY PLAN CHECK REQUIREMENTS. APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF THE SYSTEM. INTERCONNECTING WIRING AND CONDUIT SIZES ARE NOT INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING RACEWAY, WIRING PLANS, VOLTAGE DROP CALCULATION, DEVICE SPECIFICATION INCLUDING CSFM NUMBER, AND COMPLETE ONE LINE DIAGRAM OF THE SYSTEM.
3. CONTRACTOR SHALL PROVIDE AS PART OF FIRE ALARM SYSTEM:
   a. CONSTRUCTION DOCUMENT AND SHOP DRAWINGS.
   c. SUBMIT AND SECURE FIRE MARSHAL APPROVAL.
   e. COORDINATE WITH ARCHITECT FOR ALL WALL/CEILING MOUNTED DEVICES.
4. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE AND APPLICABLE "NFPA" STANDARDS.
5. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY.
6. COORDINATE THE LOCATION OF ALL DEVICES WITH ARCHITECT.
7. NO DOOR HARDWARE THAT REQUIRES SPECIAL KNOWLEDGE SHALL BE USED UNLESS APPROVED BY BUILDING OFFICIAL AND FIRE DEPARTMENT. ALL DOORS WITH CARD READER SHALL BE FAIL SAFE AND UNLOCKED UPON ACTIVATION OF FA SYSTEM.
8. APPROVED FIRE/LIFE/SAFETY VENDOR.

FIRE ALARM SYSTEM SHALL BE SUBMITTED UNDER A SEPARATE PERMIT

ELECTRICAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2007 CALIFORNIA ELECTRICAL CODE, TITLE–24 – 2005 CALIFORNIA ENERGY EFFICIENCY STANDARDS AND CITY OF SANTA MONICA APPLICABLE CODES AND REGULATIONS.
2. THE DRAWINGS INDICATE, IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF THE COMPONENTS OF THE ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORT AND UNDEFINED CONSTRUCTION DETAILS, AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
3. THE CONTRACTOR SHALL PROVIDE PULL CORDS IN ALL EMPTY CONDUITS. WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX, THE CONTRACTOR SHALL IDENTIFY EACH JUNCTION BOX AND CONDUIT IN A MANNER ALLOWING IDENTIFICATION OF JUNCTION BOXES AND CONDUITS AFTER ALL WALL FINISHES HAVE BEEN APPLIED.
4. MINIMUM SIZE OF CONDUITS SHALL BE 3/4", MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG COPPER, UON.
5. ALL CONDUCTORS SHALL BE COPPER TYPE THWN/THHN INSULATION.
6. THE CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL REQUIRED TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
7. NO JUNCTION BOX SHALL BE INSTALLED ABOVE DRYWALL CEILING.
8. ALL CONNECTIONS TO FANS, MOTORS, TRANSFORMERS, ETC. SHOULD BE MADE WITH LIQUID TIGHT FLEXIBLE CONDUIT.
9. THE CONTRACTOR SHALL INTERCONNECT ALL FANS, AC UNITS, FOR UNIT SHUT–DOWN UPON A SIGNAL FROM THE LIFE SAFETY SYSTEM. VERIFY WITH LIFE SAFETY SYSTEM CONTRACTOR.
10. THE CONTRACTOR SHALL VERIFY THE ACTUAL MOTOR AND APPLIANCE RATING AND LOADS IN ORDER TO PROVIDE CORRECT –SIZED MOTOR–RELATED ELECTRICAL COMPONENTS. THE CONTRACTOR SHALL SUBMIT TO ARCHITECT AND ENGINEER WITH REVISED DATA, BEFORE INSTALLATION. ALL CHANGES SHALL BE SHOWN ON RECORD DRAWINGS.
11. MAINTAIN CIRCUIT CONTINUITY TO THE AREAS NOT AFFECTED BY THE ALTERATION.
12. CONTRACTOR SHALL PROVIDE AND INSTALL, COMPLETE OF ALL REQUIRED HARDWARE AND COMPONENTS, OCCUPANCY SENSORS. EACH SENSOR SHALL BE PROVIDED WITH A CONVENIENT SHUNT PROVISION WHICH WILL ENABLE A CUSTODIAN OR BUILDING ENGINEER TO BY–PASS THE SENSOR IN CASE OF FAILURE. THE MANUFACTURER'S REPRESENTATIVE SHALL REVIEW SENSOR LAYOUT LOCATION AND PROVIDE GUARANTEE OF OPERATION AT THESE LOCATIONS AND INSPECT INSTALLATIONS FOR CORRECT OPERATION.
13. VERIFY EXACT LOCATION OF ALL ATU'S WITH MECHANICAL PLANS.
14. WHERE MOTORS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT WITH MIN. 3'–0" CLEARANCE.
15. ALL REMOVED AND NOT REUSED ELECTRICAL EQUIPMENT IS TO BE TURNED OVER TO THE BUILDING.
16. CONDUITS RUN IN THE CEILING SHALL RUN AS CLOSE AS POSSIBLE TO THE SLAB AND SHALL BE RUN PARALLEL TO THE PERIMETER WALLS.
17. GROUND ALL LADDER RACKS WITH #6 GROUND WIRE.
18. PROVIDE NEOPRENE MOUNTS ON ALL NEW TRANSFORMERS.
19. DO NOT PLACE ELECTRICAL OUTLETS BACK TO BACK IN ACOUSTICALLY RATED PARTITIONS.
20. UNLESS OTHERWISE SPECIFIED, ALL NEW ELECTRICAL EQUIPMENT SHALL BE SAME MANUFACTURER AS EXISTING.
21. PROVIDE CIRCUIT BREAKERS IN EXISTING PANELS WHERE REQUIRED. FIELD VERIFY CIRCUIT AVAILABILITY.
22. ALL CONDUITS IN EXPOSED AREAS AND/OR PARKING STRUCTURE SHALL BE EMT AND RUN AT 90 DEGREE ANGLES AND PARALLEL TO BUILDING STRUCTURE.
23. ALL CONDUITS IN EXPOSED AREAS SHALL BE PAINTED. VERIFY WITH ARCHITECT ON EXACT REQUIREMENTS.

ABBREVIATIONS

– A –	
A	AMPERE
AFF	ABOVE FINISHED FLOOR
ARF	ABOVE RAISED FLOOR
– B –	
BG	BREAK GLASS SWITCH
BLDG	BUILDING
BKBD	BACKBOARD
– C –	
C	CONDUIT
CABS	CABINETS
CAT	CATALOG
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATION
– D –	
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
– E –	
EA	EACH
ELEC	ELECTRICAL
EMER	EMERGENCY
EQUIP	EQUIPMENT
E, EXIST, EX, (E)	EXISTING TO REMAIN
– F –	
FBO	FURNISHED BY OTHER DIVISION OF WORK
FCU	FAN COIL UNIT
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FT	FEET OR FOOT
– G –	
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
– H –	
HC	HUNG CEILING
HP	HORSEPOWER
– I –	
INCAND	INCANDESCENT
INST	INSTRUMENT
IG	ISOLATED GROUND
– J –	
JB	JUNCTION BOX
– K –	
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
KWHM	KILOWATT HOUR METER
– L –	
LTG	LIGHTING
– M –	
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
– N –	
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
(N)	NEW ELECTRICAL
– P –	
PB	PULLBOX
P	POLE
ø	PHASE
PNL	PANEL
PWR	POWER
– R –	
R	RELOCATED
RECEPT	RECEPTACLE
REQ	REQUIRED
RM	ROOM
– S –	
SCHED	SCHEDULE
SECT	SECTION
SP	SINGLE POLE
SN	SOLID NEUTRAL
SPEC	SPECIFICATION
SW	SWITCH
SWBD	SWITCHBOARD
SYS	SYSTEMS
– T –	
TEL	TELEPHONE
XFMR, TRANSF	TRANSFORMER
TYP	TYPICAL
– U –	
UON	UNLESS OTHERWISE NOTED
– V –	
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
– W –	
WP	WEATHERPROOF

BOX SCHEDULES

TABLE 370–16(a). METAL BOXES

BOX DIMENSION, INCHES TRADE SIZE OR TYPE		MINIMUM CUBIC INCH CAPACITY	MAXIMUM NUMBER OF CONDUCTORS No. 18	No. 16	No. 14	No. 12	No. 10	No. 8	No. 6
4 X 1 1/4	ROUND OR OCTAGONAL	12.5	8	7	6	5	5	4	2
4 X 1 1/2	ROUND OR OCTAGONAL	15.5	10	8	7	6	6	5	3
4 X 2 1/8	ROUND OR OCTAGONAL	21.5	14	12	10	9	8	7	4
4 X 1 1/4	SQUARE	18.0	12	10	9	8	7	6	3
4 X 1 1/2	SQUARE	21.0	14	12	10	9	8	7	4
4 X 2 1/8	SQUARE	30.3	20	17	15	13	12	10	6
4 11/16 X 1 1/4	SQUARE	25.5	17	14	12	11	10	8	5
4 11/16 X 1 1/2	SQUARE	29.5	19	16	14	13	11	9	5
4 11/16 X 2 1/8	SQUARE	42.0	28	24	21	18	16	14	8
3 X 2 X 1 1/2	DEVICE	7.5	5	4	3	3	3	2	1
3 X 2 X 2	DEVICE	10.0	6	5	5	4	4	3	2
3 X 2 X 2 1/4	DEVICE	10.5	7	6	5	4	4	3	2
3 X 2 X 2 1/2	DEVICE	12.5	8	7	6	5	5	4	2
3 X 2 X 2 3/4	DEVICE	14.0	9	8	7	6	5	4	2
3 X 2 X 3 1/2	DEVICE	18.0	12	10	9	8	7	6	3
4 X 2 1/8 X 1 1/2	DEVICE	10.3	6	5	5	4	4	3	2
4 X 2 1/8 X 1 7/8	DEVICE	13.0	8	7	6	5	5	4	2
4 X 2 1/8 X 1 1/8	DEVICE	14.5	9	8	7	6	5	4	2
3 3/4 X 2 X 2 1/2 MASONRY BOX/GANG		14.0	9	8	7	6	5	4	2
3 3/4 X 2 X 3 1/2 MASONRY BOX/GANG		21.0	14	12	10	9	8	7	4
FS–MINIMUM INTERNAL DEPTH 1 3/4 SINGLE COVER/GANG		13.5	9	7	6	6	5	4	2
FD–MINIMUM INTERNAL DEPTH 2 3/8 SINGLE COVER/GANG		18.0	12	10	9	8	7	6	3
FS–MINIMUM INTERNAL DEPTH 1 3/4 MULTIPLE COVER/GANG		18.0	12	10	9	8	7	6	3
FD–MINIMUM INTERNAL DEPTH 2 3/8 MULTIPLE COVER/GANG		24.0	16	13	12	10	9	8	4

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE CITY OF SANTA MONICA, TITLE 24 AND ALL OTHER GOVERNING CODES AND ORDINANCES.
2. ALL SYMBOLS SHOWN ON THE SYMBOL LIST ARE NOT NECESSARILY USED IN THIS PROJECT.
3. WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND THE PROJECT MANUAL OR BUILDING STANDARD SPECIFICATIONS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
4. THE WORK OF THIS PROJECT INVOLVES ALTERATION OF THE EXISTING BUILDING TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE ARCHITECTURAL DRAWINGS SHOW THE CHANGES TO BE MADE. THE CONTRACTOR SHALL REVISE, REARRANGE, REROUTE OR REMOVE EXISTING WIRING AS REQUIRED TO ACCOMMODATE THE CHANGES AND ADDITION SHOWN AND TO PROVIDE CONTINUING ELECTRICAL SERVICE TO THOSE EXISTING PORTIONS OF THE PROJECT WHICH ARE TO REMAIN IN OPERATION. IN AREA WHERE NO ALTERATIONS ARE INDICATED, EXISTING FACILITIES SHALL BE RETAINED IN SERVICE. ONLY SELECTED PORTIONS OF THE EXISTING HAVE BEEN IDENTIFIED ON DRAWINGS.
5. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LIGHTING FIXTURES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT PIPING INTERFERENCE, OR FOR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING, AND THE RECORD DRAWINGS SHALL BE ACCURATELY REVISED TO SHOW THE CHANGES AS COMPLETED.
6. DURING BID, THE CONTRACTOR MUST EXAMINE THE COMPLETE SET OF DRAWINGS FOR ALL TRADES, AS ISSUED BY THE ARCHITECT AND REVIEW DIMENSIONS SPACE REQUIREMENTS AND POINT OF CONNECTIONS TO ALL EQUIPMENT. MAKE ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER TRADES.
7. UNLESS INSTRUCTED OTHERWISE, THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND FEES REQUIRED FOR INSTALLATION OF THE MECHANICAL WORK. FURNISH FINAL CERTIFICATE OF INSPECTION OR WRITTEN EVIDENCE OF ACCEPTANCE BY INSPECTION AUTHORITIES FOR ALL WORK INSTALLED.
8. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION AND NEW CONSTRUCTION, AND EXACT LOCATION OF FIXTURES, EQUIPMENT, DEVICES , ETC.
9. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ENSURE AN UNDERSTANDING OF THE COMPLETE SCOPE OF PROJECT PRIOR TO START OF WORK.
10. FOR ANY INSTALLATION, AC TYPE CABLE SHALL NOT BE ALLOWED FOR MAIN FEEDERS, HOME RUNS AND IN EXPOSED CONDITIONS, MC TYPE CABLE IS ACCEPTED. AC90 TYPE CABLE SHALL BE ALLOWED IN CONCEALED AREAS ONLY AND ONLY FROM DEVICE UP TO JUNCTION BOX IN ACCESSIBLE CEILING SPACE.
11. CONTRACTOR SHALL COORDINATE BOTH HORIZONTAL AND VERTICAL ROUTING OF ALL RACEWAY AND CONDUITS SO AS TO AVOID CONFLICTS WITH OTHER SYSTEMS, FRAMES AND ARCHITECTURAL/STRUCTURAL BARRIERS. PROVIDE CONDUIT SLEEVES WHERE REQUIRED AS RECOMMENDED BY TELECOMMUNICATIONS CONTRACTOR.

SHEET INDEX

SHEET NO	DESCRIPTION	SCALE
E0.1	GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX	NONE
E0.2	TITLE 24 COMPLIANCE	NONE
E0.2A	OUTDOOR TITLE 24 COMPLIANCE	NONE
E0.3	LIGHTING FIXTURE SCHEDULE	NONE
E0.4	SINGLE LINE DIAGRAM	NONE
E0.5	PANEL SCHEDULES	NONE
E0.6	PANEL SCHEDULES	NONE
E1.1	SITE PLAN	1/8"=1'–0"
E2.0	FIRST FLOOR PLAN – POWER AND SIGNAL	1/4"=1'–0"
E2.1	FIRST FLOOR PLAN – LIGHTING	1/4"=1'–0"
E2.1A	STUDIO/NEWSROOM LIGHTING PLAN	1/4"=1'–0"
E3.0	SECOND FLOOR PLAN – POWER AND SIGNAL	1/4"=1'–0"
E3.1	SECOND FLOOR PLAN – LIGHTING	1/4"=1'–0"
E4.0	ROOF PLAN – ELECTRICAL	1/4"=1'–0"

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NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC–COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC–RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC–RESUBMIT		08.31.09				

KEYPLAN

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PROJECT
SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404

DRAWING
GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX

STAMP

DATE
PROJECT NO. 12-805
DRAWN -
REVIEWED -
SCALE NONE
DRAWING NO. E0.1

CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C

PROJECT NAME	DATE
SANTA MONICA CITY TV	09/02/2009
PROJECT ADDRESS: 1654 19TH ST. SANTA MONICA CA. 90404	Building Permit #
PRINCIPAL DESIGNER-LIGHTING: ARC ENGINEERING — TELEPHONE: 818.508.6300	
DOCUMENTATION AUTHOR: ARC ENGINEERING — TELEPHONE: 818.508.6300	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS — OUTDOOR LIGHTING ZONE (✓One) ☐ LZ1 ☐ LZ2 ☑ LZ3 ☐ LZ4

FUNCTION TYPE — ☑ OUTDOOR LIGHTING ZONE ☐ OUTDOOR SIGNS ☐ INDOOR SIGNS

PHASE OF CONSTRUCTION — ☑ NEW CONSTRUCTION ☐ ADDITIONS ☐ ALTERATIONS

STATEMENT OF COMPLIANCE

This certificate of Compliance lists outdoor lighting system specifications need to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This applies only to building lighting requirements.

This documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE

The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with the permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 119, 130 through 132. 146 and 149 of Title 24, Part 6. Please one:

☑ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL LIGHTING DESIGNER-NAME	SIGNATURE	DATE	LIC.#

INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (Each worksheet is included)

Manual published by the California Energy Commission

☑ OLTG-1-C	Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.
	Either LTG-1 or OLTG-1 may be used for signs as follows: 1. Use LTG-1C if the project consists soley of indoor signs 2. Use LTG-1C if the project consists of indoor lighting, and outdoor or indoor signs, but no other outdoor lighting. 3. Use OLTG-1-C if the project consists solely of outdoor signs 4. Use OLTG-1-C if the project consists of outdoor lighting, and indoor or outdoor signs, but no other indoor lighting.
☑ OLTG-2-C	LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs)
☑ OLTG-3-C	AREA CALCULATIONS WORKSHEETS. Applicable Parts required for all outdoor area calculations.
☐ OLTG-4-C	SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor

CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C

PROJECT NAME: SANTA MONICA CITY TV

Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power

✓

☑ Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4
☐ Not Applicable

☐ Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4
☑ Not Applicable

☑ Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4
☐ Not Applicable

☐ Lighting power allowances for vehicle service station canopies on OLTG-2-C Part 4 of 4
☑ Not Applicable

☐ Sign lighting compliance on OLTG-4-C
☑ Not Applicable

Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment
Indicate location on plans of Note Block for Mandatory Measure

☑ Installed lighting power has been determined in accordance with §130(c)1
☐ Not Applicable

☑ All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or controlled by motion sensor(s) per §132(a)
☐ Not Applicable

☑ All Luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of §132(b)
☐ Not Applicable

☑ All permanently installed outdoor lighting meets the Control Requirements of § 132(c)1
☐ Not Applicable

☑ Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements of § 132(c)2
☐ Not Applicable

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE Auto Time Switch/Photosensor, etc.	AREA CONTROLLED	NOTE TO FIELD
BACK PARKING	PC	TIME CLOCK WITH PHOTOCELL	BACK PARKING	

LIGHTING COMPLIANCE SUMMARY (Part 1 of 4) OLTG-2-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: 09/02/2009

LIGHTING POWER ALLOWANCES - GENERAL SITE ILLUMINATION - (Table 147-A)

A	Allotted Watts B	C	D	Luminaire E	F	G	Lamps/Ballasts H	I	J	K	Installed Watts L	M	N	O
Lighting Applications Category (Table 147-A)	Area (ft^2) or Length (LF)	Allotted LPD W/ft^2 or W/LF	Allotted Watts (B X C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballasts per Luminaire	Watts per Luminaire	If CEC Default	Number of Luminaires	Installed Watts (L X N)
PARKING LOT	250 SF	0.15	37.5	N	WALL MTD.	✓	CF	1	32	1	32	✓	1	32
Total Allotted Watts			37.5								Total Installed Watts			32

ILLUMINATED AREA CALCULATION WORKSHEET (Part 1 of 5) OLTG-3-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: 09/02/2009

Hardscape - Method (i)

A. Hardscape for automotive vehicular use, including parking lots, driveways and site roads

A	B	C	D	E	F	G	H
		Areas (ft^2) to Subtract from within Illuminated Area					
List Specific Application (Table 147-A)	Actual Paved Area plus 5' perimeter of adjacent unpaved land. Includes planters and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides	Areas between poles or luminaires that are greater than 6 mounting height distance (If Applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtrack (C + D + E + F)	Illuminated Area (B - G)
PARKING LOT	?	–	–	–	–	–	?

B. Hardscape for pedestrian use, including plazas, sidewalks, walkways and bikeways

A	B	C	D	E	F	G	H
		Areas (ft^2) to Subtract from within Illuminated Area					
List Specific Application (Table 147-A)	Actual Paved Area plus 5' of unpaved land on either side of path of travel. Shall include all contiguous paved area before including adjacent grounds	Areas between poles or luminaires that area greater than 6 mounting height distance (If Applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtrack (C + D + E + F)	Illuminated Area (B - G)

Checklist

☐ § 147(c)1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistant with the actual use of the areas.

☐ § 147(c)1 A - General illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, with the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or obstructed by a sign or other structures.

LIGHTING COMPLIANCE SUMMARY (Part 3 of 4) OLTG-2-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: 09/02/2009

Lighting Power Allowances for Specific Applications (TABLE 147-B) - Other Than Vehicle Service Station without Canopies

A	Allotted Watts B	C	D	Luminaire Description E	F	G	Lamps/Ballasts H	I	J	K	Design Watts L	M	N	O	P
Lighting Applications (Table 147-B)	Area (ft^2) or Length (LF)	Alloted LPD W/ft^2 or W/LF	Allotted Watts (B X C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballasts per Luminaire	Watts per Luminaire	If CEC Default	Number of Luminaires	Design Watts (L X N)	Allowed Watts Minimum of
NON-SALES CANOPY	200 SF	0.50	100	F	CANOPY STRIP LIGHT	NA	T5	1	28	1	28	✓	2	56	100

ILLUMINATED AREA CALCULATION WORKSHEET (Part 4 of 5) OLTG-3-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: 09/02/2009

Ornamental Lighting, Canopies, Vehicle Service Station Hardscape, and Outdoor Dining

A	B	C	D	E	F	G
		Areas (ft^2) to Subtract from within Illuminated Area				
Lighting Application (Table 147-B)	Gross Illuminated Area of Application (ft^2)	Areas between poles or luminaires that are greater than 6 mounting height distance (If Applicable)	Overlapping Areas of Another Application or Luminaire	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtract (C + D + E)	Illuminated Area (B - F)
NON-SALES CANOPY	–	–	–	–	–	?
Checklist						

☐ § 147(c) 1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistant with the actual use of the areas.

☐ § 147(c) 2 C - The area of ornamental lighting includes no more than the total area of the site external to buildings. Luminaire used for ornamental lighting employ lamps rated 100 watts or less, and are not used to determine LPD for general illumination.

☐ § 147(c) 2 D - Measured in plan view, the areas of illuminated canopies include the horizontal projection of the canopies.

☐ § 147(c) 2 F - The area of vehicle service station hardscape includes only illuminated hardscape areas beyond the horizontal projection of the canopy in plan view.

☐ § 147(c) 2 I - The area of outdoor dining area includes only illuminated hardscape areas used to serve and consume food beverages.

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NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC–COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC–RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC–RESUBMIT		08.31.09				

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SANTA MONICA CITY TV
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PROJECT

DRAWING: OUTDOOR TITLE 24 COMPLIANCE

DATE	PROJECT NO. 12-805
DRAWN -	
REVIEWED -	E0.2A
SCALE NONE	DRAWING NO.

STAMP

TITLE 24–CERTIFICATE OF COMPLIANCE

INTERIOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: --

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

A	B	C	D	E	F	G	H	I	J
Luminaire		Lamps/Ballasts				Installed Watts			
Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts Per Lamp	Number of Ballasts per Luminaire	Watts per Luminaire	✓ Electronic	Number of Luminaires	Installed Watts (G x I)
F1	LINEAR STRIP LIGHT	HOT5	1	39	1	39	✓	1	39
F2	RECESSED CFL DOWNLIGHT	TTT	1	26	1	26	✓	6	156
F3	RECESSED CFL DOWNLIGHT	TTT	1	26	1	26	✓	44	1144
F3a	EXISTING RECESSED CFL DOWNLIGHT	TTT	1	26	1	26	✓	12	312
F4	RECESSED IC PAR 20 DOWNLIGHT	PAR 20	1	50	1	50	✓	16	800
F5	SURFACE MOUNT PARABOLIC	T8	4	68	1	75	✓	12	900
F6	LINEAR 4' STRIP LIGHT	T8	1	32	1	32	✓	3	96
F7	LINEAR 8' STRIP LIGHT	T8	2	32	1	64	✓	1	64
F7a	EXISTING LINEAR 8' STRIP LIGHT	T8	2	32	1	64	✓	11	704

BUILDING TOTAL (sum of all pages)	+ 4,215
PORTABLE LIGHTING (From LTG-3-C)	+ –
CONTROL CREDIT (From LTG-4-C)	- –
ADJUSTED ACTUAL WATTS	= 4,215

2005 Nonresidential Compliance Forms — March 2005

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: --

INSTALLED INTERIOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

		INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)		4,163
PORTABLE LIGHTING (From LTG-3-C)	+	–
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	-	–
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=	4,163
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)		
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	-	
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=	

ALLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES

✓
☐ COMPLETE BUILDING METHOD (From LTG-5-C)
☒ AREA CATEGORY METHOD (From LTG-5-C)
☐ **TAILORED METHOD (From LTG-6-C)**

	ALLOWED WATTS
ALLOWED LIGHTING POWER	6,583

ALTERNATE COMPLIANCE

✓
☐ PERFORMANCE METHOD
☐ COMMON LIGHTING SYSTEM (from LTG-8-C)
ALLOWED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C) --- Watts

MANDATORY LIGHTING MEASURES FOR INTERIOR LIGHTING AND DAYLIT AREAS

MANDATORY INTERIOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	SPACE CONTROLLED Lists the location of controlled lights	✓ If Control is for Daylighting	NOTE TO FIELD
ELEC STORAGE 127	RCP	AUTO TIME SWITCH	ALL SPACES		

2005 Nonresidential Compliance Forms — March 2005

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: --
PROJECT ADDRESS: 1542 15TH STREET, SANTA MONICA, CA 90404
PRINCIPAL DESIGNER – LIGHTING: ARC ENGINEERING — TELEPHONE: 818.508.6300
DOCUMENTATION AUTHOR: BG — TELEPHONE: 818.506.6300
Building Permit #
Checked by/State Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS: -- | BUILDING CONDITIONED FLOOR AREA: 6,790 SQ FEET | CLIMATE ZONE:

BUILDING TYPE: ☒ NONRESIDENTIAL ☐ HIGH RISE RESIDENTIAL ☐ HOTEL/MOTEL GUEST
☒ CONDITIONED SPACES ☐ UNCONDITIONED SPACES ☐ INDOOR/OUTDOOR SIGNS
PHASE OF CONSTRUCTION: ☐ NEW ☐ ADDITION ☒ ALTERATION

METHOD OF COMPLIANCE

☐ PERFORMANCE ☐ COMPLETE BUILDING ☒ AREA CATEGORY ☐ TAILORED ☐ COMMON LIGHTING

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications need to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.
The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR — SIGNATURE — DATE: 03-16-07

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements contained in the applicable parts of Sections 110, 119, 130–132, 146, 148, & 149 of Title 24, Part 6.

☒ The plans & specifications meet the requirements of Part 6 (Sections 10-1–3a)
☒ The installation certificates meet the requirements of Part 6 (10-103a 3).
☒ The operation & maintenance information meet the requirements of Part 6 (10-103c).
Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)
☒ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.
☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
☐ I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL LIGHTING DESIGNER–NAME: BRYAN GAUGER — SIGNATURE — DATE — LIC.#

LIGHTING MANDATORY MEASURES

✓ ☒ Indicate location on plans of Note Block for Mandatory Measure: –

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

☒ LTG-1-C, Parts 1 of 4 and 2 of 4	Certificate of Compliance. Part 1 of 4 and 2 of 4 are required for all submittals
☐ LTG-1-C, Part 3 of 4	Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed
☒ LTG-1-C, Part 4 of 4	Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed
☒ LTG-2-C	Interior Lighting Schedule
☒ LTG-3-C	Portable Lighting Worksheet
☐ LTG-4-C	Lighting Controls Credit Worksheet
☐ LTG-5-C	Interior Lighting Power Allowance
☐ LTG-6-C	Tailored Method Worksheet
☐ LTG-7-C	Room Cavity Ratio Worksheet
☐ LTG-8-C	Common Lighting Systems Method Worksheet
☐ LTG-9-C	Line Voltage Track Lighting Worksheet
☐ OLTG-4-C	Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

2005 Nonresidential Compliance Forms — March 2005

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: --

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

Systems Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-A, Forms shall be submitted to the building department that:

A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 6.

Test Description	Test Performed By:
✓ ☒ LTG-2-A: Lighting Control Acceptance Document • Occupancy Sensor Acceptance • Manual Daylight Controls Acceptance • Automatic Time Switch Control Acceptance Equipment requiring acceptance testing: OCCUPANCY SENSORS	INSTALLING CONTRACTOR
✓ ☐ LTG-3-A: Automatic Daylighting Controls Acceptance Document Equipment requiring acceptance testing:	

2005 Nonresidential Compliance Forms — March 2005

INTERIOR LIGHTING POWER ALLOWANCE LTG-5-C

PROJECT NAME: SANTA MONICA CITY TV — DATE: --

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES

BUILDING CATEGORY (From S 146 Table 146-B)	WATTS PER (ft^2)	COMPLETE BLDG. AREA	ALLOWED WATTS

AREA BUILDING METHOD - CONDITIONED SPACES

A: AREA CATEGORY (From S146 TABLE 146-C)	B: WATTS PER (ft^2)	C: AREA (ft^2)	D: ALLOWED WATTS
ELECTRICAL ROOM/MACHINE ROOM	0.7	1204	843
PRECISION	1.3	3261	4240
SUPPORT/CORRIDOR/REST ROOMS	0.6	2117	1270
RECEPTION	1.1	106	117
PANTRY	1.1	102	113
TOTALS		6,790 AREA	6,583 WATTS

TAILORED METHOD - CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-6-C)

UNCONDITIONED SPACES

A: Complete Building and Area Category Methods CATEGORY (From S146-B & C)	B: WATTS PER (ft^2)	C: AREA (ft^2)	D: ALLOWED WATTS
N/A	N/A	N/A	N/A
TOTALS		AREA	WATTS

TAILORED METHOD - UNCONDITIONED SPACES

TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-6-C)

2005 Nonresidential Compliance Forms — March 2005

LIGHTING NOTES:

1. FIXTURES SHALL BE UL LISTED OR LABELED AND INSTALLED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION AND MOUNTING DETAIL. CONTRACTOR SHALL VERIFY AND COORDINATE WITH ARCHITECT AND LIGHTING DESIGNER FIXTURE MOUNTING DETAILS BASED ON FINAL SPECIFIED CEILING SYSTEM AND FIELD CONDITIONS. SEE ARCITECTURAL DRAWINGS FOR MOUNTING DIMENSIONS AND/OR DETAILS.
3. ALL FLUORESCENT FIXTURES SHALL BE PROVIDED WITH ELECTRONIC BALLAST.
4. VERIFY ALL SPECIFIED FINISHES WITH ARCHITECT PRIOR TO ORDERING.
5. FIXTURES ARE TO BE MOUNTED WITH LAMPS ORIENTED AS INDICATED ON DRAWINGS.
6. FLUORESCENT FIXTURES USED FOR EMERGENCY EGRESS, SHOWN ON LIGHTING PLANS WITH SHADED CIRCLE OR DENOTED WITH "EM" SHALL BE PROVIDED WITH EMERGENCY BALLAST.
7. ALL LOW VOLTAGE LIGHTING FIXTURE SHALL BE PROVIDED WITH TRANSFORMER OF CORRECT SIZE AND RATING TO ACCOMMODATE ACTUAL LOAD. PROVIDE SECONDARY OVERCURRENT PROTECTION AND IF REMOTE TRANSFORMER, LOCATE IN NEAREST ACCESSIBLE CEILING.

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www.arceng.net

NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC–COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC–RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

TITLE 24 COMPLIANCE
DRAWING

STAMP

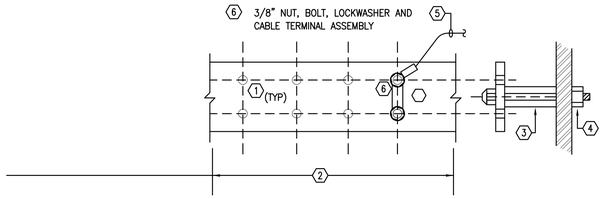
DATE: -
DRAWN: -
REVIEWED: NONE
SCALE

12-805
PROJECT NO.

E0.2
DRAWING NO.

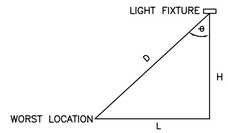
NOTES:

1. DRILLED HOLE 7/16" DIAMETER
2. BAR LENGTH AS REQUIRED, 1/4" THICK COPPER.
3. FASTENER, 3'-0" ON CENTERS, (MIMUM 2)
4. TO MAIN GROUND BUS BAR
5. GROUNDING CABLE
6. 3/8" NUT, BOLT, LOCKWASHER AND CABLE TERMINAL ASSEMBLY



GROUND BAR DETAIL

SCALE: NONE | 4



* CANDLE POWER BASED ON MANUFACTURER PHOTOMETRIC DATA

$$Fc = \frac{[\text{CANDLE POWER}^*]\ [\cos(\text{ANGLE})]}{[\text{DISTANCE}]^2}$$

TYPE "F16" FIXTURE, L=25', D=30'

$$Fc = \frac{(2900)(0.8)(\frac{18}{30})}{(30)^2}$$

$$Fc = 1.5$$

WORST CASE EMERGENCY FOOTCANDLE CALCULATION

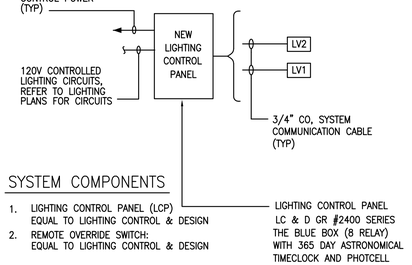
SCALE: NONE | 3

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS QTY	LAMPS TYPE	INPUT WATTS	VOLTAGE	REMARKS
F1	PENDANT LINEAR LIGHT FIXTURE. PROVIDE WITH ELECTRONIC DIMMING BALLAST.	DELRAY LIGHTING: SW43139.313	1	TO T5	39	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F2	5" APERTURE, RECESSED CFL DOWNLIGHT. PROVIDE WITH ELECTRONIC DIMMING BALLAST.	LIGHTOLIER: 1001FDICMX1	1	TRIPLE TUBE	26	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F3	5" APERTURE, RECESSED CFL DOWNLIGHT.	LIGHTOLIER: 1001F26ICU	1	TRIPLE TUBE	26	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F3a (E)	EXISTING 5" APERTURE, RECESSED CFL DOWNLIGHT.	EXISTING	1	TRIPLE TUBE	26	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F4	4" APERTURE RECESSED IC PAR 20 DOWNILIGHT.	EDISON PRICE LIGHTING: EPIC 6-420-20/4	1	PAR 20	50	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F5	SURFACED MOUNT PARABOLIC, 2X2, 3" LOUVER. PROVIDE WITH ELECTRONIC STANDARD BALLAST.	WILLIAMS FLUORESCENT LIGHTING: SU3-22-417-3ISS-OPTIONS-EB4-120	4	T8	68	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F6	FLUORESCENT 4', T8 OPEN STRIP LIGHT WITH ELECTRONIC BALLAST.	LITHONIA EJS/1T8/32	1	T8	32W	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F7	FLUORESCENT 4', T8 OPEN STRIP LIGHT WITH ELECTRONIC BALLAST.	LITHONIA EJS/2T8/32	2	T8	64W	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F7a (E)	FLUORESCENT 4', T8 OPEN STRIP LIGHT WITH ELECTRONIC BALLAST.	LITHONIA EJS/2T8/32	2	T8	64W	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
F	4' LIGHTING STRIP FOR WET LOCATIONS.	ENCAPSULITE WGP514	1	T5	28W	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
N	WALL MOUNTED SENSOR LIGHT.	PHILLIP DAY BRITE VSH-32-C-DT-BK-PE	1	CFL	32W	120	VERIFY EXACT FIXTURE TYPE, ACCESSORIES, AND MANUFACTURER, WITH ARCHITECT, PRIOR TO INSTALLATION.
EE EX	NEW EXIT SIGNS.	LITHONIA PRECISE ILRP EDGE LIT LED GREEN LETTERS			1.5	120	(NEW EXIT SIGNS)

LIGHTING GENERAL NOTES

1. THE LIGHTING PLAN IS NOT INTENDED TO REPRESENT A COMPLETE SET OF ELECTRICAL DRAWINGS EXCEPT WHERE INDICATED OTHERWISE. THE LOCATION AND SELECTION OF ANY ELECTRICAL REQUIREMENTS NOT DIRECTLY RELATED TO LIGHTING SHALL BE BY OTHERS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION AND MOUNTING DETAIL. CONTRACTOR SHALL VERIFY AND COORDINATEWITH ARCHITECT FIXTURE MOUNTING DETAILS ON FINAL SPECIFIED CEILING SYSTEM AND FIELD CONDITIONS. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING DIMENSIONS AND/OR DETAILS.
3. REMOTE TRANSFORMER FOR LOW VOLTAGE LIGHTING FIXTURES SHALL BE LOCATED IN NEAREST ACCESSIBLE SPACE. DISTANCE FROM TRANSFORMER TO FIXTURE SHALL BE MINIMIZED TO COMPLY WITH MAXIMUM ALLOWED PER MANUFACTURER'S RECOMMENDATION PROVIDE SECONDARY FUSING AS REQUIRED. COORDINATE EXACT LOCATION OF REMOTE TRANSFORMER WITH ARCHITECT PRIOR TO INSTALLATION.
4. WHERE FIXTURES REQUIRE REMOTE TRANSFORMERS OR BALLASTS, THE CONTRACTOR SHALL DETERMINE LOCATIONS AS REQUIRED FOR EVEN LOAD DISTRIBUTION, SERVICE ACCESS AND VENTILATION.
5. UNLESS OTHERWISE NOTED, PROVIDE LUTRON HI-LUME DIMMING BALLAST TO ALL FLUORESCENT FIXTURES SHOWN ON LIGHTING PLAN AS BEING CONTROLLED BY DIMMER ON LIGHTING PLAN. PROVIDE REMOTE BALLAST WHERE REQUIRED. COORDINATE REMOTE LOCATION WITH ARCHITECT.
6. WHERE APPLICABLE, DIMMED FLUORESCENT LAMPS REQUIRE A BURN-IN PERIOD OF 100 HOURS AT FULL BRIGHTNESS PRIOR TO INITIAL DIMMING.
7. LIGHT FIXTURES USED FOR EMERGENCY EGRESS, SHOWN ON LIGHTING PLANS DENOTED WITH "EM" SHALL BE PROVIDED WITH DUAL CIRCUIT HARDWARE AS REQUIRED. PROVIDE EMERGENCY BALLAST AS REQUIRED.
8. ALL NEW FLUORESCENT FIXTURES TO BE FURNISHED WITH ELECTRONIC, HIGH POWER FACTOR BALLAST WHERE APPLICABLE.
9. VERIFY ALL LIGHTING FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.
10. THE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR PAINTING EXPOSED PORTIONS OF FLANGES/TRIMS ON ALL RECESSED FIXTURES TO MATCH THE ADJACENT SURFACE. LAMPS, REFLECTORS AND LENSES MUST BE REMOVED BEFORE PAINTING.
11. THE CONTRACTOR SHALL VERIFY VOLTAGES FOR ALL FIXTURES PRIOR TO ORDERING.
12. ALL PENDANT FIXTURES SHALL BE PROVIDED WITH SUFFICIENT STEM OR SUSPENSION CABLE LENGTH PRIOR TO INSTALLATION. VERIFY LENGTHS WITH ARCHITECT.
13. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE, ELECTRICAL CABLE, TIMERS, TRANSFORMERS, ETC., AS REQUIRED FOR COMPLETION OF INSTALLATION. WHERE LOW VOLTAGE FIXTURES ARE NOT EQUIPPED WITH STEP DOWN TRANSFORMER, PROVIDE TRANSFORMER OF REQUIRED SIZE AND RATING TO ACCOMMODATE CONNECTED LIGHTING LOAD.
14. ANY FIXTURE SUBSTITUTION MUST BE APPROVED BY THE ARCHITECT AND/OR LIGHTING DESIGNER PRIOR TO BID. CONTRACTOR MUST BE PREPARED TO SUPPLY A SAMPLE AND/OR PHOTOMETRIC DATA IF REQUIRED. IF SUBSTITUTION IS REJECTED, CONTRACTOR MUST BE PREPARED TO PROVIDE SPECIFIED PRODUCT WITHOUT DELAY.
15. THE CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL CLEARANCES, CORRECT CEILING TRIM AND AIR HANDLING REQUIREMENTS (IF ANY) FOR ALL FIXTURES PRIOR TO ORDERING.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPPING ALL FIXTURES WITH THE EXACT LAMPS SPECIFIED IN THE FIXTURE SCHEDULE.
17. FIXTURES SHALL BE UL LISTED OR LABELED AND INSTALLED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.
18. THE CONTRACTOR SHALL INSTALL ALL FIXTURES ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
19. THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES.
20. WHERE APPLICABLE, THE CONTRACTOR SHALL AIM AND ADJUST LIGHTING FIXTURES AS DIRECTED BY THE ARCHITECT UPON COMPLETION OF THE INSTALLATION. LIGHTING FIXTURES AS DIRECTED BY THE ARCHITECT UPON COMPLETION OF THE INSTALLATION.
21. PROVIDE A JUNCTION BOX AT EACH EXIT SIGN LOCATION WHERE FEED-THRU WIRING CONNECTION IS SHOWN PER LIGHTING PLAN.
22. CONTRACTOR TO VERIFY MOUNTING REQUIREMENTS WITH ARCHITECT.



SYSTEM COMPONENTS

1. LIGHTING CONTROL PANEL (LCP) EQUAL TO LIGHTING CONTROL & DESIGN
2. REMOTE OVERRIDE SWITCH: EQUAL TO LIGHTING CONTROL & DESIGN

GENERAL NOTES

1. EXCEPT EMERGENCY AND EXIT LIGHTS CIRCUIT, ALL INTERIOR LIGHTING CIRCUITS SHALL BE ROUTED THROUGH RELAY PANELS.
2. REFER TO PANEL SCHEDULES AND LIGHTING RELAY SCHEDULE FOR CIRCUITS CONTROLLED.
3. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION AND REQUIREMENTS.

"LCP" LIGHTING RELAY CONTROL SCHEDULE

ZONE OVERRIDE SWITCH	AREAS CONTROLLED	CONTROLLED CIRCUITS
LV1	STUDIO	1LTG-3
LV2	CORRIDOR/RECEPTION OUTDOOR LTG.	1LTG-1

GENERAL NOTES:

1. FOR QUESTION REGARDING LC & D LIGHTING CONTROL SYSTEM, CALL MR MICHAEL REYES AT TELEPHONE NUMBER (323) 497-0001 OR TECHNICAL SUPPORT AT TELEPHONE NUMBER (800) 345-4480. ALL LIGHTING CONTROL RELAY CONTACTOR SHALL BE RATED 30 AMPS MINIMUM.
2. APPROVED EQUAL: WATTSTOPPER, INC-TELEPHONE NUMBER (800) 879-8585 OR INTELLEGENT LIGHTING CONTROLS, INC-TELEPHONE NUMBER (800) 922-8004.

LIGHTING CONTROL PANEL

SCALE: NONE | 2

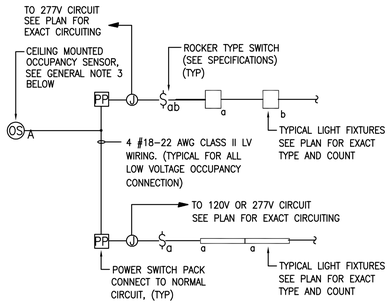
SPECIFICATION AND NOTES:

WATT STOPPER

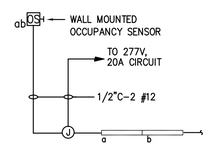
1. OCCUPANCY SENSOR SCHEDULE:

		COVERAGE:
OSa	PW-100 AUTOMATIC WALL SWITCH	500-1000 SQ FT 180 DEGREES
OSab	PW-200 DUAL RELAY AUTOMATIC WALL SWITCH FOR CONTROL OF TWO SEPERATE LIGHTING LOADS OR CIRCUITS.	500-1000 SQ FT 180 DEGREES
OS	WPIR PASSIVE INFRARED CEILING OCCUPANCY SENSOR	300 SQ FT
OS A	UT-300-2 (40 mA CURRENT REQUIRED) ULTRASONIC CEILING OCCUPANCY SENSOR	1000 SQ FT 360°
OS B	UT-300-3 (45 mA CURRENT REQUIRED) ULTRASONIC CEILING OCCUPANCY SENSOR	2000 SQ FT 360°
OS C	UT-300-3 (45 mA CURRENT REQUIRED) ULTRASONIC CEILING OCCUPANCY SENSOR	90 LINEAR FT 360°
OS D	DT-200 (43 mA CURRENT REQUIRED) DUAL TECHNOLOGY WALL/CEILING OCCUPANCY SENSOR	2000 SQ FT 180°

2. POWER PACK: POWER PACK SHALL BE AS FOLLOWS WITH MAXIMUM OF 3 TO 5 SENSORS ON EACH SWITCHPACK BASED ON POWER PACK OUTPUT AND CEILING SENSOR CURRENT REQUIREMENT :
   BZ-100 FOR 120/277V INPUT VOLATGE (150 mA OUTPUT)
   BZ-150 FOR 120/277V INPUT VOLTAGE WITH AUTO OR MANUAL ON OPERATING MODE (225mA OUTPUT)
3. WIRING ON THIS PLAN IS DIAGRAMMATIC WITHOUT SHOWING THE REQUIRED POWER PACKS AND CONNECTIONS. PROVIDE POWER PACK AS NEEDED AND INSTALLED IN ACCESSIBLE SPACE TO ACCOMPLISH SWITCHING SCHEME OF OCCUPANCY SENSOR AS INDICATED. SEE THIS WIRING DIAGRAM FOR GENERAL REQUIREMENTS
4. CONTRACTOR SHALL PROVIDE OCCUPANCY SENSOR THROUGHOUT. CONTRACTOR SHALL REVISE OCCUPANCY SENSOR WIRING LAYOUT, ETC. AS REQUIRED.
5. CONTRACTOR SHALL LOCATE OCCUPANCY SENSOR PER MANUFACTURER'S RECOMMENDATION FOR COMPLETE MAXIMUM COVERAGE OF LIGHTING FIXTURES CONTROLLED. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR ADDITIONAL OCCUPANCY SENSORS REQUIRED FOR COMPLETE COVERAGE OF AREA LIGHTS BEING CONTROLLED.



CEILING MOUNTED SYSTEM



WALL MOUNTED SYSTEM

GENERAL NOTES:

1. WIRING ON THIS PLAN IS DIAGRAMMATIC WITHOUT SHOWING THE REQUIRED POWER PACKS AND CONNECTIONS. PROVIDE POWER PACKS AS NEEDED AND INSTALLED IN ACCESSIBLE SPACE TO ACCOMPLISH SWITCHING SCHEME OF OCCUPANCY SENSOR AS INDICATED. SEE THIS WIRING DIAGRAM FOR GENERAL REQUIREMENTS.
2. ULTRASONIC OCCUPANCY SENSOR SHALL BE PLACED AT MINIMUM OF 6' AWAY FROM ANY HVAC SUPPLY
3. CONTRACTOR SHALL PROVIDE TYPE "A" OR TYPE "B" OCCUPANCY SENSOR, DEPENDING ON SIZE OF ROOM. ROOM COVERAGE REQUIREMENT SHALL BE PER SENSOR MANUFACTURER'S RECOMMENDATION.
4. OCCUPANCY SENSORS SHALL HAVE UP TO 30 MINUTES TIME DELAY.

