

JORDAN SCHOOL DISTRICT WJ HS TEEN CENTER 8136 2700 W, WEST JORDAN, UT 84088

BID DOCUMENTS November 1, 2024

			INDEX TO	DRAWING	GS -BID DOCUMENT	ſS
	:	YEAR	GENERAL		ICCT	
(ANSI)	:	2009 ICC	G101	FIRST FLOOR LIF	E SAFETY PLAN	
()			G500	INTERIOR WALL	TYPES & DETAILS	
	:	YEAR	G700	SPECIFICATIONS		
(IBC)	:	2021	G701	SPECIFICATIONS		
DE (IMC) (IPC)		2021 2021	ARCHITE	CTURAL		
()		0004	A100D	DEMOLITION PLA	N	
	:	2021 2020	A101	FLOOR PLANS		
			A410	INTERIOR ELEVA	TIONS	
	:	E	A411 A430	CASEWORK DET	AILS	
	:	II B	A600	DOOR DETAILS, S	SCHEDULE & WINDOW TYPES	
	:	YES	A620	MOUNTING HEIG	HTS & CLEARANCES	
	:	17,500/STORY (At)	A640	FINISH SCHEDUL		
:	2.817 SQ. FT.		A650 A710	FLOOR & WALL P	ATTERN PLANS	
		- -				
:	83,125 SQ. F	Γ.	MECHANI	CAL		
			M001	SPECIFICATIONS		
	TYPE · IIB		M101			
			M601	MECHANICAL SC	TAILS	
	0					
	0		PLUMBING	3		
	0		PD101	PLUMBING DEMC	DUITION PLAN	
	0		P101		R PLANS - BASE BID D DI ANS - BASE BID	
	0 N/A		P501	PLUMBING SCHE	DULES	
	IN/A		P601	PLUMBING DETA	LS	
			FIRE PRO			
			FP101 FP501	FIRE PROTECTIO	N SCHEDULES & DETAILS	
			ELECTRIC	CAL		
			E001	SYMBOLS SCHEE	OULES AND NOTES	
R WALL A	AS NOTED		E002	SPEC, SCHEDULE	ES AND NOTES	
AND ADI		LEADER	F201		GHTING FLOOR PLAN	
			E301	TEEN CENTER EL	ECTRICAL FLOOR PLAN	
			E401	ELECTRICAL DIA	GRAMS	
			ED101	ELECTRICAL DEM	NOLITION FLOOR PLANS	
			CONSUL	TANTS		
			 MECHAN	IICAL	ELECTRICAL	
		DATE:	OLSEN & PETER	RSEN		
			SALT LAKE CITY	(, UT 84115	WEST VALLEY CITY, UT 84120	

801.532.2196

801.486.4646

DATE:

DATE:

CEILINGS:



PROJECT GENERAL NOTES

BUILDING CODES: COMPLY WITH REQUIREMENTS OF THE ADOPTED EDITIONS OF THE INTERNATIONAL CODE COUNCIL CODES. THE CODES AND STANDARDS REFERENCED WITHIN THE ICC CODES AND THE AMERICANS WITH DISABILITIES ACT.

REMODELS:

VERIFY IN FIELD (VIF): FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.

CUT AND PATCH: CUT AND PATCH EXISTING BUILDING CONSTRUCTION AS REQUIRED. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.

CONFLICTS: WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY, OR ARE IN CONFLICT WITH, THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.

EQUIPMENT RELOCATION: RELOCATE EXISTING MECHANICAL AND ELECTRICAL AS REQUIRED FOR INSTALLATION OF NEW WORK.

MATERIAL DISPOSAL: LEGALLY DISPOSE OF ALL DEMOLISHED OR REMOVED EXISTING MATERIAL, UNLESS NOTED OTHERWISE.

SALVAGE MATERIAL: COORDINATE WITH THE OWNER FOR REMOVAL OF EXISTING MATERIAL NOTED TO BE RETURNED TO THE OWNER. REMOVAL SHALL BE BY THE OWNER UNLESS NOTED OTHERWISE. PHASING: COORDINATE PHASING OF THE WORK WITH THE OWNER AND THE ARCHITECT TO MEET THE OWNER'S SCHEDULE

PROTECTION & CLEANING: CONTAIN ALL CONSTRUCTION ACTIVITY WITHIN CONSTRUCTION BARRICADES OR FENCES. PROTECT OWNER'S EXISTING FACILITIES AND PROPERTY ADJACENT TO NEW CONSTRUCTION. DURING AND AFTER WORK OF THIS CONTRACT IS COMPLETE, CLEAN EXISTING AREAS AFFECTED BY THE WORK TO THE OWNER'S SATISFACTION.

REPAIR & REPLACEMENT: REPAIR OR REPLACE EXISTING FACILITIES OR PROPERTY DAMAGED BY NEW CONSTRUCTION. MATCH EXISTING SURFACE FINISH OR MATERIAL.

PATCH & REPAIR: PATCH AND REPAIR EXISTING WALLS, FLOORS, CEILINGS, LANDSCAPING, PAVING OR OTHER SURFACES AFFECTED BY DEMOLITION TO MATCH THE EXISTING MATERIAL AND FINISH.

DIMENSIONS: METAL STUD WALLS ARE DIMENSIONED TO FACE OF METAL STUD, UNLESS NOTED OTHERWISE. MASONRY WALLS ARE DIMENSIONED TO FACE OF WALL

FINISHES:

FLOOR: EXTEND FLOOR FINISHES INTO KNEE SPACES AT CABINETS, UNDER COUNTERS AND UNDER ALL OTHER OBJECTS, WHICH IN A FLOOR PLAN VIEW MAY OBSCURE THE EXTENT OF THE FLOOR FINISH. WALLS:

DOORS, WINDOWS AND FRAMES: UNLESS SPECIFIED TO BE PRE-FINISHED AT THE FACTORY, PROVIDE PAINT FINISH ON HOLLOW METAL DOORS AND HOLLOW METAL DOOR AND WINDOW FRAMES. COLOR AS INDICATED, OR IF NOT INDICATED, THEN AS SELECTED BY THE ARCHITECT. PROVIDE SPECIFIED STAIN FINISH AT WOOD DOORS. STANDING AND RUNNING TRIM:

MASONRY:

BULLNOSE CORNERS: PROVIDE BULLNOSE CORNERS ON OUTSIDE CORNERS. TYPICAL AT ALL INTERIOR MASONRY WALLS. INTERIOR MASONRY HIDDEN FROM VIEW: PROVIDE MASONRY UNITS OF SAME QUALITY AND COLOR WHERE HIDDEN FROM VIEW BY OBJECTS THAT CAN CHANGE (E.G. CABINETS, TACKBOARDS, WHITEBOARDS, ETC.). MASONRY ABOVE CEILINGS AND HIDDEN FROM VIEW MAY, WITH THE ARCHITECTS APPROVAL INCORPORATE FACTORY SECONDS AND/OR OTHER COLORS AS LONG AS STRUCTURAL INTEGRITY OF THE WALLS ARE NOT COMPROMISED.

SPECIAL INSPECTIONS: PROVIDE SPECIAL INSPECTIONS OF THE FOLLOWING ARCHITECTURAL COMPONENTS:

DEFERRED SUBMITTALS: FIRE SPRINKLER DESIGN

SPECIFICATIONS: REFER TO THE SPECIFICATIONS FOR ADDITIONAL DESCRIPTIONS OF PRODUCTS, MATERIALS AND SYSTEMS NOT INDICATED IN THE DRAWINGS. WHERE THE TERM SEE SPECS, RE: SPECS OR A SIMILAR REFERENCE TO THE SPECIFICATIONS HAS BEEN OMITTED FROM A DESCRIPTION OF A PRODUCT, MATERIAL OR SYSTEM, IT IS INFERRED.

SYMBOLS: WHERE PRODUCT SYMBOLS ARE INDICATED, PROVIDE THE INDICATED PRODUCT AS SPECIFIED, IN THE QUANTITY INDICATED BY THE SYMBOL. WHERE PLUMBING FIXTURES. EQUIPMENT. LIGHT FIXTURES AND OTHER SIMILAR PRODUCTS ARE SHOWN ON ARCHITECTURAL DRAWINGS, REFER TO THE APPROPRIATE DISCIPLINE DRAWINGS FOR TYPE, UTILITIES AND OTHER REQUIREMENTS.

METAL STUD WALLS & PARTITIONS:

EXTEND INTERIOR WALLS AND PARTITIONS FROM FLOOR TO ROOF OR FLOOR DECK ABOVE. UNLESS NOTED OTHERWISE. THE SPECIFICATIONS INDICATE A MINIMUM METAL STUD GAUGE. DESIGN METAL STUD WALLS AND PARTITIONS FOR 5 PSF AND L/360, UNLESS NOTED OTHERWISE, AND INCREASE THE GAUGE ABOVE THE MINIMUM AS REQUIRED BY THE METAL STUD MANUFACTURER FOR ACTUAL WALL HEIGHTS.

REMODEL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.

2. CUT AND PATCH EXISTING BUILDING CONSTRUCTION AS REQUIRED. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.

3. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.

4. CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL AND ELECTRICAL AS REQUIRED FOR INSTALLATION OF NEW WORK.

5. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

6. EXIST. MATERIAL NOTED TO BE RETURNED TO THE OWNER SHALL BE REMOVED FROM THE SITE BY THE OWNER; CONTRACTOR SHALL COORDINATE WITH THE OWNER.

7. THE CONTRACTOR SHALL COORDINATE PHASING OF THE WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.

8. ALL CONSTRUCTION ACTIVITY IS TO BE CONTAINED W/I CONSTRUCTION BARRICADES OR FENCES. CONTRACTORS SHALL PROTECT OWNER'S EXIST. CONSTRUCTION ADJ. TO NEW CONSTRUCTION. AFTER WORK OF THIS CONTRACT, CLEAN EXIST. AREAS EFFECTED BY THE WORK TO THE OWNER'S SATISFACTION.

9. CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY NEW CONSTRUCTION. MATCH EXISTING SURFACE FINISH OR MATERIAL.

10. CONTRACTOR SHALL REFER TO ENGINEERS DRAWINGS FOR CONSTRUCTION ON FLOORS NOT SHOWN IN ARCHITECT'S DRAWINGS.

11. PATCH AND REPAIR ALL EXISTING WALLS WHERE AFFECTED BY DEMOLITION & NEW CONSTRUCTION TO MATCH EXISTING FINISH.

PROJECT GENERAL TI NOTES

ATTACHMENT TO STEEL DECK: DO NOT USE STEEL DECK THAT DOESN'T HAVE CONCRETE FILL TO SUPPORT LOADS FROM PLUMBING, FIRE SPRINKLERS, HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS OR EQUIPMENT OF ANY KIND, UNLESS SPECIFICALLY NOTED OTHERWISE. LIGHTWEIGHT ACOUSTICAL CEILINGS WITH A TOTAL WEIGHT PER WIRE NOT EXCEEDING 50 POUNDS MAY BE HUNG FROM THE STEEL ROOF DECK. STAGGER HANGERS TO DISTRIBUTE THE LOAD OVER MULTIPLE DECK FLUTES.

STEEL DECK WITH CONCRETE FILL MAY BE USED TO SUPPORT LOADS OF UP TO 500 POUNDS FROM PLUMBING, FIRE SPRINKLERS, HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS AND MISCELLANEOUS EQUIPMENT. DISTRIBUTE LOADS SUCH THAT THE AVERAGE LOAD DOES NOT EXCEED 50 LBS/SQ.FT. AND NOT MORE THAN 500 POUNDS IS LOCATED ON ANY SINGLE DECK FLUTE SPAN BETWEEN SUPPORT BEAMS. ATTACHMENTS TO STEEL DECK WITH CONCRETE FILL SHALL ENGAGE THE CONCRETE, AND SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.

ATTACHMENT TO OPEN WEB STEEL JOISTS AND GIRDERS: ALL CONCENTRATED LOADS GREATER THAN 100 POUNDS AND NOT MEETING THE REQUIREMENTS OF THE PARAGRAPH BELOW SHALL BE LOCATED WITHIN 6 INCHES OF THE JOIST OR GIRDER PANEL POINTS OR THE JOIST OR GIRDER SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. REFER TO THE GENERAL STRUCTURAL NOTES AND THE "TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD" ON THE STRUCTURAL DRAWINGS.

CONCENTRATED POINT LOADS, SINGLE OR MULTIPLE, TOTALING 100 POUNDS OR LESS BETWEEN PANEL POINTS CAN BE LOCATED AT ANY POINT ALONG THE TOP OR BOTTOM CHORD OF A JOIST OR GIRDER BETWEEN ADJACENT PANEL POINTS WITHOUT MEETING THE REQUIREMENTS OF THE PARAGRAPH ABOVE, PROVIDED THE LOADS ARE APPLIED TO THE JOIST SUCH THAT BOTH ANGLES OF THE BOTTOM CHORD ARE EQUALLY LOADED (I.E. NO SINGLE BEAM CLAMPS).

JOIST BRIDGING SHALL NOT BE USED TO SUPPORT HANGING LOADS.

BRACING OF MISCELLANEOUS ITEMS INCLUDING MECHANICAL. PLUMBING. CONDUIT, ARCHITECTURAL ELEMENTS, ETC. SHALL CONNECT TO THE TOP CHORD OF THE JOIST OR GIRDER UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.

ATTACHMENT TO STEEL BEAMS:

BRACING FOR SEISMIC LOADS SHALL ATTACH WITHIN 4" OF THE TOP FLANGE OF THE BEAM, UNLESS NOTED OTHERWISE.



А В С EXIT 47 180 36 D B

E1 LIFE SAFETY PLAN SCALE: 1/4" = 1'-0"

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LEGEND - LIFE SAFETY

	OCCUPANCY GROUP
AREA USE	OCCUPANT LOAD
A-3 21 150 SF 7 GSF	OCCUPANT LOAD FACTOR GROSS: GSF NET: NSF
	SQUARE FOOTAGE
EXIT 183 335 67"	EXIT LOAD EXIT WIDTH PROVIDED EXIT CAPACITY

____(20 FT)____ DEAD END ●-----▶ PATH OF TRAVEL

●-----> COMMON PATH OF TRAVEL

TRAVEL DISTANCE										
EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2, WITH SPRINKLERS:										
OCCUPANCY DISTANCE										
BUSINESS AR	EAS	(B)	300'							
ASSEMBLY: N	O FIXED STG	(A)	250'							
STORAGE		(S-1)	250'							
EDUCATION		(E)	250'							
UTILITY / MISO	C. SERVICES	(U-1)	400'							
COMMON PATH OF TRAVEL COMMON PATH OF TRAVEL DISTANCE PER TABLE 1006.2.1, WITH SPRINKLERS:										
PER TAI	BLE 1006.2.1, V	VITH S	SPRINKLERS:							
PER TAI	BLE 1006.2.1, V	VITH S	MAX. TRAVEL DISTANCE							
PER TAI	BLE 1006.2.1, V	(B)	MAX. TRAVEL DISTANCE 100'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N	EAS	(B) (A-2/	SPRINKLERS: MAX. TRAVEL DISTANCE 100' A-3) 75'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N EDUCATION	EEAS O FIXED STG	(B) (A-2// (E)	MAX. TRAVEL DISTANCE 100' A-3) 75' 75'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N EDUCATION STORAGE	EAS O FIXED STG	(B) (A-2/, (E) (S-2)	MAX. TRAVEL DISTANCE 100' A-3) 75' 75' 100'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N EDUCATION STORAGE UTILITY / MISC	EAS O FIXED STG	(B) (A-2/, (E) (S-2) (U-1)	MAX. TRAVEL DISTANCE 100' A-3) 75' 100' 75' 100' 75'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N EDUCATION STORAGE UTILITY / MISC	EAS O FIXED STG	(B) (A-2/, (E) (S-2) (U-1)	MAX. TRAVEL DISTANCE 100' A-3) 75' 100' 75' 100' 75'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N EDUCATION STORAGE UTILITY / MISC	EAS O FIXED STG C. SERVICES	(B) (A-2/, (E) (S-2) (U-1)	MAX. TRAVEL DISTANCE 100' A-3) 75' 100' 75' 100' 75' 100'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N EDUCATION STORAGE UTILITY / MISC	EAS O FIXED STG C. SERVICES LEVEL COMMON PA OF TRAVE	(B) (A-2// (E) (S-2) (U-1) 01 ATH L	MAX. TRAVEL DISTANCE 100' A-3) 75' 100' 75' 100' 75' 100' 75' 100' 75' 100' 75' 100' 75'							
PER TAI OCCUPANCY BUSINESS AR ASSEMBLY: N EDUCATION STORAGE UTILITY / MISC PATH # 1	EAS O FIXED STG C. SERVICES LEVEL COMMON PA OF TRAVE 8' - 8"	(B) (A-2// (E) (S-2) (U-1) (U-1)	MAX. TRAVEL DISTANCE 100' 4-3) 75' 100' 75' 100' 75' 100' 75' 100' 75' 60' - 3"							

AREA FUNCTION (IBC TABLE 1004.1.2)

- BUSINESS
- ED, VOCATIONAL
- NO OCCUPANCY
- STORAGE

- EXISTING EGRESS

<u>BUILDING KEYPLAN</u>



Autodesk Doc: 10/31/2024 2:4

С D

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В

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5		

			W	/all Schedule							
		CONSTRUCTION									
WALL TAG	DESCRIPTION	WIDTH	TERMINATION	LIMITING HEIGHT	WALL HEAD DETAIL	WALL BASE DETAIL	FIRE RATING	BATT	STC RATING		
				1				1			
S3	5/8" GB + 3 5/8" MTL STUD + 5/8" GB	4 7/8"						No			
S3A	5/8" GB + 3 5/8" MTL STUD + 5/8" GB	4 7/8"	TO DECK		D4/G500	E5/G500		Yes	42-45		
S3AT	5/8" GB + 3 5/8" MTL STUD + 5/8" GB + 5/8" TILE	5 1/2"	TO DECK		D4/G500	E4/G500		Yes	42-45		
S3G	5/8" GB + 3 5/8" MTL STUD + AIR GAP	4 3/4"			D5/G500	E4/G500		No			
S6A	5/8" GB + 6" MTL STUD + 5/8" GB	7 1/4"	TO DECK	24' - 6"	D4/G500	E4/G500		Yes	42-45		
S6AT	5/8" GB + 6" MTL STUD + 5/8" GB + 5/8" TILE	7 7/8"	TO DECK		D4/G500	E4/G500		Yes	42-45		
S6ATT	5/8" TILE + 5/8" GB + 6" MTL STUD + 5/8" GB + 5/8" TILE	8 1/2"	TO DECK		D4/G500	E4/G500		Yes	42-45		
ST	5/8" TILE + 5/8" GB + 7/8" HAT CHANNEL	1 1/4"						No			









 PROVIDE 20 GAUGE
 GALVANIZED SHEET METAL
 PLATE WHERE WALL RUNS
 PARALLEL TO FLUTES SIZE: CONTINUOUS X WIDTH REQUIRED TO ATTACH TO DECK - ACOUSTICAL SEALANT - DEFLECTION TRACK





E4 WALL BASE DETAIL SCALE: 3" = 1'-0"

	1		2
	PROJECT CONTRACT FORMS AND CONDITIONS	JOIN	NT SEALANTS
	Standard Form of Agreement Between Owner and Contractor, Stipulated Sum AIA A101-2007 - Included by Reference	1.	Mildew-Resistant Silicone Sealant: Where joint seala products formulated with fungicide that are intended
	General Conditions of The Contract for Construction AIA A201-2007 - Included by Reference		and other nonporous substrates that are subject to in and temperature extremes, and that comply with the A. Products:
	Performance Bond AIA A312-1984 - Included by Reference		a. 786 Mildew Resistant; Dow Corning. b. Sanitary 1700; GE Silicones. c. Tremsil 600 White; Tremco.
А	Application and Certificate for Payment AIA G702 - Included by Reference		 B. Type and Grade: S (single component) and S C. Class: 25. D. Use Related to Exposure: NT (nontraffic).
/ \	Continuation Sheet AIA G703 - Included by Reference		 E. Uses Related to Joint Substrates: G, A, and, indicated, O. a. Use O Joint Substrates: Ceramic tile.
	GENERAL REQUIREMENTS	2.	F. Applications: Interior toilets at fixtures and explored on the second
	 BID ALTERNATES: 1. BATHROOMS AS NOTED 2. ADDING WINDOW IN EXTERIOR WALL AS NOTED 3. REPLACING EXTERIOR DOOR AND ADDING CARD READER 		 indicated, provide products complying with the follow A. Products: Available products include the follo a. 790; Dow Corning. b. UltraPruf SCS2300; GE Silicones.
	DEFERRED SUBMITTALS: 1. Fire Sprinkler Design		 c. HIFIEX 331; NUCO Industries, Inc. d. 890; Pecora Corporation. e. Spectrem 1; Tremco.
	SUBMITTALS		 B. Type and Grade: S (single component) and N C. Class: 25. D. Additional Movement Capability: 50 percent
	 PDF Submittals: Prepare submittals as PDF package, incorporating complete inf into each PDF file. Name PDF file with submittal number. A. EXAMPLE: 057300.01 - DECORATIVE METAL RAILINGS - PRODUCT Prepare and submit submittals for all products and systems required unless note Architect. A. Email: Prepare submittals as PDF package, and transmit to Architect by email. Include PDF transmittal form. Include information in email subject 	ormation 3. DATA.pdf d by sending via ine as	 Latex Sealant: Interior gypsum board joints: A. Chem-Calk 600; Bostik Inc. B. NuFlex 330; NUCO Industries, Inc. C. LC 160 All Purpose Acrylic Caulk; Ohio Seala D. AC-20; Pecora Corporation. E. PSI-701; Polymeric Systems, Inc.
	 requested by Architect. B. Processing Time: Allow 15 working days for submittal review, including ti resubmittals. 	ne for	G. Tremflex 834; Tremco.
В	3. Provide Product Data, including, but not limited to catalog cuts and wiring diagram applicable.	ns where HOL	LOW METAL Heavy-Duty Frames: SDI A250 8 Level 2
	4. Shop Drawings: Provide Project specific, noting compliance, coordination with ot products, dimensions required by field verification.	ner	A. Physical Performance: Level B according to S a. Face: Metallic-coated steel sheet, min minimum A40 (7E120) coating
	5. Samples: For review of kind, color, pattern, and texture for a check of these chara with other materials	acteristics	B. Frames: a. Materials: Metallic-coated steel sheet
	SPECIAL INSPECTIONS		b. Construction: Welded Frames, Heavy (Knock-Down not accpetable).
	1. Structural testing and special inspection services are required to verify compliance requirements specified or indicated. These services do not relieve contractor of responsibility for compliance with other construction document requirements.	e with	c. Exposed Finish: Prime, paint black, a
	 Coordinate the inspection and testing services with the progress of the work. 	1.	Fire-Rated Wood Doors: Positive pressure testing.
	 Reports shall indicate that work inspected was done in conformance to approved construction documents. 	2.	WDMA I.S.1-A Performance Grade: A. Heavy Duty unless otherwise indicated.
	4. Repair and/or replace work that does not meet the requirements of the construct documents.	on 3.	Interior Solid-Core Doors: A. Grade: Premium, with Grade A faces.
	OPERATION AND MAINTENANCE DATA		 a. Species: Match existing. b. Cut: Plain sliced (flat sliced). c. Stain: by Architect to create uniform a
	1. Submit manuals in the form of a multiple file composite electronic PDF file for each for all systems provided or as noted by Architect.	ch manual	 d. Match between Veneer Leaves: Bool e. Assembly of Veneer Leaves on Door f. Core: Particloboard
	2. For emergency Manuals indicating instructions and procedures for each system, equipment and components.	piece of	 core. Faniliceboard. g. Construction: Five or seven plies, bor h. WDMA I.S.1-A Performance Grade: H
C	RECORD DOCUMENTS	4.	Priming/Finishing A. Factory Finishing: All doors.
	 Provide Record Drawings and Product Data. ROUGH CARPENTRY Maintain one set of marked-up paper or electronic copies of the Contract Drawing Shop Drawings, incorporating new and revised drawings as modifications are iss 	gs and ued	 B. Transparent Factory Finishes: a. Grade: Premium. b. Finish: Catalyzed polyurethane. c. Effect: Filled finish.
	A. Wood blocking and nailers.B. Plywood backing panels.	ALU 1	IMINUM-FRAMED STOREFRONTS
	 Materials: A. Wood-Preservative-Treated Lumber: Preservative Treatment: AWPA C2 chemicals containing no arsenic or chromium. a. AWPA C31 (inorganic boron) may be used in protected locations b. Application: Items indicated and items in contact with roofing, wa concrete or masonry. 	with erproofing,	 thickness required and reinforced as required to supp A. Construction: NON-Thermally broken. B. Glazing System: Retained mechanically with C. Glazing Plane: Center. D. Finish: black satin E. Fabrication Method: Field-fabricated stick system
	3. Plywood backing panels for anything that is to be anchored to the wall, but not lir cabinets, marker boards, televisions, grab bars, etc	nited to; 2.	Backer Plates: Manufacturer's standard, continuous k not integral, where framing abuts adjacent construction
	4. Fasteners: Hot-dip galvanized steel where exposed to weather, in ground contac with treated wood, or in area of high relative humidity.	t, in contact 3.	Brackets and Reinforcements: Manufacturer's standa
	INTERIOR ARCHITECTURAL WOODWORK	4.	Materials:
	 Grade: Premium Type of Construction: Frameless. 		 A. Aluminum: Alloy and temper recommended b finish indicated. a. Sheet and Plate: ASTM B 209.
)	3. Cabinet, Door, and Drawer Front Interface Style: Flush overlay.		 b. Extruded Bars, Rods, Profiles, and Tucc. c. Extruded Structural Pipe and Tubes: d. Structural Profiles: ASTM B 308/B 30
	 4. Reveal Dimension: ½-inch, UNO 5. High Processes Description Learning to NEMA LD 2. The last state in the second state of the	5.	Manufacturers (not limited to):
	 D. Dign-Pressure Decorative Laminate: NEMA LD 3, grades as required by woodwork standard. 	nk quality	B. EFCO Corporation.C. Kawneer Company, Inc.
	 Core Material Wood Products: Medium-Density Fiberboard: ANSI A208.2, Grade (Partical Board not accepted) 	130. GLA	ZING
	 7. Cabinet Hardware: A. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, degrees of opening, self-closing, soft closing. 8. Pulle: Design of Design: Tag Kasha Opening, Soft Closing. 	1. 170	 Glass Products A. Primary Glass Standard: Provide primary glass requirements, including those indicated by reapplicable, form, finish, mesh and pattern. B. Sizes: Fabricate glass to sizes required for glass to sizes.
	 o. Puils: Basis of Design: Top Knobs, Square Bar Pull, 5 1/6" (C-C), brushed stainle 9. Shelf Rests: BHMA A156.9, B04013; metallic. 	SS IINISN	clearances and tolerances complying with rec Provide thicknesses indicated or, if not otherv
	 Drawer Slides: BHMA A156.9. A. Grade 1 and Grade 2: Side mounted and extending under bottom edge of 	of drawer; 2.	Clear Annealed Glass (A01 & T22): ASTM C 1036, T
	partial-extension type; epoxy-coated steel with polymer rollers.11. Drawer/Cabinet Locks: BHMA A156.11, E07041, prefer black satin steel finish fo	r exposed 3.	(ciear), quality q3 (glazing select). Safety Glazing (T01, T23); Where safety glazing is in
	metal hardware. Lockers to receive battery operated keypad for "hotelling" style a cabinets to receive locks.	access. All 4.	With 16 CFR 1201, Category II. General: Provide products of type indicated and com
_	 Door and Drawer Silencers: BHMA A156.16, L03011. Exposed Hardware Finishes: For exposed hardware, provide finish that complies 	with	A. Compatibility: Select glazing sealants and tap materials with which they will come into conta insulating glass units, and glazing channel su
_	 BHMA A156.18 for BHMA finish number indicated. A. Satin Chromium Plated: BHMA 626 for brass or bronze base; BHMA 652 base, unless otherwise noted. 14. Wall Panel: 	for steel	Glazing to be designed by manufacturer for stability a shown.
2:52 PM	 A. Plastic Laminate Faced Wood Paneling; RE: Finish Schedule a. Panel thickness: ³/₄ inches b. Panel core to be industrial grade M2 particle board used in Class panel composition. 15. Laminate Shelving 	II (B)	
10/31/2024 2:42	 A. Plastic Laminate Faced Shelving a. Panel Thickness: ³/₄ inches B. Adjustable Wall Mounted Brackets 16. Shelving BID ALTERNATE: A. Wall Mounted Wire Shelving BOD: ULINE Wall-Mount Wire Shelving 		
	Model No. H-6723 1		2

