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## ABBREVIATIONS

| ABBREV | DESCRIPTION |
|---|---|
| A, AMPS | AMPERES |
| ABREV. | ABBREVIATION |
| AC | AIR CONDITIONER |
| AC | ALTERNATE CURRENT |
| AF | AMPERE FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AG | ABOVE CEILING GRID |
| AIC | AMPERE INTERRUPTION CURRENT |
| ALUM | ALUMINUM |
| APP. | APPROXIMATE |
| ARCH | ARCHITECT/ARCHITECTURAL |
| AT | AMPERES TRIP |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| BC | BARE COPPER |
| BDC | BUILDING DISTRIBUTION CLOSET |
| BKBD | BACKBOARD |
| BKR | BREAKER |
| BLDG | BUILDING |
| C | CONDUIT |
| CAT. | CATALOG |
| CAT3 | CATEGORY 3 COPPER CABLE |
| CAT5E | CATEGORY 5E COPPER CABLE |
| CAT6 | CATEGORY 6 COPPER CABLE |
| CB | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CFF | CAP FOR FUTURE |
| CKT | CIRCUIT |
| CL | CENTERLINE |
| CLG | CEILING |
| CO | CONDUIT ONLY |
| CONC | CONCRETE |
| COND | CONDUIT |
| CONN | CONNECT, CONNECTION |
| CONTR | CONTRACTOR |
| CTE | CONNECT TO EXISTING |
| CU | COPPER |
| DEPT | DEPARTMENT |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DISC | DISCONNECT (SWITCH) |
| DIST | DISTRIBUTION |
| DN | DOWN |
| DO | DUCT ONLY WITH #12 TW COPPER PULL WIRE OR 3/16" DIAMETER NYLON PULL ROPE. |
| DP | DISTRIBUTION PANEL |
| DWG | DRAWING |
| (E) | EXISTING |
| EA | EACH |
| ELECT. | ELECTRICAL |
| ELEV | ELEVATION |
| ELR | END-OF-LINE RESISTOR |
| EMERG | EMERGENCY |
| EMT | ELECTRICAL METALLIC TUBING |
| EP | ELECTRICAL PANEL BOARD |
| EPO | EMERGENCY POWER OFF |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EWP | EMERGENCY WALL PHONE |
| EXT | EXTERIOR |
| FA | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| FLA | FULL LOAD AMPERES |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| F O | FIBER OPTIC CABLE |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FPRF | FIRE-PROOF |
| FRTD | FIRE-RETARDENT |
| FT | FOOT OR FEET |
| FUT, (F) | FUTURE |
| G | GROUND |
| GA | GAUGE |
| GALV | GALVANIZED |
| GEN | GENERAL |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GRND | GROUND |
| GYP | GYPSYM |
| HGT | HEIGHT |
| HOR | HORIZONTAL |
| HOA | HAND-OFF-AUTO SELECTOR SWITCH |
| HPS | HIGH PRESSURE SODIUM |
| HR | HOUR |
| HZ | HERTZ |
| IDC | INTERMEDIATE DISTRIBUTION CENTER |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IG | ISOLATED GROUND |
| INCAND | INCANDESCENT |
| INT | INTERIOR |
| ISC | INTERRUPTING SHORT CIRCUIT |
| JB | JUNCTION BOX |
| KCMIL | KILO CIRCULAR MILLS |
| KV | KILOVOLTS |
| KVA | KILO VOLT-AMPERES |
| KW | KILOWATTS |
| KWH | KILOWATT-HOURS |
| LCP | LIGHTING CONTROL PANEL |
| LTG | LIGHTING |
| LTS | LIGHTS |
| MA | MILLIAMPS |
| MAX | MAXIMUM |
| MCC | MOTOR CONTROL CENTER |
| MDC | MAIN DISTRIBUTION CENTER |
| MDF | MAIN DISTRIBUTION FRAME |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MLO | MAIN LUGS ONLY |
| MMF | MULTI MODE FIBER-OPTIC CABLE |
| MPOE | MINIMUM POINT OF ENTRY |
| MTD | MOUNTED |
| MTG. HT. | MOUNTING HEIGHT |