TYPICAL OCCUPANCY SENSOR DETAIL

SCALE: NONE | 1

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15260 Ventura Blvd. Suite 1520,
Sherman Oaks, CA 91403
tel: 818.508.6300 fax: 818.508.7050
www.arceng.net

NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC-COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC-RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC-RESUBMIT		08.31.09				

KEYPLAN

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info@bauton.com
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PROJECT
SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404

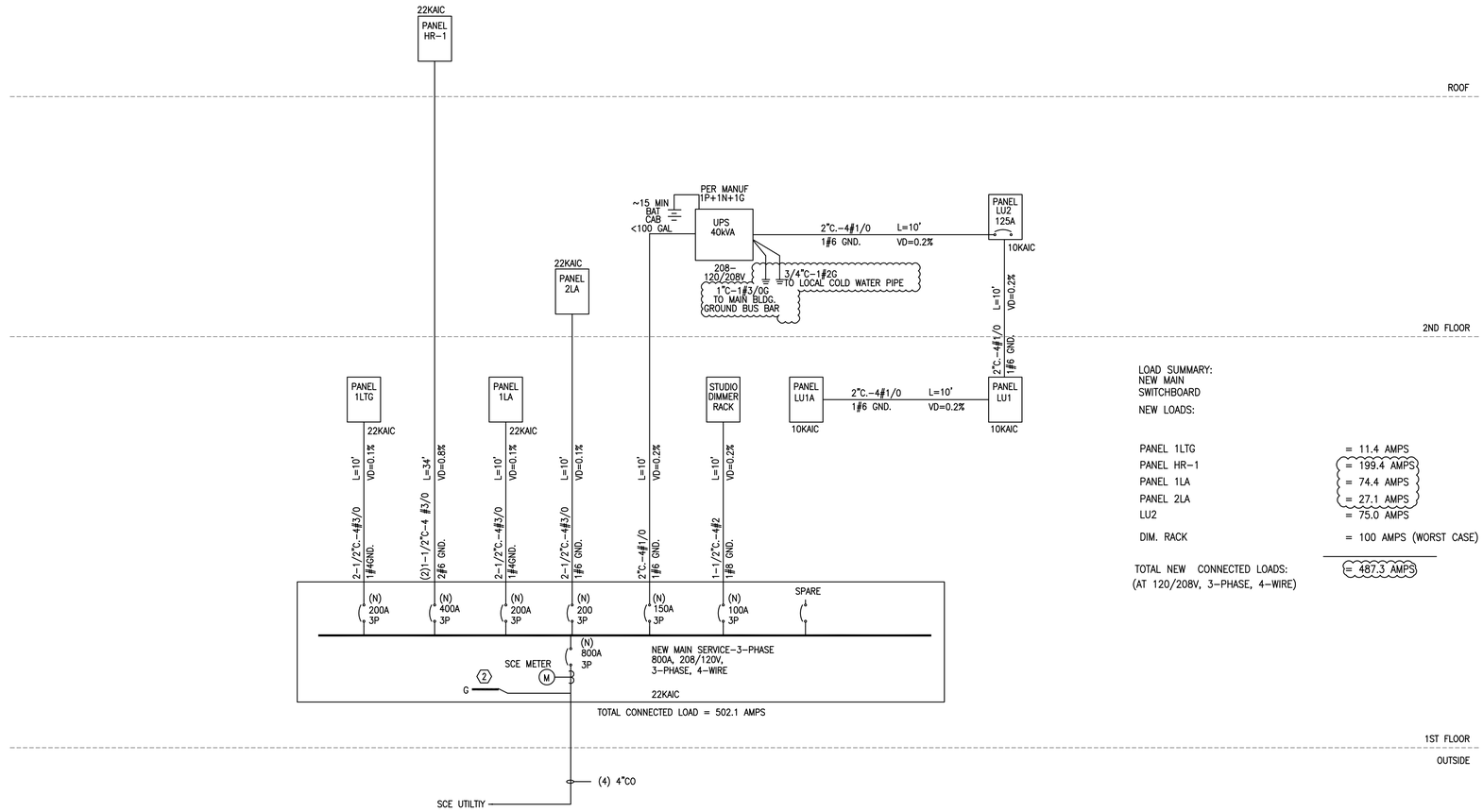
DRAWING
LIGHTING FIXTURE SCHEDULE

STAMP

DATE -
DRAWN -
REVIEWED
SCALE NONE

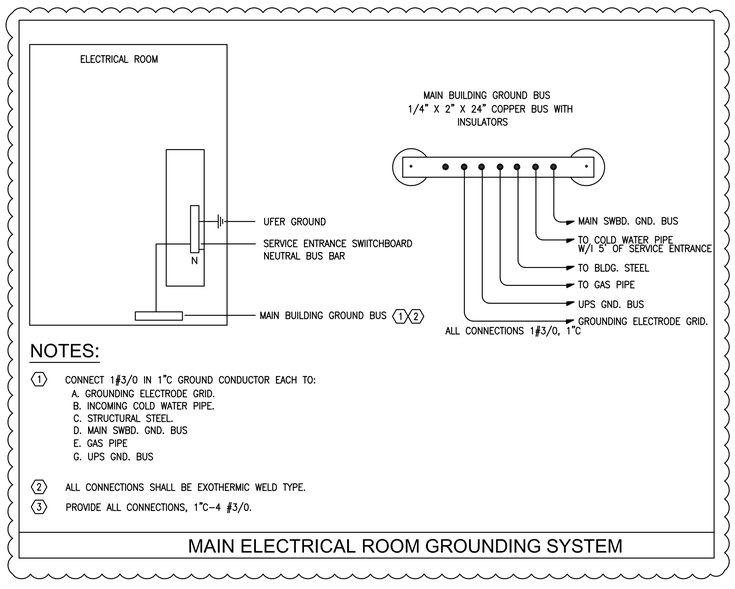
PROJECT NO. 12-805

DRAWING NO. E0.3



LOAD SUMMARY:
NEW MAIN SWITCHBOARD
NEW LOADS:

PANEL 1LTG	= 11.4 AMPS
PANEL HR-1	= 199.4 AMPS
PANEL 1LA	= 74.4 AMPS
PANEL 2LA	= 27.1 AMPS
LU2	= 75.0 AMPS
DIM. RACK	= 100 AMPS (WORST CASE)
TOTAL NEW CONNECTED LOADS: (AT 120/208V, 3-PHASE, 4-WIRE)	= 487.3 AMPS



NOTES:

1. CONNECT 1#3/0 IN 1"C GROUND CONDUCTOR EACH TO:
   A. GROUNDING ELECTRODE GRID.
   B. INCOMING COLD WATER PIPE.
   C. STRUCTURAL STEEL.
   D. MAIN SWBD. GND. BUS
   E. GAS PIPE
   G. UPS GND. BUS
2. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD TYPE.
3. PROVIDE ALL CONNECTIONS, 1"C-4 #3/0.

MAIN ELECTRICAL ROOM GROUNDING SYSTEM

SPECIFIC NOTES

1. REFER TO PANEL SCHEDULE DRAWINGS FOR PANEL LOADS.
2. SEE DETAIL ON THIS SHEET FOR MAIN ELECTRICAL ROOM GROUNDING DETAIL FOR MORE INFORMATION.

GENERAL NOTES

1. ALL EQUIPMENT, DEVICES AND FEEDERS SHOWN ON THIS SINGLE LINE DIAGRAM ARE NEW, UNLESS OTHERWISE INDICATED AS EXISTING.
2. LABEL ALL NEW ELECTRICAL EQUIPMENT INCLUDE EQUIPMENT IDENTIFICATION, VOLTAGE, KVA RATING, SOURCE FED FROM AND FED TO. LABEL SHALL BE LAMICOID SCREW DOWN WITH 1/2" WHITE LETTERING ON BLACK BACKGROUND.
3. REFER TO PANELBOARD SCHEDULES FOR CIRCUITING OF NEW PANELBOARDS.
4. FEEDER LENGTH SHOWN IS FOR INFORMATION AND PLANCHECK PURPOSE ONLY.
5. PROVIDE SPRING MOUNTS ON UPS.
6. UNLESS OTHERWISE SHOWN, ALL NEW 208/120V PANELS SHALL BE RATED AT 225A, 10 KAIC.
7. ALL WORK TO COMPLY WITH 2001 CALIFORNIA MECHANICAL CODE, CALIFORNIA ELECTRICAL CODE, AND CALIFORNIA PLUMBING CODE.

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4	PC-RESUBMIT		08.31.09				

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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

SINGLE LINE DIAGRAM
DRAWING

STAMP	DATE	12-805 PROJECT NO.
	DRAWN -	
	REVIEWED -	E0.4
	SCALE NONE	DRAWING NO.

ARC

JOB: SANTA MONICA CITY TV — 1LA

208/120V : PANEL VOLTAGE:
3PH 4W : PHASE & WIRE
225 : AMP BUSSING
MLO : MAIN TYPE
22KAIC : AIC

ENGINEERING
ISSUE DATE: 10–07–09

PANEL

CIRCUIT		CKT BKR		LOAD TYPE & DESIGNATION				LOAD	PHASES			LOAD	LOAD TYPE & DESIGNATION				CKT BKR		CIRCUIT	
NO	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	C	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO
1	3	20	1	STUDIO		5		900	1400	----	----	500		1		SEPARATE CIRCUIT	1	20	3	2
3	3	20	1	STUDIO		5		900	----	1400	----	500			1	GARBAGE DISPOSAL	1	20	3	4
5	3	20	1	STUDIO/SOUNDLOCK		5		900	----	----	1400	500		1		SEPARATE CIRCUIT	1	20	3	6
7	3	20	1	CONTROL/DUB/EDIT RMS.		5		900	1400	----	----	500		1		SEPARATE CIRCUIT	1	20	3	8
9	3	20	1	EDIT RMS.		6		1080	----	1280	----	200			1	EXHAUST FAN	1	20	2	10
11	3	20	1	PRODUCTION OFFICE/STORAGE		5		900	----	----	1100	200			1	EXHAUST FAN	1	20	2	12
13	3	20	1	FIELD STORAGE/HALL		5		900	1100	----	----	200			1	EXHAUST FAN	1	20	2	14
15	3	20	1	CONFERENCE RM.		4		720	----	4880	----	4160			1	WATER HEATER	2	40	2	16
17	3	20	1	CONF. RM/PROD. OFFICE		4		720	----	----	4880	4160				WITH CIRUCIT–16	–	–	2	18
19	3	20	1	CONF. RM/PROD. OFFICE		5		900	2280	----	----	1380			1	SUPM PUMPS	2	30	2	20
21	3	20	1	RECEPTION		6		1080	----	2460	----	1380				WITH CIRUCIT–20	–	–	2	22
23	3	20	1	RECEPTION		4		720	----	----	820	100			1	PUMPS CONTROL PANEL	1	20	1	24
25	3	20	1	MANAGER OFFICE		5		900	900	----	----					SPARE	1	20		26
27	3	20	1	MANAGER OFFICE		5		900	----	900	----					SPARE	1	20		28
29	3	20	1	MANAGER OFFICE		4		720	----	----	720					SPARE	1	20		30
31	3	20	1	PROGRAMMING OFFICE		6		1080	1080	----	----					SPARE	1	20		32
33	3	20	1	PROGRAMMING OFFICE		6		1080	----	1080	----					SPARE	1	20		34
35	3	20	1	PRODUCTION OFFICE		5		900	----	----	900					SPARE	1	20		36
37	3	20	1	PRODUCTION OFFICE		5		900	900	----	----					SPARE	1	20		38
39	3	20	1	CORRIDOR GEN. REC.		5		900	----	900	----					SPARE	1	20		40
41	3	20	1	RESTROOMS		2		360	----	----	360					SPARE	1	20		42
							TOTAL	9060	12900	10180									SUM	

CONNECTED KVA	32.1	SUM
CONN.KVA (CONT=1)	0.1	0.1
CONN.KVA (N–CONT=2)	11.7	11.7
CONN.KVA (RECEP=3)	20.4	20.4
CONN.KVA (KITCHEN=4)	0.0	0.0
	0.0	
DEMAND KVA	27.0	
DEMAND AMPS	74.4	

NOTES:

CKT CODE: 1=(CONTINUOUS)
2=(NON–CONTINUOUS)
3=(RECEPTACLES)
4=(KITCHEN)

ARC

JOB: SANTA MONICA CITY TV — 1LTG

208/120V : PANEL VOLTAGE:
3PH 4W : PHASE & WIRE
225 : AMP BUSSING
MLO : MAIN TYPE
22KAIC : AIC

ENGINEERING
ISSUE DATE: 08–24–10

PANEL

CIRCUIT		CKT BKR		LOAD TYPE & DESIGNATION				LOAD	PHASES			LOAD	LOAD TYPE & DESIGNATION				CKT BKR		CIRCUIT	
NO	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	C	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO
1	1	20	1	CORRIDOR LIGHTING			24	644	644	----	----					SPARE	1	20		2
3	1	20	1	STRUDIO LIGHTING			13	926	----	926	----					SPARE	1	20		4
5	1	20	1	CONTROL RM/PROD. OFFICES			21	738	----	----	738					SPARE	1	20		6
7	1	20	1	EDIT RMS/ PROD. OFFICES			18	576	576	----	----					SPARE	1	20		8
9	1	20	1	PROD. OFFICES/PANTRY			19	532	----	532	----					SPARE	1	20		10
11		20	1	SPARE					----	----	0					SPARE	1	20		12
13		20	1	SPARE					0	----	----					SPARE	1	20		14
15		20	1	SPARE					----	0	----					SPARE	1	20		16
17		20	1	SPARE					----	----	0					SPARE	1	20		18
19		20	1	SPARE					0	----	----					SPARE	1	20		20
21		20	1	SPARE					----	0	----					SPARE	1	20		22
23		20	1	SPARE					----	----	0					SPARE	1	20		24
25									0	----	----									26
27									----	0	----									28
29									----	----	0									30
31									0	----	----									32
33									----	0	----									34
35									----	----	0									36
37									0	----	----									38
39									----	0	----									40
41									----	----	0									42
							TOTAL	1220	1458	738									SUM	

CONNECTED KVA	3.4	SUM
CONN.KVA (CONT=1)	3.4	3.4
CONN.KVA (N–CONT=2)	0.0	0.0
CONN.KVA (RECEP=3)	0.0	0.0
CONN.KVA (KITCHEN=4)	0.0	0.0
	0.0	
DEMAND KVA	4.3	
DEMAND AMPS	11.8	

NOTES:

CKT CODE: 1=(CONTINUOUS)
2=(NON–CONTINUOUS)
3=(RECEPTACLES)
4=(KITCHEN)

ARC

JOB: SANTA MONICA CITY TV — 2LA

208/120V : PANEL VOLTAGE:
3PH 4W : PHASE & WIRE
225 : AMP BUSSING
MCB : MAIN TYPE
22KAIC : AIC

ENGINEERING
ISSUE DATE: 10–07–09

PANEL

CIRCUIT		CKT BKR		LOAD TYPE & DESIGNATION				LOAD	PHASES			LOAD	LOAD TYPE & DESIGNATION				CKT BKR		CIRCUIT	
NO	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	C	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO
1	3	20	1	SERVER RM.		4		720	1084	----	----	364			1	FCU–1	2	15	2	2
3	3	20	1	ATTIC		4		720	----	1084	----	364				WITH CIRCUIT–2	–	–	2	4
5	3	20	1	ATTIC		4		720	----	----	1084	364			1	FCU–2	2	15	2	6
7	3	20	1	ATTIC/MECH. RM.					364	----	----	364				WITH CIRCUIT–6	–	–	2	8
9	2	20	1	CONDENSATE PUMPS	9			300	----	653	----	353			1	FCU–3	2	15	2	10
11		20	1	SPARE					----	----	353	353				WITH CIRCUIT–10	–	–	2	12
13	1	20	1	NEW LIGHTING			12	768	1132	----	----	364			1	FCU–4	2	15	2	14
15		20	1	SPARE					----	364	----	364				WITH CIRCUIT–12	–	–	2	16
17		20	1	SPARE					----	----	364	364			1	FCU–5	2	15	2	18
19		20	1	SPARE					364	----	----	364				WITH CIRCUIT–18	–	–	2	20
21		20	1	SPARE					----	353	----	353			1	FCU–6	2	15	2	22
23		20	1	SPARE					----	----	353	353				WITH CIRCUIT–22	–	–	2	24
25		20	1	SPARE					676	----	----	676			1	FCU–7	2	15	2	26
27		20	1	SPARE					----	676	----	676				WITH CIRCUIT–26	–	–	2	28
29		20	1	SPARE					----	----	364	364			1	FCU–8	2	15	2	30
31		20	1	SPARE					364	----	----	364				WITH CIRCUIT–30	–	–	2	32
33		20	1	SPARE					----	0	----					SPARE	1	20		34
35		20	1	SPARE					----	----	0					SPARE	1	20		36
37		20	1	SPARE					0	----	----					SPARE	1	20		38
39		20	1	SPARE					----	0	----					SPARE	1	20		40
41		20	1	SPARE					----	----	0					SPARE	1	20		42
							TOTAL	3984	3130	2518									SUM	

CONNECTED KVA	9.6	SUM
CONN.KVA (CONT=1)	0.8	0.8
CONN.KVA (N–CONT=2)	6.7	6.7
CONN.KVA (RECEP=3)	2.2	2.2
CONN.KVA (KITCHEN=4)	0.0	0.0
	0.0	
DEMAND KVA	9.8	
DEMAND AMPS	27.1	

NOTES:

CKT CODE: 1=(CONTINUOUS)
2=(NON–CONTINUOUS)
3=(RECEPTACLES)
4=(KITCHEN)

ARC

JOB: SANTA MONICA CITY TV — HR1

208/120V : PANEL VOLTAGE:
3PH 4W : PHASE & WIRE
400 : AMP BUSSING
MCB : MAIN TYPE
22KAIC : AIC

ENGINEERING
ISSUE DATE: 10–07–09

PANEL

CIRCUIT		CKT BKR		LOAD TYPE & DESIGNATION				LOAD	PHASES			LOAD	LOAD TYPE & DESIGNATION				CKT BKR		CIRCUIT	
NO	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	C	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO
1	2	25	2	HP–1				1820	3380	----	----	1560			1	CU–1	1	20	2	2
3	2	–	–	WITH CIRCUIT–1				1820	----	3380	----	1560				WITH CIRCUIT–2	1	20	2	4
5	2	25	2	HP–2				1820	----	----	3380	1560				WITH CIRCUIT–2	1	20	2	6
7	2	–	–	WITH CIRCUIT–5				1820	2360	----	----	540		3		MAINTENANCE REC.	1	20	3	8
9	2	20	3	HP–3				1524	----	2244	----	720		4		MAINTENANCE REC.	1	20	3	10
11	2	–	–	WITH CIRCUIT–9				1524	----	----	3048	1524				HP–6	3	20	2	12
13	2	–	–	WITH CIRCUIT–9				1524	3048	----	----	1524				WITH CIRCUIT–12	–	–	2	14
15	2	25	2	HP–4				1820	----	3567	----	1747				WITH CIRCUIT–12	–	–	2	16
17	2	–	–	WITH CIRCUIT–13				1820	----	----	4400	2580				HP–7	3	35	2	18
19	2	25	2	HP–5				1820	4400	----	----	2580				WITH CIRCUIT–20	–	–	2	20
21	2	–	–	WITH CIRCUIT–13				1820	----	4400	----	2580				WITH CIRCUIT–20	–	–	2	22
23	2	25	2	HP–8				1820	----	----	1820					SPARE	1	20		24
25	2	–	–	WITH CIRCUIT–29				1820	1820	----	----					SPARE	1	20		26
27		20	1	SPARE					----	0	----					SPARE	1	20		28
29		20	1	SPARE					----	----	0					SPARE	1	20		30
31		20	1	SPARE					0	----	----					SPARE	1	20		32
33	2	100	3	RTU				10320	----	10320	----					SPARE	1	20		34
35	2	–	–	WITH CIRCUIT–33				10320	----	----	10320					SPARE	1	20		36
37	2	–	–	WITH CIRCUIT–33				10320	10320	----	----					SPARE	1	20		38
39	2	20	1	CONDENSATE PUMP	1			100	----	100	----					SPARE	1	20		40
41		20	1	SPARE					----	----	0					SPARE	1	20		42
							TOTAL	25328	24011	22968									SUM	

CONNECTED KVA	72.3	SUM
CONN.KVA (CONT=1)	0.0	0.0
CONN.KVA (N–CONT=2)	71.0	71.0
CONN.KVA (RECEP=3)	1.3	1.3
CONN.KVA (KITCHEN=4)	0.0	0.0
	0.0	
DEMAND KVA	72.3	
DEMAND AMPS	199.4	

NOTES:

CKT CODE: 1=(CONTINUOUS)
2=(NON–CONTINUOUS)
3=(RECEPTACLES)
4=(KITCHEN)

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NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC–COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC–RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC–RESUBMIT		08.31.09				

KEYPLAN

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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

PANEL SCHEDULES
DRAWING

STAMP

DATE: -
DRAWN: -
REVIEWED: NONE
SCALE

12-805
PROJECT NO.

E0.5
DRAWING NO.

ARC

ENGINEERING

ISSUE DATE: 10-07-09

JOB: SANTA MONICA CITY TV

208/120V : PANEL VOLTAGE:
3PH 4W : PHASE & WIRE
225 : AMP BUSSING
125 MCB : MAIN TYPE
10KAIC : AIC

LU1

PANEL

CIRCUIT NO	CKT BKR CODE	CKT BKR TRIP	CKT BKR POLE	LOAD TYPE & DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	PHASES B	PHASES C	LOAD VA	LOAD TYPE & DESIGNATION LITE	REC	MISC	DESCRIPTION	CKT BKR POLE	CKT BKR TRIP	CIRCUIT CODE	CIRCUIT NO
1	3	20	1	STUDIO		1		600	1200	----	----	600				CONTROL RM.	1	20	3	2
3	3	20	1	STUDIO		1		600	----	1200	----	600				CONTROL RM.	1	20	3	4
5	3	20	1	STUDIO		1		600	----	----	1200	600				CONTROL RM.	1	20	3	6
7	3	20	1	STUDIO		1		600	1200	----	----	600				DUB RM.	1	20	3	8
9	3	20	1	STUDIO		1		600	----	1200	----	600				DUB RM.	1	20	3	10
11	3	20	1	STUDIO		1		600	----	----	1200	600				DUB RM.	1	20	3	12
13	3	20	1	STUDIO		1		600	1200	----	----	600				DUB RM.	1	20	3	14
15	3	20	1	STUDIO		1		600	----	1200	----	600				DUB RM.	1	20	3	16
17	3	20	1	CONTROL RM.		1		600	----	----	1200	600				DUB RM.	1	20	3	18
19	3	20	1	STUDIO		1		600	1200	----	----	600				DUB RM.	1	20	3	20
21	3	20	1	STUDIO		1		600	----	1200	----	600				DUB RM.	1	20	3	22
23	3	20	1	STUDIO		1		600	----	----	1200	600				DUB RM.	1	20	3	24
25	3	20	1	STUDIO		1		600	1200	----	----	600				CONFERENCE RM.	1	20	3	26
27	3	20	1	STUDIO		1		600	----	1200	----	600				CONFERENCE RM.	1	20	3	28
29	3	20	1	STUDIO		1		600	----	----	1200	600				CONFERENCE RM.	1	20	3	30
31	3	20	1	EXTERIOR		1		600	1200	----	----	600				EDIT RM. 2	1	20	3	32
33	3	20	1	CONTROL RM.		1		600	----	1200	----	600				EDIT RM. 2	1	20	3	34
35	3	20	1	CONTROL RM.		1		600	----	----	600					SPARE	1	20		36
37	3	20	1	CONTROL RM.		1		600	600	----	----	See load below				PANEL LU1A	3	125		38
39	3	20	1	EDIT RM.		1		600	----	600	----					WITH CIRCUIT-38	–	–		40
41	3	20	1	EDIT RM.		1		600	----	----	600					WITH CIRCUIT-38	–	–		42
							TOTAL	7800	7800	7200					CONNECTED KVA	22.8	Panel LU1A		SUM	

NOTES:

CONN.KVA (CONT=1)	0.0	0	0.0
CONN.KVA (N-CONT=2)	0.0	0	0.0
CONN.KVA (RECEP=3)	22.8	10.2	33.0
CONN.KVA (KITCHEN=4)	0.0	0	0.0
	0.0		
DEMAND KVA	21.5		
DEMAND AMPS	59.3		

CKT CODE: 1=(CONTINUOUS)
2=(NON-CONTINUOUS)
3=(RECEPTACLES)
4=(KITCHEN)

ARC

ENGINEERING

ISSUE DATE: 10-07-09

JOB: SANTA MONICA CITY TV

208/120V : PANEL VOLTAGE:
3PH 4W : PHASE & WIRE
225 : AMP BUSSING
MLO : MAIN TYPE
10KAIC : AIC

LU1A

PANEL

CIRCUIT NO	CKT BKR CODE	CKT BKR TRIP	CKT BKR POLE	LOAD TYPE & DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	PHASES B	PHASES C	LOAD VA	LOAD TYPE & DESIGNATION LITE	REC	MISC	DESCRIPTION	CKT BKR POLE	CKT BKR TRIP	CIRCUIT CODE	CIRCUIT NO
1	3	20	1	PRODUCTION OFFICE		1		600	600	----	----					SPARE	1	20		2
3	3	20	1	PRODUCTION OFFICE		1		600	----	600	----					SPARE	1	20		4
5	3	20	1	RECEPTION		1		600	----	----	600					SPARE	1	20		6
7	3	20	1	RECEPTION		1		600	600	----	----					SPARE	1	20		8
9	3	20	1	FIELD STORAGE		1		600	----	600	----					SPARE	1	20		10
11	3	20	1	ASSISTANT/RECEPTION		1		600	----	----	600					SPARE	1	20		12
13	3	20	1	PRODUCTION OFFICE		1		600	600	----	----					SPARE	1	20		14
15	3	20	1	PRODUCTION OFFICE		1		600	----	600	----					SPARE	1	20		16
17	3	20	1	MANAGER OFFICE		1		600	----	----	600					SPARE	1	20		18
19	3	20	1	MANAGER OFFICE		1		600	600	----	----					SPARE	1	20		20
21	3	20	1	MANAGER OFFICE		1		600	----	600	----					SPARE	1	20		22
23	3	20	1	MANAGER OFFICE		1		600	----	----	600					SPARE	1	20		24
25	3	20	1	PROGRAMMING OFFICE		1		600	600	----	----					SPARE	1	20		26
27	3	20	1	PROGRAMMING OFFICE		1		600	----	600	----					SPARE	1	20		28
29	3	20	1	PROGRAMMING OFFICE		1		600	----	----	600					SPARE	1	20		30
31	3	20	1	PRODUCTION OFFICE		1		600	600	----	----					SPARE	1	20		32
33	3	20	1	PRODUCTION OFFICE		1		600	----	600	----					SPARE	1	20		34
35		20	1	SPARE					----	----	0					SPARE	1	20		36
37		20	1	SPARE					0	----	----					SPARE	1	20		38
39		20	1	SPARE					----	0	----					SPARE	1	20		40
41		20	1	SPARE					----	----	0					SPARE	1	20		42
							TOTAL	3600	3600	3000					CONNECTED KVA	10.2			SUM	

NOTES:

CONN.KVA (CONT=1)	0.0		0.0
CONN.KVA (N-CONT=2)	0.0		0.0
CONN.KVA (RECEP=3)	10.2		10.2
CONN.KVA (KITCHEN=4)	0.0		0.0
	0.0		
DEMAND KVA	10.1		
DEMAND AMPS	27.8		

CKT CODE: 1=(CONTINUOUS)
2=(NON-CONTINUOUS)
3=(RECEPTACLES)
4=(KITCHEN)

ARC

ENGINEERING

ISSUE DATE: 10-07-09

JOB: SANTA MONICA CITY TV

208/120V : PANEL VOLTAGE:
3PH 4W : PHASE & WIRE
225 : AMP BUSSING
125 MCB : MAIN TYPE
10KAIC : AIC

LU2

PANEL

CIRCUIT NO	CKT BKR CODE	CKT BKR TRIP	CKT BKR POLE	LOAD TYPE & DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	PHASES B	PHASES C	LOAD VA	LOAD TYPE & DESIGNATION LITE	REC	MISC	DESCRIPTION	CKT BKR POLE	CKT BKR TRIP	CIRCUIT CODE	CIRCUIT NO
1	3	20	1	SEPARATE CKT/SERVER RM.		1		600	1200	----	----	600		1		RACK OUTLET	1	20	3	2
3	3	20	1	SEPARATE CKT/SERVER RM.		1		600	----	1200	----	600		1		RACK OUTLET	1	20	3	4
5	3	20	1	SEPARATE CKT/SERVER RM.		1		600	----	----	1200	600		1		RACK OUTLET	1	20	3	6
7	3	20	1	SEPARATE CKT/SERVER RM.		1		600	1200	----	----	600		1		RACK OUTLET	1	20	3	8
9	3	20	1	SEPARATE CKT/SERVER RM.		1		600	----	1200	----	600		1		RACK OUTLET	1	20	3	10
11	3	20	1	RACK OUTLET		1		600	----	----	1200	600		1		RACK OUTLET	1	20	3	12
13	3	20	1	RACK OUTLET		1		600	1200	----	----	600		1		RACK OUTLET	1	20	3	14
15	3	20	1	RACK OUTLET		1		600	----	600	----					SPARE	1	20		16
17	3	20	1	RACK OUTLET		1		600	----	----	600					SPARE	1	20		18
19	3	20	1	RACK OUTLET		1		600	600	----	----					SPARE	1	20		20
21	3	20	1	RACK OUTLET		1		600	----	600	----					SPARE	1	20		22
23	3	20	1	RACK OUTLET		1		600	----	----	600					SPARE	1	20		24
25		20	1	SPARE					0	----	----					SPARE	1	20		26
27		20	1	SPARE					----	0	----					SPARE	1	20		28
29		20	1	SPARE					----	----	0					SPARE	1	20		30
31		20	1	SPARE					0	----	----					SPARE	1	20		32
33		20	1	SPARE					----	0	----					SPARE	1	20		34
35		20	1	SPARE					----	----	0					SPARE	1	20		36
37		125	3	PANEL LU1			See load below		0	----	----					SPARE	1	20		38
39		–	–	WITH CIRCUIT-37					----	0	----					SPARE	1	20		40
41		–	–	WITH CIRCUIT-37					----	----	0					SPARE	1	20		42
							TOTAL	4200	3600	3600					CONNECTED KVA	11.4	Panel LU1		SUM	

NOTES:

CONN.KVA (CONT=1)	0.0	0	0.0
CONN.KVA (N-CONT=2)	0.0	0	0.0
CONN.KVA (RECEP=3)	11.4	33	44.4
CONN.KVA (KITCHEN=4)	0.0	0	0.0
	0.0		
DEMAND KVA	27.2		
DEMAND AMPS	75.0		

CKT CODE: 1=(CONTINUOUS)
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4=(KITCHEN)

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www.arceng.net

NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC-COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC-RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC-RESUBMIT		08.31.09				

KEYPLAN

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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

PANEL SCHEDULES
DRAWING

STAMP

DATE -
DRAWN -
REVIEWED
SCALE NONE

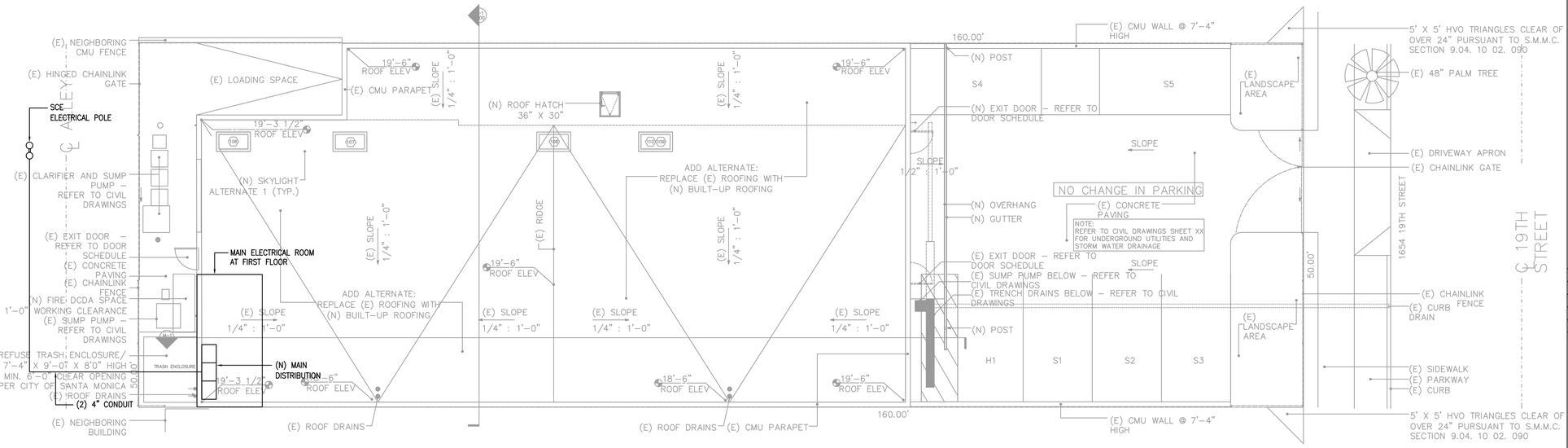
12-805
PROJECT NO.

E0.6
DRAWING NO.

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NOTE:
1. PRIOR TO CONTSTRUCTION OF UNDERGROUND UTILITIES,
SEPERATE UTILITY EXCAVATION PERMIT TO BE OBTAINED FROM EPWM DEPARTMENT, ADMINISTRATIVE SERVICES, CITY HALL ROOM 113.

NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC–COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC–RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC–RESUBMIT		08.31.09				

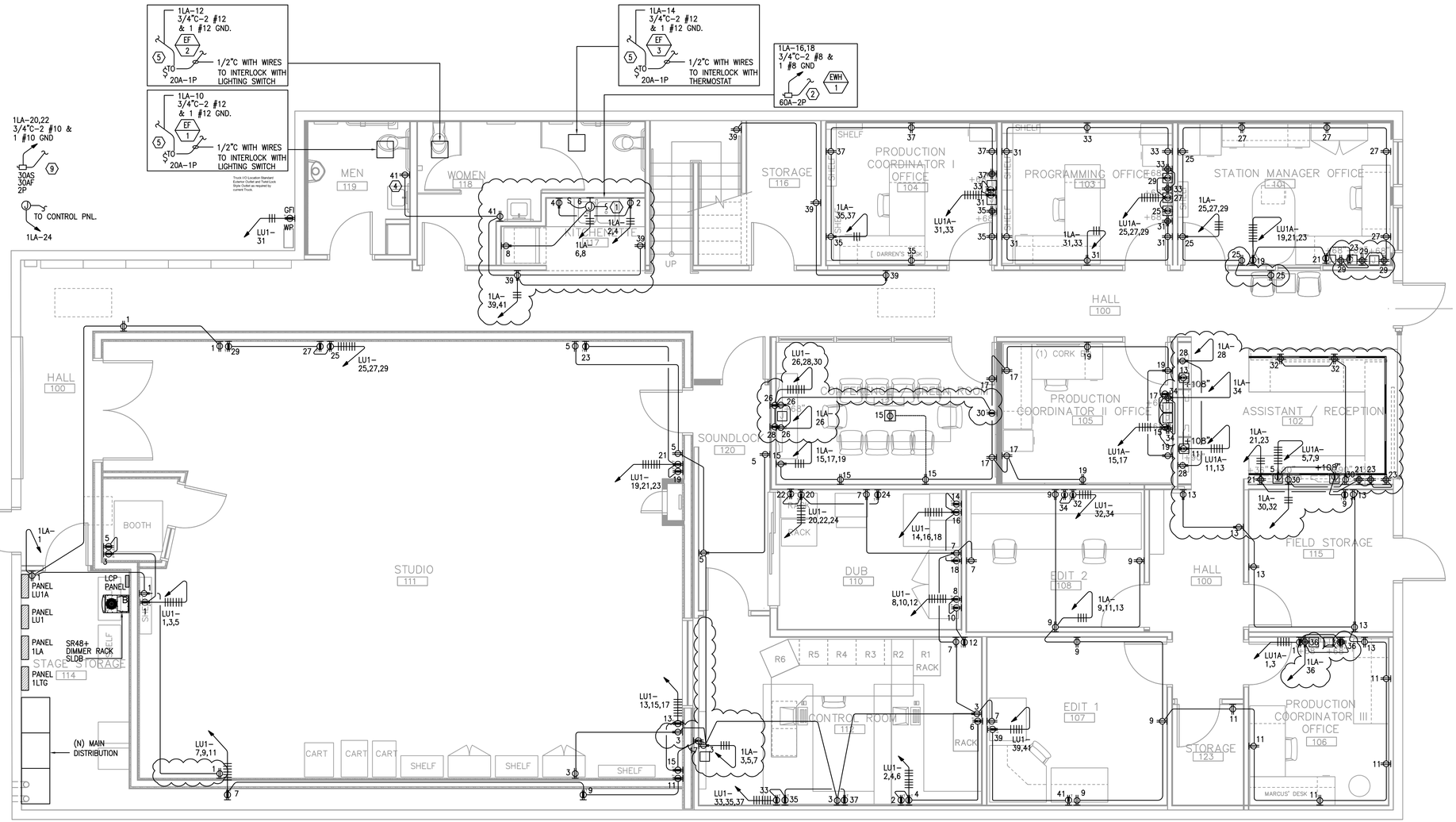
KEYPLAN

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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

ELECTRICAL SITE PLAN
DRAWING

STAMP	– DATE	12-805 PROJECT NO.
	- DRAWN	E1.1
	- REVIEWED	
	1/8"=1'-0 SCALE	DRAWING NO.



GENERAL NOTES:

1. DRAWING SHOWS DESIRED ELECTRICAL LAYOUT WITH NEW LOCATION OF RECEPTACLES, HARD WIRED JUNCTION BOX, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF DEVICES WITH OTHER SUBCONTRACTOR TO AVOID CONFLICT OF ACCESS TO THE DEVICES.
2. ALL JUNCTION BOXES SHALL BE SIZED PER NEC TABLE 370-16(a).
3. ALL PENETRATIONS INTO FIRE RATED WALL AND ALL FLOOR CORING SHALL BE FIRE SEALED X-RAYED FOR CORING. FOR ALL CONDUIT PENETRATION, SEE TYPICAL DETAIL ON ARCHITECTURAL DRAWINGS.
4. UNLESS OTHERWISE NOTED, ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTION(S) ARE NEW. SEE MECHANICAL DRAWINGS FOR ACTUAL LOCATION AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
5. NO EQUIPMENT, JUNCTION BOX, ETC. REQUIRING ACCESS SHALL BE LOCATED IN HARD CEILING AREAS (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). RELOCATE ANY EXISTING EQUIPMENT, JUNCTION BOX, ETC. TO ACCESSIBLE CEILING AREA.
6. TELE/DATA CONDUITS AND POWER CONDUITS IF RUN PARALLEL, SHALL HAVE NO LESS THAN 12" SEPARATION BETWEEN CONDUITS. ALL EXPOSED CONDUIT SHALL BE EMT AND SHALL BE RUN AS HIGH AS POSSIBLE, GROUP AND SPACED EVENLY WITH TYPICAL HANGERS.
7. FOR EQUIPMENT REQUIRING SPECIAL RECEPTACLE, PROVIDE RECEPTACLE WITH NEMA CONFIGURATION TO MATCH EQUIPMENT PLUG. VERIFY WITH EQUIPMENT MANUFACTURER.
8. PROVIDE 1/2"C FROM EACH THERMOSTAT TO RESPECTIVE FOR AC UNIT OR EXHAUST FAN. REFER TO MECHANICAL DRAWINGS EXACT LOCATIONS AND REQUIREMENTS.
9. FOR FIRE/LIFE SAFETY REQUIREMMENTS, INCLUDING BUT NOT LIMITED TO DUCT DETECTORS SHOWN ON HVAC AND FIRE PROTECTION PLANS, CONTRACTOR SHALL MAKE PROVISIONS FOR CONNECTION OF NEW DEVICES TO BUILDING FIRE LIFE/SAFETY SYSTEM AS OUTLINED ON SHEET E0.1 SERIES.
10. CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY. FIELD VERIFY EXACT EXISTING CIRCUIT NUMBERS. FOR NEW HOMERUNS USE OTHER AVAILABLE SPARE CIRCUITS IN THE PANEL FEEDING THIS AREA IF NECESSARY.
11. PROVIDE AND INSTALL #10 WIRES FOR MORE THAN 100'-0" CIRCUIT HOMERUNS.

SPECIFIC NOTES

1. PROVIDE JUNCTION BOX FOR HARDWIRE CONNECTION TO GARBAGE DISPOSER WITH WALL MOUNTED SWITCH, +6" ABOVE FINISHED COUNTER IN 3/4"C-2# 10 & 1 #10 GND. VERIFY EXACT LOCATION OF SWITCH WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE AND INSTALL RATED DISCONNECT SWITCH AND AS REQUIRED FOR CONNECTIONS TO ELECTRIC WATER HEATER LOCATED PER PLUMBING DRAWINGS. LOCATE AND INSTALL DISCONNECT SWITCH ADJACENT TO ELECTRIC WATER HEATER AND COORDINATE EXACT REQUIREMENTS TO PLUMBING CONTRACTOR PRIOR ROUGH-IN.
3. PROVIDE 120V (UON) POWER DAISY CHAIN CONNECTION TO ALL NEW VAV BOXES IN THIS AREA, LOCATED PER MECHANICAL DRAWINGS, VIA 1/2"C-2 #12. NO MORE THAN 10 VAV BOXES ARE TO BE CONNECTED TO A SINGLE 20A, 1-POLE CIRCUIT BREAKER. VERIFY EXACT LOCATION WITH SYSTEM INSTALLER PRIOR TO ROUGH-IN.
4. RE-CONNECT EXISTING RECEPTACLES TO CIRCUIT 1LA-41. ELECTRICAL CONTRACTOR TO CHECK AND RE-BALANCE THE LOAD TO AVOID OVERLOADING.
INTERCEPT AND EXTEND NEW CONDUIT AND WIRES AS REQUIRED FOR COMPLETE AND WORKABLE INSTALLATION.
5. PROVIDE MANUAL AUTOMATIC MOTOR RATED STARTER FOR EXHAUST. PROVIDE 1/2"C. WITH WIRES TO INTERLOCK WITH THERMOSTAT OR LIGHTING SWITCH IN ROOM WHERE THE UNIT SERVES. PROVIDE AS REQUIRED PER MECHANICAL REQUIREMENTS FOR COMPLETE INSTALLATION. VERIFY EXACT ROUTING AND LOCATION PRIOR TO ROUGH-IN.
6. PROVIDE 1/2"CO TO CONTROLLING THERMOSTAT, LOCATED PER HVAC PLAN. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
7. PROVIDE 1/2"CO TO CONTROLLING THERMOSTAT, LOCATED PER HVAC PLAN. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
8. REFER TO "TV MAGIC" A/V DRAWINGS FOR EXACT QUANTITY AND SIZE OF CONDUIT SLEEVE OR E-Z PATH SLEEVE, AND AV PANEL LAYOUT/INFRASTRUCTURE.
9. PROVIDE AND INSTALL AUTOMATIC MOTOR RATED STARTER AND AS REQUIRED FOR CONNECTIONS TO SUMP PUMPS LOCATED PER CIVIL DRAWINGS. LOCATE AND INSTALL DISCONNECT SWITCH ADJACENT TO EQUIPMENT AND COORDINATE EXACT REQUIREMENTS WITH CONTRACTOR PRIOR ROUGH-IN.

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3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC-RESUBMIT		08.31.09				

KEYPLAN

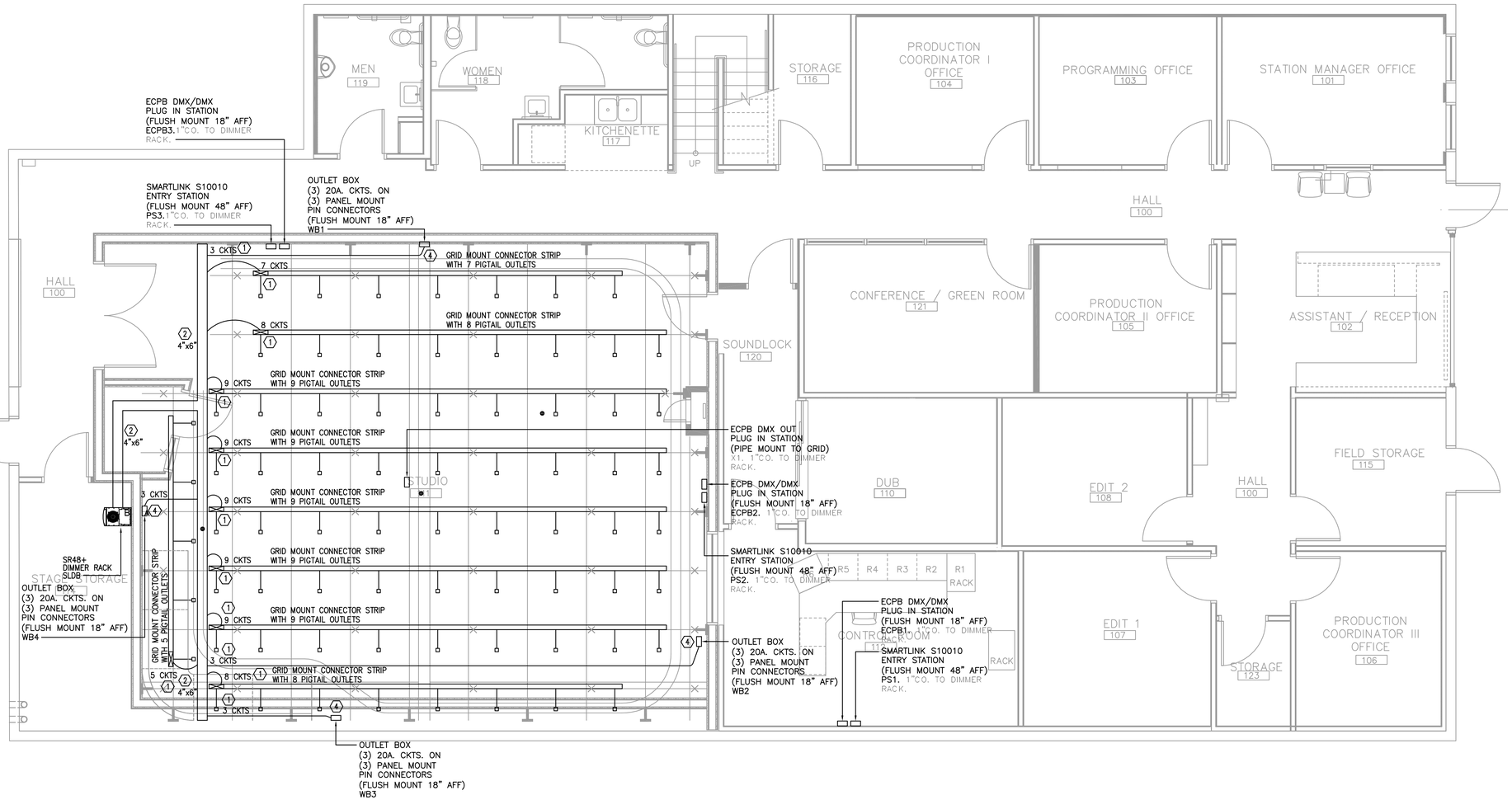
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www.nonzeroarch.com
www.bauton.com

PROJECT
SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404

DRAWING
1ST FLOOR ELECTRICAL
POWER PLAN

STAMP

–	DATE
12-805	PROJECT NO.
-	DRAWN
-	REVIEWED
1/4"=1'-0	SCALE
E2.0	DRAWING NO.