ante of this type are indicated, provide	NON-	-STRUC	TURA	L METAL FRAMING	wwith ASTM C 754 for conditio	ne indicat	od		GYPS	
I for sealing interior ceramic tile joints n-service exposures of high humidity following:	1.	A.	Stee othe Prof	el Sheet Components: Components: C erwise indicated. rective Coating: ASTM A	Comply with ASTM C 734 lor conduct Comply with ASTM C 645 requi	rements fo	or metal un	nless erwise	2.	Trim Ac A. B
	2.	Studs	s and F	Runners: ASTM C 645.						۵.
NS (nonsag).		A.	Stee a. b.	el Studs and Runners: Minimum Base-Meta Depth: 3-5/8-inches	al Thickness: 0.0296-inch (20 ç and 6-inches, minimum.	gauge).			3.	Joint Tr
, as applicable to joint substrates		B. C	Stee	el Framing Components	for Suspended and Furred Ce	ilings 1 for condi	tions indic	ated		A. B. C
e. xpansion joints.		D. E.	Wire	e Ties: ASTM A 641, Cla Hangers: ASTM A 641, Cla	ass 1 zinc coating, soft temper, . Class 1 zinc coating. soft temper	0.062-incl	h thick. 2-inch diar	neter.	4.	Tile Ba
ere joint sealants of this type are ving:		F.	Gric dire mer	l Suspension System for ct-hung grid suspension nbers that interlock to fo	r Interior Ceilings: ASTM C 645 system composed of main bea rm a modular supporting netwo	, manufac ams and c ork.	cturer's sta ross-furrir	andard Ig		A. B.
owing.	3.	Defle avpsi	ction T um boa	rack: Manufacturer's sta ard applied to interior pa	andard top runner designed to rtitions resulting from deflectior	prevent cra	acking of ucture ab	ove		
		fabric indica	ated fr ated fo	om steel sheet complyir r studs, and width to acc	ng with ASTM Ă 653 or ASTM a commodate depth of studs, and	A 568. Thi I of the foll	ckness as lowing	i	5.	Gypsun A.
NS (nonsag).		confiç A.	guratio Top com o.c. stru	n: runner with 2-1/2-inch-o press when pressure is that allow fasteners atta ctural movement by slip	deep flanges that either have V applied from construction abov ached to studs through the slots ping.	/-shaped c ve or have s to accom	offsets tha slots 1-in imodate	t ch		B.
	4.	Defle	ction a	nd Firestop Track: Top	runner designed to allow partiti	on heads	to expand	and		
lants, Inc.		contra Comp studs accor	act with bly with and w mmoda	n movement of structure n requirements of ASTM ridth to accommodate de ate gypsum board thickn	 above while maintaining conti C 645 except configuration, of epth of studs indicated with flar ess. 	nuity of the thickness iges offset	e assemble indicated t at midpo	y. for int to	6.	Wall Til A.
ChemRex, Inc.	5.	Faste	eners fo	or Metal Framing: Provid	le fasteners of type, material, s	ize, corros	sion resist	ance,		
		holdir secur manu	ng pow ely to s ifacture	ver, and other properties substrates involved; con ers for applications indic	required to fasten steel framin pplying with the recommendation ated.	g and furri ons of gyp	ing memb sum boar	ers d	7	Finishin
SDI A250.4. inimum thickness of 0.042-inch, with	DOO	R HARI	OWAR	E					7.	Finisnin A.
at minimum thickness of 16 gauge with	1.	Acces Stand	ssibility dards f	Requirements: Comply or Accessible Design an	with applicable provisions in the distribution of the distribution	ne DOJ's 2	2010 ADA			В.
/v Duty w/ Reinforced Hinge Supports	2.	Door of dea	Hardw sign. C	vare Schedule - Products ther products that meet	s listed by manufacturer's mode or exceed the grade, quality a	el number nd functior	provide a n may be	basis		C.
architect to provide color	3.	incor Keyin	porateo lg: Ver	d into the project. ify with Owner						D.
,		HARD For us	WARE se on D	GROUP NO. 01 oor #(s):						
		A10 Provic 3	5 le each EA	A106 A10 SGL door(s) with the follow HINGE	07 ving: 5BB1 4.5 X 4.5		652	IVE		E.
		1	EA	VANDL OFFICE LOCK	ND91 RHO (VERIFY KEYWAY)		626	SCH		
		3	EA	SILENCER	SR64		GRY	IVE		F.
		HARD For us	WARE se on D	GROUP NO. 02 oor #(s):						
appearance		Provid 3	le each EA	SGL door(s) with the follow HINGE	ving: 5BB1 4.5 X 4.5		652	IVE		G.
ok match. r Faces: Center-balance match.		1 1	EA EA	VANDL CLASSROOM LOCK OH STOP	ND94 RHO (VERIFY KEYWAY) 90S		626 689	SCH GLY		• • • •
onded.		1 3	EA EA	KICK PLATE SILENCER	8400 10" X 2" LDW B-CS SR64		630 GRY	IVE IVE	1	ر Summa
Heavy Duty.		HARD	WARE	GROUP NO. 03					1.	A. B.
		For us B10 Provid	e on De 1 le each	oor #(s): B102 SGL door(s) with the follow	ving:					C. D.
		3 1	EA EA	HINGE PRIVACY LOCK W/ OUTSIDE INDICATOR	5BB1 4.5 X 4.5 NRP ND40S RHO OS-OCC		652 626	IVE SCH	2.	Materia
		1 1 1	EA EA EA	WALL STOP SET GASKETING COAT AND HAT HOOK	WS406/407CCV 488SBK 582		630 BK 626	IVE ZER IVE		A. B. C. D.
ned-aluminum framing members of oport imposed loads.		HARD For us B10	WARE se on Do	GROUP NO. AL01 por #(s):					3.	E. Floor Ti
n gaskets on four sides.		Provid 1 1	le each EA EA	SGL door(s) with the follow CONT. HINGE POWER TRANSFER	ving: 157XY EPT10 CON	×	628 689	IVE VON		A.
vstem.		1	EA	ELEC PANIC HARDWARE	RX-QEL-XP98-NL-CON 24 VDC	×	626	VON		
backer plates for framing members, if		1 1	EA EA	OH STOP SURFACE CLOSER	100S ADJ 4040XP EDA TBWMS		630 689	GLY LCN		
tion.		1 1	EA SET	RAIN DRIP SEALS	142AA BY DOOR / FRAME MANUFACTURER		AA	ZER	4.	Wall Til A.
onents.		1 1 2	EA EA	DOOR SWEEP THRESHOLD WIRE HARNESS	39A VERIFY SILL CONDITION	~	A A	ZER ZER		
by manufacturer for type of use and		1 1 1	EA EA EA	CARD READER DOOR CONTACT POWER / LOW	BY SECURITY CONTRACTOR 7764 / 679-05 AS REQUIRED BY SECURITY	N N	BLK 628	SCE SCE VON		
Гubes: ASTM B 221. : ASTM B 429/B 429M. 08M.		DOOF AUTH ALLO	R IS NO ORIZE	VOLTAGE POWER RMALLY LOCKED. RESTR D CREDENTIAL AT OUTSI RY OR BY KEY.	CONTRACTOR RICTING ENTRY. DE CARD READER MOMENTARI	LY RETRAC	CTS LATCH	1 TO		
		SUF	PORT	BRACKETS	EGRESS.					
		1.	Su A. B.	mmary: Shelf support brac Counter and sill su	kets pport brackets					
ass which complies with ASTM C 1036		2.	Ma A.	aterials: Provide wall moun	ted, heavy duty, welded alumir	num brack	ets for sup	oporting the		
plazing openings indicated, with edge		tollo	wing s	uπaces: 1. Counter tops						
ecommendations of glass manufacturer. rwise indicated, as recommended by				 Work surfaces. Vanities. 						
Type I (transparent glass, flat), Class 1		3. shel	Wa Ty f supp	5. Shelves. all Mounted Standards pe: Channel type, extruc ort brackets inserted into	ded aluminum standard mount	ed on wall and slid to	s and des	igned to hold		
ndicated, provide glazing that complies		4.	1. Pro	Mounting: ofiles: Recessed	Recessed.					
nplying with the following requirements:										

azing sealants and tape ey will come into contact, including glass products, seals of and glazing channel substrates. nufacturer for stability and structural integrity of sizes as

ARD AND TILE BACKING PANELS

m Wallboard: ASTM C 1396 Type X 5/8 inch.

ccessories:

Cornerbead, edge trim, and control joints formed metal steel sheet zinc. Shapes:

a. Cornerbead on outside corners.

LC-bead for edge trim. One-piece control joint V- shaped slot; spacing at 30' o.c. maximum. C.

reatment:

Paper reinforcing tape. Drying-Type Joint Compounds: Vinyl-based.

Ready-Mixed.

cking Panels:

Panel Size: Provide in maximum lengths and widths available that will minimize joints in each area and correspond with support system indicated.

- Glass-Mat, Water-Resistant Backing Board:
- a. Complying with ASTM C 1178. b. Core: 5/8-inch, Type X.

m Board Applications Methods:

On ceilings, apply gypsum panels prior to wall/partition board application to the greatest extent possible and at right angles to framing, unless otherwise indicated. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing),

unless parallel application is required for fire-resistance-rated assemblies. Use maximum length panels to minimize end joints. a. Stagger abutting end joints not less than one framing member in alternate

courses of board. b. At high walls, install panels horizontally.

ile Substrates

Wall Tile Substrates: For substrates indicated to receive ceramic tile and similar rigid applied wall finishes, comply with the following:

a. Paperless Gypsum Backing Board: Install where indicated. Install with 1/4-

inch gap where panels abut other construction or penetrations. b. Where tile backing panels abut other types of panels in the same plane,

shim surfaces to produce a uniform plane across panel surfaces.

ng Gypsum Board Assemblies

General: Treat gypsum board joints, interior angles, flanges of cornerbead, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Prefill open joints, rounded or beveled edges, and damaged areas using setting-

type joint compound. Apply joint tape over gypsum board joints, except those with trim accessories

having flanges not requiring tape. Levels of Gypsum Board Finish: Provide the following levels of gypsum board finish

per GA-214. a. Level 1 for ceiling plenum areas, concealed areas, and where indicated, unless a higher level of finish is required for fire-resistance-rated assemblies

and sound-rated assemblies. b. Level 5 for gypsum board surfaces, unless otherwise indicated.

Use the following joint compound combination for the finish levels specified: a. Embedding and First Coat: Setting-type joint compound. Fill (Second) Coat: Setting-type joint compound. Finish (Third) Coat: Sandable, setting-type

joint compound. For Level 5 gypsum board finish, embed tape in joint compound and apply first, fill (second), and finish (third) coats of joint compound over joints, angles, fastener heads, and accessories. Touch up and sand between coats and after last coat as needed to produce a surface free of visual defects and ready for decoration. Where Level 1 gypsum board finish is indicated, embed tape in joint compound. Finish tile backer units to comply with unit manufacturer's directions.

Porcelain floor tile.

Ceramic glazed wall tile.

Metal transitions installed as part of tile installations per details. Crack-suppression membrane.

Porcelain Tile Shapes: Refer to Finish Legend. Glazed Wall Tile Shapes: Refer to Finish Legend.

Metal transitions.

Crack-Suppression Membranes: Chlorinated polyethylene sheet. Elastomeric Sealants: One-part, mildew-resistant silicone.

File Installation Schedule:

Interior Floors on Concrete Slabs on grade: Thinset over cleavage membrane

TCNA F125A. a. Tile Type: Unglazed porcelain mosaic tile.

Mortar: Latex-portland cement mortar bond coat. b.

- Crack Isolation Membrane or waterproof membrane at toilets C.
- Grout: Epoxy. d.

4

le Installation Schedule:

Interior Walls over Paperless Gypsum Backer Units/ Metal Studs: Thin-set mortar

TCNA W245. a. Tile Type: Glazed wall tile.

- Mortar: Latex-portland cement mortar. b.
- Grout: Epoxy. C. Transition of Wall to Floor: See Details d.



G700

RESILIENT BASE

1. Rubber Wall Base: Cove with top-set toe, 1/8-inch thick, 4-inch high. Corners: job formed.

- 2. Installation Accessories Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-Α. based formulation provided or approved by resilient product manufacturer for applications indicated.
 - Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
- 3. General: Install resilient products according to manufacturer's written installation instructions.
- Use trowelable leveling and patching compounds, according to manufacturer's written 4. instructions, to fill cracks, holes, and depressions in substrates.
- Apply resilient wall base to walls and other permanent fixtures in rooms and areas where base is required. A. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.

CARPET TILE

A

- 1. Design Standard: Subject to compliance with requirements, products that may be incorporated into the Work include the products scheduled or equal as determined by the Architect.
- Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based 2. formulation provided by or recommended by carpet tile manufacturer.
- Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and that is recommended by carpet tile manufacturer.
- A. VOC Limits: Provide adhesives that comply with the following limits for VOC content when tested according to ASTM D 5116
 - a. Total VOCs: 10.00 mg/sq. m x h. Formaldehyde: 0.05 mg/sq. m x h.
 - 2-Ethyl-1-Hexanol: 3.00 mg/sq. m x h.

4. Examination: В

- Examine substrates, areas, and conditions for compliance with requirements for Α. maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance. Verify that substrates and conditions are satisfactory for carpet tile installation and comply with requirements specified. Concrete Slabs: Verify that concrete slabs comply with ASTM F 710 and that slabs are free of cracks, ridges, depressions and scale, and dry, free of curing compounds, sealers, hardeners, and other materials that may interfere with
- adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet tile manufacturer. Proceed with installation only after unsatisfactory conditions have been corrected. C.
- 5. Preparation:
 - General: Comply with CRI 104, Section 6.2, "Site Conditions; Floor Preparation," Α. and carpet tile manufacturer's written installation instructions for preparing
 - substrates indicated to receive carpet tile installation. Use trowelable leveling and patching compounds, according to manufacturer's В. written instructions, to fill cracks, holes, and depressions in substrates.
- Remove coatings, including curing compounds, and other substances that are C. incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturers.
- 6. Broom and vacuum clean substrates to be covered immediately before installing carpet tile. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Proceed with installation only after unsatisfactory conditions have been corrected. methods recommended in writing by carpet tile manufacturer.

7. Installation:

С

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- General: Comply with CRI 104, Section 13, "Carpet Modules (Tiles)." Installation Method: As recommended in writing by carpet tile manufacturer for Glue-Β.
- down; install every tile with releasable adhesive. C. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and builtin furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind
- or seal cut edges as recommended by carpet tile manufacturer. D. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed
- obstructions, removable flanges, alcoves, and similar openings. Maintain reference markers, holes, and openings that are in place or marked for
- future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device. Install pattern parallel to walls and borders unless otherwise indicated.

	ACOL	JSTICAL CEIL	ING			b. c. d	American Sp Bobrick Was
	1.	Seismic Cate	egory: D			и. e.	GAMCO Spe
	2.	Panels: A. 2'x4' a. b. c.	Manufacturer: Armstrong Mesa or equal. Panel Size: 24" x 48" Color: White Light reflectance Coefficient: Not less than LR 0.85		B. C. D. E.	Moun Door tumbl Rece _l Mater	ting: Surface n or Cover: Self- er lockset. ptacle: Remova ial and Finish:
		d. e. f. g.	Noise Reduction Coefficient: NRC 0.60 Sound Blocking: CAC 38 Edge Detail: Angled Tegular Thickness: 3/4-inch	MIRF 1.	≀ORS Basis∘ 2436.	-of-Desi MBLK: :	gn Product: Su 24″ W x 36″ H
D	1.	Suspension A. Com galva Main desiç a.	Systems ponents: All main beams and Tees shall be commercial quality hot dipped anized steel (galvanized steel, aluminum, or stainless steel) per ASTM A 653. beams and cross tees are double-web steel construction. G01 (Z001) coating gnation, with prefinished exposed tee. Size: 9/16" wide.	2. 3. 4.	A. B. C. D. Frame Corne Integr	A&J V Ameri Bobric Bradle e: Stainl ers: Mite al Shelf	Vashroom Acc ican Specialties ck Washroom E ey Corporation ess-steel chan red and mecha : none
e.rvt		A. Attac 1, Di B. Struc C. Acce a. b.	chment Devices: Size for five times design load indicated in ASTM C 635, Table rect Hung unless otherwise indicated. ctural Classification: Heavy-duty system. essories/Edge Moldings and Trim: Cap trim to conceal open edges Seismic Clips: Manufacturer's standard clip.	5. one c	Hango of the me A. B.	ers: Pro thods in One-p mech Wall t a spe	duce rigid, tam idicated below. piece, galvanize anism to hold r pracket of galva cial tool to rem
ew Spac		c. D. Corn	Wall Angle: 7/8-inch. ier transitions: Stainless Steel Bar spline at corners.	6. PAIN	Sizes: ITING	:24"x36	", vertical hung
en Center_N	1.	Measure ead opposite edg Architect if a	ch wall area and establish layout of acoustical units to balance border widths at ges of each wall. Avoid use of less than half width units at borders. Verify with lignment doesn't allow less than half width unit at border.	1.	Gypsı a prim	um Boar ter, exce	^r d Walls and Co ept where note
Vest Jordan HS Te	FIRE	SPRINKLERS A. Fire	Sprinkler Design to be deferred.		А. В.	Prime First a sprea thickn a.	r: ProMar 200 and Second Co ding rate recor less of not less 1st coat: Pro
15 V	ACOL	JSTICAL CEIL	ING Cont.			D.	Znd coat: Pro
Center/A24_20245	1.	Installation: A. Insta draw man Hand B. Insta	Ill suspension system and panels in compliance with approved construction vings; with the authorities having jurisdiction; in accordance with the ufacturer's installation instructions, and according to CISCA's "Ceiling Systems dbook."	2.	Gypsi A. B.	um Boar Prime Two f thickn a.	rd Walls and Co r: ProMar 200 inish coats, app iess. 1st coat: Pro
lan HS Teen		form mold C. Follo	ed framing for wall and vertical surfaces transitions. Miter corners where wall lings intersect or install corner caps. we the instructions from manufacturers of panels.			b.	g/L VOC. 2nd coat: Pr g/L VOC.
SD West Jord		D. Cut p edge	banel edges that are exposed to view will have to be treated to look like factory as.	3.	Ferrou under A.	us Meta coater a Prime manu	I: Provide Sem and a primer. ar: Quick-drying

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RESILIENT TILE FLOORING

C.

