TEXT OF BULLETIN ON SHEET E1.1

| | |
|---|---|
| BULLETIN | #01 |
| DSA PLC | (C-2) |
| DSA APP. | (04-106128) |

## LIGHTING FIXTURE SCHEDULE

REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES

| TYPE | DESCRIPTION | CATALOG NO. | MOUNT | VOLT | LAMPS | WATTAGE | REMARKS |
|---|---|---|---|---|---|---|---|
| A1.1 (B1.1) | 4'-0 LAMP, INDIRECT/PARTIALLY PERFORATED FLUORESCENT FIXTURE WITH PRISMATIC | PEERLESS (LR83-4L1-U) | SURFACE | 277 | 3F32T8 | 205.00 | |
| A2.1 (B2.1) | SIMILAR TO FIXTURE TYPE "A4" EXCEPT 120 VOLT BALLAST | LITHONIA (WF10) | SURFACE | 120 | (2)F32T8 | 175.00 | |
| A3.1 (B3.1) | 4"Wx4' LENGTH FLUORESCENT FIXTURE WITH PRISMATIC ACRYLIC LENS | BELOW (NITHOEM | RECESSED | 277 | (1)F32T8 | 205.00 | |
| A4.1 (B4.1) | 8', 4 LAMP, FLUORESCENT FIXTURE WITH EMERGENCY BALLAST. | PRUDENTIAL (PRL-8-SQ-4W | SURFACE | 277 | (4)F32T8 | 505.00 | |
| A5.1 (B5.1) | 4', 2 LAMP, FLUORESCENT FIXTURE WITH EMERGENCY BALLAST. | PRUDENTIAL (PRL-4-SQ-2W | SURFACE | 277 | (2)F32T8 | 355.00 | |
| B1.1 (C1.1) | 8" DIA. COMPACT FLUORESCENT FIXTURE WITH CLEAR ALZAK REFLECTOR | GOTHAM (H)18 | RECESSED | 277 | (1)32TRF | 175.00 | |
| C1.1 (D1.1) | WALL MOUNTED COMPACT FLUORESCENT FIXTURE WITH POLY CARBONATE DIFFUSER. | LITHONIA (WPCW | SURFACE | 277 | (1)13W QUAD | 205.00 | |
| D1.1 (E1.1) | 13" DIA. HIGH INTENSITY DISCHARGE LIGHT FIXTURE | SENALS (MB13P) | SURFACE | 277 | (1)70W HIGH PRESSURE | 475.00 | |
| D2.1 (E2.1) | SIMILAR TO FIXTURE TYPE "D1" EXCEPT CONTAINS (1) COMPACT FLUORESCENT LAMP, 120 VOLT BALLAST, LISTED FOR WET LOCATIONS | SENALS (MB13PT) | SURFACE | 277 | (1)32WPL | 205.00 | |

TOPPE WOLFF FARROW Inc.
CONSULTING ENGINEERS
1001 Howard Avenue, Suite 100
San Mateo, CA 94401
TEL (415) 347-8200
FAX (415) 347-8201
E-mail:twf@twf.com

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College School District

ARCHITECT
BBY Architects
1000 Burnett Ave.
Concord, CA 94520
p 925.524.8400 f 925.246.6491

tBP
MECHANICAL
ENGINEERS
ENERGY
MANAGEMENT




| | |
|---|---|
| BULLETIN | #01 |
| DATE | 10/05/06 |
| DSA NO. | (04-106128) |
| THIS REVISES IN PART | |
| SHEET: | RE-01 |
| SHEET: | SK5-516 |

Los Medanos College
4CD Proj. #: L-565-B-23-SC
**Science Building**
RE-01

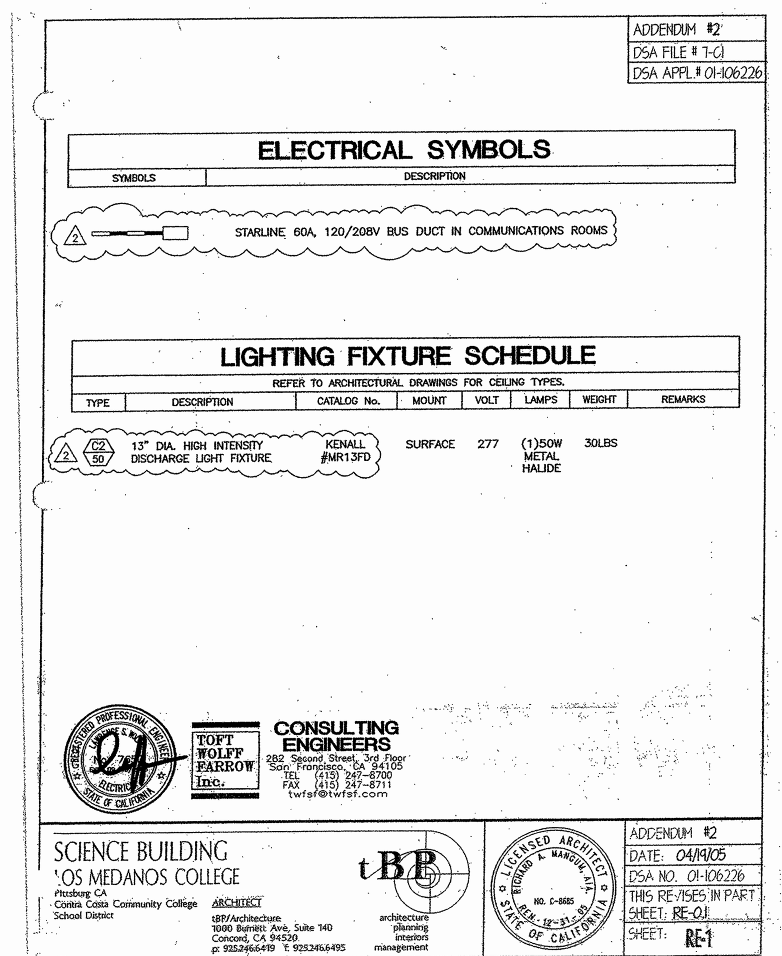
# LIGHTING FIXTURE SCHEDULE

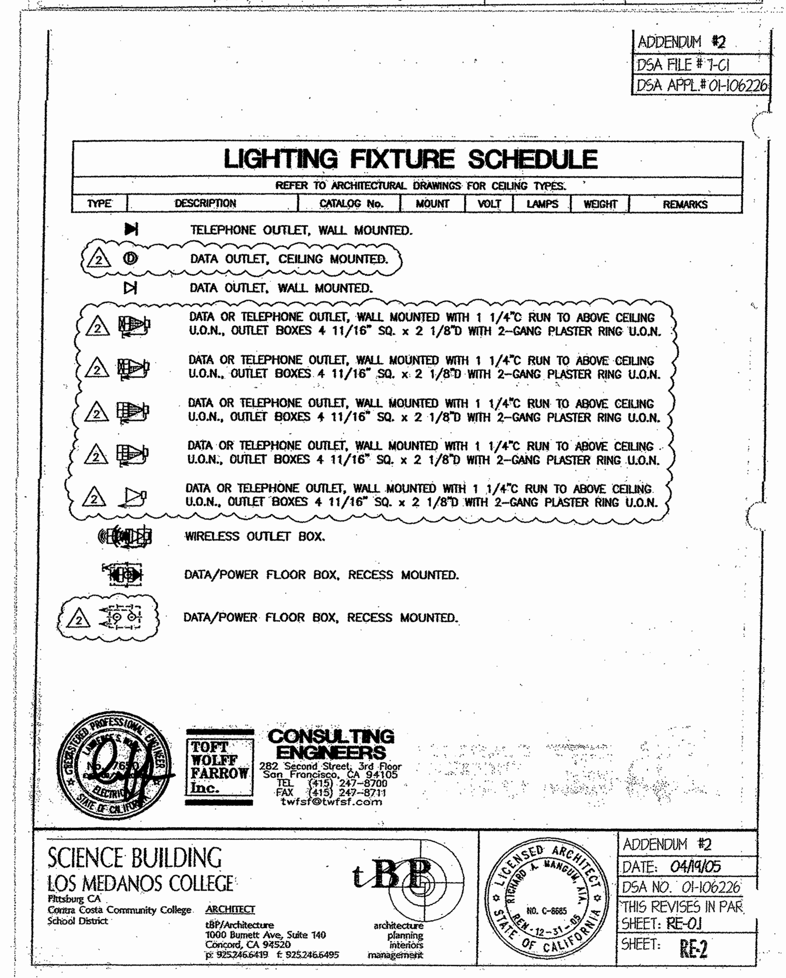
REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

| TYPE | DESCRIPTION | CATALOG No. | MOUNT | VOLT | LAMPS | WEIGHT | REMARKS |
|---|---|---|---|---|---|---|---|
| A1 / 62 | 2'x4', 2 LAMP FLUORESCENT FIXTURE WITH PARABOLIC LOUVER. 18 CELLS. | LITHONIA #2PM4 | RECESSED | 277 | 2F32T8 | 35LBS | |
| A2 / 70 | 2'x4', 2 LAMP FLUORESCENT FIXTURE WITH PARABOLIC LOUVER. DIMMING BALLAST. 18 CELLS. | LITHONIA #2PM4 | RECESSED | 277 | 2F32T8 | 35LBS | LUTRON HI-LUME DIMMING BALLAST |
| A3 / 70 | SIMILAR TO FIXTURE TYPE 'A2', ALSO CONTAINS EMERGENCY BALLAST. | LITHONIA #2PM4 | RECESSED | 277 | 2F32T8 | 35LBS | LUTRON HI-LUME DIMMING BALLAST |
| A4 / 62 | 4' INDUSTRIAL FLUORESCENT FIXTURE WITH REFLECTOR. EMERGENCY BALLAST. | LITHONIA #AF10 | SURFACE | 277 | 2F32T8 | 17LBS | |
| A5 / 62 | SIMILAR TO FIXTURE TYPE 'A1' EXCEPT ALSO CONTAINS AN EMERGENCY BALLAST. | LITHONIA #2PM4 | RECESSED | 277 | 2F32T8 | 35LBS | |
| A6 / 62 | 9"x4', 2 LAMP FLUORESCENT FIXTURE WITH PARABOLIC LOUVER. | LITHONIA #9PM0 | RECESSED | 277 | 2F32T8 | 33LBS | |
| A7 / 62 | SIMILAR TO FIXTURE TYPE 'A6' EXCEPT ALSO CONTAINS AN EMERGENCY BALLAST. | LITHONIA #9PM0 | RECESSED | 277 | 2F32T8 | 33LBS | |
| A8 / 62 | SIMILAR TO FIXTURE TYPE 'A4' EXCEPT IS 8' LENGTH, AND EMERGENCY BALLAST CONTAINS 2 LAMPS. | LITHONIA #AF10 | SURFACE | 277 | 2F32T8 | 35LBS | |
| A9 / 86 | SIMILAR TO FIXTURE TYPE 'A1' EXCEPT CONTAINS 3 LAMPS. | LITHONIA #2PM4 | RECESSED | 277 | 3F32T8 | 35LBS | |
| A10 / 70 | 2'x4', 2 LAMP FLUORESCENT FIXTURE WITH PRISMATIC LENS. DIMMING BALLAST. | LITHONIA #SP8 | RECESSED | 277 | 2F32T8 | 35LBS | LUTRON HI-LUME DIMMING BALLAST |
| A11 / 70 | SIMILAR TO FIXTURE TYPE 'A10' EXCEPT ALSO CONTAINS EMERGENCY BALLAST. | LITHONIA #SP8 | RECESSED | 277 | 2F32T8 | 35LBS | LUTRON HI-LUME DIMMING BALLAST |
| A12 / 62 | 2'x4', 2 LAMP FLUORESCENT FIXTURE WITH PRISMATIC LENS. | LITHONIA #SP8 | RECESSED | 277 | 2F32T8 | 35LBS | |
| A13 / 62 | SIMILAR TO FIXTURE TYPE 'A4' EXCEPT NO EMERGENCY BALLAST. | LITHONIA #AF10 | SURFACE | 277 | 2F32T8 | 17LBS | |
| A14 / 32 | 4' PERIMETER FLUORESCENT FIXTURE WITH PARABOLIC LOUVER. EMERGENCY BALLAST. | LITHONIA #RP | RECESSED | 277 | 1F32T8 | 35LBS | |
| A15 / 62 | SIMILAR TO FIXTURE TYPE 'A14' EXCEPT 8' LENGTH. | LITHONIA #RP | RECESSED | 277 | 2F32T8 | 50LBS | |
| A16 / 94 | SIMILAR TO FIXTURE TYPE 'A14' EXCEPT EXCEPT 12' LENGTH AND NO EMERGENCY BALLAST. | LITHONIA #RP | RECESSED | 277 | 3F32T8 | 65LBS | |
| A17 / 156 | SIMILAR TO FIXTURE TYPE 'A14' EXCEPT 20' LENGTH AND NO EMERGENCY BALLAST. | LITHONIA #RP | RECESSED | 277 | 5F32T8 | 75LBS | |
| A18 / 124 | 8' LENGTH INDIRECT OPEN FLUORESCENT FIXTURE WITH REFLECTOR. | PEERLITE #10CRM2 | PENDANT | 277 | 4F32T8 | 35LBS | |
| A19 / 124 | SIMILAR TO FIXTURE TYPE 'A18' EXCEPT CONTAINS AN EMERGENCY BALLAST. | PEERLITE #10CRM2 | PENDANT | 277 | 4F32T8 | 35LBS | |
| A20 / 86 | SIMILAR TO FIXTURE TYPE 'A9' AND ALSO CONTAINS AN EMERGENCY BALLAST. | LITHONIA #2PM4 | RECESSED | 277 | 3F32T8 | 35LBS | |
| A21 / 96 | SIMILAR TO FIXTURE TYPE 'A2' EXCEPT CONTAINS 3 LAMPS | LITHONIA #2PM4 | RECESSED | 277 | 3F32T8 | 35LBS | LUTRON HI-LUME DIMMING BALLAST |
| A22 / 96 | SIMILAR TO FIXTURE TYPE 'A21' EXCEPT ALSO CONTAINS AN EMERGENCY BALLAST. | LITHONIA #2PM4 | RECESSED | 277 | 3F32T8 | 35LBS | LUTRON HI-LUME DIMMING BALLAST |
| A23 | NOT USED — BULLETIN 51 | | | | | | |
| A24 / 62 | SIMILAR TO FIXTURE TYPE 'A4' EXCEPT 120 VOLT BALLAST | LITHONIA #AF10 | SURFACE | 120 | (2)F32T8 | 17LBS | |
| A25 / 32 | 4"Wx4' LENGTH FLUORESCENT FIXTURE WITH PRISMATIC ACRYLIC LENS | SELUX #M1NOEM | RECESSED | 277 | (1)F32T8 | 20LBS | |
| A26 / 124 | 8', 4 LAMP FLUORESCENT FIXTURE WITH EMERGENCY BALLAST. | PRUDENTIAL #WAL-8-SD-WM | SURFACE | 277 | (4)F32T8 | 50LBS | |
| A27 / 62 | 4', 2 LAMP FLUORESCENT FIXTURE WITH EMERGENCY BALLAST. | PRUDENTIAL #WAL-4-SD-WM | SURFACE | 277 | (2)F32T8 | 35LBS | |
| B1 / 35 | 8" DIA. COMPACT FLUORESCENT FIXTURE WITH CLEAR ALZAK REFLECTOR | GOTHAM #AF8 | RECESSED | 277 | (1)32TRT | 17LBS | |
| B2 / 35 | SIMILAR TO FIXTURE TYPE 'B1' EXCEPT ALSO CONTAINS AN EMERGENCY BALLAST | GOTHAM #AF8 | RECESSED | 277 | (1)32TRT | 20LBS | |
| B3 / 45 | 8" DIA. COMPACT FLUORESCENT FIXTURE WITH CLEAR ALZAK REFLECTOR AND DIMMING BALLAST | GOTHAM #AF8 | RECESSED | 277 | (1)32TRT | 20LBS | LUTRON HI-LUME DIMMING BALLAST |
| B4 / 45 | SIMILAR TO FIXTURE TYPE 'B3' EXCEPT ALSO CONTAINS AN EMERGENCY BALLAST | GOTHAM #AF8 | RECESSED | 277 | (1)32TRT | 20LBS | |
| B5 / 40 | SIMILAR TO FIXTURE TYPE 'B3' EXCEPT ALSO CONTAINS A WALL WASH LENS. | GOTHAM #AFW | RECESSED | 277 | (1)32TRT | 20LBS | LUTRON HI-LUME DIMMING BALLAST |
| B6 / 42 | 14" DIA. COMPACT FLUORESCENT FIXTURE WITH WHITE OPAL GLASS SHADE | BETA CALLO #ZEDOS 68-OP-SN | SURFACE | 277 | (1)40W CIRCLINE | 25LBS | |
| C1 / 17 | WALL MOUNTED COMPACT FLUORESCENT FIXTURE WITH POLY CARBONATE DIFFUSER. | LITHONIA #WPCW | SURFACE | 277 | (1)13W QUAD | 25LBS | |
| C2 / 125 | 13" DIA. HIGH INTENSITY DISCHARGE LIGHT FIXTURE | KENALL #MRBF-SL | SURFACE | 277 | (1)50W METAL HALIDE | 30LBS | |
| C3 | "NOT USED" — BULLETIN 51 | | | | | | |
| C4 / 50 | 7"DIA. COMPACT FLUORESCENT WITH FRESNAL LENS | GOTHAM #LGF | RECESSED | 277 | (1)42TRT | 17LBS | BULLETIN 7 |
| C5 / 100 | 100 WATT METAL HALIDE LIGHT FIXTURE WITH SILVER LOUVER. GASKETED | SELUX #QDISPWH100SV | SURFACE | 277 | (1)100W METAL HALIDE | 36LBS | |
| C6 | 11"x5"x3" LED STEP LIGHT WITH RED LAMP AND HORIZONTAL GRILL. | INTENSE #IFS90S-LED | RECESSED | 120 | LED | 10LBS | |
| E1 / 2 | SINGLE FACE GREEN LED EXIT SIGN. EMERGENCY BATTERY PACK | LITHONIA #LES | SURFACE | 277 | LED | 5LBS | |
| E2 / 2 | DOUBLE FACE GREEN LED EXIT SIGN. EMERGENCY BATTERY PACK | LITHONIA #LES | SURFACE | 277 | LED | 5LBS | |

# GENERAL NOTES

1. PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
2. ALL EMPTY CONDUITS SHALL BE SUPPLIED WITH NYLON PULL STRING.
3. EACH RECEPTACLE AND FIXED ELECTRICAL EQUIPMENT SHALL BE GROUNDED BY MEANS OF AN INSULATED COPPER CONDUCTOR (MINIMUM #12 AWG) SIZES IN ACCORDANCE WITH C.E.C. TABLE 250-95.
4. FOR TELEPHONE AND DATA OUTLETS, INSTALL A 3/4" CONDUIT WITH PULL STRING AND HOMERUN BACK TO TELEPHONE/DATA CLOSET. UNLESS OTHERWISE NOTED. TERMINATE CONDUIT WITH BUSHING IN CLOSET AT TELEPHONE/DATA BACKBOARD.




# ELECTRICAL SYMBOLS

| SYMBOL | DESCRIPTION |
|---|---|
| | CONCEALED CONDUIT IN CEILING OR IN WALL. |
| | CONDUIT CONCEALED IN OR UNDER FLOOR. |
| | EXPOSED CONDUIT. |
| | CONDUIT TURNING UP. |
| | CONDUIT TURNING DOWN. |
| A-1,3 | HOMERUN TO PANEL "A", CIRCUIT NUMBERS 1 AND 3. |
| | FLEXIBLE CONDUIT. |
| | REMOVE OR ABANDON CONDUIT, AS NOTED. REMOVE EXISTING CONDUCTORS. |
| T | TELEPHONE SYSTEM CONDUIT. |
| D | DATA SYSTEM CONDUIT. |
| J | CEILING MOUNTED JUNCTION BOX. |
| J | WALL MOUNTED JUNCTION BOX. |
| F J | UNDER FLOOR JUNCTION BOX. |
| 3 a | FLUORESCENT LIGHTING FIXTURE CONTROLLED BY SWITCH "a", ON CIRCUIT "3". TYPICAL DESIGNATION FOR ALL OUTLETS. |
| | FLUORESCENT LIGHTING FIXTURE. SHADING INDICATES FIXTURE CONTAINS EMERGENCY BATTERY PACK. U.O.N. NL = NIGHT LIGHT |
| | FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED. |
| | "STRIP" FLUORESCENT LIGHTING FIXTURE. |
| | INCANDESCENT, COMPACT FLUORESCENT OR HIGH INTENSITY DISCHARGE LIGHTING FIXTURE, CEILING MOUNTED, AS NOTED. |
| | INCANDESCENT, COMPACT FLUORESCENT OR HIGH INTENSITY DISCHARGE LIGHTING FIXTURE, WALL MOUNTED, AS NOTED. |
| | INCANDESCENT, COMPACT FLUORESCENT OR HIGH INTENSITY DISCHARGE LIGHTING FIXTURE, RECESSED CEILING MOUNTED, AS NOTED. |
| L | LANDSCAPE LIGHT FIXTURE, POLE MOUNTED, AS NOTED. |
| | EXIT LIGHT, CEILING MOUNTED WITH INDICATED DIRECTIONAL ARROWS. SHADED AREA(S) INDICATES ILLUMINATED FACE(S). |
| | EXIT LIGHT, SAME AS ⊗ EXCEPT WALL MOUNTED. |
| S | SINGLE POLE SWITCH. |
| $S_3$ | "3-WAY" SWITCH. |
| $S_M$ | MANUAL MOTOR STARTER. |
| $S_a$ | SWITCH CONTROLLING OUTLET "a". |
| $S_D$ | WALL DIMMER. |
| $S_K$ | KEY OPERATED SWITCH. |
| 1 | ZONE CONTROL SWITCH FOR LIGHTS, NUMBER INDICATES ZONE CONTROLLED. |
| S | OCCUPANCEY SENSOR, WALL MOUNTED |
| So | OCCUPANCEY SENSOR, CEILING MOUNTED |
| | DUPLEX CONVENIENCE RECEPTACLE, WALL MOUNTED. 15" MIN. FROM FLOOR. |
| | SPECIAL PURPOSE RECEPTACLE, RATING AS NOTED, WALL MOUNTED. |
| F | COMBINATION POWER/SIGNAL POKE-THRU BOX. F = FURNITURE FEED POKE-THRU. |
| | DOUBLE DUPLEX RECEPTACLE UNDER ONE COVER PLATE. |

# ELECTRICAL SYMBOLS

| SYMBOL | DESCRIPTION |
|---|---|
| | TELEPHONE OUTLET, FLOOR MOUNTED. |
| | TELEPHONE OUTLET, WALL MOUNTED. |
| D | DATA OUTLET, FLOOR MOUNTED. |
| | DATA OUTLET, WALL MOUNTED. |
| | DATA OUTLET, WALL MOUNTED. |
| | DATA OUTLET, WALL MOUNTED. |
| | DATA OUTLET, WALL MOUNTED. |
| | DATA OUTLET, WALL MOUNTED. |
| | WIRELESS OUTLET BOX. |
| | DATA/POWER FLOOR BOX, RECESS MOUNTED. |
| | DATA/POWER FLOOR BOX, RECESS MOUNTED. |
| | SINGLE SNAKETRAY, SIZE AS NOTED |
| | DOUBLE SNAKETRAY, SIZE AS NOTED |
| | PANELBOARD (120/208V). |
| | PANELBOARD, FLUSH MOUNTED. |
| | PANELBOARD (277/480V). |
| | PANELBOARD, FLUSH MOUNTED. |
| | POWER DISTRIBUTION PANEL OR SWITCHBOARD, AS INDICATED. |
| 3 | MOTOR OUTLET. NUMBER INDICATES HORSEPOWER RATING. |
| 3P 30 15 | DISCONNECT SWITCH, SIZE AS INDICATED. (30 AMPERE RATING, 3-POLE). NON-FUSIBLE UNLESS FUSE SIZE (15 AMPERE) IS SHOWN ALONGSIDE SWITCH. |
| | MAGNETIC MOTOR CONTROLLER. |
| | FUSE; TYPE AND SIZE AS NOTED. |
| | ELECTRICAL CONNECTION. |
| | MOLDED CASE CIRCUIT BREAKER, STATIONARY TYPE. |
| 3 | NOTE REFERENCE: "SEE NOTE #3 ON THIS SHEET". |
| A / 150 | LIGHTING FIXTURE TYPE "A", 150 WATTS INPUT; SEE FIXTURE SCHEDULE. |
| A / 10 | DETAIL REFERENCE: "SEE DETAIL 'A' ON SHEET E-10". |
| 5 | EQUIPMENT ITEM NUMBER. |

ABBREVIATIONS:

| | | | |
|---|---|---|---|
| A | AMPERE | KW | KILOWATT |
| AFF | ABOVE FINISHED FLOOR | MCM | THOUSAND CIRCULAR MILS |
| AL | ALUMINUM | NTS | NOT TO SCALE |
| C | CONDUIT | NL | NIGHT LIGHT |
| CAT | CATALOG | P | POLE |
| CB | CIRCUIT BREAKER | (RL) | RELOCATE |
| CO | CONDUIT ONLY | (RLD) | RELOCATED |
| CU | COPPER | (R) | REMOVE |
| G | GROUND | (RT) | RETAIN |
| GFI | GROUND FAULT INTERRUPTER | TYP | TYPICAL |
| (E) | EXISTING | UON | UNLESS OTHERWISE NOTED |
| (N) | NEW | V | VOLT |
| KVA | KILOVOLT AMPERE | VIF | VERIFY IN FIELD |
| | | WP | WEATHERPROOF |

NOTE: SYMBOLS LISTED ARE FOR GENERAL USE. DISREGARD ANY SYMBOLS THAT ARE NOT USED ON PLAN.

**S. J. AMOROSO**
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00
Subj.: Overhead Conduit Fasteners
RFI No: 339
Reference (dwg, spec.):
Subcontractor RFI: EWS 29
Reply Requested By: 9/13/06

INFORMATION REQUESTED: Date: 9/6/06

Please note the attached Edward Scott Electric RFI No. 29 regarding overhead conduit fasteners. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:

TWF takes no exception to the proposed conduit fasteners, but recommends that the conduit fastener cut sheets be forwarded to the structural engineer for his review and comment.

Larry Lai/TWF - 9/25/06

DASSE takes no exception to proposed conduit fasteners for conduits up to 1"φ. 10-3-06

**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 29 R.F.I. Date 9/5/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: NONE
LOCATION: THROUGHOUT

POTENTIAL COST IMPACT: COST / OTHER / NO IMPACT / ✓ SCHEDULE / LABOR / MATERIAL

INFORMATION REQUESTED: IF NO OBJECTIONS WE WOULD LIKE TO USE THESE CONDUIT FASTENERS WITH 1/4" THREADED ROD TO SUPPORT OVER HEAD CONDUITS SIZES 1/2", 3/4" & 1". PLEASE SEE ATTACHED

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE. A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

**Bulletin No.07**

Date: February 1, 2006
To: S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District, DSA No. 01-106226; File # 7-C1, tBP P/N 20247.00

Description: REFERENCE: E-0.1, E-1.1, Submittal #20:
Provide wall mounted light Kenall #MR17EL in locations as indicated on SKRE-07.1 to SKRE-07.5 in place of downlights at entrance canopies. Fixture is to be located +9'-0" AFF typical. Provide Re-submittal #20 for C-4.

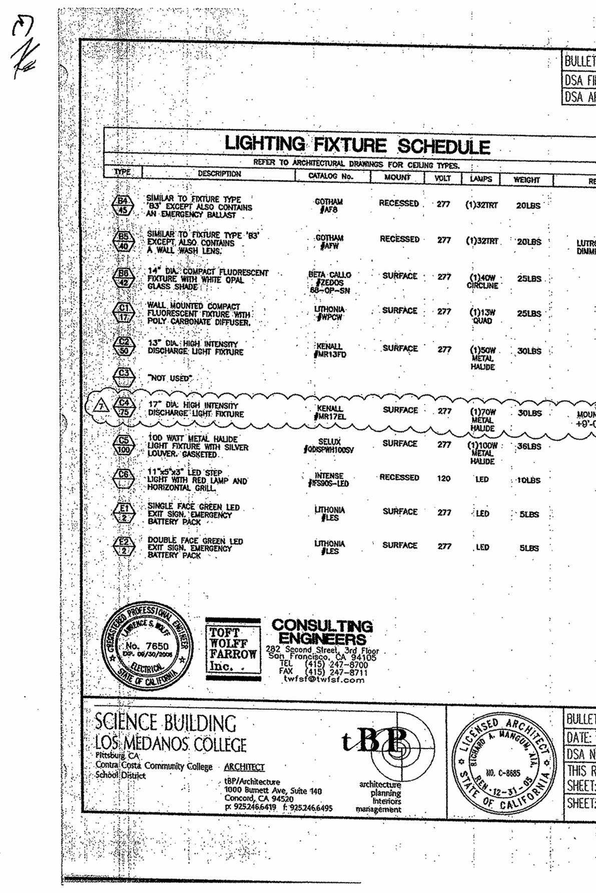
Issued By: Architect
Requested By: Architect
Reason: Lighting coordination
Enclosures: SKRE-07.1 to SKRE-07.5

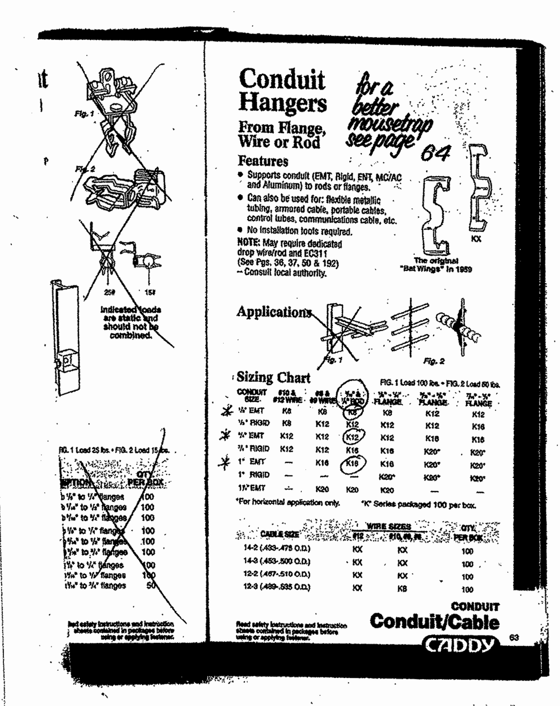
| Copies: | Name: | Organization: |
|---|---|---|
| 1 copy | Mark Delgado | S. J. Amoroso |
| 1 copy | Cam Perrotta | CCCCDistrict |
| 1 copy | Bob Harke | Inspector of Record |
| 1 copy | Tom Beckett | tBP/Architecture |
| 1 copy | File 20247.00/7.4 | tBP/Architecture |
| 1 copy | Larry Lai | Toft Wolff Farrow Inc. |

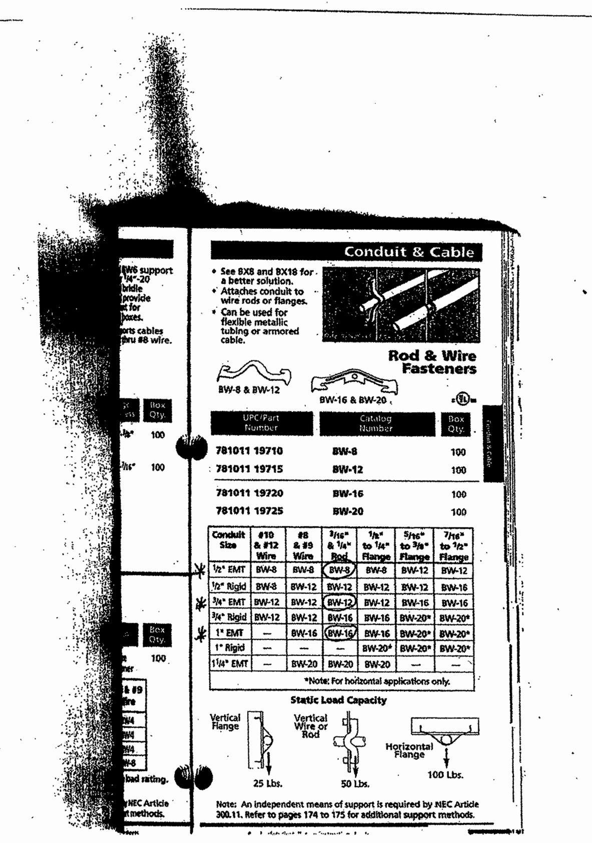
Action:
- ☒ For Information/Clarification only
- ☐ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
- ☐ Requires DSA review and approval
- ☐ Proceed as authorized by District

cc: EW SCOTT

tBP/Architecture, 1000 Burnett Ave. Suite 140, Concord, CA. 94520. ph: 925.246.6419. fax: 925.246.6495




tBP architecture planning interiors management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architect

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TEL (415) 247-8700
FAX (415) 247-8711
twfsf@twfsf.com
consultant


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. 01-106226
AC FLS SS
DATE 1-11-05

name
address
city, state, zip
ph: fx:
agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number: 20247.00
file name: SYMBOLS
drawn by: LLAI checked by: LSW
date: NOVEMBER 15, 2004

rev date description

drawing title:
SYMBOLS, NOTES AND LIGHT FIXTURE SCHEDULE

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.: E-0.1

TWF #03058.00

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-8495

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

tBP p/n: 20247.00

Subj.: Power Pull Box "BB"

RFI No: **496**
Subcontractor RFI: EWS 72

Reference (dwg, spec.): E0.2

Reply Requested By: 3/13/07

**INFORMATION REQUESTED:** Date: 3/6/07

Please note the attached EWS RFI No. 72 regarding Power Pull Box "BB" which they need to know which High Voltage Loop to plug into the box. EWS was advised to test the loops and plug into the hot one due to the fact that they may be miss labeled. Please advise.

**SUGGESTED SOLUTION:**

Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

**RESPONSE:** DATE:

Pursuant to verbal discussion with Joe of Scott electric at site on 3/8/07, there is one 5KV electrical circuit that consists of both an "A" and "B" loop. Both loops should be energized.
Primary electrical subcontractor to verify prior to any work proceeding. If both loops are energized, connection can be at either "A" or "B" disconnectable elbow taps/sockets.

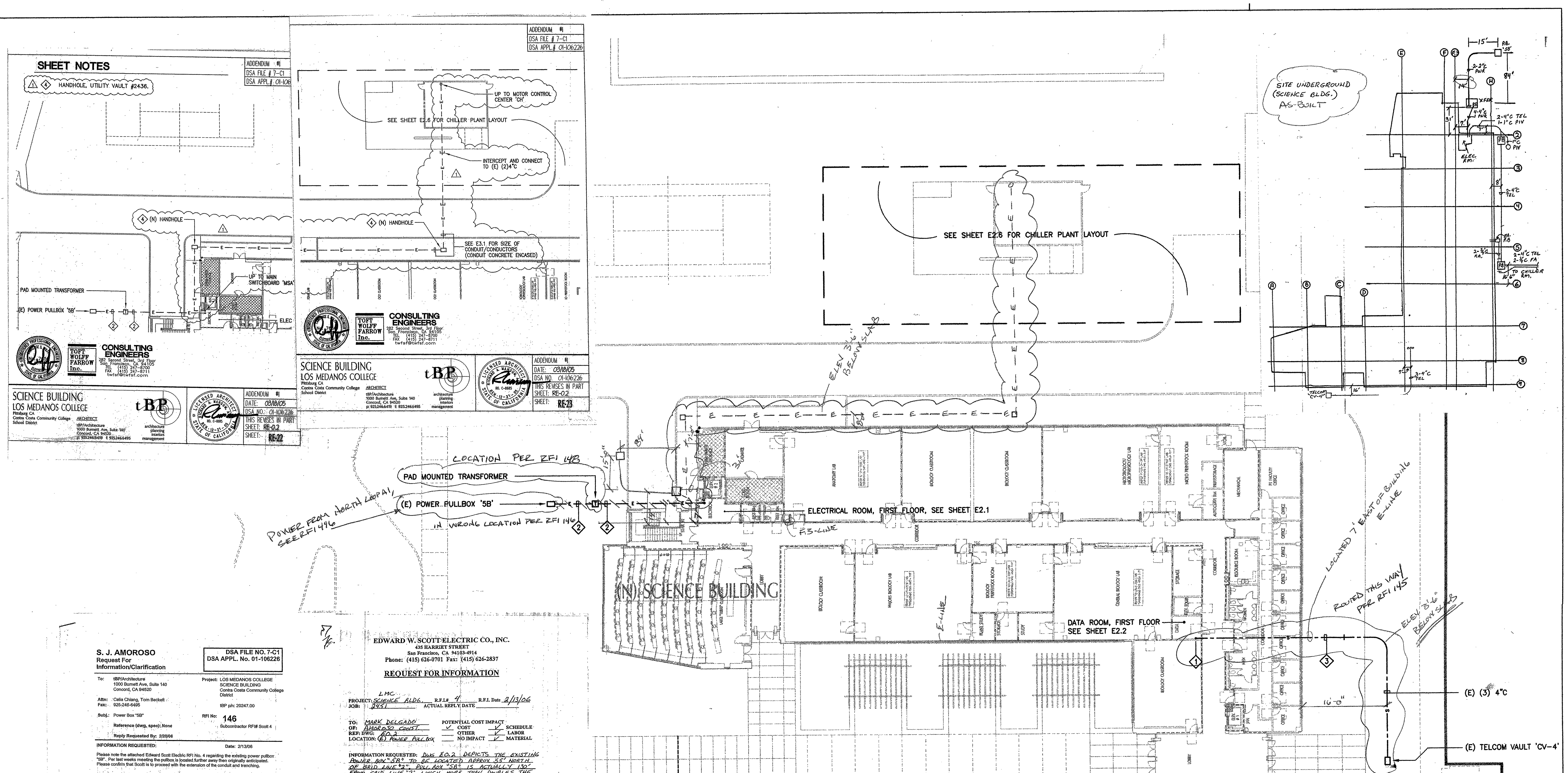
Tom Beckett

3/7/07

USED NORTH LOOP "A"

RFI # 000
Page 1

Los Medanos College
4CD Proj.# : L-505-B-23-SC
**Science Building**




## S. J. AMOROSO
**Request For Information/Clarification**

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: Power Box "5B"
RFI No: **146**
Reference (dwg, spec): None
Subcontractor RFI# Scott 4
Reply Requested By: 2/20/06

INFORMATION REQUESTED: Date: 2/13/06

Please note the attached Edward Scott Electric RFI No. 4 regarding the existing power pullbox "5B". Per last weeks meeting the pullbox is located further away then originally anticipated. Please confirm that Scott is to proceed with the extension of the conduit and trenching.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 2/16/06
provide cost proposal for add'l footage required and additional 4" spare conduit to be placed with 4" conduit run req'd. Conduit run to be encased with concrete—red dye @ top surface of concrete. Location of transformer to be provided by RFI 148.

Attachments:

By: T. Beckett

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 2/13/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | |
| tBP / ARCHITECTURE | S.J. AMOROSO | |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 4 R.F.I. Date 2/13/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E0.2
LOCATION: (E) POWER PULL BOX

POTENTIAL COST IMPACT: ✓ COST ✓ SCHEDULE; OTHER ✓ LABOR; NO IMPACT ✓ MATERIAL

INFORMATION REQUESTED: DWG E0.2 DEPICTS THE EXISTING POWER BOX "5B" TO BE LOCATED APPROX 35' NORTH OF GRID LINE "2". PULL BOX "5B" IS ACTUALLY 130' FROM GRID LINE "2" WHICH MORE THAN DOUBLES THE AMOUNT OF TRENCHING & WILL ALSO SIGNIFICANTLY ADD TO THE AMOUNT OF 4" CONDUIT REQUIRED, WHICH WILL HAVE A COST IMPACT.

REPLY REQUIRED BY: ASAP!! SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE. A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

## S. J. AMOROSO
**Request For Information/Clarification**

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: Pad Mounted Transformer
RFI No: **148**
Reference (dwg, spec): None
Subcontractor RFI# Scott 5
Reply Requested By: 2/21/06

INFORMATION REQUESTED: Date: 2/15/06

Please note the attached Scott Electric RFI No. 5 regarding the dimensions for the location of the Pad Mounted Transformer. Please advise.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 2.27.06
Southwest corner of transformer pad to be located 31'-0" north of grid line 2 and 24'-0" west of grid line H. This should place the south edge of the pad approximately 4'-0" north of the drive adjacent to the freight elevator entrance. Pad size to be determined by transformer submittal requirements, which on past projects for transformers of specified size are approximately 10'-0" square.

Attachments:

By: C. Chiang/tBP

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 2/15/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | |
| tBP / ARCHITECTURE | S.J. AMOROSO | 2.27.06 |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG R.F.I.# 5 R.F.I. Date 2/13/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E0.2
LOCATION: PAD MOUNTED TRANSFORMER

POTENTIAL COST IMPACT: COST ✓ SCHEDULE; OTHER LABOR; NO IMPACT MATERIAL

INFORMATION REQUESTED: THERE ARE NO DIMENSIONS FOR THE LOCATION OF THE PAD MTD. TRANSFORMER. THE LOCATION SCALES TO 40' NORTH OF GRID LINE "2". IS THIS ACCEPTABLE?

REPLY REQUIRED BY: ASAP!! SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE. A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

## S. J. AMOROSO
**Request For Information/Clarification**

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: 4" Telecom Conduit Routing
RFI No: **145**
Reference (dwg, spec): None
Subcontractor RFI# Scott 3
Reply Requested By: 2/20/06

INFORMATION REQUESTED: Date: 2/13/06

Please note the attached Edward Scott Electric RFI No. 3 regarding the 3-4" Telecom Conduits routed east from Telecom Vault "CV-4". Please advise regarding the routing of these pipes.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 2/15/06
PER JOBSITE REVIEW AND MEETING — CONTRACTOR may remove (E) STUB AT CV-4 AND INSTALL NEW CONDUIT RUN TO ENTER BUILDING AS NOTED, ON DWG E0.2. AT 90° BEND INTO BUILDING — CONTRACTOR TO UTILIZE 8' RADIUS — WHICH CAN BE ACCOMPLISHED WITH 2 48" 45 degree els. AT 90° RADIUS UP INTO SLAB @ BLD INTERIOR — preference is for 48" radius el — IF REQ'D 36" RADIUS EL MAY BE USED at THIS location. Please provide cost proposal — OR NTE T&M WITH DAILY

Attachments: INSPECTOR VERIFICATION OF TIME AND MATERIALS.

By: T. BECKETT

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 2/13/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | |
| tBP / ARCHITECTURE | S.J. AMOROSO | |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 3 R.F.I. Date 2/9/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E0.2
LOCATION: SOUTH OF SCIENCE BLDG.

POTENTIAL COST IMPACT: ✓ COST ✓ SCHEDULE; OTHER ✓ LABOR; NO IMPACT ✓ MATERIAL

INFORMATION REQUESTED: CONTRACT DWG. E0.2 DEPICTS THE (E) 3-4" TELCOM CONDUITS ROUTED EAST FROM TELCOM VAULT "CV-4" AND TURNING NORTH TOWARDS THE DATA RM. EAST OF GRID LINE "E", WHERE WE ARE TO COMPLETE THE RUN TO THE DATA RM. THE CONDUITS ACTUALLY TURN IN NEAR GRID LINE "C". ROUTING THE CONDUITS FROM THIS POINT WOULD REQUIRE THE EQUIVALENT OF 450° OF BENDS DUE TO THE FOUNDATIONS. THE CONDUITS NEED TO ENTER THE BUILDING AS SHOWN ON DWG. E0.2 WHICH WILL REQUIRE AN ADDITIONAL 75' OF TRENCHING AND 230' OF CONDUIT WHICH WILL HAVE A COST IMPACT.

REPLY REQUIRED BY: 2/17/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE. A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

## S. J. AMOROSO
**Request For Information/Clarification**

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: PVC Piping per Section 16050
RFI No: **137**
Reference (dwg, spec):
Subcontractor RFI#
Reply Requested By: 2/15/06

INFORMATION REQUESTED: Date: 2/8/06

Per John Lambert's letter all telecom building entrance pipe is supposed to be 4 inch schedule 40 PVC TC-2. Per Note 3 on 3.02 it is called out as 4" C NEMA TC-14A Heavy Wall Epoxy Fiberglass Conduits. Please advise on which pipe is to be used.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 2.23.06
4-inch schedule 40 PVC TC-2 conduit with 8-ft radius bend and (2) 45-degree ells in the horizontal run and 48-inch radius rigid ells at the entrance to the rooms as installed is acceptable.

Attachments:

By: J. Lambert/IDA

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 2/8/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | 2.08.06 |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | 2.23.06 |
| tBP / ARCHITECTURE | S.J. AMOROSO | 2.23.06 |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

## SHEET NOTES

1. STUB (3) 4"C UP THROUGH FLOOR INTO FIRST FLOOR DATA ROOM. COORDINATE LOCATION OF STUB-UPS WITH TELCOM.
2. FOR SIZE OF CONDUIT/CONDUCTORS SEE DIAGRAM ON SHEET E3.1.
3. EXTEND EXISTING (3)4"C WITH (3) NEW 4"C NEMA TC-14A HEAVY WALL EPOXY FIBERGLASS CONDUITS FROM THE POINT THAT THE EXISTING CONDUITS ARE INTERCEPTED. THE NEMA TC-14A HEAVY WALL EPOXY FIBERGLASS BUILDING ENTRANCE CONDUITS SHALL TRANSITION TO WRAPPED GALVANIZED RIGID STEEL (WGRS) AT THE VERTICAL UPTURNS THROUGH THE SLAB. THE NEMA TC-14A HEAVY WALL EPOXY FIBERGLASS CONDUIT TO WGRS TRANSITION SHALL BE SEALED WITH HEAT SHRINK TUBING OR ADHESIVE BACK WRAPPING. JOINT COMPOUND SHALL BE USED ON THE CONDUIT THREADS. EXTEND WGRS 3" ABOVE FINISHED FLOOR GRADE AND PROVIDE BUSHING WITH TEMPORARY SEAL TO PROTECT CONDUITS DURING REMAINING CONSTRUCTION. ALL NEMA TC-14A HEAVY WALL EPOXY FIBERGLASS CONDUIT BENDS FOR INTERBUILDING ENTRANCES SHALL BE 11-1/4, 22-1/2, 45 AND 90 DEGREE FACTORY MADE BENDS WITH AN 8'-0" MINIMUM BEND RADIUS.

RFI 137

CAMPUS NORTH

TWF #03058.00

tBP architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

TOPT WOLFF FARROW Inc.
CONSULTING ENGINEERS

consultant

agency

owner

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE
Contra Costa Community College District

tBP project number: 20247.00
file name:
drawn by: LLAI checked by: LSH
date: NOVEMBER 15, 2004

drawing title:
SITE PLAN - ELECTRICAL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
E0.2

**S. J. AMOROSO**
Request For
Information/Clarification

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
IBP p/n: 20247.00
Subj.: Low Voltage Lighting Switches
RFI No: **334**
Reference (dwg, spec.): A2-LP2-19, M1.1, M1.2, 4AB-1
Subcontractor RFI: EWS 28
Reply Requested By: 9/6/06

INFORMATION REQUESTED: Date: 8/30/06

Please note the attached EWS RFI No. 28 regarding the low voltage lighting switches in rooms 143, 203 and 246. Per a conversation between Larry Lai and Joe Jimenez these switches are to be mounted at 54" AFF to center. Please confirm.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:
To clarify, the conversation was between Larry Lai of Toft Wolff Farrow and Joe Jimenez of Scott Electric.
Due to limited space for the required number of switch outlet boxes in rooms 143, 203, and 204, the outlet box for the zone control switch is recommended to be installed below the regular room light switches. In order to comply with ADA.

Larry Lai/TWF - 9/8/06

Please note that the reach height limit for ADA front approach is 48" AFF. See attached CBC.

Vanessa Ling/LBP - 9/8/06

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. RFI# 28 R.F.I. Date 8/25/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: E1.1, E1.4
LOCATION: RM. 143, 216, & 203

POTENTIAL COST IMPACT: ___ COST ___ OTHER ___ NO IMPACT ___ SCHEDULE ___ LABOR ___ MATERIAL

INFORMATION REQUESTED: AS PER PHONE CONVERSATION ON 8/24/06 WITH LARRY LAI OF TOFT WOLFF FARROW LOW VOLTAGE LTG. SWITCHES IN ROOMS 143, 203 & 246 WILL BE MOUNTED 4'-0" AFF TO CENTER.

REPLY REQUIRED BY: SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.
RESPONSE:
DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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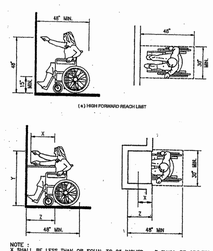
FIGURE 11B-60




(4) HIGH FORWARD REACH LIMIT

(5) MAXIMUM FORWARD REACH OVER AN OBSTRUCTION

FIGURE 11B-60—FORWARD REACH

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**Bulletin No.51**

Date: 11/9/2006
To: S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065
Project: **LOS MEDANOS COLLEGE SCIENCE BUILDING**, Contra Costa Community College District, DSA No. 01-106226; File # 7-C1, IBP P/N 20247.00
Description: REFERENCE: Sheet A8-2, A8-3, E-1.1, E-1.2, E-1.3, E-1.4 ; RFI #372, 394
Clarification to lighting fixtures in Suite #1 and 2.

Clarification to lighting at Suite #1:
1. At First Floor:
   (2) ceiling mounted B6 under the intermediate landing are revised to (2) B2.
   (2) B6 adjacent to CWD shown SKS-S1-3 are deleted per RFI 372.
2. At Second Floor: (2) B6 are deleted as shown on SKS-S1-4.
3. At Roof:
   (1) A23 wall mount indirect fixture is added as shown on: SKS-S1-5.
   (1) B3 recessed light is revised to a C3 surface mount due to shallow framing depth at exterior canopy.

Provide cost proposal for credit of (10) deleted B6, (1) deleted B3; (2) added B2, (1) added A23, (2) added C3.

Clarification to lighting at Suite #2:
4. At First Floor: (2) B6 surface are revised to (2) B2-recessed. See SKS-S1-1.
5. At Second Floor: See SKS-S1-2
   (3) B6 surface are revised to (3) B2-recessed.
   (2) B6 surface at wall beside B6.
   (1) indirect wall mount shown: 1/A8-2 is deleted.

Provide cost proposal for credit of (3) deleted B6, (1) deleted indirect, (3) added B2.

Issued By: Architect
Requested By: Architect
Reason: Clarification to lighting at State #1 and 2.
Enclosures: SKS-S1-1, SKS-S1-2, SKS-S1-3, SKS-S1-4, SKS-S1-5, SKS-S1-6

IBP/Architecture · 1000 Burnett Ave. Suite 140 · Concord, CA. 94520 · ph: 925.246.6495 · fax: 925.246.6496

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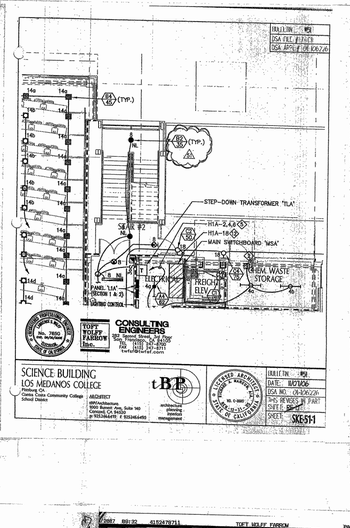


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FRIDAY 1:00 p

**Job 682**

From: Jim Weaver [RWeaver@bparchitecture.com]
Sent: Wednesday, April 25, 2007 5:13 PM
To: Job 682
Cc: Larry Lai
Subject: RE: Sheets RE-1.1 and RE-1.2

Mark:
The answer is that there are no RE-1.1 or RE-1.2 sheets.
Sorry for any confusion but please post references to the E-1.1 and E-1.2 sheets.
Let me know if any question.
Thanks,
Jim

From: Job 682 [mailto:job682@sjamoroso.com]
Sent: Friday, April 20, 2007 7:54 AM
To: Jim Weaver
Subject: FW: Sheets RE-1.1 and RE-1.2

Jim,

I forgot to rag you about this question when you were on-site yesterday. So, I am re-emailing it today. Look into this? Thank you.

Mark Delgado
Project Manager
S.J. Amoroso Construction
Los Medanos College Science Building
phone (925) 427-7587

---Original Message---
From: Job 682
Sent: Friday, April 20, 2007 3:32 PM
To: Jim Weaver (jimweaver@bparchitecture.com)
Subject: Sheets RE-1.1 and RE-1.2

Jim,

I am going back and double checking Bulletins since I tend to miss these on my as-builts. In going back to review Bulletin 51, I noticed something odd.

The sketch SKE-S1-1, this sketch is to modify sheet RE-1.1 while sketch SKE-S1-3 is to modify sheet RE-1.2. The problem is, I don't have either sheet RE-1.1 nor RE-2.2. What I do have is sheets RE-2.1, RE-2.2, RE-2.3 and RE-2.4.

Can you please look into this and clarify?

4/26/2007

---

**S. J. AMOROSO**
Request For
Information/Clarification

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
IBP p/n: 20247.00
Subj.: Type C5 Fixture Installation and waatherproofing
RFI No: **364.1** (Revised 11/3/06)
Reference (dwg, spec.):
Subcontractor RFI:
Reply Requested By: 10/25/06

INFORMATION REQUESTED: Date: 10/19/06

Via response to RFI 364, we have been provided information regarding in-wall backing and attachment of the C5 fixtures to the wall. However, we are unable to locate details regarding the interface between these fixtures and metal panels nor are we able to locate details addressing how to weather seal these fixtures when they are attached to the wall. Please provide the needed details.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:
See attached sketch SKA364.2, please note that this detail is original provided by Joe Ramey/Pacific Electric's shop drawing detailer.

Vanessa Ling/LBP - 10/31/06

The (4) C5 wall mount fixtures will be deleted. Provide credit for all the light fixtures, electrical work, mounting, labor, etc.
See future response to RFI #407 for site fixtures replacement of building mounted lights.

Vanessa Ling/LBP - 11/1/06

RFI # 000
Page 1

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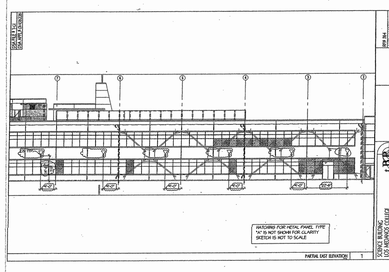


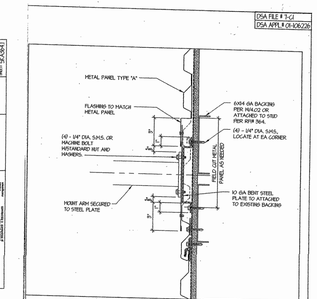


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**S. J. AMOROSO**
Request For
Information/Clarification

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
IBP p/n: 20247.00
Subj.: Depressed slab at chemical storage room, room 138
RFI No: **503**
Reference (dwg, specs.): C-1.18, A5-3, A-1.1, S.01,
Subcontractor RFI:
Reply Requested By: 3/21/07

INFORMATION REQUESTED: Date: 3/14/07

Per sheets A0-2 and A0-8, the slab is depressed 4 ½" in the area of the chemical storage room, 138.
Per sheet C1.18, finish floor elevation is 73.3.
This combination of facts presents a couple of challenges. First, upon entering the room from the sole entrance, a door from the adjacent hallway, we are presented with a 4 ½" drop in elevation which may pose ADA challenges as well as difficulty in moving materials in and out of the room. This door is set per the contract documents, so it is not an issue of incorrect door height at this location.
Second, the floor drain was set relative to finish floor elevation of 73.3 so that now the drain is higher than the floor.
Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:
1. Provide 2-1/2" of level mortar/grout.
2. Lower existing drain and cleanout to level of grout fill and cap in place with removable metal cap.
3. Provide and install 2" corrosion resistant grate flooring system. DuraDek pultruded bar type grating or equal. Gray color. (See attached cut sheet).
4. Revise existing light switch, lighting fixture and power receptacle with explosionproof fixtures/boxes. (See attached cut sheets).

Jim Weaver / IBP Architecture
R. Cate / RFD
D. Weston / Ainsworth Associates
L. Lai / TWF

RFI # 000
Page 1

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TOFT WOLFF FARROW PAGE 05/05

**2A-4 EFS and EFD Enclosures with General Use Snap Switches Front Operated**

Cl. I, Div. 1 & 2, Groups B*,C,D Explosionproof
Cl. II, Div. 1, Groups E,F,G Dust-Ignitionproof
Cl. II, Div. 2, Groups F,G Raintight
Cl. III Wet Locations
NEMA 3,7*BCD,9EFG,12

**Application:**
EFS and EFD enclosures are installed in a rigid metallic conduit system in hazardous locations to protect from explosion hazards. • To prevent entry of particles and water from falling, splashing, or hose directed against the enclosure. • Explosion proof switch and receptacle units are used in hazardous locations such as petroleum refineries, chemical manufacturing plants, gasoline tank loading facilities, grain elevators, paint processing plants, plastics processing, flammable storage areas, or metal handling or finishing areas where explosive dust may remain hazardous given enough time. • In non-hazardous areas where sturdy, reliable enclosures are required.

**Features:**
• Cast aluminum construction • Lined with resin-impregnated asbestos • Mounting lugs and bezel flanged holes with ½ NPT threaded • Large round-type screws for fastening covers to bodies. • Bottom hole for pushbutton/switch operator • Threaded hub shafts and bushings are cast as part of the enclosure.

**Standard Materials:**
• Bodies and covers: Aluminum alloy • Shaft: stainless steel • Shaft bushings: stainless steel

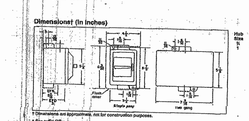
**Standard Finishes:**
• Primer coat alloy • electrodeposited and baked epoxy finish • Exterior steel: natural

**Certifications and Compliances:**
• NEC Article 501 and CEC Section 18 • Underwriters Laboratories Inc. Standards for Safety Hazardous (Classified) Locations UL 1203 • Canadian Standards Association Standard C22.2 No. 30

**Options:**
Suffix to be Added to Catalog No.
Description
• Two gang bottom, three, four or five gang bodies can be supplied with combinations of blanks filled for one gang switch or receptacle. Add suffix "B" to catalog number for blank plate. Specify number of gangs. • Front operating switch ..... -S • Front operating switch with duplex receptacle ..... -SR • Duplex with GFI, snap switch and receptacle as follows: ..... -SRG

| Type 5A Tiles | AC-Rated Switch Switch |
|---|---|
| Overload | Rated Amp. ratings. Power Factor .75-.85 |
| Non-Inductive Endurance | 10,000 operations, 10 cycles per minute. 10,000 operations, 6 cycles per minute at rated current. (.85 min. PF) |
| Inductive Endurance | 10,000 operations, 10 cycles per minute. 10,000 operations, 6 cycles per minute. (.75-.85 PF) |
| Tungsten Filament Lamp Endurance | 10,000 operations, 6 cycles per minute at rated current and 120 volts |
| Temperature Rise | 30°C based 40°C |
| Dielectric Withstand | 1500 volts |

**Dimensions** (in inches)




D dimensions are approximate, not for construction purposes.
* Bin suffix (B).

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TOFT WOLFF FARROW PAGE 01/01

**2P-8 ENR Dead Front Delayed Action Circuit Breaking Receptacles**
**DNP Plugs General Purpose (For US NEC Applications); Arc-Guard™ 2; Factory Sealed**

Cl. I, Div. 1 & 2, Groups B*,C,D Explosionproof
Cl. II, Div. 1 & 2, Groups F,G Dust-Ignitionproof
Cl. III Raintight
NEMA 3,7*BCD,9FG,12 Wet Locations

**Application:**
• Explosion proof DNP plugs are used with mating receptacles to equipment such as compressors, tools, lighting systems, and portable cords. • In areas where hazardous by the presence of flammable vapors and gases or combustible dust. • Where portable electrical equipment is likely to be transferred from hazardous to non-hazardous areas. • In damp and corrosive areas. • When power requirements do not exceed 30 amps. • Where general purpose application is required.

**Features:**
• Arc-Guard™ contacts incorporate three separate functions in one device. • Receptacles have plate from being rotated until the DNP plug is fully inserted into the receptacle. • Receptacle contacts open before DNP plug is fully inserted, and the receptacle has moved inward by mating with the DNP plug. • Arc-Guard™ 2 is not related. Pin, sleeve, the sleeve. An rotation begins, the plug becomes locked in place. • Receptacle contacts remain closed (energized) in mating or breaking the circuit, only breaking whenever arc is noticed. • Factory sealed. • Factory sealed contacts eliminate potential acting contaminants between two mating contacts. • Receptacle and plug threads are specially coated to guarantee ease of assembly, which ensures proper seal. • Cast aluminum construction. • Cover plate material gasket meets lamination and DNP plug when plug is inserted. • Cover plate material gasket is lined with stainless steel.

**Standard Materials:**
• Receptacle contacts are made of silver alloy. • Receptacle contacts are connected to clamps, nut, and clamp screws. • Receptacle contacts are made of silver alloy. • Receptacle barrier contact reliability. • Receptacle contacts are made of silver alloy. • Receptacle contacts are connected to NEMA 5-20R configurations 2 and 4 receptacles, and NEMA 5-20R configurations 2 and 4 receptacles contacts are made of the same type. The ENR receptacle will not accept standard NEMA 5-20R configurations 2 and 4.

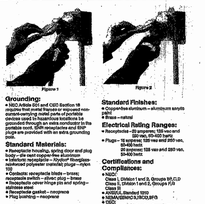
**Standard Finishes:**
• Aluminum castings • Primer coat alloy • Epoxy finish • Exterior steel: natural

**Certifications and Compliances:**
• NEC Article 501 and CEC Section 18 • Underwriters Laboratories Inc. Standards for Safety Hazardous (Classified) Locations UL 1203 • Canadian Standards Association Standard C22.2 No. 30

**Electrical Rating Ranges:**
• Receptacles—30 amperes, 125 volts and 250 volts. • Plugs—30 amperes, 125 volts and 250 volts. 30-480 volts. 30-600 volts. 30-125 volt and 250 volts. 30-600 volts.

**Certifications and Compliances:**
• NEMA • Underwriters Laboratories Inc. Class I, Division 1 and 2, Groups B,C,D Class II, Division 1 and 2, Groups F,G Class III • Canadian Standard 1010 • NEMA/ANSI C.5/C22.2/P3 • CSA

**Dimensions**

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TOFT WOLFF FARROW PAGE 03/05

**SL-8 FVH Series Fluorescent Industrial Lighting Fixtures Enclosed & Gasketed**

Cl. I, Div. 2, Groups A,B,C,D
Cl. II, Div. 1, Groups F,G
Cl. II, Div. 2, Groups F,G
Cl. III
Dust-Ignitionproof

Wet Locations

**Applications:**
• FVH fixtures are used in industrial and commercial applications where the presence of flammable gases or vapors, or combustible dusts are ignited by the National Electrical Code*. • Where corrosive vapors (acid fumes) damage machinery or processes, or harm people or plant life. • In areas where allergic reactions to commonly used materials exist.

**Features:**
• Gasketed lens bezel is standard (in addition to the gasketed housing) • Lens bezel is hinged with vertical and stage beam (lin) stud and wing nuts for easy lens bezel and lamps. Easy to clean. • A fulltime rubber gasket seals the lens bezel to the housing for a tight-fitting assembly and housing. • Corrosion resistant finish provides high reflectance and corrosion resistance for long life and maintenance ease. • Lens/lens assembly is hinged and latchably closed to provide ease of lamp replacement and maintenance. • Lamp holder is standard mole and has 12" AWG 600 lead and tube are standard.

**Standard Materials:**
• Fixture housing—Stainless steel • Lens/lens assembly—Stainless steel • Gasket—Neoprene • Hinges—Stainless steel • Latch—Stainless steel • Suspension Ranges—Stainless steel • Chain—Stainless steel • Lampholder—Mole • Lamp—Fluorescent • Clamps—Stainless steel

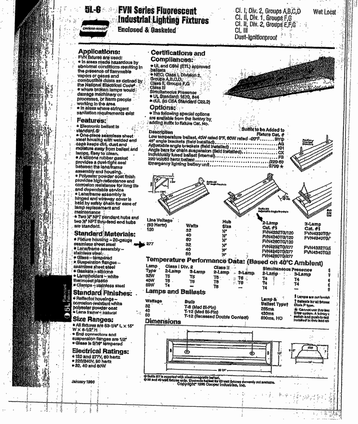
**Size Ranges:**
• All fixtures are 63-3/4" L x 10" W x 7" H. • End connections and suspension flanges are 1/2" Stainless steel Required

**Electrical Ratings:**
• 120, 277, 347 volts • 50/60Hz • 60, 90 and 60W

**Certifications and Compliances:**
• NEC Article 501 and CEC Section 18 • Underwriters Laboratories Inc. Standards for Safety Hazardous (Classified) Locations UL 1203 • Canadian Standards Association Standard C22.2 No. 30 • NEMA 3,7*BCD,9EFG,12

**Options:**
• The following special options are available for the FVH series. Add suffix listed to fixture Cat. No.

| Description | Suffix to be Added to Catalog No. |
|---|---|
| Low temperature ballast, 40W rated 0°F, 60W rated -20°F | -LT |
| Acid resistant hardware (field installable) | -AS |
| Acid resistant hardware (factory installed) | -AF |
| Angle lens for wide distribution (field installable) | -W |
| Angle lens for wide distribution (factory installed) | -FW |
| 300 watt/60 hertz ballast (factory) | -P9 |
| Emergency lighting backup unit | -EM |

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 66 R.F.I. Date 12/12/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONSTRUCTION
REF. DWG: E1.1, E1.4
LOCATION: DISPLAY CASES 1st & 2nd FLOORS

POTENTIAL COST IMPACT: ✓ COST ___ OTHER ✓ SCHEDULE ✓ LABOR ___ NO IMPACT ✓ MATERIAL

INFORMATION REQUESTED: ROUTINE "2ND" ADDED A TOGGLE SWITCH AT EACH DISPLAY CASE. WE ALSO CHANGED THE CIRCUIT WHICH WAS UNSWITCHED TO CIRCUITS THAT ARE CONTROLLED BY THE EXT. CONTROL PANEL. IS THIS THE INTENT.

REPLY REQUIRED BY: 12/20/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.
RESPONSE:
DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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**S. J. AMOROSO**
Request For
Information/Clarification

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
IBP p/n: 20247.00
Subj.: Lighting for Display Cases
RFI No: **440**
Reference (dwg, spec.): E1.1, 2, 3, 4
Subcontractor RFI: EWS 66
Reply Requested By: 12/19/06

INFORMATION REQUESTED: Date: 12/12/06

Please note the attached Edward Scott RFI No. 66 regarding the lighting controls for the display cases per Bulletin No. 24. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:
The contractor is correct on the intent of how power is being provided to the display cases. The lights in the display cases will be energized as long as the corridor light (on the same circuit) has been energized during the normal operating hours or when the corridor lights need to be energized during 'after-hour' use of the building. This was done so the lighting will comply with Title 24.

LLai / Toft Wolff Farrow
Jim Weaver / IBP Architecture
12/15/06

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 63 R.F.I. Date 12/5/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: E1.1, E1.2
LOCATION: STAIR #1 & #2 & ADMIN

POTENTIAL COST IMPACT: ___ COST ___ OTHER ✓ SCHEDULE ___ LABOR ___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: THE EXIT SIGNS OVER THE EXIT DOORS AT STAIRS #1 & 2 & THE 1ST FLOOR CANNOT BE INSTALLED AS SHOWN ON CONTRACT DWGS. DUE TO WINDOWS & NO OBJECTIONS WE WILL MOUNT THEM ON END OF THE WALLS SHOWN ON ATTACHED SKETCHES.

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.
RESPONSE:
DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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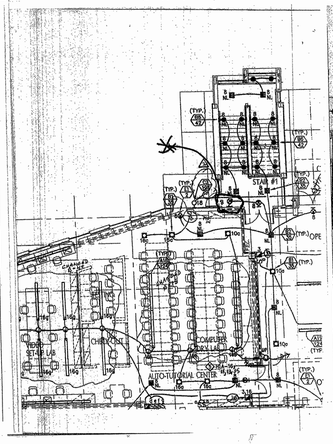
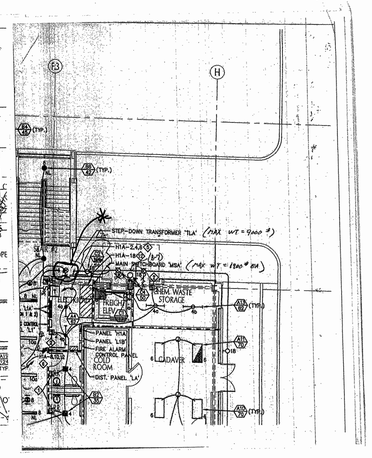
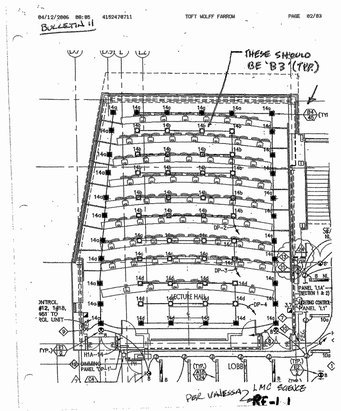
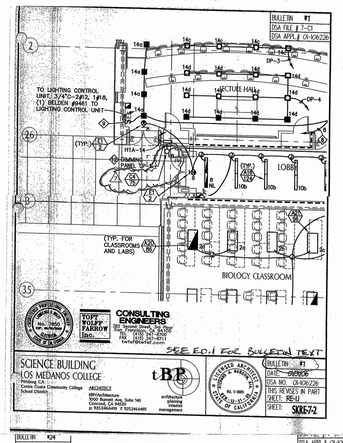
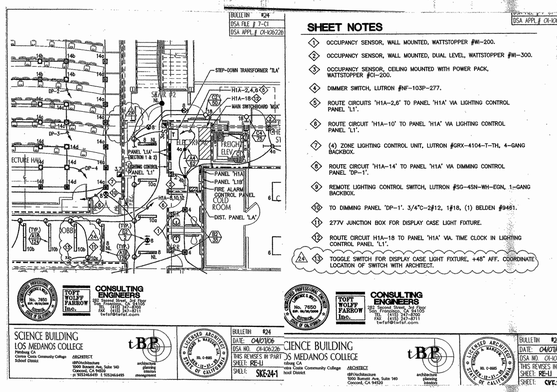
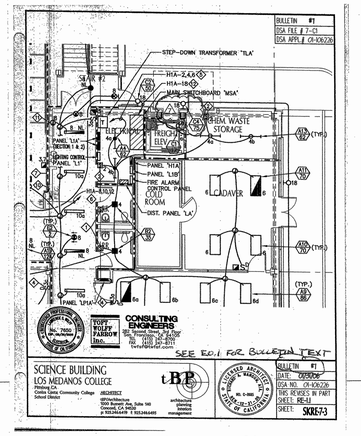


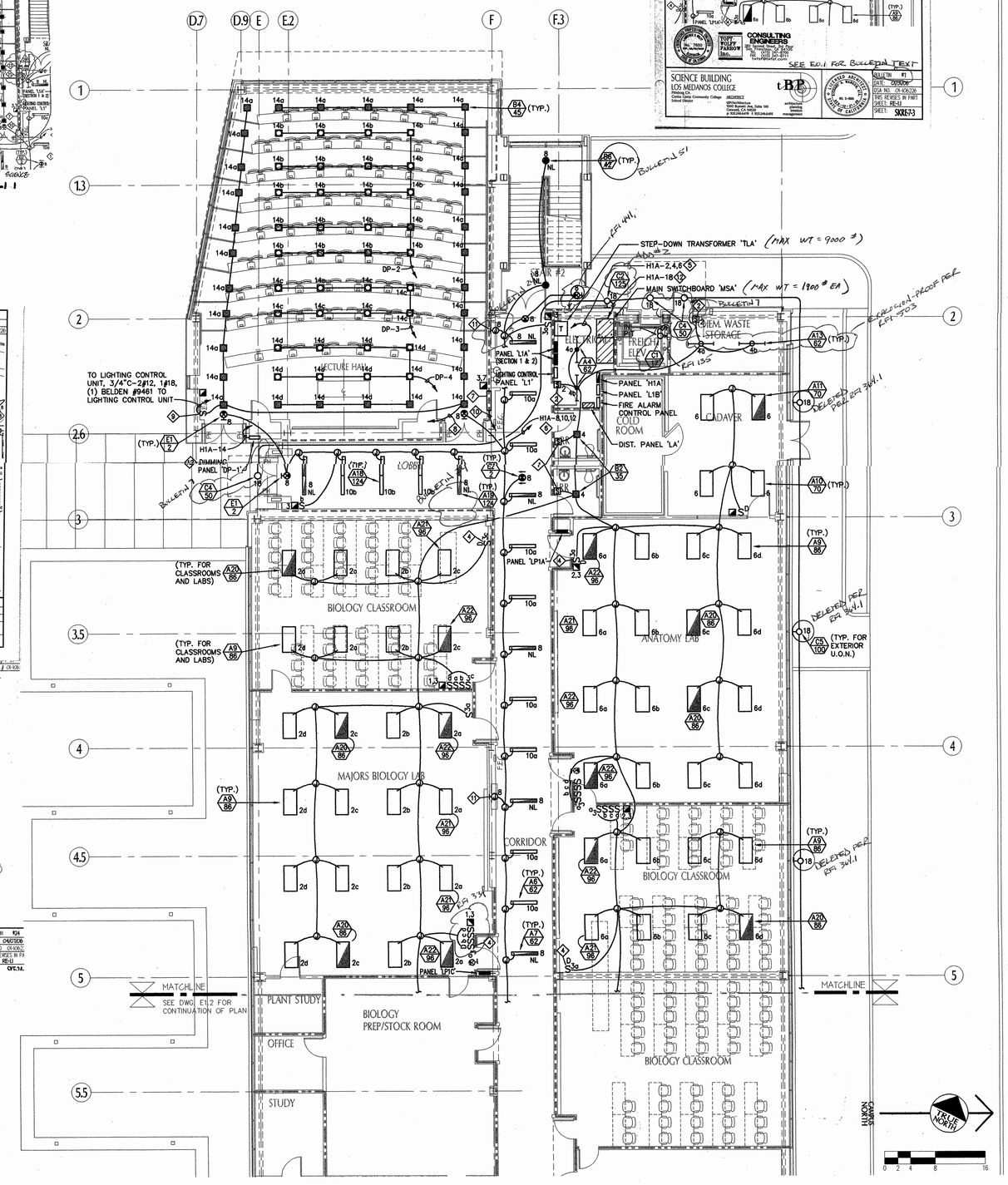





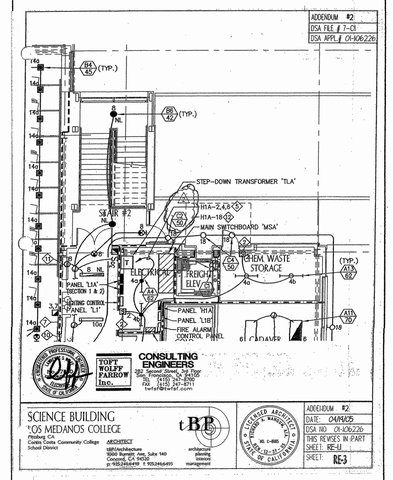




1ST FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"

1

## SHEET NOTES

1. OCCUPANCY SENSOR, WALL MOUNTED, WATTSTOPPER #WI-200.
2. OCCUPANCY SENSOR, WALL MOUNTED, DUAL LEVEL, WATTSTOPPER #WI-300.
3. OCCUPANCY SENSOR, CEILING MOUNTED WITH POWER PACK, WATTSTOPPER #CI-200.
4. DIMMER SWITCH, LUTRON #NF-103P-277.
5. ROUTE CIRCUITS 'H1A-2,6' TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
6. ROUTE CIRCUIT 'H1A-10' TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
7. (4) ZONE LIGHTING CONTROL UNIT, LUTRON #GRX-4104-T-TH, 4-GANG BACKBOX.
8. ROUTE CIRCUIT 'H1A-14' TO PANEL 'H1A' VIA DIMMING CONTROL PANEL 'DP-1'.
9. REMOTE LIGHTING CONTROL SWITCH, LUTRON #SG-4SN-WH-EGN, 1-GANG BACKBOX.
10. TO DIMMING PANEL 'DP-1'. 3/4"C-2#12, 1#18, (1) BELDEN #9461.
11. 277V JUNCTION BOX FOR DISPLAY CASE LIGHT FIXTURE.
12. ROUTE CIRCUIT H1A-18 TO PANEL 'H1A' VIA. TIME CLOCK IN LIGHTING CONTROL PANEL 'L1'.




S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Toni Beckett
Fax: 925-246-6495
Bulletin: Freight Elevator Light Circuit
Reference (dwg, spec): E1.1
Reply Requested By: 2/15/06

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00
RFI No: 135
Subcontractor RFI# Scott 1

INFORMATION REQUESTED: Date: 2/8/06

Please note the attached Scott Electric RFI No. 1 regarding the Freight Elevator Pit Light. They are requesting the circuit number for that light. Please advise.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

In response to RFI#135:

The freight elevator pit light shall be connected to 'H1A-4'.

LLai

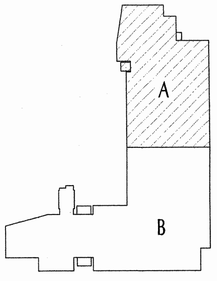
Attachments: By:

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 2/8/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | |
| tBP / ARCHITECTURE | S.J. AMOROSO | |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

## KEY PLAN




tBP
architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

CONSULTING ENGINEERS
2960 Spring Street, Suite 100
Oakland, CA 94608
(415) 247-8700
FAX (415) 247-8711
twf@twfsf.com
TOFT WOLFF FARROW Inc.

consultant

name
address
city, state, zip
ph: fax:

agency

owner

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

tBP project number : 20247.00

file name: 1s-FLR-A

drawn by: LLAI checked by: LSM

date: NOVEMBER 15, 2004

| Key | date | description |
|---|---|---|

drawing title:
1st FLOOR PLAN
PART "A" - LIGHTING

LMC SCIENCE 313-023-112.01-0-00.00

drawing no.:
E-1.1

TWF #030508.00

## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: HVAC conflict 1st floor- 46x24 TA duct at F.4 and 7.6 line
Reference (dwg, spec): M1.3, S2.2.1
RFI No: **75.1**
Subcontractor RFI: Monterey 02
Reply Requested By: 1/27/05

INFORMATION REQUESTED: Date: 1/23/06

Original question in RFI No. 75:
*In the process of detailing HVAC for underside of the second floor, we have identified the following conflict between HVAC duct and structural steel. On sheet M1.3, the 46x24 TA duct at F.4 and 7.6 line will be 49x27 when lined. Therefore, with flanges, it will be in conflict with the W36x135 beam at 7.8 line and will also be in conflict with the cable tray. There is also a light in the room and a light in the corridor that are in conflict. Please advise.*

We have forwarded the response to RFI No. 75 to our mechanical subcontractor and detailer and they are satisfied with the "intent" of this RFI response.

However, the electrical portion of the RFI response refers to room 131, but the described conflict is in room 125. Please confirm that response was intended to apply to room 125.

In addition, the response to RFI No. 75 makes reference to needed coordination with the telecom consultant. Please advise us of the results of this coordination effort.

SUGGESTED SOLUTION: None.
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 1.26.06
SEE ATTACHED RESPONSE + SKETCH COMMENTS FROM ELECTRICAL ENGINEER, FOR REVISIONS AT ROOM 125.

Attachments: TWF RESPONSE + (2) SKETCHES By: TWF.

RFI # 000
Page 1

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Page 1 of 1

**Celia Chiang**

From: Toft Wolff Farrow Inc. [twfsf@twfsf.com]
Sent: Thursday, January 26, 2006 10:09 AM
To: Celia Chiang
Cc: Dave Weston; John Lambert
Subject: LMC Science Building RFI#75.1
Attachments: RFI 75.1 TWF Response.pdf

Celia,

In response to RFI#75.1:

See attached pages for TWF's recommendations to accommodate ductwork installation. Cable tray deletion was coordinated with Telcom during a meeting with tBP.

LLai

Toft Wolff Farrow Inc.
282 Second Street, 3rd Floor
San Francisco, CA 94105
415-247-8700 Phone
415-247-8711 Fax
twfsf@twfsf.com
www.twfengineers.com

1/26/2006

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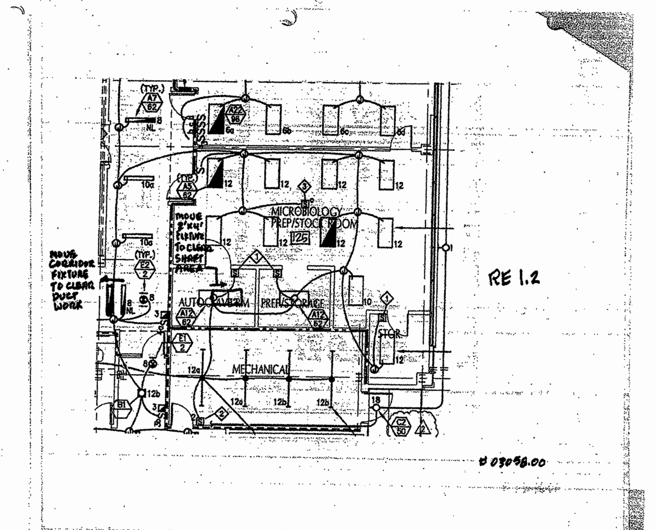


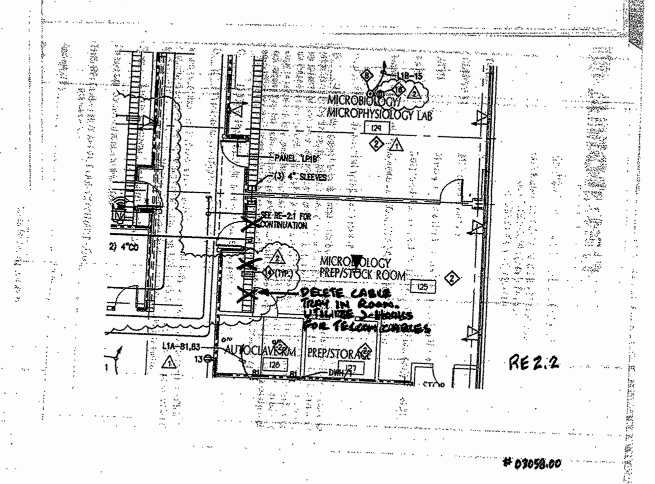


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## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: Light Fixture at Southeast Corner of Rm. 125
Reference (dwg, spec.): E-1.2
RFI No: **427**
Subcontractor RFI: EWS 60
Reply Requested By: 11/27/06

INFORMATION REQUESTED: Date: 11/20/06

Please note the attached EWS RFI No. 60 regarding the light fixture at the south~~west~~ east corner of room 125 Microbiology Prep/Stock Room. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:
See Attached Response

### Summary of Comments on To:

Page: 2

Author: RWeaver
Subject: Text Box
Date: 11/20/2006 3:57:28 PM
The light fixture in the southeast corner of the room shall be on the same circuit as the other fixtures in the room (circuit 'H1A-12')

Jim Weaver / tBP Architecture
L. Lai / T.W.F.

11/20/06

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## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 60 R.F.I. Date 11
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONSTRUCTION
REF: DWG: E-1.2
LOCATION: RM. 125

POTENTIAL COST IMPACT: COST / OTHER / NO IMPACT; ✓ SCHEDULE / LABOR / MATERIAL

INFORMATION REQUESTED: THE LT. FIXTURE AT THE SOUTH EAST CORNER OF RM 125 (MICROBIOLOGY PREP/STOCK ROOM) IS SHOWN TO BE CONNECTED TO CKT. 10. IS THIS THE INTENT?

REPLY REQUIRED BY: 11/27/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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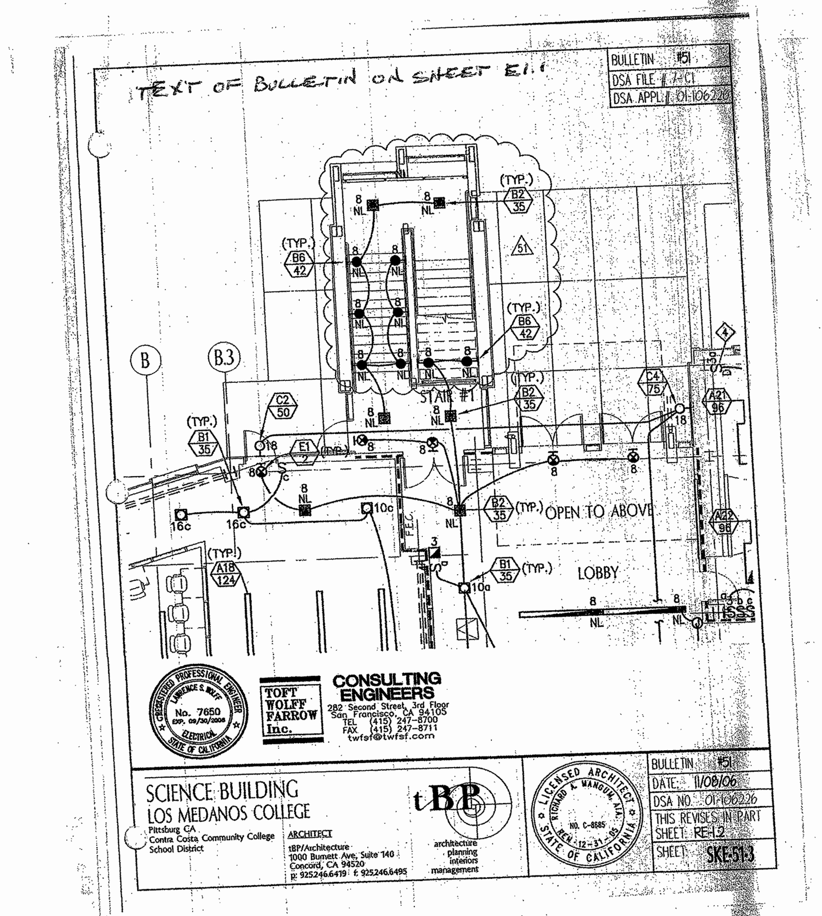


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## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: Eyewash in Room 129 Interfering with Outlets
Reference (dwg, spec.): E-1.2, LE1-1B
RFI No: **398**
Subcontractor RFI: EWS 52
Reply Requested By: 10/27/06

INFORMATION REQUESTED: Date: 10/20/06

Please note the attached EWS RFI No. 52 regarding the outlets in Room 129 close to the Eyewash Station which is interfering with them being installed in the correct location. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

Room 130 (light switches):
TWF has no objection to stacking the toggle switches in two groups as long as the top group of switches is no higher than 48" AFF. Also, TWF has no objection to relocating the zone control light switch to the contractor's proposed location.

Larry Lai/TWF - 10/23/06

The power and data outlets should be kept together - move them BOTH 14" East. (It is OK to move them both East next to each other, within 5" of each other will work)

NOT - in 2 different directions as notes on the drawing indicate (this would have them 28" apart.)
Please confirm that this can be done.

Kent Knight/Dovetail - 10/23/06

RFI # 000
Page 1

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## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

398

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 52 R.F.I. Date 10/20/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E-1.2 & LE1-1b
LOCATION: BIO CLASS RM 130

POTENTIAL COST IMPACT: COST / OTHER / NO IMPACT; ✓ SCHEDULE / LABOR / MATERIAL

INFORMATION REQUESTED: DUE TO THE EYE WASH FRAMING IN RM 129 THE OUTLETS SHOWN ON THE ATTACHED SKETCH WILL NEED TO BE SHIFTED AS SHOWN. THE DATA OUTLET WILL ALSO BE LOWERED TO 14" AFF.
THE EYE WASH FRAMING IS ALSO IMPACTING THE LTG & LOW VOLTAGE SWITCHES SHOWN ON E-1.2 AND ATTACHED SKETCH. WOULD IT BE ACCEPTABLE TO STACK THE 4 LTG SW. IN GROUPS OF TWO IN THE LOCATION SHOWN, AND RELOCATE THE LOW VOLTAGE DOOR NEXT TO THE DOOR AS SHOWN ON THE ATTACHED SKETCH?

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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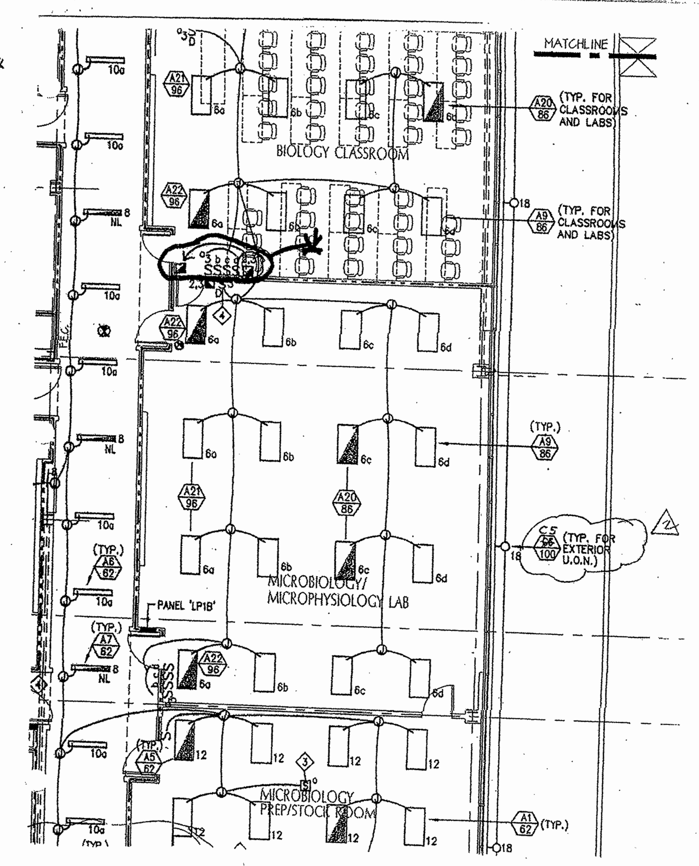


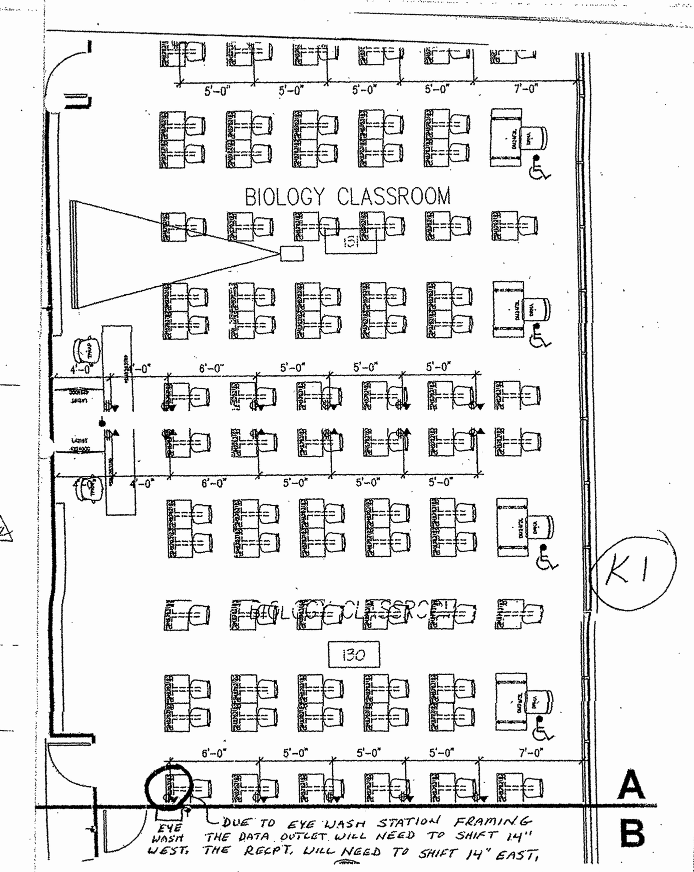


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## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: Light Fixture B2 at Stair No. 1 Lobby
Reference (dwg, spec.): E1.2
RFI No: **442**
Subcontractor RFI: EWS 64
Reply Requested By: 12/20/06

INFORMATION REQUESTED: Date: 12/13/06

Please note the attached Edward Scott RFI No. 64 regarding the Type B2 Light Fixtures shown in Stair No. 1 Lobby which cannot be installed. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

1. Type B2 fixtures this location at first floor lobby to be surface mount Peachtree lighting fixture type PCFUS-12226 in lieu of specified recess type. See attached cut sheets.
2. Please review fixture/sprinkler conflict location with architect in field at 1/9/07 site meeting.

Jim Weaver / tBP Architecture
Larry Lai / T.W.F.

1/5/07

RFI # 000
Page 1

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## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 64 R.F.I. Date 12/8/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E-1.2
LOCATION: STAIR #1

POTENTIAL COST IMPACT: ✓ COST / OTHER / NO IMPACT; ✓ SCHEDULE / ✓ LABOR / ✓ MATERIAL

INFORMATION REQUESTED: WE ARE UNABLE TO INSTALL THE 2 TYPE "B2" LT. FIX. AS SHOWN AT THE STAIR #1 1ST FL. LOBBY. THE 4" CEILING FRAMING DOES NOT ALLOW AMPLE CLEARANCE FOR THE 8.5" DEEP FIXTURES.
BULLETIN 51 HAS CHANGED THE 3 SURFACE MOUNT LT. FIX. TO TYPE "B-2" RECESS FIXTURES AT STAIR #2 2nd FL. WHICH HAS CAUSED A CONFLICT WITH A SPRINKLER PIPE. THE PIPE WILL NEED TO BE REROUTED.

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: Lighting Fixtures B6
Reference (dwg, spec.): E-1.2, E-1.4, A8-2&3
RFI No: **372**
Subcontractor RFI: EWS 40
Reply Requested By: 10/13/06

INFORMATION REQUESTED: Date: 10/6/06

Please note the attached EWS RFI No. 40 regarding location for the 2 "B6" Light Fixtures at the window alcove on the north wall of stair No. 1 on the first floor. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

TWF recommends that the 'A25' fixtures remain as 4' fixtures.

Larry Lai/TWF - 10/9/06

The (2) "B6" noted above are deleted. Contractor to provide credit to the fixtures and the labor to the installation to these fixtures.

Vanessa Ling/tBP - 10/16/06

Amended 10/26/06
Centerline of Fixtures A25 are to be located at 18'-0" and 34'-0" to first floor finish floor, top and bottom of fixtures A25 are align with the aluminum drywall reveals.

Vanessa Ling/tBP - 10/26/06

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## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 40 R.F.I. Date 5/6/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E-1.2, E-1.4, A8-2 & 3
LOCATION: STAIR #1

POTENTIAL COST IMPACT: COST / OTHER / NO IMPACT; ✓ SCHEDULE / LABOR / MATERIAL

INFORMATION REQUESTED: THE LOCATION FOR THE 2 "B6" LTG. FIXTURES AT THE WINDOW ALCOVE ON THE NORTH WALL OF STAIR #1 ON THE 1st FL. IS NOT SHOWN ON DWGS. A8-2 & 3. PLEASE CLARIFY.
THE TYPE "A25" LTG FIXTURES ARE LISTED AS 4"x4' FLOUR. FIXTURES IN THE FIXTURE SCHED. DWGS. A8-2 & 3 DEPICT THEM AS BEING 4x8' FIXTURES. DWG. E-1.4 DOES NOT DEPICT THEM AS BEING MULTIPLE FIXTURES. BE ADVISED THAT THESE FIXTURES HAVE BEEN ORDERED AS SINGLE 4' FIXTURES. SHOULD THE FIXTURE SCHED. SHOWN THESE AS BEING 8' LONG. PLEASE ADVISE

REPLY REQUIRED BY: 10/12/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

---

## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
tBP p/n: 20247.00
Subj.: Lighting Switches in North Wall of Rm. 129
Reference (dwg, spec.): E-1.2, LE1-1a
RFI No: **368**
Subcontractor RFI: EWS 38
Reply Requested By: 10/11/06

INFORMATION REQUESTED: Date: 10/4/06

Please note the attached EW Scott RFI 38 regarding the High and Low Voltage Lighting Switches on the north wall of Room 129. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

For relocation of 3-way dimmer switch, lighting zone control switch and audible/visual device please see attached pages.
Regarding relocation of telephone outlet, see Jim Cooley's response as follows.

Larry Lai/TWF - 10/4/06

Regarding what this RFI calls a data outlet at the North entrance (really a telephone jack), I recommend moving to a location adjacent to the South entrance, if feasible, as it does not seem to want to fit in any other location near the North entrance.

Jim Cooley/Michael Wall Engineering, Inc. - 10/6/06

cc: EWS

RFI # 000
Page 1

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## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 38 R.F.I. Date 10/2/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E-1.2, LE1-1a
LOCATION: MICRO LABS RM 129

POTENTIAL COST IMPACT: COST / OTHER / NO IMPACT; ✓ SCHEDULE / LABOR / MATERIAL

INFORMATION REQUESTED: THE HIGH AND LOW VOLTAGE LTG. SWITCHES ON THE NORTH WALL OF RM 129 ARE BACK TO BACK WITH THE SWITCHES IN RM 130. THEY ARE ALSO LOCATED NEXT TO AN EMER. SHOWER STATION AND CANNOT BE SHIFTED EAST, NOR ARE THEY WATER PROOF.
DUE TO THE DOOR FRAMING THERE IS NO ROOM FOR THE DATA OUTLET OR HORN STROBE AT THE NORTH ENTRANCE TO THE ROOM. WE ARE REQUESTING ALTERNATE MOUNTING LOCATIONS. PLEASE ADVISE

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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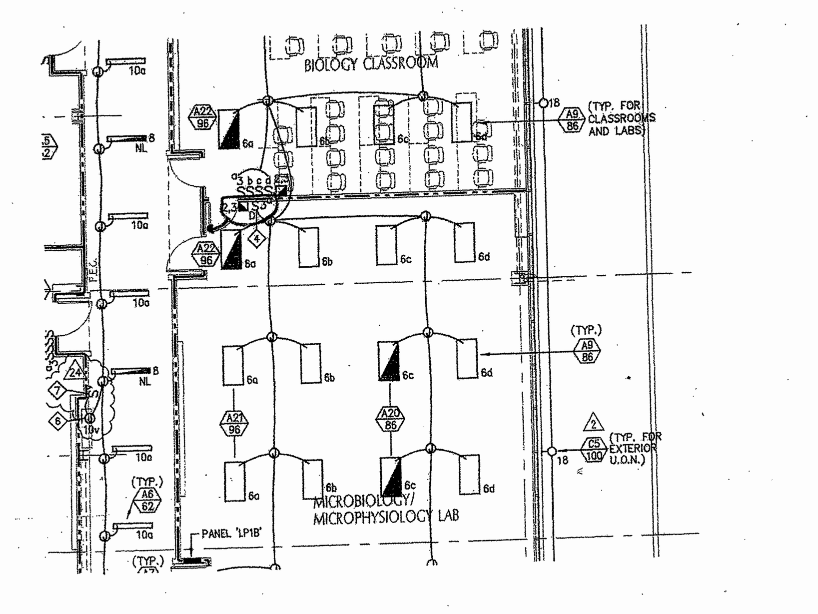
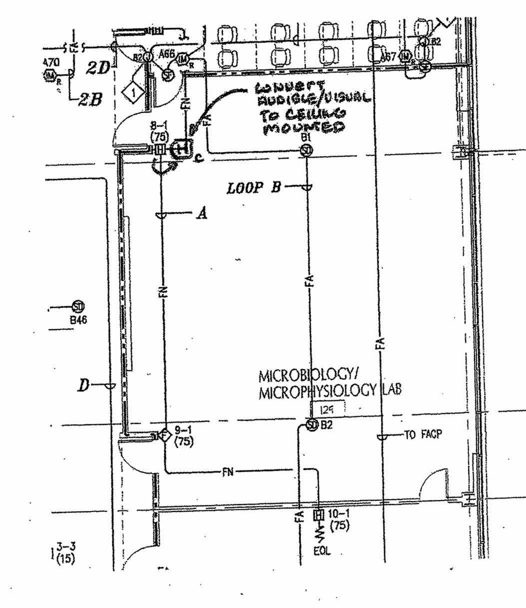
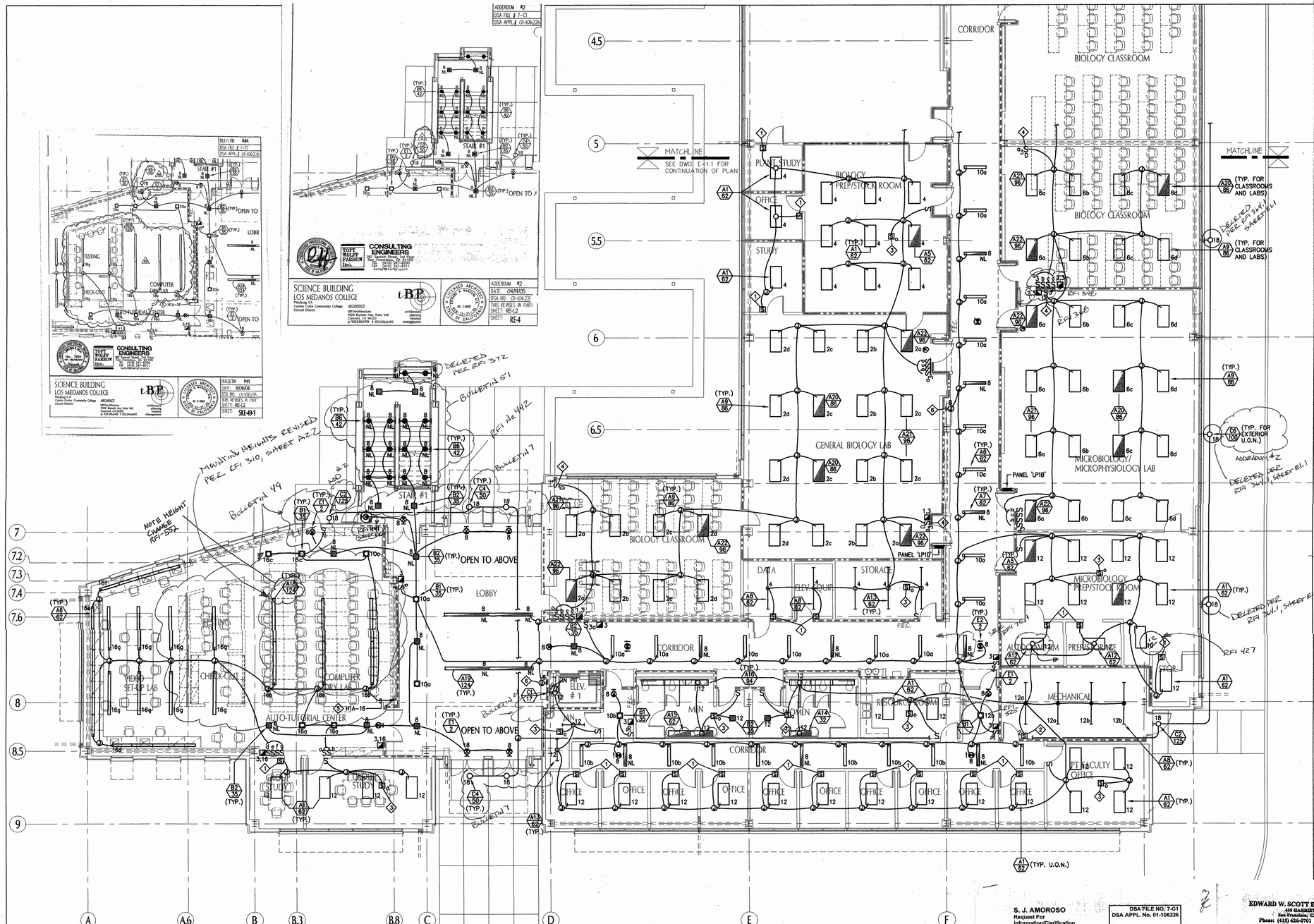
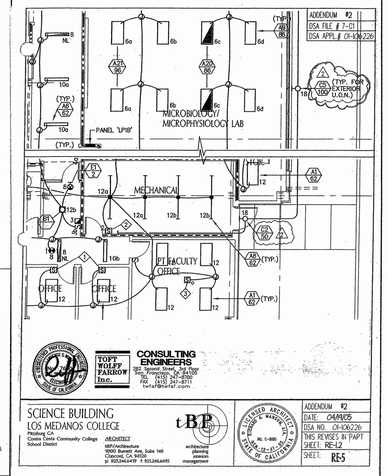


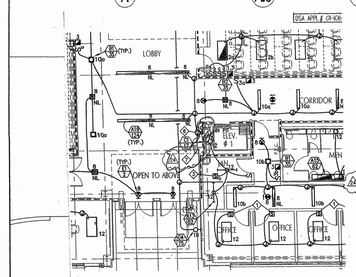






## SHEET NOTES

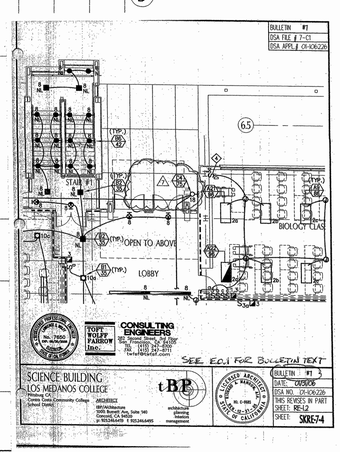
1. OCCUPANCY SENSOR, WALL MOUNTED, WATTSTOPPER #WI-200.
2. OCCUPANCY SENSOR, WALL MOUNTED, DUAL LEVEL, WATTSTOPPER #WI-300.
3. OCCUPANCY SENSOR, CEILING MOUNTED WITH POWER PACK, WATTSTOPPER #CI-200.
4. DIMMER SWITCH, LUTRON #NF-103P-277.
5. ROUTE CIRCUIT H1A-16 TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
6. 277V JUNCTION BOX FOR DISPLAY CASE LIGHT FIXTURE.

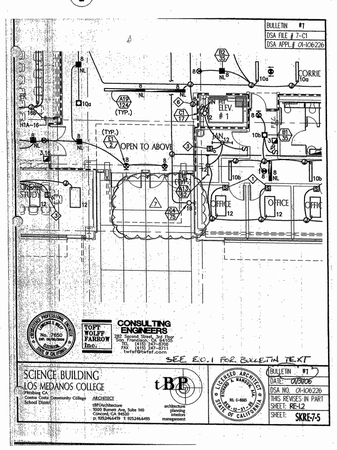



## SHEET NOTES

1. OCCUPANCY SENSOR, WALL MOUNTED, WATTSTOPPER #WI-200.
2. OCCUPANCY SENSOR, WALL MOUNTED, DUAL LEVEL, WATTSTOPPER #WI-300.
3. OCCUPANCY SENSOR, CEILING MOUNTED WITH POWER PACK, WATTSTOPPER #CI-200.
4. DIMMER SWITCH, LUTRON #NF-103P-277.
5. ROUTE CIRCUIT H1A-16 TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
6. 277V JUNCTION BOX FOR DISPLAY CASE LIGHT FIXTURE.
7. TOGGLE SWITCH FOR DISPLAY CASE LIGHT FIXTURE, +48" AFF. COORDINATE LOCATION OF SWITCH WITH ARCHITECT.




**S. J. AMOROSO**
**Request For Information/Clarification**

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave., Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Subj.: Circuit for 'B1' Light Fixture in Corridor 107
Reference (dwg, spec.): E1.2
Reply Requested By: 6/14/07

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP pin: 20247.00
RFI No: 525
Subcontractor RFI: EWS 88

INFORMATION REQUESTED: Date: 5/7/07

Please note the attached EWS RFI No. 88 regarding the type 'B1' Light fixture located in Corridor 107. EWS believes this fixture should be on Circuit 10 not Circuit 12. Please advise.

SUGGESTED SOLUTION:
Cost/Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:

Light fixture 'B1' should be on circuit 'H1A-10', not 'H1A-12'.

Jim Weaver / SSP Architecture
L. Lai / TWF

5/9/07

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
425 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-2701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I. # 88 R.F.I. Date 5/4/07
JOB: 4254 ACTUAL REPLY DATE:

TO: MARC DELGADO
GR: ALBERTO SO. CONST.
REF: DWG: E-1.2
LOCATION: CORRIDOR 107

POTENTIAL COST IMPACT: COST ✓ SCHEDULE; OTHER ___ LABOR; NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: WE BELIEVE THAT THE TYPE 'B1' LIGHT FIXTURE LOCATED IN CORRIDOR 107 BETWEEN THE RESOURCE RM. AND THE MECH. RM. SHOULD BE CKT. 10 NOT CKT 12 AS SHOWN. THE SWAY SWITCHES CAN NOT OPERATE AS SHOWN.