GENERAL NOTES:

1. ALL EXISTING JUNCTION BOXES, AND OTHER ELECTRICAL, TELE/DATA AND LIFE SAFETY DEVICES WHICH ARE IN CONFLICT WITH NEW ARCHITECTURAL OR ARE NOW LOCATED IN AN ACCESSIBLE SPACE DUE TO STRUCTURAL, HVAC OR ACOUSTICAL REVISIONS AS A RESULT FROM THIS BUILD–OUT, ARE TO BE RELOCATED TO AN ACCESSIBLE LOCATION. EXTEND CONDUIT AND WIRING REQUIRED FOR SUCH RELOCATION.
2. NO EQUIPMENT JUNCTION BOXES, ETC. REQUIRING ACCESS SHALL BE LOCATED IN HARD CEILING AREAS (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). LOCATE ANY EXISTING EQUIPMENT, JUNCTION BOXES, ETC., TO ACCESSIBLE CEILING AREAS.
3. VERIFY THE TYPE OF CEILING SYSTEM WITH GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE FIXTURES WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
4. SUPPORT CEILING MOUNTED LIGHTING FIXTURES DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, DUCTWORK OR ANY OTHER EQUIPMENT, OR SOLELY FROM THE SUSPENDED CEILING.
5. WHERE MULTIPLE SWITCHES ARE INDICATED, SWITCHES SHALL BE GANGED UNDER A COMMON WALL PLATE.
6. ALL SWITCH LOCATION SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH IN.
7. ALL EXPOSED CONDUITS SHALL BE EMT AND SHALL BE RUN 90 DEGREES PERPENDICULAR AND PARALLEL TO CEILING STRUCTURE AND HUG TO UNDERSIDE OF SLAB.
8. CONTRACTOR SHALL PROVIDE ADDITIONAL EXIT SIGN(S) IF REQUIRED BY THE CITY FIRE MARSHALL INSPECTOR AT NO ADDITIONAL COST TO THE OWNER.
9. CIRCUIT EGRESS LIGHTS AND EXIT SIGNS AHEAD OF SWITCH, WHERE CONNECTED TO A SHARED LIGHTING CIRCUIT ON AUTO OR OCCUPANCY SENSOR.
10. EXCEPT FOR EGRESS AND EXIT SIGNS, CONNECT ALL LIGHTING CIRCUITS VIA EXISTING LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL ROOM ON THIS FLOOR. PROVIDE ALL REQUIRED 277V AND 120V RELAYS. PROVIDE METAL BARRIER BETWEEN 277V AND 120V RELAYS. PROVIDE REQUIRED LOCAL OVERIDE SWITCH PER BUILDING STANDARD.
11. ALL LIGHTING FIXTURES, SWITCHES, OCCUPANCY SENSORS AND LIFE SAFETY IF ANY, INCLUDING ASSOCIATED CONDUIT AND WIRES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL ARRANGE FOR A LUTRON REPRESENTATIVE TO COME TO THE JOB SITE TO MEET WITH THE OWNER'S REPRESENTATIVES FOR RE–PROGRAMMING OF THE EXISTING LUTRON SYSTEM AND DIMMING PROGRAMMING, VERIFY EXACT OWNER SWITCHING STANDARDS PRIOR TO INSTALLATION. PROVIDE CONDUIT AND WIRES AS REQUIRED FOR COMPLETE INSTALLATION WITH OWNER'S SATISFACTION PRIOR TO INSTALLATION. ALSO, VERIFY SWITCHING SEQUENCE AND RE–USED AS REQUIRED.
13. DRAWING SHOWS CIRCUITING AND SWITCHING REQUIREMETNS AND FIXTURE TYPES ONLY, VERIFY EXACT LIGHTING FIXTURES AND STANDARD SWITCHING WITH ARCHITECT AND OWNER'S PRIOR TO INSTALLATION. ALSO VERIFY EXACT LIGHTING FIXTURES VOLTAGE AND FINISH PRIOR TO INSTALLATION.

SPECIFIC NOTES

1. LIGHTING CONNECTOR STRIP ASSEMBLY NUMBER OF CIRCUITS ARE NOTED EACH TYPE OF CIRCUIT SHALL BE WIRED AS FOLLOWS:
   20A CIRCUITS: 2#12, & 1#10
   FOR MULTI–CIRCUIT AND HOMERUNS OF EACH TYPE PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT AND COMMON GROUND FOR UP TO 5 CIRCUITS. SEPARATE CONDUITS SHALL BE USED FOR EACH GROUP OF 3 CIRCUIT.
2. CEILING MOUNTED METAL RACEWAY ASSEMBLY WITH MAXIMUM 20% FILL. RACEWAY SHALL HAVE SIDE KNOCK OUTS FOR BRANCH CONDUIT TO LIGHTING CONNECTOR STRIP. PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION. RACEWAY SIZED AS NOTED OR NEXT LARGEST STANDARD SIZE.
3. PROVIDE BRANCH CIRCUITING FROM ASSIGNED DIMMER RACK VIA METAL RACEWAY TO EACH LIGHTING CONNECTOR STRIP. DIMMER CIRCUITS CONTROL ASSIGNMENT SHALL BE DETERMINED BY STUDIO LIGHTING CONSULTANT. LIGHTING CONNECTOR STRIPS PROVIDED BY STUDIO LIGHTING CONTRACTOR AND IS PRE–WIRED. CONTRACTOR SHALL MAKE CONNECTION AT EACH STRIP END AS SHOWN.
4. PROVIDE PULLBOX MOUNTED +2' AFF WITH THE FOLLOWING DIMMER CIRCUITS FOR STAGE LIGHTING RECEPTACLES:
   WB1 – (3)20A CIRCUITS (6#10+1#10G)
   EXACT LOCATION, PULLBOX CONFIGURATION, CIRCUITS AND DIMMER ASSIGNMENT TO BE CONFIRMED BY STUDIO LIGHTING CONTRACTOR.

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KEYPLAN

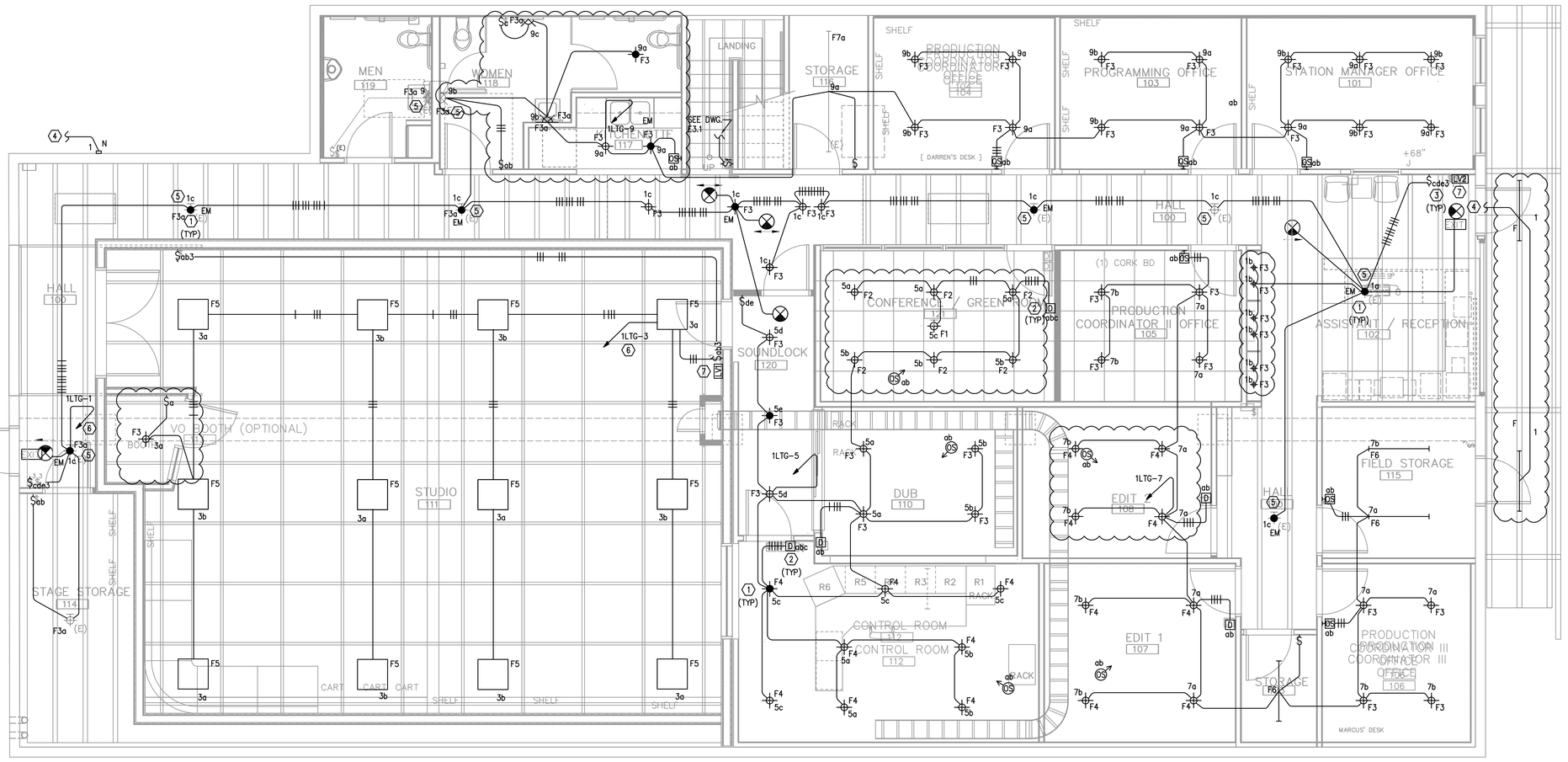
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SANTA MONICA CITY TV
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PROJECT

STUDIO/NEWSROOM
LIGHTING PLAN
DRAWING

– DATE	12-805 PROJECT NO.
- DRAWN	
- REVIEWED	E2.1A
1/4"=1'-0 SCALE	DRAWING NO.

STAMP



GENERAL NOTES:

1. ALL EXISTING JUNCTION BOXES, AND OTHER ELECTRICAL, TELE/DATA AND LIFE SAFETY DEVICES WHICH ARE IN CONFLICT WITH NEW ARCHITECTURAL OR ARE NOW LOCATED IN AN ACCESSIBLE SPACE DUE TO STRUCTURAL, HVAC OR ACOUSTICAL REVISIONS AS A RESULT FROM THIS BUILD-OUT, ARE TO BE RELOCATED TO AN ACCESSIBLE LOCATION. EXTEND CONDUIT AND WIRING REQUIRED FOR SUCH RELOCATION.
2. NO EQUIPMENT JUNCTION BOXES, ETC. REQUIRING ACCESS SHALL BE LOCATED IN HARD CEILING AREAS (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). LOCATE ANY EXISTING EQUIPMENT, JUNCTION BOXES, ETC., TO ACCESSIBLE CEILING AREAS.
3. VERIFY THE TYPE OF CEILING SYSTEM WITH GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE FIXTURES WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
4. SUPPORT CEILING MOUNTED LIGHTING FIXTURES DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, DUCTWORK OR ANY OTHER EQUIPMENT, OR SOLELY FROM THE SUSPENDED CEILING.
5. WHERE MULTIPLE SWITCHES ARE INDICATED, SWITCHES SHALL BE GANGED UNDER A COMMON WALL PLATE.
6. ALL SWITCH LOCATION SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH IN.
7. ALL EXPOSED CONDUITS SHALL BE EMT AND SHALL BE RUN 90 DEGREES PERPENDICULAR AND PARALLEL TO CEILING STRUCTURE AND HUG TO UNDERSIDE OF SLAB.
8. CONTRACTOR SHALL PROVIDE ADDITIONAL EXIT SIGN(S) IF REQUIRED BY THE CITY FIRE MARSHALL INSPECTOR AT NO ADDITIONAL COST TO THE OWNER.
9. CIRCUIT EGRESS LIGHTS AND EXIT SIGNS AHEAD OF SWITCH, WHERE CONNECTED TO A SHARED LIGHTING CIRCUIT ON AUTO OR OCCUPANCY SENSOR.
10. EXCEPT FOR EGRESS AND EXIT SIGNS, CONNECT ALL LIGHTING CIRCUITS VIA EXISTING LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL ROOM ON THIS FLOOR. PROVIDE ALL REQUIRED 277V AND 120V RELAYS. PROVIDE METAL BARRIER BETWEEN 277V AND 120V RELAYS. PROVIDE REQUIRED LOCAL OVERIDE SWITCH PER BUILDING STANDARD.
11. ALL LIGHTING FIXTURES, SWITCHES, OCCUPANCY SENSORS AND LIFE SAFETY IF ANY, INCLUDING ASSOCIATED CONDUIT AND WIRES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL ARRANGE FOR A LUTRON REPRESENTATIVE TO COME TO THE JOB SITE TO MEET WITH THE OWNER'S REPRESENTATIVES FOR RE-PROGRAMMING OF THE EXISTING LUTRON SYSTEM AND DIMMING PROGRAMMING, VERIFY EXACT OWNER SWITCHING STANDARDS PRIOR TO INSTALLATION. PROVIDE CONDUIT AND WIRES AS REQUIRED FOR COMPLETE INSTALLATION WITH OWNER'S SATISFACTION PRIOR TO INSTALLATION. ALSO, VERIFY SWITCHING SEQUENCE AND RE-USED AS REQUIRED.
13. DRAWING SHOWS CIRCUITING AND SWITCHING REQUIREMETNS AND FIXTURE TYPES ONLY, VERIFY EXACT LIGHTING FIXTURES AND STANDARD SWITCHING WITH ARCHITECT AND OWNER'S PRIOR TO INSTALLATION. ALSO VERIFY EXACT LIGHTING FIXTURES VOLTAGE AND FINISH PRIOR TO INSTALLATION.

SPECIFIC NOTES

1. ALL LIGHTING FIXTURES SHOWN WITH "EM" ARE TO BE PROVIDED WITH EMERGENCY BALLAST AND 90 MINUTES BATTERY PACK WITH EXTRA HOT WIRE FOR PROPER CHARGING.
2. PROVIDE A LUTRON NOVA T-STAR SERIES WALL BOX DIMMER WITH TYPE AND RATING BASED ON CONNECTED LOAD.
3. COORDINATE EXACT LOCATION OF WALL SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN.
4. CONTROL LIGHTS VIA PHOTO CEL.
5. RE-CONNECT EXISTING LIGHT FIXTURES TO CIRCUIT 1LTG-1. ELECTRICAL CONTRACTOR TO CHECK AND RE-BALANCE THE LOAD TO AVOID OVERLOADING. INTERCEPT AND EXTEND NEW CONDUIT AND WIRES AS REQUIRED FOR COMPLETE AND WORKABLE INSTALLATION.
6. ROUTE HOMERUN VIA NEW LIGHTING CONTROL PANEL "RCP", LC&D BLUE BOX, IN MAIN ELECTRICAL ROOM. SEE LOW VOLTAGE WIRING DIAGRAM ON THIS SHEET.
7. PROVIDE LOW VOLTAGE MANUAL OVERRIDE SWITCH PER WIRING DIAGRAM AND SCHEDULE ON THIS SHEET. COORDINATE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
8. ALL WORK SHALL COMPLY WITH 2007 CALIFORNIA ENERGY CODE.

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KEYPLAN

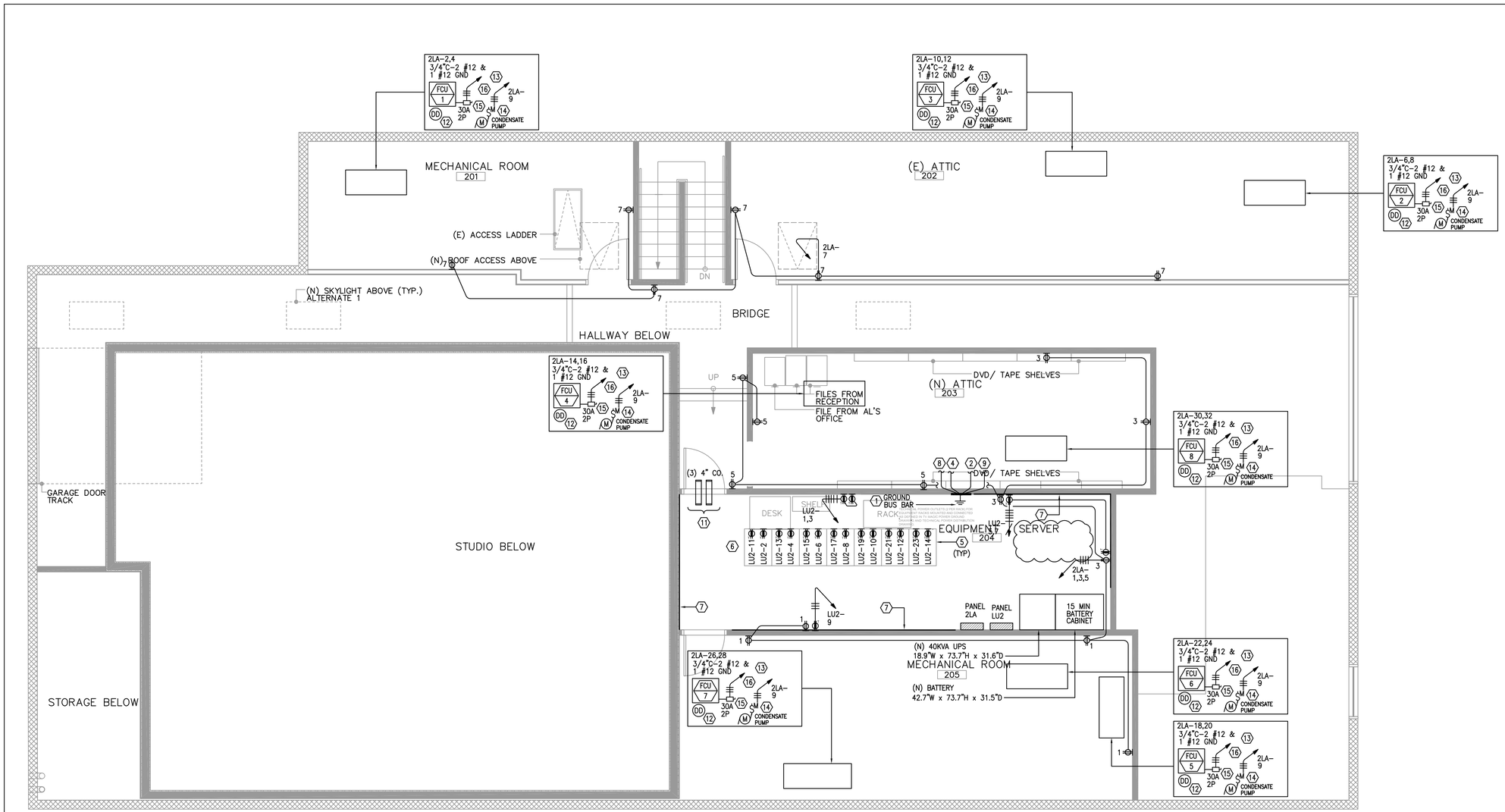
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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

1ST FLOOR ELECTRICAL LIGHTING PLAN
DRAWING

– DATE	12-805 PROJECT NO.
- DRAWN	
- REVIEWED	E2.1
1/4"=1'-0 SCALE	DRAWING NO.

STAMP



GENERAL NOTES:

1. DRAWING SHOWS DESIRED ELECTRICAL LAYOUT WITH NEW LOCATION OF RECEPTACLES, HARD WIRED JUNCTION BOX, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF DEVICES WITH OTHER SUBCONTRACTOR TO AVOID CONFLICT OF ACCESS TO THE DEVICES.
2. ALL JUNCTION BOXES SHALL BE SIZED PER NEC TABLE 370–16(a).
3. ALL PENETRATIONS INTO FIRE RATED WALL AND ALL FLOOR CORING SHALL BE FIRE SEALED X–RAYED FOR CORING. FOR ALL CONDUIT PENETRATION, SEE TYPICAL DETAIL ON ARCHITECTURAL DRAWINGS.
4. UNLESS OTHERWISE NOTED, ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTION(S) ARE NEW. SEE MECHANICAL DRAWINGS FOR ACTUAL LOCATION AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
5. NO EQUIPMENT, JUNCTION BOX, ETC. REQUIRING ACCESS SHALL BE LOCATED IN HARD CEILING AREAS (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). RELOCATE ANY EXISTING EQUIPMENT, JUNCTION BOX, ETC. TO ACCESSIBLE CEILING AREA.
6. TELE/DATA CONDUITS AND POWER CONDUITS IF RUN PARALLEL, SHALL HAVE NO LESS THAN 12" SEPARATION BETWEEN CONDUITS. ALL EXPOSED CONDUIT SHALL BE EMT AND SHALL BE RUN AS HIGH AS POSSIBLE, GROUP AND SPACED EVENLY WITH TYPICAL HANGERS.
7. FOR EQUIPMENT REQUIRING SPECIAL RECEPTACLE, PROVIDE RECEPTACLE WITH NEMA CONFIGURATION TO MATCH EQUIPMENT PLUG. VERIFY WITH EQUIPMENT MANUFACTURER.
8. PROVIDE 1/2"C FROM EACH THERMOSTAT TO RESPECTIVE FOR AC UNIT OR EXHAUST FAN. REFER TO MECHANICAL DRAWINGS EXACT LOCATIONS AND REQUIREMENTS.
9. FOR FIRE/LIFE SAFETY REQUIREMMENTS, INCLUDING BUT NOT LIMITED TO DUCT DETECTORS SHOWN ON HVAC AND FIRE PROTECTION PLANS, CONTRACTOR SHALL MAKE PROVISIONS FOR CONNECTION OF NEW DEVICES TO BUILDING FIRE LIFE/SAFETY SYSTEM AS OUTLINED ON SHEET E0.1 SERIES.
10. CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY. FIELD VERIFY EXACT EXISTING CIRCUIT NUMBERS. FOR NEW HOMERUNS USE OTHER AVAILABLE SPARE CIRCUITS IN THE PANEL FEEDING THIS AREA IF NECESSARY.
11. PROVIDE AND INSTALL #10 WIRES FOR MORE THAN 100'–0" CIRCUIT HOMERUNS.

SPECIFIC NOTES

1. PROVIDE 1/4" X 20" X 4" COPPER GROUND BAR WITH 1/4" DIAMETER HOLES AT 2" ON CENTER MOUNTED ON UNISTRUT. PROVIDE INSULATION BETWEEN GROUND BUS BAR AND UNISTRUT AND MOUNTED AT 8'–0" AFF. SEE ALSO SPECIFICATION AND GROUNDING CONNECTIONS. VERIFY EXACT LOCATION NOT TO INTERFERE OTHER UTILITES, SEE TYPICAL DETAIL.
2. PROVIDE GROUNDING TO RACKS.
3. PROVIDE AND INSTALL L5–20R DEDICATED RECEPTACLE FED VIA CABLE TRAY. VERIFY EXACT LOCATION PRIOR TO ROUGH–IN.
4. PROVIDE AND INSTALL 1 #6 COPPER GROUND BONDING BETWEEN CABLE TRAY AND LOCAL GROUND BUS.
5. EQUIPMENT RACK BY OTHERS. SEE CONSULTANTS DRAWINGS FOR MORE INFORMATION.
6. CABLE TRAY BY OTHERS. SEE CONSULTANTS DRAWINGS FOR MORE INFORMATION.
7. PROVIDE AND INSTALL 3/4" THICK X 4'–0" X 8'–0" FIRE RESISTANT PLYWOOD BACKBOARD AT 6" AFF. VERIFY EXACT LOCATION IN THE FIELD PRIOR TO ROUGH–IN.
8. PROVIDE AND INSTALL 1 #6 COPPER GROUND BONDING TO STATIC DISSIPATING VCT FLOORING.
9. PROVIDE AND INSTALL 1 #6 COPPER FROM GROUND BUS BAR TO MAIN GROUND BUS BAR IN MAIN ELECTRICAL ROOM. CONNECT BUILDING STEEL AND COLD WATER PIPE PER NEC REQUIREMENTS.
10. EACH EQUIPMENT RACK, AC UNIT, ALL OTHER EQUIPMENT WITH METAL ENCLOSURE SHALL BE BONDED TO GROUND BUS BAR WITH 1 #6 BARE COPPER GROUND.
11. PROVIDE AND INSTALL EMT CONDUIT SLEEVES (IF REQUIRED) WITH PULL WIRE, PLASTIC BUSHING AT BOTH ENDS AND CONDUIT SUPPORTS AND ACCESSORIES TO SUPPORT BACKBONE CABLES TO MEET NEC/CEC REQUIREMENTS. VERIFY EXACT ROUTING, CONDUITS QUANTITY AND EXACT LOCATION OF STUB–UP, STUB–IN, AND CONDUIT SLEEVES LOCATION WITH SYSTEM INSTALLER PRIOR TO TOUGH–IN.
12. PROVIDE DUCT DETECTORS PER MECHANICAL DRAWINGS AND INTERLOCK WITH FIRE ALARM SYSTEM TO SHUT DOWN THE UNIT UPON ACTIVATION OF SMOKE DETECTORS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
13. PROVIDE 1/2"CO TO CONTROLLING THERMOSTAT, LOCATED PER HVAC PLAN. VERIFY EXACT LOCATION PRIOR TO ROUGH–IN.
14. PROVIDE 120V 1–PHASE CONNECTION TO CONDENSATE PUMP EACH WITH MOTOR RATED TOGGLE SWITCH DISCONNECT. TEN (10) CONDENSATE PUMPS OR LESS PER CIRCUIT. COORDINATE WITH MECHANICAL FOR QUANTITY AND LOCATION PRIOR TO ROUGH–IN.
15. PROVIDE HOA (HAND/OFF AUTO) SWITCH LOCKABLE DISCONNECT. IT SHALL BE MOUNTED INDEPENDENT OF UNIT WITH ALL WORKING CLEARANCES. PROVIDE WITH LIFE SAFETY SHUTOFF CONTACT AS REQUIRED.
16. PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRES PER MANUFACTURER'S AND AS REQUIRED FOR COMPLETE AND WORKABLE INSTALLATION PER HVAC CONTROL WIRING REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH HVAC CONTRACTOR.

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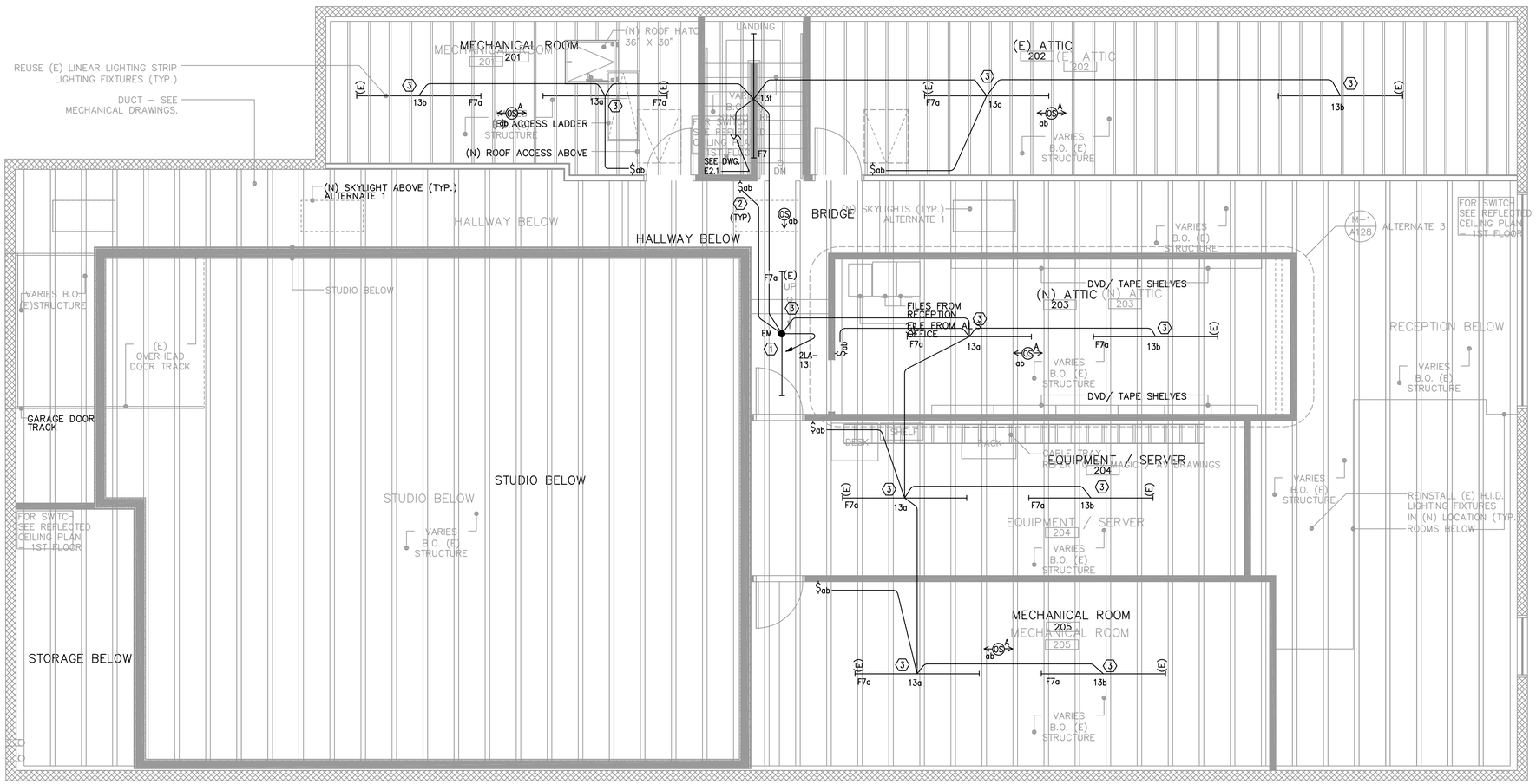
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SANTA MONICA CITY TV
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DRAWING
2ND FLOOR ELECTRICAL POWER PLAN

STAMP

– DATE	12-805 PROJECT NO.
- DRAWN	
- REVIEWED	E3.0
1/4"=1'-0 SCALE	DRAWING NO.



GENERAL NOTES:

1. ALL EXISTING JUNCTION BOXES, AND OTHER ELECTRICAL, TELE/DATA AND LIFE SAFETY DEVICES WHICH ARE IN CONFLICT WITH NEW ARCHITECTURAL OR ARE NOW LOCATED IN AN ACCESSIBLE SPACE DUE TO STRUCTURAL, HVAC OR ACOUSTICAL REVISIONS AS A RESULT FROM THIS BUILD–OUT, ARE TO BE RELOCATED TO AN ACCESSIBLE LOCATION. EXTEND CONDUIT AND WIRING REQUIRED FOR SUCH RELOCATION.
2. NO EQUIPMENT JUNCTION BOXES, ETC. REQUIRING ACCESS SHALL BE LOCATED IN HARD CEILING AREAS (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). LOCATE ANY EXISTING EQUIPMENT, JUNCTION BOXES, ETC., TO ACCESSIBLE CEILING AREAS.
3. VERIFY THE TYPE OF CEILING SYSTEM WITH GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE FIXTURES WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
4. SUPPORT CEILING MOUNTED LIGHTING FIXTURES DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, DUCTWORK OR ANY OTHER EQUIPMENT, OR SOLELY FROM THE SUSPENDED CEILING.
5. WHERE MULTIPLE SWITCHES ARE INDICATED, SWITCHES SHALL BE GANGED UNDER A COMMON WALL PLATE.
6. ALL SWITCH LOCATION SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH IN.
7. ALL EXPOSED CONDUITS SHALL BE EMT AND SHALL BE RUN 90 DEGREES PERPENDICULAR AND PARALLEL TO CEILING STRUCTURE AND HUG TO UNDERSIDE OF SLAB.
8. CONTRACTOR SHALL PROVIDE ADDITIONAL EXIT SIGN(S) IF REQUIRED BY THE CITY FIRE MARSHALL INSPECTOR AT NO ADDITIONAL COST TO THE OWNER.
9. CIRCUIT EGRESS LIGHTS AND EXIT SIGNS AHEAD OF SWITCH, WHERE CONNECTED TO A SHARED LIGHTING CIRCUIT ON AUTO OR OCCUPANCY SENSOR.
10. EXCEPT FOR EGRESS AND EXIT SIGNS, CONNECT ALL LIGHTING CIRCUITS VIA EXISTING LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL ROOM ON THIS FLOOR. PROVIDE ALL REQUIRED 277V AND 120V RELAYS. PROVIDE METAL BARRIER BETWEEN 277V AND 120V RELAYS. PROVIDE REQUIRED LOCAL OVERIDE SWITCH PER BUILDING STANDARD.
11. ALL LIGHTING FIXTURES, SWITCHES, OCCUPANCY SENSORS AND LIFE SAFETY IF ANY, INCLUDING ASSOCIATED CONDUIT AND WIRES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL ARRANGE FOR A LUTRON REPRESENTATIVE TO COME TO THE JOB SITE TO MEET WITH THE OWNER'S REPRESENTATIVES FOR RE–PROGRAMMING OF THE EXISTING LUTRON SYSTEM AND DIMMING PROGRAMMING, VERIFY EXACT OWNER SWITCHING STANDARDS PRIOR TO INSTALLATION. PROVIDE CONDUIT AND WIRES AS REQUIRED FOR COMPLETE INSTALLATION WITH OWNER'S SATISFACTION PRIOR TO INSTALLATION. ALSO, VERIFY SWITCHING SEQUENCE AND RE–USED AS REQUIRED.
13. DRAWING SHOWS CIRCUITING AND SWITCHING REQUIREMETNS AND FIXTURE TYPES ONLY, VERIFY EXACT LIGHTING FIXTURES AND STANDARD SWITCHING WITH ARCHITECT AND OWNER'S PRIOR TO INSTALLATION. ALSO VERIFY EXACT LIGHTING FIXTURES VOLTAGE AND FINISH PRIOR TO INSTALLATION.

SPECIFIC NOTES

1. ALL LIGHTING FIXTURES SHOWN WITH "EM" ARE TO BE PROVIDED WITH EMERGENCY BALLAST AND 90 MINUTES BATTERY PACK WITH EXTRA HOT WIRE FOR PROPER CHARGING.
2. COORDINATE EXACT LOCATION OF WALL SWITCHES WITH ARCHITECT PRIOR TO ROUGH–IN.
3. RE–CONNECT EXISTING LIGHT FIXTURES TO CIRCUIT 2LA–13. ELECTRICAL CONTRACTOR TO CHECK AND RE–BALANCE THE LOAD TO AVOID OVERLOADING. INTERCEPT AND EXTEND NEW CONDUIT AND WIRES AS REQUIRED FOR COMPLETE AND WORKABLE INSTALLATION.
4. ALL WORK SHALL COMPLY WITH 2007 CALIFORNIA ENERGY CODE.

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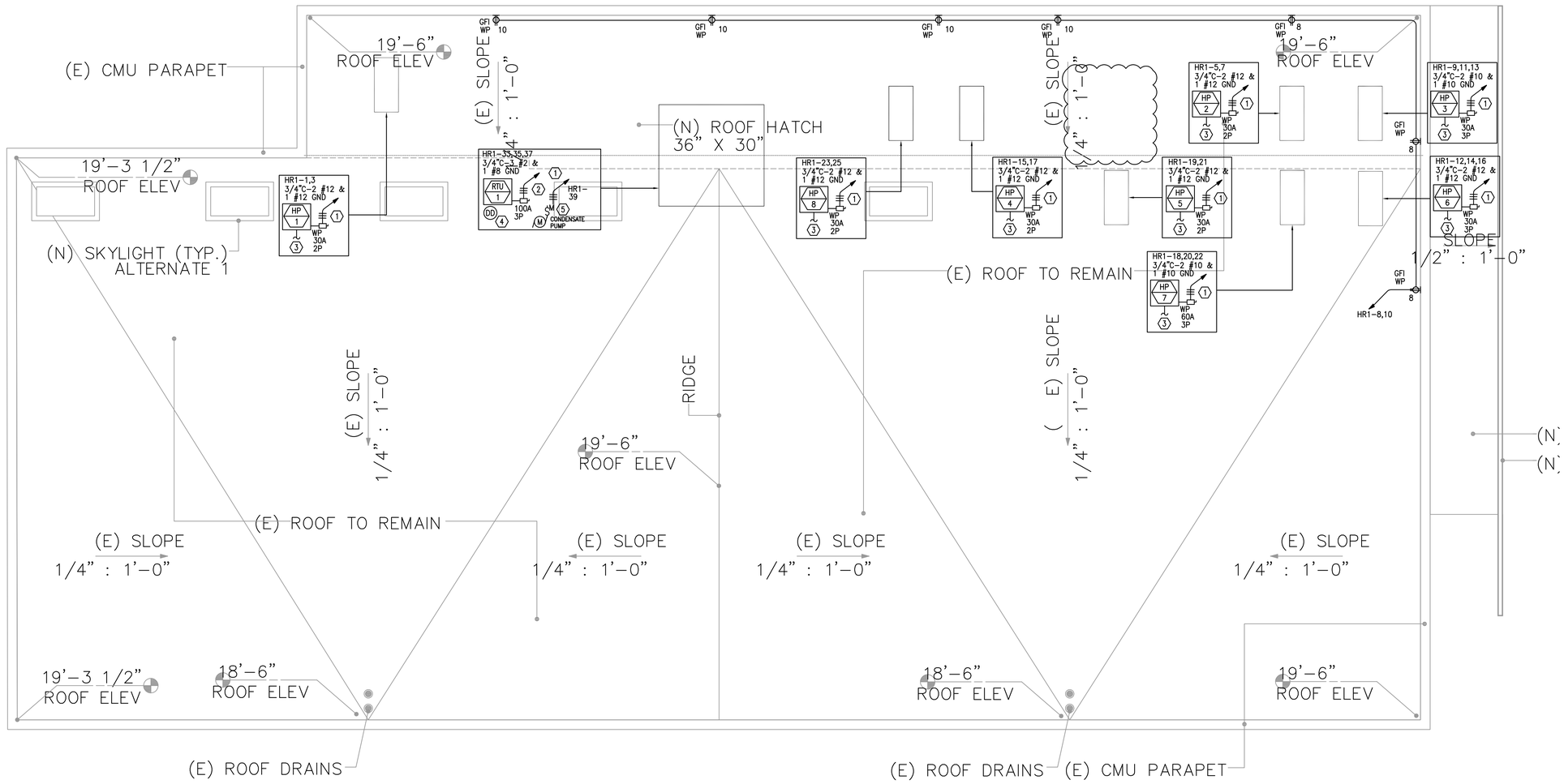
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DRAWING
2ND FLOOR ELECTRICAL LIGHTING PLAN

STAMP	– DATE	12-805 PROJECT NO.
	- DRAWN	E3.1
	- REVIEWED	
	1/4"=1'-0 SCALE	DRAWING NO.



GENERAL NOTES:

1. DRAWING SHOWS FINAL DESIRED ELECTRICAL LAYOUT WITH NEW LOCATION OF RECEPTACLES, OUTLETS, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ELECTRICAL DEVICES WITH OTHER SUBCONTRACTORS TO AVOID CONFLICT OF ACCESS TO THE DEVICES.
2. PROVIDE FIRE SEALANTS TO ALL CORE DRILLED FLOORS OR WALL CONDUIT PENETRATIONS.
3. ALL JUNCTION BOXES SHALL BE SIZED PER NEC TABLE 314-16a.
4. FOR EXACT LOCATION OF NEW MECHANICAL EQUIPMENT, REFER TO HVAC PLANS.
5. FROM EACH NEW HVACUNIT, PROVIDE 1/2" CONDUIT AND EXTEND TO CONTROLLING THERMOSTAT, PROVIDED AND LOCATED PER HVAC PLANS.
6. FOR FIRE/LIFE SAFETY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO DUCT DETECTORS SHOWN ON HVAC AND FIRE PROTECTION PLANS, CONTRACTOR SHALL MAKE PROVISIONS FOR CONNECTION OF NEW DEVICES TO BUILDING FIRE LIFE/SAFETY SYSTEM.
7. ALL OUTLETS SHALL HAVE A PERMANENT LABEL SHOWING PANEL AND BRANCH CIRCUIT.

SPECIFIC NOTES

1. PROVIDE 1/2"CO TO CONTROLLING THERMOSTAT, LOCATED PER HVAC PLAN. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
2. PROVIDE AND INSTALL WEATHERPROOF, NEMA-3R ENCLOSURE MOTOR RATED DISCONNECT SWITCH, INDEPENDENT OF UNIT INSTALLED WITH ALL WORKING CLEARANCES. SEE VENDOR EQUIPMENT SCHEDULE FOR RECOMMENDATION PRIOR TO ORDERING.
3. PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRES PER MANUFACTURER'S AND AS REQUIRED FOR COMPLETE AND WORKABLE INSTALLATION PER HVAC CONTROL WIRING REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH HVAC CONTRACTOR.
4. PROVIDE DUCT DETECTORS PER MECHANICAL DRAWINGS AND INTERLOCK WITH FIRE ALARM SYSTEM TO SHUT DOWN THE UNIT UPON ACTIVATION OF SMOKE DETECTORS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
5. PROVIDE 120V 1-PHASE CONNECTION TO CONDENSATE PUMP EACH WITH MOTOR RATED TOGGLE SWITCH DISCONNECT. TEN (10) CONDENSATE PUMPS OR LESS PER CIRCUIT. COORDINATE WITH MECHANICAL FOR QUANTITY AND LOCATION PRIOR TO ROUGH-IN.

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NO.	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	30% CD	BG	04.27.09	5	PC-COMMENTS		10.07.09
2	OWNER REVIEW		05.28.09	6	PC-RESUBMIT		05.28.10
3	PERMIT ISSUE		06.04.09	7	ISSUE FOR CONSTRUCTION		08.30.10
4	PC-RESUBMIT		08.31.09				

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1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

ROOF PLAN
DRAWING

STAMP

– DATE	12-805 PROJECT NO.
- DRAWN	
- REVIEWED	E4.0
1/4"=1'-0 SCALE	DRAWING NO.

SYMBOLS

- WASTE (W)
- SANITARY PIPING (SAN)
- STORM DRAIN (SD)
- OVERFLOW DRAIN (OD)
- CONDENSATE DRAIN (CD)
- INDIRECT WASTE (IW)
- NATURAL GAS (LOW PRESSURE)
- VENT (V)
- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HWR)
- DOMESTIC HOT WATER RETURN (HW)
- FIRE PIPE
- SPRINKLER PIPE
- SPRINKLER RISER ASSEMBLY
- SHUTOFF VALVE (SOV)
- PRESSURE REDUCING VALVE (PRV)
- CHECK VALVE
- BALANCING VALVE (BV)
- SOLENOID VALVE (SV)
- GAS PRESSURE REGULATING VALVE (GRV)
- GAS COCK (GC)
- REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
- PIPE–UP UNLESS OTHERWISE NOTED
- PIPE DROP UNLESS OTHERWISE NOTED
- DROP OR RISE
- TOP CONNECTION
- BOTTOM CONNECTION
- CLEANOUT (PIPING AT CLG) (CO)
- CLEANOUT (BURIED PIPING) (CO)
- TRAP
- FLOOR DRAIN, ROOF DRAIN, OVERFLOW DRAIN (FD, RD, OD)
- FLOOR SINK (FS)
- WALL HYDRANT (WH)
- VALVE AND CAPPED OUTLET
- TRAP PRIMER (TP)
- STRAINER
- VENT THROUGH ROOF (VTR)
- UNION
- WATER FLOW SWITCH (WFS)
- DIAMETER (DIA)
- POINT OF CONNECTION (P.O.C.)
- SYSTEM RISER DESIGNATION
- DETAIL DESIGNATION
- EQUIPMENT DESIGNATION

ABBREVIATIONS

— A —	
ABV	ABOVE
ACC DR	ACCESS DOOR
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AS	AUTOMATIC FIRE SPRINKLER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ALARM PANEL
— B —	
BLW	BELOW
BTUH	BRITISH THERMAL UNITS PER HOUR
— C —	
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CP	CIRCULATING PUMP
CV	CHECK VALVE
CONN	CONNECT, CONNECTION
COORD	COORDINATE
CW	COLD WATER
CU FT	CUBIC FEET
— D —	
DCV	DETECTOR CHECK VALVE
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DN	DOWN
DR	DRAIN
DWG	DRAWING
— E —	
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ESH	EMERGENCY SHOWER
EW	EMERGENCY EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
— F —	
F	FIRE
FS	FLOOR SINK
FD	FLOOR DRAIN
FF EL	FINISHED FLOOR ELEVATION
FLR	FLOOR
FM	FACTORY MUTUAL
FT	FOOT, FEET
FU	FIXTURE UNIT
FUD	FUNNEL DRAIN
F.P.	FIRE PROTECTION
— G —	
G	GAS
GAL	GALLON
G.C.	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
— H —	
HDC	HANDICAPPED
HP	HORSEPOWER
HTR	HEATER
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
— I —	
IE	INVERT ELEVATION
IN	INCH
ICW	INDUSTRIAL COLD WATER
— J —	
JC	JANITORS CLOSET
— K —	
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATT
— L —	
LAV	LAVATORY
— M —	
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MPG	MEDIUM PRESSURE GAS
— N —	
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN PLUMBING CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
— O —	
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
OD	OVER FLOW DRAIN
— P —	
PA	PRE–ACTION
PFP	PLUMBING & FIRE PROTECTION
PLBG	PLUMBING
PO	PLUGGED OUTLET
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PRES	PRESSURE
— R —	
RCV	RISER CONTROL VALVE
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
ROOF	ROOF DRAIN
RR	ROOF RECEPTOR
— S —	
SA	SANITARY
SK	SINK
SPEC	SPECIFICATION
SQ.FT	SQUARE FEET
SD	STORM DRAIN
SP, SPRK.	SPRINKLER
SS	SERVICE SINK
— T —	
TS	TAMPER SWITCH
TYP	TYPICAL
— U —	
UL	UNDERWRITER'S LABORATORY
UR	URINAL
USSG	UNITED STATES STANDARD GAUGE
— V —	
V	VENT
VERT	VERTICAL
VTR	VENT THRU ROOF
VO	VALVED OUTLET
— W —	
W	WASTE
WC	WATER CLOSET
WH	WALL HYDRANT
WM	WATER METER
WT	WEIGHT

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LOCAL CODES, 2007 STATE OF CALIFORNIA, TITLE 24 AND ALL OTHER GOVERNING CODES AND ORDINANCES.
2. 8x11 PROJECT MANUALS, INCLUDING SPECIFICATIONS, EQUIPMENT, FIXTURES AND BUILDING STANDARDS SHALL BE A PART OF THIS WORK.
3. ALL VALVES AND WATER HAMMER ARRESTORS LOCATED ABOVE GYPSUM BOARD CEILINGS OR BEHIND WALLS SHALL BE PROVIDED WITH ACCESS PANEL.
4. ALL PIPE PENETRATIONS THROUGH FIRE–RATED WALLS SHALL BE PROVIDED WITH SLEEVES AND FIRE RESISTANT CAULKING.
5. ALL SYMBOLS SHOWN ON THE SYMBOL LIST ARE NOT NECESSARILY USED IN THIS PROJECT.
6. WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND THE PROJECT MANUAL OR BUILDING STANDARD SPECIFICATIONS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
7. THE WORK OF THIS PROJECT INVOLVES ALTERATION OF THE BASE BUILDING (PFP) SYSTEMS TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE ARCHITECTURAL DRAWINGS SHOW THE EXACT SCOPE OF WORK FOR THIS PROJECT.
8. THESE DRAWINGS INDICATE THE DESIGN INTENT REQUIREMENTS FOR THE (PFP) SYSTEMS, AND EQUIPMENT. DUE TO STRUCTURAL CONDITIONS, ELECTRICAL WIRING OR PIPING INTERFERENCE, OR FOR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN TO ACCOMMODATE EXISTING FIELD CONDITIONS.
9. DURING BID, THE CONTRACTOR SHALL EXAMINE THE COMPLETE SET OF DRAWINGS FOR ALL TRADES, AS ISSUED BY THE ARCHITECT AND REVIEW DIMENSIONS SPACE REQUIREMENTS AND POINT OF CONNECTIONS TO ALL EQUIPMENT. MAKE ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER TRADES.
10. UNLESS INSTRUCTED OTHERWISE, THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND FEES REQUIRED FOR INSTALLATION OF THE (PFP) WORK, INCLUDING THE LOCAL BUILDING DEPARTMENT, DEPARTMENT OF WATER AND POWER, SOUTHERN CALIFORNIA GAS CO. AND ALL OTHER AGENCIES HAVING JURISDICTION OVER SERVICES TO THIS SITE AND THE BUILDINGS. FURNISH FINAL CERTIFICATE OF INSPECTION OR WRITTEN EVIDENCE OF ACCEPTANCE BY INSPECTION AUTHORITIES FOR ALL WORK INSTALLED.
11. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF NEW CONSTRUCTION, AND EXACT LOCATION OF FIXTURES, EQUIPMENT, DEVICES , ETC.
12. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ENSURE AN UNDERSTANDING OF THE COMPLETE SCOPE OF PROJECT PRIOR TO START OF WORK.
13. BEFORE SUBMITTING PROPOSALS FOR THIS WORK, EACH BIDDER SHALL BECOME FAMILIAR WITH DRAWINGS AND SHALL HAVE EXAMINED THE PREMISES AND BE AWARE OF ALL EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS CONTRACT. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY EXTRA COMPENSATION FOR FAILURE TO ALLOW FOR ALL EXISTING CONDITIONS. SUBMITTING OF A BID OR PROPOSAL WILL BE CONSIDERED EVIDENCE OF THE FACT THAT CONTRACTOR IS FULLY AWARE OF THESE CONDITIONS AND IS ABLE TO COMPLETE ALL WORK REQUIRED BY THE DRAWINGS.
14. CONTRACTOR SHALL PROVIDE COMPLETE AS–BUILT DRAWINGS PRIOR TO COMPLETION OF PROJECT FOR REVIEW BY THE ARCHITECT/ENGINEER. PROVIDE AS–BUILT DRAWINGS VIA ELECTRONIC FORMAT (ON CD OR VIA E–MAIL) IN AUTOCAD 2002.
15. IF ANY EQUIPMENT SUBMITTED BY THE CONTRACTOR IS DIFFERENT FROM THAT SPECIFIED, OR REQUIRES CHANGES IN MATERIAL OR LABOR FROM THAT REQUIRED IN THE CONTRACT DOCUMENTS AFFECTING THIS AND/OR OTHER TRADES, SUCH CHANGES SHALL BE SUBMITTED AS SHOP DRAWINGS. SUBMITTAL SHALL INDICATE CREDIT DUE TO OWNER, IF ANY, BECAUSE OF THE CHANGES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES RESULTING FROM ADDITIONS OR CHANGES IN THE WORK OF OTHER TRADES NECESSARY TO ACCOMMODATE THE REQUESTED MODIFICATION. ALL CHANGES SHALL BE SHOWN ON RECORD AND AS–BUILT DRAWINGS.
16. SUBMIT SHOP DRAWINGS AND PRODUCT DATA ACCORDING TO SPECIFICATIONS.