SOLID	SURFACES
A.	Quality Standard: Comply with AWI Section 11 of NAAWS STANDARDS requirements for countertops
В.	 Premium Grade. Products: Subject to compliance with requirements, including color and pattern, products are limited to the following: Wilsonart
	 E.I. Du Pont De Nemours and Company Formica Corporation Avanita Surfacea
C.	 Avointe Surfaces 5. Hanex Solid Surfaces Colors, Patterns, and Finishes: Provide materials and products that result in colors of solid
D.	surfacing material complying with the following requirements: 1. Match Product indicated in Finish Schedule. Material Thickness; 1/2" inch. Front edge Profile: 1-1/2 inch
TOILE	T AND BATH ACCESSORIES
1.	Grab Bars: A Basis-of-Design Product: Subject to compliance with requirements, provide Bobric
	 B-6806 or comparable product by one of the following: a. A&J Washroom Accessories, Inc. b. American Specialties, Inc.; ASI Group. c. Bobrick Washroom Equipment, Inc.
2. 3.	e. GAMCO Specialty Accessories; a division of Bobrick. Mounting: Flanges with concealed fasteners. Material: Stainless steel, 0.05 inchthick.
	 A. Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area. B. Outside Diameter: 1-1/2 inches. C. Configuration and Length: As indicated on Drawings.
4.	Grab Bar Installation A. Install to comply with structural-performance requirements.
1.	 Shower Curtain Rod: Provide stainless-steel shower curtain rod with 3-inch stainless-steel flanges designed for exposed fasteners, in length required for shower opening indicated, and complying with the following: A. Heavy-Duty Rod: 1-1/4-inch OD; fabricated from nominal 0.05-inch-thick stainless steel.
2.	 Shower Curtain: Provide shower curtain complying with the following: A. Antibacterial Shower Curtain: Minimum 10-oz., nylon-reinforced vinyl or 0.008-inch thick vinyl material with integral antibacterial agent and corrosion-resistant grommer at minimum 6 inches o.c. through top hem. a. Size: Minimum 12-inches wider than opening by 72-inches high. b. Color: White
3.	Shower Curtain Hooks: Chrome-plated or stainless-steel, spring wire curtain hooks with snap fasteners, sized to accommodate specified curtain rod. Provide one hook per curtain grommet.
4.	 Folding Shower Seat: Provide heavy-duty hinged seat designed to fold up against wall who not in use with stainless-steel support braces, hinges, frame, and fasteners; of all-welded construction; and complying with the following: A. Products: Bobrick B-5181. B. Configuration: L-shaped seat, designed for wheelchair access.
	 a. Color as selected by Architect from manufacturer's full range.
5.	 Robe Hook adjacent to Shower: Provide double-prong hook complying with the following: A. Double-Prong Unit: Satin stainless, robe hook with rectangular wall bracket and backplate for concealed mounting. B. Products: Bobrick B-7672.
6.	 Soap Dish: Provide heavy-duty soap dish and bar complying with the following: A. Products: B-4390. B. Description: With washcloth bar. C. Mounting: Recessed
7.	 D. Material and Finish: Stainless steel, No. 4 finish (satin). Sanitary-Napkin Disposal Unit: A. Basis-of-Design Product: Subject to compliance with requirements, provide Bobrick B-254 or comparable product by one of the following: a. A&J Washroom Accessories, Inc. b. American Specialties, Inc.; ASI Group.
	 c. Bobrick Washroom Equipment, Inc. d. Bradley Corporation. e. GAMCO Specialty Accessories; a division of Bobrick.
	 B. Mounting: Surface mounted. C. Door or Cover: Self-closing, disposal-opening cover and hinged face panel with
	 D. Receptacle: Removable. E. Material and Finish: Stainless steel, No. 4 finish (satin).
MIRRC	DRS
1.	Basis-of-Design Product: Subject to compliance with requirements, provide B-290 2436.MBLK: $24"Wx 36"H$ or comparable product by one of the following: A. A&J Washroom Accessories, Inc.
	 B. American Specialties, Inc.; ASI Group. C. Bobrick Washroom Equipment, Inc. D. Bradley Corporation
2. 3.	Frame: Stainless-steel channel with matte black finish. Corners: Mitered and mechanically interlocked.
4. 5.	Integral Shelf: none Hangers: Produce rigid, tamper- and theft-resistant installation, at Contractor's option, usin the methods indicated below
one of	 A. One-piece, galvanized-steel, wall-hanger device with spring-action locking mechanism to hold mirror unit in position with no exposed screws or bolts. B. Wall bracket of galvanized steel, equipped with concealed locking devices requirin
6.	a special tool to remove. Sizes: 24"x36", vertical hung, as indicated on drawings.
PAIN I 1.	Gypsum Board Walls and Ceilings: Provide Low-Luster, Acrylic-Enamel, 2 finish coats ove a primer, except where noted otherwise:
	 A. Primer: ProMar 200 Zero VOC Interior Latex Primer, B28W-2600 0 g/L VOC B. First and Second Coats: Semi-Gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.8 mils.
	 a. 1st coat: ProMar 200 Zero VOC Semi-Gloss B26-2600 series, 0 g/L VOC. b. 2nd coat: ProMar 200 Zero VOC Semi-Gloss B26-2600 series, 0 g/L VOC.
2.	 Gypsum Board VValls and Ceilings: Provide Epoxy Coating, 2 coats over a primer. A. Primer: ProMar 200 Zero VOC Primer, B28W2600, 0 g/L VOC B. Two finish coats, applied at a dry film thickness not less than 1.5 mil dry film thickness.
	 a. Tist coat: Pro industrial Water-Based Epoxy Eg-Shel, B73-360 series, <50 g/L VOC. b. 2nd coat: Pro Industrial Water-Based Epoxy Eg-Shel, B73-360 series, <50 g/L VOC.
3.	Ferrous Metal: Provide Semi-gloss, Enamel Finish, one finish coat over an enamel undercoater and a primer.
	 A. Primer: Quick-drying, rust-inhibitive, alkyd-based primer, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.5 mils. B. Primer: Pro Industrial Pro-Cryl Universal Primer, B66-310 series, <100 g/L VOC. C. Finish Coat: Semigloss, enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.3 mils.

Solid vinyl floor tile: Confirm with School District of attic stock to repair and patch damaged floor tiles as needed.

l fasteners. thick.

curtain complying with the following: ain: Minimum 10-oz., nylon-reinforced vinyl or 0.008-inchtegral antibacterial agent and corrosion-resistant grommets hrough top hem.

inhibitive, alkyd-based primer, as recommended by the trate, applied at spreading rate recommended by the total dry film thickness of not less than 1.5 mils. -Cryl Universal Primer, B66-310 series, <100 g/L VOC. namel applied at spreading rate recommended by the a total dry film thickness of not less than 1.3 mils. 1st coat: Pro Industrial Acrylic Semi-Gloss, B66-650 series, 0 g/L VOC. 2nd coat: Pro Industrial Acrylic Semi-Gloss, B66-650 series, 0 g/L VOC.

TACKABLE WALLCOVERING

1. PRODUCTS Basis of Design Product: Subject to compliance with requirements, provide Α. Walltalkers, Tac-Wall, or comparable product approved prior to bid.

MATERIALS Uni-color resilient homogeneous tackable linoleum surface consisting of linseed oil, granulated cork, rosin binders, and dry pigments calendered onto natural burlap backing.

Color shall extend through thickness of material. Roll Width: 48 inches or 72 inches, as required for application.

Thickness: 1/4 inch. Color: As indicated on Drawings.

- 4. Adhesive: Solvent-free, SBR type linoleum adhesive (L-910) or polyvinylacetate dispersion
- type (contact adhesive) when used in a press. Trim for Tackable Wall:
 - Manufacturer's standard 'J' trim. Finish: Clear satin, anodized aluminum R
 - C. Size: 1/4 inch.

FIRE EXTINGUISHERS

1. Multipurpose Dry-Chemical Type: UL-rated 4-A:60-B:C, 10-lb nominal capacity, in enameled-steel container.

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Α

GENERAL SHEET NOTES

1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE AND BUILDING CONDITIONS INCLUDING BUT NOT LIMITED TO UNDERGROUND UTILITIES AND SERVICE LINES, IRRIGATION LINES AND SUB SURFACE STRUCTURES AND ALL OTHER EXISTING CONSTRUCTION BOTH ABOVE AND BELOW GRADE.

2. GENERAL CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE DURING BOTH DEMOLITION AND NEW CONSTRUCTION WORK AND SHALL REPAIR ANY DAMAGE RESULTING FROM THIS WORK.

GENERAL DEMOLITION NOTES

Existing Conditions: Verify existing site and building conditions including but not limited to underground utilities and service lines, irrigation lines, sub-surface structures and all other existing construction both above and below grade.

Protection: Protect existing construction to remain from damage during demolition and new construction work. Repair any damage resulting from this work.

Protect in-place, existing mechanical, plumbing and electrical systems above ceilings that are not shown to be removed. This includes, but is not limited to: network cabling, coax cabling, conduits, piping, ductwork, etc.

When removing concrete slabs on grade, take all necessary precautions to protect electrical lines in or under those slabs.

Site Access: Coordinate phased access to the site with the Owner, including times of restricted access.

Coordination: Coordinate extent of walls to be removed with architectural floor

Masonry Walls: Where masonry walls are demolished, clean and repair newly exposed surfaces to match adjacent wall finish.

Salvage: Review with the owner, casework, furniture, equipment and wall mounted display surfaces left behind after owner move out, that are not shown on drawings. Identify as either salvage or to be disposed of by contractor.

Where indicated to be removed, salvage whiteboards and tack boards for reuse,

Where indicated to be removed, salvage undamaged acoustical ceiling panels for use in repair, patching and modifications of existing ceilings. Use only in ceilings where panels match.

Verify that existing equipment that is to remain, to be salvaged or to be re-installed, is in working condition. Provide written documentation to the Owner for any items that are not in working condition before beginning work in the area.

LEGEND - DEMOLITION

AREA OF NO WORK

EXISTING TO REMAIN

EXISTING LIGHTING

REUSED AS NOTED

TO BE REMOVED AND

WALLS & OTHER ITEMS

EXISTING SUSPENDED GB CEILING TO BE REMOVED;

NEW PERIMETER TRIM TO BE ADDED @ NEW WALLS

SAW CUT AND REMOVE FLOOR SLAB AS INDICATED REPLACE CONCRETE AS NEEDED, KEEP FLUSH TO ADJACENT SURFACES UNO.

EXISTING FLOOR TILE TO BE REMOVED, SURFACE TO BE PREPPED FOR CARPET INSTALL

TO BE DEMOLISHED

EXISTING CABINETS & COUNTER TOP TO BE REUSED AND REINSTALLED TO NEW WALL LOCATION

EXISTING CARPET TILE TO BE REMOVED, SURFACE TO BE PREPPED FOR NEW CARPET INSTALL

NOTE: WHERE WALLS AND OTHER ITEMS ARE SHOWN WITH DASHED LINES, WHETHER KEYNOTED OR NOT, REMOVE THESE ITEMS TO THE EXTENT INDICATED AND AS REQUIRED BY NEW



<u>BUILDING KEYPLAN</u>







SEE MECHANICAL

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ANC	HORS IN CONCRET		
GE ac)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
	3.1/4"	5"	3"
	4"	6.1/4"	3.1/2"
	5.1/2"	8.1/2"	3.3/4"
	6.1/4"	10"	4.1/2"
ily W L of T Ient L Valui Iickni	HERE SPECIFICALLY R THE STRUCTURAL ENG ENGTHS, H nom, AND A ES IN THIS SCHEDULE. ESS OF THE EXISTING SS MUST BE APPROVE	EFERENCED ON THE D INEER. ANCHOR SPACING SPE CONCRETE MEMBER D D BY THE STRUCTURA	RAWINGS AND AT CIFIED ON PLANS OR OES NOT MEET THE L ENGINEER PRIOR
DURIN HOR	NG INSTALLATION OF A AND THE QUALITY ASS	LL SCREW ANCHORS F URANCE SECTION OF 1	'ER THE CODE THE GENERAL
FOR	LIST OF APPROVED AN	ICHORS AND OTHER RI	EQUIREMENTS FOR
ISED	IN INTERIOR DRY LOCA	TIONS	





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							DOC	R AND FRAM	E SCHEDULE	E		
			DOOR		FRAME						0	
DOOR #	ТҮРЕ	WIDTH	HEIGHT	THICKNESS	MATERIAL	түре	MATERIAL	JAMB DETA	HEAD DETA	SILL DETAIL	HDW GROUF	
I												
A105	FG	3' - 0"	7' - 0"	1 3/4"	WD	2	HM	D2/A600	C2/A600	C1/A600	01	
A106	FG	3' - 0"	7' - 0"	1 3/4"	WD	2	HM	D2/A600	C2/A600	C1/A600	01	
A107	FG	3' - 0"	7' - 0"	1 3/4"	WD	2	HM	D2/A600	C2/A600	C1/A600	01	
A111	F	3' - 0"	7' - 0"	2"	WD	1	HM	D2/A600	C2/A600	C1/A600	02	
B101	F	3' - 0"	7' - 0"	2"	WD	1	HM	D2/A600	C2/A600	C1/A600	03	
B102	F	3' - 0"	7' - 0"	2"	WD	1	HM	D2/A600	C2/A600	C1/A600	03	
B103	FG	3' - 8"	7' - 0"	1 3/4"	AL	3	AL	A4/A600	A4/A600	E3/A600	AL01	BID ALTE

*DOORS LABELED ON THE PLAN WITH AN "E" ARE EXISTING TO REMAIN AND ARE UNCHANGED.









DOOR AND FRAME LEGEND



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BOTTOM RAIL (RE: DOOR TYPE)

SCHEDULED FINISH DOOR SWEEP ALUMINUM THRESHOLD (SET IN FULL BED OF MASTIC)

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GLAZING SCHEDULES									
GLAZING TYPE									
6mm (1/4") CLEAR ANNEALED FLOAT GLASS									
6mm (1/4") CLEAR TEMPERED ANNEALED GLASS									
1" LOW-E COATED, CLEAR ANNEALED INSULATING GLASS									
1" LOW-E COATED, CLEAR TEMPERED INSULATING GLASS									

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WINDOW TYPE 1









OBSTRUCTED HIGH SIDE REACH ADA REACH RANGES

LAUNDRY CONTROLS ADA FRONT LOAD LAUNDRY UNIT, OFOI REQ. LAUNDRY PEDESTAL FOR ADA; TYPICAL STUD WALLS - UNO DOOR PLACEMENT LAUNDRY ELEVATION D5 DOOR PL SCALE: 3/4" = 1'-0" ALIGN

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ALIGN FINISH FACE OF NEW WALL WITH FINISH FACE OF EXISTING WALL WHERE NOTED THUS.

WALL TO WALL ALIGNMENT E5 SCALE: 3" = 1'-0"



					F	FINISH S	SCHEDI	JLE1				
					W	ALL				T		
RM#	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH	WEST WALL FINISH	Ceiling Finish	CABINET FINISH	COUNTER TOP FINIS	REMARKS	RM #
A 1 0 1						DT4						A 4 0 4
A101		SEE PLAN								001		A101
A 102										SS1 SS1		A102
A 103		SEE PLAN								001 001		A103
A 104									FLI	331		A104
A105					DT5	PT5						A105
A100					DTE	DT5						A100
A107				DT3	DT1	DT1	DT1			SS 1		Δ108
A109	CONSELOR HUB	SEE PLAN	RB1	PT1	PT3	PT1	PT1	SEE RCP		001		A100
A110	OFFICE	SEE PLAN	RB1	PT5	PT5	PT5	PT5	SEE RCP				A110
A111	PANTRY	SEE PLAN	RB1	PT1	PT1	PT1	PT1	SEE RCP				A111
B101	RESTROOM	SEE PLAN	WT1, WT2	WT1, WT2, PT1	WT1, WT2, PT1	WT1, WT2, PT1	WT1, WT2, PT1	SEE RCP	PL1	SS1		B101
B102	RESTROOM	SEE PLAN	WT1, WT2	WT1, WT2, PT1	WT1, WT2, PT1	WT1, WT2, PT1	WT1, WT2, PT1	SEE RCP	PL1	SS1		B102
E111	JAN.	SEE PLAN						SEE RCP				E111

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FINISH SCHEDULE LEGEND

FLOOR FINI	SHES			BASIS	G-OF-DESIGN	
CALL OUT	DESCRIPTION	SPEC SECTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS
FT1	2x2" Mosaic Tile	093013	Desert Gray Speckle D200	Daltile	Keystones	Grout: Custom Building Products, Charcoal #60 - 1/8" grout spacing
CPT1	9"x36" Carpet Plank	096813	Wild Flora 05411	Shaw Contract	Observe Color Tile 5T309	monolithic installation
BASE						
RB1	4" Rubber Base, Coved	096513	100 Black	Roppe	Pinnacle Rubber Base, Standard toe 5/8"	

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WALL FINIS	SHES			BASIS	-OF-DESIGN	
CALL OUT	DESCRIPTION	SPEC SECTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS
WT1	6x6 Tile	093013	Sea Breeze Square, Glossy	Daltile	Color Wheel Classic	Grout: Custom Building Products, Charcoal #60 - 1/8" grout spacing
WT2	6x6 Tile	093013	Waterfall Square, Glossy	Daltile	Color Wheel Classic	Grout: Custom Building Products, Charcoal #60 - 1/8" grout spacing

CEILING FIN	ISHES			BASIS	-OF-DESIGN	
CALL OUT	DESCRIPTION	SPEC SECTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS
ACP1	24"x48" Acoustical Ceiling Panel	095113	White	Armstrong	Product: Mesa 3/4" thick Edge Detail: Angled Tegular 15/16	Accessories: white grid, use 4" white Axiom trim when cloud edge exposed
GB1	Painted Gypsum board - WHITE	099123	Painted PT1			
GB2	Epoxy Painted Gypsum board BATHROOMS	099123	Painted PT1			
RS1	Rollershades		Silver Birch 0819	Mecho Shade	3% open	

MISCELLAN	EOUS FINISHES			BASIS	-OF-DESIGN	
CALL OUT	DESCRIPTION	SPEC SECTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS
PL1	Plastic Laminate wood look	064023	selected by architect	Wilsonart	HDPL	Casework/doors - Run wood grain vertically
SS1	Solid Surface counter	064023	selected by architect	Wilsonart		
PT1	Paint WHITE	099123	SW 7004 Snowbound	Sherwin-Williams	Latex, low-VOC, semi-gloss	Field
PT2	Paint WHITE EPOXY	099123	SW 7004 Snowbound	Sherwin-Williams	Latex, low-VOC, semi-gloss	
PT3	Paint BLUE	099123	selected by architect	Sherwin-Williams	Latex, low-VOC, semi-gloss	
PT4	Paint BLACK	099123	selected by architect	Sherwin-Williams	Latex, low-VOC, gloss	
PT5	Paint GREY	099123	selected by architect	Sherwin-Williams	Latex, low-VOC, semi-gloss	
CG1	Corner Guards	093013	Stainless steel			8' height
TR1	FLOOR TRANSITION STRIP	096513	100 Black	Roppe		8' height





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VCT TILE (EXISTING TO REMAIN PATCH AND REPAIR AS NEEDED,

FLOORING TO BE REPLACED BY BACKSTOCK; COORDINATE



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PRODUCTS:

WORK SHALL INCLUDE A NEW EXHAUST, VENTILATION, AND DUCT SYSTEMS, AND ALL MATERIALS, EQUIPMEN REQUIRED TO COMPLETE THE SYSTEMS SHOWN ON PLANS AND SPECIFIED HEREIN.

DUCTWORK ALL CONSTRUCTION DETAILS SHALL COMPLY WITH THE LATEST EDITION OF THE SMACNA SHEET METAL STAN

FLEXIBLE CONNECTION: PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET CONNECTION OF EACH FAN UNIT.

TEST HOLES AND DUCT PORTS: FURNISH TEST HOLES AND DUCT PORTS FOR TESTING OF AIR QUANTITIES IN DUCTS.

DUCT LINER: LOW PRESSURE RECTANGULAR DUCTS:

THE INTERIOR SURFACE OF ALL LOW PRESSURE SUPPLY AND RETURN AIR DUCTS SHALL BE LINED WITH 1" TH DUAL DENSITY DUCT LINER.

LOW PRESSURE ROUND DUCTS: ALL ROUND METAL DUCTS SHALL BE WRAPPED WITH 1" THICK FIBERGLASS DUCT WRAP WITH FACTORY-APPLI BARRIER (SEE 15180).

LOW PRESSURE FLEXIBLE DUCTS: INSULATED LOW VELOCITY FLEXIBLE DUCTS SHALL BE GENFLEX TYPE SL-1.

REGISTERS, GRILLES, AND DIFFUSERS: SUPPLY AIR REGISTERS:

ALL UNITS TO HAVE AIR DEFLECTION, WITH REMOVABLE CORES. UNITS SHALL BE PRICE, AIR GUIDE, CARNES, KRUEGER, OR AGITAIR.

RETURN, EXHAUST & TRANSFER AIR GRILLES: ALL UNITS TO BE STEEL OR ALUMINUM CONSTRUCTION. ALL CORES SHALL BE REMOVABLE. REGISTERS SHAL GUIDE, CARNES, TITUS, WATERLOO, KRUEGER, AND AGITAIR.

CEILING DIFFUSERS: ALL CEILING DIFFUSERS SHALL BE OF THE AIR PATTERN INDICATED ON THE DRAWINGS. UNITS SHALL BE STE WITH INNER ASSEMBLY EASILY REMOVABLE FROM OUTER FRAME WITHOUT SPECIAL TOOLS. DIFFUSERS SHA GUIDE, CARNES, TITUS, AGITAIR, KRUEGER, OR WATERLOO.

CEILING TYPE: FURNISH AND INSTALL COMPLETE THE CEILING MOUNTED EXHAUST FANS SHOWN AND SPECIFIED ON THE DR FAN SHALL HAVE ACOUSTICALLY INSULATED HOUSING FOR QUIET OPERATION. AIR DELIVERIES SHALL BE AS DRAWINGS AND SHALL BE CERTIFIED BY AMCA PERFORMANCE TESTS.

FAN SHALL HAVE CENTRIFUGAL WHEEL DIRECT CONNECTED TO MOTOR. CEILING GRILLE SHALL BE ALL ALUM CONSTRUCTION WITH SATIN FINISH. ENTIRE FAN, MOTOR, AND WHEEL ASSEMBLY SHALL BE REMOVABLE WIT THE HOUSING. FAN SPEEDS SHALL NOT EXCEED 1100 RPM. UNIT SHALL BE COMPLETE WITH BACKDRAFT DAM FAN SHALL BE GREENHECK, TWIN CITY, COOK OR PENN.

DAMPERS <u>GENERAL:</u> DAMPER FRAMES SHALL BE OF NOT LESS THAN 13 GAUGE GALVANIZED STEEL, FORMED FOR EXTRA STRENG MOUNTING HOLES FOR ENCLOSED DUCT MOUNTING. EXECUTION:

SHEET METAL INSTALLATION: <u>GENERAL</u>

ALL NECESSARY ALLOWANCE AND PROVISIONS SHALL BE MADE IN THE INSTALLATION OF SHEET METAL DUCT STRUCTURAL CONDITIONS OF THE BUILDING, AND DUCTS SHALL BE TRANSFORMED OR DIVIDED, AS MAY BE F

TESTING: THE SHEETMETAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO T DUCTWORK. TEST DUCTWORK TO SMACNA STANDARDS. CLEANING OF DUCTS:

BEFORE THE CEILING IS INSTALLED AND FINAL CONNECTIONS ARE MADE TO THE OUTLETS, IT WILL BE REQUIR BE OPERATED AT FULL CAPACITY TO BLOW OUT DIRT AND DEBRIS FROM DUCTS.

SECTION 251000 – AUTOMATIC TEMPERATURE CONTROLS

BASE BID SYSTEM A WEB BASED, PASSWORD PROTECTED DDC AUTOMATIC TEMPERATURE CONTROLS SHALL BE FURNISHED A PART OF THIS CONTRACT TO GIVE THE OWNER A COMPLETELY OPERABLE SYSTEM ACCEPTABLE MANUFACTURER AND INSTALLERS (AS AN EXTENSION OF THE EXISTING SYSTEM): ECOSTRUXURE, AS SUPPLIED AND INSTALLED BY UTAH YAMAS CONTROLS, INC. SLC.

BIDDER MUST COMPLY WITH ALL REQUIREMENTS OF BIDDING DOCUMENTS TO REMAIN CONSISTENT WITH TH AUTOMATION SYSTEM. ANY DEVIATION OR ALTERNATIONS WILL NOT BE PERMITTED. NO SUBSTITUTIONS OR V THE BID DOCUMENTS OR THE APPROVED INSTALLERS AND/OR MANUFACTURES WILL BE PERMITTED.

ALL SYSTEMS, COMPONENTS AND PROGRAMS/PROGRAMMING LICENSING SHALL BE PROVIDED TO JORDAN S FOR A PERIOD OF NO LESS THAN 15 YEARS AS A PART OF THIS BID. ALL SOFTWARE UPGRADES AND UPDATES AVAILABLE SHALL BE PROVIDED TO JORDAN SCHOOL DISTRICT FO LESS THAN 15 YEARS AS A PART OF THIS BID.

A DETAILED POINTS LIST SHALL BE PROVIDED BY THE CONTRACTOR WITH THEIR BID.

ROOM THERMOSTATS

WALL-MOUNTED SPACE TEMPERATURE THERMOSTAT. NO VISIBLE READOUT OR ADJUSTMENT AT THERMOST RANGE SHALL BE ADJUSTABLE BY OWNER VIA BUILDING CONTROL SYSTEM. FLAT PLATE, STAINLESS STEEL PL WILL NOT BE ACCEPTED.

THERMOSTATS SHALL BE LOCATED ON INTERIOR STUD WALLS WHEREVER POSSIBLE.

STANDARDIZED LOCATIONS AND MOUNTING HEIGHTS SHALL BE PREDETERMINED WITH OWNER PRIOR TO RO EXHAUST FAN - KITCHEN THE KITCHEN EXHAUST FAN SHALL BE CONTROLLED BY A WALL SWITCH WITH 0-2-HOUR TIMER WITH INDICATIN FURNISHED AND INSTALLED BY THE ATC CONTRACTOR.

