CABLE SCHEDULE

DATA CABLE - 4 PAIR TWISTED CABLE. SEE SPECIFICATIONS FOR PRODUCT DATA.

ACRONYMS & DEFINITIONS

#	-	AFTER SYMBOL IS EQUAL TO NUMBER OF CABLES
#"	-	MOUNTING HEIGHT ABOVE FINISHED FLOOR
AFF	-	ABOVE FINISHED FLOOR
B	-	BLANK
B.O.B.	-	BOTTOM OF BOX
C	-	CONDUIT
CAT#	-	DENOTES CATEGORY CABLE
D	-	DEMOLISH
E	-	EXISTING (LIGHT SYMBOLS)
EF	-	ENTRANCE FACILITY (AKA MPOE)
F	-	FUTURE, PROVIDE BLANK FACEPLATE FOR ALL FUTURE OUTLETS
FB#	-	FLOOR BOX NUMBER
HC	-	HORIZONTAL CROSS CONNECT (PREVIOUSLY KNOWN AS IDF)
IC	-	INTERMEDIATE CROSS CONNECT
MC	-	MAIN CROSS CONNECT (PREVIOUSLY KNOWN AS MDF)
MMF	-	MULITI-MODE FIBER OPTIC CABLE
MPOE	-	MAIN POINT OF ENTRY
N	-	NEW (DARK SYMBOLS)
PB	-	PULL BOX
PC	-	PULL CAN
R	-	REMOVE
RMU	-	RACK MOUNT UNITS
SER	-	SOUND EQUIPMENT RACK
SMF	-	SINGLE MODE FIBER OPTIC CABLE
SMR	-	SURFACE MOUNT RACEWAY
TC	-	TERMINAL CABINET
TE	-	TELECOMMUNICATIONS ENCLOSURE
TMGM	-	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
T.O.B.	-	TOP OF BOX
TR	-	TELECOMMUNICATIONS ROOM
UON	-	UNLESS OTHERWISE NOTED
UPS	-	UNINTERRUPTED POWER SUPPLY
W	-	WALL OUTLET MOUNTED @+48" AFF
WAP	-	WIRELESS ACCESS POINT @+96" AFF UON.
WG	-	WIRE GUARD
WP	-	WEATHER PROOF

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY LOW VOLTAGE AND TELECOM EQUIPMENT NECESSARY TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF LOW VOLTAGE AND TELECOM WORK.

B. ALL LOW VOLTAGE AND TELECOM WORK, MATERIALS AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, UNDERWRITERS LABORATORIES, BOARD OF UNDERWRITERS, OSHA, NEMA, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES OF REQUIRED ORDINANCES, AND DELIVER THEM TO THE OWNER'S REPRESENTATIVE.

C. UPON REVIEW OF THE DRAWINGS PRIOR TO SUBMITTING HIS PROPOSAL, THE LOW VOLTAGE AND TELECOM CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES WITHIN THE DRAWINGS AND REQUEST CLARIFICATION CONCERNING THE DISCREPANCIES. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.

D. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. THE CONTRACTOR SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS.

DATA SYMBOL LIST

(#) ▽	DATA OUTLET - PROVIDE ONE (1)1G CUT-IN-RING, RUN CABLES LOOSE IN WALL TO ACCESSIBLE ATTIC SPACE. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS. @+18" T.O.B. UON. INSTALL PER DTL 1/T4.1, 2/T4.1, 3/T4.1
▽	DATA OUTLET FOR WALL MOUNTED WIRELESS ACCESS POINT - PROVIDE ONE (1)1G CUT-IN-RING, RUN CABLES LOOSE IN WALL TO ACCESSIBLE ATTIC SPACE. PROVIDE TWO (1)DATA CABLES/JACKS, FACEPLATE AND 90° MOUNT, PER SPECIFICATIONS. @+96" T.O.B., UON. INSTALL PER DTL 4/T4.1
'A' ▽	DATA OUTLET FOR SUSPENDED CEILING WIRELESS ACCESS POINT - PROVIDE ONE (1)5S BACK BOX ABOVE CEILING TILE. TWO (1)DATA CABLES/JACKS, FACEPLATE AND MOUNT, PER SPECIFICATIONS. SEE SPECIFICATIONS FOR MANUFACTURE DETAILS. CABLES AND JACKS PER SPECIFICATIONS. INSTALL PER DTL 7/T4.1
'B' ▽	DATA OUTLET FOR SUSPENDED CEILING WIRELESS ACCESS POINT - PROVIDE 25 FT OF SERVICE LOOP COILED IN ATTIC SPACE. PROVIDE ONE (1)5S BACK BOX ABOVE CEILING TILE. TWO (1)DATA CABLES/JACKS, FACEPLATE AND MOUNT, PER SPECIFICATIONS. SEE SPECIFICATIONS FOR MANUFACTURE DETAILS. CABLES AND JACKS PER SPECIFICATIONS. INSTALL PER DTL 7/T4.1
'A'	WEATHER PROOF JUNCTION BOX FOR FUTURE DEVICE - MOUNT @ +96" U.O.N. PROVIDE ONE (1) DATA CABLE. ONE (1)5S BACK BOX, ONE (1)1G RING, ONE (1)1-1/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND BLANK FACEPLATE.
'B'	WEATHER PROOF JUNCTION BOX FOR FUTURE DEVICE - MOUNT @ +96" U.O.N. PROVIDE TWO (2) DATA CABLES. ONE (1)5S BACK BOX, ONE (1)1G RING, ONE (1)1-1/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND BLANK FACEPLATE.