FIRE PROTECTION NOTES

1. ALL FIRE PROTECTION WORK SHALL BE "DESIGN–BUILT" BY THE CONTRACTOR AND HYDRAULICALLY CALCULATED IN ACCORDANCE WITH THE LOCAL BUILDING CODES, FIRE CODES, NFPA 13, NFPA 14, 101 AND ALL AUTHORITIES HAVING JURISDICTION. INSTALLATION OF THE NEW FIRE SPRINKLER SYSTEM AND MODIFICATIONS TO THE EXISTING SYSTEM SHALL BE ON A SEPARATE PERMIT BY A LICENSED CONTRACTOR. PROVIDE CERTIFICATION INSTALLATION OF THE NEW FIRE ALARM SYSTEM SHALL BE ON A SEPARATE PERMIT BY A LICENSED CONTRACTOR. COORDINATE WITH DIVISION 16.
2. CONTRACTOR SHALL PROVIDE FULL COVERAGE FOR THE ENTIRE SPACE IN ACCORDANCE WITH NFPA–13 STANDARDS AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
3. ALL PIPING SHALL BE SCHEDULE 40 WITH FITTINGS, SUPPORTS, BRACING, SEISMIC RESTRAINTS, ETC. PER NFPA–13 STANDARDS.
4. THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
5. REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION OF SPRINKLER HEADS AND PIPE PENETRATIONS THROUGH ACOUSTICAL WALLS, FULL HEIGHT WALLS AND FIRE RATED WALLS.
6. RUN ALL PIPES AS HIGH AS POSSIBLE TIGHT TO STRUCTURE AND COORDINATE ROUTING WITH HVAC DUCTWORK AND ALL OTHER TRADES.
7. SPRINKLER PIPING SHALL BE CONCEALED ABOVE FINISHED CEILINGS AND EXPOSED IN AREAS WITHOUT FINISHED CEILING. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
8. THE INSTALLATION OF SEISMIC BRACING FOR THE FIRE SPRINKLER SYSTEM SHALL BE SUBJECT TO THE APPROVAL OF THE FIRE MARSHALL FIELD INSPECTOR.
9. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES AND COORDINATE SPRINKLER HEAD LOCATIONS AND PIPING WITH LIGHTING FIXTURES, SPEAKERS AND DIFFUSERS, HVAC DUCTWORK, ETC. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PARTITIONS, SUSPENDED CEILINGS, SOFFITS AND ILLUMINOUS CEILINGS. SPRINKLER HEADS SHALL BE INSTALLED AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS.
10. THE CHIEF ENGINEER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF THE BUILDING ENGINEERING STAFF TIME, AT THE PREVAILING RATE REQUIRED TO WORK ON CONSTRUCTION RELATED PROBLEMS.
11. SPRINKLER HEADS LOCATED IN ACOUSTICAL TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TITLE.
12. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
13. SPRINKLER DRAINS SHALL BE DRAINED INTO APPROVED RECEPTORS.
14. SPRINKLER HEADS SHALL BE UL LISTED. PROVIDE QUICK–RESPONSE TYPE SPRINKLERS IF REQUIRED.
15. SPRINKLER HEADS LOCATED IN ACOUSTICAL TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILE.
    (A) GYPSUM BOARD AND TILE CEILING AREAS: SUPPLY AND INSTALL BUILDING STANDARD CONCEALED HEADS WITH FACTORY FINISHED COVER PLATE TO MATCH ADJACENT CEILING SURFACE FINISH PAINT; ARCHITECT TO SELECT FINISH.
    (B) EXPOSED AREAS WITHOUT CEILINGS: SUPPLY AND INSTALL BUILDING STANDARD HEADS, UPRIGHT AND/OR PENDANT HEADS; ARCHITECT TO SELECT FINISH.
    (C) CONTRACTOR SHALL PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS (175°F TO 225°F) IN ALL MACHINE ROOMS AND MECHANICAL ROOMS.
16. CONTRACTOR SHALL DESIGN AND INSTALL THE SPRINKLER SYSTEM TO PROVIDE FULL COVERAGE OVER THE ENTIRE BUILDING. THE SYSTEM SHALL BE DESIGNED AND INSTALLED IN STRICT ACCORDANCE WITH NFPA–13, NFPA–72 AND NFPA–75 STANDARDS, THE LOCAL CODES AND FIRE DEPARTMENT REQUIREMENTS.
17. FIRE PROTECTION PENETRATING FIRE RATED AND ACOUSTICAL WALLS SHALL BE PROVIDED WITH STEEL SLEEVES AND CAULKED WITH SEALANT MATERIAL OF THE SAME FIRE RATING OF THE WALL. 3M FIRE BARRIER CALIFORNIA STATE FIRE MARSHALL.
18. CONTRACTOR SHALL SUBMIT FULL HYDRAULIC CALCULATIONS AND DRAWINGS TO THE ARCHITECT FOR REVIEW. CALCULATION AND DRAWINGS SHALL HAVE STAMP OF APPROVAL BY THE FIRE DEPARTMENT AND AUTHORITIES HAVING JURISDICTION.
19. CONTRACTOR SHALL PREPARE COORDINATED SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO INSTALLATION.

PLUMBING NOTES

1. ALL WORK SHALL COMPLY WITH THE 2007 CALIFORNIA PLUMBING CODE, AND THE LOCAL MUNICIPAL CODE.
2. PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH–INS AND ALL UTILITY PIPING.
3. PLUMBING CONTRACTOR SHALL PROVIDE ROUGH–INS, EXTEND ALL PIPING (WASTE, VENT, COLD WATER, HOT WATER, ETC.) TO ALL FIXTURES AND APPLIANCES AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES.
5. RUN ALL PLUMBING PIPES AS HIGH AS POSSIBLE TO STRUCTURE AND COORDINATE ROUTING WITH OTHER TRADES.
6. ALL WATER SHUT–OFF VALVES SHALL BE BALL TYPE VALVES.
7. KEEP ALL PIPING CLEAR FROM LOAD BEARING FOOTINGS.
8. ALL PIPE PENETRATIONS THROUGH STRUCTURAL MEMBERS AND WALLS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
9. DURING CONSTRUCTION, PROVIDE MECHANICAL PLUGS IN OPEN DRAINS TO PREVENT DAMAGE TO LOWER FLOORS. ALL WATER PIPING LOCATED ABOVE CEILING, REQUIRING TEMPORARY OR PERMANENT CAPPED CONNECTIONS, SHALL BE PROVIDED WITH LINE–SIZE SHUT–OFF VALVES.
10. ALL CLEANOUTS SHALL BE ACCESSIBLE AND INSTALLED PER STATE OF CALIFORNIA PLUMBING CODE/UPC SECTION 707 & 719.
11. PROVIDE AND INSTALL ACCESSIBLE WATER HAMMER ARRESTERS OF REQUIRED SIZE AND LOCATION. MANUFACTURER AND MODEL NUMBERS SHALL BE PER SPECIFICATIONS.
12. PROVIDE ACCESS PANELS IN WALLS FOR SHUT–OFF VALVES, TRAP PRIMERS AND WATER HAMMER ARRESTERS. CONTRACTOR IS ADVISED THAT ITEMS REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE THE AREAS OF GYPSUM BOARD CEILING WITHOUT CONSENT OF ARCHITECT. SUBMIT PROPOSED ACCESS PANEL LOCATIONS TO ARCHITECT FOR APPROVAL.
13. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH CODE–APPROVED ACCESSIBLE TRAP PRIMERS.
14. ALL WATER FAUCETS SHALL BE PROVIDED WITH CODE–APPROVED FLOW RESTRICTORS.
15. ALL VENTS THROUGH ROOF SHALL BE MINIMUM OF THREE FEET VERTICALLY OR TEN FEET HORIZONTALLY FROM AIR CONDITIONING EQUIPMENT FRESH AIR INTAKES, WINDOWS, DOORS OR OTHER OPENINGS.
16. SLOPE OF SANITARY SEWER PIPES SHALL NOT BE LESS THAN 2% UNLESS OTHERWISE INDICATED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
17. PROVIDE AND INSTALL CHROME PLATED ANGLE STOPS AT ALL FIXTURES.
18. INSULATE ALL CONDENSATE AND WASTE PIPING RECEIVING CONDENSATE DRAIN INCLUDING THE DRAIN BODY.
19. ALL PIPING TO BE SEISMICALLY BRACED TO PREVENT SWAYING PER STATE OF CALIFORNIA BUILDING CODE.
20. PROVIDE SNAP–ON TYPE APPROVED INSULATION ON TRAPS AND HOT WATER PIPING FOR SINKS, LAVATORIES AND OTHER A.D.A. ACCESSIBLE FIXTURES.
21. ALL HOSE BIBBS AND JANITORIAL SERVICE SINKS SHALL BE EQUIPPED WITH APPROVED, PROPERLY INSTALLED ATMOSPHERIC TYPE VACUUM BREAKERS. DEVICES SHALL BE ACCESSIBLE FOR TEST AND MAINTENANCE.
22. ROUGH–INS, CONNECTIONS AND TERMINATION OF PLUMBING WORK SHALL BE SEQUENCED IN COORDINATION WITH THE PROJECT SCHEDULE AND THE OWNERS OTHER CONTRACTORS AND VENDORS.
23. A MINIMUM 1/2" CLEARANCE SHALL BE PROVIDED AROUND PIPES AT ALL PENETRATIONS THROUGH WALLS AND ROOF. THE GAP SHALL BE PACKED TIGHTLY WITH LOOSE, LIGHTWEIGHT INSULATION THROUGH NON RATED WALLS, AND APPROVED U.L. LISTED FIRE SAFING MATERIAL RATED WALLS TO MATCH WALL RATING.
24. COORDINATE PLUMBING SITE SERVICES OUTSIDE THE BUILDING WITH THE CIVIL ENGINEER.
25. CONTRACTOR TO PROVIDE ISOLATION VALVE IN ALL TRAP PRIMER SUPPLY LINE.
26. CONTRACTOR TO INSTALL WALL CLEANOUTS BEHIND ACCESS PANELS.
27. STORM WATER SYSTEM SHALL BE DESIGNED BASED ON 3"/HR RAINFALL.
28. PROVIDE CITY OF SANTA MONICA REQUIRED AND APPROVED RETENTION DRY WELLS FOR STORM WATER RUN–OFF.

ENERGY COMMISSION NOTES (CALIFORNIA)

1. DOMESTIC WATER HEATERS SHALL BE CERTIFIED AND LISTED BY THE CALIFORNIA ENERGY COMMISSION.
2. ALL HOT WATER SUPPLY PIPING SHALL BE INSULATED PER ENERGY CODE. INSULATE ALL FITTINGS, VALVES, STRAINERS, ETC., BY EITHER PREFABRICATION OR BY FABRICATING FITTINGS FROM METERED SEGMENTS OF PIPE INSULATION TO AN EQUAL THICKNESS OF ADJOINING PIPE INSULATION.
3. SERVICE WATER HEATING SYSTEM SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTING.
4. LAVATORY FAUCETS AND SINKS (NOT INCLUDING SERVICE SINK FAUCETS) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARD.
5. LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH OUTLET DEVICES THAT LIMIT THE FLOW OF WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE OR WITH SELF CLOSING FAUCETS THAT LIMIT DELIVERY TO A MINIMUM OF 0.25 GALLONS PER MINUTE OF HOT WATER FOR RECIRCULATING SYSTEMS AND TO A MAXIMUM OF 0.5 GALLONS FOR NON–RECIRCULATING SYSTEMS AND SHALL BE EQUIPPED WITH DEVICES THAT LIMIT THE OUTLET TEMPERATURE TO A MAXIMUM OF 110°F.
6. ALL PLUMBING FIXTURES SHALL BE LOW FLOW TYPE AND APPROVED BY THE ENERGY CONSERVATION STANDARDS.

DRAWING LIST

SHEET NO.	SHEET TITLE	SCALE
P0.1	PLUMBING SYMBOLS, ABBREVIATION, & GENERAL NOTES	NONE
P0.2	PLUMBING SCHEDULES AND DETAILS	NONE
P0.3	PLUMBING DETAILS	NONE
P1.0	PLUMBING SITE PLAN	1/8"=1'–0"
P2.0	1ST FLOOR PLUMBING PLAN	1/4"=1'–0"
P3.0	2ND FLOOR PLUMBING PLAN	1/4"=1'–0"
P4.0	PLUMBING ROOF PLAN	1/4"=1'–0"

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DRAWING
PLUMBING SYMBOLS, ABBREVIATION & NOTES

STAMP

– DATE	12–805 PROJECT NO.
– DRAWN	
– REVIEWED	
NONE SCALE	P0.1 DRAWING NO.

ELECTRIC WATER HEATER SCHEDULE

MARK	DESCRIPTION	RECOV (GPM) 60° RISE	TEMP IN (F)	TEMP OUT (F)	KW	VOLT	PHASE	LOCATION	MANUFACTURER AND MODEL NO.	REMARKS
EWH 1	STORAGE TANK TYPE	61	60	110	9.0	208	3	MECH. ROOM	A.O. SMITH DEN -40	SIMULTANEOUS DUAL ELEMENTS 4500 WATTS PER ELEMENT

EXPANSION TANK SCHEDULE

SYMBOL	EQUIPMENT	SERVICE	MANUFACTURE MODEL	QTY	STORAGE CAP.	TANK SIZE DIA.	TANK SIZE HEIGHT	LOCATION (ROOM #)	OPER. WEIGHTS (LBS.)	EMERGENCY POWER	REMARKS
ET 1	POTABLE WATER EXPANSION TANK	FOR WH-1	WATTS - DETA-5	1	3.5	-	-	2ND FLOOR MECHANICAL ROOM	50	-	SYSTEM CONNECTION - 3/4"

FIRE PROTECTION HYDRAULIC CRITERIA

LOCATION	OCCUPANCY CLASSIFICATION	DENSITY (GPM/SQ.FT)	DESIGN AREA (SQ.FT)	MAX AREA PER SPRINKLER (SQ.FT)	REMARKS
OFFICE	LIGHT	.10	1500	225	EXIST. SYSTEM TO BE REWORKED AS REQUIRED
RESTROOM	LIGHT	.10	1500	225	EXIST. SYSTEM TO BE REWORKED AS REQUIRED
MECHANICAL ROOM	ORDINARY, GROUP 2	.18	1500	130	EXIST. SYSTEM TO BE REWORKED AS REQUIRED
ELECTRIAL ROOM	ORDINARY, GROUP 2	.18	1500	130	EXIST. SYSTEM TO BE REWORKED AS REQUIRED
UNASSIGNED AREAS / ALL EQUIPMENT ROOMS	ORDINARY, GROUP 2	.18	1500	130	STORAGE HEIGHT LESS THAN 12' FEET EXIST. SYSTEM TO BE REWORKED AS REQUIRED

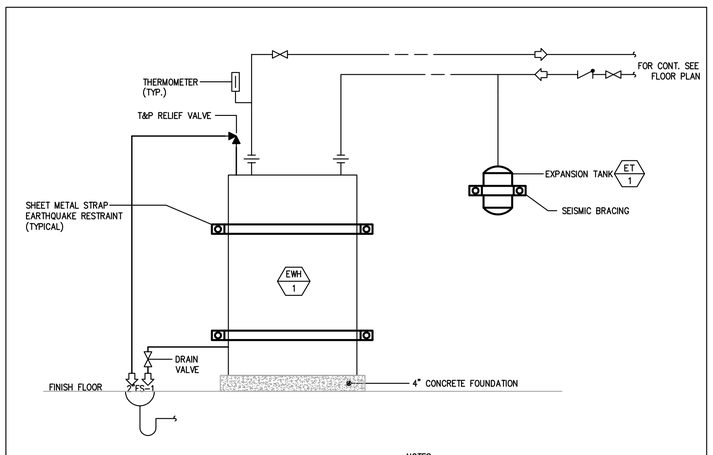
NOTE: ALL CLASSIFICATION SHALL COMPLY WITH NFPA-13 AND CITY OF SANTA MONICA PLUMBING CODES.

PLUMBING FIXTURE SCHEDULE

MARK NO.	DESCRIPTION	LOCATION	MIN. ROUGH-IN CONN. (IN) W	V	CW	HW	TW	FU SAN	FU WATER	REMARKS
WC-1	WATER CLOSET	MEN'S AND WOMEN'S ROOM	4	2	1 1/2"	---	---	3	5	KOHLER - HIGHCLIFF, K-4368, WHITE SLOAN DUAL FLUSH VALVE WES-111
WC-2	WATER CLOSET ADA COMPLIANT	MEN'S AND WOMEN'S ROOM	4	2	1 1/2"	---	---	3	5	KOHLER - HIGHCLIFF, K-4368, WHITE SLOAN DUAL FLUSH VALVE WES-111
UR-1	URINAL ADA COMPLIANT	MEN'S ROOM	2	2	1"	---	---	2	3	TOTO-RELIANCE, UT104E SLOAN 0.5GPF LOW CONSUMPTION
L-1	LAVATORY ADA COMPLIANT	MEN'S AND WOMEN'S ROOM	2	2	3/4	---	---	1	1	~~OLYMPIA-VESNA, WHITE~~ WALL MOUNT - FAUCET-DORNBRACHT META.02 33 501 625
SK-1	BAR SINK ADA COMPLIANT	PANTRY RM.	2	2	3/4	3/4	---	2	2	ELKAY LRAD 3322 (ADA) DOUBLE BOWL FAUCET: DANZE D40050 58SS (ADA) SINGLE HANDLE FAUCET PROVIDE SUPPLY & P-TRAP, DRAIN
GD-1	GARBAGE DISPOSER	REEFR TO PLANS	---	---	---	---	---	---	---	IN-SINK-ERATOR 77SS, 3/4 HP/120V/1ø. COORDINATE ELECTRICAL WITH DIVISION 16.
CM-1	COFFEE MAKER	REEFR TO PLANS	---	---	1/4" FW	---	---	---	---	EQUIPMENT BY TENANT, PROVIDE FILTERED WATER, DRAIN AS REQUIRED.
WF-1	WATER FILTER	REEFR TO PLANS	---	---	1/2"	---	---	---	---	EVERPURE QC-71-MH OR EQUAL
REF	REFRIGERATOR	REEFR TO PLANS	---	---	3/8" FW	---	---	---	---	BUILT-IN ICE MAKER, FILTERD WATER SPECIFIED BY ARCH.
WHA-1	WATER HAMMER ARRESTOR	REEFR TO PLANS	---	---	LINE SIZED	---	---	---	---	PRECISION PLUMBING PRODUCTS (PPP) W/ ACCESS PANEL
FD-1	FLOOR DRAIN	SEE PLANS	2	2	---	---	---	2	---	ZURN MODEL NO. SERIES Z415 WITH TRAP PRIMER CONNECTION.
TP-1	TRAP PRIMER	MEN'S/WOMEN'S ROOM	---	---	1/2	---	---	---	---	PLUMBING PRECISION PRODUCT FOR ONE FLOOR DRAIN

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPECIFICATIONS AND LOCATIONS OF ALL APPLIANCES, PLUMBING FIXTURES AND FAUCETS. WHERE THERE IS A DISCREPANCY BETWEEN THE ENGINEERING AND ARCHITECTURAL DRAWINGS OF APPLIANCES AND FIXTURE SPECIFICATIONS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
2. ALL FIXTURES AND APPLIANCES SHALL BE APPROVED BY THE CITY OF SANTA MONICA, CA.
3. PLUMBING CONTRACTOR TO COORDINATE NUMBER OF REQUIRED HOLES FOR ALL SINKS BASED ON EQUIPMENT/ACCESSORIES SPECIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. LIMIT LAVATORY HOT WATER DISCHARGE TO 110° F.
5. ALL FIXTURES, DEVICES, PIPING & MATERIALS INCLUDING SOLDER, FLUX, ETC. THAT CONTACT OR SUPPLY THE POTABLE WATER SYSTEM SHALL MEET THE LEAD-FREE REQUIREMENTS OF CALIF. AB-1953.

EQUIPMENT AND FIXTURE SCHEDULES



NOTES:
1. PROVIDE REMOTE TYPE THERMOMETERS IF MOUNTED HIGHER THAN 6 FT. ABOVE FLOOR.
2. INSTALL THERMOMETERS AND AQUASTATS IN OVERSIZED TEES.

WATER HEATER (STORAGE TANK) DETAIL 1

DETAILS

PIPE MATERIAL TABLE

SERVICE	PIPE	FITTINGS	REMARKS
DOMESTIC WATER SYSTEM 4" & SMALLER	SEAMLESS COPPER TUBING, TYPE L, DRAWN TEMPER, ASTM B88	WROUGHT COPPER, SOLDER-JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16.23, ANSI B16.18	JOINTS: 95-5 (TIN AND ANTIMONY) SOLDER AND/OR PULLED TEES OR BRAZED. ALL EXPOSED WATER PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED.
SOIL, WASTE AND VENT 2" & LARGER	STANDARD WEIGHT CAST IRON NO-HUB TYPE SOIL PIPE	STANDARD WEIGHT CAST IRON NO-HUB TYPE SOIL FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL BANDS AND SHIELD, NO-HUB COUPLINGS	
SOIL, WASTE AND VENT 11/2" & SMALLER	SEAMLESS COPPER TUBING, TYPE M, DRAWN TEMPER, ASTM B88 OR SCHEDULE 40 GALVANIZED STEEL	WROUGHT COPPER, SOLDER-JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16.23, ANSI B16.18 OR SCREWED JOINT FOR GALVANIZED PIPE	JOINTS: 95-5 (TIN AND ANTIMONY) SOLDER
INDIRECT DRAINAGE	SEAMLESS COPPER TUBING, TYPE M, DRAWN TEMPER, ASTM B88	WROUGHT COPPER, SOLDER-JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16.23, ANSI B16.18	JOINTS: 95-5 (TIN AND ANTIMONY) SOLDER.
FIRE PROTECTION	STANDARD WEIGHT SCHEDULE 40 BLACK STEEL	STANDARD WEIGHT 150 LBS. W.O.G. MALLEABLE IRON, THREADED FITTINGS	PER NFPA-13 STANDARDS
NATURAL GAS	STANDARD WEIGHT SCHEDULE 40 BLACK STEEL	STANDARD WEIGHT 150 LBS. W.O.G. MALLEABLE IRON, THREADED FITTINGS	PER NFPA-54 STANDARDS

NOTES:
1. ALL PIPES AND FITTINGS SHALL BE LISTED FOR IT'S INTENDED USE AND SHALL COMPLY WITH UPC AND THE REQUIREMENTS OF THE CITY OF SANTA MONICA
2. FOR ADDITIONAL REQUIREMENTS REFER TO 8-1/2" x 11 BOOK SPECIFICATIONS.

PIPING SPECIFICATIONS

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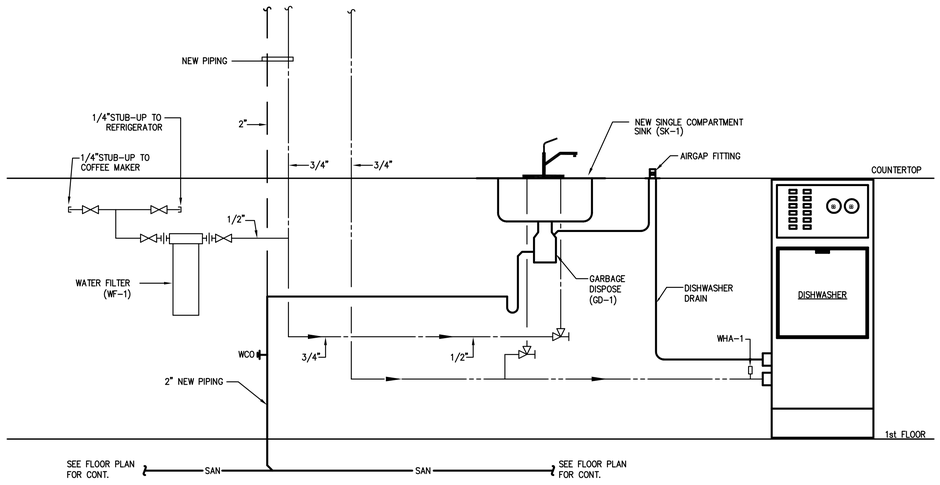
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NOTES:

1. APPLIANCE AND FIXTURE LOCATIONS AND SPECIFICATIONS MAY VARY FROM THE ACTUAL CONDITION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF APPLIANCES AND PLUMBING FIXTURES. WHERE THERE IS A DISCREPANCY BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIREMENTS OF ALL APPLIANCES AND FIXTURES.
3. THIS IS A GENERAL DETAIL AND MAY NOT BE APPLICABLE TO ALL CONDITIONS.

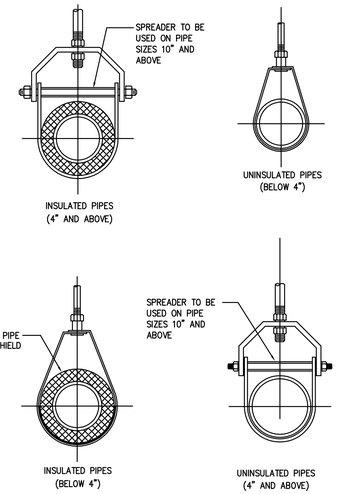
KITCHENETTE SINGLE COMPARTMENT SINK PIPING DIAGRAM | 3

SCHEDULE FOR SINGLE PIPE HANGERS 3/4" THRU 6"			
TYPE NO.	PIPE SIZE	ROD SIZE	MAXIMUM LOAD
1	3/4" THRU 2"	3/8"	500#
2	2 1/2" THRU 3 1/2"	1/2"	1000#
3	4" & 5"	5/8"	1500#
4	6"	3/4"	2000#

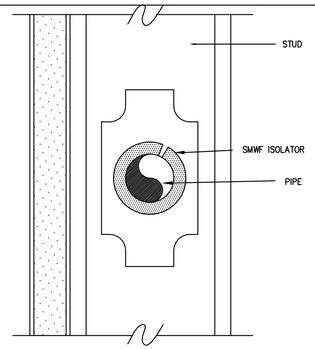
PIPE SUPPORT SPACING SCHEDULE		
TYPE OF PIPE	SIZE	MAX. SPACING
STEEL	1-1/2" AND SMALLER 2" AND LARGER	7 FT. 10 FT.
BRASS OR COPPER	3/4" AND SMALLER 1" TO 1-1/4" 1-1/2" TO 3" 4" AND LARGER	5 FT. 6 FT. 7 FT. 10 FT.

NOTES:

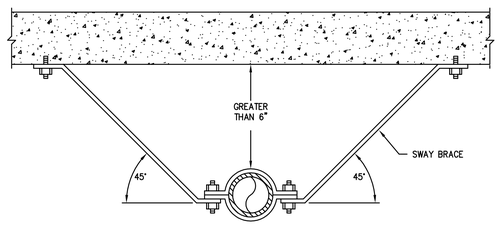
1. SUPPORT PIPE HANGERS FROM STRUCTURAL BEAMS ONLY.
2. STRUCTURAL STEEL PENETRATIONS SHALL BE FIRST REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. (IF APPLICABLE).
3. HANGER AND ROD SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION.
4. SCHEDULED DATA MAY ALSO BE USED FOR TRAPEZE HANGER SELECTION WITH EACH ROD NOT TO EXCEED THE LOADS SHOWN IN THE MAXIMUM LOAD COLUMN.
5. HANGER INSTALLATION AND METHOD OF ATTACHMENT TO STRUCTURE SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.



TYPICLCAL PIPE HANGER DETAIL | 1

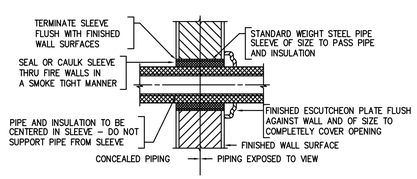


ISOL. OF PIPING PENET./THRU STUDS/PLATES | 6

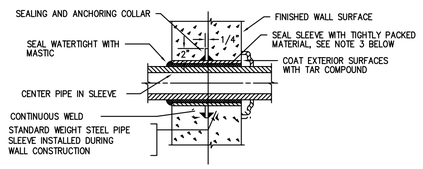


WHEN HUBLESS PIPING IS SUSPENDED IN EXCESS OF 6" BELOW STRUCTURE, SWAY BRACING SHALL BE PROVIDED TO PREVENT HORIZONTAL MOVEMENT. LOCATE BRACE EVERY 30 FT. ON STRAIGHT RUNS WITH AT LEAST ONE BRACE ON OFFSETS IN EXCESS OF 10 FEET. SUBMIT DETAILS IF VARIATION IS REQUIRED.

NO-HUB PIPE SWAY BRACING FOR HORIZONTAL PIPING | 4



INTERIOR WALLS



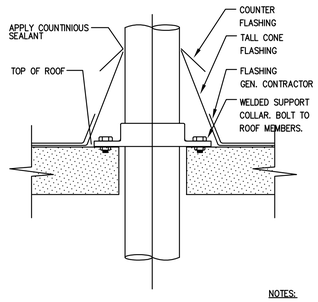
EXTERIOR WALLS/FLOOR

NOTE:

1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE OR BELOW GRADE.
2. FOR GAS SERVICE EXTEND SLEEVE 1" PAST INSIDE FACE OF WALL & 4" PAST OUTSIDE FACE OF WALL.
3. PLUMBING PIPING PENETRATING FIRE RATED WALLS SHALL BE SEALED IN A SMOKE TIGHT MANNER WITH SEALANT MATERIAL OF THE SAME RATING OF THE WALL. FIRE BARRIER 3M MODEL PSS7904 CAL. STATE FIRE MARSHALL LISTING NO. 4485-0941:100.

PIPE SLEEVES THROUGH WALLS/FLOORS | 2

NOT USED | 7



NOTES:

1. ALL FLASHING SHALL BE PER ARCH. DWGS

VENT TROUGH ROOF | 5

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KEYPLAN

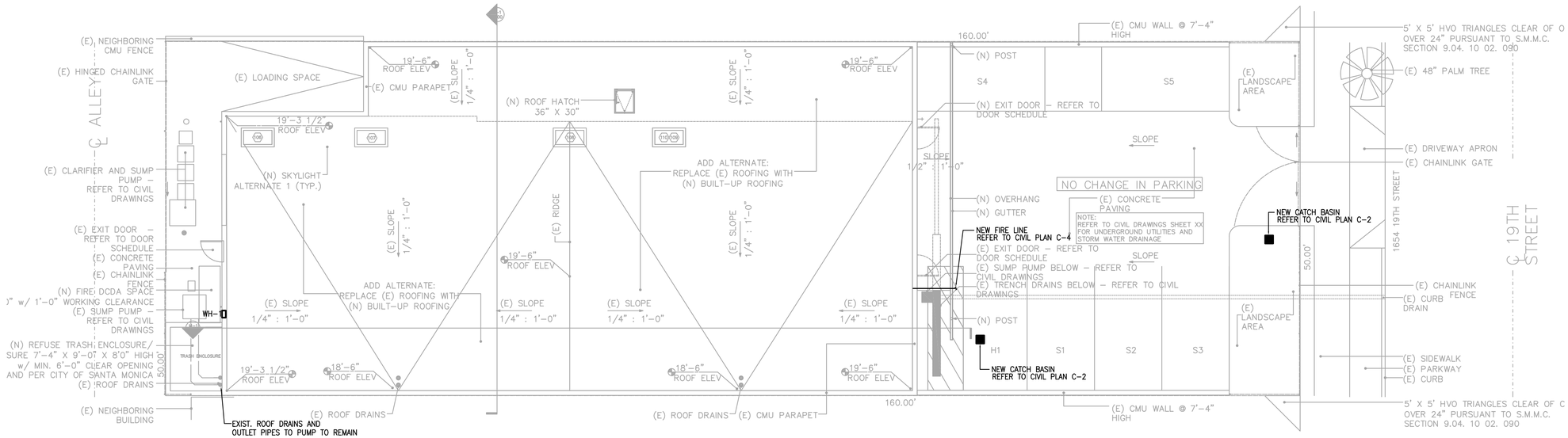
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NOTE:
1. PRIOR TO CONTSTRUCTION OF UNDERGROUND UTILITIES, SEPERATE UTILITY EXCAVATION PERMIT TO BE OBTAINED FROM EPWM DEPARTMENT, ADMINISTRATIVE SERVICES, CITY HALL ROOM 113.

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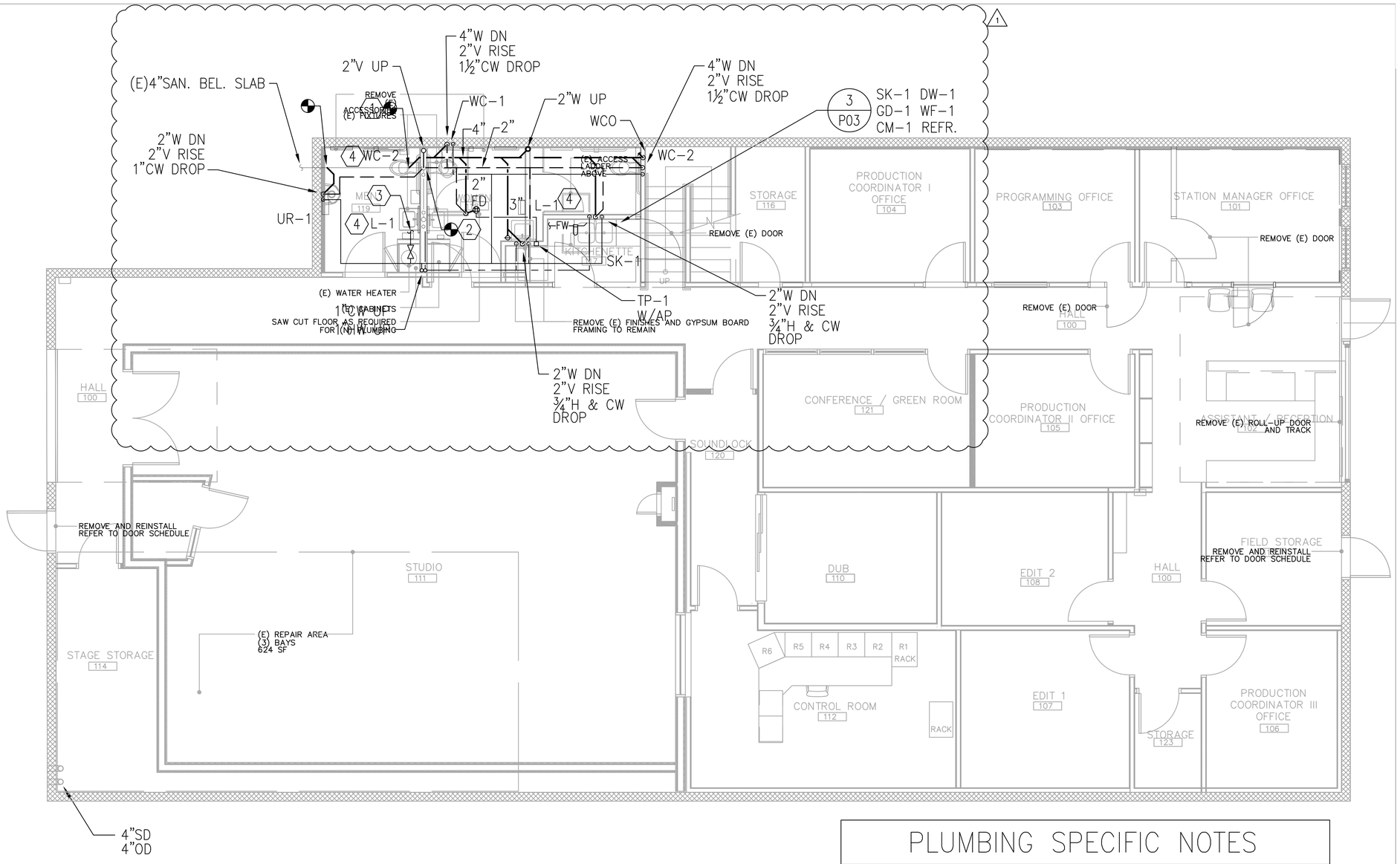
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PLUMBING SPECIFIC NOTES

1. NEW 4" SAN PIPE BELOW FLOOR TO BE CONNECTED TO EXIST. 4" SAN. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE OF THE EXIST. SAN. LINE.
2. NEW 2" VENT LINE CONNECT TO EXISTING VENT LINE IN CEILING SPACE. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE OF EXISTING VENT LINE.
3. NEW 1" CW LINE TO BE CONNECTED TO EXIST. MAIN CW LINE. CONTRACTOR TO VERIFY EXACT LOCATION & SIZE OF THE EXIST. CW MAIN IN CEILING SPACE.
4. EXISTING PLUMBING FIXTURE TO BE REMOVED AND REPLACED WITH NEW. PLUMBING FIXTURES TO BE SPECIFIED BY ARCHITECT.

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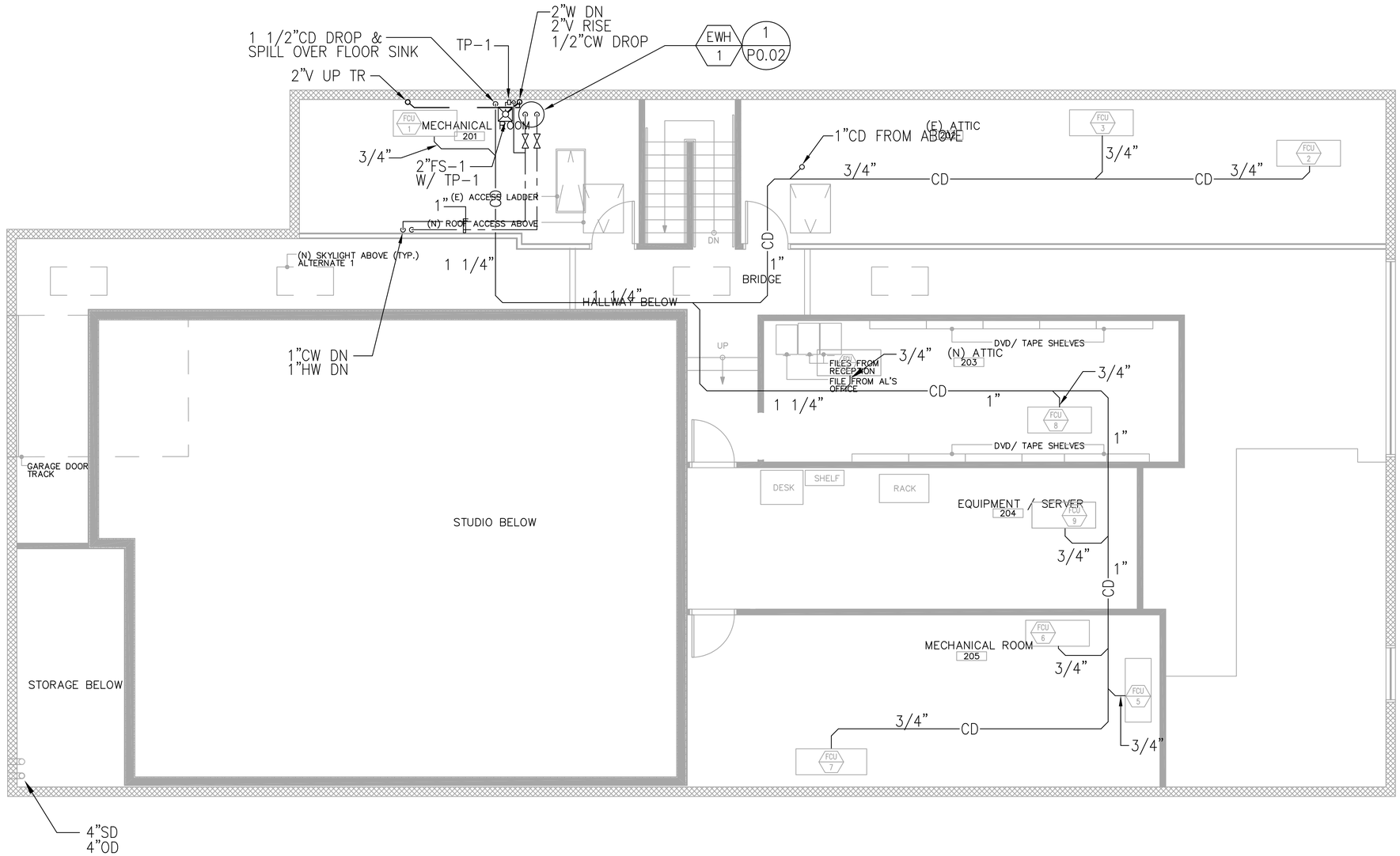
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1ST FLOOR
PLUMBING PLAN
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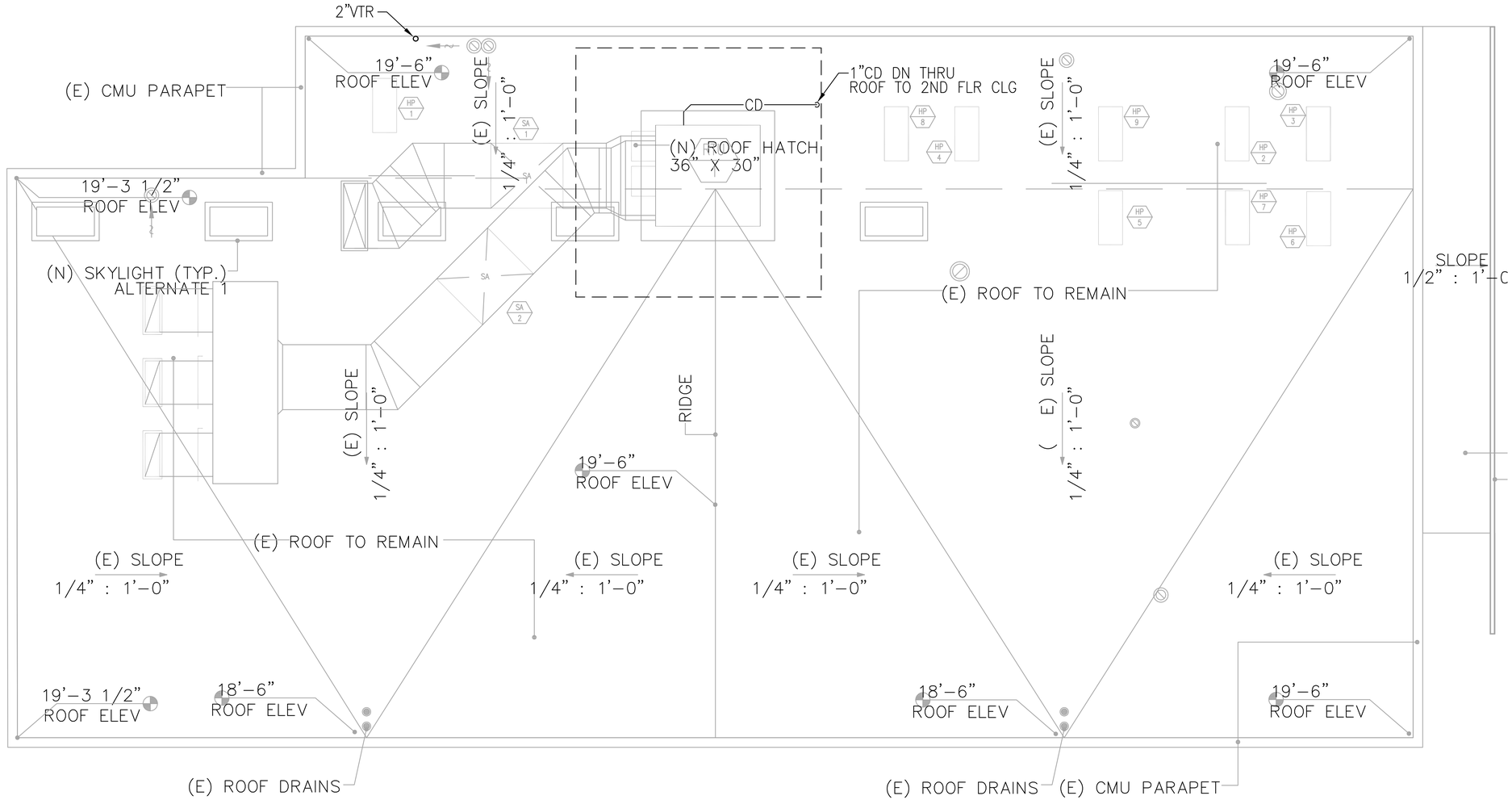
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2ND FLOOR
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PLUMBING ROOF PLAN
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GENEREAL GRADING PLAN NOTES:

1. THIS PLAN ACCURATE FOR DRAINAGE PLAN ONLY.
2. SECURE PERMISSION FROM CITY ENGINEER FOR CONSTRUCTION AND/OR DISCHARGE OF DRAINAGE WITHIN STREET RIGHT-OF-WAY.
3. PROVISIONS SHALL BE MADE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.
4. ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
5. ELEVATIONS SHOWN ARE FOR FINISHED SURFACE. UNLESS OTHERWISE NOTED.
6. FOR EXACT LOCATIONS OF ROOF DRAINS SEE ARCHITECTURE ROOF PLANS.
7. STORM DRAIN LINES SHALL BE 6"PVC(S=2%MIN). UNLESS OTHERWISE SHOWN.
8. SEE MECH PLANS FOR PIPING INSIDE OF STRUCTURES.
9. CONNECT ALL NEW ROOF DRAINS AND NEW SUBSURFACE DRAIN TO TRUNK LINES UNLESS OTHERWISE SHOWN.
10. ALL SIDEWALK. CURB AND GUTTER ALONG 14TH STREET THAT NEEDS TO BE REPAIRED WILL BE RECONSTRUCTED PER CITY OF SANTA MONICA STANDARDS.
11. TREE PROTECTION ZONE:

A. COORDINATED ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
B. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.

C. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.

12. AN AS-BUILT REPORT SHALL BE SUBMITTED TO THE CITY FOR REVIEW. THIS REPORT PREPARED BY THE GEOTECHNICAL CONSULTANT MUST INCLUDE DOCUMENTATION OF ANY FOUNDATION INSPECTIONS, THE RESULTS OF ALL COMPACTION TESTS AS WELL AS A MAP DEPICTING THE LIMITS OF FILL. LOCATIONS OF ALL DENSITY TESTS. OUTLINE AND ELEVATIONS OF ALL REMOVAL BOTTOMS, AND LOCATION AND ELEVATION OF ALL RETAINING WALL BACKDRAINS AND OUTLETS. GEOLOGIC CONDITIONS EXPOSED DURING GRADING MUST BE DEPICTED ON AN AS-BUILT GEOLOGIC MAP.
13. EXCAVATIONS SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
14. TESTS SHALL BE PERFORMED PRIOR TO POURING FOOTINGS AND SLABS TO DETERMINE THE EXPANSION INDEX OF THE SUPPORTING SOILS AND FOUNDATION AND SLAB PLANS SHOULD BE REVIEWED BY THE GEOTECHNICAL CONSULTANT AND REVISED. IF NECESSARY ACCORDINGLY.
15. PRIOR TO BACKFILLING OR COVERING UP ANY URBAN RUNOFF MITIGATION RELATED TO EXCAVATIONS AND/OR STRUCTURES. CONTACT THE CITY URBAN RUNOFF COORDINATOR AT (310)458-8223 FOR INSPECTION.
16. FENCE THE TPZ AS SHOWN WITH SUITABLE FENCING MATERIAL TO PREVENT WOUNDS OF THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREET PROTECTION ZONE – KEEP OUT".
17. NEW PROPOSED IMPROVEMENTS SHALL NOT OBSTRUCT DRAINAGE OR DRAIN INTO NEIGHBORING PRIVATE PROPERTIES.
18. WATER SHALL BE DRAINED AWAY FROM THE FOUNDATION AND SHALL BE MITIGATED FROM PERMEATING INTO FOUNDATION WALL AND FOOTING OF THE NEW PROPOSED IMPROVEMENTS.
19. NO CONSTRUCTION DEBRIS SHALL BE SPILLED OR STORED ONTO PUBLIC RIGHT-OF-WAY.
20. NO RUNOFF OF SEDIMENT OR WASTES IS ALLOWED IN WATER LEAVING THE SITE.
21. ALL SITE UTILITIES SHALL BE CONSTRUCTED UNDERGROUND TO THE NEAREST OFFSITE UTILITY POLE. CONTRACTOR/DEVELOPER HAS MADE ARRANGEMENTS WITH THE UTILITY COMPANIES TO PLACE ALL OVERHEAD UTILITIES UNDERGROUND.
22. APPLICANT IS STRONGLY URGED TO INSPECT THE EXISTING SEWER CONNECTION. IF THE CONNECTION IS DAMAGED OR OVER 30 YEARS OLD. THE CITY RECOMMENDS THAT THE APPLICANT SHOW ON THE PLANS THE CONSTRUCTION OF A NEW 6-INCH DIAMETER VCP SANITARY SEWER CONNECTION FROM PROPERTY LINE TO SANITARY SEWER MAIN IN ACCORDANCE WITH CITY OF SANTA MONICA STANDARDS. (SEWER PERMIT REQUIRED)
23. ALL LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR OFF-SITE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE APPLICANT.
24. IF FIRE SPRINKLERS ARE REQUIRED TO BE INSTALLED OR ALTERED BY BUILDING & SAFETY AND/OR FIRE DEPARTMENT, CONTRACTOR SHALL INSTALL A DOUBLE CHECK DETECTOR ASSEMBLY ON SITE AND ABOVE GROUND PER CITY STANDARDS, THE LOCATION OF WHICH SHALL BE READILY ACCESSIBLE TO ALL CITY AGENCIES. THE DCDA REQUIRES 3' X 8' CLEAR SPACE.
25. OWNER/CONTRACTOR SHALL COMPLY WITH THE UTILITY DIVISION CROSS CONNECTION GUIDELINES.
26. PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY. CROSS CONNECTION CONTROL INSPECTION MUST BE COMPLETED. CONTACT THE CITY WATER DIVISION AT (310) 458-8535.
27. PRIOR TO COMMENCING ANY UNDERGROUND UTILITY WORK. OBTAIN SEPARATE UTILITY EXCAVATION PERMITS AND STREET USE PERMITS FOR UTILITY EXCAVATION. CONTACT EPWM ADMINISTRATIVE SERVICES, ROOM 113.
28. THE SITE MUST COMPLY WITH SMMC CHAPTER 7.10.060 URBAN RUNOFF POLLUTION ORDINANCE FOR CONSTRUCTION ACTIVITIES AND TEMPORARY BMPS.

DRAINAGE NOTES:

A. ALL IMMEDIATE GROUND AREAS AFFECTED BY NEW IMPROVEMENTS SHALL BE GRADED AWAY FROM WALL FOUNDATION AND ADJACENT PROPERTIES.

B. ARCHITECT/CIVIL ENGINEER SHALL DESIGN SUCH THAT ALL UNDERGROUND PIPES FROM DOWNSPOUTS AND AREA DRAINS HAVE AN ACCEPTABLE SLOPE LEADING TO THE INFILTRATION PIT AND OVERFLOW TO STREET CURB.

C. PRIOR TO INSTALLATION OF INFILTRATION PITS OVER FLOW PIPE TOWARDS STREET. OBTAIN A SEPARATE PERMIT AND INSPECTION FROM EPWM ADMIN. ROOM 113.

D. ALL DOWNSPOUTS AT GUTTER LEVEL AND ALL HARDSCAPE AREA DRAINS THAT ARE CONNECTED TO THE INFILTRATION PIT. INFILTRATION AREA, OR ANY OTHER BMP SHALL BE NET SCREENED. (SHOW NET SCREENING DETAILS).

E. CONTACT KIT DALLARTE (310) 458-8731 AND/OR NEAL SHAPIRO (310) 458-8223 FOR BMP INSPECTION, TWO WORKING DAYS PRIOR TO START CONSTRUCTION OF URBAN RUNOFF MITIGATION INFILTRATION PIT AND/OR INFILTRATION AREA.

F. BASEMENT WATER SHALL BE DISCHARGED TO LAWN. (ONLY APPLIES TO DWELLINGS WITH BASEMENT).

PUBLIC WORKS STANDARD NOTES

A. ALL OFFSITE WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS/DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION, AS AMENDED BY THE CITY OF SANTA MONICA AND CITY OF SANTA MONICA STANDARDS,

B. ALL LABOR, EQUIPMENT. AND MATERIAL REQUIREMENTS FOR OFFSITE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE OWNER.

C. THE CITY RECOMMENDS REPLACEMENT OF DAMAGED OR OLDER SEWER LATERALS OVER THIRTY (30) YEARS OLD.

D. ALL ABANDONED DRIVEWAY APRONS/APPROACH RESULTING FROM THE NEW DEVELOPMENT SHALL BE REMOVED AND REPLACED WITH SIDEWALK, PARKWAY AND CURB AND GUTTER.

E. MODIFY EXISTING DRIVEWAYS (WIDEN TO 10 FEET MINIMUM. ETC.) BETWEEN CURB AND PROPERTY LINE PER CITY OF SANTA MONICA.

F. NON-STORM WATER RUNOFF. SEDIMENT AND CONSTRUCTION WASTE FROM THE CONSTRUCTION SITE AND PARKING AREAS IS PROHIBITED FROM LEAVING THE SITE.

G. ANY SEDIMENTS OR MATERIALS, WHICH ARE TRACKED OFF SITE, MUST BE REMOVED THE SAME DAY.

H. EXCAVATED SOIL MUST BE LOCATED ON THE SITE AND SOIL PILES SHOULD BE COVERED AND OTHERWISE PROTECTED SO THAT SEDIMENTS DO NOT GO INTO THE STREET OR ADJOINING PROPERTIES

I. WASHING OF CONSTRUCTION OR OTHER INDUSTRIAL EQUIPMENT ADJACENT TO CONSTRUCTION SITE IS PROHIBITED. WASH WATER IS NOT ALLOWED TO LEAVE THE CONSTRUCTION SITE.

J. DRAINAGE CONTROLS MAY BE REQUIRED DEPENDING ON THE EXTENT OF GRADING AND THE TOPOGRAPHY OF THE SITE.

K. OWNER IS RESPONSIBLE FOR REPAIR OF ALL DAMAGE TO OFFSITE IMPROVEMENTS CAUSED BY CONSTRUCTION. CALLPUBLIC WORKS INSPECTOR FOR INSPECTION OF OFFSITE IMPROVEMENTS AT SUBSTANTIAL COMPLETION OF ONSITE WORK AT (310) 458-8737.

L. ALL EXISTING OVERHEAD UTILITIES SHALL BE PLACED UNDERGROUND PER SANTA MONICA MUNICIPAL CODE SECTION 7.04.820) FOR NEW CONSTRUCTION, OR RENOVATION AND REMODELING THAT EXCEEDS FIFTY PERCENT (50%) OF THE REPLACEMENT COST OF THE BUILDING OR STRUCTURE. OBTAIN UTILITY EXCAVATION PERMIT AND INSPECTION FROM PUBLIC WORKS WHEN UNDERGROUND UTILITIES. AND/OR REMOVING OR RELOCATING EXISTING UTILITY POLE.

M. PROJECT MUST COMPLY WITH CROSS-CONNECTION CONTROL SURVEY INSPECTION (SANTA MONICA MUNICIPAL CODE 7.12.370) READ ATTACHED CROSS-CONNECTION CONTROL GUIDELINES FOR MORE INFORMATION FOR GO TO http://www.lapulichealth.org/eh/progs/envirp/ehcross/htm. FAILURE TO COMPLY WITH THE SANTA MONICA CODE SECTION 7.12.370 MAY RESULT IN DISCONTINUANCE OF WATER SERVICE. ANY QUESTIONS, PLEASE CONTACT CHRIS CAMACHO AT WATER DIVISION: (310)458-6535.

N. PRIOR TO START OF CONSTRUCTION. WHEN INSTALLING NEW OR RELOCATING GAS AND WATER METERS. CONTACT THE GAS CO (310) 605-4183 AND THE WATER DIVISION (310) 458-8535 RESPECTIVELY, FOR VERIFICATION AND APPROVAL.

O. CONTACT SR. PUBLIC WORKS INSPECTOR AT (310) 458-8737 FOR INSPECTION AND COORDINATION OF OFFSITE IMPROVEMENTS AT SUBSTANTIAL COMPLETION OF ONSITE WORK.

P. NO WORK SHALL BE DONE WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL AND PERMIT FROM THE PUBLIC WORKS MANAGEMENT DEPARTMENT-ADMINISTRATIVE SERVICES. ROOM 113.

INSPECTIONS:

THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE BUILDING OFFICIAL 24 HOURS BEFORE THE GRADING OPERATION IS READY FOR EACH OF THE INSPECTIONS:

A. INITIAL INSPECTION: WHEN THE PERMITTEE IS READY TO BEGIN WORK AND BEFORE ANY GRADING OR BRUSHING IS STARTED.

B. TOE INSPECTION: AFTER THE NATURAL GROUND IS EXPOSED AND PREPARED TO RECEIVE FILL AND BEFORE ANY FILL IS PLACED.

C. EXCAVATION INSPECTION: AFTER THE EXCAVATION IS STARTED AND BEFORE THE DEPTH OF EXCAVATION EXCEEDS 10 FEET

D. FILL INSPECTION: AFTER THE FILL REPLACEMENT IS STARTED AND BEFORE THE VERTICAL HEIGHT OF THE LIFTS EXCEEDS 10 FEET.

E. DRAINAGE DEVICE INSPECTION: AFTER FORMS AND PIPE ARE IN PLACE AND BEFORE ANY CONCRETE IS POURED.

F. ROUGH GRADING: WHEN ALL ROUGH GRADING HAS BEEN COMPLETED AND ALL STORM WATER CONTROL MEASURES ARE IN PLACE PER CITY OF SANTA MONICA, ORDINANCES.

G. FINAL INSPECTION: WHEN ALL WORK, INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES, LANDSCAPE MATERIALS FOR EROSION CONTROL, AND OTHER PROTECTIVE DEVICES, HAS BEEN COMPLETED AND THE AS-GRADED PLAN AND REQUIRED REPORTS HAVE BEEN SUBMITTED. THE PERMITTEE NEED NOT WAIT FOR THE INSPECTOR TO ARRIVE BEFORE PROCEEDING WITH THE WORK.

NOTES:

1. THIS PLAN ACCURATE FOR DRAINAGE PLAN ONLY.
2. CONNECT ALL ROOF DRAINS TO MAIN UNDERGROUND STORMDRAIN PIPE WITH 4" PVC PIPE UNLESS OTHERWISE SHOWN.
3. SECURE PERMISSION FROM THE BUILDING OFFICIAL FOR CONSTRUCTION AND/OR DISCHARGE OF DRAINAGE WITHIN STREET RIGHT OF WAY.
4. PROVISIONS SHALL BE MADE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.
5. CONTRACTOR MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
6. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE DONE PER CITY STANDARDS.
7. CONTRACTOR SHALL ACCESS ALL PUBLIC UTILITIES THRU PROPERTY FRONTAGE PERPENDICULAR TO PROPERTY LINE.
8. ALL DRAINAGE PIPES TO BE SLOPED 2% MINIMUM UNLESS OTHERWISE NOTED.
9. MAN-MADE FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90%. COHESIONLESS SOILS WITH LESS THAN 15% FINER THAN .005 MM REQUIRE 95% COMPACTION. SE. 91.7011.3.
10. STORM DRAIN PIPES SHALL BE 6" PVC PIPE UNLESS OTHERWISE SHOWN.
11. CONTACT KIT DALLARTE (310) 458-8731 AND/OR NEIL SHAPIRO (310) 458-8223 FOR BMP INSPECTION, TWO WORKING DAYS PRIOR TO START OF CONSTRUCTION OF URBAN MITIGATION INFILTRATION PIT AND/OR INFILTRATION AREA.
12. ALL IMMEDIATE GROUND AREAS AFFECTED BY NEW IMPROVEMENTS SHALL BE GRADED AWAY FROM WALL FOUNDATION AND ADJACENT PROPERTIES.
13. ARCHITECT/CIVIL ENGINEER SHALL DESIGN SUCH THAT ALL UNDERGROUND PIPES FROM DOWNSPOUTS AND AREA DRAINS HAVE AN ACCEPTABLE SLOPE LEADING TO THE INFILTRATION PIT AND OVERFLOW TO STREET CURB.
14. PRIOR TO INSTALLATION OF INFILTRATION PITS OVER FLOW PIPE TOWARDS STREET, OBTAIN A SEPARATE PERMIT AND INSPECTION FROM EPWM ADMIN, ROOM 113
15. ALL DOWNSPOUTS AT GUTTER LEVEL AND ALL HARDSCAPE AREA DRAINS THAT ARE CONNECTED TO THE INFILTRATION PIT, INFILTRATION AREA, OR ANY OTHER BMP SHALL BE NET SCREENED (SHOW NET SCREENING DETAILS).
16. PRIOR TO THE EXCAVATION OF INFILTRATION PIT, CALL THE COMMUNITY FORESTER, (310)458-8974



VICINITY MAP
NOT TO SCALE

SHEET INDEX:

SHEET	NUMBER
COVER SHEET C-1	1
DRAINAGE PLAN C-2	2
DETAIL SHEET C-3	3
UTILITY PLAN C-4	4

IMPORTANT NOTICE:

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS:

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS.
2. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS."
3. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' AND SUBCONTRACTORS' COMPLIANCE WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS.'
4. CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE CITY, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
5. THE CONTRACTOR IS TO VERIFY PRIOR TO CONSTRUCTION THE VERTICAL AND HORIZONTAL ALIGNMENT OF THE ENTIRE LEGNTH OF ALL PROPOSED UNDERGROUND UTILITIES. IN ADDITION PRIOR TO CONNSTRUCTION THE CONTRACTOR IS TO VERIFY ALL CROSSING AND JOIN ELEVATIONS OF THE PROPOSED UNDERGROUND UTILITIES AND IMMEDIATELY NOTIFY THE CIVIL ENGINEER OF ANY CONDITIONS THAT WOULD REQUIRE MODIFICATIONS TO THE APPROVED PLANS.

UNAUTHORIZED CHANGES AND USES:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO REPORT DISCREPANCIES IN PLANS AND/OR FIELD CONDITIONS IMMEDIATELY TO THE DESIGN ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DISCREPANCIES NOT SO REPORTED AND RESOLVED.

BENCH MARK:

CITY OF SANTA MONICA FIELDBOOK NO. 494.21

ELEVATION = 131.510 CITY OF SANTA MONICA DATUM

P.K. NAIL IN LEAD IN SOUTHEAST CURB OF OLYMPIC BOULEVARD 19.7 NORTHEAST OF NORTHEAST CURB OF 19TH STREET.

PREPARED BY:

DAVID R. GRAY, INC.

3211 CORTE MALPASO, SUITE 401
CAMARILLO, CA 93012
805-987-3945 FAX: 805-987-1655
JOB NO. 0915 JUNE 2009 LA 671-G1
DATE OF SURVEY: 06-24-09

SOILS ENGINEER:

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

NO.	DATE	DESCRIPTION OF REVISION

PREPARED FOR:
CITY OF SANTA MONICA
1685 MAIN ST.
SANTA MONICA, CA 90401
(310) 458-8411

PREPARED BY:
THE G4 GROUP INC. Consulting Engineers
165 EAST HIGH STREET, SUITE 203
MOORPARK, CA 93021
PHONE: (805) 523-0010 FAX: (805) 553-0626

CIVIL ENGINEER:
MARK ROGERS 42848 R.C.E. NO. DATE

REGISTERED PROFESSIONAL ENGINEER
MARK ROGERS
No. 42848
Exp. 03/10
CIVIL
STATE OF CALIFORNIA

COVER SHEET

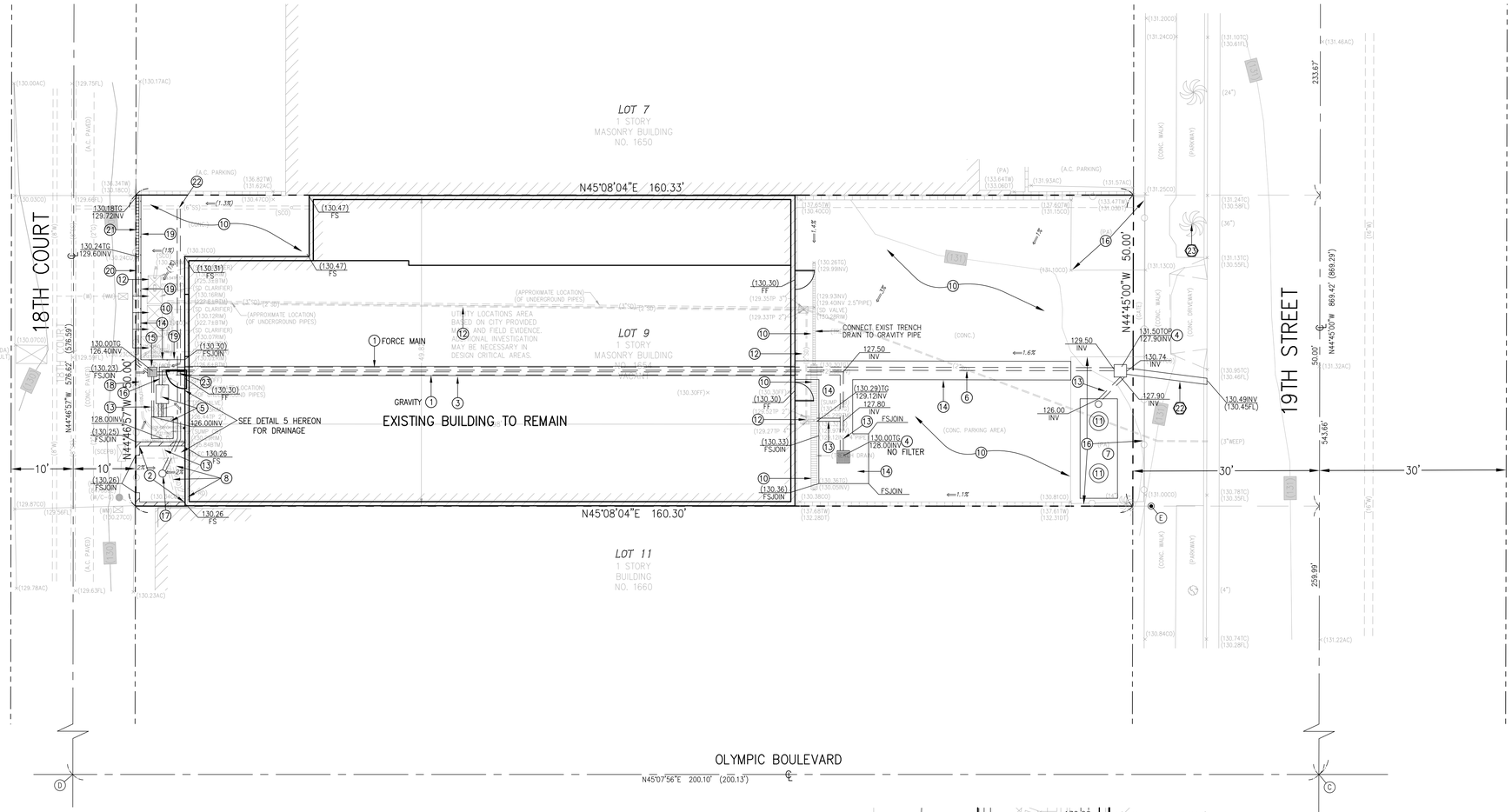
1654 19TH STREET, SANTA MONICA

LOT 9, BLOCK 12, ERKENBRECHER SYNDICATE, M.B. 6-26/27
IN THE CITY OF SANTA MONICA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

REVIEWED BY: DATE
DRAWN BY: DATE
CHECKED BY: DATE
RELEASE DATE: JUNE 2010

C-1
JOB NO. 0930

P:\0930\dwg\0930C1C2C3.dwg 6/14/2010 10:35:41 AM PDT



CONSTRUCTION NOTES: ON-SITE

1. 6" CAST IRON PIPE UNDER BUILDING 1% MIN.
2. CONSTRUCT TRASH ENCLOSURE PER ARCHITECTS PLAN
3. 18" WIDE TRENCH PER ARCHITECTS PLANS
4. CONSTRUCT 24"x24" CATCH BASIN PER JENSEN PRODUCTS #DI2424 WITH DRAIN PAC FILTER PER DETAIL HEREON.
5. SUMP PUMP PER DETAIL 1 ON SHEET C-3
6. 6" FORCE MAIN (SCH 40 PVC) PIPE
7. INSTALL CUDO'S MODULES PER DETAIL 2 ON SHEET C-3
8. ROOF DRAINS AND OUTLET PIPES TO PUMP TO REMAIN
9. 4" PVC PIPE - SDR 35
10. EXISTING IMPROVEMENTS TO REMAIN
11. 36" DIA. HOLES WITH GRAVEL WRAPED IN FILTER FABRIC
12. ABANDON EXIST IMPROVEMENTS IN PLACE CONTRACTOR TO VERIFY EXTENT WITH ARCHITECT
13. 6" SCH 40 PVC PIPE
14. REMOVE AND REPLACE EXISTING CONCRETE PER CONTRACTOR
15. CONSTRUCT 18"x18" CATCH BASIN PER JENSEN PRODUCTS #DI1818
16. LANDSCAPE PLANTER
17. CONSTRUCT 6" AREA DRAIN PER NDS PRODUCTS OR APPROVED EQUAL
18. REMOVE EXISTING DRAIN LINE
19. SAWCUT AND JOIN
20. 4" SCH 40 PVC PIPE AT 1% MIN.
21. CONTRACTOR TO CUT INTO THE EXISTING CONCRETE PAD AND CONSTRUCT 10' OF NEW 4" "TRAFFIKDRAIN" PER ACO PRODUCTS WITH SLOPED INVERT SECTIONS, OR APPROVED EQUAL
22. CONNECT TO EXISTING SEWER LATERAL. CONTRACTOR TO VERIFY DEPTH AT CONNECTION POINT
23. CONTRACTOR TO VERIFY ALL CROSSING AND CONNECTION DEPTHS PRIOR TO PLACING ANY PIPE AND TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES. TYPICAL ALL AREAS

CONSTRUCTION NOTES: OFF-SITE

22. CONSTRUCT 11.38" X 3.0" (#2A) RETANGULAR PIPE THRU CURB PER FOUNDARY SERVICES INC.
23. TREE PROTECTION AND CANOPY ZONE AREA PER LANDSCAPE PLAN

LEGEND:

AL	AREA LIGHT
AC	ASPHALT
BFD	BACKFLOW DEVICE
BW	BACK OF WALK
CB	CATCH BASIN
CONC	CONCRETE
CF	CURB FACE
CTV	CABLE TELEVISON
DCD	DOUBLE CHECK DETECTOR
DS	DOWNSPOUT
FDC	FIRE DEPT. CONNECTION
FF	FINISHED FLOOR
FL	FLOWLINE
FS	FINISHED SURFACE
GB	GRADE BREAK
GTE	GENERAL TELEPHONE
NG	NATURAL GRADE
PB	PULL BOX
PIV	POST INDICATOR VALVE
PM	PARKING MG METER
PL	PROPERTY LINE
SCE	SO. CAL. EDISON
SCO	SEWER CLEAN OUT

SD	STORM DRAIN
SL	STREET LIGHT
SS	SANITARY SEWER
TC	TOP OF CURB
TS	TRAFFIC SIGNAL
TW	TOP OF WALL#
WM	WATER METER
WV	WATER VALVE
XFMR	ELECTRIC TRANSFORMER
	FIRE HYDRANT
	STREET SIGN
	CONCRETE WHEEL STOP
	CONCRETE BLOCK WALL
	FOUND MONUMENT PER P.M. 89-185
(X)	EXISTING
(X)	EXISTING CONTOUR
X	PROPOSED CONTOUR
X%	DIRECTION & RATE OF FLOW
	PROPOSED ST. LIGHT PER CITY STDS.
5%	DIRECTION & RATE OF FLOW
	PARKING LOT LIGHT PER ARCHITECTS PLAN
(E)	EXISTING

LIGHT DELINEATION SHOWN HEREON INDICATES EXISTING
BOLD DELINEATION SHOWN HEREON INDICATES PROPOSED CONST.

DETECTABLE WARNINGS PER ARCHITECT'S PLAN

T TRANSFORMER

ATTENTION: If, this map is provided in an electronic format (on computer disk) as a courtesy to client. The delivery of the electronic file does not constitute the delivery of our professional work product. The signed paper print delivered with this electronic file constitutes our professional work product, and in the event the electronic file is altered, the print must be referred to, for the original and correct survey information. We shall not be responsible for any modifications made to the electronic file, or for any products derived from the electronic file which are not reviewed, signed and sealed by us.

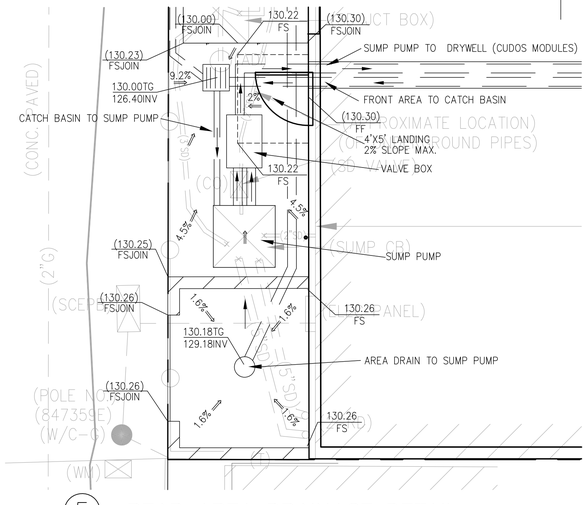
GENERAL NOTES:

1. THIS SURVEY IS THE PROPERTY OF DAVID R. GRAY, INC. AND MAY NOT BE COPIED, CHANGED OR REPRODUCED IN ANY MANNER WHATSOEVER, NOR IS IT TO BE ASSIGNED TO A THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF DAVID R. GRAY, INC.
2. IF UNDERGROUND PUBLIC UTILITIES, OTHER STRUCTURES OR ZONE SETBACKS AND STREET WIDENING DATA ARE SHOWN HEREON, IT IS FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES, BUT FROM OTHERS NOT CONNECTED WITH THIS COMPANY, THEREFORE NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION.

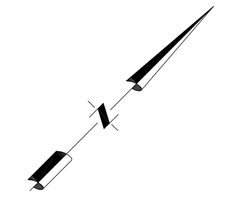
URBAN RUNOFF:

"THE GEOTECHNICAL ENGINEER HAS REVIEWED AND APPROVED THE URBAN RUNOFF MITIGATION SYSTEM, INCLUDING CONFIRMING ADEQUATE PERCOLATION."

GEOTECHNICAL ENGINEER: PSI INC. R.C.E. NO. DATE



5 REAR AREA DRAINAGE DETAIL
N.T.S.



GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1 inch = 10 ft.

DROP INLET

A drop inlet is a multi-layer filtration insert that collects street run-off as it enters a curbside grate.

CONFIGURATION
A typical drop inlet configuration has a lateral line at the bottom connecting to the storm drain system (more than 1/4 into the depth of the inlet). This possibility of clogging lateral lines, not to mention the contamination of pump plants or replacement of pumps being damaged by sediments and debris, is not uncommon.
The DrainPac is retrofitted to the configuration of the drain, eliminating any interference with lateral line traffic flow. The debris that can clog lateral lines and contaminated sediment will be retained to the configuration of the inlet.

More sediment can be retained in the configuration of the inlet with the DrainPac while water is filtered through the liner.

INSTALLATION
When installing the DrainPac into a drop inlet, a steel support bracket is mounted onto the existing grate shelf using studs that are drilled into the concrete. Special studs (red heads) are used because they expand inside the concrete and create support for the DrainPac. The support basket is placed onto the studs of the bracket. The liner is suspended in the basket and the retainer rings on the liner fit onto the studs of the bracket. Springs and pins on each stud keep the installation uniform: bracket, basket and liner.

The filter system is suspended above the main channel of the drain thus eliminating any interference with lateral flow within the storm drain line beneath the drop inlet. Bypass flapper-valves are positioned every two linear feet and comprised of buoyant material. If runoff reaches the level of the bypass system, the bypass valves will open, allowing the water to overflow and escape filtration. The bypass is important in preventing rain diversion and below grade flooding.

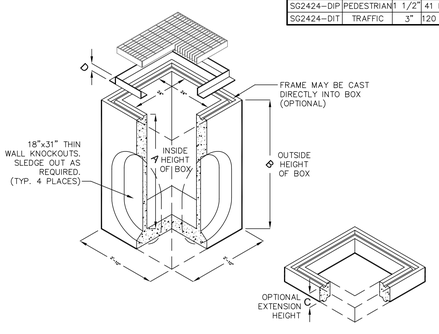
A typical crew can install the system in a matter of minutes. The filter support structure is flexible and easy to suspend on the support bracket.

These two elements of the DrainPac should have a life expectancy consistent with the existing storm drain components. The filter bag can be removed and cleaned several times before replacement is necessary.

DROP INLET			
MODEL NO.	A	B	*WEIGHT
DI242436	36"	42"	1900 LBS.
DI242448	48"	54"	2500 LBS.

*BOX ONLY

FRAME AND GRATE				
MODEL NO.	RATING	D	WEIGHT
SG2424-DIP	PEDESTRIAN	1 1/2"	41 LBS.
SG2424-DIT	TRAFFIC	3"	120 LBS.



EXTENSION		
MODEL NO.	C	WEIGHT
RS242406	6"	300 LBS.
RS242412	12"	600 LBS.

- FRAME AND GRATE ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- FRAME AND SOLID COVER ASSEMBLY AVALIABLE IN TRAFFIC OR PEDESTRIAN MODELS.
- DESIGN FOR H-20-44 BRIDGE LOADING.
- ASSEMBLY TO BE PLACED ON A 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.
- ILLUSTRATION IS TYPICAL ONLY OF GENERAL SERIES CONFIGURATION; FOR SPECIFIC CONFIGURATION, CALL JENSEN PRECAST.

24" X 24" DRAIN INLET

JENSEN PRECAST

DI2424

ORIG. ISSUE DATE: 11-28-00 REV. ISSUE DATE:

4 CATCH BASIN AND FILTER DETAIL

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

NO.	DATE	DESCRIPTION OF REVISION

PREPARED FOR:
CITY OF SANTA MONICA
1685 MAIN ST.
SANTA MONICA, CA 90401
(310) 458-8411

PREPARED BY:
THE G4 GROUP INC. Consulting Engineers
165 EAST HIGH STREET, SUITE 203
MOORPARK, CA 93021
PHONE: (805) 523-0010 FAX: (805) 553-0626

CIVIL ENGINEER:
MARK ROGERS
No. 42848
Exp. 03/10
CIVIL
STATE OF CALIFORNIA
42848
MARK ROGERS R.C.E. NO. DATE

DRAINAGE PLAN

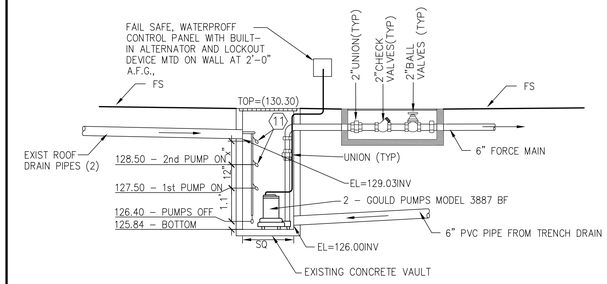
1654 19TH STREET, SANTA MONICA

LOT 9, BLOCK 12, ERKENBRECHER SYNDICATE, M.B. 6-26/27
IN THE CITY OF SANTA MONICA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

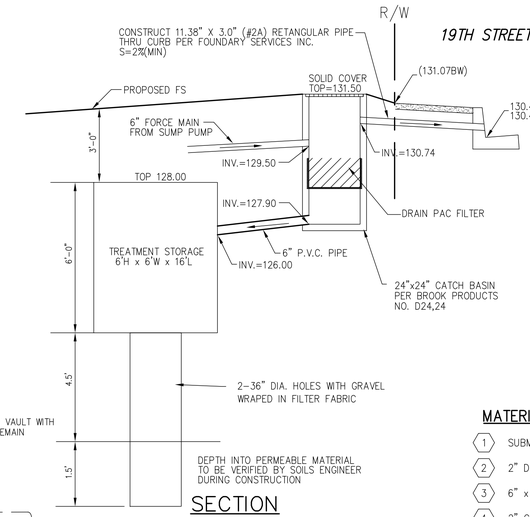
REVIEWED BY: DATE
DRAWN BY: DATE
CHECKED BY: DATE

C-2
JOB NO. 0930
RELEASE DATE: JUNE 2010

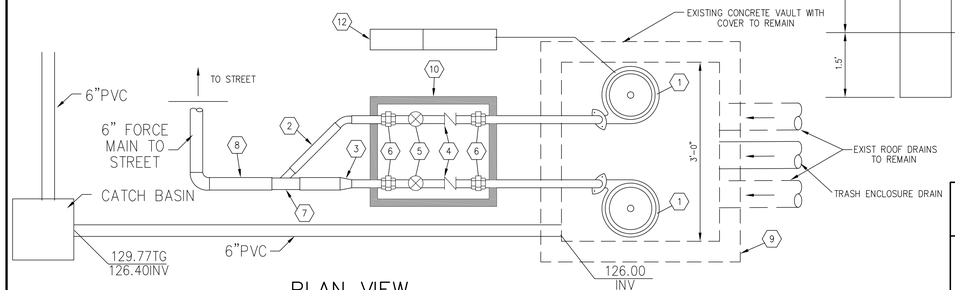
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SECTION



SECTION



PLAN VIEW

CATCH BASIN TO SUMP PUMP TO STREET

MATERIAL LIST:

1	SUBMERSIBLE NON–CLOG PUMP	7	6" X 6" X 2" WYE
2	2" DISCHARGE PIPING	8	6" FORCE MAIN TO 19 ST.
3	6" x 4" x 2" REDUCER	9	EXISTING CONCRETE VAULT
4	2" CHECK VALVES	10	VALVE VAULT BOX
5	2" GLOBE VALVES (OR GATE VALVES)	11	LIQUID LEVEL SENSORS
6	2" UNION (OR VICTAULIC COUPLING)	12	CONTROL PANEL

PUMP STATION – GENERAL NOTES

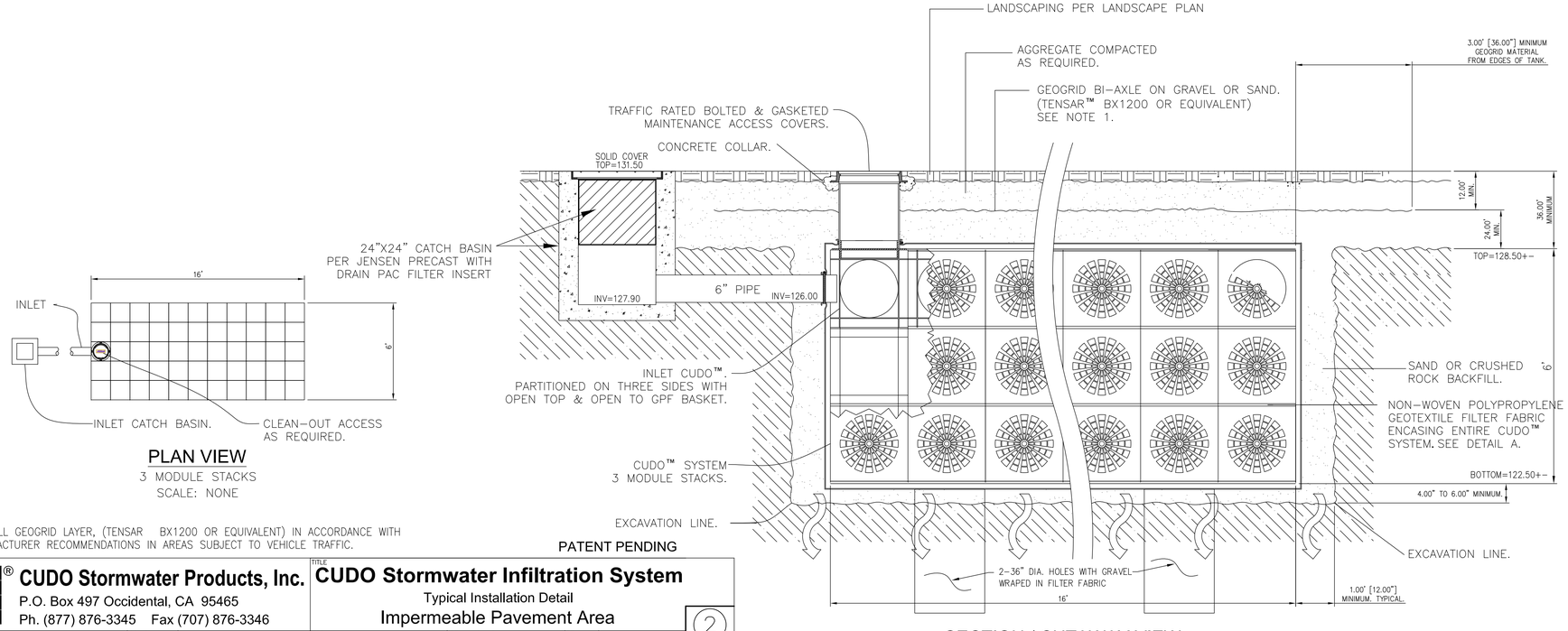
1. THE CONTRACTOR SHALL FURNISH AND INSTALL A DUPLEX SUBMERSIBLE NON–CLOG PUMP SYSTEM. THE CONTRACTOR SHALL FURNISH ALL PIPING, CHECK VALVES, INLET FACILITIES, LEVEL SENSORS AND MOTOR CONTROLS NECESSARY TO PROVIDE A FULLY OPERATIONAL PUMPING SYSTEM. ALL OF THE COMPONENTS OF THE PUMPING SYSTEM SHALL BE U.L. LISTED AND SUITABLE FOR OPERATION IN THE PROPOSED INSTALLATION.
2. PUMP CHARACTERISTICS:

DESIGN FLOW RATE	= 150 GPM	DESIGN TDH	= 16	FT.
MINIMUM SOLIDS SIZE	= 2 INCHES	SHUTOFF HEAD	= 36	FT.
MOTOR HORSEPOWER	= 1.0 HP	MOTOR SPEED	= 1750	RPM

3. THE PUMPS SHALL HAVE CAST IRON, VORTEX OR SEMI–OPEN, IMPELLER DESIGNED FOR NON CLOG OPERATION. THE PUMP MOTORS SHALL OPERATE ON SINGLE PHASE POWER, UNLESS VERIFICATION OF ALTERNATIVE POWER IS AVAILABLE. THE MOTORS SHALL BE PROVIDED WITH THERMAL OVERLOAD PROTECTION WITH AUTOMATIC RESET AND SHALL BE DESIGNED FOR CONTINUOUS OPERATION AND CAPABLE OF RUNNING DRY WITHOUT DAMAGE TO COMPONENTS. THE PUMPS SHALL BE GOULD PUMPS –MODEL 3887 (WS10BF) OR APPROVED EQUAL.
4. THE 2 INCH DIAMETER DISCHARGE PIPING INSIDE THE WET WELL SHALL BE GALVANIZED IRON, STEEL, DUCTILE IRON PIPE. THE DISCHARGE PIPING OUTSIDE OF THE WET WELL AND VALVE VAULT SHALL BE DUCTILE IRON OR PVC (SCHEDULE 40 OR AWWA C 900) PRESSURE PIPE WITH THE APPROPRIATE JOINTS TO MATCH THE JOINING PIPES PUMPS AND VALVES. THE FORCE MAIN CONSTRUCTED UNDER THE BUILDING SHALL COMPLY WITH PLUMBING CODE REQUIREMENTS.
5. THE PUMP STATION SHALL BE INSTALLED IN THE EXISTING CONCRETE VAULT WHICH WILL USED AS THE PUMP WET WELL. THE WET WELL SHALL BE PROVIDED WITH A TRAFFIC RATED SOLID COVER. THE NEW VALVE VAULT SHALL BE A PRECAST OR POURED IN PLACE CONCRETE VAULT WITH REMOVABLE TRAFFIC COVERS.
6. THE ELECTRICAL POWER SERVICE AVAILABLE TO THE SITE SHALL BE VERIFIED PRIOR TO ORDERING THE PUMPS. THE ELECTRICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES. THE ELECTRICAL POWER TO THE PUMP LOCATION, SHALL BE PROVIDED BY OTHERS.
7. THE OPERATION OF EACH PUMP SHALL BE CONTROLLED BY FLOAT SWITCHES TO AUTOMATICALLY START AND STOP THE PUMPS AT THE LEVELS SHOWN. THE PUMP STATION SHALL BE PROVIDED WITH A DUPLEX WEATHER PROOF CONTROL PANEL WITH A TWO PUMP ALTERNATOR FOR CONTROLLING THE LEAD AND LAG PUMPS.
8. THE CONTRACTOR MAY SELECT AN ALTERNATIVE MANUFACTURER AND MODEL FOR THE PUMP, CHECK VALVE, FLOAT SWITCHED, AND OTHER ACCESSORIES. ALL OF THE PRODUCTS SHALL MEET THE CRITERIA AND REQUIREMENTS SPECIFIED ABOVE. DOCUMENTATION FROM THE MANUFACTURES SHALL BE PROVIDED TO INDICATE THE MAKE AND MODEL OF THE PRODUCT IS SUITABLE FOR THIS INTENDED USE.

SUMP PUMP GENERAL NOTES

1 N.T.S.



SECTION / CUTAWAY VIEW

SCALE: NONE

PLAN VIEW

3 MODULE STACKS

SCALE: NONE

NOTES:

1. INSTALL GEOGRID LAYER, (TENSAR BX1200 OR EQUIVALENT) IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS IN AREAS SUBJECT TO VEHICLE TRAFFIC.

PATENT PENDING

CUDO Stormwater Products, Inc.
P.O. Box 497 Occidental, CA 95465
Ph. (877) 876-3345 Fax (707) 876-3346

TITLE: **CUDO Stormwater Infiltration System**
Typical Installation Detail
Impermeable Pavement Area

DO NOT SCALE DRAWING	SCALE: NONE	DRAWN / DATE: JPR 7/21/08	ECO: 0001 JPR 10/22/08	DRAWING NO.: CUDO-IN-0001	REV: A	SHEET 1 OF 1

2 N.T.S.

Urban Runoff Mitigation Plan: Worksheet & Summary

Working for a cleaner bay

1. TYPE OF NEW DEVELOPMENT -- Check the Appropriate Line Below

Threshold Achieved - Mitigation Required: 514 cu.ft.
Project Address: 1654 19TH STREET
PC#:

Check which threshold used

____ (1) Vacant site or on a site where fifty percent (50%) or more of the square footage of the structures is removed prior to construction.

____ (2) Existing building or structure has been damaged or needs repairs, or the owner is making repairs, alterations, or rehabilitation in an amount exceeding 50% of the replacement cost of the building or structure. The City's Building Officer shall determine the replacement cost of the building or structure and may use the most current building valuation table published by the International Conference of Building Officials. The Building Officer shall also determine the fair market value of any necessary repairs and may calculate the fair market value of repairs based on three responsible bids from properly licensed contractors.

____ (3) Project that (a) results in improvements to 50% or greater of the square footage of a building, (b) creates or adds at least 5,000 square feet of impervious surfaces, or (c) creates or adds 50% or more of impervious surfaces.

__X__ (4) City project undertaken where the runoff controls required by the Urban Runoff Ordinance are feasible and economical, but which would not otherwise constitute new development as defined above.