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IT, AND LABOR	MATERIALS, EQUIPMENT AND ACCESSORIES: UNLESS OTHERWISE SPECIFIED, ALL EQUIPMENT, ACCESSORIES, AND MATERIALS SHALL BE NEW AND UNDAMAGED. WHERE TWO OR MORE UNITS OF THE SAME CLASS ARE REQUIRED, THEY SHALL BE PRODUCTS OF A SINGLE MANUFACTURER. REMOVAL OF DEBRIS, ETC.: UPON COMPLETION OF THIS DIVISION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH.	SECTION 210000 – FIRE PROTECTION SCOPE THE WORK REQUIRED INCLUDES THE DESIGNING, HYDRAULICALLY CALCULATING PIPE SIZES, FLOWS, AND PRESSURE, FURNISHING AND INSTALLATION OF FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, LATEST STANDARDS AND CODES FOR COMPLETE SYSTEMS FOR THE BUILDING.
NDARDS.	<u>CUTTING AND PATCHING:</u> ANY CUTTING, PATCHING, OR FILLING NECESSARY FOR THE PROPER EXECUTION OF THIS WORK SHALL BE DONE BY THIS CONTRACTOR. NO ROUGH OR UNSIGHTLY WORK WILL BE ALLOWED, AND CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE ONLY ON APPROVAL OF THE ARCHITECT.	THE WORK SPECIFIED IN THIS SECTION SHALL BE INSTALLED BY NONE OTHER THAN AN APPROVED FIRE SPRINKLER CONTRACTOR. ALL FIRE PROTECTION SYSTEM PIPING SHALL BE HYDRAULICALLY CALCULATED. ALL SYSTEMS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE LOCAL FIRE AUTHORITY OR HIS REPRESENTATIVE FOR COMPLIANCE OF APPLICABLE STANDARDS.
	SLEEVES AND COLLARS: ALL PIPES AND DUCTS PASSING THRU FLOORS, BEAMS, OR WALLS ARE TO BE FITTED WITH GALVANIZED IRON SLEEVES. SLEEVES THRU FLOORS WHICH DO NOT SET ON GRADE SHALL BE SEALED WATER_TIGHT.	ALL WORK SHALL BE COORDINATED WITH OTHER SUBCONTRACTORS. THE SPRINKLER SYSTEM SHALL CONSIST OF THE REQUIRED NUMBER OF SPRINKLER HEADS, PIPING, HANGERS, DRAINS, TEST PIPES, ALARMS, VALVES, GAUGES, FIRE DEPARTMENT CONNECTIONS, ANTI-FREEZE LOOP, AND ALL OTHER PARTS TO ASSURE A
HICK FIBERGLASS	<u>FLOOR AND WALL PLATES:</u> WHERE PIPES PASS THRU FLOOR CEILINGS, OR PARTITIONS IN THE FINISHED PART OF THE BUILDING, CHROMIUM PLATES SHALL BE PROVIDED ON ALL NEW PIPE WORK.	COMPLETE SYSTEM TO MEET THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITER, LOCAL AUTHORITY HAVING JURISDICTION, AND IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS.
LIED VAPOR	PENETRATIONS THRU FIRE RESISTANCE RATED WALLS AND FLOORS WHERE MECHANICAL EQUIPMENT IS RECESSED INTO FIRE RESISTANCE RATED WALLS, THE EQUIPMENT SHALL BE CONSTRUCTED AND INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED AND SHALL BE LISTED AND APPROVED FOR SUCH INSTALLATION. WHERE PIPING PENETRATES THRU FIRE RESISTANCE RATED FLOORS, AND APPROVED AND LISTED THROUGH-PENETRATION FIRESTOP SYSTEM SHALL BE INSTALLED.	 WET SPRINKLER SYSTEM & COMBINED SYSTEMS: N.F.C. #13 AND #14 - I.B.C. ALARM EQUIPMENT: N.F.C. #70 & 72A SUPERVISION: N.F.C. #13 AND #14 - I.B.C. TEMPORARY FIRE PROTECTION: N.F.C. #14 - I.B.C. SPRINKLER HEADS: N.F.C. #13 SLEEVES AND LOCATION: N.F.C. #13
S, TITUS, WATERLOO,	<u>PIPES AND FITTINGS:</u> ALL PIPE AND FITTINGS SHALL BE OF THE INSIDE DIAMETER DESIGNATED, SMOOTH INSIDE, WITH OUTER AND INNER SURFACES CONCENTRIC, SOUND AND FREE FROM ALL DEFECT. SITE INSPECTION AND EXAMINATION OF DRAWINGS:	<u>SPRINKLER SYSTEM:</u> THIS SYSTEM SHALL CONFORM TO N.F.C. #13 AND #14 AND I.B.C. RISER MAY BE CALCULATED BUT SHALL NOT BE SMALLER THAN 6". SPRINKLER SYSTEMS ARE TO BE LIGHT, ORDINARY, OR EXTRA HAZARD, AS REQUIRED BY NFC-13 AND THE UTAH STATE FIRE MARSHALL'S OFFICE.
LL BE PRICE, AIR	THE CONTRACTOR SHALL CAREFULLY EXAMINE THE BUILDING SITE AND STUDY ALL DRAWINGS AND SPECIFICATIONS PERTAINING TO THE WORK BEFORE SUBMITTING A BID. VERIFICATION OF DIMENSIONS: BEFORE PROCEEDING WITH ANY WORK. THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SHALL	SYSTEM SHALL BE HYDRAULICALLY CALCULATED. SPRINKLER SYSTEM SHALL BE LIGHT HAZARD, EXCEPT FOR CASUAL ORDINARY AND EXTRA HAZARD GROUP 1 IN STORAGE AND SERVICE AREAS. DENSITY FOR LIGHT HAZARD AREAS SHALL BE 0.10 GPM PER SQ. FT. OVER 1500 SQ. FT. REMOTE AREA WITH A MAXIMUM HEAD SPACING OF 225 SQ. FT. SERVICE AREA SHALL BE DENSITY OF 0.15 OVER 2000 SQ. FT. WITH MAXIMUM SPACING OF 130 SQ. FT.
EEL CONSTRUCTION ALL BE PRICE, AIR	ASSUME FULL RESPONSIBILITY FOR THE FITTING IN OF HIS DUCTS, PIPES, AND EQUIPMENT. SEISMIC RESTRAINT ALL DIVISION 22 & 23 EQUIPMENT, PIPING, AND DUCTWORK SHALL BE ANCHORED AND SEISMICALLY RESTRAINED AS REQUIRED BY THE 2021 JPC (PARTICLULARI X 1612 1) AND JMC (PARTICLULARI X 201 18) FOR SEISMIC ZONE D. NERA 2004 (CURRENT EDITION) JU	<u>QUALIFICATION OF DESIGNER</u> DESIGNER SHALL BE AN ENGINEERING TECHNICIAN OR SENIOR ENGINEERING TECHNICIAN (LEVEL III OR LEVEL IV), NICET CERTIFICATION FOR FIRE SPRINKLER SYSTEM DESIGN.
RAWINGS. S INDICATED ON THE	THE DIVISION 22 & 23 CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING EQUIPMENT, PIPING, DUCTOWORK, VIBRATION ISOLATORS, FLEXIBLE CONNECTIONS, RIGID STEEL FRAMES, ANCHORS, INSERTS, HANGERS AND	QUALIFICATION OF INSTALLER IT IS INTENDED THAT THE SYSTEM BE DESIGNED AND INSTALLED BY A FIRM REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION BUSINESS OF FIRE SPRINKLER CONTRACTING. THE OWNER'S REPRESENTATIVE MAY REQUIRE EVIDENCE TO SUPPORT THE ABILITY OF THE CONTRACTOR TO PERFORM WORK IN THE SCOPE AND VOLUME AS SPECIFIED. A CONTRACTOR WHO CANNOT VERIFY SUCH EXPERIENCE, MAY BE FOUND NOT SUITABLE TO PERFORM THE WORK.
MINUM THOUT DISTURBING MPER.	ATTACHMENTS, SUPPORTS, SEISMIC SNUBBERS AND BRACING TO COMPLY WITH SEISMIC ZONE D OF THE INTERNATIONAL BUILDING CODE. ALL SUPPORTS, HANGERS, BASES, ANCHORAGE AND BRACING FOR ALL ISOLATED EQUIPMENT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER EMPLOYED BY THE RESTRAINT MANUFACTURER, QUALIFIED WITH SEISMIC EXPERIENCE IN BRACING	HANGERS ALL HANGERS TO BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13.
	FOR MECHANICAL EQUIPMENT. SEISMIC SHOP DRAWING SHALL BE SUBMITTED BY DEFERRED SUBMITTAL TO THE ARCHITECT AND MECHANICAL ENGINEER.	SPRINKLER HEADS SPRINKLER HEADS SHALL BE U.L. APPROVED. "K" FACTORS SHALL BE THE SAME ON EACH SYSTEM AND/OR FLOOR. SEE PLANS FOR HEAD TYPES. EXTENDED COVERAGE HEADS WILL BE ALLOWED PER NFPA.
GTH, WITH	SHOP DRAWINGS SUBMITTED FOR EARTHQUAKE BRACING AND ANCHORS SHALL BEAR THE SEISMIC ENGINEER'S SIGNED PROFESSIONAL SEAL. THE ABOVE QUALIFIED SEISMIC ENGINEER SHALL DETERMINE SPECIFIC REQUIREMENTS ON EQUIPMENT ANCHORAGE AND	SPRINKLERS SHALL BE OF THE PROPER TEMPERATURE RATING. LOCATION OF SPRINKLER HEAD WHEREVER REASONABLY POSSIBLE SHALL BE SYMMETRICAL AND COORDINATED WITH THE CEILING PATTERN.
TS FOR THE	RESTRAINTS, LOCATIONS AND SIZES BASED ON SHOP DRAWINGS FOR THE MECHANICAL EQUIPMENT WHICH HAVE BEEN SUBMITTED, REVIEWED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE FOR THIS PROJECT.	HEADS SHALL BE DETERMINED BY THE SYSTEM DESIGN, AND ARCHITECTURAL COORDINATION.
REQUIRED.	THE SEISMIC RESTRAINT MANUFACTURER'S ENGINEER SHALL INSPECT THE FINAL INSTALLATION AND SHALL CERTIFY THAT ALL SEISMIC RESTRAINTS HAVE BEEN INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES AND STANDARDS.	ALL PIPING ABOVE GROUND SHALL BE SCHEDULE 40 DOMESTIC STEEL PIPE AND FITTINGS. ALL FIRE SPRINKLER PIPING SHALL BE SCHEDULE 40 BLACK STEEL. ALL PIPING AND FITTINGS SHALL BE U.S. MANUFACTURE. THIN
	RECORD DRAWINGS:	PIPING SUPPORT STEEL ROOF DECK SHALL NOT BE USED TO SUPPORT LOADS FROM FIRE PIPING OR EQUIPMENT OF ANY KIND, UNLESS
IRED THAT ALL FANS	COOPERATION WITH OTHERS: THE CONTRACTOR SHALL SO ORGANIZE THE WORK THAT HIS PROGRESS WILL HARMONIZE WITH THE WORK OF ALL TRADES, SO THAT ALL WORK MAY PROCEED AS EXPEDITIOUSLY AS POSSIBLE.	SPECIFICALLY NOTED OTHERWISE. BRACING OF MISCELLANEOUS ITEMS (FIRE, MECHANICAL, ELECTRICAL, PLUMBING, ETC.) TO THE BOTTOM CHORD OF JOISTS OR GIRDERS WILL NOT BE ALLOWED IN ANY INSTANCE. ALL LATERAL BRACES MUST CONNECT TO THE TOP FLANGE/TOP CHORD OF THE FRAMING MEMBER ABOVE UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWING.
AND INSTALLED AS A	<u>GUARANTEE:</u> THE MECHANICAL AND PLUMBING SYSTEMS SHALL BE PLACED UNDER A ONE YEAR GUARANTEE AFTER DATE OF FINAL ACCEPTANCE BY THE ARCHITECT. ANY CALIBRATION, PARTS, OR LABOR NECESSARY DUE TO FAULTY INSTALLATION OR FAULTY EQUIPMENT SHALL BE REPLACED DURING THIS PERIOD AT NO COST TO THE OWNER.	IT IS ESSENTIAL THAT ALL PIPING BE SUPPORTED FROM ROOF STRUCTURE AT JOIST WITHIN 6" OF PANEL POINT LOCATION AND FROM TOP OR BOTTOM CHORD OF FLOOR OR ROOF JOIST. BEAM CLAMPS SHALL NOT BE USED TO HANG PIPING FROM OPEN WEB JOIST, TRUSSES, OR GIRDERS.
	<u>SECTION 230501 - TESTING</u> GENERAL:	USE OF BEAM CLAMPS AT STRUCTURAL JOIST SYSTEMS ARE NOT ALLOWED. SEE DETAIL 3/M503. EARTHQUAKE BRACING NOTATE FIRE MARCHINE IN ACCORDANCE WITH NERA #42 STANDARDS AND UTAL STATE FIRE MARCHINE OFFICE
VARIANCES FROM	THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL SCAFFOLDING, TOOLS, AND EQUIPMENT TO COMPLETE ALL TESTING. IN ADDITION, HE SHALL REPAIR OR REPLACE ALL DEFECTIVE COMPONENTS AS INDICATED BY THE TEST.	INSTALL EARTHQUAKE BRACING IN ACCORDANCE WITH NEPA #13 STANDARDS AND UTAH STATE FIRE MARSHALL'S OFFICE. <u>TEMPORARY FIRE PROTECTION DURING COURSE OF CONSTRUCTION</u> THIS CONTRACTOR SHALL PROVIDE FIRE PROTECTION AS REQUIRED BY N.E.C. #14 - CHAPTER & AND SHALL BE COORDINATED
SCHOOL DISTRICT	TESTS AND ADJUSTMENTS: BEFORE ANY PIPING IS COVERED, TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE FOLLOWING MINIMUM PRESSURES SHALL BE USED FOR TESTING: 1. DOMESTIC HOT AND COLD WATER PIPING AT 150 PSIG FOR SIX HOURS. 2. PLUMBING WASTE AND VENT PIPING AT 10 FT. HEAD FOR SIX HOURS. 3. FIRE SPRINKLER PIPING AT 150 PSIG FOR SIX HOURS.	WITH THE LOCAL FIRE DEPARTMENT.
	BURIED SANITARY SEWER LINES: BELOW GRADE SEWER LINES SHALL BE TESTED FOR LEAKAGE BY EITHER INFILTRATION OR EXFILTRATION TESTS. ALL VISIBLE	SECTION 220000 - PLUMBING SCOPE OF WORK
TAT. SETPOINT PLATE SENSORS	LEAKS SHALL BE CORRECTED REGARDLESS OF LEAKAGE TEST RESULTS. <u>EQUIPMENT:</u> THE CONTRACTOR SHALL FURNISH ALL NECESSARY FANS, GAUGES, PUMPS, ETC. REQUIRED TO CONDUCT THE TESTS.	 COMPLETE DOMESTIC WATER SYSTEM ALL PLUMBING FIXTURES WASTE & VENT SYSTEMS
OUGH-IN.	REPORTS: ALL TESTS SHALL BE RECORDED AND COPIES OF THE REPORT PLACED IN THE O & M MANUALS.	<u>STANDARDS:</u> PLUMBING INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE 2021 IPC AND ALL LOCAL CODES AND ORDINANCES.
FING LIGHT	<u>SECTION 230593 - BALANCING</u> GENERAL:	TRAPS: EACH FIXTURE INSTALLED IN THE WORK SHALL BE INSTALLED SUCH THAT ALL GASES SHALL PASS FREELY TO THE ATMOSPHERE, WITH NO PRESSURE OR SYPHON CONDITION ON THE WATER SEAL.
	AN INDEPENDENT TECHNICAL BALANCING FIRM SHALL PERFORM THE CHECKING, ADJUSTING, AND BALANCING (CAB) OF THE HVAC SYSTEMS AND DOMESTIC HOT WATER CIRCULATING SYSTEM - AND SHALL PROVIDE THE OWNER WITH A NATIONAL WARRANTY CERTIFICATE. ALL SYSTEMS SHALL BE ADJUSTED TO WITHIN 10% OF THE DESIGN DOCUMENTS REQUIREMENTS.	<u>VENTS:</u> THE ENTIRE SYSTEM SHALL BE PROPERLY VENTED TO ATMOSPHERE. <u>CLEANOUTS:</u>
	DOCUMENTS: THE CAB FIRM SHALL REVIEW AND COMMENT ON THE "RECORDS FOR OWNER" INCLUDING RECORD DRAWINGS, SHOP DRAWINGS, ETC.	CLEANOUTS SHALL BE INSTALLED IN THE BASE OF EACH VERTICAL SOIL, WASTE, OR RAINWATER DRAINAGE LINE, AND IN THE HORIZONTAL LINE AT EACH CHANGE IN DIRECTION. IN ADDITION, THERE SHALL BE CLEANOUTS SPACED AT MAXIMUM SPACING OF 50 FEET IN ALL HORIZONTAL LINES. ALL CLEANOUTS SHALL BE EXTENDED TO ACCESSIBLE SURFACES.
	<u>EQUIPMENT AND INSTRUMENTS:</u> THIS CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, SCAFFOLDING, INSTRUMENTS, ETC. REQUIRED TO ADJUST, BALANCE, AND CHECK ALL SYSTEMS.	FLASHINGS: ALL PIPES PASSING THRU THE ROOF SHALL BE FLASHED WATERTIGHT. BURYING PIPE:
	<u>REPORT:</u> A DIGITAL COPY OF THE REPORT SHALL BE FURNISHED TO THE OWNER.	MINIMUM BURY ON ANY PIPING SHALL BE 18" TO PROTECT AGAINST PHYSICAL DAMAGE. PIPE GRADING AND SLOPE: WASTE AND VENT LINES 4" AND LINDER SHALL BE GRADED AT LEAST 1" IN 4'-0" THOSE ABOVE 4" SHALL BE GRADED AT LEAST 1"
	SECTION 230900 - BASIC MATERIALS & METHODS	IN 8'-0". WATER LINES SHALL BE GRADED TO DRAIN IN CHASES AND MECHANICAL ROOMS. PLUMBING FIXTURES:
	<u>GENERAL:</u> ALL MATERIALS SHALL BE NEW AND UNDAMAGED. INSERTS AND SLEEVES SHALL BE FURNISHED AND SET BY THIS CONTRACTOR SO THEY APPLY TO THE MECHANICAL WORK.	THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL FIXTURES. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P501.
	ALL PIPING SHALL BE SLOPED UP OR DOWN IN THE DIRECTION OF FLOW TO ELIMINATE AIR POCKETS, TRAPS AND/OR TO FACILITATE DRAINAGE.	SECTION 220700 - INSULATION
	ALL BASE MOUNTED EQUIPMENT SHALL BE MOUNTED ON CONCRETE PADS, OR WOOD OR METAL CURBS IF ROOF MOUNTED.	<u>GENERAL:</u> ALL HOT (100 DEG. F. AND ABOVE) AND ALL COLD (55 DEG. F. AND BELOW) SURFACES OF ALL PIPING AND MECHANICAL SYSTEM COMPONENTS SHALL BE INSULATED
	ALL PIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. NO FOREIGN MADE PIPING WILL BE ACCEPTED IN THIS CONSTRUCTION.	ALL INSULATION SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 50.
	ALL COLD AND HOT DOMESTIC WATER PIPING WITHIN THE BUILDING SHALL BE TYPE IL COPPER WITH SOLDERED FITTINGS. ALL WASTE LINES BELOW GRADE SHALL BE SOLID CORE SCHEDULE 40 DRAIN, WASTE, AND VENT PVC WITH GLUED FITTINGS.	PRODUCTS: ALL DOMESTIC HOT WATER, COLD WATER & HOT WATER RE-CIRCULATING PIPING TO BE INSULATED WITH 1" FIBERGLASS
	ALL WASTE LINES ABOVE GROUND SHALL BE STANDARD WEIGHT AND CAST IRON PIPE. ALL JOINTS IN CAST IRON PIPE SHALL BE NO-HUB BANDED WITH 4-BAND COUPLINGS.	INSULATION WITH WHITE ALL SERVICE JACKET. COLD WATER PIPING INSULATION TO HAVE A VAPOR BARRIER. ALL VALVES AND FITTINGS SHALL BE INSULATED AS SPECIFIED FOR THE PIPING AND SHALL BE COVERED WITH HIGH
	PIPE LOCATION AND ARRANGEMENT: ALL PIPING SHALL BE RACKED AND RUN TO FACILITATE MAINTENANCE WORK. UNDER NO CIRCUMSTANCES SHALL VALVES, SHOCK ABSORBERS, DRIP TRAPS, OR PIPING SPECIALTIES BE INSTALLED IN A "CLOSED SPACE".	LOW PRESSURE ROUND DUCT EXPOSED TO OUTSIDE AIR SHALL BE WRAPPED WITH R-12 DUCT WRAP INSULATION WITH VAPOR BARRIER.
	<u>VALVES AND STRAINERS:</u> ALL VALVES AND STRAINERS SHALL BE 125 PSI RATED. APPROVED VALVE MANUFACTURERS ARE CRANE, STOCKHAM, WALWORTH, POWELL, JENKINS, AND KENNEDY.	SECTION 230000 - HEATING & COOLING
	<u>UNIONS:</u> GROUND JOINT UNIONS SHALL BE INSTALLED WHENEVER PIPING IS CONNECTED TO A MAJOR PIECE OF APPARATUS.	<u>GENERAL:</u> THE INSTALLATION COVERS FURNISHING AND INSTALLING THE HEATING & COOLING SYSTEMS.
	<u>ISOLATION FITTINGS:</u> APPROVED NZR BRASS ISOLATION FITTINGS SHALL BE INSTALLED AT THE JUNCTION OF ALL COPPER AND STEEL PIPING TO PREVENT ELECTROLYTIC ACTION.	<u>SECTION 230100 - GENERAL PROVISIONS</u>
	PIPE CLEANING: ALL PIPING SYSTEMS AND COMPONENTS TO BE CHEMICALLY CLEANED AND FLUSHED PRIOR TO OPERATING THE SYSTEM.	GENERAL CONDITIONS OF THE CONTRACT ARE A PART OF THIS SUB-CONTRACT.
	EQUIPMENT LUBRICATION: ALL BEARINGS ON MOTORS, FANS, PUMPS, ETC. SHALL BE PROPERLY LUBRICATED PRIOR TO OPERATION.	BASIC BID: SHALL INCLUDE ALL LABOR AND MATERIALS SPECIFIED IN THIS DIVISION.
	<u>VALVE TAGGING AND EQUIPMENT I.D.:</u> ALL VALVES SHALL BE NUMBERED AND TAGGED WITH A BRASS I.D. PLATE WITH A NUMBER CORRESPONDING TO THOSE ON A CHART AND DIAGRAM INCLUDED IN THE O & M MANUALS.	SCOPE OF WORK: THE WORK TO BE DONE UNDER THIS SECTION INCLUDES:
	EACH PIECE OF MECHANICAL EQUIPMENT SHALL BE TAGGED WITH AN I.D. CORRESPONDING TO THE DESIGN DOCUMENTS. THE TAG SHALL BE PLASTIC LAMINATE WITH 1/8" HIGH ENGRAVED LETTERS.	1. SYSTEM BALANCING 2. PIPING & PLUMBING SYSTEMS 3. INSULATION SYSTEMS
	PIPE I.D. AND CODING: ALL PIPES ARE TO BE LABELED AND COLOR CODED WITH CONTENTS CLEARLY IDENTIFIED AND DIRECTION OF FLOW INDICATED.	4. HEATING AND COOLING SYSTEMS 5. AIR DISTRIBUTION SYSTEMS 6. FIRE PROTECTION SYSTEMS
	MISCELLANEOUS: HIGH EFFICIENCY ELECTRIC MOTORS SHALL BE USED.	<u>ORDINANCES:</u> THE WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL AND STATE PLUMBING AND ENERGY CODES.
	ALL DIVISION 22 & 23 FOUIPMENT, PIPING, AND DUCTWORK SHALL BE ANCHORED AND SEISMICALLY RESTRAINED AS REQUIRED	FEES & PERMITS:

BY THE 2021 IBC FOR SEISMIC THE LOCAL SEISMIC ZONE.

FEES & PERMITS: THIS CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES REQUIRED IN CONNECTION WITH THE WORK.

REPORTS REQUIRED BEFORE PROJECT COMPLETION:

I. AS-BUILT DRAWINGS SHOWING INSTALLED EQUIPMENT.

II. OPERATING AND MAINTENANCE MANUALS INCLUDING ROUTINE MAINTENANCE REQUIREMENTS, NAME AND ADDRESS OF A SERVICING AGENCY, NARRATIVE OF CONTROLS, AND RECOMMENDED OPERATING SET-POINTS.

III. SYSTEM BALANCING REPORT. (ABOVE ITEMS SHALL BE COMPLETED WITHIN 90 DAYS OF RECEIVING A CERTIFICATE OF OCCUPANCY AND BEFORE FINAL OBSERVATION IS REQUESTED FROM THE MECHANICAL ENGINEER.)





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FIRST FLOOR MECHANICAL PLAN 0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

- **REFERENCE NOTES** # 1 APPROXIMATE LOCATION OF EXISTING DUCTWORK TO
- REMAIN. (TYPICAL)
- 2 EXISTING TO REMAIN.
- 3 REMOVE EXISTING LOW PRESSURE DUCTWORK AND HANGERS. (TYPICAL)
- 4 REMOVE EXISTING DUCTWORK BACK TO THIS APPROXIMATE LOCATION.
- REMOVE EXISTING SUPPLY DIFFUSERS AND RELATED DUCT COMPLETE. (TYPICAL)
- 6 REMOVE EXISTING RETURN GRILLE. (TYPICAL)
- 7 PATCH AND REPAIR AS NEEDED.
- 8 SOUND BOOT AT GRILLE. SEE DETAIL 8/M601.
- 9 RE-BALANCE EXISTING VAV BOX.

