

BHM Construction, LLC.

License # 900404

221 Gateway Rd West, Suite 405

Napa, Ca. 94558

(707) 643-4580-Tel (707) 643-4581-Fax

**Project: MLK Nevada Campus Project – Increment #2 & 3
Bid Package**

BID CLARIFICATION #9

- 1. See attached Architect's updated Sheet A9.0.2.-3 for removing new Ceramic Tile for Rooms M208 & M209 Building M.**
- 2. See attached Pre-bid RFI #11 Telecom, Cabling & Pathways**
- 3. See attached Pre-bid RFI #12 Fire Alarm C.P.**
- 4. See attached Pre-bid RFI #18 Acoustical Drywall Substitution Question.**

REQUEST FOR INFORMATION (PB)

PROJECT NAME: MLK Nevada Campus Reconstruction Project Increment #2 & 3		JOB NO. 226
		Pre Bid RFI NO. 011
TO: Kevin Marer JK Architecture Engineering. 300 Orchard City Drive, Suite 140 Campbell, CA 95008 CC: Jason Cave Greystone West Company	FROM: BHM Construction, Inc. 221 Gateway Road W, Ste.405, Napa, CA 94558	
SUBJECT: Telecom, Cabling, & Pathways		
CATEGORY: Communications / Equipment Rooms and Enclosures *NEED ADDITIONAL INFORMATION		
Spec Section: 27 11 00 27 15 00	PARAGRAPH NO.:	DRAWING NO:T0.0.3-1 T0.0.7-2, T0.0.9-2
DETAIL:		
<p>Attached is a list of Telecom Communication & Equipment Pre-Bid questions.</p> <ol style="list-style-type: none"> 1: Spec 27 15 00 is calling out to use Cat6A cable for all cable but on drawing T0.0.7-2 Network system one-line is calling out for data cable to be Cat6A and the public address and camera cabling to be Cat6. Can you please confirm what type of cable we are to use for all symbols? 2: Are we to provide and install copper patch cables? (2) patch cables for every cable installed. (1) for station side and (1) for IDF side? Please confirm? 3: Are we do provide and install fiber patch cables? (2) duplex fiber jumpers for every pair of fibers installed? (1) fiber jumper at each end of fiber? 4: Elevation drawings T0.0.9-2 do not show vertical managers, but they are listed in the equipment schedule chart above them. Do we need to provide and install vertical managers for all racks? 5: Does the SCS contractor provide and install the keyboard/Monitor listed on T0.0.9-2, diagram 1 equipment schedule 8? 6: Do the wall mount swing out racks require a fan kit? If so, please provide part number. 7: Spec section 27 11 00, appendix A has different part numbers listed for IDF buildouts then the ones on drawing T0.0.9-2 in the equipment schedules. Which is correct? 8: INC 1 Telecom site drawing T0.0.3-1 does not completely show the conduit pathways to buildings K and M. Can you please provide conduit pathways to these buildings so we can account for lengths of fiber backbone. 9: INC 3 – Please clarify where bldg. K IDF is located and how do cables get from the IDF side to the other side as this bldg. is detached? Do we need to use OSP cable? Is bldg. K IDF rack existing to remain or does it require a new IDF buildout? If new IDF buildout is required, please provide details of what is required. Bldg K cameras show existing to stay. How will these cables be handled, and will they have to be re-terminated or should they be new? 		

<input type="checkbox"/> COST IMPACT: TBD \$ EST. <input type="checkbox"/> TIME IMPACT: _EST.TBD		
CONTRACTOR SIGNATURE:	DATE ISSUED: 3.26.24	DATE REQUIRED:03/29/24
RESPONSE:		
<input type="checkbox"/> ATTACHMENTS:		
ARCHITECT SIGNATURE:		DATE:

LP Responses per the attached Telecom Communication & Equipment Pre-Bid questions:

1. Please provide Category 6A cabling for all network device drops.
2. Yes, please provide (1) slim line patch cable and (1) 15' equipment cable for each permanent drop installed.
3. Yes, provide required fiber-optic patch cables for connections from LIU / Core-Switch / Switch hardware.
4. Yes, please provide vertical wire managers as specified on equipment schedules.
5. Please remove this item from scope of work. It will be owner furnished/installed if required.
6. No, the Middle Atlantic racks do not require fan kits.
7. Please provide materials and equipment as noted on construction drawings T-sheets.
8. Please see attached as-built E1.0 and T0.0.3-1 for existing conduit pathways to buildings M and K.
- 9a. Please see attached as-built E1.0 for existing 3 ea. 1.5" and 4 ea. 2" conduit runs from existing IDF at building M to building K.
- 9b. Please reuse exiting rack located at building K IDF/Electrical room..
- 9c. Please provide new Category 6A cabling for all network device drops.