Type of Land Use (check one): ____Single-Family ____Multi-Family ____Mixed Use (Residential-Commercial) ____Commercial __X__Government ____Institutional (Education and Medical Facilities)

Threshold Not Met - Voluntary Mitigation: _____

Value of Improvements $ 1.4 Million : Value of Existing Structure $ 3.2 Million = 43 %

2. CALCULATE TOTAL RUNOFF MITIGATION REQUIRED TO ACHIEVE 0.75 Inch RAIN EVENT REDUCTION GOAL BY STORAGE VOLUME OR TREATMENT FLOW (WHICHEVER IS APPROPRIATE)

STORAGE VOLUME OPTION

7840 Impervious Area sq. ft.*	X	0.0625 ft. x 2.5 (rock) **OR** 0.0625 ft. x 1.05 (plastic)	=	1225 Planned Mitigation cu. ft. (rock) 514 Planned Mitigation cu. ft. (plastic)	A**
0 Pervious Area sq. ft. (0.0625 ft. – 0.75 in. x 0.0833 ft./in.)	X	0.0625 ft.	=	Pervious Retention cu. ft.	B

TREATMENT FLOW OPTION

514 Planned Mitigation Volume cu. ft.	÷	13.5 Treatment Flow Coefficient	=	38 Treatment Flow (gallons per minute)***

* List all hardscape square footages that total this figure:
Roof area 4,698 ; Walkway area N/A ; Patio area: N/A ; Driveway area: 2,944 ; Misc. area N/A

All new and some existing impermeable areas must be directed to BMPs unless excluded by the approved building plans or appropriate City official.

** A is the volume that needs to be mitigated via BMP infiltration and/or treatment and release.

***This treatment flow represents a portion of total site runoff flow. Flow exceeding design treatment flow must be directed to another BMP or offsite. Generally, this flow is used for commercial and larger multi-family projects, NOT single family.

OVER

March 2007 revision

Urban Runoff Mitigation Plan: Worksheet & Summary continued

3. REQUIRED FIGURES FOR SUBMISSION WITH PLAN (these specific figures are kept confidential)

(attach drawings if available)

a. INCLUDE AREA OF PERMEABLE PAVING USED AS BMP (where applicable) N/A ft²

b. INCLUDE TOTAL COST or ESTIMATE OF BMP(s) (labor and materials) $ 10,000

c. INCLUDE TOTAL PROJECT COST $ 1.4 Million

Runoff from all hardscapes must be directed to the BMP.

4. LIST NAME(S) OF PROPOSED MITIGATION MEASURES OR BEST MANAGEMENT PRACTICES (BMPs) TO BE USED (add attached sheets or drawings if necessary; examples include Infiltration Pit or Drywell, Depression Basin, French Drain, Biofilter or Landscape; see Insert List of Approved BMPs or City web site under Engineering, Design page): Installation of a new drainage system,United Storm Water filter inserts in catch basins and CUDO's underground infiltration system.

5. EXPLAIN THE MAINTENANCE PLAN (such as, BMPs shall be inspected before and after rainy seasons, checking roof downspouts, visually checking overflow pipes, cleaning debris from gutters and downspouts, checking overflow curb openings of BMPs, maintaining the depressed areas, maintaining landscape above and around an infiltration pit, where applicable): Filter inserts & CUDO system are to be inspected and cleaned per manufactures recommendations but not less than once a month during the rainy season.

6. PROJECT PLAN INFORMATION

a. PROJECT ADDRESS IN SANTA MONICA: 1654 19TH STREET

b. PROPERTY OWNER NAME/ADDRESS/PHONE (if different than a): The City of Santa Monica

c. ALTERNATE ADDRESS DURING CONSTRUCTION (if different than a): N/A

d. CONTRACTOR NAME/ADDRESS/PHONE/FAX/E-MAIL NUMBERS: Not chosen at this time.

Anticipated Start Date: 10/2009 Estimated Project Completion Date: 10/2010

Report Prepared by: The G4 Group Inc. Date: 08/30/09

Architect or Engineer Name/Address/Phone/Fax/E-Mail Numbers: The G4 Group Inc.
165 E. High Street, #203
Moorpark CA. 93021

I hereby agree that I will complete all runoff mitigation measures described herein and/or in the approved plans prior to completion of the project. The City of Santa Monica has no responsibility or liability for any urban runoff mitigation measure, i.e. BMP, installed to comply with the urban runoff requirements at this project address. I agree that I have consulted with appropriate professionals regarding the size and suitability of the BMP that I have selected for the specific conditions present at my site. I further agree to maintain any BMP(s) on my property for as long as I own this property.

Property Owner or Authorized Representative

Signature: _____ Date: _____

Print Name/Title: President

City Reviewer: _____ Date: _____ PC#_____

You need to call the City's Urban Runoff Management Coordinator before completion of your BMP so that the BMP can be inspected for approval. You will NOT receive a Certificate of Occupancy without this approval. For this and for more information about the Santa Monica Urban Runoff Ordinance, call (310) 458-8223. For engineering questions, call (310) 458-8721.

URBAN RUNOFF WORKSHEET

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

NO.	DATE	DESCRIPTION OF REVISION

PREPARED FOR:
CITY OF SANTA MONICA
1685 MAIN ST.
SANTA MONICA, CA 90401
(310) 458–8411

PREPARED BY:
THE G4 GROUP INC. Consulting Engineers
165 EAST HIGH STREET, SUITE 203
MOORPARK, CA 93021
PHONE: (805) 523-0010 FAX: (805) 553-0626

CIVIL ENGINEER:
REGISTERED PROFESSIONAL ENGINEER MARK ROGERS No. 42848 Exp. 03/10 CIVIL STATE OF CALIFORNIA
42848
MARK ROGERS R.C.E. NO. DATE

DETAIL SHEET

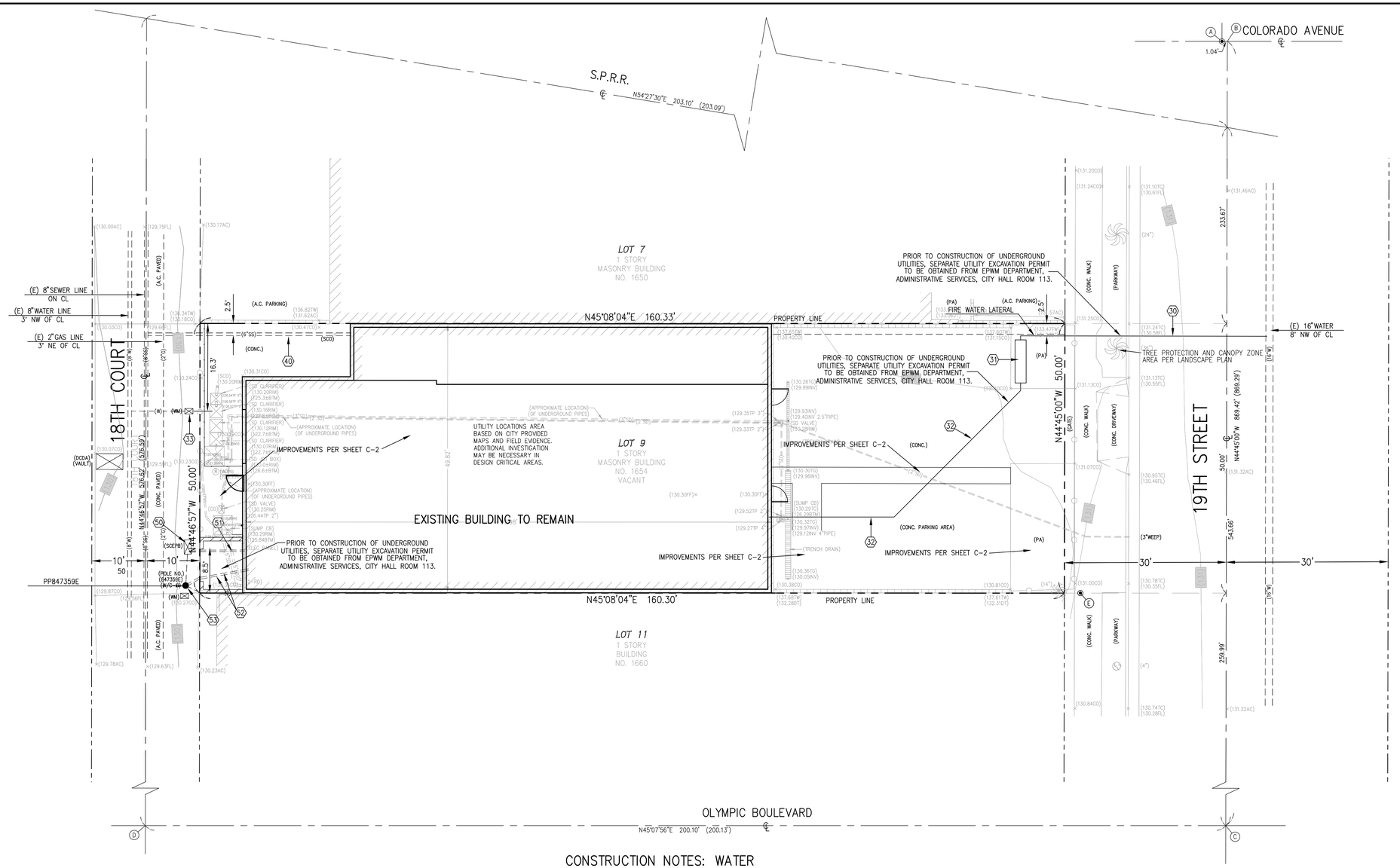
1654 19TH STREET, SANTA MONICA

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REVIEWED BY: DATE
DRAWN BY: DATE
CHECKED BY: DATE

C-3
JOB NO. 0930
RELEASE DATE: JUNE 2010

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CONSTRUCTION NOTES: WATER

30 — CONSTRUCT FIRELINE IN RIGHT OF WAY PER WATER DEPT
31 — CONSTRUCT FDC AND DETECTOR CHECK PER SEPARATE FIRELINE PLANS AND PERMIT
32 — FIRE LINE LOCATION PER ARCHITECT AND FIRELINE CONSULTANT
33 — EXISTING WATER METER

CONSTRUCTION NOTES: SEWER

40 — EXISTING SEWER LINE TO REMAIN

CONSTRUCTION NOTES: ELECTRICAL

50 — EXISTING SCE PULL BOX TO REMAIN
51 — CONSTRUCT 2–4" DIA. CONDUITS FOR SCE ELECTRICAL SERVICE
52 — CONSTRUCT 2–4" CONDUITS ONE EACH FOR TIME WARNER AND VERIZON, PULLS TO COME OFF OF SCE POLE
53 — EXISTING SCE POWER POLE TO REMAIN

CONTRACTOR NOTE:

GENERAL CONTRACTOR TO COORDINATE WITH THE CITY OF SANTA MONICA INFORMATION SYSTEMS DEPARTMENT FOR CITIES FIBER OPTIC CABLE LOCATION. PENETRATION OF FIBER OPTIC CABLE AT WEST FACING SIDE OF STRUCTURE. GENERAL CONTRACTOR SHALL PROVIDE CORING OF CMU WHERE FIBER OPTIC ENTERS STRUCTURE.

GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1 inch = 10 ft.

LEGEND:

AL	AREA LIGHT
AC	ASPHALT
BFD	BACKFLOW DEVICE
BW	BACK OF WALK
CB	CATCH BASIN
CONC	CONCRETE
CF	CURB FACE
CTV	CABLE TELEVISON
DCD	DOUBLE CHECK DETECTOR
DS	DOWNSPOUT
FDC	FIRE DEPT. CONNECTION
FF	FINISHED FLOOR
FL	FLOWLINE
FS	FINISHED SURFACE
GB	GRADE BREAK
GTE	GENERAL TELEPHONE
NG	NATURAL GRADE
PB	PULL BOX
PIV	POST INDICATOR VALVE
PM	PARKING METER
SCE	SO. CAL. EDISON
SCO	SEWER CLEAN OUT
SD	STORM DRAIN
SL	STREET LIGHT
SS	SANITARY SEWER
TC	TOP OF CURB
TS	TRAFFIC SIGNAL
TW	TOP OF WALL±
WM	WATER METER
WV	WATER VALVE
XFMR	ELECTRIC TRANSFORMER
	FIRE HYDRANT
	STREET SIGN
	CONCRETE WHEEL STOP
	CONCRETE BLOCK WALL
	FOUND MONUMENT PER P.M. 89-185
(X)	EXISTING
(X)	EXISTING CONTOUR
X	PROPOSED CONTOUR
X%	DIRECTION & RATE OF FLOW
	PROPOSED ST. LIGHT PER CITY STDS.
	DIRECTION & RATE OF FLOW
	PARKING LOT LIGHT PER ARCHITECTS PLAN
(E)	EXISTING

LIGHT DELINEATION SHOWN HEREON INDICATES EXISTING
BOLD DELINEATION SHOWN HEREON INDICATES PROPOSED CONST.

DETECTABLE WARNINGS PER ARCHITECT'S PLAN

T — TRANSFORMER

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NO.	DATE	DESCRIPTION OF REVISION

PREPARED FOR:
CITY OF SANTA MONICA
1685 MAIN ST.
SANTA MONICA, CA 90401
(310) 458–8411

PREPARED BY:
THE G4 GROUP INC. Consulting Engineers
165 EAST HIGH STREET, SUITE 203
MOORPARK, CA 93021
PHONE: (805) 523-0010 FAX: (805) 553-0626

CIVIL ENGINEER:
REGISTERED PROFESSIONAL ENGINEER — MARK ROGERS — No. 42848 Exp. 03/10 — CIVIL — STATE OF CALIFORNIA
42848
MARK ROGERS — R.C.E. NO. — DATE

UTILITY PLAN

1654 19TH STREET, SANTA MONICA

LOT 9, BLOCK 12, ERKENBRECHER SYNDICATE, M.B. 6–26/27
IN THE CITY OF SANTA MONICA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

REVIEWED BY:	DATE
DRAWN BY:	DATE
CHECKED BY:	DATE

C-4
JOB NO. 0930
RELEASE DATE: OCTOBER 2009

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SANTA MONICA CITY TV
1654 19TH ST
SANTA MONICA, CA 90404
INFORMATION TECHNOLOGY AND SECURITY INFRASTRUCTURE

RESPONSIBLE PARTY: / ITEM OR SERVICE:	LOW VOLTAGE CABLE CONTRACTOR	ELECTRICAL CONTRACTOR	GENERAL CONTRACTOR	OWNER
NOTE: SCHEDULE IS FOR REFERENCE ONLY – CONFIRM RESPONSIBILITIES WITH GENERAL CONTRACTOR				
TELECOM FACE PLATES SUPPLIED AND INSTALLED BY:	X			
BACK BOXES SUPPLIED AND INSTALLED BY:		X		
CONDUIT SUPPLIED AND INSTALLED BY:		X		
CONDUIT STUBS INSTALLED BY:		X		
CABLE TRAY SUPPLIED AND INSTALLED BY:		X		
LADDER RACK IN COMM ROOMS SUPPLIED AND INSTALLED BY:	X			
ANCILLARY CABLE SUPPORT SYSTEMS SUPPLIED AND INSTALLED BY:	X			
PLYWOOD BACKBOARD SUPPLIED AND INSTALLED BY:				X
AC DUPLEX OUTLETS SUPPLIED AND INSTALLED BY:		X		X
AC POWER TO RACKS INSTALLED BY:		X		
GROUNDING CABLE INSTALLED BY:		X		
AC POWER WITHIN RACKS INSTALLED BY:	X			
EQUIPMENT RACKS SUPPLIED AND INSTALLED BY:	X			
CORING PROVIDED BY:		X		
SLEEVES AND EXPANSION JOINTS SUPPLIED AND INSTALLED BY:		X		
SURFACE RACEWAY SUPPLIED AND INSTALLED BY:		X		
TELECOM CABLING (COPPER AND FIBER) SUPPLIED AND INSTALLED BY:	X			
PULL BOXES SUPPLIED AND INSTALLED BY:		X		
COMM. ROOM GROUNDING BUS BAR SUPPLIED AND INSTALLED BY:	X			
MAIN GROUNDING BUS BAR SUPPLIED AND INSTALLED BY:		X		
TELECOM CONNECTORS SUPPLIED AND INSTALLED BY:	X			
CROSS CONNECT AND PATCHING HARDWARE SUPPLIED AND INSTALLED BY:	X			
ACTIVE DATA ELECTRONICS SUPPLIED AND INSTALLED BY:			X	
ACTIVE TELECOM ELECTRONICS SUPPLIED AND INSTALLED BY:			X	
TELECOM RELATED FIRE STOPPING SUPPLIED AND INSTALLED BY:	X			

1 SCHEDULE OF RESPONSIBILITIES

SCALE: NONE

SHEET INDEX

Sheet Number	Sheet Title
IT–000	COVER PAGE
IT–001	SYMBOLS AND LEGENDS SHEET
IT–002	INTERIOR CABLING DETAILS
IT–540	TELECOM GROUNDING AND BONDING SCHEMATIC SHEET
IT–600	FIRST FLOOR PLAN
IT–601	ATTIC – MECHANICAL AREA FLOOR PLAN
IT–401	ATTIC – MECHANICAL AREA LEVEL TELECOM ROOM
IT–402	BACKBONE CABLE PATHWAY

GENERAL NOTES

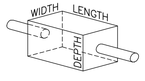
1. THESE DRAWINGS ARE SCHEMATIC AND SHOW THE RELATIONSHIP BETWEEN DEVICES AND CONDUIT. THIS IS NOT A CONDUIT DESIGN. ALL ITEMS NEEDED FOR A COMPLETE INSTALLATION MAY NOT BE SHOWN.
2. INSTALLATION MUST COMPLY WITH EIA/TIA STANDARDS 568 (CABLING), 569 (PATHWAYS AND SPACES), 606 (ADMINISTRATIVE), AND 607 (GROUNDING AND BONDING); BICSI INSTALLATION METHODOLOGIES. IN CASE OF CONFLICT AMONG DOCUMENTS CITED, THE MOST STRINGENT REQUIREMENT WILL BE FOLLOWED.
3. COORDINATE EXACT DEVICE LOCATIONS WITH ARCHITECT AND OWNER. ALL BOXES SHOWN FOR COUNT PURPOSES ONLY, ARCHITECT DETERMINES EXACT LOCATION.
4. MOUNTING HEIGHTS INDICATED ARE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
5. NO MORE THAN 8" CABLE SAG ALLOWED BETWEEN CABLE SUPPORTS.
6. ALL CONDUIT TO BE PROVIDED WITH PULL STRINGS.
7. ALL CONDUIT STUBS TO BE PROVIDED WITH PLASTIC BUSHINGS.
8. ALL CONDUIT SHALL BE EMT, GALVANIZED STEEL UNLESS OTHERWISE NOTED BY MEP.
9. COORDINATE VERTICAL ELEVATION OF ALL PATHWAY SECTIONS, INCLUDING WALL PENETRATIONS. TRANSITIONS TO BE KEPT AT MINIMUM DISTANCES, 2" MAXIMUM. IF FIELD CONDITIONS DO NOT PERMIT THEN USE A CONDUIT WATER FALL. (SEE DETAILS)
10. CONDUIT ROUTING INDICATED ON DRAWINGS IS DIAGRAMMATIC. ALL BEND RADII, PULL BOX REQUIREMENTS, SWEEP ANGLES, ETC. ARE TO BE PER EIA/TIA STANDARD 569.
11. MIN BEND RADIUS OF SWEEP ELL DETERMINED BY THE TYPE AND DIAMETER OF CABLE TO BE INSTALLED
    11.1. FIBER OPTIC CABLE MINIMUM RADIUS 20x CABLE DIA.
    11.2. COPPER CABLE MIN BEND RADIUS 10x CABLE DIA.
12. ALIGN MULTIPLE CONDUITS IN SINGLE ROW ALONG WALL UON
13. SEE AUDIO VISUAL PLAN SET FOR FINAL LOCATION AND COUNT OF IT DROPS REQUIRED BY AUDIO VISUAL EQUIPMENT.
14. ALL RACKS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS USING FASTENERS ADEQUATE FOR THE ANTICIPATED LOAD.
15. EXISTING SECURITY SYSTEMS DOOR CONTACTS AND WIRING MUST BE KEPT INTACT FOR FUTURE USE.

PULL BOX SIZING

CONDUIT TRADE SIZE		WIDTH		LENGTH		DEPTH		WIDTH INCREASE FOR ADDITIONAL CONDUIT	
MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
27	1	102	4	406	16	76	3	51	2
35	1–1/4	152	6	508	20	76	3	76	3
41	1–1/2	203	8	686	27	102	4	102	4
53	2	203	8	914	36	102	4	127	5
63	2–1/2	254	10	1067	42	127	5	152	6
78	3	305	12	1219	48	127	5	152	6
91	3–1/2	305	12	1372	54	152	6	152	6
103	4	381	15	1524	60	203	8	203	8

SPLICE BOX SIZING

CONDUIT TRADE SIZE		WIDTH		LENGTH		DEPTH		WIDTH INCREASE FOR ADDITIONAL CONDUIT	
MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
27	1	300	12	810	32	100	4	75	3
35	1–1/4	355	14	915	36	125	5	100	4
41	1–1/2	450	18	990	39	150	6	100	4
53	2	500	20	1065	42	175	7	125	5
63	2–1/2	610	24	1220	48	200	8	150	6
78	3	760	30	1375	54	225	9	150	6
91	3–1/2	915	36	1525	60	255	10	175	7
103	4	1065	42	1675	66	275	11	175	7



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studio **bau:ton**
AUDIOVISUAL FACILITIES

NO	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	PLAN CHECK	JLM	06/04/09				
2	PLAN CHECK	JLM	10/09/09				

KEYPLAN

nonzero\architecture
PETER GRUENEISEN,FAIA

1528 B CLOVERFIELD BOULEVARD
SANTA MONICA CALIFORNIA 90404

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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
PROJECT

CITY OF SANTA MONICA
PROJECT NO. 6619

COVER PAGE
DRAWING

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CITY OF SANTA MONICA
PROJECT NO. 6619

DRAWING
SYMBOLS AND LEGENDS SHEET

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IT-TELECOM DROP (SUPPLEMENTAL SYMBOL)

POKE THROUGH — # SUBSCRIPT
WALL DROP — SUBSCRIPT # ▶
CEILING DROP — # SUBSCRIPT
FLOOR BOX COMPONENT — # SUBSCRIPT

GENERAL SYMBOLS: IT-TELECOM DROP ▶ | IT-EQUIPMENT TERMINATION DROP ▶ | IT-WALL PHONE ▷

PATHWAY PENETRATION (LOOKING AT SECTION): ACCESSIBLE # ○ SUBSCRIPT | PASS THROUGH # ● SUBSCRIPT | FIRE RATED # ⊗ SUBSCRIPT | NON-FIRE RATED
PATHWAY PENETRATION (LOOKING AT SIDE): FIRE RATED # SUBSCRIPT | NON-FIRE RATED # SUBSCRIPT

LADDER RACK — SECTION VIEW | TOP VIEW
CABLE TRAY — TOP VIEW
D-RINGS — TOP VIEW

MISCELLANEOUS USE BLOCK (XXX DENOTES MISC USE) — WALL MOUNT # XXX SUBSCRIPT | FLOOR MOUNT # XXX SUBSCRIPT | CEILING MOUNT # XXX SUBSCRIPT

SECURITY CAMERA — PAN TILT ZOOM # SUBSCRIPT | FIXED # SUBSCRIPT

101-1 AV
101-1 AV

-NOTES-
1. # USED TO NUMBER THE ITEM.
2. SUBSCRIPT IS USED TO DISTINGUISH SPECIAL TYPE.
3. SEE LIST OF ACRONYMS FOR DECODING OF SUBSCRIPT
4. GENERAL SYMBOLS GO INSIDE OF SUPPLEMENTARY SYMBOL (EX. A POKE THROUGH TRANSFORMS FROM A TELECOM TO A TELEPHONE SEE EXAMPLES TO LEFT.)

2 GENERAL SYMBOL LEGEND
SCALE: NOT TO SCALE

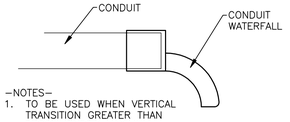
TELECOMMUNICATIONS

ACRONYM OR ABBREVIATION	DEFINITION	ACRONYM OR ABBREVIATION	DEFINITION
ABF	AIR BLOWN FIBER	MEP	MECHANICAL, ELECTRICAL, PLUMBING
ATM	ASYNCHRONOUS TRANSFER MODE	MH	MANHOLE (DUCT BANK)
AWG	AMERICAN WIRE GAUGE	MHz	MEGAHERTZ
AV	AV REQUIREMENT FOR TELECOM DROP. COORDINATE WITH AV PLANS	MM	MULTI-MODE FIBER OPTIC CABLE
BAS	BUILDING AUTOMATION SYSTEM	MuTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
BC	BACKBONE CABLE OR CABLING	NEC	NATIONAL ELECTRIC CODE
BCS	BUILDING CONTROL SYSTEM	OC	ON CENTER
BE	BOX ELIMINATOR	OC1	OPTICAL CARRIER-LEVEL 1 (51.84 Mbps FIBER OPTIC DATA CIRCUIT)
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL	OC3	OPTICAL CARRIER-LEVEL 3 (155.52 Mbps FIBER OPTIC DATA CIRCUIT)
BMS	BUILDING MANAGEMENT SYSTEM	OC12	OPTICAL CARRIER-LEVEL 12 (622.08 Mbps FIBER OPTIC DATA CIRCUIT)
BTU	BRITISH THERMAL UNIT	OSP	OUTSIDE PLANT (CABLING)
CATV	COMMUNITY ANTENNA TELEVISION	PBX	PRIVATE BRANCH EXCHANGE (TELEPHONE)
C	CONDUIT	PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE (SAME AS PBX)
CC	CROSS-CONNECT	PB	PULL BOX
CCTV	CLOSED-CIRCUIT TELEVISION	PBN	PANIC BUTTON
CKT	CIRCUIT	POP	POINT-OF- PRESENCE
CO	TELEPHONE COMPANY CENTRAL OFFICE	POTS	PLAIN OLD TELEPHONE SERVICE (2-WIRE, LOOP-START CIRCUIT)
CODEC	CODER/DECODER (ALSO INCORRECTLY CALLED COMPRESSOR / DECOMPRESSOR)	PR	PAIR
CP	CONSOLIDATION POINT	RCDD	REGISTERED CABLE DISTRIBUTION DESIGNER
CPE	CUSTOMER PREMISES EQUIPMENT	RF	RADIO FREQUENCY
CPU	CENTRAL PROCESSING UNIT	RFI	RADIO FREQUENCY INTERFERENCE
CR	CARD READER	RJ	REGISTERED JACK
CWDM	COARSE WAVELENGTH DIVISION MULTIPLEXING	RMS	RACK MOUNTING SPACE (1.75")
DCT	DOOR CONTACT	RU	RACK UNIT (1.75")
DEMARC	SERVICE PROVIDER DEMARCATION POINT	S	SECURITY REQUIREMENT. IF AVAILABLE SEE SECURITY SET FOR ADDITIONAL INFORMATION
DSL	DIGITAL SUBSCRIBER LINE	ScTP	SCREENED TWISTED-PAIR
DWDM	COARSE WAVELENGTH DIVISION MULTIPLEXING	SM	SINGLE-MODE FIBER OPTIC CABLE
E	COORDINATE WITH ELECTRICAL PLANS	SONET	SYNCHRONOUS OPTICAL NETWORK
EMC	ELECTROMAGNETIC COMPATIBILITY	SSF	SMALL FORM FACTOR FIBER OPTIC CONNECTOR
EMI	ELECTROMAGNETIC INTERFERENCE	STP	SHIELDED TWISTED-PAIR CABLE
EMR	ELECTROMAGNETIC RADIATION	T1	1.544 Mbps DATA CIRCUIT
ER	EQUIPMENT ROOM	T3	44.736 (45) Mbps DATA CIRCUIT
ES	ELECTRONIC DOOR STRIKE	TBB	TELECOMMUNICATIONS BONDING BACKBONE
ELV	ELEVATOR EMERGENCY PHONE	TBBIBC	TELECOMMUNICATIONS BONDING BACKBONE INTERCONNECTING BONDING CONDUCTOR
FA	FIRE ALARM	TC / TELECOM	TELECOMMUNICATIONS
FDI	FIBER DISTRIBUTION DATA INTERFACE	TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
FR	FRAM RELAY	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
GHz	GIGAHERTZ	TR	TELECOMMUNICATIONS ROOM
HC	HORIZONTAL CROSS-CONNECTION	TP	TRANSITION POINT
HH	HAND HOLE (DUCT BANK)	TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
ICC	INTERMEDIATE CROSS-CONNECT	UG	UNDERGROUND
IDC	INSULATION DISPLACEMENT CONNECTION	UON	UNLESS OTHER WISE NOTED
IDF	INTERMEDIATE DISTRIBUTION FRAME (ALSO SEE "HC")	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	USOC	UNIVERSAL SERVICE ORDER CODE
ISDN	INTEGRATED SERVICES DIGITAL NETWORK	UTP	UNSHIELDED TWISTED-PAIR CABLE
KSU	KEY SYSTEM UNIT (TELEPHONE)	VRW	VERTICAL RACEWAY
LAN	LOCAL AREA NETWORK	WAO	WORK AREA INFORMATION OUTLET
MAN	METROPOLITAN AREA NETWORK	WAN	WIDE AREA NETWORK
MC	MAIN CROSS-CONNECT	WAP	WIRELESS ACCESS POINT
MD	MOTION DETECTOR	WP	WEATHER PROOF
MDF	MAIN DISTRIBUTION FRAME		

FIBER OPTIC ACRONYMS AND INFORMATION

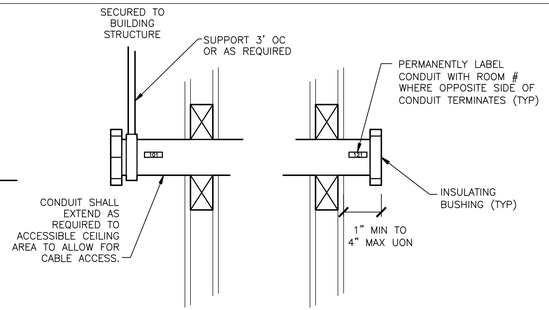
FIBER OPTIC CABLE TYPE AND CABLE SHEATH COLOR		
MM	MULTI-MODE, STANDARD PERFORMANCE	ORANGE
MM	MULTI-MODE, LASER-OPTIMIZED, OM3	AQUA
SM	SINGLE-MODE	YELLOW
FIBER OPTIC CONNECTOR PERFORMANCE TYPE AND BACK REFLECTION		
APC	ANGLED PHYSICAL CONTACT	-65 DB
PC	PHYSICAL CONTACT	-40 DB
SPC	SUPER-PHYSICAL CONTACT	-45 DB
UPC	ULTRA-PREMIUM CONTACT	-55 DB
FIBER OPTIC CONNECTOR COLOR CODE		
MM	BEIGE	
SM	BLUE	
SM APC	GREEN	

1 LIST OF ACRONYMS / SUBSCRIPT KEY
SCALE: NOT TO SCALE



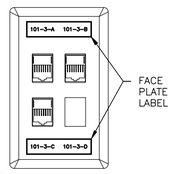
–NOTES–
1. TO BE USED WHEN VERTICAL TRANSITION GREATER THAN RECOMMENDED MAXIMUM.

11 TYPICAL CONDUIT WATERFALL DETAIL
SCALE: NOT TO SCALE



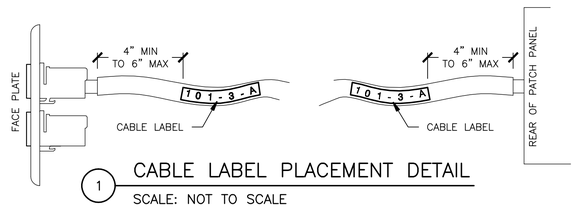
–NOTES–
1. LABEL CONDUIT THAT PENETRATES FLOOR LEVEL OR MULTIPLE WALLS.
2. SEE DETAILS FOR OTHER CONDUIT LABEL SITUATIONS

8 MISC CONDUIT DETAIL
SCALE: NOT TO SCALE



–NOTE–
1. INSTALL BLANK FILLER PLATE IF JACK POSITION IS NOT USED
2. FOR REFERENCE ONLY. SEE SPEC OR CABLE PULL SCHEDULE FOR ACTUAL FACEPLATE LAYOUT

5 FACEPLATE LABEL DETAIL
SCALE: NOT TO SCALE



1 CABLE LABEL PLACEMENT DETAIL
SCALE: NOT TO SCALE

LABEL CONVENTION:

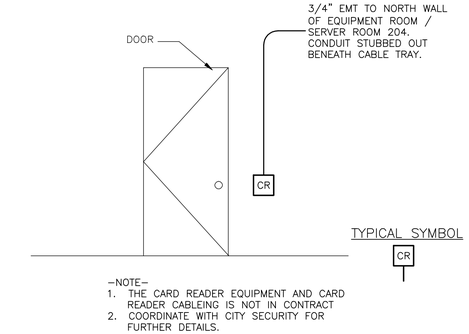
"ROOM # – FACE PLATE # – CABLE X/JACK X"

EXAMPLE:

101–3–A

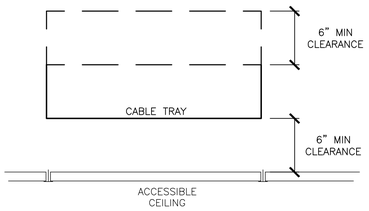
- A: CABLE A / JACK A
- 3: FACE PLATE #3
- 101: ROOM 101

2 LABEL NOMENCLATURE DETAIL
SCALE: NOT TO SCALE



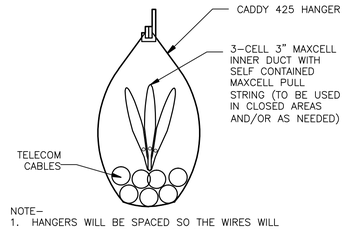
–NOTE–
1. THE CARD READER EQUIPMENT AND CARD READER CABLEING IS NOT IN CONTRACT
2. COORDINATE WITH CITY SECURITY FOR FURTHER DETAILS.

13 TYPICAL CARD READER SCHEMATIC
SCALE: NOT TO SCALE



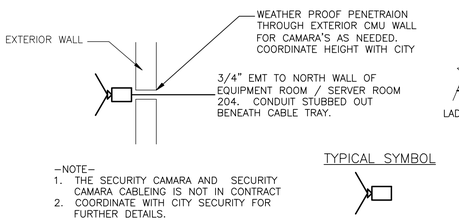
–NOTES–
1. IF SPACE NOT PERMITTED FOR CABLE TRAY USE TYPICAL HANGER ASSEMBLY FOR PATHWAYS

6 TYPICAL CABLE TRAY REQUIREMENTS DETAIL
SCALE: NOT TO SCALE



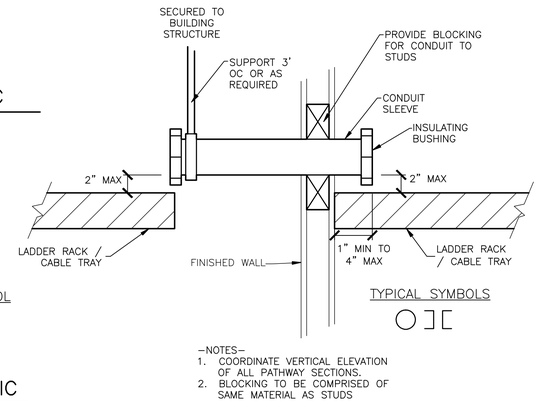
NOTE–
1. HANGERS WILL BE SPACED SO THE WIRES WILL NOT HAVE MORE THAN 8" DROOP IN THE LINE
2. SECURE TO BUILDING STRUCTURE

3 TYPICAL HANGER ASSEMBLY DETAIL
SCALE: NOT TO SCALE



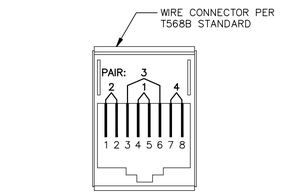
–NOTE–
1. THE SECURITY CAMARA AND SECURITY CAMARA CABLEING IS NOT IN CONTRACT
2. COORDINATE WITH CITY SECURITY FOR FURTHER DETAILS.

14 TYPICAL SECURITY CAMARA SCHEMATIC
SCALE: NOT TO SCALE



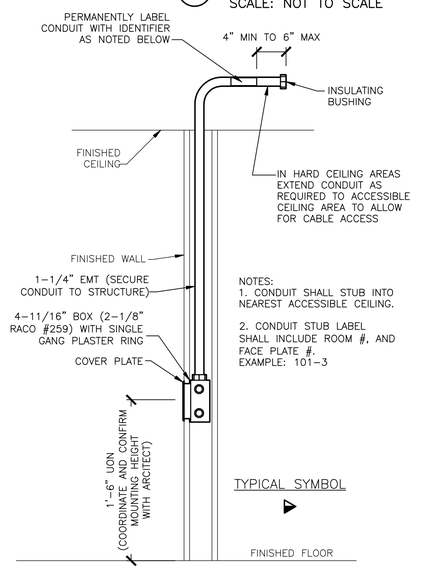
–NOTES–
1. COORDINATE VERTICAL ELEVATION OF ALL PATHWAY SECTIONS.
2. BLOCKING TO BE COMPRISED OF SAME MATERIAL AS STUDS

9 TYPICAL CONDUIT PATHWAY TRANSITION DETAIL
SCALE: NOT TO SCALE



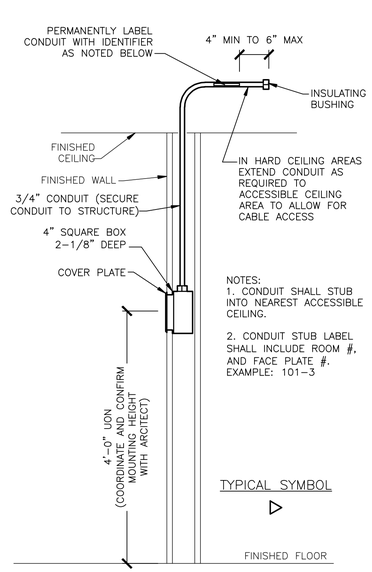
–NOTE–
1. PAIR 1: BLU/WH
2. PAIR 2: ORG/WH
3. PAIR 3: GRN/WH
4. PAIR 4: BRN/WH

4 TYPICAL PIN OUT DETAIL
SCALE: NOT TO SCALE



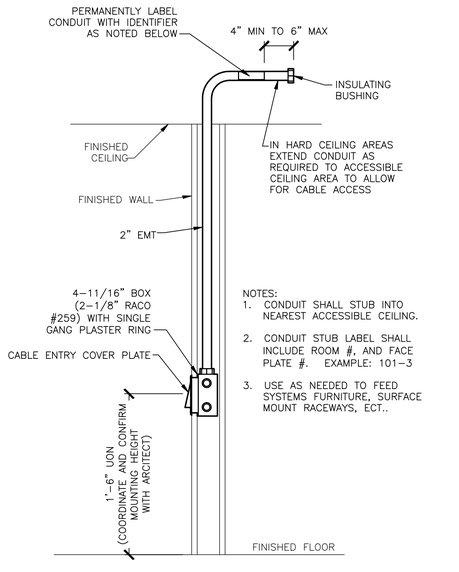
NOTES:
1. CONDUIT SHALL STUB INTO NEAREST ACCESSIBLE CEILING.
2. CONDUIT STUB LABEL SHALL INCLUDE ROOM #, AND FACE PLATE #. EXAMPLE: 101–3

12 TYPICAL TELE / DATA WALL DETAIL
SCALE: NOT TO SCALE



NOTES:
1. CONDUIT SHALL STUB INTO NEAREST ACCESSIBLE CEILING.
2. CONDUIT STUB LABEL SHALL INCLUDE ROOM #, AND FACE PLATE #. EXAMPLE: 101–3

10 TYPICAL WALL PHONE DETAIL
SCALE: NOT TO SCALE



NOTES:
1. CONDUIT SHALL STUB INTO NEAREST ACCESSIBLE CEILING.
2. CONDUIT STUB LABEL SHALL INCLUDE ROOM #, AND FACE PLATE #. EXAMPLE: 101–3
3. USE AS NEEDED TO FEED SYSTEMS FURNITURE, SURFACE MOUNT RACEWAYS, ECT..

7 TYPICAL CABLE FEED–THROUGH WALL DETAIL
SCALE: NOT TO SCALE

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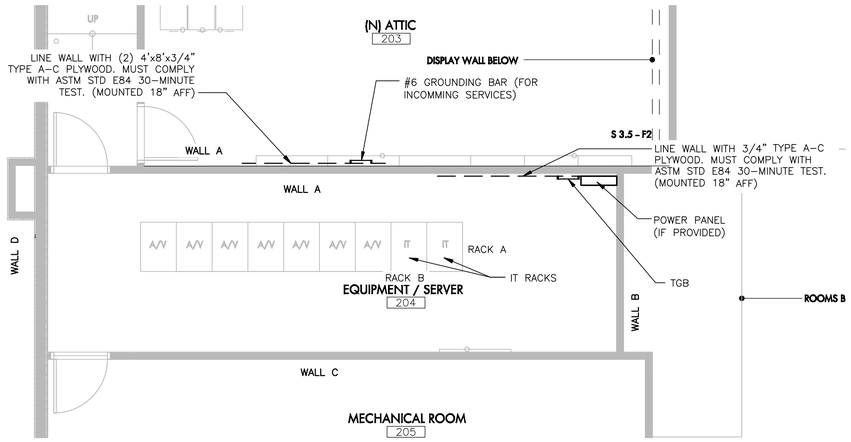
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PROJECT NO. 6619

DRAWING
INTERIOR CABLING DETAILS

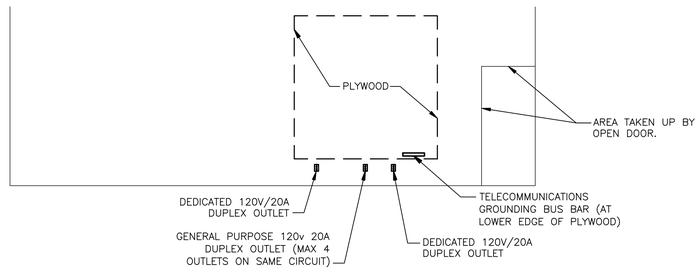
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	EJS REVIEWED	IT–002
	AS SHOWN SCALE	DRAWING NO.



2 EQUIPMENT / SERVER 204 FLOOR PLAN

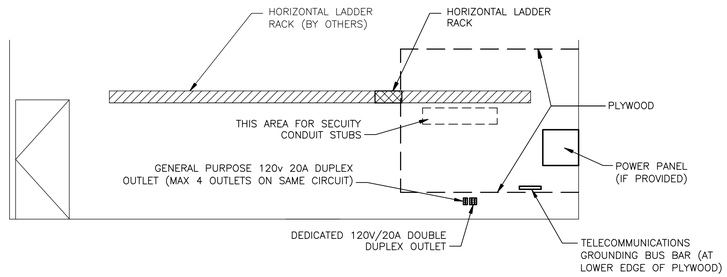
SCALE: 1/4" = 1'-0"

-NOTE-
1. COORDINATE FINAL LAYOUT OF EQUIPMENT SERVER 204 WITH ARCHITECT AND AV SET



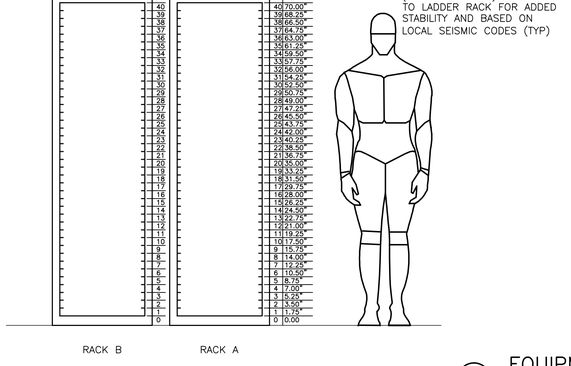
8 (N) ATTIC 203 WALL A ELEVATION

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



3 EQUIPMENT / SERVER 204 WALL A ELEVATION

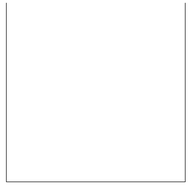
SCALE: 1/4" = 1'-0"



-NOTE-
1. AC OUTLETS MOUNTED ON SIDE OF LADDER RACK
2. OUTLETS WIRED ON SEQUENTIAL AND SEPARATE PHASES FOR EACH RACK

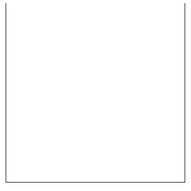
7 RACK ELEVATION

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



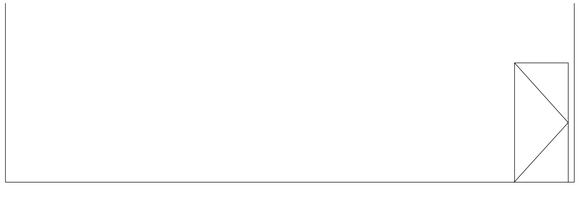
6 EQUIPMENT / SERVER 204 WALL D ELEVATION

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



4 EQUIPMENT / SERVER 204 WALL B ELEVATION

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



5 EQUIPMENT / SERVER 204 WALL C ELEVATION

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

0 1'-4" 2'-8" 5'-4"
Scale: 3/4"=1'-0"

0 4' 8' 16'
Scale: 1/4"=1'-0"

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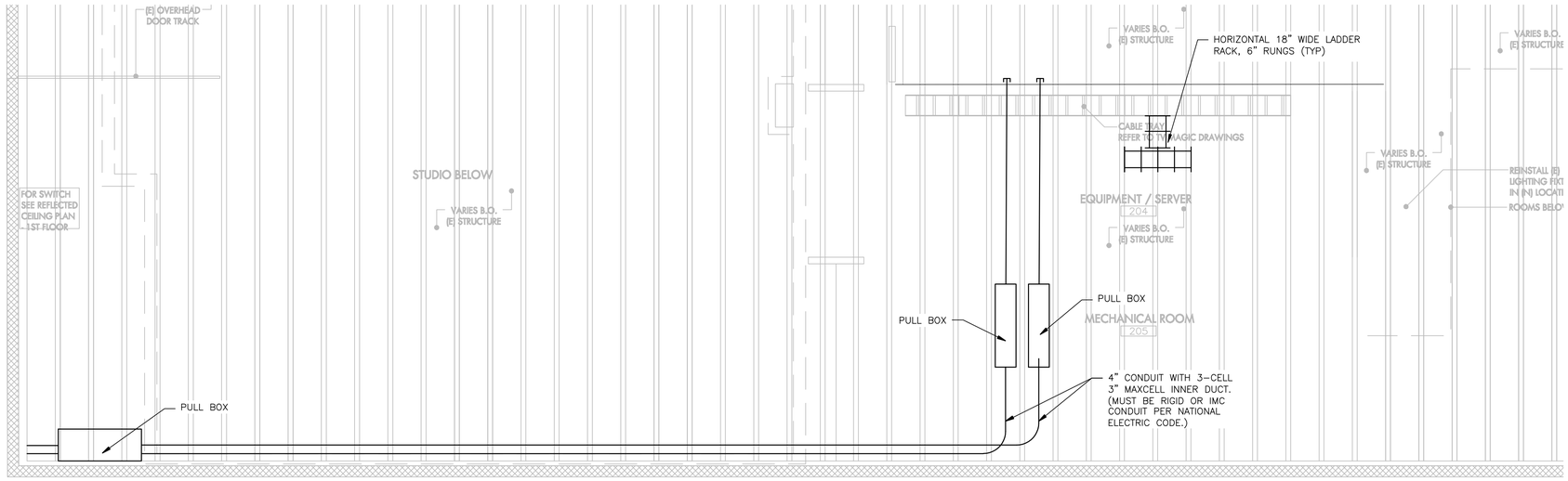
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CITY OF SANTA MONICA
PROJECT NO. 6619

DRAWING
ATTIC - MECHANICAL AREA LEVEL TELECOM ROOM

01.31.09 DATE	12-805 PROJECT NO.
JLM DRAWN	IT-401
EJS REVIEWED	
AS SHOWN SCALE	DRAWING NO.

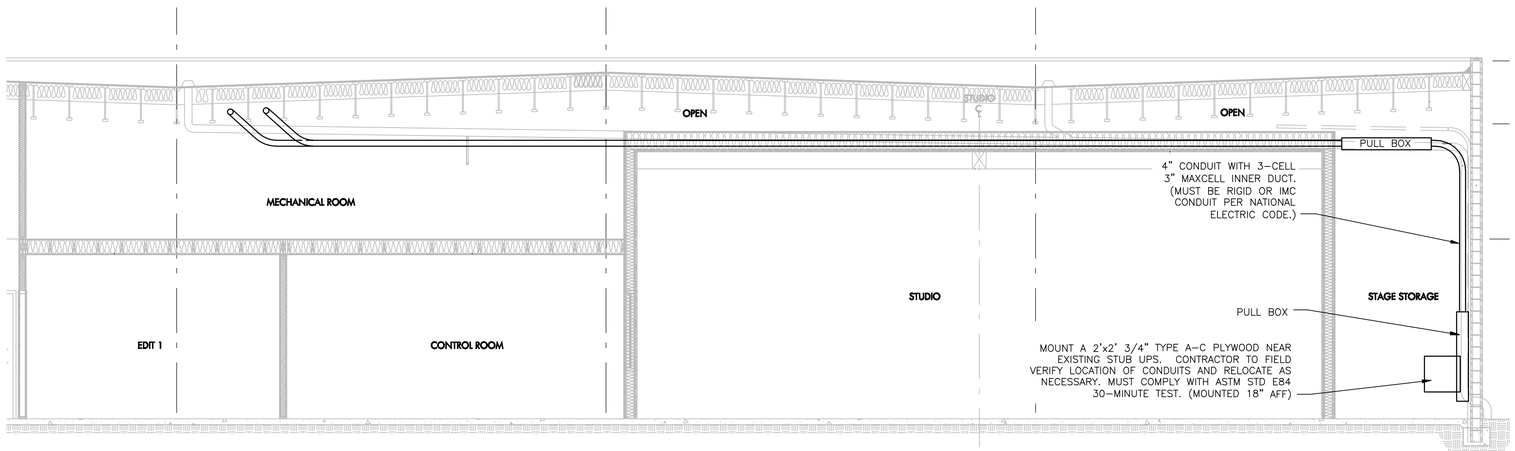
STAMP



1 BACKBONE CABLE ROUTING PLAN

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

-NOTE-
1. COORDINATE FINAL LAYOUT OF EQUIPMENT SERVER 204 WITH ARCHITECT AND AV SET



2 BACKBONE CABLE ROUTING ELEVATION

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

0 4' 8' 16'

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

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NO	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	PLAN CHECK	JLM	06/04/09				
2	PLAN CHECK	JLM	10/09/09				

KEYPLAN

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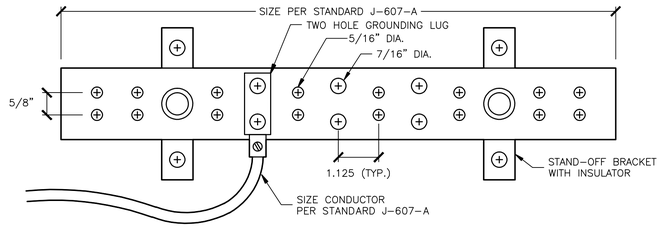
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PROJECT
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CITY OF SANTA MONICA
PROJECT NO. 6619

DRAWING
BACKBONE CABLE PATHWAY

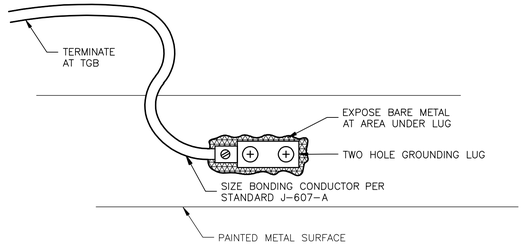
STAMP	01.31.09 DATE	12-805 PROJECT NO.
	JLM DRAWN	IT-402 DRAWING NO.
	EJS REVIEWED	
	AS SHOWN SCALE	



-NOTE-
1. BUS BAR MUST HAVE BICSI-COMPLIANT BOLT HOLE PATTERN.

