

Project Owner:	Shelby Public Schools
Project Name:	New Elementary Technology Systems
Issue Date:	November 14, 2022

PROJECT QUESTIONS AND ANSWERS

*This document provides answers to questions asked by bidders who have reviewed the **Technology Request for Bid** for the above referenced project.*

Q1: The specifications talk of a fiber connection between the High School and the Elementary and states that the information is contained in the drawings. Yet, there are no drawings showing this. Is that inclusive of this bid?

A: Yes. The Fiber Contractor will provide the required fiber to connect the HS and the New Elementary. Conduit will be provided by the Electrical Contractor from the HS MDF to the New Elementary MDF.

Q2: Are we only concerned with the locations noted in “blue” on the prints for any technology cabling? Or, are ALL symbols to be considered even if they are not blue in color?

A: All data drops whether black or blue are indicated with a #D notation (1D, 2D, etc.). Please be aware that there are multiple symbols depending on termination locations.

Q3: Is the cable tray in place throughout the school already? I see no contractor requirements for tray.

A: Cable tray is shown on the drawings in the corridors and will be provided by the Electrical Contractor.

Q4: Who is the Electrical Contractor?

A: Allied Electric

Q5: Who is responsible for fire stopping?

A: If the conduit is only used by a specific trade, example Low Voltage Cabling Contractor, then the Low Voltage Cabling Contractor is responsible. If the pathway is shared, contractor is to coordinate with Electrical Contractor.

Q6: Does the classroom audio system require an IP Data Drop, indicated with an S4 Symbol?

A: No.

Q7: Will there be a print for the outdoor pathway?

A: Please see the attached drawing: Site Electrical Plan.

Q8: When it mentions second and third shift is that in reference to the High School?

A: Yes.

Q9: How many SFP Modules?

A: See specifications page 85.

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Q10: We understand that there will be a conduit between the new elementary and the high school. This conduit will be used to provide a route for fiber optic cable. Is this a metal conduit when it is inside the existing high school? Is this a metal conduit when it is in the new elementary? Does it stay in the ground and come up in the new elementary, in the telecom room there?

A: See Question 1.

Q11: Are the ceilings all lift out drop in tile? Ceiling height?

A: See the attached drawings: Reflected Ceiling Plan.

Q12: I do not see any print showing the fiber path between schools as was stated at the pre-bid. At least not in the original bid-pack. Can said print be provided

A: Please see the attached drawing: Site Electrical Plan.

Q13: The access control credentials state 13.56MHz and the card readers are 125kHz. Do you want kHz credentials or multi-class readers?

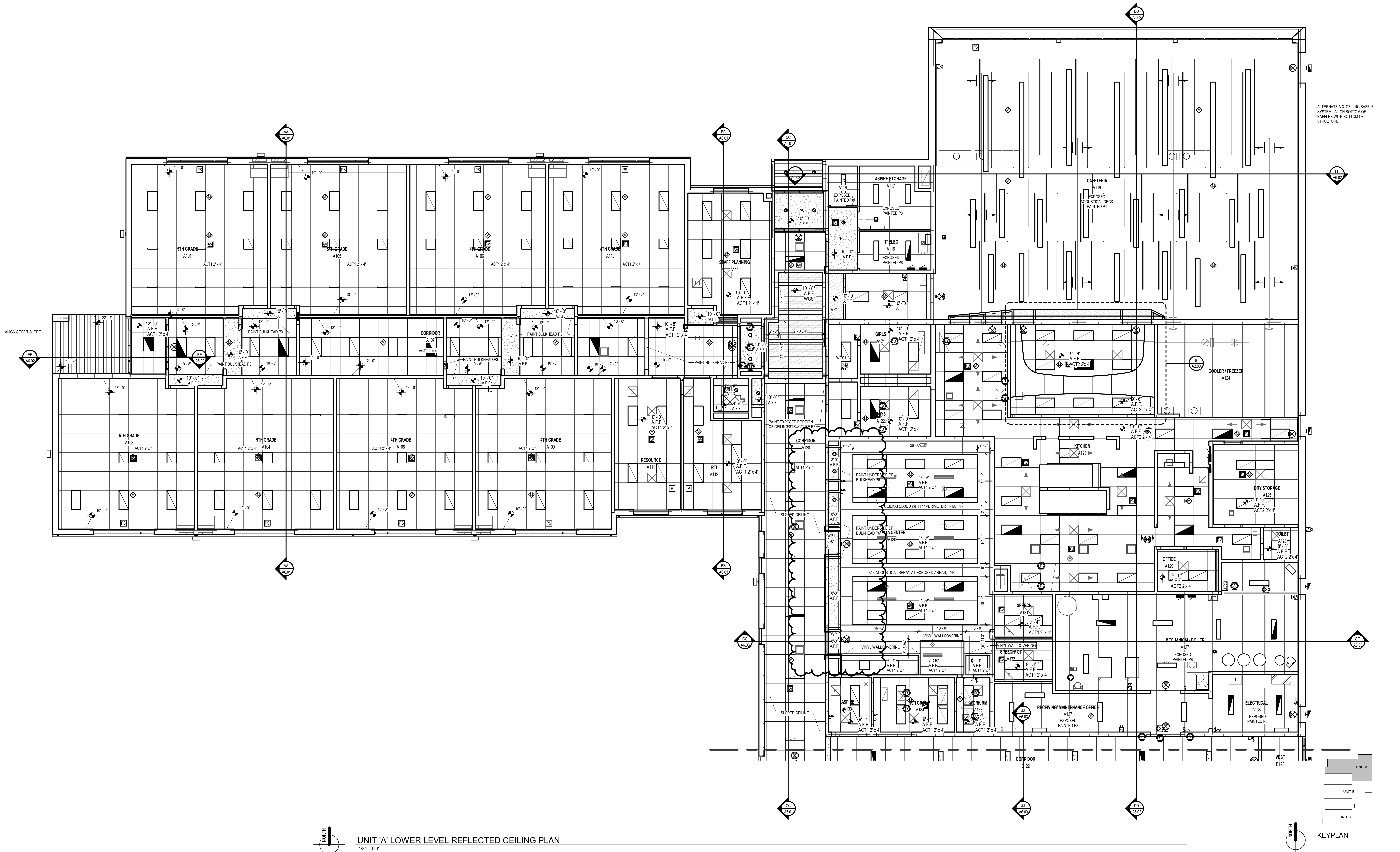
A. Multi-class readers. HID multiCLASS SE RP15 (Mullion Style) and HID multiClass SE RP40 (Wall Switch Style).


