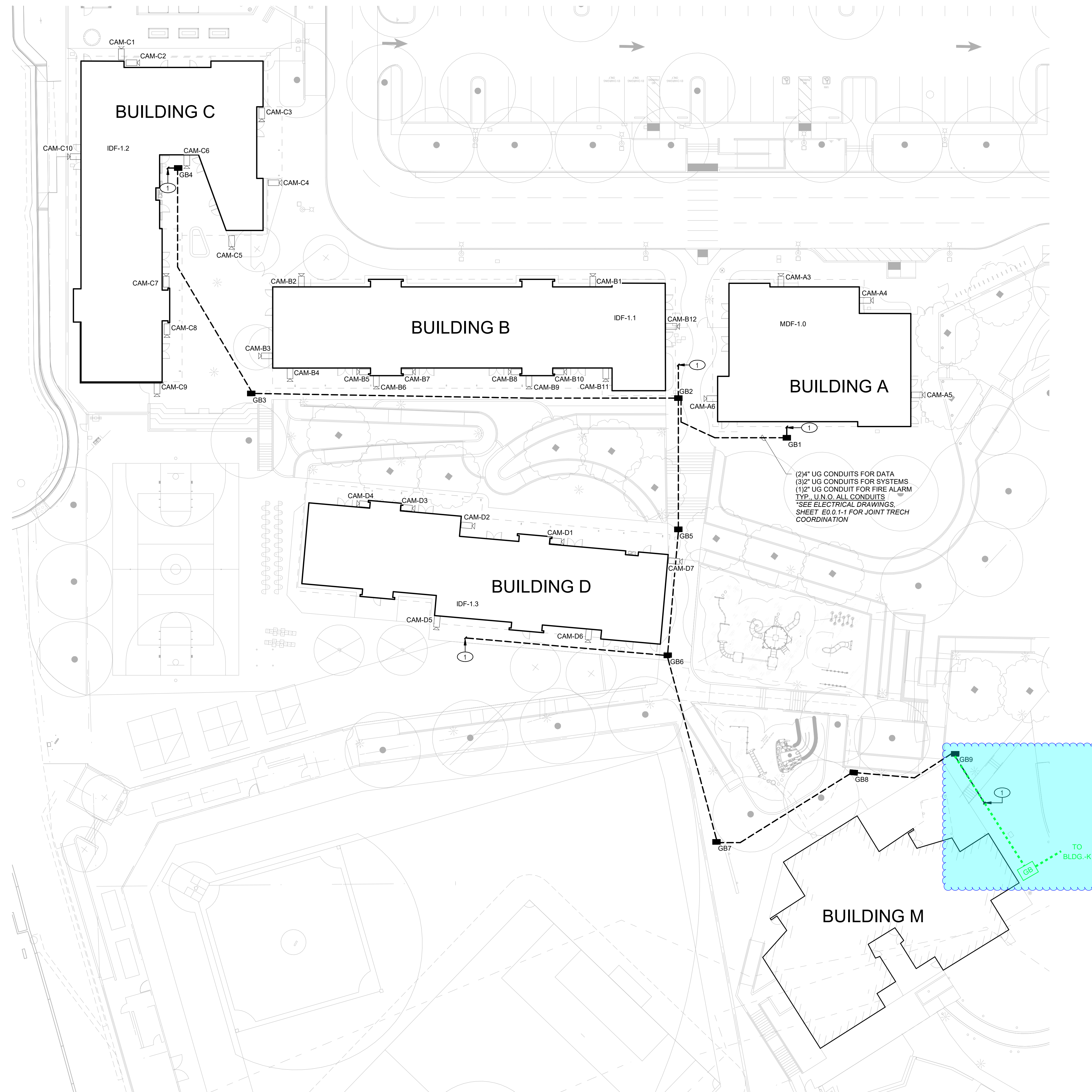
Thank you,
J. Zamora
2024-04-01

TECHNOLOGY SITE PLAN GENERAL SHEET NOTE

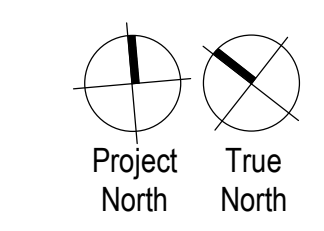
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.
2. CONTRACTOR SHALL UTILIZE 3-DIMENSION TECHNOLOGY REVIT BIM MODEL FOR TRADES COORDINATION IN CONSTRUCTION. SYSTEMS INSTALLATION SHALL BE IN GENERAL PLACEMENT OF DESIGN AS SHOWN ON APPROVED CONSTRUCTION DRAWINGS AND/OR REVIT BIM MODELS.
3. ALL CONDUITS, AND BOXES SHOWN ON CONSTRUCTION DOCUMENTS IS TO BE NEW.
4. ALL CONDUITS SHALL BE PROVIDED WITH PULL STRING AND CONDUIT SPACERS PER DRAWING DETAILS.
5. PROVIDE MINIMUM 6'-0" OR MAXIMUM 8'-0" OF SERVICE LOOP IN ALL TECHNOLOGY GROUND VAULTS, AND PULL BOXES.

KEY NOTES

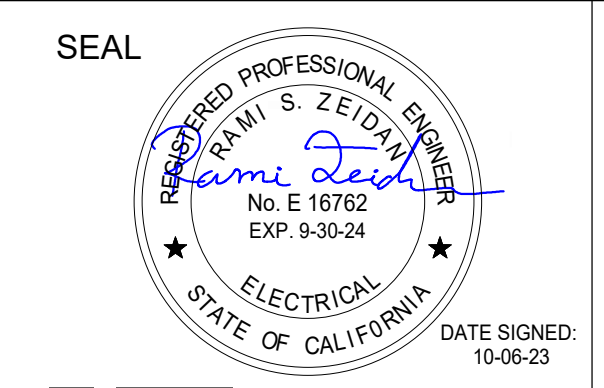
- 1 REFER TO INCREMENT 2 SET OF PLANS FOR UNDERGROUND PATHWAY CONTINUATION.