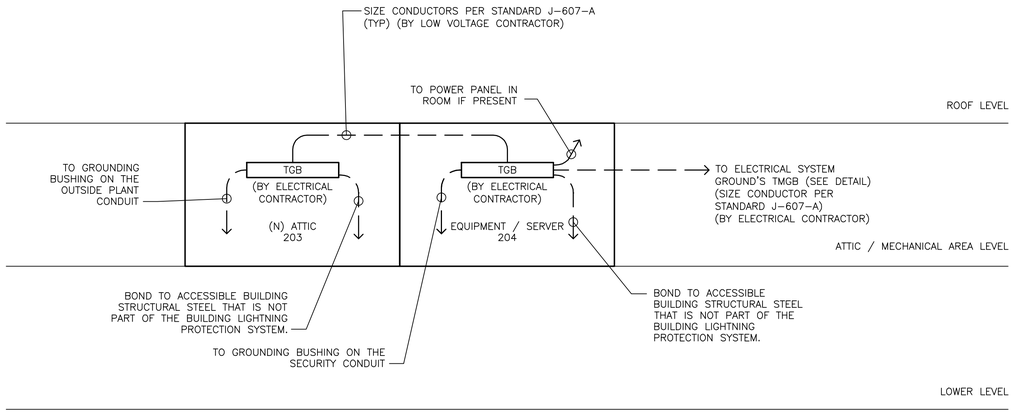
2 TYPICAL TELECOMMUNICATIONS GROUNDING BUS (TGB) BAR DETAIL

SCALE: NOT TO SCALE



1 TYPICAL GROUNDING DETAIL

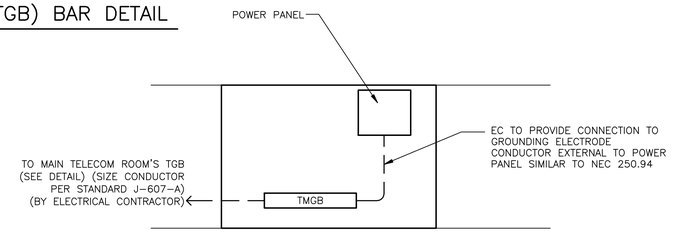
SCALE: NOT TO SCALE



-NOTES-
1. IF STRUCTURAL STEEL NOT ACCESSIBLE OR NOT PRESENT DELETE REQUIREMENT TO GROUND BUS BAR TO STRUCTURAL STEEL

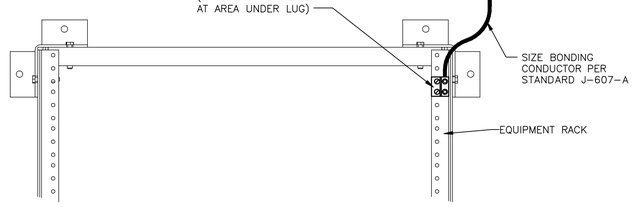
3 BUILDING GROUNDING BUS BAR SCHEMATIC

SCALE: NOT TO SCALE



4 MAIN ELECTRICAL SERVICE ENTRANCE TELECOM GROUND POINT SCHEMATIC

SCALE: NOT TO SCALE



-NOTES-
1. MOUNT LUG ON BACK OF RACK TO AVOID TAKING UP SPACE ALLOCATED FOR EQUIPMENT.

5 TYPICAL RACK GROUNDING DETAIL

SCALE: NOT TO SCALE

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2	PLAN CHECK	JLM	10/09/09				

KEYPLAN

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PROJECT

TELECOM GROUNDING AND BONDING SCHEMATIC SHEET

DRAWING

	01.31.09 DATE	12-805 PROJECT NO.
	JLM DRAWN	IT-540 DRAWING NO.
	EJS REVIEWED	
	AS SHOWN SCALE	

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AUDIOVISUAL FACILITIES



1 FIRST FLOOR PLAN

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

-GENERAL NOTES-
1. CARD READER EQUIPMENT, SECURITY CAMERAS, AND SECURITY EQUIPMENT IS NOT IN CONTRACT.
2. CABLING FOR CARD READER AND SECURITY CAMERAS IS NOT IN CONTRACT
3. CONTRACTOR TO COORDINATE HEIGHT OF SECURITY CAMERAS WITH CITY.
4. SEE DETAILS FOR INSTILLATION REQUIREMENTS OF SECURITY DEVICES.
5. SEE ATTIC / MECHANICAL LEVEL TELECOM ROOM SHEET FOR FURTHER SECURITY REQUIREMENTS

0 4' 8' 16'
Scale: 1/4"=1'-0"

NO	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE
1	PLAN CHECK	JLM	06/04/09				
2	PLAN CHECK	JLM	10/09/09				

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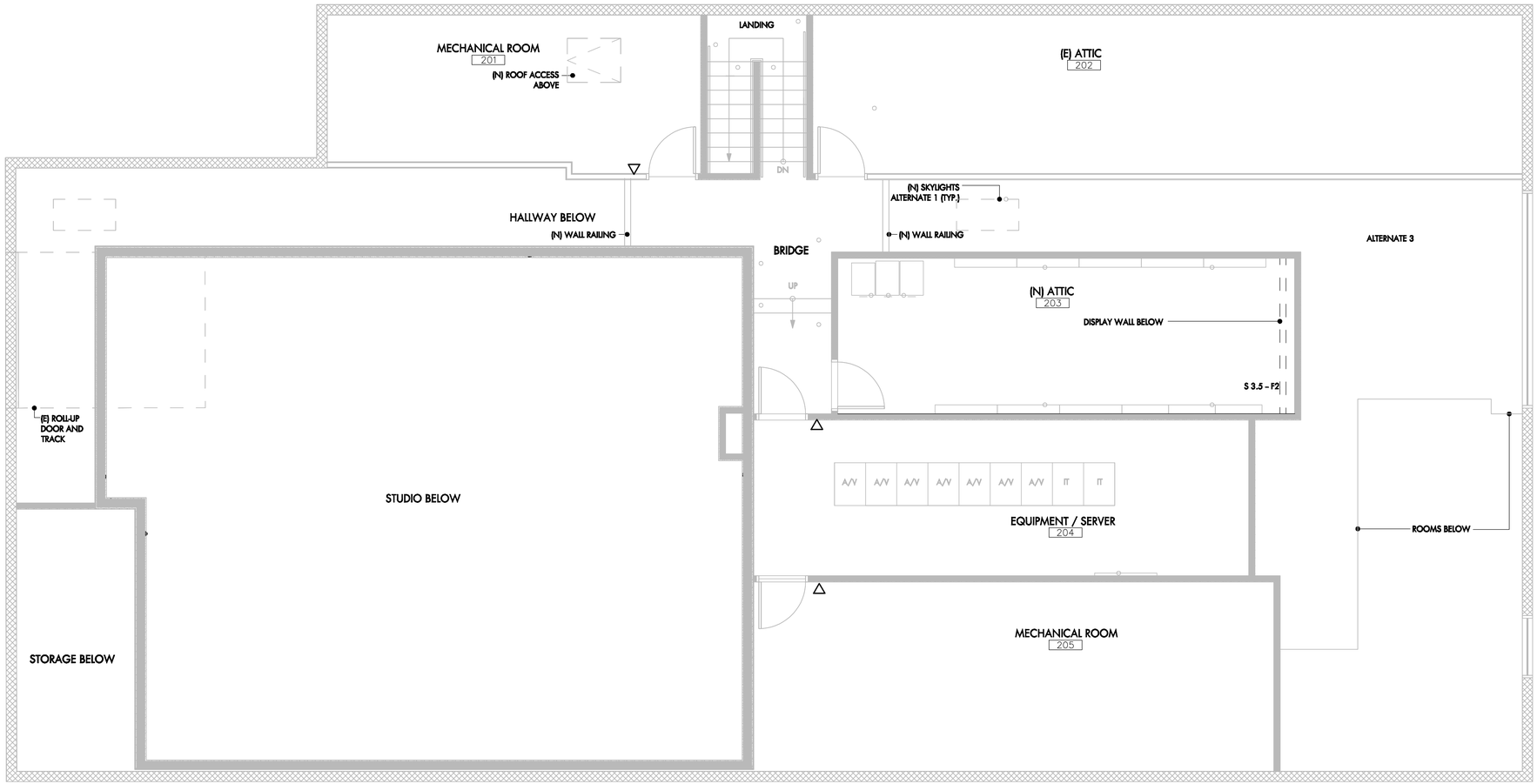
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DRAWING
FIRST FLOOR PLAN

STAMP	01.31.09 DATE	12-805 PROJECT NO.
	JLM DRAWN	IT-600 DRAWING NO.
	EJS REVIEWED	
	AS SHOWN SCALE	



1 ATTIC / MECHANICAL AREA FLOOR PLAN

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

0 4' 8' 16'

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

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2	PLAN CHECK	JLM	10/09/09				

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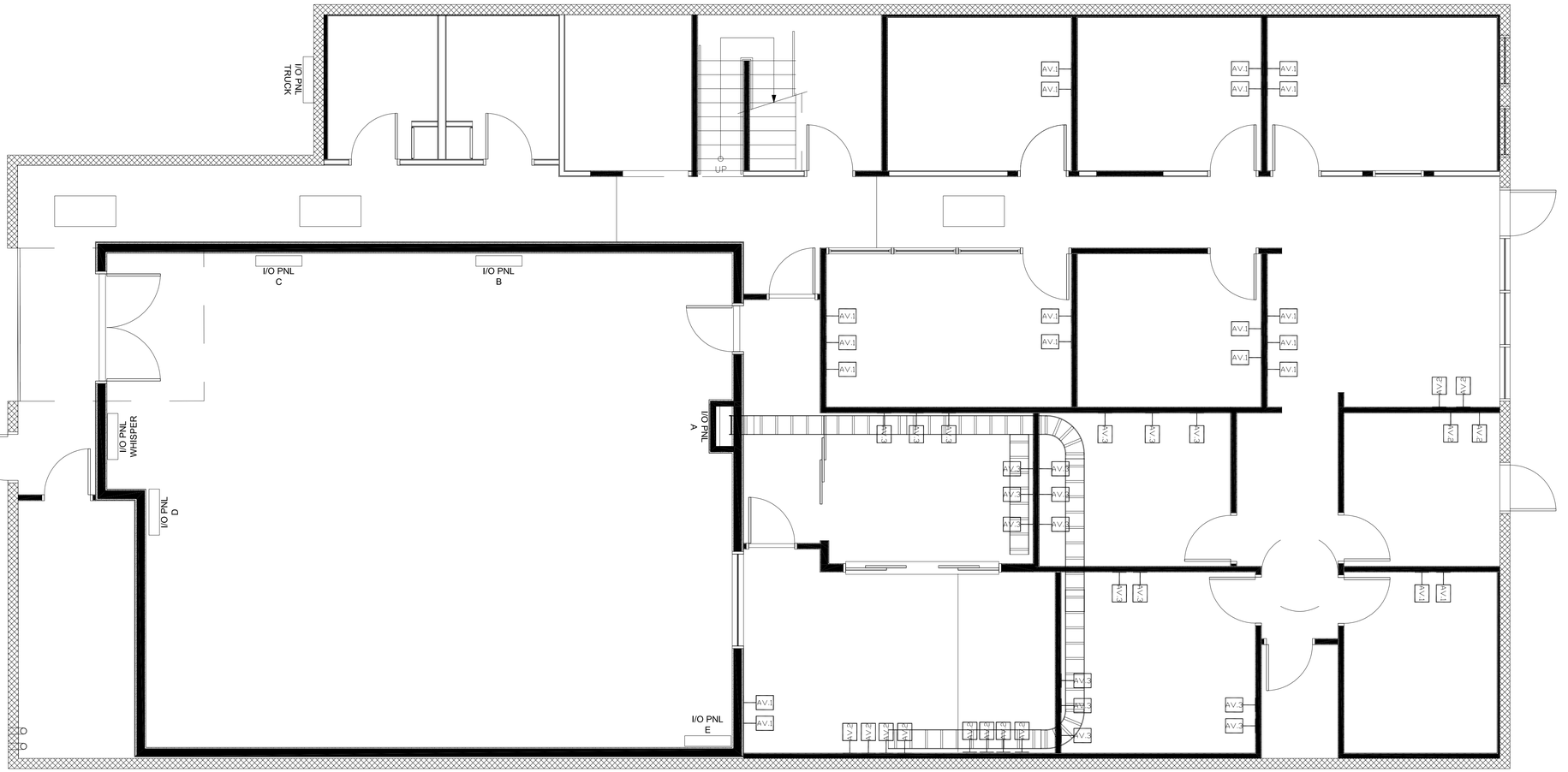
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CITY OF SANTA MONICA
PROJECT NO. 6619

DRAWING
ATTIC – MECHANICAL AREA FLOOR PLAN

STAMP	01.31.09 DATE	12-805 PROJECT NO.
	JLM DRAWN	IT-601
	EJS REVIEWED	
	AS SHOWN SCALE	DRAWING NO.

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NO	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE

KEYPLAN

AV.1 — 1" EMT CONDUIT TO CABLE TRAY W/CONDUIT BUSHING 4-11/16" SQUARE E.B., 1" KNOCKOUTS, DOUBLEGANG RING, 2-1/8" DEEP. @ LCD DISPLAY BACKING HEIGHT.

AV.2 — 1-1/4" EMT CONDUIT RISER TO CABLE TRAY W/CONDUIT BUSHING 4-11/16" SQUARE E.B., 1-1/4" KNOCKOUTS, DOUBLEGANG RING, 2-1/8" DEEP. @ STANDARD OUTLET HEIGHT.

AV.3 — 1" EMT CONDUIT RISER TO CABLE TRAY W/CONDUIT BUSHING 4-11/16" SQUARE E.B., 1" KNOCKOUTS, DOUBLEGANG RING, 2-1/8" DEEP. @ STANDARD OUTLET HEIGHT.

A — HOFFMAN TYPE 1 NEMA BOX PART#ASE12X12X10NK. INSTALLED RECESSED IN CABLE TRAY STUDIO RISER.

B — HOFFMAN TYPE 1 NEMA BOX PART#ASE12X12X10NK, SURFACE MOUNT. TWO 1-1/4" EMT CONDUIT RISER STUBBED OUT ABOVE GRID. TWO 3/4" EMT CONDUIT FOR FIBER OPTIC CABLING. MIN CONDUIT BEND RADIUS FOR 3/4" IS 8.24".

C — HOFFMAN TYPE 1 NEMA BOX PART#ASE12X12X10NK, SURFACE MOUNT. ONE 1-1/4" AND TWO 1" EMT CONDUIT RISER STUBBED OUT ABOVE GRID.

D — HOFFMAN TYPE 1 NEMA BOX PART#ASE12X12X10NK, SURFACE MOUNT. THREE 1-1/4" EMT CONDUIT RISER STUBBED OUT ABOVE GRID.

E — HOFFMAN TYPE 1 NEMA BOX PART#ASE12X12X10NK, SURFACE MOUNT. ONE 1-1/4" AND TWO 1" EMT CONDUIT RISER STUBBED OUT ABOVE GRID.

WH — HOFFMAN TYPE 1 NEMA BOX PART#ASE12X12X10NK, SURFACE MOUNT. TWO 1" EMT CONDUIT RISER STUBBED OUT ABOVE GRID.

TRUCK — HOFFMAN TYPE 3R NEMA BOX PART#A12R1210HCR, SURFACE MOUNT. TWO 1-1/2" AND TWO 1-1/4" TO THE MACHINE ROOM VIA THE MEZZ LEVEL. ONE 3/4" EMT CONDUIT FOR FIBER OPTIC CABLING. MIN CONDUIT BEND RADIUS FOR 3/4" IS 8.24". HOFFMAN TYPE 3R WIRING TROUGH'S WILL BE REQUIRED FOR EXTERIOR CONDUIT PATHS. USE HOFFMAN TYPE 3R PART#A8836RT WIRING TROUGH.

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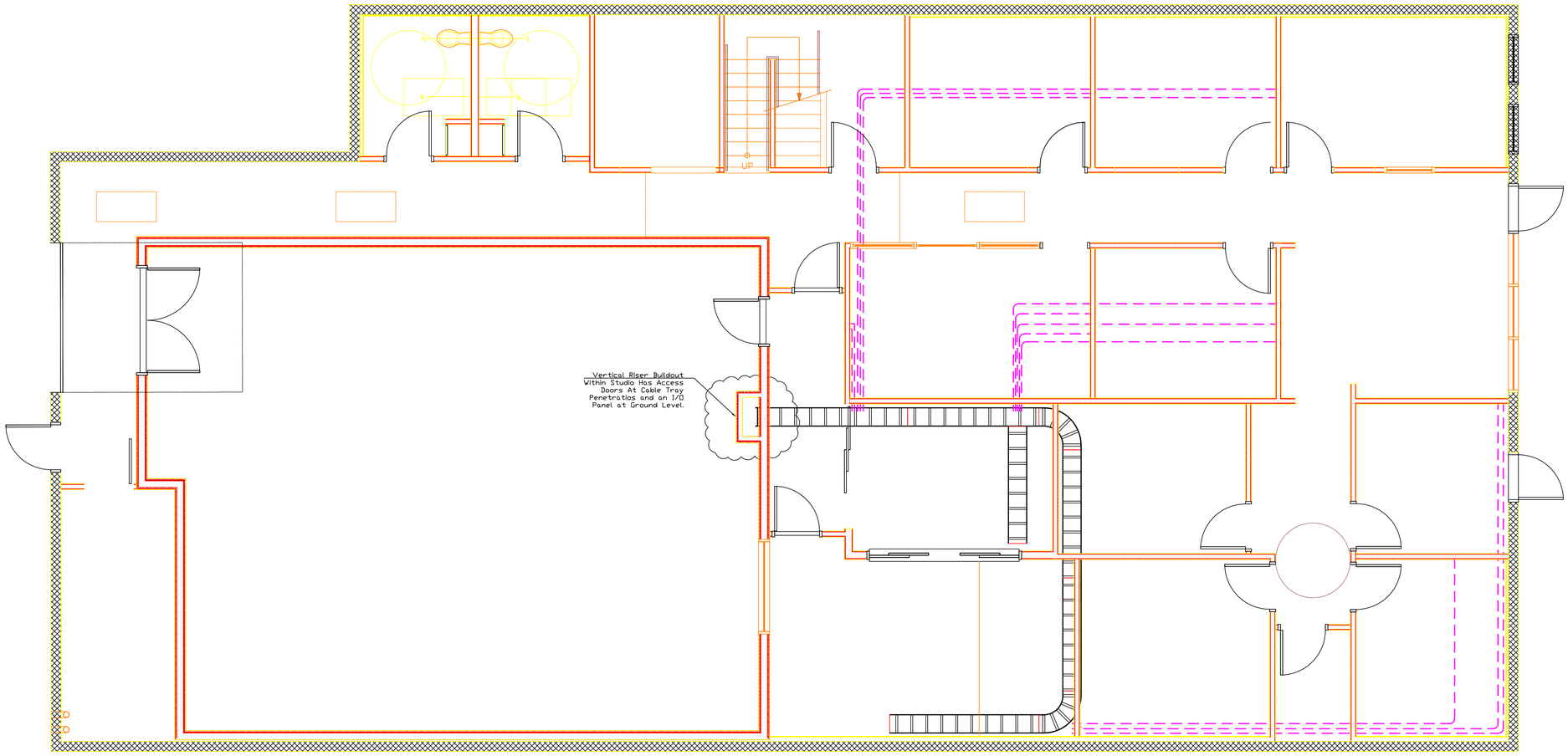
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DRAWING
AV INFRASTRUCTURE LAYOUT FIRST FLOOR

STAMP	06.02.09 DATE	12–805 PROJECT NO.
	– DRAWN	AV01
	– REVIEWED	
	1/4" = 1'-0" SCALE	DRAWING NO.

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PROJECT

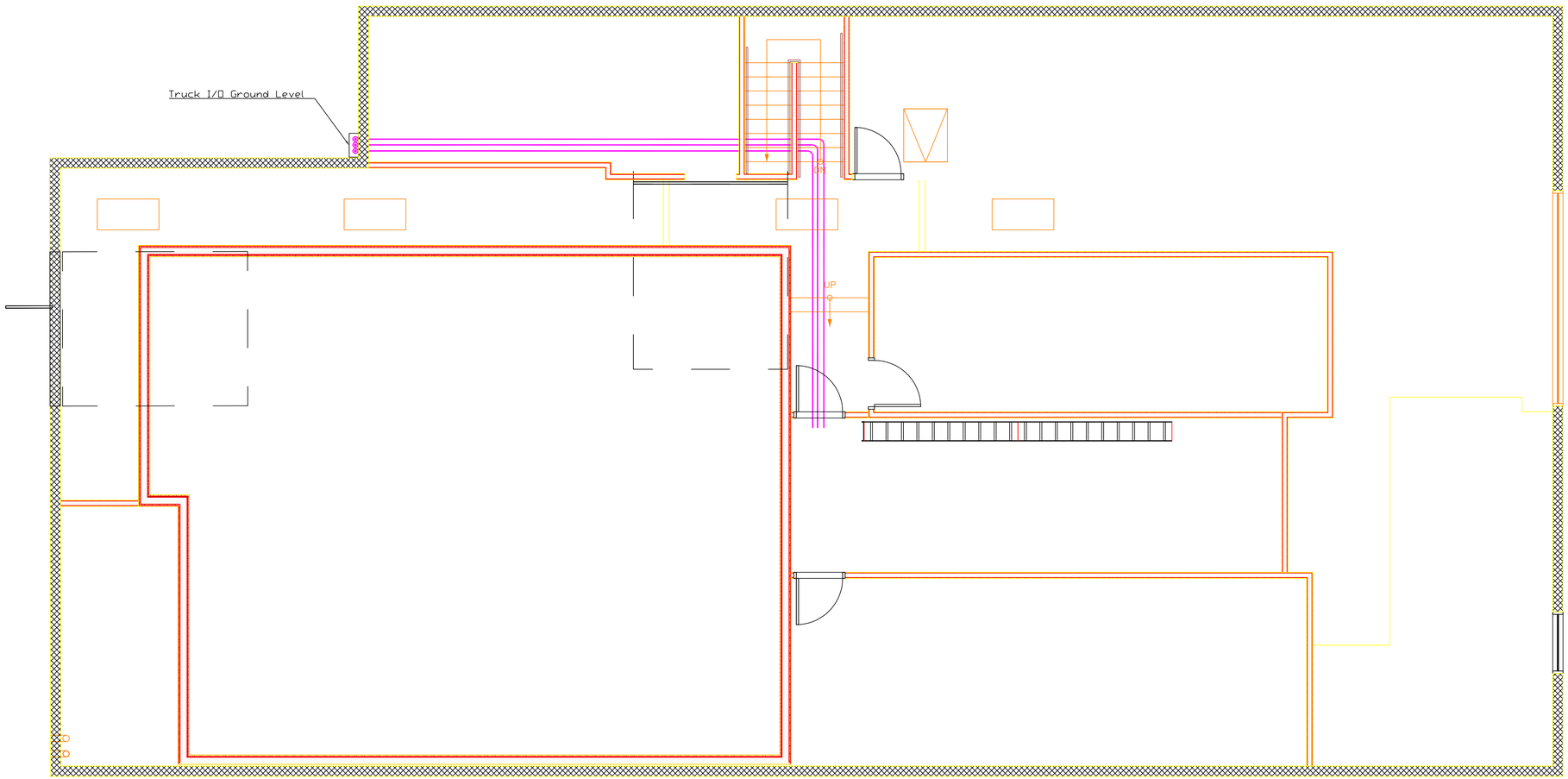
CABLE PATHS FIRST FLOOR
DRAWING

06.02.09	12-805
DATE	PROJECT NO.
–	AV02
DRAWN	
–	
REVIEWED	
1/4" = 1'-0"	
SCALE	DRAWING NO.

STAMP

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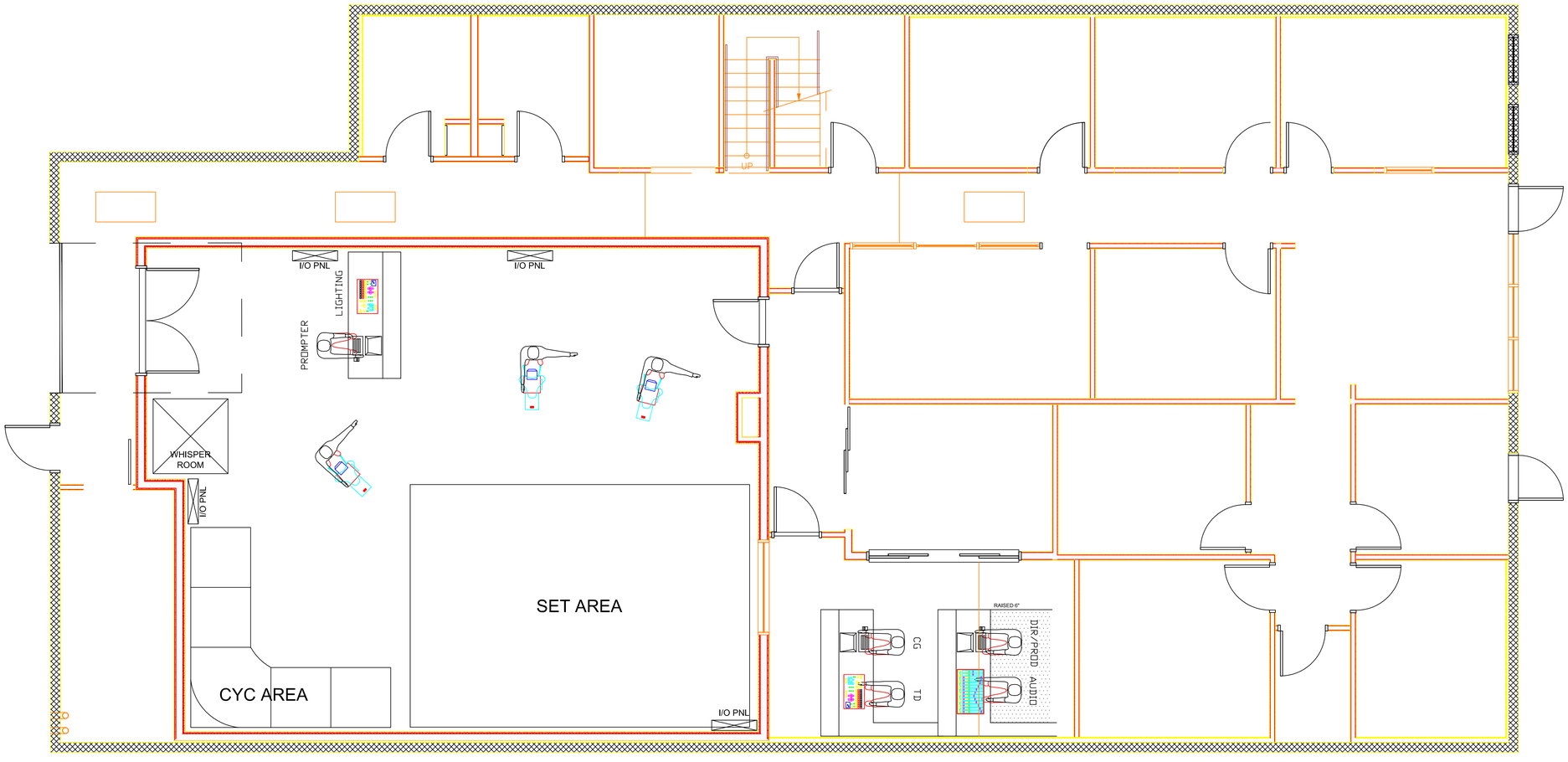
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PROJECT NO. 6619

DRAWING
CABLE PATHS ATTIC MECH AREA

STAMP	DATE	PROJECT NO. 12-805
	DRAWN –	
	REVIEWED –	AV03
	SCALE 1/4" = 1'-0"	DRAWING NO.

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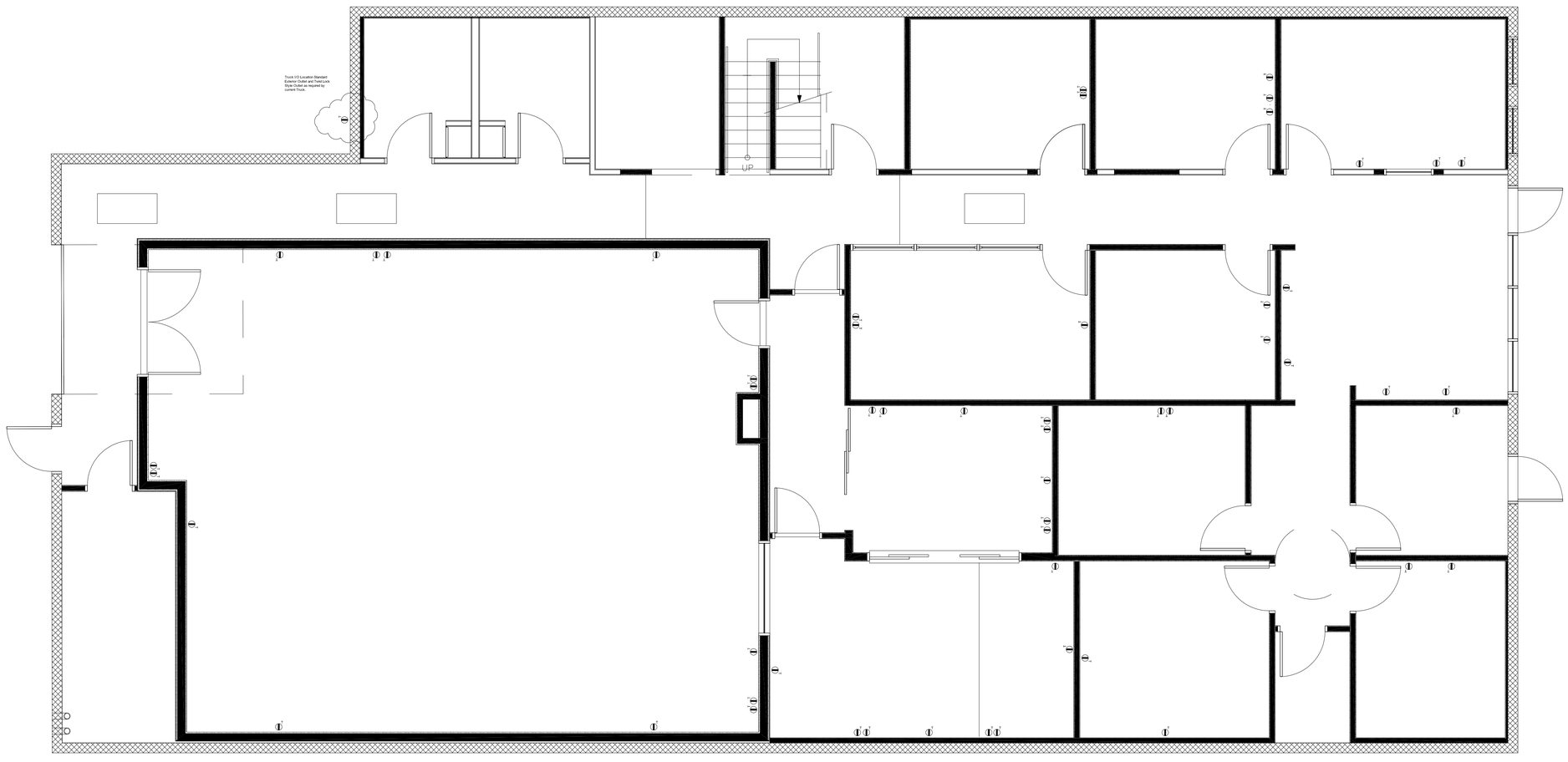
PROJECT

LAYOUT PROPOSAL FIRST FLOOR

DRAWING

06.02.09	12-805
DATE	PROJECT NO.
–	AV04
DRAWN	
–	
REVIEWED	
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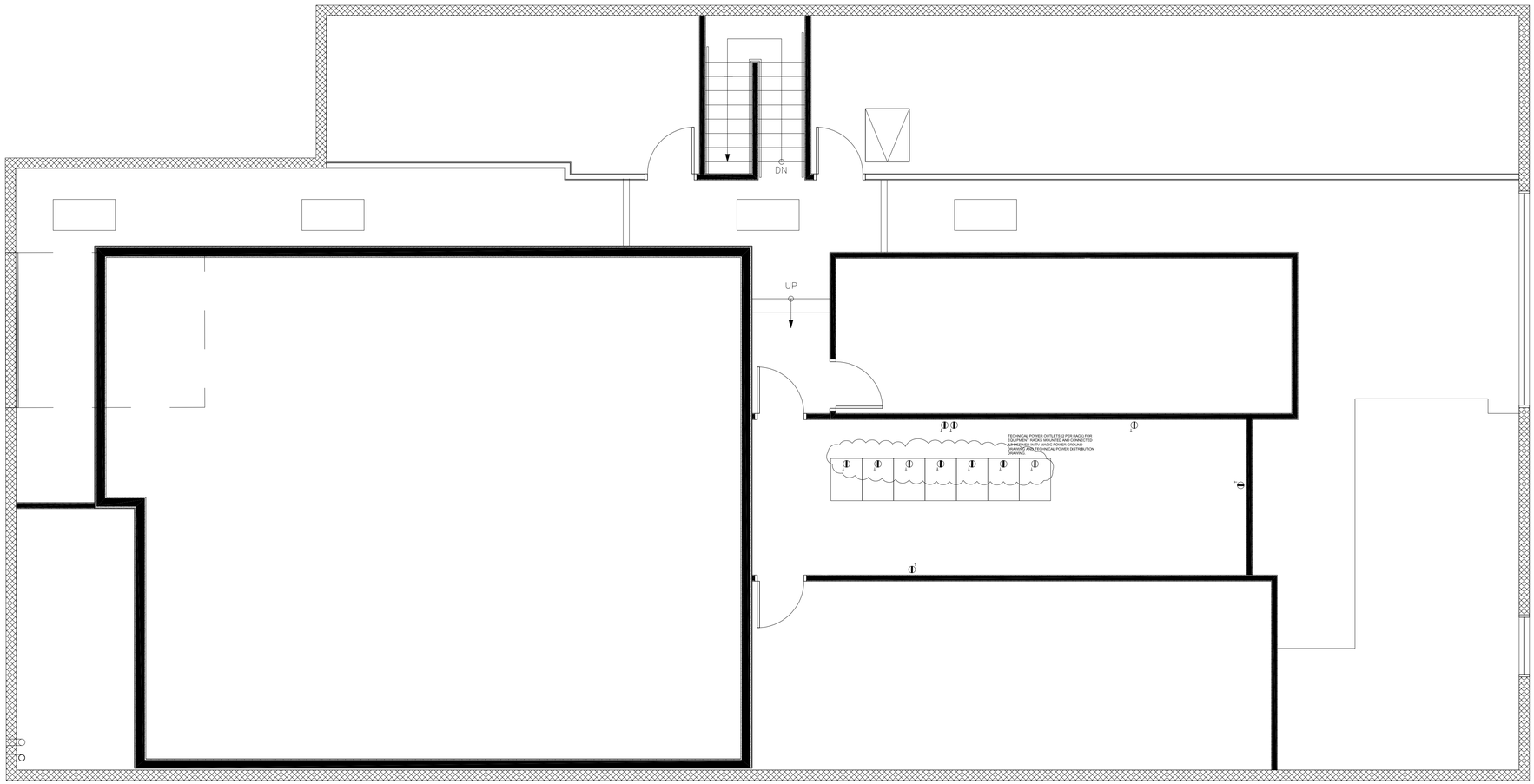
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DRAWING
TECH POWER FIRST FLOOR

STAMP	06.02.09 DATE	12-805 PROJECT NO.
	– DRAWN	AV10 DRAWING NO.
	– REVIEWED	
	1/4" = 1'-0" SCALE	

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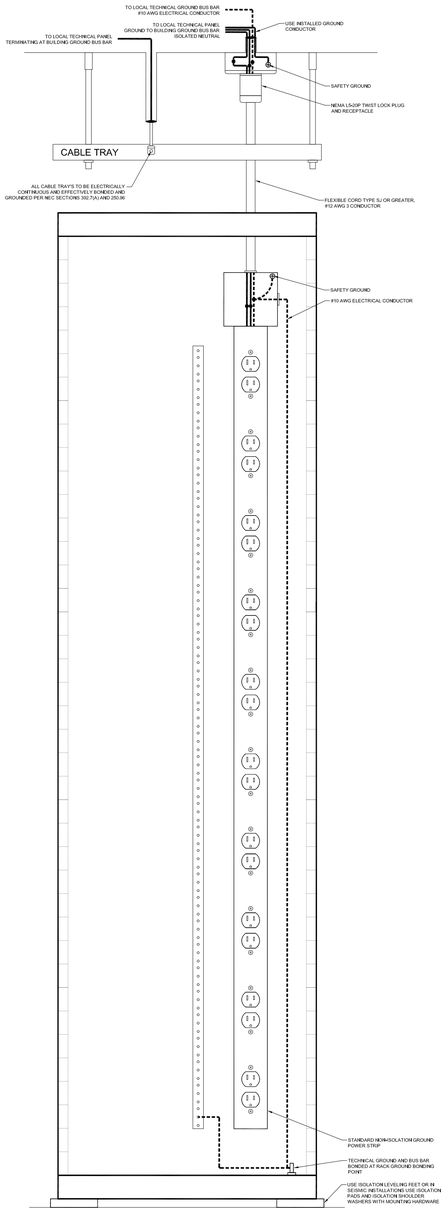
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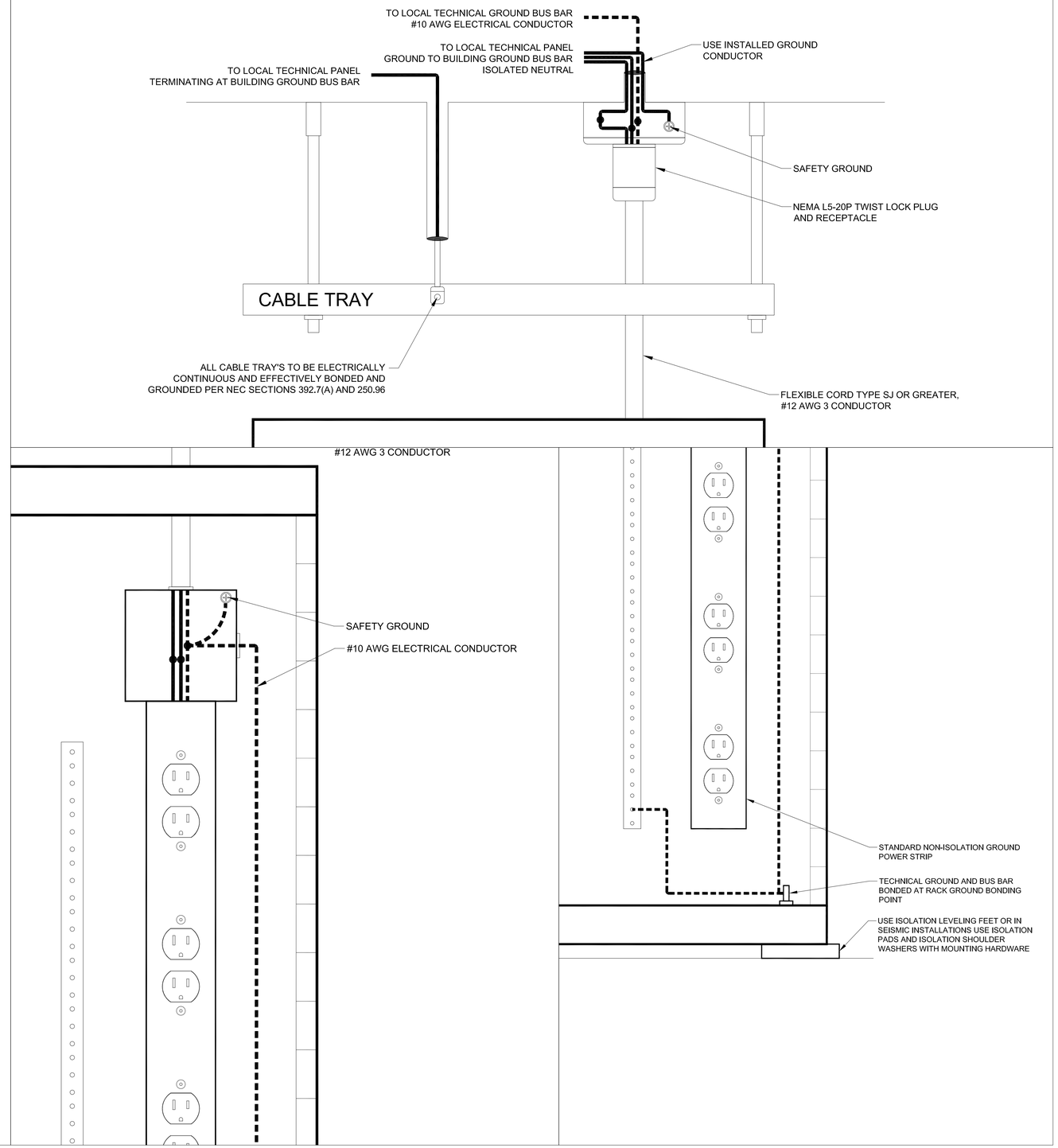
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PROJECT NO. 6619

TECH POWER ATTIC MECH AREA
DRAWING

	06.02.09 DATE	12-805 PROJECT NO.
	– DRAWN	AV11
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STAMP	1/4" = 1'-0" SCALE	DRAWING NO.