CONDITIONS.

- 10 WALL SWITCH WITH 0-2 HOUR TIMER AND INDICATING LIGHT TO CONTROL EF-1.
- 11 DUCTWORK TO RUN ABOVE CEILING. COORDINATE WITH EXISTING CONDITIONS AND ALL TRADES. (TYPICAL)
- 12 TIE INTO EXISTING LOW PRESSURE DUCTWORK AT THIS APPROXIMATE LOCATION. COORDINATE WITH EXISTING
- 13 HET FITTING WITH MANUAL BALANCING DAMPER.
- (TYPICAL)
- 14 RE-BALANCE EXISTING DIFFUSERS TO CFM SHOWN. 15 WALL MOUNTED TEMPERATURE SENSOR. CONNECT TO EXISTING VAV BOX. AVERAGE TEMPERATURE VALUES
- WITH EXISTING SENSORS.
- EXHAUST DUCT UP THRU ROOF. COORDINATE WITH 16 EXISTING CONDITIONS. SEE DETAIL 7/M601.
- 17 REMOVE IN FUTURE WORK. EXISTING EXHAUST FAN TO BE CONTROLLED BY OCCUPANCY SENSOR IN FUTURE RESTROOM.

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November 1, 2024 E MECHANICAL FLOOR PLANS

BID DOCUMENTS

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MHTN PROJECT NO. 2024515

NO. DATE

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Olsen & Peterson

consulting engineers,

MHTN ARCHITECTS MHTN Architects, Inc.

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MECHANICAL EQUIPMENT SCHEDULE

DRYER BOX: 22 GAUGE ALUMINUM IN-WALL TYPE. DB-1 MANUFACTURER: DRYERBOX MODEL: DB-480

	EXHAUST FAN SCHEDULE									
	SYMBOL	LOCATION	TYPE	C.F.M	E.S.P.	MOTOR	DRIVE	UNIT WTS. LBS	MAKE & MODEL	
	EF-1	KITCHEN 013	CEILING	150	.25"	1/4 H.P. 120/1/60	DIRECT	23	TCF-T-200V	(1)(2)
(BID ALT. #1)	EF-2	RESTROOM B102	CEILING	150	.25"	1/4 H.P. 120/1/60	DIRECT	23	TCF-T-200V	(1)(3)

NOTES:

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(1) CEILING MOUNTED EXHAUST FANS TO BE COMPLETE WITH SIGHT TIGHT BAR-TYPE CEILING GRILLE, BACKDRAFT

DAMPERS, SPEED CONTROLLER AND FLEXIBLE CONNECTION ON DISCHARGE DUCT. (2) PROVIDE WALL SWITCH W/ 2-HOUR TIMER AND INDICATING LIGHT (BY ATC CONTRACTOR).

(3) CONTROLLED BY OCCUPANCY SENSORS (BY E.C.) COORDINATE WITH E.C.

	DIFFUSER SCHEDULE									
SYMBOL	TYPE	NECK SIZE	SIZE	LOCATION	AIR PATTERN	MAKE & MODEL				
							(4)(0)			
D-1 CFM	SUPPLY AIR	24"x24"	6"Ø	LAY-IN CEILING	4-WAY	PRICE SCD	(1)(2)			
D-2 CFM	SUPPLY AIR	12"x12"	8"Ø	GYP. BOARD CEILING	4-WAY	PRICE SCD	(1)(2)			

NOTES:

(1) COLOR AND FINISH TO MATCH CEILING GRID, COORDINATE WITH ARCHITECT. (2) COORDINATE WITH ARCHITECTURAL CEILING PLAN FOR CEILING TYPE.

	GRILLE SCHEDULE									
SYMBOL	SIZE	LOCATION	TYPE	MAKE & MODEL (1)						
G-1	24" x 24"	CEILING	RETURN AIR	PRICE 530						
G-2	24" x 12"	CEILING	RETURN AIR	PRICE 530						

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NOTES:

(1) COLOR AND FINISH TO MATCH CEILING GRID, COORDINATE WITH ARCHITECT. SUPPLIER OF REGISTERS AND GRILLES SHALL COORDINATE WITH REFLECTED CEILING PLANS TO DETERMINE PROPER FRAMES.

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RETURN AIR TRANSFER DUCT DETAIL SCALE: NTS

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SCALE: 1/4" = 1'-0"

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<\#> **REFERENCE NOTES**

- 1 DEMOLISH EXISTING PIPING BACK TO THIS APPROXIMATE LOCATION.
- 2 DEMOLISH EXISTING PIPING.
- 3 EXISTING TO REMAIN.
- 4 EXISTING SERVICE SINK AND RELATED PIPING TO REMAIN.
- 5 REMOVE EXISTING SINK AND EMERGENCY EYEWASH STATION COMPLETE. VENT LINE TO REMAIN.

<u>BUILDING KEYPLAN</u>

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REFERENCE NOTES

- 1 STUB IN WASTE LINE CONNECTIONS. FINAL CONNECTIONS TO BE MADE AS PART OF FUTURE WORK. (TYPICAL)
- 2 CAP PIPING ABOVE CEILING IN THIS APPROXIMATE LOCATION TO BE USED FOR BID ALT. #1. SEE SHEET P101A.
- 3 PIPING TO RUN BELOW FLOOR. COORDINATE WITH ALL EXISTING CONDITIONS. (TYPICAL)
- 4 PIPING TO RUN ABOVE CEILING. COORDINATE WITH ALL EXISTING & NEW CONDITIONS. (TYPICAL)
- 5 LINE SIZE BALL VALVE. (TYPICAL) VALVE MUST BE ACCESSIBLE.
- 6 CIRCUIT SETTER IN HOT RE-CIRCULATING LINE. BALANCE TO GPM SHOWN.

7 TIE NEW WATERS INTO EXISTING AT APPROXIMATELY THIS LOCATION. REPAIR INSULATION AT TIE-IN. FIELD VERIFY TYPE & FLOW AT CONNECTION.

- 8 APPROXIMATE LOCATION OF EXISTING WATERS ABOVE CEILING.
- 9 TIE INTO EXISTING SANITARY SEWER AT APPROXIMATELY THIS LOCATION. FIELD VERIFY EXACT LOCATION & INVERT ELEVATION.
- APPROXIMATE LOCATION OF EXISTING SANITARY SEWER PIPING.
 WASHING MACHINES LOCATED IN UTILITY ROOM. INSTALL
- 11 WASHING MACHINES LOCATED IN UTILITY ROOM. INSTALL WB-1 ACCORDINGLY. COORDINATE MACHINE LOCATIONS WITH ARCHITECTURAL PLANS. COORDINATE CONNECTIONS WITH APPLIANCES PROVIDED.
- 12 WALL CLEANOUT. (WCO) SEE DETAIL 6/P601.
- 13 CAP EXISTING PIPING IN THIS APPROXIMATE LOCATION.
- 14 EXISTING PIPING TO REMAIN.
- 15 CAP EXISTING WASTE LINE BELOW GRADE.
- 16 VENT THRU ROOF. SEE DETAIL 7/P601.17 EXISTING SERVICE SINK AND RELATED PIPING TO
- 18 SEE SHEET P101A FOR BID ALT. #1 PLANS.

BUILDING KEYPLAN

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REFERENCE NOTES <₩>

- 1 PIPING TO RUN BELOW FLOOR. COORDINATE WITH ALL EXISTING CONDITIONS. (TYPICAL)
- 2 PIPING TO RUN ABOVE CEILING. COORDINATE WITH ALL EXISTING & NEW CONDITIONS. (TYPICAL)
- TIE INTO EXISTING SANITARY SEWER AT APPROXIMATELY THIS LOCATION. FIELD VERIFY EXACT LOCATION & INVERT ELEVATION.
- 4 APPROXIMATE LOCATION OF EXISTING SANITARY SEWER PIPING.
- 5 WALL CLEANOUT. (WCO) SEE DETAIL 6/P601.
- 6 EXISTING PIPING TO REMAIN.
- 7 CAP EXISTING WASTE LINE BELOW GRADE.
- 8 VENT THRU ROOF. SEE DETAIL 7/P601. 9 SEE SHEET P101 FOR BASE BID PLUMBING PLANS.
- 10 LINE SIZE BALL VALVE. (TYPICAL) VALVE MUST BE ACCESSIBLE.
- 11 CIRCUIT SETTER IN HOT RE-CIRCULATING LINE. BALANCE
- TO GPM SHOWN. 12 TIE NEW WATERS INTO EXISTING AT APPROXIMATELY
- THIS LOCATION. REPAIR INSULATION AT TIE-IN. FIELD VERIFY TYPE & FLOW AT CONNECTION.
- 13 APPROXIMATE LOCATION OF EXISTING WATERS ABOVE CEILING.
- 14 CAP EXISTING PIPING IN THIS APPROXIMATE LOCATION. 15 EXISTING SERVICE SINK AND RELATED PIPING TO REMAIN.

<u>BUILDING KEYPLAN</u>

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BID ALT. #1 SHEET NUMBER

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				PLUN	/BING FIXTURE SCHEDULE
VASTE	VENT	C.W.	H.W.	TEMPERED WATER	NOTES
4"	2"	1"		-	KOHLER K-96057 "HIGHCLIFF" SIPHON JET, FLOOR-MOUNTED, EXTENDED LIP BOWL, 1-1/2" TOP SPUD, VITREOUS CHINA, SLOAN CROWN-111 1.6 GPF CHROME PLATED MANUAL PISTON TYPE FLUSH VALVE (EBV500A-G ACTUATOR) K -4666-C BEMIS 1955C EXTRA HEAVY SOLID PLASTIC WHITE OPEN FRONT SEAT WITH STAINLESS STEEL CHECK HINGE; 431310-100 BOLT CAPS.
1 1/2"	1 1/2"	1/2"	1/2"	1/2"	KOHLER K-2214-0 "LADENA" 18-5/8" X 12-1/4" X 8-1/8" UNDERMOUNT, VITREOUS CHINA, RECTANGULAR LAVATORY, OVERFLOW, CENTER BASIN, CHICAGO 802-1000-PRJKCP, 2.2 GPM DECK MOUNTED MANUAL FAUCET WITH VANDAL RESISTANT AERATOR. PROVIDE GRID STRAINER, CHROME PLATED BRASS TAILPIECE AND P-TRAP, AND FLEXIBLE SUPPLIES W/STOPS.
		1/2"	1/2"	1/2"	WATTS MODEL USG-B ASSE 1070 SINGLE LAVATORY MIXING VALVE WITH INTEGRAL STRAINER.
1-1/2"	1-1/2"	1/2"	1/2"		JUST UD-1832A-J, 30-3/4" X 18-1/2" X 7-7/8", 18 GA. 2-COMPARTMENT 304 STAINLESS STEEL, UNDERMOUNT WITH SOUND DAMPENING, DECK MOUNTED FAUCET, CUP STRAINER, CHICAGO 1100-GN2AE3-317AB FAUCET WITH SWING SPOUT, ADA LEVERS, AND AERATOR, FLEXIBLE SUPPLIES, BRASS P-TRAP.
2"	-	1/2"	1/2"		GUY GRAY SSWB3 FOR IN-THE-WALL INSTALLATION WITH CONCEALED PIPING, DUAL 1/2" ¼ TURN ARRESTER VALVES WITH HOSE CONNECTIONS AND 2" DRAIN CONNECTION. STAINLESS STEEL BOX CONSTRUCTION AND FINISH. (VERIFY MOUNTING HEIGHT WITH EXISTING CONDITIONS). PROVIDE 2" STAND PIPE DRAIN WITH P-TRAP FOR WASTE CONNECTION.
-	-	1/2"	-	-	GUY GRAY BIM-875 FOR IN-THE-WALL INSTALLATION WITH CONCEALED PIPING, 1/2" BALL VALVE. 18 GAUGE DIPPED GALV. STEEL FINISH. FACE PLATE WITH 20 GAUGE BOX. (VERIFY MOUNTING HEIGHT WITH CONDITIONS).
2"	1-1/2"				ZURN #Z-415-4 2" CAST IRON DRAIN WITH NICKEL BRONZE ROUND TOP. DRAIN TO HAVE DEEP SEAL P-TRAP. PROVIDE PRO VENT SYSTEMS PROSET TRAP GUARD IN ALL FD-1 FLOOR DRAINS WHERE NO TRAP PRIMER IS CONNECTED. P-TRAP TO HAVE TRAP PRIMER CONNECTION WHERE TRAP PRIMER PIPING IS SHOWN ON DRAWINGS.
2"	1-1/2"				ZURN #Z-415-4 2" CAST IRON DRAIN WITH CHROME-PLATED BRONZE SQUARE TOP. DRAIN TO HAVE DEEP SEAL P-TRAP. PROVIDE PRO VENT SYSTEMS PROSET TRAP GUARD IN ALL SD-1 SHOWER DRAINS.
		1/2"	1/2"		BRADLEY MODEL 1C-EF-D1-SB-30-DV-BP SINGLE LEVER COMPRESSION SHOWER VALVE WITH VOLUME CONTROL AND ADJUSTABLE TEMPERATURE LIMIT. SHOWER SHALL HAVE SHOWER HEAD W/ BALL JOINT AND SHOWER ARM WITH WALL FLANGE. HAND HELD 60" SS HOSE W/SPRAY HEAD, BRADLEY MODEL DV DIVERTING VALVE AND VACUUM BREAKER. ALL ITEMS SHALL BE SET TO HANDICAPPED HEIGHTS & COMPLY WITH STANDARDS OF THE UTAH STATE PHYSICAL HANDICAPPED CODE.

BRANCH WATER LINE SCHEDULE								
FIXTURE	FIXTURE UNITS	TOTAL C 1/2"	UANTITY OF 3/4"	FIXTURES S 1"	ERVED BY A 1 1/4"	GIVEN PIPE 1-1/2"	SIZE 2"	
WATER CLOSET	10			1	2	3	8	
LAVATORY	2	1	3	5	7	15	50	
SINK	2	1	3	5	7	15	50	
HOSE BIBB	3		1	3	5	10	33	

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NOTE: MINIMUM PIPE SIZE TO ANY FIXTURE TO BE 1/2". WHERE PIPE SIZE IS SHOWN ON DRAWINGS, IT SHALL BE FOLLOWED. IN THE EVENT PIPE SIZES ARE NOT SHOWN, THE SIZE OF ANY BRANCH LINE SHALL BE DETERMINED BY USING THIS TABLE. FIND SUM OF TOTAL FIXTURE UNITS ON BRANCH LINE, THEN REDUCE TOTAL BY SUBTRACTING OFF INDIVIDUAL FIXTURE UNITS FOR EACH SUCCESSIVE FIXTURE ALONG THE BRANCH LINE.

WASTE - UNDERGROUND

VENT ----DOMESTIC COLD WATER _____ DOMESTIC HOT WATER _____ DOMESTIC HOT WATER RECIRC ______ FCO = FLOOR CLEANOUT **→ → → → → → →** WCO - WALL CLEANOUT

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JORDAN

SCHOOL DISTRICT

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BID DOCUMENTS

November 1, 2024 SHEET NAME E PLUMBING SCHEDULES

SHEET NUMBER

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P601

VENT THRU ROOF DETAIL

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WASHER BOX WB-1 ROUGH-IN DETAIL SCALE: NTS

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REFERENCE NOTES <#>

- 1 REMOVE EXISTING RECESSED FIRE SPRINKLER HEADS. REMOVE FLEX DROPS AS REQUIRED FOR NEW HEAD LAYOUT. (TYPICAL)
- 2 EXISTING HEADS TO REMAIN UNLESS NOTED OTHERWISE.
- 3 NEW FIRE HEADS REQUIRED AT AREA OF REMODEL. (TYPICAL)
- 4 NEW FIRE HEADS REQUIRED AT AREA OF REMODEL. PROVIDE BASE BID COVERAGE FOR ORDINARY HAZARD, GROUP 1 STORAGE SPACE PER NFPA 13 REQUIREMENTS. SIZE FIRE PROTECTION LINE AND LOCATE SPRINKLER HEADS TO ACCOMMODATE COVERAGE FOR LIGHT HAZARD, GYP. BOARD CEILING RESTROOMS. FULLY RECESSED HEADS REQUIRED.
- 5 FIRE SPRINKLERS TO PROVIDE COVERAGE FOR ORDINARY HAZARD, GROUP 1 STORAGE PER NFPA 13 REQUIREMENTS. RE-USE EXISTING SPRINKLER HEADS IF POSSILBE.
- 6 FIRE SPRINKLERS TO PROVIDE COVERAGE PER NFPA 13 REQUIREMENTS. RE-USE EXISITING SPRINKLER HEADS IF POSSIBLE.

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November 1, 2024

SHEET NAME ■ FIRST FLOOR FIRE PROTECTION PLAN SHEET NUMBER

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CONCEALED SPRINKLER HEAD DETAIL SCALE: NTS

FIRE SPRINKLER RISER DETAIL SCALE: NTS

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CONCEALED TYPE SPRINKLER HEAD

COVER PLATE ASSEMBLY (COLOR TO BRIGHT-WHITE)

\FP501/

GENERAL FIRE PROTECTION NOTES

- 1. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ELECTRICAL, SHEET METAL, PLUMBING, AND CEILING CONTRACTORS TO
- AVOID ANY CONFLICTS IN PIPE ROUTING OR HEAD LOCATIONS. 2. RUN SPRINKLING PIPING AS HIGH AS POSSIBLE IN SPACE ABOVE CEILING AND COORDINATE WITH DUCTWORK.
- 3. FIRE SPRINKLER PLANS SHALL BE APPROVED BY ALL GOVERNING AGENCIES PRIOR TO SUBMITTING PLANS TO THE ARCHITECT.
- 4. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE FIRE SPRINKLER SYSTEMS, INCLUDING ALL ITEMS AS REQUIRED OR RECOMMENDED BY ALL GOVERNING AGENCIES.
- 5. FIRE SPRINKLER SYSTEM SHALL COMPLY WITH N.F.P.A. 13, AND ALL GOVERNING AGENCIES.
- 6. PIPE SLEEVES THROUGH FIRERATED WALLS, PARTITIONS, AND CEILINGS SHALL BE OF FIRE RATED CONSTRUCTION. SPACE BETWEEN PIPE AND SLEEVE SHALL BE PACKED WITH FIREPROOF MATERIAL, U.L. LISTED. 7. FIRE SPRINKLER HEADS IN INDIVIDUAL ROOMS TO BE RUN IN STRAIGHT
- LINES AND COORDINATED WITH CEILING AND LIGHTS. 8. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS LOCATION OF PIPING VERY CAREFULLY WITH THE ARCHITECTURAL AND STRUCTURAL PLANS AND AS APPROVED BY THE ARCHITECT.
- 9. HEAD GUARDS TO BE PROVIDED IN ACCORDANCE WITH N.F.P.A.
- 10. FIRE SPRINKLER TEST VALVES TO BE LOCATED IN AREAS CONVENIENT TO MAINTENANCE PERSONNEL, BUT AWAY FROM PUBLIC ACCESS.
- 11. THE UTAH STATE FIRE MARSHALS OFFICE SHALL BE NOTIFIED (IN WRITING) AT LEAST THREE DAYS IN ADVANCE OF THE FOLLOWING:
- A. HYDROSTATIC TEST AND FINAL INSPECTION OF OVERHEAD SYSTEMS PRIOR TO INSTALLATION OF CEILINGS.
- B. FLUSHING OF UNDERGROUND PRIOR TO CONNECTION OF OVERHEAD. C. HYDROSTATIC TEST AND FINAL INSPECTION OF UNDERGROUND PRIOR TO
- BACKFILLING. 12. CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS PRIOR TO
- FABRICATION OF PIPE SYSTEMS. 13. FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC ONLY.
- 14. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING, HANGING AND BRACING WITH ROOF STRUCTURE. ALL FIRE SPRINKLER PIPING SHALL COMPLY WITH THE FOLLOWING.
- A. ALL PIPING CONCENTRATED LOADS GREATER THAN 100 POUNDS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6 INCHES OF JOIST OR GIRDER PANEL POINTS OR THE JOIST OR GIRDER SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. REFER TO GENERAL STRUCTURAL NOTES AND THE "TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD" ON THE STRUCTURAL DRAWINGS.
- B. CONCENTRATED POINT LOADS, SINGLE OR MULTIPLE, TOTALING 100 POUNDS OR LESS CAN BE LOCATED AT ANY POINT ALONG THE BOTTOM CHORD OF AN OPEN WEB JOIST OR GIRDER BETWEEN ADJACENT PANEL POINTS WITHOUT MEETING THE REQUIREMENTS ABOVE. A LIMIT OF (4) CONCENTRATED 100# MAXIMUM POINT LOADS PER JOIST OR GIRDÉR SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- C. JOIST BRIDGING SHALL NEVER BE USED TO SUPPORT HANGING LOADS. D. BRACING OF FIRE SPRINKLER PIPING TO THE BOTTOM CHORD OF JOISTS OR GIRDERS WILL NOT BE ALLOWED IN ANY INSTANCE. ALL LATERAL BRACES MUST CONNECT TO THE TOP FLANGE/TOP CHORD OF THE FRAMING MEMBER ABOVE UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- E. PIPING SHALL BE BRACED TO RESIST BOTH LATERAL AND LONGITUDINAL SEISMIC LOADS. EARTHQUAKE BRACING CALCULATIONS TO BE MADE WITH Ss VALUE IN STRUCTURAL DRAWINGS.
- F. RESTRAINTS OR LATERAL SWAY BRACES SHALL BE PROVIDED ON **BRANCHLINES WHERE PIPING IS NOT SUPPORTED WITHIN 6 IN. OF THE** STRUCTURE.
- 15. STEEL ROOF DECKING SHALL NOT BE USED TO SUPPORT LOADS FROM FIRE SPRINKLER ELEMENTS OR EQUIPMENT OF ANY KIND.
- 16. ALL FIRE SPRINKLER PIPING RUNNING IN OCCUPIED AREAS WITH EXPOSED STRUCTURE SHALL RUN WITH SLOPE OF ROOF DECK.
- 17. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE ANY CROSSOVERS OR DROPS AT MAIN CORRIDOR TO AVOID CONFLICTS WITH SKYLIGHTS. DROPS & CROSSOVER LOCATIONS SHALL BE VERIFIED WITH PROJECT ARCHITECT PRIOR TO INSTALLATION.
- 18. ALL FIRE MAINS SHALL RUN ABOVE AREAS WITH CEILINGS. NO MAINS WILL BE ALLOWED IN OCCUPIED AREAS EXPOSED TO ROOF DECK.
- 19. IN EXPOSED AREAS THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE PIPING & HEAD LOCATIONS WITH HVAC DUCTWORK, DIFFUSERS AND ALL LIGHTING LAYOUT.
- 20. FIRE SPRINKLER HEADS IN ALL CORRIDORS SHALL BE INSTALLED AS CLOSE TO THE CENTERLINE OF THE CORRIDOR AS POSSIBLE.
- 21. FIRE SPRINKLER HEADS SHALL BE INSTALLED IN THE CENTER QUARTER PANEL OF CEILING TILES.
- 22. ALL SPRINKLER MAINS SHALL RUN THRU TRUSSES OR BETWEEN TRUSSES IN TRUSS SPACE. INSTALLING MAINS BELOW BOTTOM CHORD OF TRUSSES WILL NOT BE ALLOWED.
- 23. FIRE SPRINKLER CONTRACTOR SHALL CAREFULLY COORDINATE SPRINKLER SYSTEM WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR VARIATIONS IN CEILING TYPE AND CEILING ELEVATION CHANGES.
- 24. WHERE RISERS ROOMS CONTAIN A MANIFOLD WITH MORE THAN ONE RISER, EACH SYSTEM SHALL HAVE A SEPARATE CHECK VALVE, BUTTERFLY VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY AND PRESSURE GAUGE. 25. ALL FIRE HEADS AT CORRIDORS SHALL BE LOCATED AT CENTER OF TILE.
- 26. ALL FIRE HEADS AT CLASSROOM AND ADMINISTRATION AREAS SHALL BE LOCATED AT CENTER OF TILE AND 1/4 POINTS.
- 27. FIRE DEPARTMENT CONNECTION SHALL BE A DUPLEX TYPE WITH LOCKING KNOX CAPS PER WSD STANDARDS AND LOCAL FIRE AUTHORITY REQUIREMENTS.