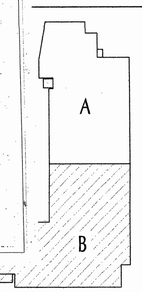
REPLY REQUESTED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUESTED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 196456

RFDGGN

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1ST FLOOR PLAN PART "B" | 1
SCALE: 1/8"=1'-0"

TWF #03058.00

tBP
architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

CONSULTING ENGINEERS
2292 Second Street, 3rd Floor
San Jose, CA 95112-3005
Tel: (415) 626-8700
Fax: (415) 626-8711
twf@twfeng.com

TOFT WOLFF FARROW Inc.

consultant

DENTIFICATION STAMP
OFFICE OF THE STATE ARCHITECT
DIVISION OF REGULATION SERVICES
APP. - 01-106226
DATE

name
address
city, state, zip
pht fc

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name: 1s-FLR-A

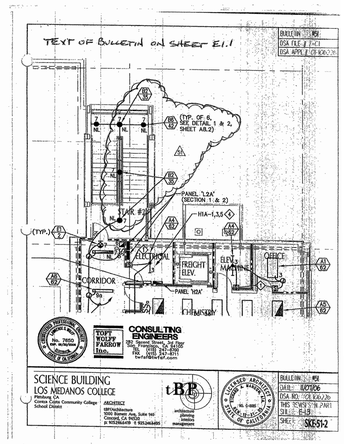
drawn by: LLAI checked by: LSH

date: NOVEMBER 15, 2004

| Rev. | date: | description: |
|---|---|---|

drawing title:
1st FLOOR PLAN
PART "B" - LIGHTING

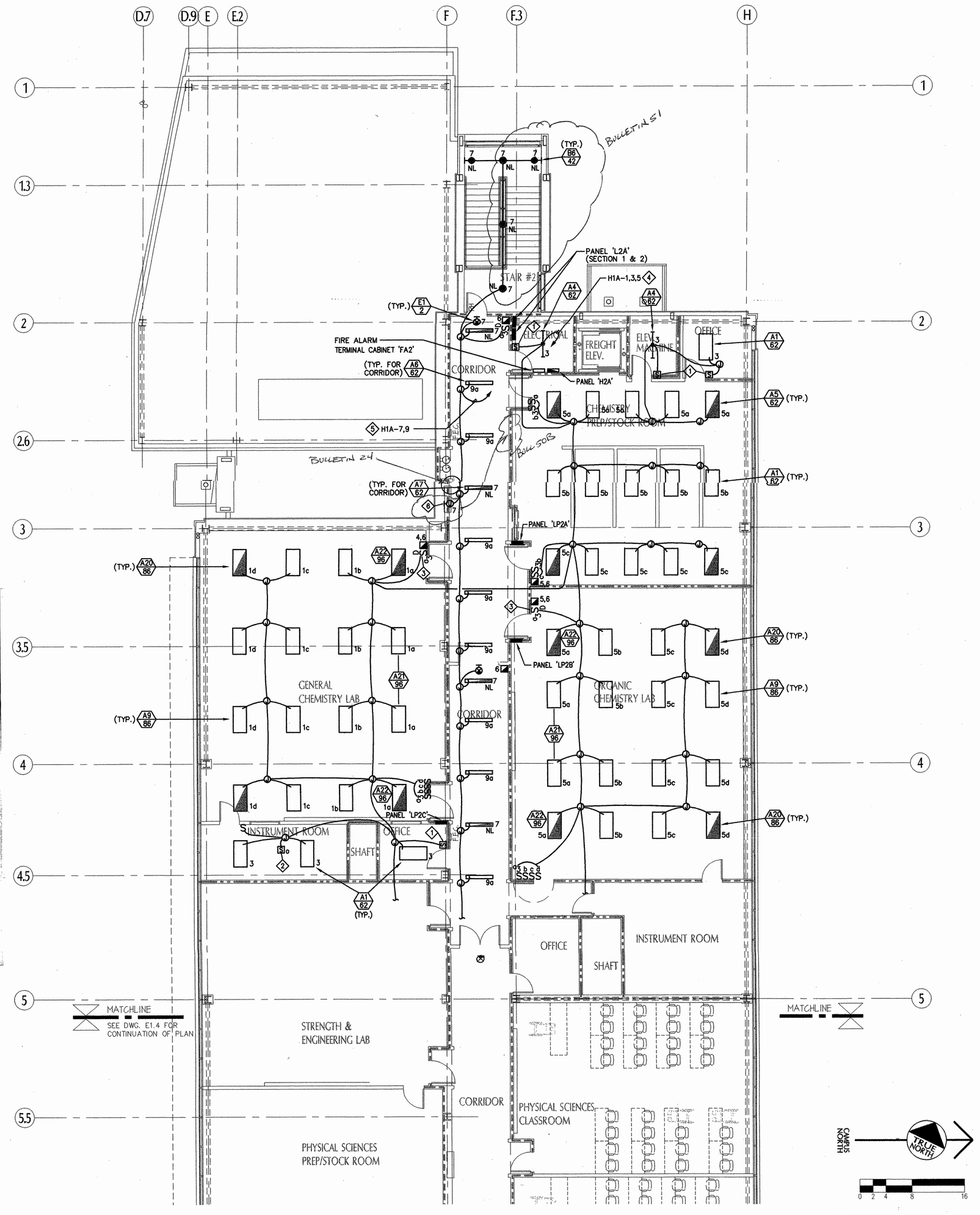
LMC SCIENCE 313-023-112.01-0-00.00
drawing no.:
E-1.2



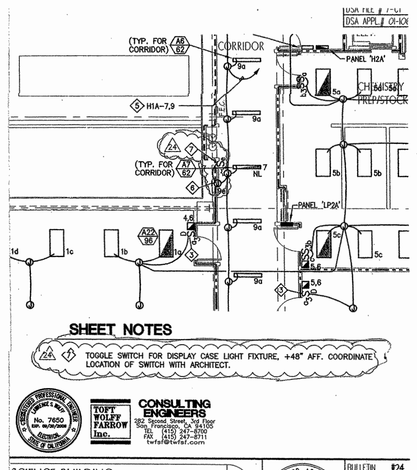

Los Medanos College
4CD Proj.# : L-565-B-23-SC
**Science Building**

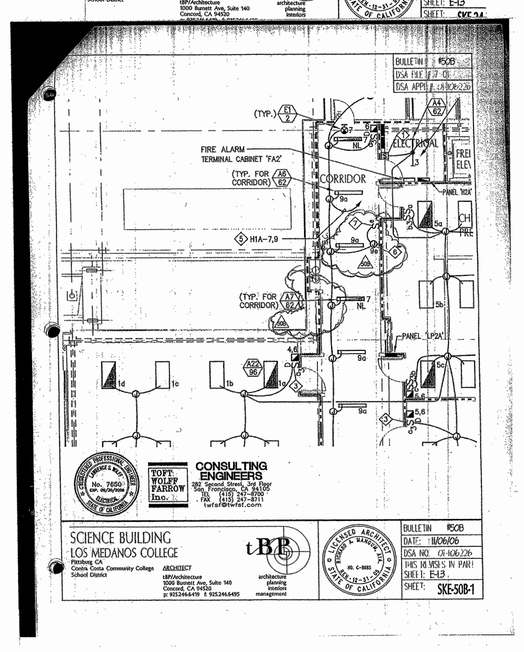
## SHEET NOTES

1. OCCUPANCY SENSOR, WALL MOUNTED, WATTSTOPPER #WI-200.
2. OCCUPANCY SENSOR, CEILING MOUNTED WITH POWER PACK, WATTSTOPPER #WI-300.
3. DIMMER SWITCH, LUTRON #NF-103P-277.
4. ROUTE CIRCUITS 'H1A-1,5' TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
5. ROUTE CIRCUIT 'H1A-9' TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
6. 277V JUNCTION BOX FOR DISPLAY CASE LIGHT FIXTURE.

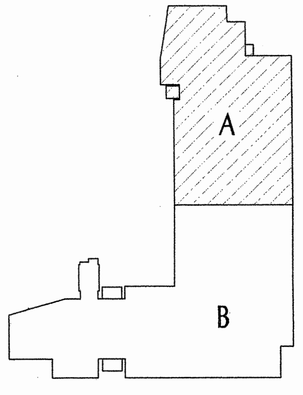



2ND FLOOR PLAN PART "A" SCALE: 1/8"=1'-0" | 1




## KEY PLAN




TWF #03058.00


tBP
architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

CONSULTING ENGINEERS
285 Hamilton Avenue, 5th Floor
San Francisco, CA 94105
p: (415) 247-8700
fax: (415) 247-8711
twfsf@twfsf.com
TOFT WOLFF FARROW Inc.

consultant


ENVIRONMENTAL STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP. - 19-50026
DATE 11-1-04

name
address
city, state, zip
ph: fx:

agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

file name: 1s-FLR-A

drawn by: LLAI checked by: LSN

date: NOVEMBER 15, 2004

| Rev. | date | description |
|---|---|---|
| | | |

drawing title:

## 2nd FLOOR PLAN PART "A" - LIGHTING

LMC SCIENCE 313-023-112.01-0-00.00

drawing no:

E-1.3

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

**Project:** LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495

tBP p/n: 20247.00

**Subj.:** Type B3 Lighting Fixture on Stain No. 1 Overhang
**Reference (dwg, spec.):** E-1.4

**RFI No:** 424
Subcontractor RFI: EWS 58

**Reply Requested By:** 11/15/06

**INFORMATION REQUESTED:** **Date:** 11/8/06

Please note the attached EWS RFI No. 58 regarding the Type B3 Lighting Fixture shown on the Overhang of Stair No. 1 at the roof. Is 8-1/2" Deep and will not fit. A weather proof surface fix may be an option. Please advise.

**SUGGESTED SOLUTION:**
**Cost Impact:** ☐ **Schedule Impact:** ☐ days **By:** Mark Delgado

**RESPONSE:** **DATE:**

1

Please see bulletin 51 for revised fixture this location.

Jim Weaver
tBP Architecture

11/10/06

**RFI # 000**
**Page 1**

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 58 R.F.I. Date 11/6/06
JOB: 2451 ACTUAL REPLY DATE ____

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: E1.4
LOCATION: STAIR #1 ROOF

POTENTIAL COST IMPACT
___ COST ✓ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: THE TYPE "B3" LTG. FIX. SHOWN ON THE OVERHANG OF STAIR #1, AT THE ROOF, IS 8½" DEEP AND WILL NOT FIT. A WEATHER PROOF SURFACE FIX MAY BE AN OPTION. PLEASE ADVISE.

REPLY REQUIRED BY: ASAP SIGNED: [signature]
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: ____ SIGNED: ____

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

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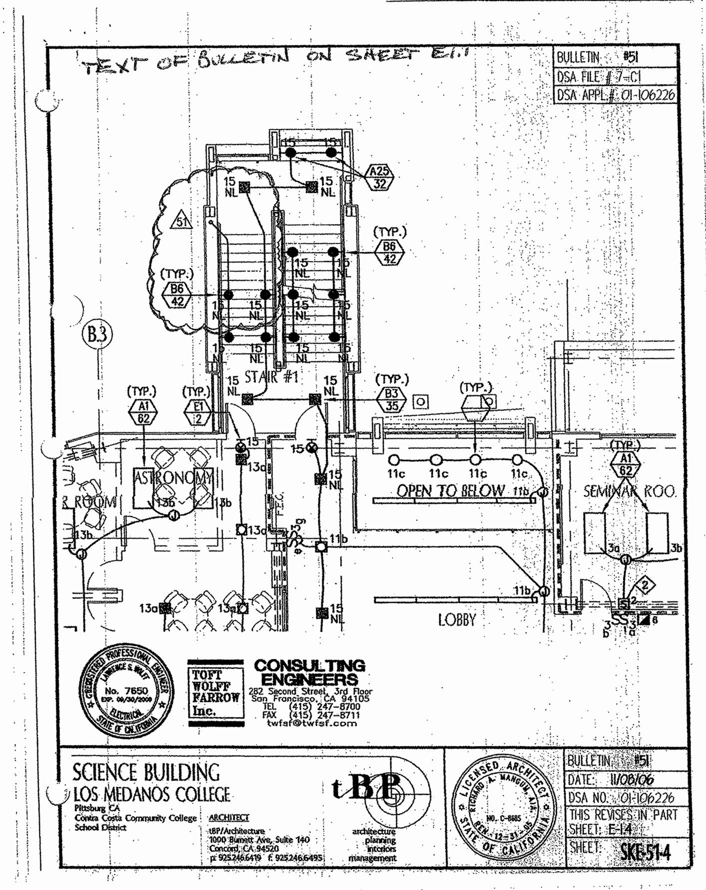


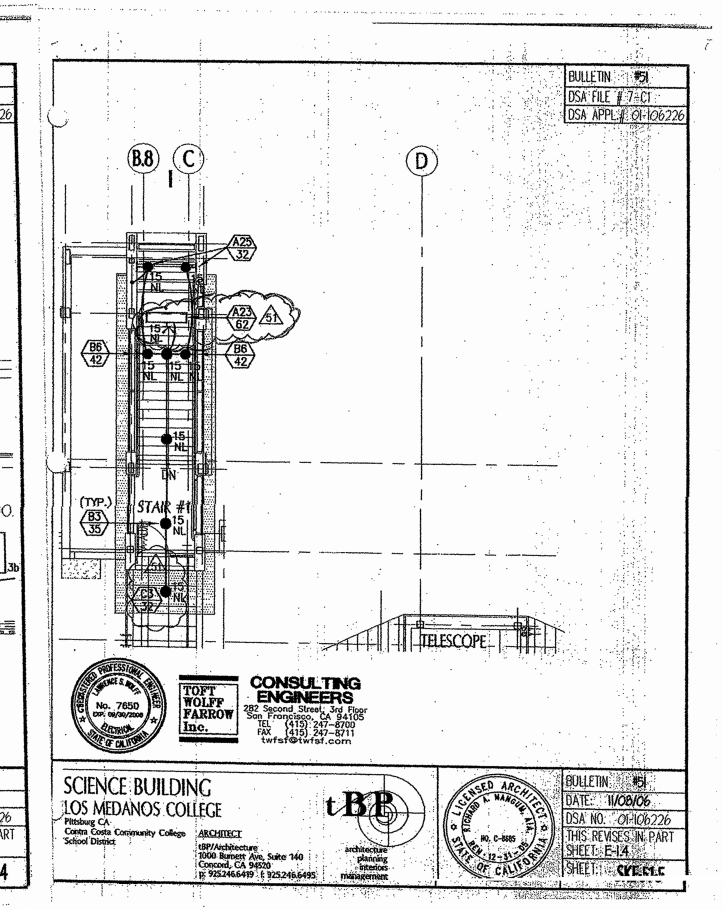


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**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

**Project:** LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495

tBP p/n: 20247.00

**Subj.:** Light Switches In Room 201
**Reference (dwg, spec.):** E-1.4

**RFI No:** 504
Subcontractor RFI:

**Reply Requested By:** 3/21/07

**INFORMATION REQUESTED:** **Date:** 3/14/07

Please note the attached EWS RFI No. 79 confirming that the two light switches in room 201 mounted on the west wall are to be re-designated. Please advise.

**SUGGESTED SOLUTION:**
**Cost Impact:** ☐ **Schedule Impact:** ☐ days **By:** Justin Warren

**RESPONSE:** **DATE:**

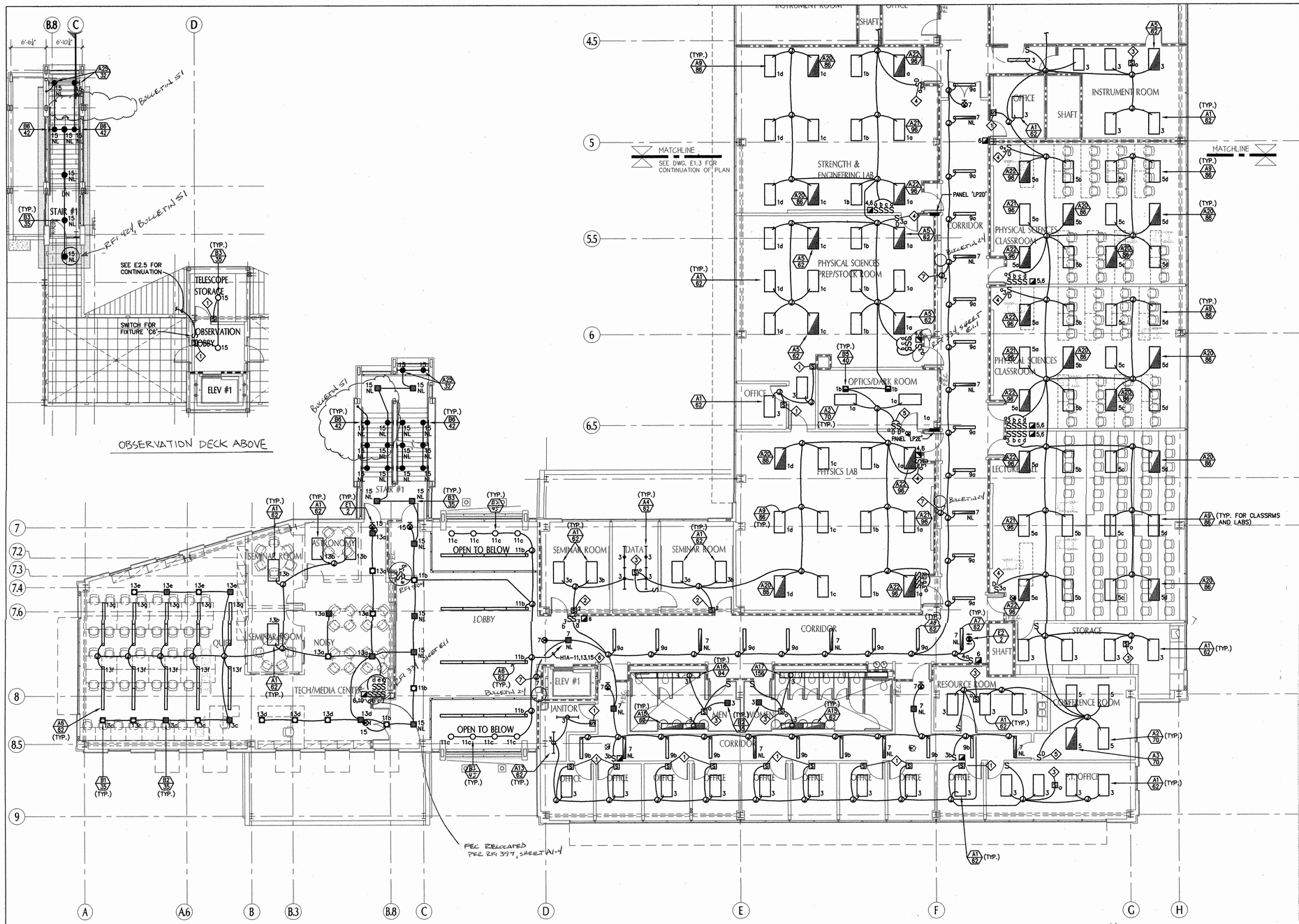
1

Toft Wolff Farrow confirms that the light switches on the West wall of Lobby 201 should be designated as follows:
Switch designated as 'e' should be 'b';
Switch designated as 'g' should be 'c' and just a single pole switch(no 3-way switch).

Jim Weaver / tBP Architecture
Larry Lai / TWF

3/21/07

**RFI # 000**
**Page 1**

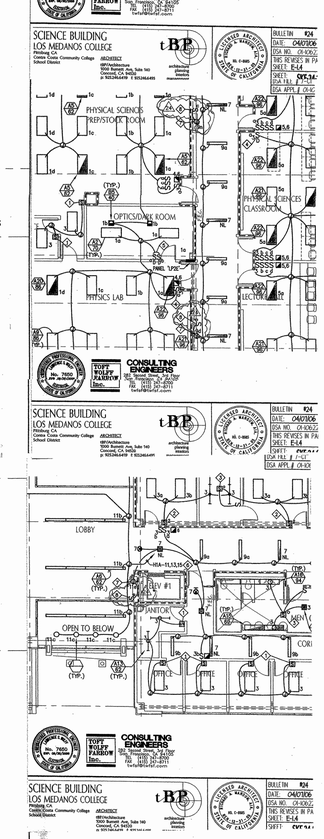



## SHEET NOTES

1. OCCUPANCY SENSOR, WALL MOUNTED, WATTSTOPPER #WI-200.
2. OCCUPANCY SENSOR, WALL MOUNTED, DUAL LEVEL, WATTSTOPPER #WI-300.
3. OCCUPANCY SENSOR, CEILING MOUNTED WITH POWER PACK, WATTSTOPPER #CI-200.
4. DIMMER SWITCH, LUTRON #NF-103P-277.
5. DIMMER SWITCH, LUTRON #NF-10-277.
6. ROUTE CIRCUITS H1A-11,13 TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
7. 277V JUNCTION BOX FOR DISPLAY CASE LIGHT FIXTURE.

DSA FILE # 7-C1
DSA APPL # OR-6

SHEET NOTES
1. OCCUPANCY SENSOR, WALL MOUNTED, WATTSTOPPER #WI-200.
2. OCCUPANCY SENSOR, WALL MOUNTED, DUAL LEVEL, WATTSTOPPER #WI-300.
3. OCCUPANCY SENSOR, CEILING MOUNTED WITH POWER PACK, WATTSTOPPER #CI-200.
4. DIMMER SWITCH, LUTRON #NF-103P-277.
5. DIMMER SWITCH, LUTRON #NF-10-277.
6. ROUTE CIRCUITS H1A-11,13 TO PANEL 'H1A' VIA LIGHTING CONTROL PANEL 'L1'.
7. 277V JUNCTION BOX FOR DISPLAY CASE LIGHT FIXTURE.
A. 8. TOGGLE SWITCH FOR DISPLAY CASE LIGHT FIXTURE, +48" AFF. COORDINATE LOCATION OF SWITCH WITH ARCHITECT.




## Bulletin No.24

Date: April 13, 2006

To: S.J. Amoroso Construction
590 Bridge Parkway
Redwood shores CA 94065

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 05-106026; File # 7-C1
tBP P/N 20247.00

Description: REFERENCE: Bulletin #8, A1-1 to A1-4, 104.04, RE-1.1 to RE-1.2, E-1.3 to E1.4.

Relocated (1) J-box for (1) relocated display case per Bulletin #8. New location of J-box for display case is at south wall of Lobby #140. See SKE-24.1 and Bulletin #8.

Provide (1) switch to each display case. Switches are to be located on wall adjacent to the display cases, see SKE-24.1 to SKE 24.10. See SKA-08.1/Bulletin #8 and sheet A1-1 to A1-4 for total of (8) locations of display cases.

Provide submittal for the display cases.

Issued By: Architect
Requested By: Architect
Reason: Coordination switches for integral lighting in display cases
Enclosures: SKE-24.1 to SKE-24.10

Distribution:

| Copies: | Name: | Organization: |
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| 1 copy | File 20247.007.4 | tBP/Architecture |
| 1 copy | Larry Lal | TWF |

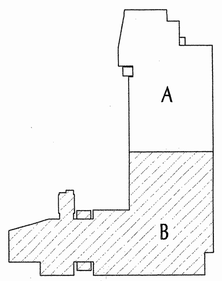
Action:
- ☐ For Information/Clarification only
- ☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
- ☐ Requires DSA review and approval.
- ☐ Proceed as authorized by District

tBP/Architecture 1000 Burnett Ave, Suite 140 Concord, CA. 94520 ph: 925.246.6419 fax: 925.246.6495

CAMPUS NORTH
TRUE NORTH
0 2 4 8 16

2ND FLOOR PLAN PART "B" | 1
SCALE: 1/8"=1'-0"

## KEY PLAN




TWF #030058.00

tBP
architecture
planning
interiors
management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495
architect

CONSULTING ENGINEERS
TOFT WOLFF FARROW Inc.
292 Second Street, 3rd Floor
San Francisco, CA 94105
TEL (415) 247-8700
FAX (415) 247-8701
twfs@twfsf.com
consultant

DIV. CONSTRUCTION STAMP
DSA-DIVISION OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL - 05-106026
Date 1-13-06

name
address
city, state, zip
ph:
fax:
agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name: 2n-FLR-A
drawn by: LLAI checked by: LSM
date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|

drawing title:
2nd FLOOR PLAN
PART "B" - LIGHTING

LMC SCIENCE 313-023-112.01-0-00.00
drawing no: E-1.4

## S. J. AMOROSO
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495
**Subj.:** VAV Transformer Panels
**Reference (dwg, spec.):**
**Reply Requested By:** 12/26/06

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00
**RFI No:** 452
Subcontractor RFI: CommAir 5

**INFORMATION REQUESTED:** **Date:** 12/19/06

Please note the attached CommAir (Monterey Sub) RFI No. 5 regarding additional panels needed for the VAV Transformers. CommAir suggests that these panels be placed on the first and second floor Electrical Rooms. CommAir will be providing the two new panels and Scott Electric has approved the locations of these panels. Please confirm that the location for the new VAV Transformer Panels is acceptable.

**SUGGESTED SOLUTION:**
**Cost Impact:** ☑ ? any **Schedule Impact:** ☐ days **By:** Mark Delgado

**RESPONSE:** **DATE:** 12/20/06

TWF has no objection to the proposed location of VAV transformer panels. Provide door stops to prevent doors from swinging into panels.

Larry Lai

RFI # 000
Page 1

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## CommAir — REQUEST FOR I/NFORMATION

1001 Shary Circle # 10, Concord, California 94518
(925) 772-9340 / fax (925) 686-5209

| | |
|---|---|
| DATE | 12/11/2006 |
| RFI# | 0005 |
| JOB NO | 687C00016 |
| BY | Chris Olvera |
| PROJECT | LMC Science |
| DIST | |

**TO** Monterey Mechanical, 3665 Wilbur Ave, Antioch, CA 94509, 925-757-4640 Fax 757-0574
**ATTN** Dan Riedmiller

**Title or Section of Work** Lighting
**Drawing Location** **Specification Location**
**Cost Impact** ☐ Yes ☐ No **Estimate**
**Time Impact** ☐ Yes ☐ No **Estimate**

**Description of Problem / Attach sketches as required**
1. VAV Transformer panels: The length of the run for the transformer panels are still too long and will cause too much of a power drop for the VAV controllers on the North end of the building on the first and second floors. Additional panels will need to be installed and a 120V circuit made available for these panels. See Below!

**Response Requested By** Christopher J. Olvera – (510) 772-9340

**Proposed Solution**
We are planning to install another panel on the first and second floor (North Side) Electrical Rooms. We understand these rooms are very tight for wall space, so the plan is to install a 24x24 by 4 inch deep panel behind the swing of the doors in these rooms. There is plenty of wall space there and access to these panels will not be required once the system is up and running. We have discussed this issue with the Engineer and he did not have an issue with the second transformer panels in these rooms.

| | |
|---|---|
| Signed | Christopher J. Olvera |
| Organization | CommAir-Carrier |
| Date | 12/11/2006 |
| Distribution | ☐ Architect ☐ Super ☐ Mech. Eng ☐ Elec. Eng. ☐ Owner ☐ |

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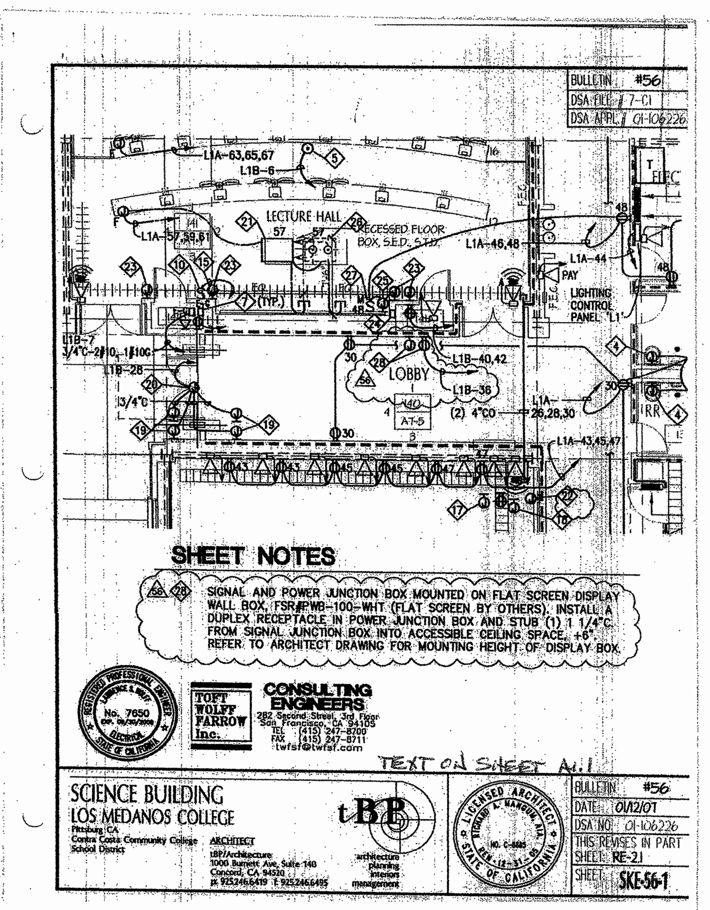


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## Bulletin No. 10G

**Date:** 10/24/2006

**To:** S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
tBP P/N 20247.00

**Description:** REFERENCE: RE 2-1, RE3-1

1. Added (1) 20 amp double duplex receptacle in Room 141A – closet for A/V equipment. See attached sketch SKE-10G-1.
2. Revised panel schedule 'L1B' for added circuits. See attached sketch SKE-10G-2.

**Issued By:** Architect
**Requested By:** Owner
**Reason:** AV coordination - Add (1) receptacle in Room 141A – AV closet
**Enclosures:** SKE-10G.1 and SKE-10G.2

**Distribution:**

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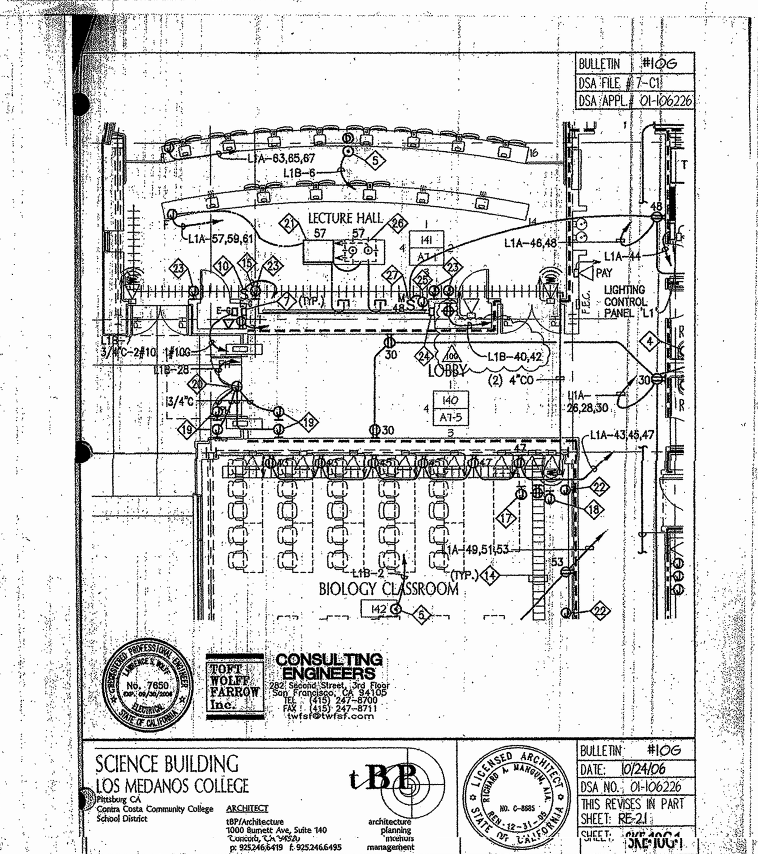
| 1 copy | Veronica Roussel | Starmedia Consultant |
| 1 copy | Larry Lai | TWF |

**Action:**
☐ For Information/Clarification only
☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
☐ Requires DSA review and approval
☐ Proceed as authorized by District



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## Bulletin No. 39

**Date:** 8/7/2006

**To:** S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
tBP P/N 20247.00

**Description:** REFERENCE: sheets M1.1 to M2.4, E-3.1

Provide and install, for each 24 volt VAV transformer that is located in the VAV box controller on floors 1 and 2, a toggle type disconnect switch so that each VAV transformer can be isolated without turning power off to the other boxes. Also each disconnect switch shall be labeled/identified by VAV box number.

For the first floor utilize circuit 'L1B-42'

For the second floor utilize circuit 'L2A-36'.

SEE RFI-350 for DISCONNECT SWITCHES TO VAV BOXES
RFI-396 for VAV Locations/Switch Clarification

**Issued By:** Architect
**Requested By:** Owner
**Reason:** Provide disconnect switch to each of the VAV box.
**Enclosures:** none

**Distribution:**

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| 1 copy | Larry Lai | TWF |
| 1 copy | Dave Weston | AAME |

**Action:**
☐ For Information/Clarification only
☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
☐ Requires DSA review and approval
☐ Proceed as authorized by District



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## Bulletin No. 40

**Date:** October 16, 2006

**To:** S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
tBP P/N 20247.00

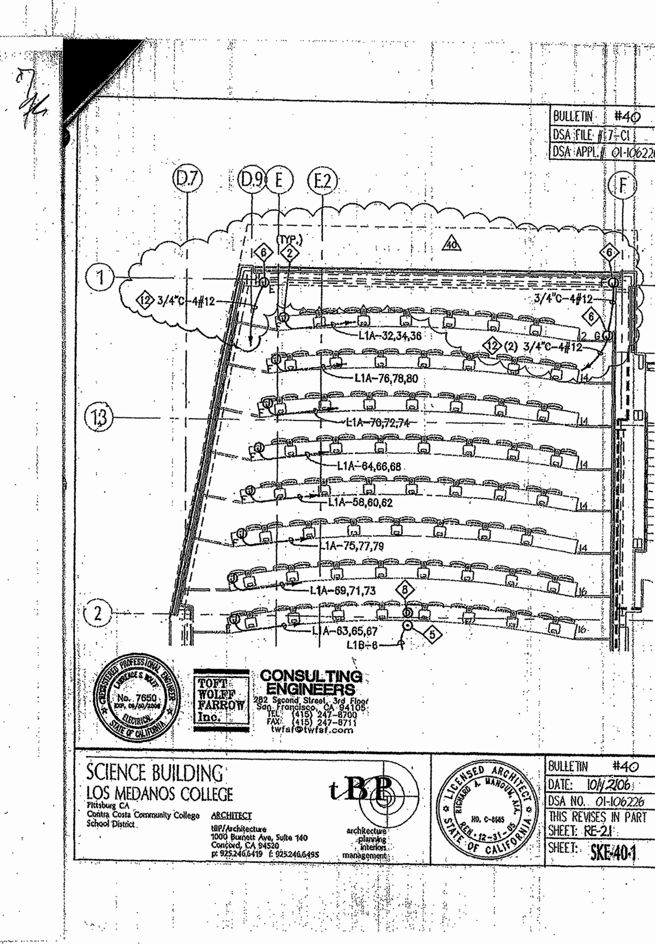
**Description:** REFERENCE: RE-2.1, RE-2.3, RE-2.4, Submittal #82 – Shades:

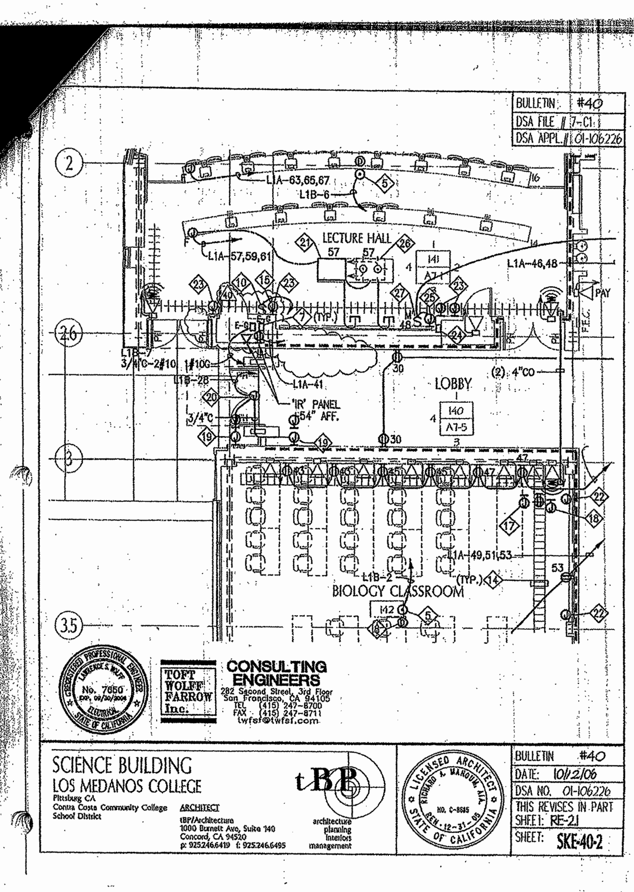
1. Refer to sketch SKE-40.1: Revised location of shade motor junction boxes. Provide credit to the material and labor of the (2) motor deleted J-box.
2. Refer to sketch SKE-40.2: Revised quantity of motorized shade control boxes and switches. Provide credit to the material and labor of the (3) deleted control box and (3) deleted switches.
3. Refer to sketch SKE-40.3: Revised sheet notes #7, and #14 pertaining to motorized shade requirements. Sheet notes #11 and #16 are deleted. Provide credit to the reduced scope of work in regarding the shade requirments.
4. Refer to sketch SKE-40.4: Revised location of shade motor junction boxes. Provide credit to the material and labor of the (2) deleted motor J-boxes.
5. Refer to sketch SKE-40.5: Revised sheet notes #10 pertaining to motorized shade requirements. Provide credit to reduction of (4) junction box locations down to (2) junction box locations.
6. Refer to sketch SKE-40.6: Revised location of shade motor junction boxes. Provide credit to the material and labor of the (2) deleted motor J-boxes.
7. Refer to sketch SKE-40.7: Revised sheet notes pertaining to motorized shade requirements. Provide credit should be due to reduction of (4) junction box locations down to (2) junction box locations.

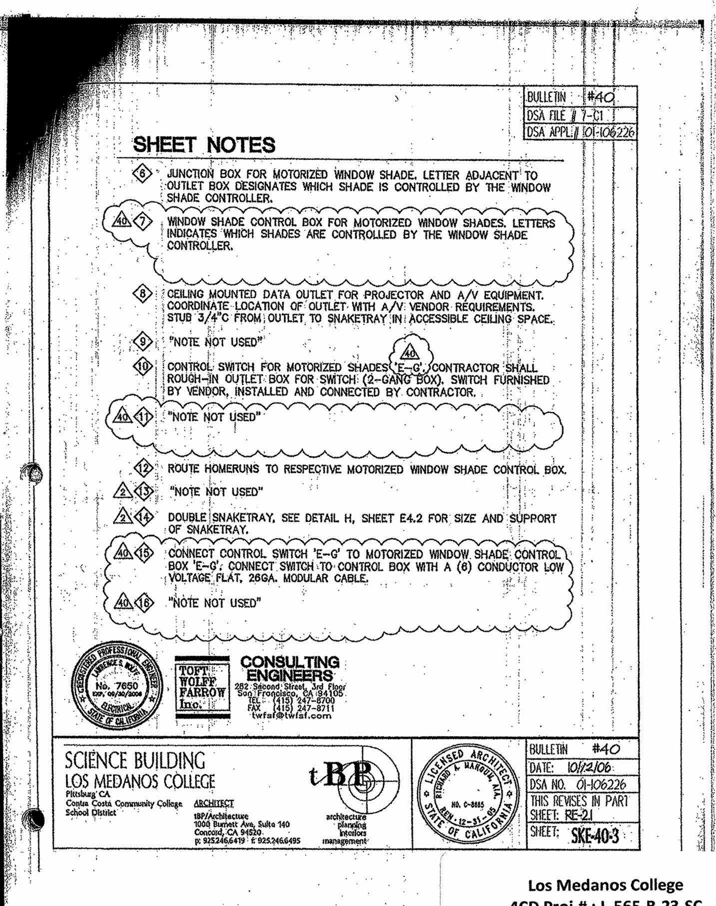
**Issued By:** Architect
**Requested By:** Architect

cc: EWS : PENINSULATORS





**S. J. AMOROSO**
Request For
Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00

Subj.: Furniture Layout for Electrical Outlets
Reference (dwg, spec.): RE-2.1, 2.2, 2.3, 2.4
Reply Requested By: 9/28/06

RFI No: 353
Subcontractor RFI: EWS 32
Date: 9/21/06

INFORMATION REQUESTED:

Please note the attached EWS RFI No. 32 regarding a furniture layout for rooms 142, 131, 130, 152, 231 and 230. EWS would like to scale the data and receptacle outlets in these rooms. Note the attached dwg.s for the location of the outlets. Please advise.

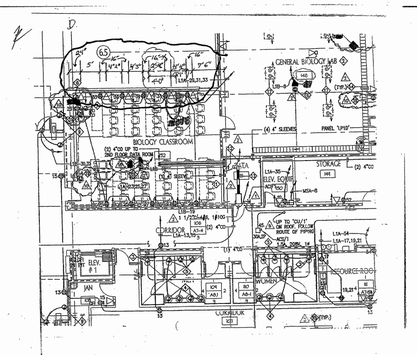
SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

See attached furniture drawings from RI for locations of data and receptacle outlets. Contractor to reference the RI furniture drawings for outlets locations in Rooms #142, 131, 130, 152, 231 and 230 only, except the north wall of Room #152.
See clarification to location of (1) Receptacle outlet at the north wall of Room #152 as indicated in the attached mark up.

Vanessa Ling/SBP - 10/3/06

RFI # 000
Page 1




**S. J. AMOROSO**
Request For
Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00

Subj.: Door Switches in Rooms 101 and 140
Reference (dwg, spec.): Bulletin No. 44
Reply Requested By: 9/18/06

RFI No: 345
Subcontractor RFI: EWS 30
Date: 9/11/06

INFORMATION REQUESTED:

Please note the attached ~~Bulletin Notes~~ RFI No. 30 regarding the Door Switches at the entrances of Rooms 101 and 140 per Bulletin No. 44. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE: 09/11/06

TWF takes no exception to the contractor installing outlet boxes for door switches per contract documents, except additional door switch outlet boxes shall be installed per Bulletin No. 44.

Larry Lai

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: SCIENCE BLDG. R.F.I. # 30 R.F.I. Date 9/3/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF DWG: RDL-RFI RE-2.1-2.2
LOCATION: LOBBY IDLE NO

POTENTIAL COST IMPACT
___ COST ___ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: THE ATTACHED SKETCH SKA-44 WHICH WAS PART OF BULLETIN 44 DOES NOT APPLY TO THE OUTRIGGER TO LOBBY IDLE NO. 4 AND EXCLUDING PARTIAL WALLS AS SCHA CONDITIONS AT THOSE LOCATIONS AS REQUESTED BY LARRY LAI OF EWS WE WOULD LIKE TO INSTALL THE DOOR OUTLETS AS SHOWN ON THE CONTRACT DWGS.

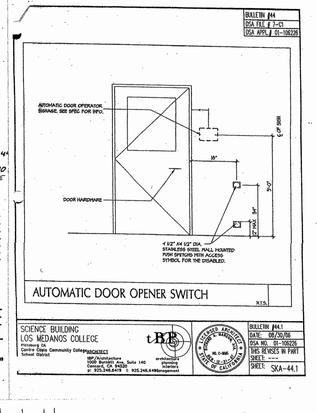
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

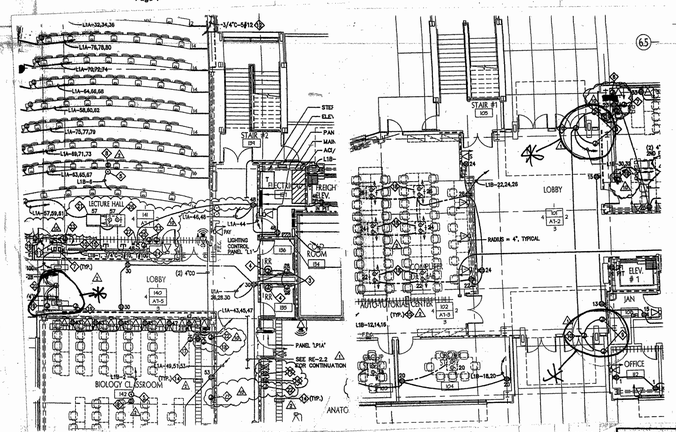
RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190436

RFI # 000
Page 1




**Bulletin No.44** (SEE RFI 345 - FOR DOOR SWITCHES IN ROOMS 101 and 140)

Date: August 30, 2006
To: S.J. Amoroso Construction, 300 Bridge Parkway, Redwood shores CA 94065
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District, DSA No. 01-106226, File # 7-C1, tBP P/N# 20247.00
Description: REFERENCE: Keynote E21(A)-1.2, Notes #7&10.

See attached SKA-44.1 for clarification to mounting height of "Automatic Door Opener Switches". In note #7&10, the mounting height is indicated to be between 30" to 44" AFF. For clarification only, mounting height of Opener Switches are to be as shown on SKA-44.1.

Issued By: Architect
Requested By: Architect, Owner
Reason: Clarification of Automatic Door Opener Switches
Enclosures: SKA-44.1

| Distribution: | Copies: | Name: | Organization: |
|---|---|---|---|
| | 1 copy | Mark Delgado | S. J. Amoroso |
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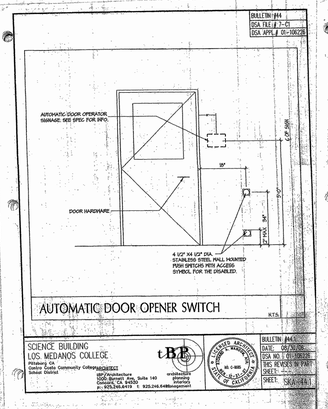
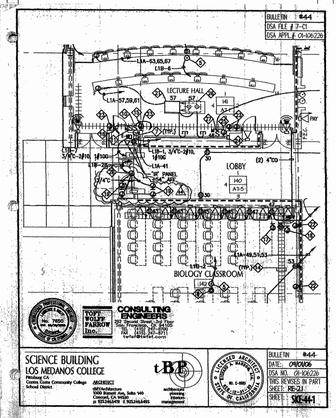
| | 1 copy | File 20247.007-4 | tBP/Architecture |

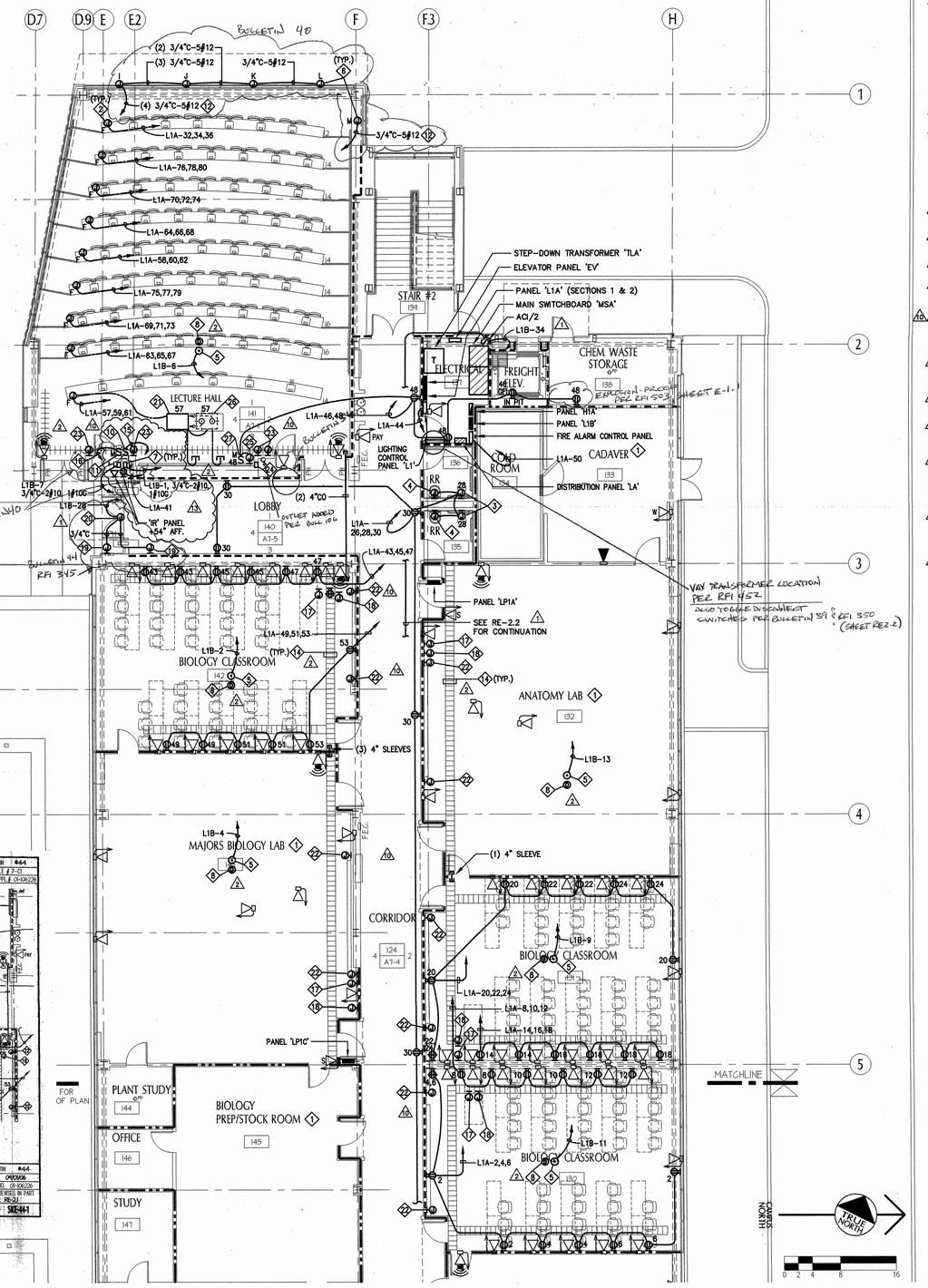
Action:
☒ For Information/Clarification only
☐ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
☐ Requires DSA review and approval
☐ Proceed as authorized by District

EVA SCOTT
BULLETT
CONTROL

tBP/Architecture 1000 Burnett Ave. Suite 140 Concord, CA. 94520 p/o 925.246.6495 fax 925.246.6495



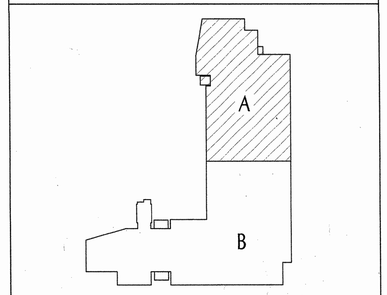




## SHEET NOTES

1. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
2. FLOOR MOUNTED JUNCTION BOX FOR POWER FEED TO 'POWER UP MODULES' AT BASE OF CLASS ROOM TABLES.
3. 120V JUNCTION BOX WITH TRANSFORMER (BY OTHERS) FOR FLUSH VALVE SENSOR.
4. 120V JUNCTION BOX FOR FAUCET MOTION SENSOR.
5. CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF RECEPTACLE WITH A/V VENDOR REQUIREMENTS.
6. JUNCTION BOX FOR MOTORIZED WINDOW SHADE. LETTER ADJACENT TO OUTLET BOX DESIGNATES WHICH SHADE IS CONTROLLED BY THE WINDOW SHADE CONTROLLER.
7. WINDOW SHADE CONTROL BOX FOR MOTORIZED WINDOW SHADES. LETTERS INDICATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
8. CEILING MOUNTED DATA OUTLET FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF OUTLET WITH A/V VENDOR REQUIREMENTS. STUB 3/4"C FROM OUTLET TO SNAKETRAY IN ACCESSIBLE CEILING SPACE.
9. "NOTE NOT USED"
10. CONTROL SWITCH FOR MOTORIZED SHADES 'I'–'L'. CONTRACTOR SHALL ROUGH–IN OUTLET BOX FOR SWITCH (2–GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
11. CONTROL SWITCH FOR MOTORIZED SHADE 'M'. CONTRACTOR SHALL ROUGH–IN OUTLET BOX FOR SWITCH (2–GANG BOX). SWITCH FURNISHED BY VENDOR AND CONNECTED BY CONTRACTOR.
12. ROUTE HOMERUNS TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
13. "NOTE NOT USED"
14. DOUBLE SNAKETRAY, SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
15. CONNECT CONTROL SWITCH 'I–L' TO MOTORIZED WINDOW SHADE CONTROL BOX 'I–L'
16. CONNECT CONTROL SWITCH 'M' TO MOTORIZED WINDOW SHADE CONTROL BOX 'M'.
17. STUB (2) 1 1/4"C FROM (2) 2–GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +18" AFF.
18. STUB (1) 3/4"C FROM 1–GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +48" AFF.
19. 4" SQ. JUNCTION BOX FOR AUTOMATIC DOOR (PUSH PLATE BY OTHERS).
20. SINGLE GANG JUNCTION BOX FOR AUTOMATIC DOOR OPERATOR. COORDINATE LOCATION OF AUTOMATIC DOOR OPERATOR WITH MANUFACTURER REQUIREMENTS.
21. RECESSED FLOOR BOX STUB (2)1 1/4"C FROM FLOOR BOX INTO ACCESSIBLE CEILING SPACE, +6". (1)DUPLEX RECEPTACLE INSTALLED IN FLOOR BOX. MYSTERY ELECTRONICS #FMCA 3000SERIES/3488–BR, WITH #BB300008" BACKBOX (FOR A/V USE).
22. 1–GANG MUD RING FOR A/V SYSTEM WALL SPEAKER (BY OTHERS. MOUNT 1–GANG MUD RING AT +105" AFF. MOUNTING LOCATION SHALL BE COORDINATED WITH A/V CONTRACTOR.
23. STUB (1) 3/4"C FROM 1–GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +96" AFF.
24. 12"x12"x4" 'DEEP HOFFMAN' BOX, RECESS MOUNTED, +18" AFF. STUB (4) 1 1/4"C FROM HOFFMAN BOX INTO ACOUSTICAL CEILING SPACE, +6". COORDINATE FINAL LOCATION OF BOX WITH A/V CONTRACTOR.
25. 1–GANG OUTLET BOX FOR 'LOW VOLTAGE CONTROL PLATE' AND SWITCH. AT WALL FOR PROJECTION SCREEN. MOUNT BOX AT +48" AFF. STUB (1) 3/4"C FROM OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". 'LOW VOLTAGE CONTROL PLATE' AND SWITCH FURNISHED BY OTHERS INSTALLED BY CONTRACTOR.
26. RECESSED FLOOR BOX, WIREMOLD #RFB4 WITH ONE DUPLEX RECEPTACLE. COORDINATE NUMBER OF DATA OUTLETS WITH TELCOM DRAWINGS. STUB (2) 1 1/4"C FROM FLOOR BOX TO SNAKETRAY IN ACCESSIBLE CEILING SPACE, +6".
27. DISCONNECT SWITCH FOR PROJECTION SCREEN COORDINATE LOCATION OF SWITCH WITH PROJECTION SCREEN VENDOR.

ALL OUTLET LOCATIONS PER RFI 353
SEE SHEET 1 OF 2, E.1 FROM KZ

## KEY PLAN




1ST FLOOR PLAN PART "A"
SCALE: 1/8" = 1'-0"

1

TWF #03058.00


tBP
architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p. 925.246.6419 f. 925.246.6495


LICENSED ARCHITECT — VIRGINIA — STATE OF CALIFORNIA

architect

REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA — No. 7850

CONSULTING ENGINEERS
TOFT WOLFF FARROW Inc.
282 Second Street, 3rd Floor
San Francisco, CA 94105
(415) 247-8700
FAX (415) 247-8711
twf@twfeng.com

consultants

IDENTIFICATION STAMP
OFFICE OF THE STATE ARCHITECT
CONCURRENCE REQUIRED
APPR. - 09/06/06
AC. ___ RS ___ SS ___
DATE ___

name
address
city, state, zip
ph: fx:

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name: 1s-FLR-A
drawn by: LLAI checked by: LSH
date: NOVEMBER 15, 2004

| | | |
|---|---|---|
| 1 | 3/18/05 | ADDENDUM #1 |
| 2 | 4/19/05 | ADDENDUM #2 |
| 10 | | BULLETIN #10 & 13 |
| 13 | 03/07/06 | BULLETIN #13 |

drawing title:
1st FLOOR PLAN
PART "A" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
RE-2.1

SEE ALSO E-2.1 FOR AS-BUILT POSTINGS

NOTE: LEAVE ONE (1) VERTICAL TO ARCHITECT ABOUT THEIR ELEVATIONS.

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00 ,

Subj.: Layout of equipment in Electrical room 137
RFI No: **154**
Reference (dwg, spec.): E2.1
Subcontractor RFI: EWS 12
Reply Requested By: 2/27/06

INFORMATION REQUESTED: Date: 2/23/06

URGENT:
See attached form EW Scott addressing urgent concerns about the layout of equipment in the main electrical room, room 137. This is urgent so that underground can be roughed in ahead of our slab concrete placement. Briefly, that layout shown on sheet E2.1 will not work due to conflicts with structural footings, foundations, steel bracing and wall space. EW Scott has provided a possible alternative layout for this room. Please carefully review for feasibility and provide direction on layout for this room.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 3.24.06

IBP has no objection to the proposed layout.

IBP response: Maintain 13" clear at strike side of door.

Attachments: S. 141/787
By:

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | IBP / ARCHITECTURE | 2/24/06 |
| IBP / ARCHITECTURE | ENGINEER/CONSULTANT | 2.24.06 |
| ENGINEER/CONSULTANT | IBP / ARCHITECTURE | 2.24.06 |
| IBP / ARCHITECTURE | S.J. AMOROSO | 2.24.06 |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

RFI 154

## REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I.# 12 R.F.I. Date 2/23/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: E2.1
LOCATION: ELEC. RM 137

POTENTIAL COST IMPACT: ___ COST ✓ SCHEDULE ___ OTHER ___ LABOR ___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: DUE TO STRUCTURAL FOOTINGS, FOUNDATIONS, STEEL BRACING & WALL SPACE THE ELEC. RM. CANNOT LAYOUT AS SHOWN ON DWG. E2.1. I AM INCLUDING A SKETCH AS A POSSIBLE ALTERNATIVE FOR YOUR REVIEW. I CAN ONLY VERIFY THE SWITCHGEAR DIMENSIONS. ROOM AND WALL DIMENSIONS MAY NOT BE EXACT. PAY PARTICULAR ATTENTION TO PANEL-EY WHICH MAY NEED TO BE RELOCATED DUE TO THE CROSS BRACE AT GRID LINE 2. PLEASE REVIEW FOR FEASABILITY. WE SHALL WAIT FOR DIRECTION

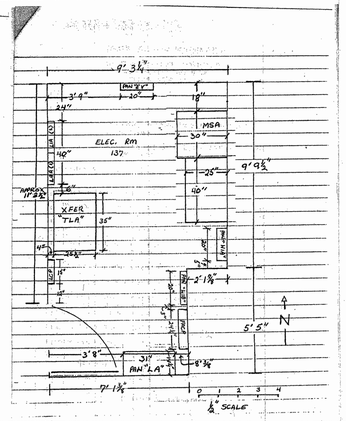
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

RFDOC39

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**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Receptacle and Data Outlets in Room 142
RFI No: **380**
Reference (dwg, spec.): 2.E.1
Subcontractor RFI: EWS 42
Reply Requested By: 10/17/06

INFORMATION REQUESTED: Date: 10/10/06

Please note the attached EWS RFI No. 42 regarding shifting the Receptacle and Data Outlets as shown on the attached Drawings due to plumbing. Please advise if this is acceptable.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

Moving the outlets 12" will put them at the edge of the table.
Anything Scott Electric could do to make it closer would be better. (like put one below the other)
Make sure the outlets both stay under the table. Please note that the tables are 24" deep.
It is OK to have them at the edge - just not past.

Kent Knight/Dovetail - 10/10/06
by Vanessa Ling

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

## REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I.# 42 R.F.I. Date 10/10/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: LE 2.E.1 (E1)
LOCATION: BIO. CLASSROOM 142

POTENTIAL COST IMPACT: ___ COST ✓ SCHEDULE ___ OTHER ___ LABOR ___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: IT WILL BE NECESSARY TO SHIFT THE RECEPT. & DATA OUTLETS AS SHOWN ON THE ATTACHED DWG DUE TO PLUMBING

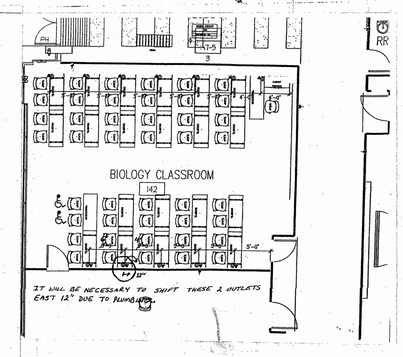
REPLY REQUIRED BY: 10/14/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

RFDOC39

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**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Receptacle and Data Outlets in Room 142
RFI No: **380.1**
Reference (dwg, spec.): 2.E.1
Subcontractor RFI: EWS 42.1
Reply Requested By: 10/27/06

INFORMATION REQUESTED: Date: 10/20/06

Please note the attached EWS RFI No. 42.1 regarding the installation of both outlets under the table which is not possible. The Receptacle will be located under the table but the Data will be 6" east of the table edge. Also a conflict on the north wall has been discovered, the outlets need to be shifted 24" east due to structural framing. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

Moving the p/d on the north wall is OK. Please see the attached sketch for the rest of my response to the RFI #380.1. This will move all of the p/d on the south wall.

Let me know if it takes care of the move needed due to plumbing.
Contact me with any questions.

Kent Knight/Dovetail - 10/24/06

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

## REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I.# 42.1 R.F.I. Date 10/20/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: LE 2.E.1 (E1)
LOCATION: BIO. CLASSROOM 142

POTENTIAL COST IMPACT: ___ COST ✓ SCHEDULE ___ OTHER ___ LABOR ___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: IN REGARDS TO RFI #42 RESPONSE IT IS NOT POSIBLE TO INSTALL BOTH OUTLETS UNDER THE TABLE THE RECEPT. WILL BE UNDER THE TABLE BUT THE DATA WILL BE 6" EAST OF THE TABLE EDGE.
WE HAVE ALSO DISCOVERED A CONFLICT ON THE NORTH WALL WHERE THE OUTLETS NEED TO BE SHIFTED 24" EAST DUE TO STRUCTURAL FRAMING. SEE ATTACHED SKETCH.

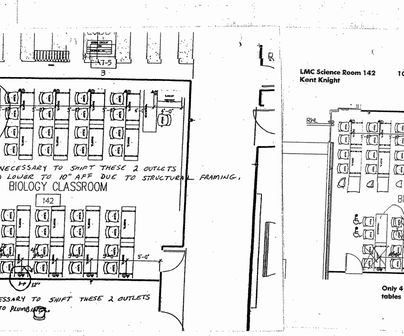
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

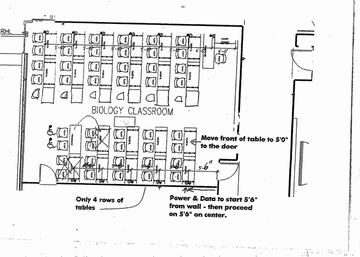
DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

RFDOC39




LMC Science Room 142 10-23-06
Kent Knight

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**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Receptacle and Data Outlets in Room 142
RFI No: **380.1**
Reference (dwg, spec.): 2.E.1
Subcontractor RFI: EWS 42.1
Reply Requested By: 10/27/06

INFORMATION REQUESTED: Date: 10/20/06

Please note the attached EWS RFI No. 42.1 regarding the installation of both outlets under the table which is not possible. The Receptacle will be located under the table but the Data will be 6" east of the table edge. Also a conflict on the north wall has been discovered, the outlets need to be shifted 24" east due to structural framing. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

Moving the p/d on the north wall is OK. Please see the attached sketch for the rest of my response to the RFI #380.1. This will move all of the p/d on the south wall.

Let me know if it takes care of the move needed due to plumbing.
Contact me with any questions.

Kent Knight/Dovetail - 10/24/06

After Joe/EEE commented most of the outlets and data are installed at 10/25/06, see Kent Knight's revised response to this RFI:
Since they are already installed, we can live with the outlets where they are EXCEPT the one that they are proposing to move East CANNOT move East - it can however, move West up to 20" if need be.

Kent Knight/Dovetail - 10/25/06

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

## REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I.# 42.1 R.F.I. Date 10/20/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: LE 2.E.1 (E1)
LOCATION: BIO. CLASSROOM 142

POTENTIAL COST IMPACT: ___ COST ✓ SCHEDULE ___ OTHER ___ LABOR ___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: IN REGARDS TO RFI #42 RESPONSE IT IS NOT POSIBLE TO INSTALL BOTH OUTLETS UNDER THE TABLE THE RECEPT. WILL BE UNDER THE TABLE BUT THE DATA WILL BE 6" EAST OF THE TABLE EDGE.
WE HAVE ALSO DISCOVERED A CONFLICT ON THE NORTH WALL WHERE THE OUTLETS NEED TO BE SHIFTED 24" EAST DUE TO STRUCTURAL FRAMING. SEE ATTACHED SKETCH.

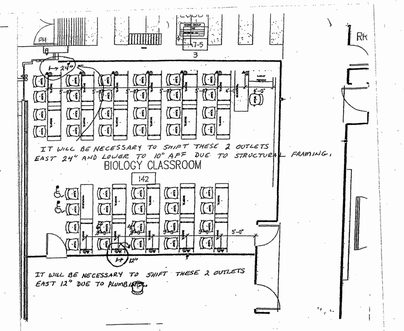
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

RFDOC39

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**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE, SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Receptacle and Data Outlets in Room 142
RFI No: **380.2**
Reference (dwg, spec.): 2.E.1
Subcontractor RFI: EWS 42.2
Reply Requested By: 11/8/06

INFORMATION REQUESTED: Date: 10/30/06

Please note the attached EWS RFI No. 42.2 regarding the response to RFI No. 380.1. The power and data outlets on the south wall or room 142 can be installed within 20" west per the reply from Kent Knight. The data outlets however will need to be raised to 26" A.F.F. The power outlet will need to stay at 18" A.F.F. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

See attached sketch from Kent/Dovetail regarding the case out of meeting with Joe on 11/3/06.

Kent Knight/Dovetail - 11/8/06

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

## REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I.# 42.2 R.F.I. Date 10/30/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: S.J. AMOROSO
REF. DWG: LE 2.E.1 (E1)
LOCATION: BIO CLASSROOM 142

POTENTIAL COST IMPACT: ___ COST ___ SCHEDULE ___ OTHER ___ LABOR ___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: IN REPLY TO KENT KNIGHT'S ADVISED RESPONSE TO THE DUE DATA OUTLETS ON THE SOUTH WALL OF RM 142 WE CAN INSTALL THE OUTLETS WITHIN 20" WEST. THE DATA OUTLET, HOWEVER WILL NEED TO BE RAISED TO 26" AFF. THE POWER OUTLET WILL NEED TO STAY AT 18" AFF. BE ADVISED THAT JEFF PHILLIPS DID TAKE PICTURES OF THIS PARTICULAR SITUATION.

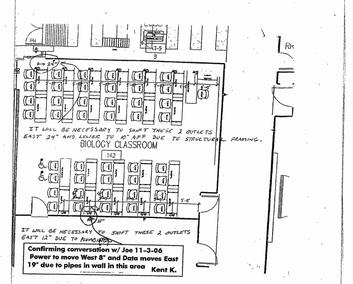
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

RFDOC39



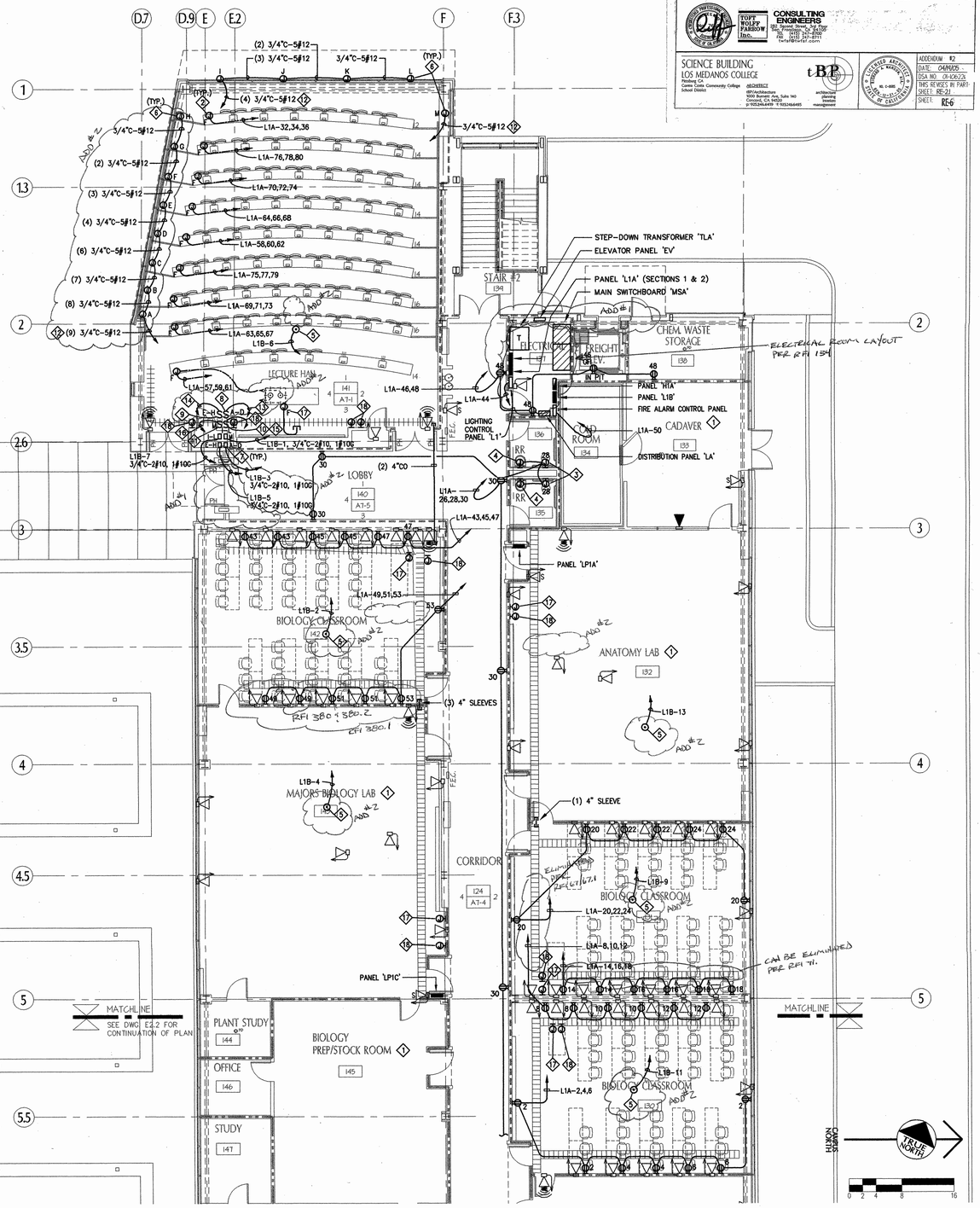

Los Medanos College
4CD Proj.# : L-565-B-23-SC
**Science Building**

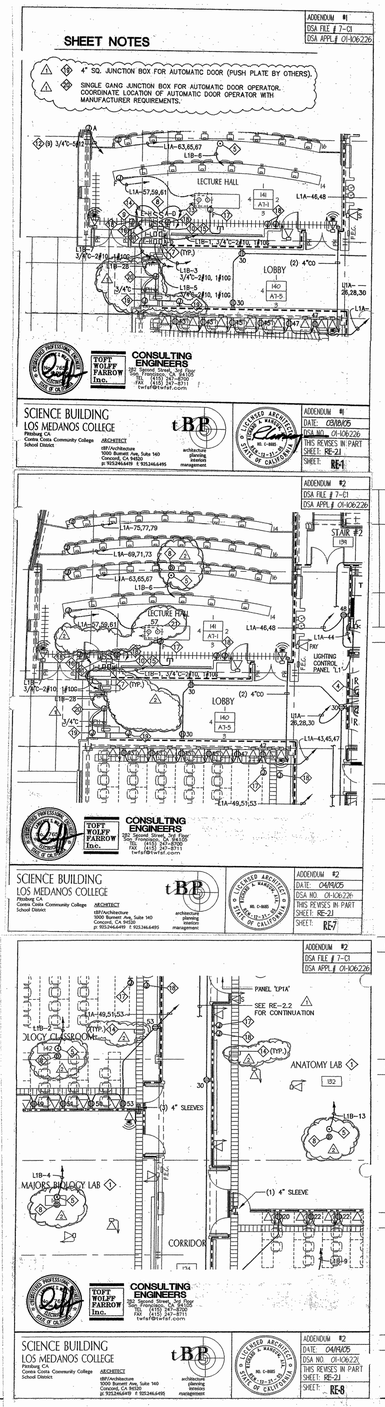
## SHEET NOTES

1. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
2. FLOOR MOUNTED JUNCTION BOX FOR POWER FEED TO 'POWER UP MODULES' AT BASE OF CLASS ROOM TABLES.
3. 120V JUNCTION BOX WITH TRANSFORMER (BY OTHERS) FOR FLUSH VALVE SENSOR.
4. 120V JUNCTION BOX FOR FAUCET MOTION SENSOR.
5. DUPLEX RECEPTACLE FOR CEILING MOUNTED PROJECTOR. RECEPTACLE FOR PROJECTOR INSTALLED IN CEILING SPACE. COORDINATE EXACT LOCATION OF PROJECTOR WITH ARCHITECT 'RCP' DRAWINGS.
6. JUNCTION BOX FOR MOTORIZED WINDOW SHADE. LETTER ADJACENT TO OUTLET BOX DESIGNATES WHICH SHADE IS CONTROLLED BY THE WINDOW SHADE CONTROLLER.
7. WINDOW SHADE CONTROL BOX FOR MOTORIZED WINDOW SHADES. LETTERS INDICATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
8. CONTROL SWITCH FOR MOTORIZED SHADES 'A–D'. CONTRACTOR SHALL ROUGH–IN OUTLET BOX FOR SWITCH (2–GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
9. CONTROL SWITCH FOR MOTORIZED SHADES 'E–H'. CONTRACTOR SHALL ROUGH–IN OUTLET BOX FOR SWITCH (2–GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
10. CONTROL SWITCH FOR MOTORIZED SHADES 'I–L'. CONTRACTOR SHALL ROUGH–IN OUTLET BOX FOR SWITCH (2–GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
11. CONTROL SWITCH FOR MOTORIZED SHADE 'M'. CONTRACTOR SHALL ROUGH–IN OUTLET BOX FOR SWITCH (2–GANG BOX). SWITCH FURNISHED BY VENDOR AND CONNECTED BY CONTRACTOR.
12. ROUTE HOMERUNS TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
13. CONNECT CONTROL SWITCH 'A–D' TO MOTORIZED WINDOW SHADE CONTROL BOX 'A–D'.
14. CONNECT CONTROL SWITCH 'E–H' TO MOTORIZED WINDOW SHADE CONTROL BOX 'E–H'.
15. CONNECT CONTROL SWITCH 'I–L' TO MOTORIZED WINDOW SHADE CONTROL BOX 'I–L'
16. CONNECT CONTROL SWITCH 'M' TO MOTORIZED WINDOW SHADE CONTROL BOX 'M'.
17. STUB (2) 1 1/4"C FROM 4–GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
18. STUB (1) 3/4"C FROM 1–GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".

## SHEET NOTES

1. 4" SQ. JUNCTION BOX FOR AUTOMATIC DOOR (PUSH PLATE BY OTHERS).
2. SINGLE GANG JUNCTION BOX FOR AUTOMATIC DOOR OPERATOR. COORDINATE LOCATION OF AUTOMATIC DOOR OPERATOR WITH MANUFACTURER REQUIREMENTS.




1ST FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"

1

TWF #03058.00

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number: 20241.00

file name: 1s-FLR-A

drawn by: LLAI checked by: LSW

date: NOVEMBER 15, 2004

| Rev | date | description |
|---|---|---|

drawing title:

1st FLOOR PLAN
PART "A" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00

drawing no.: E-2.1

SEE SHEET RE-2.1

name
address
city, state, zip
ph
fax

agency

consultant

TOFT WOLFF FARROW Inc.

DERIVATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPR. - 09/08/05
AC. 2 - 15
DATE 1-11-05
S 15

# Bulletin No.18

Date: March 29, 2006
To: S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
tBP JOB# 20247.00

Description: REFERENCE: E-2.2, E2.4, T1-2, T1-6

1. Per sketches attached, locate data wall box shown on perimeter wall at faculty offices 112 - 122 on the first floor and 215 – 224 on the second floor on sheets E-2.2, E2.4, T1-2, T1-4 to the partition walls between offices as shown.
2. Note that conduit stubs at first floor perimeter are to remain. Contractor to provide surface mounted raceway such as Panduit or Wiremold to route from stub to location per attached sketches SKE-18.1, SKE-18.2, SKT-18.1, SKT-18.2 and SKT-18.3.
3. Add one duplex receptacle at office 122 first floor east wall location as indicated on SKE-18.2.
4. Revise face plate of wall box as shown in Office 224 on SKT-18.6 to WHD2400.

Issued By: Architect
Requested By: Owner
Reason: Relocation of data wall boxes at faculty offices requested by Owner
Enclosures: SKS-18.1 – 18.4, SKT-18.1 - 18.6

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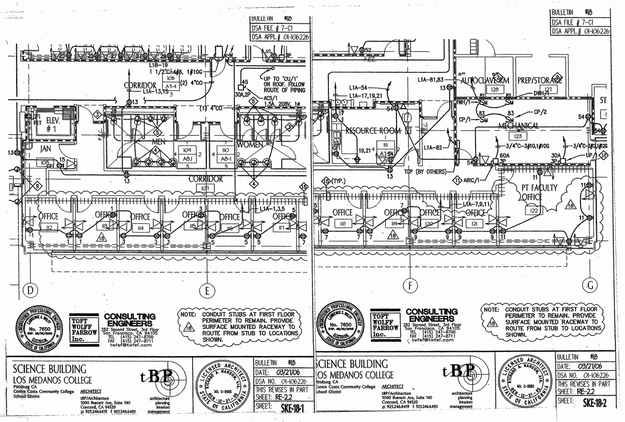
Action:
☐ For Information/Clarification only
☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
☐ Requires DSA review and approval
☒ Proceed as authorized by District

tBP architecture planning interiors management
1000 Burnett Ave., Suite 140 Concord, CA 94520 p: 925.246.6419 f: 925.246.0480




# Bulletin No.10C

Date: March 15, 2006
To: S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
tBP JOB# 20247.00

Description: REFERENCE: Submittal #43 - Lab Casework Shop drawings. Submittal #70 – Under Floor Boxes. Ad-3, RE2.2, LE1-1b and LE1-1a for revision to FIRST FLOOR AREA "B":

Laboratory:

1. Delete AV cabinets in Microbiology/ Microphysiology Lab– Room #129 and General Biology Lab – Room #148, provide credit: (Refer to SKLI-10C.1 and SKLI-10C.2)

Electrical:

The following revisions apply to drawing RE2-2:

2. Sheet note #6 is revised to (2) 2-gang outlet box, and J-box to be mounted at +18" AFF.
3. For Microbiology/ Microphysiology Lab– Room #129 and General Biology Lab – Room #148 only: Delete (1) J-box symbol for keynote symbol #6. Provide credit of removed J-box and conduit.
4. Sheet note #7 is revised for J-box to be mounted at +48" AFF.
5. For Microbiology/ Microphysiology Lab– Room #129 and General Biology Lab – Room #148 only: Delete (1) J-box symbol for keynote symbol #7. Provide credit of removed J-box and conduit.
6. Sheet note #8 is revised to Double Duplex at projector, typical.
7. Sheet note #16 is revised to Data Outlet for projector and A/V equipment.
8. Add sheet note #19 for 2-gang Mud Ring for wall mounted speakers (speakers by AV consultant). Final locations to be confirmed with AV contractor. Add (2) 1-gang Mud Ring (shown as J-boxes symbols) and keynote symbol #19 to the following locations:
   - West wall of Microbiology/ Microphysiology Lab– Room #129.
   - East wall of General Biology Lab – Room #148.
   - East wall of Biology Classroom – Room #152

BULLETIN # 10C
LOS MEDANOS COLLEGE SCIENCE BUILDING

9. Add Sheet note #20 for recessed Mystery Electronics Floor Box.
   - Add (1) Mystery Floor Box in General Biology Lab – Room #148. Also see line item 20 in this Bulletin for deletion of (2) floor boxes and (1) Quad Receptacle in this location per LE1-1a.
10. Delete and provide credit for the following item in PT Faculty Office – Room #122:
   - (2) J-Boxes in East Wall and the related conduits
   - (1) Duplex Receptacle for ceiling mount projector
   - (1) Ceiling mounted Data outlet and related conduit
11. Add (1) Quad Receptacle on West wall of Biology Classroom – Room #152.
12. For clarification, add keynote symbol #9 for ceiling mounted Double Duplex Receptacle for Projector and A/V equipments at Biology Classroom – Room #152.

Lab Electrical: (Refer to Drawing LE1-1b, SKLE-10C.1)

13. Revise sheet note 3 to be "NOT USED".
14. Revise note #4, new note #4 is to be: "Faculty input point. Provide junction box and (2) 1-1/2" conduit from Faculty Input point to wall and to 6'-0" above ceiling." Note #4 applies to Microbiology/ Microphysiology Lab– Room #129.
15. For clarification only, revise note #5 to "refer to Electrical Drawing (sheet RE2-2) for additional information."
16. Revise motorized projection screens for General Biology Lab – Room #148 and Microbiology/ Microphysiology Lab– Room #129 to manual operated screens.
   - J-Boxes and Switches for the motorized projection screens are deleted. Provide credit for deletion of the J-Boxes, Switches, and related wiring to main panel.
   - Revise Sheet note #6 and #7 to be "NOT USED".
   - See future Bulletin 10A for additional information of manual projection screens in three rooms.
17. Refer to note #16 on LE1-1b and note #17 on RE2.2 in Contract Documents. For clarification, at sheet note #16 on LE1-1b, Wiremold Floor Boxes are revised to be RFB4. Also see Bulletin #10B for details of Wiremold Floor Box.
18. Add sheet note #17 for recessed Mystery Electronics Floor Box.
19. Delete (1) J-Box, (1) Quad Receptacle, (1) Data Outlet behind the AV cabinets, for Microbiology/ Microphysiology Lab– Room #129 and General Biology Lab – Room #148. (1) Duplex receptacle is to remain in both Labs. Provide credit for deletion of all above items with related conduits and wiring.
20. For General Biology Lab – Room #148 only, delete (1) Duplex Receptacle, (1) Wiremold Floor Box and (1) J-Box at Faculty Input Point. Provide credit for deletion of all above items with related conduit and wiring. Add (1) Mystery Electronic Floor Box per line item 9 in this Bulletin.
21. Added Mystery Electronics Floor Box symbol in "Signal Symbols and Descriptions" table on sheet LE1-0t. Reference SKLE-10C.1 for revision.

Architectural:

22. For clarification only, see SKA-10C.1 for location of floor boxes in General Biology Lab - Room #148.

Issued By: Architect
Requested By: Architect, Owner
Reason: AV coordination for First Floor Area "B" only. Addition AV coordination for 2nd Floor to be issued in future Bulletin.
Enclosures: SKA-10C.1, RE2.2, SKLE-10C.1 ,SKLF-10C.1, SKLE-10C.1 and LE1-1b

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☐ For Information/Clarification only
☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
☐ Requires DSA review and approval
☒ Proceed as authorized by District

tBP architecture planning interiors management
1000 Burnett Ave., Suite 140 Concord, CA 94520 p: 925.246.6419 f: 925.246.0480

## S. J. AMOROSO Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP job: 20247.00
Subj.: Received Wall Duct Wire Mold
RFI No: 318
Reference (dwg, spec.): various
Subcontractor RFI:
Reply Requested By: 6/23/06
Date: 6/16/06

INFORMATION REQUESTED:

Please note the attached Scott Electric RFI No. 28 regarding the Recessed Wall Duct Wire Mold. The part numbers called out in Bulletin 10A do not have a match in the system. Please review the attached cut sheet for a possible alternative.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE:
DATE:

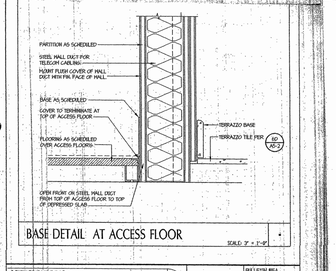
The Wiremold Walldust part number is W0109350-60 for the wall duct and C910-F30 for the flush cover pieces. The wall duct is flush in stud bay with flush access cover for easy access to the cable. At the wall base plate the conduit/mark is blocked out to the same depth as the depressed slab and the wall duct extends to the depressed slab. The cover stops at the top of the access floor.

John Lambert/ZDS - 6/16/06

See attached SKA-10A.4 of Bulletin #10A(Amended) Issued 5/1/06 for "Base Detail at Access Floor Detail".

Vanessa Ling/tBP - 6/16/06

RFI # 000
Page/1




BASE DETAIL AT ACCESS FLOOR
SCALE: 3" = 1'-0"

SCIENCE BUILDING
LOS MEDANOS COLLEGE
BULLETIN #5A
DATE: 05/30/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: SKA-5A.6

## EDWARD W. SCOTT ELECTRIC CO., INC.

435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I. # 26 R.F.I. Date 8/16/06
JOB: 2451 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONSTR.
REF DWG: BULLETIN #18
LOCATION: WEST WALL

POTENTIAL COST IMPACT: ___ COST ___ OTHER ___ NO IMPACT
___ SCHEDULE ___ LABOR ___ MATERIAL

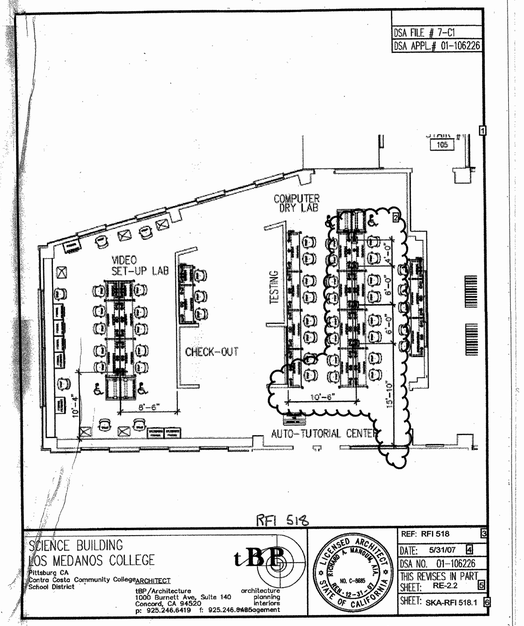
INFORMATION REQUESTED: OUR ELECTRICAL SUPPLIER HAS BEEN UNABLE TO REFERENCE THE PART NUMBERS FOR THE RECESS WALL DUCTS ADDED BY BULLETIN #18. THEY FEEL THAT THE NUMBERS MAY BE HARD TO FIND AND SEND OUT SHEETS FOR A PRODUCT THAT MAY OR MAY NOT MEET YOUR REQUIREMENTS. PLEASE CHECK THE PART NUMBERS GIVEN FOR POSSIBLE ERRORS AND/OR REVIEW THE CUT SHEETS ATTACHED AS A POSSIBLE ALTERNATIVE.

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190436




## S. J. AMOROSO Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP job: 20247.00
Subj.: Location of Data and Receptacle Outlets in the Video Set-up Lab.
RFI No: 354 (REVISED RESPONSE: 9/27/06)
Reference (dwg, spec.): E2.2
Subcontractor RFI: EWS 33
Reply Requested By: 9/29/06
Date: 9/22/06

INFORMATION REQUESTED:

Please note the attached EWS RFI No. 33 requesting a location for the Data and Receptacle Outlets shown on drawing E2.2 on the north, south and west walls of the video set up lab room 102. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE:
DATE:

TWF recommends that the power/data outlets be located in the back splash counter/cabinet area (along the north, south and west walls). Rotate outlets 90 degrees so that the outlets sit horizontally in the backsplash.

Coordinate location of outlet with the architect.

Larry Lai/TWF - 9/26/06

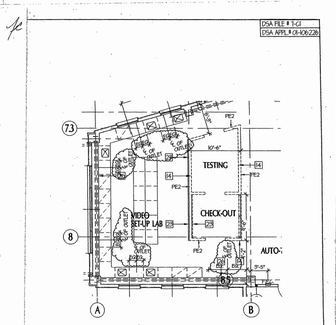
See attached sketch SKA354.1 for locations.

Vanessa Ling/tBP - 9/26/06

REVISED RESPONSE 9/27/06:
See Future Bulletin #40 for revision to quantity of outlets in this area.

Vanessa Ling/tBP - 9/27/06

RFI # 000
Page 1




## EDWARD W. SCOTT ELECTRIC CO., INC.

435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I. # 33 R.F.I. Date 9/21/06
JOB: 2451 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONSTR.
REF DWG: E2.2, A1.2, A2.4
LOCATION: 102

POTENTIAL COST IMPACT: ___ COST ___ OTHER ___ NO IMPACT
___ SCHEDULE ___ LABOR ___ MATERIAL

INFORMATION REQUESTED: WE ARE REQUESTING A LOCATION FOR THE DATA & RECEPT. OUTLETS SHOWN ON DWG. E-2.2 ON THE NORTH, SOUTH & WEST WALLS OF THE VIDEO SET-UP LAB RM. 102. DO THEY MOUNT IN THE CABINETRY. THEY WILL NOT FIT IN THE BACK SPLASH. PLEASE ADVISE.

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190436

## S. J. AMOROSO Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP job: 20247.00
Subj.: Lighting Circuits for Elevators
RFI No: 439
Reference (dwg, spec.): E-2.2 and E-2.3
Subcontractor RFI: EWS 85
Reply Requested By: 12/15/06
Date: 12/7/06

INFORMATION REQUESTED:

Please note the attached Edward Scott RFI No. 85 regarding lighting circuits being called out for on the elevator shop drawings but not on the contract drawings. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE:
DATE:

This is required by code and should be installed.

1. Install in the elevator machine room 239, one (1) junction box with locked switch, for cab lighting/power.
   - Coordinate location of junction box with elevator contractor.
   - Utilize circuit "L2A/34" in Panel "L2A", with a 20A, 1P breaker.
2. Install in the elevator machine room 160, one (1) junction box with locked switch for cab lighting/power.
   - Coordinate location of junction box with elevator contractor.
   - Utilize circuit "L1B-36" in panel "L1B", with a 20A, 1P, breaker.

Lisa / Toft Wolff Farrow
Jim Weaver / tBP Architecture

12/15/06

RFI # 000
Page 1

## EDWARD W. SCOTT ELECTRIC CO., INC.

435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I. # 65 R.F.I. Date 12/6/06
JOB: 2451 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONSTRUCTION
REF DWG: E2.2, E2.3
LOCATION: ELEV. EQUIP. ROOM

POTENTIAL COST IMPACT: ✓ COST ✓ OTHER ___ NO IMPACT
✓ SCHEDULE ✓ LABOR ✓ MATERIAL

INFORMATION REQUESTED: THE ELEVATOR SHOP DWGS. CALL FOR A 120V DEDICATED JUNCTION BOX FOR EACH CLEV. BUT THE CONTRACT DWGS. DO NOT CALL FOR THESE BOXES. PLEASE REVIEW & REPLY.

REPLY REQUIRED BY: 12/15/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190436

## S. J. AMOROSO Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP job: 20247.00
Subj.: Bulletin #39 VAV Locations/Switch Clarification
RFI No: 396
Reference (dwg, specs.): Bulletin #39
Subcontractor RFI: EWS 50
Reply Requested By: 10/27/06
Date: 10/20/06

INFORMATION REQUESTED:

Please note the attached EWS RFI No. 50 regarding the location and number of switches for the VAVs which are not shown in Bulletin No. 39. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE:
DATE:

It is TWF's recommendation that the transformer cabinets be located in mechanical room 123 and storage room 204. Final locations should be confirmed by mechanical.

It is TWF's understanding that each transformer shall be switched and that a transformer can be connected to more than one VAV box. This connection requirement shall be coordinated with mechanical.

Larry Lai/TWF - 10/20/06

Also note that I do not have anything to add to RFI 396 - Larry's response looks OK.

Dave Weston/MMS - 10/24/06

RFI # 000
Page 1

## EDWARD W. SCOTT ELECTRIC CO., INC.

435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I. # 50 R.F.I. Date 10/20/06
JOB: 2451 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONSTR.
REF DWG: BULLETIN #39
LOCATION: VAV

POTENTIAL COST IMPACT: X COST ___ OTHER ___ NO IMPACT
___ SCHEDULE ___ LABOR ___ MATERIAL

INFORMATION REQUESTED: BULLETIN #39 REQUIRES 120VAC TO EACH VAV. PLEASE PROVIDE THE LOCATION FOR THE TRANSFORMER SERVICING FIRST FLOOR CLASSROOM EXCL. SCIENCE WHICH FEEDS THE FIRST FLOOR CLASSROOMS FOR THESE TRANSFORMERS UPON RECEIPT OF LOCATION.

ALSO WILL EACH TRANSFORMER BE SWITCHED OR EACH VAV? IT IS OUR UNDERSTANDING THAT ONE TRANSFORMER WILL POWER MORE THAN ONE VAV.

REPLY REQUIRED BY: 11/3/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190436

RFI # 000
Page 1

TWF RAMS 9/18/06

## S. J. AMOROSO Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP job: 20247.00
Subj.: Disconnect Switches to VAV Boxes
RFI No: 350
Reference (dwg, specs.): Bulletin 39
Subcontractor RFI: Monterey 16
Reply Requested By: 9/25/06
Date: 9/15/06

INFORMATION REQUESTED:

Please note the attached Monterey Mechanical RFI No. 16 regarding the disconnect switches, should these be located in the VAV box or the mechanical room. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE:
DATE:

LOCATE TOGGLE SWITCHS ADJACENT TO GANGED 24 VOLT VAV TRANSFORMER WITH IDENTIFICATION LABEL MATCHED TO EACH TRANSFORMER.

Jim Barbett 9-18-06

RFI # 000
Page 1

09/15/2006 11:12 925-757-8574 MONTEREY MECH ANTIOC PAGE 01/02

MONTEREY MECHANICAL
ENGINEERING CONTRACTORS
1820 Willow Ave, Hayward, CA 94544 • Phone: (510) 537-1444 • Fax: (510) 537-8574

### REQUEST FOR INFORMATION

PROJECT: LMC Science Building
MMC RFI #: 016
SUBJECT: Disconnect Switches to VAV Boxes
DATE REQUESTED: 9/15/2006

QUESTION

| FROM: Dan Hiedmiller | TO: Mark G. Delgado-SJA | DATE: 9/15/2006 |
|---|---|---|

Reference Drawing:
Reference Specification:

RFI#39- tbp is asking for the disconnect switches to be located at the vav boxes, the vav transformers are located in a transformer panel that is located in a mechanical room? Should the switches be installed at the transformer panel or the vav boxes?

-Question asked by CommAire

RESPONSE

| FROM: | TO: | DATE: |
|---|---|---|

PLEASE RESPOND AS SOON AS POSSIBLE

cc:File

09/15/2006 11:12 925-757-8574 MONTEREY MECH ANTIOC PAGE 02/02
S J AMOROSO PAGE 02/02

#016

# Bulletin No.39

Date: 9/7/2006
To: S.J. Amoroso Construction, 390 Bridge Parkway, Redwood shores CA 94065
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
tBP JOB# 20247.00

Description: REFERENCE: sheets M1.1 to M1.4, E-3.1

Provide and install, for each 24 volt VAV transformer that is located in the VAV box controller on floors 1 and 2, a toggle type disconnect switch so that each VAV transformer can be isolated without leaving power off to the other boxes. Also each disconnect switch shall be identified by VAV box number.

For the first floor utilize circuit 'L1B-42'.

For the second floor utilize circuit 'L2A-06'.

Issued By: Architect
Requested By: Owner
Reason: Provide disconnect switch to each of the VAV box.
Enclosures: none

Distribution:

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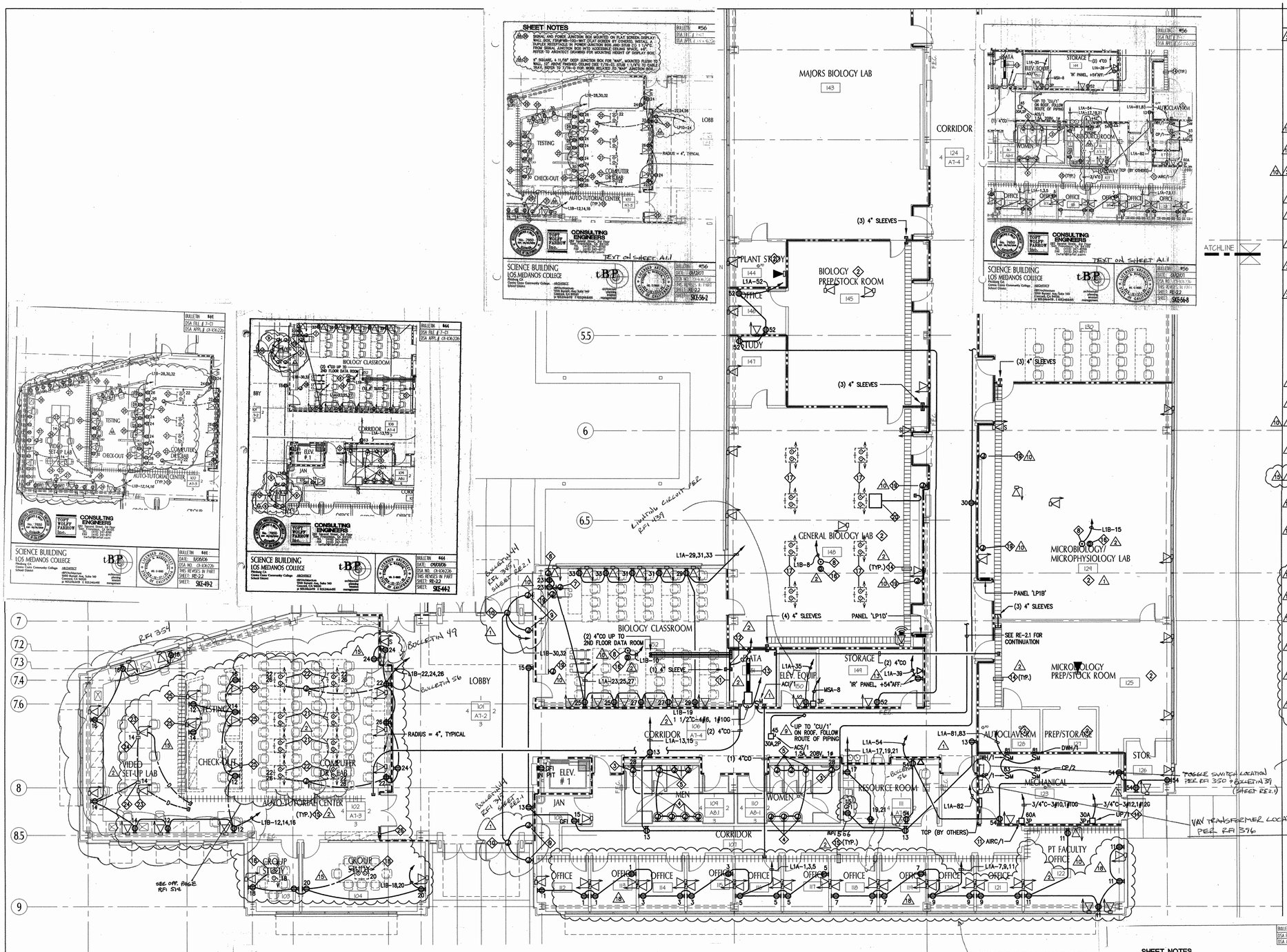
Action:
☐ For Information/Clarification only
☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
☐ Requires DSA review and approval
☐ Proceed as authorized by District

tBP/Architecture 1000 Burnett Ave, Suite 140 Concord, CA 94520 p/c 925.246.6419 fax 925.246.0480

Los Medanos College
4CD Proj.# : 1-S65-B-23-SC
Science Building



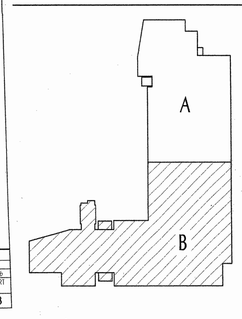

## SHEET NOTES

1. 8'Hx3/4" THICK PLYWOOD TELEPHONE BACKBOARD, ON (3) WALLS OF ROOM. REFER TO TELCOM DRAWING T3.1.
2. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
3. 120V JUNCTION BOX WITH TRANSFORMER (BY OTHERS) FOR FLUSH VALVE SENSOR.
4. 120V JUNCTION BOX FOR FAUCET MOTION SENSOR.
5. JUNCTION BOX FOR FLUSH VALVE SENSOR.
6. STUB (2)1 1/4"C FROM (2) 2-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +18" AFF.
7. STUB (1)3/4"C FROM 1-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +48" AFF.
8. CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF RECEPTACLE WITH A/V VENDOR REQUIREMENTS.
9. 4" SQ. JUNCTION BOX FOR AUTOMATIC DOOR PUSH PLATE (BY OTHERS).
10. SINGLE GANG JUNCTION BOX FOR AUTOMATIC DOOR OPERATOR. COORDINATE LOCATION OF AUTOMATIC DOOR OPERATOR WITH MANUFACTURER REQUIREMENTS.
11. DISCONNECT SWITCH MOUNTED AJACENT TO EQUIPMENT CONTROL PANEL. COORDINATE LOCATION WITH MECHANICAL.
12. 20"x4" COPPER GROUND BUS BAR. MOUNT AT +6'-6" AFF. ROUTE AND CONNECT 1 1/2"C-1#1/0G. FROM BUS BAR TO GROUND BUS OF PANEL 'L1A'. REFER TO TELCOM DRAWING T3.1.
13. 60A, 4 POLE, 300V WITH GROUND, STARLINE BUSWAY SYSTEM WITH 60A 'END' POWER FEED AND THE FOLLOWING:
    a. PLUG-IN BUSWAY STRAIGHT SECTION AT +8'-2" AFF.
    b. BUSWAY SUPPORT ASSEMBLY TO SUSPEND BUSWAY FROM BACK-TO-BACK 'U' CHANNEL OF GRID ABOVE.
    c. BUSWAY END CAP.

    COORDINATE LOCATION AND LENGTH OF STARLINE BUSWAY WITH TELCOM DRAWING T3.1.
14. DOUBLE SNAKETRAY IN CEILING SPACE, SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
15. SINGLE SNAKETRAY IN CEILING SPACE, SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPOORT OF SNAKETRAY.
16. CEILING MOUNTED DATA OUTLET FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF OUTLET WITH A/V VENDOR REQUIREMENTS. STUB (1) 3/4"C FROM OUTLET TO SNAKETRAY IN ACCESSIBLE CEILING SPACE.
17. RECESSED FLOOR BOX, WIREMOLD #RFB4. STUB (2) 1"C FROM FLOOR BOX TO SNAKETRAY IN ACCESSIBLE CEILING SPACE. RECEPTACLE/CIRCUIT IN FLOOR BOX PER 'ELECTRICAL LABORATORY DRAWINGS'.
18. RECESSED FLOOR BOX, WIREMOLD #RFB4. STUB (2) 1"C FROM FLOOR BOX TO SNAKETRAY IN ACCESSIBLE CEILING SPACE. (2) DUPLEX RECEPTACLE INSTALLED IN FLOOR BOX.
19. 1-GANG MUD RING FOR A/V SYSTEM WALL SPEAKER (BY OTHERS) MOUNT 1-GANG MUD RING AT +105" AFF. MOUNTING LOCATION SHALL BE COORDINATED WITH A/V CONTRACTOR.
20. RECESSED FLOOR BOX WITH (1) DUPLEX RECEPTACLE AND (2) DATA OUTLETS. MYSTERY ELECTRONICS #FMCA-3000 SERIES/3488-8R WITH #BB3000D6 BACKBOX (FOR AV USE). REFER TO LABORATORY ELECTRICAL DRAWINGS FOR CIRCUIT NUMBER TO DUPLEX RECEPTACLE IN MYSTERY FLOOR BOX. STUB (2) 1 1/4"C INTO ACCESSIBLE CEILING SPACE +6".
21. RECESSED FLOOR BOX, WIREMOLD #SAF-2 1/2. (DATA ONLY, SEE TELCOM DRAWINGS).
22. RECESSED FLOOR BOX, WIREMOLD #SAF-2 1/2 WITH (2) DUPLEX RECEPTACLES, AND DATA OUTLETS (SEE TELCOM DRAWINGS).
23. DATA MONUMENT (PER TELCOM DRAWINGS) MOUNTED ON WORK SURFACE. ROUTE 1"C FROM DATA MONUMENT INTO FLOOR SLAB, VA WORK SURFACE CHASE, AND STUB CONDUIT INTO RAISED FLOOR AREA.
24. POWER MONUMENT, WATER SAVER #ES00PB-WS WITH DOUBLE DUPLEX RECEPTACLE AND COVERPLATE. POWER MONUMENT MOUNTED ON WORK SURFACE ADJACENT TO DATA MONUMENT. (SEE SHEET NOTE #23).
25. SEE BULLETIN 49 DUPLEX RECEPTACLES (FURNISHED BY OTHERS), LEAVE 6' PIGTAIL AT EACH RECEPTACLE LOCATION. FINAL CONNECTION TO RECEPTACLE BY ELECTRICAL CONTRACTOR.
26. SEE RFI 318 RECESSED WALL DUCT, WIREMOLD #WDCW350 WITH REMOVAL COVERPLATE. WHERE WALL DUCT RISES ABOVE ROOM CEILING GRID, INSTALL ONE ACCESS COVER PLATE #WDOG-ACPS (FOR ACCESS OF TELCOM CABLES FROM FLOOR TO SNAKETRAY IN CEILING SPACE). AT FLOOR LEVEL INSTALL ONE SWEEP TEE (FOR ACCESS OF TELCOM CABLES FROM RAISED FLOOR AREA TO CEILING SPACE).

| | | |
|---|---|---|
| 18 | 3/22/06 | BULLETIN #18 |
| 15 | 3/20/06 | BULLETIN #15 |
| 13 | 3/07/06 | BULLETIN #13 |

## PLAN




## Bulletin No.15A Amended

Date: May 1, 2006

To: S.J. Amoroso Construction
950 Bridge Parkway
Redwood shores CA 94065

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 03-106226; File # 7-C1
tBP File 20247.00

Description:
REFERENCE: Bulletin #15A, SKE-15.2:

Text of Note 28 is to be deleted and replaced with the following text:
"Backbox and conduit in demountable wall panels provided by manufacturer of demountable wall. Electrical Contractor shall provide and install conduit and wiring to top of the demountable wall above the ceiling and shall provide and install wiring, receptacles and coverplates in the demountable wall."

Issued By: Architect
Requested By: Architect
Reason: Clarification to powerdata requirement at de-mountable walls
Enclosures: none

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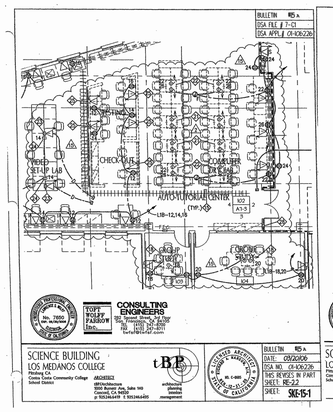
Action:
- ☒ For Information/Clarification only
- ☐ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
- ☐ Requires DSA review and approval
- ☐ Proceed as authorized by District



## SHEET NOTES

- 18 RECESSED FLOOR BOX, WIREMOLD #RFB4. STUB (2) 1"C FROM FLOOR BOX TO SNAKETRAY IN ACCESSIBLE CEILING SPACE. (2) DUPLEX RECEPTACLE INSTALLED IN FLOOR BOX.
- 19 1-GANG MUD RING FOR A/V SYSTEM WALL SPEAKER (BY OTHERS) MOUNT 1-GANG MUD RING AT +105" AFF. MOUNTING LOCATION SHALL BE COORDINATED WITH A/V CONTRACTOR.
- 20 RECESSED FLOOR BOX WITH (1) DUPLEX RECEPTACLE AND (2) DATA OUTLETS. MYSTERY ELECTRONICS #FMCA-3000 SERIES/3488-8R WITH #BB3000D6 BACKBOX (FOR AV USE). REFER TO LABORATORY ELECTRICAL DRAWINGS FOR CIRCUIT NUMBER TO DUPLEX RECEPTACLE IN MYSTERY FLOOR BOX. STUB (2) 1 1/4"C INTO ACCESSIBLE CEILING SPACE +6".
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- 24 POWER MONUMENT, WATER SAVER #ES00PB-WS WITH DOUBLE DUPLEX RECEPTACLE AND COVERPLATE. POWER MONUMENT MOUNTED ON WORK SURFACE ADJACENT TO DATA MONUMENT. (SEE SHEET NOTE #23).
- 25 DUPLEX RECEPTACLES (FURNISHED BY OTHERS), LEAVE 6' PIGTAIL AT EACH RECEPTACLE LOCATION. FINAL CONNECTION TO RECEPTACLE BY ELECTRICAL CONTRACTOR.
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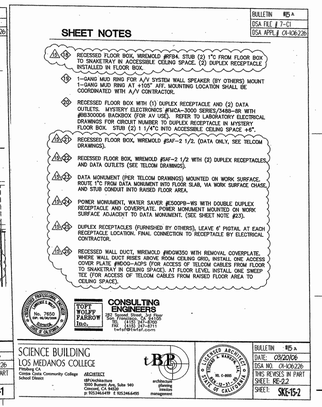

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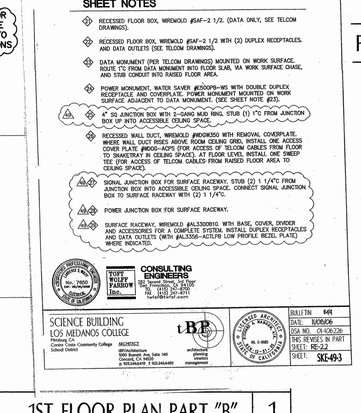

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- 24 POWER MONUMENT, WATER SAVER #ES00PB-WS WITH DOUBLE DUPLEX RECEPTACLE AND COVERPLATE. POWER MONUMENT MOUNTED ON WORK SURFACE ADJACENT TO DATA MONUMENT. (SEE SHEET NOTE #23).
- 4" SQ JUNCTION BOX WITH 2-GANG MUD RING. STUB (1) 1"C FROM JUNCTION BOX UP INTO ACCESSIBLE CEILING SPACE.
- 26 RECESSED WALL DUCT, WIREMOLD #WDCW350 WITH REMOVAL COVERPLATE. WHERE WALL DUCT RISES ABOVE ROOM CEILING GRID, INSTALL ONE ACCESS COVER PLATE #WDOG-ACPS (FOR ACCESS OF TELCOM CABLES FROM FLOOR TO SNAKETRAY IN CEILING SPACE). AT FLOOR LEVEL INSTALL ONE SWEEP TEE (FOR ACCESS OF TELCOM CABLES FROM RAISED FLOOR AREA TO CEILING SPACE).
- SIGNAL JUNCTION BOX FOR SURFACE RACEWAY. STUB (2) 1 1/4"C FROM JUNCTION BOX INTO ACCESSIBLE CEILING SPACE. CONNECT SIGNAL JUNCTION BOX TO SURFACE RACEWAY WITH (2) 1 1/4"C.
- POWER JUNCTION BOX FOR SURFACE RACEWAY.
- SURFACE RACEWAY, WIREMOLD #AL3300810. WITH BASE, COVER, DIVIDER AND ACCESSORIES FOR A COMPLETE SYSTEM. INSTALL DUPLEX RECEPTACLES AND DATA OUTLETS (WITH #AL3356-ACTLPB LOW PROFILE BEZEL PLATE) WHERE INDICATED.