1 TECHNOLOGY SITE PLAN
 SCALE: 1" = 20'-0"



DSA APP. NO. 01-121006



LP CONSULTING ENGINEERS
 1209 Pleasant Grove Blvd.
 Roseville, CA 95678
 p 916-771-0778
 www.lpenginers.com
 Job #: 22-2123

INC 01
 Drawing Title
TECHNOLOGY SITE PLAN

NO.	DATE	ISSUE

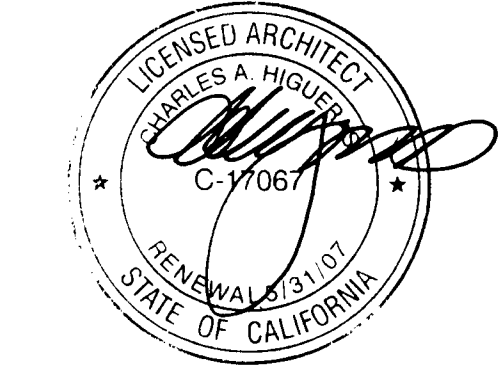
Project
**SAUSALITO MARIN CITY SCHOOL DISTRICT
 DR. MARTIN LUTHER KING JR.
 ACADEMY**
 SAUSALITO, CA 94965

Drawn By
 JZ / RL
 Checked By
 LPCE
 Project No.
 22-180
 ©Date
 11/29/23
 DRAWING NO.
T0.0.3-1



560 14TH STREET
OAKLAND, CA 94612
TELEPHONE (510)763-1313

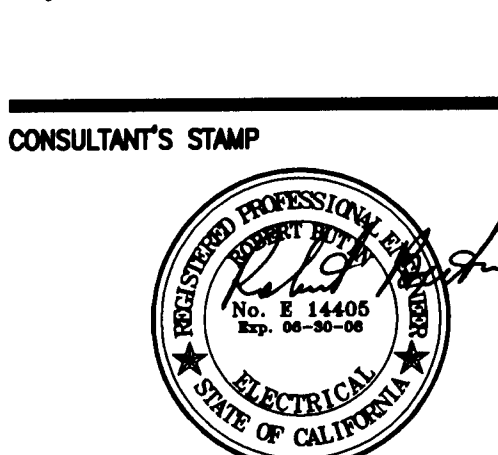
ARCHITECT'S STAMP



CONSULTANT

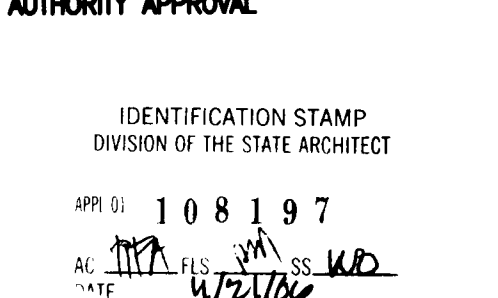


CONSULTANT'S STAMP



Date Signed 10.30.06

AUTHORITY APPROVAL



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APP NO: 108197
AL: [Signature] EX: [Signature] SS: [Signature] MD:
DATE: 10/27/06

BAYSIDE ELEMENTARY SCHOOL K-POD PROJECT
630 Nevada Street
Sausalito, CA 94965
Sausalito Marin City School District