FIRE PROTECTION LEGEND

NOMPEX	• •	LIGHT HAZARD LAY-IN OR GYP. BOARD CEILING (VERIFY AND COORDINATE WITH ARCHITECTURAL DRAWINGS) CONCEALED TYPE SPRINKLER HEADS SIMILAR TO VIKING VK4621 INSTALLED TIGHT TO CEILING WITH BRIGHT WHITE COVER PLATE
$\begin{array}{cccccccccccccccccccccccccccccccccccc$:	ORDINARY HAZARD, GROUP 1 LAY-IN OR GYP. BOARD CEILING (VERIFY AND COORDINATE WITH ARCHITECTURAL DRAWINGS) CONCEALED TYPE SPRINKLER HEADS SIMILAR TO VIKING VK4621 INSTALLED TIGHT TO CEILING WITH BRIGHT WHITE COVER PLATE

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NOTE: CONTRACTOR SHALL COORDINATE ALL PIPING HUNG FROM STRUCTURE WITH REQUIREMENTS OF STRUCTURAL ENGINEERS DRAWINGS. SEE STRUCTURAL DRAWINGS FOR EARTHQUAKE BRACING DESIGN VALUES.

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BID DOCUMENTS November 1, 2024 E FIRE

FP501

AUDIOVISUAL	
HD	HDMI INPUT, WALL PLATE W BOX, SINGLE GANG MUDRIN
HV	HDMI AND VGA INPUT, WALL HBL260 JUNCTION BOX, DOL
ТхН	HDBaseT, HDMI INPUT TRAN HUBBELL HBL260 J-BOX, SIN
TxD	HDBaseT, HDMI AND VGA TR WITH HUBBELL HBL260 J-BO
ТхМ	HDBaseT, HDMI, DISPLAY PC SURFACE MOUNTED UNDER
TxT	HDBaseT CATEGORY 6A SF/I HUBBELL, HBL 260 J-BOX, SI

ABBREV.	DESCRIPTION
#	NUMBER
AC	ALTERNATING CURRENT
A.F.F.	ABOVE FINISH FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AM	AMPS METER
AMP	AMPERE
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BFG	BELOW FINISH GRADE
С	CONDUIT
CAB	CABINET
CATB	COMMUNITY ANTENNA TELEVISI
CATV	CABLE TELEVISION
СКТ	CIRCUIT
CLG	CEILING
CNTR	CONTRACTOR
C.O.	CONDUIT ONLY
CRT	COMPUTER TERMINAL
СТ	CURRENT TRANSFORMER
CU	COPPER
C/W	COMPLETE WITH
DB	DECIBEL
DC	DIRECT CURRENT
DWG	DRAWING
(F)	EXISTING TO REMAIN. UNLESS
(=)	OTHERWISE NOTED
EC	EMPTY CONDUIT
EG	EMERGENCY GENERATOR
EMT	ELECTRICAL METALLIC TUBING
EX	EXPLOSION PROOF
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FT	FOOT
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HP	HORSE POWER
HZ	HERTZ
IFC	INTERNATIONAL FIRE CODE
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC COND
IN	INCH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KVAR	KILOVARS
KW	KILOWATT
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MNF	MANUFACTURER
MAX	MAXIMUM
MB	MAIN BUS
MCC	
MCM	1000 CIRCULAR MILLS
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H HUBBELL HBL260 JUNCTION	+18" OR AS NOTED	2. 9.	RxH	HDBaseT, HDMI INPUT RECEIVER, WALL PLATE WITH HUBBELL HBL260 J-BOX, SINGLE GANG MUDRING	BEHIND DISPLAY	2.
PLATE WITH HUBBELL	+18" OR AS NOTED	2. 9.	\otimes	LOUDSPEAKER, CEILING RECESSED OR PENDANT	CEILING	
MITTER, WALL PLATE WITH LE GANG MUDRING	+18" OR AS NOTED	2. 9.	SB#	SOUND BAR, REFER TO SPECIFICATIONS FOR TYPE	UNDER DISPLAY	2. 19.
NSMITTER, WALL PLATE DOUBLE GANG MUDRING	+18" OR AS NOTED	2. 9.	D##	COMMERCIAL GRADE DISPLAY, ## = SIZE (INCHES)	AS NOTED	20.
T AND/OR VGA TRANSMIT, IILLWORK/FURNITURE	UNDER TABLE	9.	SC#	PROJECTION SCREEN. REFER TO SPECIFICATIONS / DRAWINGS FOR SCREEN TYPE AND SIZE	WALL OR CEILING	2.
P, WALL PLATE WITH GLE GANG MUDRING	+18" OR AS NOTED	2. 9.	P# ¹	COMMERCIAL GRADE PROJECTOR	WALL OR CEILING	2.

ABBREVIATIONS INDEX

	ABBREV.	DESCRIPTION
	МН	MANHOLE
	MIC	MICROPHONE
	MIN	MINIMUM
	MTG	MOUNTING
	MTR	MOTOR
	N/A	NOT APPLICABLE
	NC	NORMALLY CLOSED
	NEC	NATIONAL ELECTRICAL CODE
	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
	NFPA	NATIONAL FIRE PROTECTION ASSOC.
	N.I.C.	NOT IN CONTRACT
	NO	NORMALLY OPENED
	NTS	NOT TO SCALE
	OS & Y	OUTSIDE SCREW & YOKE
	PB	PUSHBUTTON
	PF	POWER FACTOR
	PFR	PHASE FAILURE RELAY
	PNL	PANEL
	PT	POTENTIAL TRANSFORMER
	PVC	POLYVINYL CHLORIDE CONDUIT
	(R)	RELOCATE
	RECEP	RECEPTACLE
	REQ	REQUIREMENT
	RLA	RATED LOAD AMPS
	RMP	ROCKY MOUNTAIN POWER
	RMS	ROOT MEAN SQUARE
	SE	SERVICE ENTRANCE
	SPEC	SPECIFICATIONS
	SPKR	SPEAKER
	SS	SELECTOR SWITCH
	SW	SWITCH
	SWBD	SWITCHBOARD
	SWGR	SWITCHGEAR
	ТТВ	TELEPHONE TERMINAL BOARD
	TTC	TELEPHONE TERMINAL CABINET
	TV	TELEVISION
	ТҮР	TYPICAL
	UG	UNDERGROUND
	UPS	UNINTERRUPTED POWER SUPPLY
	V	VOLT (KV-KILOVOLT)
	VA/R	VOLT-AMPS/REACTIVE
	VM	VOLT METER
•	W	WATTS
	W/	WITH
	WH	WATTHOUR METER
	W/O	WITHOUT
	WP	WEATHERPROOF
	XFMR	TRANSFORMER
	XFMR SW	TRANSFER SWITCH
	XP	EXPLOSION PROOF
	1P	SINGLE-PHASE
	2P	TWO-POLE
	3P	THREE-POLE
	4P	FOUR-POLE
	Ø	PHASE

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEÌLING CONTRACTORS. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.
- WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- 10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED. 1. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION.
- COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
- 2. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING						
MAXIMUM LENGTH	BRANCH CIF	BRANCH CIRCUIT VOLTAGE				
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT				
<70	MIN. #12 AWG	MIN. #12 AWG				
70 - 115	MIN. #10 AWG	MIN. #12 AWG				
115 - 170	MIN. #8 AWG	MIN. #10 AWG				
170 - 270	MIN. #6 AWG	MIN. #8 AWG				
271 - 380	NOTE B	MIN. #8 AWG				
>380	NOTE B	NOTE B				

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD. C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL

SHEET INDEX

INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO

- SYMBOLS SCHEDULES AND NOTES
- SPEC, SCHEDULES AND NOTES PARTIAL OVERALL ELECTRICAL PLAN
- ELECTRICAL DEMOLITION FLOOR PLANS
- TEEN CENTER LIGHTING FLOOR PLAN
- TEEN CENTER ELECTRICAL FLOOR PLAN
- ELECTRICAL DIAGRAMS

OWNER.

EXISTING SYSTEMS INFORMATION AND VENDOR CONTACTS (INCLUDE WITHIN BID)

BIDDING DIVISION 26 CONTRACTOR RESPONSIBLE FOR EXPANDING EXISTING SYSTEMS FOR THIS REMODEL PROJECT. PROVIDE A TURN-KEY SOLUTION AND BUILD-OUT FOR ALL IMPACTED SYSTEMS I.E. INTERCOM AND FIRE ALARM.

INTERCOM SYSTEM - EXIST. AUDIO ENHANCEMENT SYSTEM

COMPANY CONTACT

EMAIL

CONTACT

EMAIL

EMAIL

CELL PHONE NO. OFFICE PHONE NO. GENCOMM VALERIE BEATTY (801) 656-7848

vbeatty@gencomminc.com

EXTEND AND REWORK SPEAKERS AND CIRCUITS AS NEEDED. PROVIDE NEW CEILING SPEAKERS, CALL SWITCHES, MODULES, EQUIPMENT, ETC. AND CIRCUITS TO EXISTING RACK AS REQUIRED. MATCH SYSTEM WIRING. UPDATE PROGRAMMING. FIRE ALARM SYSTEM & INTRUSION - EXISTING GAMEWELL

FCI E3 SYSTEM/BOSCH SYSTEM COMPANY NELSON FIRE

> Ashley Nelson & Toby Timothy CELL PHONE NO. (801) 652-7991 OFFICE PHONE NO.

(801) 468-8300	
ashley@nelsonfire.com	toby@nelsonfire.com

EXTEND EXISTING FIRE ALARM INTIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES AS REQUIRED. MATCH SYSTEM WIRING. UPDATE PROGRAMMING. PROVIDE NEW INTRUSION DEVICES E.G. DOOR CONTACTS, MOTION DETECTORS, ETC. AND CIRCUITS TO EXISTING PANEL.

ACCESS CONTROL SYSTEM - EXISTING LENEL SYSTEM

- COMPANY CONTACT CELL PHONE NO. OFFICE PHONE NO.
- CONVERGINT MIKE PAINTER (801) 718-1428 (801) 415-0616 mike.painter@convergint.com

PROVIDE CARD READERS AND ACCESS CONTROL CIRCUITS AS REQUIRED. PROVIDE NEW MODULE CARDS AND ASSOCIATED EQUIPMENT AS REQUIRED. UPDATE PROGRAMMING.

DEVIC	
	E INDICATES INSTALLED IN CEILING.
STANDARD M	OUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS
GENERAL	
	CONDUIT RUN CONCEALED IN WALL OR CEILING CONDUIT RUN CONCEALED IN FLOOR OR GROUND
0	CONDUIT UP
•	CONDUIT DOWN
LIGHTING	
\bigcirc	CEILING LIGHT FIXTURE
Ю	WALL LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	RECESSED WALL-WASH DOWNLIGHT FIXTURE
	EGRESS LIGHT FIXTURE
•	AREA LIGHT POLE AND FIXTURE POST TOP LIGHT POLE AND FIXTURE
>	BOLLARD
	FLOOD OR TRACK FIXTURE
$\overline{\otimes}$ H \otimes	CEILING / WALL MOUNTED EXIT LIGHT
	EMERGENCY LIGHT FIXTURE
	COMBO EXIT / EMERGENCY LIGHT FIXTURE
	REWORK EXISTING RECEPTACLE LOCATION AS REQUIR
U	DUPLEX RECEPTACLE WITH USB OUTLET
	CONTROLLED DUPLEX RECEPTACLE
 	CONTROLLED FOURPLEX RECEPTACLE
=	TVSS PROTECTED RECEPTACLE
	SPECIAL PURPOSE OUTLET
	TOMBSTONE RECEPTACLE
	POWER POLE
EV EV	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER
	DATA OUTLET, ONE CABLE
	DATA OUTLET, TWO CABLES
	DATA OUTLET, THREE CABLES
	TELEVISION OUTLET
WAP WAP	
WAP WAP	SOLID = WALL, DASHED = CEILING
WAP WAP FIRE ALARM	SOLID = WALL, DASHED = CEILING BELL
WAP (WAP) FIRE ALARM	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE
WAP WAP FIRE ALARM C F H	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION EIRE ALARM SIGNAL HORN / STROBE
WAP WAP FIRE ALARM C F H (H) CLG	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE
WAP WAP FIRE ALARM C F H (H) CLG (H	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL
WAP WAP FIRE ALARM C C F H (H) CLG (H E	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE FIRE ALARM SPEAKER / STROBE
WAP (WAP) FIRE ALARM C C F H (H) CLG (H E (E) CLG (C) (C) (C) (C) (C) (C) (C) (C)	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE
WAP (WAP) FIRE ALARM C C F H [H] CLG [H] CLG [H] CLG [E] CLG [E] CLG [S]	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE
WAP WAP FIRE ALARM C F H [H] CLG H [H] CLG [H] CLG [E] CLG [S] CLG	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE
WAP (WAP) FIRE ALARM C F H (H) CLG [H] [H] CLG [H] [E] CLG [E] CLG [S] CLG [S] CLG [] S	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE
WAP WAP FIRE ALARM C F H H H H H H H H E E E E E S S S S S S S S K	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE
WAP WAP FIRE ALARM C F H H H H H H E E E E E E E S [S] CLG S	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE FIRE ALARM SPEAKER ONLY FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)
WAP (WAP) FIRE ALARM C F H (H) CLG [H] CLG [H] CLG [S] CLG [S] CLG [S] CLG [S] CLG [S] CLG [ANN	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM
WAP (WAP) FIRE ALARM C F H [H] CLG [H] CLG [H] CLG [E] CLG [S] CLG [S] CLG [S] CLG [S] CLG [S] CLG [O] N (O) N	SOLID = WALL, DASHED = CEILING SOLID = WALL, DASHED = CEILING SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR
WAP WAP FIRE ALARM C F H H H H H H E E E E E S W S S S S S S S S S S S S <td>SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE FIRE ALARM STROBE YOUNCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS JALL 120V RECEPTACLES SHALL BE CONS</td>	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE FIRE ALARM STROBE YOUNCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS JALL 120V RECEPTACLES SHALL BE CONS
WAP WAP FIRE ALARM C F H H H H H H E E E E S <td>SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS [ALL 120V RECEPTACLES SHALL BE CONS RECEPTACLE SWITCH PACK</td>	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE WALL FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS [ALL 120V RECEPTACLES SHALL BE CONS RECEPTACLE SWITCH PACK
WAP WAP FIRE ALARM C F C F H [H] CLG H [H] CLG [H] CLG [S] CLG [B] ANN O V O B MULTIPLE SY O O O	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS [ALL 120V RECEPTACLES SHALL BE CONS RECEPTACLE SWITCH PACK DUPLEX RECEPTACLE UPPER OUTLET SWINCH CONTROL SWITCH CONTROL
WAP WAP FIRE ALARM □ <td>SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS [ALL 120V RECEPTACLES SHALL BE CONS RECEPTACLE SWITCH PACK DUPLEX RECEPTACLE UPPER OUTLET SIMPLEX RECEPTACLE</td>	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS [ALL 120V RECEPTACLES SHALL BE CONS RECEPTACLE SWITCH PACK DUPLEX RECEPTACLE UPPER OUTLET SIMPLEX RECEPTACLE
WAP WAP FIRE ALARM C F H H H H H E E E E S<	SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM SPEAKER / STROBE WALL FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE CONCEALED FIRE ALARM STROBE WALL FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) FIRE ALARM ANNUNCIATOR PANEL ASPIRATING SMOKE DETECTION SYSTEM BEAM DETECTOR STEM SYMBOLS [ALL 120V RECEPTACLES SHALL BE CONS RECEPTACLE SWITCH PACK DUPLEX RECEPTACLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE

COLOR LEGEND

SYMBOL LEGEND

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE. 2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR. 3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS. 4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.

PE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V. IEASURED TO TOP OF THE BOX FROM FINISHED FLOOR. H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.

ARROWS INDICATES A DOUBLE FACE UNIT. NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP

NOTES:

S AND ELEVATIONS FOR HEIGHT. PT INDICATES NEMA CONFIGURATION. X AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND NDICATES INSTALLED IN CEILING.

- 12. COORDINATE WITH DOOR HARDWARE SUPPLIER. 13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS,
- MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED. 14. ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION.

15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.

- 16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS. 17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
- 19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION. 20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.

*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

SYMBOL	DESCRIPTION	MOUNTING	NOTES	SYMBOL	DESCRIPTION	MOUNTING	NOTES
	CIRCUIT. HOME RUN TO PANEL	neiam			EQUIPMENT PANEL. SEE DRAWINGS	+72"	6.
						+18"	6
							0.
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			X X	EQUIPMENT NUMBER		
O	CONDUIT UP			X			
•	CONDUIT DOWN			X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
	CONDUIT STUB LOCATION	CAP CONDUIT		X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
S	CONDUIT / CIRCUIT CONTINUATION						
IGHTING							
\bigcirc	CEILING LIGHT FIXTURE	CEILING	1.	PP	POWER PACK	ABOVE	SEE DIAGRAM,
Ю	WALL LIGHT FIXTURE	AS NOTED	1.	(RC) v	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE	SEE DIAGRAM,
$\overline{\bigcirc}$	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	(EP)	EMERGENCY LIGHTING CONTROL UNIT	ABOVE	SEE DIAGRAM,
	BECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1	\$ ³	THREE-WAY SWITCH	+46"	<u>SPEC.</u> 2. 4.
			1			+46"	2.4
			1.	ФК		- 46"	2. 4.
			1.			40	2.4.
	POST TOP LIGHT POLE AND FIXTURE	BASE	1. 14. SEE DIAGRAM	5	SWITCH WITH PILOT LIGHT	+46"	2.4.
	BOLLARD	BASE	1. 14. SEE DIAGRAM	S ^e	VARIABLE INTENSITY SWITCH	+46"	2. 4.
	STEP LIGHT FIXTURE	AS NOTED	1.	\$™	TIMER SWITCH	+46"	2. 4.
\bigcirc	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.	Ŝ	MOMENTARY CONTACT SWITCH	+46"	2. 4.
\triangleleft	FLOOD OR TRACK FIXTURE	AS NOTED	1.	X	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SPEC.
\otimes H \otimes	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/	1. 3. 8.		DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM,
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.	H		+46"	2.4. SEE
$\langle\!\langle \!\rangle \rangle$	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.	(P)	PHOTO-ELECTRIC CONTROL	AS NOTED	MOUNT AS
	TIME CLOCK	+60"	2.		DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM,
OWER ALL 1	20V RECEPTACLES SHALL BE CONSIDERED TAMPERPROOF						15PEC.
		+18" OR	2.0		PLUGMOLD	+46" OR	2 SEE SPEC
R	REWORK EXISTING RECEPTACLE LOCATION AS REQUIRED	AS NOTED	2. 9.		FLOGINOLD FLAT PANEL DISPLAY WALL BOX TVSS RECEPT	AS NOTED	SEE DIAGRAM,
		+18" OR			DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SPEC. 26 2726
U	DUPLEX RECEPTACLE WITH USB OUTLET	AS NOTED	2. 9.		CEILING PROJECTION SYSTEM CEILING BOX	CEILING	SPEC.
= <u>G</u>	CONTROLLED DUPLEX RECEPTACLE	AS NOTED	2. 9.		DOORBELL CHIME	+90"	2.
-	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	AS NOTED	2. 9. 11.	FB	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
=©	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	PT	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
=	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.		PANELBOARD	+72"	6.
	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2. 10. W/ CAP.		MAIN DISTRIBUTION PANEL		
•	CORD DROP		SEE DIAGRAM		TELEPHONE DEMARCATION BOARD		
$\boxed{-}$	CORD REEL		SEE DIAGRAM	ĊĿĠ	EQUIPMENT CEILING RACK	CEILING	
=	TOMBSTONE RECEPTACLE				EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.
	POWER POLE				EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.
V) (EV)	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER			M	UTILITY METER / CT CABINET	+72"	6.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER			M	UTILITY METER / CT CABINET	+72"	6.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER	+60" OR	2		UTILITY METER / CT CABINET	+72"	6.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER CATIONS WALL PHONE DATA OUTLET, ONE CADLE	+60" OR AS NOTED +18" OR	2.		UTILITY METER / CT CABINET SPLITTER	+72" WALL / CEILING ABOVE	6.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER CATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO OVEL ED	+60" OR AS NOTED +18" OR AS NOTED +18" OR	2. 2. 9. 11.	SPL VIA	UTILITY METER / CT CABINET SPLITTER VIA	+72" WALL / CEILING ABOVE CEILING ABOVE	6. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER CATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES	+60" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR	2. 2. 9. 11. 2. 9. 11.	(SPL) (VIA) (BDA)	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING ABOVE	6.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER CATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES	+60" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11.	SPL VIA BDA ANT_XX	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING	6.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER CATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY	+60" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11.	SPL VIA BDA ANT XX	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING MOUNTED	6. 11. 2. 9. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER CATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET	+60" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11.	SPL VIA BDA ANT XX S	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING CEILING MOUNTED FLOOR MOUNTED	 6. 11. 2. 9. 11. 2. 9. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER CATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	+60" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11. 9. 11.	SPL VIA BDA ANT XX S	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR DATA OUTLET, SOLID=WALL, DASHED=CEILING "XX" INDICATE PURPOSE : SC=SECURITY , AV=AUDIOVISUAL	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING MOUNTED FLOOR MOUNTED	 6. 11. 2. 9. 11. 2. 9. 11. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER ATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	+60" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11. 9. 11.	SPL VIA BDA ANT _{XX}	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR DATA OUTLET, SOLID=WALL, DASHED=CEILING "XX" INDICATE PURPOSE : SC=SECURITY , AV=AUDIOVISUAL	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING MOUNTED FLOOR MOUNTED	 6. 11. 2. 9. 11. 2. 9. 11. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER ATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING BELL	+60" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED +18" OR AS NOTED	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11. 9. 11.	SPL VIA BDA ANT XX D D	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR DATA OUTLET, SOLID=WALL, DASHED=CEILING "XX" INDICATE PURPOSE : SC=SECURITY , AV=AUDIOVISUAL SMOKE DETECTOR	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING MOUNTED FLOOR MOUNTED	6. 11. 2. 9. 11. 2. 9. 11. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER ATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE	+60" OR AS NOTED +18" OR AS NOTED	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11. 9. 11. 2. 9. 11.	SPL VIA BDA ANT_XX O O S O SC	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR DATA OUTLET, SOLID=WALL, DASHED=CEILING "XX" INDICATE PURPOSE : SC=SECURITY , AV=AUDIOVISUAL SMOKE DETECTOR SMOKE/CARBON MONOXIDE DETECTOR	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING MOUNTED FLOOR MOUNTED FLOOR MOUNTED	6. 11. 2. 9. 11. 2. 9. 11. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER ATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION	+60" OR AS NOTED +18" OR AS NOTED +194" (CEILING +46" (CEILING	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11. 2. 9. 11. 9. 11. 2. 9. 11. 9. 11.	SPL VIA BDA ANT_XX O O SC O	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR DATA OUTLET, SOLID=WALL, DASHED=CEILING "XX" INDICATE PURPOSE : SC=SECURITY , AV=AUDIOVISUAL SMOKE DETECTOR SMOKE/CARBON MONOXIDE DETECTOR CARBON MONOXIDE DETECTOR	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING MOUNTED FLOOR MOUNTED CEILING CEILING CEILING	6. 11. 2. 9. 11. 2. 9. 11. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER ATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE	+60" OR AS NOTED +18" OR AS NOTED 	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11. 9. 11. 2. 2.	SPL VIA BDA ANT_XX O S O S O C O	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR DATA OUTLET, SOLID=WALL, DASHED=CEILING "XX" INDICATE PURPOSE : SC=SECURITY , AV=AUDIOVISUAL SMOKE DETECTOR SMOKE/CARBON MONOXIDE DETECTOR CARBON MONOXIDE DETECTOR HEAT DETECTOR	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING CEILING CEILING CEILING CEILING CEILING CEILING	6. 11. 2. 9. 11. 2. 9. 11. 11.
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER ATIONS WALL PHONE DATA OUTLET, ONE CABLE DATA OUTLET, TWO CABLES DATA OUTLET, THREE CABLES DATA OUTLET, THREE CABLES DATA OUTLET, "X" INDICATES QUANTITY TELEVISION OUTLET WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING BELL CHIME / STROBE FIRE ALARM MANUAL STATION FIRE ALARM SIGNAL HORN / STROBE CONCEALED FIRE ALARM HORN / STROBE	+60" OR AS NOTED +18" OR AS NOTED 	2. 2. 9. 11. 2. 9. 11. 2. 9. 11. 2. 9. 11. 9. 11. 9. 11. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	SPL VIA BDA ANT_XX ○ ○ S ○	UTILITY METER / CT CABINET SPLITTER VIA FIBER BDA ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL DATA OUTLET, CELING DATA OUTLET, FLOOR DATA OUTLET, SOLID=WALL, DASHED=CEILING "XX" INDICATE PURPOSE : SC=SECURITY , AV=AUDIOVISUAL SMOKE DETECTOR SMOKE DETECTOR CARBON MONOXIDE DETECTOR HEAT DETECTOR DUCT SMOKE DETECTOR	+72" WALL / CEILING ABOVE CEILING ABOVE CEILING ABOVE CEILING	6. 11. 2. 9. 11. 2. 9. 11. 11. 11. MTD. IN DUCT
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GHTING FIXTURES	POWER DEVICES		AUDIOVISUAL
GHTING DEVICES	TELECOMMUNICATIONS		SECURITY
DWER EQUIPMENT	FIRE ALARM		NURSECALL
ABLE TRAY	CONDUIT		