1ST FLOOR PLAN PART "B" 1
SCALE: 1/8"=1'-0"

TWF #03058.00


tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p. 925.246.6419 f. 925.246.6495

TOFT WOLFF FARROW Inc. CONSULTING ENGINEERS
925 Second Street, Suite 100
Davis, CA 95616
TEL (415) 247-8700
FAX (415) 247-8701
twfsf@twfsf.com


DIV. OF ARCHITECT - STATE OF CALIFORNIA
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APPL - 01/05/05
K. RS SS
DATE

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address
city, state, zip
ph.
fx
agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number: 20247.00
file name: 1s-FLR-A
drawn by: LLAI checked by: LSH
date: NOVEMBER 15, 2004

| | | |
|---|---|---|
| 1 | 3/18/05 | ADDENDUM #1 |
| 2 | 4/19/05 | ADDENDUM #2 |
| 9 | 2/10/06 | BULLETIN #9 |
| 10 | | BULLETIN #10 D B |

drawing title:
1st FLOOR PLAN
PART "B" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.
RE-2.2

SEE ALSO E-2.2 FOR AS-BUILT POSITIONS

# Bulletin No.09

tBP Architecture Interiors Planning Management

**Date:** February 24, 2006

**To:** S.J.Amoroso Construction
390 Bridge Parkway
Redwood shores CA 94065

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
IBP P/N 20247.00

**Description:** REFERENCE: Submittal#33, Submittal #38:

1. Due to the basis-of-design chiller being discontinued, and the submittal of the York Millennium Chiller per Submittal #33, the following electrical requirements are revised:

Electrical service revised to 'C1'

2. Due to the basis-of-design ducted split-system air conditioners being discontinued and the submittal of the units per Submittal #38, the following electrical requirements are revised:

Electrical service revised to 'CU1', 'ACS1', 'CU2', and 'ACS2'. See attached sketches SK8-09.1 to SK8-09.5 for details.

**Issued By:** Architect

**Requested By:** Design team

**Reason:** Change in electrical requirements per discontinued basis-of-design equipment

**Enclosures:** SK8-09.1 to SK8-09.8

**Distribution:**

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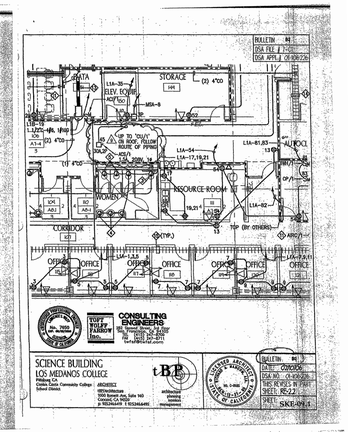
| 1 copy | Dave Western | Aluworth Associates |

**Action:**
- ☐ For Information/Clarification only
- ☒ Provide Price/Cost Proposal. (Refer to this Bulletin No. when responding)
- ☐ Requires DSA review and approval
- ☐ Proceed as authorized by District

tBPArchitecture, 1000 Burnett Ave. Suite 140 , Concord, CA 94520




## S. J. AMOROSO
Request For Information/Clarification

**DSA FILE NO.7-C1**
**DSA APPL. No. 01-106226**

To: tBPArchitecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-245-0495

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Wall Mounted Data vs. Floor Boxes in Room 102
RFI No: **158**
Subcontractor RFI: EWS 9

Reference (dwg, spec.) E-2.2, T1-2

Reply Requested By: 3/2/06

INFORMATION REQUESTED: Date: 2/23/06

Please note the attached Scott Electric RFI No. 9 regarding Drawing E-2.2 depicting 5 wall mounted data outlets in the testing checkout section of Room 102. Drawings T1-2 shows 3 floor boxes with #18 and #19 located in the walk way between the chairs. Which is correct. Please advise.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 3-3-06

'13' floor boxes as shown on T1-2 are correct.
Provide credit for (5) wall-mounted data outlets shown on E2.2 not required.
Future Bulletin based on Acoges floor submittal will show exact location of floor boxes with floor grid.

Attachments:

By: C. Chiang/IBP

TRANSMITTAL RECORD:

| FROM | TO | | DATE |
|---|---|---|---|
| S.J.AMOROSO | IBP / ARCHITECTURE | | 2/23/06 |
| IBP / ARCHITECTURE | ENGINEER/CONSULTANT | SWF/SSA | 2.24.06 |
| ENGINEER/CONSULTANT | IBP / ARCHITECTURE | | 3.2.06 |
| IBP / ARCHITECTURE | S.J. AMOROSO | | 3.3.06 |
| S.J. AMOROSO | ORIGINATOR | | |

RFI # 000
Page 1

## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I.# 9 R.F.I. Date 2/21/06
JOB: 8251 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONSTR.
REF.DWG: E-2.2 T1-2
LOCATION: RM 102 TESTING CHECK-OUT

POTENTIAL COST IMPACT: COST / OTHER / NO IMPACT
SCHEDULE: LABOR / MATERIAL

INFORMATION REQUESTED: DWG. E-2.2 DEPICTS 5 WALL MTD. DATA OUTLETS IN THE TESTING SUBSECTION OF RM. 102. DWG. T1-2 SHOWS 3 FLOOR BOXES WITH #18 & #19 LOCATED IN THE WALK WAY BETWEEN THE CHAIRS. WHICH IS CORRECT?

REPLY REQUIRED BY: 2/27/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

## SHEET NOTES

1. 8'Hx3/4" THICK PLYWOOD TELEPHONE BACKBOARD, ON (3) WALLS OF ROOM.
2. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
3. 120V JUNCTION BOX WITH TRANSFORMER (BY OTHERS) FOR FLUSH VALVE SENSOR.
4. 120V JUNCTION BOX FOR FAUCET MOTION SENSOR.
5. JUNCTION BOX FOR FLUSH VALVE SENSOR.
6. STUB (2)1 1/4"C FROM 4-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
7. STUB (1)3/4"C FROM 1-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
8. DUPLEX RECEPTACLE FOR CEILING MOUNTED PROJECTOR. RECEPTACLE FOR PROJECTOR INSTALLED IN CEILING SPACE. COORDINATE EXACT LOCATION OF PROJECTOR WITH ARCHITECT "RCP" DRAWINGS.

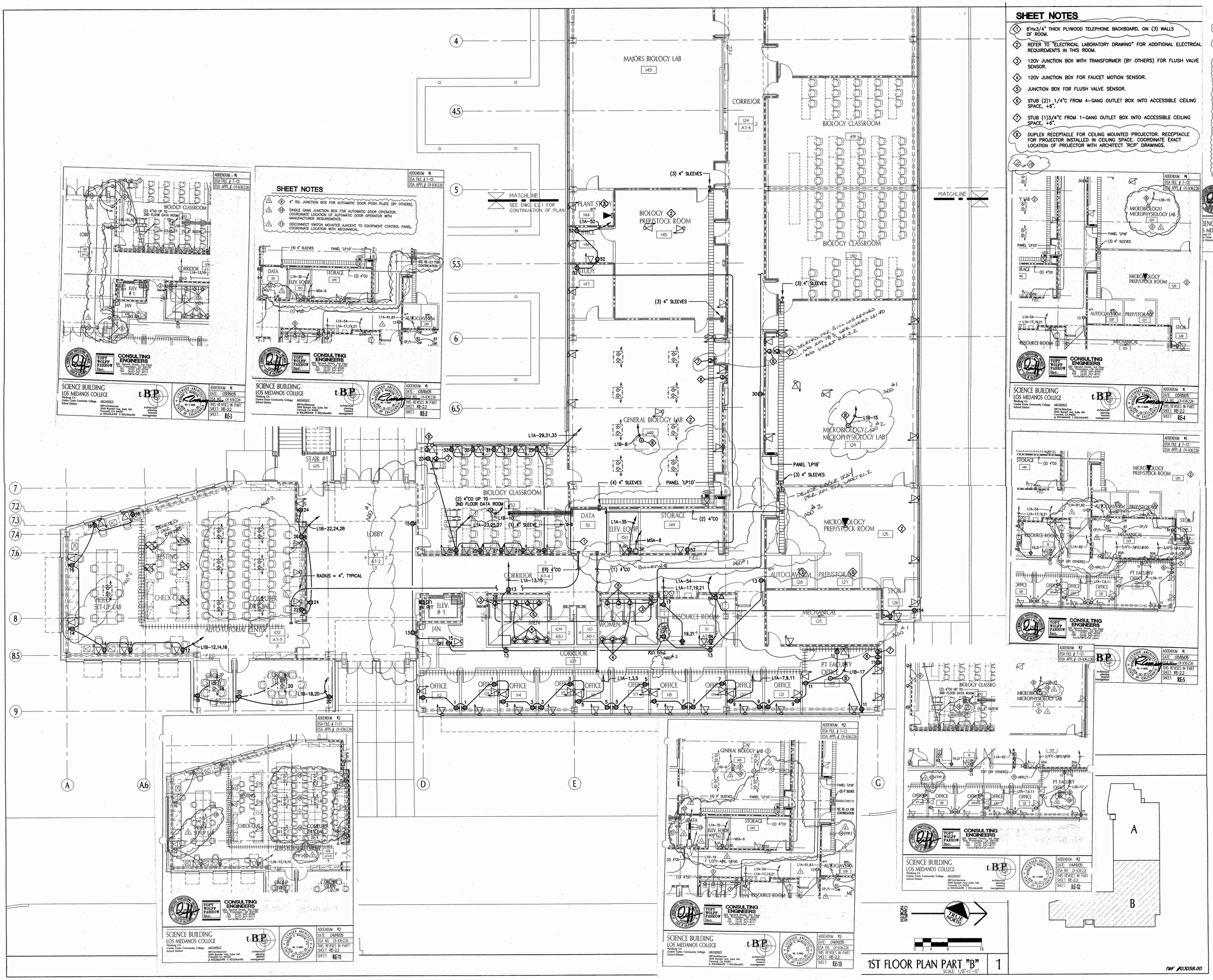
## SHEET NOTES

1. 4" SQ. JUNCTION BOX FOR AUTOMATIC DOOR PUSH PLATE (BY OTHERS).
2. SINGLE GANG JUNCTION BOX FOR AUTOMATIC DOOR OPERATOR. COORDINATE LOCATION OF AUTOMATIC DOOR OPERATOR WITH MANUFACTURER REQUIREMENTS.
3. DISCONNECT SWITCH MOUNTED AJACENT TO EQUIPMENT CONTROL PANEL. COORDINATE LOCATION WITH MECHANICAL.

## SHEET NOTES

1. 8'Hx3/4" THICK PLYWOOD TELEPHONE BACKBOARD, ON (3) WALLS OF ROOM. REFER TO TELCOM DRAWING T3.1.
2. DUPLEX RECEPTACLE FOR CEILING MOUNTED PROJECTOR. COORDINATE EXACT LOCATION OF RECEPTACLE WITH PROJECTOR REQUIREMENTS.
3. 20"x4" COPPER GROUND BUS BAR. MOUNT AT +8'-8" AFF. ROUTE AND CONNECT 1 1/2"C-1#1/0G. FROM BUS BAR TO GROUND BUS OF PANEL "L1A". REFER TO TELCOM DRAWING T3.1.
4. 60A, 4 POLE, 300V WITH GROUND, STARLINE BUSWAY SYSTEM WITH 60A "END" POWER FEED AND THE FOLLOWING:
   a. PLUG-IN BUSWAY STRAIGHT SECTION AT +8'-2" AFF.
   b. BUSWAY SUPPORT ASSEMBLY TO SUSPEND BUSWAY FROM BACK-TO-BACK "U" CHANNEL OF GRID ABOVE.
   c. BUSWAY END CAP.

   COORDINATE LOCATION AND LENGTH OF STARLINE BUSWAY WITH TELCOM DRAWING T3.1.
5. DOUBLE SNAKETRAY IN CEILING SPACE. SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
6. SINGLE SNAKETRAY IN CEILING SPACE. SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
7. CEILING MOUNTED DATA OUTLET FOR PROJECTOR. COORDINATE LOCATION OF OUTLET WITH PROJECTOR REQUIREMENTS. STUB (1) (1) 3/4"C FROM OUTLET TO SNAKETRAY IN ACCESSIBLE CEILING SPACE.
8. RECESSED FLOOR BOX, WIREMOLD #RFB4. STUB (2) 1"C FROM FLOOR BOX TO SNAKETRAY IN ACCESSIBLE CEILING SPACE. RECEPTACLE/CIRCUIT IN FLOOR BOX PER "ELECTRICAL LABORATORY DRAWINGS".
9. RECESSED FLOOR BOX, WIREMOLD #RFB4. STUB (2) 1"C FROM FLOOR BOX TO SNAKETRAY IN ACCESSIBLE CEILING SPACE. (1) DUPLEX RECEPTACLE INSTALLED IN FLOOR BOX.




ADDENDUM #1
DSA FILE # 7-C1
DSA APPL # 01-106226

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DATE: 08/08/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-22
SHEET: RE-3

ADDENDUM #1
DSA FILE # 7-C1
DSA APPL # 01-106226

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DATE: 08/08/05
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SHEET: RE-22
SHEET: RE-2

ADDENDUM #1
DSA FILE # 7-C1
DSA APPL # 01-106226

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DATE: 08/08/05
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SHEET: RE-22
SHEET: RE-4

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

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DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-22
SHEET: RE-5

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

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DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-22
SHEET: RE-11

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

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DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-22
SHEET: RE-12

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

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DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-22
SHEET: RE-13

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DRAWING WITH THE DIV. OF STATE ARCHITECT OFFICE OF REGULATION SERVICES
APP. - 01/05/05
DATE 1-11-05

consultant

name
address
city, state, zip
ph:
fax:
agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number: 20241.00
file name: 1s-FLR-A
drawn by: LLAI checked by: LSW
date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|

drawing title:
1st FLOOR PLAN
PART "B" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no: E-2.2

SEE SHEET RE-22

TWF #03058.00

# Bulletin No. 36

tBP Architecture Planning Interiors Management

**Date:** June 8, 2006

**To:** S.J. Amoroso Construction
390 Bridge Parkway
Redwood shores CA 94065

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
tBP P/N 20247.00

**Description:**

REFERENCE: Drawing A0-2, Spec Section 07840 – Firestopping, Bulletin #10D, Submittal #70 – Under Floor Boxes.

1-hour firestopping floor/joint assemblies apply to all floor boxes in or penetrating 1-hour rated Second Floor Slab including the followings.

1. For 1-hour rated floor/joint assemblies at poke thru and Wiremold RFB4 floor boxes, refer to engineering judgments from Hilti 65470a and 65471a for details. Refer to Bulletin #10D for locations of poke thru and Wiremold RFB4 boxes.

   Per spec section 07840, no addition cost to owner for firestopping at poke thru and Wiremold RFB4 boxes in this line item shall apply.

2. For 1-hour rated assemblies at Mystery Electronics Floor Boxes, refer to engineering judgments from Hilti 65472a for details. Refer to Bulletin #10D for locations of (4) total Mystery Electronic Floor Boxes.

Refer to A0-2 in Contract Document for detail "Area Required for 1-hour Occupancy Separation" for 1-hour rated Second Floor slab area. Contractor to coordinate where 1-hour rated floor/joint assemblies at poke thru and floor boxes are required. Provide submittal to firestopping assemblies listed above.

cc: EW Scott
YZ

**Issued By:** Architect

**Requested By:** Architect, Owner

**Reason:** AV coordination

**Enclosures:** Hilti Engineering Judgments Firestop details drawings no. 65470a, 65471a and 65472a.

**Distribution:**

| Copies: | Name: | Organization: |
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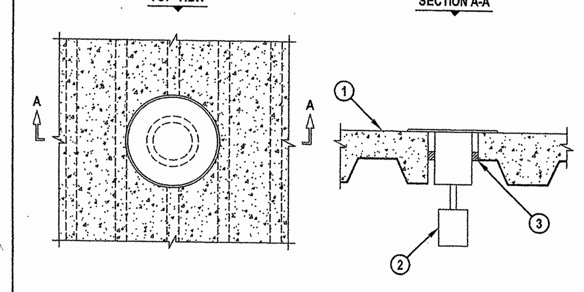
**Action:**
- ☒ For Information/Clarification only
- ☒ Provide Price/Credit Proposal to line item #2 only (Refer to this Bulletin No. when responding)
- ☐ Requires DSA review and approval
- ☐ Proceed as authorized by District

GB

## ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : LMC SCIENCE BUILDING
ARCHITECT : TBP ARCHITECTURE
F-RATING = 1-HR.




1. CONCRETE (MINIMUM 3-1/4" THICK) OVER METAL DECK ASSEMBLY (1-HR. FIRE-RATING).
2. MAXIMUM 4 NOMINAL DIAMETER POKE THRU DEVICE SECURELY ATTACHED TO CONCRETE FLOOR
3. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INSTALLED WITHIN PLANE OF FLOOR.

NOTE : ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 1/2".

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TEST
(REFERENCE : UL/cUL SYSTEM NO. C-AJ-1184)

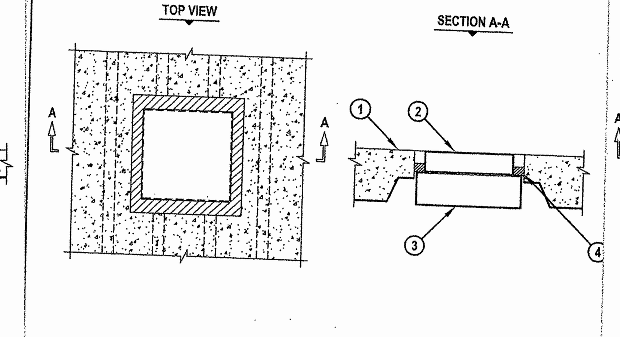
HILTI — Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (918) 252-6000 | Designed by Jonathan W. Matthews, CFPS | Sheet 1 of 1 | Scale 7/64" = 1" | Date June 2, 2006 | Drawing 654

Saving Lives through Innovation and Education

GB

## ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : LMC SCIENCE BUILDING
ARCHITECT : TBP ARCHITECTURE
F-RATING = 1-HR. (SEE NOTE NO. 2 BELOW)




1. CONCRETE (MINIMUM 3-1/4" THICK) OVER METAL DECK ASSEMBLY (1-HR. FIRE-RATING).
2. STEEL FLOOR BOX (MAXIMUM SIZE: 10-1/2" x 10-3/4" x 2-1/2" DEEP). (MYSTERY ELECTRONIC
3. STEEL BACK BOX (MAXIMUM SIZE: 12-1/2" x 12" x 4").
4. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INSTALLED WITHIN PLANE OF FLOOR.

NOTES : 1. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 1/2".
2. FIRE-RATING IS ONLY AS GOOD AS PERFORMANCE OF STEEL FLOOR BOX UNDER FIRE CONDITIONS.

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TESTE
(REFERENCE : UL/cUL SYSTEM NO. C-AJ-1184)

HILTI — Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (918) 252-6000 | Designed by Jonathan W. Matthews, CFPS | Sheet 1 of 1 | Scale 7/64" = 1" | Date June 2, 2006 | Drawing 6547

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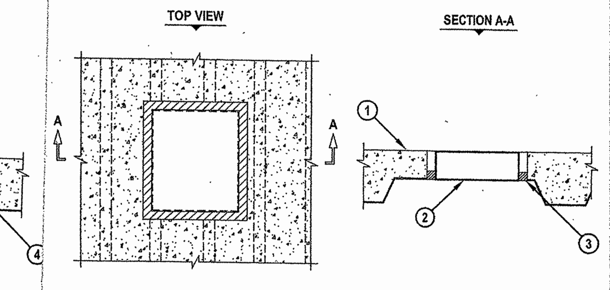
B

## ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : LMC SCIENCE BUILDING
ARCHITECT : TBP ARCHITECTURE
F-RATING = 1-HR. (SEE NOTE NO. 2 BELOW)




1. CONCRETE (MINIMUM 3-1/4" THICK) OVER METAL DECK ASSEMBLY (1-HR. FIRE-RATING).
2. STEEL FLOOR BOX (MAXIMUM SIZE: 10" x 12" x 3-7/16" DEEP). (RFB4)
3. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INSTALLED WITHIN PLANE OF FLOOR.

NOTES : 1. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 1/2".
2. FIRE-RATING IS ONLY AS GOOD AS PERFORMANCE OF STEEL FLOOR BOX UNDER FIRE CONDITIONS.

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TEST
(REFERENCE : UL/cUL SYSTEM NO. C-AJ-1184)

HILTI — Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (918) 252-6000 | Designed by Jonathan W. Matthews, CFPS | Sheet 1 of 1 | Scale 7/64" = 1" | Date June 2, 2006 | Drawing 6547

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## S. J. AMOROSO
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District

**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495

tBP p/n: 20247.00

**Subj.:** Bulletin 10D Box Location Clarification

**RFI No:** 248

**Reference (dwg, spec.) : Bulletin 10D**

Subcontractor RFI: EWS 21

**Reply Requested By: 6/21/06**

**INFORMATION REQUESTED:** **Date:** 6/14/06

Please note the attaché Edward W. Scott RFI regarding the RFB4 Box location next to the Mystery Electric Box in Room 245 which has been deleted per EWS's conversation with TPB. Please confirm.

**SUGGESTED SOLUTION:**

**Cost Impact:** ☐ **Schedule Impact:** ☐ days **By:** Mark Delgado

**RESPONSE:** **DATE:** 6/14/06

TWF recommends that the subject 'RFB4' box be deleted, due to not being required.

Larry Lai/TWF

Provide credit to the (1) deleted RFB4 box, conduit and all the related service to this box.

Vanessa Ling

**Attachments:**

**By:**

**TRANSMITTAL RECORD:**

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 6/14/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | 6/14/06 |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | 6/14/06 |
| tBP / ARCHITECTURE | S.J. AMOROSO | 6/14/06 |
| S.J. AMOROSO | ORIGINATOR | |

**RFI # 000**
**Page 1**

## S. J. AMOROSO
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

**Project:** LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District

**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495

tBP p/n: 20247.00

**Subj.:** Location of VFD's for EF 1 and EF 2

**RFI No:** 523

**Reference (dwg, spec.): M3.1, E2-5, RE2-3**

Subcontractor RFI:

**Reply Requested By: 5/11/07**

**INFORMATION REQUESTED:** **Date:** 5/4/07

Per response to RFI 266, the VFD's for EF 1 and EF 2 are to be located on the roof adjacent to the exhaust fans. However, this would require an expensive NEMA 3R enclosure. A more cost efficient solution would be to locate these VFD's on the west wall of electrical room 239. The much more modest costs associated with this would for some conduit/wiring and disconnect switches added at the two exhaust fans. We understand from consultation with the mechanical engineer (who in turn consulted the electrical engineer) that this is an agreeable solution. Please confirm.

**SUGGESTED SOLUTION:**

**Cost Impact:** ☐ **Schedule Impact:** ☐ days **By:** Justin Warren

**RESPONSE:** **DATE:**

No exception taken to mount EF-1 & EF-2 VFD's in electrical room 239 at location 1 that provides proper clearances.

EF's still require local disconnect swithces (NEMA 3R enclosures) at the unit.

All costs and credits should be reviewed with owners representative at next site meeting if CPE has not yet been issued.

Jim Weaver / tBP Architecture
D. Weston / Ainsworth Associates
L. Lai / TWF

5/7/07

**RFI # 000**
**Page 1**

| | |
|---|---|
| BULLETIN | #40 |
| DSA FILE # | 7-C1 |
| DSA APPL # | 01-106226 |

SEE SHEET RE2.1 FOR TEXT OF BULLETIN

## SHEET NOTES

1. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
2. RECESSED FLOOR BOX, WIREMOLD #RFB4 WITH LPB OPEN SYSTEMS BEZEL FOR TELCOM JACKS. STUB (2)1"C FROM FLOOR INTO CEILING SPACE OF THE FIRST FLOOR. RECEPTACLE/CIRCUIT IN FLOOR BOX PER 'ELECTRICAL LABORATORY DRAWING.
3. CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF RECEPTACLE WITH A/V VENDOR REQUIREMENTS.
4. JUNCTION BOX FOR MOTORIZED WINDOW SHADE. LETTER ADJACENT TO OUTLET BOX DESIGNATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
5. WINDOW SHADE CONTROL BOX FOR MOTORIZED WINDOW SHADES. LETTER INDICATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
6. CONTROL SWITCH FOR MOTORIZED SHADES 'P-Q'. (40) CONTRACTOR SHALL ROUGH-IN OUTLET BOX FOR SWITCH (2-GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
7. STUB (2) 1 1/4"C FROM (2) 2-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +18" AFF.
8. STUB (1) 3/4"C FROM 1-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +48" AFF.
9. ROUTE HOMERUN TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
10. (40) CONNECT CONTROL SWITCH 'P-Q' TO MOTORIZED WINDOW SHADE CONTROL BOX 'P-Q' WITH A (6) CONDUCTOR LOW VOLTAGE FLAT 26GA. MODULAR CABLE.

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| BULLETIN | #40 |
| DATE: | 10/12/06 |
| DSA NO. | 01-106226 |
| THIS REVISES IN PART SHEET: | RE-23 |
| SHEET: | SKE-40-5 |

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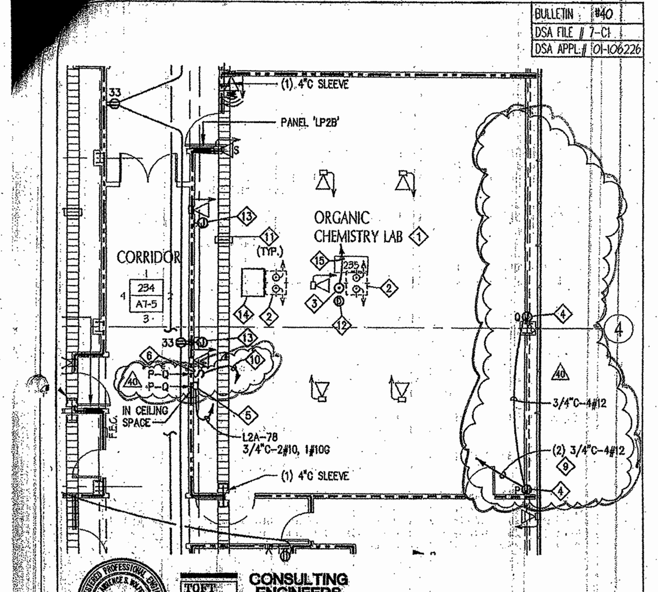
| BULLETIN | #40 |
| DSA FILE # | 7-C1 |
| DSA APPL # | 01-106226 |

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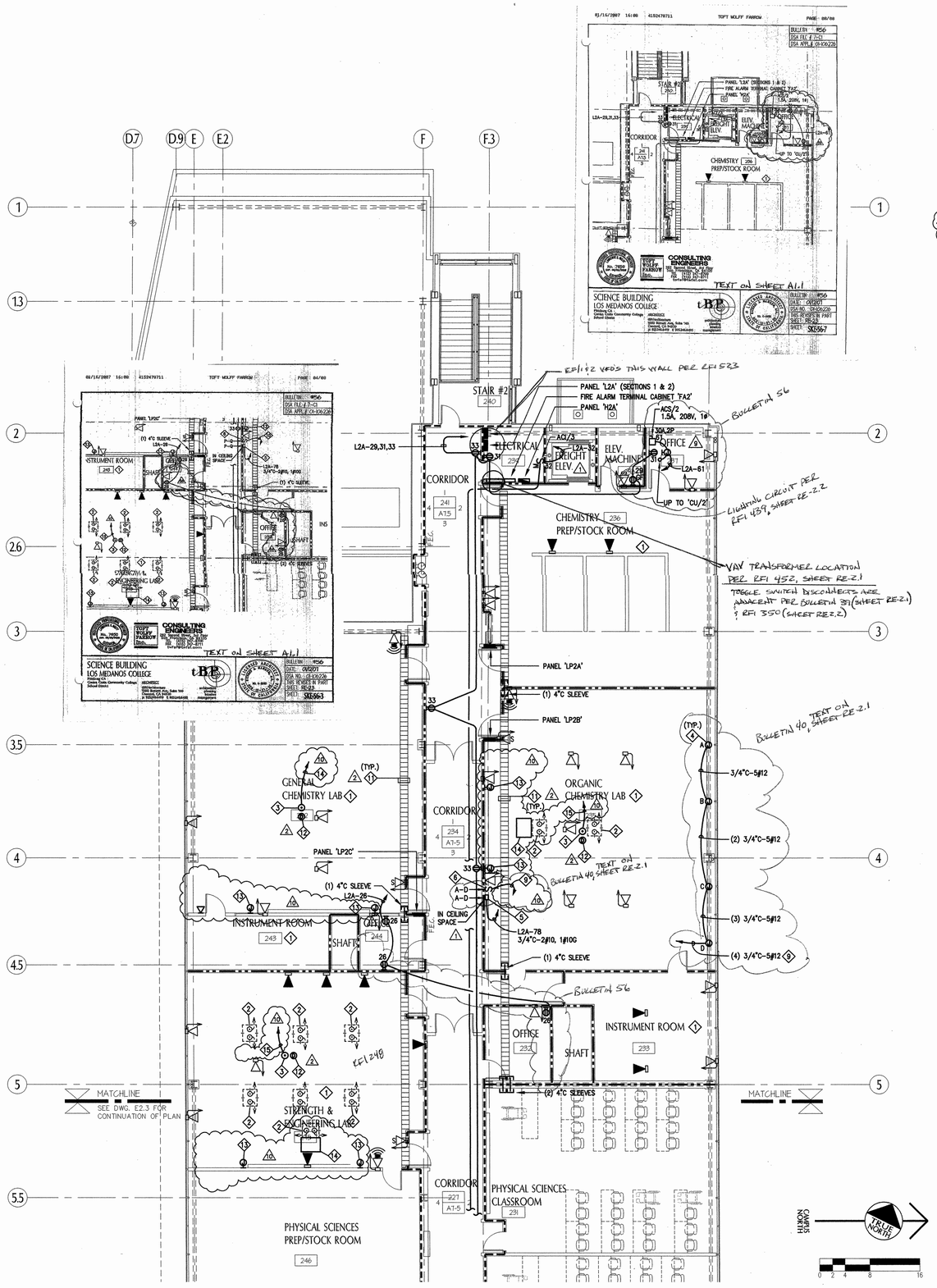
| BULLETIN | #40 |
| DATE: | 10/12/06 |
| DSA NO. | 01-106226 |
| THIS REVISES IN PART SHEET: | RE-23 |
| SHEET: | SKE-40-4 |




## SHEET NOTES

1. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
2. (10, 2) RECESSED FLOOR BOX, WIREMOLD #RFB4 WITH LPB OPEN SYSTEMS BEZEL FOR TELCOM JACKS. STUB (2)1"C FROM FLOOR INTO CEILING SPACE OF THE FIRST FLOOR. RECEPTACLE/CIRCUIT IN FLOOR BOX PER 'ELECTRICAL LABORATORY DRAWING.
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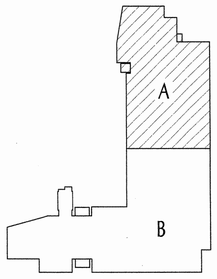
6. CONTROL SWITCH FOR MOTORIZED SHADES 'A–D'. CONTRACTOR SHALL ROUGH–IN OUTLET BOX FOR SWITCH (2–GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
7. (10, 2) STUB (2) 1 1/4"C FROM (2) 2–GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +18" AFF.
8. (10, 2) STUB (1) 3/4"C FROM 1–GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6". OUTLET BOX MOUNTED AT +48" AFF.
9. ROUTE HOMERUN TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
10. CONNECT CONTROL SWITCH 'A–D' TO MOTORIZED WINDOW SHADE CONTROL BOX 'A–D'.
11. (2) DOUBLE SNAKETRAY IN CEILING SPACE. SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
12. (10, 2) CEILING MOUNTED DATA OUTLET FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF OUTLET WITH A/V VENDOR REQUIREMENTS. STUB (1) 3/4"C FROM OUTLET TO SNAKETRAY IN ACCESSIBLE CEILING SPACE.
13. (10) FOR ALL A/V SYSTEM WALL SPEAKER (SPEAKER BY OTHERS) LOCATIONS IN 'NON–RATED' WALLS, INSTALL A 1–GANG MUD RING FOR WALL SPEAKERS BELOW THE ROOM CEILING AND A 1–GANG OUTLET BOX ABOVE THE ROOM CEILING. IN LOCATION OF 'RATED' WALLS INSTALL A 1–GANG OUTLET BOX FOR A/V SYSTEM WALL SPEAKER. STUB (1) 3/4"C FROM OUTLET BOX INTO ROOM CEILING SPACE +6". TERMINATE CONDUIT WITH BUSHING. MOUNTING HEIGHT OF 1–GANG MUD RING AND 1–GANG OUTLET BOX IS 105" AFF. MOUNTING LOCATIONS SHALL BE COORDINATED WITH A/V CONTRACTOR.
14. (10, 2) RECESSED FLOOR BOX WITH (1) DUPLEX RECEPTACLE AND (2) DATA OUTLETS. MYSTERY ELECTRONICS #FMCA–3000 SERIES/3488–BR WITH #BB3000D6. BACKBOX (FOR AV USE). REFER TO LABORATORY 'ELECTRICAL' DRAWINGS FOR CIRCUIT UTILIZED BY BACKBOX. STUB (2) 1 1/4"C INTO ACCESSIBLE CEILING SPACE +6" (SEE BULLETIN 32)
15. (10, 2) REFER TO 'ELECTRICAL LABORATORY DRAWINGS' FOR CIRCUIT UTILIZED BY PROJECTOR DOUBLE DUPLEX RECEPTACLE.

ALL OUTLET LOCATIONS PER RFI 393, SHEET RE-2.1
SEE SHEET 1 OF 2.1 FROM KI

10 04/03/06 BULLETIN #10

## KEY PLAN




2ND FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"
1

TWF #03058.00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FAX (415) 241-8711
www.tbwinc.com

TOFT WOLFF FARROW Inc.


VERIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATORY AFFAIRS
APP. - 01/18/05
AC. RS SS
DATE

name
address
city, state, zip
ph: fc

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

COMMON

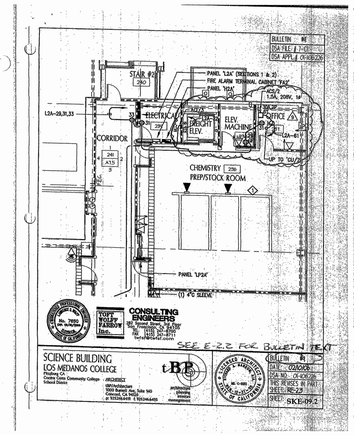
tBP project number : 20241.00
file name: 1s-FLR-A
drawn by: LLAI checked by: LSH
date: NOVEMBER 15, 2004

| | | |
|---|---|---|
| 1 | 3/18/05 | ADDENDUM #1 |
| 2 | 4/19/05 | ADDENDUM #2 |
| 9 | 2/10/06 | BULLETIN #9 |
| 10 | | BULLETIN #10 D.B. |

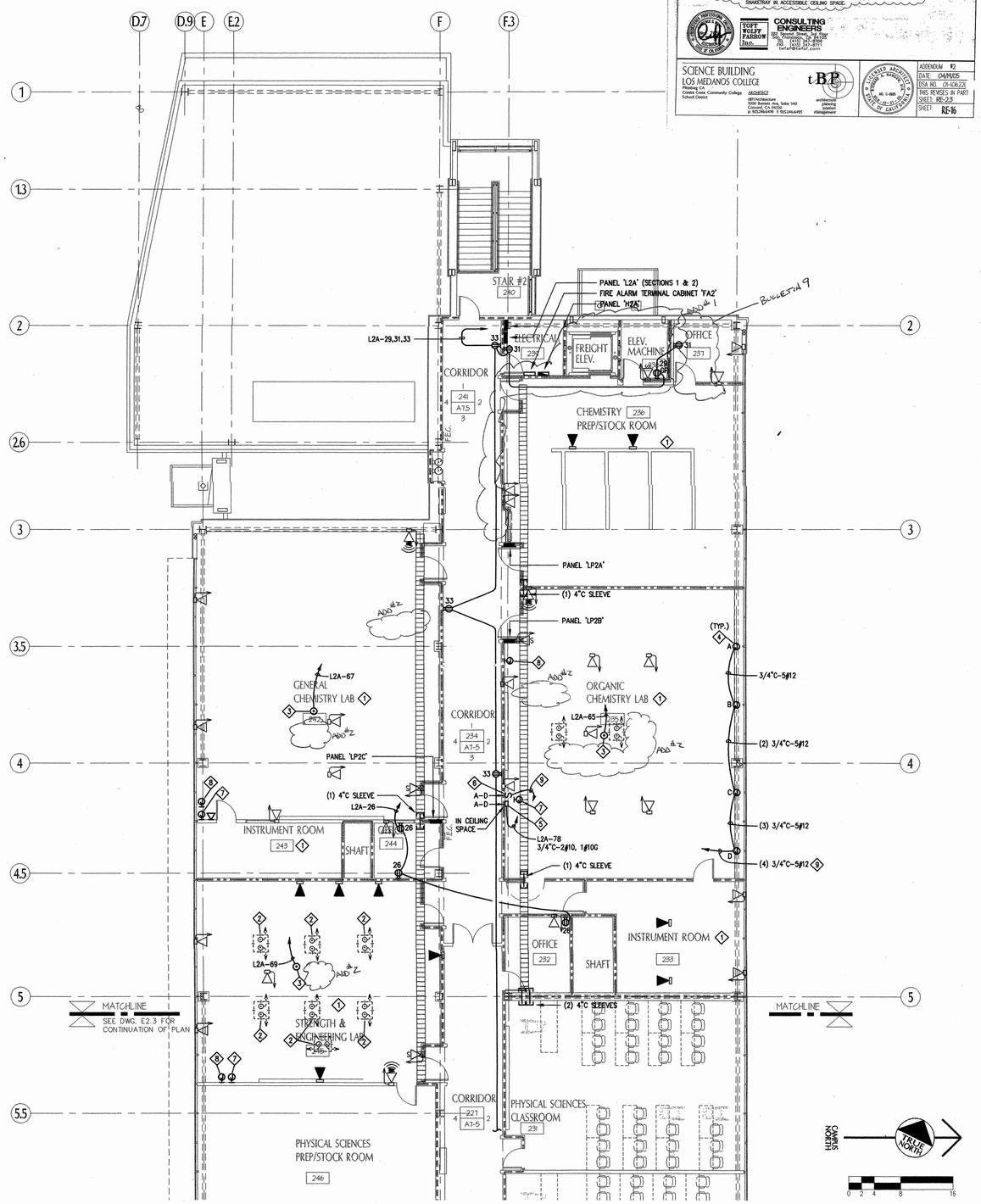
drawing title:
2nd FLOOR PLAN
PART "A" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
RE-2.3

SEE ALSO E-2.3 FOR AS-BUILT RISERS




Los Medanos College
4CD Proj. #: L-565-B-23-SC
**Science Building**




2ND FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"

1

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

## SHEET NOTES

1. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
2. RECESSED FLOOR BOX, WIREMOLD #RFB4-SS WITH INTERNAL BRACKET, #RFB-2AB-SS. STUB (2)1"C FROM FLOOR INTO CEILING SPACE OF THE FIRST FLOOR. RECEPTACLE/CIRCUIT IN FLOOR BOX PER 'ELECTRICAL LABORATORY DRAWING.
3. DUPLEX RECEPTACLE FOR CEILING MOUNTED PROJECTOR. COORDINATE EXACT LOCATION OF RECEPTACLE WITH PROJECTOR REQUIREMENTS.
4. JUNCTION BOX FOR MOTORIZED WINDOW SHADE. LETTER ADJACENT TO OUTLET BOX DESIGNATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
5. WINDOW SHADE CONTROL BOX FOR MOTORIZED WINDOW SHADES. LETTER INDICATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
6. CONTROL SWITCH FOR MOTORIZED SHADES 'A-D'. CONTRACTOR SHALL ROUGH-IN OUTLET BOX FOR SWITCH (2-GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
7. STUB (2) 1 1/4"C FROM 4-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
8. STUB (1) 3/4"C FROM 1-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
9. ROUTE HOMERUN TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
10. CONNECT CONTROL SWITCH 'A-D' TO MOTORIZED WINDOW SHADE CONTROL BOX 'A-D'.
11. DOUBLE SNAKETRAY IN CEILING SPACE. SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
12. CEILING MOUNTED DATA OUTLET FOR PROJECTOR. COORDINATE LOCATION OF OUTLET WITH PROJECTOR REQUIREMENTS. STUB (1)3/4"C FROM OUTLET TO SNAKETRAY IN ACCESSIBLE CEILING SPACE.

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SCIENCE BUILDING
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tBP architecture planning interiors management

ADDENDUM #2
DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.3
SHEET: RE-16

ADDENDUM #1
DSA FILE # 7-C1
DSA APPL # 01-106226

## SHEET NOTES

1. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
2. RECESSED FLOOR BOX, WIREMOLD #RFB4-SS WITH INTERNAL BRACKET, #RFB-2AB-SS. STUB (2)1"C FROM FLOOR INTO CEILING SPACE OF THE FIRST FLOOR.
3. DUPLEX RECEPTACLE FOR CEILING MOUNTED PROJECTOR. RECEPTACLE FOR PROJECTOR INSTALLED IN CEILING SPACE. COORDINATE EXACT LOCATION OF PROJECTOR WITH ARCHITECT 'RCP' DRAWINGS.
4. JUNCTION BOX FOR MOTORIZED WINDOW SHADE. LETTER ADJACENT TO OUTLET BOX DESIGNATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
5. WINDOW SHADE CONTROL BOX FOR MOTORIZED WINDOW SHADES. LETTER INDICATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
6. CONTROL SWITCH FOR MOTORIZED SHADES 'A-D'. CONTRACTOR SHALL ROUGH-IN OUTLET BOX FOR SWITCH (2-GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
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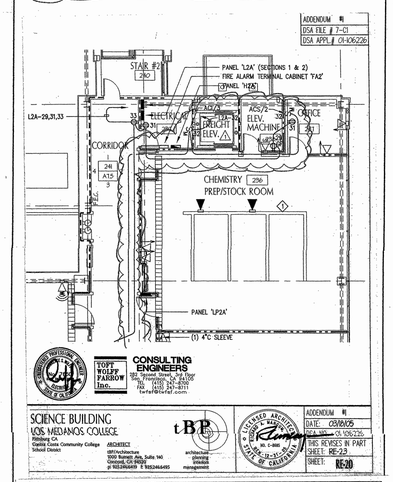
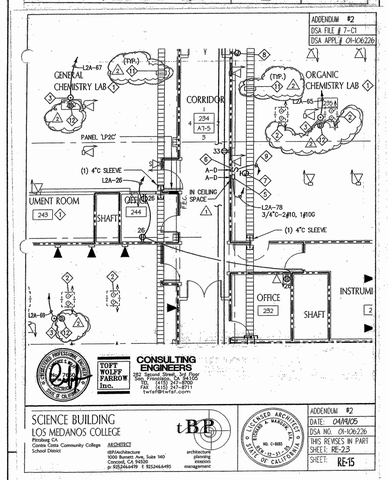
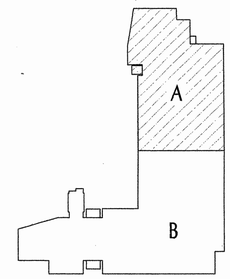
8. STUB (1) 3/4"C FROM 1-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
9. ROUTE HOMERUN TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
10. CONNECT CONTROL SWITCH 'A-D' TO MOTORIZED WINDOW SHADE CONTROL BOX 'A-D'.
11. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PR PARTITION SHALL BE SEPARATED BY HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.
12.




TWF #030058.00

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architect

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consultant

DIVISION OF THE STATE ARCHITECT
APPL - 01-106226
DATE 1-11-05

name
address
city, state, zip
ph:
fax:

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

file name: 1s-FLR-A

drawn by: LLAI checked by: LSM

date: NOVEMBER 15, 2004

| Rev. | date | description |
|---|---|---|

drawing title:

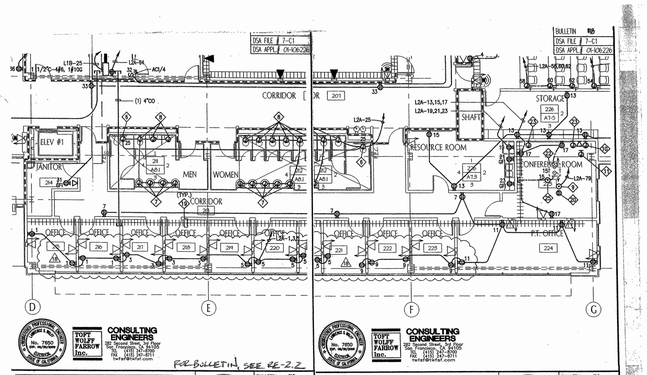
2nd FLOOR PLAN
PART "A" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00

drawing no.:

E-2.3

SEE SHEET RE-2.3



FOR BULLETIN SEE RE-2.2

SCIENCE BUILDING
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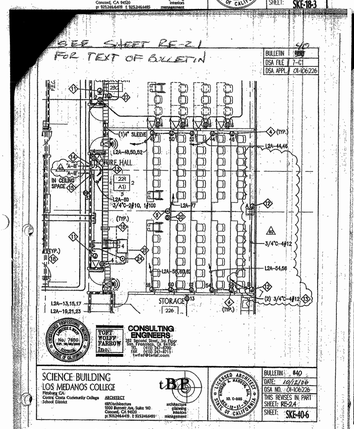
BULLETIN #55
DATE: 03/21/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE-B-3

BULLETIN #55
DATE: 03/21/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE-B-4

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BULLETIN #40
DATE: 10/12/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE-A06

## SHEET NOTES

BULLETIN #40
DSA FILE # 7-C1
DSA APPL # 01-106226

1. 8'Wx3/4" THICK PLYWOOD TELEPHONE BACKBOARD, ON (3) WALLS OF ROOM. REFER TO TELCOM DRAWING T3.2.
2. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
3. (2) 4" CONDUITS DOWN TO FIRST FLOOR DATA ROOM.
4. FLOOR MOUNTED JUNCTION BOX FOR "POWER UP MODULES" AT BASE OF CLASS ROOM TABLES.
5. STUB 1"C FROM DATA OUTLET INTO SECOND FLOOR CEILING SPACE.
6. 120V JUNCTION BOX WITH TRANSFORMER (BY OTHERS) FOR FLUSH VALVE SENSOR.
7. 120V JUNCTION BOX FOR FAUCET MOTION SENSOR.
8. 120V JUNCTION BOX FOR FLUSH VALVE SENSOR.
9. CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF RECEPTACLE WITH A/V VENDOR REQUIREMENTS.
10. STUB (1) 1 1/4"C FROM (2) 2-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE. +8". OUTLET BOX MOUNTED AT +18" AFF.
11. STUB (1) 3/4"C FROM 1-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE. +8". OUTLET BOX MOUNTED AT +48" AFF.
12. JUNCTION BOX FOR MOTORIZED WINDOW SHADE. LETTER ADJACENT TO OUTLET BOX DESIGNATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
13. ROUTE HOMERUN TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
14. COUNTER SWITCH FOR MOTORIZED SHADES. CONTRACTOR SHALL PROVIDE AND INSTALL 120V POWER TO SWITCH. CONTROL SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
15. CONNECT CONTROL SWITCH 1/4-20 TO MOTORIZED WINDOW SHADE CONTROL BOX. 2-0" WITH A (6) CONDUCTOR LOW VOLTAGE FLAT DSGA MODULAR CABLE.

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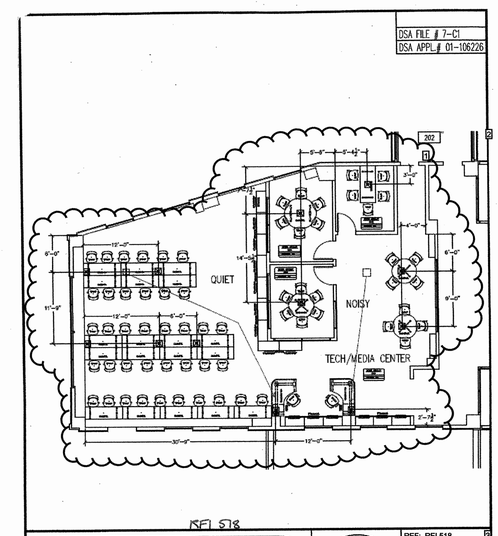
BULLETIN #40
DATE: 10/12/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE-A07




RFI 518

SCIENCE BUILDING
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Contra Costa Community College District
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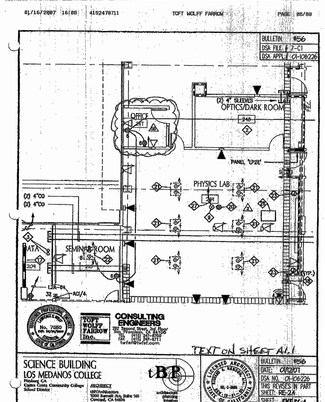
p: 925.246.6419 f: 925.246.0485

REF: RFI 518
DATE: 5/31/07
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKA-RFI 518.2

01/16/2007 16:00 4152478711 TOFT WOLFF FARROW PAGE: 05/09




TEXT ON SHEET A1.1

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg CA
Contra Costa Community College District
ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
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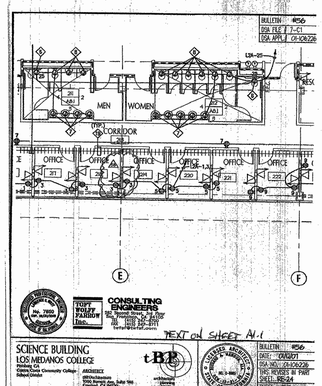
BULLETIN #56
DATE: 08/08/07
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE564

01/16/2007 16:00 4152478711 TOFT WOLFF FARROW PAGE: 06/09




TEXT ON SHEET A1.1

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg CA
Contra Costa Community College District
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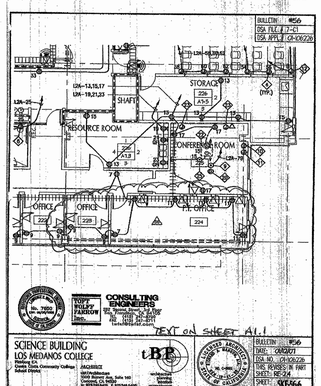
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p 925.246.6419 f 925.246.0485

BULLETIN #56
DATE: 08/08/07
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE565

01/16/2007 16:00 4152478711 TOFT WOLFF FARROW PAGE: 07/09




TEXT ON SHEET A1.1

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg CA
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1000 Burnett Ave, Suite 140
Concord, CA 94520
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BULLETIN #56
DATE: 08/08/07
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE566

**S. J. AMOROSO**
**Request For Information/Clarification**

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-0485

tBP job: 20247.00

Subj.: Motorized Window Shades in Room 249

RFI No: 444

Reference (dwg, spec.): Window Shade Shop Drawings

Submittal/Shop Dwg. Reference: EWG 67

Reply Requested By: 12/21/06

Date: 12/14/06

INFORMATION REQUESTED:

Please note the attached Edward Scott Electric RFI No. 67 regarding the motorized window shade for room 249 which is shown in the Window Shade Shop drawings but not on the electrical plans. Please advise.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ Days By: Mark Delgado

RESPONSE: DATE: 12/26/06

See attached markup sketch for motorized window shades in Room 249.

Larry Lai

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
450 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2537

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I. # 67 R.F.I. Date 12/14/06
JOB: 0427 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONSTRUCTION
REF: DWG: WINDOW SHADE Dwg.60.
LOCATION: ROOMS 248 AND 249

POTENTIAL COST IMPACT
✓ COST ✓ SCHEDULE
OTHER LABOR
NO IMPACT MATERIAL

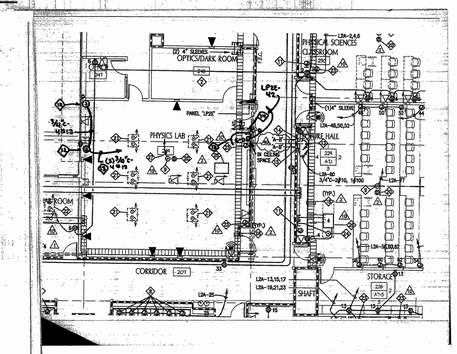
INFORMATION REQUESTED: THE WINDOW SHADE SHOP DWGS CALL FOR MOTORIZED WINDOW SHADES IN THE PHYSIC LAB AND THE ELECTRICAL DWGS. HAVE NO PROVISIONS FOR THESE SHADES. PLEASE REVIEW AND RESPOND.

REPLY REQUIRED BY: 12/21/06 SIGNED: [illegible]
NOTE: IF NO REPLY IS RECEIVED BY IS BY THE ABOVE NOTED DATE A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

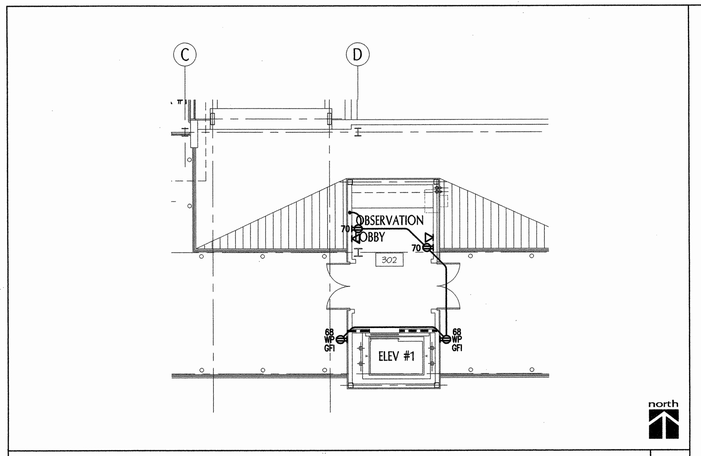
RESPONSE:

DATED: SIGNED:

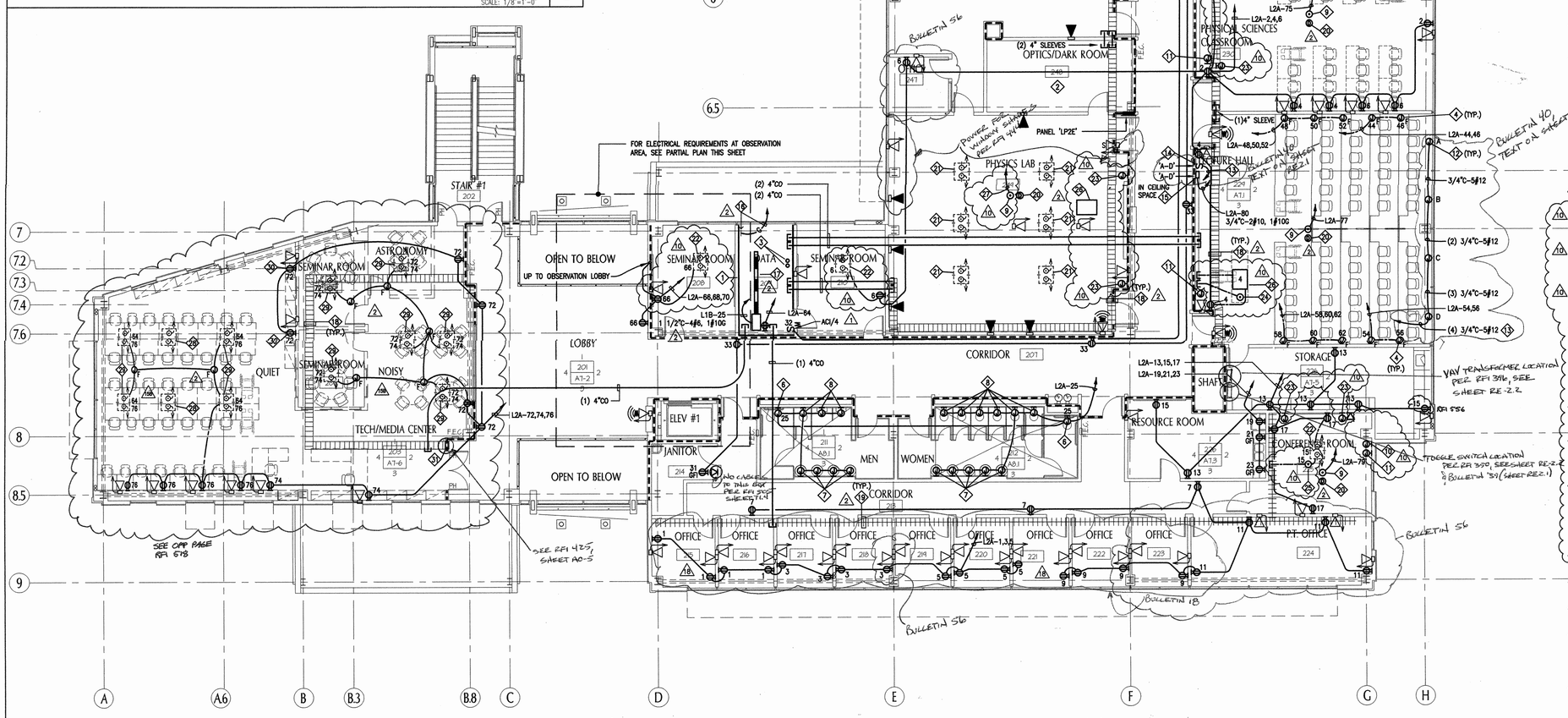
INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190616




Los Medanos College
4CD Proj.# : L-S65-B-23-SC
**Science Building**




PARTIAL ROOF PLAN 2
SCALE: 1/8"=1'-0"




2ND FLOOR PLAN PART "B" 1
SCALE: 1/8"=1'-0"

## SHEET NOTES

1. 8'H x 3/4" THICK PLYWOOD TELEPHONE BACKBOARD, ON (3) WALLS OF ROOM. REFER TO TELCOM DRAWING T3.2.
2. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
3. (2) 4" CONDUITS DOWN TO FIRST FLOOR DATA ROOM.
4. FLOOR MOUNTED JUNCTION BOX FOR 'POWER UP MODULES' AT BASE OF CLASS ROOM TABLES.
5. STUB 1"C FROM DATA OUTLET INTO SECOND FLOOR CEILING SPACE.
6. 120V JUNCTION BOX WITH TRANSFORMER (BY OTHERS) FOR FLUSH VALVE SENSOR.
7. 120V JUNCTION BOX FOR FAUCET MOTION SENSOR.
8. 120V JUNCTION BOX FOR FLUSH VALVE SENSOR.
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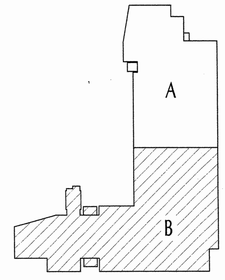
13. ROUTE HOMERUN TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
14. CONTROL SWITCH FOR MOTORIZED SHADES 'A-D'. CONTRACTOR SHALL ROUGH-IN OUTLET BOX FOR SWITCH (2-GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
15. WINDOW SHADE CONTROL BOX FOR MOTORIZED WINDOW SHADES. LETTER INDICATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
16. 20"x4" COPPER GROUND BUS BAR. MOUNT AT +6'-6" AFF. ROUTE AND CONNECT 1 1/2"C-1#1/0G. FROM BUS BAR TO GROUND BUS OF PANEL 'L2A'. REFER TO TELCOM DRAWING T3.2.
17. 60A, 4 POLE, 300V WITH GROUND, STARLINE BUSWAY SYSTEM WITH 60A 'END' POWER FEED AND THE FOLLOWING:
    a. PLUG-IN BUSWAY STRAIGHT SECTION AT +8'-2" AFF.
    b. BUSWAY SUPPORT ASSEMBLY TO SUSPEND BUSWAY FROM BACK-TO-BACK 'U' CHANNEL OF GRID ABOVE.
    c. BUSWAY END CAP.

    COORDINATE LOCATION AND LENGTH OF STARLINE BUSWAY WITH TELCOM DRAWING T3.2.
18. DOUBLE SNAKETRAY IN CEILING SPACE, SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
19. SINGLE SNAKETRAY IN CEILING SPACE, SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPOORT OF SNAKETRAY.
20. CEILING MOUNTED DATA OUTLET FOR PROJECTOR AND A/V EQUIPMENT. COORDINATE LOCATION OF OUTLET WITH A/V VENDOR REQUIREMENTS. STUB (1) 3/4"C FROM OUTLET TO SNAKETRAY IN ACCESSIBLE CEILING SPACE.
21. RECESSED FLOOR BOX, WIREMOLD #RFB4 WITH LPB OPEN SYSTEMS BEZEL FOR TELCOM JACKS. STUB (2)1"C FROM FLOOR BOX INTO CEILING SPACE OF THE FIRST FLOOR. RECEPTACLE/CIRCUIT IN FLOOR BOX PER 'ELECTRICAL LABORATORY DRAWINGS.
22. RECESSED FLOOR BOX, WIREMOLD #RFB4 WITH LPB OPEN SYSTEMS BEZEL FOR TELCOM JACKS. STUB (2)1"C FROM FLOOR BOX INTO CEILING OF THE FIRST FLOOR. (1) DUPLEX RECEPTACLE INSTALLED IN FLOOR BOX.
23. FOR ALL A/V SYSTEM WALL SPEAKER (SPEAKER BY OTHERS) LOCATIONS IN 'NON-RATED' WALLS, INSTALL A 1-GANG MUD RING FOR WALL SPEAKERS BELOW THE ROOM CEILING AND A 1-GANG OUTLET BOX ABOVE THE ROOM CEILING. IN LOCATION OF 'RATED' WALLS INSTALL A 1-GANG OUTLET BOX FOR A/V SYSTEM WALL SPEAKER. STUB (1) 3/4"C FROM OUTLET BOX INTO ROOM CEILING SPACE +6". TERMINATE CONDUIT WITH BUSHING. MOUNTING HEIGHT OF 1-GANG MUD RING AND 1-GANG OUTLET BOX IS 105" AFF. MOUNTING LOCATIONS SHALL BE COORDINATED WITH A/V CONTRACTOR.
24. RECESSED POKE-THRU; WIREMOLD #AMD8 STYLE, WITH INSERTS FOR PASS-SEYMOUR OPEN SYSTEM BEZELS. STUB (1) 1 1/4"C FROM POKE-THRU INTO SECOND FLOOR ACCESSABLE CEILING SPACE NEAR SNAKETRAY.
25. RECESSED POKE-THRU; WIREMOLD #AV3 STYLE, WITH (1) DUPLEX RECEPTACLE AND BEZELS FOR EXTRONS "MAAP" MODULES FOR AV USE. STUB (1) 1 1/4"C FROM POKE-THRU INTO SECOND FLOOR ACCESSIBLE CEILING SPACE NEAR SNAKETRAY.
26. RECESSED FLOOR BOX; STUB (2) 1 1/4"C FROM FLOOR BOX INTO SECOND FLOOR ACCESSIBLE CEILING SPACE TO +6". (1) DUPLEX RECEPTACLE WITH (2) DATA OUTLETS INSTALLED IN FLOOR BOX. MYSTERY ELECTRONICS #FMCA 3000 SERIES/3488-8R WITH #BB30000B6 BACKBOX (FOR AV USE). FOR AREAS WHERE 'MYSTERY' ELECTRONICS BACKBOX IS INSTALLED IN LABORATORY ROOMS, REFER TO LABORATORY 'ELECTRICAL' DRAWINGS FOR CIRCUIT UTILIZED BY BACKBOX. (SEE BULLETIN 56, SHEET RE2.3)
27. REFER TO 'ELECTRICAL LABORATORY DRAWINGS' FOR CIRCUIT UTILIZED BY PROJECTOR DOUBLE DUPLEX RECEPTACLE.
28. RECESSED FLOOR BOX, WIREMOLD #SAF-2 1/2 (DATA ONLY, SEE TELCOM DRAWINGS).
29. RECESSED FLOOR BOX, WIREMOLD #SAF-2 1/2 WITH (2) DUPLEX RECEPTACLES AND DATA OUTLETS (SEE TELCOM DRAWINGS).
30. BACKBOX AND CONDUIT IN DEMOUNTABLE WALL PANELS PROVIDED BY MANUFACTURER OF DEMOUNTABLE WALL. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND WIRING TO TOP OF THE DEMOUNTABLE WALL ABOVE THE CEILING AND SHALL PROVIDE AND INSTALL WIRING, RECEPTACLES AND COVERPLATES IN THE DEMOUNTABLE WALL.
31. SEE RFI 518, SHEET RE-2.2
    RECESSED WALL DUCT, WIREMOLD #WDOW350 WITH REMOVAL COVERPLATE. WHERE WALL DUCT RISES ABOVE ROOM CEILING GRID, INSTALL ONE ACCESS COVERPLATE #WDOG-ACPS (FOR ACCESS OF TELCOM CABLES FROM FLOOR TO SNAKETRAY IN CEILING SPACE). AT FLOOR LEVEL INSTALL ONE SWEEP TEE (FOR ACCESS OF TELCOM CABLES FROM RAISED FLOOR TO CEILING SPACE.

15B 04/10/06 BULLETIN #15B
10 04/03/06 BULLETIN #10

ALL OUTLET LOCATIONS PER RFI 353, SHEET RE-2.1
SEE SHEET 2 OF 2 E1 FROM K.E.

KEY PLAN




## Bulletin No.15B

Date: May 4, 2006

To: S.J. Amoroso Construction
390 Bridge Parkway
Redwood shores CA 94065

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106236; File # 7-C1
tBP TFN 20247.00

Description: REFERENCE: E2.4, T1-4.

Revisions to Electrical and Telecom for coordination of power and data requirements for furniture at second floor area 'B' raised floor:

Refer to SKE-15B.1 and SKE-15B.2 for revisions to Electrical devices at raised floor area as follows:

1. Add one floor box in room 203 between gridlines B.3 and B.8/7.4 and 8.
2. Specification for floor boxes in this area (except for (2) tagged with note 3B) is revised per note 2D.
3. Specification for (2) floor boxes in "Quiet" area is revised per note 2B.
4. Add power/data receptacles at two locations at demountable walls (west walls of room 205 and 206). Power and data at demountable walls is clarified per note 3G.
5. Refer to note 3I for steel wall duct to be installed in fire-rated partition adjacent to door 206. Details for this wall are similar to those issued per Bulletin #15A (see SKA-15A.4 and 15A.5).

Contractor to advise if location of wall duct will affect fire-rating of wall adjacent to door 206.

Refer to SKT-15B.1 and SKT-15B.2 for revisions to Telecom devices at raised floor area as follows:

6. Add one floor box in room 203 (refer to note 1 above).
7. Add data receptacles at two locations at demountable walls (refer to note 4 above). Details for these wall plates are similar to those issued in Bulletin #15A (see SKT-15A.6).

Issued By: Architect
Requested By: Architect, Owner

tBP/Architecture. 1000 Burnett Ave. Suite 140 . Concord, CA. 94520. ph: 925.246.6419. fax: 925.246.6495

BULLETIN # 00
LOS MEDANOS COLLEGE SCIENCE BUILDING

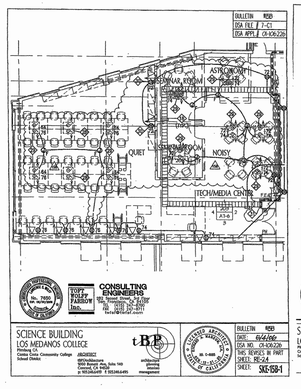
Reason: Coordination of power and data requirements for furniture at second floor area 'B'

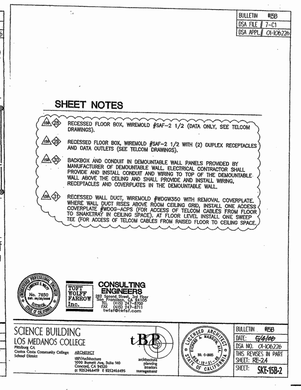
Enclosures: SKE-15B.1, SKE-15B.2, SKT-15B.1, SKT-15B.2

Distribution:

| Copies: | Name: | Organization: |
|---|---|---|
| 1 copy | Mark Delgado | S. J. Amoroso |
| 1 copy | Cam Perrotta | CCCCD/District |
| 1 copy | Bob Hacke | Inspector of Record |
| 1 copy | Tom Beckett | tBP/Architecture |
| 1 copy | File 20247.007.4 | tBP/Architecture |

Action:
- ☐ For Information/Clarification only
- ☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
- ☐ Requires DSA review and approval
- ☐ Proceed as authorized by District






tBP architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

CONSULTING ENGINEERS
285 Second Street, 4th Floor
San Francisco, CA 94105
Voice (415) 247-8711
FAX (415) 247-8711
tofrsf@tofrsf.com
TOFT WOLFF FARROW Inc.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APP. - 01-106236
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DATE ___

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address
city, state, zip
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fax

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

tBP project number: 20247.00
file name: 2n-FLR-A
drawn by: LLM checked by: LSM
date: NOVEMBER 15, 2004

| | | |
|---|---|---|
| 1 | 3/18/05 | ADDENDUM #1 |
| 2 | 4/19/05 | ADDENDUM #2 |
| 10 | 03/06/06 | BULLETIN #10 D, B |
| 18 | 03/22/06 | BULLETIN #18 |

drawing title:
2nd FLOOR PLAN
PART "B" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
RE-2.4

SEE ALSO E-2.4 FOR AS-BUILT REVISIONS

TWF #03058.00

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBPOArchitecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6485

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

tBP pln: 20247.00

Subj.: Wall Mount Boxes Vs. Floor Mount In Rm. 229
References (dwg, spec.) : Bulletin 10D

RFI No: **249**
Subcontractor RFI: EWS 22

Reply Requested By: 6/21/06

**INFORMATION REQUESTED:** Date: 5/14/06

Please note the attachd Edward W. Scott RFI No. 22 regarding dimenstons for the Floor Boxes in room 229. Also due to possible damage EWS would like to wall mount these boxes in lieu of floor mounting. Please advise.

**SUGGESTED SOLUTION:**

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

**RESPONSE:** DATE:
TBP recommends that the subject junction boxes be wall mounted in lieu of floor mounted.
Due to junction boxes being wall mounted, there should be a credit for not core drilling the floor.

Larry Lel
TBP/ 6.15.06

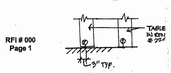
**Attachments:**

By:

**TRANSMITTAL RECORD:**

| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 5/14/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | TBP - 6/14/06, Dovetail - 6/15/06 |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | TBP - 6/15/06, Dovetail - 6/20/06 |
| tBP / ARCHITECTURE | S.J. AMOROSO | 6/20/06 |
| S.J. AMOROSO | ORIGINATOR | |

After coordinate with District furniture consultant, location of the wall mounted junction boxes are to be 3" to corner of the table as shown as follows, typical.




Vanessa Ling/tBP
6/20/06

RFI # 000
Page 1

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBPOArchitecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6485

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

tBP pln: 20247.00

Subj.: Wall Mount Boxes Vs. Floor Mount In Rm. 229
References (dwg, spec.) : Bulletin 10D

RFI No: **249** (REVISED RESPONSE 6/21/06)
Subcontractor RFI: EWS 22

Reply Requested By: 6/21/06

**INFORMATION REQUESTED:** Date: 5/14/06

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Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

**RESPONSE:** DATE:
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Larry Lel
TBP/ 6.15.06

**Attachments:**

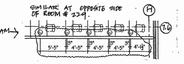
By:

**TRANSMITTAL RECORD:**

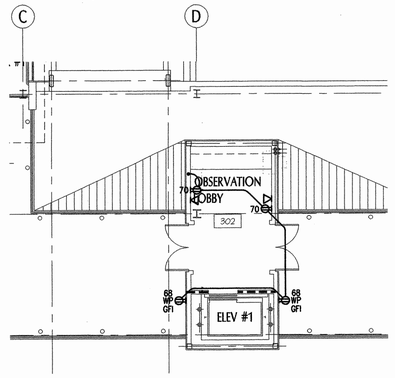
| FROM | TO | DATE |
|---|---|---|
| S.J. AMOROSO | tBP / ARCHITECTURE | 5/14/06 |
| tBP / ARCHITECTURE | ENGINEER/CONSULTANT | TBP - 6/14/06, Dovetail - 6/15/06 |
| ENGINEER/CONSULTANT | tBP / ARCHITECTURE | TBP - 6/15/06, Dovetail - 6/20/06 |
| tBP / ARCHITECTURE | S.J. AMOROSO | 6/20/06 |
| S.J. AMOROSO | ORIGINATOR | |

After coordinate with District furniture consultant, location of the wall mounted junction boxes are to be 3" to corner of the table as shown as follows, typical.

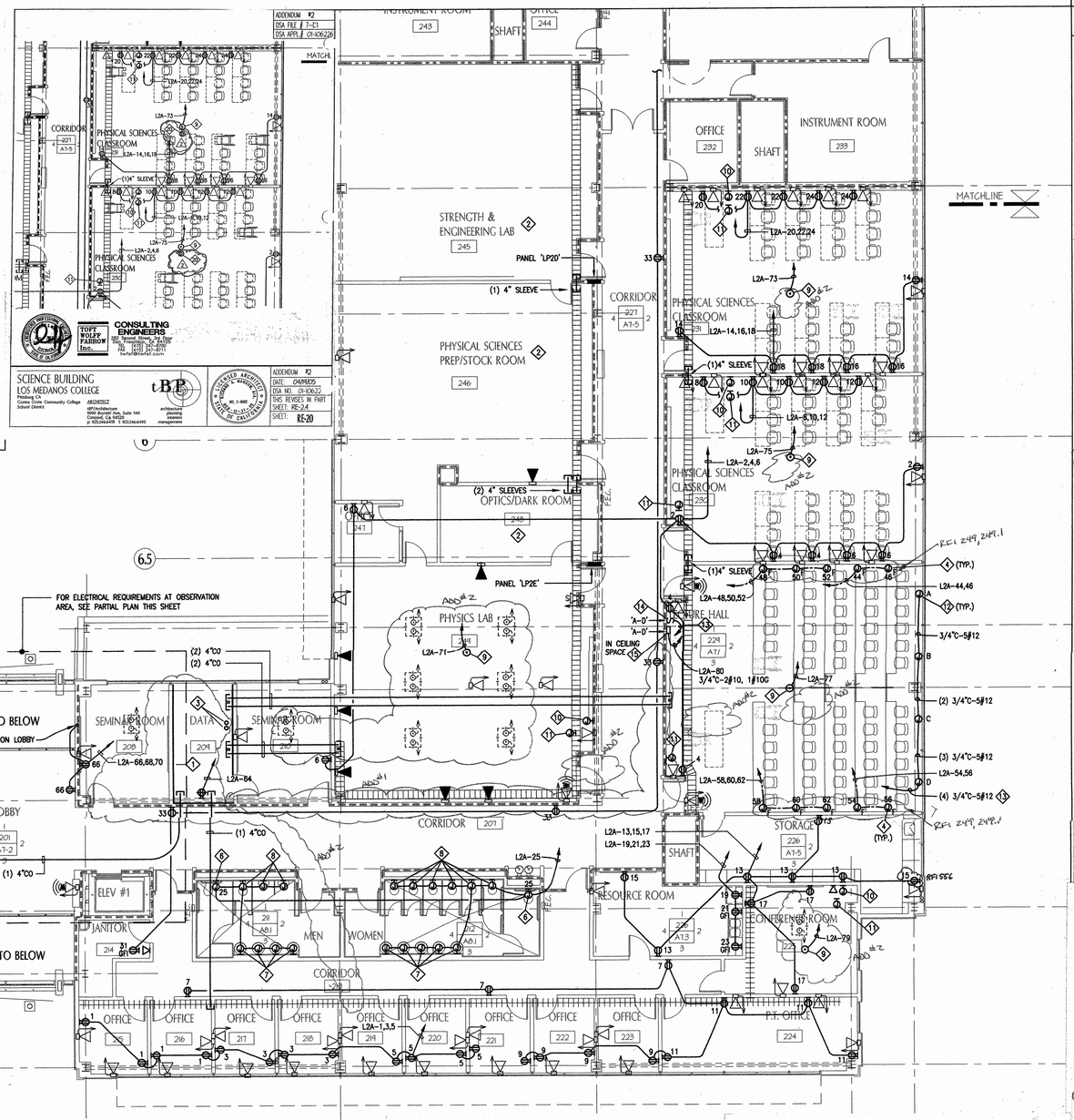
Vanessa Ling/tBP
6/20/06

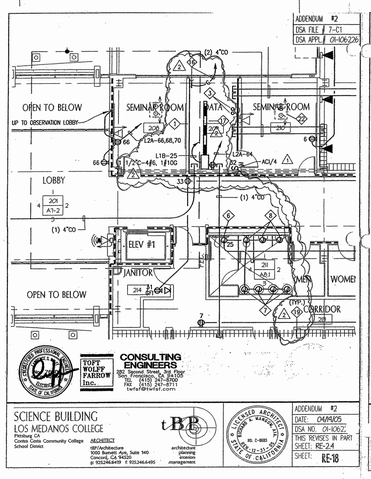


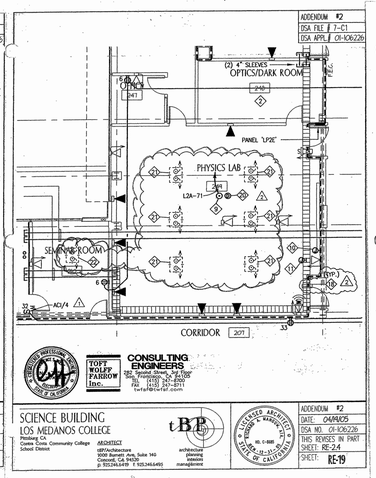

Los Medanos College
4CD Proj.# : L-565-B-23-SC
**Science Building**

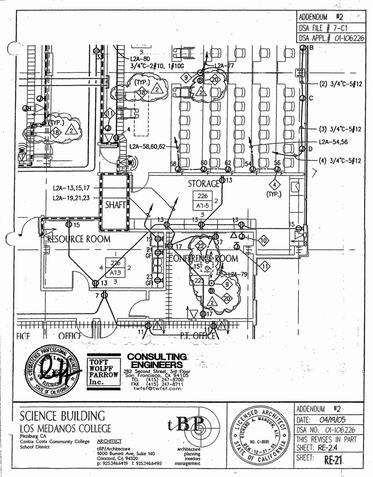



PARTIAL ROOF PLAN 2
SCALE: 1/8"=1'-0"



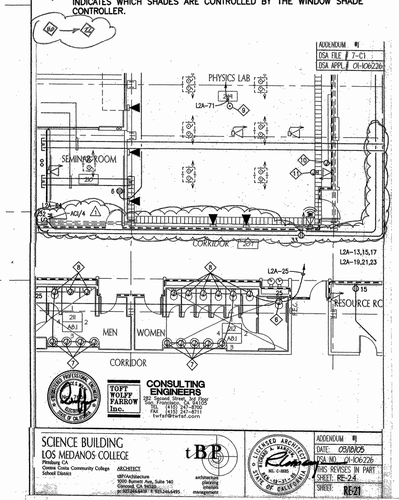



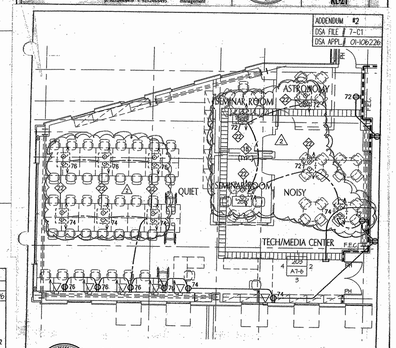



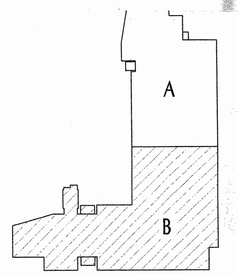

2ND FLOOR PLAN PART "B" 1
SCALE: 1/8"=1'-0"

## SHEET NOTES

1. 8'Hx3/4" THICK PLYWOOD TELEPHONE BACKBOARD, ON (3) WALLS OF ROOM.
2. REFER TO "ELECTRICAL LABORATORY DRAWING" FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS ROOM.
3. (2) 4" CONDUITS DOWN TO FIRST FLOOR DATA ROOM.
4. FLOOR MOUNTED JUNCTION BOX FOR 'POWER UP MODULES' AT BASE OF CLASS ROOM TABLES.
5. STUB 1"C FROM DATA OUTLET INTO SECOND FLOOR CEILING SPACE.
6. 120V JUNCTION BOX WITH TRANSFORMER (BY OTHERS) FOR FLUSH VALVE SENSOR.
7. 120V JUNCTION BOX FOR FAUCET MOTION SENSOR.
8. 120V JUNCTION BOX FOR FLUSH VALVE SENSOR.
9. DUPLEX RECEPTACLE FOR CEILING MOUNTED PROJECTOR. RECEPTACLE FOR PROJECTOR INSTALLED IN CEILING SPACE. COORDINATE EXACT LOCATION OF PROJECTOR WITH ARCHITECT 'RCP' DRAWINGS.
10. STUB (2) 1 1/4"C FROM 4-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
11. STUB (1) 3/4"C FROM 1-GANG OUTLET BOX INTO ACCESSIBLE CEILING SPACE, +6".
12. JUNCTION BOX FOR MOTORIZED WINDOW SHADE. LETTER ADJACENT TO OUTLET BOX DESIGNATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.
13. ROUTE HOMERUN TO RESPECTIVE MOTORIZED WINDOW SHADE CONTROL BOX.
14. CONTROL SWITCH FOR MOTORIZED SHADES 'A-D'. CONTRACTOR SHALL ROUGH-IN OUTLET BOX FOR SWITCH (2-GANG BOX). SWITCH FURNISHED BY VENDOR, INSTALLED AND CONNECTED BY CONTRACTOR.
15. WINDOW SHADE CONTROL BOX FOR MOTORIZED WINDOW SHADES. LETTER INDICATES WHICH SHADES ARE CONTROLLED BY THE WINDOW SHADE CONTROLLER.




TWF #03058.00

SHEET NOTES
1. 8'Hx3/4" THICK PLYWOOD TELEPHONE BACKBOARD, ON (3) WALLS OF ROOM. REFER TO TELCOM DRAWING T3.2.
2. DUPLEX RECEPTACLE FOR CEILING MOUNTED PROJECTOR. COORDINATE EXACT LOCATION OF RECEPTACLE WITH PROJECTOR REQUIREMENTS.
3. 20"x4" COPPER GROUND BUS BAR. MOUNT AT +6'-6" AFF. ROUTE AND CONNECT 1 1/2"C-#1/0G. FROM BUS BAR TO GROUND BUS OF PANEL 'L2A'. REFER TO TELCOM DRAWING T3.2.
4. 60A, 1 POLE, 300V WITH GROUND, STARLINE BUSWAY SYSTEM WITH 60A 'END' POWER FEED AND THE FOLLOWING:
a. PLUG-IN BUSWAY STRAIGHT SECTION AT +8'-2" AFF.
b. BUSWAY SUPPORT ASSEMBLY TO SUSPEND BUSWAY FROM BACK-TO-BACK 'U' CHANNEL OF GRID ABOVE.
c. BUSWAY END CAP.
COORDINATE LOCATION AND LENGTH OF STARLINE BUSWAY WITH TELCOM DRAWING T3.2.
5. DOUBLE SNAKETRAY IN CEILING SPACE, SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
6. SINGLE SNAKETRAY IN CEILING SPACE, SEE DETAIL H, SHEET E4.2 FOR SIZE AND SUPPORT OF SNAKETRAY.
7. CEILING MOUNTED DATA OUTLET FOR PROJECTOR. COORDINATE EXACT LOCATION OF OUTLET WITH PROJECTOR REQUIREMENTS. STUB (1) 3/4"C FROM OUTLET TO SNAKETRAY IN ACCESSIBLE CEILING SPACE.
8. RECESSED FLOOR BOX, WIREMOLD #RFB-SS WITH INTERNAL BRACKET #RFB-2AB-SS. STUB (2)1"C FROM FLOOR BOX INTO CEILING SPACE OF THE FIRST FLOOR. RECEPTACLE/CIRCUIT IN FLOOR BOX PER 'ELECTRICAL LABORATORY' DRAWINGS.
9. RECESSED FLOOR BOX, WIREMOLD #RFB-SS WITH INTERNAL BRACKET #RFB-2AB-SS. STUB (2) 1"C FROM FLOOR BOX INTO CEILING OF THE FIRST FLOOR. (1) DUPLEX RECEPTACLE INSTALLED IN FLOOR BOX.

TOFT WOLFF FARROW Inc. CONSULTING ENGINEERS
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San Francisco, CA 94105
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FAX (415) 247-8011
twfsf@twfsf.com

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg CA
Contra Costa Community College School District
ARCHITECT
tBP Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p 925.246.6491 f 925.246.6495
tBP architecture planning interiors management

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226
DATE: 04/04/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: RE-20
SHEET: RE-21
SHEET: RE-17
SHEET: RE-18
SHEET: RE-19

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OFFICE OF REGULATORY SERVICES
APPL - 01-106226
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AME 1-12-05

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agency

owner

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

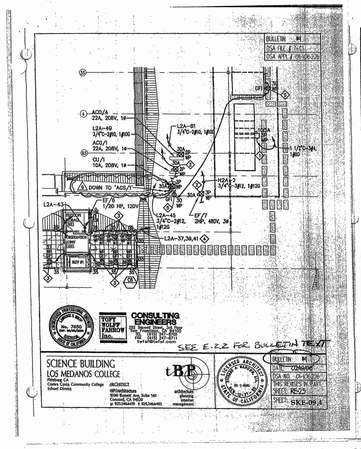
tBP project number : 20241.00
file name: 2n-FLR-A
drawn by: LIAI checked by: LSW
date: NOVEMBER 15, 2004

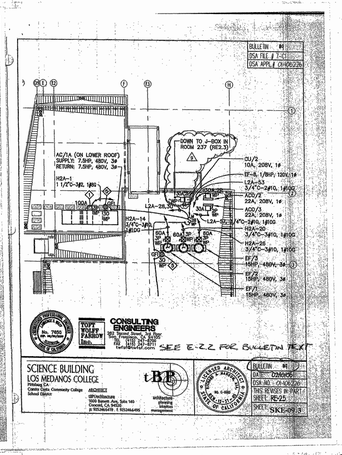
| Rev | date | description |
|---|---|---|

drawing title:
2nd FLOOR PLAN
PART "B" - POWER/SIGNAL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.: E-2.4

SEE SHEET RE-2.4




# Bulletin No.54

Date: 11/8/2006

To: S.J. Amoroso Construction
300 Bridge Parkway
Redwood shores CA 94065

Project: **LOS MEDANOS COLLEGE SCIENCE BUILDING**
Contra Costa Community College District
DSA No.01-106226, File #7-C1
IBP P/N 20247.00.

Description:

REFERENCE: Submittal No. 112

Provide and install a 120V circuit going to the smoke containment system. Tie this system into the fire alarm system via a local smoke detector.

1.) Utilize circuit 1,2A-31 in room 214 for required 120V power to Smoke Guard system (dedicated circuit not required).

2.) Fire alarm tie-in for elevator Smoke Guard system shall occur at corridor smoke detector 'C03' (sheet FA-1.4).

The elevator smoke door has no relation to the elevator recall programming at the subject smoke detector. Connection to the smoke detector shall be per instructions indicated in the overhead elevator door smoke containment submittal #112.

Issued by: Architect
Requested By: Electrical
Reason: No Circuit Going to Elevator Smoke Containment System
Enclosures: No Attachments
Distribution:

| Copies: | Name: | Organization: |
|---|---|---|
| 1 copy : | Mark Delgado | S. J. Amoroso |
| 1 copy : | Cam Perrotta | CCCC District |
| 1 copy : | Bob Hanke | Inspector of Record |
| 1 copy : | Tom Beckett | IBP/Architecture |
| 1 copy : | File 20247.007.4 | IBP/Architecture |
| 1 copy : | Larry Lai | TWF |

Action:
- ☐ For Information/Clarification only
- ☒ Provide Price/Credit Proposal. (Refer to this Bulletin No. when responding)
- ☐ Requires DSA review and approval
- ☐ Proceed as authorized by District

IBP/Architecture · 1000 Burnett Ave. Suite 140 · Concord, CA. 94520 · ph: 925.246.6419 · fax: 925.246.6495

---

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture
1000 Burnett Ave. Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Subj.: Overhead smoke door memorandum
Reference (dwg, spec.): n.o.e.

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

IBP p/n: 20247.00

RFI No: **422**
Subcontractor RFI:

Reply Requested By: 11/8/06

INFORMATION REQUESTED: Date: 11/2/06

*We have received the attached IBP memo titled "Additional Review of Submittal No. 112" which states:*
*"We will need to show a 120V circuit going to the smoke containment system and we will need to tie the system into the fire alarm system via a local smoke detector. Provide a PCO accordingly"*

However, the IBP memo offers no information regarding which panel/circuit the 120V power is to be taken from or if this needs to be a dedicated line. Also, no information is given regarding how this is to tie into the fire alarm system,such as which smoke detector to tie to or the relationship of this overhead smoke door to elevator recall programming.

Please provide a Bulletin with the needed design information so that we can proceed with this issue.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE: 11/08/06

Please refer to future Bulletin No. 54.

Thank you,
Jeff Mills

RFI # 000
Page 1

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**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture
1000 Burnett Ave. Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Subj.: Location of combination motor starters/ disconnects
Reference (dwg, spec.): E2.5

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

IBP p/n: 20247.00

RFI No: **508**
Subcontractor RFI:

Reply Requested By: 4/4/07

INFORMATION REQUESTED: Date: 3/29/07

Sheet E2.5 shows the power to roof top units. Sheet note 2 calls for combination motor/starters and this note is applied twice on the sheet, at ACO/1 and at EF/7 (should be labeled EF/5 since EF/7 is at the chiller building.
We understand that in fact, EF/ 3 and EF/4 need combination motor starters/disconnects.
Please confirm. We suggest "moving" the motor starters/disconnects from the two locations shown to the two locations needed.
Also, please confirm that ACO/1, ACO/4, EF/5 and CU/1 require disconnects.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:

Acknowledged EF/7 at sheet E2.5 should be labeled EF/5. EF/7 occurs at chiller building.

To Clarify:
1. EF/1, 2, 7 require VFD's per fan schedule
2. EF/3, 4, 5, 6 require disconnect switches (furnished and installed by electrical and shown per E2.5) and starters (furnished by mechanical and installed by electrical. See spec 16050, 2.2.D).
3. ACO/4CU's and ACS/CUs require only disconnects. (See symbol indications shown E2.5).

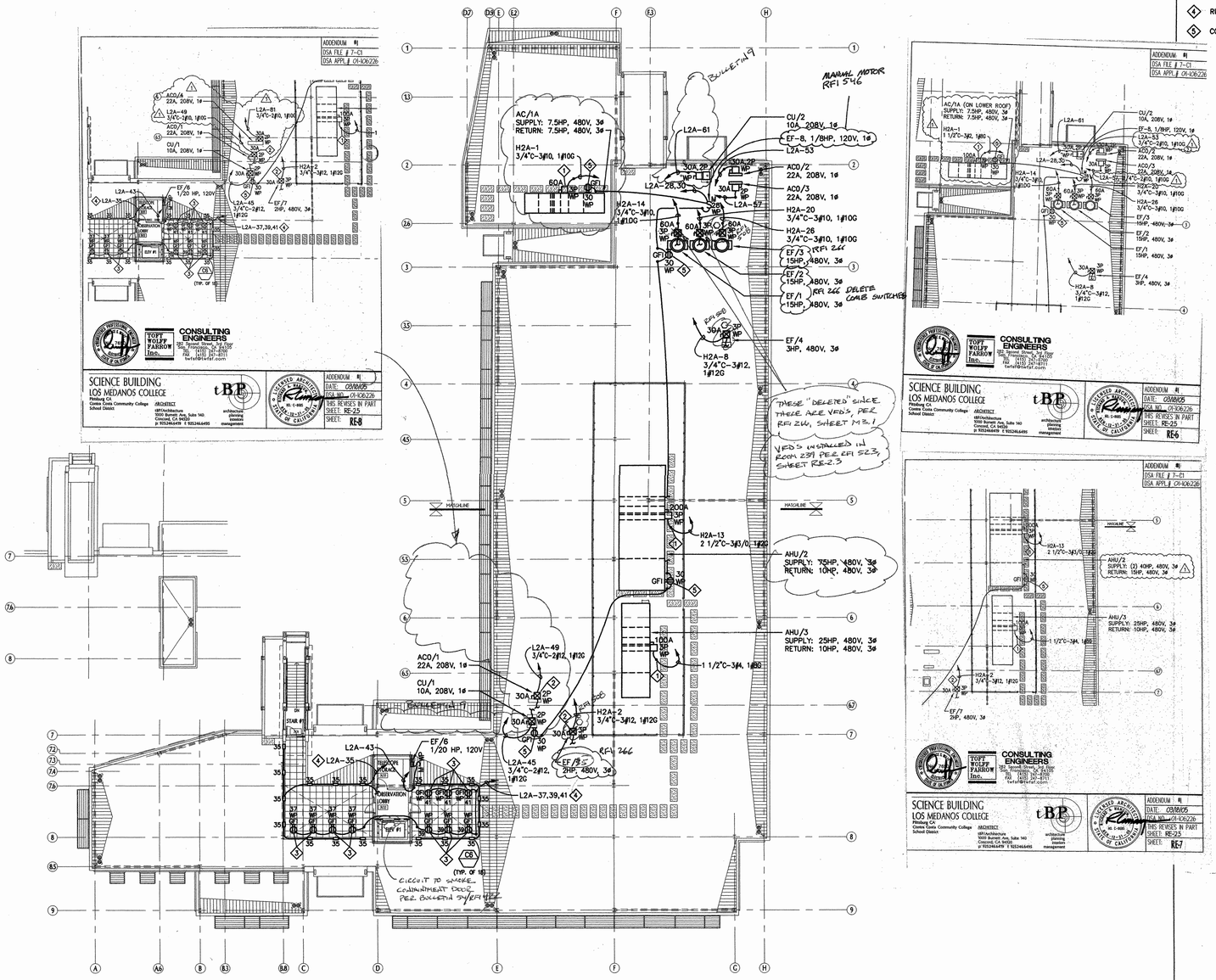
Jim Weaver / IBP Architecture
L. Lai/ TWF
D. Weston / Ainsworth Associates

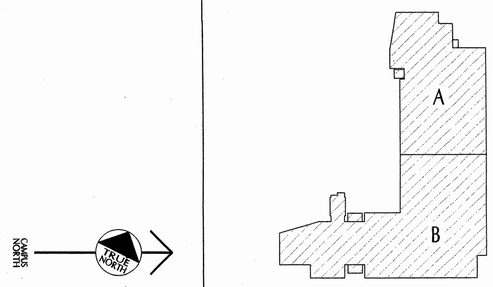
4/6/07
* EF/5 DOES NOT NEED A MOTOR WHERE PER INSPECTION OF EQUIPMENT BY ELECTRICIAN

RFI # 000
Page 1

## SHEET NOTES

1. CONNECT DISCONNECT SWITCH TO VARIABLE FREQUENCY DRIVE (BY OTHERS).
2. COMBINATION STARTER/DISCONNECT SWITCH, HORSEPOWER RATED.
3. RECEPTACLE MOUNTED ON POST FOR TELESCOPE.
4. RUN CIRCUIT HOMERUN TO PANEL 'L2A' VIA. SECOND FLOOR CEILING SPACE.
5. CONVENIENCE RECEPTACLE MOUNTED ON HVAC UNIT.




KEY PLAN

CAMPUS NORTH
TRUE NORTH
0 2 4 8 16

ROOF PLAN
SCALE: 1/16"=1'-0"

1

TWF #03058.00


tBP
architecture
planning
interiors
management

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p: 925.246.6419 f: 925.246.6495

architect

CONSULTING ENGINEERS
TOPF WOLFF FARROW Inc.
382 Second Street, 3rd Floor
San Francisco, CA 94105
TEL (415) 247-8700
FAX (415) 247-8711
twf@twf.com

consultant


DIV. OF ARCHITECTURE
DSA APPROVAL
OFFICE OF REGULATION SERVICES
APPL. - 01-106226
DATE 10/5/05

name
address
city, state, zip
pt: fx:

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

file name: 1s-FLR-A

drawn by: LLAI checked by: LSH

date: NOVEMBER 15, 2004

| Key | date | description |
|---|---|---|

drawing title:
ROOF PLAN

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.:
E-2.5

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture
1000 Burnett Ave, Suite 145
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6485

Subj.: Cooling Tower Disconnect Switch

Reference (dwg, spec.): E2.6

Reply Requested By: 5/14/07

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

IBP p/n: 20247.00

RFI No: **524**

Subcontractor RFI: EWS 87

**INFORMATION REQUESTED:** Date: 5/7/07

Please note the attached EWS RFI No. 87 regarding the disconnect switch on the cooling tower raised platform which does not have the proper clearance to be installed. Please advise.

**SUGGESTED SOLUTION:**

Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

**RESPONSE:** DATE:

No exception taken to installing disconnect at concrete support adjacent to ladder ☒ as located with Joe from Scott Elect at 5/8/07 jobwalk. Maintain 36" clearance as required.

Tom Beckett / IBP Architecture

5/8/07

RFI # 000
Page 1

87
R

**EDWARD W. SCOTT ELECTRIC CO., INC.**
456 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I. # 87 R.F.I. Date 5/4/07
JOB: 2351 ACTUAL REPLY DATE

TO: MARK DELGADO
GB: ROBERSON PAVISH
REF DWG: E-2.6
LOCATION: COOLING TOWER

POTENTIAL COST IMPACT
___ COST ___ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: WE ARE UNABLE TO INSTALL THE DISCONNECT SWITCH ON THE COOLING TOWER RAISED PLATFORM DUE TO LACK OF PROPER CLEARANCE. THE ALTERNATIVE IS TO INSTALL IT ON THE GROUND LEVEL NEXT TO THE LADDER.

REPLY REQUESTED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190435

# PANEL 'CH'

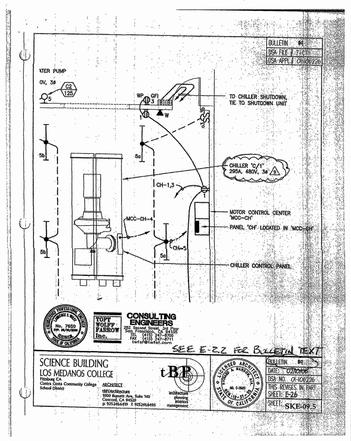
VOLTS: 120/208V — PHASE: 3 — MAIN: 30A, 3P BREAKER
MOUNTING: (LOCATED IN 'MCC-CH') — WIRE: 4 — BUSSING: 100A

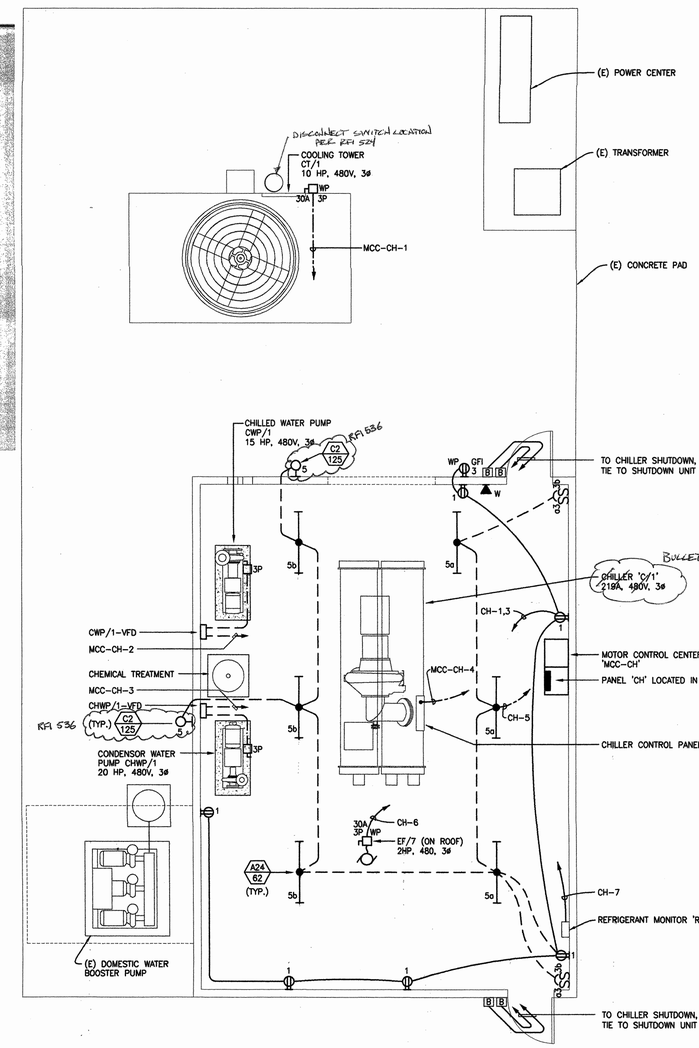
| LOAD | * | A-VA | B-VA | C-VA | BKR | CT | CT | BKR | A-VA | B-VA | C-VA | * | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES | R | 1080 | | | 20/1 | 1 | 2 | | | | | | SPACE |
| RECEPTACLES | R | | 180 | | 20/1 | 3 | 4 | | | | | | SPACE |
| LIGHTS | L | | | 700 | 20/1 | 5 | 6 | | | | | | SPACE |
| REFRIGERANT MONITOR | C | 100 | | | 20/1 | 7 | 8 | | | | | | SPACE |
| SPACE | | | | | | 9 | 10 | | | | | | SPACE |
| SPACE | | | | | | 11 | 12 | | | | | | SPACE |
| SPACE | | | | | | 13 | 14 | | | | | | SPACE |
| SPACE | | | | | | 15 | 16 | | | | | | SPACE |
| SPACE | | | | | | 17 | 18 | | | | | | SPACE |
| SPACE | | | | | | 19 | 20 | | | | | | SPACE |
| SPACE | | | | | | 21 | 22 | | | | | | SPACE |
| SPACE | | | | | | 23 | 24 | | | | | | SPACE |
| PHASE TOTALS: | | 1180 | 180 | 700 | 2060 =TOTAL CONNECTED LOAD,VA (FOR DEMAND LOAD SEE BELOW) | | | | | | | | |
| PHASE AMPERES: | | 9.8 | 1.5 | 5.8 | | | | | | | | | |

*DEMAND LOAD CALCULATION:

| | | | | | | |
|---|---|---|---|---|---|---|
| L=LIGHTING LOADS: | | 1.25 | X | 700 | = | 875 VA |
| C=CONTINUOUS LOADS, OTHER: | | 1.25 | X | 100 | = | 125 VA |
| M=MOTOR LOADS (INCL LGST): | | 1.00 | X | 0 | = | 0 VA |
| LARGEST, VA: | | 0.25 | X | 0 | = | 0 VA |
| R=RECEPTACLES: 1ST 10K: | | 1.00 | X | 1260 | = | 1260 VA |
| BALANCE: | | 0.50 | X | 0 | = | 0 VA |
| K=KITCHEN LOADS: QTY: | 0 | 1.00 | X | 0 | = | 0 VA |
| N=NONCONTINUOUS LOADS, OTHER: | | 1.00 | X | 0 | = | 0 VA |
| (P=PANEL, INCL. IN ABOVE) | | | | | | |
| NEW DEMAND LOAD | | | | | = | 2260 VA = 6.3 AMPERES |
| EXISTING LOAD | VA | | X | 1.25 | = | 0 VA = 0.0 AMPERES |
| TOTAL LOAD | | | | | = | 2260 VA = 6.3 AMPERES |

NOTES:




## MECHANICAL/CHILLER/PUMP BUILDING

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

1 / E2.6

TWF #03058.00


tBP
architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495


architect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282 Second Street, 3rd Floor
San Francisco, CA 94105
FAX (415) 247-8711
twfs@twfs.com


consultant

name
address
city, state, zip
ph: fx:

agency

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

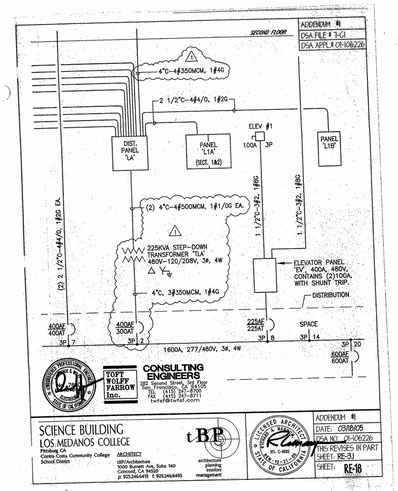
owner

tBP project number : 20241.00
file name: DETAIL
drawn by: LLM checked by: LSM
date: NOVEMBER 15, 2004

| Rev. | date | description |
|---|---|---|

drawing title:
PARTIAL PLAN

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.: E-2.6




**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Power to drinking fountains
Reference (dwg, spec.): E-3.1, RE-2.1 thru 2.4, PS.1

RFI No: **351**
Subcontractor RFI:

Reply Requested By: 9/28/06

INFORMATION REQUESTED: Date: 9/21/06

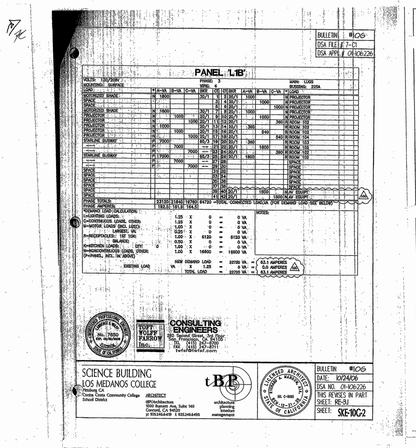
Per panel schedule on sheet E-3.1, panel L2A has two breakers for drinking fountains. However, the powerground drawings on sheets RE-2.1 thru RE-2.4 do not show distribution to the drinking fountain locations nor do the drinking fountain fixtures contain water chillers (i.e. they do not need power). Please advise what is desired in this situation.

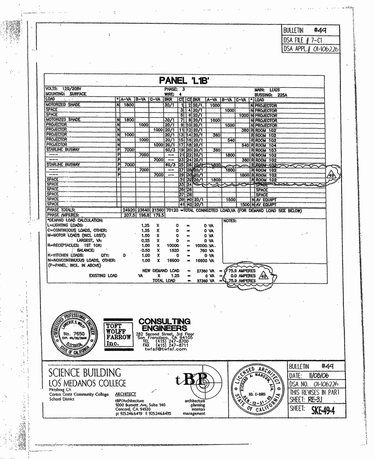
SUGGESTED SOLUTION:
Cost impact: ☐ Schedule impact: ☐ days By: Mark Delgado

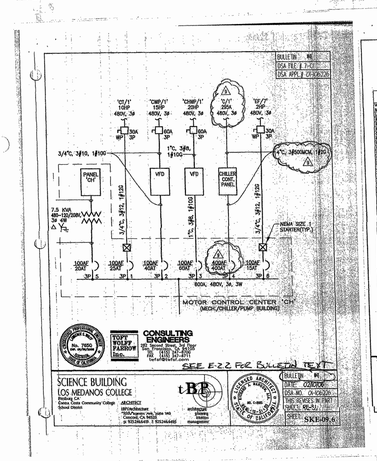
RESPONSE: DATE:
Allow the drinking fountains do not require power. TMF recommends that the circuits indicated for drinking fountains become spares.

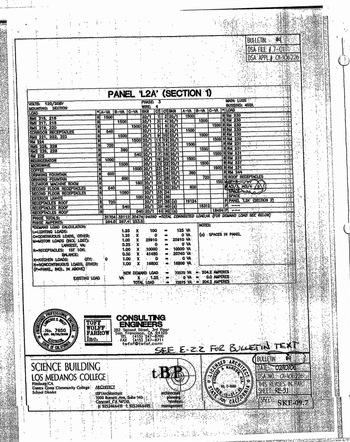
Larry Lei/TMF
9/21/06

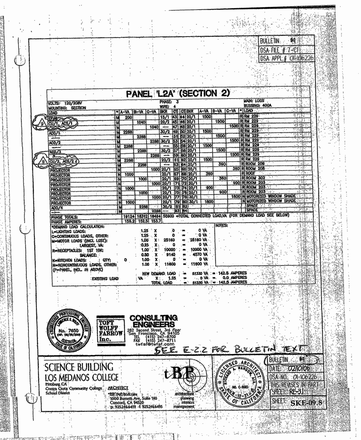
RFI # 000
Page 1

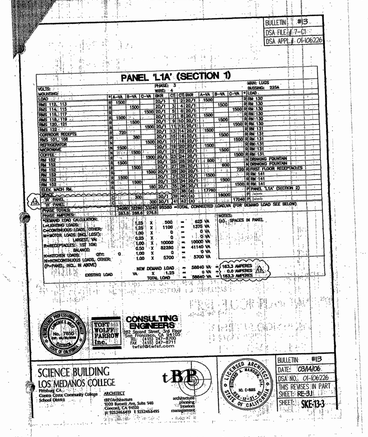



**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Size of Conduit/Wire Feeding Elev. Panel "EV"
Reference (dwg, spec.) E-3.1

RFI No: **159**
Subcontractor RFI: EWS 10

Reply Requested By: 3/2/06

INFORMATION REQUESTED: Date: 3/23/06

Please note the attached Scott Electric RFI No. 10 regarding the one line diagram on Drawing E-3.1 which does not specify the size of conduit or wire feeding elevator panel "EV". Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:
In response to RFI#110:
Feeder to Panel 'EV' shall be 2-1/2" C - 3 #4G, 1 #2G.
LLM
Tell Watt Farrer Inc. By:

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J.AMOROSO | IBP / ARCHITECTURE | 3/23/06 |
| IBP / ARCHITECTURE | ENGINEER/CONSULTANT THP | 3-24-06 |
| ENGINEER/CONSULTANT | IBP / ARCHITECTURE | 3-24-06 |
| IBP / ARCHITECTURE | S.J. AMOROSO | 3-27-06 |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
IBP p/n: 20247.00

Subj.: Panel LP1B
Reference (dwg, spec.): E3.1/LE3-1

RFI No: **393**
Subcontractor RFI: EWS 48

Reply Requested By: 10/26/06

INFORMATION REQUESTED: Date: 10/18/06

Please note the attached Edward Scott RFI No. 48 regarding Panel LP1B which is a 400amp Panel. It is being fed from Panel LA from a 400amp breaker. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

Panel 'LP1B' requires a feeder rated at (2) 3-1/2"C - 4 #3/0, 1 #2G each, in lieu of (1) 2-1/2"C - 4 #1/0, 1 #6G.

If the original 2-1/2"C has not been installed yet, then a feeder rated at 3"C - 4 #500MCM, 1 #2G is recommended for panel 'LP1B'.

Larry Lei/THP - 10/20/06

RFI # 000
Page 1

EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4314
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: SCIENCE BLDG. R.F.I.# 48 R.F.I. Date 10/18/06
JOB: 2451 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: E-3.1/LE3-1
LOCATION: SCIENCE BLDG

POTENTIAL COST IMPACT
X COST — SCHEDULE
OTHER — LABOR
NO IMPACT — MATERIAL

INFORMATION REQUESTED: PANEL LP1B (LE3-1) IS A 400AMP PANEL BEING FED FROM PANEL LA (E3.1) FROM A 400 AMP BREAKER, WITH A 3/4" CONDUIT WITH 4-1/0 AWG CABLES.
IS THIS CORRECT? PLEASE ADVISE.