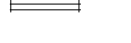











Q14: Can you provide the Electrical Symbol Legend.

A: Please see the drawing Electrical Details.

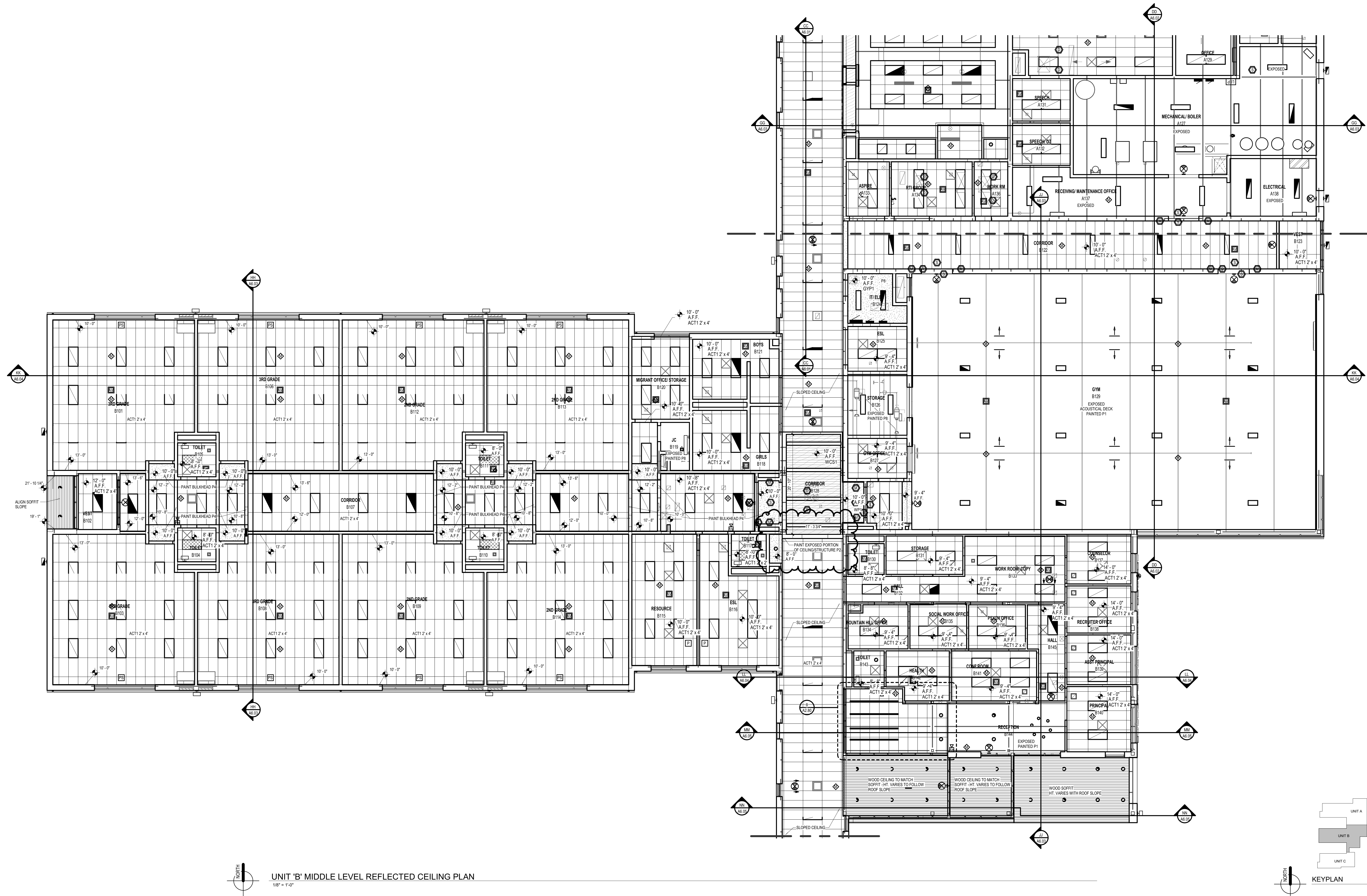
END OF QUESTIONS AND ANSWERS #1

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CEILING LEGEND					
	DIRECT EXTERIOR FINISH SYSTEM		FIXTURE IS DESIGNATED FOR EMERGENCY OPERATION		SUPPLY GRILLE / DIFFUSER
	GYPSUM BOARD CEILING		SINGLE FACE EXIT SIGN		RETURN GRILLE / DIFFUSER
	PRE FINISHED VENTED METAL SOFFIT		DOUBLE FACE EXIT SIGN		SLOT DIFFUSER
	RECESSED 2x4 LIGHT FIXTURE		WALL-MOUNTED EXIT SIGN		MECHANICAL EQUIPMENT
	RECESSED 1x4 LIGHT FIXTURE		OCCUPANCY SENSOR		ACCESS DOOR
	RECESSED LIGHT FIXTURE		FIRE ALARM - VISUAL		CONTINUOUS SOFFIT VENT
	SURFACE / PENDANT MOUNT FIXTURE		FIRE ALARM - AUDIOVISUAL		SOFFIT GRILLE (8x16 U.O.N.)