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	CONNE	CTION TYPE NOTES:					R	ESPONSI	BILITY LEG	END:								
	1. NON 2. FUSE 3. BREA 4. MAN 5. MAG	FUSED DISCONNECT SWITCH ED DISCONNECT SWITCH AKER IN ENCLOSURE JAL STARTER WITH THERMAL C NETIC STARTER	OVERLOAD				A. B. C. D.	FURNISH FURNISH FURNISH FURNISH	IED, INSTA IED AND II IED UNDE IED, INSTA	ALLED AN NSTALLEE R ANOTH ALLED AN	D CONNE D UNDER / ER DIVISI D CONNE	CTED UNI ANOTHEF ON BUT IN CTED UN	DER DIVISION DIVISION. RE ISTALLED AND DER ANOTHEF	26(16) QUIRED CONN CONNECTED O DIVISION	IECTION L UNDER D	INDER DIV DIVISION 2	/ISION 26 6(16)	(16)
	6. MAG 7. MAG 8. MAG 9. VARI 10. REL 11. DIR 12. REC 13. TWO 14. SOL	NETIC STARTER/NON-FUSED DI NETIC STARTER/FUSED DISCON NETIC STARTER/BREAKER COM ABLE FREQUENCY DRIVE DUCED VOLTAGE STARTER ECT CONNECTION CEPTACLE/SPECIAL PURPOSE C D-SPEED STARTER. COORDINA ID STATE SOFT-STARTER	SCONNEC NECT COI IBINATION DUTLET/ET(TE WITH M	T COMBIN MBINATIO C. OTOR TYI	NATION DN PE		CI NI SI NI NI NI	B = CIRCU OTE 1: PE OTE 2: OV IZED IN A OTE 3: AI OTE 4: CC OTE 5: FA	JIT BREAK R 250.1221 /ERCURRE CCORDAN L EQUIPM NTROLLE N TO INTE	ER (A), EQUIF ENT PROT CE WITH I IENT TO E D BY OCC ERLOCK V	MENT GF ECTION I FUSE MFF E RATED CUPANCY VITH CLO	ROUND IS DEVICE (C R RECOM FOR THE SENSOR THES DR	NOT REQUIRE CPD) SHOWN MENDATION F ENVIRONMEN S (BY E.C.) CO YER.	ED TO BE LARC IS LOCATED A OR MOTOR NA IT FOR WHICH ORDINATE WIF	ger Than T Power Me Plate It is inst Ring with	THE PHA PANEL. A E RATING. ALLED. I E.C.	SE COND ALL FUSIN	UCTOR G TO BE
				ELE		CAL EC		ENT					WIRE		00	PD	(FD ES)	
UNIT	#	DESCRIPTION	đ	LA FLA	DAD WCY	VA	VOLTAGE	PHASE	FULL LOAD AMPS	CONDUIT SIZE	SETS	ατγ	SIZE	EQ. GROUND	ТҮРЕ	AMPS	STARTER/ DISC/ V OTHER (SEE NOT	REMARKS
EF	1	EXHAUST FAN	0.25	0 A	0 A	0 VA	120 V	1	5.8 A	3/4"	1	2	12	12	СВ	20 A	4 A	CONTROLLED BY TIMER SWITCH
EF	2	EXHAUST FAN	0.25	0 A	0 A	0 VA	120 V	1	5.8 A	3/4"	1	2	12	12	СВ	20 A	4 A	CONTROLLED BY LIGHTING OCCUPANCY SENSORS, 20 MINUTE DELAY
EF	E	EXIST. EXHAUST FAN	0.00	0 A	0 A	216 VA	120 V	1	1.8 A	3/4"	1	2	12	12	СВ	20 A	4 A	CONTROLLED BY LIGHTING OCCUPANCY SENSORS, 20 MINUTE DELAY

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- ELECTRICAL GENERAL PROVISIONS DESCRIPTION OF WORK: EXTENT OF ELECTRICAL WORK IS INDICATED ON DRAWINGS, PROVIDE ALL LABOR, MATERIALS, EQUIPMENT SERVICE NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWI ELECTRICAL CONNECTIONS FOR EQUIPMENT
 - GROUNDING CONDUIT RACEWAY CONDUCTORS AND CABLES
 - ELECTRICAL BOXES AND FITTINGS SUPPORTING DEVICES
 - WIRING DEVICES OVERCURRENT PROTECTIVE DEVICES MOTOR AND CIRCUIT DISCONNECTS
 - LIGHT FIXTURES ELECTRICAL IDENTIFICATION
 - TELECOMMUNICATIONS INTERCOM
 - FIRE ALARM AND DETECTION SYSTEMS
- VISIT THE SITE DURING THE BIDDING PERIOD TO DETERMINE EXISTING CONDITIONS AFFECTING ELECTRICAL AND OTHER WORK. ALL FROM SITE CONDITIONS AND/OR PREPARATION SHALL BE INCLUDED IN THE BASE BID. NO ADDITIONAL CHARGES WILL BE ALLOWED D SITE INSPECTION. QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). COMPLY WITH REQUIREMENT
- LOCAL ORDINANCES. OBTAIN ALL PERMITS, INSPECTIONS, ETC. FROM AUTHORITY HAVING JURISDICTION (AHJ). EMPLOY ONLY QUALIF WITH AT LEAST THREE YEARS OF EXPERIENCE. WORKMANSHIP SHALL BE NEAT, HAVE A GOOD MECHANICAL APPEARANCE AND CONI ELECTRICAL STATE CONTRACTING LICENSE. PROVIDE EQUIPMENT AND MATERIAL THAT ARE UNDERWRITERS LABORATORIES INC. (I ABELED
- SUBMITTALS: AFTER THE CONTRACT IS AWARDED BUT PRIOR TO MANUFACTURE OR INSTALLATION OF ANY EQUIPMENT, PREPARE (
- DRAWINGS. PROVIDE SUBMITTALS IN PORTABLE DOCUMENT FORMAT (PDF). DOCUMENTS MUST BE ELECTRONICALLY BOOKMARKED AND KEYWORD SEARCHABLE USING ADOBE ACROBAT (HTTP://WWW.ADO OR BLUEBEAM REVU (HTTP://WWW.BLUEBEAM.COM) FOR EACH RELEVANT SECTION. (I.E. INCLUDE ELECTRONIC BOOKMARKS SEI
- FIXTURES" FROM "PANELBOARDS".) ELECTRONICALLY HIGHLIGHT ALL OPTIONS FOR LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. MANUAL HIGHLIGHTING AND SC DOCUMENTS IS NOT ACCEPTABLE AND WILL NOT BE REVIEWED. PROVIDE ONLY COMPLETED CUTSHEETS FOR ALL FIXTURE AND EQUIPMENT TYPES. BLANK CUTSHEETS SUBMITTED WITH A SCH
- ACCEPTABLE AND WILL NOT BE REVIEWED. A MAXIMUM OF ONE SUBMITTAL PER SPECIFICATION SECTION IS ALLOWED. IT IS NOT ACCEPTABLE TO PROVIDE A PRODUCT BY SUBMITTAL. SINGLE PRODUCT BY PRODUCT SUBMITTALS WILL NOT BE REVIEWED. WIRING DEVICES
- PANELBOARDS OVERCURRENT PROTECTION DEVICES MOTOR AND CIRCUIT DISCONNECTS
- LIGHT FIXTURES LIGHTING CONTROLS
- ELECTRICAL IDENTIFICATION TELECOMMUNICATIONS
- INTERCOM FIRE ALARM AND DETECTION SYSTEMS
- RECORD DRAWINGS: MAINTAIN ON A DAILY BASIS, A COMPLETE SET OF RECORD DRAWINGS, REFLECTING AN ACCURATE DIMENSIO BURIED OR CONCEALED WORK. MARK RECORD DRAWINGS TO SHOW THE PRECISE LOCATION OF CONCEALED WORK AND EQUIPMEN CONCEALED OR EMBEDDED CONDUIT AND JUNCTION BOXES AND ALL CHANGES AND DEVIATIONS IN THE WORK FROM THAT SHOWN (DOCUMENTS.
- OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATING INSTRUCTION AND MAINTENANCE DATA BOOKS FOR ALL EQUIPME FURNISHED UNDER THIS DIVISION. GUARANTEE: ENSURE THAT ELECTRICAL SYSTEMS INSTALLED UNDER THIS CONTRACT IS IN PROPER WIRING ORDER AND IN COMPLI
- DRAWINGS, SPECIFICATIONS, AND/OR AUTHORIZED CHANGES. WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK OR MATERIALS N DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- FIRE PROTECTION SEALS: SEAL ALL PENETRATIONS FOR WORK OF THIS SECTION THROUGH FIRE RATED FLOORS, WALLS, AND CEILI THE SPREAD OF SMOKE, FIRE, TOXIC GAS, OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING AND AFTER FIRE. POWER OUTAGES: ALL POWER OUTAGES REQUIRED FOR EXECUTION OF THIS WORK SHALL OCCUR DURING THE NON-STANDARD W AT THE CONVENIENCE OF THE OWNER. INCLUDE ALL COSTS FOR OVERTIME WORK IN BID.
- ELECTRICAL CONNECTION FOR EQUIPMENT VERIFY EXACT LOAD AND LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN FOR EACH ELECTRICAL CONNECTION. PROVIDE COMPLE MATERIAL, INCLUDING BUT NOT NECESSARILY LIMITED TO, RACEWAYS, CONDUCTORS, CORDS, CORD CAPS, PLUGS, WIRING DEVICES CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLES OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES, TERMINATIONS, AND CONNECTIONS AS REQUIRED. FOR PERM FIXED EQUIPMENT, PROVIDE FLEXIBLE SEAL-TITE CONNECTION. FOR MOVABLE AND/OR PORTABLE EQUIPMENT, PROVIDE WIRING DE AND MULTI-CONDUCTOR CORD.

GROUNDING PROVIDE GROUNDING AND BONDING OF ALL ELECTRICAL AND COMMUNICATION APPARATUS, MACHINERY, APPLIANCES, BUILDING C ITEMS REQUIRED BY THE NEC TO PROVIDE A PERMANENT, CONTINUOUS LOW IMPEDANCE, GROUNDING SYSTEM. PROVIDE AN NEC CONDUCTOR IN ALL RACEWAYS USED FOR POWER DISTRIBUTION. CONDUIT RACEWAYS

- PROVIDE METAL CONDUIT, TUBING, AND FITTINGS OF TYPES, GRADES, SIZES, AND WEIGHTS (WALL THICKNESS) AS REQUIRED; WITH I OF 3/4". INSTALL ELECTRICAL RACEWAY SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICAB OF NEC AND NECA "STANDARD OF INSTALLATION" IN ACCORDANCE WITH THE FOLLOWING:
- FEEDERS: INSTALL FEEDERS RATED 100 AMPS AND GREATER, IN ELECTRICAL METALIC CONDUIT (EMT); WHERE BURIED BELOW (CONCRETE ENCASED NON-METALLIC CONDUIT OR DUCT (SCHEDULE 40 PVC). BRANCH CIRCUITS, AND INDIVIDUAL EQUIPMENT CIRCUITS RATED LESS THAN 100 AMPS: INSTALL IN ELECTRICAL METALLIC TUBII
- LOCATED IN POURED WALLS, BELOW CONCRETE SLAB-ON-GRADE, OR IN EARTH FILL, INSTALL IN NON-METALLIC PLASTIC DUCT ENCASE NON-METALLICPLASTIC DUCT1-1/4" AND LARGER IN CONCRETE. PROVIDE RIGID METAL CONDUIT (RMC) FOR ALL BENDS IN BURIED CONDUIT GREATER THAN 30 DEGREES. PROVIDE PROTECTIVE METAL CONDUIT BENDS. INSTALL FLEXIBLE CONDUIT FOR CONNECTIONS OF MOTORS, TRANSFORMERS, AND OTHER ELECTRICA
- WHERE SUBJECT TO MOVEMENT AND VIBRATIONS. PROVIDE OZ, EXPANSION FITTINGS ON ALL CONDUITS CROSSING BUILDING EX BOTH IN SLAB AND SUSPENDED. PROVIDE SURFACE RACEWAYS OF SIZES AND CHANNELS INDICATED. PROVIDE FITTINGS THAT MATCH AND MATE WITH RACEWAY

CONDUCTORS AND CABLES PROVIDE FACTORY-FABRICATED CONDUCTORS FOR SIZED, RATINGS, MATERIAL, AND TYPES INDICATED FOR EACH SERVICE. PROVID CONDUCTORS, WITH THHN/THWN INSULATION. SIZE ALL CONDUCTORS IN ACCORDANCE WITH NEC; MINIMUM SIZE TO BE #12 AWG. PR CONDUCTORS FOR #8 AWG AND LARGER.

ELECTRICAL BOXES AND FITTINGS PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL INTERIOR OUTLET WIRING BOXES, CORROSION-RESISTANT CAST-METAL WEATHERPROOF OUTLET WIRING BOXES, CODE-GAGE SHEET STEEL JUNCTIONS AND PULL BOXES, CAST-IRON WATERPROOF ADJUSTABLE FLOOR BOXES, GALVANIZED CAST-METAL CONDUIT BODIES, CORROSION-RESISTANT PUNCHED-STEEL BOX KNOCKOUT CLOSURES, CONDUIT LOCKOUTS AND MALLEABLE STEEL CONDUIT BUSHINGS AND OFFSET CONNECTORS, AND ALL ACCESSORIES AS REQUIRED TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION. FASTEN BOXES RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED, OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY. USE BAR HANGERS FOR STUD CONSTRUCTION.

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ELECTRICAL	SPECIFICATIONS
IT, SUPERVISION AND VING ITEMS:	 SUPPORTING DEVICES PROVIDE SUPPORTS, ANCHORS, SLEEVES AND SEALS AS REQUIRED FOR A COMPLETE RACEWAY SUPPORT SYSTEM, INCLUDING BUT NOT LIMITED TO: CLEVIS HANGERS, RISER CLAMPS, C-CLAMPS, BEAM CLAMPS, ONE AND TWO HOLE CONDUIT STRAPS, OFFSET CONDUIT CLAMPS, EXPANSION ANCHORS, TOGGLE BOLTS, THREADED RODS, U-CHANNEL STRUT SYSTEM, AND ALL ASSOCIATED ACCESSORIES. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES TO INSURE SUPPORTING DEVICES COMPLY WITH REQUIREMENTS. PROVIDE RIGID ATTACHMENT OF ALL FLOOR MOUNTED EQUIPMENT TO THE FLOOR SLAB OR STRUCTURAL SYSTEM.
	 ELECTRICAL SEISMIC CONTROL PROVIDE SEISMIC CONTROL EQUIPMENT INCLUDING BUT NOT LIMITED TO: VIBRATION ISOLATORS, FLEXIBLE CONNECTIONS, RIGID STEEL FRAMES, ANCHORS, INSERTS AND ATTACHMENTS, SEISMIC SNUBBER AND BRACING TO MEET THE SEISMIC REQUIREMENTS FOR THE PROJECT SITE.
	 WIRING DEVICES PROVIDE GRADE FACTORY-FABRICATED WIRING DEVICES, IN TYPES, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED AND COMPLYING WITH NEMA STDS PUB NO. WD-1. PROVIDE HEAVY DUTY SPECIFICATION GRADE, 20- AMPERES RATED, GROUNDING TYPE CONVENIENCE OUTLETS,. PROVIDE 20- AMPERES RATED TOGGLE SWITCHES. CONSTRUCT WIRING DEVICE OF HEAVY DUTY HIGH IMPACT NYLON AND PROVIDE STAINLESS STEEL COVER PLATES TO MATCH. PROVIDE GREY COLORED DEVICES OR AS SELECTED BY BY ARCHITECT.
L COSTS ARISING DUE TO INADEQUATE	 OVERCURRENT PROTECTIVE DEVICES PROVIDE OVERCURRENT PROTECTIVE DEVICES OF THE SAME MANUFACTURER AS THE EXISTING SWITCHBOARD AND/OR PANELBOARD MANUFACTURER. PROVIDE FACTORY-ASSEMBLED DEVICES OF AMPERAGE, VOLTAGE, AND RMS INTERRUPTING RATING SHOWN.
ENTS OF STATE AND IFIED CRAFTSMEN NFORM TO BEST UL) LISTED AND	 MOLDED CASE THERMAL TRIP CIRCUIT BREAKERS: MOLDED CASE THERMAL TRIP CIRCUIT BREAKERS: PROVIDE FACTORY -ASSEMBLED BOLT-ON MOLDED CASE CIRCUIT BREAKERS WITH PERMANT TRIP AND ADJUSTABLE INSTANTANEOUS MAGNETIC TRIP IN EACH POLE. SERIES RATING IS NOT ACCEPTABKLE. CONSTRUCT BREAKERS FOR MOUNTING AND OPERTING IN ANY PHYSICAL POSITION AND IN AN AMBIENT TEMPERATURE OF 40 DEGREES C. CIRCUIT BREAKERS 15 AMPS THROUGH 599 AMPS SHALL BE MODED CASE SOLID-STATE CIRCUIT BREAKERS.
COMPLETE SHOP	 LIGHTING FIXTURES PROVIDE LIGHTING FIXTURES COMPLETE WITH ALL COMPONENTS FOR EACH SIZE, TYPE, AND RATING INDICATED. THIS INCLUDES, BUT NOT LIMITED TO HOUSING, DRIVER, REFLECTORS, AND WIRING. SIZE FUSES PER BALLAST MANUFACTURER'S RECOMMENDATION. PROVIDE ALL NECESSARY SUPPORTS,
DOBE.COM/ACROBAT) EPARATING "LIGHT	BRACKETS, AND MISCELLANEOUS EQUIPMENT FOR MOUNTING OF FIXTURES. SUPPORT ALL GRID MOUNTED FIXTURES FROM THE BUILDING STRUCTURE WITH #12 GA. STEEL WIRE ATTACHED TO EACH CORNER; INDEPENDENT OF THE CEILING SYSTEM. PROVIDE BACKING SUPPORTS. PROVIDE GYPSUM BOARD PROTECTION AS REQUIRED TO MAINTAIN FIRE RATING OF EACH CEILING IN WHICH FIXTURES ARE INSTALLED. PROVIDE ALL EXTERIOR FIXTURES WITH DAMP OR WET LOCATION LABEL AS REQUIRED BY APPLICATION. PROVIDE CLASS 2 WIRING FOR ALL FIXTURES INDICATED TO HAVE 0-10V DIMMING.
CANNING OF THE	ELECTRICAL IDENTIFICATION
HEDULE ARE NOT	 PROVIDE ELECTRICAL IDENTIFICATION PRODUCTS FOR BURIED ELECTRICAL LINES, ARC-FLASH HAZARD LABELS (ANSI Z535.4), SOURCE OF SUPPLY LABELS, AVAILABLE FAULT CURRENT LABELS AND EMERGENCY OPERATING SIGNS TO EQUIPMENT INSTALLED AS PART OF THIS PROJECT.
PRODUCT	 PROVIDE NYLON TYPE COVERPLATES THAT MATCH DEVICES. PROVIDE METAL COVERS FOR ALL DEVICES IN UNFINISHED SPACES PROVIDE LABELS ON COVERPLATES INDICATING SOURCE OF POWER (I.E. PANEL - CIRCUIT #).
	 PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVERPLATES, BACKBOARDS, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED. PROVIDE CABLING/PATHWAY FROM EACH TELEPHONE AND DATA DEVICE TO CABLE TRAY OR TELECOM RACK (WHICHEVER IS CLOSER). COMPLY WITH NEC, BICSI AND RECOGINZED INDUSTRY PRACTICES. COMPLY WITH JORDAN SCHOOL DISTRICT STANDARDSPROVIDE NYLON PULL CORD IN ALL INSTALLED RACEWAY. A. PROVIDE COPPER BACKBONE DISTRIBUTION SYSTEM BETWEEN TELECOMMUNICATION SPACES AS SHOWN ON DRAWINGS. HORIZONTAL CABLING DISTRIBUTION SYSTEM -BALANCED TWISTED PAIR GENERAL:
DNAL RECORD OF ALL NT, INCLUDING	 A. PROVIDE APPROPRIATE NOMBER OF CATEGORY 6 HORIZONTAL CABLES, PATCH CABLES, WORK AREA CABLES, FOR ALL TERMINATED DATA DROPS, BETWEEN SWITCHES, ETC. SO THAT BUILDING-WIDE NETWORKING WILL BE OPERATIONAL ONCE ALL INSTALLATION IS COMPLETE. HORIZONTAL CABLING A. PROVIDE CAT 6 UTP, MIN-COMPLIANT, 4-PAIR 100ΩBALANCED TWISTED PAIR CABLE TO ALL LOCATIONS SHOWN ON PLANS.
	COPPER CABLING / CONNECTIVITY APPROVED MANUFACTURERS: a.COMMSCOPE b.PANDUIT/GENERAL CABLE c.L.EV/ITON / BERK-TEK
	B. PROVIDE CABLING RATED FOR THE ENVIRONMENT THAT IT IS INSTALLED IN (I.E UNDERGROUND CONDUIT, CONDUIT IN SLAB ON GRADE). ALL CABLING INSTALLED IN WET LOCATIONS SHALL BE USEED FOR USE IN WET LOCATIONS
LIANCE WITH S WHICH DEVELOP	 C. PROVIDE A MINIMUM OF (2) CABLES, UNLESS OTHERWISE NOTED, TO EACH LOCATION SHOWN ON PLANS. EXPAND EXISTING INFRASTRUCTURE AS REQUIRED TO ACCEPT AND TERMINATE NEW DATA EQUIPMENT.
LINGS TO PREVENT	d.PROVIDE HORIZONTAL CABLING IN THE FOLLOWING COLOR SCHEME: i.DATA, ACCESS CONTROL, INTRUSION, SERVER - BLUE ii.WIRELESS ACCESS POINTS - YELLOW iii CAMERAS - ORANGE
VORKING HOURS AND	iv.INTERCOM - GREEN B.OWNER IT CONTACT:
ETE ASSEMBLY OF	1.ANTHONY MUTO; ANTHONY.MUTO@JORDANDISTRICT.ORG, (801) 567-8318
ES, PRESSURE SS WIRE NUTS, AND	INTERCOM SYSTEM • REFER TO E001 FOR MORE INFORMATION.
MANENTLY INSTALLED	FIRE ALARM AND DETECTIONS SYSTEMS
LVICE, COND CAP,	 PROVIDE UPDATES AND EXPANSION TO THE EXISTING HONEYWELL FCI E3 SUPERVISED FIRE ALARM SYSTEM WITH ALL APPLICABLE PROVISIONS OF THE CURRENT NFPA 72, NATIONAL FIRE ALARM CODE, IFC INTERNATIONAL FIRE CODE AND SHALL MEET ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE A MINIMUM OF #14 AWG COPPER WIRING IN 3/4" CONDUIT. FIRE ALARM MC ALLOWED IF CURRENTLY USED ON-SITE.
COMPONENTS, AND BONDING/GROUNDING	OTHERWISE, MC CABLING NOT ALLOWED. REFER TO E001 FOR MORE INFORMATION
	ACCESS CONTROL SYSTEM PROVIDE UPDATES AND EXPANSION TO THE EXISTING LENEL ACCESS CONTROL SYSTEM. ACCESS CONTROL CONTRACTOR SHALL PROVIDE A COMPLETE, FULLY OPERATIONAL ACCESS CONTROL SYSTEM THAT INTEGRATES WITH THE EXISTING LENEL/S2 ONGUARD ACCESS CONTROL SYSTEM AS OUTLINED IN THE DRAWINGS THIS INCLUDES BUT IS NOT LIMITED TO ACCESS CONTROL DANIELS. MERCUPY CONTROL FOR DANDAS, ENCLOSUBE DANIELS, DOWER SUPPLIES
	CREDENTIAL CARDERS, RACEWAY, JUNCTION BOXES, JACKS, GROUNDING, AND ALL NECESSARY WIRING AND CABLING.
ING (EMT). WHERE	COMPLETE AND A FUNCTIONAL SYSTEM IS PROVIDED.
E COATING FOR RIGID AL EQUIPMENT	OTHERWISE INDICATED, PROVIDE MANUFACTURER'S STANDARD SYSTEM COMPONENTS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE DIV.8 DOOR HARDWARE CONTRACTOR TO REVIEW THE DIV.8 DOOR HARDWARE SPECIFICATION AND ENSURE ALL COMPONENTS REQUIRING A CONNECTION ARE INSTALLED.
EXPANSION JOINTS, AY.	 EQUIPMENT: STANDARD WALL CREDENTIAL CARD READER: HID GLOBAL - SIGNO 40 MULLION STYLE CREDENTIAL CARD READER: HID GLOBAL - SIGNO 20 MOLLION STYLE CREDENTIAL CARD READER: HID GLOBAL - SIGNO 20
	 ACCESS CONTROL COMPOSITE CABLE: WINDY CITY WIRE - #4461030-OSDP (YELLOW) ¾" WIDE GAP RECESSED DOOR POSITION CONTACT: NASCOM, BOSCH, OR GRI
DE COPPER PROVIDE STRANDED	POWER SUPPLIES: LIFESAFETY POWER RECHARGEABLE BACK-LIP BATTERIES: 12V 8AH

EQUIPMENT LISTS ARE PROVIDED TO SET EQUIPMENT EXPECTATIONS AND MAY NOT BE COMPLETE. COORDINATE WITH DEVICES SHOWN ON DRAWINGS, SYSTEM RISERS AND EQUIPMENT LIST FOR SYSTEM INTENT. PROVIDE A COMPLETE AND FUNCTIONAL ACCESS CONTROL SYSTEM.