REPLY REQUIRED BY: 10/26/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

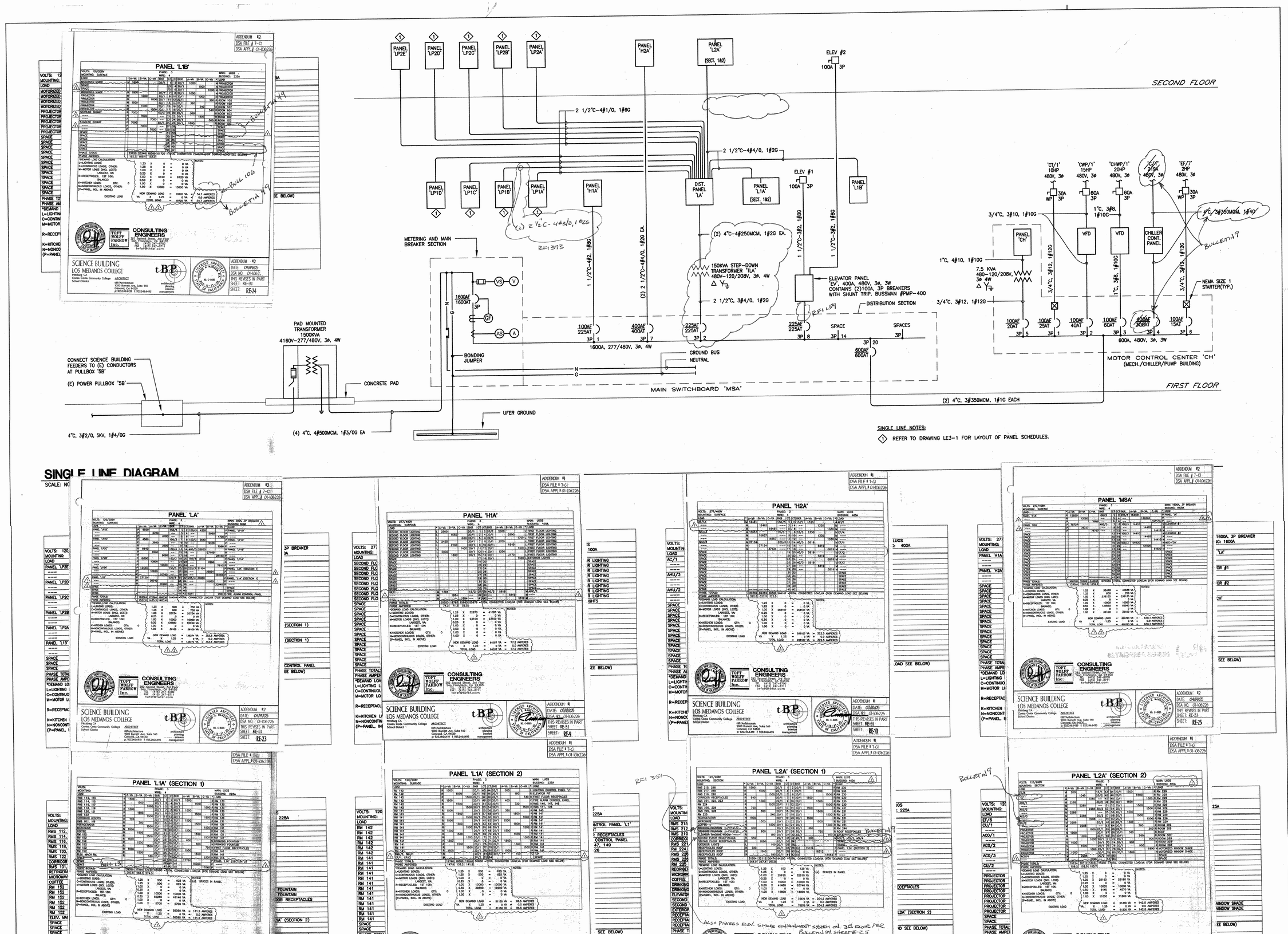
RESPONSE:

DATED: SIGNED:

RFDOC38

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 199436

Los Medanos College
4CD Proj.# : L-565-B-23-SC
**Science Building**

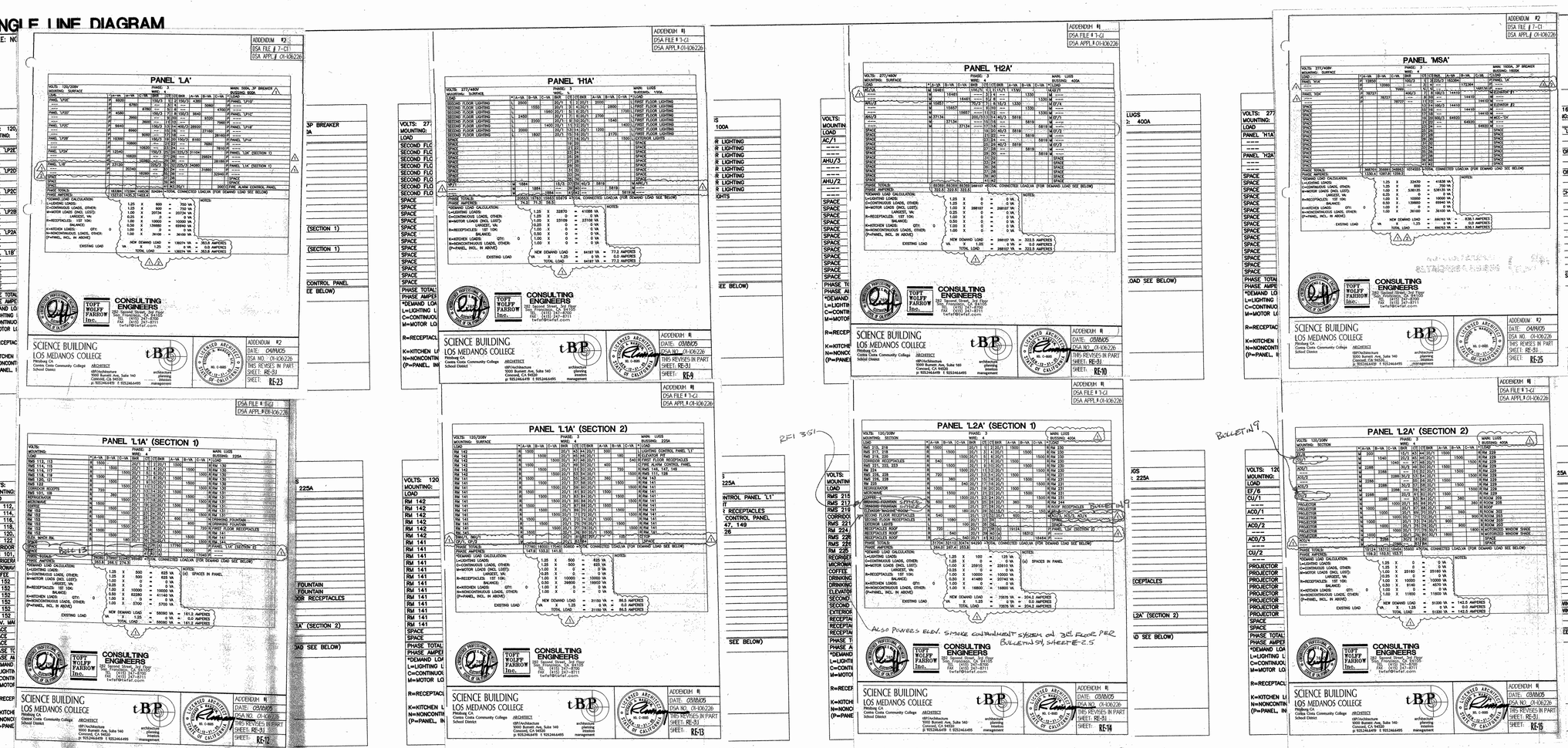



SINGLE LINE NOTES:

1. REFER TO DRAWING LE3-1 FOR LAYOUT OF PANEL SCHEDULES.

## SINGLE LINE DIAGRAM

SCALE: NO




TWF #03058.00


tBP architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495
architect

CONSULTING ENGINEERS
TOFT WOLFF FARROW Inc.
780 Beach Street, Suite 100
San Francisco, CA 94109
FAX (415) 247-8711
twfsf@twfsf.com
consultant


DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. 01-106226
DATE 1-13-05

agency

name
address
city, state, zip
ph:
fax

owner

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

tBP project number: 20241.00

file name: DIAGRAM

drawn by: LLAI checked by: LSH

date: NOVEMBER 15, 2004

| Rev. | date: | description: |
|---|---|---|

drawing title:

SINGLE LINE DIAGRAM

LMC SCIENCE 313-023-112.01-0-00.00

drawing no: E-3.1

## CERTIFICATE OF COMPLIANCE (Part 1 of 3) LTG-1

| PROJECT NAME | | DATE |
|---|---|---|
| LOS MEDANOS COLLEGE – Contra Costa Community College District | | 2/27/04 |
| PROJECT ADDRESS: 2700 E. Leland Road – Pittsburg, CA 94565 | | |
| PRINCIPAL DESIGNER–LIGHTING: TOFT WOLFF FARROW INC. | TELEPHONE: (415) 247–8700 | Building Permit # |
| DOCUMENTATION AUTHOR: TOFT WOLFF FARROW INC. | TELEPHONE: (415) 247–8700 | Checked by/Date Enforcement Agency Use |

### GENERAL INFORMATION

| DATE OF PLANS | BUILDING CONDITION FLOOR AREA | CLIMATE ZONE |
|---|---|---|
| 2/27/04 | 34,677 | |

BUILDING TYPE: [X] NONRESIDENTIAL [ ] HIGH RISE RESIDENTIAL [ ] HOTEL/MOTEL GUEST ROOM

PHASE OF CONSTRUCTION: [X] NEW CONSTRUCTION [ ] ADDITION [ ] ALTERATION [ ] UNCONDITIONED (FILE AFFIDAVIT)

METHOD OF ENVELOPE: [X] COMPLETE BLDG. [ ] AREA CATEGORY [ ] TAILORED [ ] PERFORMANCE

### 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 |
|---|---|---|
| LAWRENCE LAI | [signature] | 2/27/04 |

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 the envelope requirements contained in the applicable parts of Section 110, 119, 130 through 132, 146 and 149 of Title 24, Part 6.

Please check one:

[X] 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, 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.

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

| PRINCIPAL LIGHTING DESIGNER–NAME | SIGNATURE | LIC.# | DATE |
|---|---|---|---|
| Lawrence S. Wolff, P.E | [signature] | E–7650 | 9/30/06 |

### LIGHTING MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures: E4.1

### INSTRUCTION TO APPLICANT

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

LTG–1: Required on plans for all submittals. Part 2 and 3 may be incorporated in schedules on plans.
LTG–2: Required for all submittals.
LTG–3: Optional. Use only if lighting control credits are taken.
LTG–4: Optional. Parts 2 and 3 and LTG–5 are optional if Tailored Method is used.

Nonresidential Compliance Form January 2001

## LIGHTING COMPLIANCE SUMMARY LTG-2

PROJECT NAME: LOS MEDANOS COLLEGE – Contra Costa Community College District DATE: 2/27/04

### ACTUAL LIGHTING POWER

| LUMINAIRE NAME | Type DESCRIPTION | NUMBER OF LUMINARIES | WATTS PER LUMINAIRE (Including Ballast) | CEC DEFAULT? Y | N | TOTAL WATTS |
|---|---|---|---|---|---|---|
| A1 | 2'x4' Fluor., Parabolic Louver | 80 | 62 | X | | 4960 |
| A2 | 2'x4' Fluor., Parabolic Louver | 5 | 70 | X | | 350 |
| A3 | 2'x4' Fluor., Parabolic Louver | 2 | 70 | X | | 140 |
| A4 | 4' Fluor. | 8 | 62 | X | | 496 |
| A5 | 2'x4' Fluor., Parabolic Louver | 10 | 62 | X | | 620 |
| A6 | 9"x4' Fluor., Parabolic Louver | 84 | 62 | X | | 5208 |
| A7 | 9"x4' Fluor., Parabolic Louver | 50 | 62 | X | | 3100 |
| A8 | 8' Industrial Fluor. | 6 | 62 | X | | 372 |
| A9 | 2'x4' Industrial Fluor., Parabolic Louver | 132 | 86 | X | | 11352 |
| A10 | 2'x4' Fluor., Prismatic lens | 3 | 62 | X | | 186 |
| A11 | 2'x4' Fluor., Prismatic lens | 1 | 64 | X | | 64 |
| A12 | 2'X4' Fluor., Prismatic lens | 2 | 64 | X | | 128 |
| A13 | 4' Industrial Fluor. Fixture | 2 | 62 | X | | 124 |
| A14 | 4' Cove Fluor. Fixture | 1 | 32 | X | | 32 |
| A15 | 8' Cove Fluor. Fixture | 3 | 62 | X | | 186 |
| A16 | 12' Cove Fluor. Fixture | 4 | 94 | X | | 376 |
| A17 | 20' Cove Fluor. Fixture | 1 | 156 | X | | 156 |
| A18 | 8' Fluor., Indirect/direct | 15 | 124 | X | | 1860 |
| A19 | 8' Fluor., Indirect/direct | 6 | 124 | X | | 744 |
| A20 | 2'x4' Fluor. Parabolic Louver | 31 | 86 | X | | 2666 |
| A21 | 2'x4' Fluor. Parabolic Louver | 22 | 96 | X | | 2112 |
| A22 | 2'x4' Fluor. Parabolic Louver | 28 | 96 | X | | 2688 |
| A24 | 4' Industrial Fluor. | 6 | 64 | X | | 384 |
| A25 | 4' Fluor. Prismatic Lens | 4 | 32 | X | | 128 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| B1 | 8" Dia. Compact Fluor. | 20 | 35 | X | | 700 |
| B2 | 8" Dia. Compact Fluor. | 25 | 35 | X | | 875 |
| B3 | 8" Dia. Compact Fluor. | 36 | 45 | X | | 1620 |
| B4 | 8" Dia. Compact Fluor. | 30 | 45 | X | | 1350 |
| B5 | 8" Dia. Compact Fluor. | 2 | 35 | X | | 70 |
| B6 | 14" Dia. Fluor. | 40 | 42 | X | | 1680 |
| C1 | Wall Mtd. Compact Fluor. | 2 | 17 | X | | 34 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | |
|---|---|
| SUBTOTAL FROM THIS PAGE | 44761 |
| PLUS SUBTOTAL FROM CONTINUATION PAGE | |
| PORTABLE LIGHTING (From LTG–1 Part 3 of 3) | 0 |
| LESS CONTROL CREDIT WATTS (From LTG–3) | |
| ADJUSTED ACTUAL WATTS | 44761 |

### ALLOWED LIGHTING POWER (Choose One Method)

#### COMPLETE BUILDING METHOD

| BUILDING CATEGORY (From 146(b) Table 1–M) | WATTS PER SF | COMPLETE BLDG. AREA | ALLOWED WATTS |
|---|---|---|---|
| SCHOOLS | 1.4 | 61,332 | 85864.8 |

#### AREA CATEGORY METHOD

| AREA CATEGORY (From 146(b) Table 1–N) | WATTS PER SF | AREA (SF) | ALLOWED WATTS |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TOTALS | | 0 AREA | 0 WATTS |

#### TAILORED METHOD

TOTAL ALLOWED WATTS (From LTG–4):

Nonresidential Compliance Form January 2001

## CERTIFICATE OF COMPLIANCE (PART 2 of 3) LTG-1

PROJECT NAME: LOS MEDANOS COLLEGE – Contra Costa Community College District Date: 2/27/04

### INSTALLED LIGHTING SCHEDULE

| Name | LUMINAIRE DESCRIPTION | LAMPS Type DESCRIPTION | LAMPS No. Of Lamps | LAMPS Watts Per Lamp | BALLASTS Type DESCRIPTION | BALLASTS No. Of Ballast | Lumindire No. Of Lumin. | Lumindire Watts/Lumin. | TOTAL WATTS |
|---|---|---|---|---|---|---|---|---|---|
| A1 | 2'x4' Fluor., Parabolic Louver | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 80 | 62 | 4960 |
| A2 | 2'x4' Fluor., Parabolic Louver | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 5 | 70 | 350 |
| A3 | 2'x4' Fluor., Parabolic Louver | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 2 | 70 | 140 |
| A4 | 4' Fluor. | Fluor 32W T8 | 2 | 31 | Electronic | 1 | 8 | 62 | 496 |
| A5 | 2'x4' Fluor., Parabolic Louver | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 10 | 62 | 620 |
| A6 | 9"x4' Fluor., Parabolic Louver | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 84 | 62 | 5208 |
| A7 | 9"x4' Fluor., Parabolic Louver | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 50 | 62 | 3100 |
| A8 | 8' Industrial Fluor. | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 6 | 62 | 372 |
| A9 | 2'x4' Industrial Fluor., Parabolic Louver | Fluor 32W T8 | 3 | 32 | Electronic | 2 | 132 | 86 | 11352 |
| A10 | 2'x4' Fluor., Prismatic lens | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 3 | 62 | 186 |
| A11 | 2'x4' Fluor., Prismatic lens | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 1 | 64 | 64 |
| A12 | 2'X4' Fluor., Prismatic lens | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 2 | 64 | 128 |
| A13 | 4' Industrial Fluor. Fixture | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 2 | 62 | 124 |
| A14 | 4' Cove Fluor. Fixture | Fluor 32W T8 | 1 | 32 | Electronic | 1 | 1 | 32 | 32 |
| A15 | 8' Cove Fluor. Fixture | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 3 | 62 | 186 |
| A16 | 12' Cove Fluor. Fixture | Fluor 32W T8 | 3 | 32 | Electronic | 2 | 4 | 94 | 376 |
| A17 | 20' Cove Fluor. Fixture | Fluor 32W T8 | 5 | 32 | Electronic | 3 | 1 | 156 | 156 |
| A18 | 8' Fluor., Indirect/direct | Fluor 32W T8 | 4 | 32 | Electronic | 2 | 15 | 124 | 1860 |
| A19 | 8' Fluor., Indirect/direct | Fluor 32W T8 | 4 | 32 | Electronic | 2 | 6 | 124 | 744 |
| A20 | 2'x4' Fluor. Parabolic Louver | Fluor 32W T8 | 3 | 32 | Electronic | 2 | 31 | 86 | 2666 |
| A21 | 2'x4' Fluor. Parabolic Louver | Fluor 32W T8 | 3 | 32 | Electronic | 1 | 22 | 96 | 2112 |
| A22 | 2'x4' Fluor. Parabolic Louver | Fluor 32W T8 | 3 | 32 | Electronic | 1 | 28 | 96 | 2688 |
| A24 | 4' Industrial Fluor. | Fluor 32W T8 | 2 | 32 | Electronic | 1 | 6 | 64 | 384 |
| A25 | 4' Fluor. Prismatic Lens | Fluor 32W T8 | 1 | 32 | Electronic | 1 | 4 | 32 | 128 |
| | | | | | | | | | 0 |
| | | | | | | | | | 0 |
| | | | | | | | | | 0 |
| B1 | 8" Dia. Compact Fluor. | Fluor 32W TRT | 4 | 32 | Electronic | 1 | 20 | 35 | 700 |
| B2 | 8" Dia. Compact Fluor. | Fluor 32W TRT | 1 | 32 | Electronic | 1 | 25 | 35 | 875 |
| B3 | 8" Dia. Compact Fluor. | Fluor 32W TRT | 1 | 32 | Electronic | 1 | 36 | 45 | 1620 |
| B4 | 8" Dia. Compact Fluor. | Fluor 32W TRT | 1 | 32 | Electronic | 1 | 30 | 45 | 1350 |
| B5 | 8" Dia. Compact Fluor. | Fluor 32W TRT | 1 | 32 | Electronic | 1 | 2 | 35 | 70 |
| B6 | 14" Dia. Fluor. | Fluor 40W | 1 | 42 | Electronic | 1 | 40 | 42 | 1680 |
| C1 | Wall Mtd. Compact Fluor. | Fluor 13WQuad | 1 | 13 | Electronic | 1 | 2 | 17 | 34 |
| | | | | | | | | | 0 |
| | | | | | | | | | 0 |
| | | | | | | | | | 0 |
| | | | | | | | | | 0 |
| | | | | | | | | | 0 |
| | | | | | | | | | 0 |

Efficacy and Control Requirement of 130(c)
Control Requirements of 131(f)

| | |
|---|---|
| SUBTOTAL FROM THIS PAGE | 44761 |
| PLUS SUBTOTAL FROM CONTINUATION PAGE | |
| PORTABLE LIGHTING (From LTG–1 Part 3 of 3) | 0 |
| LESS CONTROL CREDIT WATTS (From LTG–3) | |
| ADJUSTED ACTUAL WATTS | 44761 |

### MANDATORY AUTOMATIC CONTROLS

| CONTROL LOCATION (Room #) | CONTROL IDENTIFICATION | CONTROL TYPE (Auto Time Switch, Exterior, etc.) | SPACE CONTROLLED | NOTE TO FIELD |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

### CONTROLS FOR CREDIT

| CONTROL LOCATION (Room # or Dwg. #) | CONTROL IDENTIFICATION | CONTROL TYPE (Occupant, Daylight, Dimming, etc.) | LUMINARIES CONTROLLED TYPE | LUMINARIES CONTROLLED # OF LUMIN. | NOTE TO FIELD |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

### NOTES TO FIELD – For Building Department Use Only

Nonresidential Compliance Form January 2001

## PORTABLE LIGHTING WORKSHEET (Part 3 of 3) LTG-1

PROJECT NAME: LOS MEDANOS COLLEGE – Contra Costa Community College District DATE: 2/27/04

### TABLE 1A – PORTABLE LIGHTING NOT SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET

| A | B | C | D |
|---|---|---|---|
| ROOM# OR ZONE ID | DEFAULT | AREA (SF) | TOTAL WATTS (B X C) |
| | 0.2 | | 0 |
| | 0.2 | | 0 |
| | 0.2 | | 0 |
| | 0.2 | | 0 |
| | 0.2 | | 0 |
| | 0.2 | | 0 |
| | | 0 | 0 |

### TABLE 1B – PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET

| A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|
| ROOM# OR ZONE ID | PORTABLE LIGHTING DESCRIPTION(S) PER TASK AREA | LUMINAIRE(S) WATTS PER TASK AREA | TASK AREA (SF) | NUMBER OF TASK AREAS | TOTAL AREA (SF) (D X E) | TOTAL WATTS (C X E) |
| | | | | | 0 | 0 |
| | | | | | 0 | 0 |
| | | | | | 0 | 0 |
| | | | | | 0 | 0 |
| | | | | | 0 | 0 |
| | | | | | 0 | 0 |
| | | | | | 0 | 0 |
| | | | | TOTAL | 0 | 0 |

### TABLE 1C – PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE AREA > 250 SQUARE FEET

| ROOM# OR ZONE ID | TOTAL AREA (SF) |
|---|---|
| | |
| | |
| TOTAL | 0 |

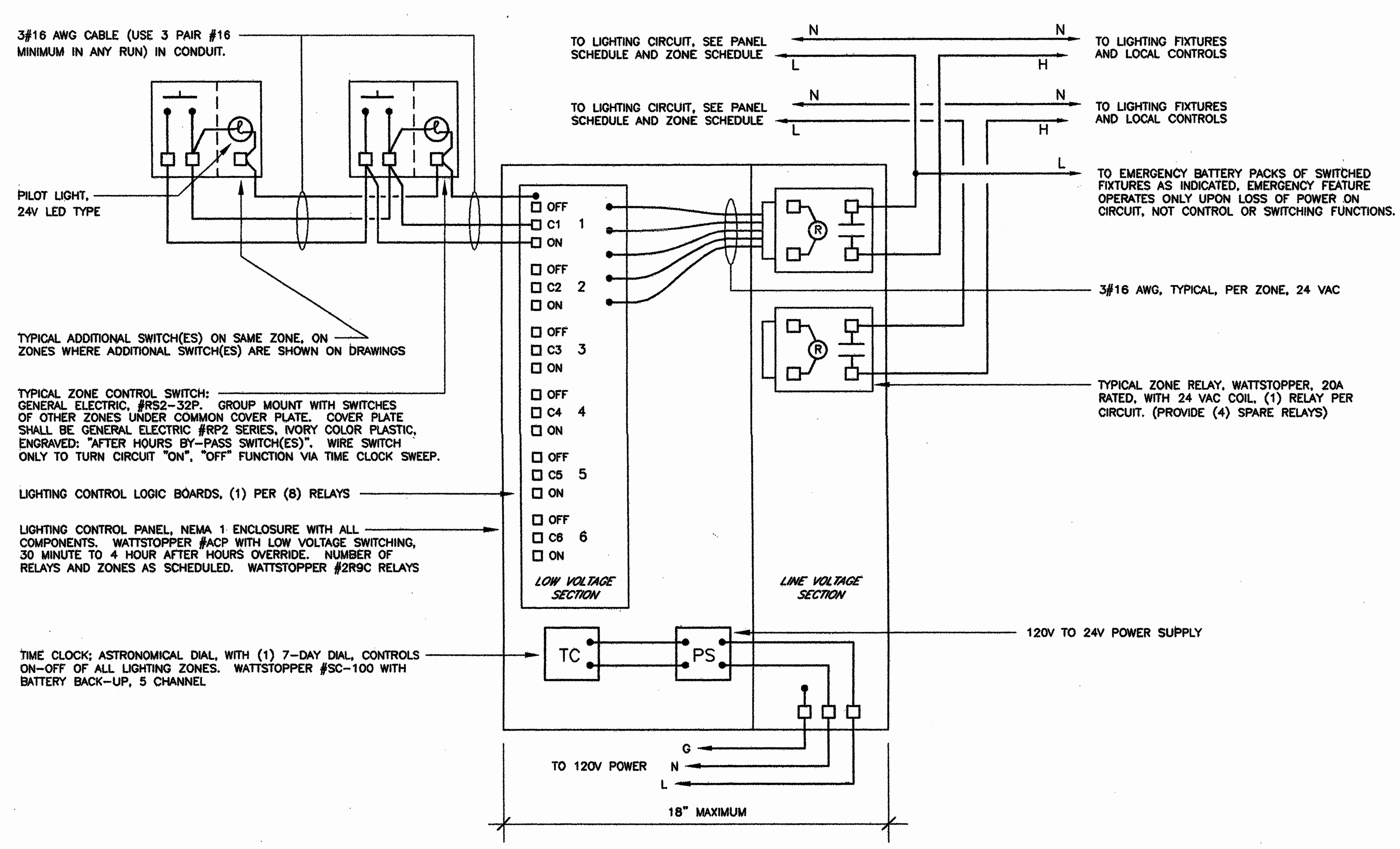
Designer needs to provide detailed documentation that the lighting level provided by the overhead lighting meets the needs of the space. The details include luminaire types, CU, and mounting locations relative to work areas.

### BUILDING SUMMARY – PORTABLE LIGHTING

| BUILDING SUMMARY | TOTAL AREA (SF) (FROM TABLES 1A+1B+1C) | TOTAL WATTS (FROM TABLES 1A+1B) |
|---|---|---|
| BUILDING TOTAL | 0 | 0 |

Enter on LTG–1 and 2: Portable Lighting

Nonresidential Compliance Form January 2001




## LIGHTING CONTROL DIAGRAM

NOT TO SCALE

## LIGHTING ZONE SCHEDULE

| ZONE NUMBER | CIRCUIT NUMBER | VOLTAGE | RELAY NUMBER |
|---|---|---|---|
| 1 | H1A–2 | 277 | |
| 2 | H1A–6 | 277 | |
| 3 | H1A–10 | 277 | |
| 4 | H1A–1 | 277 | |
| 5 | H1A–5 | 277 | |
| 6 | H1A–9 | 277 | |
| 7 | H1A–14 | 277 | |
| 8 | H1A–16 | 277 | |
| 9 | H1A–11 | 277 | |
| 10 | H1A–13 | 277 | |

## NOTE BLOCK FOR MANDATORY MEASURES

**Building Lighting Shut-Off**
The building lighting shut–off system consists of an automatic time switch, with a zone for each floor.

**Override for Building Lighting Shut-off**
The automatic building shut–off system is provided with a manual, accessible override switch in sight of the lights. The area of override does not exceed 5,000 square feet.

**Automatic Control Devices Certified**
All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.

**Fluorescent Ballast and Luminaries Certified**
All fluorescent fixtures specified for the project are certified and listed in the Directory, All installed fixtures shall be certified.

**Tandem Wiring for Two-Lamp Ballasts**
Not applicable (no one or three lamp fluorescents specified).

**Individual Room/Area Controls**
Each room and area in the building is equipped with a separate switch or occupancy sensor device for each area with floor–to–ceiling walls.

**Uniform Reduction for Individual Rooms**
Each room or enclosed space 100 square feet or larger in which the connected lighting load exceeds 0.8 watts per square foot for the space as a whole, and that has more than one lighting fixture, is controlled with bi–level switching for uniform reduction of lighting within the space.

**Day Lit Area Control**
All rooms with window and skylights, that are greater than 250 square feet, and that allow for the effective use of daylight in the area have 50% of the lamps in each day lit area controlled by a separate switch.

**Control of Exterior Lights**
Exterior mounted fixtures which are served from the electrical panel inside the building are controlled by a time clock.

TWF #03058.00


tBP architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495
architect

CONSULTING ENGINEERS
TOFT WOLFF FARROW Inc.
282 Second Street, 3rd Floor
San Francisco, CA 94105
TEL (415) 247–8700
FAX (415) 247–8711
twfsf@twfsf.com
consultant


IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. 01-106226
DATE 1-12-05

name
address
city, state, zip
ph: fx:
agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00
file name: PANELS
drawn by: LLAI checked by: LSW
date: NOVEMBER 15, 2004

| Rev. | date | description |
|---|---|---|

drawing title:
TITLE 24 NOTES AND CALCULATIONS

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.: E-4.1

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: IBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6499

Subj.: Light attachments in drop ceiling areas

Reference (dwg, spec.): Details E & F1 sheet E-4.2

Reply Requested By: 4/4/07

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District

IBP job: 20247.00

RFI No: **507**
Subcontractor RFI:

INFORMATION REQUESTED: Date: 3/28/07

See attached from Performance Contracting regarding the installation of wires for ceiling grid. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:

No exception taken to anchor (2) slack wires from diagonal corners of the fixtures to deck above with shot in anchor (per figure no.6/5.01 (DSA IR-25) in lieu of expansion anchor per detail F/E-4.2.

This applies to fixtures less than 56 lbs.

Jim Weaver / IBP Architecture
Chiang Ng / Dasse
L. Lai / TWP.

4/4/07

RFI # 000
Page 1

04/02/2007 15:28 #459 P.001/001

PCI PERFORMANCE CONTRACTING INC

**REQUEST FOR INFORMATION**

Date: April 2, 2007
To: Mark Delfanian
Company: DPR
From: John Frameslad

PCI RFI#: 1
Fax: (925) 937-7876
Job Name: Los Medanos Science Bldg.
Job Number: 3328
SJA job #: 582

Reference: Dual Ceiling 4" cross T's

MESSAGE: Mark please confirm that shooting 2 safety wires per recessed light fixtures is acceptable. This application is in conformance with DSA IR 25-3 CEILING NOTES 1.11 Plain or recessed light fixtures and air terminals weighing less than 56 lbs., may be supported directly on the Main Runners of a heavy duty grid system but, in addition they must have a minimum (2) #12 ga. slack safety wires attached to the fixture at diagonal corners and attached to the structural ceiling.
Please see page AS.02 Figure B "3" and note 11 Metal Suspension Sys. for the Science BLDG drawings.

Also please note the most recent DSA PROJECTS in which PCI has worked with this application Contra Costa BLDG 17 (DSA APPL 01 #107911).
Contra Costa HOSPITAL (DSA APPL # 2-440 01106602).
LOS MENDOS HOSPITAL (DSA APPL 01-105024) I am list more projects but I hope these notes will suffice.

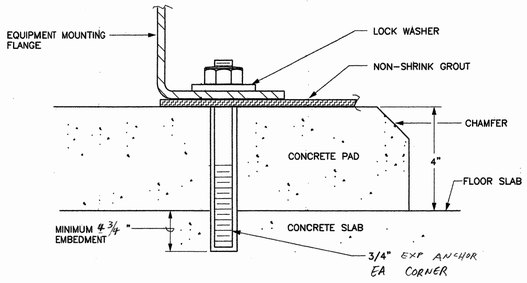
Thank you for your attention to this matter.

Reply Needed by: asap
Cost Impact / Possible Schedule Impact: Possible

REPLY:

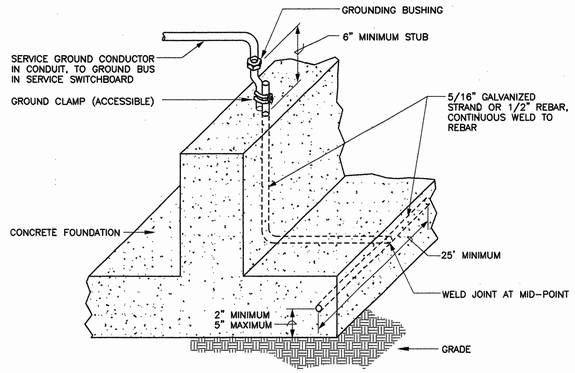
Answered by:
Date:

Performance Contracting Inc.
23486 Connecticut Street Hayward, CA 94545
Phone (510) 266-7434 Fax (510) 264-4855



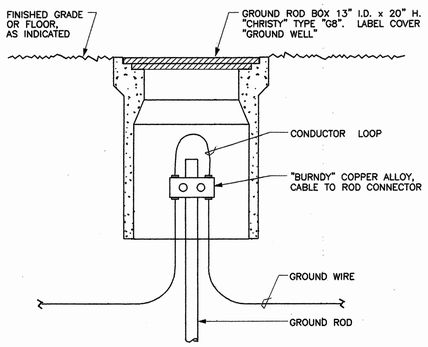

## A E4.2 SWITCHBOARD MOUNTING DETAIL

NOT TO SCALE



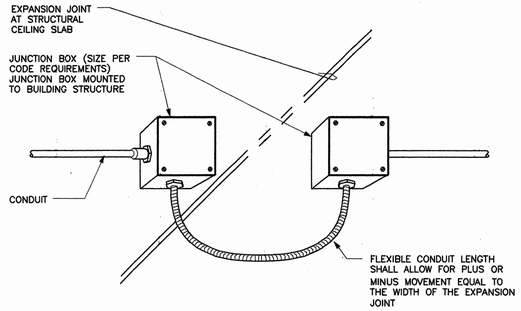

## B E4.2 UFER GROUNDING DETAIL

NOT TO SCALE



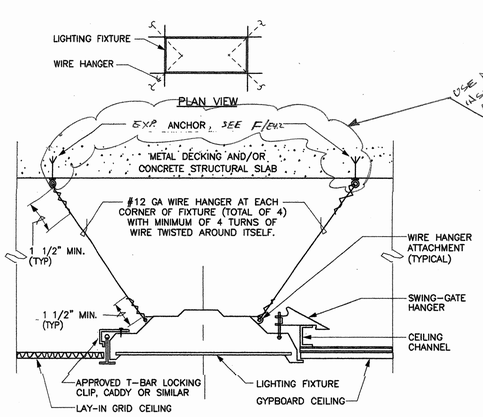

## C E4.2 GROUND WELL DETAIL

NOT TO SCALE




## D E4.2 DETAIL OF CONDUIT CROSSING AT EXPANSION JOINT

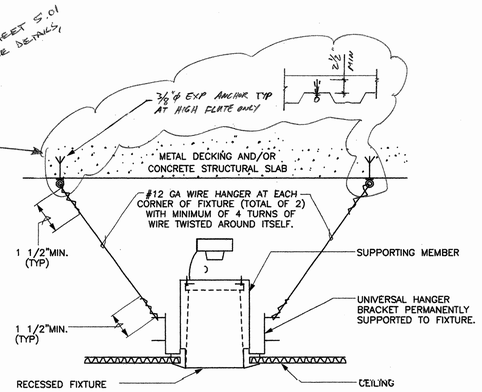
NOT TO SCALE




NOTE: MAXIMUM WEIGHT OF FIXTURE; 50 POUNDS

## E E4.2 TYPICAL RECESSED FLUORESCENT FIXTURE MOUNTING DETAIL

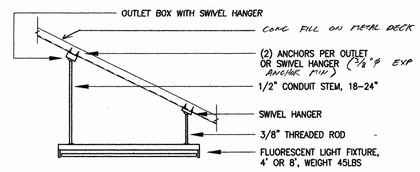
NOT TO SCALE




NOTE: MAXIMUM WEIGHT OF FIXTURE; 50 POUNDS

## F E4.2 TYPICAL RECESSED INCANDESCENT, H.I.D. OR COMPACT FLUORESCENT MOUNTING DETAIL

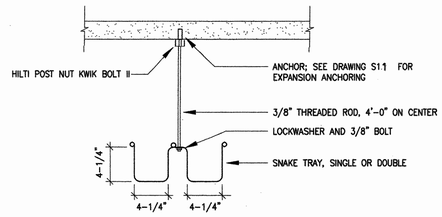
NOT TO SCALE




DETAIL SHOWN FOR SLOPED APPLICATION, SIMILAR FOR NON-SLOPED.

## G E4.2 PENDANT OR STEM MOUNT LIGHTING FIXTURE DETAIL

NOT TO SCALE

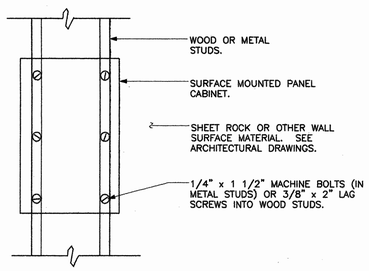



MAXIMUM LOAD: 17.6 LBS/FT

NOTE: SNAKE TRAY SHALL BE ACCESSIBLE IN CEILING SPACE. COORDINATE LOCATION WITH OTHER TRADES.

## H E4.2 SNAKE TRAY SUPPORT

NOT TO SCALE

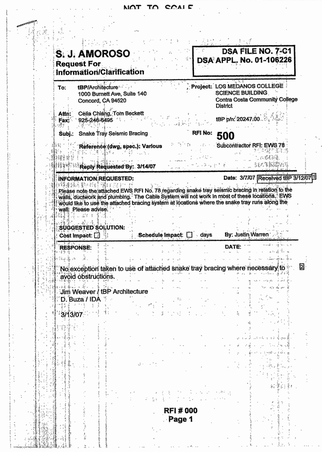



NOTES:
1. USE COMPRESSION WASHERS ON ALL BOLTS.
2. MAXIMUM PANELBOARD WEIGHT; 150 POUNDS .

## I E4.2 SURFACE MOUNTED PANELBOARD INSTALLATION DETAIL

NOT TO SCALE

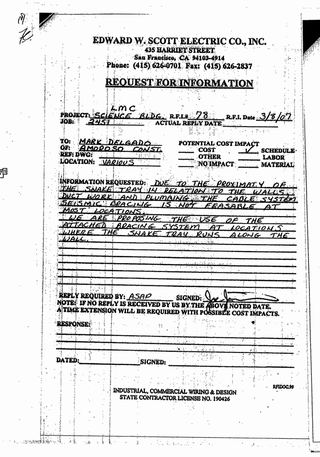
SEE RFI 339, SHEET E-0.1, FOR OVERHEAD CONDUIT FASTENERS



S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106228

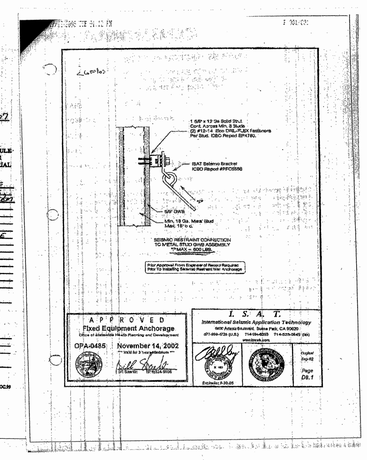
To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00
Subj.: Snake Tray Seismic Bracing
RFI No: 500
Subcontractor RFI: EWS 78
Reference (dwg, spec.): Various
Reply Requested By: 3/14/07
INFORMATION REQUESTED: Date: 3/7/07 Received tBP 3/12/07
We have note the attached EWS RFI No. 78 regarding snake tray seismic bracing in relation to the walls, ductwork and plumbing. The Cable System will not work in most of these locations. EWS would like to use the attached bracing system at locations where the snake tray runs along the wall. Please advise.
SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren
RESPONSE: DATE:
No exception taken to use of attached snake tray bracing where necessary to avoid obstructions.
Jim Weaver / tBP Architecture
D. Buza / IDA
3/13/07
RFI # 000
Page 1



EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I. # 78 R.F.I. Date 3/8/07
JOB: 2457 ACTUAL REPLY DATE:
TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG:
LOCATION: VARIOUS
POTENTIAL COST IMPACT: COST ✓ SCHEDULE; OTHER; NO IMPACT; LABOR; MATERIAL
INFORMATION REQUESTED: DUE TO THE PROXIMATY OF THE SNAKE TRAY IN RELATION TO THE WALLS, DUCT WORK AND PLUMBING THE CABLE SYSTEM SEISMIC BRACING IS NOT FEASABLE AT MANY LOCATIONS. WE ARE PROPOSING THE USE OF THE ATTACHED BRACING SYSTEM AT LOCATIONS WHERE THE SNAKE TRAY RUNS ALONG THE WALL.
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.
RESPONSE:
DATED: SIGNED:
INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190416
EF020C10




TWF #03058.00


tBP
architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

TOFT WOLFF FARROW Inc.
CONSULTING ENGINEERS
380 Second Street, 3rd Floor
San Francisco, CA 94105
TEL (415) 247-8700
FAX (415) 247-8701
twfsf@twfsf.com

consultant


VERIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. - 01-106228
ACCESS REQUIRED
DATE 1-13-05

name
address
city, state, zip
ph:
fax

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number: 20247.00
file name: DETAILS
drawn by: LLAI checked by: LSN
date: NOVEMBER 15, 2004

| rev. | date | description |
|---|---|---|

drawing title:
DETAILS

LMC SCIENCE 313-023-T12.01-0-00.00
drawing no.: E-4.2

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106225**

| | | | |
|---|---|---|---|
| To: | tBP/Architecture<br>1000 Burnett Ave, Suite 140<br>Concord, CA 94520 | Project: | LOS MEDANOS COLLEGE<br>SCIENCE BUILDING<br>Contra Costa Community College District |
| Attn: | Celia Chiang, Tom Beckett | | |
| Fax: | 925-246-6468 | | tBP p/n: 20247.00 |
| Sub.: | FA sequence of operations as relates to fume hoods<br>Reference (dwg, spec.): FA0.1 | RFI No: | **464**<br>Subcontractor RFI: |
| | Reply Requested By: 1/25/07 | | |

**INFORMATION REQUESTED:** Date: 1/18/07

Per the fire alarm sequence of operations matrix on sheet FA0.1, if a smoke detector, heat detector or smoke duct detector is triggered, the AHU's will shut down, thus stopping flow of supply air. Also, CFSO's will close, including flows on transfer air ducts.

There are 3 exhaust fans on this building to the numerous fume hoods on the project. These will NOT be shut down by the FA alarm system in the event of a fire anywhere in the building. Therefore, particularly in room 235 which will contain 17 fume hoods, there will still be exhaust from the fume hoods leaving the room, but no supply to the room.

It would seem that this negative pressure situation would hinder or even prevent egress from the room as people may not be able to open the doors to exit. We understand from another Science Building under construction by Amoroso that this will pose a huge issue of competing jurisdictions between the Fire Marshal who wants egress from the room and Dept. of Health that wants the chemical fumes exhausted from the room.

Please advise if any changes to the design are needed to address this situation.

**SUGGESTED SOLUTION:**

Cost Impact: ☐ Schedule Impact: ☐ days By: Bryan Newman

**RESPONSE:** DATE:

The (3) fume hood exhaust fans for room #235 needs to be tied into the fire alarm system via Siemens interface modules (TRI-R) and programmed to shut-off when the supply fan and fire smoke dampers for room #235 close during a fire alarm situation.

Jim Weaver / tBP Architecture
L.Lai / TWF
2/8/07

**RFI # 000**
**Page 1**

# FIRE ALARM EQUIPMENT LIST

| QTY. | MODEL NUMBER | MAKE | DESCRIPTION | CA STATE FIRE MARSHAL (CSFM) NUMBER | EXPIRATION DATE |
|---|---|---|---|---|---|
| 1 | 5000-MXL | SIEMENS | MAIN FIRE ALARM CONTROL PANEL (FACP) ANALOG/ADDRESSABLE, WITH THE FOLLOWING: | 7165-0067:144 | 06-30-05 |
| | MMB-2 | SIEMENS | MAIN CONTROL BOARD | 7165-0067:144 | 06-30-05 |
| | MPS-12 AMP | SIEMENS | POWER SUPPLY, 12 AMP | 7165-0067:144 | 06-30-05 |
| | MKB-2 | SIEMENS | DISPLAY AND KEYBOARD | 7165-0067:144 | 06-30-05 |
| | MOM-4 | SIEMENS | INTERFACE MODULE | 7300-0067:172 | 06-30-05 |
| | ALD-2I | SIEMENS | LOOP DRIVER | 7300-0067:172 | 06-30-05 |
| | NET-7 | SIEMENS | STYLE 7 NETWORK INTERFACE CARD | 7300-0067:172 | 06-30-05 |
| | SERIAL DACT | SIEMENS | SILENT KNIGHT 5128/5129 | 7300-0559:120 | 06-30-05 |
| | | | | | |
| | BTX-1 | SIEMENS | 36 AMP HOUR BATTERIES | 7165-0067:144 | 06-30-05 |
| | MSE-MME-3 | SIEMENS | ENCLOSURE FOR ALL ABOVE, AS REQUIRED | 7165-0067:144 | 06-30-05 |
| | | | | | |
| 2 | TRI-M | SIEMENS | INTERFACE MODULE, MONITORING | 7300-0067:146 | 06-30-05 |
| 54 | TRI-R | SIEMENS | INTERFACE MODULE RELAY | 7300-0067:146 | 06-30-05 |
| - | TRI-S | SIEMENS | INTERFACE MODULE SIGNAL | 7300-0067:146 | 06-30-05 |
| 19 | MSI-10B | SIEMENS | ADDRESSABLE MANUAL PULL STATION | 7150-0067:036 | 06-30-05 |
| 3 | AD11P-FP11 | SIEMENS | PHOTO-ELECTRIC DUCT DETECTOR WITH PHASE AND SAMPLING TUBE AND BASE | 3240-0067:116 | 06-30-05 |
| 141 | FP11 | SIEMENS | ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR | 7272-0067:203 | 06-30-05 |
| 141 | DB11 | SIEMENS | SMOKE DETECTOR BASE | 7300-0067:134 | 06-30-05 |
| 1 | RCC-1 | SIEMENS | REMOTE ANNUNCIATOR | 7120-0067:152 | 06-30-05 |
| 13 | FPT-11 | SIEMENS | ADDRESSABLE HEAT DETECTOR | 7272-0067:202 | 06-30-05 |
| 13 | DB11 | SIEMENS | HEAT DETECTOR BASE | 7300-0067:134 | 06-30-05 |
| 4 | PAD-3 | SIEMENS | AUXILIARY POWER SUPPLY (NAP) | 7300-0067:218 | 06-30-05 |
| 6 | DSM | WHEELOCK | SYNCHRONIZATION MODULE | 7300-0785:132 | 06-30-05 |
| | | | | | |
| 52 | NS-24MCW-FW | WHEELOCK | HORN/STROBE (15, 30, 75 OR 110 CD RATING) | 7125-0785:142 | 06-30-05 |
| 26 | RSS-24MCW-FW | WHEELOCK | STROBE (15, 30, 75 OR 110 CD RATING) | 7125-0785:141 | 06-30-05 |
| | | | | | |
| | | | | | |

# FIRE ALARM SYSTEM NOTES

**SYSTEM DESCRIPTION:**

Automatic fire alarm system utilizing addressable devices including smoke detectors, heat detectors, smoke duct detectors, manual pull stations and sprinkler system monitoring of flow and tamper devices. Notification appliances strobes and horns, with synchronization of strobes. Remote fire alarm annunciator at reception area. Connection to central station. Initiation devices shall be class A, addressable, notification appliances class B.

**GENERAL NOTES:**

1 Final Fire Alarm test will be witnessed by Local Fire Authority with the DSA Inspector of Record (IOR).
2 Underground and exterior conduits will have water-tight fittings.
3 Fire alarm Device Mounting Heights:
 Pull station: 48" to center line of device above finished floor.
 Horn Interior: 90" to top of device above finished floor, not less than 6" from ceiling.
 Wall mounted Strobe or Horn/Strobe: 80" to bottom of device and not greater than 96" above finished floor not less than 6" from ceiling.
4 Audible device(s) shall be at least 15dBA above average ambient sound level but not less than 75dBA at 10' or more than 120dBA in total, throughout!
5 Audible devices shall sound the California Uniform Fire Alarm Signal in Temporal-Three mode.
6 Visual devices shall not exceed 2 flashes per second and shall not be less than 1 flash every second.
7 All visual devices shall be synchronized.
8 Provide at least one exterior horn for buildings of E occupancies.
9 Horns shall be silenced with strobes capable of operating continuously after horns are silenced.

**APPLICABLE CODES:**

1 CBC 2002: CEC 2002; CMC 2002; CFC 2002
2 State Fire Marshal Title 19, Public Safety
3 NFPA 72, 2002 Edition w/CA Amendments, Fire Alarm Code

**SEQUENCE OF OPERATION:**

Upon activation of any alarm initiation device, (i.e. smoke detector, manual pull station, sprinkler flow device or duct smoke detector) building notification appliances shall activate, alarm signals shall be sent to the Central Station Monitoring Co., and a signal sent to shut down building ventilation equipment. Upon any trouble or abnormal condition the panel shall display the location, type of device and point status. See matrix.

**SCOPE OF FIRE ALARM WORK:**

The fire alarm system for the Science building will be a new system. The system will be addressable with the following components:

1 Fire alarm control panel with battery back up
2 Remote annunciator
3 Connection for central station.
4 Smoke detectors and duct smoke detectors
5 Monitor of sprinkler flow and tamper
6 Manual pull stations
7 Notification appliances, horns, strobes and horn/strobes
8 Shut down of ventilation equipment
9 Provisions for future networking.

## SHEET NOTES

<1> EXTEND EXISTING 1"C TO (N) FACP AND CONNECT FLOW AND TAMPER SWITCHES OF POST INDICATOR VALVE TO BUILDING FIRE ALARM CONTROL PANEL.

# FIRE ALARM GENERAL NOTES

1. MOUNT ALL VISUAL SIGNALING APPLIANCES AT 80" ABOVE FINISH FLOOR OR 6" BELOW FINISH CEILING WHICHEVER IS LOWER, PER "ADA" REQUIREMENTS.
2. ALL EQUIPMENT SHALL BE UL AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED
3. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND AUTHORITIES HAVING JURISDICTION.
4. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
5. CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC..
6. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER (SIMPLEX). FACTOR SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC.. THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE CEC AND NFPA 72.
8. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOX SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
9. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED WITH TEST SMOKE FOR ACCEPTANCE TEST AS PER THE MANUFACTURER'S INSTRUCTIONS.
10. ALL WIRING, ANNUNCIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
11. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
12. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED.
13. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD.
14. FIRE ALARM SYSTEM INSTALLATION COMPANY SHALL BE UL LISTED.
15. FIRE ALARM AS-BUILT SHOP DRAWINGS SHALL BE SIGNED BY A NICET CERTIFIED TECHNOLOGIST TO ENSURE PROPER SPECIFICATION COMPLIANCE.
16. ALL CONDUITS ARE 3/4" MINIMUM.
17. FIRE ALARM SYSTEM WERE SHOWN DIAGRAMATICALLY TO MEET REQUIRED CODES. EXACT LOCATION OF FIXTURES SHALL BE DETERMINED AND VERIFIED BY THE FIRE ALARM CONTRACTOR AND SHALL INSPECT AND PERFORMED ALL TEST FOR PROPER OPERATION OF THE SYSTEM.
18. ALL FIRE ALARM WIRING SHALL BE IN METAL RACEWAYS.
19. COORDINATE INSTALLATION OF DUCT SMOKE DETECTORS AND RELAY SHUTDOWN WITH THE MECHANICAL CONTRACTOR.
20. ALL FIRE ALARM JUNCTION BOX COVERS TO BE PAINTED RED AND MARKED WITH ADDRESS AND FUNCTION.

REQUIRED NOTES:

* THE SYSTEM SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.
* UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/IOR. THE CONTRACTOR WILL SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "DECIMETER" TO CHECK ACCEPTABLE NOISE LEVELS OF AUDIBLE DEVICES. TEST RESULTS WILL BE PROVIDED PER NFPA 72 TO ARCHITECT, DSA, INSPECTOR OF RECORD, OWNER AND TO THE LOCAL FIRE AUTHORITY.
* PENETRATIONS OF ALL FIRE-RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2. DETAILS AND DESIGN NUMBERS WILL BE PROVIDED.

# FIRE ALARM DEVICE ADDRESSES

| | | ADDRESS | DEVICES |
|---|---|---|---|
| LOOP A | 1ST FLOOR PART 'A' | A1 THRU AX | 1st FLOOR PART A INITIATION DEVICES |
| | | A61 THRU AXX | 1st FLOOR PART A CONTROL DEVICES |
| | | | |
| LOOP B | 1ST FLOOR PART 'B' | B1 THRU BX | 1st FLOOR PART B INITIATION DEVICES |
| | | B61 THRU BXX | 1st FLOOR PART B CONTROL DEVICES |
| | | | |
| LOOP C | 2ND FLOOR PART 'A' | C1 THRU CX | 2nd FLOOR PART A INITIATION DEVICES |
| | | C61 THRU CXX | 2nd FLOOR PART A CONTROL DEVICES |
| | | | |
| LOOP D | 2ND FLOOR PART 'B' | D1 THRU DX | 2nd FLOOR PART B INITIATION DEVICES |
| | | D61 THRU DXX | 2nd FLOOR PART B CONTROL DEVICES |
| | | | |
| | | | |

CONNECT TO LOOP 1 AND 2, MAXIMUM 60 INITIATION AND 60 CONTROL DEVICES PER LOOP. ACTUAL ADDRESS NUMBERS TO BE INDICATED IN SHOP DRAWINGS

# FIRE ALARM SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| FACP | MAIN FIRE ALARM CONTROL PANEL, ANALOG/ADDRESSABLE |
| FATC | FIRE ALARM TERMINAL CABINET |
| NAP | NOTIFICATION APPLIANCE POWER SUPPLY |
| ANN | REMOTE FIRE ALARM ANNUNCIATOR PANEL |
| F | ADDRESSABLE MANUAL PULL STATION |
| SD | ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR |
| MR | MULTI-VOLTAGE CONTROL RELAY |
| (15) F 1-1 | STROBE (15) = 15 CANDELLA TYP. – 1-1 INDICATES APPLIANCE #1 ON CIRCUIT #1 |
| (75) H 1-2 | HORN/STROBE (75) = 75 CANDELLA TYP. – 1-2 INDICATES APPLIANCE #1 ON CIRCUIT #2 |
| (75) F 1-3 | STROBE (110) = 110 CANDELLA TYP. – 1-3 INDICATES APPLIANCE #1 ON CIRCUIT #3 |
| —FA— | FIRE ALARM WIRING IN CONDUIT |
| —FN— | FIRE ALARM NOTIFICATION WIRING IN CONDUIT |
| WP H 2-1 | WEATHERPROOF HORN<br>2-1 INDICATES APPLIANCE #2 ON CIRCUIT #1 |
| SF ST | SPRINKLER FLOW AND SPRINKLER TAMPER SWITCH |
| TS | TAMPER SWITCH AT FIRE DEPT. CONN. DETECTOR CHECK |
| DD | ADDRESSABLE DUCT SMOKE DETECTOR WITH SAMPLING TUBES |
| DD LV | ADDRESSABLE DUCT SMOKE DETECTOR – LOW VELOCITY DUCT MOUNTED |
| ⌖ | REMOTE INDICATOR LIGHT FOR DUCT DETECTOR |
| SF | FIRE SMOKE DAMPER – 120 VOLT |
| HD | ADDRESSABLE HEAT DETECTOR |
| IM S | INTERFACE MODULE; SIGNAL |
| IM M | INTERFACE MODULE; MONITOR |
| IM R | INTERFACE MODULE; RELAY |
| EOL | END OF LINE RESISTOR |
| 1A1, ETC. | ADDRESS NUMBER,-LOOP 1A, DEVICE #1 |
| A, B, C ETC. | WIRING TYPE; SEE FIRE ALARM WIRING LEGEND |

FOR ADDITIONAL SYMBOLS SEE DWG. EO-1.

# FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

| DEVICE ACTION | INITIATION DEVICES: MANUAL PULL STATION | SMOKE DETECTOR HEAT DETECTOR * | SMOKE DUCT DETECTOR | SPRINKLER WATER FLOW | SPRINKLER WATER TAMPER |
|---|---|---|---|---|---|
| SOUND CONTROL PANEL TROUBLE BUZZER | ON WIRING FAULT | ON WIRING FAULT | ON WIRING FAULT | ON WIRING FAULT | ON WIRING FAULT |
| ACTIVATE RELAY FOR MONITORING (ALARM OR TROUBLE) | YES | YES | YES | YES | YES |
| ANNUNCIATE AT FIRE ALARM CONTROL PANEL (ALARM OR TROUBLE) | YES | YES | YES | YES | TROUBLE ONLY |
| ANNUNCIATE AT REMOTE FIRE ALARM ANNUNCIATOR (ALARM OR TROUBLE) | YES | YES | YES | YES | TROUBLE ONLY |
| SEND SIGNAL TO CENTRAL STATION SERVICE CO. | YES | YES | YES | YES | YES |
| ACTIVATE AUDIBLE / VISUAL ALARM SIGNAL THROUGHOUT BUILDING | YES | YES | YES | YES | NO |
| SHUTDOWN AIR HANDLING UNITS (HVAC) SEE EF4.61 | NO | YES | YES | NO | NO |
| SHUTDOWN FIRE/SMOKE DAMPERS | YES | YES | YES | YES | NO |
| NOTIFY CAMPUS SECURITY VIA CENTRAL STATION | YES | YES | YES | YES | YES |
| * ELEVATOR POWER SHUNT TRIP | | YES | | | |

# WIRING SCHEDULE

| SYMBOL | FOR | NUMBER OF CONDUCTORS |
|---|---|---|
| **A** | (NOTIFICATION DEVICES) STROBES, HORN STROBES, HORNS | 2 #12 |
| **B** | (ADDRESSABLE DEVICE INITIATION) SMOKE OR DUCT DETECTORS, PULL STATIONS | 1 #16 TSP |
| **C** | 120 VOLT POWER | 2 #12, 1#12G |
| **D** | 120V SMOKE DAMPER POWER | 2 #12, 1#12G |
| **E** | 120V SMOKE DAMPER POWER & INDICATOR | 3 #12, 1#12G |
| **F** | DEVICE POWER – 24V | 2 # 14 |
| **G** | DATA LINE – SERIAL COMMUNICATIONS | 1 # 18 TSP |

NOTE: ***2A = TWO CABLES, 3A = THREE CABLES, ETC.***

WIRING NOTES:

1. MINIMUM CONDUIT SIZE: 3/4".
2. CONDUIT TO BE SIZED FOR 40% FILL PER N.E.C.
3. ALL 120 VOLT WIRING SHALL RUN IN SEPARATE CONDUDIT.
4. TWISTED SHIELDED CABLE SHALL BE WEST PENN 1991 NPLF (A), EXTERIOR SHALL BE WEST PENN AQ293 FPL/PLTC (B).

# FIRE ALARM FACP BATTERY CALCULATIONS

BASED ON Siemens MXL PANEL

Project: Contra Costa Community College, San Ramon, CA

| Siemens # | QTY | Standby Current | Alarm Current | Standby Total | % In Alarm | Alarm Total |
|---|---|---|---|---|---|---|
| MMB-2 Main Board | 1 | 0.1750 | 0.1750 | 0.175 | 100% | 0.175 |
| ALD-2i Loop (1.1mA per device) | 2 | 0.1050 | 0.2400 | 0.210 | 100% | 0.480 |
| MOM-4 | 1 | 0.0000 | 0.0000 | 0.000 | 100% | 0.000 |
| MKB-2 Control Keypad Annunciator | 1 | 0.0050 | 0.0050 | 0.005 | 100% | 0.005 |
| RCC-1F Remote command center | 1 | 0.0750 | 0.0750 | 0.075 | 100% | 0.075 |
| 5128 Digital Fire Communicator | 1 | 0.0840 | 0.1540 | 0.084 | 100% | 0.154 |
| TRI - Devices (Interface Modules) | 53 | 0.0016 | 0.0016 | 0.085 | 100% | 0.085 |

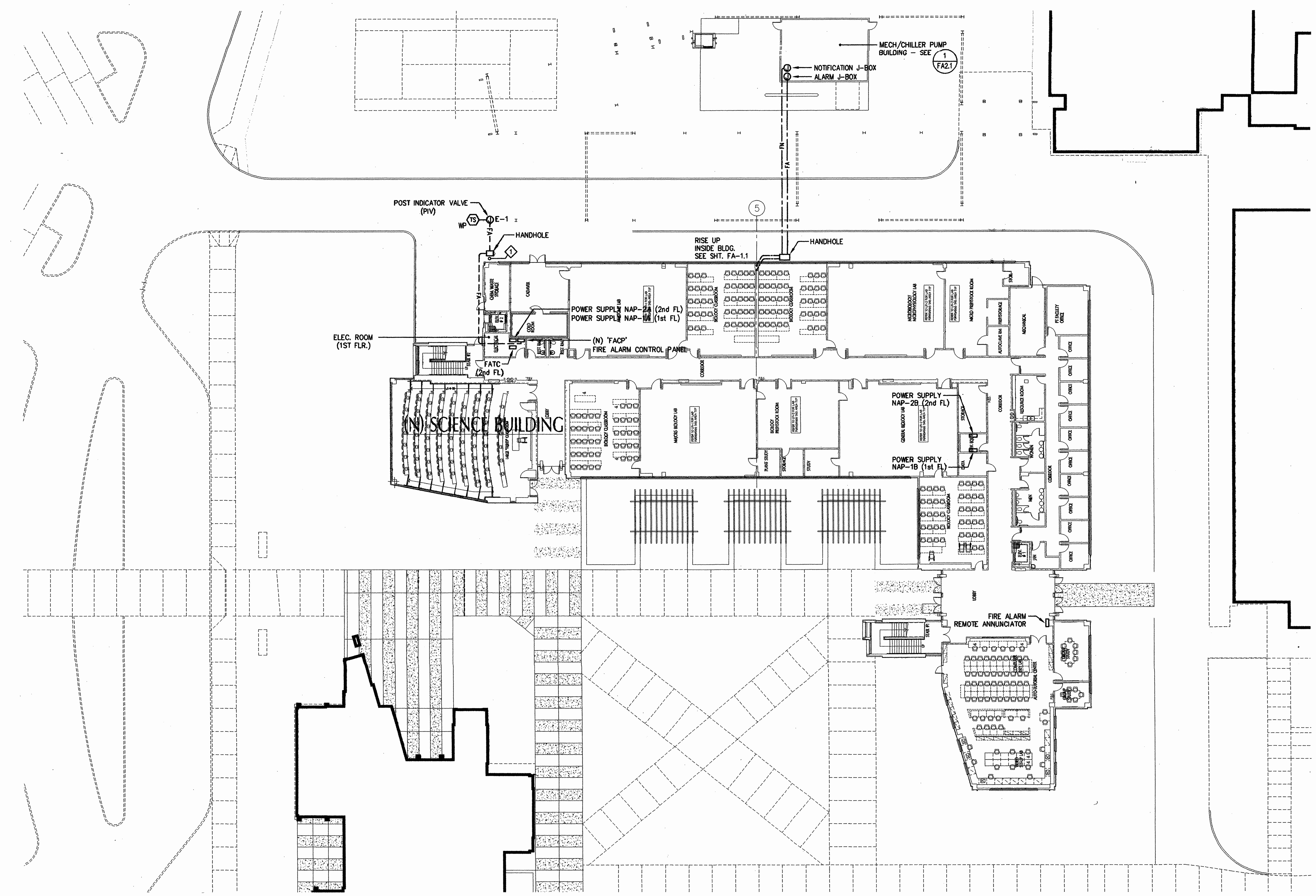
TOTAL STANDBY 0.634

TOTAL ALARM 0.974

| | | | | | |
|---|---|---|---|---|---|
| HOURS OF STAND-BY | 24 | 0.6338 | | 15.2112 | TOTAL STANDBY |
| MINUTES IN ALARM (5) | 5 | 0.9738 | 0.0833 | 0.0812 | ALARM A.H. |
| | | | | 15.2924 | SUB-TOTAL |
| | | | | X 1.25 | |
| | | | | 19.1154 | TOTAL A.H. NEEDED |

**Note: ALD-2i calculated at max number of devices/loop**

Provide 36 amp hour batteries




## SITE PLAN

SCALE: 1" = 20'-0"

CAMPUS NORTH

TRUE NORTH


tBP architecture planning interiors management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

LICENSED ARCHITECT RICHARD A. MANGUM, AIA. NO. C-8885 REN. 12-31-05 STATE OF CALIFORNIA

architect

CONSULTING ENGINEERS
TOFT WOLFF FARROW Inc.
282 Second Street, 3rd Floor
San Francisco, CA 94105
TEL (415) 247-8700
FAX (415) 247-8711
twfsf@twfsf.com

REGISTERED PROFESSIONAL ENGINEER LAWRENCE S. WOLFF No. 7690 ELECTRICAL STATE OF CALIFORNIA

consultant


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. 01-106225
AC FLS SS
DATE 1-12-05

name
address
city, state, zip
ph: fx:

agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

file name:

drawn by: LLAI checked by: LSW

date: NOVEMBER 15, 2004

| Rev. | date | description |
|---|---|---|
| | | |

drawing title:

SITE PLAN - SCHEDULES, FIRE ALARM

LMC SCIENCE 313-023-112.01-0-00.00

drawing no.: FA0.1

TWF #03058.00

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College Dist/ict

IBP p/n: 20247.00

Subj.: Fire Alarm Devices in Rooms 130, 131, 132

RFI No: **369**
Subcontractor RFI: EWS 39

Reference (dwg, spec.): FA-1.1, FA-1.2

Reply Requested By: 10/11/06

INFORMATION REQUESTED: Date: 10/4/06

Please note the attached EW Scott RFI 39 regarding the door framing in rooms 130, 131 and 132 which are impeding the installation of the Fire Alarm Devices as shown. A sketch is attached for possible alternate locations.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

TWF has no objection to devices 'A1-6' and 'A1-7' being relocated to the proposed locations (indicated in RFI#369), but recommends that device 'A1-5' be relocated to a ceiling mounted type of device due to possible view obstruction from the cabinet along the south wall.

Larry Lal/TWF - 10/9/06

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

## REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. RFI# 39 R.F.I. Date 10-2-06
JOB: 2421 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: FA-1.1 & FA-1.2
LOCATION: RMS. 130, 131 & 132.

POTENTIAL COST IMPACT
___ COST ✓ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: DUE TO THE DOOR FRAMING IN ROMS. 130, 131 & 132 WE ARE UNABLE TO INSTALL THE FIRE ALARM DEVICES AS SHOWN. PLEASE SEE ATTACHED SKETCH FOR POSSIBLE ALTERNATE LOCATIONS.

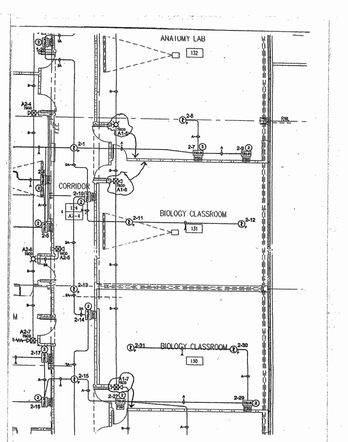
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426




**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College Dist/ict

IBP p/n: 20247.00

Subj.: Fire Alarm Pull Station in Lecture Hall

RFI No: **431**
Subcontractor RFI: EWS 62

Reference (dwg, spec.): FA-1.1

Reply Requested By: 12/7/06

INFORMATION REQUESTED: Date: 11/30/06

Please note the attached EWS RFI No. 62 regarding the Fire Alarm Pull Station in the Lecture Hall that needs to be relocated due to wall framing. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

RESPONSE: DATE:

No exception taken to the revised location indicated.
Please coordinate with other devices along the wall such as zone switch and some lighting control unit.

Jim Weaver/IBP Architecture
LLal/TWF

12/6/06

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

## REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. RFI# 62 R.F.I. Date 11/28/06
JOB: 2421 ACTUAL REPLY DATE:

TO: MARK DELGADO
OF: AMOROSO CONSTRUCTION
REF. DWG: FA-1.1
LOCATION: LECTURE HALL RM 141

POTENTIAL COST IMPACT
___ COST ✓ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: WE ARE UNABLE TO INSTALL THE F.A. PULL STATION AS SHOWN DUE TO WALL FRAMING. WE ARE PROPOSING TO RELOCATE THE PULL STATION AS SHOWN ON THE ATTACHED SKETCH.

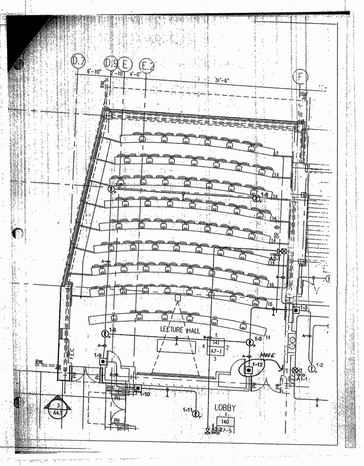
REPLY REQUIRED BY: 12/7/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

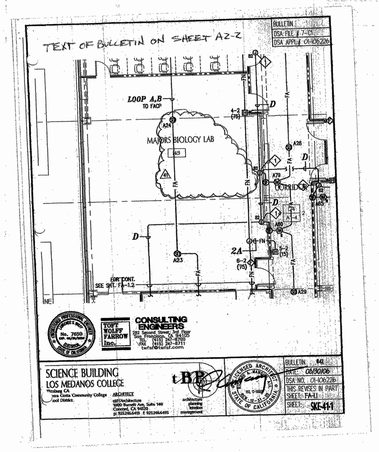
DATED: SIGNED:

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426




TEXT OF BULLETIN ON SHEET A2-2



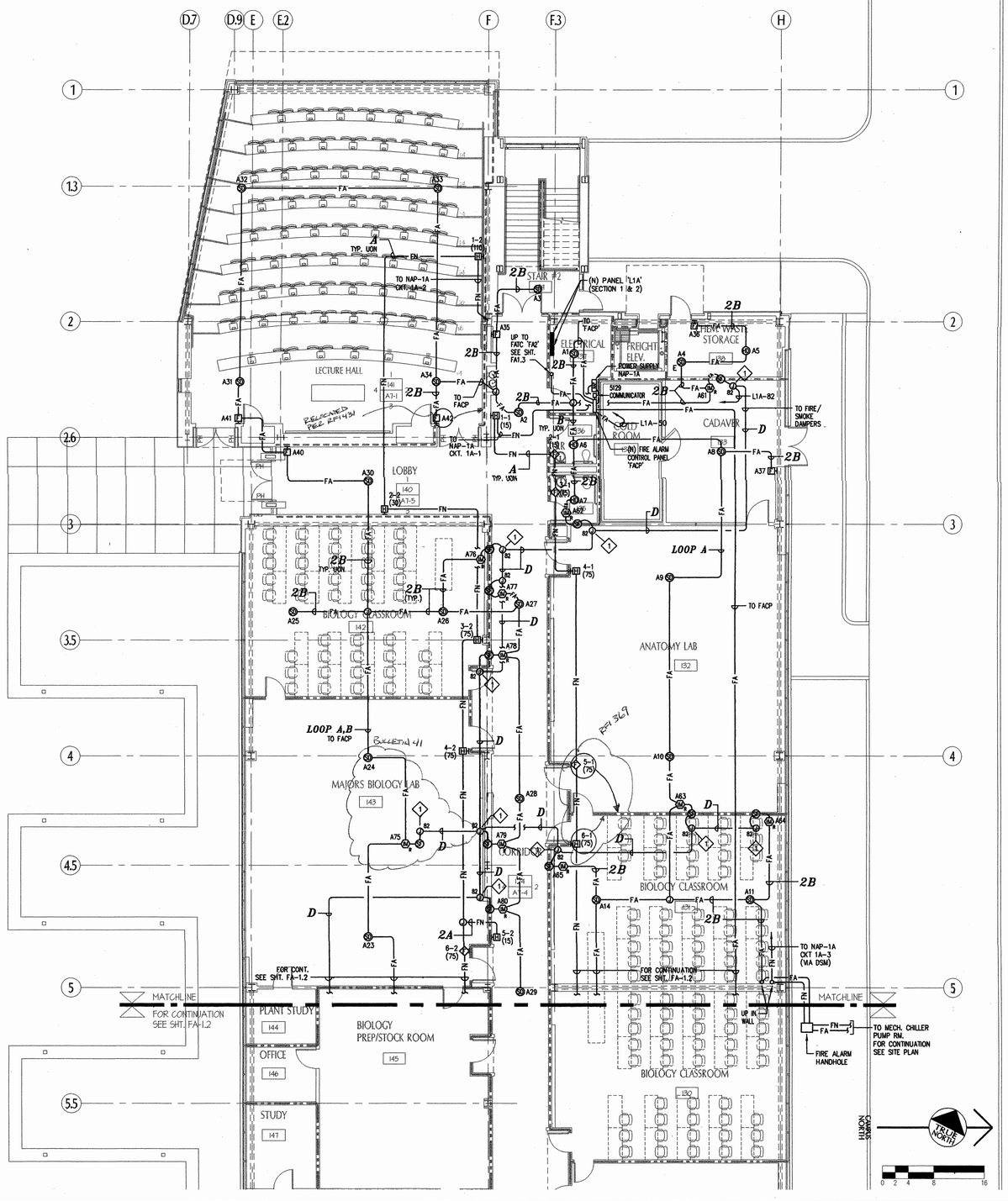

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

tBP

DATE: 06/05/06
DSA NO. 01-106226
NOC REVISED IN PART
SHEET: FA-2.1
SHEET: SKE-494

Los Medanos College
4CD Proj.# : L-565-B-23-SC
**Science Building**




1ST FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"

1

## SHEET NOTES:

1. 120V JUNCTION BOX FOR FIRE SMOKE DAMPER. DAMPER INSTALLED UNDER MECHANICAL SECTION, WIRED COMPLETE UNDER ELECTRICAL SECTION. VERIFY LOCATION WITH MECHANICAL.
2. FP-11 FIRE DETECTORS CAN BE APPLIED WITHIN THE MAXIMUM 30 FOOT CENTER SPACING (900 sq. ft. area) AS REFERENCED IN NFPA 72.

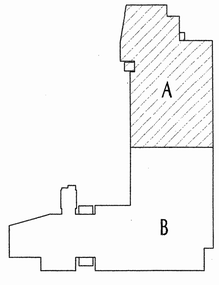
## WALL TYPES

1-HR FIRE RATED ASSEMBLY

1-HR FIRE RATED ASSEMBLY
(OCCUPANCY SEPARATION)

2-HR FIRE RATED ASSEMBLY
(AT CHEMICAL WASTE STORAGE ONLY)

## KEY PLAN




TWF #03058.00

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San Francisco Bay Area 94105
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FAX (415) 247-8771
twfs@twfsf.com

consultant

DEPARTMENT OF STATE ARCHITECT
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL - 09.NA0206
Date: 1-13-05

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

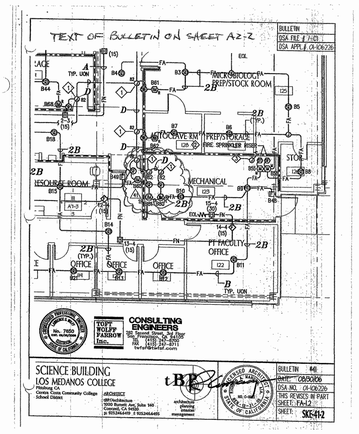
owner

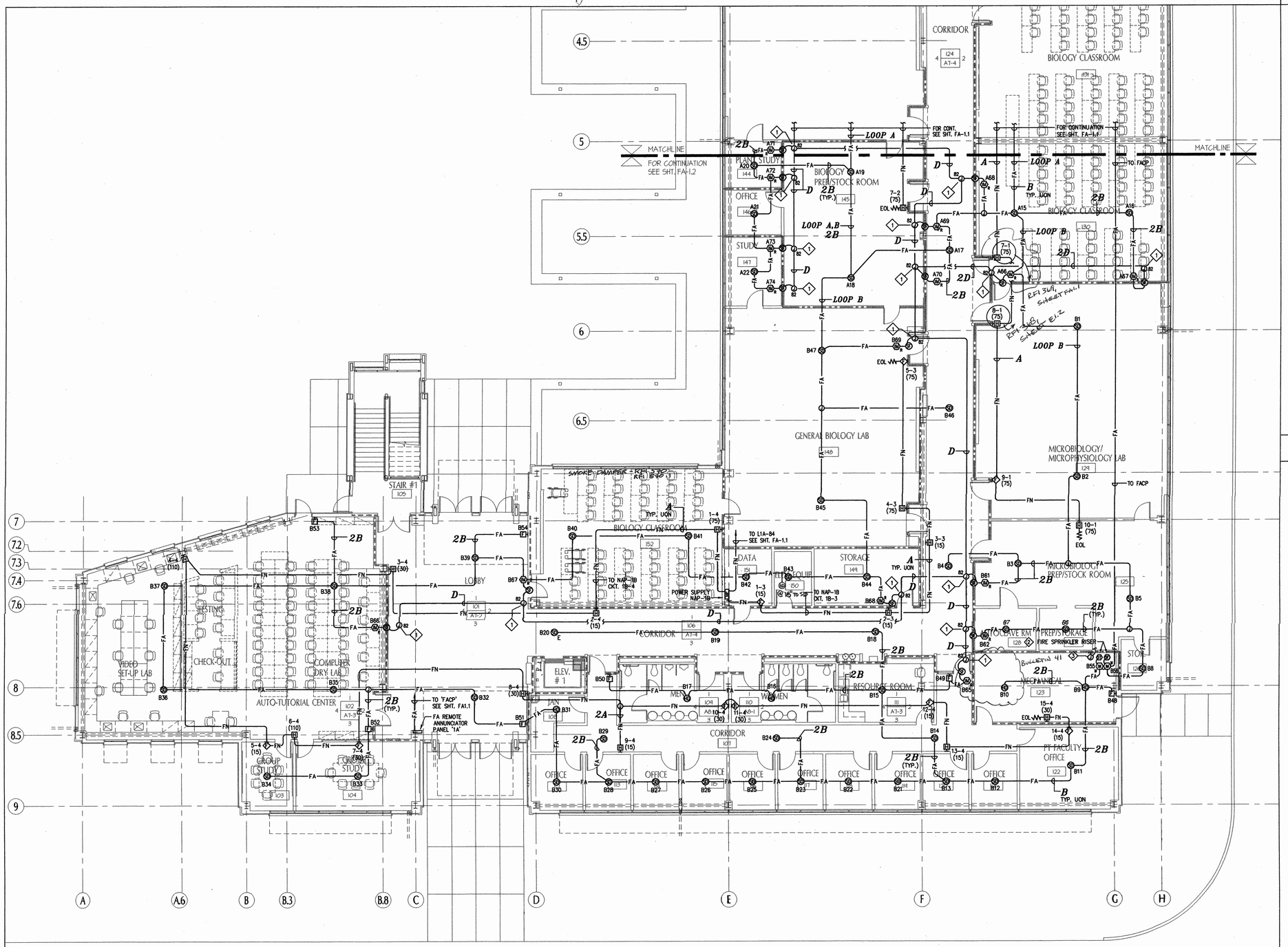
tBP project number : 20241.00
file name: 1s-FLR-A
drawn by: LLAI checked by: LSH
date: NOVEMBER 15, 2004

| Rev | date | description |
|---|---|---|
| | | |

drawing title:
1st FLOOR PLAN
PART "A" - FIRE ALARM

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.:
FA-1.1


TEXT OF BULLETIN ON SHEET A2.2
BULLETIN
DSA FILE # 7-120
DSA APPL # 01-106-226
BIOLOGY/GEOLOGY PREP/STOCK ROOM
AUTO SAVE 834
PREP/STORAGE
FIRE SPRINKLER RISER
RESOURCE ROOM
MECHANICAL
STOR
FT FACULTY OFFICE
OFFICE
TYP. UON
TOPF WOLFF FARROW Inc.
CONSULTING ENGINEERS
SCIENCE BUILDING
LOS MEDANOS COLLEGE
Contra Costa Community College District
BULLETIN 46
DATE 08/09/06
DSA NO. 01-106-226
THIS REVISES IN PART
SHEET: PA-2.2
SHEET: SES-412




1ST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"

1

## SHEET NOTES:

1. 120V JUNCTION BOX FOR FIRE SMOKE DAMPER. DAMPER INSTALLED UNDER MECHANICAL SECTION, WIRED COMPLETE UNDER ELECTRICAL SECTION. VERIFY LOCATION WITH MECHANICAL.
2. VERIFY LOCATION AND CONNECTIONS WITH SPRINKLER CONTRACTOR.
3. JUNCTION BOX FOR 120V ALARM GONG (BY OTHERS). GONG LOCATED EXTERIOR TO RISER ROOM (SEE MECHANICAL DRAWINGS) LEAVE 6" PIGTAIL AT JUNCTION BOX.
4. FP-11 FIRE DETECTORS CAN BE APPLIED WITHIN THE MAXIMUM 30 FOOT CENTER SPACING (900 sq. ft. area) AS REFERENCED IN NFPA 72.

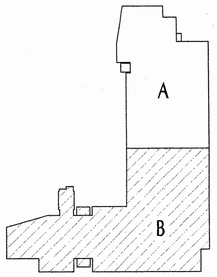
## WALL TYPES

1-HR FIRE RATED ASSEMBLY

1-HR FIRE RATED ASSEMBLY (OCCUPANCY SEPARATION)

2-HR FIRE RATED ASSEMBLY (AT CHEMICAL WASTE STORAGE ONLY)

## KEY PLAN




TWF #03058.00


tBP
architecture
planning
interiors
management

LICENSED ARCHITECT
STATE OF CALIFORNIA
Ramsey

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architect

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STATE OF CALIFORNIA

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FAX (415) 247-8711
twfsf@twfsf.com

TOFT WOLFF FARROW Inc.

consultant

DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATORY SERVICES
APPR. - 15/05/05
DATE 1-11-05

name
address
city, state, zip
ph: fx:

agency


# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

file name: 1s-FLR-A

drawn by: LLAI checked by: LSM

date: NOVEMBER 15, 2004

| Key | date | description |
|---|---|---|

drawing title:

1st FLOOR PLAN
PART "B" - FIRE ALARM

LMC SCIENCE 313-023-112.01-0-00.00

drawing no:

FA-1.2

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: BIP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Subj.: Fire Shutter Door

Reference (dwg, spec.): FA-1.3

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District

ISP p/n: 20247.00

RFI No: **419**
Subcontractor RFI: EWS 57

**Reply Requested By: 11/6/06**

**INFORMATION REQUESTED:** Date: 10/31/06

Please note the attached EWS RFI No. 57 regarding the Fire Shutter Door which is referred to E2.3 from FA-1.3 but is not indicated anywhere on E2.3. Please advise.

**SUGGESTED SOLUTION:**
Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

**RESPONSE:** **DATE:**

Per phone conservation with Joe/EWS, he is not aware of Bulletin 823(Revised 8/16/06), that the Fire shutter door is manual operated per the Bulletin, see attached for reference.

Vanessa Ling/SBP - 11/3/06

RFI # 000
Page 1

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**EDWARD W. SCOTT ELECTRIC CO., INC.**
425 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 57 R.F.I. Date 10/30/06
JOB: 2751 ACTUAL REPLY DATE _____

TO: MARK DELGADO
OF: AMOROSO CONST.
REF DWG: FA-1.3
LOCATION: EM 236

POTENTIAL COST IMPACT
___ COST ___ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: FIRE ALARM DWG. FA-13 REFERS TO ELEC DWG E2.3 IN REGARDS TO THE FIRE SHUTTER DOOR. WE WERE UNABLE TO FIND ANYTHING RELATIVE TO THE FIRE SHUTTER DOORS ON E2.3. PLEASE REVIEW AND ADVISE.

REPLY REQUIRED BY: 11/7/06 SIGNED: [signature]
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: _____ SIGNED: _____

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190436

RFIDOC39

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11/25/2005 11:25 DSR P.02/03

E-MAILED 8/11/06

**Bulletin No.23 (Revised 8/01/06)**

Authorized Plans Control Designation

Date: 8/1/2006

To: S.J. Amoroso Construction
390 Bridge Parkway
Redwood shores CA 94065

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District
DSA No. 01-106226; File # 7-C1
ISP P/N: 20247.00

Description: REFERENCE: RFI #419, Submittal #43, 4b, Specification Section 08331, Sheets SFA.05, FA.01, 19A25B.R3

The Coiling Counter Door and 1HM25 between Chemistry Prep/Stock Room #236 and Corridor #234 are revised as followings.

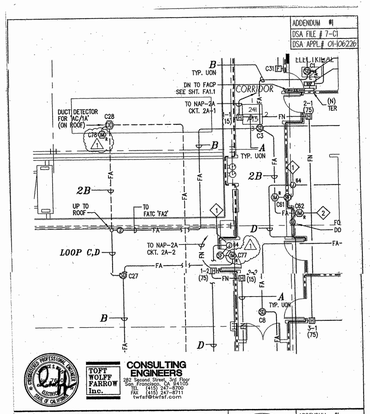
1. 1HM 25 Installing sliding by pass window are deleted, provide credit. Reference to 19A25B.R5.
2. 1 hour rated motor door in Contract Documents in this location is replaced by normal coiling door by Cornell Iron Work. Provide credit to the deleted 1 hour rated motor door in Contract Documents. Reference to Spec section 08331.
3. New 1-hour rated Coiling Door is to be by Cornell Iron Work- "Built-in Counter Fire Door with Frame" ULI# CDWT2020R6 with Automatic Activation (UL# SZNT2R980, 16 GA with #4 stainless steel finish push up door with built-in counter.
4. Partial epoxy counter in front of 1HM25 in Prep/Stock Room #236 is deleted. See attached revised sheet 7SFmSubmittal #43 for details. Provide credit for the deleted epoxy counter.
5. 1-hour rated plastic laminate counter per detail 20A.05 in Contract Documents is replaced with 1-hour rated 16 GA - #4 finish stainless steel counter by Cornell Iron Work. New counter is integrated with coiling door. Provide credit to the deleted 1-hour plastic laminate counter.

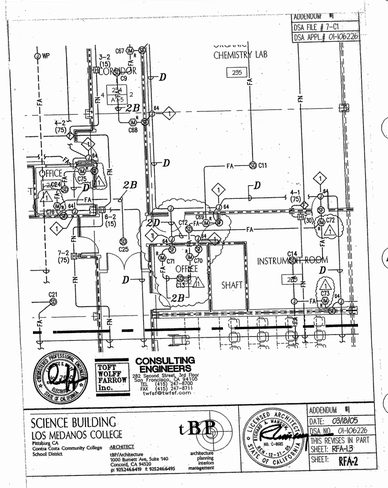
See the attached SKA-23.1B SKA-23.2 and SKA-23.3 for details. Provide submittal for 1-hour coiling door with integrated counter and Automatic Activation.

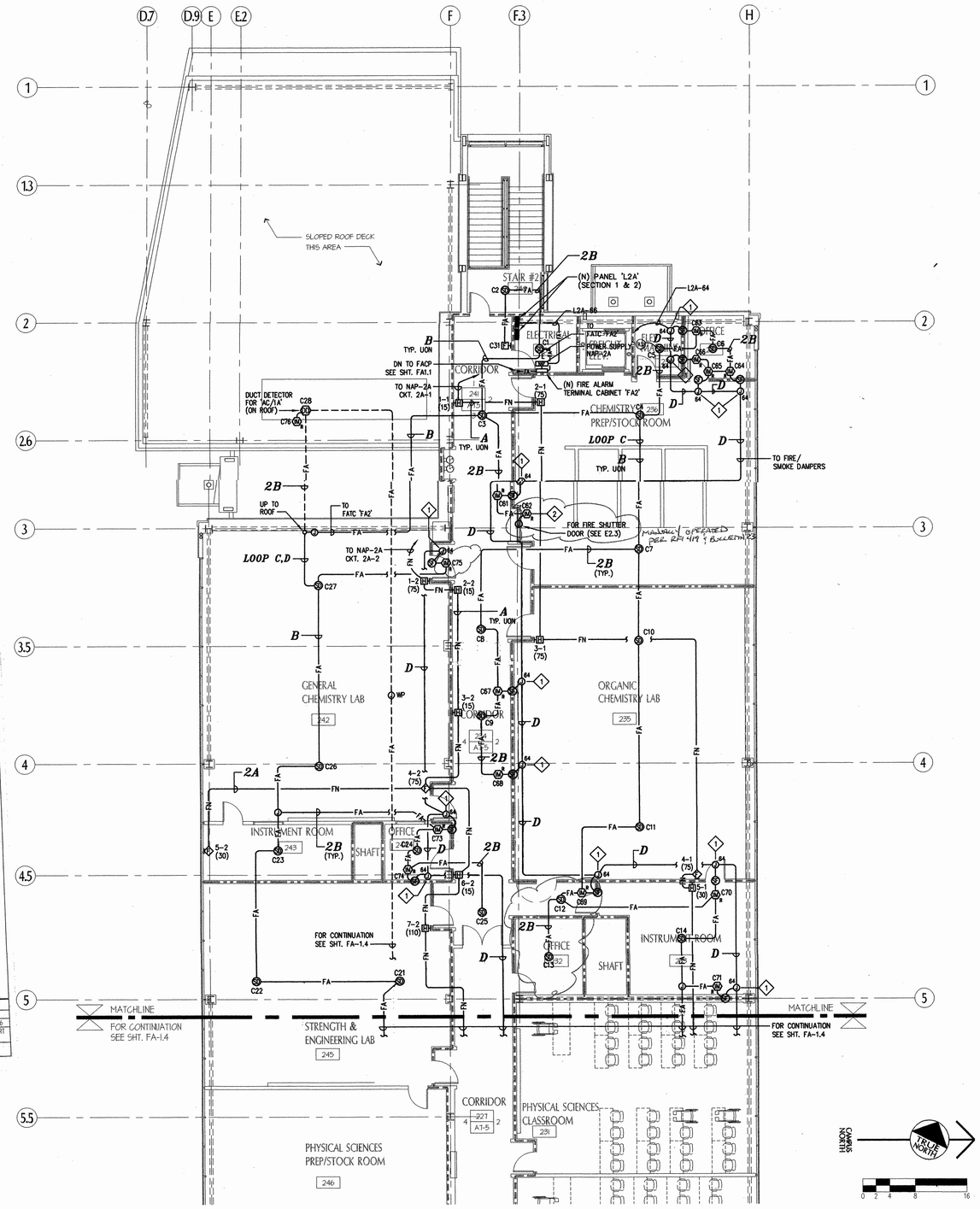
Issued By: Architect
Requested By: Architect, Owner
Reason: Coordination to Coiling Counter Door
Enclosures: SKA-23.1B, SKA-23.2 and SKA-23.3, sheet SFmSubmittal #43

APPROVED DSA, OFFICE OF THE STATE ARCHITECT
NO. 106226 APPL. NO. 01-106226 DATE 08/01/2006

BIP/Architecture 1000 Burnett Ave. Suite 140 Concord, CA. 94520 ph: 925.246.6495 fax: 925.246.6495




2ND FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"

1

## SHEET NOTES:

1. 120V JUNCTION BOX FOR FIRE SMOKE DAMPER. DAMPER INSTALLED UNDER MECHANICAL SECTION, WIRED COMPLETE UNDER ELECTRICAL SECTION. VERIFY DAMPER LOCATION WITH MECHANICAL DWG'S.
2. MODULE TO TIE INTO ROLL-UP FIRE SHUTTER DOOR. DOOR TO UNDER ANY FIRE ALARM CONDITION.
3. FP-11 FIRE DETECTORS CAN BE APPLIED WITHIN THE MAXIMUM 30 FOOT CENTER SPACING (900 sq. ft. area) AS REFERENCED IN NFPA 72.

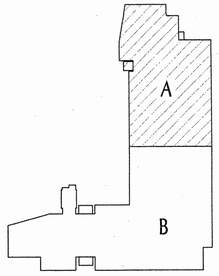
## WALL TYPES

1-HR FIRE RATED ASSEMBLY

1-HR FIRE RATED ASSEMBLY
(OCCUPANCY SEPARATION)

2-HR FIRE RATED ASSEMBLY
(AT CHEMICAL WASTE STORAGE ONLY)

## KEY PLAN




TWF #03058.00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architect

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282 Second Street, 3rd Floor
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FAX (415) 247-8711
twf@twf.com
TOFT WOLFF FARROW Inc.
consultant

name
address
city, state, zip
ph: fax
agency


# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

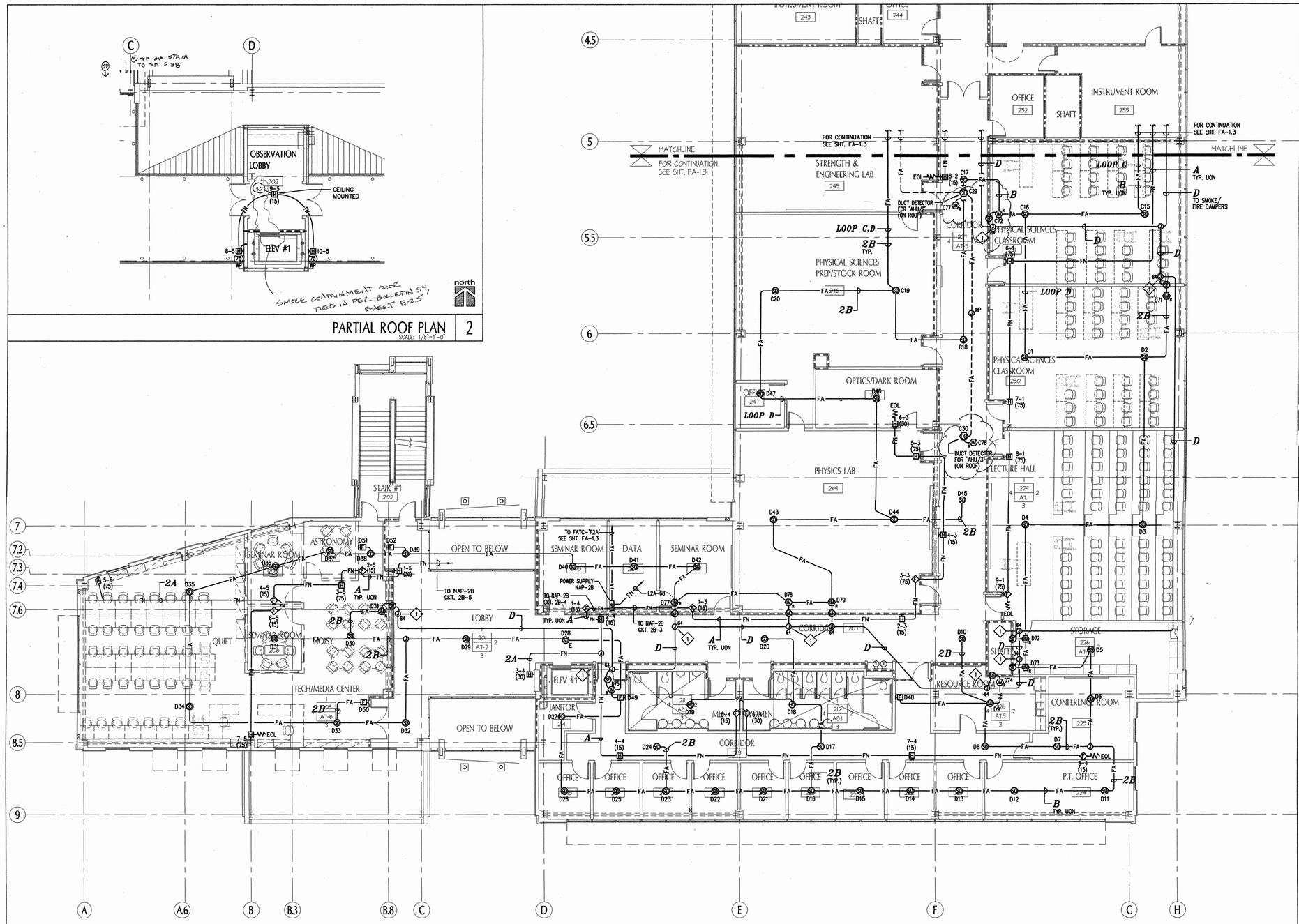
owner

tBP project number: 202471.00
file name: 1s-FLR-A
drawn by: LLAI checked by: LSM
date: NOVEMBER 15, 2004

| Rev | date | description |
|---|---|---|

drawing title:
2nd FLOOR PLAN
PART "A" - FIRE ALARM

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.
FA-1.3

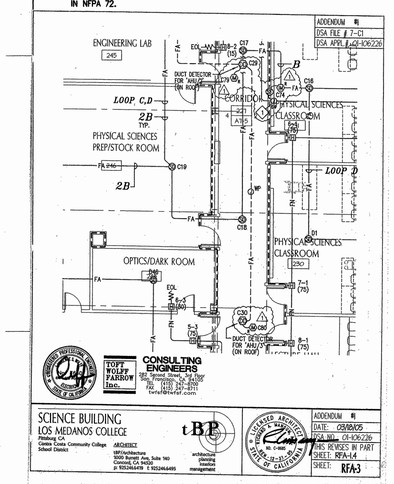



PARTIAL ROOF PLAN 2
SCALE: 1/8"=1'-0"

2ND FLOOR PLAN PART "B" 1
SCALE: 1/8"=1'-0"

## SHEET NOTES:

1. SIGNAL JUNCTION BOX FOR FIRE SMOKE DAMPER. DAMPER INSTALLED UNDER MECHANICAL SECTION, WIRED COMPLETE UNDER ELECTRICAL SECTION. VERIFY DAMPER LOCATIONS WITH MECHANICAL DWG'S.
2. FP-11 FIRE DETECTORS CAN BE APPLIED WITHIN THE MAXIMUM 30 FOOT CENTER SPACING (900 sq. ft. area) AS REFERENCED IN NFPA 72.



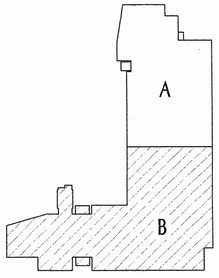

## WALL TYPES

1-HR FIRE RATED ASSEMBLY

1-HR FIRE RATED ASSEMBLY
(OCCUPANCY SEPARATION)

2-HR FIRE RATED ASSEMBLY
(AT CHEMICAL WASTE STORAGE ONLY)

## KEY PLAN




TWF #03058.00

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Oakland, CA 94607
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twfsf@twfsf.com

TOFT WOLFF FARROW Inc.

consultant

EXPIRATION START
DSA, DIVISION OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP. - 01/10/05
AC RS SS
DATE

name
address
city, state, zip
ph: fax

agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

file name: 2n-FLR-A

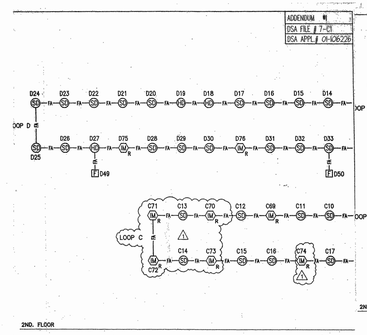
drawn by: LLAI checked by: LSM

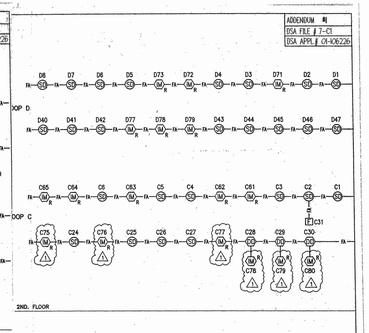
date: NOVEMBER 15, 2004

| Key | date | description |
|---|---|---|

drawing title:
2nd FLOOR PLAN
PART "B" - FIRE ALARM

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
FA-1.4

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twfa@twfaf.com

SCIENCE BUILDING
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Pittsburg CA
Contra Costa Community College School District
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tBP
architecture planning interiors management

ADDENDUM #1
DATE: 05/08/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RFA-2j
SHEET: RFA-4

TOFF WOLFF FARROW Inc.
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SCIENCE BUILDING
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tBP
architecture planning interiors management

ADDENDUM #1
DATE: 05/08/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RFA-2j
SHEET: RFA-5

11/13/06 Sent via Fax Lockett

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture
1500 Burnett Ave, Suite 540
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Subj.: Dedicated Phone Line at the Fire Alarm Control Panel
Reference (dwg, spec.): FA2.1/T2.0

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

tBP p/n: 20247.00

RFI No: **389**
Subcontractor RFI: EWS 44

**Reply Requested By: 10/26/06**

**INFORMATION REQUESTED:** **Date:** 10/19/06

Please note the attached Edward Scott RFI No. 44 regarding the Fire Alarm Control Panel requiring a dedicated phone line from the data closet room 151. How will this line be routed back to the Administration complex? Please advise.

**SUGGESTED SOLUTION:**

**Cost Impact:** ☐ **Schedule Impact:** ☐ days **By:** Mark Delgado

**RESPONSE:** **DATE:**

THE COLLEGE WILL BE INSTALLING A NEW "NODE" FOR THE TELEPHONE SYSTEM IN THE IRC BUILDING. THERE WILL ALSO BE TELEPHONE CONDUCTOR PAIR TO THE IRC FROM THE MDF "MPOE" WITHIN THE MAIN COMPUSC (ADMIN). TELEPHONE CONDUCTOR WILL ALSO BE RUN FROM THE SCIENCE BLD MDF TO THE MDF (NODE/COMPUSC) WITHIN THE IRC BUILDING. THIS WIRING SCHEME WILL PROVIDE A CONDUCTOR PATH FOR THE DEDICATED PHONE LINE REQUIREMENTS FOR FA & ELEVATOR TELEPHONES/DIALERS.

11-13-06

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
**435 BARRET STREET**
**San Francisco, CA 94103-4914**
**Phone: (415) 626-0701 Fax: (415) 626-2837**

**REQUEST FOR INFORMATION**

PROJECT: SCIENCE BLDG. L.M.C. R.F.I.# 44 R.F.I. Date 10/18/06
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: EDWARD SCOTT
REF: EWS
LOCATION: DATA ROOM

POTENTIAL COST IMPACT
___ COST
___ OTHER
___ NO IMPACT
X SCHEDULE
___ LABOR
___ MATERIAL

INFORMATION REQUESTED: THE PLAN REQUIRES A DEDICATED TELEPHONE LINE FROM THE DATA CLOSET ROOM 151, HOW WILL THIS LINE BE ROUTED BACK TO THE ADMINISTRATION COMPLEX?

REPLY REQUIRED BY: 10/31/06 SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

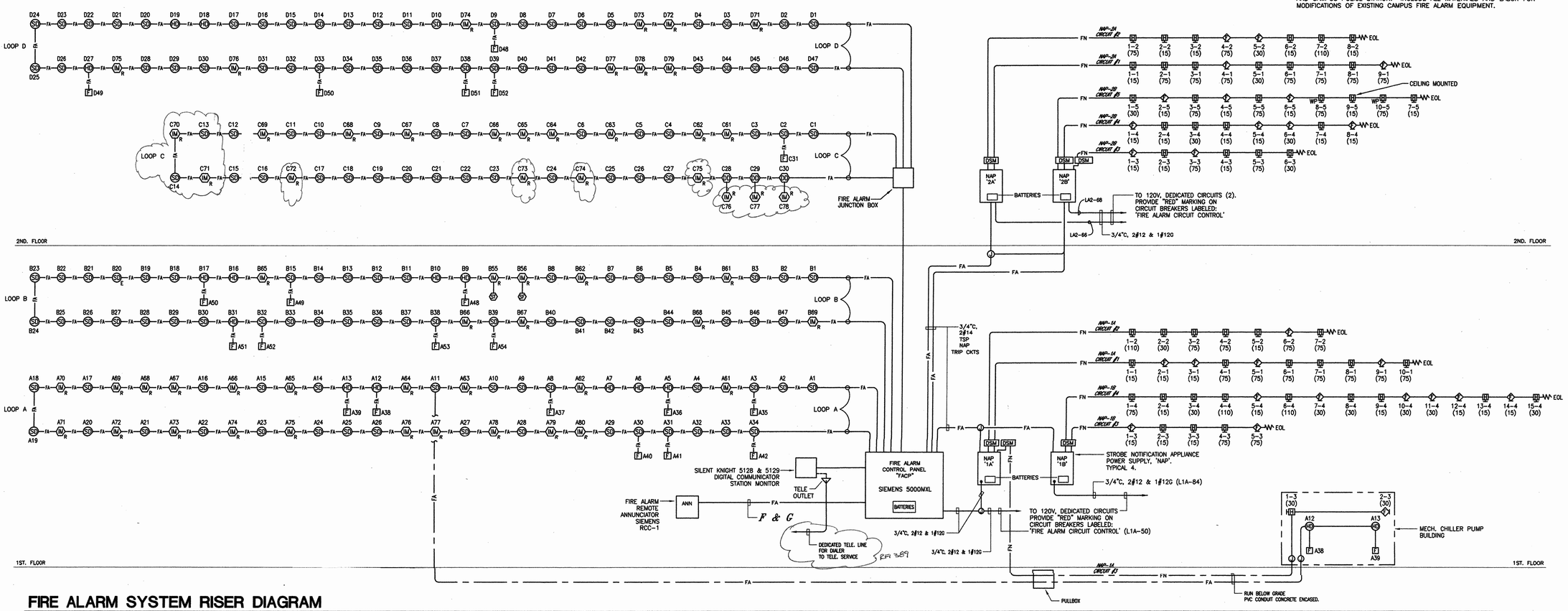
RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190436

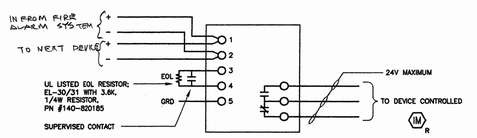
## FIRE ALARM RISER NOTES

1. ALL WIRING TO RUN IN CONDUIT. CONDUIT FILL NOT TO EXCEED 40%.
2. REFER TO FLOOR PLANS FOR LOCATION AND CIRCUIT ROUTING FOR ALL DEVICES.
3. FIRE ALARM CONTRACTOR TO UPDATE GRAPHICS PANELS AT THE FIRE STATION AND CAMPUS POLICE STATION. INCLUDE ALL MATERIALS AND LABOR FOR MODIFICATIONS OF EXISTING CAMPUS FIRE ALARM EQUIPMENT.



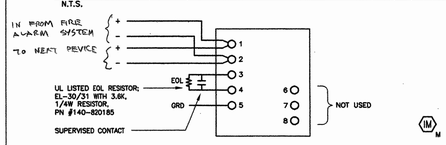

## FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE



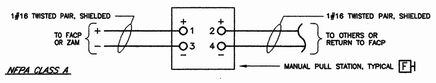

### TYPICAL INTERFACE MODULE WIRING DIAGRAM

N.T.S.



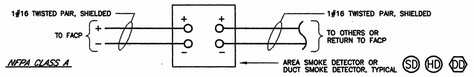

### TYPICAL INTERFACE MODULE WIRING DIAGRAM

N.T.S.



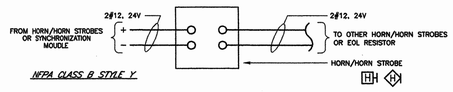

### TYPICAL MANUAL PULL STATION WIRING DIAGRAM

N.T.S.



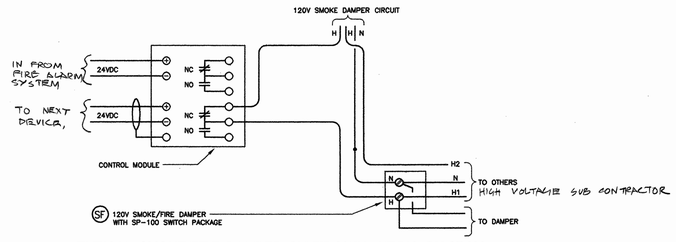

### TYPICAL SMOKE, HEAT OR DUCT DETECTOR WIRING DIAGRAM

N.T.S.



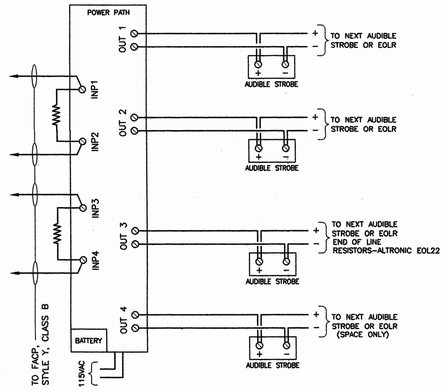

### TYPICAL HORN OR HORN/STROBE WIRING DIAGRAM

N.T.S.




### TYPICAL SMOKE/FIRE DAMPER SHUTDOWN WIRING DIAGRAM

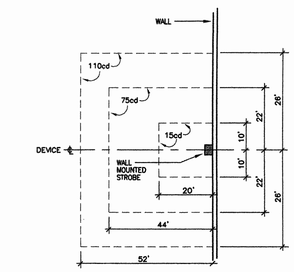
N.T.S.




### STROBE NOTIFICATION APPLIANCE POWER SUPPLY "NAP" WIRING DIAGRAM

NOT TO SCALE

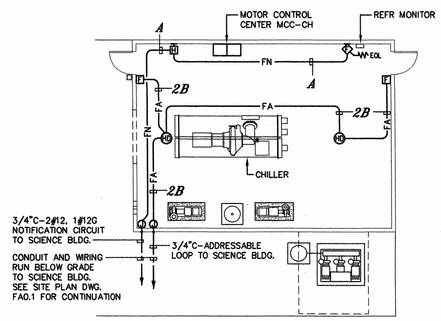
PROVIDE (2) SIGNAL CIRCUITS TO THE NAP FROM THE FACP FOR SILENCING HORNS AND STROBES SEPARATELY. STROBES SHALL CONTINUE AFTER HORNS ARE SILENCED. OSA INSPECTOR TO VERIFY OPERATION.