**ELECTRICAL
SITE PLAN**

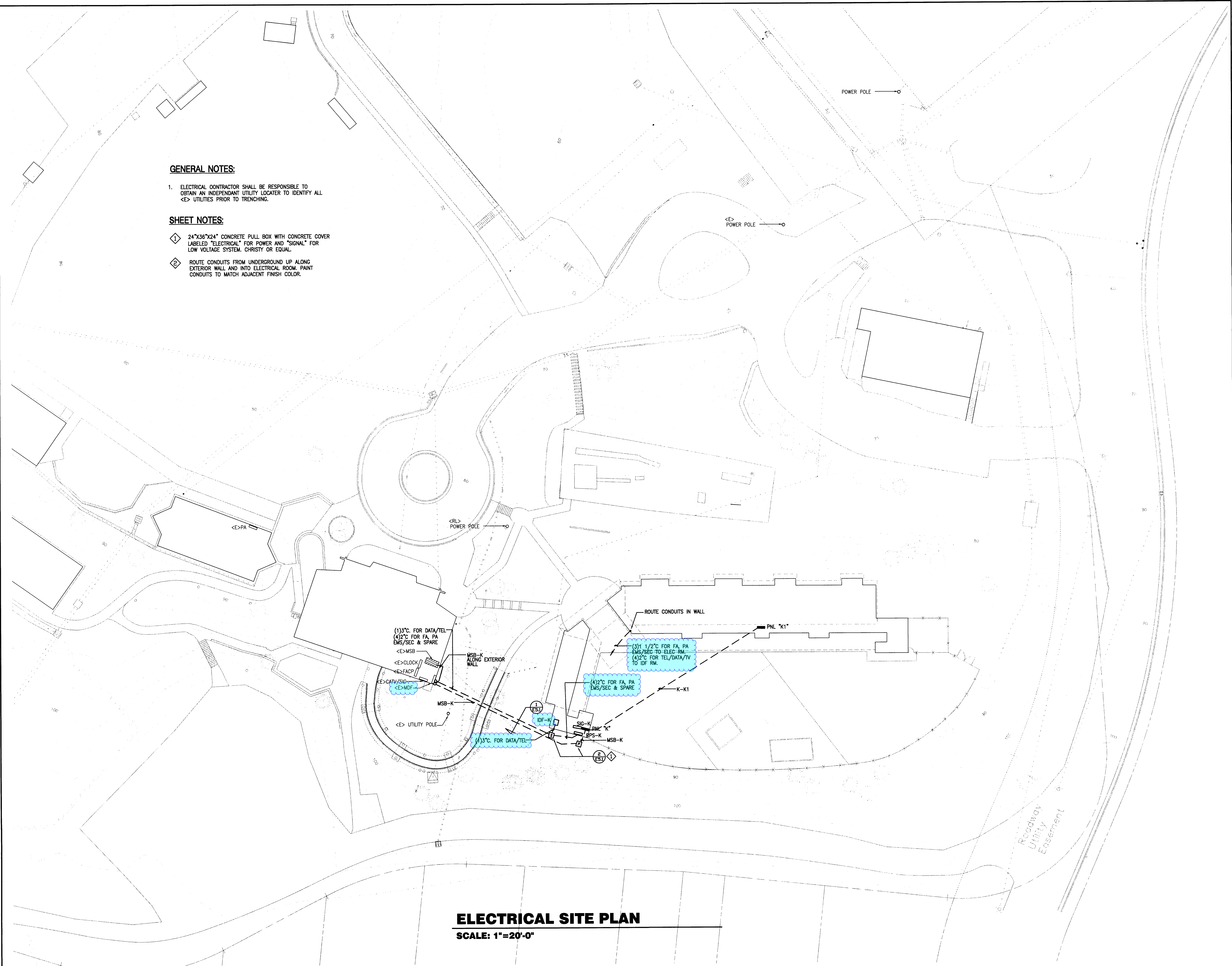
DATE	ISSUE	REV.
7/14/06	DSA	
11/01/06	DSA APPROVAL	

DRAWN BY: CHECKED BY:

E1.0

JOB NO: 05014

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ELECTRICAL SITE PLAN
SCALE: 1"=20'-0"

REQUEST FOR INFORMATION (PB)

PROJECT NAME: MLK Nevada Campus Reconstruction Project Increment #2 & 3	JOB NO. 226
	Pre Bid RFI NO. 012

TO: Kevin Marer JK Architecture Engineering. 300 Orchard City Drive, Suite 140 Campbell, CA 95008 CC: Jason Cave Greystone West Company	FROM: BHM Construction, Inc. 221 Gateway Road W, Ste.405, Napa, CA 94558
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SUBJECT: Fire Alarm Control Panels

CATEGORY: Fire Detection & Alarm
*NEED ADDITIONAL INFORMATION

Spec Section: 28 46 00	PARAGRAPH NO.:	DRAWING NO:FA1.0.1-2 FA1.0.2-2	DETAIL:
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Attached is a list of Fire Alarm Pre-Bid questions.

- 1) Both Increment #2 and #3 show new Silent Knight 6820-EVS panels. We are assuming that these panels will need to be networked together?
- 2) We do not see any amplifiers for the speaker circuits on any of the plan pages. These are essential to the voice evacuation system.
- 3) Would we need a 100W amplifier at each FACP? (Building A and 1st Floor of Building M)

Please advise.

1. Yes, both new Silent Knight 6820 EVS panels shall be Networked together.
2. EVS-100W Amp is shown on both fire alarm Inc2 and Inc3 packages. Calculations and appliance addressing also demonstrates AMP.
- 3 Yes. Both Panels are provided with 100W AMP per legend on cover sheets.

FIRE ALARM DEVICE LEGEND **INC 2**

SYMBOL	QTY	MANUFACTURER	PART	DESCRIPTION	CSFM
[E2C]	1	SILENT KNIGHT	6820-EVS (SK)	FIRE ALARM CONTROL PANEL, ADDRESSABLE W/ EMERGENCY VOICE SYSTEM, SK PROTOCOL	7165-0559-0500
	1	SILENT KNIGHT	6815 SK PROTOCOL	SIGNALING LINE CIRCUIT EXPANDER, 159 PTS (SK)	7165-0559-0500
	1	SILENT KNIGHT	6820-EVS (SK) MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD SK PROTOCOL	7165-0559-0500
	1	SILENT KNIGHT	EVS-100W MAIN BOARD	PANEL COMPONENT, INTELLIGENT 50/100 WATT AMPLIFIER	7165-0559-0500
[NAC]	1	SILENT KNIGHT	SK-PS10	10.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE, METAL ENCLOSURE	7315-0559-0522