PATHWAY SYMBOL LIST

	NEW SURFACE MOUNT RACEWAY - PROVIDE NEW DUAL CHANNEL SURFACE MOUNTED RACEWAY. COORDINATE WITH ELECTRICAL, AS REQUIRED. SEE SPECIFICATIONS FOR PRODUCT DETAILS. INSTALL PER DETAIL 5/T4.1
	NEW SURFACE MOUNT RACEWAY RISER - PROVIDE (N)RISER AS REQUIRED. SEE SPECIFICATIONS FOR PRODUCT DETAILS. INSTALL PER DETAIL 5/T4.1

CABINET/RACK SYMBOL LIST

MDF	EXISTING MDF LOCATION TO REMAIN.
IDF	EXISTING IDF TO REMAIN.
IDF	(N) IDF LOCATION - PROVIDE RACKS/CABINET PER PLANS. INSTALL PER DETAIL 6/T4.1 SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

RACEWAYS

A. WHERE CONDUIT IS USED, 1" MINIMUM CONDUIT SHALL BE PROVIDED U.O.N.

B. EMPTY CONDUIT FOR OUTLETS SHALL BE 1" THIN WALL INSTALLED CONCEALED IN WALLS, TERMINATED AND BUSHED 6" IN ACCESSIBLE HUNG CEILING AND DIRECTED TOWARDS CLOSET. ALL EMPTY CONDUIT SHALL BE FURNISHED WITH A PULL STRING.

C. ALL CONDUITS INSTALLED OUTDOORS SHALL BE RIGID GALVANIZED WITH THREADED CONNECTIONS. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SLABS SHALL BE RIGID PVC WITH A SEPARATE GROUNDING CONDUCTOR AND CONCRETE ENCASEMENT WHERE REQUIRED.

D. FLEXIBLE CONDUIT SHALL BE USED TO MAKE FINAL CONNECTIONS, AND WHERE THE INSTALLATION OF RIGID CONDUIT IS IMPRACTICAL.

E. WIRING SHALL BE INSTALLED CONCEALED IN WALLS, ABOVE CEILING OR BELOW FLOOR WHERE POSSIBLE. INSTALL CONDUIT PARALLEL TO BUILDING LINES. CLEAR ALL OPENINGS, PIPES, DUCTS, STRUCTURAL COMPONENTS, ETC.

F. INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN THREE 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS, AND STEEL SUPPORTS AS REQUIRED.

G. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM AND THOROUGHLY CLEAN CONDUIT ENDS BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN.

SCOPE OF WORK

Contractor will be responsible for all work as described in the "Scope of Work", "Project Documents", "Specifications" and "Drawings". It is the responsibility of the Contractor to bid a complete and operable solution. If the bidder feels that the system described is not complete, the Bidder will must address their specific concerns in writing to the Owner before submitting a quote. The Owner will not be responsible for additional costs incurred by the bidder due to the submission of an incomplete bid.

GENERAL REQUIREMENTS

Contractor will be required to provide applicable State License for the scope of work described herein. The contractor's quote shall include a warranty for all work to be performed for no less than 12 months from the date of completion. Clean up work will be performed daily and will be required in one area before moving to another area to perform work.