### STROBE COVERAGE - OPEN AREAS

NOT TO SCALE

PER NFPA 72A-6-4.4.1.1(a) 0.0375 LUMENS PER SQUARE FOOT




1 FA2.1 MECHANICAL/CHILLER/PUMP BUILDING

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

TWF #03058.00


tBP
architecture planning interiors management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

CONSULTING ENGINEERS
TOFT WOLFF FARROW Inc.
780 Promontory Street, Suite 100
San Francisco, CA 94109
TEL (415) 247-8700
FAX (415) 247-8711
twfsf@twfsf.com

consultant


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATORY SERVICES
APPL - 01-106025
AC 1-11-05
DATE

agency

name
address
city, state, zip
pht
fxc

owner

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

tBP project number : 2024100
file name: FLR-PLAN
drawn by: LLAI checked by: LSM
date: NOVEMBER 15, 2004

| rev. | date: | description: |
|---|---|---|

drawing title:
DETAILS & DIAGRAMS FIRE ALARM

LMC SCIENCE 313-023-112.01-0-00.00
drawing no: FA-2.1

## Battery Calculations for External Device Power

FOR : NAP/1A – 1st FL

LOAD IN STANDBY AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.035 | = | 0.035 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| | | | TOTAL STANDBY LOAD | = | 0.079 |

LOAD IN ALARM AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.140 | = | 0.140 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| DSM | 2 | X | 0.035 | = | 0.070 |
| Strobe Light (15cd) | 2 | X | 0.041 | = | 0.082 |
| Strobe Light (30cd) | 0 | X | 0.065 | = | 0.000 |
| Strobe Light (75cd) | 3 | X | 0.116 | = | 0.348 |
| Strobe Light (110cd) | 0 | X | 0.155 | = | 0.000 |
| Horn Strobes (15cd) | 2 | X | 0.065 | = | 0.130 |
| Horn Strobes (30cd) | 1 | X | 0.087 | = | 0.087 |
| Horn Strobes (75cd) | 8 | X | 0.134 | = | 1.072 |
| Horn Storbes (110cd) | 1 | X | 0.174 | = | 0.174 |
| Weatherproof Horns | 0 | X | 0.04 | = | 0.000 |
| | | | TOTAL ALARM LOAD | = | 2.147 |

## Battery Calculations for External Device Power

FOR : NAP/1B – 1st FL

LOAD IN STANDBY AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.035 | = | 0.035 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| | | | TOTAL STANDBY LOAD | = | 0.079 |

LOAD IN ALARM AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.140 | = | 0.140 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| DSM | 1 | X | 0.035 | = | 0.035 |
| Strobe Light (15cd) | 4 | X | 0.041 | = | 0.164 |
| Strobe Light (30cd) | 3 | X | 0.065 | = | 0.195 |
| Strobe Light (75cd) | 1 | X | 0.116 | = | 0.116 |
| Strobe Light (110cd) | 0 | X | 0.155 | = | 0.000 |
| Horn Strobes (15cd) | 5 | X | 0.065 | = | 0.325 |
| Horn Strobes (30cd) | 3 | X | 0.087 | = | 0.261 |
| Horn Strobes (75cd) | 2 | X | 0.134 | = | 0.268 |
| Horn Storbes (110cd) | 2 | X | 0.174 | = | 0.348 |
| Weatherproof Horns | 0 | X | 0.04 | = | 0.000 |
| | | | TOTAL ALARM LOAD | = | 1.896 |

## Battery Calculations for External Device Power

FOR : NAP/2A – 2nd FL

LOAD IN STANDBY AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.035 | = | 0.035 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| | | | TOTAL STANDBY LOAD | = | 0.079 |

LOAD IN ALARM AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.14 | = | 0.140 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| DSM | 1 | X | 0.035 | = | 0.035 |
| Strobe Light (15cd) | 0 | X | 0.041 | = | 0.000 |
| Strobe Light (30cd) | 1 | X | 0.065 | = | 0.065 |
| Strobe Light (75cd) | 3 | X | 0.116 | = | 0.348 |
| Strobe Light (110cd) | 0 | X | 0.155 | = | 0.000 |
| Horn Strobes (15cd) | 5 | X | 0.065 | = | 0.325 |
| Horn Strobes (30cd) | 1 | X | 0.087 | = | 0.087 |
| Horn Strobes (75cd) | 6 | X | 0.134 | = | 0.804 |
| Horn Storbes (110cd) | 1 | X | 0.174 | = | 0.174 |
| Weatherproof Horns | 0 | X | 0.04 | = | 0.000 |
| | | | TOTAL ALARM LOAD | = | 2.022 |

## Battery Calculations for External Device Power

FOR : NAP/2B – 2nd FL

LOAD IN STANDBY AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.035 | = | 0.035 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| | | | TOTAL STANDBY LOAD | = | 0.079 |

LOAD IN ALARM AT 24 VOLTS DC

| Device Type | Number of Devices | | Current (amps) | | Total Current (AMPS) |
|---|---|---|---|---|---|
| Main PC Board with AC fail | 1 | X | 0.140 | = | 0.140 |
| Report Delay Enabled | | | | | |
| EOL Resistors | 4 | X | 0.011 | = | 0.044 |
| DSM | 2 | X | 0.035 | = | 0.070 |
| Strobe Light (15cd) | 7 | X | 0.041 | = | 0.287 |
| Strobe Light (30cd) | 1 | X | 0.065 | = | 0.065 |
| Strobe Light (75cd) | 1 | X | 0.116 | = | 0.116 |
| Strobe Light (110cd) | 0 | X | 0.155 | = | 0.000 |
| Horn Strobes (15cd) | 5 | X | 0.065 | = | 0.325 |
| Horn Strobes (30cd) | 3 | X | 0.087 | = | 0.261 |
| Horn Strobes (75cd) | 4 | X | 0.134 | = | 0.536 |
| Horn Storbes (110cd) | 0 | X | 0.174 | = | 0.000 |
| Weatherproof Horns | 0 | X | 0.04 | = | 0.000 |
| | | | TOTAL ALARM LOAD | = | 1.844 |

## Secondary Power Source Battery Calculations

FOR : NAP/1A – 1st FL

| Standby Load Current (Amps) | | Required Standby Time in Hours (24 or 60 Hours). | | Ampere Hours |
|---|---|---|---|---|
| 0.079 | X | 24 | = | 1.90 |
| Alarm Load Current (Amps) | | Required Alarm Time in Hours (5 Min.) ( i.e. 5 Min. = .084 Hrs.) | | |
| 2.147 | X | 0.084 | = | 0.18 |
| | | Total Standby and Alarm Load in Ampere Hours | = | 2.08 |
| | | Ampere Hour Load times 1.2 (Rating Factor) | = | 2.49 |
| | | Total Ampere Hour Battery Required | = | 2.49 |

**NOTE:**
USE (2) 7.0 AMPERE HOUR BATTERIES

## Secondary Power Source Battery Calculations

FOR : NAP/1B – 1st FL

| Standby Load Current (Amps) | | Required Standby Time in Hours (24 or 60 Hours). | | Ampere Hours |
|---|---|---|---|---|
| 0.079 | X | 24 | = | 1.90 |
| Alarm Load Current (Amps) | | Required Alarm Time in Hours (5 Min.) ( i.e. 5 Min. = .084 Hrs.) | | |
| 1.896 | X | 0.084 | = | 0.16 |
| | | Total Standby and Alarm Load in Ampere Hours | = | 2.06 |
| | | Ampere Hour Load times 1.2 (Rating Factor) | = | 2.47 |
| | | Total Ampere Hour Battery Required | = | 2.47 |

**NOTE:**
*USE (2) 7.0 AMPERE HOUR BATTERIES*

## Secondary Power Source Battery Calculations

FOR : NAP/2A – 2nd FL

| Standby Load Current (Amps) | | Required Standby Time in Hours (24 or 60 Hours). | | Ampere Hours |
|---|---|---|---|---|
| 0.079 | X | 24 | = | 1.90 |
| Alarm Load Current (Amps) | | Required Alarm Time in Hours (5 Min.) ( i.e. 5 Min. = .084 Hrs.) | | |
| 2.022 | X | 0.084 | = | 0.17 |
| | | Total Standby and Alarm Load in Ampere Hours | = | 2.07 |
| | | Ampere Hour Load times 1.2 (Rating Factor) | = | 2.48 |
| | | Total Ampere Hour Battery Required | = | 2.48 |

**NOTE:**
USE (2) 7.0 AMPERE HOUR BATTERIES

## Secondary Power Source Battery Calculations

FOR : NAP/2B – 2nd FL

| Standby Load Current (Amps) | | Required Standby Time in Hours (24 or 60 Hours). | | Ampere Hours |
|---|---|---|---|---|
| 0.079 | X | 24 | = | 1.90 |
| Alarm Load Current (Amps) | | Required Alarm Time in Hours (5 Min.) ( i.e. 5 Min. = .084 Hrs.) | | |
| 1.844 | X | 0.084 | = | 0.15 |
| | | Total Standby and Alarm Load in Ampere Hours | = | 2.05 |
| | | Ampere Hour Load times 1.2 (Rating Factor) | = | 2.46 |
| | | Total Ampere Hour Battery Required | = | 2.46 |

**NOTE:**
USE (2) 7.0 AMPERE HOUR BATTERIES

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-1A CKT. # 1A-1

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–1A | DSM | 1 | 2 | 0.035 | 1.084 | 2.17 | 0.007 | 23.99 | 0.007 | 12 |
| DSM | 1–1 | 1 | 28 | 0.065 | 1.049 | 29.37 | 0.100 | 23.89 | 0.107 | 12 |
| 1–1 | 2–1 | 1 | 23 | 0.041 | 0.984 | 22.63 | 0.077 | 23.82 | 0.184 | 12 |
| 2–1 | 3–1 | 1 | 14 | 0.041 | 0.943 | 13.20 | 0.045 | 23.77 | 0.229 | 12 |
| 3–1 | 4–1 | 1 | 23 | 0.134 | 0.902 | 20.75 | 0.071 | 23.70 | 0.300 | 12 |
| 4–1 | 5–1 | 1 | 38 | 0.116 | 0.768 | 29.18 | 0.099 | 23.60 | 0.399 | 12 |
| 5–1 | 6–1 | 1 | 21 | 0.134 | 0.652 | 13.69 | 0.047 | 23.55 | 0.446 | 12 |
| 6–1 | 7–1 | 1 | 53 | 0.134 | 0.518 | 27.45 | 0.093 | 23.46 | 0.539 | 12 |
| 7–1 | 8–1 | 1 | 27 | 0.134 | 0.384 | 10.37 | 0.035 | 23.43 | 0.574 | 12 |
| 8–1 | 9–1 | 1 | 38 | 0.116 | 0.250 | 9.50 | 0.032 | 23.39 | 0.606 | 12 |
| 9–1 | 10–1 | 1 | 32 | 0.134 | 0.134 | 4.29 | 0.015 | 23.38 | 0.621 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 2.59%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-2A CKT. # 2A-1

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–2A | DSM | 1 | 2 | 0.035 | 1.067 | 2.13 | 0.007 | 23.99 | 0.007 | 12 |
| DSM | 1–1 | 1 | 26 | 0.065 | 1.032 | 26.83 | 0.091 | 23.90 | 0.099 | 12 |
| 1–1 | 2–1 | 1 | 20 | 0.134 | 0.967 | 19.34 | 0.066 | 23.84 | 0.164 | 12 |
| 2–1 | 3–1 | 1 | 44 | 0.134 | 0.833 | 36.65 | 0.125 | 23.71 | 0.289 | 12 |
| 3–1 | 4–1 | 1 | 69 | 0.116 | 0.699 | 48.23 | 0.164 | 23.55 | 0.453 | 12 |
| 4–1 | 5–1 | 1 | 10 | 0.065 | 0.583 | 5.83 | 0.020 | 23.53 | 0.473 | 12 |
| 5–1 | 6–1 | 1 | 72 | 0.134 | 0.518 | 37.30 | 0.127 | 23.40 | 0.600 | 12 |
| 6–1 | 7–1 | 1 | 35 | 0.134 | 0.384 | 13.44 | 0.046 | 23.35 | 0.645 | 12 |
| 7–1 | 8–1 | 1 | 19 | 0.134 | 0.250 | 4.75 | 0.016 | 23.34 | 0.661 | 12 |
| 8–1 | 9–1 | 1 | 34 | 0.116 | 0.116 | 3.94 | 0.013 | 23.33 | 0.675 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 2.81%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-1A CKT. # 1A-2

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–1A | DSM | 2 | 2 | 0.035 | 0.879 | 1.76 | 0.006 | 23.99 | 0.006 | 12 |
| DSM | 1–2 | 2 | 48 | 0.174 | 0.844 | 40.51 | 0.138 | 23.86 | 0.144 | 12 |
| 1–2 | 2–2 | 2 | 63 | 0.087 | 0.670 | 42.21 | 0.144 | 23.71 | 0.287 | 12 |
| 2–2 | 3–2 | 2 | 42 | 0.134 | 0.583 | 24.49 | 0.083 | 23.63 | 0.371 | 12 |
| 3–2 | 4–2 | 2 | 28 | 0.134 | 0.449 | 12.57 | 0.043 | 23.59 | 0.413 | 12 |
| 4–2 | 5–2 | 2 | 42 | 0.065 | 0.315 | 13.23 | 0.045 | 23.54 | 0.458 | 12 |
| 5–2 | 6–2 | 2 | 20 | 0.116 | 0.250 | 5.00 | 0.017 | 23.52 | 0.475 | 12 |
| 6–2 | 7–2 | 2 | 26 | 0.134 | 0.134 | 3.48 | 0.012 | 23.51 | 0.487 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 2.03%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-2A CKT. # 2A-2

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–2A | DSM | 2 | 2 | 0.035 | 0.784 | 1.57 | 0.005 | 23.99 | 0.005 | 12 |
| DSM | 1–2 | 2 | 59 | 0.134 | 0.749 | 44.19 | 0.150 | 23.84 | 0.156 | 12 |
| 1–2 | 2–2 | 2 | 13 | 0.065 | 0.615 | 8.00 | 0.027 | 23.82 | 0.183 | 12 |
| 2–2 | 3–2 | 2 | 27 | 0.065 | 0.550 | 14.85 | 0.051 | 23.77 | 0.233 | 12 |
| 3–2 | 4–2 | 2 | 24 | 0.116 | 0.485 | 11.64 | 0.040 | 23.73 | 0.273 | 12 |
| 4–2 | 5–2 | 2 | 50 | 0.065 | 0.369 | 18.45 | 0.063 | 23.66 | 0.336 | 12 |
| 5–2 | 6–2 | 2 | 67 | 0.065 | 0.304 | 20.37 | 0.069 | 23.60 | 0.405 | 12 |
| 6–2 | 7–2 | 2 | 20 | 0.174 | 0.239 | 4.78 | 0.016 | 23.58 | 0.421 | 12 |
| 7–2 | 8–2 | 2 | 32 | 0.065 | 0.065 | 2.08 | 0.007 | 23.57 | 0.428 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 1.78%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-1A CKT. # 1A-3

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–1A | DSM | 3 | 2 | 0.035 | 0.187 | 0.37 | 0.001 | 24.00 | 0.001 | 12 |
| DSM | 1–3 | 3 | 239 | 0.087 | 0.152 | 36.33 | 0.124 | 23.88 | 0.125 | 12 |
| 1–3 | 2–3 | 3 | 31 | 0.065 | 0.650 | 20.15 | 0.069 | 23.81 | 0.193 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 0.81%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-2B CKT. # 2B-3

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–2B | DSM | 3 | 2 | 0.035 | 0.521 | 1.04 | 0.004 | 24.00 | 0.004 | 12 |
| DSM | 1–3 | 3 | 23 | 0.041 | 0.486 | 11.18 | 0.038 | 23.96 | 0.042 | 12 |
| 1–3 | 2–3 | 3 | 48 | 0.065 | 0.445 | 21.36 | 0.073 | 23.89 | 0.114 | 12 |
| 2–3 | 3–3 | 3 | 17 | 0.116 | 0.380 | 6.46 | 0.022 | 23.86 | 0.136 | 12 |
| 3–3 | 4–3 | 3 | 20 | 0.065 | 0.264 | 5.28 | 0.018 | 23.85 | 0.154 | 12 |
| 4–3 | 5–3 | 3 | 28 | 0.134 | 0.199 | 5.57 | 0.019 | 23.83 | 0.173 | 12 |
| 5–3 | 6–3 | 3 | 18 | 0.065 | 0.065 | 1.17 | 0.004 | 23.82 | 0.177 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 0.74%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-1B CKT. # 1B-3

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–1B | DSM | 3 | 2 | 0.035 | 0.456 | 0.91 | 0.003 | 24.00 | 0.003 | 12 |
| DSM | 1–3 | 3 | 15 | 0.041 | 0.421 | 6.32 | 0.021 | 23.98 | 0.025 | 12 |
| 1–3 | 2–3 | 3 | 33 | 0.065 | 0.380 | 12.54 | 0.043 | 23.93 | 0.067 | 12 |
| 2–3 | 3–3 | 3 | 30 | 0.065 | 0.315 | 9.45 | 0.032 | 23.90 | 0.099 | 12 |
| 3–3 | 4–3 | 3 | 19 | 0.134 | 0.250 | 4.75 | 0.016 | 23.88 | 0.116 | 12 |
| 4–3 | 5–3 | 3 | 36 | 0.116 | 0.116 | 4.18 | 0.014 | 23.87 | 0.130 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 0.54%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-2B CKT. # 2B-4

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–2B | DSM | 4 | 2 | 0.035 | 0.505 | 1.01 | 0.003 | 24.00 | 0.003 | 12 |
| DSM | 1–4 | 4 | 13 | 0.041 | 0.470 | 6.11 | 0.021 | 23.98 | 0.024 | 12 |
| 1–4 | 2–4 | 4 | 12 | 0.065 | 0.429 | 5.15 | 0.018 | 23.96 | 0.042 | 12 |
| 2–4 | 3–4 | 4 | 52 | 0.087 | 0.364 | 18.93 | 0.064 | 23.89 | 0.106 | 12 |
| 3–4 | 4–4 | 4 | 49 | 0.065 | 0.277 | 13.57 | 0.046 | 23.85 | 0.152 | 12 |
| 4–4 | 5–4 | 4 | 38 | 0.041 | 0.212 | 8.06 | 0.027 | 23.82 | 0.180 | 12 |
| 5–4 | 6–4 | 4 | 10 | 0.065 | 0.171 | 1.71 | 0.006 | 23.81 | 0.185 | 12 |
| 6–4 | 7–4 | 4 | 47 | 0.065 | 0.106 | 4.98 | 0.017 | 23.80 | 0.202 | 12 |
| 7–4 | 8–4 | 4 | 40 | 0.041 | 0.041 | 1.64 | 0.006 | 23.79 | 0.208 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 0.87%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-1B CKT. # 1B-4

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–1B | DSM | 4 | 2 | 0.035 | 1.291 | 2.58 | 0.009 | 23.99 | 0.009 | 12 |
| DSM | 1–4 | 4 | 21 | 0.134 | 1.256 | 26.38 | 0.090 | 23.90 | 0.098 | 12 |
| 1–4 | 2–4 | 4 | 46 | 0.065 | 1.122 | 51.61 | 0.176 | 23.73 | 0.274 | 12 |
| 2–4 | 3–4 | 4 | 56 | 0.087 | 1.057 | 59.19 | 0.201 | 23.52 | 0.475 | 12 |
| 3–4 | 4–4 | 4 | 50 | 0.174 | 0.970 | 48.50 | 0.165 | 23.36 | 0.640 | 12 |
| 4–4 | 5–4 | 4 | 58 | 0.041 | 0.796 | 46.17 | 0.157 | 23.20 | 0.797 | 12 |
| 5–4 | 6–4 | 4 | 16 | 0.174 | 0.755 | 12.08 | 0.041 | 23.16 | 0.838 | 12 |
| 6–4 | 7–4 | 4 | 21 | 0.065 | 0.581 | 12.20 | 0.041 | 23.12 | 0.880 | 12 |
| 7–4 | 8–4 | 4 | 54 | 0.087 | 0.516 | 27.86 | 0.095 | 23.03 | 0.975 | 12 |
| 8–4 | 9–4 | 4 | 36 | 0.065 | 0.429 | 15.44 | 0.053 | 22.97 | 1.027 | 12 |
| 9–4 | 10–4 | 4 | 37 | 0.065 | 0.364 | 13.47 | 0.046 | 22.93 | 1.073 | 12 |
| 10–4 | 11–4 | 4 | 10 | 0.065 | 0.299 | 2.99 | 0.010 | 22.92 | 1.083 | 12 |
| 11–4 | 12–4 | 4 | 46 | 0.041 | 0.234 | 10.76 | 0.037 | 22.88 | 1.120 | 12 |
| 12–4 | 13–4 | 4 | 20 | 0.065 | 0.193 | 3.86 | 0.013 | 22.87 | 1.133 | 12 |
| 13–4 | 14–4 | 4 | 35 | 0.041 | 0.128 | 4.48 | 0.015 | 22.85 | 1.148 | 12 |
| 14–4 | 15–4 | 4 | 14 | 0.087 | 0.087 | 1.22 | 0.004 | 22.85 | 1.152 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 4.80%

## VOLTAGE DROP CALCULATION - NOTIFICATION CIRCUIT - NAP-2B CKT. # 2B-5

BASED ON POINT TO POINT OHMS CALCULATION – ACCEPTABLE LIMIT 10% @ 24 VOLTS = 2.4 VOLTS MAX.
LINE TO LINE VOLTAGE= 24

| FROM START POINT OF RUN | TO END POINT OF RUN | CKT. NO. | RUN LENGTH FEET | DEVICE AMP LOAD | ACCUM. AMP LOAD OF CKT. | AMP. FEET | VOLTS DROP THIS SEGMENT | VOLTAGE AT END OF RUN | ACCUM. VOLT DROP | WIRE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|
| NAP–2B | DSM | 5 | 2 | 0.035 | 0.647 | 1.29 | 0.004 | 24.00 | 0.004 | 12 |
| DSM | 1–5 | 5 | 55 | 0.087 | 0.612 | 33.66 | 0.114 | 23.88 | 0.119 | 12 |
| 1–5 | 2–5 | 5 | 16 | 0.041 | 0.525 | 8.40 | 0.029 | 23.85 | 0.147 | 12 |
| 2–5 | 3–5 | 5 | 13 | 0.134 | 0.484 | 6.29 | 0.021 | 23.83 | 0.169 | 12 |
| 3–5 | 4–5 | 5 | 25 | 0.041 | 0.350 | 8.75 | 0.030 | 23.80 | 0.199 | 12 |
| 4–5 | 5–5 | 5 | 44 | 0.134 | 0.309 | 13.60 | 0.046 | 23.76 | 0.245 | 12 |
| 5–5 | 6–5 | 5 | 46 | 0.041 | 0.175 | 8.05 | 0.027 | 23.73 | 0.272 | 12 |
| 6–5 | 7–5 | 5 | 37 | 0.134 | 0.134 | 4.96 | 0.017 | 23.71 | 0.289 | 12 |

MAX. VOLTAGE DROP ON CIRCUIT = MAX ACCUM. VOLT DROP/24 X 100= 1.20%

TWF #03058.00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agency


# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00
file name: FLR-PLAN
drawn by: LLAI checked by: LSH
date: NOVEMBER 15, 2004

| Rev. | date | description |
|---|---|---|

drawing title:
VOLTAGE DROP AND BATTERY CALCULATIONS - FIRE ALARM

LMC SCIENCE 313-023-112.01-0-00.00

drawing no.: FA-3.1

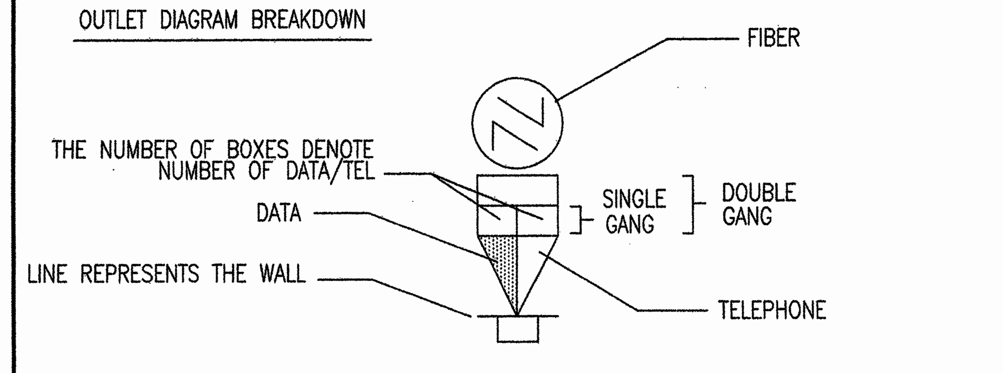
## LEGEND OF SYMBOLS TELECOMMUNICATIONS BOXES

| SYMBOLS | DESCRIPTIONS |
|---|---|
| FRONT | 19" x 84" STEEL RACK WITH CABLE MANAGEMENT AND AC POWER DISTRIBUTION. SEE DRAWING T6-4. |
| | STEEL WIRE CABLE TRAY, VERTICALLY MOUNTED AT LOCATION AND OF SIZE SHOWN. |
| | 20" x 4" x 1/4" COPPER GROUND BAR, PROVIDED AND INSTALLED BY ELECTRICAL. |
| | APC POWER DISTRIBUTION UNIT (PDU) WITH L5-20P PLUG/CORD ASSEMBLY. CONNECT L5-20P PLUG TO OVERHEAD POWER BUSWAY SYSTEM. ATTACH PDU TO BACK OF CHATSWORTH MASTER CABLING SECTION, SECURE WITH CARRIAGE BOLTS. SEE DRAWING T6-4. |
| OR GND | DIRECT CONNECTION TO TELECOM GROUNDING BAR REQUIRED. SEE SPECIFICATION SECTION 16803 AND GROUNDING DIAGRAMS. |
| # | KEY NOTE INDICATOR. SEE CORRESPONDING SHEET NOTE ON SAME SHEET. |
| # | DETAIL KEY NOTE INDICATOR. SEE CORRESPONDING DETAIL NOTE ON SAME DETAIL. |
| | TELECOM BACKBOARDS<br>(E) 3/4" A-C GRADE FIRE RESISTANT TREATED PLYWOOD. PLYWOOD SHALL HAVE STAMP THAT INDICATES TREATED FIRE RESISTANCE. MASK STAMP AND PAINT PLYWOOD WITH A LOW SMOKE SEMI-GLOSS WHITE PAINT. |
| # T#.#.# | DETAIL INDICATOR/LOCATOR. SEE ASSOCIATED DETAIL. UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET. "__" IN UPPER HALF INDICATES MULTIPLE DETAILS FROM INDICATED SHEET APPLY. "__" IN LOWER HALF INDICATES DETAIL IS ON SAME SHEET AS INDICATOR. |
| # T#.#.# | ELEVATION INDICATOR/LOCATOR. SEE ASSOCIATED ELEVATION. UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET. "__" IN UPPER HALF INDICATES MULTIPLE DETAILS FROM INDICATED SHEET APPLY. "__" IN LOWER HALF INDICATES DETAIL IS ON SAME SHEET AS INDICATOR. |
| # T#.#.# | SECTION INDICATOR/LOCATOR. SEE ASSOCIATED SECTION. UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET. "__" IN UPPER HALF INDICATES MULTIPLE DETAILS FROM INDICATED SHEET APPLY. "__" IN LOWER HALF INDICATES DETAIL IS ON SAME SHEET AS INDICATOR. |
| | RISER CONDUITS UP |
| | RISER CONDUITS DOWN |
| | RISER CONDUITS THROUGH |
| | ROUTE CONDUIT TO CABLETRAY |
| # | FIBER OPTIC SERVICE LOOP, # INDICATES LOOP LENGTH IN FEET. |
| | FIBER OPTIC CABLE |
| | FIBER OPTIC SPLICE |
| ###  (X) YYY | BEGINNING PAIR COUNT<br>NUMBER OF TERMINAL BLOCK(S)<br>PAIR CAPACITY OF TERMINAL BLOCK |
| #### | UNPROTECTED COPPER BACKBONE CABLE TERMINAL BLOCK, 110 STYLE<br>BEGINNING PAIR COUNT |
| | CONDUIT SIZE AND TYPE CALLOUT<br>INNERDUCT SIZE, TYPE AND COLOR INDICATED<br>CABLE OR INNERDUCT-TYPE AND FIBER STRAND COUNT INDICATED<br>SOLID INDICATES HIGH PAIR COUNT COPPER CABLE |

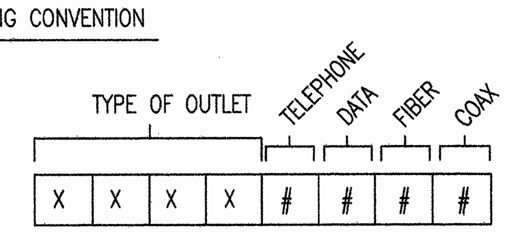
## COMMUNICATIONS OUTLETS

### OUTLET NAMING CONVENTION

OUTLET DIAGRAM BREAKDOWN




OUTLET NUMBERING CONVENTION




EXAMPLE: WALL BOX FLUSH DOUBLE GANG

| W | B | F | D | 1 | 2 | 1 | 0 |
|---|---|---|---|---|---|---|---|

| SYMBOLS | DESCRIPTIONS |
|---|---|
| A ELEV1000 IDF# / ROOM# # — E | ELEVATOR TELEPHONE INTERFACE<br>TERMINATION HARDWARE:<br>(1) 4-PAIR CATEGORY 6 NETWORK STATION CABLE<br>(1) 8 PIN, 8 POSITION TERMINAL BLOCK |
| A FBSD0400 IDF# / ROOM# STA# | FLOOR BOX SHALLOW DUPLEX<br>TERMINATION HARDWARE:<br>(4) 4-PAIR NETWORK STATION CABLES<br>(4) 8 PIN 8 POSITION NETWORK JACKS |
| A FBSD0600 IDF# / ROOM# STA# | FLOOR BOX SHALLOW DUPLEX<br>TERMINATION HARDWARE:<br>(6) 4-PAIR NETWORK STATION CABLES<br>(6) 8 PIN 8 POSITION NETWORK JACKS |
| A FPFD0200 IDF# / ROOM# STA# | FLOOR POKE-THRU FLUSH DOUBLE<br>TERMINATION HARDWARE:<br>(2) 4-PAIR NETWORK STATION CABLES<br>(2) 8 PIN 8 POSITION NETWORK JACKS |
| A PAY1000 IDF# / ROOM# # — PAY | PAY PHONE FACE PLATE<br>TERMINATION HARDWARE:<br>(1) 4-PAIR TELEPHONE STATION CABLE |
| A RALD0200 IDF# / ROOM# # | RACEWAY ALUMINUM DUAL CHANNEL<br>TERMINATION HARDWARE:<br>(2) 4-PAIR NETWORK STATION CABLES<br>(2) 8 PIN 8 POSITION NETWORK JACKS |
| A WALL1000 IDF# / ROOM# # — W | WALL TELEPHONE FACE PLATE<br>TERMINATION HARDWARE:<br>(1) 4-PAIR TELEPHONE STATION CABLE<br>(1) 8 PIN 8 POSITION TELEPHONE JACK |
| A WAPS0200 IDF# / ROOM# # | WIRELESS ACCESS POINT<br>TERMINATION HARDWARE:<br>(2) 4-PAIR NETWORK STATION CABLES<br>(2) 8 PIN 8 POSITION NETWORK JACKS |
| A WBFD0200 IDF# / ROOM# # | WALL BOX FLUSH DOUBLE GANG<br>TERMINATION HARDWARE:<br>(2) 4-PAIR NETWORK STATION CABLES<br>(2) 8 PIN 8 POSITION NETWORK JACKS |
| A WBFD0600 IDF# / ROOM# # | WALL BOX FLUSH DOUBLE GANG<br>TERMINATION HARDWARE:<br>(6) 4-PAIR NETWORK STATION CABLES<br>(6) 8 PIN 8 POSITION NETWORK JACKS |
| A WBFD1200 IDF# / ROOM# # | WALL BOX FLUSH DOUBLE GANG<br>TERMINATION HARDWARE:<br>(1) 4-PAIR TELEPHONE STATION CABLE<br>(1) 8 PIN 8 POSITION TELEPHONE JACK<br>(2) 4-PAIR NETWORK STATION CABLES<br>(2) 8 PIN 8 POSITION NETWORK JACKS |
| A WBFD2400 IDF# / ROOM# # | WALL BOX FLUSH DOUBLE GANG<br>TERMINATION HARDWARE:<br>(2) 4-PAIR TELEPHONE STATION CABLES<br>(2) 8 PIN 8 POSITION TELEPHONE JACKS<br>(4) 4-PAIR NETWORK STATION CABLES<br>(4) 8 PIN 8 POSITION NETWORK JACKS |

## ABBREVIATIONS

### ABBREVIATION / DESCRIPTION

#### GENERAL

| | |
|---|---|
| (e) OR (E) | EXISTING |
| (n) OR (N) | NEW |
| (f) OR (F) | FUTURE |
| ABV | ABOVE |
| ACH | ABOVE COUNTER HEIGHT |
| ACT | ACOUSTICAL CEILING TILE |
| ADJ | ADJUST(ABLE) |
| AFC | ABOVE FINISHED CEILING |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| ALT | ALTERNATE |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT(URAL) |
| ASA | AMERICAN STANDARDS ASSOCIATION |
| BET | BETWEEN |
| BFC | BELOW FINISHED CEILING |
| BLDG | BUILDING |
| BLW | BELOW |
| C-C | CENTER TO CENTER |
| CL | CENTER LINE |
| CLG | CEILING |
| CLR | CLEAR(ANCE) |
| CMU | CONCRETE MASON UNIT |
| COL | COLUMN |
| CONC. | CONCRETE |
| CONT | CONTINUOUS |
| COORD | COORDINATE, COORDINATION |
| CORR | CORRIDOR |
| DED | DEDICATE, DEDICATED |
| DEMO | DEMOLISH |
| DEPT | DEPT DEPARTMENT |
| DET | DETAIL |
| DIM | DIMENSION |
| DIST | DISTANCE |
| DWG(S) | DRAWING(S) |
| EA | EACH |
| EC | ELECTRICAL CONTRACTOR |
| ELEV. | ELEVATION |
| EMERG | EMERGENCY |
| EQ. | EQUAL |
| EQPMT | EQUIPMENT |
| EQUIP | EQUIPMENT |
| EQUIV | EQUIVALENT |
| EXIST | EXISTING |
| EXT | EXTERIOR |
| FCC | FEDERAL COMMUNICATIONS COMMISSION |
| FIN | FINISH |
| FLEX | FLEXIBLE |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FUT | FUTURE |
| GA | GAUGE |
| GALV | GALVANIZED |
| GC | GENERAL CONTRACTOR |
| GWB | GYPSUM WALL BOARD |
| INCAND | INCANDESCENT |
| INCL | INCLUDE, INCLUDING |
| INFO | INFORMATION |
| INT | INTERIOR |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MFG | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| NA | NOT APPLICABLE |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NIC | NOT IN CONTRACT |
| No. | NUMBER |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| OFE | OWNER FURNISHED EQUIPMENT |
| OFOI | OWNER FURNISHED, OWNER INSTALLED |
| OPP | OPPOSITE |
| OSHA | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| OVHD | OVERHEAD |
| PAV | PAVEMENT |
| PLY | PLYWOOD |
| PLYWD | PLYWOOD |
| PRI | PRIMARY |
| PROP | PROPOSED |
| QTY | QUANTITY |
| RCP | REFLECTED CEILING PLAN |
| REF | REFERENCE |
| REM | REMOVE |
| REPL | REPLACE |
| REQ'D | REQUIRED |
| REQD | REQUIRED |
| RM | ROOM |
| SCHD | SCHEDULE |
| SECT. | SECTION |
| SHT | DRAWING SHEET NUMBER OR SERIES |
| SIM | SIMILAR |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| STD | STANDARD |
| STL | STEEL |
| SUSP | SUSPEND(ED) |
| SYM | SYMMETRICAL |
| SYST | SYSTEM |
| TELC | TELECOMMUNICATIONS CONTRACTOR |
| TEMP | TEMPORARY |
| THK | THICK(NESS) |
| TIA/EIA | TELECOMMUNICATIONS INDUSTRIES ASSOCIATION/ELECTRONIC INDUSTRY ALLIANCE |
| TME | TO MATCH EXISTING |
| TYP | TYPICAL |
| UBC | UNIFORM BUILDING CODE |
| UC | UNDERCOUNTER |
| UL | UNDERWRITERS LABORATORY |
| UON | UNLESS OTHERWISE NOTED |
| VIF | VERIFY IN FIELD |
| W/ | WITH |
| W/O | WITHOUT |
| WD | WOOD |
| WO | WHERE OCCURS |

#### SYMBOLS AS ABBREVIATIONS

| | |
|---|---|
| # | POUND |
| & | AND |
| @ | AT |
| ' | FOOT OR FEET |
| " | INCH OR INCHES |
| +/- OR ± | PLUS OR MINUS |
| < | LESS THAN |
| = | EQUAL |
| > | GREATER THAN |
| ° | DEGREES, ANGULAR MEASURE |
| Ω | OHM |
| ‖ | PARALLEL |
| ø | DIAMETER |
| ∠ | ANGLE |

#### NOTE

WHERE AN ABBREVIATION HAS MORE THAN ONE DESCRIPTION ABBREVIATIONS ARE CONTEXT SENSITIVE.

#### WIRE & CABLE ABBREVIATIONS

| | |
|---|---|
| ANMW | 24 AWG BONDED FILL FLOODED TWISTED CABLE |
| ARMM | 24 AWG RISER ARMORED BONDED MULTIPAIR CABLE |
| AWG | AMERICAN WIRE GAGE |
| CAT3 | CATEGORY 3 TWISTED PAIR COPPER CABLE |
| CAT6 | CATEGORY 6 TWISTED PAIR COPPER CABLE |
| CM | NEC, COMMUNICATIONS CABLE |
| CMP | NEC, COMMUNICATIONS PLENUM CABLE |
| CMR | NEC, COMMUNICATIONS RISER CABLE |
| COAX | COAXIAL CABLE |
| FO | FIBER OPTIC |
| HDPE | HIGH DENSITY POLYETHYLENE |
| LTFF | LOOSE TUBE FILLED & FLOODED |
| MDPE | MEDIUM DENSITY POLYETHYLENE |
| MM | MULTIMODE FIBER OPTIC CABLE |
| MPP | NEC, MULTIPURPOSE PLENUM CABLE |
| OFC | NEC, OPTICAL FIBER CONDUCTIVE CABLE |
| OFCP | NEC, OPTICAL FIBER CONDUCTIVE PLENUM CABLE |
| OFCR | NEC, OPTICAL FIBER CONDUCTIVE RISER CABLE |
| OFNR | NEC, OPTICAL FIBER NON-CONDUCTIVE RISER CABLE |
| OFN | NEC, OPTICAL FIBER NON-CONDUCTIVE CABLE |
| OFNP | NEC, OPTICAL FIBER NON-CONDUCTIVE PLENUM CABLE |
| SM | SINGLE MODE FIBER OPTIC CABLE |
| STP | SHIELDED TWISTED PAIR |
| TB | TIGHT BUFFERED |
| UTP | UNSHIELDED TWISTED PAIR |

#### ELECTRICAL ABBREVIATIONS

| | |
|---|---|
| A OR AMP | AMPERE |
| BND | BOND(ING) |
| C | CONDUIT |
| C.O. | CONDUIT ONLY |
| COND. | CONDUIT |
| ELEC | ELECTRIC(AL) |
| EMT | ELECTRICAL METALLIC TUBING |
| ENT | ELECTRICAL NON-METALLIC TUBING |
| GRC | GALVANIZED RIGID CONDUIT |
| GRD | GROUND |
| GRND | GROUND |
| Hz | HERTZ |
| IG | ISOLATED GROUND |
| IMC | INTERMEDIATE METALLIC CONDUIT |
| PB | PULL BOX |
| PLN | PANEL |
| PWR | POWER |
| UPS | UNINTERRUPTABLE POWER SUPPLY |
| V | VOLT |
| VAC | VOLTS, ALTERNATING CURRENT |
| VDC | VOLTS, DIRECT CURRENT |
| W | WATT |
| XFMR | TRANSFORMER |

#### MEASURMENTS ABBREVIATIONS

| | |
|---|---|
| BTU | BRITISH THERMAL UNIT |
| D or Dp | DEEP |
| DIA | DIAMETER |
| FT | FOOT OR FEET |
| H or HGT | HEIGHT OR HIGH |
| ID | INSIDE DIAMETER |
| In | INCH |
| L | LENGTH OR LONG |
| Lb | POUND |
| LIN | LINEAR |
| M | METER |
| mm | MILIMETER |
| OD | OUTSIDE DIAMETER |
| R | RADIUS |
| RAD | RADIANS |
| um | MICRON |
| W | WIDE |
| WT | WEIGHT |
| YD | YARD |

#### TELECOMMUNICATIONS ABBREVIATIONS

| | |
|---|---|
| 110 | TWISTED PAIR TERMINATION BLOCK |
| ADF | AREA DISTRIBUTION FACILITY |
| BDF | BUILDING DISTRIBUTION FRAME OR FACILITY |
| BEF | BUILDING ENTRANCE FRAME OR FACILITY |
| CAB | TELECOM CABINET OR ENCLOSURE |
| CONN | CONNECTOR |
| CSC | COPPER SPLICE CLOSURE |
| CEV | CONTROLLED ENVIRONMENTAL VAULT |
| FDF | FIBER DISTRIBUTION FACILITY |
| FF | FRONT FACING |
| FS | FIBER SHELF/FIBER TERMINATION PANEL |
| FSC | FIBER OPTIC SPLICE CLOSURE |
| HH | HANDHOLE |
| IDF | INTERMEDIATE DISTRIBUTION FRAME OR FACILITY |
| MDF | MAIN DISTRIBUTION FRAME |
| MH | MANHOLE, MAINTENANCE HOLE |
| MPOE | MINIMUM POINT OF ENTRY, MAIN POINT OF ENTRY |
| OCEF | OPTICAL CABLE ENTRANCE FACILITY |
| PC | PLASTIC CONDUIT |
| PG | PAIR GROUP |
| POP | POINT OF PRESENCE |
| PR | PAIR |
| PVC | POLYVINYL CHLORIDE |
| R/W | RIGHT-OF-WAY |
| SC | SPLICE CLOSURE |
| SCS | STRUCTURED CABLING SYSTEM |
| SER | SERIAL |
| SMR | SURFACE MOUNTED RACEWAY |
| SS | FIBER SPLICE SHELF |
| TC | TELECOM CLOSET |
| TCC | TELECOM CONDUIT |
| TCH | TELECOM CONDUIT SLEEVE, HORIZONTAL |
| TCR | TELECOM HORIZONTAL & VERTICAL RISER CONDUIT |
| TCT | TELECOM CABLE TRAY |
| TEC | TELECOM ENTRANCE CONDUIT |
| TEL | TELEPHONE |
| TELECOM | TELECOMMUNICATIONS |
| TERM | TERMINAL |
| TP | TWISTED PAIR |
| TPB | TELECOM PULL BOX |
| TSL | TELECOM WALL OR FLOOR SLOT |
| TSV | TELECOM CONDUIT SLEEVE, VERTICAL |

#### COLOR CODE

| | |
|---|---|
| AQ | AQUA |
| BK | BLACK |
| BL | BLUE |
| BR | BROWN |
| G | GREEN |
| GR | GREY |
| OR | ORANGE |
| R | RED |
| RS | ROSE |
| SL | SLATE |
| V | VIOLET |
| W | WHITE |
| YL | YELLOW |

#### DIRECTIONAL ABBREVIATIONS

| | |
|---|---|
| DN | DOWN |
| E | EAST |
| HORIZ | HORIZONTAL |
| L | LEFT |
| LH | LEFT HAND |
| N | NORTH |
| PERP | PERPENDICULAR |
| R | RIGHT |
| RH | RIGHT HAND |
| S | SOUTH |
| VERT | VERTICAL |

## TELECOMMUNICATIONS DRAWING LIST


| # | SHT.# | DESCRIPTION |
|---|---|---|
| 01 | T0-1 | LEGEND, SYMBOLS, ABBREVIATIONS & DRAWING INDEX |
| 02 | T1-0 | TELECOMMUNICATIONS FIBER OPTIC OSP CABLE |
| 03 | T1-1 | FIRST FLOOR PLAN, PART "A" TELECOM OUTLETS |
| 04 | T1-2 | FIRST FLOOR PLAN, PART "B" TELECOM OUTLETS |
| 05 | T1-3 | SECOND FLOOR PLAN, PART "A" TELECOM OUTLETS |
| 06 | T1-4 | SECOND FLOOR PLAN, PART "B" TELECOM OUTLETS |
| 07 | T1-5 | ROOF PLAN, PART "B" TELECOM OUTLETS |
| 08 | T3-1 | ENLARGED PLANS - BDF/IDF 1.0 (ROOM 151) |
| 09 | T3-2 | ENLARGED PLANS - IDF 2.0 (ROOM 209) |
| 10 | T4-1 | ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151) |
| 11 | T4-2 | ELEVATIONS - WALL & RACK - IDF 2.0 (ROOM 209) |
| 12 | T4-3 | ELEVATIONS - FIBER OPTIC TERMINATION SHELVES |
| 13 | T4-4 | ELEVATIONS - FIBER OPTIC TERMINATION SHELVES |
| 14 | T5-1 | RISER DIAGRAM - FIBER OPTIC AND COPPER BACKBONE |
| 15 | T6-0 | DETAILS - TELECOM OUTLETS |
| 16 | T6-1 | DETAILS - TELECOM OUTLETS |
| 17 | T6-2 | DETAILS - STEEL WIRE CABLE TRAY |
| 18 | T6-3 | DETAILS - FIBER OPTIC TROUGH AND "U"-CHANNEL |
| 19 | T6-4 | DETAILS - EQUIPMENT RACK |
| 20 | T6-5 | DETAILS - IDENTIFICATION & LABELING |
| 21 | T6-6 | DETAILS - FIRESTOPPING |


## TELECOM TERMINATION DEVICE IDENTIFIER LEGEND

SYMBOLS DESCRIPTION

FIBER TERMINATION SHELF LEGEND

| | |
|---|---|
| SHELF | FIBER SHELF IDENTIFIER |
| F/POS | QTY. OF AVAILABLE SHELF POSITIONS |
| SM | QTY. OF SINGLE MODE FIBER TERMINATED |
| MM | QTY. OF MULTIMODE FIBER TERMINATED |
| SPARE | QTY. OF SPARE TERMINATIONS |
| TYPE | SHELF TYPE IDENTIFIER |

## AUDIO/VIDEO SYMBOLS LIST

TERMINAL, PULL BOXES AND BACKCANS FOR LOW VOLTAGE CIRCUITS AND WIRING

| SYMBOL | DESCRIPTION | DEVICE | MOUNTING | REMARKS |
|---|---|---|---|---|
| S | SPEAKER BACKCAN/BAFFLE ASSEMBLY, FOR 4" LOUDSPEAKER CEILING-MOUNT | ATLAS SOUND, BMT95-4 BACKCAN WITH T51-84 BAFFLE. | FLUSH-MOUNT IN FINISHED CEILING. CENTER IN BOTH DIRECTIONS IN ACOUSTICAL TILE. | PROVIDE ATLAS SOUND MOUNTING RAIL WHEN USED IN ACOUSTICAL TILE TYPE CEILINGS. FOR FUTURE CEILING-MOUNT SPEAKERS (SUPPLIED AND INSTALLED BY OWNER). SEE DETAILS. |
| FB | FLOOR BOX, HINGED DIVIDED WITH (1) 4 GANG, (1) 2 GANG OPENING, & (1) SINGLE GANG OPENING | FSR FL-500P | CAST-IN-PLACE | |


tBP architecture planning interiors management

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AC SS
DATE 1-12-05

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address
city, state, zip
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# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

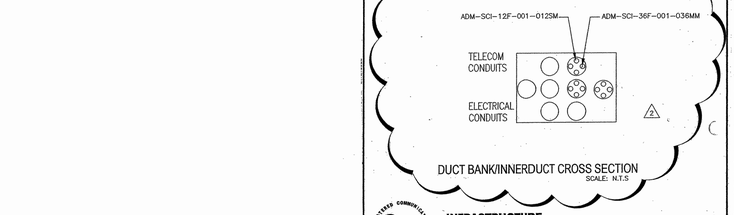
owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

drawing title: building no:
LEGEND, SYMBOLS, ABBREVIATIONS, & DRAWING INDEX
LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
T0-1
drawing of

\Los Medanos College\Science Building\Final DSA\wood\T0-1.dwg 12-13-04 08:52:24 AM cmendoza

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

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SHEET: SKT-1

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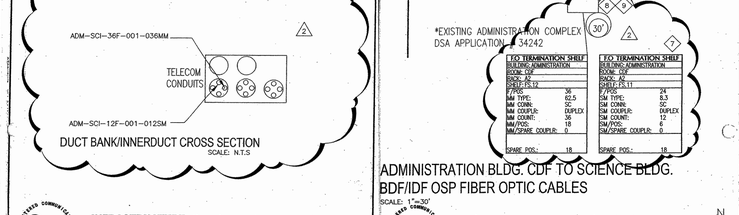
DSA FILE # 7-C1
DSA APPL # 01-106226

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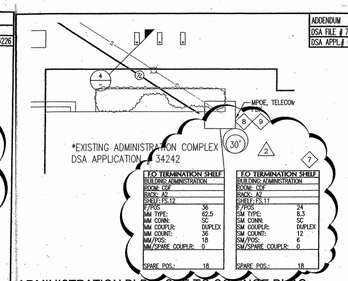


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BDF/IDF OSP FIBER OPTIC CABLES
SCALE: 1"=30'

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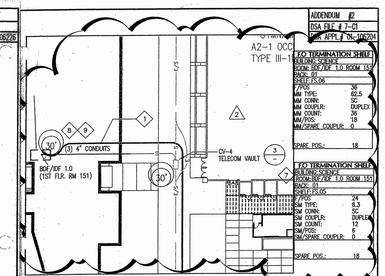
SHEET: SKT-3

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106204




ADMINISTRATION BLDG. CDF TO SCIENCE BLDG.
BDF/IDF OSP FIBER OPTIC CABLES
SCALE: 1"=30'

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TELECOMMUNICATIONS FIBER OPTIC OSP CABLES

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DATE: 05/11/05
DSA NO.: 01-106204
THIS REVISES IN PART
SHEET: TI.0
SHEET: SKT-4

---

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-245-0405

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

tBP p/n: 20247.00

Subj.: Campus Network Issues with BMS System — RFI No: **488**
Reference (dwg, spec.): — Subcontractor RFI: CommAir 10

Reply Requested By:: 2/22/07

INFORMATION REQUESTED: — Date: 2/15/07

Please note the attached Contractor RFI No.10 regarding the BMS System support from the Campus Network. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ — Schedule Impact: ☐ days — By: Justin Warren

RESPONSE: — DATE:

Please provide IDA with the 3 locations for the proposed network connections need for the BMS System so IDA can confirm that there are drops in each location. The cable work provides connection for the campus network is being installed by another contractor, however there is a series of events which must take place prior to the district installing any network equipment to connect the BMS system. First all the telecom rooms must be built out according to the design documents; all cables must be pulled, tested, labeled and reviewed by IDA prior to installing any network equipment such as routers switches etc.

Jim Weaver / tBP Architecture, David Buza / IDA — 3/26/07

The following locations were provided by SJA. Please see response with each.
1. One location is in the chiller building so that the BAS can "reach" the chiller itself.
   Response: Utilize existing north wall data drop. Coordinate location with mechanical controls.
2. Second location is at the cooling tower on the roof.
   Response: Utilize south wall data drop over to panel location around corner at west wall.
3. The third location is ready at the discretion of the end user as this location is wherever they choose to have the PC located that will be associated with the Tristate fume hood valves.
   Response: Refer to RFI 493 for locating the Tristate in data room 209. Data is available.

Jim Weaver / tBP Architecture, David Buza / IDA — Supplemental Response — 3/8/07

RFI # 000
Page 1

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**CommAir**
1561 Sherry Circle # 10
Concord, California 94518
(925) 772-5140 / fax (925) 682-5209

**REQUEST FOR INFORMATION**

DATE: 02/08/2007 — RFI# 0010
JOB NO.: 6010-0016 — BY: Chris Olivera
PROJECT: LMC Science

TO: Monterey Mechanical, 3685 Willow Ave, Antioch, CA 94509, 925-757-4640 Fax 757-0874
ATTN: Dan Rindmiller
DIST:

Title or Section of Work: Network Issue
Drawing Location: — Specification Location
Cost Impact: ☐ Yes ☐ No Estimate
Time Impact: ☐ Yes ☐ No Estimate

Description of Problem / Attach sketches as required:
1) I have some concerns regarding the network connectivity for this building in the near future. The BMS computer will need to be placed on the campus network with access back to the Maintenance Shop BMS computer. This need to be set up on 3 other jobs with the College District recently. Not only do we need a physical network drop (1 for each controller) but we need a network address, for Tristalk computers, but we also need the "switches/routers" or ethernet devices the District is planning to install in this building or allow this building to communicate on the Campus network. These network devices are ordered and are due prior to the BMS being connected to them. We have had issues directly where we have wasted multiple days working on the District network issues and we just do not have manpower at this time for work that is not our responsibility.

Response Requested By: Christopher J. Olivera – (510) 772-9340
Proposed Solution:

Signed: Christopher J. Olivera
Organization: Carrier
Date: 02/08/2007
Distribution: ☐ Architect ☐ Super ☐ Mech. Eng. ☐ Elec. Eng. ☐ Owner ☐

---

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-245-0405

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

tBP p/n: 20247.00

Subj.: Network drop at chiller building — RFI No: **494**
Reference (dwg, spec.): — Subcontractor RFI:

Reply Requested By: 3/8/07

INFORMATION REQUESTED: — Date: 3/2/07

As discussed during our Feb 28 site meeting addressing telecom subjects, a network drop will be required at the chiller building in order to allow the Science Building BAS system to communicate with the chiller building. Mention was made of a nearby manhole that may be of use in facilitating this connection. Please review and advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ — Schedule Impact: ☐ days — By: Justin Warren

RESPONSE: — DATE:

Contractor to utilize the womens locker building telecommunications room located to the south of the chiller building to run the outside plant 4 pair category 6 cable.
Pathway to be from chiller building to CV-6 to womens locker building.

The Category 6 cabling is to match the existing campus standards and meet the standards for use in an outdoor environment. Cable must meet or exceed all testing per the specifications and is to be placed in an innerduct. Contractor to coordinate the placement of the new 4 pair category 6 copper cable with the owner.

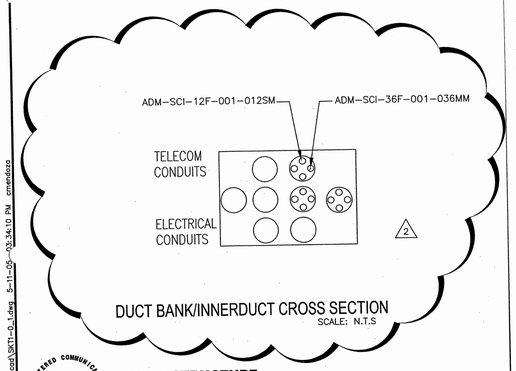
Jim Weaver / tBP Architecture
Dave Buza / IDA
3/19/07

RFI # 000
Page 1

Los Medanos College
4CD Proj.# : L-565-B-23-SC
**Science Building**

1

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

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NO. C-8685
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STATE OF CALIFORNIA

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
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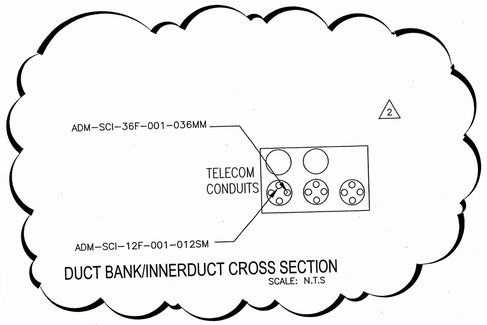
SHEET: SKT-1

2

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

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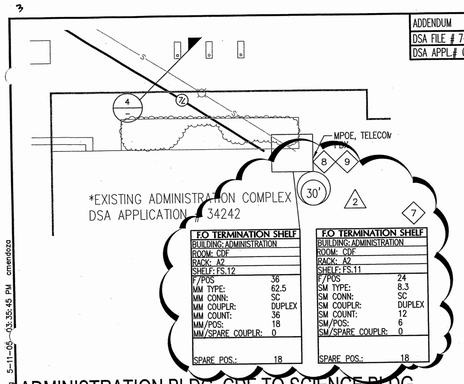
SHEET: SKT-2

3

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226




| F.O TERMINATION SHELF | |
|---|---|
| BUILDING: ADMINISTRATION | |
| ROOM: CDF | |
| RACK: A2 | |
| SHELF: FS.12 | |
| F/POS | 36 |
| MM TYPE: | 62.5 |
| MM CONN: | SC |
| MM COUPLR: | DUPLEX |
| MM COUNT: | 36 |
| MM/POS: | 18 |
| MM/SPARE COUPLR: | 0 |
| SPARE POS.: | 18 |

| F.O TERMINATION SHELF | |
|---|---|
| BUILDING: ADMINISTRATION | |
| ROOM: CDF | |
| RACK: A2 | |
| SHELF: FS.11 | |
| F/POS | 24 |
| SM TYPE: | 8.3 |
| SM CONN: | SC |
| SM COUPLR: | DUPLEX |
| SM COUNT: | 12 |
| SM/POS: | 6 |
| SM/SPARE COUPLR: | 0 |
| SPARE POS.: | 18 |

ADMINISTRATION BLDG. CDF TO SCIENCE BLDG.
BDF/IDF OSP FIBER OPTIC CABLES
SCALE: 1"=30'

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SHEET: SKT-3

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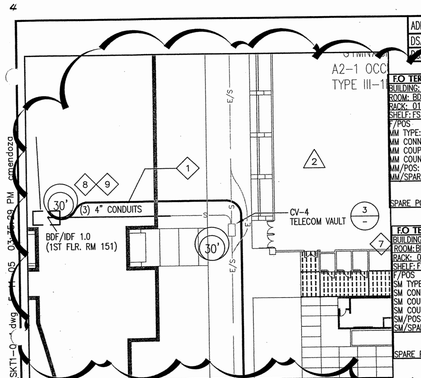


| F.O TERMINATION SHELF | |
|---|---|
| BUILDING: SCIENCE | |
| ROOM: BDF/IDF 1.0 ROOM 151 | |
| RACK: 01 | |
| SHELF: FS.06 | |
| F/POS | 36 |
| MM TYPE: | 62.5 |
| MM CONN: | SC |
| MM COUPLR: | DUPLEX |
| MM COUNT: | 36 |
| MM/POS: | 18 |
| MM/SPARE COUPLR: | 0 |
| SPARE POS.: | 18 |

| F.O TERMINATION SHELF | |
|---|---|
| BUILDING: SCIENCE | |
| ROOM: BDF/IDF 1.0 ROOM 151 | |
| RACK: 01 | |
| SHELF: FS.05 | |
| F/POS | 24 |
| SM TYPE: | 8.3 |
| SM CONN: | SC |
| SM COUPLR: | DUPLEX |
| SM COUNT: | 12 |
| SM/POS: | 6 |
| SM/SPARE COUPLR: | 0 |
| SPARE POS.: | 18 |

ADMINISTRATION BLDG. CDF TO SCIENCE BLDG.
BDF/IDF OSP FIBER OPTIC CABLES
SCALE: 1"=30'

BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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Regis. No. 05229
SIGNATURE

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Oakland, CA. 94612
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Fax: (510) 238-8009

TELECOMMUNICATIONS
FIBER OPTIC OSP CABLES

**MATH BUILDING**
**LOS MEDANOS COLLEGE**
Pittsburg, CA
Contra Costa Community College
School District

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tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

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LICENSED ARCHITECT
RICHARD P. MARQUIS, AIA
NO. C-8685
REG. 12-31-05
STATE OF CALIFORNIA

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106204
THIS REVISES IN PART
SHEET: T1.0
SHEET: SKT-4

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REG. 12-31-05
STATE OF CALIFORNIA

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architect

consultant

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OFFICE OF REGULATION SERVICES
APP. NO. 01-106226
AC. ____ FLS. ____ SS. ____
DATE ____
FILE No. 7-C1

agency

Division of the State Architect
Regional Office
1515 Clay St., Suite 1201
Oakland, CA 94612
p: 415-396-9500 f:

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|

drawing title:
ADDENDUM #2
DRAWINGS

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.:
ATTACHMENT FOR T1-0

## SHEET NOTES

1. 3–4" CONDUITS (PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR) FROM BDF/IDF 1.0 (ROOM 151) TO COMMUNICATIONS VAULT CV–4. REFER TO DRAWING T3–1 FOR LOCATIONS OF CONDUITS IN ROOM 151.
2. COORDINATE LOCATION OF TELECOMMUNICATION OUTLET IN MECHANICAL CHILLER PUMP BUILDING WITH MECHANICAL.
3. PROVIDE AND INSTALL FIBER OPTIC CABLING BETWEEN CDF IN ADMINISTRATION BUILDING AND BDF/IDF 1.0 (ROOM 151) IN SCIENCE BUILDING.
4. PROVIDE AND INSTALL (12) 1" INNERDUCTS IN DUCTS 16–18 FROM SCIENCE BUILDING TO CV–4. REFER TO SPECIFICATION SECTION 16745.
5. PROVIDE AND INSTALL THREE 4" QUADPLEX DUCT PLUGS IN DUCTS 16–18. REFER TO SPECIFICATION SECTION 16705.
6. REFER TO DRAWING T4–3 FOR FIBER OPTIC SHELF AND RACK ELEVATIONS.
7. REFER TO DRAWING T4–4 FOR FIBER OPTIC SHELF AND RACK ELEVATIONS.
8. PROVIDE A 30 FOOT SERVICE LOOP (MINIMUM) OF EACH FIBER OPTIC CABLE SHEATH, TYPICAL. IN BDF AND IDF ROOMS, THE SERVICE LOOP SHALL BE WALL MOUNTED BELOW THE LOWER LEVEL OF STEEL WIRE CABLE TRAY USING 'D'–RINGS.
9. THE FIBER OPTIC CABLE SHEATH(S) SHALL BE LABELED WITHIN 12 INCHES OF THE FIBER TERMINATION SHELF. FIBER OPTIC CABLE LABELS SHALL CONSIST OF STAINLESS STEEL TAG TIE WRAPPED AT BOTH ENDS TO THE CABLE SHEATH AND STAMPED WITH THE FIBER OPTIC CABLE ID NUMBER AS SHOWN IN THE DRAWINGS AND SPECIFICATION SECTION 16735.
10. PLACE CABLE RACKING TO SECURE CABLES AND SERVICE LOOPS.
11. PLACE CABLE RACK HOOKS AND SECURE EACH CABLE USING TIE WRAPS.

NOTE: RFI 494 PROVIDED DIRECTION ON TELECOM CONNECTION FROM CHILLER BUILDING TO WOMEN'S LOCKER ROOM

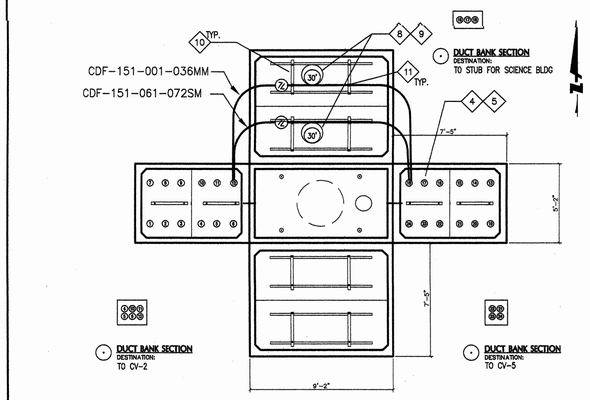
## GENERAL NOTES

A. REFER TO 'SITE PREPARATION' DRAWING SET (DSA #01–105751) FOR VAULT AND DUCT BANK DETAILS.

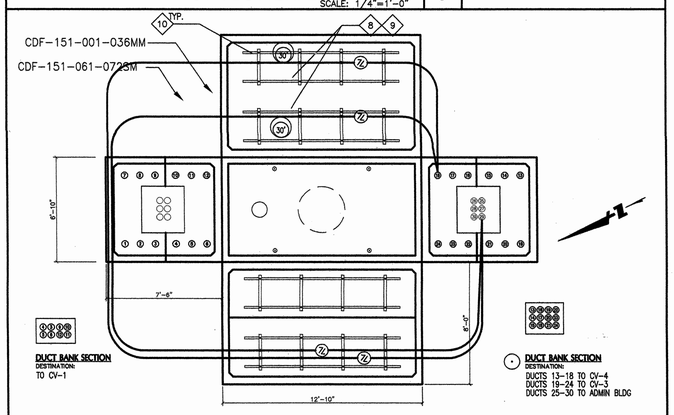
B. EXISTING DUCT BANK SECTIONS SHOWN FOR REFERENCE ONLY.

C. ALL MULTIMODE FIBER OPTIC CABLE STRANDS SHALL BE TESTED IN TWO DIRECTIONS AT 850 nm AND 1300 nm WITH AN ATTENUATION METER, LIGHT SOURCE AND AN OTDR. SEE SPECIFICATION SECTION 16742 FOR LOSS BUDGET CALCULATIONS AND TESTING REQUIREMENTS.

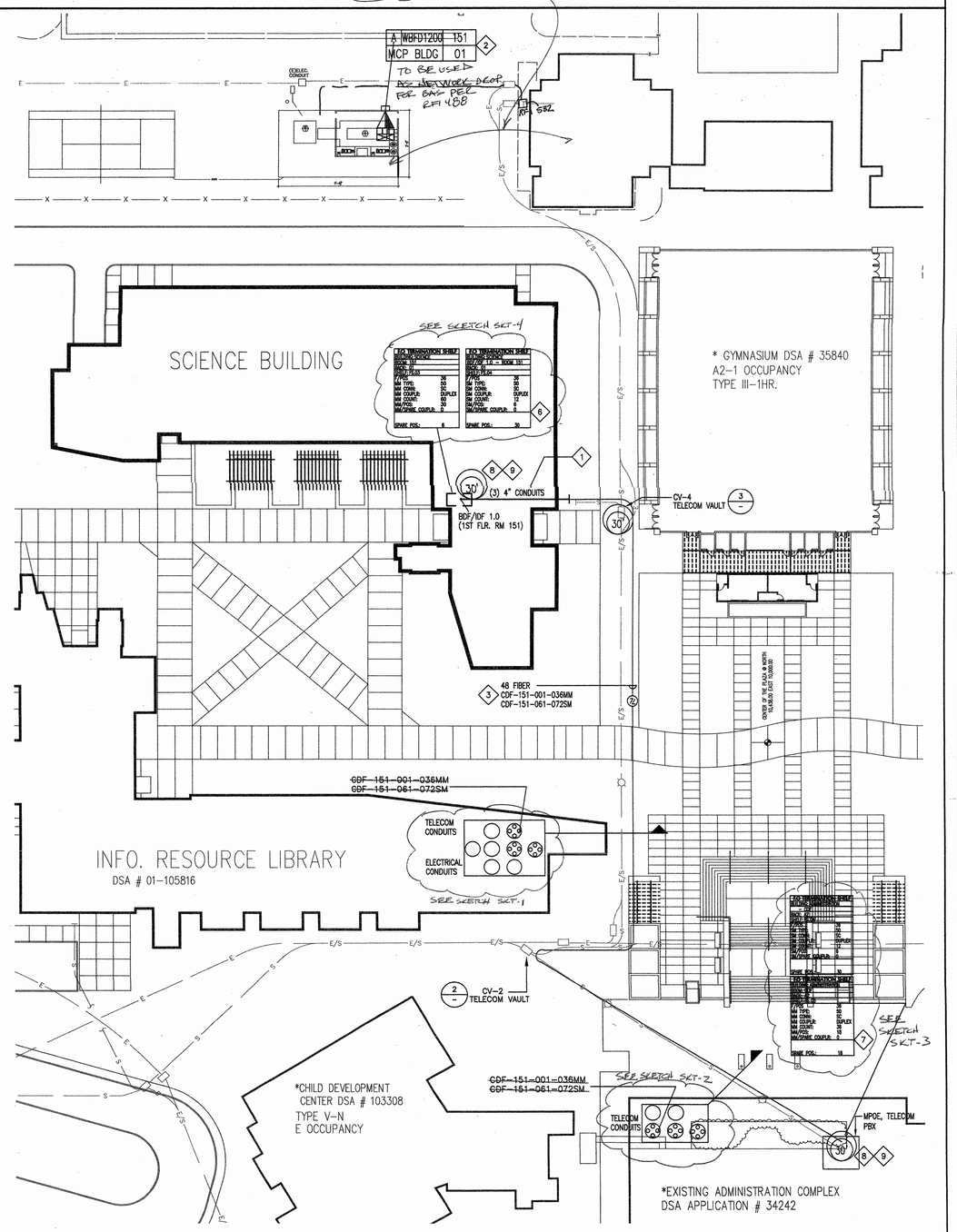
D. ALL SINGLE MODE FIBER OPTIC CABLE STRANDS SHALL BE TESTED IN TWO DIRECTIONS AT 1310 nm AND 1550 nm WITH AN ATTENUATION METER, LIGHT SOURCE AND AN OTDR. SEE SPECIFICATION SECTION 16742 FOR LOSS BUDGET CALCULATIONS AND TESTING REQUIREMENTS.




CV-4 BUTTERFLY DIAGRAM 3
SCALE: 1/4"=1'–0"




CV-2 BUTTERFLY DIAGRAM 2
SCALE: 1/4"=1'–0"




ADMINISTRATION BLDG. CDF TO SCIENCE BLDG. BDF/IDF OSP FIBER OPTIC CABLES 1
SCALE: 1"=30'
0 15' 30' 60'
GRAPHIC SCALE: 1" = 30'

N
PROJECT NORTH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STATE OF CALIFORNIA

INFRASTRUCTURE DESIGN ASSOCIATES
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Suite 304
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OFFICE OF REGULATORY PROCS.
APP. 01-105751
DATE 11-15-05

name
address
city, state, zip
ph: fc

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

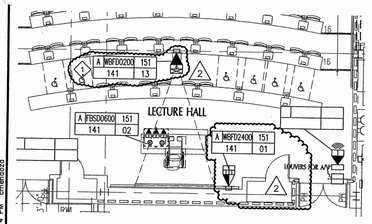
drawing title: building no:
TELECOMMUNICATIONS
FIBER OPTIC OSP CABLES

LMC SCIENCE 313-023-T12.01-0-00.00
drawing no:
T1-0
drawing of

z:\Los Medanos College\Science Building\BID Set\acad\T1-0.dwg 11-08-04 1P:37:20 AM cmendoza

NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226




## FIRST FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"

DESIGN NORTH
TRUE NORTH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FIRST FLOOR PLAN PART "A"
TELECOM OUTLETS

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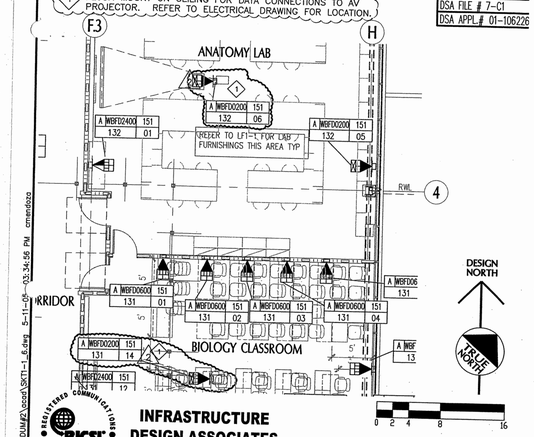
architecture planning interiors management

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.1
SHEET: SKT-5

NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

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## FIRST FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"

FIRST FLOOR PLAN PART "A"
TELECOM OUTLETS


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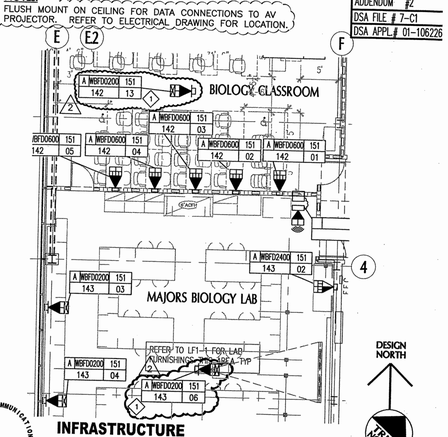
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.1
SHEET: SKT-6

NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226




DESIGN NORTH
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## FIRST FLOOR PLAN PART "A"
SCALE: 1/8"=1'-0"


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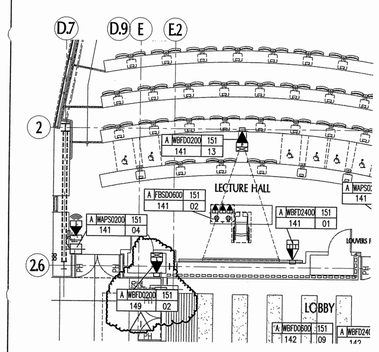
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.1
SHEET: SKT-7

BULLETIN # 13
DSA FILE # 7-C1
DSA APPL.# 01-106226




DESIGN NORTH

NOTES:
1. LOCATE TELECOM FACEPLATE ON BACK BOX AT 54 INCHES AFF TO PROVIDE NETWORK CONNECTION TO WIRELESS EQUIPMENT.

## FIRST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"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FIRST FLOOR PLAN PART "B"
TELECOM OUTLETS

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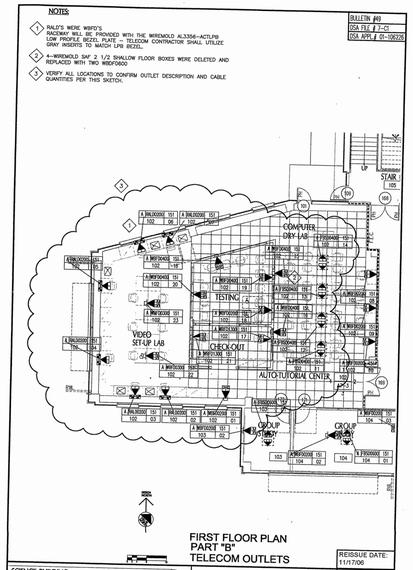
BULLETIN #13
DATE: 03/ 106
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.2
SHEET: SKT13.1

BULLETIN #49
DSA FILE # 7-C1
DSA APPL # 01-106226

NOTES
1. RJ45'S WERE WBFD'S RACEWAY WILL BE PROVIDED WITH THE WIREMOLD AL3356-ACTLP8 LOW PROFILE BEZEL PLATE - TELECOM CONTRACTOR SHALL UTILIZE GRAY INSERTS TO MATCH LP8 BEZEL.
2. 4-WIREMOLD SAF 2 1/2 SHALLOW FLOOR BOXES WERE DELETED AND REPLACED WITH TWO WBDF0600
3. VERIFY ALL LOCATIONS TO CONFIRM OUTLET DESCRIPTION AND CABLE QUANTITES PER THIS SKETCH.




DESIGN NORTH

## FIRST FLOOR PLAN PART "B"
TELECOM OUTLETS

REISSUE DATE: 11/17/06

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BULLETIN #49
DATE: 11/08/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-1
SHEET: SKT-49.1


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APP NO. 01-106226
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agency

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

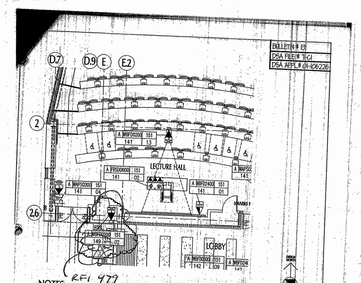
owner

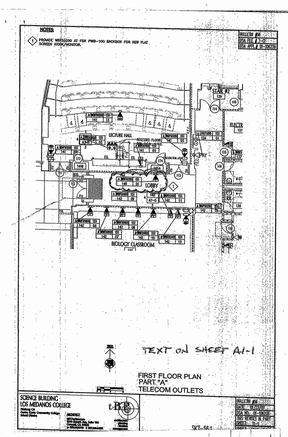
tBP project number : 20241.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|

drawing title:
ADDENDUM #2 DRAWINGS
BULLETIN 13 & 49 DRAWINGS

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
ATTACHMENT FOR T1-1




**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**
13

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Subj.: Data Outlet Added by Bulletin 13

Reference (dwg, spec.): SK13.1

Reply Requested By: 2/12/07

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

tBP p/n: 20247.00

RFI No: **479**
Subcontractor RFI: EWS 69

**INFORMATION REQUESTED:** Date: 2/5/07

Please note the attached Edward Scott Electric RFI No.69 regarding the data outlet added by Bulletin No. 13 in the Lecture Hall Closet. Please advise.

**SUGGESTED SOLUTION:**

**Cost Impact:** ☐ **Schedule Impact:** ☐ days By: Justin Warren

**RESPONSE:** DATE:

The outlet should be labeled as room #141 rather than 149.
Outlet # should be the last # in room 141.

Jim Weaver / tBP Architecture
David Buza / I.D.A.

2/21/07



**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

**REQUEST FOR INFORMATION**

PROJECT: LMC SCIENCE BLDG. R.F.I.# 69 R.F.I. Date 2/1/07
JOB: 2421 ACTUAL REPLY DATE

TO: MARK DELGADO
DP: GUADOSO PAINT
REF: DWG: SK13.1
LOCATION: LECTURE HALL RM 141

POTENTIAL COST IMPACT
___ COST ✓ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: THE DATA OUTLET ADDED BY BULL 13 IN THE LECTURE HALL RM 141. CLOSET IS LABELED AS RM 149. IS THIS THE INTENT.

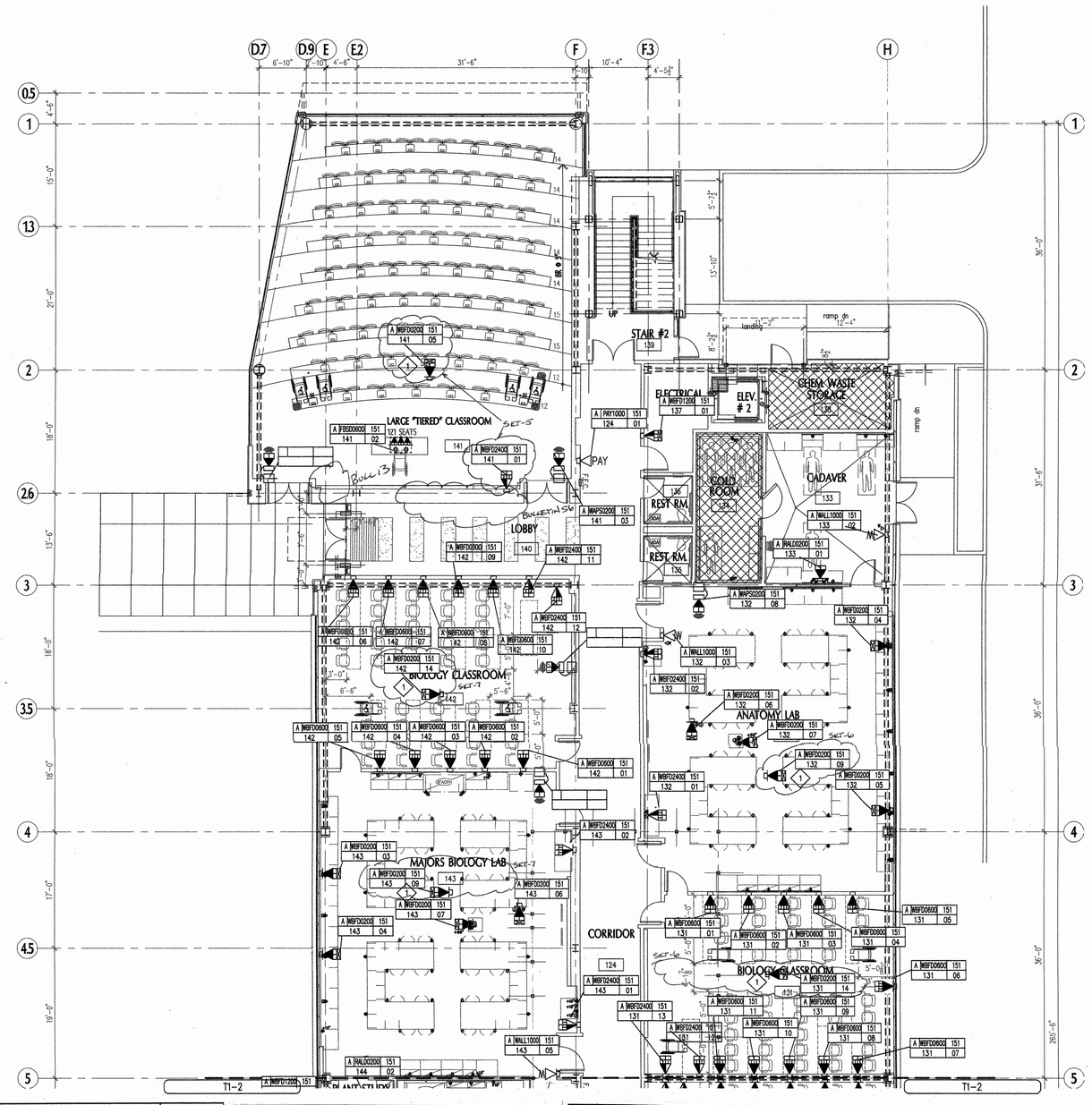
REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

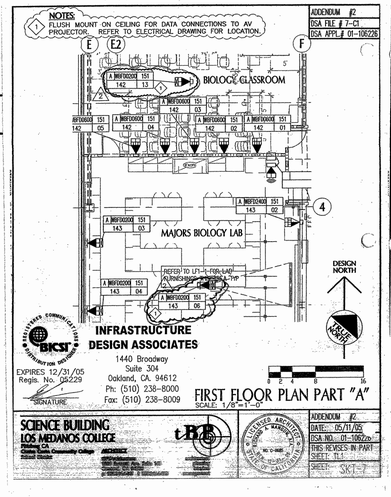
RESPONSE:

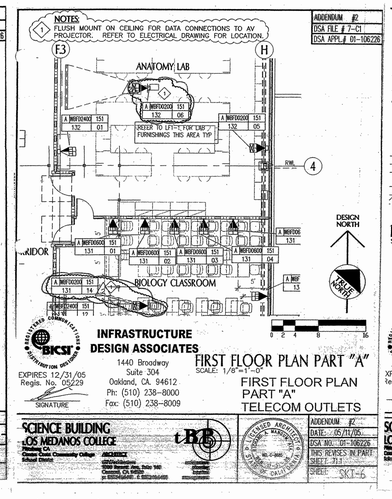
DATED: SIGNED:

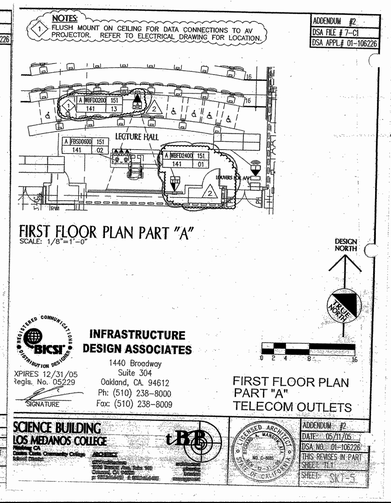
INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

COORDINATE LOCATION WITH OWNERS REPRESENTATIVE IN CEILING.

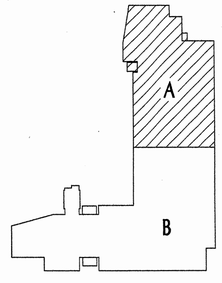



FIRST FLOOR PLAN PART "A" SCALE: 1/8"=1'-0" | 1 | KEY PLAN




tBP architecture planning interiors management

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INFRASTRUCTURE DESIGN ASSOCIATES
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Suite 304
Oakland, CA 94612
EXPIRES 12/31/06
Regis. No. 06606
SIGNATURE

consultant

name
address
city, state, zip
ph: fx

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

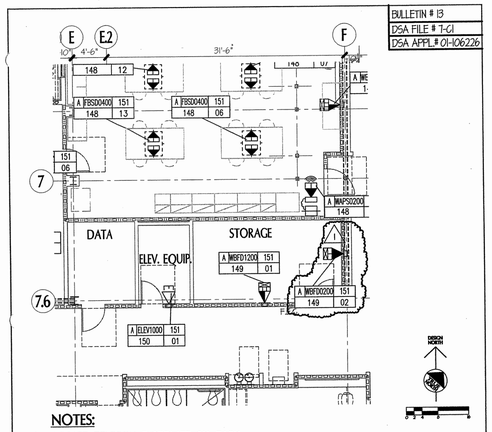
tBP project number: 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

1/8"=1'-0"

drawing title: FIRST FLOOR PLAN PART "A" TELECOM OUTLETS
building no: LMC SCIENCE 313-023-112.01-0-00.00
drawing no: T1-1
drawing of

S:\Los Medanos College\Science Building\Final DSA\acad\T1-1.dwg 12-13-04 09:09:55 AM cmendozo

BULLETIN # 13
DSA FILE # 7-C1
DSA APPL # 01-106226




NOTES:

1. LOCATE TELECOM FACEPLATE ON BACK BOX AT 54 INCHES AFF TO PROVIDE NETWORK CONNECTION TO WIRELESS EQUIPMENT.

FIRST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
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Ph: (510) 238-8000
Fax: (510) 238-8009

FIRST FLOOR PLAN PART "B"
TELECOM OUTLETS

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg CA
Contra Costa Community College District

ARCHITECT
tBP/Architecture
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architecture planning interiors management

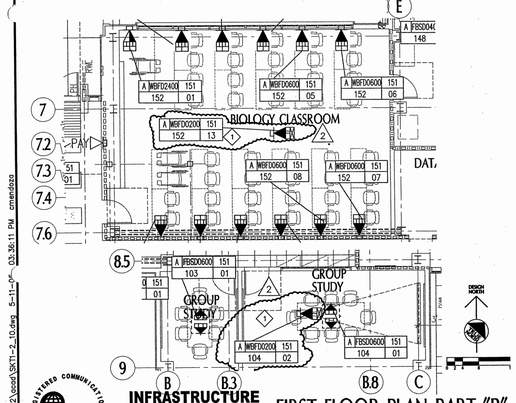
LICENSED ARCHITECT RICHARD A. MARSHALL JR. NO. C-8685 EXP. 12-31-06 STATE OF CALIFORNIA

BULLETIN #13
DATE: 03/ /06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.2
SHEET: SKT13.2

---

NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226




EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
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Ph: (510) 238-8000
Fax: (510) 238-8009

FIRST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"

FIRST FLOOR PLAN PART "B"
TELECOM OUTLETS

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LICENSED ARCHITECT RICHARD A. MARSHALL JR. NO. C-8685 EXP. 12-31-06 STATE OF CALIFORNIA

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.2
SHEET: SKT-10

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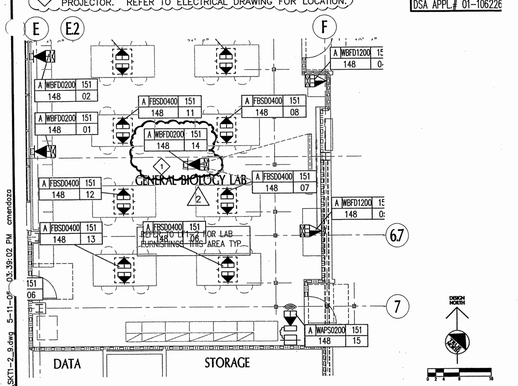
NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

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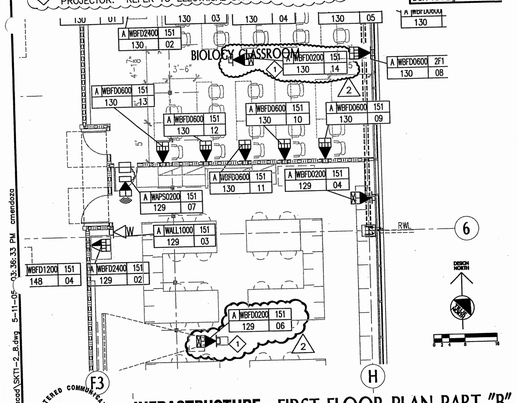
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.2
SHEET: SKT-9

---

NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

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ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.2
SHEET: SKT-8

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NOTES:

GENERAL. THIS BULLETIN RELOCATES CABLES AND RECONFIGURES TERMINATION COVERPLATES AND FACEPLATES IN ROOM 102 COMPUTER DRY LAB, TESTING, CHECK OUT AND THE VIDEO SET UP LAB BUT DOES NOT ADD ANY CABLES. TWO FLOOR WIREMOLD SAF 2-1/2 FLOOR BOX ENCLOSURES ARE DELETED AND THE CABLES REDISTRIBUTED TO OTHER FACEPLATES IN ROOM 102.

1. RELOCATE THE TWO FBSD0600 WIREMOLD SAF 2-1/2 FLOOR BOXES AND TERMINATIONS FROM THE TESTING AREA TO COMPUTER DRY LAB AREA AND CONFIGURE AS FBSD0300 WITH (3) DATA CABLES TERMINATED IN EACH FLOOR BOX COVER PLATE NUMBERS 9 AND 16 ON SKT-15A.1.

2. IN TESTING PLACE (4) WBFS0200 WITH (2) DATA CABLES AT EACH SINGLE GANG WALL PLATE. THE OWNER IS PROVIDING KI GENIUS WALL PANELS AROUND THE TESTING AREA. THE WALL PANELS WILL BE PROVIDED WITH SINGLE GANG BACK BOXES FOR THESE FOUR FACEPLATES. CABLES SHALL BE ROUTED INTO THE BASE OF THE WALL PANELS FROM THE ACCESS FLOOR. CABLES SHALL ROUTE HORIZONTALLY IN THE BASE OF THE WALL PANELS AND ROUTE VERTICALLY UP TO EACH BACK BOX. FACEPLATES 20, 21, 22, AND 23 ON SKT-15A.1.

3. IN CHECK OUT PLACE (1) WBFS0400 WITH (1) TEL CABLE (3) DATA CABLES AT ONE SINGLE GANG WALL PLATE. THE OWNER IS PROVIDING KI GENIUS WALL PANELS AROUND THE CHECK OUT AREA. THE WALL PANEL WILL BE PROVIDED WITH SINGLE GANG BACK BOX FOR THIS FACEPLATE. CABLES SHALL BE ROUTED INTO THE BASE OF THE WALL PANEL FROM THE ACCESS FLOOR. CABLES SHALL ROUTE HORIZONTALLY IN THE BASE OF THE WALL PANEL AND ROUTE VERTICALLY UP TO THE BACK BOX. FACEPLATE 19 ON SKT-15A.1.

4. IN VIDEO SET UP CHANGE THE FBSD0600 TO (2) WBFD0300 FACEPLATES. THESES DOUBLE GANG FACPELATES WIL BE LOCATED IN MONUMENTS ON THE WORK SURFACE. CABLE WILL ROUTE INTO A 12 INCH WIDE CHASE IN THE CASEWORK AT THIS LOCATION FROM CONDUIT STUBS IN THE FLOOR AND ROUTE INTO THE TWO DOUBLE GANG MONUMENTS THAT WIL BE MOUNTED ON THE WORK SURACE. TELECOM CONTRACTOR TO PROVIDE AND INSTALL THE MONUMENT. MONUMENT SHALL BE A WATERSAVER FAUCET COMPANY WITH POLISHED ALUMINUM FINISH E600WS-PB. PLACE A BLANK POLISHED ALUMINUM FACEPLATE ON THE BACK DOUBLE GANG OPENING. FACEPLATE 24 AND 25 ON SKT-15A.1.

BULLETIN #15A
DSA FILE # 7-C1
DSA APPL # 01-106226

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LICENSED ARCHITECT RICHARD A. MARSHALL JR. NO. C-8685 EXP. 12-31-06 STATE OF CALIFORNIA

BULLETIN #15A
DATE: 03/15/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-2
SHEET: SKT15A.2

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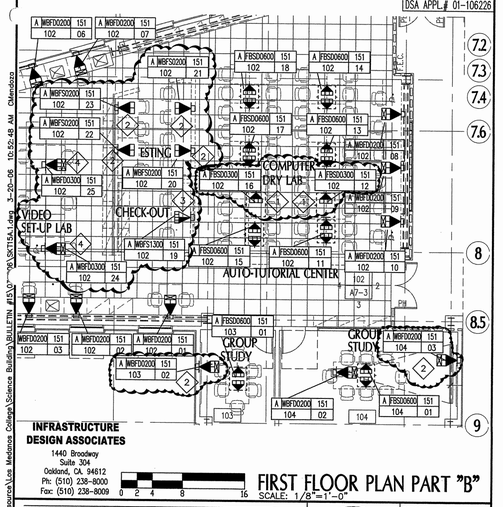
NOTES:
SHEET NOTES ON SKT15A.2

BULLETIN #15A
DSA FILE # 7-C1
DSA APPL # 01-106226

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LICENSED ARCHITECT RICHARD A. MARSHALL JR. NO. C-8685 EXP. 12-31-06 STATE OF CALIFORNIA

BULLETIN #15A
DATE: 03/15/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-2
SHEET: SKT15A.1

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APP. NO. 01-106226
AC. ____ RS. ____ SS. ____
DATE ____
FILE No. 7-C1

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Regional Office
1515 Clay St., Suite 1201
Oakland, CA 94612
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agency

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|
| | | |

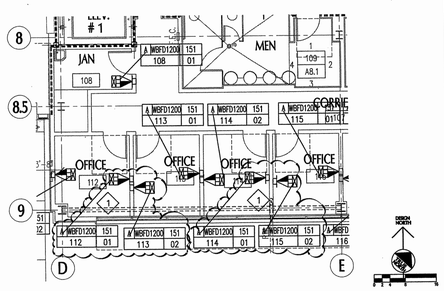
drawing title:
ADDENDUM # 2 DRAWINGS
BULLETIN #13 & 15A

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
ATTACHMENT TO T1-2

NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL.# 01-106226

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FIRST FLOOR PLAN
PART "B"
TELECOM OUTLETS

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BULLETIN #18
DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-1
SHEET: SKT-18.1

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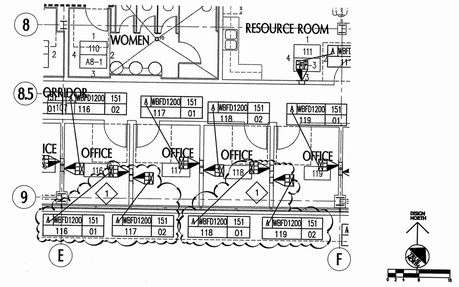
NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL.# 01-106226

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FIRST FLOOR PLAN
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LICENSED ARCHITECT RICHARD A. MANDIN AIA NO. C-8685 REN. 12-31-06 STATE OF CALIFORNIA

BULLETIN #18
DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-1
SHEET: SKT-18.2

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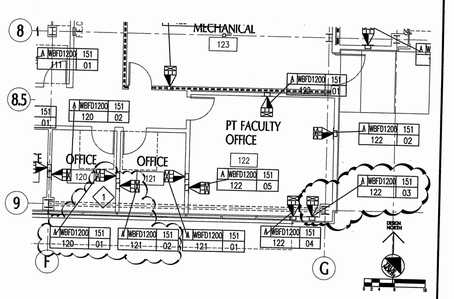
NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL.# 01-106226

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FIRST FLOOR PLAN
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TELECOM OUTLETS

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BULLETIN #18
DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-1
SHEET: SKT-18.3

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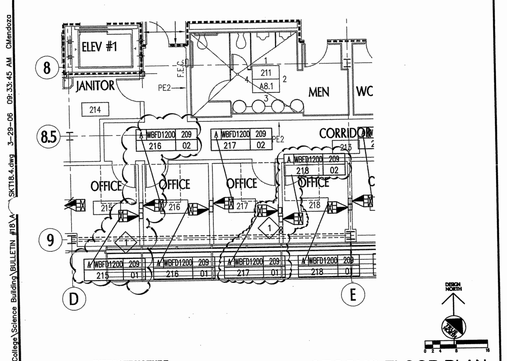
NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL.# 01-106226

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SECOND FLOOR PLAN
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TELECOM OUTLETS

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BULLETIN #18
DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.4

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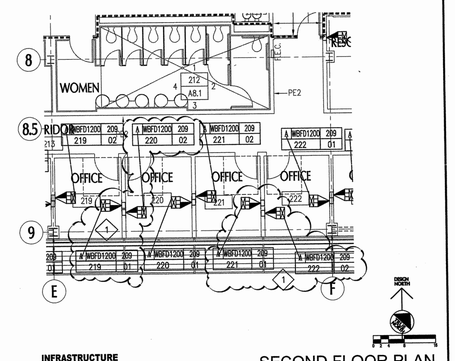
NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL.# 01-106226

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SECOND FLOOR PLAN
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BULLETIN #18
DATE: 03/23/06
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SHEET: T1-4
SHEET: SKT-18.5

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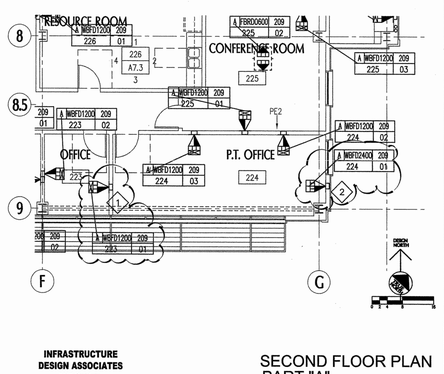
NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.
2. REVISE FACEPLATE TO WBFD2400

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL.# 01-106226

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SECOND FLOOR PLAN
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DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.6

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architect

consultant

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APP. NO. 01-106226
AC. ____ FLS. ____ SS. ____
DATE ____
FILE No. 7-C1

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agency

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 202471.00

file name:

drawn by: checked by:

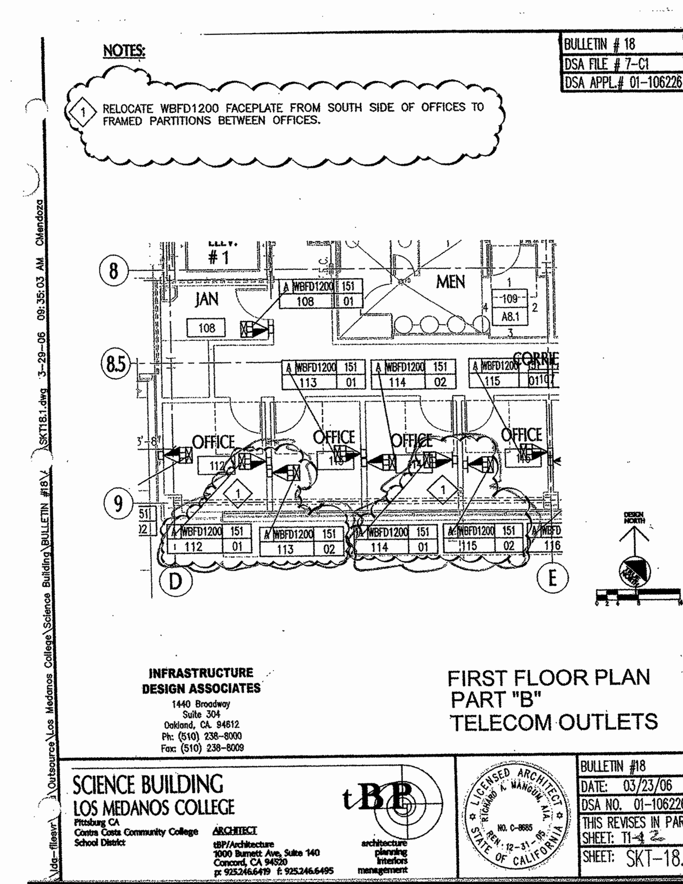
date: NOVEMBER 15, 2004

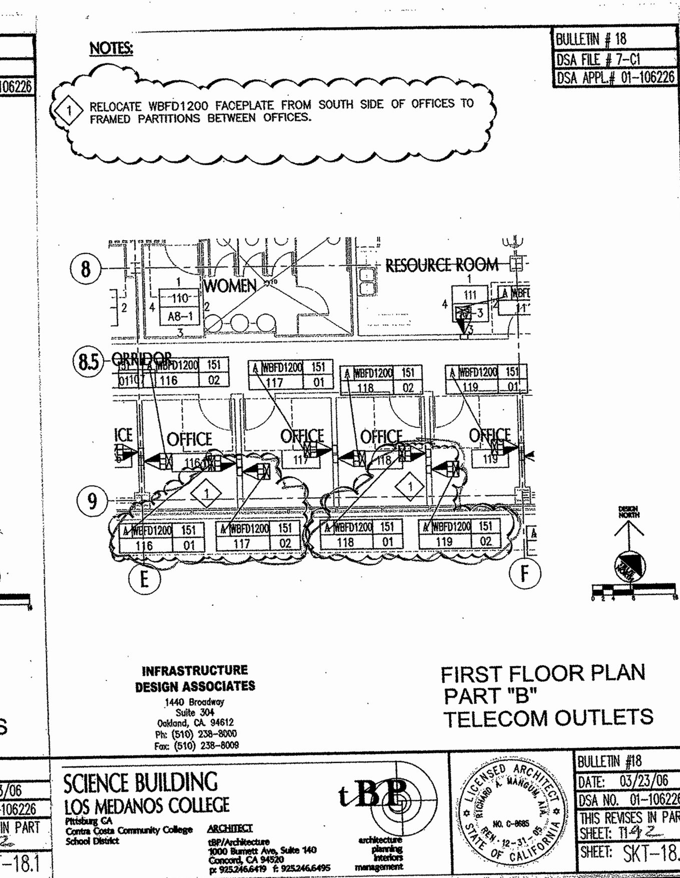
| Rev: | date: | description: |
|---|---|---|

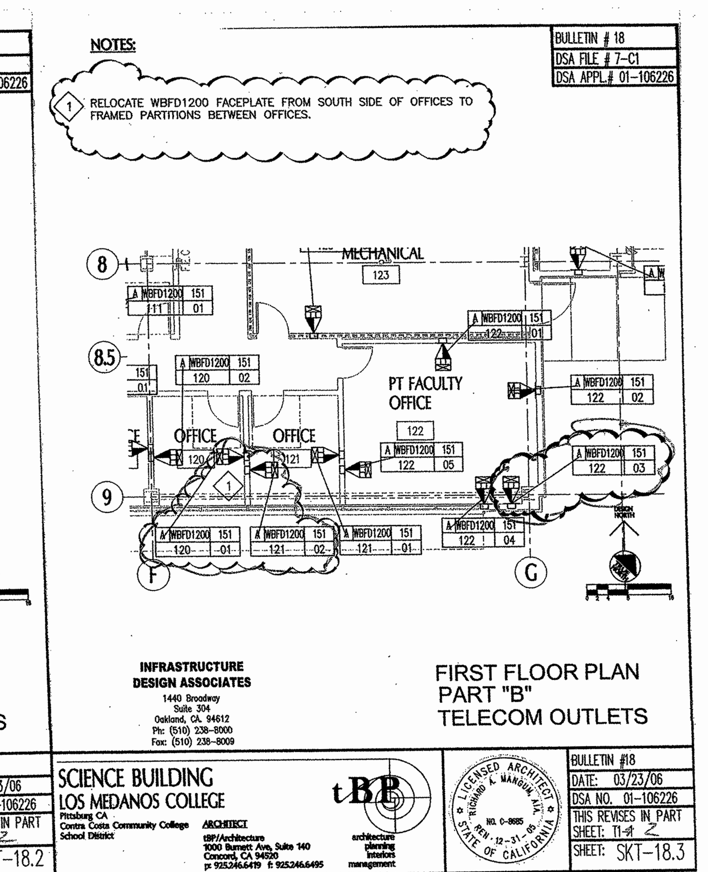
drawing title:
BULLETIN # 18 DRAWINGS

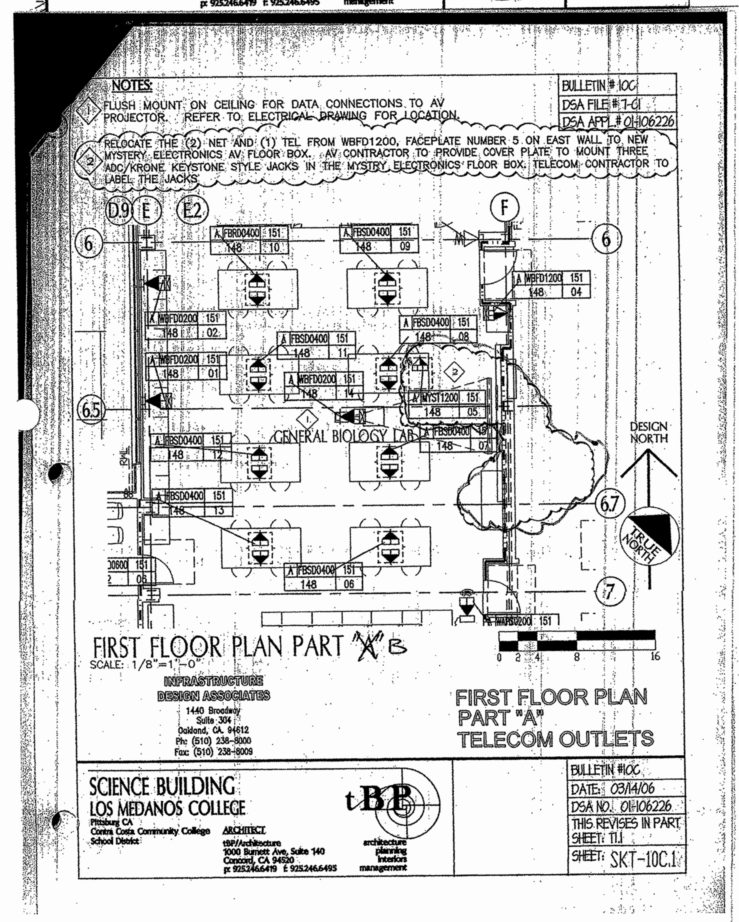
LMC SCIENCE 313-023-T12.01-0-00.00

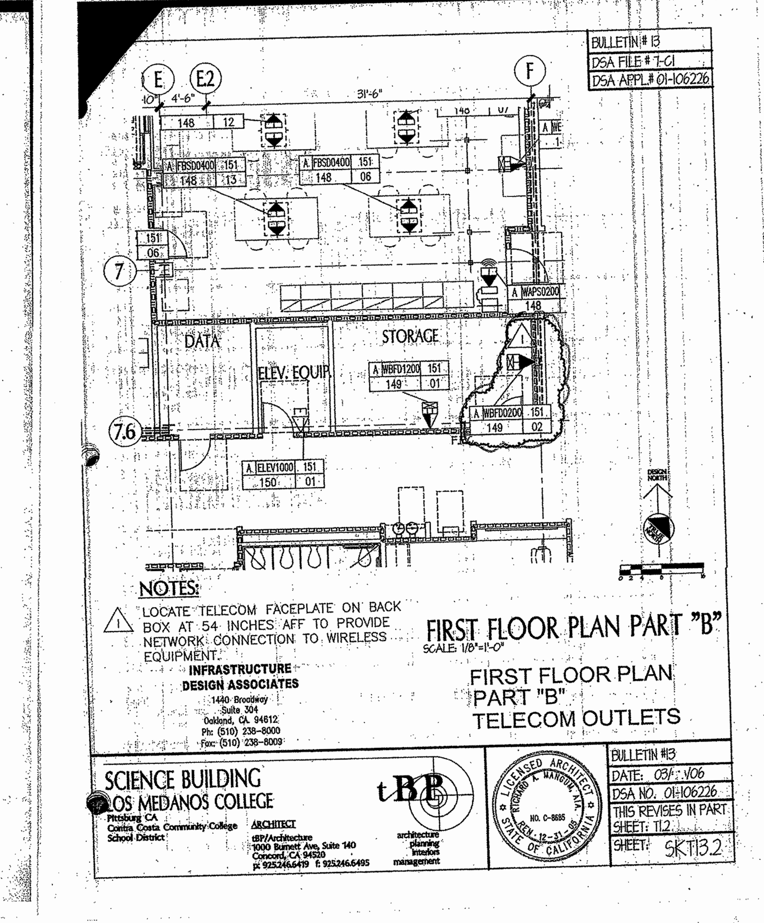
drawing no:
ATTACHMENT TO T1-2

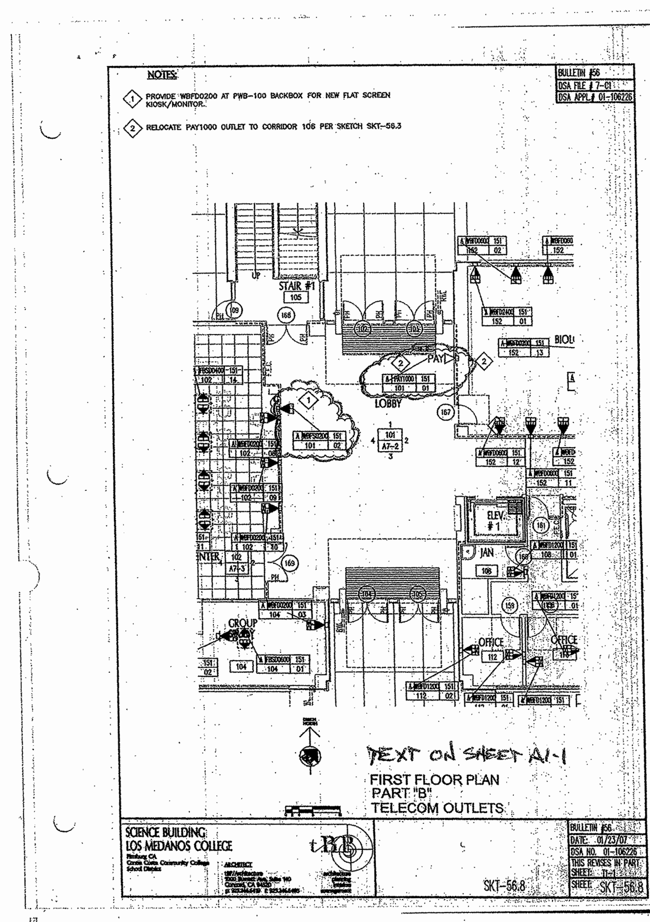


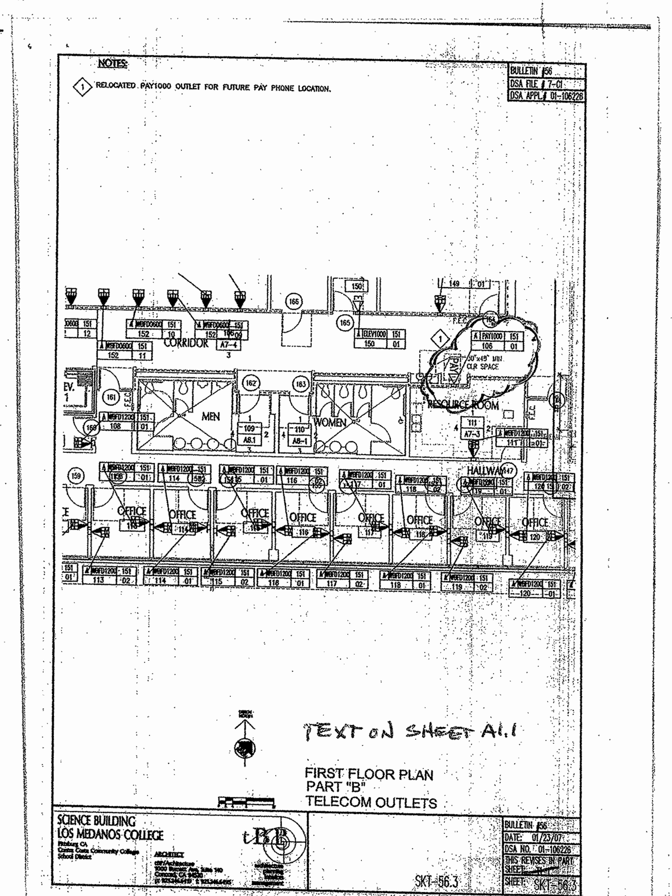



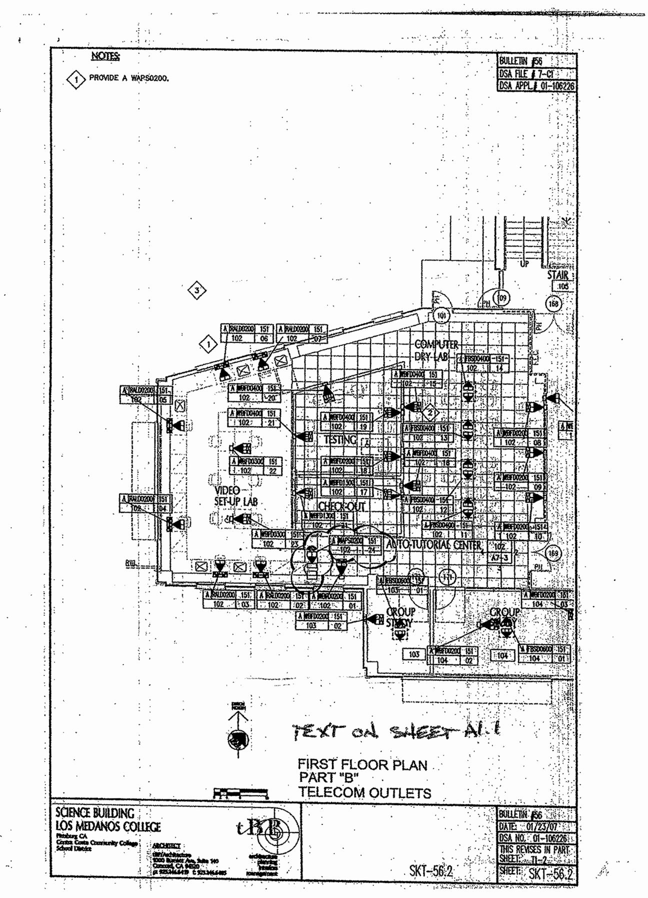




**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

**Project:** LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495

tBP p/n: 20247.00

**Subj.:** Duplicate Data Outlet Label Numbers in Room 102
**Reference (dwg, spec.):**

**RFI No:** 516
Subcontractor RFI:

**Reply Requested By: 4/20/07**

**INFORMATION REQUESTED:** **Date:** 4/13/07

Please note the attached EW Scott RFI No. 84 regarding duplicate data outlet label numbers in room 102. Please advise.