FIRE ALARM DEVICE LEGEND **INC 3**

SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION	CSFM
[E2C]	1	SILENT KNIGHT	6820-EVS (SK)	FIRE ALARM CONTROL PANEL, ADDRESSABLE W/ EMERGENCY VOICE SYSTEM, SK PROTOCOL	7165-0559-0500
	1	SILENT KNIGHT	6815 SK PROTOCOL	SIGNALING LINE CIRCUIT EXPANDER, 159 PTS (SK)	7165-0559-0500
	1	SILENT KNIGHT	EVS-100W MAIN BOARD	PANEL COMPONENT, INTELLIGENT 50/100 WATT AMPLIFIER	7165-0559-0500
	1	SILENT KNIGHT	6820-EVS (SK) MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD SK PROTOCOL	7165-0559-0500

COST IMPACT: TBD \$ EST. TIME IMPACT: _EST.TBD

CONTRACTOR SIGNATURE:	DATE ISSUED: 3.26.24	DATE REQUIRED:03/29/24
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RESPONSE:

ATTACHMENTS:

ARCHITECT
SIGNATURE:

DATE:

REQUEST FOR INFORMATION (PB)

PROJECT NAME: MLK Nevada Campus Reconstruction Project Increment #2 & 3		JOB NO. 226
		Pre Bid RFI NO. 018
TO: Kevin Marer JK Architecture Engineering. 300 Orchard City Drive, Suite 140 Campbell, CA 95008 CC: Jason Cave Greystone West Company	FROM: BHM Construction, Inc. 221 Gateway Road W, Ste.405, Napa, CA 94558	
SUBJECT: Substitute Acoustical Gypsum Board		
CATEGORY: Gypsum Board *NEED ADDITIONAL INFORMATION		
Spec Section: 09 21 16	PARAGRAPH NO.:	DRAWING NO:
		DETAIL:
<p>DISCRIPTION:</p> <p>I'm being told the material specified is hard to acquire, an alternative has been suggested below. Per SECTION 09 21 16 GYPSUM BOARD PART 2 - PRODUCTS 5. Acoustic a. Equal to Certainteed, Silent FX, Quick Cut Acoustical Gyp. Board b. c. 5/8" thick.</p> <p>Can the above material be replaced with QUIETROCK® EZ-SNAP®?</p> <p>Please advise.</p>		
<input type="checkbox"/> COST IMPACT: TBD \$ EST. <input type="checkbox"/> TIME IMPACT: _EST.TBD		
CONTRACTOR SIGNATURE:	DATE ISSUED: 3.28.24	DATE REQUIRED:04/01/24

RESPONSE:

Our basis of design is to meet an STC rating of 50+ on demising walls for the adjoining spaces described in Table 3 below from Bollard Acoustics.

Attached is a comparison between the two products we have put together for convenience to support the bidding process. To meet the equivalent STC requirements utilizing QuietRock EZ-SNAP, some walls may need to have acoustic gyp applied on two sides of a wall compared to what the drawings may currently only call out as acoustic gyp on one side of the wall. Since our drawings are based on the SilentFX Quick Cut product data and testing reports, this difference is not actively tracked and should be considered when bidding.

In the future, when submitting proposed substitutions a product comparison should be provided.

ATTACHMENTS: *product data sheet comparison*

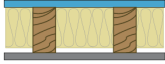
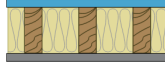






ARCHITECT
SIGNATURE:



DATE: 04/01/2024

Adjoining Spaces	Recommended STC Rating	Proposed Assembly	Predicted STC Rating
Classroom - Classroom	50	AW5.1s	50+
Classroom - Hallway	50	AW5.1s	50+
Offices - Offices	50	AW5.1s	50+
Offices - Hallway	50	AW5.1s	50+
Conference - Hallway	50	AW5.1s	50+

Source: JK Architecture / Engineering and BAC using Insul 9.0.20

24" o.c.	16" o.c.	Description
PGD-W-646-24 STC 47 NOAL 18-0530 - 24" o.c.  Fire: 1 Hour - UL U309 Thickness: 4-3/4" Approx weight: 5.8 lb/ft ²	PGD-W-646-16 STC 41 NOAL 17-0730 - 16" o.c.  Fire: 1 Hour - UL U305 Thickness: 4-3/4" Approx weight: 6.3 lb/ft ²	<ul style="list-style-type: none">  2" Type W drywall screws 8" o.c. (for fire: U309 & U305 - minimum 1-7/8" drywall screws spaced 7" o.c.).  One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.  2 x 4 wood studs 24" o.c. or 16" o.c.  3-1/2", R-13 glass fiber insulation friction fit into stud cavity.  One layer 5/8" Type X (FLAME CURB® Plus, ABUSE CURB®, PABCO® Impact Resistant, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.  2" Type W drywall screws 7" o.c. (for fire: U309 & U305 - minimum 1-7/8" drywall screws).
Load Bearing Vertical joints staggered on opposite sides		

5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

16" o.c. - 2" x 4" - 1 hr fire rating

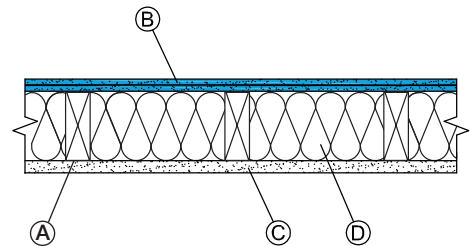
- A** Nominal 2"x4" wood studs 16" o.c.
- ONE SIDE**
- B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c.
- OPPOSITE SIDE**
- C** 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.
- D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

STC RATING

40
NOAL 21-0658

FIRE RATING

1 hr.
UL/cUL U305



NOTE: SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.