	PENDANT MOUNT FIXTURE		ALUMINUM SOFFIT		C.J.
	SURFACE MOUNT FIXTURE		PA SPEAKER		CUT TILE
	SURFACE / PENDANT MOUNT FIXTURE		SMOKE DETECTOR		

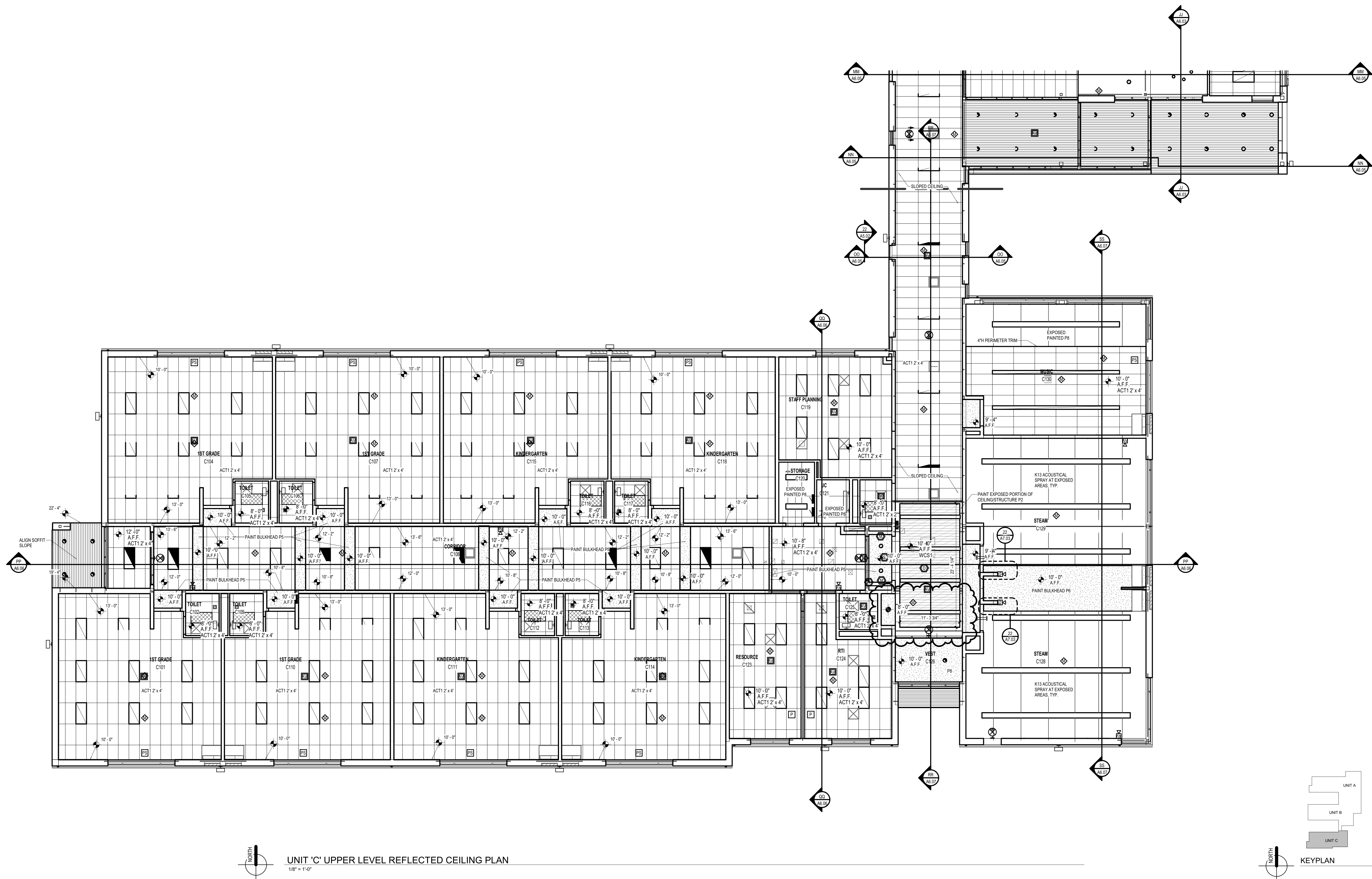
- GENERAL CEILING NOTES:
- CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
 - CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
 - WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS.
 - UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0\"/>
 - PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
 - MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PAPER BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
 - PROVIDE 2'-0\"/>
 - REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
 - ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
 - SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