**SUGGESTED SOLUTION:**
**Cost Impact:** ☐ **Schedule Impact:** ☐ days By: Justin Warren

**RESPONSE:** **DATE:**

Yes, Please change the referenced data outlet number to 24.

Jim Weaver / tBP Architecture
D. Buza / IDA

4/19/07

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
**435 HARRIET STREET**
**San Francisco, CA 94103-4914**
**Phone: (415) 626-0701 Fax: (415) 626-2837**

**REQUEST FOR INFORMATION**

**PROJECT:** LMC SCIENCE BLDG. **R.F.I.#** 84 **R.F.I. Date** 4/13/07
**JOB:** 2451 **ACTUAL REPLY DATE** ________

**TO:** MARK DELGADO
**OF:** AMOROSO CONST.
**REF: DWG:** SKT-49.1
**LOCATION:** RM 102

**POTENTIAL COST IMPACT**
___ COST ✓ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

**INFORMATION REQUESTED:** RM 102 SHOWS TWO DATA OUTLETS LABELED #18. WE WOULD LIKE TO CHANGE THE OUTLET INDICATED ON THE ATTACHED SKETCH TO #24

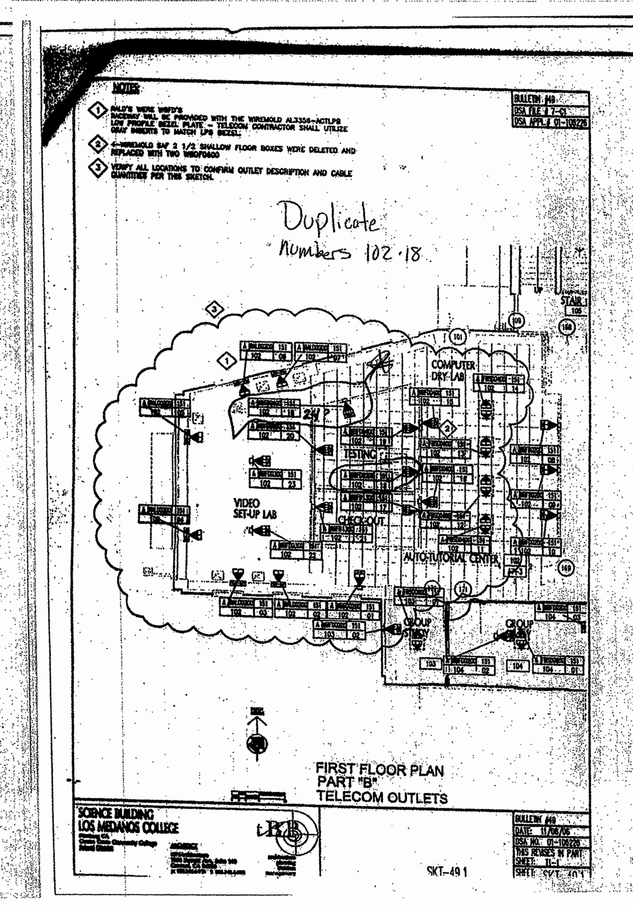
**REPLY REQUIRED BY:** ASAP **SIGNED:** [signature]
**NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.**

**RESPONSE:**

**DATED:** ________ **SIGNED:** ________

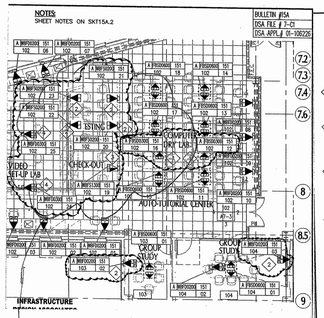
RFIDOC.99

**INDUSTRIAL, COMMERCIAL WIRING & DESIGN**
**STATE CONTRACTOR LICENSE NO. 190426**




Los Medanos College
4CD Proj.#: L-565-B-25-SC
Science Building

1 COORDINATE LOCATION WITH OWNERS REPRESENTATIVE IN CEILING




NOTES:
SHEET NOTES ON SKT15A.2

BULLETIN #15A
DSA FILE # 7-CI
DSA APPL # 01-106226

NOTES:

GENERAL THIS BULLETIN RELOCATES CABLES AND RECONFIGURES TERMINATION COVERPLATES AND FACEPLATES IN ROOM 102 COMPUTER DRY LAB, TESTING, CHECK OUT AND THE VIDEO SET UP LAB BUT DOES NOT ADD ANY CABLES. TWO FLOOR WIREMOLD SAF 2-1/2 FLOOR BOX ENCLOSURES ARE DELETED AND THE CABLES REDISTRIBUTED TO OTHER FACEPLATES IN ROOM 102.

1. RELOCATE THE TWO FBSD0600 WIREMOLD SAF 2-1/2 FLOOR BOXES AND TERMINATIONS FROM THE TESTING AREA TO COMPUTER DRY LAB AREA AND CONFIGURE AS FBSD0300 WITH (3) DATA CABLES TERMINATED IN EACH FLOOR BOX COVER PLATE NUMBERS 9 AND 18 ON SKT-15A.1.

2. IN TESTING PLACE (4) WBFS0200 WITH (2) DATA CABLES AT EACH SINGLE GANG WALL PLATE. THE OWNER IS PROVIDING #3 GENIUS WALL PANELS AROUND THE TESTING AREA. THE WALL PANEL WILL BE PROVIDED WITH SINGLE GANG BACK BOX FOR THIS FACEPLATE. CABLES SHALL BE ROUTED INTO THE BASE OF THE WALL PANELS FROM THE ACCESS FLOOR. CABLES SHALL ROUTE HORIZONTALLY IN THE BASE OF THE WALL PANELS AND ROUTE VERTICALLY UP TO EACH BACK BOX. FACEPLATES 20, 21, 22, AND 23 ON SKT-15A.1.

3. IN CHECK OUT PLACE (1) WBFS0400 WITH (1) TEL CABLE (3) DATA CABLES AT ONE SINGLE GANG WALL PLATE. THE OWNER IS PROVIDING #3 GENIUS WALL PANELS AROUND THE CHECK OUT AREA. THE WALL PANEL WILL BE PROVIDED WITH SINGLE GANG BACK BOX FOR THIS FACEPLATE. CABLES SHALL BE ROUTED INTO THE BASE OF THE WALL PANEL FROM THE ACCESS FLOOR. CABLES SHALL ROUTE HORIZONTALLY IN THE BASE OF THE WALL PANEL AND ROUTE VERTICALLY UP TO THE BACK BOX. FACEPLATE 19 ON SKT-15A.1.

4. IN VIDEO SET UP CHANGE THE FBSD0600 TO (2) WBFD0300 FACEPLATES. THESES DOUBLE GANG FACEPLATES WIL BE LOCATED IN MONUMENTS ON THE WORK SURFACE. CABLE WILL ROUTE INTO A 12 INCH WIDE CHASE IN THE CABINWORK. THE CABLE LOCATION WILL BE DETERMINED BY THE OWNER. THE OWNER IS PROVIDING (2) DOUBLE GANG MONUMENTS THAT WIL BE MOUNTED ON THE WORK SURFACE. TELECOM CONTRACTOR TO PROVIDE AND INSTALL THE MONUMENT. MONUMENT SHALL BE A WATERSAVER FAUCET COMPANY WITH POLISHED ALUMINUM FINISH: ESONRS-PS. PLACE A SLAIN POLISHED ALUMINUM FACEPLATE ON THE BACK DOUBLE GANG OPENING. FACEPLATE 24 AND 25 ON SKT-15A.1.

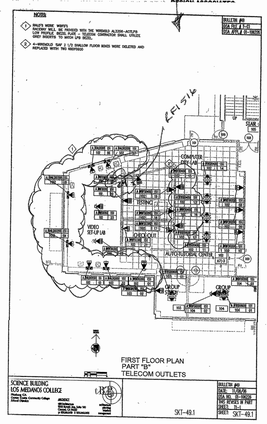
INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
Ph: (510) 238-8000
Fax: (510) 238-8009

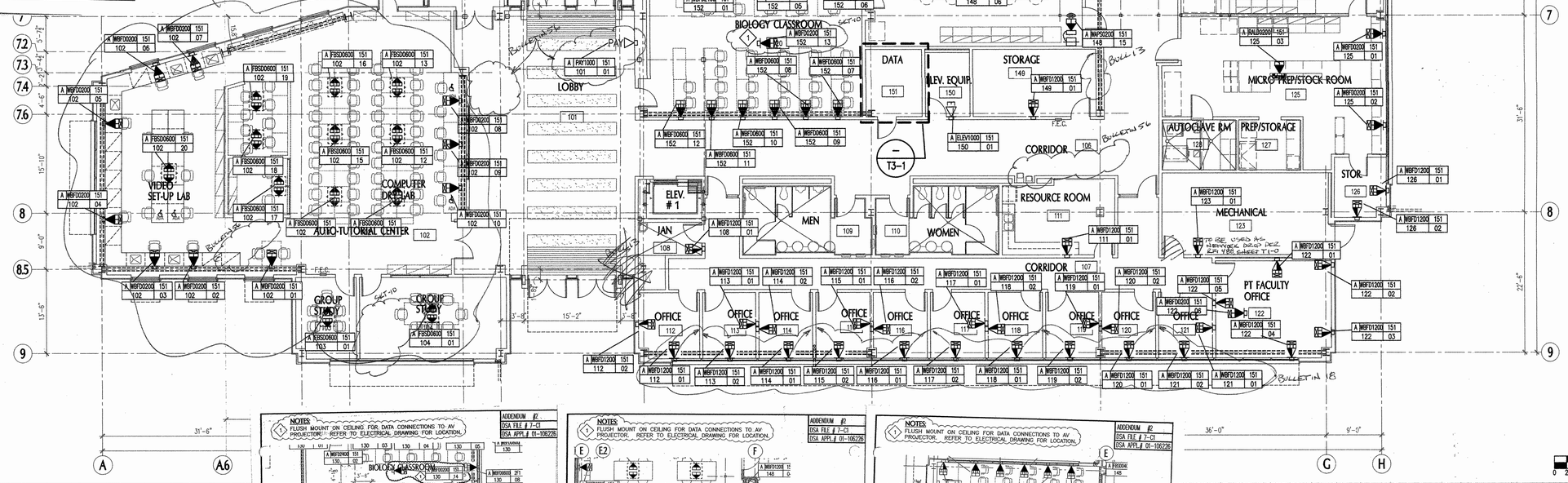
SCIENCE BUILDING
LOS MEDANOS COLLEGE
Contra Costa Community College District
ARCHITECT
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6491 f: 925.246.6495

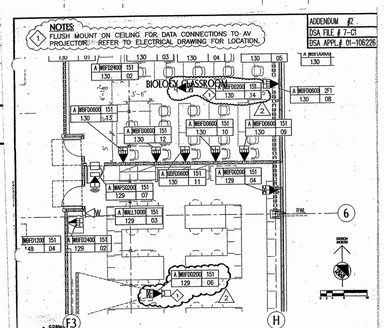
BULLETIN #15A
DATE: 03/15/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-2
SHEET: SKT15A1

BULLETIN #15A
DATE: 03/15/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-2
SHEET: SKT15A2

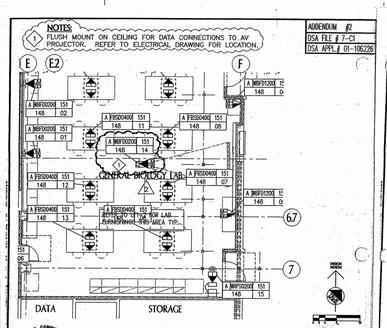
FIRST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"




INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
Ph: (510) 238-8000
Fax: (510) 238-8009
EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE
FIRST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"
FIRST FLOOR PLAN PART "B" TELECOM OUTLETS
SCIENCE BUILDING LOS MEDANOS COLLEGE
ADDENDUM #2
DATE: 05/11/05
DSA NO.: 01-106226
THIS REVISES IN PART
SHEET: T1-2
SHEET: SKT-8

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1440 Broadway
Suite 304
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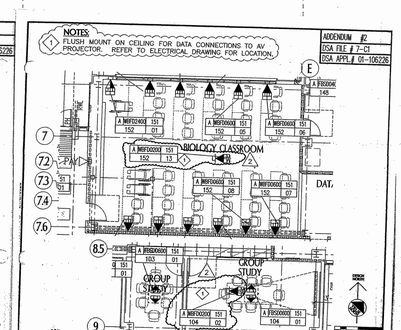
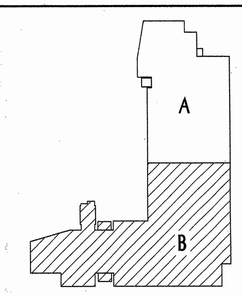
Ph: (510) 238-8000
Fax: (510) 238-8009
EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE
FIRST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"
FIRST FLOOR PLAN PART "B" TELECOM OUTLETS
SCIENCE BUILDING LOS MEDANOS COLLEGE
ADDENDUM #2
DATE: 05/11/05
DSA NO.: 01-106226
THIS REVISES IN PART
SHEET: T1-2
SHEET: SKT-9




INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
Ph: (510) 238-8000
Fax: (510) 238-8009
EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE
FIRST FLOOR PLAN PART "B"
SCALE: 1/8"=1'-0"
FIRST FLOOR PLAN PART "B" TELECOM OUTLETS
SCIENCE BUILDING LOS MEDANOS COLLEGE
ADDENDUM #2
DATE: 05/11/05
DSA NO.: 01-106226
THIS REVISES IN PART
SHEET: T1-2
SHEET: SKT-10

FIRST FLOOR PLAN PART "B" SCALE: 1/8"=1'-0" | 1 | KEY PLAN




tBP architecture planning interiors management
tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6491 f: 925.246.6495

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
EXPIRES 12/31/06
Regis. No. 06606
SIGNATURE

consultant

DSA IDENTIFICATION STAMP
OFFICE OF REGULATION SERVICES
APP. 01-106226
AC
DATE 1-13-05

name
address
city, state, zip
ph: fc:

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Contra Costa Community College District

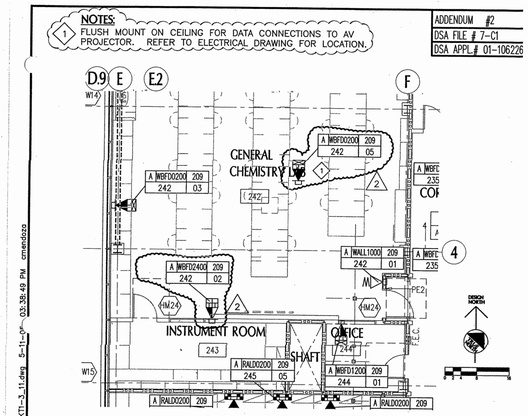
owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

1/8"=1'-0"

drawing title: FIRST FLOOR PLAN PART "B" TELECOM OUTLETS
building no.: LMC SCIENCE 313-023-T12.01-0-00.00
drawing no.: T1-2
of

c:\Los Medanos College\Science Building\First DSA\acad\T1-2.dwg 12-13-04 09:10:37 AM crmendoza

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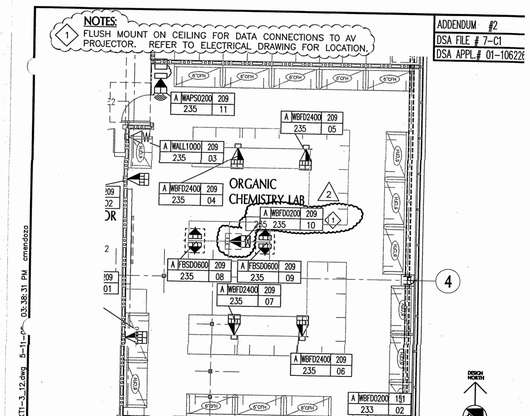
EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE

SECOND FLOOR PLAN PART "A"
TELECOM OUTLETS

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg, CA
Contra Costa Community College District
ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.3
SHEET: SKT-11




INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
Ph: (510) 238-8000
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SECOND FLOOR PLAN PART "B"
TELECOM OUTLETS

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

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg, CA
Contra Costa Community College District
ARCHITECT
tBP/Architecture
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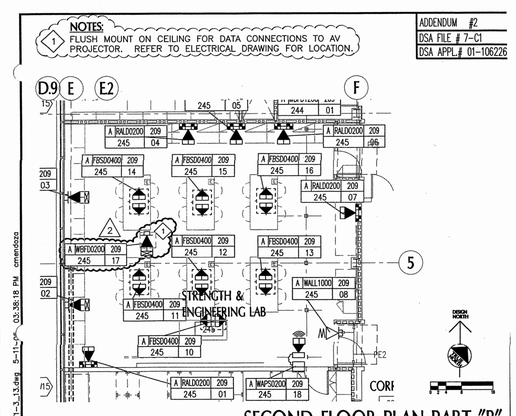
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.3
SHEET: SKT-12

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EXPIRES 12/31/05
Regis. No. 05229
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SECOND FLOOR PLAN PART "B"
TELECOM OUTLETS

SCIENCE BUILDING
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Pittsburg, CA
Contra Costa Community College District
ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.3
SHEET: SKT-13

tBP
architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP. NO. 01-106226
AC. ____ FIS. ____ SS. ____
DATE ____
FILE No. 7-C1

Division of the State Architect
Regional Office
1515 Clay St., Suite 1201
Oakland, CA 94612
p: 415-396-9500 f:

agency

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

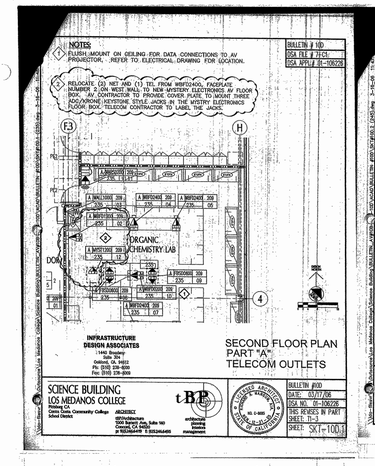
drawn by: checked by:

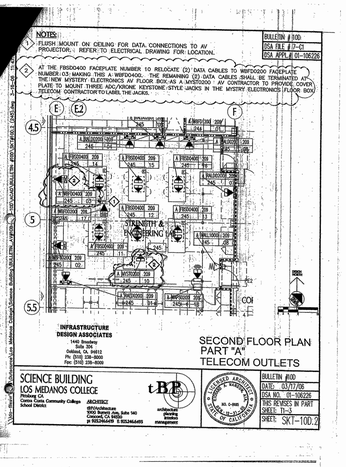
date: NOVEMBER 15, 2004

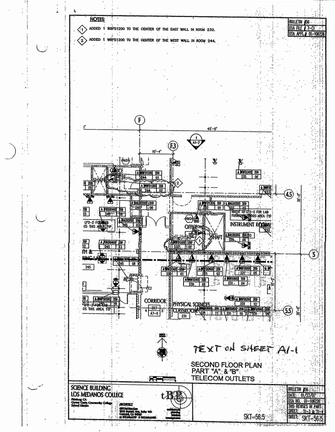
| Rev: | date: | description: |
|---|---|---|

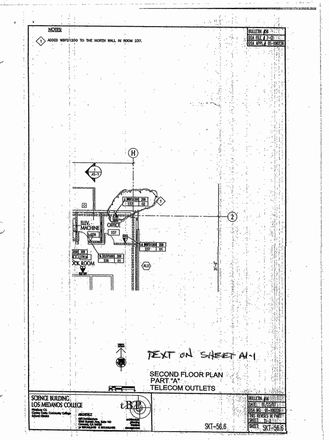
drawing title:
ADDENDUM #2 DRAWINGS

LMC SCIENCE 313-023-T12.01-0-00.00
drawing no.:
ATTACHMENT TO T1-3


NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.
2. RELOCATE (3) NEI JAKS (13) TEL FROM WBFD2400, FACEPLATE NUMBER 9, ON WEST WALL TO NEW MYSTERY ELECTRONICS AV FLOOR BOX. AV CONTRACTOR TO PROVIDE COVER PLATE TO MOUNT THREE ADU/ARONE KEYSTONE STYLE JACKS IN THE MYSTERY ELECTRONICS FLOOR BOX. TELECOM CONTRACTOR TO LABEL THE JACKS.
BULLETIN # 10D
DSA FILE # 21-C1
DSA APPL # 01-106726
ORGANIC CHEMISTRY LAB
INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway Suite 300
Oakland, CA 94612
Ph: (510) 238-8000
Fax: (510) 238-8005
SECOND FLOOR PLAN
PART "A"
TELECOM OUTLETS
SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg, CA
Contra Costa Community College School District
ARCHITECT
SHO Architects
2000 Powell St., Suite 160
Emeryville, CA 94608
p: 5102654600 f: 5102654605
tBP
architecture planning interiors management
BULLETIN #10D
DATE: 07/17/06
DSA NO. 01-106726
THIS SHEET IS IN PART
SHEET: 1-3
SHEET: SKT-100.1

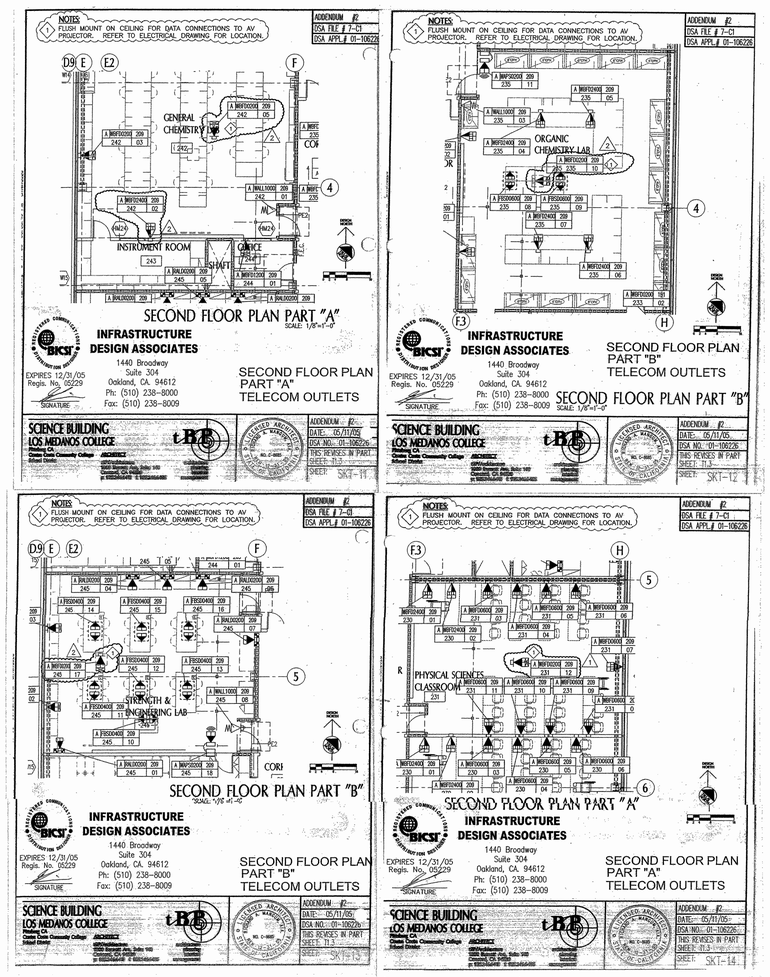

NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.
2. AT THE FBSD0400 FACEPLATE NUMBER 10 RELOCATE (2) DATA CABLES TO WBFD0200 FACEPLATE NUMBER (3) MAKING THIS A WBFD0400. THE REMAINING (2) DATA CABLES SHALL BE TERMINATED AT THE NEW MYSTERY ELECTRONICS AV FLOOR BOX AS A MYST0200 . AV CONTRACTOR TO PROVIDE COVER PLATE TO MOUNT THREE ADU/ARONE KEYSTONE STYLE JACKS IN THE MYSTERY ELECTRONICS FLOOR BOX. TELECOM CONTRACTOR TO LABEL THE JACKS.
BULLETIN # 10D
DSA FILE # 21-C1
DSA APPL # 01-106726
STRENGTH & CONDITIONING
INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway Suite 300
Oakland, CA 94612
Ph: (510) 238-8000
Fax: (510) 238-8005
SECOND FLOOR PLAN
PART "A"
TELECOM OUTLETS
SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg, CA
Contra Costa Community College School District
ARCHITECT
SHO Architects
2000 Powell St., Suite 160
Emeryville, CA 94608
p: 5102654600 f: 5102654605
tBP
architecture planning interiors management
BULLETIN #10D
DATE: 07/17/06
DSA NO. 01-106726
THIS SHEET IS IN PART
SHEET: 1-3
SHEET: SKT-100.2

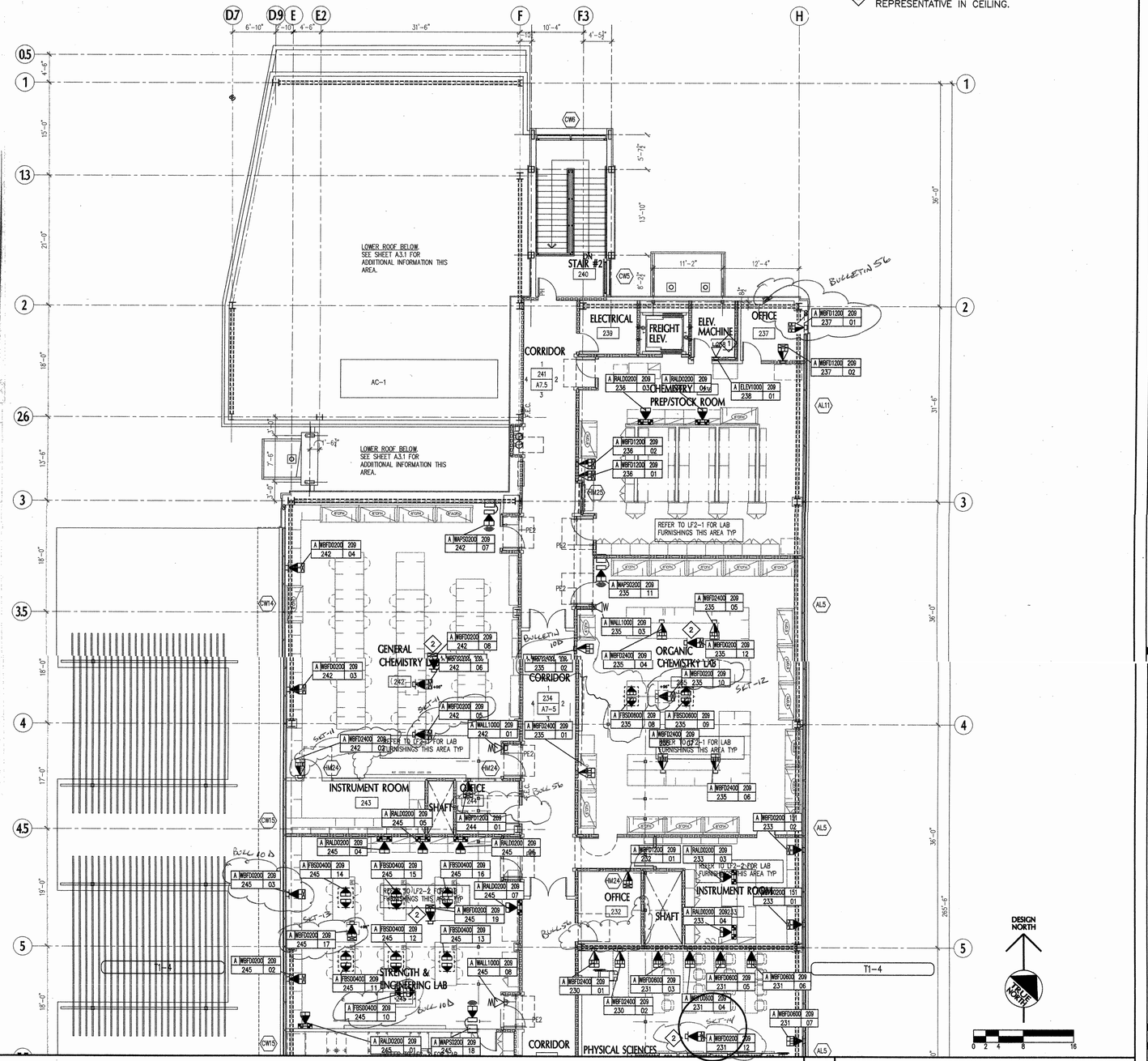

NOTES:
1. ADDED 1 WBFD1200 TO THE CENTER OF THE EAST WALL IN ROOM 230.
2. ADDED 1 WBFD1200 TO THE CENTER OF THE WEST WALL IN ROOM 244.
BULLETIN #9
DSA FILE # 21-C1
DSA APPL # 01-106726
SERVICE ROOM
CORRIDOR
PHYSICAL SCIENCE LABORATORY
TEXT ON SHEET A1-1
SECOND FLOOR PLAN
PART "A" & "B"
TELECOM OUTLETS
SCIENCE BUILDING
LOS MEDANOS COLLEGE
SKT-56.5


NOTES:
1. ADDED WBFD1200 TO THE NORTH WALL IN ROOM 220.
BULLETIN #9
DSA FILE # 21-C1
DSA APPL # 01-106726
XX-BOOK
TEXT ON SHEET A1-1
SECOND FLOOR PLAN
PART "A"
TELECOM OUTLETS
SCIENCE BUILDING
LOS MEDANOS COLLEGE
SKT-56.6

**KEY NOTES:**

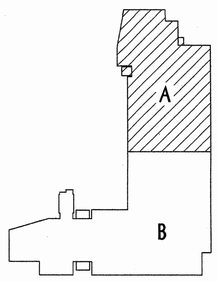
1. COORDINATE LOCATION WITH APPROVED ELEVATOR EQUIPMENT ROOM SUBMITTALS.
2. COORDINATE LOCATION WITH OWNERS REPRESENTATIVE IN CEILING.




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

1 KEY PLAN





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architecture
planning
interiors
management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495


INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA 94612
EXPIRES 12/31/06
Regis. No. 06506
SIGNATURE

consultant

DIVISION OF STATE ARCHITECT
DSA SCHOOL SECTION
OFFICE OF REGULATION SERVICES
APP. - 01-106226
DATE 1-11-05

name
address
city, state, zip
ph:
fc:

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

1/8"=1'-0"

drawing title: building no:
SECOND FLOOR PLAN PART "A" TELECOM OUTLETS

LMC SCIENCE 313-023-112.01-0-00.00

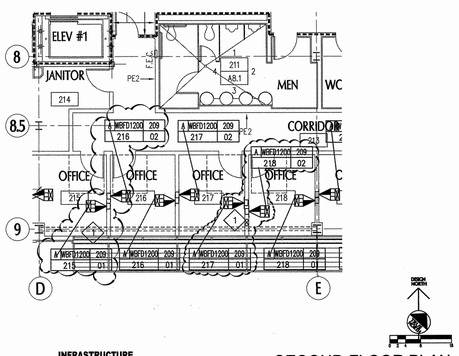
drawing no:
T1-3
drawing of

G:\Los Medanos College\Science Building\Final DSA\acad\T1-3.dwg 12-13-04 09:13:35 AM cmendoza

NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL# 01-106226

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Oakland, CA. 94612
Ph: (510) 238-8000
Fax: (510) 238-8009

SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg CA
Contra Costa Community College School District

ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architecture planning interiors management

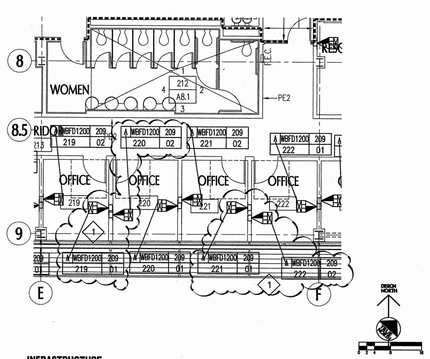
LICENSED ARCHITECT RICHARD A. MANDRIN AIA NO. C-8685 REN. 12-31-06 STATE OF CALIFORNIA

BULLETIN #18
DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.4

NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL# 01-106226

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SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

SCIENCE BUILDING
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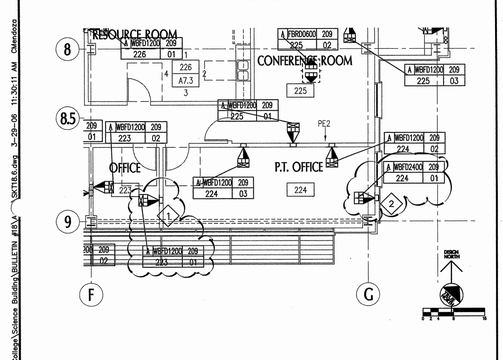
LICENSED ARCHITECT RICHARD A. MANDRIN AIA NO. C-8685 REN. 12-31-06 STATE OF CALIFORNIA

BULLETIN #18
DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.5

NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.
2. REVISE FACEPLATE TO WBFD2400

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL# 01-106226

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SECOND FLOOR PLAN
PART "A"
TELECOM OUTLETS

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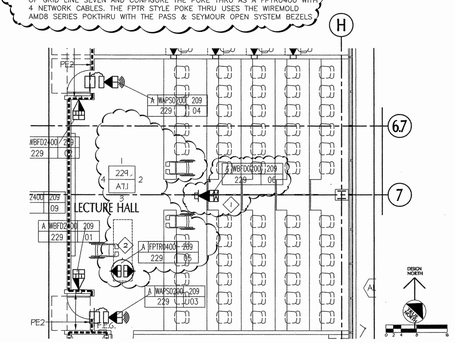
LICENSED ARCHITECT RICHARD A. MANDRIN AIA NO. C-8685 REN. 12-31-06 STATE OF CALIFORNIA

BULLETIN #18
DATE: 03/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.6

NOTES:

1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.
2. RELOCATE THE (2) NETWORK CABLES FROM THE FPFD0200 POKTHRU ON THE NORTH SIDE OF GRID LINE 7 TO THE POKE THRU ON THE SOUTH SIDE OF GRID LINE SEVEN AND CONFIGURE THE POKE THRU AS A FPTR0400 WITH 4 NETWORK CABLES. THE FPTR STYLE POKE THRU USES THE WIREMOLD AMDB SERIES POKTHRU WITH THE PASS & SEYMOUR OPEN SYSTEM BEZELS

BULLETIN # 10D
DSA FILE # T-C1
DSA APPL# 01-106226

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SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

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

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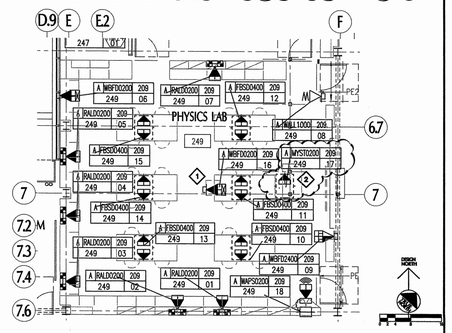
LICENSED ARCHITECT RICHARD A. MANDRIN AIA NO. C-8685 REN. 12-31-06 STATE OF CALIFORNIA

BULLETIN #10D
DATE: 03/14/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.4
SHEET: SKT-10D.4

NOTES:

1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.
2. AT THE WBFD0200, FACEPLATE NUMBER 17 THE (2) DATA CABLES SHALL BE TERMINATED AT THE NEW MYSTERY ELECTRONICS AV FLOOR BOX AS A MYST0200 AV CONTRACTOR TO PROVIDE COVER PLATE TO MOUNT THREE ADC/KRONE KEYSTONE STYLE JACKS IN THE MYSTRY ELECTRONICS FLOOR BOX. TELECOM CONTRACTOR TO LABEL THE JACKS.

BULLETIN # 10D
DSA FILE # 7-C1
DSA APPL# 01-106226

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SECOND FLOOR PLAN
PART "B"
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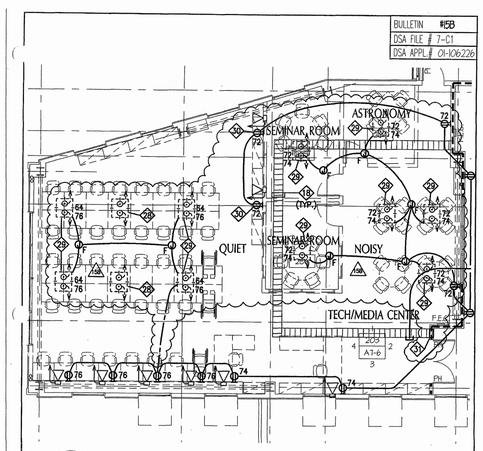
LICENSED ARCHITECT RICHARD A. MANDRIN AIA NO. C-8685 REN. 12-31-06 STATE OF CALIFORNIA

BULLETIN #10D
DATE: 03/17/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-10D.3

BULLETIN #15B
DSA FILE # 7-C1
DSA APPL# 01-106226

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LICENSED ARCHITECT RICHARD A. MANDRIN AIA NO. C-8685 REN. 12-31-06 STATE OF CALIFORNIA

BULLETIN #15B
DATE: 5/4/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: RE-2.4
SHEET: SKE-15B-1


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AC. ____ FIS ____ SS. ____
DATE ____
FILE No. 7-C1

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Oakland, CA 94612
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agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 202471.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

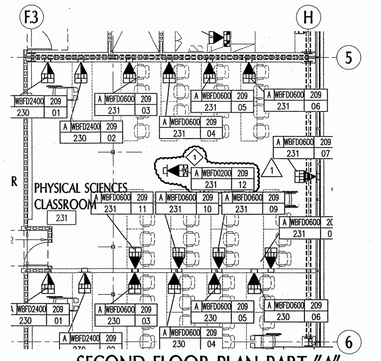
| Rev: | date: | description: |
|---|---|---|

BULLETIN 18, 10D & 15B DRAWINGS

ATTACHMENT TO T1-4

NOTES:
1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226




## SECOND FLOOR PLAN PART "A"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SECOND FLOOR PLAN PART "A" TELECOM OUTLETS

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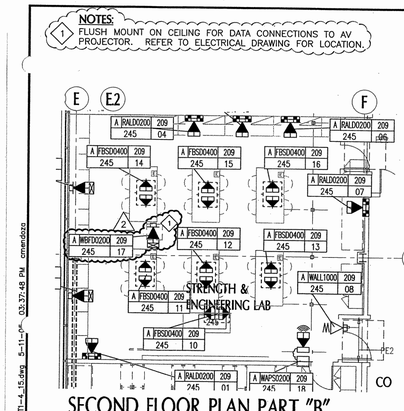
RICHARD A. MANDIN NO. C-8685 REN. 12-31-05 STATE OF CALIFORNIA

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.3
SHEET: SKT-14




## SECOND FLOOR PLAN PART "B"

SCALE: 1/8"=1'-0"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SECOND FLOOR PLAN PART "B" TELECOM OUTLETS

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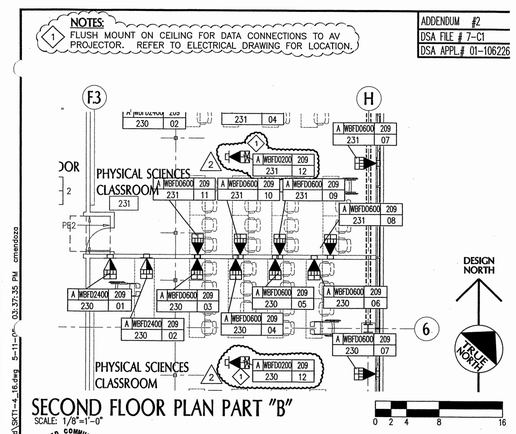
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.4
SHEET: SKT-15




## SECOND FLOOR PLAN PART "B"

SCALE: 1/8"=1'-0"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SECOND FLOOR PLAN PART "B" TELECOM OUTLETS

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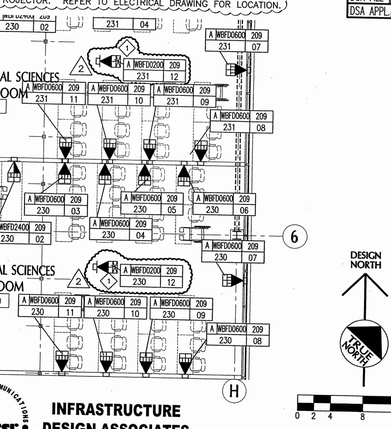
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.4
SHEET: SKT-16




## SECOND FLOOR PLAN PART "B"

SCALE: 1/8"=1'-0"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SECOND FLOOR PLAN PART "B" TELECOM OUTLETS

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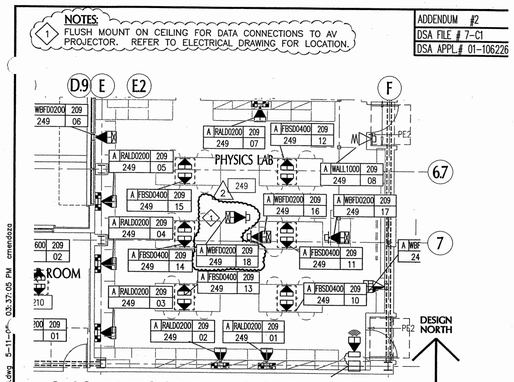
RICHARD A. MANDIN NO. C-8685 REN. 12-31-05 STATE OF CALIFORNIA

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.4
SHEET: SKT-17




## SECOND FLOOR PLAN PART "B"

SCALE: 1/8"=1'-0"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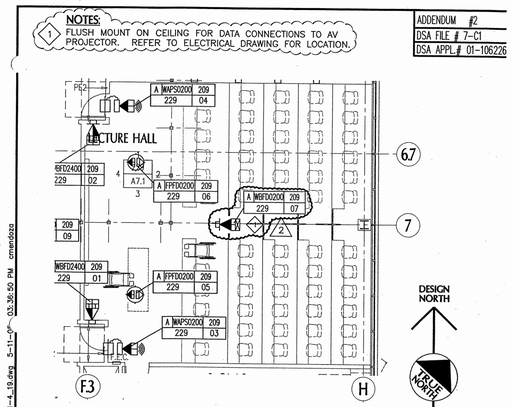
RICHARD A. MANDIN NO. C-8685 REN. 12-31-05 STATE OF CALIFORNIA

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.4
SHEET: SKT-18




## SECOND FLOOR PLAN PART "B"

SCALE: 1/8"=1'-0"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ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1.4
SHEET: SKT-19


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LICENSED ARCHITECT RICHARD A. MANDIN NO. C-8685 STATE OF CALIFORNIA

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consultant

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APP. NO. 01-106226
AC. FLS SS.
DATE
FILE No. 7-C1

agency

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Oakland, CA 94612
p. 415-396-9500 f.

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|

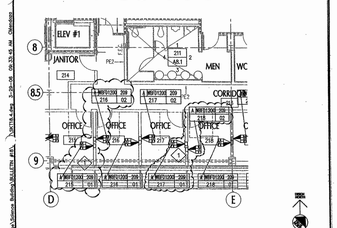
drawing title:
ADDENDUM # 2 DRAWINGS

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.:
ATTACHMENT TO T1-4

NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL # 01-106226

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SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

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LICENSED ARCHITECT
RICHARD L. BRAND
No. C-9809
STATE OF CALIFORNIA

BULLETIN #18
DATE: 07/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.4

NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL # 01-106226




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SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

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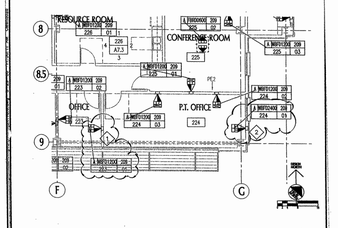
BULLETIN #18
DATE: 07/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.5

NOTES:

1. RELOCATE WBFD1200 FACEPLATE FROM SOUTH SIDE OF OFFICES TO FRAMED PARTITIONS BETWEEN OFFICES.
2. REVISE FACEPLATE TO WBFD2400

BULLETIN # 18
DSA FILE # 7-C1
DSA APPL # 01-106226

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SECOND FLOOR PLAN
PART "A"
TELECOM OUTLETS

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RICHARD L. BRAND
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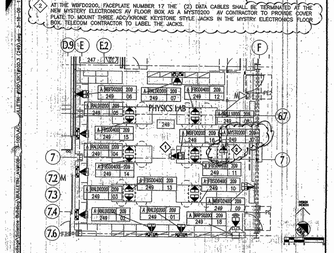
STATE OF CALIFORNIA

BULLETIN #18
DATE: 07/23/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-18.6

NOTES:

1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.
2. AT THE MYSTERY ELECTRONICS AV FLOOR BOX, THE CO DATA CABLES SHALL BE TERMINATED AT THE NEW MYSTERY ELECTRONICS AV FLOOR BOX. REQUIRE THE MYSTERIOUS AV CONTRACTOR TO PROVIDE COVER PLATE TO MOUNT THREE ADC/KRONE KEYSTONE STYLE JACKS IN THE MYSTERY ELECTRONICS FLOOR BOX. TELECOM CONTRACTOR TO LABEL THE JACKS.

BULLETIN #100
DSA FILE #7-C1
DSA APPL # 01-106226

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SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

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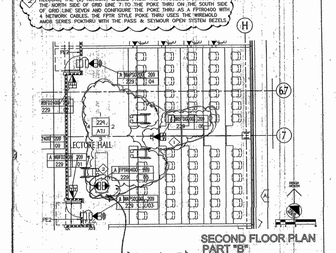
LICENSED ARCHITECT
RICHARD L. BRAND
No. C-9809
STATE OF CALIFORNIA

BULLETIN #100
DATE: 07/07/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-100.3

NOTES:

1. FLUSH MOUNT ON CEILING FOR DATA CONNECTIONS TO AV PROJECTOR. REFER TO ELECTRICAL DRAWING FOR LOCATION.
2. REUSE THE (2) NETWORK CABLES FROM THE PFD2000 PORTHRU ON THE NORTH SIDE OF GRID LINE 7-1 TO THE POKE THRU ON THE SOUTH SIDE OF GRID LINE SEVEN AND CONFIGURE THE POKE THRU AS A PFD9400 WITH 4 NETWORK CABLES. THE FFFR STYLE POKE THRU USES THE WIREMOLD JACKS SERIES PORTHRU WITH THE PASS & NETWORK OPEN SYSTEM BEZELS.

BULLETIN # 100
DSA FILE # 3-C1
DSA APPL # 06-106226




DESIGNATED RM 325

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 301
Oakland, CA 94612
Ph: (510) 236-8600
Fax: (510) 236-8609

SECOND FLOOR PLAN PART "B"
SCALE: 1/8"=1'0"

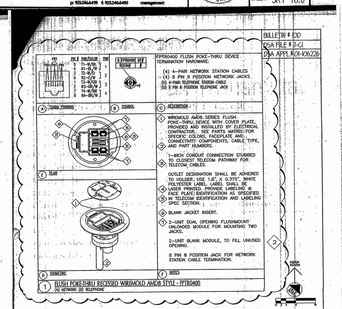
SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg, CA
Contra Costa Community College District

ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p 925.246.6495 f 925.246.6495

architecture planning interiors sustainable design management

LICENSED ARCHITECT
RICHARD L. BRAND
No. C-9809
STATE OF CALIFORNIA

BULLETIN #100
DATE: 05/14/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T1-4
SHEET: SKT-100.4




INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
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Oakland, CA 94612
Ph: (510) 236-8600
Fax: (510) 236-8609

SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

SECOND FLOOR PLAN PART "B"
SCALE: 1/8"=1'0"

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg, CA
Contra Costa Community College District

ARCHITECT
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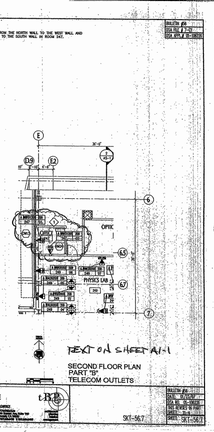
LICENSED ARCHITECT
RICHARD L. BRAND
No. C-9809
STATE OF CALIFORNIA

BULLETIN #100
DATE: 05/14/06
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: -
SHEET: SKT-100.5

NOTES:

1. MOVE WBFD1200 FROM THE NORTH WALL TO THE WEST WALL AND MOVE 1 WBFD2400 TO THE SOUTH WALL AS SHOWN SKT.

BULLETIN #8
DSA FILE # 7-C1
DSA APPL # 01-106226




SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

SCIENCE BUILDING
LOS MEDANOS COLLEGE

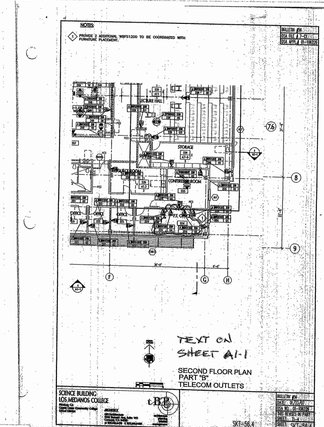
ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p 925.246.6495 f 925.246.6495

BULLETIN #8
DATE: 01/31/07
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: -
SHEET: SKT-56.7

NOTES:

1. PROJECT 2 WIREMOLD WBFD1200 TO BE COORDINATED WITH PURCHASE PLACEMENT.

BULLETIN #8
DSA FILE # 7-C1
DSA APPL # 01-106226




SECOND FLOOR PLAN
PART "B"
TELECOM OUTLETS

SCIENCE BUILDING
LOS MEDANOS COLLEGE

ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p 925.246.6495 f 925.246.6495

BULLETIN #8
DATE: 01/31/07
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: -
SHEET: SKT-56.8

## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Subj.: Data/Telephone Outlets Questions
Reference (dwg, spec.): E-1.4
Reply Requested By: 3/21/07

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00
RFI No: 505
Subcontractor RFI: EWS 80

INFORMATION REQUESTED: Date: 3/14/07

Please note the attached EWS RFI No. 80 regarding Data and Telephone Outlets questions for rooms 203, 214 and 229. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:

Item #1 - No cables need to be provided to the backbox in the Janitors closet.

Item #2 - It is acceptable to change the outlet designation to 16 & 17.

Item #3 - The outlets type is found on SKT-10D. 1 and requires the AV contractor to provide a cover plate to mount three ADC/Krone style jacks in the Mystery Electronics floor box.

Jim Weaver / tBP Architecture
D. Buza / IDA.

4/4/07

RFI # 000
Page 1

## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SCIENCE BLDG. R.F.I. # 30 R.F.I. Date 3/14/07
JOB: 2451 ACTUAL REPLY DATE

TO: MARK DELGADO
CO: AMOROSO CONST.
REF. DWG: E3.1, TYP. RM. 104
LOCATION: RM. 104, 203 & 229

POTENTIAL COST IMPACT: ___ COST, ___ OTHER, ___ NO IMPACT, X SCHEDULE, ___ LABOR, ___ MATERIAL

INFORMATION REQUESTED: ELEC. DWG. SHEET SHOWS A TEL. OUTLET IN JAN. CLOSET 214. THIS OUTLET IS NOT SHOWN ON DWG. T1.4 WE NEED AN ADDRESS AND THE NUMBER OF CABLES NEEDED.
ALSO, ISO ADDED 2 DATA OUTLETS ON THE DEMONSTRATION CABLES IN RM. 203. THESE OUTLETS HAVE BEEN LABELED 15 & 16 WHICH ARE ALREADY BEING USED. CAN WE CHANGE THESE TO 16 & 17? LIKWISE ISO ADDED A DUAL ELEC. BOX IN RM. 229 WITH 2 DATA OUTLETS. WE ARE UNABLE TO FIND A DESIGNATION FOR THESE OUTLETS. PLEASE ADVISE.

REPLY REQUIRED BY: SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190438

## S. J. AMOROSO
Request For Information/Clarification

DSA FILE NO. 7-C1
DSA APPL. No. 01-106226

To: tBP/Architecture, 1000 Burnett Ave, Suite 140, Concord, CA 94520
Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495
Subj.: Projector Label Number
Reference (dwg, spec.):
Reply Requested By: 4/16/07

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING, Contra Costa Community College District
tBP p/n: 20247.00
RFI No: 513
Subcontractor RFI: EWS 82

INFORMATION REQUESTED: Date: 4/9/07

Please note the attached EW Scott RFI No. 82 regarding the added data outlet for the projector. The outlet is labeled #18 which is already used, should the projector be labeled #19. Please advise.

SUGGESTED SOLUTION:
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

RESPONSE: DATE:

No exception taken to labeling the above mentioned data outlet as #19.

Jim Weaver / tBP Architecture
Dave Buza / IDA

4/11/07

RFI # 000
Page 1

cc: EW scott

## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SITE IMPROVEMENT R.F.I. # 82 R.F.I. Date 4/4/07
JOB: 2416 ACTUAL REPLY DATE

TO: JUSTIN WARREN
CO: AMOROSO CONST.
REF. DWG: T1.4 & ARCH E1
LOCATION: RM. 214

POTENTIAL COST IMPACT: ___ COST, ___ OTHER, ___ NO IMPACT, X SCHEDULE, ___ LABOR, ___ MATERIAL

INFORMATION REQUESTED: ADDENDUM 7 ADDED A DATA OUTLET FOR THE PROJECTOR. IT IS LABELED #18. THERE IS ALREADY AN OUTLET IN THE RM. LABELED #18 & WE WOULD LIKE TO LABEL THE ADDED PROJECTOR OUTLET #19.

REPLY REQUIRED BY: ASAP SIGNED:
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

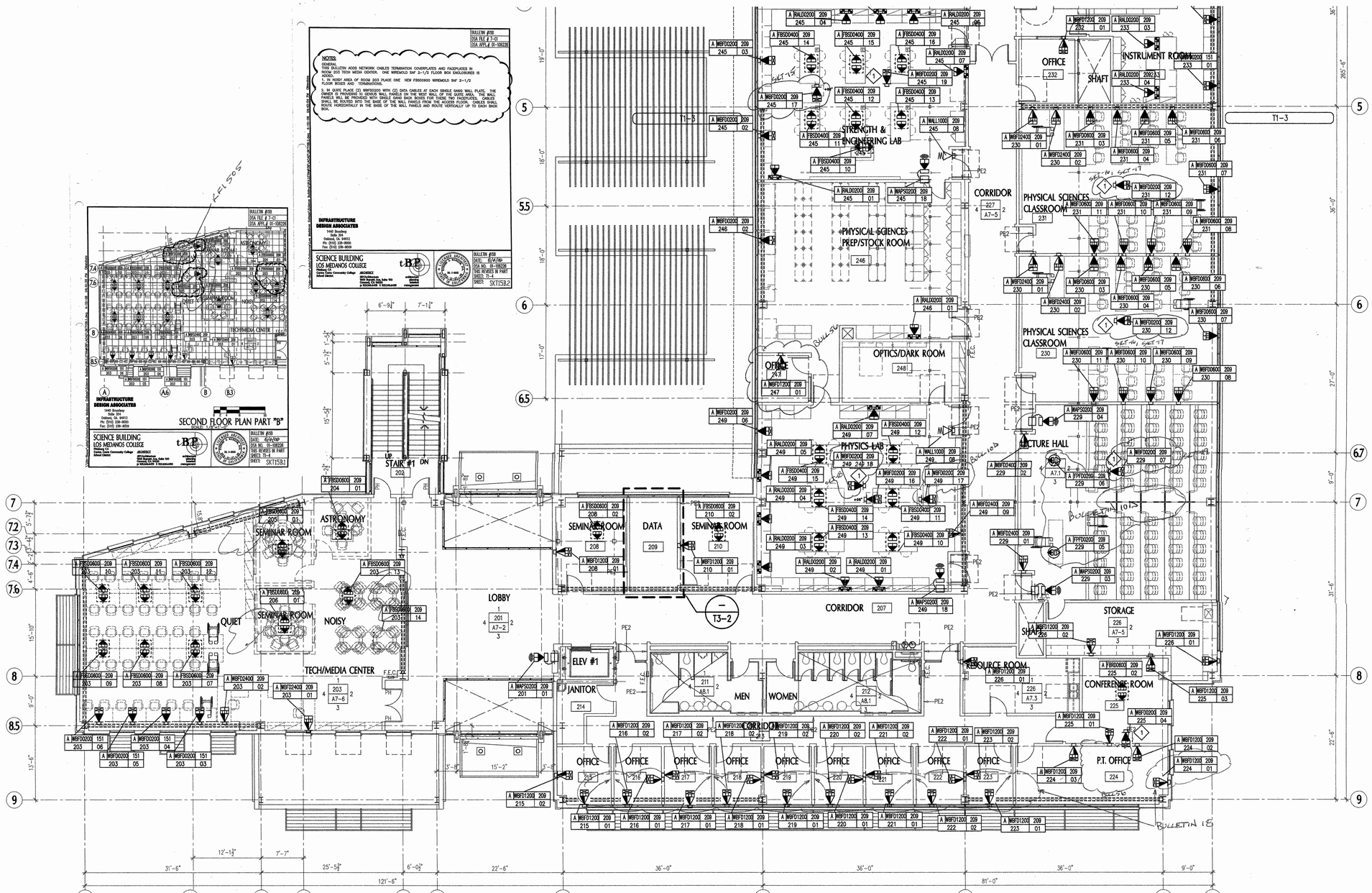
RESPONSE:

DATED: SIGNED:

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190438

Los Medanos College
4CD Proj.# : 1-565-B-23-SC
Science Building

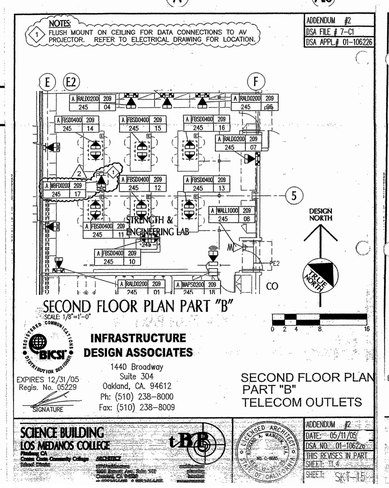
1 COORDINATE LOCATION WITH OWNERS REPRESENTATIVE IN CEILING.

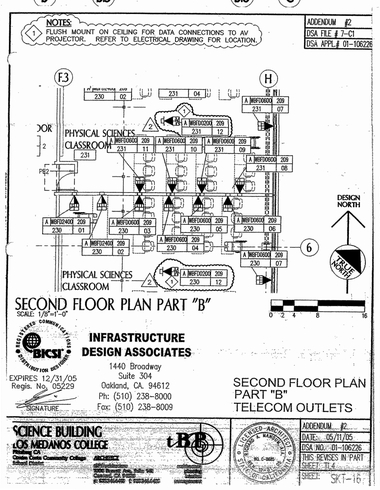


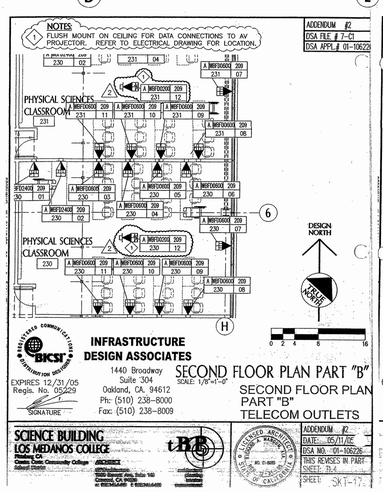


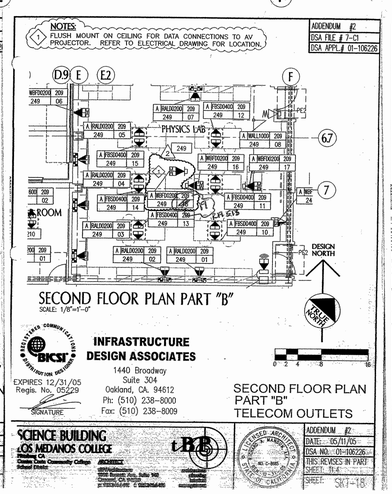


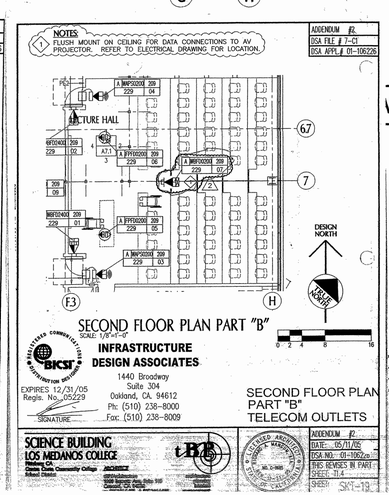


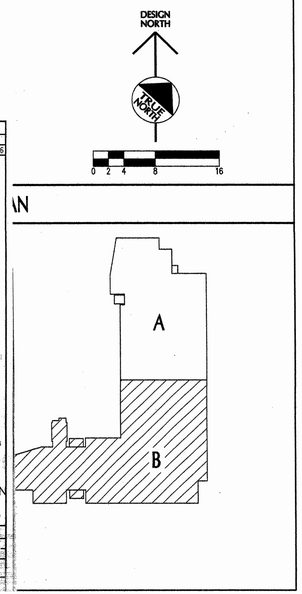





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1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925246649 5 f: 9252466495



INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
EXPIRES 12/31/06
Regis. No. 06606
SIGNATURE
consultant


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
DATE

name
address
city, state, zip
ph:
fx:

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

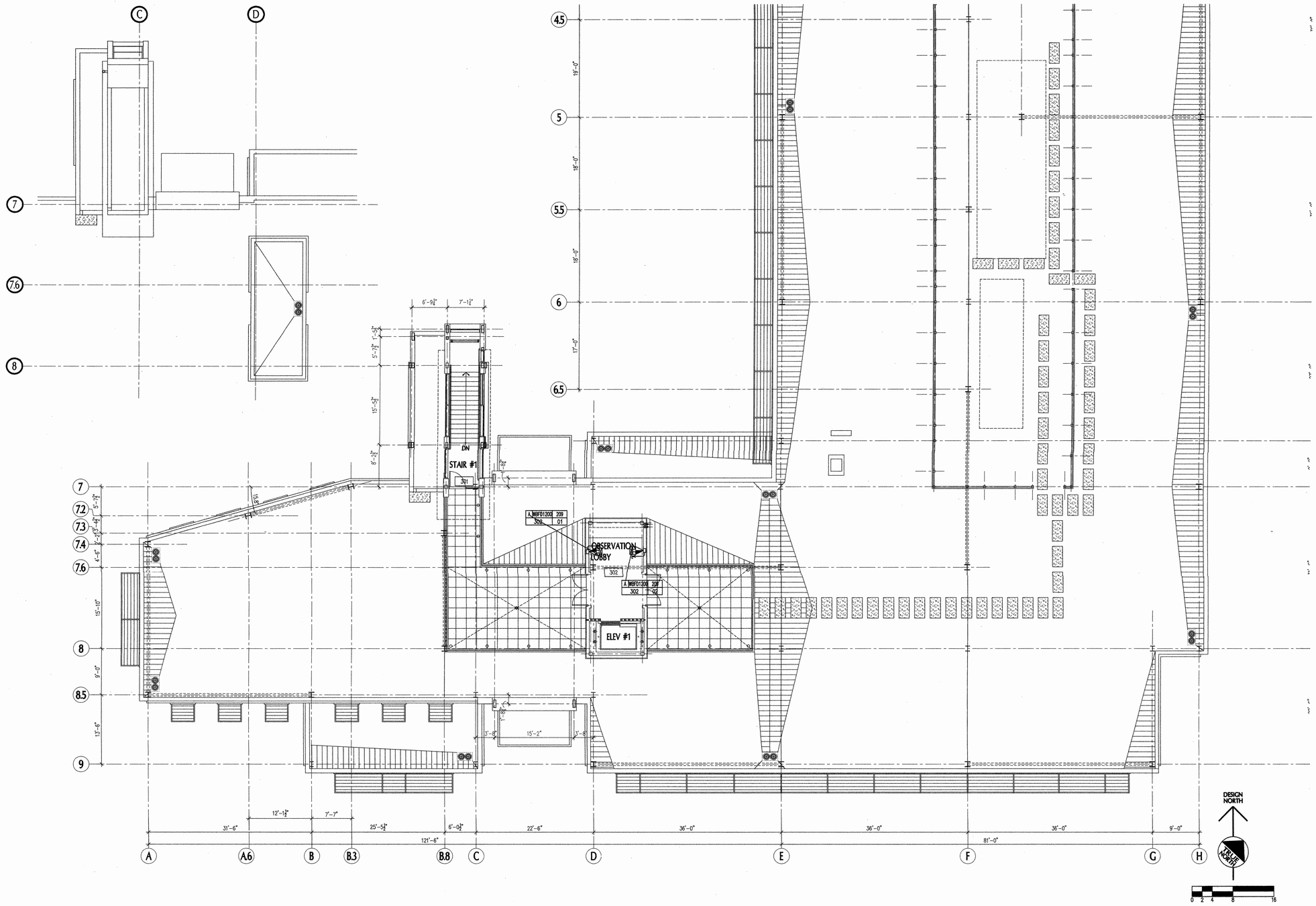
1/8"=1'-0"

drawing title: SECOND FLOOR PLAN PART "B" TELECOM OUTLETS

building no: LMC SCIENCE 313-023-T12.01-0-00.00

drawing no: T1-4

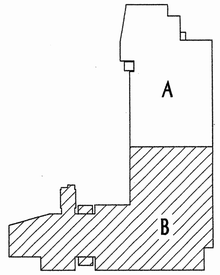
drawing of




ROOF FLOOR PLAN PART "B"

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

1 KEY PLAN





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tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495


INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA 94612
EXPIRES: 12/31/06
Regis. No. 06606
SIGNATURE

consultant

name
address
city, state, zip
ph: fx:

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

1/8"=1'-0"

drawing title: building no:

ROOF PLAN
PART "B"
TELECOM OUTLETS

LMC SCIENCE 313-023-112.01-0-00.00

drawing no:

T1-5

drawing of

G:\Los Medanos College\Science Building\BID Set\acad\T1-5.dwg 11-08-04 10:36:40 AM cmendoza

**S. J. AMOROSO**
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: ISP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Project: LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

ISP p/n: 20247.00

Subj.: Telecom GRD BUS Grounding

RFI No: **156**

Reference (dwg, spec.) T3-1 & T3-2

Subcontractor RFI: EWS 7

Reply Requested By: 2/27/06

Date: 2/23/06

INFORMATION REQUESTED:

Please note the attached Scott Electric RFI No. 7 regarding a GRD BUS in rooms 151 and 209 with no grounding information. Please advise.

SUGGESTED SOLUTION:

Cost Impact: ☐ Schedule Impact: ☐ days By: Mark Delgado

DATE: 2/28/06

RESPONSE:
Electrical Contractor must bond the ground bus bar in telecom room 151 and 209 to the electrical ground system in the building and to building steel with an exothermic weld to the closest building structural steel member. In addition the Telecom contractor must bond the equipment racks, cable ladders, cable trays and terminal block backboards to the telecom ground bus bar. For room 151, see symbols and sheet notes on T3-1 and also sheet note #12 on E2.2. For room 209, see symbols and sheet notes on T3-2 and also sheet note #14 on E5.4.

Attachments:

By: TMP/SDA

TRANSMITTAL RECORD:

| FROM | TO | DATE |
|---|---|---|
| S.J.AMOROSO | ISP / ARCHITECTURE | 2/23/06 |
| ISP / ARCHITECTURE | ENGINEER/CONSULTANT | 2.22.06 |
| ENGINEER/CONSULTANT | ISP / ARCHITECTURE | 2.27.06 |
| ISP / ARCHITECTURE | S.J. AMOROSO | 3/06.06 |
| S.J. AMOROSO | ORIGINATOR | |

RFI # 000
Page 1

**EDWARD W. SCOTT ELECTRIC CO., INC.**
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

## REQUEST FOR INFORMATION

LMC

PROJECT: SCIENCE BLDG. R.F.I.# 7 R.F.I. Date 2/21/06
JOB: 2021 ACTUAL REPLY DATE

TO: MARK DELGADO
OF: AMOROSO CONST.
REF. DWG: T3-1, T3-2 & TD-1
LOCATION: DATA ROOMS

POTENTIAL COST IMPACT
___ COST ✓ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: TELE COM. DWGS T3-1 & T3-2 DETAIL 2 SHOW A GRD BUS IN RMS. 151 & 209. NEITHER THE ELEC. OR TELECOM DWGS. REFER TO SHOW HOW THE GRD BUSES THEMSELVES GET GROUNDED. THE GND. SYMBOL ON DWG. TD-1 MAKES REFERENCE TO SPEC. SECTION 16670 WHICH DOES NOT SEEM TO EXIST. PLEASE ADVISE.

REPLY REQUIRED BY: 2/27/06 SIGNED: [illegible]
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

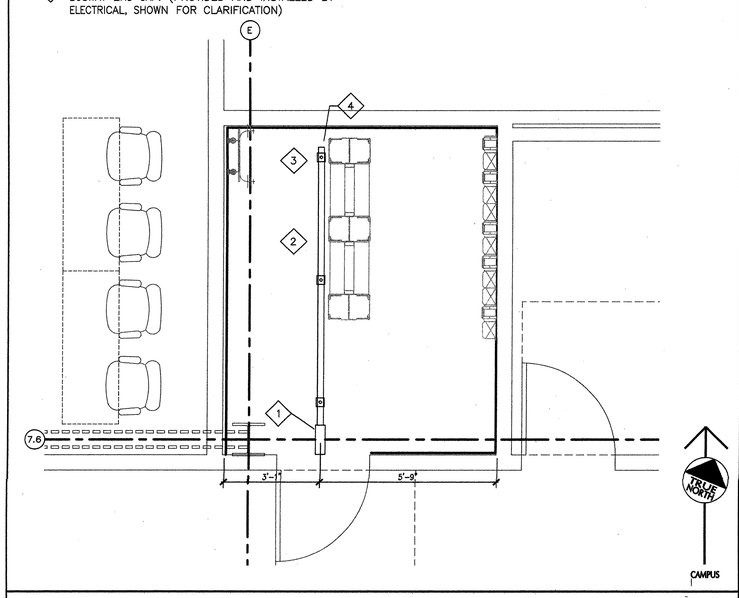
DATED: SIGNED:

RHDOC39

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

KEY NOTES:

1. END POWER FEED UNIT – 60 AMP, 4 POLE WITH GROUND. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION)
2. PLUG-IN BUSWAY STRAIGHT SECTION AT +8'-2" A.F.F. 50 LB TOTAL OPERATING WEIGHT. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION)
3. SUPPORT ASSEMBLY TO SUSPEND BUSWAY FROM BACK-TO-BACK "U" CHANNEL GRID ABOVE. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION)
4. BUSWAY END CAP. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION)

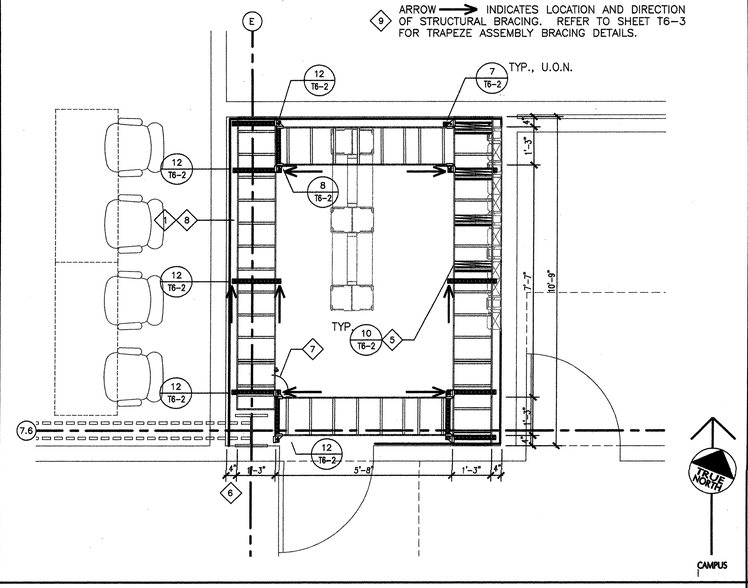



6 STARLINE BUSWAY @ +8'-2" A.F.F. (PROVIDED BY ELECTRICAL)

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

KEY NOTES:

1. 15" STEEL CABLE RUNWAY AT +8'-9" A.F.F.
2. RUNWAY WALL SUPPORT KIT WITH "J" BOLTS TO ATTACH 15" CABLE RUNWAY STRINGERS.
3. SLOTTED RUNWAY SUPPORT KIT USED TO SUSPEND CABLE RUNWAY FROM $\frac{3}{8}$" THREADED ROD.
4. DIAGONAL BRACES AND ROD STIFFENER ASSEMBLY TO SUSPEND CABLE RUNWAY FROM SLAB ABOVE.
5. DROP-OUT FITTING.
6. PROVIDE 4" OF CLEARANCE BETWEEN CABLE RUNWAY AND WALLS WHERE INDICATED.
7. #6 AWG STRANDED COPPER WITH GREEN SHEATH INSULATION FROM ONE SEGMENT OF THE +8'-9" CABLE RUNWAY TO THE GROUND BAR IN THE ROOM. TERMINATE THE #6 AWG CABLE IN A TWO-BOLT COMPRESSION LUG CONNECTOR ON THE COPPER GROUND BAR AND IN AN APPROVED GROUND WIRE TERMINAL ON THE CABLE RUNWAY.
8. LOADING CAPACITY FOR CABLE TRAY IS 26 LBS PER LINEAL FOOT. CONTRACTOR SHALL PROVIDE SIGNAGE AT 4' INTERVALS TO INDICATE LOADING CAPACITY.
9. ARROW ⟶ INDICATES LOCATION AND DIRECTION OF STRUCTURAL BRACING. REFER TO SHEET T6-3 FOR TRAPEZE ASSEMBLY BRACING DETAILS.

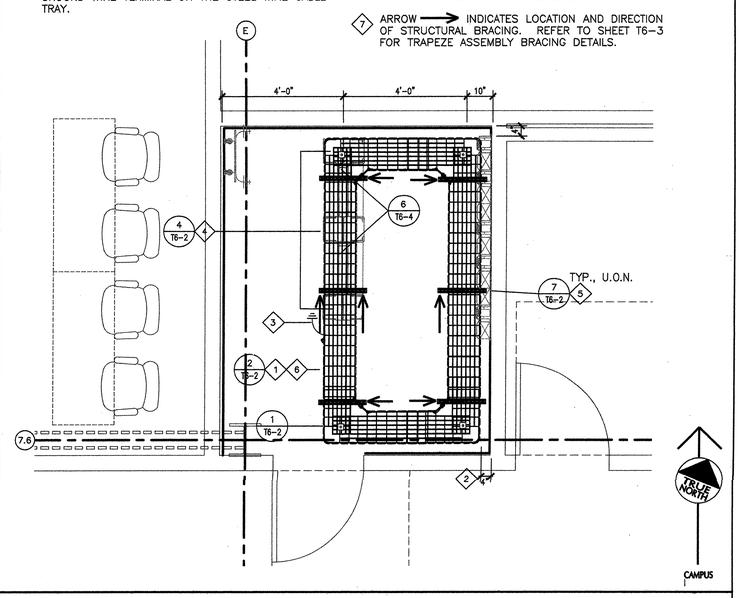



4 15" CABLE RUNWAY @ +8'-9" A.F.F.

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

KEY NOTES:

1. 12" X 2" STEEL WIRE CABLE TRAY, ELECTRO-PLATED ZINC GALVANIZING, MOUNTED HORIZONTALLY AT +7'-2" A.F.F.
2. PROVIDE 4" OF CLEARANCE BETWEEN CABLE TRAYS AND WALLS WHERE INDICATED.
3. #6 AWG STRANDED COPPER WITH GREEN SHEATH INSULATION FROM ONE SEGMENT OF THE +7'-2" STEEL WIRE CABLE TRAY TO THE GROUND BAR IN THE ROOM. TERMINATE THE #6 AWG CABLE IN A TWO-BOLT COMPRESSION LUG CONNECTOR ON THE COPPER GROUND BAR AND IN AN APPROVED GROUND WIRE TERMINAL ON THE STEEL WIRE CABLE TRAY.
4. PROVIDE CUTOUTS AND DROPOUT FITTINGS IN LOWER LEVEL OF STEEL WIRE CABLE TRAY ABOVE THE WALL MOUNTED BACKBOARDS AND ABOVE THE DOUBLE SIDED VERTICAL CABLE MANAGERS.
5. ATTACH THE STEEL WIRE CABLE TRAY TO EACH "U" CHANNEL TRAPEZE ASSEMBLY AT LOCATIONS INDICATED WITH TWO SPRING NUTS $\frac{3}{4}$"-20, TWO HOLD DOWN BEAM CLAMPS $1\frac{5}{8}$" AND TWO $\frac{3}{4}$"-20 HEX HEAD BOLTS.
6. LOADING CAPACITY FOR CABLE TRAY IS 26 LBS PER LINEAL FOOT. CONTRACTOR SHALL PROVIDE SIGNAGE AT 4' INTERVALS TO INDICATE LOADING CAPACITY.
7. ARROW ⟶ INDICATES LOCATION AND DIRECTION OF STRUCTURAL BRACING. REFER TO SHEET T6-3 FOR TRAPEZE ASSEMBLY BRACING DETAILS.

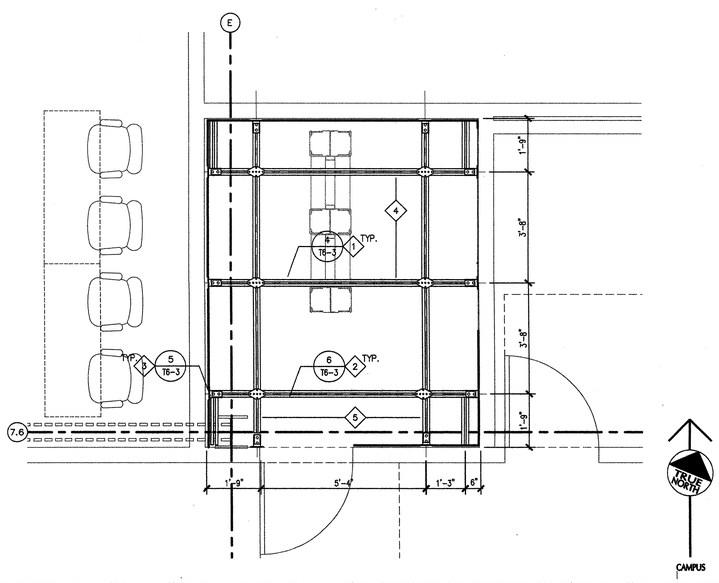



2 12" STEEL WIRE CABLE TRAY @ +7'-2" A.F.F

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

KEY NOTES:

1. BACK-TO-BACK "U" CHANNEL SUPPORT GRID INSTALLED AT INDICATED SPACING. REFER TO DRAWING T6.3, DETAIL 4.
2. "U" CHANNEL 7 HOLE CROSS GUSSET PLATE. REFER TO DRAWING T6.3, DETAIL 6.
3. POST BASE MOUNTED TO WALL FOR BACK-TO-BACK "U" CHANNEL SUPPORT. REFER TO DRAWING T6.3, DETAIL 5.
4. RUNS OF "U" CHANNEL ACROSS THE NARROW WIDTH OF THE ROOM SHALL BE CONTINUOUS.
5. RUNS OF "U" CHANNEL ACROSS THE LENGTH OF THE ROOM SHALL BE FILLER SEGMENTS BETWEEN THE CONTINUOUS RUNS.

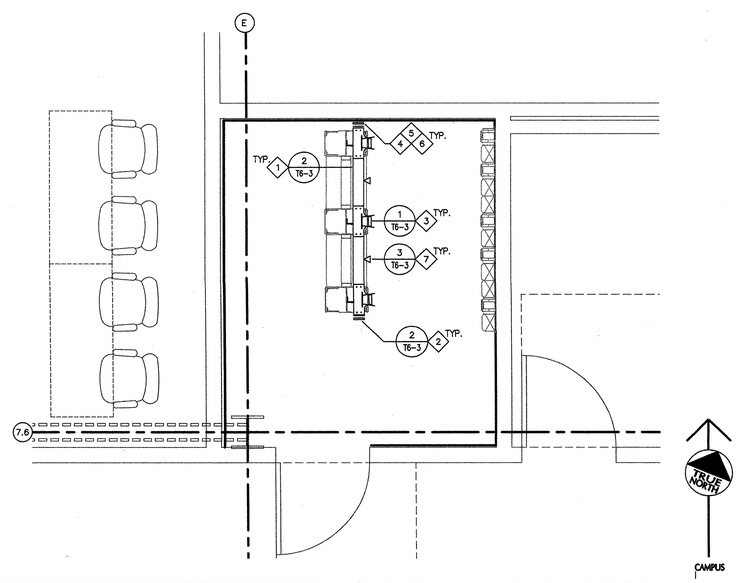



5 DOUBLE "U" FRAMING CHANNEL GRID @ +10'-0" A.F.F.

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

KEY NOTES:

1. FIBER OPTIC PATCH CABLE TROUGH 4" STRAIGHT SECTION.
2. FIBER OPTIC PATCH CABLE TROUGH 4" END CAP.
3. FIBER OPTIC PATCH CABLE TROUGH 4" DOWNSPOUT.
4. FIBER OPTIC PATCH CABLE TROUGH 2" DOWNSPOUT INSERT INSIDE 4" DOWNSPOUT.
5. CONNECT DOWNSPOUT INSIDE OF 2" VERTICAL SLOTTED DUCT KIT ATTACHED TO RACK VERTICAL CABLE MANAGER BELOW.
6. POSITION THE 2" VERTICAL SLOTTED DUCT IN THE FORWARD RIGHT CORNER OF THE VERTICAL CABLE MANAGER AND SECURE ON 18" CENTERS WITH MOUNTING BRACKETS. DUCT MUST RUN ENTIRE LENGTH OF THE VERTICAL CABLE MANAGER.
7. USE THREADED ROD ATTACHMENT BRACKETS TO SUPPORT 4" FIBER GUIDE AT +7'-6" FROM "U" CHANNEL ABOVE. USE WHERE INDICATION ARROW IS SHOWN.

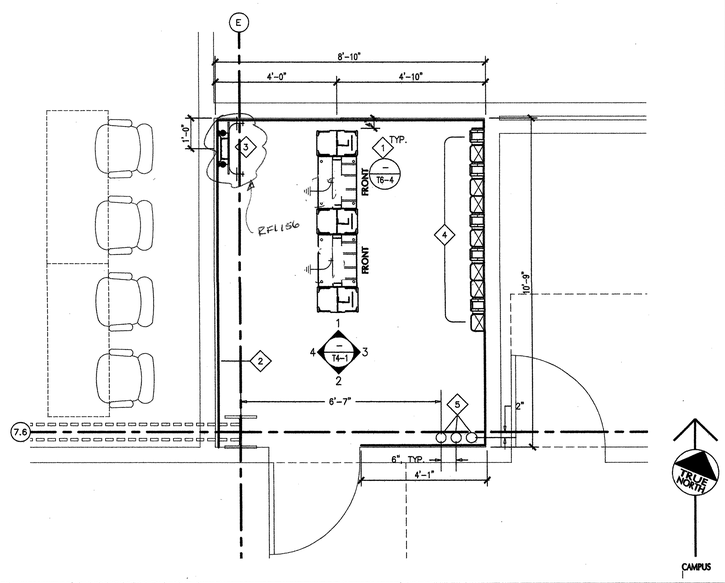



3 FIBER GUIDE @ +7'-6" A.F.F.

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

KEY NOTES:

1. 19" X 84" SELF-SUPPORTING ALUMINUM, UL LISTED EQUIPMENT RACK WITH DOUBLE SIDED VERTICAL CABLE MANAGER ON BOTH SIDES AND 6" HORIZONTAL RING PANELS.
2. $\frac{3}{4}$" TREATED FIRE RESISTANT PLYWOOD FROM +0'-6" A.F.F. TO +10'-6" A.F.F. PROVIDED AND INSTALLED BY ELECTRICAL.
3. 20" X 4" COPPER GROUND BUS BAR, PROVIDED AND INSTALLED BY ELECTRICAL.
4. KRONE TRUENET TERMINATION BLOCKS, WALL-MOUNTED FOR TELEPHONE BACKBONE, TELEPHONE STATION AND NETWORK STATION CABLING. REFER TO T4-1 FOR WALL ELEVATION.
5. 3-4" ENTRANCE CONDUITS, PROVIDED AND INSTALLED BY ELECTRICAL. DIMENSIONS SHOWN FOR COORDINATION.




1 BDF/IDF 1.0 FLOOR PLAN

GRAPHIC SCALE: 1/2" = 1'-0"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tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

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INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612

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EXPIRES 12/31/06
Regis. No. 06606
SIGNATURE

consultant

DEMONSTRATION STAMP
DIV. OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. 01/14/05
DATE 1-14-05

name
address
city, state, zip
ph: fc:


SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

1/2" = 1'-0"

drawing title: building no:
ENLARGED PLANS
BDF/IDF 1.0
(ROOM 151)

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
T3-1
drawing of

G:\Los Medanos College\Science Building\BID Set\acad\T3-1.dwg 11-08-04 10:14:59 AM cmendoza

## S. J. AMOROSO
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

**Project:** LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495

tBP p/n: 20247.00

**Subj.:** Plywood Mounted to Room 209 North Wall

**RFI No:** **405**

**Reference (dwg, spec.):** T3-2, T4-2

Subcontractor RFI: EWS 53

**Reply Requested By:** 10/30/06

**INFORMATION REQUESTED:**

**Date:** 10/23/06

Please note the attached EWS RFI No. 53 regarding Mounted Plywood on the North wall of the Data Room 209. Please advise.

**SUGGESTED SOLUTION:**
**Cost Impact:** ☐ **Schedule Impact:** ☐ days **By:** Mark Delgado

**RESPONSE:** **DATE:**

See attached IDA memo for response of this RFI.

Vanessa Ling/tBP - 10/26/06

RFI # 000
Page 1

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## EDWARD W. SCOTT ELECTRIC CO., INC.
435 HARRIET STREET
San Francisco, CA 94103-4914
Phone: (415) 626-0701 Fax: (415) 626-2837

### REQUEST FOR INFORMATION

PROJECT: LMC SITE IMPROVEMENT R.F.I.# 53 R.F.I. Date 10/23/06
JOB: 2466 ACTUAL REPLY DATE ______

TO: MARK DELGADO
OF: AMOROSO CONST.
REF: DWG: T3-2, T4-2
LOCATION: 2nd FL. DATA RM. 209

POTENTIAL COST IMPACT
___ COST ✓ SCHEDULE
___ OTHER ___ LABOR
___ NO IMPACT ___ MATERIAL

INFORMATION REQUESTED: THE NORTH WALL OF DATA RM 209 IS A WINDOW WALL YET DWGS. T3-2 & T4-2 SHOW PLYWOOD MOUNTED TO IT. WHAT IS THE PLYWOOD ATTACHED TO? NOTE THAT DETAIL 5 ON T3-2 SHOWS THE BACK-TO-BACK "U" CHANNEL SUPPORT GRID ANCHORS TWICE ON THIS WALL. PLEASE REVIEW AND REPLY.

REPLY REQUIRED BY: 10/31/06 SIGNED: [signature]
NOTE: IF NO REPLY IS RECEIVED BY US BY THE ABOVE NOTED DATE, A TIME EXTENSION WILL BE REQUIRED WITH POSSIBLE COST IMPACTS.

RESPONSE:

DATED: ______ SIGNED: ______

RFIDOC.99

INDUSTRIAL, COMMERCIAL WIRING & DESIGN
STATE CONTRACTOR LICENSE NO. 190426

---

## INFRASTRUCTURE DESIGN ASSOCIATES, Inc.

Date: 25 October 2006

To: Vanessa Ling
tBP Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
925-246-6419

From: David Buza
Infrastructure Design Associates
1440 Broadway, Suite 304
Oakland, CA 94612
510.238.8002

Project Name: **Los Medanos College – Science Building**
Regarding: **RFI 405 – T3-2 Room 209.**

Total Pgs Transmitted: 1
We are sending the enclosed: ☐Federal Express ☐Fax ☐Mail ☐Hand Deliver ☐UPS ☒Email ☒By your request ☐For your use ☐For your review ☐For your records

Vanessa Ling,

IDA has resolved the issue by adding an additional piece of "Double U Channel" right before the window, and mounting that to the West and East walls. This removes the need to mount to the north wall, instead the "filler" sections of "Double U Channel" will attach with the 5 hole gusset plate shown on detail 10 of sheet T6.3. This also relieves the need to mount the plywood backboard to the north wall of room 209. Please see the attached sketch for further clarification.

If you have any questions, please call me at 510.238.8002 or e-mail at dbuza@infrastruct.com.

Sincerely,

David L. Buza
Office : 510.238.8002
Cell : 510.755.5425

IDA • 1440 Broadway, Suite 304 • Oakland, California 94612 • T: 510.238.8000 • F: 510.238.8009

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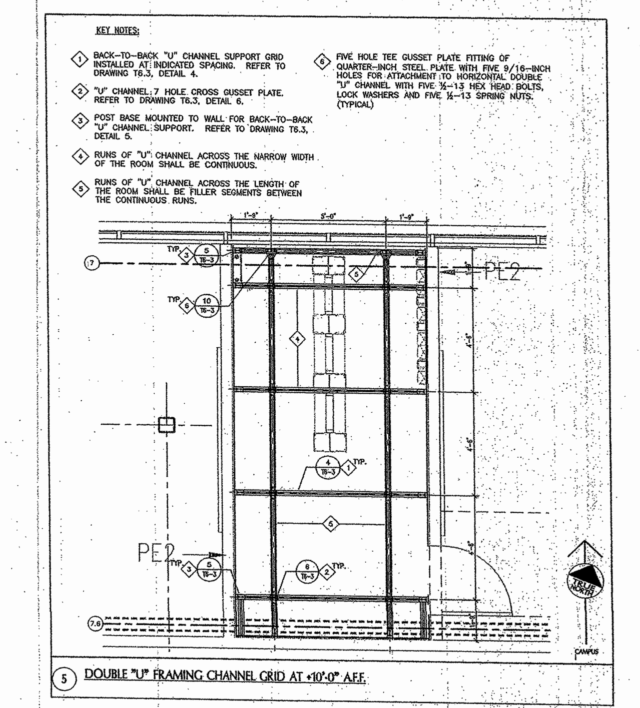



5 DOUBLE "U" FRAMING CHANNEL GRID AT +10'-0" A.F.F.

---

## S. J. AMOROSO
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

**To:** tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

**Project:** LOS MEDANOS COLLEGE
SCIENCE BUILDING
Contra Costa Community College District

**Attn:** Celia Chiang, Tom Beckett
**Fax:** 925-246-6495

tBP p/n: 20247.00

**Subj.:** Triatek Computer Location

**RFI No:** **493**

**Reference (dwg, spec.):**

Subcontractor RFI: Monterey 18

**Reply Requested By:** 3/1/07

**INFORMATION REQUESTED:**

**Date:** 2/22/07

Please note the attached Monterey Mechanical RFI No. 18 regarding the location of the Triatek Computer. Please advise.

**SUGGESTED SOLUTION:**
**Cost Impact:** ☐ **Schedule Impact:** ☐ days **By:** Justin Warren

**RESPONSE:** **DATE:**

Locate the Triatek Computer in data room 209.
Unit may be stand alone or rack mounted.

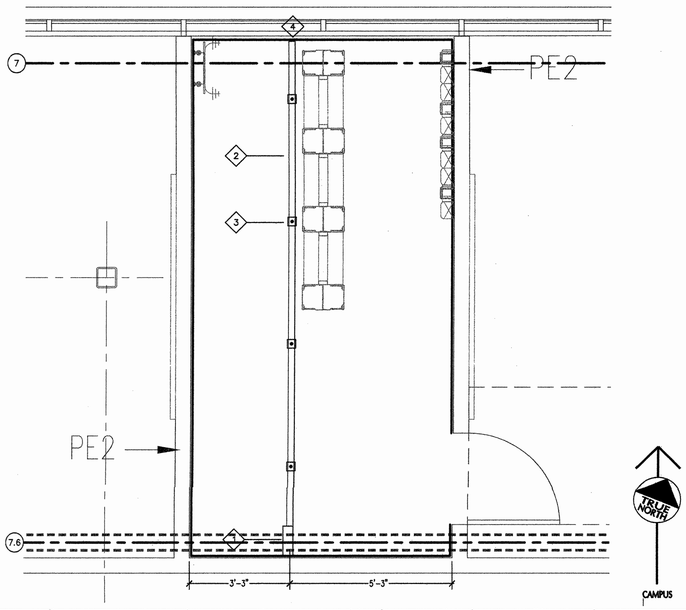
Jim Weaver / tBP Architecture
Dave Buza / IDA

cc: Monterey
: EW Scott

RFI # 000
Page 1

KEY NOTES:

1. END POWER FEED UNIT – 60 AMP, 4 POLE WITH GROUND. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION)
2. PLUG-IN BUSWAY STRAIGHT SECTION AT +8'-2" A.F.F. 50 LB TOTAL OPERATING WEIGHT. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION).
3. SUPPORT ASSEMBLY TO SUSPEND BUSWAY FROM BACK-TO-BACK "U" CHANNEL GRID ABOVE. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION)
4. BUSWAY END CAP. (PROVIDED AND INSTALLED BY ELECTRICAL, SHOWN FOR CLARIFICATION)

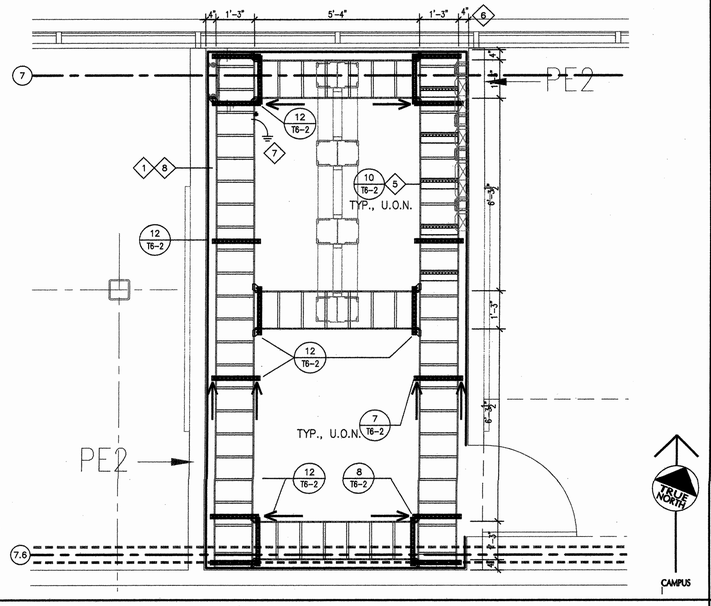



6 STARLINE BUSWAY AT +8'-2" A.F.F. (PROVIDED BY ELECTRICAL)

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

KEY NOTES:

1. 15" STEEL CABLE RUNWAY AT +8'-9" A.F.F.
2. RUNWAY WALL SUPPORT KIT WITH "J" BOLTS TO ATTACH 15" CABLE RUNWAY STRINGERS.
3. SLOTTED RUNWAY SUPPORT KIT USED TO SUSPEND CABLE RUNWAY FROM 3/8" THREADED ROD.
4. DIAGONAL BRACES AND ROD STIFFENER ASSEMBLY TO SUSPEND CABLE RUNWAY FROM SLAB ABOVE.
5. DROP-OUT FITTING.
6. PROVIDE 4" OF CLEARANCE BETWEEN CABLE RUNWAY AND WALLS WHERE INDICATED.
7. #6 AWG STRANDED COPPER WITH GREEN SHEATH INSULATION FROM ONE SEGMENT OF THE +8'-9" CABLE RUNWAY TO THE GROUND BAR IN THE ROOM. TERMINATE THE #6 AWG CABLE IN A TWO-BOLT COMPRESSION LUG CONNECTOR ON THE COPPER GROUND BAR AND IN AN APPROVED GROUND WIRE TERMINAL ON THE CABLE RUNWAY.
8. LOADING CAPACITY FOR CABLE TRAY IS 26 LBS PER LINEAL FOOT. CONTRACTOR SHALL PROVIDE SIGNAGE AT 4' INTERVALS TO INDICATE LOADING CAPACITY.
9. ARROW ⟶ INDICATES LOCATION AND DIRECTION OF STRUCTURAL BRACING. REFER TO SHEET T6-3 FOR TRAPEZE ASSEMBLY BRACING DETAILS.

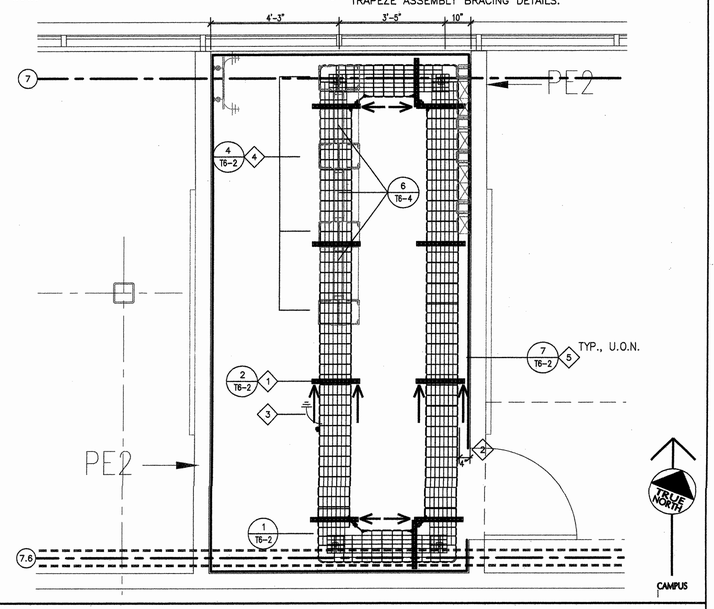



4 15" CABLE RUNWAY AT +8'-9" A.F.F.

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

KEY NOTES:

1. 12" X 2" STEEL WIRE CABLE TRAY, ELECTRO-PLATED ZINC GALVANIZING, MOUNTED HORIZONTALLY AT +7'-2" A.F.F.
2. PROVIDE 4" OF CLEARANCE BETWEEN CABLE TRAYS AND WALLS WHERE INDICATED.
3. #6 AWG STRANDED COPPER WITH GREEN SHEATH INSULATION FROM ONE SEGMENT OF THE +7'-2" STEEL WIRE CABLE TRAY TO THE GROUND BAR IN THE ROOM. TERMINATE THE #6 AWG CABLE IN A TWO-BOLT COMPRESSION LUG CONNECTOR ON THE COPPER GROUND BAR AND IN AN APPROVED GROUND WIRE TERMINAL ON THE STEEL WIRE CABLE TRAY.
4. PROVIDE CUTOUTS AND DROPOUT FITTINGS IN LOWER LEVEL OF STEEL WIRE CABLE TRAY ABOVE THE WALL MOUNTED BACKBOARDS AND ABOVE THE DOUBLE SIDED VERTICAL CABLE MANAGERS.
5. ATTACH THE STEEL WIRE CABLE TRAY TO EACH "U" CHANNEL TRAPEZE ASSEMBLY AT LOCATIONS INDICATED WITH TWO SPRING NUTS 3/4"-20, TWO HOLD DOWN BEAM CLAMPS 1 1/8" AND TWO 3/4"-20 HEX HEAD BOLTS.
6. LOADING CAPACITY FOR CABLE TRAY IS 26 LBS PER LINEAL FOOT. CONTRACTOR SHALL PROVIDE SIGNAGE AT 4' INTERVALS TO INDICATE LOADING CAPACITY.
7. ARROW ⟶ INDICATES LOCATION AND DIRECTION OF STRUCTURAL BRACING. REFER TO SHEET T6-3 FOR TRAPEZE ASSEMBLY BRACING DETAILS.

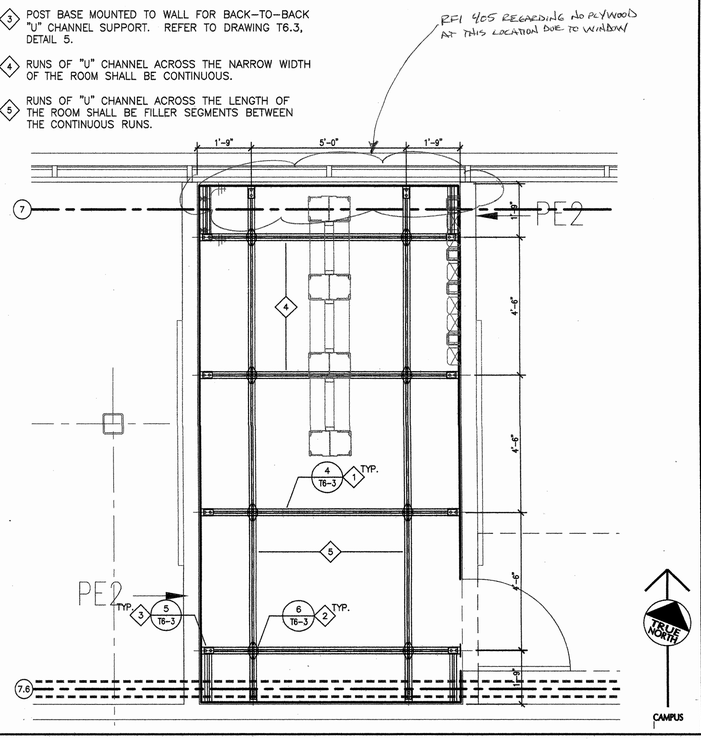



2 12" STEEL WIRE CABLE TRAY AT +7'-2" A.F.F

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

KEY NOTES:

1. BACK-TO-BACK "U" CHANNEL SUPPORT GRID INSTALLED AT INDICATED SPACING. REFER TO DRAWING T6.3, DETAIL 4.
2. "U" CHANNEL 7 HOLE CROSS GUSSET PLATE. REFER TO DRAWING T6.3, DETAIL 6.
3. POST BASE MOUNTED TO WALL FOR BACK-TO-BACK "U" CHANNEL SUPPORT. REFER TO DRAWING T6.3, DETAIL 5.
4. RUNS OF "U" CHANNEL ACROSS THE NARROW WIDTH OF THE ROOM SHALL BE CONTINUOUS.
5. RUNS OF "U" CHANNEL ACROSS THE LENGTH OF THE ROOM SHALL BE FILLER SEGMENTS BETWEEN THE CONTINUOUS RUNS.

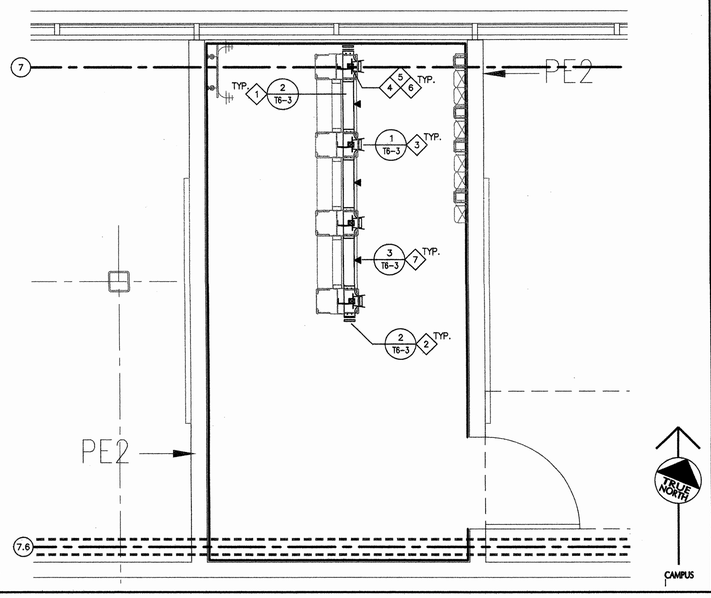



5 DOUBLE "U" FRAMING CHANNEL GRID AT +10'-0" A.F.F.

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

KEY NOTES:

1. FIBER OPTIC PATCH CABLE TROUGH 4" STRAIGHT SECTION.
2. FIBER OPTIC PATCH CABLE TROUGH 4" END CAP.
3. FIBER OPTIC PATCH CABLE TROUGH 4" DOWNSPOUT.
4. FIBER OPTIC PATCH CABLE TROUGH 2" DOWNSPOUT INSERT INSIDE 4" DOWNSPOUT.
5. CONNECT DOWNSPOUT INSIDE OF 2" VERTICAL SLOTTED DUCT KIT ATTACHED TO RACK VERTICAL CABLE MANAGER BELOW.
6. POSITION THE 2" VERTICAL SLOTTED DUCT IN THE FORWARD RIGHT CORNER OF THE VERTICAL CABLE MANAGER AND SECURE ON 18" CENTERS WITH MOUNTING BRACKETS. DUCT MUST RUN ENTIRE LENGTH OF THE VERTICAL CABLE MANAGER.
7. USE THREADED ROD ATTACHMENT BRACKETS TO SUPPORT 4" FIBER GUIDE AT +7'-6" FROM "U" CHANNEL ABOVE. USE WHERE INDICATION ARROW IS SHOWN.



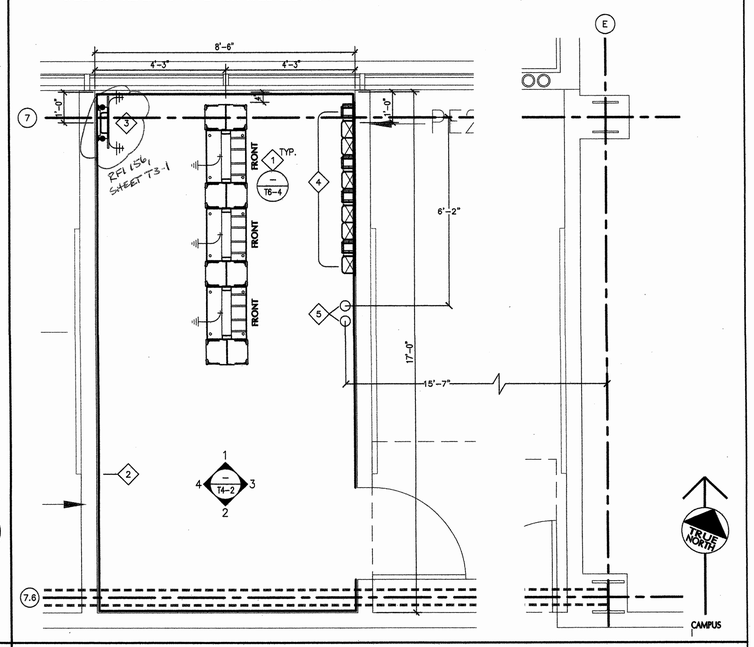

3 FIBER GUIDE AT +7'-6" A.F.F.

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

KEY NOTES:

1. 19" X 84" SELF-SUPPORTING ALUMINUM, UL LISTED EQUIPMENT RACK WITH DOUBLE SIDED VERTICAL CABLE MANAGER ON BOTH SIDES AND 6" HORIZONTAL RING PANELS.
2. 3/4" TREATED FIRE RESISTANT PLYWOOD FROM +0'-6" A.F.F. TO +10'-6" A.F.F, PROVIDED AND INSTALLED BY ELECTRICAL.
3. 20" X 4" COPPER GROUND BUS BAR, PROVIDED AND INSTALLED BY ELECTRICAL.
4. KRONE TRUENET TERMINATION BLOCKS, WALL-MOUNTED FOR TELEPHONE AND DATA STATION CABLING. REFER TO T4-2 FOR WALL ELEVATION.
5. 2-4" CONDUITS FROM FIRST FLOOR DATA ROOM, PROVIDED AND INSTALLED BY ELECTRICAL. DIMENSIONS SHOWN FOR COORDINATION.