## ABBREVIATIONS

| ABBREV | DESCRIPTION |
|---|---|
| MTL | METAL |
| MSB | MAIN SWITCHBOARD |
| MSG | MAIN SWITCH GEAR |
| (N) | NEW |
| N | NEUTRAL |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OFCI | OWNER FURNINSHED, CONTRACTOR INSTALLED |
| OFOI | OWNER FURNINSHED, OWNER INSTALLED |
| OH | OVERHEAD |
| OSP | OUTSIDE PLANT |
| P | POLE |
| PA | PUBLIC ADDRESS |
| PDU | POWER DISTRIBUTION UNIT |
| PH, ø | PHASE |
| PLY | PLYWOOD |
| PNL | PANEL |
| POC | POINT OF CONNECTION |
| (R) | RELOCATE |
| REC | RECEPTACLE |
| REF | REFERENCE |
| REQD | REQUIRED |
| RM | ROOM |
| RMS | ROOT MEAN SQUARE |
| RO | ROUGH OPENING |
| SCHED | SCHEDULE |
| SECT | SECTION |
| SIM | SIMILAR |
| SLV | SLEEVE – FOR CABLE |
| SMF | SINGLE MODE FIBER-OPTIC CABLE |
| SPEC | SPECIFICATIONS |
| SPKR | SPEAKER |
| SURF | SURFACE |
| SUSP | SUSPENDED |
| STD | STANDARD |
| STOR | STORAGE |
| STRUC | STRUCTURAL |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| SYM | SYMMETRICAL |
| (T) | TEMPORARY |
| T, TEL | TELEPHONE |
| TELE | TELECOMMUNICATIONS |
| TEMP | TEMPERATURE |
| TERM | TERMINATION |
| TGB | TELECOMMUNICATIONS GROUND BUSBAR |
| THRU | THROUGH |
| TRANS | TRANSFORMER |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UON | UNLESS OTHERWISE NOTED |
| UTP | UNSHIELDED TWISTED PAIR |
| V | VOLTS |
| VA | VOLT-AMPERES |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| VWF | VOICE WALL FRAME |
| W | WALL PHONE |
| W/ | WITH |
| W/O | WITHOUT |
| WP | WATERPROOF |
| WM | WIRE MANAGEMENT |
| WAP | WIRELESS ACCESS POINT |

## GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ANSI/TIA/EIA 568-B.1 COMMERCIAL BUILDING COMMUNICATIONS CABLING STANDARD AND 569, 606 AND 607.
2. ALL INSTALLATIONS SHALL COMPLY WITH ANSI EIA/TIA-568B, 569 AND 606 AND ALL APPLICABLE LOCAL CODES.
3. REFER TO ELECTRICAL PLANS FOR CONDUIT/CABLE TRAY PATHWAYS.
4. REFER TO COMMUNICATION PLAN FOR TYPICAL OUTLET CONFIGURATION (UNLESS NOTED OTHERWISE).
5. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
6. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
8. TELECOM CONTRACTOR SHALL COMPLY WITH THE CALIFORNIA STATE HANDICAP LAWS (CA TITLE 24) WITH REGARD TO THE FOLLOWING MOUNTING HEIGHT OF RECEPTACLES – NO OUTLET SHALL BE MOUNTED ON A WALL AT LESS THAN 15" AFF NOR MORE THAN 48".
9. ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AMD SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
10. CONTRACTOR SHALL COMPLY WITH THE CALIFORNIA STATE HANDICAP LAWS (TITLE 24) WITH REGARD TO THE FOLLOWING MOUNTING HEIGHTS FOR COMMUNICATIONS OUTLETS: NO OUTLET SHALL BE MOUNTED ON A WALL AT LESS THAN 15" AFF OR MORE THAN 48" AFF.
11. THE OWNER AND/OR OWNER REPRESENTATIVE IS TO BE NOTIFIED OF ANY CHANGE TO DRAWINGS OR SPECIFICATIONS IN WRITING CAUSED BY FIELD CONDITION CONFLICTS.
12. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE STOPPED USING THE APPROPRIATE APPROVED (UL CLASSIFIED) FIRE STOPPING MATERIAL. THIS SHALL INCLUDE BUT NOT BE LIMITED TO WALL, FLOOR, CEILING PENETRATIONS AND CONDUITS, SLEEVES, SLOTS OR CABLE.
13. ANY DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS ARE TO BE APPROVED BY OWNER IN WRITING PRIOR TO CHANGING ANY DEVIATION DONE WITHOUT WRITTEN APPROVAL IS DONE AT THE RISK AND COST OF CONTRACTOR.
14. COORDINATION ITEMS:
    A. COORDINATE LOCATION OF ALL CONDUITS, SLEEVES, AND CABLE TRAY BEING USED FOR STRUCTURED CABLING SYSTEM.

## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| —J— | J-HOOK |
| —xx CT— | CABLE TRAY (SIZE AS INDICATED) |
| W | WALL PHONE, MOUNTED 48" AFF. |
| WAP | WIRELESS ACCESS POINT, MOUNTED 12' AFF. |
| | AV OUTLET, SINGLE GANG, WALL MOUNTED 18" AFF |
| | DATA OUTLET, SINGLE GANG, WALL MOUNTED 18" AFF, SEE X/TX.X |
| | VOICE AND DATA OUTLET, SINGLE GANG, WALL MOUNTED 18" AFF, FURNITURE, WIREMOLD, SEE X/TX.X |
| D | VOICE AND DATA OUTLET, SINGLE GANG, STAINLESS STEEL, WALL MOUNTED 18" AFF, FURNITURE, WIREMOLD. (DISTRICT CONNECTION) |
| | DATA OUTLET, SINGLE GANG, STAINLESS STEEL, CEILING MOUNTED, SEE X/TX.X |
| | VOICE AND DATA OUTLET, FLOOR MOUNTED |
| | COAX OUTLET MOUNTED IN FLOOR BOX |
| | AV OUTLET, FLOOR MOUNTED |
| | TELE/DATA POLE SUPPLIED BY FURNITURE CONTRACTOR |
| BF | BASE FEED |
| S | SPEAKER |
| | SLEEVE |
| | LADDER RACK |
| | CABLE MANAGER FOR EIA EQUIPMENT RACK (SIZE AS INDICATED) |
| | STANDARD EIA EQUIPMENT RACK 7'x19" WIDE |
| | CAMERA CEILING MOUNTED |
| | CAMERA WALL MOUNTED |
| CP | CAMERA ON A POLE |
| CR | CARD READER |

## DRAWING INDEX


| SHEET NO. | DESCRIPTION |
|---|---|
| T0.1 | DRAWING INDEX, LEGEND, NOTES, AND ABBREVIATIONS |
| T2.1 | TECHNOLOGY ENLARGED ROOM PLAN |
| T6.2 | TECHNOLOGY LADDER RACK DETAILS |
| T6.3 | TECHNOLGY MOUNTING DETAILS |
| T6.5 | SIGNAL LINE DIAGRAM |


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TCOM CLASSROOM RENOVATION BUILDING 2


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REGISTERED PROFESSIONAL ENGINEER
DIOMEDES LIU
No. E10457
EXP.12/31/08
ELECTRICAL
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. # 01-108576
FILE # 41-C1
AC. FLS. SSS.
DATE 3/14/07

| rev. | date | issue |
|---|---|---|
| | 02.02.07 | DSA SUBMITTAL |
| | | DSA BACKCHECK |

key plan - building 2

STEINBERGARCHITECTS

| | | | |
|---|---|---|---|
| project no: | 06044 | date: | 03/15/07 |
| drawn by: | MVP | checked by: | JW |
| scale: | 1/4"=1'-0" | | |

TECHNOLOGY
LEGEND, NOTES, DRAWING INDEX, AND ABBREVIATIONS

T0.1

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Plotted Monday March 12, 2007 11:26am by mamoe