5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

A Nominal 2"x4" wood studs 16" o.c.

ONE SIDE

B 1/2" plywood applied with 1-7/8" nails 6" o.c. perimeter and 12" o.c. field

C 5/8" Type X applied with 2-3/8" nails 7" o.c.

OPPOSITE SIDE

D 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

E 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

STC RATING

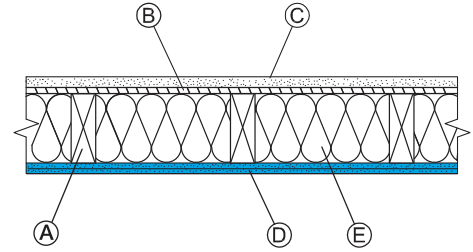
45

NOAL 18-0315

FIRE RATING

1 hr.

UL/cUL U305



A Nominal 2"x4" wood studs 16" o.c.

ONE SIDE

B 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c.

OPPOSITE SIDE

C 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c. All joints staggered.

D 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

STC RATING

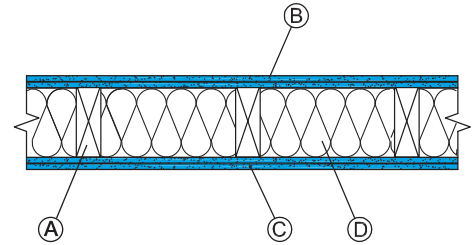
45


OL 17-0219

FIRE RATING

1 hr.

UL/cUL U305



Design Details	
PGD-W-574-16	<ul style="list-style-type: none"> 2" Type W drywall screws 8" o.c. (for fire 1-7/8" Type W drywall screws 7" o.c.).
<p>STC 45 NOAL 20-0412 - 16" o.c.</p> 	<ul style="list-style-type: none"> One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.
<p>Fire: 1 Hour - UL U305 GA WP 3377</p> <p>Thickness: 4-3/4" Approx weight: 6.8 lb/ft²</p>	<ul style="list-style-type: none"> 2 x 4 wood studs 16" o.c. 3-1/2" R-13 glass fiber insulation friction fit into stud cavity. One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.
<p>Load Bearing Vertical joints staggered on opposite sides</p>	<ul style="list-style-type: none"> *Type W drywall screws 8" o.c. (for fire 1-7/8" Type W drywall screws 7" o.c.).

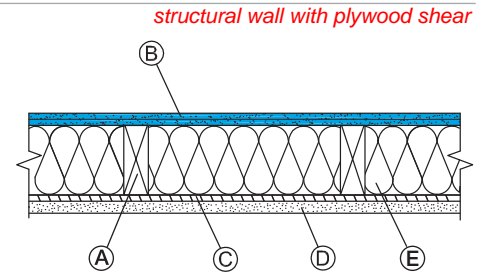
5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

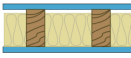
24" o.c. - 2" x 4" - 1 hr fire rating

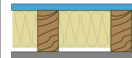
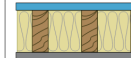
- A** Nominal 2"x4" wood studs 24" o.c.
ONE SIDE
B 5/8" SilentFX QuickCut applied with 1-1/4" type W screws 8" o.c.
OPPOSITE SIDE
C 1/2" plywood applied with 1-7/8" nails 6" o.c. perimeter and 12" o.c. in the field
D 5/8" CertainTeed® Type X applied with 2-3/8" nails 7" o.c. All joints staggered.
E 3-1/2" CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
51
NOAL 18-0316

FIRE RATING
1 hr.
UL/cUL U309
ULC W313



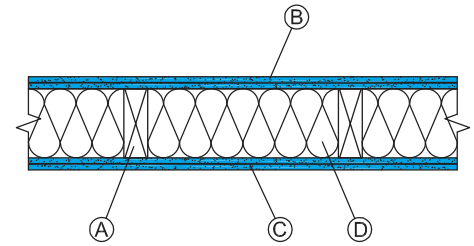
24" o.c.	16" o.c.	Description
PGD-W-574-24 STC 51 NOAL 18-0531 - 24" o.c.  Fire: 1 Hour - UL U309 Thickness: 4-3/4" Approx weight: 6.3 lb/ft ²		<ul style="list-style-type: none"> 2" Type W drywall screws 8" o.c. (for fire 1-7/8" Type W drywall screws 7" o.c.). One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically. 2 x 4 wood studs 24" o.c. 3-1/2", R-13 glass fiber insulation friction fit into stud cavity. One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically. 2" Type W drywall screws 8" o.c. (for fire 1-7/8" Type W drywall screws 7" o.c.).
Load Bearing Vertical joints staggered on opposite sides		

24" o.c.	16" o.c.	Description
PGD-W-646-24 STC 47 NOAL 18-0530 - 24" o.c.  no plywood shear Fire: 1 Hour - UL U309 Thickness: 4-3/4" Approx weight: 5.8 lb/ft ²	PGD-W-646-16 STC 41 NOAL 17-0730 - 16" o.c.  Fire: 1 Hour - UL U305 Thickness: 4-3/4" Approx weight: 6.3 lb/ft ²	<ul style="list-style-type: none"> 2" Type W drywall screws 8" o.c. (for fire: U309 & U305 - minimum 1-7/8" drywall screws spaced 7" o.c.). One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically. 2 x 4 wood studs 24" o.c. or 16" o.c. 3-1/2", R-13 glass fiber insulation friction fit into stud cavity. One layer 5/8" Type X (FLAME CURB® + MOLD CURB® Plus, ABUSE CURB® + PABCO® Impact Resistant, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically. 2" Type W drywall screws 7" o.c. (for fire: U309 & U305 - minimum 1-7/8" drywall screws).
Load Bearing Vertical joints staggered on opposite sides		