NOTE: TRIATEK COMPUTER IN THIS ROOM PER RFI 493




1 IDF 2.0 FLOOR PLAN

GRAPHIC SCALE: 1/2" = 1'-0"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interiors
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1000 Burnett Avenue, Suite 140
Concord, CA 94520
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INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA 94612
EXPIRES: 12/31/06
Regis. No. 7-96608
SIGNATURE


consultant

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OFFICE OF REGULATORY SERVICES
APP. - 01/106526
DATE

name
address
city, state, zip
ph:
fx:

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

1/2" = 1'-0"

drawing title: building no:
ENLARGED PLANS
IDF 2.0
(ROOM 209)

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
T3-2
drawing of

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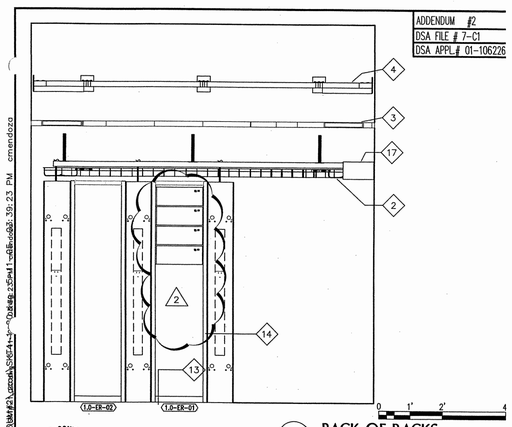


1 BACK OF RACKS

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
Ph: (510) 238-8000
Fax: (510) 238-8009

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ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151)

SCIENCE BUILDING
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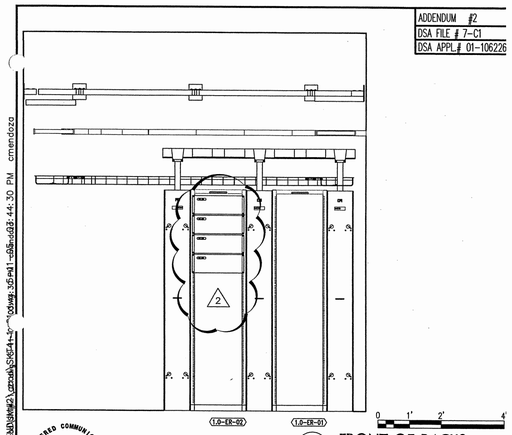
Contra Costa Community College School District
ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T4.1
SHEET: SKT-20




1 FRONT OF RACKS

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

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Fax: (510) 238-8009

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ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151)

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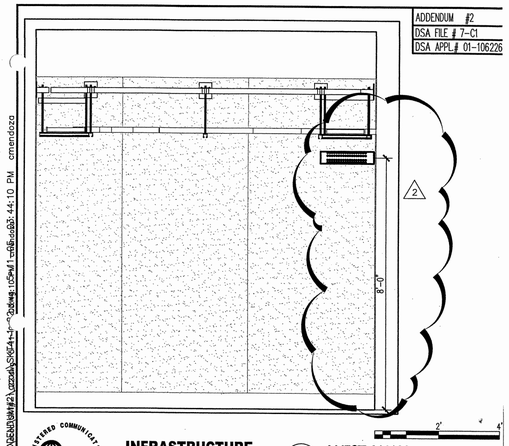
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T4.1
SHEET: SKT-21




1 WEST WALL

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

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Suite 304
Oakland, CA. 94612
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Fax: (510) 238-8009

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ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151)

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Contra Costa Community College School District
ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T4.1
SHEET: SKT-22

LICENSED ARCHITECT
RICHARD L. MARDIAN, FAIA
NO. C-8685
EXP. 12-31-05
STATE OF CALIFORNIA

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

architect

consultant

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OFFICE OF REGULATORY SERVICES
APP. NO. 01-106226
AC. ____ FLS. ____ SS. ____
DATE _____
DSA File No. 7-C1

Division of the State Architect
Regional Office
1515 Clay St, Suite 1201
Oakland, CA 94612
p: 415-396-9500 f:

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

title name:

drawn by: checked by:

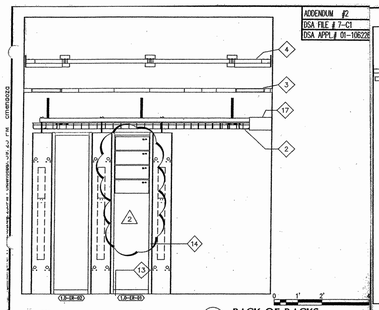
date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|
| | | |

ADDENDUM #2 DRAWINGS

ATTACHMENT TO T4-1

Los Medanos College
4CD Proj.# : L-565-B-23-SC
Science Building



1 BACK OF RACKS

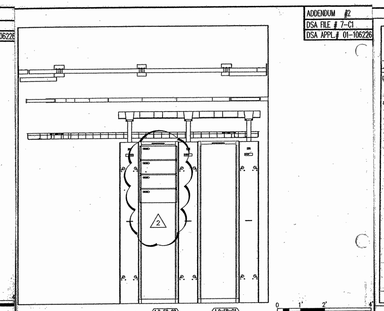

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
Ph: (510) 238-8000
Fax: (510) 238-8009


EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE

ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151)

SCIENCE BUILDING
LOS MEDANOS COLLEGE

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226
DATE: 05/11/05
DSA NO.: 01-106226
THIS REVISES IN PART
SHEET: T4.1
SHEET: SKT-20



1 FRONT OF RACKS

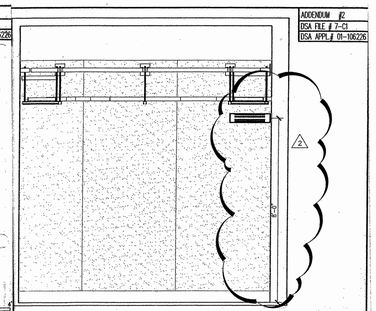

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
Ph: (510) 238-8000
Fax: (510) 238-8009


EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE

ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151)

SCIENCE BUILDING
LOS MEDANOS COLLEGE

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226
DATE: 05/11/05
DSA NO.: 01-106226
THIS REVISES IN PART
SHEET: T4.1
SHEET: SKT-21



1 WEST WALL


INFRASTRUCTURE DESIGN ASSOCIATES
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Oakland, CA. 94612
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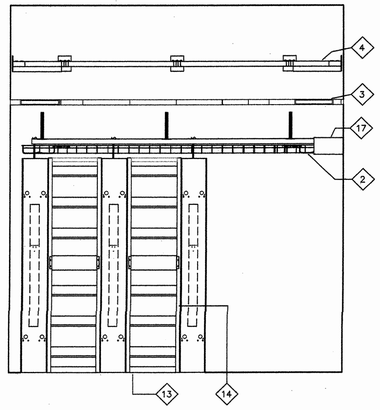
Fax: (510) 238-8009


EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE

ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151)

SCIENCE BUILDING
LOS MEDANOS COLLEGE

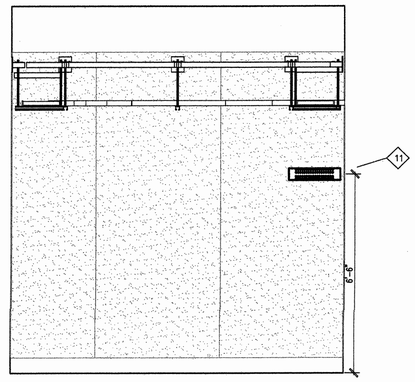
ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226
DATE: 05/11/05
DSA NO.: 01-106226
THIS REVISES IN PART
SHEET: T4.1
SHEET: SKT-22




SEE SKETCH SKT-20

6 BACK OF RACKS

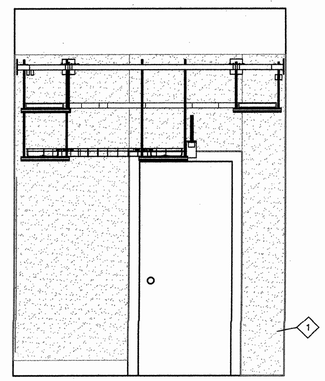
GRAPHIC SCALE: 1/2" = 1'-0"




SEE SKETCH SKT-22

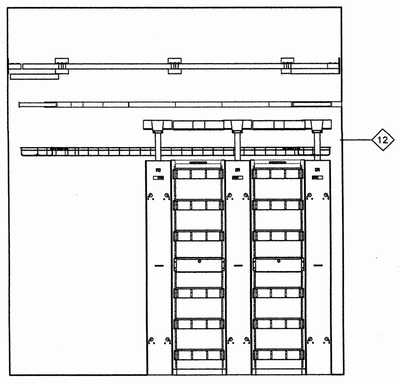
4 WEST WALL

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




2 SOUTH WALL

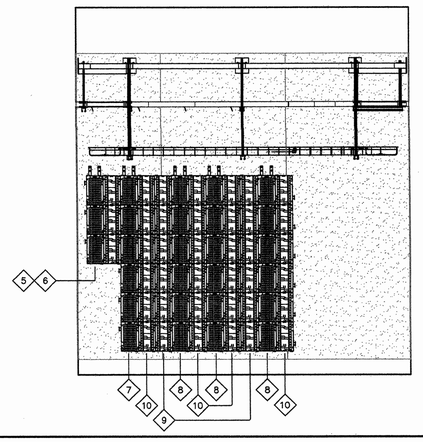
GRAPHIC SCALE: 1/2" = 1'-0"




SEE SKETCH SKT-21

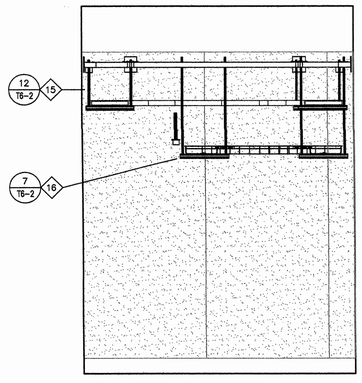
5 FRONT OF RACKS

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




3 EAST WALL

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




1 NORTH WALL

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

## KEY NOTES

1. 3/4" TREATED FIRE RESISTANT PLYWOOD (PROVIDED AND INSTALLED BY ELECTRICAL) FROM +0'-6" A.F.F. TO +10'-6" A.F.F. (TYPICAL)
2. 12" X 2" STEEL WIRE CABLE TRAY AT +7'-2" A.F.F. (TYPICAL)
3. 15" CABLE LADDER AT +8'-9" A.F.F. (TYPICAL)
4. "U" CHANNEL SUPPORT GRID @ +10'-0" A.F.F. (TYPICAL)
5. KRONE TERMINAL BLOCKS AND VERTICAL CABLE MANAGERS SHALL BE MOUNTED TO PLYWOOD BACKBOARDS WITH 3/8" X 1 1/4" HEX HEAD BOLTS. DRYWALL SCREWS NOT PERMITTED. (TYPICAL)
6. KRONE TERMINAL BLOCKS. (36) 8-PAIR ULTIM8 BLOCKS STACKED VERTICALLY FOR TERMINATION OF TELEPHONE BACKBONE CABLE.
7. KRONE TERMINAL BLOCKS. (72) 8-PAIR ULTIM8 BLOCKS STACKED VERTICALLY FOR TERMINATION OF UP TO 144 TELEPHONE STATION CABLES PER COLUMN.
8. KRONE TERMINAL BLOCKS. (72) 8-PAIR ULTIM8 BLOCKS STACKED VERTICALLY IN ONE COLUMN. FOR TERMINATION OF UP TO 144 NETWORK STATION CABLES PER COLUMN.
9. KRONE VERTICAL WIRE MANAGER TO BE USED TO ROUTE (2) BUNDLES OF 72 STATION CABLES TO ADJACENT COLUMNS ON RIGHT.
10. KRONE VERTICAL WIRE MANAGERS. HOLD CLEAR. TO BE USED FOR INNERCONNECT CABLES PROVIDED AND INSTALLED BY OTHERS.
11. 20" X 4" COPPER GROUND BUS BAR PROVIDED AND INSTALLED BY ELECTRICAL. MOUNT AT +6'-6" A.F.F.
12. FIBER OPTIC SLOTTED DUCT KIT, 8' LONG WITH COVER. CONNECT 2" VERTICAL DUCT TO DOWNSPOUT INSERT FITTING AND LOCATE IN CENTER FRONT OF VERTICAL RACK CABLING SECTION.
13. 19" X 84" EQUIPMENT RACK. REFER TO DETAIL SHEET T6-4.
14. APC POWER DISTRIBUTION UNIT, WHITE, 4'-0", 3 WIRE 1 CIRCUIT STRIP WITH 24 SINGLE OUTLETS. MOUNTED TO BACK SIDE OF VERTICAL RACK CABLING SECTION. PLUG STRIP SHALL HAVE A POWER CORD WITH A NEMA L5-20 PLUG FOR CONNECTION TO OVERHEAD ELECTRICAL BUSWAY SYSTEM INSTALLED BY OTHERS. APC POWER DISTRIBUTION UNIT - AP7620.
15. "U" FRAMING CHANNEL SINGLE TRAPEZE ASSEMBLY, TYPICAL. REFER TO DETAIL SHEET T6-2.
16. "U" FRAMING CHANNEL DOUBLE TRAPEZE ASSEMBLY, TYPICAL. REFER TO DETAIL SHEET T6-2.
17. STARLINE BUSWAY SYSTEM, TYPICAL, PROVIDED AND INSTALLED BY ELECTRICAL. SHOWN FOR REFERENCE ONLY.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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA 94612
ARCHITECTURE COMMUNICATIONS
BICSI
EXPIRES 12/31/06
Regis. No. 08606
SIGNATURE
consultant

IDENTIFICATION STAMP
ON OF THE STATE ARCHITECT
OFFICE OF REGULATORY AGENCIES
APPL - 01-10-6254
DATE 11-15-05

name
address
city, state, zip
ph: fx:


# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

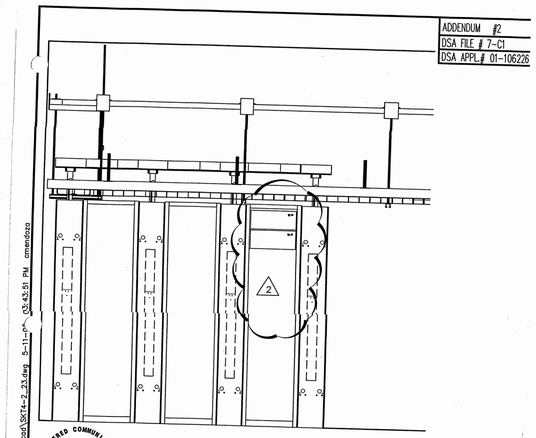
1/2"=1'-0"

drawing title: building no:
ELEVATIONS - WALL & RACK - BDF/IDF 1.0 (ROOM 151)

LMC SCIENCE 313-023-112.01-0-00.00

drawing no:
T4-1
drawing of

\Los Medanos College\Science Building\BID Set\xcad\T4-1.dwg 11-08-04 10:08:26 AM cmendoza

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EXPIRES 12/31/05
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SIGNATURE

BACK OF RACKS
0 1' 2' 4'

ELEVATIONS - WALL & RACK - IDF 2.0 (ROOM 209)

SCIENCE BUILDING
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Contra Costa Community College School District
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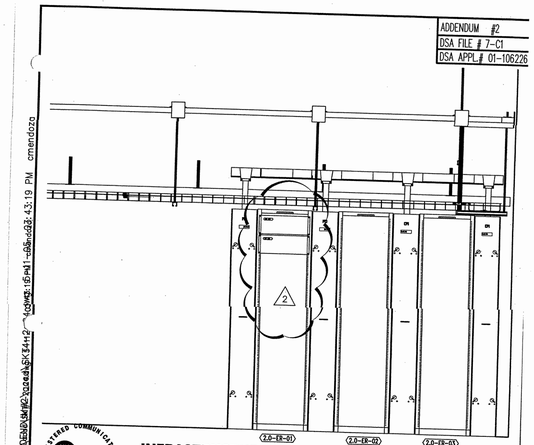
architecture planning interiors management

RICHARD E. MARCHETTI ARCHITECT NO. C-8685 REN. 12-31-05 STATE OF CALIFORNIA

| | |
|---|---|
| ADDENDUM | #2 |
| DATE: | 05/11/05 |
| DSA NO. | 01-106226 |
| THIS REVISES IN PART | |
| SHEET: | T4.2 |
| SHEET: | SKT-23 |

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Fax: (510) 238-8009

EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE

FRONT OF RACKS
0 1' 2' 4'

ELEVATIONS - WALL & RACK - IDF 2.0 (ROOM 209)

SCIENCE BUILDING
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RICHARD E. MARCHETTI ARCHITECT NO. C-8685 REN. 12-31-05 STATE OF CALIFORNIA

| | |
|---|---|
| ADDENDUM | #2 |
| DATE: | 05/11/05 |
| DSA NO. | 01-106226 |
| THIS REVISES IN PART | |
| SHEET: | T4.2 |
| SHEET: | SKT-24 |

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LICENSED ARCHITECT RICHARD E. MARCHETTI NO. C-8685 REN. 12-31-05 STATE OF CALIFORNIA

architect

consultant

VERIFICATION STAMP
DIVISION OF STATE ARCHITECT
OFFICE OF REGULATORY SERVICES
APP. NO. 01-106226
AC. ____ FLS. ____ SS. ____
DATE ____ DSA 3a 7C1

Division of the State Architect
Regional Office
1515 Clay St., Suite 1201
Oakland, CA 94612
p: 415.396.9500 f:

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20241.00

file name:

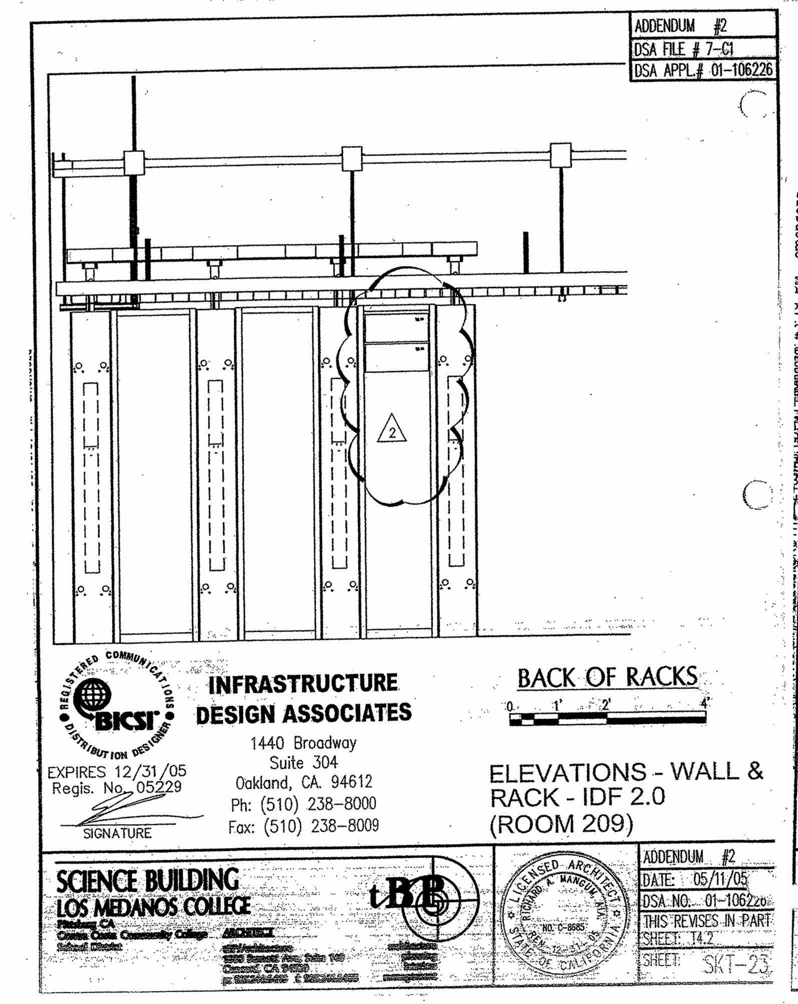
drawn by: checked by:

date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|
| | | |

drawing title:
ADDENDUM # 2 DRAWINGS

LMC SCIENCE 313-023-T12.01-0-00.00
drawing no.:
ATTACHMENT TO T4-2


ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226
INFRASTRUCTURE
DESIGN ASSOCIATES
1440 Broadway
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Oakland, CA. 94612
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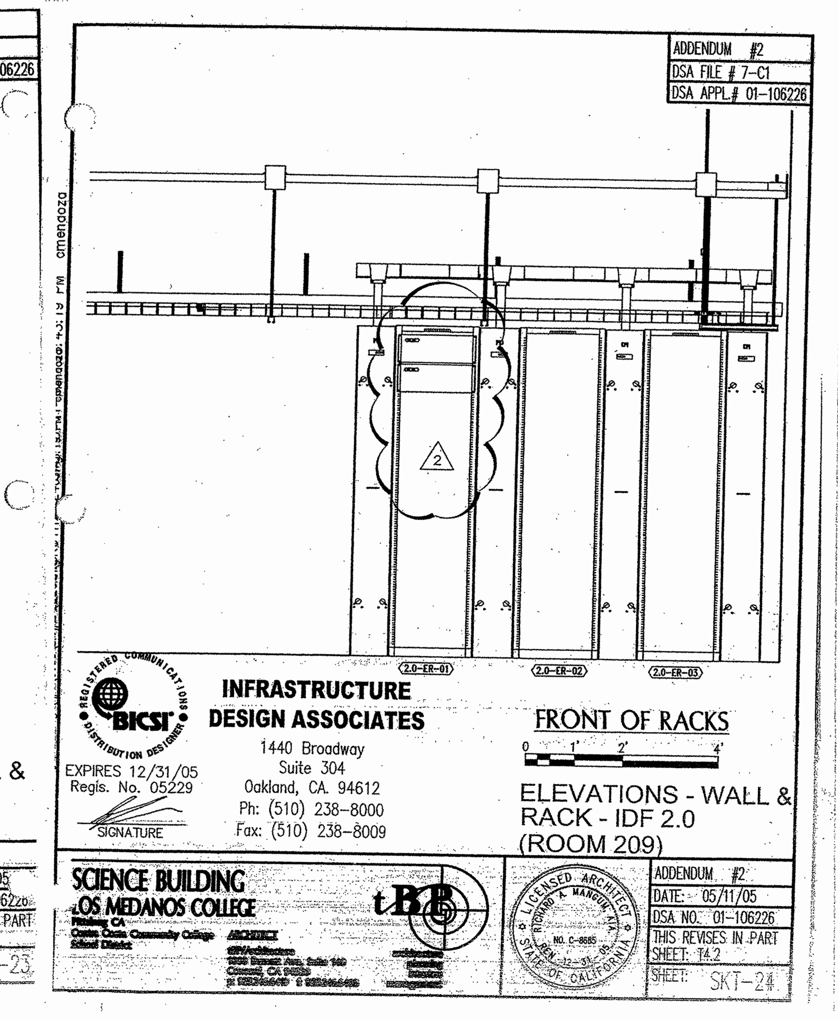
EXPIRES 12/31/05
Regis. No. 05229
SIGNATURE
BACK OF RACKS
0 1' 2' 4'
ELEVATIONS - WALL & RACK - IDF 2.0 (ROOM 209)
SCIENCE BUILDING
LOS MEDANOS COLLEGE
LICENSED ARCHITECT
RICHARD A. MANGUM, AIA
NO. C-8685
REN. 12-31-05
STATE OF CALIFORNIA
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART SHEET: T4.2
SHEET: SKT-23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DSA FILE # 7-C1
DSA APPL # 01-106226
2.0-ER-01
2.0-ER-02
2.0-ER-03
INFRASTRUCTURE
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FRONT OF RACKS
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SCIENCE BUILDING
LOS MEDANOS COLLEGE
LICENSED ARCHITECT
RICHARD A. MANGUM, AIA
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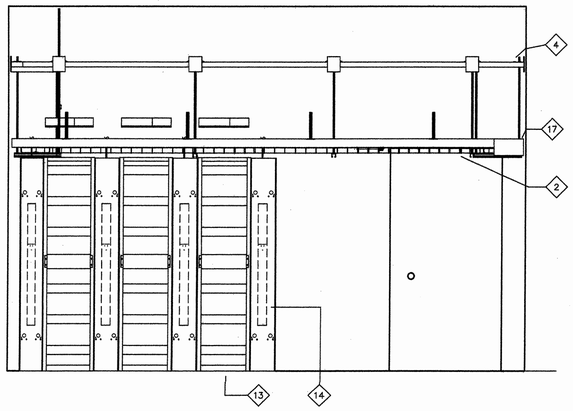
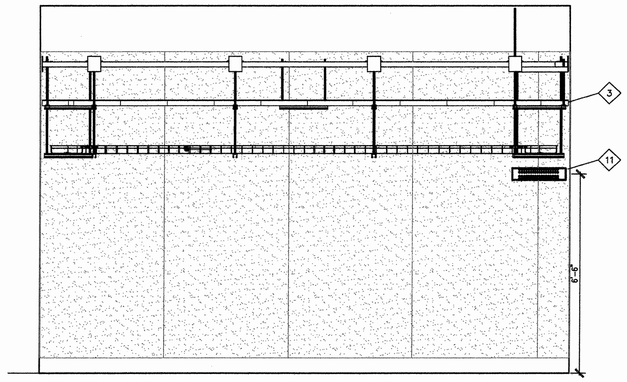
REN. 12-31-05
STATE OF CALIFORNIA
ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART SHEET: T4.2
SHEET: SKT-24




SEE SKETCH SKT-23

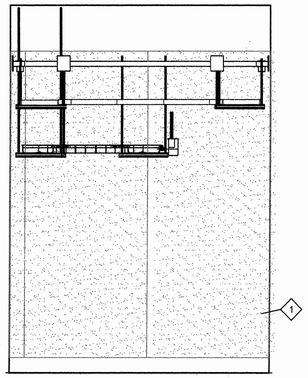
6 BACK OF RACKS

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



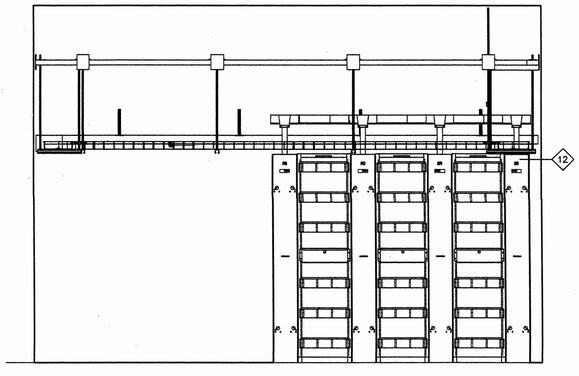

4 WEST WALL

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




2 SOUTH WALL

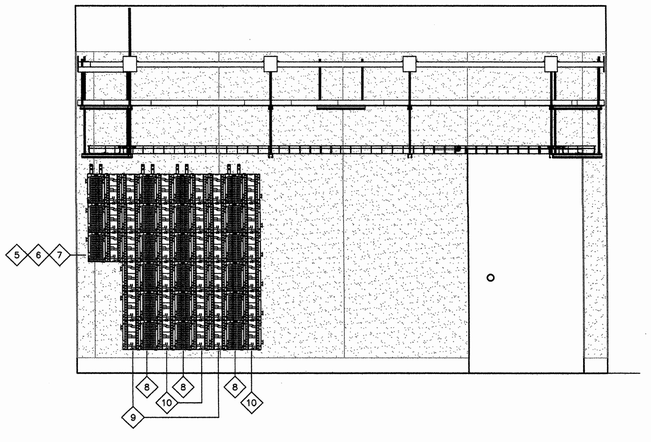
GRAPHIC SCALE: 1/2" = 1'-0"




SEE SKETCH SKT-24

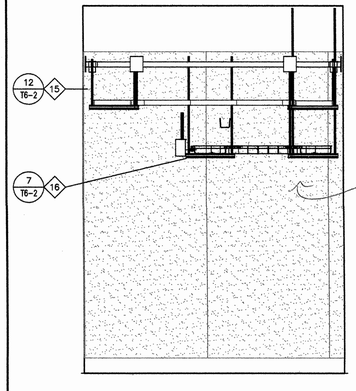
5 FRONT OF RACKS

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




3 EAST WALL

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




SEE EF1405, SHEET T3-2
(ALSO DTL 5/T3-2)

1 NORTH WALL

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

## KEY NOTES

1. ¾" TREATED FIRE RESISTANT PLYWOOD (PROVIDED AND INSTALLED BY ELECTRICAL)FROM +0'-6" A.F.F. TO +10'-6" A.F.F. (TYPICAL)
2. 12" X 2" STEEL WIRE CABLE TRAY AT +7'-2" A.F.F. (TYPICAL)
3. 15" CABLE LADDER AT +8'-9" A.F.F. (TYPICAL)
4. "U" CHANNEL SUPPORT GRID @ +10'-0" A.F.F. (TYPICAL)
5. KRONE TERMINAL BLOCKS AND VERTICAL CABLE MANAGERS SHALL BE MOUNTED TO PLYWOOD BACKBOARDS WITH 3/16" X 1½" HEX HEAD BOLTS. DRYWALL SCREWS NOT PERMITTED. (TYPICAL)
6. KRONE TERMINAL BLOCKS. (36) 8-PAIR ULTIM8 BLOCKS STACKED VERTICALLY FOR TERMINATION OF TELEPHONE BACKBONE CABLE. TERMINATE TELEPHONE BACKBONE CABLE ON ROWS 1-13.
7. KRONE TERMINAL BLOCKS. (36) 8-PAIR ULTIM8 BLOCKS STACKED VERTICALLY FOR TERMINATION OF TELEPHONE STATION CABLES. TERMINATE TELEPHONE STATION CABLES ON ROWS 14-36.
8. KRONE TERMINAL BLOCKS. (72) 8-PAIR ULTIM8 BLOCKS STACKED VERTICALLY IN ONE COLUMN. FOR TERMINATION OF UP TO 144 NETWORK STATION CABLES PER COLUMN.
9. KRONE VERTICAL WIRE MANAGER TO BE USED TO ROUTE (2) BUNDLES OF 72 STATION CABLES TO ADJACENT COLUMNS RIGHT.
10. KRONE VERTICAL WIRE MANAGERS. HOLD CLEAR. TO BE USED FOR INNERCONNECT CABLES PROVIDED AND INSTALLED BY OTHERS.
11. 20" X 4" COPPER GROUND BUS BAR, PROVIDED AND INSTALLED BY ELECTRICAL.
12. FIBER OPTIC SLOTTED DUCT KIT, 8' LONG WITH COVER. CONNECT 2" VERTICAL DUCT TO DOWNSPOUT INSERT FITTING AND LOCATE IN CENTER FRONT OF VERTICAL RACK CABLING SECTION.
13. 19" X 84" EQUIPMENT RACK. REFER TO DETAIL SHEET T6-4.
14. APC POWER DISTRIBUTION UNIT, WHITE, 4'-0", 3 WIRE 1 CIRCUIT STRIP WITH 24 SINGLE OUTLETS. MOUNTED TO BACK SIDE OF VERTICAL RACK CABLING SECTION. PLUG STRIP SHALL HAVE A POWER CORD WITH A NEMA L5-20 PLUG FOR CONNECTION TO OVERHEAD ELECTRICAL BUSWAY SYSTEM INSTALLED BY OTHERS. APC POWER DISTRIBUTION UNIT - AP7620.
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16. "U" FRAMING CHANNEL DOUBLE TRAPEZE ASSEMBLY, TYPICAL. REFER TO DETAIL SHEET T6-2.
17. STARLINE BUSWAY SYSTEM, TYPICAL, PROVIDED AND INSTALLED BY ELECTRICAL. SHOWN FOR REFERENCE ONLY.


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INFRASTRUCTURE DESIGN ASSOCIATES
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Suite 304
Oakland, CA 94612
EXPIRES: 12/31/06
Regis. No. 08608
SIGNATURE
consultant


name
address
city, state, zip
ph fc

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

1/2"=1'-0"

drawing title: ELEVATIONS - WALL & RACK - IDF 2.0 (ROOM 209)
building no: LMC SCIENCE 313-023-T12.01-0-00.00
drawing no: T4-2
drawing of

G:\Los Medanos College\Science Building\BID Set\acad\T4-2.dwg 11-08-04 10:06:15AM cmendoza

ENTIRE SHEET DELETED PER ADDENDUM No.

## KEY NOTES

1. TERMINATE 36-STRAND MM CABLE FROM CDF IN (E) ADMINISTRATION BUILDING TO BDF/IDF 1.0 (ROOM 151) IN SCIENCE BUILDING (CDF-151-001-036MM) AT DUPLEX SC ADAPTER/RETAINER POSITIONS 01-18.

   TERMINATE 24-STRAND MM CABLE FROM IDF 2.0 (ROOM 209) TO BDF/IDF 1.0 (ROOM 151) IN SCIENCE BUILDING (151-209-037-060MM) AT DUPLEX SC ADAPTER/RETAINER POSITIONS 19-30.

   ALL MULTIMODE FIBER OPTIC CABLE STRANDS SHALL BE TESTED IN TWO DIRECTIONS AT 850 nm AND 1300 nm WITH AN ATTENUATION METER, LIGHT SOURCE AND AN OTDR. SEE SPECIFICATION SECTION 16742 FOR LOSS BUDGET CALCULATIONS AND TESTING REQUIREMENTS.

   RACK MOUNT SHELF FS.03 IN EQUIPMENT RACK IN BDF/IDF 1.0.

2. FULLY ENCLOSED 36-POSITION (FOR UP TO 72 FIBERS) FIBER OPTIC TERMINATION SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH OSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 36 MULTIMODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELVES SHALL BE CORNING PART NUMBER CCH-02U.

3. LABELING FONT SHALL BE HELVETICA, 10 POINT.

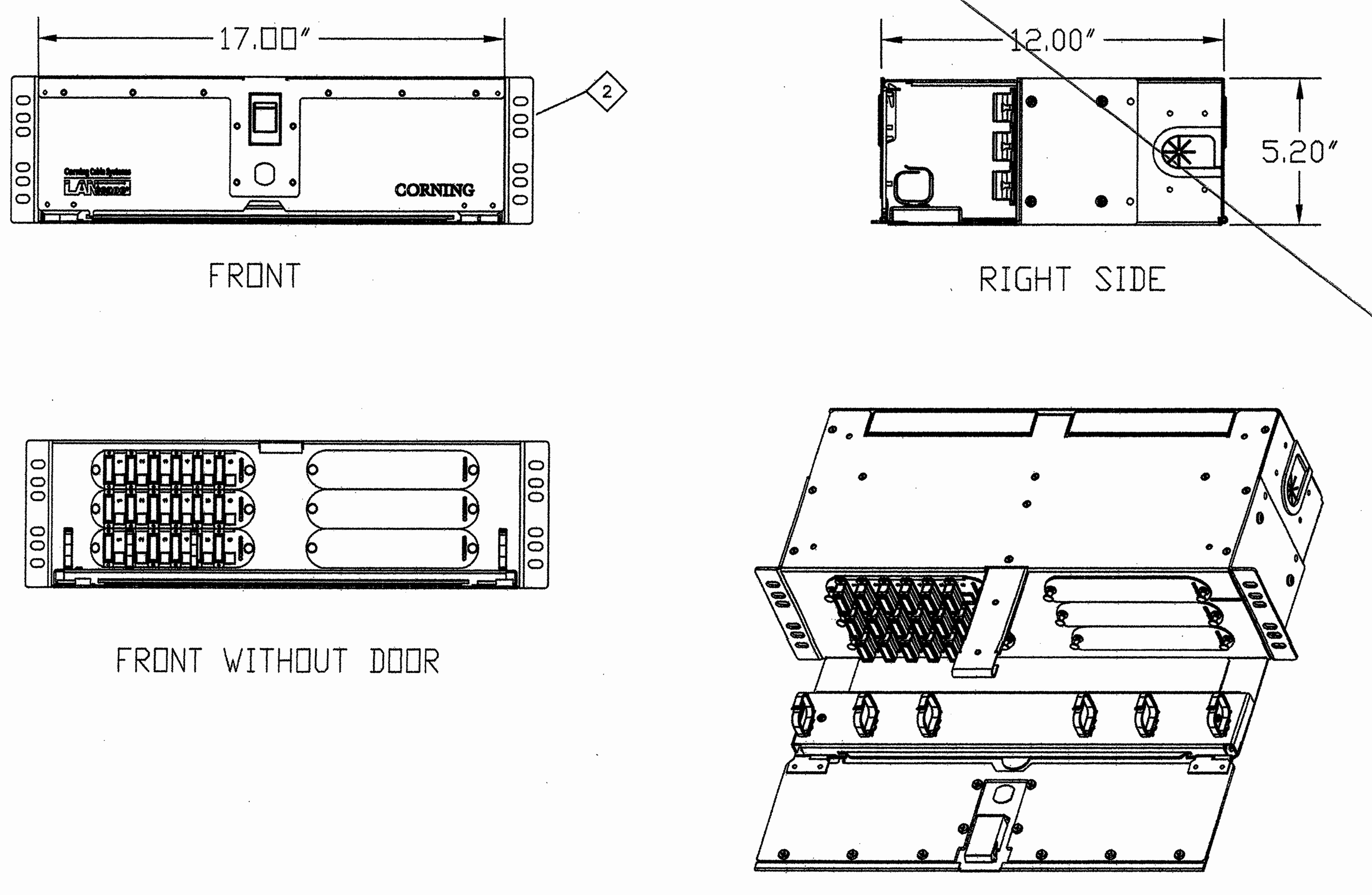
4. PROVIDE A 30 FOOT SERVICE LOOP (MINIMUM) OF EACH FIBER OPTIC CABLE SHEATH. THE SERVICE LOOP SHALL BE WALL MOUNTED BELOW THE LOWER LEVEL OF STEEL WIRE CABLE TRAY USING 'D'-RINGS.

5. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE MULTIMODE LABEL SHALL BE ORANGE.

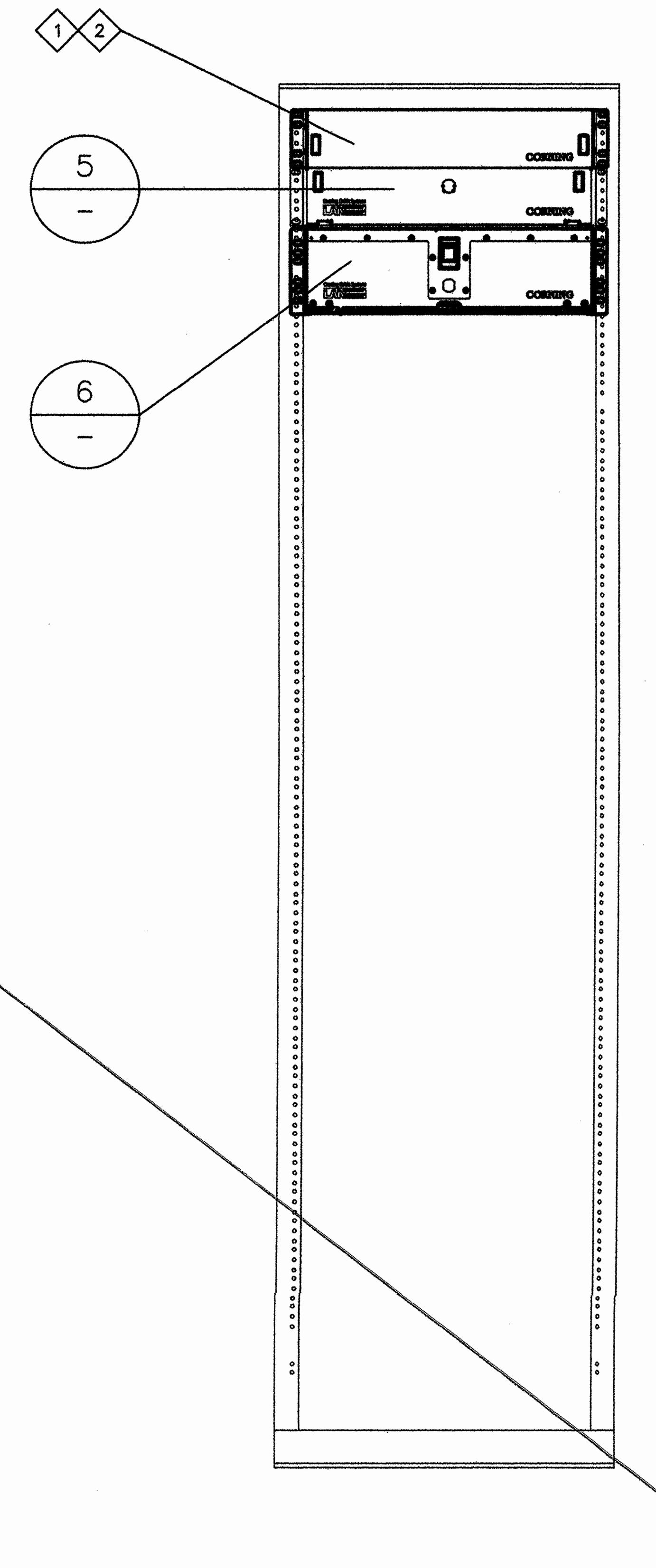
6. THE FIBER OPTIC CABLE SHEATH(S) SHALL BE LABELED WITHIN 12 INCHES OF THE FIBER TERMINATION SHELF. FIBER OPTIC CABLE LABELS SHALL CONSIST OF STAINLESS STEEL TAG TIE WRAPPED AT BOTH ENDS TO THE CABLE SHEATH AND STAMPED WITH THE FIBER OPTIC CABLE ID NUMBER AS SHOWN IN THE DRAWINGS AND SPECIFICATION SECTION 16735.

7. THE FIBER OPTIC CABLE SHEATH SHALL BE SECURED TO THE FIBER OPTIC TERMINATION SHELF WITH A CLAMP FROM THE MANUFACTURER OF THE FIBER OPTIC TERMINATION SHELF. THE CABLE SHEATH CLAMP SHALL BE CORNING PART NO. CCH-UCC-KIT. THE CLAMP KIT IS PROVIDED WITH BUSHINGS TO INSURE THE CABLE SHEATH IS PROPERLY SECURED IN THE CLAMP.

8. PROVIDE AND INSTALL IN POSITIONS 01-30, (5) CLOSET CONNECTOR HOUSING MODULES FOR COUPLING MULTI-MODE FIBER OPTIC CONNECTIONS IN 30 DUPLEX SC ADAPTERS, CORNING PART NUMBER CCH-CP12-91.




(6) FS.03 MULTIMODE CONNECTOR HOUSING W/ DUPLEX SC PANELS




## KEY NOTES

1. 12-STRAND SM CABLE FROM CDF IN (E) ADMINISTRATION BLDG. SHALL BE FUSION SPLICED TO PIGTAIL ASSEMBLIES IN BDF/IDF 1.0 (ROOM 151) IN SCIENCE BUILDING. FUSION SPLICES SHALL BE LOCATED IN SPLICE TRAYS WHICH SHALL BE POSITIONED IN A REAR-MOUNTED SPLICE HOUSING DESIGNED TO UTILIZE THE OPEN SPACE BEHIND THE 2U JUMPER MANAGEMENT PANEL.

   REAR-MOUNTED CLOSET SPLICE HOUSING SHALL BE CORNING PART NO. CJH-02U.

   THE METAL SPLICE TRAYS WITH STRAIN-RELIEF POINTS FOR SECURING PIGTAILS TO THE TRAYS SHALL HOLD TWELVE (12) HEAT-SHRINK FUSION SPLICES. FOUR (4) REQUIRED. CORNING PART NO. M67-048.

2. 2U JUMPER MANAGEMENT PANEL SHALL MOUNT ON THE FRONT OF EQUIPMENT RACK, WITH THE SPLICE HOUSING MOUNTED IN THE SAME LOCATION, BUT ACCESSIBLE FROM THE REAR. CORNING PART NO. CJP-02U.

(4) BDF/IDF 1.0 (ROOM 151) EQUIPMENT RACK ELEVATION

## KEY NOTES

1. TERMINATE 12-STRAND SM CABLE FROM BDF/IDF 1.0 (ROOM 151) TO IDF 2.0 (ROOM 209) IN SCIENCE BUILDING (151-209-073-084SM) AT DUPLEX SC ADAPTER/RETAINER POSITIONS 01-06.

   ALL SINGLE MODE FIBER OPTIC CABLE STRANDS SHALL BE TESTED IN TWO DIRECTIONS AT 1310 nm AND 1550 nm WITH AN ATTENUATION METER, LIGHT SOURCE AND AN OTDR. SEE SPECIFICATION SECTION 16742 FOR LOSS BUDGET CALCULATIONS AND TESTING REQUIREMENTS.

   RACK MOUNT SHELF FS.02 IN EQUIPMENT RACK IN IDF 2.0.

2. FULLY ENCLOSED 24-POSITION (FOR UP TO 48 FIBERS) FIBER OPTIC TERMINATION AND SPLICE SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH OSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 24 SINGLE MODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELVES SHALL BE CORNING PART NUMBER CCS-03U.

3. LABELING FONT SHALL BE HELVETICA, 10 POINT.

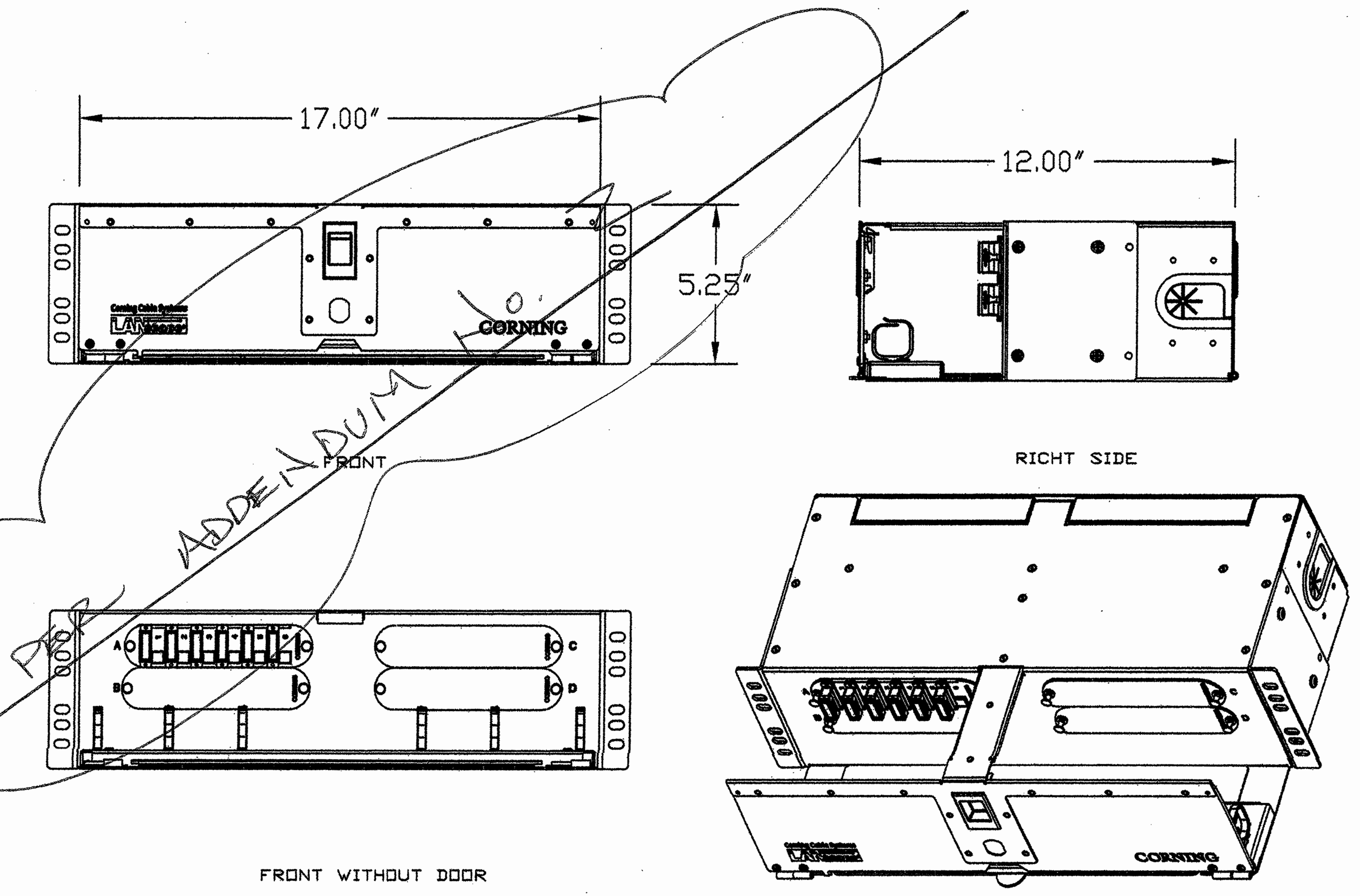
4. PROVIDE A 30 FOOT SERVICE LOOP (MINIMUM) OF EACH FIBER OPTIC CABLE SHEATH. THE SERVICE LOOP SHALL BE WALL MOUNTED BELOW THE LOWER LEVEL OF STEEL WIRE CABLE TRAY USING 'D'-RINGS.

5. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE MULTIMODE LABEL SHALL BE ORANGE AND THE SINGLE MODE LABEL SHALL BE YELLOW.

6. THE FIBER OPTIC CABLE SHEATH(S) SHALL BE LABELED WITHIN 12 INCHES OF THE FIBER TERMINATION SHELF. FIBER OPTIC CABLE LABELS SHALL CONSIST OF STAINLESS STEEL TAG TIE WRAPPED AT BOTH ENDS TO THE CABLE SHEATH AND STAMPED WITH THE FIBER OPTIC CABLE ID NUMBER AS SHOWN IN THE DRAWINGS AND SPECIFICATION SECTION 16735.

7. CONTRACTOR SHALL SECURE THE FIBER OPTIC CABLE SHEATH SHALL BE SECURED TO THE FIBER OPTIC TERMINATION SHELF WITH A CLAMP FROM THE MANUFACTURER OF THE FIBER OPTIC TERMINATION SHELF. THE CABLE SHEATH CLAMP SHALL BE CORNING PART NO. CCH-UCC-KIT. THE CLAMP KIT IS PROVIDED WITH BUSHINGS TO INSURE THE CABLE SHEATH IS PROPERLY SECURED IN THE CLAMP.

8. PROVIDE AND INSTALL IN POSITIONS 01-06, (1) CLOSET CONNECTOR HOUSING PIGTAIL MODULE FOR COUPLING SINGLE MODE FIBER OPTIC CONNECTIONS IN 6 DUPLEX SC ADAPTERS, CORNING PART NUMBER CCH-CM12-72-P03-RH.




(2) FS.02 SINGLE MODE CONNECTOR AND SPLICE HOUSING

## KEY NOTES

1. TERMINATE 12-STRAND SM CABLE FROM CDF IN (E) ADMINISTRATION BLDG. TO BDF/IDF 1.0 (ROOM 151) IN SCIENCE BUILDING (CDF-151-061-072SM) AT DUPLEX SC ADAPTER/RETAINER POSITIONS 01-06.

   TERMINATE 12-STRAND SM CABLE FROM IDF 2.0 (ROOM 209) TO BDF/IDF 1.0 (ROOM 151) IN SCIENCE BUILDING (151-209-073-084SM) AT DUPLEX SC ADAPTER/RETAINER POSITIONS 07-12.

   ALL SINGLE MODE FIBER OPTIC CABLE STRANDS SHALL BE TESTED IN TWO DIRECTIONS AT 1350 nm AND 1500 nm WITH AN ATTENUATION METER, LIGHT SOURCE AND AN OTDR. SEE SPECIFICATION SECTION 16742 FOR LOSS BUDGET CALCULATIONS AND TESTING REQUIREMENTS.

   RACK MOUNT SHELF FS.04 IN EQUIPMENT RACK IN BDF/IDF 1.0.

2. FULLY ENCLOSED 24-POSITION (FOR UP TO 48 FIBERS) FIBER OPTIC TERMINATION SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH OSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 24 SINGLE MODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELF SHALL BE CORNING PART NUMBER CCH-02U.

3. LABELING FONT SHALL BE HELVETICA, 10 POINT.

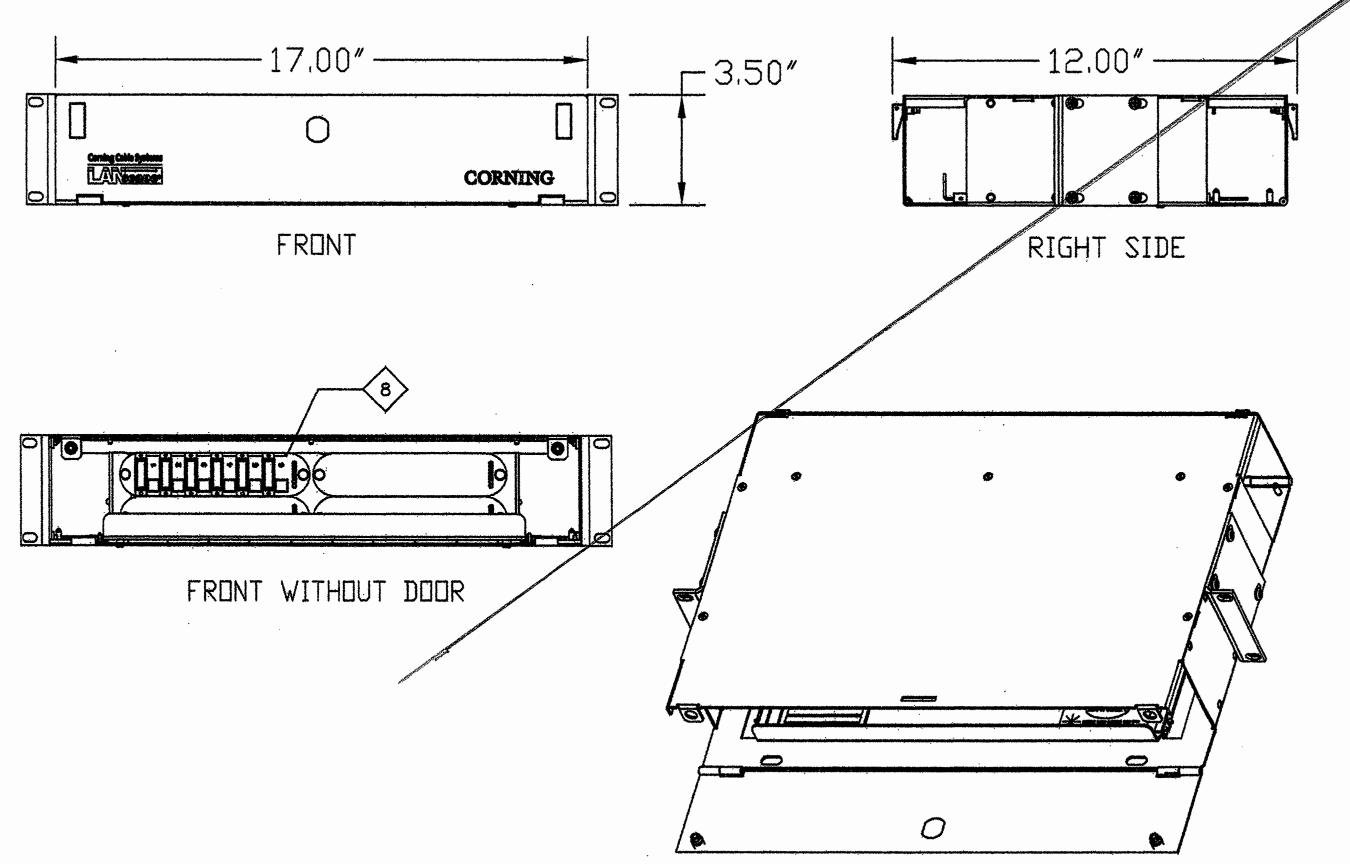
4. PROVIDE A 30 FOOT SERVICE LOOP (MINIMUM) OF EACH FIBER OPTIC CABLE SHEATH. THE SERVICE LOOP SHALL BE WALL MOUNTED BELOW THE LOWER LEVEL OF STEEL WIRE CABLE TRAY USING 'D'-RINGS.

5. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE SINGLE MODE LABEL SHALL BE YELLOW.

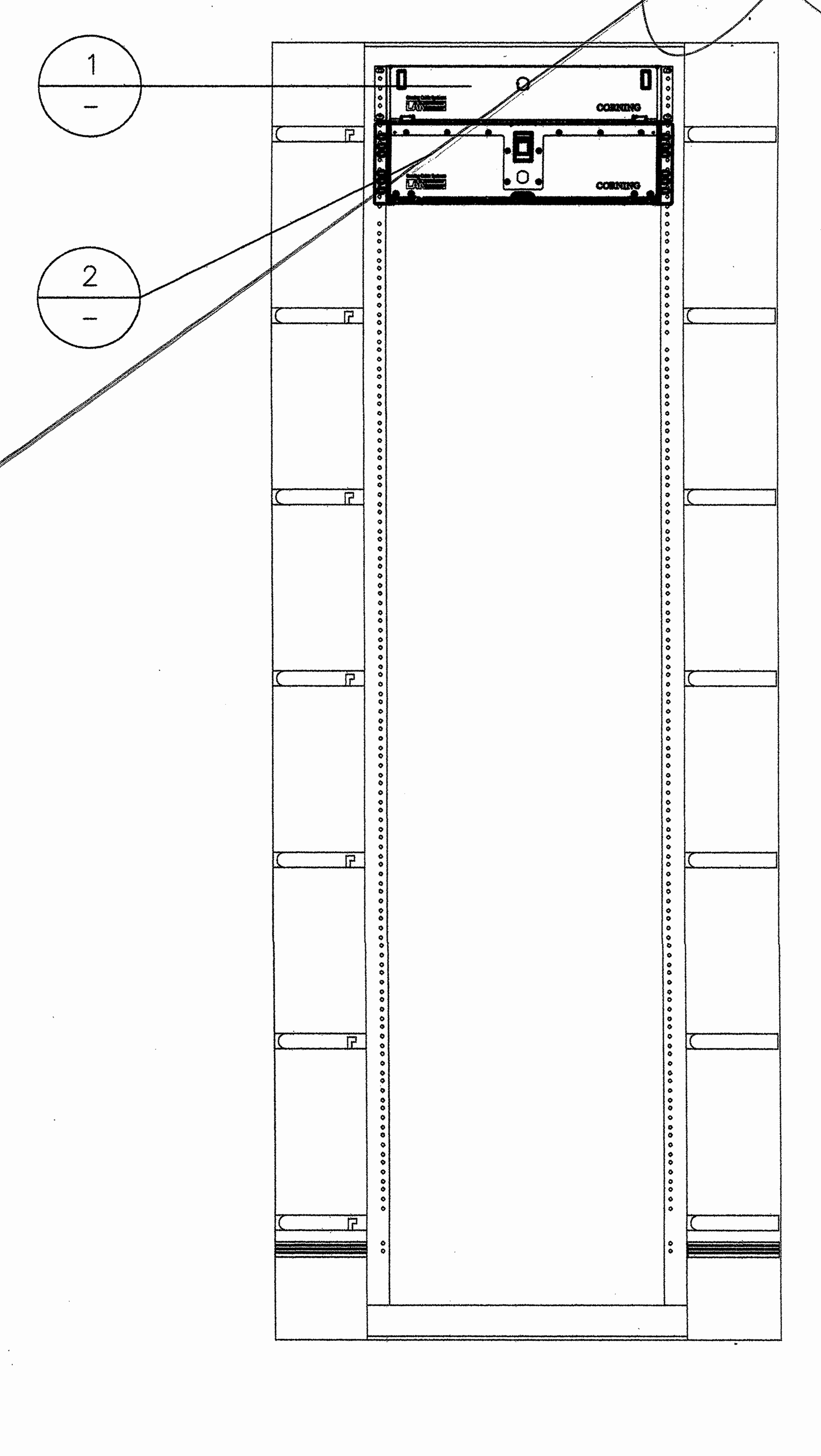
6. THE FIBER OPTIC CABLE SHEATH(S) SHALL BE LABELED WITHIN 12 INCHES OF THE FIBER TERMINATION SHELF. FIBER OPTIC CABLE LABELS SHALL CONSIST OF STAINLESS STEEL TAG TIE WRAPPED AT BOTH ENDS TO THE CABLE SHEATH AND STAMPED WITH THE FIBER OPTIC CABLE ID NUMBER AS SHOWN IN THE DRAWINGS AND SPECIFICATION SECTION 16735.

7. THE FIBER OPTIC CABLE SHEATH SHALL BE SECURED TO THE FIBER OPTIC TERMINATION SHELF WITH A CLAMP FROM THE MANUFACTURER OF THE FIBER OPTIC TERMINATION SHELF. THE CABLE SHEATH CLAMP SHALL BE CORNING PART NO. CCH-UCC-KIT. THE CLAMP KIT IS PROVIDED WITH BUSHINGS TO INSURE THE CABLE SHEATH IS PROPERLY SECURED IN THE CLAMP.

8. PROVIDE AND INSTALL IN POSITIONS 01-06, (1) CLOSET CONNECTOR HOUSING PIGTAIL MODULE FOR COUPLING SINGLE MODE FIBER OPTIC CONNECTIONS IN 12 DUPLEX SC ADAPTERS, CORNING PART NUMBER CCH-CM12-72-P03-RH.




(5) FS.04 SINGLE MODE CONNECTOR HOUSING W/ DUPLEX SC PANELS




(3) IDF 2.0 (ROOM 209) EQUIPMENT RACK ELEVATION

## KEY NOTES

1. TERMINATE 36-STRAND MM CABLE FROM BDF/IDF 1.0 (ROOM 151) TO IDF 2.0 (ROOM 209) IN SCIENCE BUILDING (151-209-037-060MM) AT DUPLEX SC ADAPTER/RETAINER POSITIONS 01-18.

   ALL MULTIMODE FIBER OPTIC CABLE STRANDS SHALL BE TESTED IN TWO DIRECTIONS AT 850 nm AND 1300 nm WITH AN ATTENUATION METER, LIGHT SOURCE AND AN OTDR. SEE SPECIFICATION SECTION 16742 FOR LOSS BUDGET CALCULATIONS AND TESTING REQUIREMENTS.

   RACK MOUNT SHELF FS.01 IN EQUIPMENT RACK IN IDF 2.0.

2. FULLY ENCLOSED 24-POSITION (FOR UP TO 48 FIBERS) FIBER OPTIC TERMINATION SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH OSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 24 MULTIMODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELVES SHALL BE CORNING PART NUMBER CCH-02U.

3. LABELING FONT SHALL BE HELVETICA, 10 POINT.

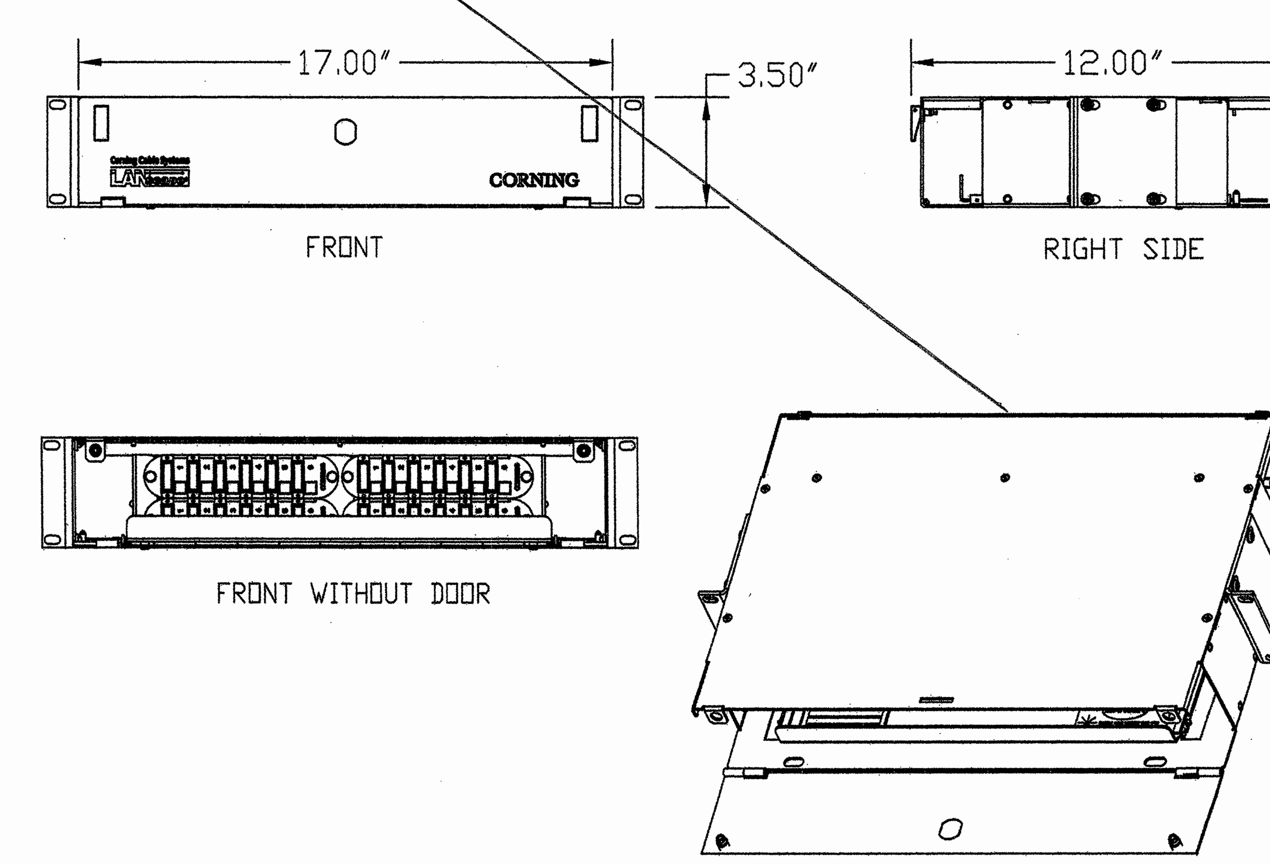
4. PROVIDE A 30 FOOT SERVICE LOOP (MINIMUM) OF EACH FIBER OPTIC CABLE SHEATH. THE SERVICE LOOP SHALL BE WALL MOUNTED BELOW THE LOWER LEVEL OF STEEL WIRE CABLE TRAY USING 'D'-RINGS.

5. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE MULTIMODE LABEL SHALL BE ORANGE AND THE SINGLE MODE LABEL SHALL BE YELLOW.

6. THE FIBER OPTIC CABLE SHEATH(S) SHALL BE LABELED WITHIN 12 INCHES OF THE FIBER TERMINATION SHELF. FIBER OPTIC CABLE LABELS SHALL CONSIST OF STAINLESS STEEL TAG TIE WRAPPED AT BOTH ENDS TO THE CABLE SHEATH AND STAMPED WITH THE FIBER OPTIC CABLE ID NUMBER AS SHOWN IN THE DRAWINGS AND SPECIFICATION SECTION 16735.

7. THE FIBER OPTIC CABLE SHEATH SHALL BE SECURED TO THE FIBER OPTIC TERMINATION SHELF WITH A CLAMP FROM THE MANUFACTURER OF THE FIBER OPTIC TERMINATION SHELF. THE CABLE SHEATH CLAMP SHALL BE CORNING PART NO. CCH-UCC-KIT. THE CLAMP KIT IS PROVIDED WITH BUSHINGS TO INSURE THE CABLE SHEATH IS PROPERLY SECURED IN THE CLAMP.

8. PROVIDE AND INSTALL IN POSITIONS 01-18, (3) CLOSET CONNECTOR HOUSING MODULES FOR COUPLING MULTIMODE FIBER OPTIC CONNECTIONS IN 18 DUPLEX SC ADAPTERS, CORNING PART NUMBER CCH-CP12-91.




(1) FS.01 MULTIMODE CONNECTOR HOUSING W/ DUPLEX SC PANELS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LOS MEDANOS COLLEGE
Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

drawing title: building no:
ELEVATIONS
FIBER OPTIC
TERMINATION SHELVES

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
T4-3
drawing of

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## GENERAL NOTES

THE FIBER OPTIC CABLE SHEATH AND STRENGTH MEMBER SHALL STOP AT THE CABLE SHEATH CLAMP OUTSIDE OF THE FIBER TERMINATION SHELF PER THE MANUFACTURERS SRP.

THE FIBER OPTIC CABLE SHEATH AND STRENGTH MEMBER SHALL BE SECURED TO THE OUTSIDE OF THE FIBER TERMINATION SHELF WITH A CABLE SHEATH CLAMP AND BUSHING FROM THE MANUFACTURER OF THE FIBER TERMINATION SHELF CORNING CABLE SYSTEMS CCH-UCC-KIT.

THE COUPLER IDENTIFICATION CARD SHALL BE LABELED WITH HELVETICA BOLD 14 POINT FONT.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

## KEY NOTES

1. FULLY ENCLOSED DUPLEX 36-POSITION (FOR UP TO 72 FIBERS) FIBER OPTIC TERMINATION SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH CSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 36 MULTIMODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELVES SHALL BE CORNING PART NUMBER CCH-02U, TO MATCH EXISTING.
2. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE MULTIMODE LABEL SHALL BE ORANGE.

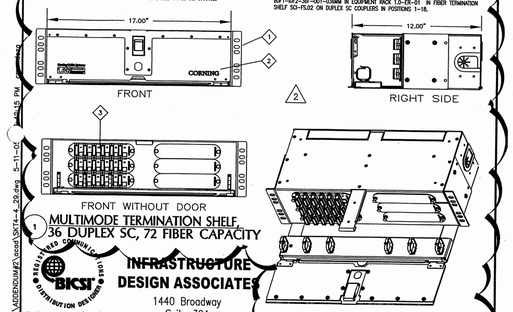
## CABLE TERMINATION NOTES

ADMINISTRATIVE BUILDING CDF TERMINATE 36 STRAND MULTIMODE FIBER OPTIC CABLE ADM-SCI-12F-001-0206M IN EXISTING EQUIPMENT RACK A2 IN FIBER TERMINATION SHELF ADM-SCI-FS.12 ON DUPLEX SC COUPLERS IN POSITIONS 1-18.

SCIENCE BUILDING BDF (ROOM 151) TERMINATE 36 STRAND MULTIMODE FIBER OPTIC CABLE ADM-SCI-36F-001-0206M IN EQUIPMENT RACK 1.0-ER-01 IN FIBER TERMINATION SHELF ADM-SCI-FS.06 ON DUPLEX SC COUPLERS IN POSITIONS 1-18.

SCIENCE BUILDING BDF (ROOM 151) TERMINATE 36 STRAND MULTIMODE FIBER OPTIC CABLE BDF1-DF2-36F-001-0206M IN EQUIPMENT RACK 1.0-ER-01 IN FIBER TERMINATION SHELF SCI-FS.04 ON DUPLEX SC COUPLERS IN POSITIONS 1-18.

SCIENCE BUILDING IDF (ROOM 209) TERMINATE 36 STRAND MULTIMODE FIBER OPTIC CABLE BDF1-DF2-36F-001-0206M IN EQUIPMENT RACK 1.0-ER-01 IN FIBER TERMINATION SHELF SCI-FS.02 ON DUPLEX SC COUPLERS IN POSITIONS 1-18.

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ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T4.4
SHEET: SKT-29

## GENERAL NOTES

THE FIBER OPTIC CABLE SHEATH AND STRENGTH MEMBER SHALL STOP AT THE CABLE SHEATH CLAMP OUTSIDE OF THE FIBER TERMINATION SHELF PER THE MANUFACTURERS SRP.

THE FIBER OPTIC CABLE SHEATH AND STRENGTH MEMBER SHALL BE SECURED TO THE OUTSIDE OF THE FIBER TERMINATION SHELF WITH A CABLE SHEATH CLAMP AND BUSHING FROM THE MANUFACTURER OF THE FIBER TERMINATION SHELF CORNING CABLE SYSTEMS CCH-UCC-KIT.

THE COUPLER IDENTIFICATION CARD SHALL BE LABELED WITH HELVETICA BOLD 14 POINT FONT.

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

## KEY NOTES

1. FULLY ENCLOSED DUPLEX 24-POSITION (FOR UP TO 48 FIBERS) FIBER OPTIC TERMINATION AND SPLICE SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH CSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 24 SINGLE MODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELVES SHALL BE CORNING PART NUMBER CCS-02U, TO MATCH EXISTING.
2. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE MULTIMODE LABEL SHALL BE ORANGE AND THE SINGLE MODE LABEL SHALL BE YELLOW.

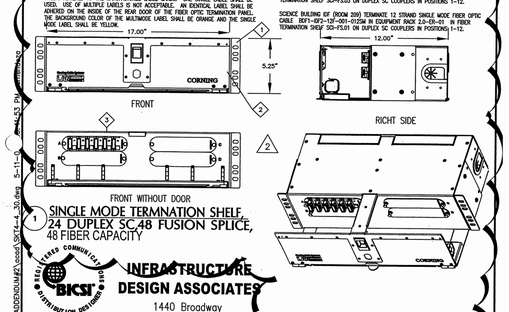
## CABLE TERMINATION NOTES

ADMINISTRATIVE BUILDING CDF TERMINATE 12 STRAND SINGLE MODE FIBER OPTIC CABLE ADM-SCI-12F-001-0125M IN EXISTING EQUIPMENT RACK A2 IN FIBER TERMINATION SHELF ADM-SCI-FS.11 ON DUPLEX SC COUPLERS IN POSITIONS 1-12.

SCIENCE BUILDING BDF (ROOM 151) TERMINATE 12 STRAND SINGLE MODE FIBER OPTIC CABLE ADM-SCI-12F-001-0125M IN EQUIPMENT RACK 1.0-ER-01 IN FIBER TERMINATION SHELF ADM-SCI-FS.05 ON DUPLEX SC COUPLERS IN POSITIONS 1-12.

SCIENCE BUILDING BDF (ROOM 151) TERMINATE 12 STRAND SINGLE MODE FIBER OPTIC CABLE BDF1-DF3-12F-001-0125M IN EQUIPMENT RACK 1.0-ER-01 IN FIBER TERMINATION SHELF SCI-FS.03 ON DUPLEX SC COUPLERS IN POSITIONS 1-12.

SCIENCE BUILDING IDF (ROOM 209) TERMINATE 12 STRAND SINGLE MODE FIBER OPTIC CABLE BDF1-DF2-12F-001-0125M IN EQUIPMENT RACK 2.0-ER-01 IN FIBER TERMINATION SHELF SCI-FS.01 ON DUPLEX SC COUPLERS IN POSITIONS 1-12.

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SHEET: SKT-30

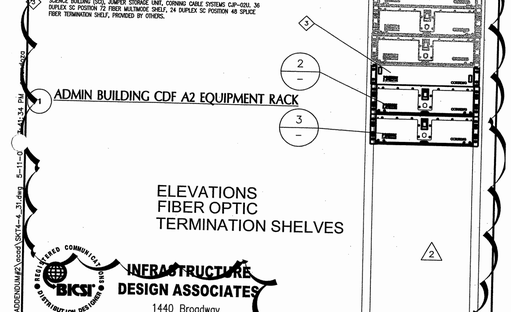
## GENERAL NOTES

(1) 12 STRAND SINGLE MODE AND (1) 36 STRAND MULTIMODE CABLES WILL ROUTE FROM THE ADMIN BUILDING CDF OUT TO THE INFORMATION RESOURCE CENTER (IRC), SCIENCE (SCI), AND MATH (MATH).

ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226

## KEY NOTES

1. INFORMATION RESOURCE CENTER (IRC), JUMPER STORAGE UNIT, CORNING CABLE SYSTEMS CJP-02U, 36 DUPLEX SC POSITION 72 FIBER MULTIMODE SHELF, 24 DUPLEX SC POSITION 48 SPLICE FIBER TERMINATION SHELF, PROVIDED BY OTHERS.
2. MATH BUILDING (MATH), JUMPER STORAGE UNIT, CORNING CABLE SYSTEMS CJP-02U, 36 DUPLEX SC POSITION 72 FIBER MULTIMODE SHELF, 24 DUPLEX SC POSITION 48 SPLICE FIBER TERMINATION SHELF, PROVIDED BY OTHERS.
3. SCIENCE BUILDING (SCI), JUMPER STORAGE UNIT, CORNING CABLE SYSTEMS CJP-02U, 36 DUPLEX SC POSITION 72 FIBER MULTIMODE SHELF, 24 DUPLEX SC POSITION 48 SPLICE FIBER TERMINATION SHELF, PROVIDED BY OTHERS.

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SHEET: SKT-31


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# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 202417.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|
| | | |

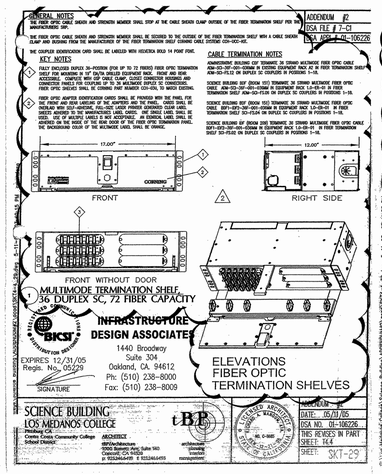
drawing title:

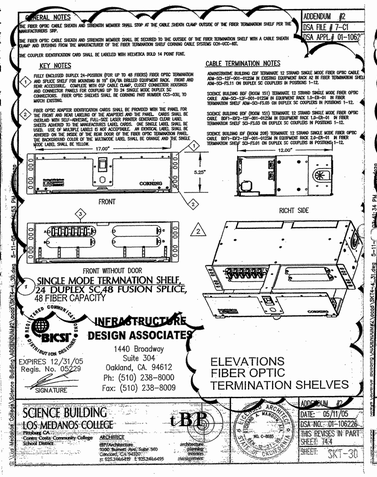
ADDENDUM # 2 DRAWINGS

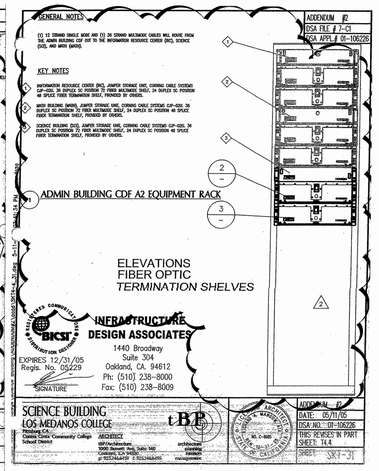
LMC SCIENCE 313-023-T12.01-0-00.00

drawing no.:

ATTACHMENT TO T4-4




## KEY NOTES

1. TERMINATE 12-STRAND SM CABLE FROM BOF/DF 1.0 (ROOM 151) IN SCIENCE BUILDING (CDF-151-061-072MM) TO CDF IN (E) ADMINISTRATION BLDG. AT DUPLEX SC ADAPTER/RETAINER POSITIONS 01-06.

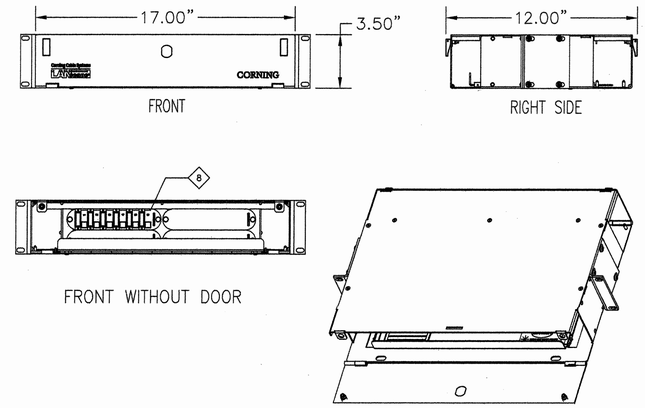
   RACK MOUNT SHELF FS.04 IN EQUIPMENT RACK NUMBER A2 IN CDF.

2. FULLY ENCLOSED 24-POSITION (FOR UP TO 48 FIBERS) FIBER OPTIC TERMINATION SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH OSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 24 SINGLE MODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELF SHALL BE CORNING PART NUMBER CCH-02U, TO MATCH EXISTING. PROVIDE AND INSTALL IN POSITIONS 01-06, (1) CLOSET CONNECTOR HOUSING PIGTAIL MODULE FOR COUPLING SINGLE MODE FIBER OPTIC CONNECTIONS IN 12 DUPLEX SC ADAPTERS, CORNING PART NUMBER CCH-CM12-72-P03-RH, TO MATCH EXISTING.

3. LABELING FONT SHALL BE HELVETICA, 10 POINT.

4. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE SINGLE MODE LABEL SHALL BE YELLOW.

5. THE FIBER OPTIC CABLE SHEATH SHALL BE SECURED TO THE FIBER OPTIC TERMINATION SHELF WITH A CLAMP FROM THE MANUFACTURER OF THE FIBER OPTIC TERMINATION SHELF. THE CABLE SHEATH CLAMP SHALL BE CORNING PART NO. CCH-UCC-KIT, TO MATCH EXISTING. THE CLAMP KIT IS PROVIDED WITH BUSHINGS TO INSURE THE CABLE SHEATH IS PROPERLY SECURED IN THE CLAMP.




## 2 FS.04 SINGLE MODE CONNECTOR HOUSING W/ DUPLEX SC PANELS

## KEY NOTES

1. TERMINATE 36-STRAND MM CABLE FROM BOF/DF 1.0 (ROOM 151) IN SCIENCE BUILDING TO CDF IN (E) ADMINISTRATION BUILDING (CDF-151-001-036MM) AT DUPLEX SC ADAPTER/RETAINER POSITIONS 01-18.

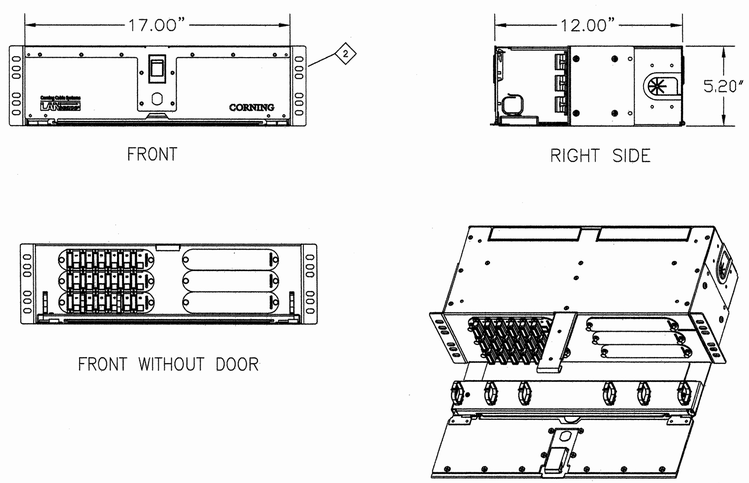
   RACK MOUNT SHELF FS.03 IN EQUIPMENT RACK NUMBER A2 IN CDF.

2. FULLY ENCLOSED 24-POSITION (FOR UP TO 48 FIBERS) FIBER OPTIC TERMINATION SHELF FOR MOUNTING IN 19" EIA/TIA DRILLED EQUIPMENT RACK. FRONT AND REAR ACCESSIBLE. COMPLETE WITH OSP CABLE CLAMP, CLOSET CONNECTOR HOUSINGS AND CONNECTOR PANELS FOR COUPLING UP TO 24 MULTIMODE DUPLEX SC CONNECTORS. FIBER OPTIC SHELVES SHALL BE CORNING PART NUMBER CCH-02U, TO MATCH EXISTING. PROVIDE AND INSTALL IN POSITIONS 01-18, (3) CLOSET CONNECTOR HOUSING MODULES FOR COUPLING MULTI-MODE FIBER OPTIC CONNECTIONS IN 18 DUPLEX SC ADAPTERS, CORNING PART NUMBER CCH-CP12-91, TO MATCH EXISTING.

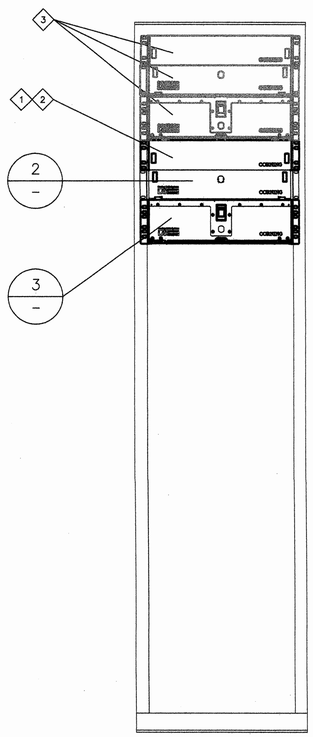
3. LABELING FONT SHALL BE HELVETICA, 10 POINT.

4. FIBER OPTIC ADAPTER IDENTIFICATION CARDS SHALL BE PROVIDED WITH THE PANEL FOR THE FRONT AND REAR LABELING OF THE ADAPTERS AND THE PANEL. CARDS SHALL BE OVERLAID WITH SELF-ADHESIVE, FULL-SIZE LASER PRINTER GENERATED CLEAR LABEL SHEETS ADHERED TO THE MANUFACTURES LABEL CARDS. ONE SINGLE LABEL SHALL BE USED. USE OF MULTIPLE LABELS IS NOT ACCEPTABLE. AN IDENTICAL LABEL SHALL BE ADHERED ON THE INSIDE OF THE REAR DOOR OF THE FIBER OPTIC TERMINATION PANEL. THE BACKGROUND COLOR OF THE MULTIMODE LABEL SHALL BE ORANGE.

5. THE FIBER OPTIC CABLE SHEATH SHALL BE SECURED TO THE FIBER OPTIC TERMINATION SHELF WITH A CLAMP FROM THE MANUFACTURER OF THE FIBER OPTIC TERMINATION SHELF. THE CABLE SHEATH CLAMP SHALL BE CORNING PART NO. CCH-UCC-KIT, TO MATCH EXISTING. THE CLAMP KIT IS PROVIDED WITH BUSHINGS TO INSURE THE CABLE SHEATH IS PROPERLY SECURED IN THE CLAMP.




## 3 FS.03 MULTIMODE CONNECTOR HOUSING W/ DUPLEX SC PANELS



## KEY NOTES

1. 12-STRAND SM CABLE FROM BOF/DF 1.0 (ROOM 151) IN SCIENCE BUILDING SHALL BE FUSION SPLICED TO PIGTAIL ASSEMBLIES IN CDF IN (E) ADMINISTRATION BLDG. FUSION SPLICES SHALL BE LOCATED IN SPLICE TRAYS WHICH SHALL BE POSITIONED IN A REAR-MOUNTED SPLICE HOUSING DESIGNED TO UTILIZE THE OPEN SPACE BEHIND THE 2U JUMPER MANAGEMENT PANEL.

   REAR-MOUNTED CLOSET SPLICE HOUSING SHALL BE CORNING PART NO. CJH-02U, TO MATCH EXISTING.

   THE METAL SPLICE TRAYS WITH STRAIN-RELIEF POINTS FOR SECURING PIGTAILS TO THE TRAYS SHALL HOLD TWELVE (12) HEAT-SHRINK FUSION SPLICES. FOUR (4) REQUIRED. CORNING PART NO. M67-046, TO MATCH EXISTING.

2. 2U JUMPER MANAGEMENT PANEL SHALL MOUNT ON THE FRONT OF EQUIPMENT RACK, WITH THE SPLICE HOUSING MOUNTED IN THE SAME LOCATION, BUT ACCESSIBLE FROM THE REAR. CORNING PART NO. CJP-02U, TO MATCH EXISTING.

3. (E) FIBER OPTIC HOUSINGS.

## 1 CDF (ADMIN. BLDG.) A2 EQUIPMENT RACK ELEVATION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planning
interiors
management

tBP/Architecture
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Concord, CA 94520
p: 925/246-6419 f: 925/246-6495



INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA. 94612
EXPIRES 12/31/06
Regis. No. 06606
SIGNATURE


consultant

DENOTES STAMP ON ORIGINAL DRAWING OF OFFICE OF REGULATION SERVICES

name
address
city, state, zip
ph:
fx:

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

drawing title: building no:

ELEVATIONS
FIBER OPTIC
TERMINATION SHELVES

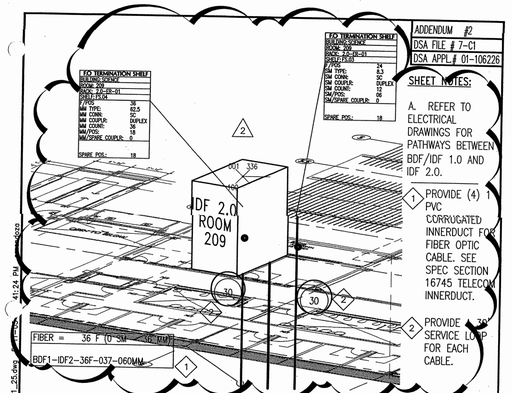
LMC SCIENCE 313-023-T12.01-0-00.00

drawing no:

T4-4

drawing of

G:\Los Medanos College\Science Building\BID Set\acad\T4-4.dwg 11-08-04 09:53:29 AM cmendoza




ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

**SHEET NOTES:**

A. REFER TO ELECTRICAL DRAWINGS FOR PATHWAYS BETWEEN BDF/IDF 1.0 AND IDF 2.0.

1. PROVIDE (4) 1" PVC CORRUGATED INNERDUCT FOR FIBER OPTIC CABLE. SEE SPEC SECTION 16745 TELECOM INNERDUCT.
2. PROVIDE A 30' SERVICE LOOP FOR EACH CABLE.

## FIBER OPTIC AND COPPER BACKBONE RISER DIAGRAM

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

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Ph: (510) 238-8000
Fax: (510) 238-8009

RISER DIAGRAM
FIBER OPTIC &
COPPER BACKBONE

**SCIENCE BUILDING**
**LOS MEDANOS COLLEGE**
Pittsburg CA
Contra Costa Community College School District

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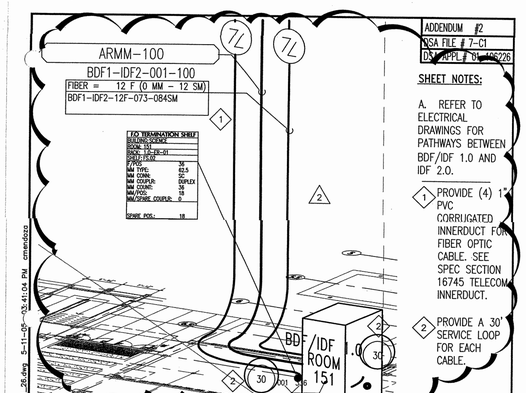
architecture planning interiors management

LICENSED ARCHITECT RICHARD A. MARSHALL NO. C-8685 REGISTERED PROFESSIONAL ARCHITECT STATE OF CALIFORNIA

ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T5.1
SHEET: SKT-25




ADDENDUM #2
DSA FILE # 7-C1
DSA APPL.# 01-106226

**SHEET NOTES:**

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## FIBER OPTIC AND COPPER BACKBONE RISER DIAGRAM

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FIBER OPTIC &
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ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
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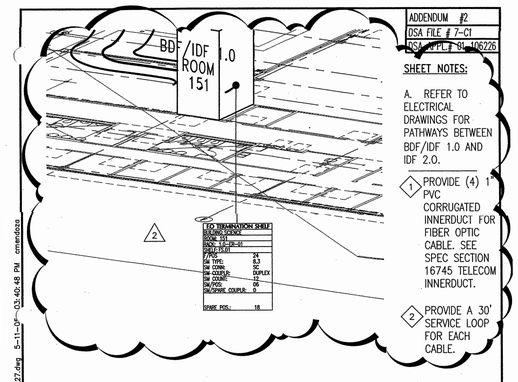
SHEET: T5.1
SHEET: SKT-26

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DSA FILE # 7-C1
DSA APPL.# 01-106226

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## FIBER OPTIC AND COPPER BACKBONE RISER DIAGRAM

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**SCIENCE BUILDING**
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architecture planning interiors management

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ADDENDUM #2
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: T5.1
SHEET: SKT-27

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architecture planning interiors management

LICENSED ARCHITECT RICHARD A. MARSHALL NO. C-8685 REGISTERED PROFESSIONAL ARCHITECT STATE OF CALIFORNIA

architect

consultant

REVIEWING STAFF
DIV. OF ARCHITECTURE
OFFICE OF REGULATORY SERVICES
APP. NO. 01-106226
AC. _____ FLS. _____ SS. _____
DATE _____

File No 7/C1
Division of the State Architect
Regional Office
1515 Clay St, Suite 1201
Oakland, CA 94612
p: 415-396-9500 f:

agency

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 202471.00

file name:

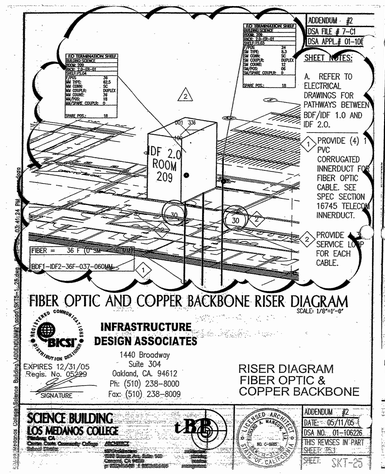
drawn by: checked by:

date: NOVEMBER 15, 2004

| Rev: | date: | description: |
|---|---|---|
| | | |

drawing title:
ADDENDUM # 2 DRAWINGS

LMC SCIENCE 313-023-T12.01-0-00.00
drawing no:
ATTACHMENT TO T5-1


IDF 2.0
ROOM
209
FIBER = 36 F (0 SM - 36 MM)
BDF1-IDF2-36F-037-0604M
ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226
SHEET NOTES:
A. REFER TO ELECTRICAL DRAWINGS FOR PATHWAYS BETWEEN BDF/IDF 1.0 AND IDF 2.0.
1 PROVIDE (4) 1" PVC CORRUGATED INNERDUCT FOR FIBER OPTIC CABLE. SEE SPEC SECTION 16745 TELECOM INNERDUCT.
2 PROVIDE A 30' SERVICE LOOP FOR EACH CABLE.
FIBER OPTIC AND COPPER BACKBONE RISER DIAGRAM
SCALE: 1/8"=1'-0"
INFRASTRUCTURE DESIGN ASSOCIATES
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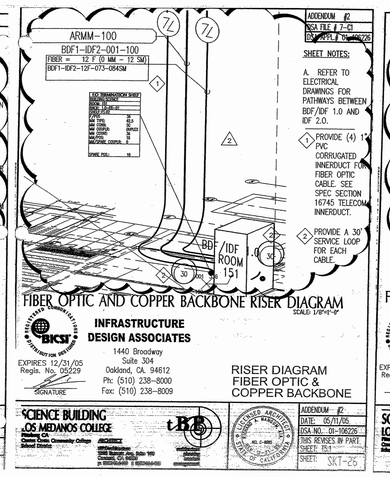
FIBER OPTIC &
COPPER BACKBONE
SCIENCE BUILDING
LOS MEDANOS COLLEGE
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: TS.1
SHEET: SKT-25


ARMM-100
BDF1-IDF2-001-100
FIBER = 12 F (0 MM - 12 SM)
BDF1-IDF2-12F-073-0543M
BDF
IDF
ROOM
151
ADDENDUM #2
DSA FILE # 7-C1
DSA APPL # 01-106226
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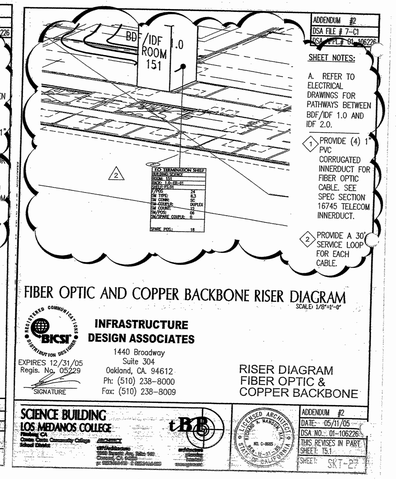
THIS REVISES IN PART
SHEET: TS.1
SHEET: SKT-26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DSA APPL # 01-106226
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LOS MEDANOS COLLEGE
DATE: 05/11/05
DSA NO. 01-106226
THIS REVISES IN PART
SHEET: TS.1
SHEET: SKT-27

| MATED-PAIR CONNECTOR RETURN LOSS | |
|---|---|
| TYPE | dB (max) |
| MULTIMODE | 0.4 |
| SINGLE MODE | 0.4 |

| FUSION SPLICE ATTENUATION | |
|---|---|
| TYPE | dB (max) |
| SINGLE MODE | 0.1 |

| MAXIMUM CABLE LOSS | | | | |
|---|---|---|---|---|
| | WAVE LENGTH | | | |
| TYPE | 850 nm | 1300 nm | 1310 nm | 1550 nm |
| MULTIMODE | 3.5 dB/km | 1.0 dB/km | | |
| SINGLE MODE | | | 0.4 dB/km | 0.3 dB/km |

## 2 ATTENUATION BUDGET LOSS SCHEDULES

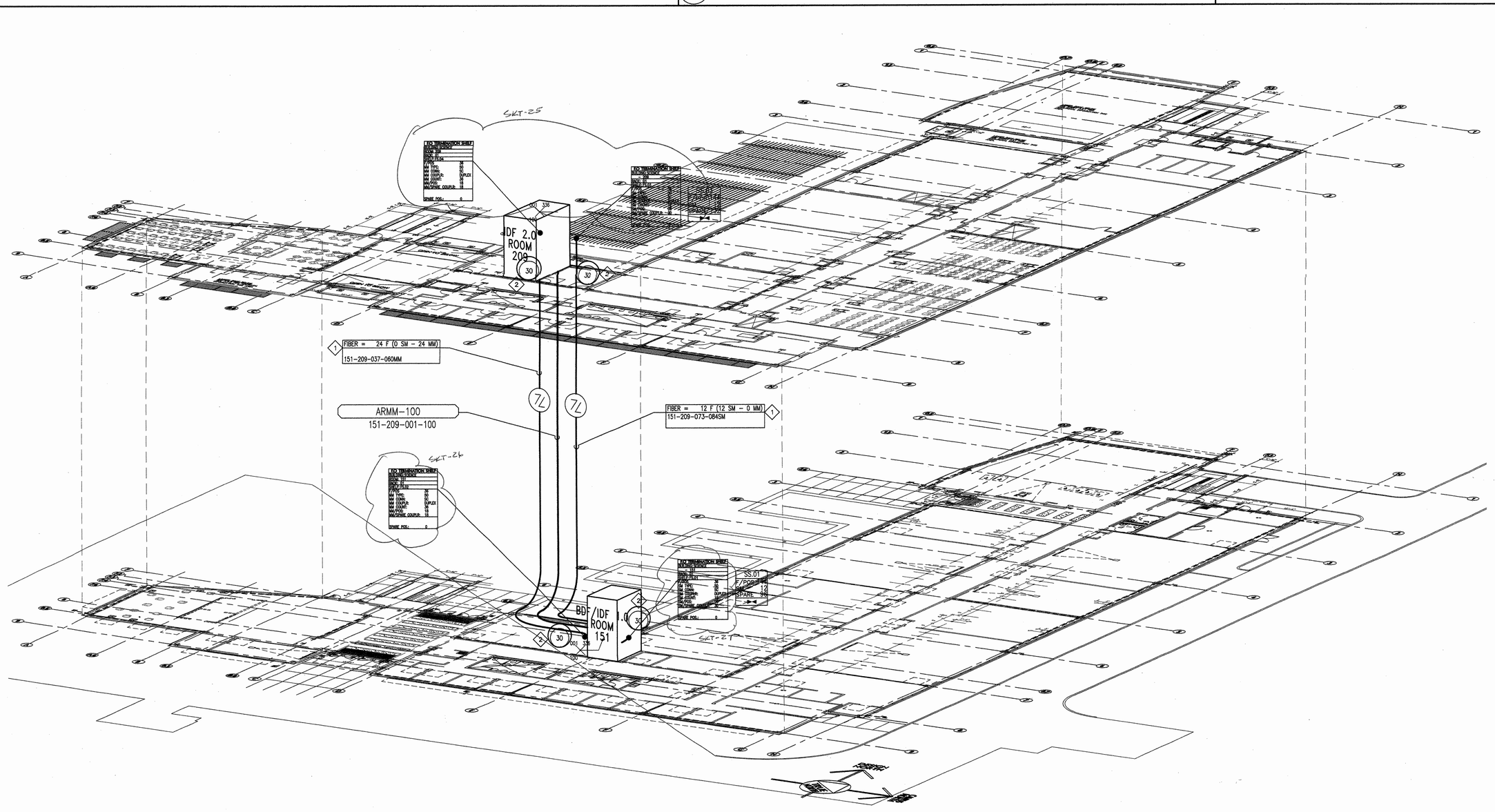
**SHEET NOTES:**

A. ALL EQUIPMENT SHOWN IS WORK OF THIS PHASE, UNLESS OTHERWISE NOTED.

B. ALL SINGLE MODE OPTICAL FIBER IS 50/125 MICRON, OFNP RATED, UNLESS OTHERWISE NOTED.

C. REFER TO ELECTRICAL DRAWINGS FOR PATHWAYS BETWEEN BDF/IDF 1.0 AND IDF 2.0.

1. PROVIDE 1" PLENUM-RATED INNERDUCT FOR FIBER OPTIC CABLE.
2. PROVIDE A 30' SERVICE LOOP FOR EACH CABLE.




## 1 FIBER OPTIC AND COPPER BACKBONE RISER DIAGRAM

SCALE: 1/8"=1'-0"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Oakland, CA 94612
EXPIRES 12/31/06
Regis. No. 06606
SIGNATURE


consultant

name
address
city, state, zip
ph: fc

# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

1/8"=1'-0"

drawing title: building no:
RISER DIAGRAM
FIBER OPTIC &
COPPER BACKBONE

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
T5-1
drawing of

G:\Los Medanos College\Science Building\BID Set\ocad\T5-1.dwg 11-08-04 08:52:30 AM cmendoza

## 11 WALL BOX FLUSH DOUBLE GANG ANGLED FACEPLATE - WBFD1200
(1) TELEPHONE, (2) NETWORK

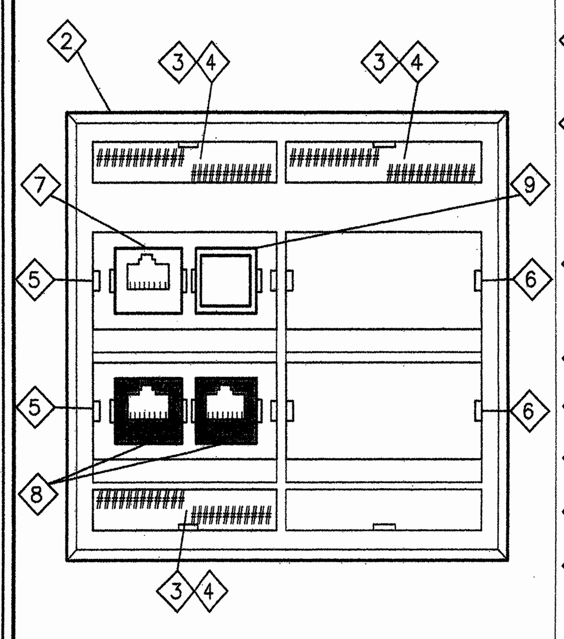
A T568A PINNING — PR2, PR3 PR1 PR4, 12345678

| PIN # | PAIR/COLOR | PAIR |
|---|---|---|
| 5 | T1-W/BL | 1 |
| 4 | R1-BL/W | |
| 3 | T2-W/O | 2 |
| 6 | R2-O/W | |
| 1 | T3-W/GR | 3 |
| 2 | R3-GR/W | |
| 7 | T4-W/BR | 4 |
| 8 | R4-BR/W | |

B SYMBOL — A WBFD1200 IDF# ROOM# #

C DESCRIPTION
WALL BOX FLUSH DOUBLE GANG TERMINATION HARDWARE:
(1) 4-PAIR TELEPHONE STATION CABLE
(1) 8 PIN 8 POSITION TELEPHONE JACK
(2) 4-PAIR NETWORK STATION CABLES
(2) 8 PIN 8 POSITION NETWORK JACKS

D FACEPLATE



E NOTES
1. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE AND FIBER CONNECTIVITY COMPONENTS, CABLE TYPE, AND PART NUMBERS.
2. DOUBLE GANG FACEPLATE WITH FOUR OUTLET IDENTIFICATION LABELS WITH CLEAR COVERS, TWO MATCHING SCREW COVERS AND MOUNTING SCREWS.
3. CLEAR DESIGNATION STRIP HOLDER. OUTLET DESIGNATION SHALL BE PLACED BEHIND HOLDER AND SHALL NOT BE ADHERED TO HOLDER. USE 1.8" X 0.375", WHITE POLYESTER LABEL. LABEL SHALL BE LASER PRINTED. USE HELVETICA 10 AS LABELING FONT.
4. PROVIDE LABELING & FACE PLATE IDENTIFICATION AS SPECIFIED IN TELECOM IDENTIFICATION AND LABELING SPEC SECTION.
5. 2 UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
6. 2 UNIT BLANK MODULE, TO FILL UNUSED OPENINGS.
7. 8 PIN 8 POS JACK FOR TELEPHONE STATION CABLE TERMINATION.
8. 8 PIN 8 POS JACK FOR NETWORK STATION CABLE TERMINATION.
9. BLANK JACK TO FILL UNUSED OPENING.

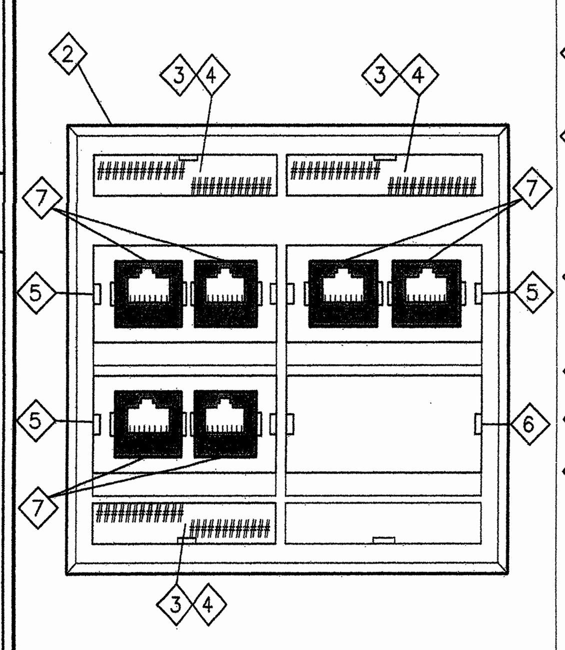
## 10 WALL BOX FLUSH DOUBLE GANG ANGLED FACEPLATE - WBFD0600
(6) NETWORK

A T568A PINNING (same pin/pair table as above)

B SYMBOL — A WBFD0600 IDF# ROOM# #

C DESCRIPTION
WALL BOX FLUSH DOUBLE GANG TERMINATION HARDWARE:
(6) 4-PAIR NETWORK STATION CABLES
(6) 8 PIN 8 POSITION NETWORK JACKS

D FACEPLATE



E NOTES
1. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE AND FIBER CONNECTIVITY COMPONENTS, CABLE TYPE, AND PART NUMBERS.
2. DOUBLE GANG FACEPLATE WITH FOUR OUTLET IDENTIFICATION LABELS WITH CLEAR COVERS, TWO MATCHING SCREW COVERS AND MOUNTING SCREWS.
3. CLEAR DESIGNATION STRIP HOLDER. OUTLET DESIGNATION SHALL BE PLACED BEHIND HOLDER AND SHALL NOT BE ADHERED TO HOLDER. USE 1.8" X 0.375", WHITE POLYESTER LABEL. LABEL SHALL BE LASER PRINTED. USE HELVETICA 10 AS LABELING FONT.
4. PROVIDE LABELING & FACE PLATE IDENTIFICATION AS SPECIFIED IN TELECOM IDENTIFICATION AND LABELING SPEC SECTION.
5. 2 UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
6. 2 UNIT BLANK MODULE, TO FILL UNUSED OPENINGS.
7. 8 PIN 8 POS JACK FOR NETWORK STATION CABLE TERMINATION.

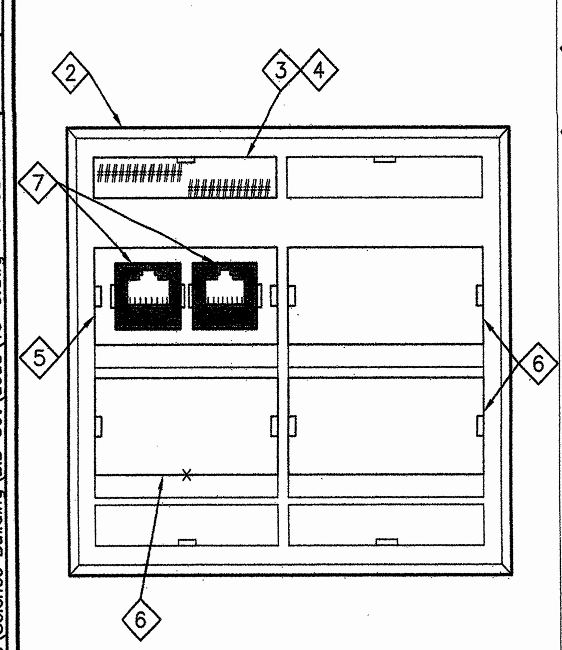
## 9 WALL BOX FLUSH DOUBLE GANG ANGLED FACEPLATE - WBFD0200
(2) NETWORK

A T568A PINNING (same pin/pair table as above)

B SYMBOL — A WBFD0200 IDF# ROOM# #

C DESCRIPTION
WALL BOX FLUSH DOUBLE GANG TERMINATION HARDWARE:
(2) 4-PAIR NETWORK STATION CABLES
(2) 8 PIN 8 POSITION NETWORK JACKS

D FACEPLATE



E NOTES
1. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE COMPONENTS, CABLE TYPE AND PART NUMBERS.
2. DOUBLE GANG FACEPLATE WITH FOUR OUTLET IDENTIFICATION LABELS WITH CLEAR COVERS, TWO MATCHING SCREW COVERS AND MOUNTING SCREWS.
3. CLEAR DESIGNATION STRIP HOLDER. OUTLET DESIGNATION SHALL BE PLACED BEHIND HOLDER AND SHALL NOT BE ADHERED TO HOLDER. USE 1.8" X 0.375", WHITE POLYESTER LABEL. LABEL SHALL BE LASER PRINTED. USE HELVETICA 10 AS LABELING FONT.
4. PROVIDE LABELING & FACE PLATE IDENTIFICATION AS SPECIFIED IN TELECOM IDENTIFICATION AND LABELING SPECIFICATION SECTION.
5. 2 UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
6. 2 UNIT BLANK MODULE, TO FILL UNUSED OPENINGS.
7. 8 PIN 8 POS JACK FOR NETWORK STATION CABLE TERMINATION.

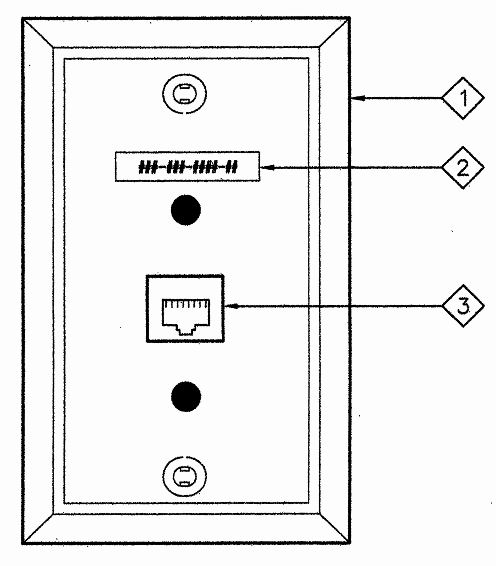
## 8 WALL TELEPHONE FACE PLATE - WALL1000
(1) TELEPHONE

A T568A PINNING (same pin/pair table as above)

B OUTLET SYMBOL — A WALL1000 IDF# ROOM# STA#

C OUTLET DESCRIPTION
WALL TELEPHONE FACE PLATE TERMINATION HARDWARE:
(1) 4 PAIR CATEGORY 6 CABLE
(1) 8 PIN 8 POSITION TELEPHONE JACK

D OUTLET FACEPLATE



E FACEPLATE NOTES
1. WALL PHONE PLATE WITH MOUNTING STUDS
2. PROVIDE LASER PRINTED LABELING AS SPECIFIED IN 16806 & 16812.
3. 8 PIN 8 POS JACK FOR TELEPHONE STATION CABLE TERMINATION.