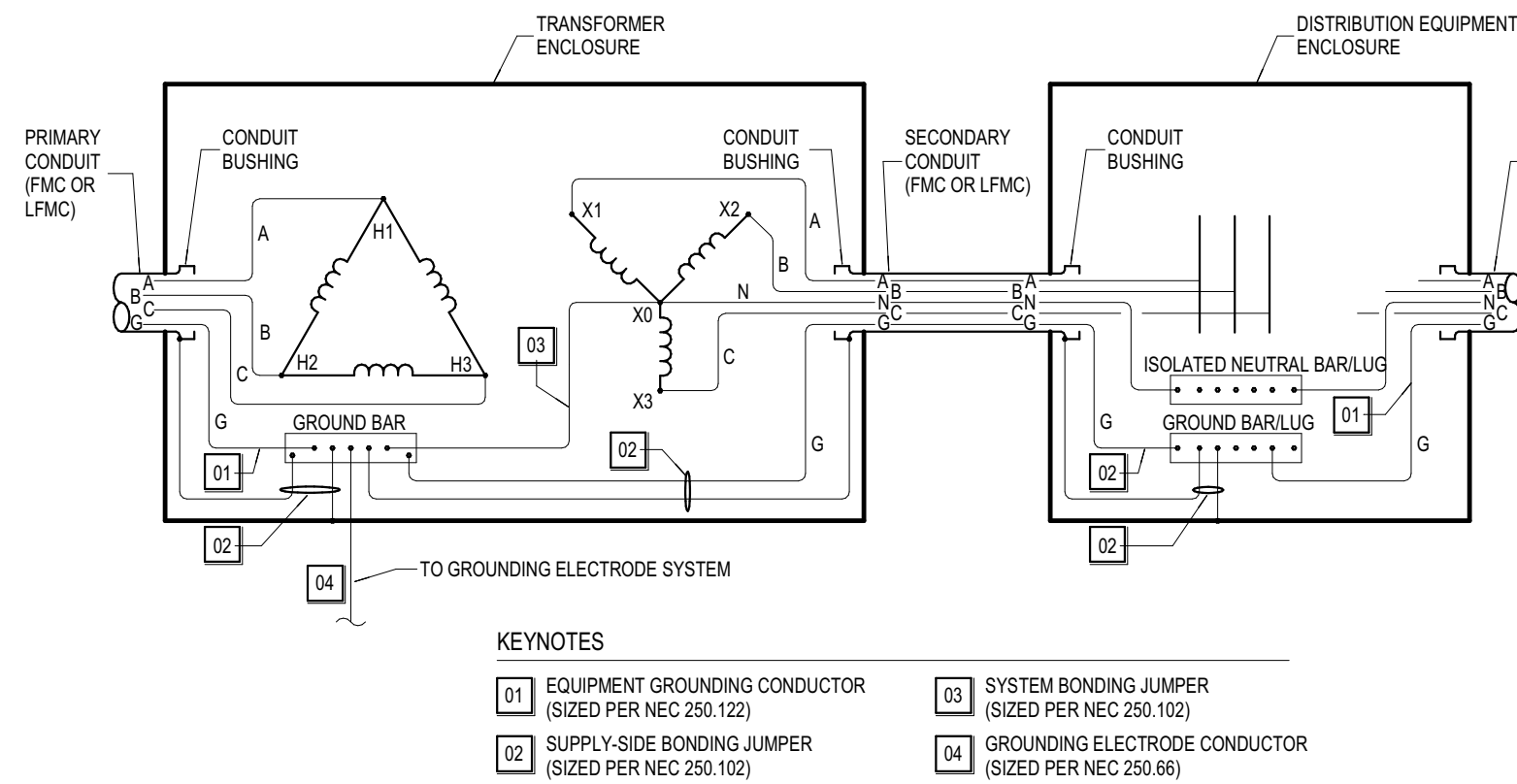


UNIT 'B' MIDDLE LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"