The installation schedule pertaining to this bid package must be adhered to by the contractor or liquidated damage will be assessed by the Owner in the amount listed in the agreement. No extension of time will be granted unless written consent from the owner is given. Buildings will be available to the contractor during regular business hours for investigation and prep work. This work shall not disrupt classroom instruction nor interfere with the safety of students and staff.

Contractor's price will include cutover and testing of equipment after 4:00pm and before 7:00am of the next business day. Construction hours and site access may vary due to normal school hours, holidays, and summer break. Contractor will work with the District to make use of non-instructional time that falls within normal school hours such as minimum days, school holidays, and/or professional development days. Any proposed alternate, or equal products and services to be submitted should follow guidelines listed in the RFP and emailed to the listed contact.

Respondents should clearly identify all ELIGIBLE and INELIGIBLE charges in the proposal and Item 21 Bulk Submission Form.

STRUCTURED CABLE

Horizontal Cabling - All new Category 6/6A data cabling shall be installed per the locations shown in the drawings provided. All new cabling systems shall include new termination hardware installed per specifications. All cabling shall be concealed. Contractor to supply and install all necessary pathways: (conduit, raceway, wire basket tray, j-hooks, faceplates, etc.). There will be seven (7) exterior cable locations that will require weatherproofing. All cable management ties installed in MDF/IDFs shall be reusable Velcro based Category 6/6a cable ties. Removal of all unused cabling and connectivity devices. Contractor to label ceiling with cable ID for all above ceiling cable outlet locations. Contractor will schedule all demo with district after cutting over is complete. Contractors can find all horizontal cabling material part numbers in the provided specification within the RFP.

IDF Cabinet – A New 4 post cabinet (CPI - ZA42-00000-71 or equivalent) is to be installed in the Staff Room see drawings for location. All existing equipment shall be moved from the existing IDF in Kinder Room to the (N) IDF Cabinet. Fiber Termination unit shall stay in the existing location and a 100ft Fiber Patch cable to provide is to be installed to the (N) IDF Cabinet.

General Notes:

- The contractor shall field verify all site conditions and all pathways prior to start of work.
- Contractors are to include in their proposal all pathway core hole penetrations through interior walls and exterior walls.
- Contractors will include in their proposal all equipment rentals, all tools, all ladders, trenching, underground boring, GPR locates, dig permits and temporary fence rental needed to complete this project.
- Contractor to field verify all LB type conduit fittings. All fittings 1.5" and larger that will meet the cables bend radius is acceptable to pull fiber. Any LB type conduit fittings smaller than 1.5" will need to be reviewed with the district to have replaced if necessary.

INCLUDED IN THE CONTRACTOR'S SCOPE

The following Items are included in the Contractor's Scope of Work for this Project:

1. New Category 6/6A cables will be installed to each designated location.
2. New Category cables to each designated location from equipment cabinets/racks.
3. New exterior Category 6A cables to each designated location.
4. Two (2) new patch cables will be provided with each Cat6/6A cable outlet installed.
5. All necessary site conduit and pathway systems, including trenching, conduit, and/or pull boxes, stubs, J-hooks, surface mount raceway, and surface mount boxes required for the new cable.
6. Provide Testing, labeling, and warranties as specified in the construction documents.
7. Coordination with district upgrade schedule for demo and removal of replaced cable.
8. Install new 4 post cabinet (CPI - ZA42-00000-71 or equivalent)
9. Move all existing equipment to the new IDF per drawings.
10. Provide 100ft fiber patch cord to the new IDF from the existing Fiber Termination Unit.
11. Coordinate with the district the cutover and removal of the existing IDF.

EXCLUDED FROM THE CONTRACTOR'S SCOPE

The following Items are excluded from the Contractor's Scope of Work for this Project and will be provided by others:

1. District will be responsible for providing sufficient power to equipment cabinets.

END OF SCOPE OF WORK

SHEET INDEX

T0.0	TITLE SHEET (THIS PAGE)
T0.1	SITE PLAN
T1.1	FLOOR PLAN
T4.1	INSTALLATION DETAILS

TWAIN HARTE SCHOOL DISTRICT

STRUCTURED CABLING
TWAIN HARTE SCHOOL
18815 MANZANITA DR.
TWAIN HARTE, CA 95383

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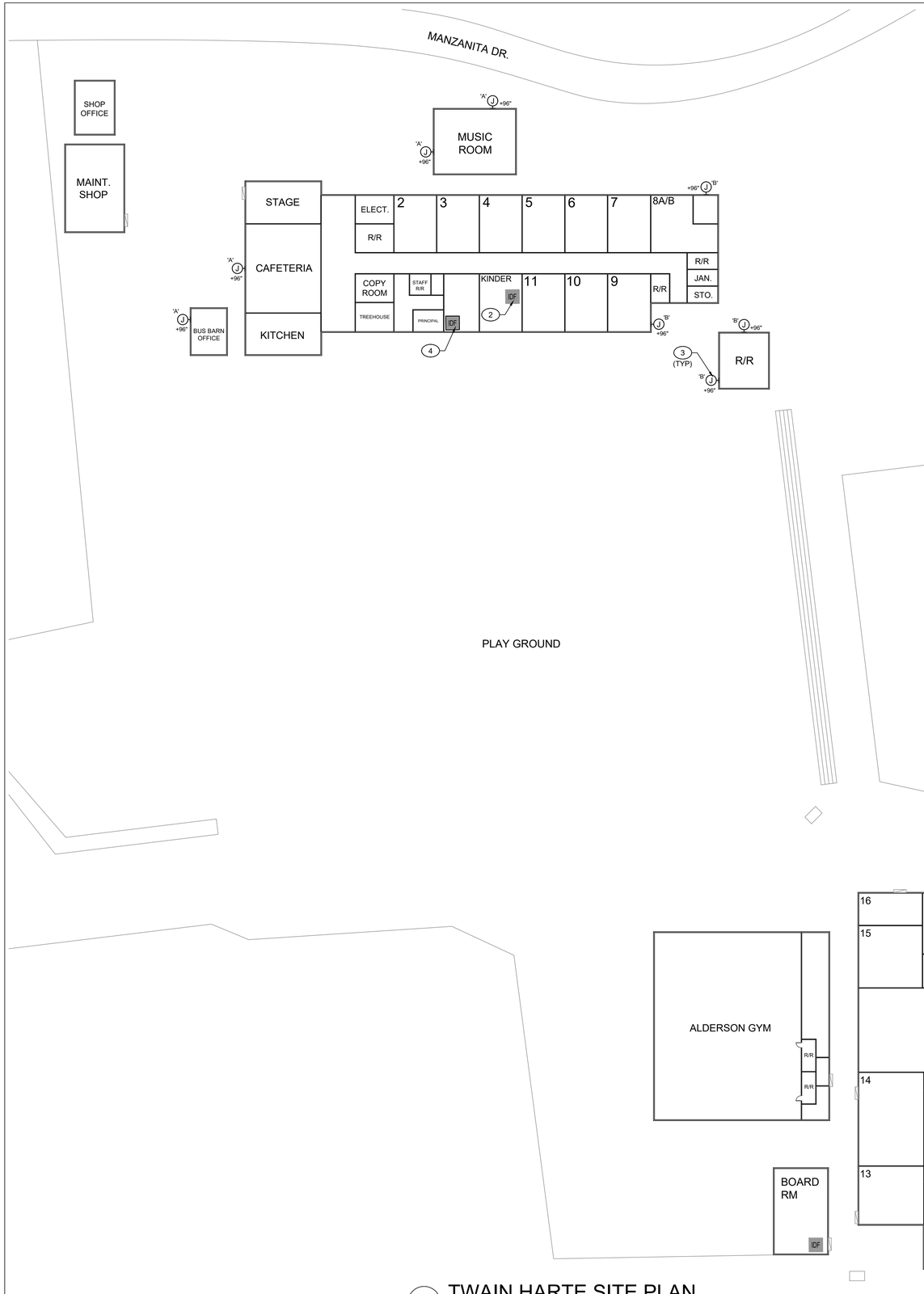
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MARTIN SKIBY
Desg. No. 121571
RCDD

SHEET DESCRIPTION
TITLE
SHEET

SHEET NUMBER
T0.0

ISSUE DATE
XX/XX/2026

PROJECT XXXX-XXXX



1 TWAIN HARTE SITE PLAN
1" = 30'-0"

GENERAL NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. ALL PATHWAYS SHOWN ARE EXISTING AND TO BE REUSED, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. (E) MDF TO REMAIN.
2. (E) IDF TO BE RELOCATED. SEE SHEET T1.1 FOR ADDITIONAL INFORMATION.
3. (N) WEATHER PROOF JUNCTION BOX FOR FUTURE. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
4. RELOCATED IDF. SEE SHEET T1.1 FOR ADDITIONAL INFORMATION.