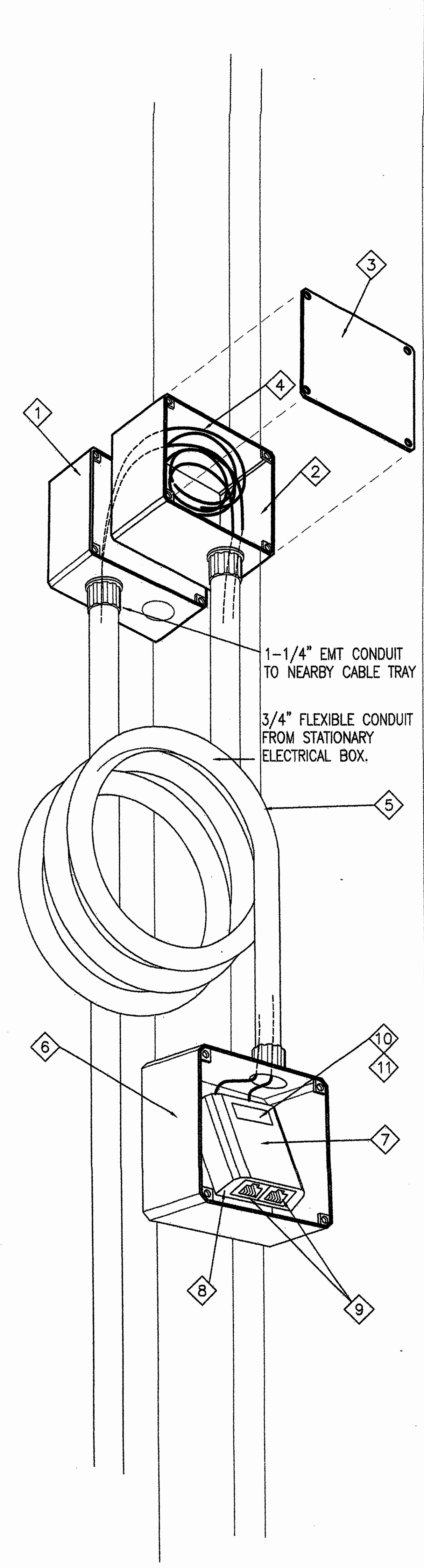
## 7 WIRELESS ACCESS POINT INTERFACE

A T568A PINNING (same pin/pair table as above)

E OUTLET SYMBOL — A WAPS0200 IDF# ROOM# STA#

WIRELESS ACCESS POINT TERMINATION HARDWARE:
(2) 4-PAIR NETWORK STATION CABLES.
(2) 8 PIN 8 POSITION NETWORK JACKS
(2) WIRELESS NETWORK ACCESS POINTS

A MOVABLE INTERFACE BOX




F OUTLET DESCRIPTION
1. 4-11/16" DEEP ELECTRICAL BOX, MOUNTED FLUSH TO WALL, 12" ABOVE THE FACE OF THE FINISHED CEILING TO THE BOTTOM OF THE BOX.
2. 2-1/8" EXTENSION RING WITH 3/4" KNOCKOUT. MOUNT ON BACKBOX TO EXTEND BEYOND WALL SURFACE.
3. COVER FOR EXTENSION RING.
4. PROVIDE 12" LOOP OF CABLE INSIDE OF WALL BOX. LABEL CABLE INSIDE WALL BOX WITHIN SIX INCHES OF POINT OF ENTRY INTO BOX.
5. 3/4" FLEXIBLE METAL CONDUIT, CONNECTED TO WALL MOUNT BOX THROUGH KNOCK-OUT AT EXTENSION RING. PROVIDE 30' COIL, HELD TOGETHER BY CABLE TIES AND TEMPORARILY MOUNTED ADJACENT TO THE WALL BOX IN SECOND 4-11/16" DEEP ELECTRICAL BOX WITH COVER.
6. MOVABLE 4-11/16" DEEP ELECTRICAL BOX WITH COVER FOR HOLDING MULTIMEDIA BOX. THIS BOX WILL BE RELOCATED BY OTHERS FOR FUTURE CONNECTION TO WIRELESS ACCESS POINT.
7. SINGLE INSERT MULTIMEDIA BOX.
8. 2 UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING
9. 8 PIN 8 POS, T568A CATEGORY 6 JACK. FOR DATA STATION CABLE TERMINATION.
10. WIREMOLD LABELING INSERT, ACEP. OUTLET DESIGNATION SHALL BE PLACED BEHIND CLEAR PLASTIC PROTECTOR AND SHALL NOT BE ADHERED TO SURFACE. USE PANDUIT EPFL-1 DESIGNATION STRIP LABEL. TYPICAL FOR ALL LABELING.
11. LABELING PER SPECIFICATIONS AND THE STATION CABLE SCHEDULES. LABELING SHALL BE LASER PRINTED. USE HELVETICA 10 POINT FONT.

G FACEPLATE NOTES

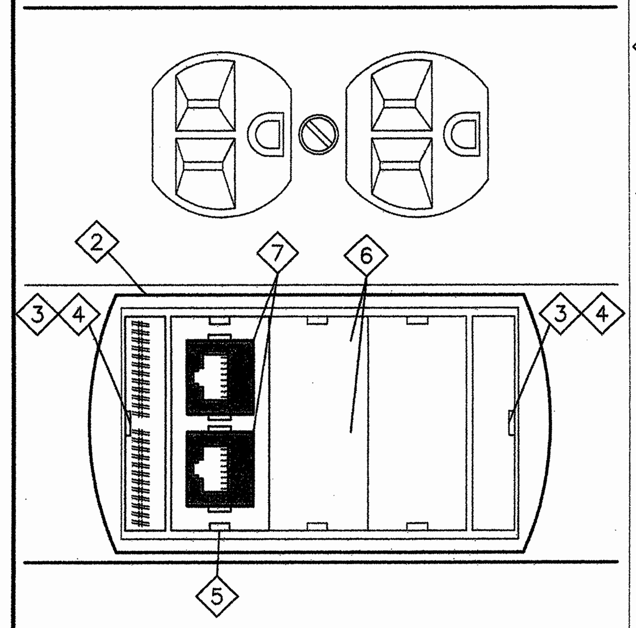
## 6 RACEWAY ALUMINUM DUAL CHANNEL - RALD0200
(0) TELEPHONE, (2) NETWORK, (0) MM OPTICAL FIBER, (0) BROADBAND

A T568A PINNING (same pin/pair table as above)

B SYMBOL — A RALD0200 IDF# ROOM# #

C DESCRIPTION
RACEWAY ALUMINUM DUAL CHANNEL TERMINATION HARDWARE:
(2) 4-PAIR NETWORK STATION CABLES
(2) 8 PIN 8 POSITION NETWORK JACKS

D FACEPLATE



E NOTES
1. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE COMPONENTS, CABLE TYPE, AND PART NUMBERS.
2. LOW PROFILE BEZEL IN ALUMINUM RACEWAY COVER WITH TWO OUTLET IDENTIFICATION LABELS WITH CLEAR COVERS.
3. CLEAR DESIGNATION STRIP HOLDER. OUTLET DESIGNATION SHALL BE PLACED BEHIND HOLDER AND SHALL NOT BE ADHERED TO HOLDER. USE 1.8" X 0.375", WHITE POLYESTER LABEL. LABEL SHALL BE LASER PRINTED. USE HELVETICA 10 AS LABELING FONT.
4. PROVIDE LABELING & FACE PLATE IDENTIFICATION AS SPECIFIED IN TELECOM IDENTIFICATION AND LABELING SPEC SECTION.
5. 2 UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
6. 2 UNIT BLANK MODULE, TO FILL UNUSED OPENINGS.
7. JACK FOR NETWORK STATION CABLE TERMINATION.

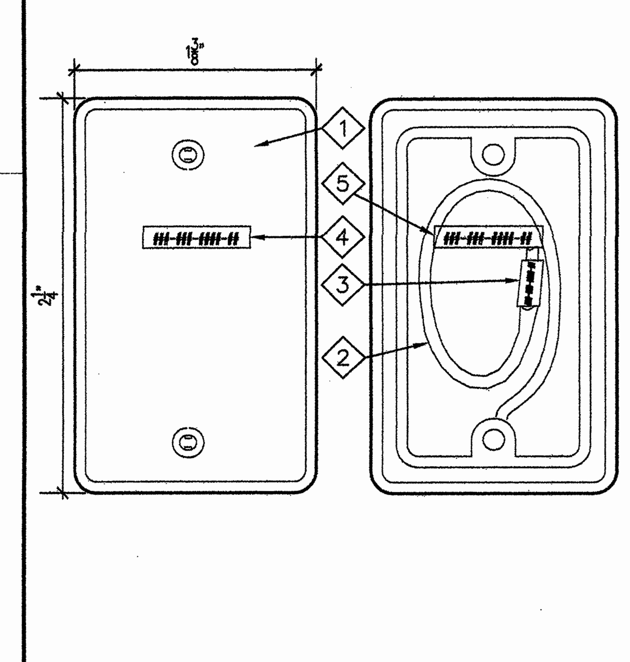
## 5 PAY TELEPHONE FACE PLATE - PAY1000

A T568A PINNING (same pin/pair table as above)

B OUTLET SYMBOL — A PAY1000 IDF# ROOM# #

C OUTLET DESCRIPTION
PAY TELEPHONE FACE PLATE TERMINATION HARDWARE:
(1) 4-PAIR TELEPHONE STATION CABLE

D OUTLET FACEPLATE



E FACEPLATE NOTES
1. STAINLESS STEEL COVER PLATE.
2. COIL 12' OF 4 PAIR CABLE IN ENCLOSURE.
3. LABEL CABLE WITHIN 6" OF TERMINATED END.
4. PANDUIT, EPFL-1, 1.80" x 0.375", WHITE, POLYESTER LABEL. USE HELVETICA 10, AS THE LABELING FONT.
5. PANDUIT, EPFL-1, 1.80" x 0.375", WHITE, POLYESTER LABEL. USE HELVETICA 10, AS THE LABELING FONT. AFFIX TO REAR OF ELECTRICAL BOX.

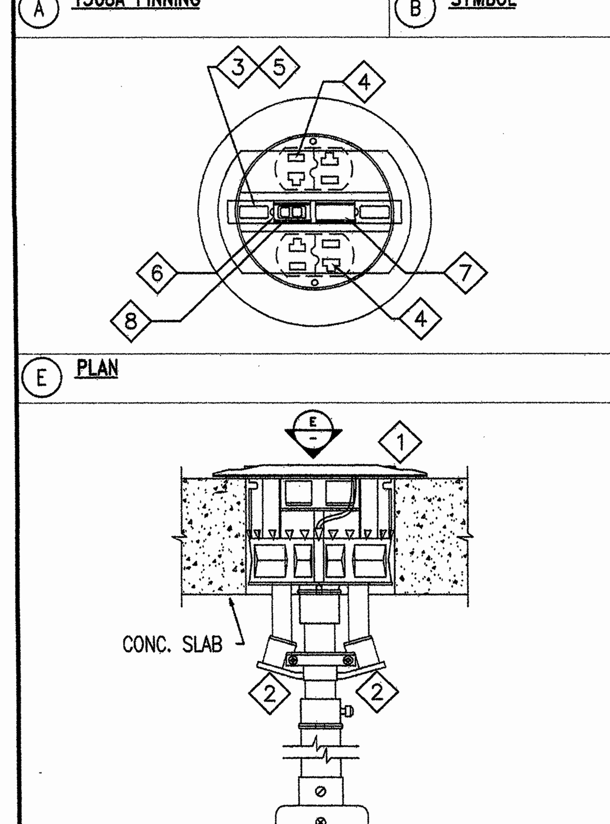
## 4 FLOOR POKE-THRU FLUSH DOUBLE - FPFD0200
(2) NETWORK

A T568A PINNING (same pin/pair table as above)

B SYMBOL — A FPFD0200 IDF# ROOM# #

C DESCRIPTION
FLOOR POKE-THRU FLUSH DOUBLE TERMINATION HARDWARE:
(2) 4-PAIR NETWORK STATION CABLES
(2) 8 PIN 8 POSITION NETWORK JACKS

E PLAN / D SECTION




F NOTES
1. WIREMOLD RC4 SERIES FLOOR POKE-THRU, FLUSH, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE AND CONNECTIVITY COMPONENTS, CABLE TYPE, AND PART NUMBERS.
2. 3/4" CONDUIT CONNECTION FOR DATA CABLES.
3. LABEL LOCATIONS. PROVIDE LABELING & FACE PLATE IDENTIFICATION AS SPECIFIED IN TELECOM IDENTIFICATION AND LABELING SPEC SECTION.
4. ELECTRICAL RECEPTACLE.
5. CLEAR DESIGNATION STRIP HOLDER. OUTLET DESIGNATION SHALL BE PLACED BEHIND HOLDER AND SHALL NOT BE ADHERED TO HOLDER. USE 1.8" X 0.375", WHITE POLYESTER LABEL. LABEL SHALL BE LASER PRINTED. USE HELVETICA 10 AS LABELING FONT.
6. 2-UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
7. 2-UNIT BLANK MODULE, TO FILL UNUSED OPENING.
8. 8 PIN 8 POSITION JACK FOR NETWORK STATION CABLE TERMINATION.

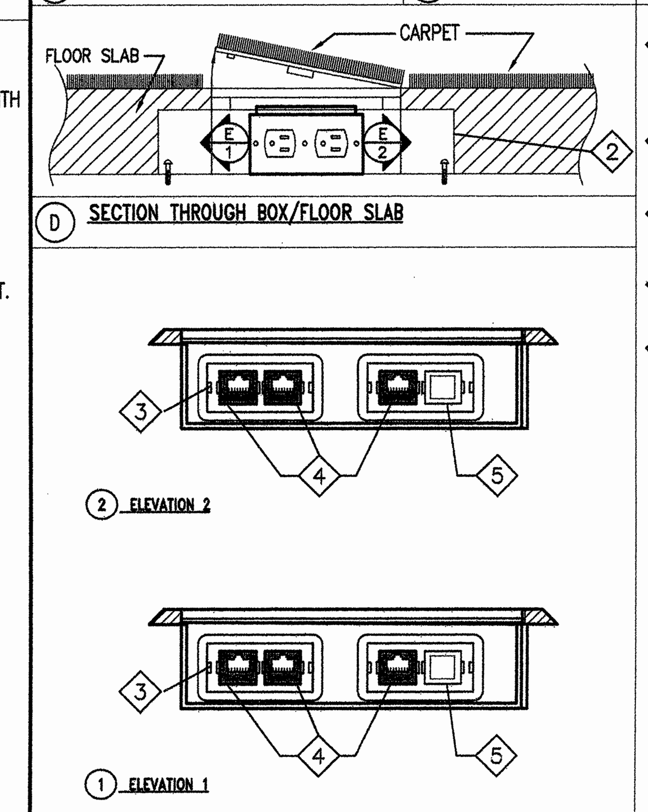
## 3 FLOOR BOX SHALLOW DUPLEX - FBSD0600
(6) NETWORK

A T568A PINNING (same pin/pair table as above)

B SYMBOL — A FBSD0600 IDF# ROOM# STA#

C DESCRIPTION
FLOOR BOX SHALLOW DUPLEX TERMINATION HARDWARE:
(6) 4-PAIR NETWORK STATION CABLES
(6) 8 PIN 8 POSITION NETWORK JACKS

D SECTION THROUGH BOX/FLOOR SLAB — E ELEVATIONS




F NOTES
1. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE AND CONNECTIVITY COMPONENTS, CABLE TYPE AND PART NUMBERS.
2. RECESSED FLOOR BOX HOUSING ELECTRICAL AND COMMUNICATION DEVICES.
3. 2-UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
4. 8 PIN 8 POS JACK FOR NETWORK STATION CABLE TERMINATION.
5. BLANK COVER TO FILL EMPTY JACK OPENING. FINISH TO MATCH THE INSERT.

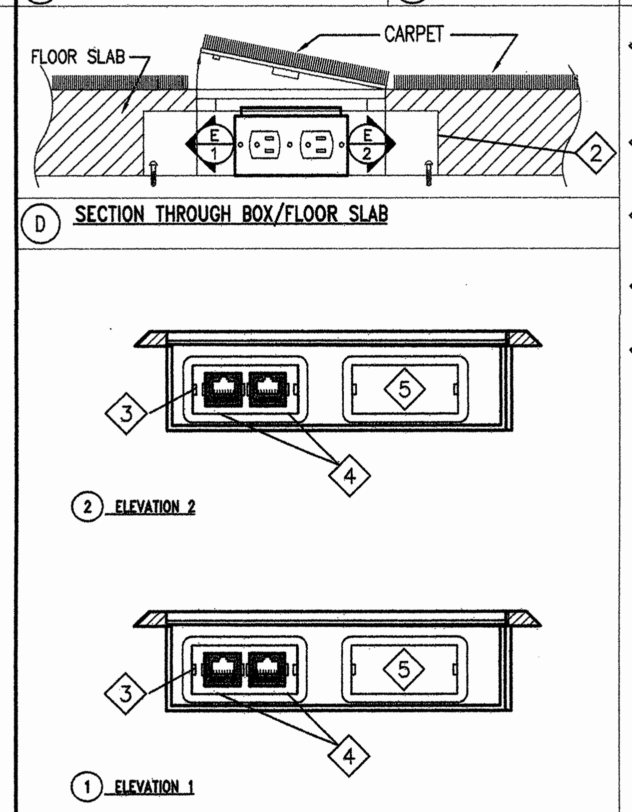
## 2 FLOOR BOX SHALLOW DUPLEX - FBSD0400
(4) NETWORK

A T568A PINNING (same pin/pair table as above)

B SYMBOL — A FBSD0400 IDF# ROOM# STA#

C DESCRIPTION
FLOOR BOX SHALLOW DUPLEX TERMINATION HARDWARE:
(4) 4-PAIR NETWORK STATION CABLES
(4) 8 PIN 8 POSITION NETWORK JACKS

D SECTION THROUGH BOX/FLOOR SLAB — E ELEVATIONS




F NOTES
1. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE AND CONNECTIVITY COMPONENTS, CABLE TYPE AND PART NUMBERS.
2. RECESSED FLOOR BOX HOUSING ELECTRICAL AND COMMUNICATION DEVICES.
3. 2-UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
4. 8 PIN 8 POS JACK FOR NETWORK STATION CABLE TERMINATION.
5. 2 UNIT BLANK MODULE, TO FILL UNUSED OPENINGS.

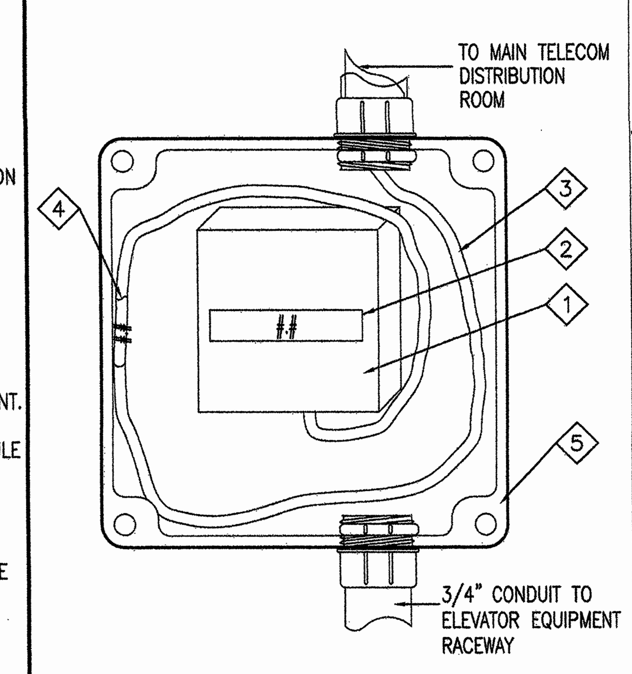
## 1 ELEVATOR TELEPHONE INTERFACE - ELEV1000A

A T568A PINNING (same pin/pair table as above)

A OUTLET SYMBOL — A ELEV1000 IDF# ROOM# #

B OUTLET DESCRIPTION
ELEVATOR TELEPHONE INTERFACE TERMINATION HARDWARE:
(1) 4-PAIR CATEGORY 6 NETWORK STATION CABLE.
(1) 8 PIN, 8 POSITION TERMINAL BLOCK.
(1) TELEPHONE

C OUTLET FACEPLATE




D FACEPLATE NOTES
1. 8 POSITION, SCREW TERMINAL BLOCK.
2. PANDUIT, PLL-5-Y2-10 , 0.80 X 0.25 INCH, WHITE, POLYESTER LABEL. LABELS COME 312 PER SHEET ARRAYED IN 8 COLUMNS FOR LASER PRINTERS. USE HELVETICA 9 AS THE LABELING FONT.
3. 4 PAIR STATION CABLE TERMINATED ON 8 POSITION TERMINAL BLOCK FOR ELEVATOR PHONE INTERFACE.
4. LABEL CABLE WITHIN 6 INCHES OF SCREW TERMINAL BLOCK.
5. 4S DEEP ELECTRICAL BOX, PROVIDE WITH COVER.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ph: fx:


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Contra Costa Community College District

owner

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file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

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DETAILS
TELECOM OUTLETS

LMC SCIENCE 313-023-112.01-0-00.00
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drawing of

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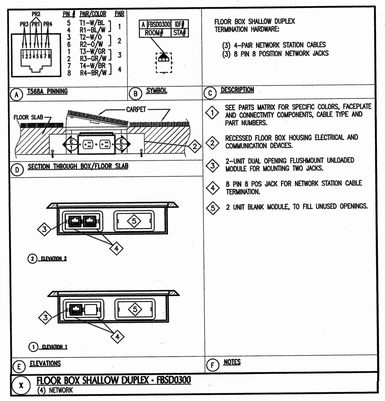


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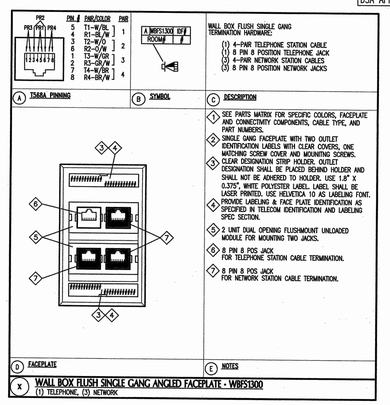


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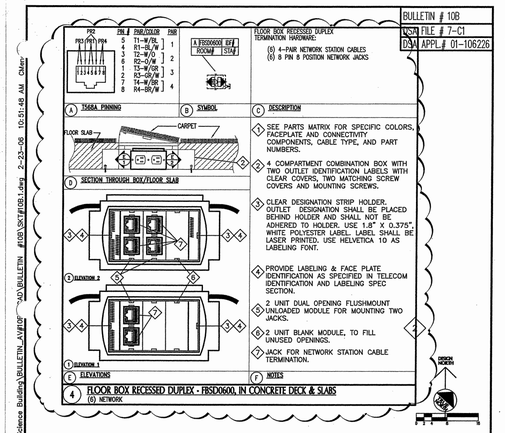


T6.1
OUTLET AND
FACEPLATE DETAILS

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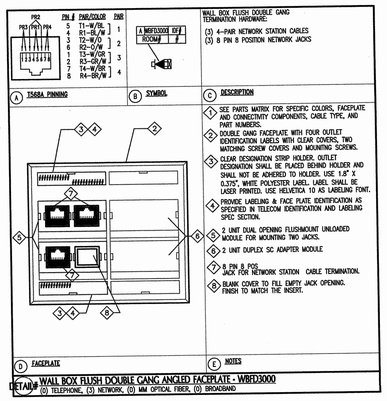


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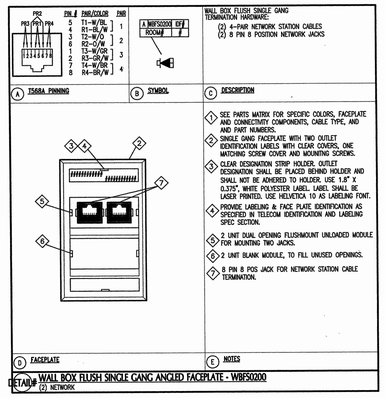


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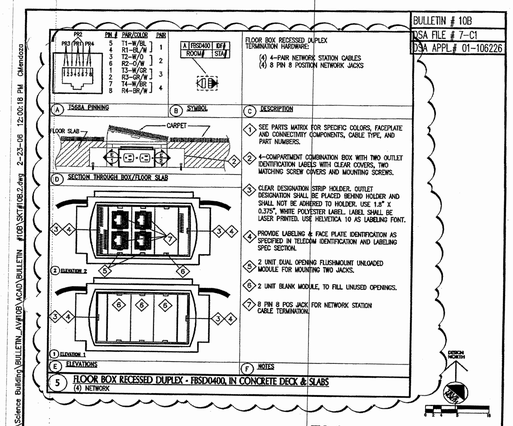


T6.1
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agency

SCIENCE BUILDING
LOS MEDANOS COLLEGE

Contra Costa Community College District

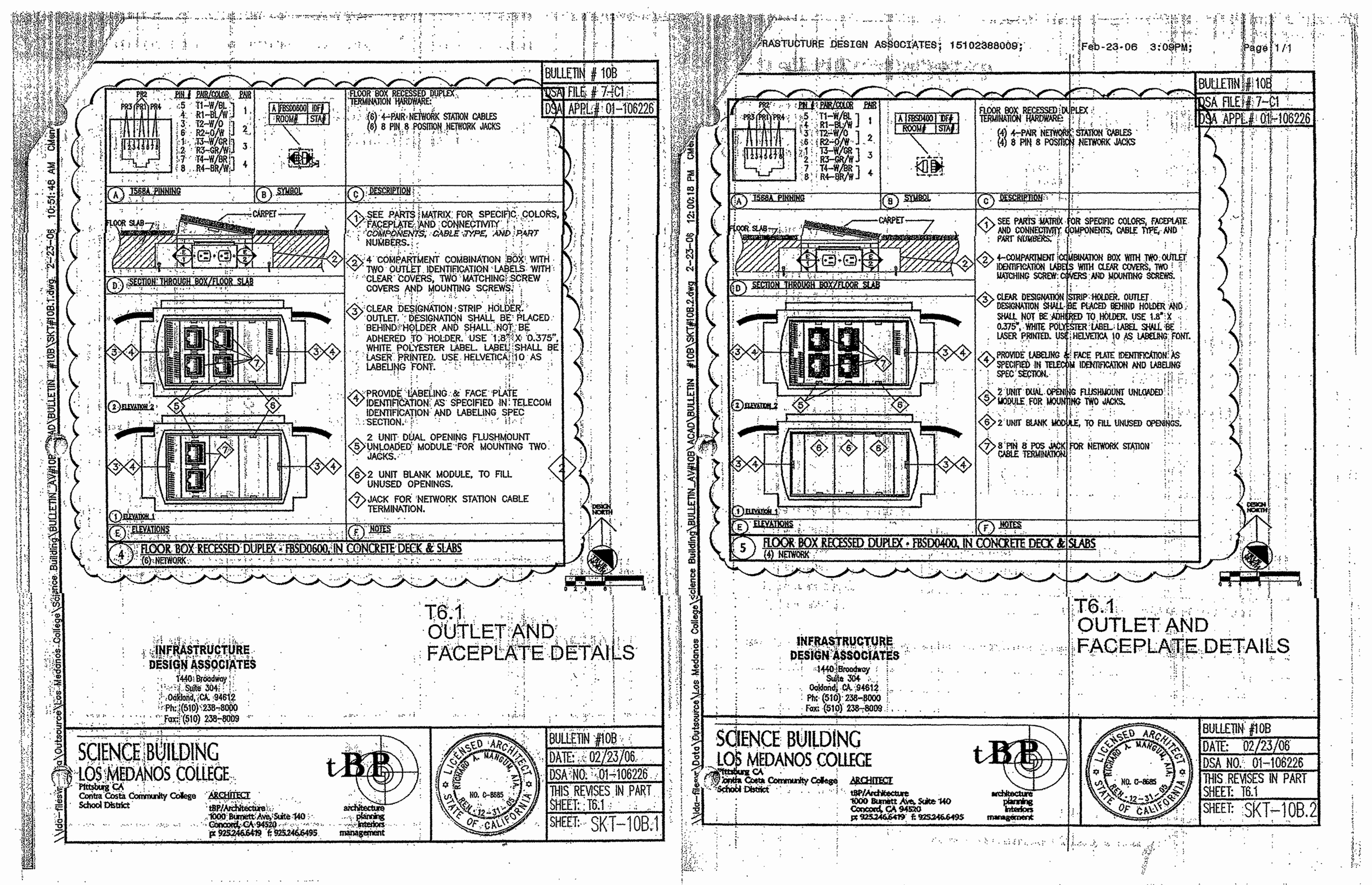
owner

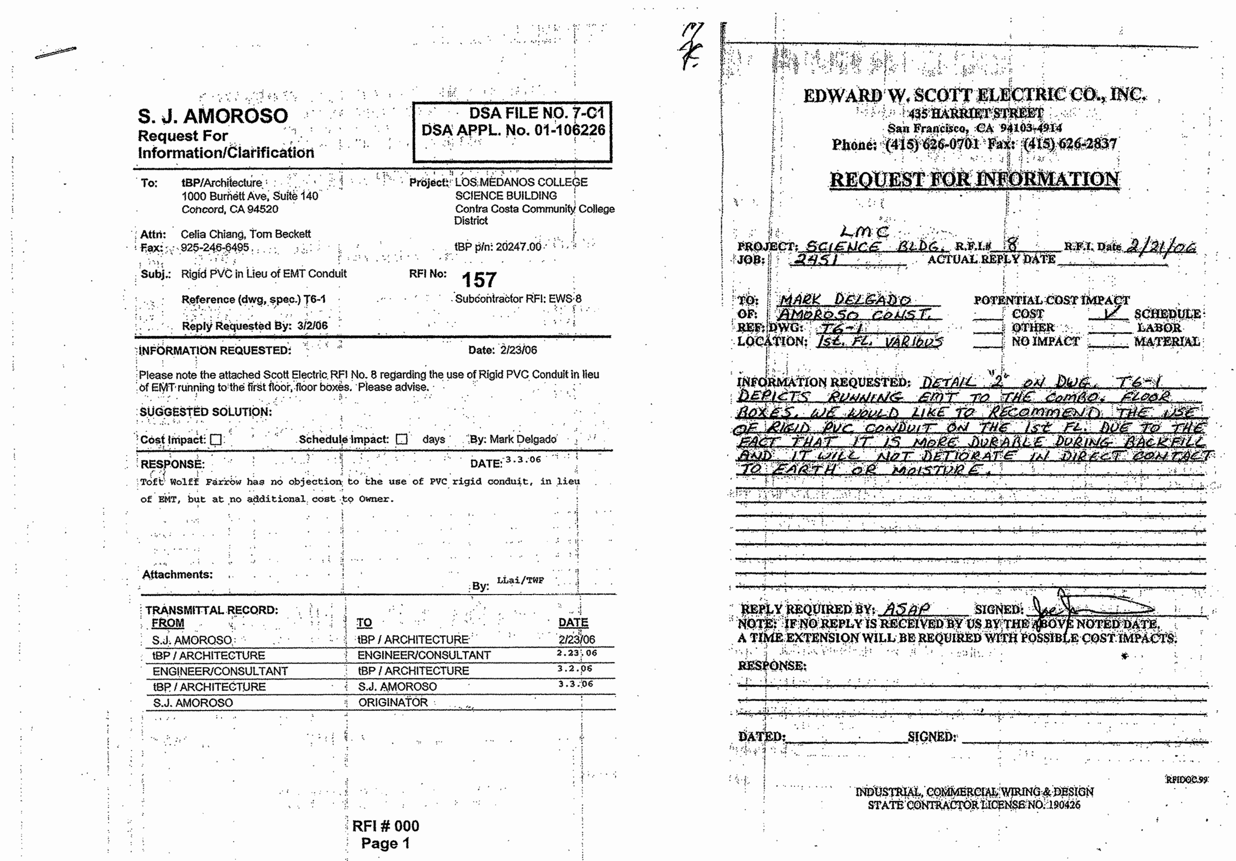
tBP project number : 20241.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

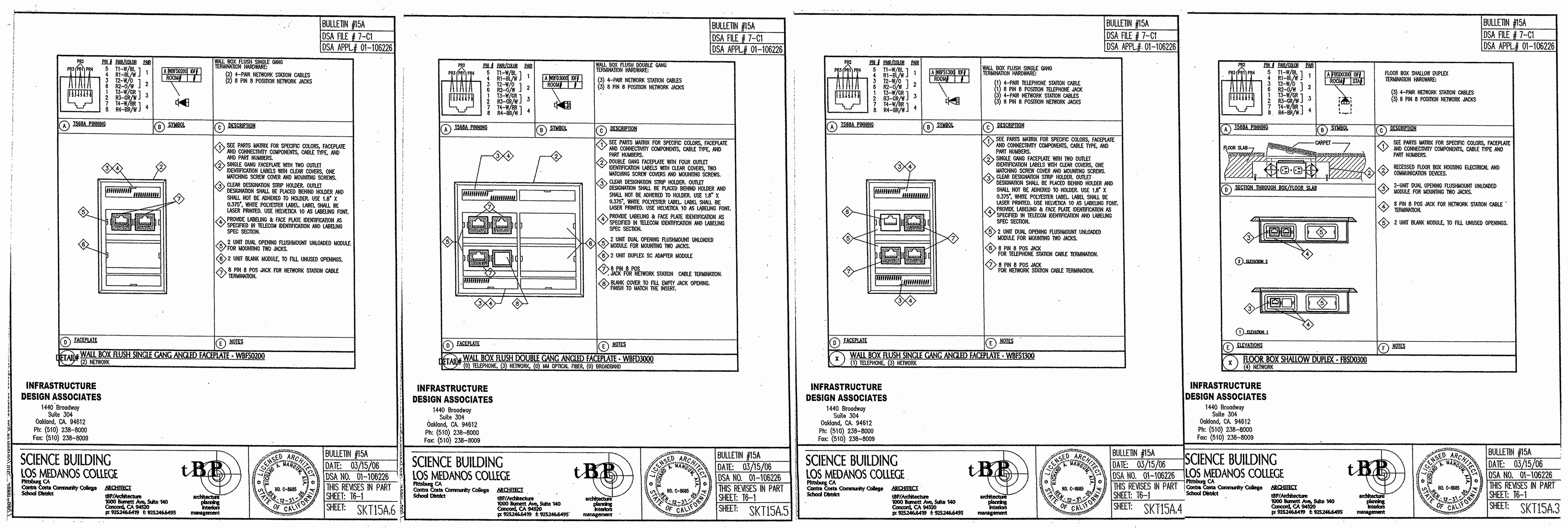
| Rev: | date: | description: |
|---|---|---|
| | | |

drawing title:
BULLETIN 10B & 15A DRAWINGS

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
ATTACHMENT TO T6-1





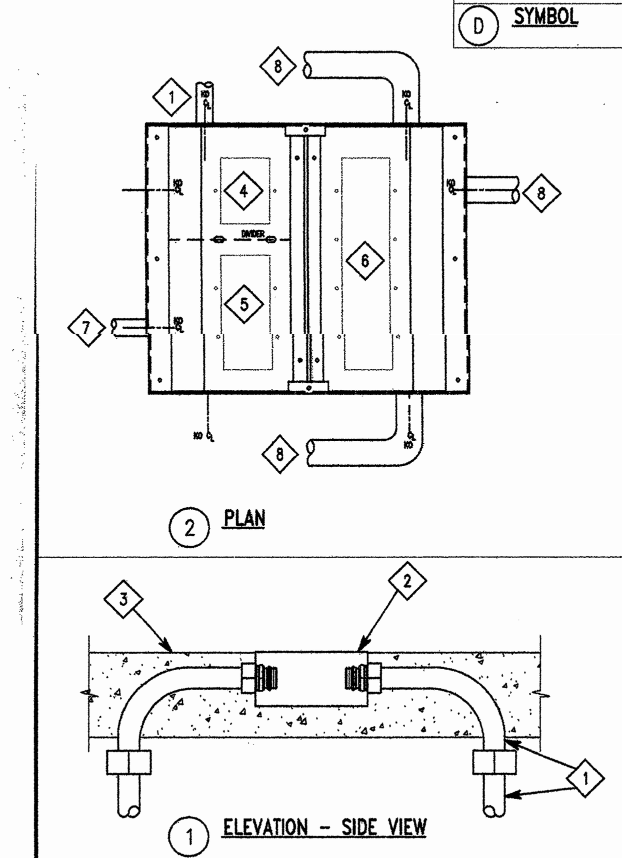



| PART DESCRIPTION | PASS & SEYMOUR PART # WIREMOLD OR EQUAL (NO KNOWN EQUAL) | KRONE PART # |
|---|---|---|
| SINGLE GANG ANGLED DUPLEX FACEPLATE | AC-SAP-WH | |
| DOUBLE GANG ANGLED QUADPLEX FACEPLATE | AC-DAP-WH | |
| GFI RECEPTACLE COVER, BRASS | 828GFITC | |
| ACTIVATE BEZEL | CM-MAB | |
| 2-UNIT SINGLE OPENING MODULE | 2A-U1KEY-WH | |
| 2-UNIT DUAL OPENING MODULE | 2A-U2KEY-WH | |
| 2-UNIT SINGLE OPENING MODULE | 2A-U1ATT-WH | |
| 2-UNIT DUAL OPENING MODULE | 2A-U2ATT-WH | |
| 2-UNIT BLANK MODULE | 2A-BL-WH | |
| 8 PIN, 8 POS. T568A CAT6 NETWORK JACK, BLUE | | 6645-1-800-06 |
| 8 PIN, 8 POS. T568A CAT6 TEL JACK, WHITE | | 6645-1-800-01 |
| 4-PAIR NETWORK STATION CABLE, CAT6 PLENUM, BLUE | | TN6SP-BL02 |
| 4-PAIR TELEPHONE STATION CABLE, CAT6 PLENUM, WHITE | | TN6SP-WTL02 |

(3) OUTLET PARTS SCHEDULE

CAST-IN-PLACE COMBINATION POWER, TELECOM, & AV FLOOR BOX, 12½" X 10½" X 4", FSR FL 500P, WITH A 1-GANG POSITION FOR TELECOM DEVICES, A 2-GANG POSITION FOR POWER AND A 4-GANG POSITION FOR AV. PROVIDE A 1¼" RIGID, LONG-SWEEP ELBOW WITH A 1¼" RIGID-TO-EMT COUPLER FOR TELECOM

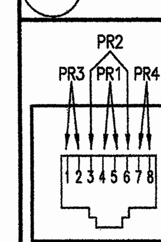
(D) SYMBOL — (B) DESCRIPTION




1. 1¼" EMT FOR TELECOM WIRING. RIGID PVC PER RFI 157
2. RECESSED FLOOR BOX.
3. CONCRETE SLAB.
4. 1-GANG MOUNTING POSITION FOR TELECOM DEVICES.
5. 2-GANG MOUNTING POSITION FOR QUAD POWER RECEPTACLE.
6. 4-GANG MOUNTING POSITION FOR AV DEVICES.
7. 1" EMT FOR ELECTRICAL POWER VOLTAGE WIRING.
8. 1¼" EMT FOR A/V WIRING. ROUTE TO ABOVE ACCESSIBLE CEILING.

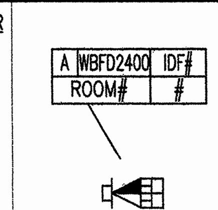
(C) DRAWING VIEWS — (A) NOTES

## (2) RECESSED FLOOR BOX DATA & AV OUTLET BOX




| PIN # | PAIR/COLOR | PAIR |
|---|---|---|
| 5 | T1-W/BL | 1 |
| 4 | R1-BL/W | |
| 3 | T2-W/O | 2 |
| 6 | R2-O/W | |
| 1 | T3-W/GR | 3 |
| 2 | R3-GR/W | |
| 7 | T4-W/BR | 4 |
| 8 | R4-BR/W | |

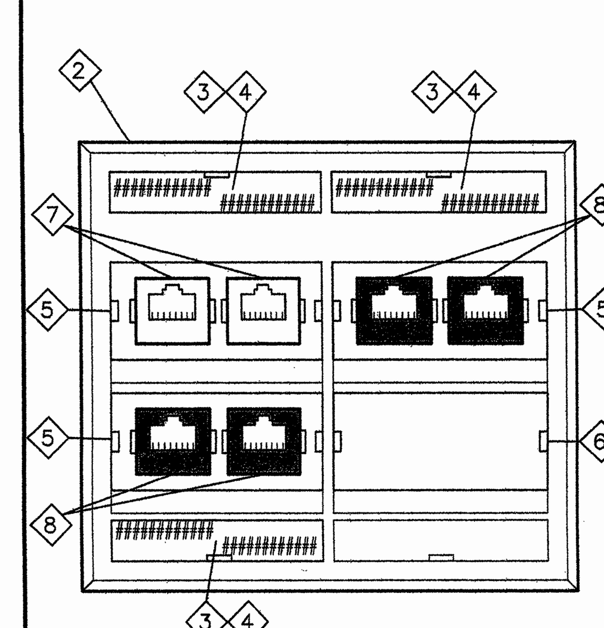
(A) T568A PINNING




(B) SYMBOL

WALL BOX FLUSH DOUBLE GANG TERMINATION HARDWARE:
- (2) 4-PAIR TELEPHONE STATION CABLE
- (2) 8 PIN 8 POSITION TELEPHONE JACK
- (4) 4-PAIR NETWORK STATION CABLES
- (4) 8 PIN 8 POSITION NETWORK JACKS

(C) DESCRIPTION



1. SEE PARTS MATRIX FOR SPECIFIC COLORS, FACEPLATE AND FIBER CONNECTIVITY COMPONENTS, CABLE TYPE, AND PART NUMBERS.
2. DOUBLE GANG FACEPLATE WITH FOUR OUTLET IDENTIFICATION LABELS WITH CLEAR COVERS, TWO MATCHING SCREW COVERS AND MOUNITNG SCREWS.
3. CLEAR DESIGNATION STRIP HOLDER. OUTLET DESIGNATION SHALL BE PLACED BEHIND HOLDER AND SHALL NOT BE ADHERED TO HOLDER. USE 1.8" X 0.375", WHITE POLYESTER LABEL. LABEL SHALL BE LASER PRINTED. USE HELVETICA 10 AS LABELING FONT.
4. PROVIDE LABELING & FACE PLATE IDENTIFICATION AS SPECIFIED IN TELECOM IDENTIFICATION AND LABELING SPEC SECTION.
5. 2 UNIT DUAL OPENING FLUSHMOUNT UNLOADED MODULE FOR MOUNTING TWO JACKS.
6. 2 UNIT BLANK MODULE, TO FILL UNUSED OPENINGS.
7. 8 PIN 8 POS JACK FOR TELEPHONE STATION CABLE TERMINATION.
8. 8 PIN 8 POS JACK FOR NETWORK STATION CABLE TERMINATION.

(D) FACEPLATE — (E) NOTES

## (1) WALL BOX FLUSH DOUBLE GANG ANGLED FACEPLATE - WBFD2400

(2) TELEPHONE, (4) NETWORK

tBP architecture planning interiors management

tBP/Architecture
1000 Burnett Avenue, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA 94612

EXPIRES 12/31/06
Regis. No. 06606

consultant

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

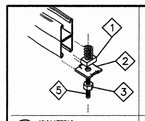
NTS

drawing title: building no.:
DETAILS
TELECOM OUTLETS

LMC SCIENCE 313-023-112.01-0-00.00
drawing no.: T6-1
drawing of

Los Medanos College\Science Building\BID Set\acad\T6-1.dwg 11-09-04 01:23:33 PM cmendoza

## 12 "U" FRAMING CHANNEL SINGLE TRAPEZE ASSEMBLY

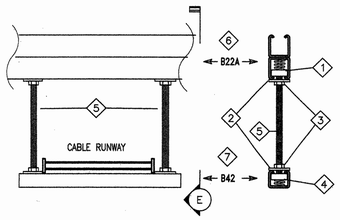


A ISOMETRIC

B PLAN SYMBOL

C PRODUCT DESCRIPTION

SINGLE TRAPEZE ASSEMBLY FROM "U" CHANNEL FOR HANGING CABLE RUNWAY OR CABLE TRAY.



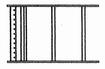

D ELEVATION

E SECTION

D NOTES

1. SPRING NUT 5/8"-11, 200 SERIES. B-LINE 5/8"-11 N255.
2. NO TWIST SQUARE WASHER 11/16" HOLE. B-LINE B202-1D.
3. HEX NUT 5/8"- 11. B-LINE 5/8" HN.
4. SPRING NUT 5/8"-11, 500 SERIES. B-LINE 5/8"-11 N555.
5. 5/8" THREADED ROD.
6. METAL FRAMING CHANNEL BACK-TO-BACK STYLE. 1-5/8" X 3-1/4", 12 GAUGE. B-LINE B22A.
7. METAL FRAMING CHANNEL 1-5/8" X 1", 12 GAUGE. B-LINE B42.

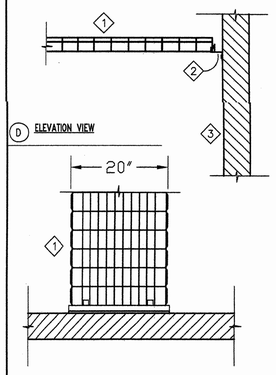
## 11 Z-BRACKET @ WALL



A PLAN SYMBOL

B PRODUCT DESCRIPTION

SHEET METAL FITTING FOR PROVIDING CABLE RUNWAY DROPOUT.



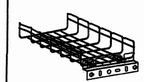

D ELEVATION VIEW

E PLAN VIEW

F NOTES

1. STEEL WIRE CABLE TRAY. WIRE CABLE TRAY SHALL BE CONSTRUCTED OF WELDED HIGH STRENGTH 8 GAUGE STEEL WIRE COATED AFTER FABRICATION WITH ELECTRO-PLATED ZINC GALVANIZING FOR USE IN INDOOR NON CORROSIVE ENVIRONMENTS.
2. Z-BRACKET - FLEXTRAY.
3. EXISTING WALL CONSTRUCTION. VERIFY IN FIELD.

## 10 CABLE RUNWAY

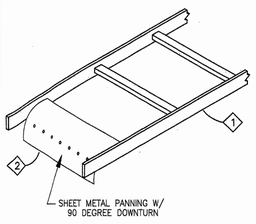


A ISOMETRIC

B PLAN SYMBOL

C PRODUCT DESCRIPTION

ALLOWS FOR VERTICAL OR HORIZONTAL ATTACHMENT OF FLEXTRAY TO WALLS. THE Z-BRACKET CAN ALSO BE USED FOR WALL TERMINATIONS, RACK AND FLOOR ATTACHMENTS.

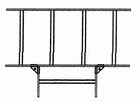



C ISOMETRIC VIEW

D NOTES

1. CABLE RUNWAY: 15" WIDE X 2" HIGH.
2. PANNING DOWNTURN DROPOUT.

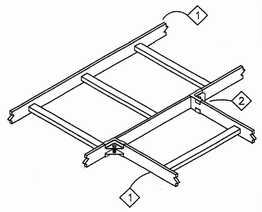
## 9 CABLE RUNWAY END ENCLOSURE



A PLAN SYMBOL

B PRODUCT DESCRIPTION

"TEE: KIT FOR SPLICING TOGETHER PERPENDICULAR SECTIONS.

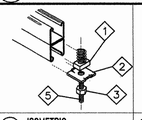


C ISOMETRIC VIEW

D NOTES

1. CABLE RUNWAY 15" WIDE X 2" HIGH.
2. RUNWAY STRINGER "TEE" KIT.

## 8 CABLE RUNWAY HORIZONTAL "TEE" ASSEMBLY

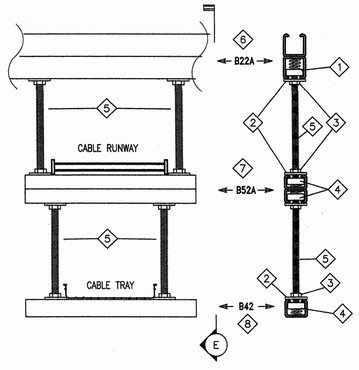


A ISOMETRIC

B PLAN SYMBOL

C PRODUCT DESCRIPTION

DOUBLE TRAPEZE ASSEMBLY FROM "U" CHANNEL FOR HANGING CABLE TRAY AND CABLE RUNWAY.



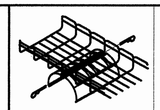

D ELEVATION & SECTION

E SECTION

D NOTES

1. SPRING NUT 5/8"-11, 200 SERIES. B-LINE 5/8"-11 N255.
2. NO TWIST SQUARE WASHER 11/16" HOLE. B-LINE B202-1D.
3. HEX NUT 5/8"- 11. B-LINE 5/8" HN.
4. SPRING NUT 5/8"-11, 500 SERIES. B-LINE 5/8"-11 N555.
5. 5/8" THREADED ROD.
6. METAL FRAMING CHANNEL BACK-TO-BACK STYLE. 1-5/8" X 3-1/4", 12 GAUGE. B-LINE B22A.
7. METAL FRAMING CHANNEL BACK-TO-BACK STYLE. 1-5/8" X 1-5/8", 12 GAUGE. B-LINE B52A.
8. METAL FRAMING CHANNEL 1-5/8" X 1", 12 GAUGE. B-LINE B42.

## 7 "U" FRAMING CHANNEL DOUBLE TRAPEZE ASSEMBLY



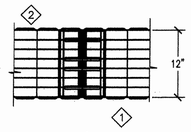
A ISOMETRIC VIEW

B PLAN SYMBOL CTF2_DROPOUT

C DESCRIPTION

DROP-OUT FITTING MAINTAINS BEND RADIUS OF WIRE. TWO COTTER PINS INCLUDED.

D ELEVATION VIEW

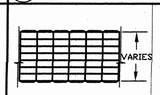



E PLAN VIEW

F NOTES

1. NOTE: CABLING CONTRACTOR SHALL NOT CUT EDGE MEMBERS OF STEEL WIRE CABLE TRAY
2. CUT OUT 2X2 GRID BETWEEN EQUIPMENT RACKS AT VERTICAL MOUNTED CABLE MANAGERS TO ALLOW CABLE PASSAGE

## 6 DROP OUT FITTINGS

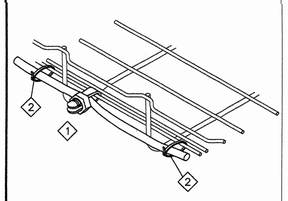



A PLAN VIEW

B PLAN SYMBOL

C DESCRIPTION

ATTACHMENT AND SUPPORT OF GROUND CABLE.

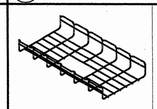


D CABLE TRAY PERSPECTIVE

E NOTES

1. SPLIT GROUND BOLT CONNECTED TO BOTTOM SIDE RAIL OF CABLE TRAY. SPLAY CABLE COVER AT GROUND BOLT TO EXPOSE CABLE WIRE MESH.
2. CABLE TIES AT APPROXIMATELY 12" O.C.

## 5 GROUND BOLT DETAIL

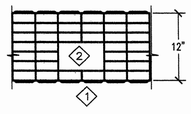


A ISOMETRIC VIEW

B PLAN SYMBOL

C DESCRIPTION

CUT-OUTS TO PERMIT CABLE PASSAGE OVER EQUIPMENT RACKS.

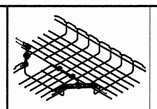



D PLAN VIEW

E NOTES

1. NOTE: CABLING CONTRACTOR SHALL NOT CUT EDGE MEMBERS OF STEEL WIRE CABLE TRAY
2. CUT OUT 2X2 GRID BETWEEN EQUIPMENT RACKS AT VERTICAL MOUNTED CABLE MANAGERS TO ALLOW CABLE PASSAGE

## 4 12" CUT-OUT OVER RACKS

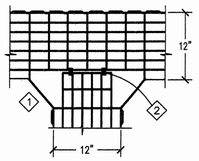


A ISOMETRIC VIEW

B PLAN SYMBOL

C DESCRIPTION

JOINING METHOD AT TEE INTERSECTION.

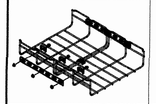



D PLAN VIEW

E NOTES

1. REINFORCE INSIDE CORNERS WITH SPLICE BARS WITH THE SAFETY EDGE, (3) SPLICE WASHERS AND (3) 1/4 INCH CARRIAGE BOLT WITH LOCK NUT IN EACH CORNER.
2. 12 X 2 INCH WIRE CABLE SHORT RADIUS TEE WITH (2) BOTTOM WASHERS, (2) TOP WASHERS AND (2) 1/4" CARRIAGE BOLTS WITH LOCK NUTS AT THE PERPENDICULAR JOINT BETWEEN SECTIONS.

## 3 12" TEE SECTION

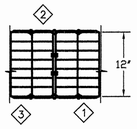


A ISOMETRIC VIEW

B PLAN SYMBOL

C DESCRIPTION

END TO END SPLICE OF STRAIGHT SECTIONS

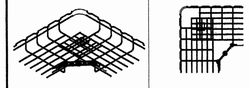



D PLAN VIEW

E NOTES

1. WIRE CABLE TRAY SHALL BE CONSTRUCTED OF WELDED HIGH STRENGTH 8 GAUGE STEEL WIRE COATED AFTER FABRICATION WITH ELECTRO-PLATED ZINC GALVANIZING FOR USE IN INDOOR NON CORROSIVE ENVIRONMENTS.
2. REINFORCE SIDES WITH SPLICE BARS WITH THE SAFETY EDGE, (3) SPLICE WASHERS AND (3) 1/4 INCH CARRIAGE BOLT WITH LOCK NUT IN EACH SIDE.
3. BOND EACH CONTINUOUS SECTION WIRE CABLE TRAY TO THE GROUND BAR IN THE ROOM WITH A TERMINAL GROUND SUPPORT. (SEE GROUND BAR DETAIL). ROUTE AN INSULATED #6 AWG GROUND CONDUCTOR TO EACH TERMINAL BRACKET. SUPPORT THE GROUND CABLE ON THE OUTER EDGE OF THE WIRE CABLE TRAY WITH CABLE SUPPORT CLIPS @ 12" O.C..

## 2 12" TO 12" SPLICE

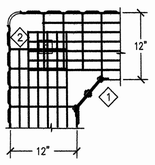


A ISOMETRIC VIEW

B PLAN SYMBOL

C DESCRIPTION

CUT-OUT OVER EQUIPMENT RACKS




D PLAN VIEW

E NOTES

1. REINFORCE INSIDE CORNERS WITH SPLICE BARS WITH THE SAFETY EDGE, (3) SPLICE WASHERS AND (3) 1/4 INCH CARRIAGE BOLT WITH LOCK NUT IN EACH CORNER.
2. 12 X 2 INCH WIRE CABLE SHORT RADIUS BEND WITH CONTINUOUS OUTER EDGE, (2) SUPPORT WASHERS AND (1) 1/4 INCH CARRIAGE BOLTS WITH LOCK NUT

## 1 12" X 12" 90 DEGREE ANGLE


tBP
architecture
planning
interiors
management

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LICENSED ARCHITECT
REGISTERED PROFESSIONAL ARCHITECT
STATE OF CALIFORNIA

INFRASTRUCTURE DESIGN ASSOCIATES
1440 Broadway
Suite 304
Oakland, CA 94612

EXPIRES 12/31/06
Regis. No. 06606
SIGNATURE

consultant

name
address
city, state, zip
ph: fax:


EXTINCTION STAMP
ONLY OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP. - 01/05/04
DATE 11-12-05

# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

drawing title: DETAILS STEEL WIRE CABLE TRAY

building no: LMC SCIENCE 313-023-112.01-0-00.00

drawing no: T6-2

drawing of

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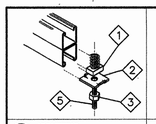


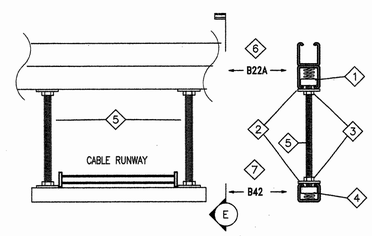
(A) ISOMETRIC



(B) PLAN SYMBOL

SINGLE TRAPEZE ASSEMBLY FROM "U" CHANNEL FOR HANGING CABLE RUNWAY OR CABLE TRAY.

(C) PRODUCT DESCRIPTION



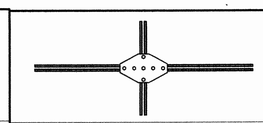

(D) ELEVATION

(E) SECTION

1. SPRING NUT 5/8"-11, 200 SERIES. B-LINE 5/8"-11 N255.
2. NO TWIST SQUARE WASHER 11/16" HOLE. B-LINE B202-1D.
3. HEX NUT 5/8"- 11. B-LINE 5/8" HN.
4. SPRING NUT 5/8"-11, 500 SERIES. B-LINE 5/8"-11 N555.
5. 5/8" THREADED ROD.
6. METAL FRAMING CHANNEL BACK-TO-BACK STYLE. 1-5/8" X 3-1/4", 12 GAUGE. B-LINE B22A.
7. METAL FRAMING CHANNEL 1-5/8" X 1", 12 GAUGE. B-LINE B42.

(D) NOTES

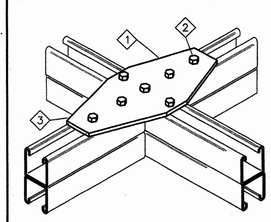
## 8 "U" FRAMING CHANNEL SINGLE TRAPEZE ASSEMBLY



(A) PLAN SYMBOL
Gusset Cross

SEVEN HOLE CROSS GUSSET PLATE FOR USE IN JOINING HORIZONTAL SEGMENTS AT "U" AND DOUBLE "U" FRAMING CHANNEL. 1/4" THICK ELECTROPLATED ZINC.

(B) PRODUCT DESCRIPTION

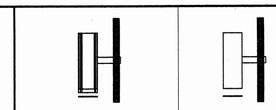


(C) ISOMETRIC VIEW

1. SEVEN HOLE CROSS GUSSET PLATE WITH (7) 9/16" HOLES FOR 1/2" DICROMATE BOLTS.
2. SEVEN 1/2-13, 1-1/4" LONG HEX HEAD BOLTS ZINC PLATED, WITH (7) 1/2-13 SPRING NUTS FOR 1-5/8" DEEP "U" FRAMING CHANNEL.
3. GUSSET PLATE SHALL BE MOUNTED ON TOP SIDE OF DOUBLE "U" CHANNEL TO LEAVE BOTTOM SIDE CLEAR FOR THREADED ROD SUPPORT OF CABLE LADDER AND WELDED WIRE TRAY.

(D) NOTES

## 6 SEVEN HOLE CROSS GUSSET PLATE



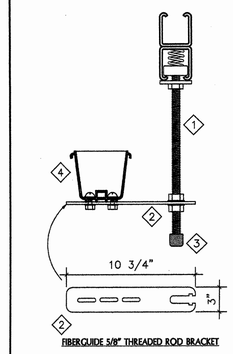
(A) PLAN VIEW



(B) PLAN SYMBOL

4"/6" PVC FIBER OPTIC PATCH CABLE TROUGH HUNG FROM "U" CHANNEL W/ THREADED ROD BRACKET.

(C) DESCRIPTION

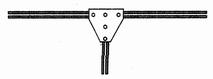



(D) ISOMETRIC VIEW

1. THREADED ROD SECURED TO "U" CHANNEL ABOVE WITH SPRING NUT, NO TWIST SQUARE WASHER AND HEX NUT, SIZED FOR 5/8" THREADED ROD.
2. THREADED ROD ATTACHMENT BRACKET, ADC TELECOMMUNICATIONS P/N FGS-HNTR-5/8".
3. CAP ALL THREADED RODS AND BOLT ENDS EXPOSED TO THE FLOOR WITH PLASTIC END CAPS. B-LINE PART # FOR 5/8" THREADED ROD = SB-300D.
4. FIBER OPTIC TROUGH ATTACHED TO THREADED ROD BRACKET. SEE FIBER OPTIC TROUGH DETAILS AND SPEOIFICATIONS.

(E) NOTES

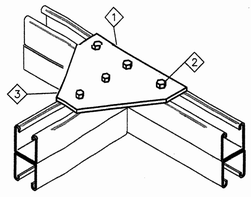
## 3 FIBER OPTIC TROUGH SUPPORT ROD CONNECTION @ "U" CHANNEL



(A) PLAN SYMBOL
Gusset_Tee

FIVE HOLE TEE GUSSET PLATE FOR USE IN JOINING HORIZONTAL SEGMENTS AT "U" AND DOUBLE "U" FRAMING CHANNEL. 1/4" THICK ELECTROPLATED ZINC.

(B) PRODUCT DESCRIPTION

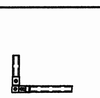


(C) ISOMETRIC VIEW

1. FIVE HOLE TEE GUSSET PLATE WITH (5) 9/16" HOLES FOR 1/2" DIAMETER BOLTS.
2. FIVE 1/2-13, 1-1/4" LONG HEX HEAD BOLTS ZINC PLATED, WITH (7) 1/2-13 SPRING NUTS FOR 1-5/8" DEEP "U" FRAMING CHANNEL.
3. GUSSET PLATE SHALL BE MOUNTED ON TOP SIDE OF DOUBLE "U" CHANNEL TO LEAVE BOTTOM SIDE CLEAR FOR THREADED ROD SUPPORT OF CABLE LADDER AND WELDED WIRE TRAY.

(D) NOTES

## 10 FIVE HOLE GUSSET PLATE

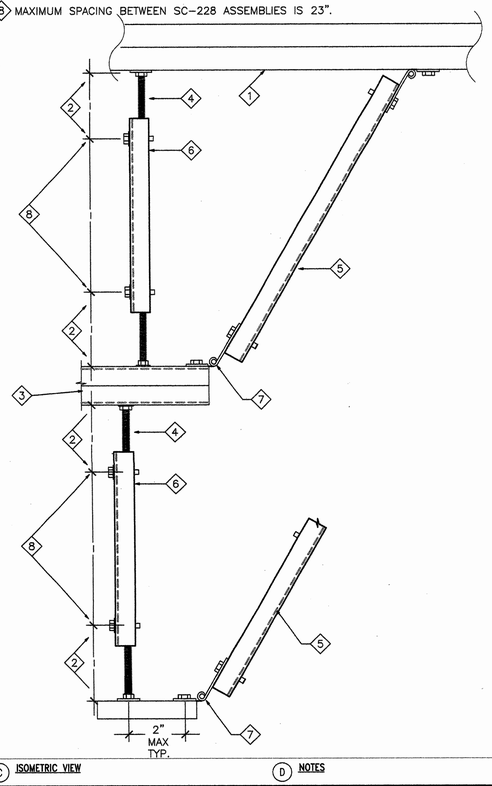


(A) PLAN SYMBOL

GRID SUPPORT AND HANGER ROD *STIFFENER ASSEMBLY.*

(B) PRODUCT DESCRIPTION

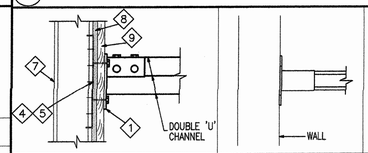
1. DOUBLE "U" FRAMING CHANNEL SUPPORT GRID ASSEMBLY ANCHORED TO WALLS.
2. MAXIMUM DISTANCE FROM TOP OF CHANNEL WHERE THE HANGER ROD IS ATTACHED TO THE FIRST BOLT OF THE CHANNEL ROD STIFFENER IS 6".
3. B-LINE, B52A CHANNEL, 1-5/8" X 1-5/8", CHANNEL, PLAIN STEEL FINISH – 14 GAUGE THICK, PLAIN FINISH.
4. 5/8" ALL THREADED ROD, (ATR)
5. B22 CHANNEL LONGITUDINAL BRACE (9'-4" (2.8 M – MAXIMUM LENGTH) MOUNTED AT 45°.
6. B-LINE, B22 CHANNEL, 1-5/8" X 1-5/8" ROD STIFFENER WITH A MINIMUM OF TWO (2) SC228 ASSEMBLIES.
7. B-LINE, B335-2-5/8 THREE HOLE ADJUSTABLE HINGE WITH STANDARD PLAIN FINISH.
8. MAXIMUM SPACING BETWEEN SC-228 ASSEMBLIES IS 23".




(C) ISOMETRIC VIEW

(D) NOTES

## 7 TRAPEZE ASSEMBLY STRUCTURAL BRACING
NTS

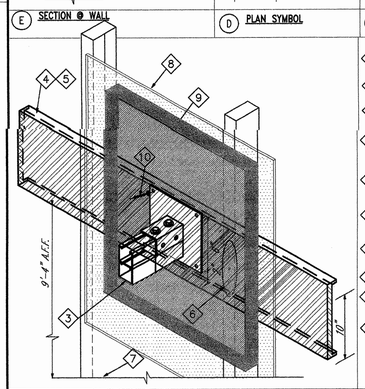



(E) SECTION @ WALL

(D) PLAN SYMBOL

CUT AWAY SECTION OF TELECOM ROOM WALL SHOWING PLACEMENT OF *BACKING FOR ATTACHMENT OF* "U" CHANNEL BASE.

(B) DESCRIPTION

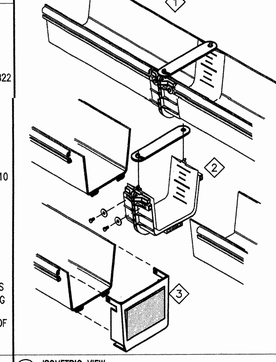



1. POST BASE FOR B22, STANDARD FINISH PART #B280SQ
2. 9/16" DIAMETER 4 HOLES AT EACH CORNER
3. 1-5/8" X 1-5/8" CHANNEL, B-LINE #B22
4. 10" x 14 GA. MIN. TRACK, NOTCHED AND FASTENED TO STUDS W/ (5) #10 x 1/2" SHEET METAL SCREWS.
5. BACKING SHALL EXTEND AROUND THE PERIMETER OF ROOM.
6. BACKING FASTENED TO STUDS W/ (5) #10 x 1/2" SHEET METAL SCREWS.
7. 16 GA. MIN. METAL STUD, FLANGES SHALL NOT BE CUT.
8. GWB – GYPSUM WALL BOARD
9. 3/4" FIRE RESISTANT PLYWOOD
10. 3" x 1/4" STEEL, SELF-TAPPING SCREWS WITH 1" FENDER WASHERS FOR SECURING BASE PLATE TO WALL BACKING. SCREWS SHALL BE POSITIONED AT UPPER EDGE OF EACH OF THE FOUR PLATE MOUNTING HOLES.

(C) ISOMETRIC VIEW FROM BELOW

(A) NOTES

## 5 WALL ANCHORING ATTACHMENT DETAIL




(A) PLAN VIEW

(B) PLAN SYMBOL

FIBER OPTIC TROUGH "STRAIGHT SECTION" (FGS-MSHS-A, 4") WITH JUNCTION ASSEMBLIES & END CAP KITS.

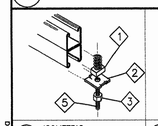
(C) DESCRIPTION

1. STRAIGHT FIBER TROUGH SECTION, 4". (2) 4" JUNCTION ASSEMBLIES REQUIRED FOR CONNECTION TO OTHER FIBER OPTIC TROUGH COMPONENTS.
2. JUCTION ASSEMBLY, 4" 4" JUNCTION ASSEMBLY W/ SNAP TOGETHER FEATURE AND FACTORY INSTALLED SET SCREWS.
3. END CAP KIT, 4" REQUIRED FOR TERMINATION OF DUCT WHERE NO OTHER FITTINGS ARE SHOWN OR CALLED FOR IN THE DRAWINGS OR SPECIFICATIONS.

(D) ISOMETRIC VIEW

(E) NOTES

## 2 4" STRAIGHT CONNECTIONS W/ JUNCTION ASSEMBLIES AND END CAP



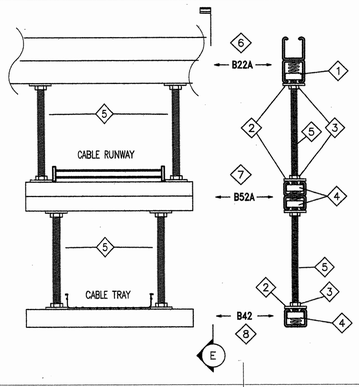
(A) ISOMETRIC



(B) PLAN SYMBOL

DOUBLE TRAPEZE ASSEMBLY FROM "U" CHANNEL FOR HANGING CABLE TRAY AND CABLE RUNWAY.

(C) PRODUCT DESCRIPTION




1. SPRING NUT 5/8"-11, 200 SERIES. B-LINE 5/8"-11 N255.
2. NO TWIST SQUARE WASHER 11/16" HOLE. B-LINE B202-1D.
3. HEX NUT 5/8"- 11. B-LINE 5/8" HN.
4. SPRING NUT 5/8"-11, 500 SERIES. B-LINE 5/8"-11 N555.
5. 5/8" THREADED ROD.
6. METAL FRAMING CHANNEL BACK-TO-BACK STYLE. 1-5/8" X 3-1/4", 12 GAUGE. B-LINE B22A.
7. METAL FRAMING CHANNEL BACK-TO-BACK STYLE. 1-5/8" X 1-5/8", 12 GAUGE. B-LINE B52A.
8. METAL FRAMING CHANNEL 1-5/8" X 1", 12 GAUGE. B-LINE B42.

(D) ELEVATION & SECTION

(E) SECTION

(D) NOTES

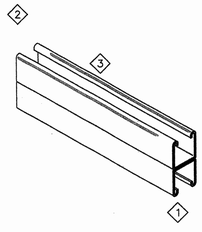
## 9 "U" FRAMING CHANNEL DOUBLE TRAPEZE ASSEMBLY



(A) PLAN SYMBOL
3D Channel

METAL, DOUBLE "U" FRAMING CHANNEL. 12 GAUGE PLAIN FINISH, 1-5/8" WIDE. 3-1/4: TALL. 20 FOOT LENGTH TYPICAL.

(B) PRODUCT DESCRIPTION

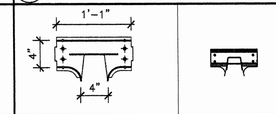


(C) ISOMETRIC VIEW

1. TYPICAL B-LINE B22A-240. NO HOLES IN DOUBLE "U" CHANNEL.
2. SPRING CLIPS SHALL BE UTILIZED TO ATTACH HARDWARE TO "U" FRAMING CHANNEL. NO NOT DRILL OR PUNCH HOLES IN THE "U" FRAMING CHANNEL.
3. SUPPORT OPEN SPANS OF DOUBLE "U" CHANNEL AT 6'-0" MIN.

(D) NOTES

## 4 DOUBLE "U" FRAMING CHANNEL

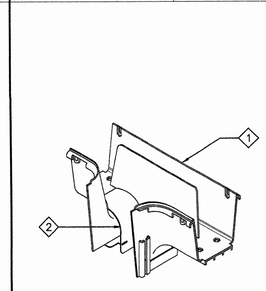



(A) PLAN VIEW

(B) PLAN SYMBOL

FIBER OPTIC THOUGH DOWNSPOUT

(C) DESCRIPTION



(D) DOWNSPOUT PERSPECTIVE

1. STANDARD DOWNSPOUT, 4". 4" JUNCTION ASSEMBLIES REQUIRED FOR CONNECTION TO OTHER FIBER OPTIC TROUGH COMPONENTS.
2. DOWNSPOUT INSERT FOR CONNECTION TO 2" VERTICAL DUCT OFFSET ASSEMBLY.

(E) NOTES

## 1 FIBER OPTIC TROUGH DOWNSPOUT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# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

OWNER

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

drawing title: building no:
DETAILS
FIBER OPTIC TROUGH AND "U"- CHANNEL

LMC SCIENCE 313-023-112.01-0-00.00
drawing no:
T6-3
drawing of

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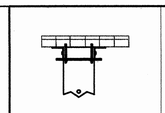
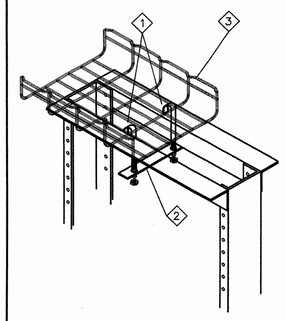


(A) SECTION VIEW

(B) PLAN SYMBOL

FIELD ASSEMBLY FOR ATTACHING EQUIPMENT RACK TO HORIZONTAL CABLE TRAY.

(C) DESCRIPTION

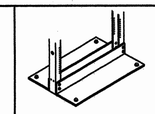



(D) ISOMETRIC VIEW

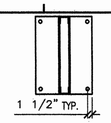
1. J-BOLT, B-LINE SB-1003-K.
2. TWO-HOLE STEEL PLATE, B-LINE SB-215-04.
3. STEEL-WIRE CABLE TRAY.

(E) NOTES

## 6 J-BOLT EQUIPMENT RACK SUPPORT ASSEMBLY



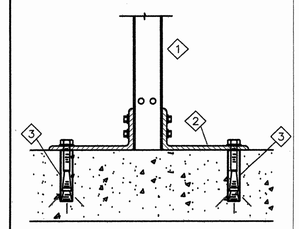
(A) ISOMETRIC VIEW




(B) PLAN SYMBOL

RACK FLOOR FLANGE ATTACHMENT TO CONCRETE FLOOR.

(C) DESCRIPTION

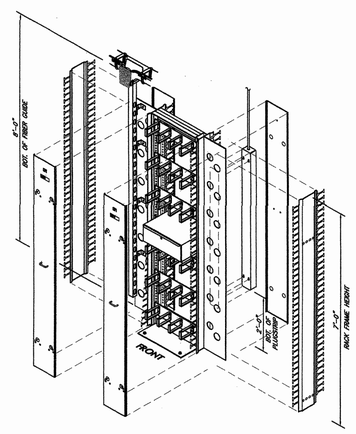



(D) PLAN VIEW

1. STANDARD 19" x 84" OPEN RAIL RACK.
2. RACK FLANGE
3. 5/8" EXPANSION ANCHOR WITH 3-1/2" EMBED INTO CONCRETE SLAB. (FOUR TOTAL).
   ANCHOR MUST BE TESTED AND APPROVED UNDER DUAL-LOADING CONDITIONS.
   HILTI KWIK-BOLT II, RAMSET/REDHEAD TRUBOLT, OR EQUAL, (NO KNOWN EQUAL).

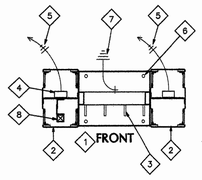
(E) NOTES

## 3 RACK ATTACHMENT AT CONCRETE FLOOR




1. 19 X 84 INCH SELF SUPPORTING, ALUMINUM, U.L. LISTED, POWDER COATED, EQUIPMENT RACK, DRILLED AND TAPPED, EIA/TIA SPACED HOLES FOR ATTACHING EQUIPMENT ON FRONT AND BACK.
2. (1) DOUBLE-SIDED VERTICAL RACK CABLE MANAGER ON EACH SIDE OF THE EQUIPMENT RACK.
3. LARGE HORIZONTAL RING PANEL, 2 RU.
4. RACK MOUNT POWER DISTRIBUTION UNIT (PDU), 16 AMP, 120 VOLT, WITH DISPLAY INTERFACE, (24) NEMA 5-20R OUTLETS, NEMA L5-20 POWER CORD, CORD RETAINER HOLES, SERIAL CABLE CONNECTION FOR INTERFACE
5. CONNECT PDU TO DROP CORD PLUG-IN CABLE WITH 120VAC, 20 AMP, L5-20R RECEPTACLE CONNECTOR FROM JUNCTION BOX MOUNTED TO ELECTRICAL BUSWAY ABOVE. CIRCUITRY, BUSWAY, JUNCTION BOX AND DROP CORD PROVIDED BY OTHERS.
6. 5/8" EXPANSION ANCHOR WITH 3-1/2" EMBED INTO CONCRETE SLAB (FOUR TOTAL). ANCHOR MUST BE TESTED AND APPROVED UNDER DUAL-LOADING CONDITIONS. HILTI KWIK-BOLT II, RAMSET/REDHEAD TRUBOLT, OR EQUAL, (NO KNOWN EQUAL).
7. PROVIDE # 6 COPPER GROUND CABLE BETWEEN THE RACK AND THE COPPER GROUND BAR.
8. 2" VERTICAL FIBER OPTIC SLOTTED DUCT TO BE MOUNTED INSIDE TO THE FRONT AND MIDDLE OF THE VERTICAL CABLE MANAGER.

(B) NOTES

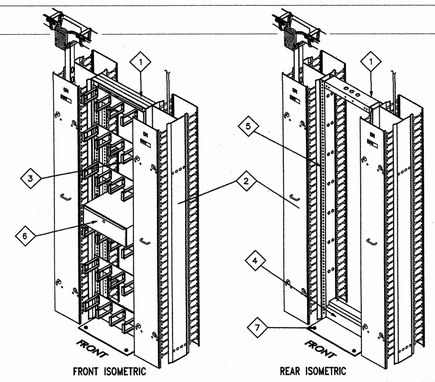



(A) ELEVATIONS

## 5 EQUIPMENT RACK BUILDOUT

1. 19 X 84 INCH SELF SUPPORTING, ALUMINUM, U.L. LISTED, POWDER COATED, WHITE EQUIPMENT RACK, DRILLED AND TAPPED, EIA/TIA SPACED HOLES FOR ATTACHING EQUIPMENT ON FRONT AND BACK.
2. (1) DOUBLE-SIDED VERTICAL RACK CABLE MANAGER ON EACH SIDE OF THE EQUIPMENT RACK.
3. LARGE HORIZONTAL RING PANEL, 2 RU, WHITE.
4. BASE DUST COVER, 19 INCH EQUIPMENT RACK, WHITE.
5. RACK RAILS, ON FRONT AND REAR OF RACK, HOLES DRILLED AND TAPPED ON EIA/TIA CENTERS.
6. RACK STORAGE DRAWER AND WORK SURFACE. MOUNT IN EQUIPMENT RACK AS SHOWN. TOP OF UNIT SHALL BE 34 INCHES A.F.F.
7. RACK ATTACHMENT, (4) PER RACK FASTENED W/ (4) 5/8" SAE GRADE 8 HEX HEAD BOLTS INTO IMBEDED CHANNELS OR APPROVED ANCHORS.

(B) NOTES




FRONT ISOMETRIC

REAR ISOMETRIC

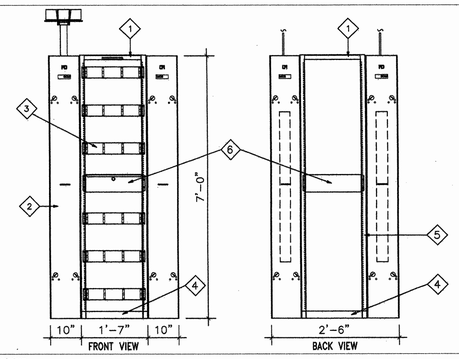
(A) ISOMETRIC VIEWS

## 4 EQUIPMENT RACK ISOMETRICS

## 2 EQUIPMENT RACK PLAN

1. 19 X 84 INCH SELF SUPPORTING, ALUMINUM, U.L. LISTED, POWDER COATED, WHITE EQUIPMENT RACK, DRILLED AND TAPPED, EIA/TIA SPACED HOLES FOR ATTACHING EQUIPMENT ON FRONT AND BACK.
2. (1) DOUBLE-SIDED VERTICAL RACK CABLE MANAGER ON EACH SIDE OF THE EQUIPMENT RACK.
3. LARGE HORIZONTAL RING PANEL, 2 RU, WHITE.
4. BASE DUST COVER, 19 INCH EQUIPMENT RACK, WHITE.
5. RACK RAILS, ON FRONT AND REAR OF RACK, HOLES DRILLED AND TAPPED ON EIA/TIA CENTERS.
6. RACK STORAGE DRAWER AND WORK SURFACE. MOUNT IN EQUIPMENT RACK AS SHOWN. TOP OF UNIT SHALL BE 34 INCHES A.F.F.

(B) NOTES




(A) ELEVATIONS

## 1 EQUIPMENT RACK ELEVATIONS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# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00

file name:

drawn by: checked by:

date: NOVEMBER 15, 2004

drawing title: DETAILS EQUIPMENT RACK

building no.:

LMC SCIENCE 313-023-T12.01-0-00.00

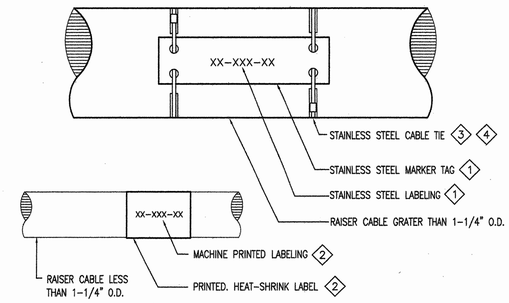
drawing no.: T6-4

drawing of

Los Medanos College\Science Building\BID Set\acad\T6-4.dwg 11-08-04 08:22:58 AM cmendoza

1. STAINLESS STEEL MARKER TAG, COPPER RISER CABLE >1-1/4" DIAMETER, LABEL TYPE PANDUIT MMP350-C .75 x3.5 316 STAINLESS, EMBOSSED .25"h PRINTING, AIREL SAN SERIF FONT.
2. MACHINE PRINTED LABELING AT COPPER RISER CABLE < 1-1/4" DIAMETER, LABEL TYPE PANDUIT MMP350-C .75 x3.5 316 STAINLESS, MACHINE .25"h PRINTING, AIREL SAN SERIF FONT.
3. STAINLESS STEEL CABLE TIE W/NEOPRENE CUSHION SLEEVE, LOCATE RISER CABLE LABEL STRAP STEEL TYPE PANDUIT MLT65-CP316 NON-MAGNETIC,.18"w NO PRINTING
4. STAINLESS STEEL CABLE TIE W/NEOPRENE CUSHION SLEEVE, LOCATE LABEL TYPE PANDUIT PCSS-B-CR, NO PRINTING

A NOTES

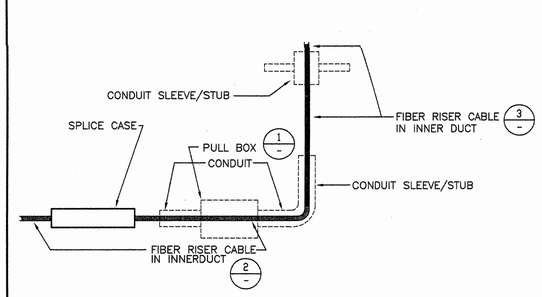



B PLAN VIEW

## 3 FIBER OPTIC CABLE LABELING

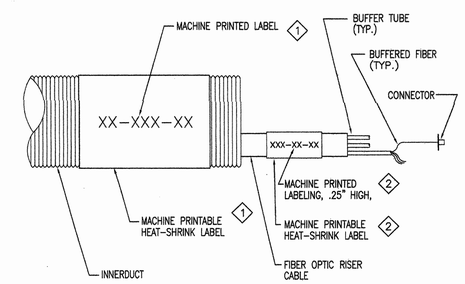
1. LABEL LOCATION AT INNER DUCT <1-1/4" DIAMETER, LABEL TYPE PANDUIT MMP350-C .75" x3.5" 316 STAINLESS MACHINE .25"h PRINTING, AIREL SAN SERIF FONT
2. LABEL LOCATION AT FIBER OPTIC RISER CABLE, LABEL TYPE PANDUIT MMP350-C .75" x3.5" 316 STAINLESS, MACHINE 25"h PRINTING, ARIEL SAN SERIF FONT.

A NOTES




## 5 FIBER OPTIC RISER CABLE LABELING LOCATIONS

NOTE:

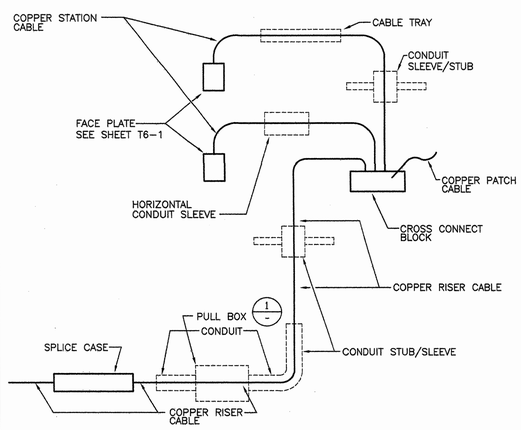



B PLAN VIEW

## 2 FIBER OPTIC CABLE & INNERDUCT LABELING

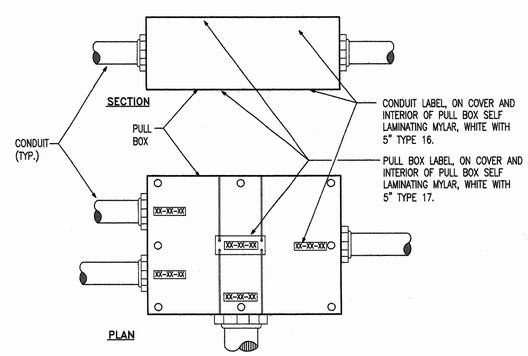
1. PANDUIT PLL 17 Y2.-2.5, 1.88" X .83" SELF LAMINATING LABEL ON COVER AND INTERIOR OF PULL BOX. MACHINE PRINTED .5 H, ARIEL SAN SERIF.
2. PULL BOX LABEL, SELF LAMINATING LABEL ON COVER AND INTERIOR OF PULL BOX. MACHINE PRINTED .5 H, ARIEL SAN SERIF.

A NOTES




## 4 COPPER RISER AND STATION CABLE LABELING LOCATIONS

NOTE:




B PLAN VIEW

## 1 TYPICAL PULL BOX LABELING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# SCIENCE BUILDING LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
file name:
drawn by: checked by:
date: NOVEMBER 15, 2004

drawing title: DETAILS IDENTIFICATION AND LABELING
building no: LMC SCIENCE 313-023-112.01-0-00.00
drawing no: T6-5
drawing of

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1. WALL ASSEMBLY– THE 1 OR 2 HR. FIRE–RATED GYPSUM WALLBOARD/ STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS– WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES STEEL STUDS TO BE 3–1/2 IN. WIDE BY 1–3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC

B. WALL BOARD, GYPSUM*– 5/8 IN. THICK, 4FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE UNDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 6 IN.

THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.

2. STEEL SLEEVE–CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019 IN. THICK (28 GAUGE) GALV SHEET AND HAVING A MIN 2 IN. LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS APPROX 7/8 TO 1 IN. SUCH THAT WHEN INSTALLED, THE ENDS OF THE SLEEVES WILL PROJECT APPROX 7/16 TO 1/2 IN. BEYOND THE SURFACE OF THE WALL IN EACH SIDE OF THE WALL ASSEMBLY. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO DIAM SMALLER THAN THE MAX 6 IN. DIAM THROUGH OPENINGS, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM WALLBOARD LAYERS.

3. CABLES– AGGREGATE CROSS–SECTIONAL AREA OF CABLES IN OPENING TO BE MIN 8 PERCENT TO MAX 36 PERCENT OF THE CROSS–SECTIONAL AREA OF THE SLEEVED OPENING IN WALL. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE SPACE BETWEEN CABLES AND PERIPHERY OF OPENING SHALL BE MIN 1/4 IN. TO MAX 2–1/2 IN. MIN SEPARATION BETWEEN ARMORED CABLES AND /OR METAL–CLAD CABLES (ITEM 3F) AND BETWEEN ARMORED CABLES AND /OR METAL–CLAD CABLES AND ALL OTHER TYPES OF CABLES SHALL BE 1/4 IN. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLE MAY BE USED.

A. MAX 350 KCMIL SINGLE CONDUCTOR POWER CABLES; CROSS LINKED POLYETHYLENE (XLPE) INSULATION.

B. MAX 200 PAIR NO. 24 AWG CONDUCTOR TELECOMMUNICATION CABLES; POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.

C. MAX 7/C NO. 2/0 AWG MULTICONDUCTOR POWER AND CONTROL CABLES; XLPE OR PVC INSULATION WITH XLPE OR PVC JACKET.

D. MAX 3/C NO. 2/0 AWG CABLES; PVC INSULATION AND JACKET.

E. MAX 6/94 FIBER OPTIC (F.O.) CABLE; PVC INSULATION AND JACKET.

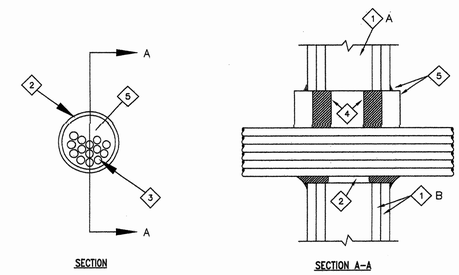
F. MAX FOUR COPPER CONDUCTOR NO. 2/0 AWG (OR SMALLER) ALUMINUM OR STEEL ARMORED CABLES OR METAL–CLAD CABLE CLASSIFIED AS A THROUGH PENETRATION PRODUCT. THE T RATING IS 0 HR WHEN ARMORED CABLES OR METAL–CLAD CABLES ARE USED. SEE THROUGH PENETRATING PRODUCT* (XHLY) CATEGORY IN THE UL FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS. ANY ALUMINUM OR STEEL ARMORED CABLE OR METAL–CLAD CABLE CLASSIFIED AS A THROUGH PENETRATION PRODUCT MEETING THE ABOVE SPECIFICATIONS MAY BE USED.

4. PACKING MATERIAL–MIN 1 IN. THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WLL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MIN 1 IN. FROM END OF STEEL SLEEVE (MIN 1/2 IN. FROM SURFACE OF GYPUM WALLBOARD) ON BOTH SIDES OF WALL ASSEMBLY.

5. FILL, VOID OR CAVITY MATERIAL*– CAULK–MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH ENDS OF THE STEEL SLEEVE. A NOM 1/4 IN. DIAM CONTINUOUS BEAD OF CAULK SHALL BE APPLIED GYPSUM WALLBOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.

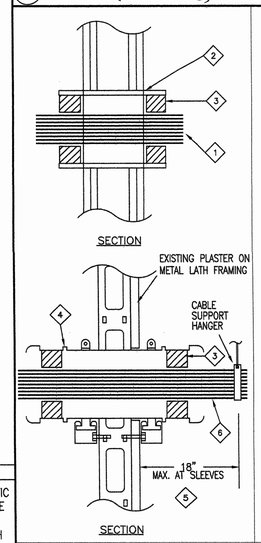
MINNESOTA MINING & MFG. CO. – CP 25WB+
* BEARING THE UL CLASSIFICATION MARKING

(B) FIRE STOPPING NOTES




(A) SECTIONS

## 2 W-L-3032 · CABLE THROUGH FRAMED WALL
(1-HR RATED)




1. PENETRATING COMPONENTS: DATA OR VOICE CABLES W/ AGGREGATE CROSS–SECTIONAL AREA OF 5.0 SQUARE INCHES. RIGIDLY SUPPORT THE CABLES ON EACH SIDE OF THE SLEEVE ASSEMBLY. AGGREGATE OF CABLE FILL SHALL NOT EXCEED 40%. MAXIMUM DIAMETER OF OPENING SHALL NOT EXCEED 4".

2. EMT METAL SLEEVE.

3. MIN. 1" THICK PUTTY PACKED TIGHTLY INTO ANNULAR SPACE BETWEEN CABLES AND CONDUIT SLEEVE AS WELL AS THE INTERSTICES BETWEEN CABLES.

MINNESOTA MINING AND MANUFACTURING CO. – MPS–2+

4. BOX CONNECTOR AND BUSHING RING TO PROTECT STATION CABLES ARE NOT PART OF THE FIRE STOPPING SYSTEM AND ARE SHOWN FOR COORDINATION.

5. SUPPORT CABLES WITHIN 12" AT FIRESTOPPING SYSTEM ON BOTH SIDES OF THRU WALL PENETRATIONS. SEE UL FIRE RESISTANCE DIRECTORY.

6. MAXIMUM CABLE FILL 40%. APPROXIMATELY (132) – 4 PAIR 24 AWG STATION CABLES AND 2 STRAND MULTIMODE FIBER OPTIC CABLE W/ OVER SHEATH.

(A) PLAN/SECTION (B) FIRE STOPPING NOTES

## 1 W-L-3031 · THROUGH WALL PENETRATION W/ EMT SLEEVE
(1-HR. RATED)

| | | | PATHWAYS | | | | | | | CABLING | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | STATION CONDUIT | | BACKBONE RISER CONDUIT | SLEEVE | | INNERDUCT ENT | | COPPER STATION CABLE | | COPPER BACKBONE CABLE | | FIBER OPTIC BACKBONE CABLE THROUGH FLOOR |
| SYSTEM | F–RATINGS | T–RATINGS | AT FLOOR | AT WALL | | THROUGH VERTICAL PARTITION | THROUGH VERTICAL FLOOR | THROUGH FLOOR | THROUGH WALL | THROUGH FLOOR | THROUGH WALL | THROUGH FLOOR | THROUGH WALL | |
| W–L–3031 | 1 & 2 hr. | 1/2, 1 & 1–1/2 hr. | yes | yes | yes | yes | yes | yes | yes | no | yes | yes | no | yes |
| W–L–3032 | 1 & 2 hr. | 0 & 1/4 hr. | yes | yes | yes | yes | yes | yes | yes | no | yes | yes | no | yes |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# SCIENCE BUILDING
# LOS MEDANOS COLLEGE

Contra Costa Community College District

owner

tBP project number : 20247.00
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drawn by: checked by:
date: NOVEMBER 15, 2004

drawing title: DETAILS FIRESTOPPING
building no:

LMC SCIENCE 313-023-112.01-0-00.00
drawing no: T6-6
drawing of


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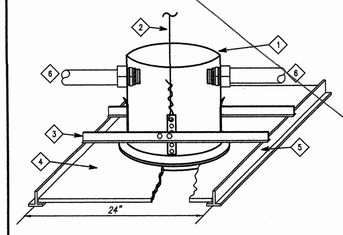
DELETE ENTIRE SHEET PER ADDENDUM No. 2

| (A) SYMBOL | (B) DESCRIPTION |
|---|---|
| (S) | LOUDSPEAKER BACKCAN. CONNECT WITH CONTINUOUS 1" EMT TO NEAREST LOUDSPEAKER BACKCAN. FOR FLUSH-MOUNT CEILING AUDIO/VISUAL CIRCUITS. |




(D) ISOMETRIC VIEW

(C) NOTES

1. LOUDSPEAKER BACKCAN, ATLAS SOUND BMT95-4.
2. SAFETY WIRE TO BE ATTACHED TO STRUCTURAL CEILING AND LOUDSPEAKER BACKCAN. WIRE SHALL BE TAUT AND TIED AT BOTH ENDS WITH 3 TIGHT WRAPS, MIN. ASSURE WEIGHT OF BACKCAN IS NOT SUPPORTED BY CEILING TILE.
3. PROVIDE CHANNEL SUPPORTS FOR T-BAR TYPE FINISHED CEILING. 28" LONG, MIN. (TYP. OF 2).
4. TYPICAL LAY-IN TILE.
5. T-BAR CHANNEL GRID.
6. 1" EMT FOR LOW VOLTAGE AUDIO VISUAL CIRCUITS.

1 CEILING-RECESSED LOUDSPEAKER BACKCAN MOUNTING

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# SCIENCE BUILDING
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tBP project number : 20247.00

file name:

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date: NOVEMBER 15, 2004

drawing title: DETAILS AUDIOVISUAL

building no:

LMC SCIENCE 313-023-112.01-0-00.00

drawing no: T6-7

drawing of

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ADDENDUM
DSA FILE # 7-C1
DSA APPL.# 01-106226

## GENERAL NOTES

1. ALL WALL BENCHTOPS SHALL BE 30" DEEP INCLUDING BACK SPLASH (UNLESS OTHERWISE NOTED).
2. ALL ISLAND BENCHTOPS SHALL BE 60" DEEP (UNLESS OTHERWISE NOTED).
3. ALL BENCHES AND TABLES SHALL BE 36" HIGH (UNLESS OTHERWISE NOTED).
4. ALL BENCH/TABLE TOPS TO BE 1" THICK EPOXY RESIN (UNLESS OTHERWISE NOTED).
5. ALL BACK AND SIDE SPLASHES AND PIPE DROP CURBS TO BE 1" THICK AND 4" HIGH.
6. PROVIDE SIDE SPLASH AT ALL BENCH TOPS AND SCULLERY SINKS AGAINST FUME HOODS AND/OR ADJACENT WALLS.
7. OVERALL LENGTH OF BENCHTOPS SHALL BE DETERMINED BY CASEWORK SIZES AND DIMENSIONS AS INDICATED ON PLANS. TOPS SHALL OVERHANG 1/2" AT EACH END AND 1" FROM FRONT OF BASE CABINETS AND TABLES. WHEN OVERALL DEMENSIONS ARE GIVEN, 1/2" OVERHANG IS NOT INCLUDED.
8. ALL CASEWORK, FUME HOODS AND ANY OTHER FURNISHINGS WITH EXPOSED-TO-VIEW BACKS AND SIDES SHALL BE FINISHED.
9. INSTALL CLOSURE PANELS BETWEEN BACK OF CABINETS OR HOODS AND WALLS AT EXPOSED ENDS AND BETWEEN BASE CABINETS AND/OR HOODS THAT ARE SET BACK TO BACK.
10. ALL PENETRATIONS THROUGH BENCHTOP SHALL BE SEALED WITH SEALANT.
11. BACKS OF COUNTERTOPS AND SPLASHES AGAINST WALLS SHALL BE SEALED TO THE WALL WITH SEALANT.
12. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
13. OWNER'S REPRESENTATIVE WILL SELECT COLORS FOR ALL COMPONENTS OF PROJECT INDICATED ON THESE DRAWINGS. COLOR SELECTION WILL BE FROM THE CASEWORK MANUFACTURER'S STANDARD COLOR LINE.
14. FREE STANDING SHELVING AND CASEWORK LESS THAN 18" DEEP SHALL BE SECURED TO PREVENT TIPPING. SUBMIT SHOP DRAWINGS OF ATTACHMENT PRIOR TO INSTALLATION.
15. SAFETY SHOWER/EYEWASH UNITS SHALL COMPLY WITH ADA & ANSI STANDARDS FOR USABILITY BY THE PHYSICALLY DISABLED. SAFETY SHOWER/EYEWASH UNITS SHALL BE FURNISHED UNDER DIVISION 11 FOR INSTALLATION UNDER DIVISION 15.
16. FOR LABORATORY SERVICE FITTING TYPES, LOCATIONS AND ORDER, SEE LABORATORY FURNISHINGS PLANS. THESE FITTINGS SHALL BE PROVIDED UNDER DIVISION 11, FOR INSTALLATION UNDER DIVISION 15.
17. WHERE NO FUME HOOD OCCURS ADJACENT TO CORROSIVE STORAGE CABINETS, ROUTE VENT PIPE (IN PIPE CHASE) UP NEAREST PIPE DROP ENCLOSURE TO EXHAUST DUCT SYSTEM FOR CONNECTION BY DIVISION 15.
18. WHERE FUME HOOD OCCURS ADJACENT TO VACUUM PUMP OR CORROSIVE STORAGE CABINETS, ROUTE VENT PIPE (IN PIPE CHASE) TO FUME HOOD AND EXTEND 4" ABOVE FUME HOOD WORK SURFACE BEHIND BAFFLE.
19. ALL SNORKEL EXHAUST SHOWN ON THESE DRAWINGS, INCLUDING FLEXIBLE DUCT HOSE, SHALL BE PROVIDED UNDER DIVISION 11. DIVISION 15 SHALL PROVIDE DUCTWORK TO 6" BELOW CEILING OR 9'-0" ABOVE FINISHED FLOOR AT OPEN CEILINGS AND MAKE FINAL CONNECTION TO SNORKEL. - (NOT USED) 2
20. LOCATION OF EQUIPMENT, SUCH AS FUME HOODS, OVERHEAD SERVICE CARRIERS, BRACES OR ANY OTHER ITEMS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL OR MECHANICAL SYSTEMS, SHALL BE CAREFULLY COORDINATED. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
21. UNLESS OTHERWISE NOTED, ALL MISCELLANEOUS CHANNELS, BRACKETS AND FITTINGS INDICATED ON ALL LABORATORY FURNISHINGS DRAWINGS SHALL BE SUPPLIED, INSTALLED AND PAINTED UNDER DIVISION 11.
22. CONTRACTOR SHALL EXAMINE ALL LABORATORY FURNISHINGS PLANS AND COORDINATE WITH REFLECTED CEILING PLANS FOR PROPER CEILING HEIGHTS & PIPE DROP ENCLOSURE HEIGHTS AND LOCATIONS.

LABORATORY FURNISHINGS NOTES & LEGEND
SCALE: NONE

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LICENSED ARCHITECT SEAN TOWNE No. C 14749 REN. SEPT. 2006 STATE OF CALIFORNIA

ADDENDUM #2
DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART SHEET: LFI-00
SHEET: LFR-1

ADDENDUM
DSA FILE # 7-C1
DSA APPL.# 01-106226

## LABORATORY SYMBOLS LEGEND

| | SYMBOL LEGEND | DESCRIPTION |
|---|---|---|
| 1 | | PIPE DROP ENCLOSURE |
| 2 | | DRYING RACK |
| 3 | | ADJUSTABLE WALL SHELVES (2 TIER U.O.N.) |
| 4 | | ADJUSTABLE ISLAND/PENINSULA BENCH SHELVING (2 TIER U.O.N.) |
| 5 | | CYLINDER RESTRAINT ASSEMBLY |
| 6 | | MARINE EDGE |
| 7 | | OPEN INDUSTRIAL METAL SHELF UNITS |
| 8 | | 18" ADJUSTABLE WALL SHELVING ON UNISTRUT |
| 9 | NOT USED | NOT USED |
| 10 | | SAFETY STATION WITH RECESSED PULL-DOWN EYEWASH |
| 11 | | MOVABLE TABLE |
| 12 | | WIRE SHELVING UNIT |
| 13 | | RECESSED MIXING UNIT, HOSE STATION |
| 14 | | ELECTRICAL PEDESTAL BY DIVISION 16 (2) |
| 15 | NOT USED | NOT USED |
| 16 | | WATER PURIFIER - OWNER FURNISHED, OWNER INSTALLED |

LABORATORY FURNISHINGS NOTES & LEGEND
SCALE: NONE

SCIENCE BUILDING
LOS MEDANOS COLLEGE
Pittsburg CA
Contra Costa Community College School District
ARCHITECT
tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520
p: 925.246.6419 f: 925.246.6495
architecture planning interiors management

LICENSED ARCHITECT SEAN TOWNE No. C 14749 REN. SEPT. 2006 STATE OF CALIFORNIA

ADDENDUM #2
DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART SHEET: LFI-00
SHEET: LFR-2

ADDENDUM
DSA FILE # 7-C1
DSA APPL.# 01-106226

LF4.00

SEE DETAIL 1,2/LF5.00 FOR FIXTURE SPACING

## LABORATORY SERVICE FITTING SCHEDULE

| ABBREV. | NOTES | MOUNTING | DETAIL |
|---|---|---|---|
| ICW | COLD WATER FITTING | DECK | 2/LF5.01 |
| | | HOOD | 5/LF5.00 |
| | | DECK (ADA) | 9/LF5.01 |
| IHWICW | HOT WATER/COLD WATER MIXING VALVE | DECK | 8/LF5.00 |
| | | DECK (ADA) | 9/LF5.00 |
| | | DECK (SPRAY) | 8/LF5.01 |
| DI | PURE WATER FITTING | DECK | 3/LF5.01 |
| | (2) | WALL | 7/LF5.01 |
| DH | DRENCH HOSE - SINGLE HEAD | DECK | 4/LF5.00 |
| LA, LG, LV & BA | LABORATORY AIR, LABORATORY VACUUM, LABORATORY GAS, BLOWER AIR FITTING | DECK | 1/LF5.01 |
| | | HOOD | 6,7/LF5.00 |
| | | HOOD (ADA) | 7/LF5.00 |

NOTE: SERVICES TO AUTOCLAVE & UNDERCOUNTER WASHER BY DIVISION 15 LABORATORY PLUMBING. (2)

LABORATORY FURNISHINGS NOTES & LEGEND
SCALE: NONE

SCIENCE BUILDING
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LICENSED ARCHITECT SEAN TOWNE No. C 14749 REN. SEPT. 2006 STATE OF CALIFORNIA

ADDENDUM #2
DATE: 04/19/05
DSA NO. 01-106226
THIS REVISES IN PART SHEET: LFI-00
SHEET: LFR-3

## S. J. AMOROSO
**Request For Information/Clarification**

**DSA FILE NO. 7-C1**
**DSA APPL. No. 01-106226**

To: tBP/Architecture
1000 Burnett Ave, Suite 140
Concord, CA 94520

Attn: Celia Chiang, Tom Beckett
Fax: 925-246-6495

Subj.: Epoxy Sink Not Available

Reference (dwg, spec.): 3/LF2-1a

Reply Requested By: 2/8/07

Project: LOS MEDANOS COLLEGE SCIENCE BUILDING
Contra Costa Community College District

tBP p/n: 20247.00

RFI No: **474**
Subcontractor RFI: DDI 22

**INFORMATION REQUESTED:** Date: 2/1/07

Please note the attached Dow Diversified RFI No. 22 regarding the Epoxy SK9 Sink in Room 236. That sink specified is no made to the size requested. Please advise if the attached product data for a closely sized sink will be acceptable.

**SUGGESTED SOLUTION:**
Cost Impact: ☐ Schedule Impact: ☐ days By: Justin Warren

*RESPONSE:* DATE:

Depth of sink is critical factor for this service sink (glassware washing). No exception taken to changing the length and width per above, but depth must be 16"-18" minimum. 1

Tom Beckett / tBP Architecture

2/9/07

RFI # 000
Page 1

Dow Diversified, Inc.

## REQUEST FOR INFORMATION
***Los Medanos College Science Building, 2352K***

*Proj RFI#:*
*DDI Ref#:* 22

**To:** Mark Delgado **Fax:** 925-427-7570
**Subject:** Epoxy Sink Not Available
**Spec:** 11602 **Drawings:** 3/LF2-1a & DDI sheet 194/82 **Room:** 236

**REQUEST:**
The LF drawings call out an epoxy SK9 sink to 40" X 18" X 18". There is only 1 and it is in room 236.

The manufacturer has come back to me and said that they do not have a sink that large. In addition, with this sink sitting in front of a pipe chase there is concern with having enough room for the service fixtures.

The closest size available that will also allow for the service fixtures is the Lab Tops U63 which is 31" X 17" X 10". Please see the attached product data.

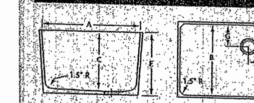
**SUGGESTION:**
Please approve the U63 as the largest available size that will fit in the space available.

**PRIORITY:** ASAP
**DUE DATE:** 2/7/2007
**BY:** Ben Kemper **DATE:** 1/31/2007

**Response By:**
**Response Date:**
**RESPONSE:**

## LaboratoryTops, Inc.®

Product Dimensions




Standard Undermount Sinks

| Sink No. | Outlet | Wgt (lbs) | Inside A | Inside B | Inside C | Outside F | Outlet G | Outlet H |
|---|---|---|---|---|---|---|---|---|
| U03C | Center | 17 | 12.0 | 8.0 | 6.0 | 6.8 | 4.0 | 6.0 |
| U04C | Center | 18 | 12.0 | 8.0 | 7.0 | 7.8 | 3.0 | 6.0 |
| U05C | Center | 22 | 14.0 | 10.0 | 6.0 | 6.8 | 5.0 | 7.0 |
| U05E | End | 22 | 14.0 | 10.0 | 6.0 | 6.8 | 5.0 | 3.5 |
| U08C | Center | 25 | 12.0 | 12.0 | 8.0 | 8.8 | 6.0 | 6.0 |
| U10C | Center | 22 | 16.0 | 8.0 | 7.0 | 7.8 | 4.0 | 8.0 |
| U10E | End | 22 | 16.0 | 8.0 | 7.0 | 7.8 | 4.0 | 3.5 |
| U15C | Center | 34 | 16.0 | 12.0 | 8.0 | 8.8 | 6.0 | 8.0 |
| U15E | End | 34 | 16.0 | 12.0 | 8.0 | 8.8 | 6.0 | 4.5 |
| U20 | Corner | 39 | 16.0 | 16.0 | 7.5 | 8.3 | 12.0 | 4.0 |
| U22C | Center | 22 | 18.0 | 6.5 | 6.0 | 6.8 | 3.3 | 9.0 |
| U24C | Center | 38 | 18.0 | 14.0 | 10.5 | 11.3 | 7.0 | 9.0 |
| U25 | Corner | 40 | 18.0 | 15.0 | 8.0 | 8.8 | 3.5 | 3.5 |
| U30 | Corner | 49 | 18.0 | 15.0 | 11.0 | 11.8 | 3.5 | 3.5 |
| U30C | Center | 49 | 18.0 | 15.0 | 11.0 | 11.8 | 7.5 | 9.0 |
| U33C | Center | 64 | 21.0 | 17.0 | 10.0 | 10.8 | 8.6 | 10.5 |
| U33E | End | 64 | 21.0 | 17.0 | 10.0 | 10.8 | 8.6 | 4.5 |
| U35E | End | 61 | 21.0 | 18.0 | 10.0 | 10.8 | 9.0 | 4.5 |
| U40 | Corner | 47 | 21.3 | 15.5 | 7.0 | 7.8 | 4.0 | 4.0 |
| U45 | Corner | 64 | 21.5 | 15.5 | 11.0 | 11.8 | 4.0 | 4.0 |
| U49 | Corner | 68 | 22.0 | 14.5 | 10.6 | 11.5 | 3.5 | 4.0 |
| U50C | Center | 54 | 24.0 | 16.0 | 8.0 | 8.8 | 8.0 | 12.0 |
| U50E | End | 54 | 23.8 | 16.0 | 8.0 | 8.8 | 8.0 | 4.0 |
| U51E | End | 59 | 24.0 | 16.0 | 10.0 | 10.8 | 8.0 | 4.5 |
| U52E | End | 77 | 23.6 | 17.6 | 10.8 | 11.6 | 9.0 | 4.0 |
| U53E | End | 85 | 24.4 | 18.4 | 16.8 | 17.6 | 9.3 | 4.3 |
| U55 | Corner | 60 | 25.0 | 15.0 | 10.0 | 10.8 | 3.5 | 3.5 |
| U56C | Center | 76 | 24.0 | 16.0 | 12.0 | 12.8 | 8.0 | 12.0 |
| U59E | End | 65 | 28.0 | 15.0 | 12.0 | 12.8 | 7.5 | 11.5 |
| U60E | End | 83 | 28.0 | 20.0 | 8.8 | 9.6 | 6.5 | 14.0 |
| U63E | End | 75 | 31.0 | 17.0 | 10.0 | 10.8 | 8.5 | 4.0 |
| U62C | Center | 100 | 35.5 | 19.6 | 10.0 | 10.8 | 19.8 | 17.8 |

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Los Medanos College
4CD Proj.# : L-SGS-B-23-SC
**Science Building**