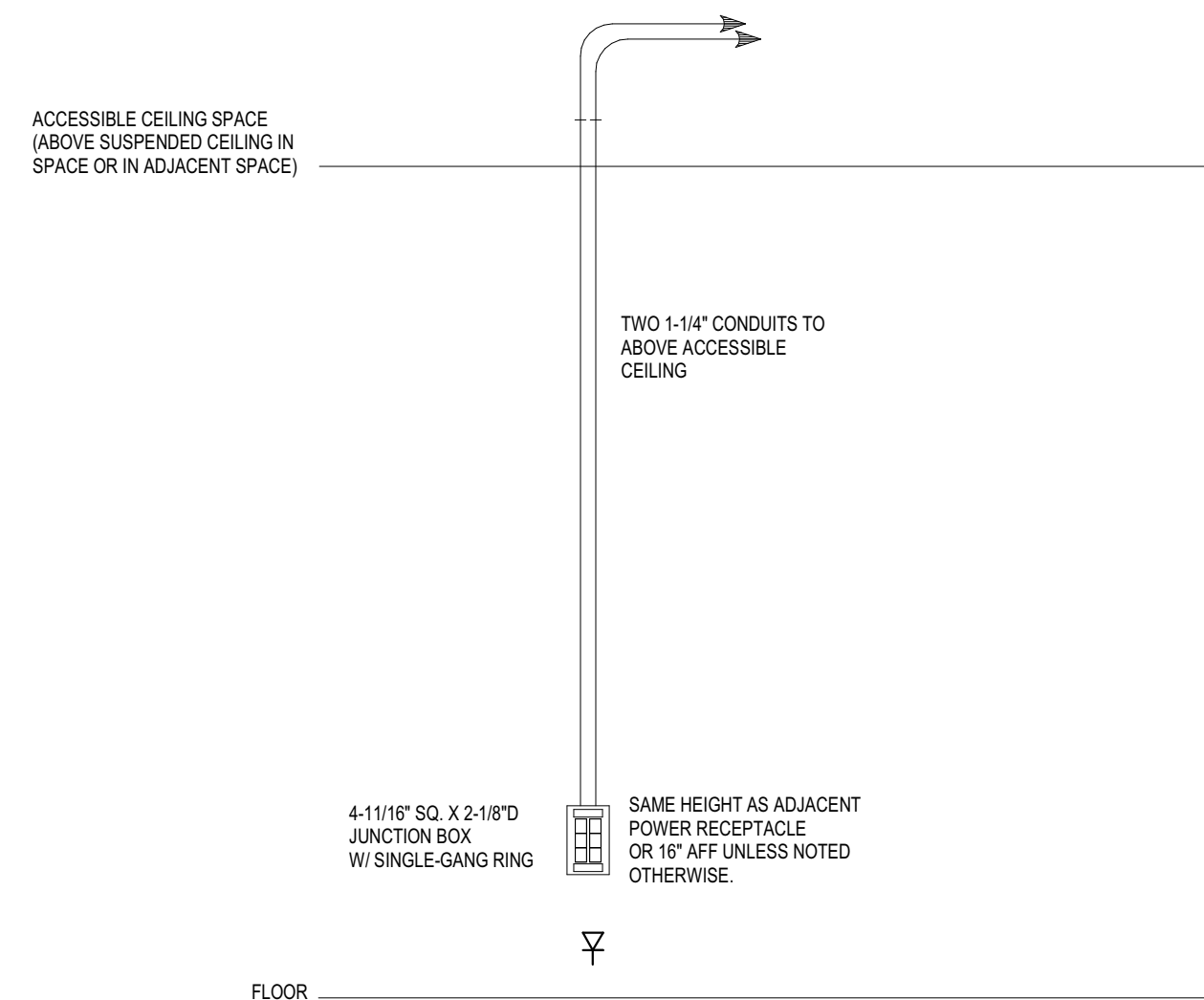
CEILING LEGEND			
	DIRECT EXTERIOR FINISH SYSTEM		FIXTURE IS DESIGNATED FOR EMERGENCY OPERATION
	GYPSUM BOARD CEILING		SINGLE FACE EXIT SIGN
	PRE-FINISHED VENTED METAL SOFFIT		DOUBLE FACE EXIT SIGN
	RECESSED 2x4 LIGHT FIXTURE		WALL-MOUNTED EXIT SIGN
	RECESSED 1x4 LIGHT FIXTURE		OCCUPANCY SENSOR
	RECESSED LIGHT FIXTURE		FIRE ALARM - VISUAL
	SURFACE / PENDANT MOUNT FIXTURE		FIRE ALARM - AUDIOVISUAL
	PENDANT MOUNT FIXTURE		ALUMINUM SOFFIT
	SURFACE MOUNT FIXTURE		PA SPEAKER
	SURFACE / PENDANT MOUNT FIXTURE		SMOKE DETECTOR
			SUPPLY GRILLE / DIFFUSER
			RETURN GRILLE / DIFFUSER
			SLOT DIFFUSER
			MECHANICAL EQUIPMENT
			ACCESS DOOR
			CONTINUOUS SOFFIT VENT
			SOFFIT GRILLE (8x16 U.O.N.)
			C.J.
			CONTROL JOINT
			CUT TILE