- A** Nominal 2"x4" wood studs 24" o.c.
ONE SIDE
B 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c.
OPPOSITE SIDE
C 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c.
D 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent

STC RATING
54
OL 15-1110

FIRE RATING
1 hr.
UL/cUL U309
ULC W313



See NOAL 22-0770 Test Report
 for 5/8" QuietRock ES both sides
 of 2x6, 24" o.c.
 (STC 52)

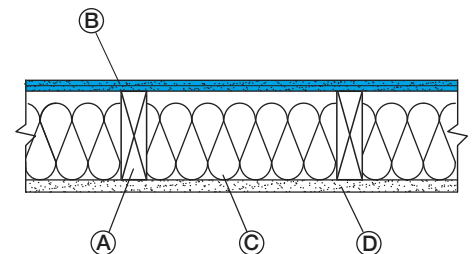
PGD-W6-753-16 STC 42 NOAL 21-0504 - 16" o.c.  Fire: 1 Hour - UL U305 WFC 14041 10/3/2014 Thickness: 6-3/4" Approx weight: 6.9 lb/ft ²	<ul style="list-style-type: none"> 1-7/8" Type 5 drywall screws spaced 7" o.c. One layer 5/8" Type X (FLAME CURB® + MOLD CURB® Plus, ABUSE CURB® + PABCO® Impact Resistant, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically. 2 x 6 wood studs 16" o.c. 6-1/4", R-19 glass fiber insulation friction fit into stud cavity. One layer 5/8" QuietRock® ES or QuietRock® ES MR Type X gypsum panel applied vertically. 1-1/4" Type 5 drywall screws spaced 8" o.c.
Load Bearing Vertical joints staggered on opposite sides	

24" o.c. - 2" x 6" - 1 hr fire rating

- A** Nominal 2"x6" wood studs 24" o.c.
ONE SIDE
B 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c.
C 5" CertainTeed® Fiber Glass insulation or equivalent
OPPOSITE SIDE
D 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 8" o.c.

STC RATING
51
OL 18-1020

FIRE RATING
1 hr.
UL/cUL U309



NOTE: SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.

5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

24" o.c. - 2" x 6" - 1 hr fire rating

A Nominal 2"x6" wood studs 24" o.c.

ONE SIDE

B Face layer 5/8" SilentFX QuickCut Type X applied with 1-5/8" 8" o.c.

C Base layer 1/2" plywood applied with nails 4" o.c.

D 6-1/4" CertainTeed® Fiber Glass Insulation or equivalent

OPPOSITE SIDE

E Face layer 5/8" CertainTeed® Type X applied with 1-5/8" type W screws 8" o.c.

F Base layer 1/2" plywood applied with nails 4" o.c. perimeter and 12" o.c. field

STC RATING

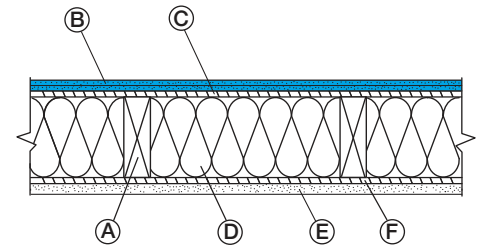
52

NOAL 20-1004

FIRE RATING

1 hr.