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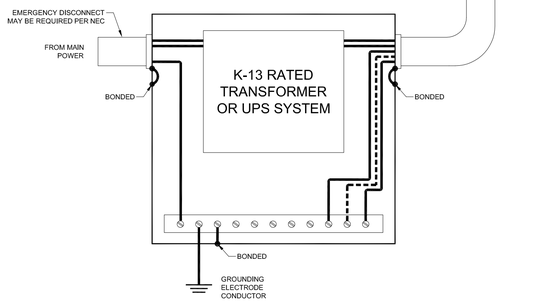
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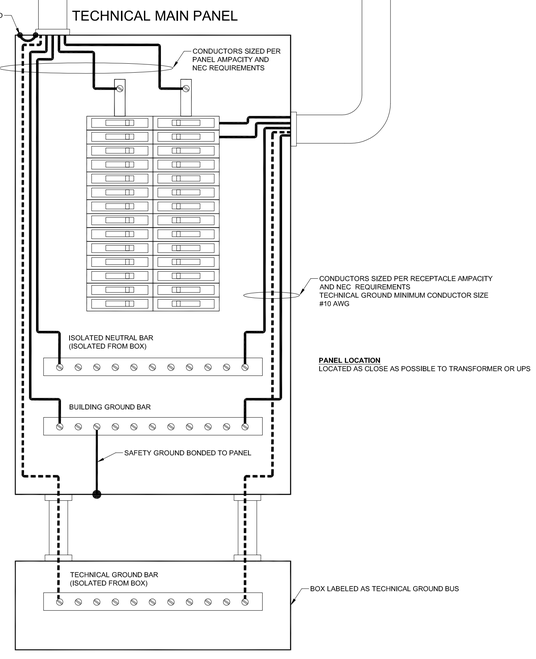
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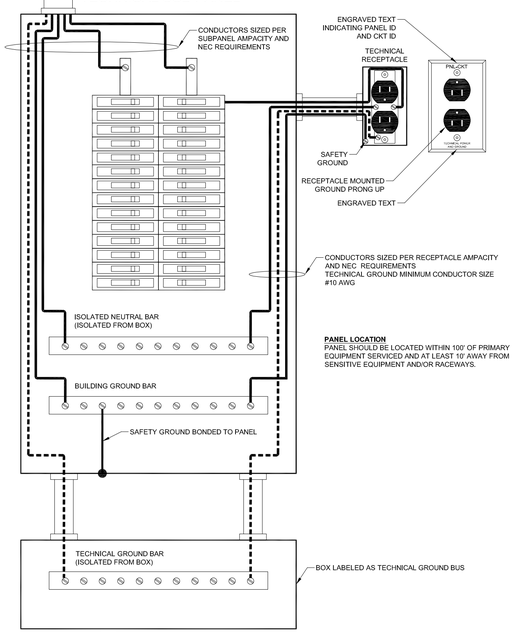
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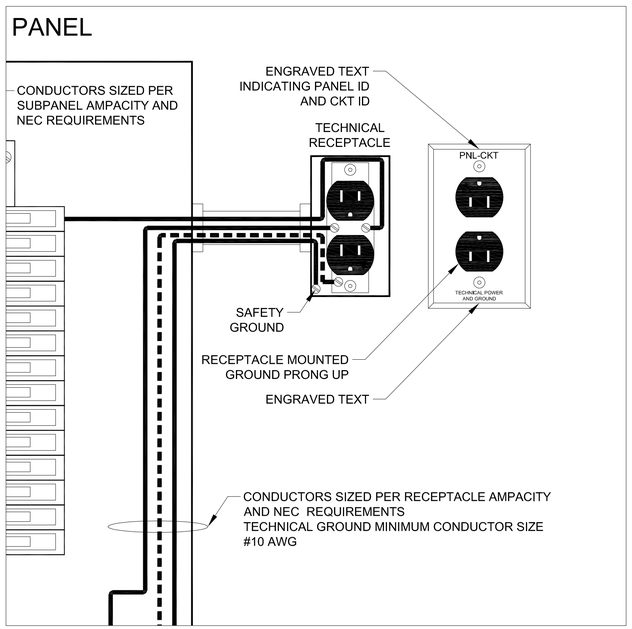
DRAWING
TECH POWER GROUNDING

STAMP	06.02.09 DATE	12–805 PROJECT NO.
	– DRAWN	AV12
	– REVIEWED	
	1/4" = 1'-0" SCALE	DRAWING NO.









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PROJECT

TECH POWER PANEL DISTRIBUTION

DRAWING

STAMP

06.02.09 DATE	12-805 PROJECT NO.
– DRAWN	AV13
– REVIEWED	
1/4" = 1'-0" SCALE	DRAWING NO.

Type	Number	Feed	Description	Size	Height (AFF)	Mounting	Qty 20A Ckt	20A CKT #			Dimmer Panel (20A Circuits)
CS	1	L	Connectorstrip	28'-0"	Grid	Pipe	8	1	-	8	SLDB
CS	2	R	Connectorstrip	17'-0"	Grid	Pipe	5	9	-	13	SLDB
CS	3	R	Connectorstrip	31'-0"	Grid	Pipe	9	14	-	22	SLDB
CS	4	R	Connectorstrip	31'-0"	Grid	Pipe	9	23	-	31	SLDB
CS	5	R	Connectorstrip	31'-0"	Grid	Pipe	9	32	-	40	SLDB
CS	6	R	Connectorstrip	31'-0"	Grid	Pipe	9	41	-	49	SLDB
CS	7	R	Connectorstrip	31'-0"	Grid	Pipe	9	50	-	58	SLDB
CS	8	R	Connectorstrip	31'-0"	Grid	Pipe	9	59	-	67	SLDB
CS	9	R	Connectorstrip	28'-0"	Grid	Pipe	8	68	-	75	SLDB
WB	1		Wall Box		36"	Surface	3	76	-	78	SLDB
W3	2		Wall Box		36"	Surface	3	79	-	81	SLDB
W3	3		Wall Box		36"	Surface	3	82	-	84	SLDB
W3	4		Wall Box		36"	Surface	3	85	-	87	SLDB
							20A				
							Total				
							87				
STUDIO Dimmer Rack Assignments						**SLDB**	**20A**	**1**	**-**	**87**	

STUDIO LIGHTING CIRCUIT ASSIGNMENTS

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NO	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE

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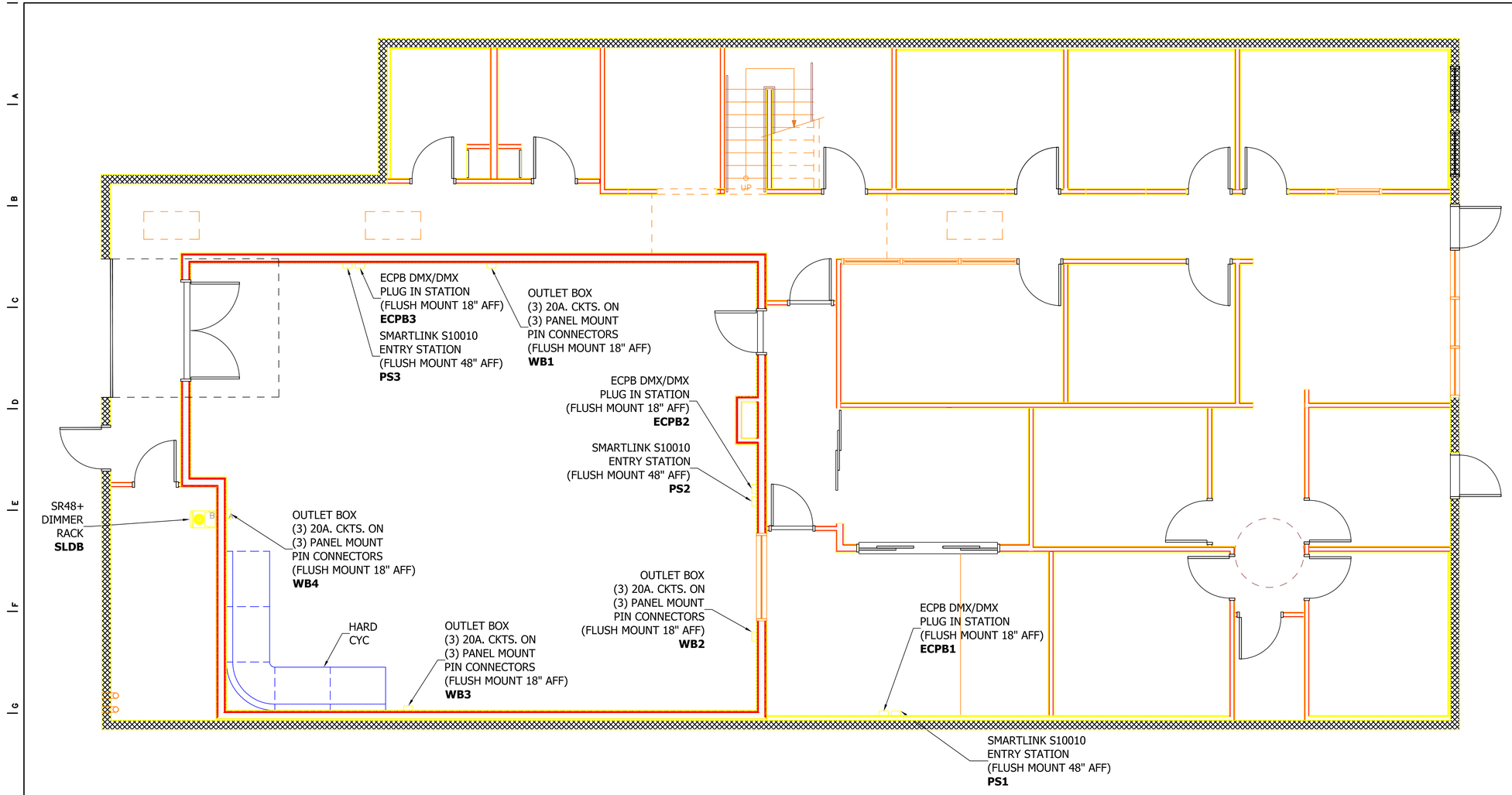
info@bauton.com

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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
CITY OF SANTA MONICA
PROJECT NO. 6619
PROJECT

LIGHTING CIRCUIT ASSIGNMENTS
DRAWING

	06.02.09 DATE	12-805 PROJECT NO.
	- DRAWN	AV20
	- REVIEWED	
STAMP	1/4" = 1'-0" SCALE	DRAWING NO.



NOTES:

1.) ALL STUDIO LIGHTING CIRCUITS REQUIRE SEPARATE NEUTRALS.

2.) ALL STANDARD BACK BOXES TO BE PROVIDED BY ELECTRICAL CONTRACTOR. USE RACO 690 SERIES (DEEP)

3.) ALL CONTROL AND DISTRIBUTION CONDUIT AND WIRING TO BE PROVIDED, INSTALLED, PULLED, AND LABELED BY ELECTRICAL CONTRACTOR.

4.) LOCATE DUPLEX OUTLET NEXT TO ALL ECPB CONSOLE PLUG IN STATIONS.

5.) HARD CYCLORAMA TO BE BUILT INTO STUDIO WALLS AND INSTALLED AND FINISHED BY GC / DRYWALL CONTRACTOR.

FLOOR PLAN

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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404

CITY OF SANTA MONICA
PROJECT NO. 6619

PROJECT

LIGHTING FLOOR DEVICES

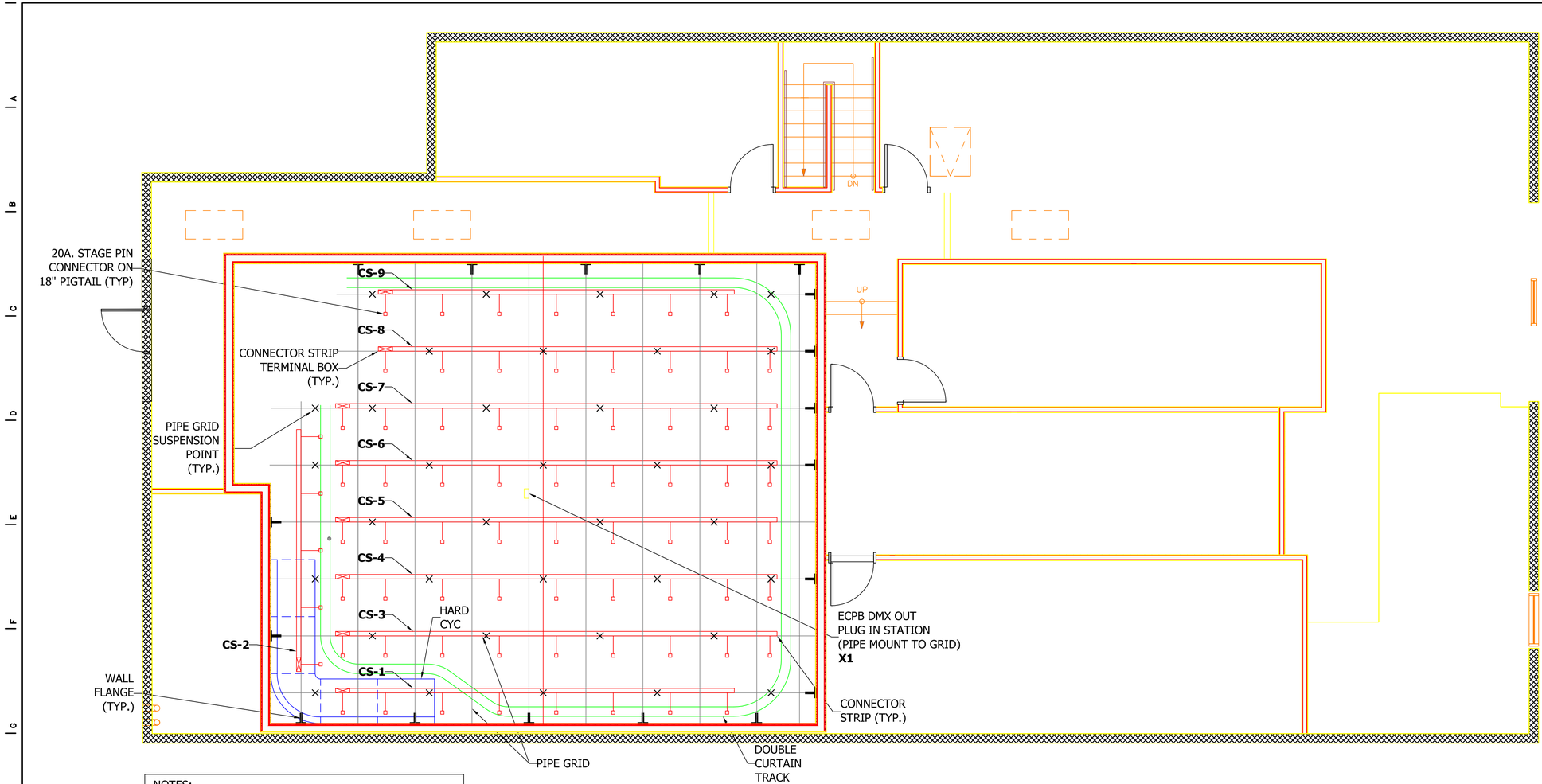
DRAWING

06.02.09 DATE	12–805 PROJECT NO.
– DRAWN	AV21
– REVIEWED	
1/4" = 1'-0" SCALE	DRAWING NO.

STAMP

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NOTES:

1.) ALL STUDIO LIGHTING CIRCUITS REQUIRE SEPARATE NEUTRALS.

2.) ALL STANDARD BACK BOXES TO BE PROVIDED BY ELECTRICAL CONTRACTOR. USE RACO 690 SERIES (DEEP).

3.) ALL CONTROL AND DISTRIBUTION CONDUIT AND WIRING TO BE PROVIDED, INSTALLED, PULLED, AND LABELED BY ELECTRICAL CONTRACTOR.

4.) GRID HEIGHT IS APPROXIMATELY 13'-0" AFF, COORDINATE EXACT HEIGHT IN FIELD.

5.) PIPE GRID OVERLAP BRACKETS TO BE USED AT EVERY INTERSECTION ON THE PIPE GRID PERIMETER, EVERY OTHER INTERSECTION ON PIPE GRID INTERIOR.

6.) PIPE GRID WALL FLANGES TO CONNECT TO WALL BLOCKING (BY OTHERS).

7.) CONNECTOR STRIPS TO BE SUPPORTED BY, AND MOUNTED ABOVE PIPE GRID.

8.) NO CONDUITS OR BRANCH CIRCUIT WIREWAYS TO BE SUPPORTED FROM PIPE GRID.

9.) HARD CYLORAMA TO BE BUILT INTO STUDIO WALLS AND INSTALLED ANF FINISHED BY GC / DRYWALL CONTRACTOR.

RCP PLAN

NO	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE

KEYPLAN

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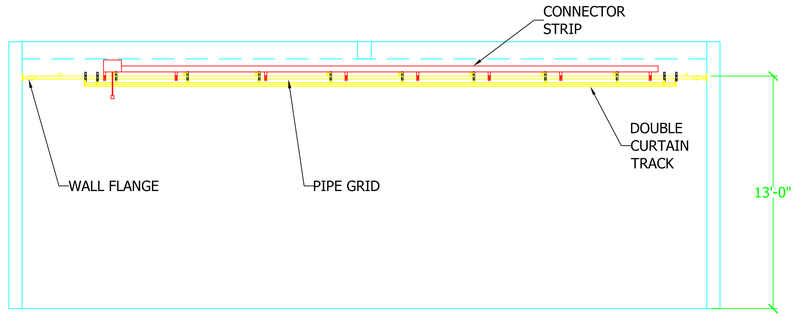
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PROJECT NO. 6619

DRAWING
LIGHTING RCP DEVICES

STAMP	06.02.09 DATE	12–805 PROJECT NO.
	– DRAWN	AV22
	– REVIEWED	
	1/4" = 1'-0" SCALE	DRAWING NO.



SECTION

NOTES:

1.) GRID HEIGHT IS APPROXIMATELY 13'-0" AFF, COORDINATE EXACT HEIGHT IN FIELD.

2.) PIPE GRID OVERLAP BRACKETS TO BE USED AT EVERY INTERSECTION ON THE PIPE GRID PERIMETER, EVERY OTHER INTERSECTION ON PIPE GRID INTERIOR.

3.) PIPE GRID WALL FLANGES TO CONNECT TO WALL BLOCKING (BY OTHERS).

4.) CONNECTOR STRIPS TO BE SUPPORTED BY, AND MOUNTED ABOVE PIPE GRID.

5.) NO CONDUITS OR BRANCH CIRCUIT WIREWAYS TO BE SUPPORTED FROM PIPE GRID.

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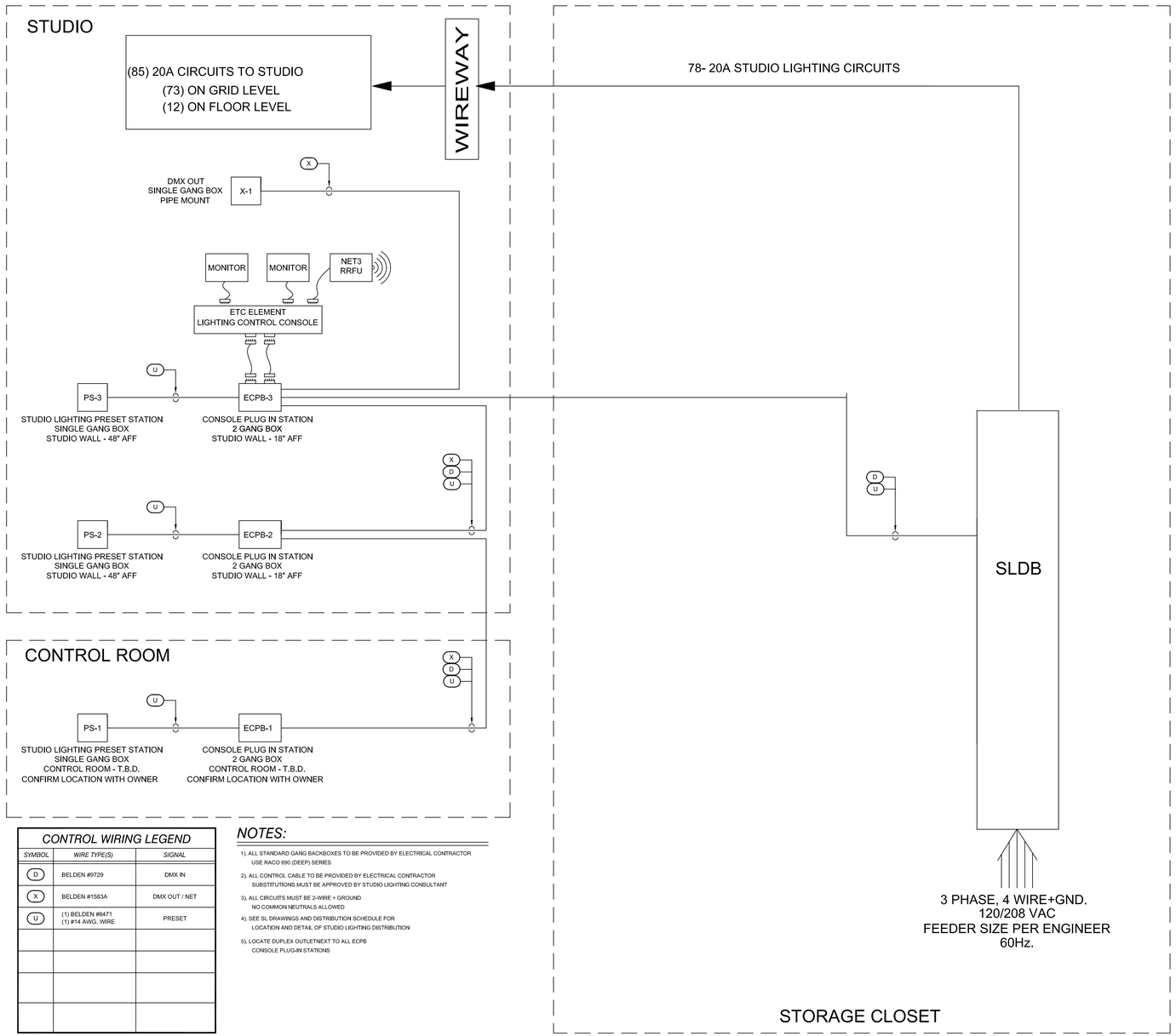
PROJECT
SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
CITY OF SANTA MONICA
PROJECT NO. 6619

DRAWING
LIGHTING SECTION

STAMP	DATE 06.02.09	PROJECT NO. 12–805
	DRAWN –	
	REVIEWED –	DRAWING NO. AV23
	SCALE 1/4" = 1'-0"	

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AUDIOVISUAL FACILITIES



CONTROL WIRING LEGEND

SYMBOL	WIRE TYPE(S)	SIGNAL
D	BELDEN #9729	DMX IN
X	BELDEN #1583A	DMX OUT / NET
U	(1) BELDEN #8471 (1) #14 AWG. WIRE	PRESET

NOTES:

1). ALL STANDARD GANG BACKBOXES TO BE PROVIDED BY ELECTRICAL CONTRACTOR
USE RACO 690 (DEEP) SERIES

2). ALL CONTROL CABLE TO BE PROVIDED BY ELECTRICAL CONTRACTOR
SUBSTITUTIONS MUST BE APPROVED BY STUDIO LIGHTING CONSULTANT

3). ALL CIRCUITS MUST BE 2-WIRE + GROUND
NO COMMON NEUTRALS ALLOWED

4). SEE SL DRAWINGS AND DISTRIBUTION SCHEDULE FOR
LOCATION AND DETAIL OF STUDIO LIGHTING DISTRIBUTION

5). LOCATE DUPLEX OUTLETNEXT TO ALL ECPB
CONSOLE PLUG-IN STATIONS

RISER

NO	DESCRIPTION	BY	DATE	NO.	DESCRIPTION	BY	DATE

KEYPLAN

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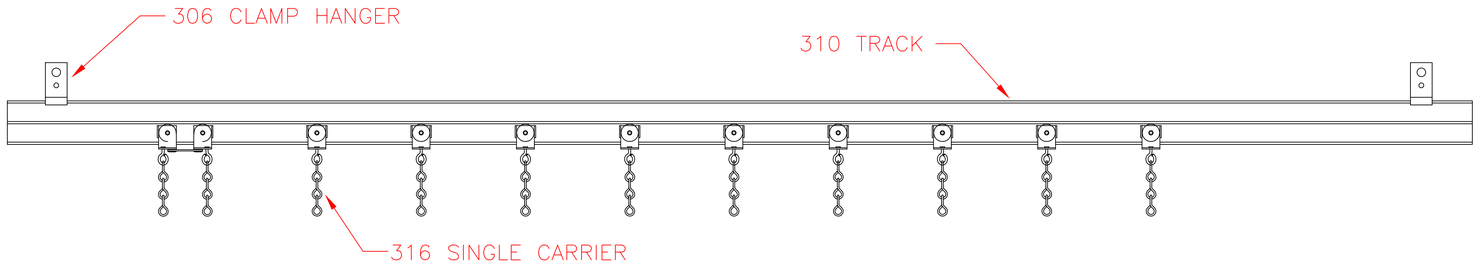
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SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
CITY OF SANTA MONICA
PROJECT NO. 6619

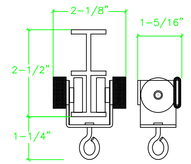
DRAWING
LIGHTING RISER

STAMP

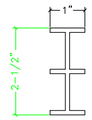
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– DRAWN	AV24
– REVIEWED	
1/4" = 1'–0" SCALE	DRAWING NO.



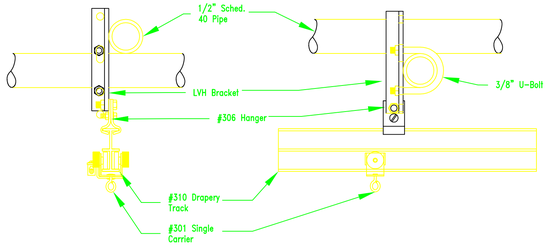
MODEL 316 COMPLETE TRACK

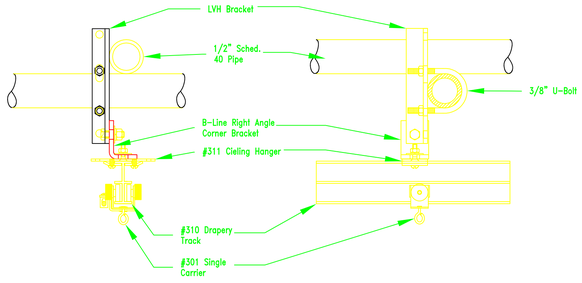


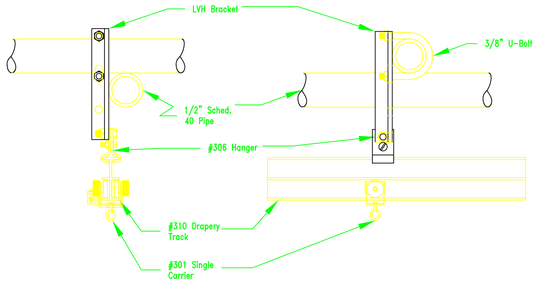
316 SINGLE CARRIER

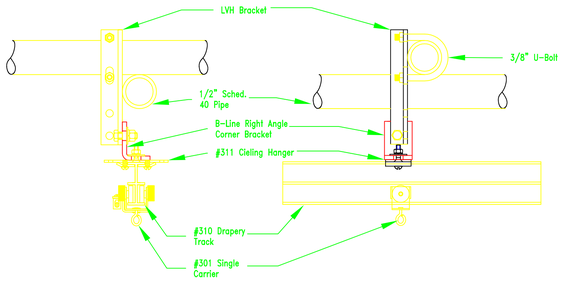


310 TRACK









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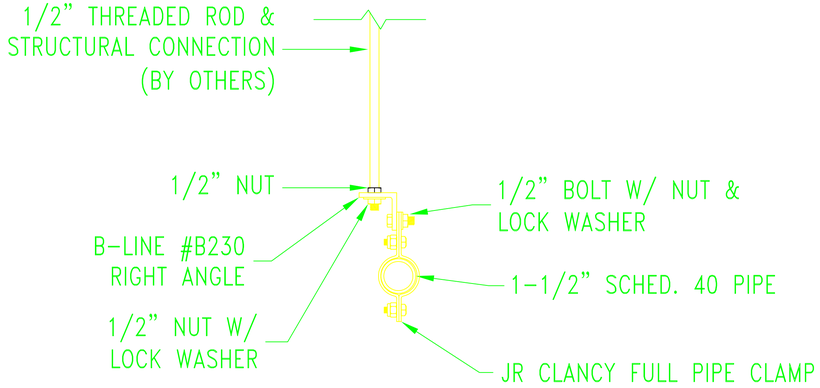
info@bauton.com

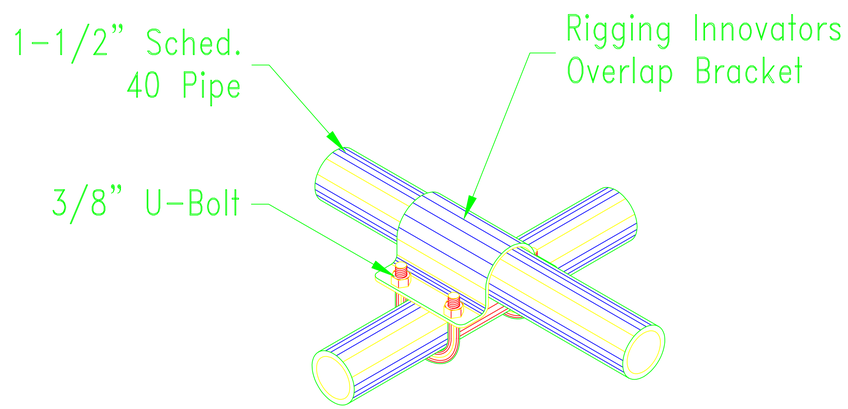
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PROJECT
SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
CITY OF SANTA MONICA
PROJECT NO. 6619

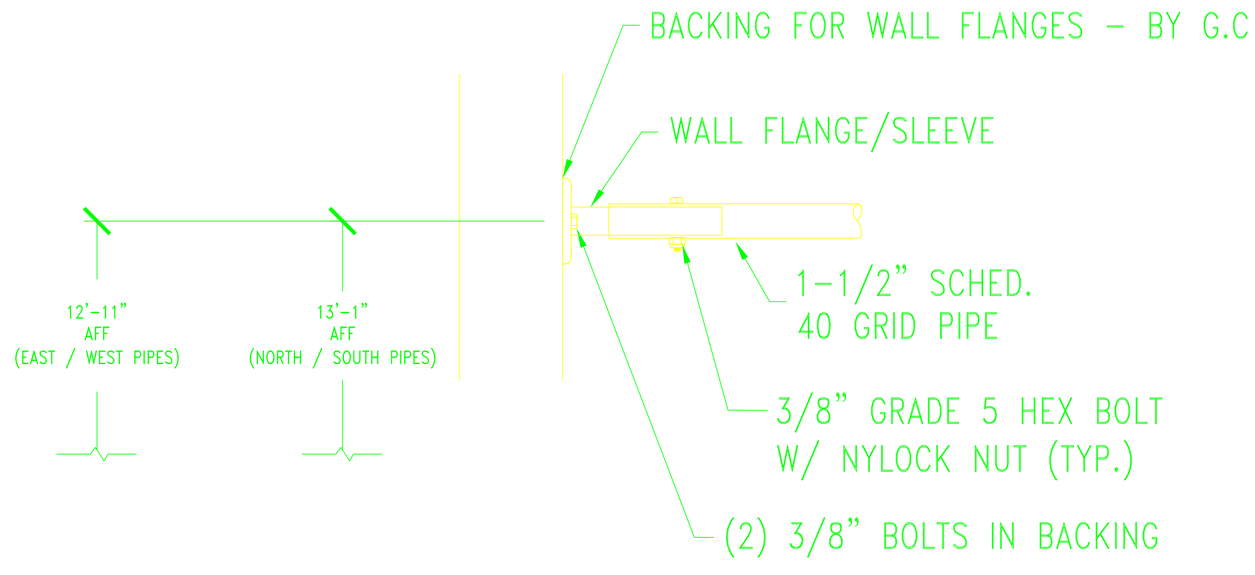
DRAWING
LIGHTING TRACK DETAILS

STAMP	06.02.09 DATE	12-805 PROJECT NO.
	– DRAWN	AV25
	– REVIEWED	
	1/4" = 1'-0" SCALE	DRAWING NO.





Use at every pipe intersection on grid perimeter
and every other pipe intersection on grid interior



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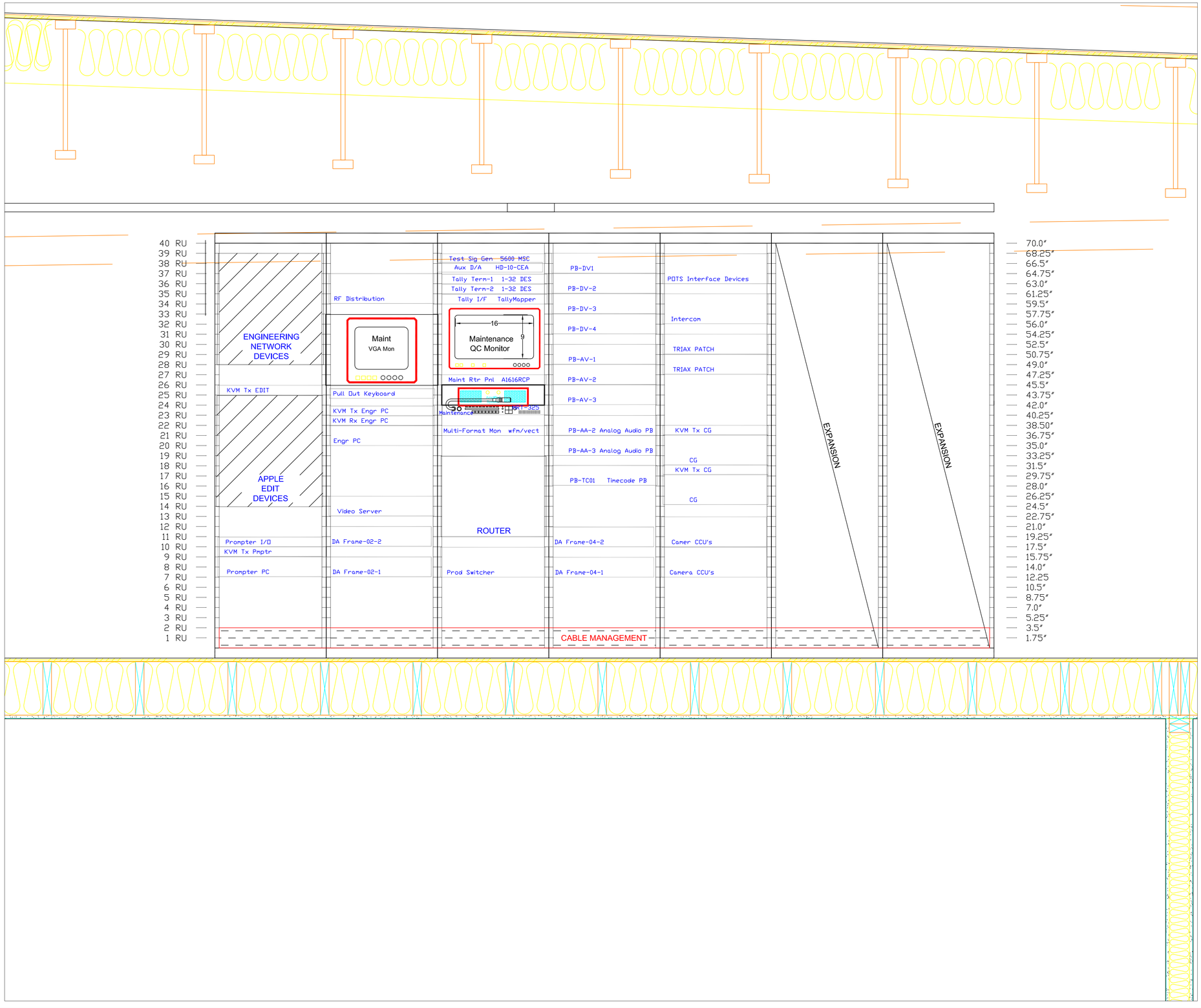
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1654 19TH STREET, SANTA MONICA, CA 90404
CITY OF SANTA MONICA
PROJECT NO. 6619
PROJECT

LIGHTING RIGGING DETAILS
DRAWING

	06.02.09 DATE	12-805 PROJECT NO.
	- DRAWN	AV26
	- REVIEWED	
	1/4" = 1'-0" SCALE	

STAMP
DRAWING NO.



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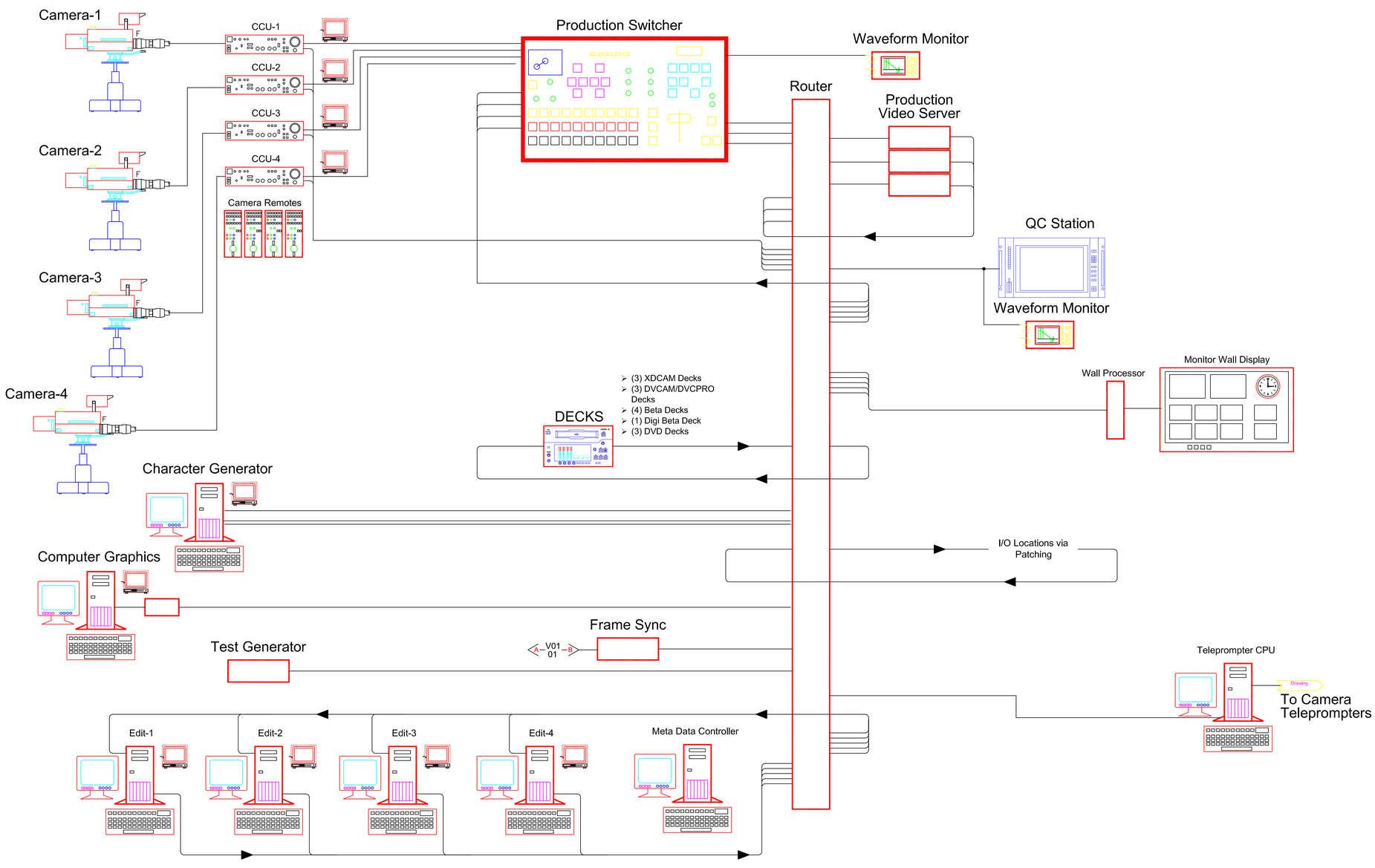
PROJECT
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1654 19TH STREET, SANTA MONICA, CA 90404
CITY OF SANTA MONICA
PROJECT NO. 6619

DRAWING
RACK ELEVATIONS ATTIC MECH AREA

STAMP	06.02.09 DATE	12–805 PROJECT NO.
	– DRAWN	AV30
	– REVIEWED	
	1.5" = 1'-0" SCALE	DRAWING NO.

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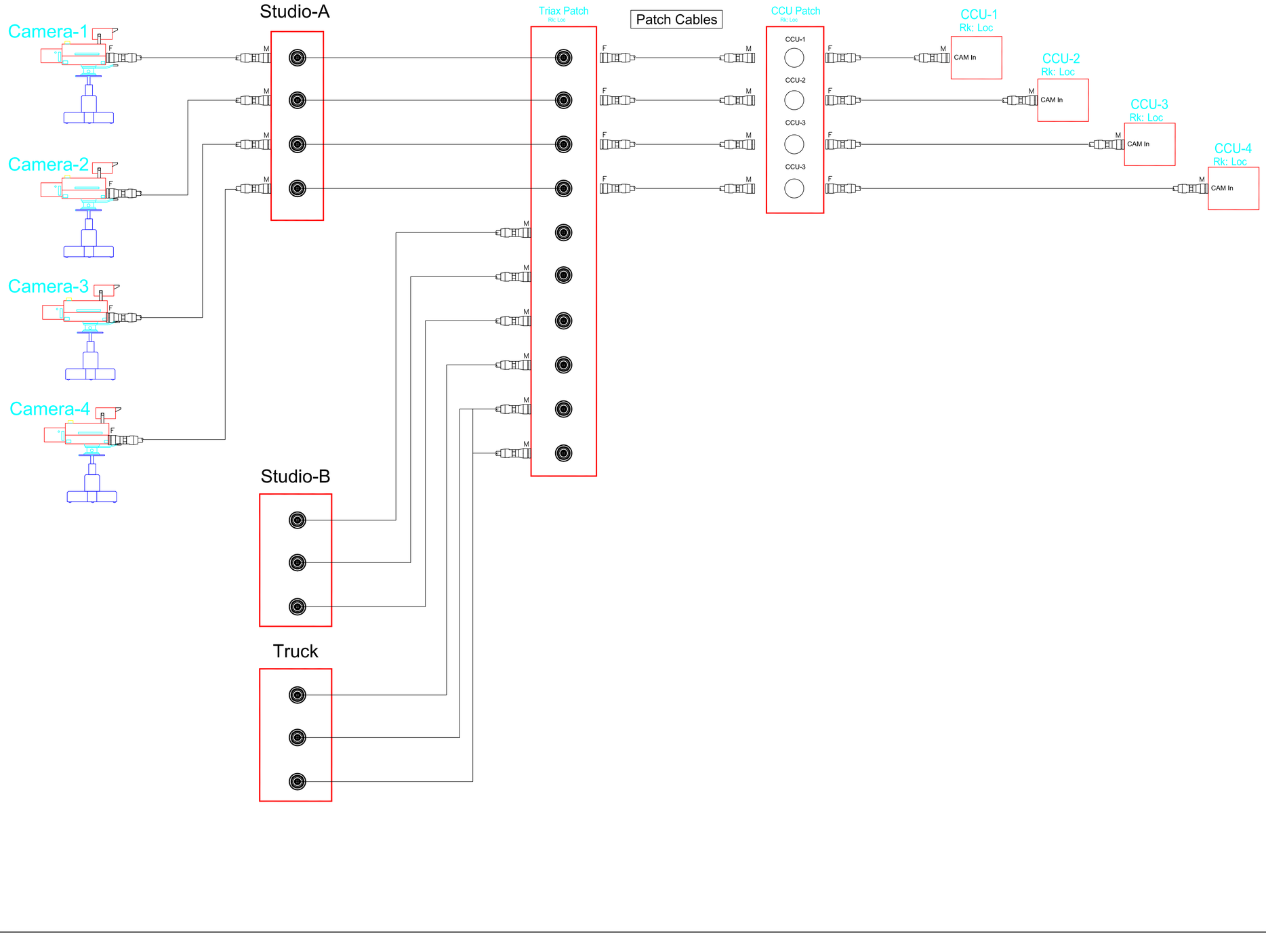
PROJECT
SANTA MONICA CITY TV
1654 19TH STREET, SANTA MONICA, CA 90404
CITY OF SANTA MONICA
PROJECT NO. 6619

DRAWING
AV BLOCK VIDEO

STAMP	06.02.09 DATE	12-805 PROJECT NO.
	– DRAWN	AV31
	– REVIEWED	
	1/4" = 1'-0" SCALE	DRAWING NO.

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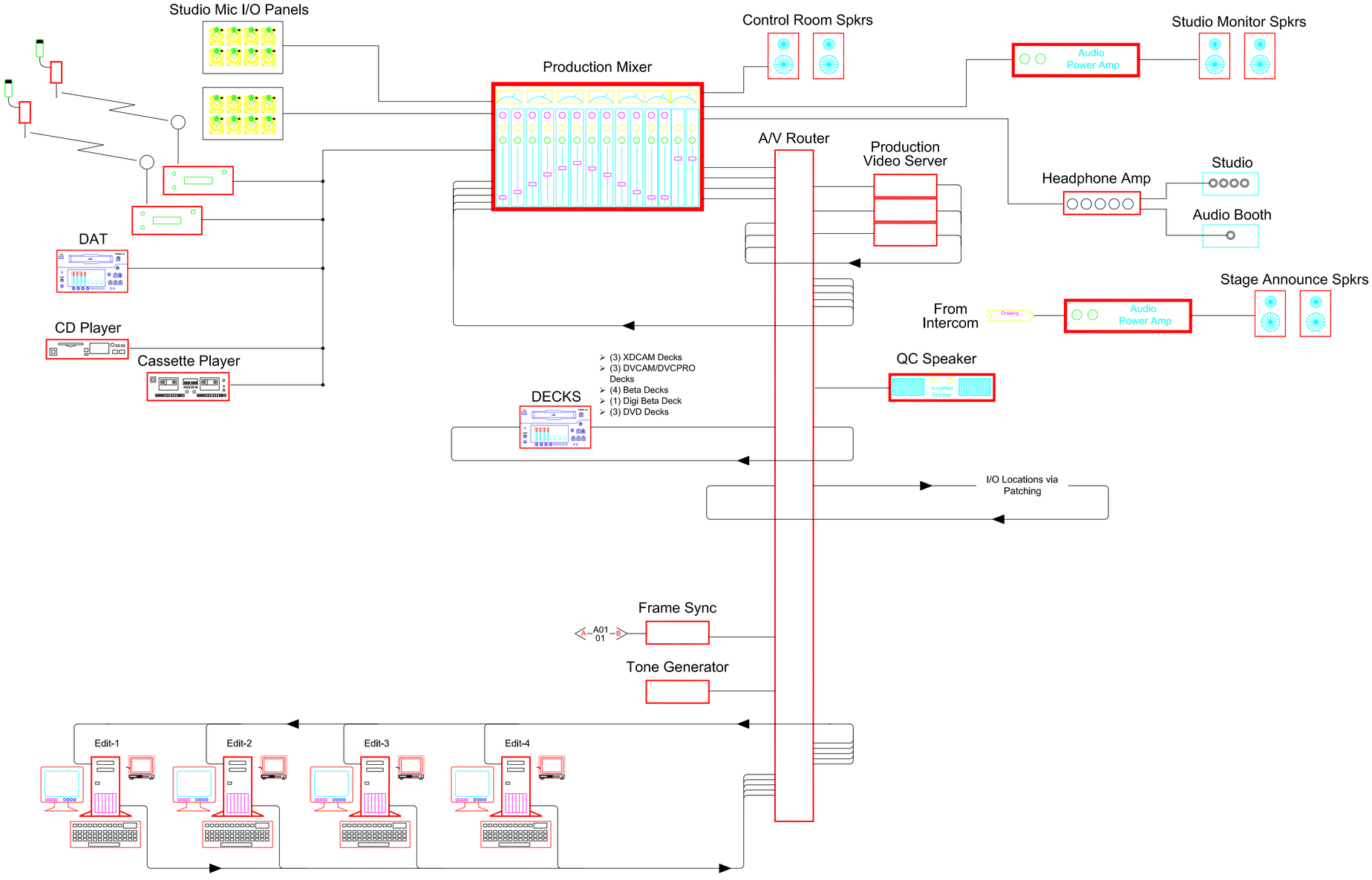
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PROJECT NO. 6619
PROJECT

AV BLOCK CAMERA
DRAWING

06.02.09 DATE	12-805 PROJECT NO.
– DRAWN	AV32
– REVIEWED	
1/4" = 1'-0" SCALE	DRAWING NO.

STAMP



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PROJECT

AV BLOCK AUDIO

DRAWING

STAMP	06.02.09 DATE	12-805 PROJECT NO.
	– DRAWN	AV33
	– REVIEWED	
	1/4" = 1'-0" SCALE	DRAWING NO.