- GENERAL CEILING NOTES:
1. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
 2. CEILING TILE TYPE AS SPECIFIED. CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
 3. WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS.
 4. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0" x 2'-0" OR 2'-0" x 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
 5. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
 6. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
 7. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
 8. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
 9. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
 10. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS. COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
 11. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

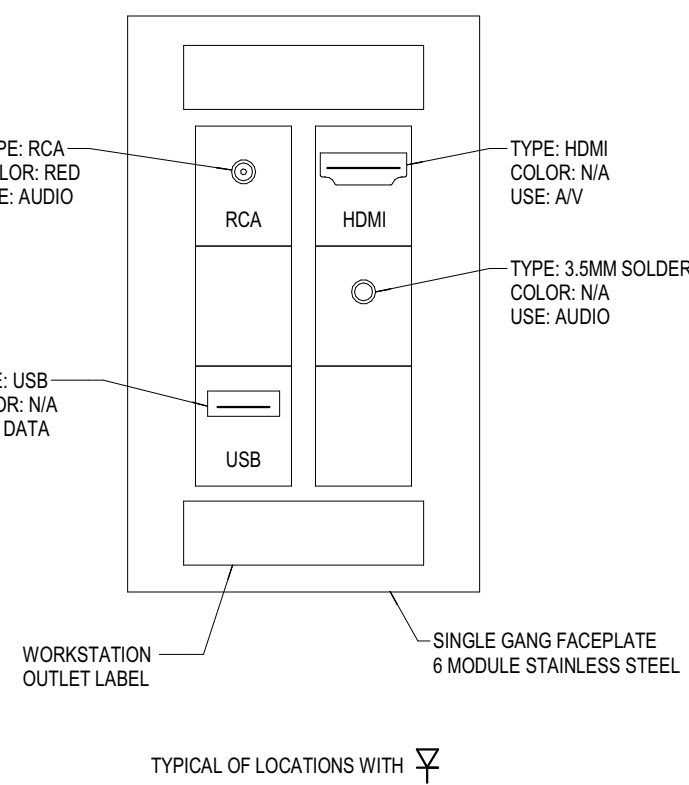




10
E7.01 SEPARATELY DERIVED SYSTEM GROUNDING/BONDING SCHEMATIC
(SYSTEM BONDING AT SOURCE)
NOT TO SCALE



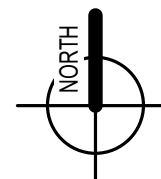
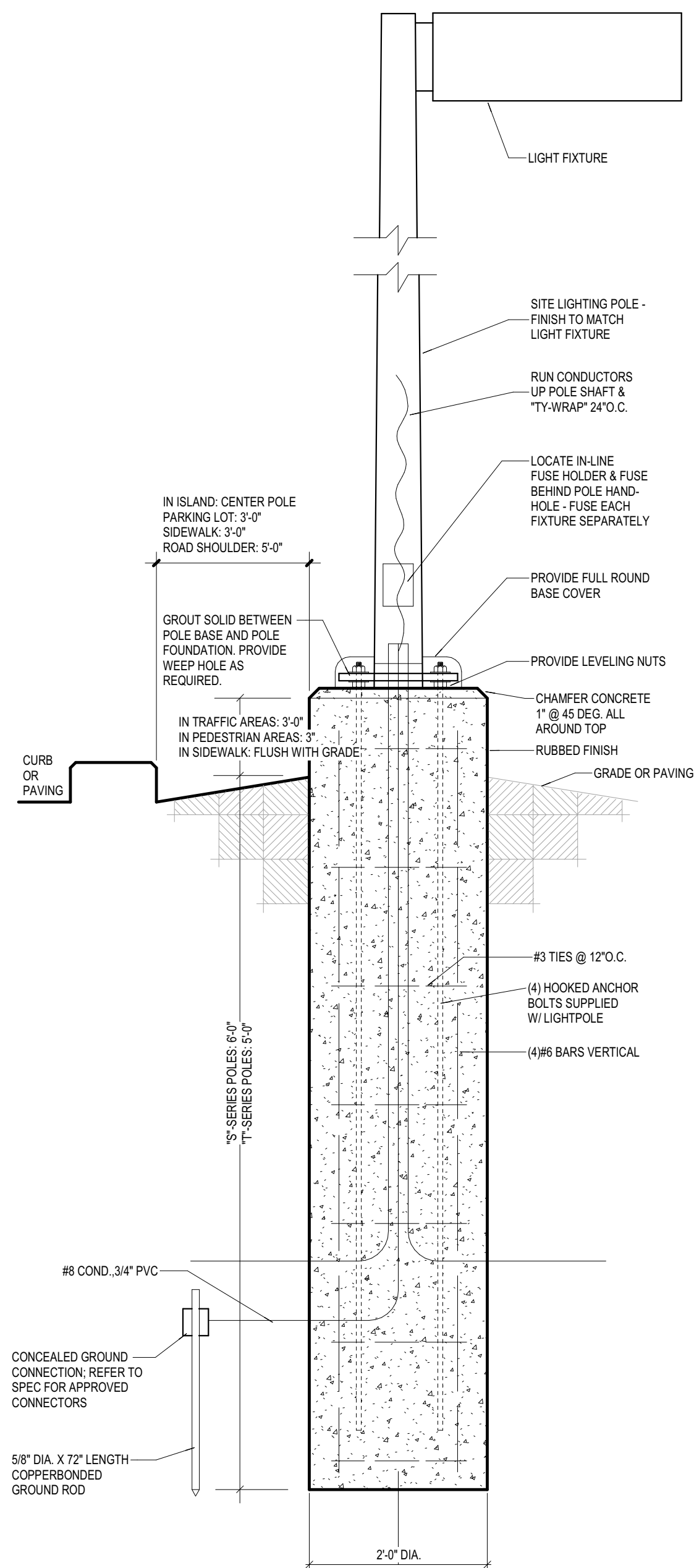
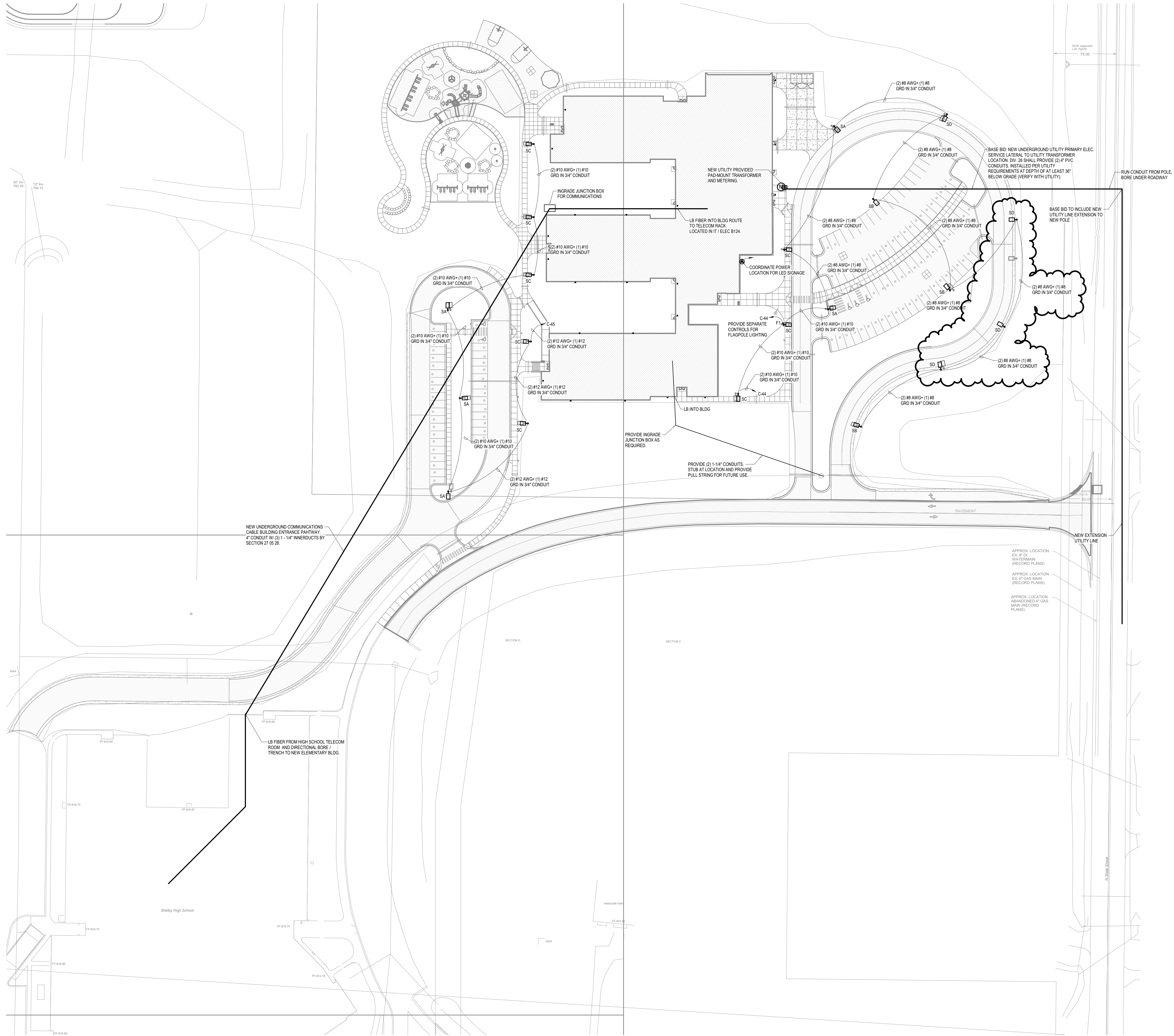
9
E7.01 TYPICAL AUDIO/VISUAL COMMUNICATION OUTLET
1/4\"/>