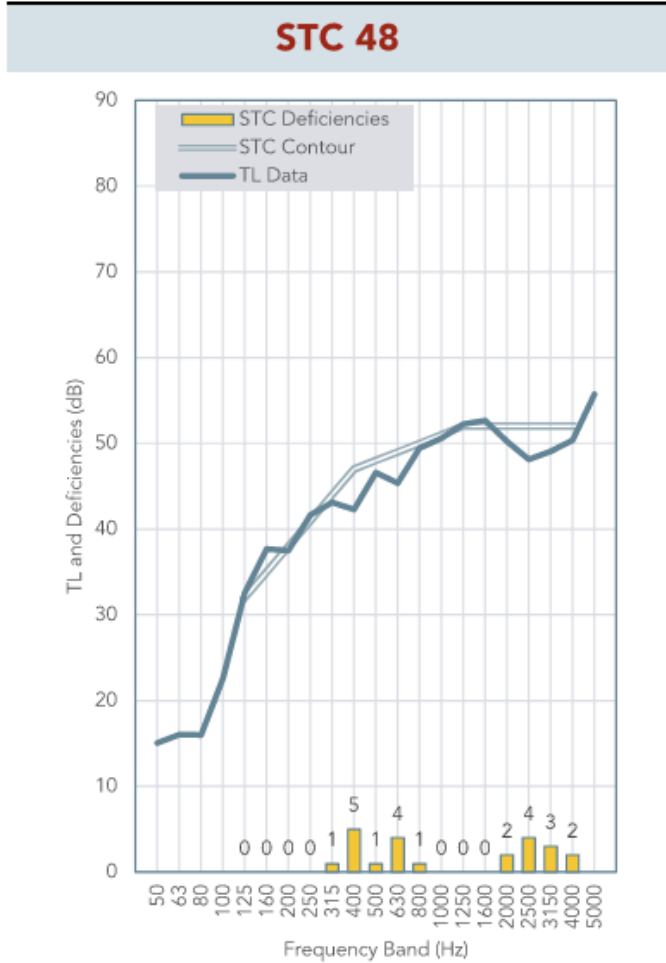
UL/cUL U309



TEST SPONSOR PABCO® Gypsum
 PO Box 364329
 North Las Vegas, NV 89036

REPORT NUMBER NOAL 22-0771
 REPORT DATE November 28, 2022

SECTION A – DATA SUMMARY



FREQUENCY (Hz)	TL (dB)	DEFICIENCIES (dB)
50	15	-
63	16	-
80	16	-
100	23	-
125	33	0
160	38	0
200	38	0
250	42	0
315	43	1
400	42	5
500	47	1
630	45	4
800	49	1
1,000	51	0
1,250	52	0
1,600	53	0
2,000	50	2
2,500	48	4
3,150	49	3
4,000	50	2
5,000	56	-
TOTAL DEFICIENCIES		23

ELEMENTS	FROM SOURCE ROOM SIDE TO RECEIVING ROOM SIDE
Sheathing	5/8" FLAME CURB® Type X (v); #6 x 1-7/8" type W screws spaced 7" OC
Framing	2x6 wood studs spaced 24" OC
Insulation	6-1/4" glass fiber insulation (R19)
Sheathing	5/8" QuietRock® ES Type X (v); #6 x 1-7/8" type W screws spaced 7" OC

See Section C on page 4 and 5 for a full specimen description.



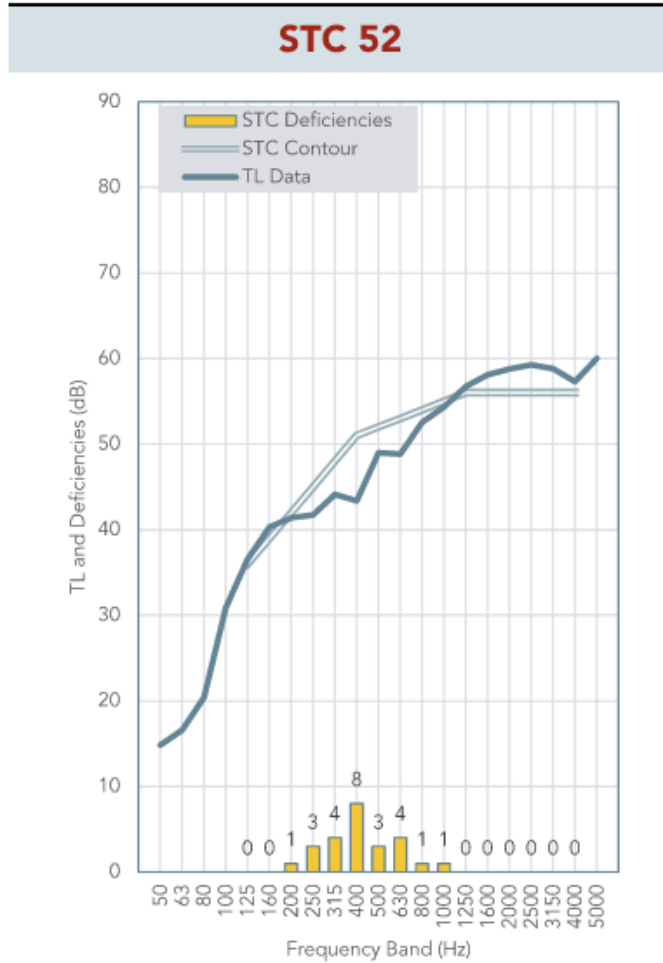
Certificate #4240.01

TEST SPONSOR PABCO® Gypsum
PO Box 364329
North Las Vegas, NV 89036

REPORT NUMBER NOAL 22-0770
REPORT DATE November 28, 2022

Page 2 of 7

SECTION A – DATA SUMMARY



FREQUENCY (Hz)	TL (dB)	DEFICIENCIES (dB)
50	15	-
63	17	-
80	20	-
100	31	-
125	37	0
160	40	0
200	41	1
250	42	3
315	44	4
400	43	8
500	49	3
630	49	4
800	53	1
1,000	54	1
1,250	57	0
1,600	58	0
2,000	59	0
2,500	59	0
3,150	59	0
4,000	57	0
5,000	60	-
TOTAL DEFICIENCIES		25

ELEMENTS	FROM SOURCE ROOM SIDE TO RECEIVING ROOM SIDE
Sheathing	5/8" QuietRock® ES Type X (v); #6 x 1-7/8" type W screws spaced 7" OC
Framing	2x6 wood studs spaced 24" OC
Insulation	6-1/4" glass fiber insulation (R19)
Sheathing	5/8" QuietRock® ES Type X (v); #6 x 1-7/8" type W screws spaced 7" OC

See Section C on page 4 and 5 for a full specimen description.



Certificate #4240.01