TWAIN HARTE SCHOOL DISTRICT

STRUCTURED CABLING

TWAIN HARTE SCHOOL

18815 MANZANITA DR. TWAIN HARTE, CA 95383

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SHEET DESCRIPTION

TWAIN
HARTE
SCHOOL
SITE

SHEET NUMBER

T0.1

ISSUE DATE

XX/XX/2026

PROJECT XXXX-XXXX

GENERAL NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

(1) (E) IDF CABINET TO BE RELOCATED TO STAFF ROOM.

(2) (N) IDF LOCATION. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.

(3) (N) DATA OUTLET FOR CEILING MOUNTED WIRELESS ACCESS POINT. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.

(4) (N) DATA OUTLET. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.

(5) (N) SURFACE MOUNT RACEWAY RISER. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.

(6) (N) DATA OUTLET FOR SURFACE MOUNTED WIRELESS ACCESS POINT. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.

(7) (N) SURFACE MOUNTED RACEWAY. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.



1 TWAIN HARTE FLOOR PLAN

3/32"= 1'- 0"

TWAIN HARTE SCHOOL DISTRICT

STRUCTURED CABLING

TWAIN HARTE SCHOOL

18815 MANZANITA DR. TWAIN HARTE, CA 95383

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SHEET DESCRIPTION

TWAIN HARTE FLOOR PLAN

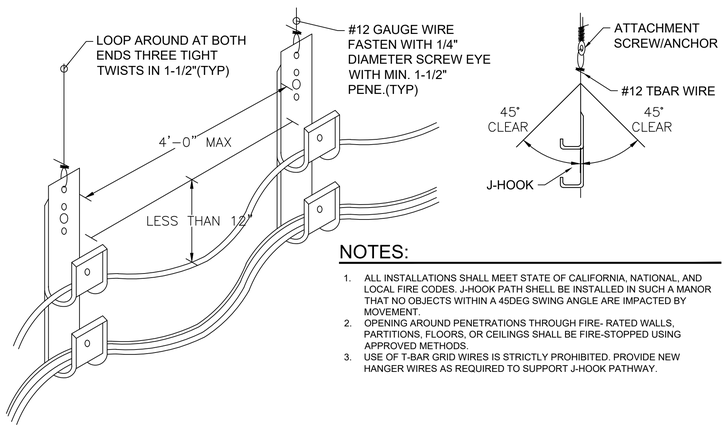
SHEET NUMBER

T1.1

ISSUE DATE

XX/XX/2026

PROJECT XXXX-XXXX

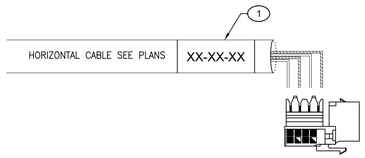


NOTES:

1. ALL INSTALLATIONS SHALL MEET STATE OF CALIFORNIA, NATIONAL, AND LOCAL FIRE CODES. J-HOOK PATH SHELL BE INSTALLED IN SUCH A MANOR THAT NO OBJECTS WITHIN A 45DEG SWING ANGLE ARE IMPACTED BY MOVEMENT.
2. OPENING AROUND PENETRATIONS THROUGH FIRE- RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE-STOPPED USING APPROVED METHODS.
3. USE OF T-BAR GRID WIRES IS STRICTLY PROHIBITED. PROVIDE NEW HANGER WIRES AS REQUIRED TO SUPPORT J-HOOK PATHWAY.

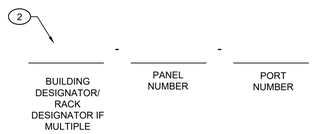
1 J-HOOK PATHWAY DETAIL

NOT TO SCALE



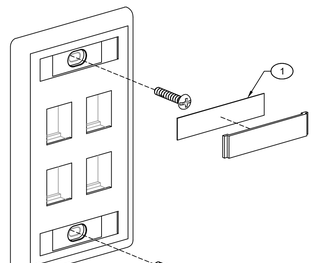
NOTES:

1. LABELED TAG WILL BE WRAPPED AROUND CABLE.
2. LABEL TAG PER LABEL STANDARD ISSUED.



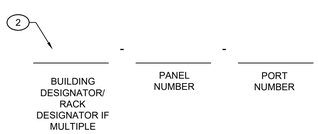
2 CABLE LINK IDENTIFIER LABELING FORMAT

NOT TO SCALE



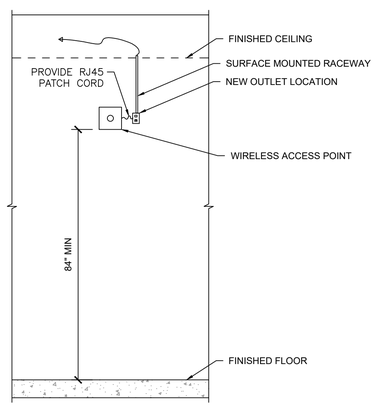
NOTES:

1. LABELED TAG WILL GO BEHIND WINDOW PROVIDED.
2. LABEL TAG PER LABEL STANDARD ISSUED.



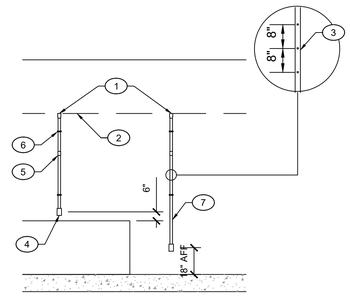
3 HORIZONTAL LINK IDENTIFIER LABELING FORMAT

NOT TO SCALE



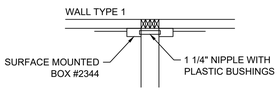
4 WIRELESS ACCESS POINT DETAIL, WALL MOUNT

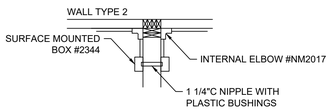
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NOTES:

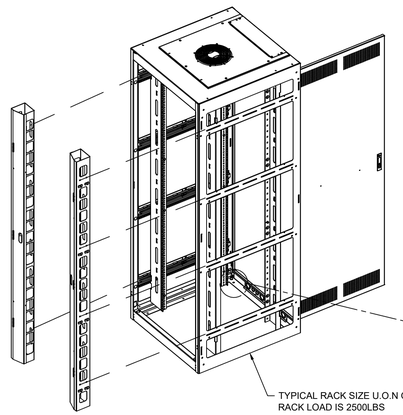
1. CEILING FITTING #NM2010A
2. T-BAR CEILING
3. SECURE SMR EVERY 8" OC
4. SURFACE MOUNTED BOX #2344
5. COUPLER COVER #NM2006
6. MOUNTING STRAP #NM2003 AS REQUIRED
7. SURFACE MOUNTED RACEWAY #NM2000BC





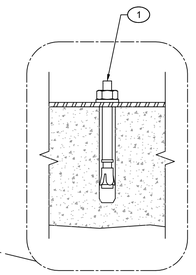
5 SURFACE MOUNTED RACEWAY DETAILS

NOT TO SCALE



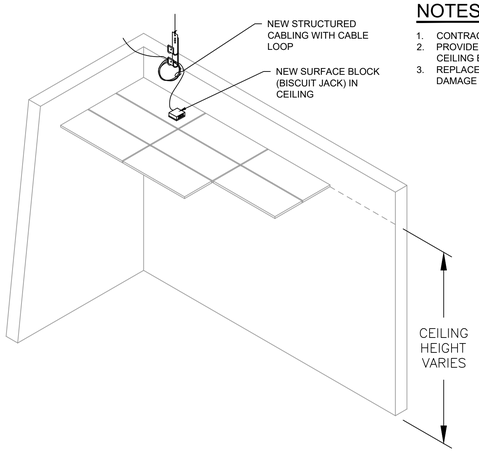
NOTES:

1. FLOOR MOUNT CABINETS SHALL BE SECURED TO CONCRETE FLOOR PER ESR/CC 1917 WITH DIAMETER HILTI KWIK TZ BOLTS, MINIMUM EMBED DEPTH OF 2" ON EACH CORNER.



6 MDF ENCLOSURE

NOT TO SCALE



NOTES:

1. CONTRACTOR TO PROVIDE ALL T-BAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED, TERMINATE AT CEILING BOX AS SHOWN.
3. REPLACE ANY BROKEN TILES, ALERT OWNER TO AND PREVIOUS DAMAGE PRIOR TO INSTALLATION.

7 IN CEILING DATA OUTLET

NOT TO SCALE

TWAIN HARTE SCHOOL DISTRICT
STRUCTURED CABLING
TWAIN HARTE SCHOOL
18815 MANZANITA DR. TWAIN HARTE, CA 95383

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