TYPICAL OF LOCATIONS WITH

ELECTRICAL SITE GENERAL NOTES

1. REFER TO SITE/CIVIL PLANS FOR ADDITIONAL INFORMATION.
2. LOCATIONS SHOWN FOR EXISTING UTILITIES (IF ANY) ARE APPROXIMATE AND DERIVED FROM GENERAL OBSERVATION AND/OR AVAILABLE RECORDS. THIS PLAN SHALL NOT BE INTERPRETED AS SHOWING EXACT LOCATIONS OR SHOWING ALL UTILITIES IN THE AREA.
3. CONTRACTOR SHALL FIELD-VERIFY LOCATIONS, SIZES, AND TYPES OF ALL EXISTING UNDERGROUND UTILITIES, CONDUITS, AND CABLES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES TO IDENTIFY PUBLIC UTILITIES. VERIFY ALL PRIVATE UTILITIES WITH OWNER RECORDS AND MAINTENANCE PERSONNEL.
4. PROTECT THE SITE, ADJACENT PROPERTY, AND UTILITY SERVICES FROM DAMAGE OR DISRUPTION OF SERVICE ACCESS. DAMAGE TO EXISTING STRUCTURES, SITE, OR UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. ALL UNDERGROUND CONDUIT SHALL BE RIGID NONMETALLIC (RNC) TYPE. ALL UNDERGROUND BENDS/ELBOWS SHALL BE GALVANIZED RIGID METALLIC (RMC) TYPE, PROTECTED FROM CORROSION PER CONDUIT SPECIFICATION REQUIREMENTS.
6. INSTALL DETECTABLE UNDERGROUND WARNING TAPE ABOVE ALL UNDERGROUND CONDUITS AND CABLES. COLOR OR PER APWA UNIFORM COLOR CODE: RED FOR ELECTRIC POWER/LIGHTING, ORANGE FOR COMMUNICATIONS/ALARM/SIGNAL. REFER TO SPECIFICATIONS.
7. ALL EXISTING TREES TO REMAIN SHALL BE CAREFULLY PROTECTED. DO NOT DRIVE HEAVY EQUIPMENT WITHIN 12 FEET OF TREE TRUNKS. BRANCHES WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE CUT OUT AS DIRECTED BY THE ARCHITECT/ENGINEER. ANY ROOTS OF EXISTING TREES TO REMAIN WHICH ARE EXPOSED DUE TO DEMOLITION SHALL BE COVERED WITHIN 4 HOURS WITH SOIL. DAMAGED TREES SHALL BE REPLACED AT THE DISCRETION OF THE ARCHITECT/ENGINEER AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
8. PATCH AND REPAIR GRASS AND/OR OTHER IMPROVED PLANTINGS AS REQUIRED WHERE NEW UNDERGROUND CONDUITS, CABLES, AND/OR DUCTBANKS ARE INSTALLED. CONTRACTOR SHALL BACKFILL TRENCHES, LEVEL OUT SOIL FLUSH WITH GRADE, AND REMOVE ANY EXCESS MATERIAL PRIOR TO BEGGIN REPAIR.
9. CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR ANY EXISTING SURFACE FINISHES AND OTHER ITEMS THAT ARE DISTURBED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION, INCLUDING GRASS, CONCRETE, ASPHALT, LANDSCAPING, FENCINGS, STRUCTURES, IRRIGATION, UNDERGROUND UTILITIES, ETC.



SITE ELECTRICAL PLAN
1" = 80'-0"

1
ES2.07

SITE LIGHTING POLE FOUNDATION
NOT TO SCALE

ISSUANCES

02.10.2022 BIDS & CONSTRUCTION
02.24.2022 ADDENDUM 001
03.03.2022 ADDENDUM 002
06.15.2022 BULLETIN 004

DRAWN BJE
REVIEWED PRH

PROJECT NO. 5-5491

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SITE ELECTRICAL PLAN

ES2.01