LIGHT FIXTURE SCHEDULE

SCBA

CFBA

SFBA

LIGHT FIXTURE ABBREVIATION SCHEDULE

STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT CUSTOM FINISH AS SELECTED BY THE ARCHITECT STANDARD FINISH AS SELECTED BY THE ARCHITECT

LIGHT FIXTURE GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND

REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.

CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE. REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.

REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.

PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE...

10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.

CRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI
MPING) 2X4 LUMINAIRES; MAINTAIN OR R SHOWN ON PLANS; REWORK/REWIRE 200K LAMPS), AND REINSTALL IN CEILING W LAYOUT	х	EXISTING	277 V	96 VA	T8 [VERIFY]	7,500	3000 K	80
NDANT MOUNTED LED LUMINAIRE; DIA INATE EXACT SUSPENSION HEIGHT WITH SEN BY ARCHITECT; PROVIDE 3000K LED LAMP vp10-pendant-lamp?currency=USD&variant= 1865b9a492d&gad_source=1	VIN LIGHTING	VIN-CH26310-SCBA	120 V	9 VA	LED (GP LAMP)	800	3000 K	90
LUMINAIRE; LOW PROFILE; MOUNTS IN JUNCTION BOX; PROVIDE JUNCTION 100 HOUR (L70); 5 YR WARRANTY; 0-10 MMING	LIGHTOLIER	S7R-8-30K-10-SCBA-Z10U	120 V	12 VA	LED	1,200	3000 K	90
IGULAR LED VANITY; WHITE ACRYLIC) HOUR (L70); 0-10 DIMMING	OXYGEN	3-555-3024-UNV-SCBA	120 V	26 VA	LED	2,546	3000 K	90
D MAINTAIN DURING CONSTRUCTION.		EXISTING	277 V	2 VA	LED			

PROJECT MANAGER: DRAYTON BAILEY

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PARTIAL OVERALL ELECTRICAL PLAN SCALE = 1/8" = 1'-0"

3

GENERAL SHEET NOTES

LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION.

DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE

- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- DURING DEMOLITION AND NEW CONSTRUCTION. THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL
- DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA. DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS,
- RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.
- WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
- 10. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.
- ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(S) ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY. REFER TO SHEET E401 FOR MORE INFORMATION. SEE NEW SHEET FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICE (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED.
- 12. REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE.
- 13. PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED. PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES.
- 14. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS.
- 15. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED.
- 16. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.

SHEET KEYNOTES

- D1 NO ANTICIPATED CONSTRUCTION IN AREA, UNLESS OTHERWISE NOTED. PROTECT EXISTING ELECTRICAL APPARATUSES AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES AS REQUIRED. RELOCATE, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION. EXISTING 120/208V 3P [SEE PANELBOARD SCHEDULES FOR TYPES] PANELBOARD. REMOVE ANY CIRCUITS E1 NOT UTILIZED FOR NEW CONSTRUCTION BACK TO PANELBOARD. ADJUST EXISTING BREAKERS AS
- NECESSARY WITHIN EXISTING PANELBOARD TO ALLOW FOR SPACE FOR NEW BREAKERS. UTILIZE EXISTING CIRCUIT BREAKERS THAT WERE FREED DURING CONSTRUCTION WHEN NECESSARY/AVAILABLE. PROVIDE NEW UPDATED TYPED INDEX CARD IDENTIFYING NEW AND REMAINING CIRCUITS. BIDDING DIVISION 26,27, AND 28 CONTRACTOR(S) RESPONSIBLE FOR EXPANDING EXISTING SYSTEMS FOR
- E2 THE REMODELED AREAS. PROVIDE A TURN-KEY SOLUTION AND BUILD-OUT FOR ALL IMPACTED SYSTEMS I.E. NETWORK, FIRE ALARM, AND INTERCOM. EXISTING HONEYWELL FCI E3 MAIN FIRE ALARM PANEL. EXTEND EXISTING FIRE ALARM E3
- INITIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES SHOWN AND AS REQUIRED. MATCH SYSTEM WIRING. SEE SHEET E301 FOR NEW REQUIREMENTS.
- E4 CONTRACTOR IS TO PROJECT IN PLACE ALL MECHANICAL, PLUMBING, AND ELECTRICAL ABOVE CEILINGS. ROUTE NEW ELECTRICAL AND LOW VOLTAGE CIRCUIT THROUGH EXISTING CEILINGS AS REQUIRED. FINAL PATHWAY AND ROUTE COORDINATED BY EC. SUPPORT NEW CONDUITS PER SPECIFICATIONS.
- EXISTING NETWORK RACK. REMOVE ANY DEMOLISHED NETWORK CIRCUITS BACK TO SOURCE. WHERE E5 SHOWN ON PLANS, ROUTE NEW DATA CABLES TO THIS TELECOM ROOM. PROVIDE NEW PATCH PANEL AND TERMINATE NEW CABLES AS REQUIRED. SEE E300 SERIES SHEET FOR NEW REQUIREMENTS.
- EXISTING LENEL ACCESS CONTROL SYSTEM. PROVIDE NEW ENCLOSURE, NEW CARD READER, CONTROLLER, E6 AND ACCESS CONTROL CIRCUITS, BATTERIES, ETC. AS REQUIRED FOR NEW CARD READER SHOWN. SEE SHEET E301 FOR NEW CARD READER LOCATION.

BUILDING KEYPLAN

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- DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY, TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
- DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR. CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN
- DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA. CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING,
- RACEWAY, ETC. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
- . WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.
- . ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(S) ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY. REFER TO SHEET E301 FOR MORE INFORMATION.
- 2. REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE. 3. PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-
- USED. PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES. 14. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL
- APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS. 5. KEEP CLASSROOM SYSTEMS TOGETHER. LOUDSPEAKERS, AMPLIFIERS, IR SENSORS, PROJECTORS, AND CABLING ARE TO BE LABELED WITH THE CURRENT CLASSROOM NUMBER THEY ARE REMOVED FROM. BOX EACH LOCATION IN SEPARATE BOXES AND LABEL WITH CLASSROOM NUMBER PRIOR TO RETURNING TO
- 16. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO PROTECTED AND MAINTAINED DURING DEMOLITION, UNLESS OTHERWISE NOTED. 7. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.

SHEET KEYNOTES

- D1 NO ANTICIPATED CONSTRUCTION IN AREA, UNLESS OTHERWISE NOTED. PROTECT EXISTING ELECTRICAL APPARATUSES AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES AS REQUIRED. RELOCATE, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- EXISTING AREAS TO BE DEMOLISHED AND REMODELED PER THE ARCHITECTURAL DRAWINGS. REMOVE ALL D2 EXISTING LIGHT FIXTURES AND ELECTRICAL DEVICES AND APPARATUSES REQUIRED FOR DEMOLITION. REMOVE ALL CONDUIT, BOXES AND WIRE THAT ARE NOT BEING REUSED BACK TO SOURCE. KEEP EXISTING ELECTRICAL DEVICES, WIRE, CIRCUIT INTEGRITY, CONDUIT, ETC THAT ARE TO BE REUSED. RE-LOCATE OR EXTEND BOX TO NEW SURFACE AND RE-INSTALL EXISTING AND/OR NEW DEVICES AS NOTED. SEE ENLARGED PLANS FOR ELECTRICAL DEMO AND NEW ELECTRICAL LAYOUT.
- EXISTING LIGHT FIXTURE THROUGHOUT THE REMODELED SPACE TO REMAIN UNLESS OTHERWISE SHOWN. D3 REMOVE EXISTING LIGHT FIXTURES AS INDICATED. SOME REMOVED LIGHT FIXTURE TO BE RE-INSTALLED IN REWORKED CEILING. CAREFULLY REMOVE EXISTING LIGHT FIXTURES AND TEMPORARILY STORE AND PROTECT DURING CONSTRUCTION. REMOVE EXISTING LIGHTING CONTROLS COMPLETELY. REWORK AND MAINTAIN LIGHTING CIRCUIT INTEGRITY FOR USE WITH EXISTING AND NEW LIGHT FIXTURES IN NEW TEEN CENTER SPACE. BOX AND LABEL APPROPRIATELY, AND RETURN TO OWNER, ANY UNUSED FIXTURES AND CONTROL DEVICES. SEE E200 SERIES SHEETS FOR NEW REQUIREMENTS.
- EXISTING RECEPTACLE AND/OR DATA DEVICE LOCATION TO BE REMOVED. VERIFY EXISTING CIRCUITING D4 CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES NOT SHOWN BUT WIRED TO THE EXISTING CIRCUIT. CIRCUIT # FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. EXISTING RECEPTACLE LOCATION. REMOVE DEVICE, RE-WORK, EXTEND TO NEW SURFACE, AND INSTALL D5 NEW DEVICE AND COVERPLATE.
- EXISTING AUDIO ENHANCEMENT [AE] CLASSROOM SOUND AMPLIFICATION (WALL MOUNTED)+ INTERCOM D7 SPEAKERS+CEILING MICROPHONE TO REMAIN. PROTECT DURING CONSTRUCTION. MOVE EXISTING DEVICES
- AS REQUIRED. SYSTEM WILL BE REQUIRED TO BE EXPANDED. SEE E301 SHEET FOR NEW REQUIREMENTS. D10 REMOVE ALL CLASSROOM AV SYSTEMS COMPLETELY E.G. MEDIALINK CNTRL, PROJECTOR AND SCREENS, IR
- DOME, INPUT PLATES, COAX, ETC. LABEL APPROPRIATELY AND RETURN TO OWNER. D11 EXISTING SOLATUBE SYSTEM TO REMAIN. MAINTAIN AND PROTECT DURING CONSTRUCTION. D12 REMOVE EXISTING OLD INTERCOM SPEAKERS, CALL SWITCH, CABLING, CONDUIT, ETC. COMPLETELY. VERIFY
- SCHOOL NO LONGER UTILIZES THESE SPEAKERS AND RELIES ON AE CSA SYSTEM INSTEAD. D13 EXISTING ALWAYS ON EMERGENCY LIGHTING FIXTURE AND CIRCUIT [PER RECORD DRAWINGS]. FIELD VERIFY AND EXTEND EMERGENCY CIRCUIT INTO NEW TEEN CENTER. CIRCUIT TO BE UTILIZED AT NEWLY IDENTIFIED EM FIXTURES. ROUTE THROUGH ROOM CONTROLLER OR CONTROLS AS INDICATED. SEE E200 SERIES SHEETS FOR NEW REQUIREMENTS.

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GENERAL PRINCIPLES: ALL INDOOR AND OUTDOOR LIGHTING WILL BE CONTROLLED BY A SYSTEM THAT PRIORITIZES ENERGY EFFICIENCY AND LIGHTING WILL PRIMARILY FOLLOW A MASTER CLOCK SCHEDULE PROVIDED BY THE OWNER, WITH MANUAL OVERRIDE THROUGH TOUCH PANELS FOR FINE-TUNING. 0-10V DIMMING WILL BE AVAILABLE ON ALL APPLICABLE LUMINAIRES FOR SMOOTH LIGHT LEVEL ADJUSTMENTS. AFTER PERIODS OF INACTIVITY (15 MINUTES). HUBBELL AND LEVITON LIGHTING CONTROLS ONLY. SPECIFIC AREAS: **RESTROOMS:** PROVIDE WALL MOTION OCCUPANCY SENSOR. PROVIDE 20 MINUTE VACANCY MODE. WIRE EXHUAST FANS THROUGH WALL STATION. OFFICES: • PROVIDE WALL MOTION OCCUPANCY SENSOR. PROVIDE 20 MINUTE VACANCY MODE. REMAINING SPACES: UPON ENTERING THE SPACE, THE OCCUPANT MUST TURN THE LIGHTING ON MANUALLY. OCCUPANTS CAN SET DESIRED LIGHT LEVELS FROM PRE-PROGRAMMED SCENES THROUGH THE WALL STATIONS. LIGHTS TURN OFF AUTOMATICALLY AFTER VACANCY OR A PRESET TIMEOUT PERIOD. EMERGENCY LUMINAIRES OPERATE ON THE SAME CIRCUIT AS NORMAL CLASSROOM LIGHTS. • IN CASE OF A POWER FAILURE, DESIGNATED EMERGENCY LUMINAIRE(S)AUTOMATICALLY SWITCH TO 100% BRIGHTNESS. RC1 WALLSTATION: ALL ON: TURNS ALL LIGHTING RELAY (c) ON, BRINGING THE DIMMING ZONE TO 100% RAISE & LOWER (PRESS AND HOLD): INCREASES OR DECREASES THE BRIGHTNESS OF ALL DIMMING ZONES. ALL OFF: TURNS OFF ALL LIGHTING LOAD (c). RC2 WALLSTATION: ALL ON: TURNS ALL LIGHTING RELAYS ON, BRINGING ALL DIMMING ZONES TO 100%. MAIN: TOGGLES ON/OFF 2X4 LIGHTS (a), BRINGING (d) DIMMING ZONES TO 100%. ISLAND: TOGGLES ON/OFF LAUNDRY LIGHTS (b), BRINGING (e) DIMMING ZONES TO 100%. ALL OFF: TURNS OFF ALL LIGHTING LOADS. COMPLIANCE: THIS NARRATIVE OUTLINES A LIGHTING CONTROL SYSTEM THAT COMPLIES WITH THE LATEST IECC 2021 REQUIREMENTS, EMPHASIZING AUTOMATED CONTROLS, DAYLIGHT HARVESTING, AND ENERGY-EFFICIENT DIMMING BASED ON OCCUPANCY AND AMBIENT LIGHT LEVELS. THIS APPROACH HELPS MINIMIZE ENERGY CONSUMPTION WHILE ENSURING ADEQUATE LIGHTING FOR OCCUPANT SAFETY AND COMFORT EMERGENCY LIGHTING AND IBC/IECC COMPLIANCE IN ADDITION TO THE STANDARD LIGHTING CONTROL SYSTEM, THE PROJECT WILL INCLUDE AN EMERGENCY LIGHTING SYSTEM DESIGNED TO MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). THIS SYSTEM PRIORITIZES OCCUPANT SAFETY AND EGRESS DURING POWER OUTAGES. EMERGENCY LIGHTING FEATURES: DEDICATED CIRCUITS: EMERGENCY LUMINAIRES WILL BE CONNECTED TO SEPARATE, DEDICATED CIRCUITS THAT ARE NOT AFFECTED BY NORMAL POWER OUTAGES. 100% BRIGHTNESS WITHIN THE FACILITY. GENERATOR BACKUP: THE EMERGENCY LIGHTING SYSTEM WILL BE BACKED UP BY A GENERATOR TO ENSURE SUSTAINED OPERATION DURING EXTENDED POWER OUTAGES. EXIT PATH ILLUMINATION: EMERGENCY LIGHTING WILL BE STRATEGICALLY PLACED TO EFFECTIVELY ILLUMINATE ALL DESIGNATED EXIT PATHS AND STAIRWELLS, FACILITATING SAFE EVACUATION. IBC AND IECC REQUIREMENTS, AND WILL BE SUBJECT TO REGULAR INSPECTIONS TO ENSURE PROPER FUNCTIONALITY. ADDITIONAL NOTES: • THE SPECIFIED TIME DELAYS AND LIGHT LEVELS CAN BE ADJUSTED TO SUIT THE SPECIFIC NEEDS OF THE BUILDING AND OWNERS REQUEST. GENERAL NOTES PROGRAM SYSTEM TO MEET THE REQUIREMENTS OF IECC 2021 OR CURRENT ENERGY CODE CONFIRM SWITCHING AND PROGRAMMING SCHEME WITH OWNER PRIOR TO PROGRAMMING. PROGRAM SYSTEM TO INCORPORATE AUTO DAYLIGHT SAVINGS ADJUSTMENTS, ASTRONOMICAL CLOCK WITH OFFSETS, HOLIDAY DATES, AND NETWORK OVERRIDE. REFER TO WALLSTATION DIAGRAMS FOR FACTORY ENGRAVED LABELING FOR ALL INDIVIDUAL PUSH-BUTTONS. DEVICE AND COVERPLATE COLORS SELECTED BY ARCHITECT. SUBMIT ALL WALLSTATION LAYOUTS, ENGRAVING AND CONTROL SEQUENCES DURING THE SHOP DRAWINGS REVIEW PROCESS. PROVIDE RELAY BARRIER FOR VOLTAGE AND POWER SOURCE SEPARATION (EMERGENCY AND NORMAL CIRCUITS, VOLTAGE DIFFERENCES). PROGRAM NORMAL AND EMERGENCY RELAYS IN RELATED CORRIDORS TO OPERATE TOGETHER. ALL RELAYS REQUIRING DIMMING AND/OR DAYLIGHT HARVESTING SHALL UTILIZE 0-10V DIMMING. PROVIDE 0-10V DIMMING WIRING AND CONTROLS AS REQUIRED. PROVIDE A MINIMUM OF (5) SPARE RELAYS. SYSTEM MUST INTERFACE WITH NEW OR EXISTING ENERGY MANAGEMENT SYSTEM/BMS. PROVIDE SYSTEM CONSISTING OF MONITOR(S), COMMUNICATIONS EQUIPMENT, A CONTROLLER(S), TIMER(S), OR OTHER DEVICE(S) THAT MONITOR AND/OR CONTROL AN ELECTRICAL LOAD OR POWER PRODUCTION OR STORAGE SOURCE. COORDINATE EXACT TIE-IN POINTS AND COMMUNICATION PROTOCOL/MODULES REQUIRED. PROGRAM ACCORDINGLY AND PER OWNERS REQUIREMENTS.

TEEN CENTER LIGHTING FLOOR PLAN SCALE = 1/4" = 1'-0"

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LIGHTING CONTROL INTENT NARRATIVE (IECC 2021 COMPLIANT)

MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS. THE LIGHTING REPRESENTATIVE IS REQUIRED TO FURNISH EXHAUSTIVE SHOP DRAWINGS, ELUCIDATING THE LIGHTING CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING.

OCCUPANT COMFORT, MEETING IECC 2021 REQUIREMENTS. EXCLUDES THE EXISTING T8 BASED 2X4 LIGHTING FIXTURES.

 OCCUPANCY SENSORS WILL AUTOMATICALLY DIM LIGHTS TO PRESET LEVELS (50% FOR CORRIDORS, STAIRWELLS, VESTIBULES DAYLIGHT SENSORS WILL FURTHER ADJUST LIGHT LEVELS IN DESIGNATED ZONES BASED ON AVAILABLE NATURAL LIGHT.

THE DRAWINGS SHOW GENERAL ZONING INTENT. THE BIDDING CONTRACTOR ALONG WITH THE LIGHTING CONTROLS MANUFACTURER IS

RESPONSIBLE FOR PROVIDING A SYSTEM WITH THE FEATURES NECESSARY AND MUST BE CAPABLE OF MEETING THE INTENT. THE

 AUTOMATIC ACTIVATION: UPON DETECTION OF A POWER FAILURE, EMERGENCY LIGHTS WILL AUTOMATICALLY SWITCH ON TO COMPLIANCE AND INSPECTION: THE EMERGENCY LIGHTING SYSTEM WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH

OCCUPANTS. AFTER 2 MONTHS OF OCCUPANCY, LIGHTING PROGRAMMER SHALL RETURN TO MAKE ADJUSTMENTS PER THE

LIGHTING GENERAL SHEET NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONTRACTOR TO PAINT EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
- ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
- SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
- PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING. PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS.
- IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
- MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS. THE LIGHTING REPRESENTATIVE IS REQUIRED TO DEVOLOP DETAILED SHOP DRAWINGS DEMONSTRATING THE LIGHTING CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING. LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT ONLY. MANUFACTURERS REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND MODIFY DEVICE LOCATIONS AS REQUIRED TO MEET IECC 2021 REQUIREMENTs
- PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN. 0. PROVIDE GREY COLORED DEVICES AND STAINLESS STEEL COVERPLATES.

LIGHTING SENSOR GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.
- EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
- UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.
- THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
- PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER IECC-2015 C405.2.2.3. LOCATE DAYLIGHT SENSOR(S) PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE
- PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION.

SHEET KEYNOTES

- MOUNT ROOM CONTROLLER(S) ABOVE ENTRY DOOR ALONG WITH ANY OTHER RELATED MODULES. PROVIDE L1 INDICATOR LABELING ON GRID TILE NEAREST THE ROOM CONTROLLER. COORDINATE WITH ARCHITECT FOR STYLE AND METHOD LABELING. SEE CORRESPONDING ROOM CONTROLLER DIAGRAM S003 FOR MORE INFORMATION.
- REWORK AND RE-INSTALL EXISTING AND NEW FIXTURES AND CONTROLS AS SHOWN. WIRE FIXTURES TO IGHTING CIRCUIT PREVIOUSLY FEEDING THIS CLASSROOM/AREA OR NEW CIRCUIT AS SHOWN.
- PROVIDE DUAL TECH. OCCUPANCY SENSOR(S) AS SHOWN. PROGRAM FOR AUTO-ON. LOCATE OCCUPANCY L3 SENSOR(S) PER MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
- PROVIDE LOW VOLTAGE WALLSTATION. REFER TO NARRATIVE FOR WALLSTATION LAYOUT AND L4 CONFIGURATION.
- UTILIZE EXISTING UNSWITCHED EMERGENCY CIRCUIT WITHIN THE AREA AND ROUTE THROUGH UL924 RELAY L5 WITHIN ROOM CONTROLLER FOR AUTOMATIC ON OF EGRESS LIGHTING.
- PROVIDE NEW LIGHT FIXTURES AND CONTROLS AS SHOWN. WIRE NEW LIGHT FIXTURES TO 120V EXHAUST FAN CIRCUIT SHOWN.

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PANEL: 12PC TYPE: Type 1						VOLTS	S:	120/208	Y	PHAS	E:	3			÷4	1. COORD ARE SH ARCHIT	DINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVIC HOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH FECTURAL DRAWINGS, AND CABINETRY DRAWINGS.			
MOUNTING: SURFACE BUSSING:							FE	LOCATION: JAIN. ETTT MAINS: MLO FED FROM:											E LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, SOUND TICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.	
										<u>223 A</u>			-					_ ISO GROUND _ 200% NEUTRAL _ SPD	3. ALL LOV AMPLIF! TO FOL! USING (W VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, CLASSROOM SOUND ICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC. AND AT 5'-0" INTERVALS AU LOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
							В	RANCH	BREAKE	RS							•		4. PROVID BE REA	DE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SI ADILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK,
ITEM	AMPS	TYP	E PO		RECIR		в	c		в	c	CIR.	VIRE SIZE F		TYPE	AMPS		ITEM	CONTR/	ACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
EXISTING CIRCUIT	20 A		1		1	0			0			2		1		20 A	EX		5. ALL REC	CEPTACLES LOCATED THROUGHOUT THE REMODEL SHALL BE TAMPER RESISTANT PER NEC 406.12
*RECEPT - TEEN CENTER	20 A		1	I 12	2 3		1236			0		4		1		20 A	EX	ISTING CIRCUIT	6. ELECTF	RICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH
*RECEPT - TEEN CENTER	20 A		1	l 12	2 5			720			0	6		1		20 A	EX	KISTING CIRCUIT	MECHA	NICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS
*RECEPT - TEEN CENTER	20 A		1	1 12	2 7	720			0			8		1		20 A	ΕX		NOTED	OTHERWISE.
*RECEPT - TEEN CENTER	20 A		1	l 12	2 9		1260			0		10		1		20 A	EX	(ISTING CIRCUIT	7. FIRE AL	ARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE
*RECEPT - TEEN CENTER	20 A		1	l 12	2 11			900			0	12		1		20 A	EX	ISTING CIRCUIT	SPECIFI	FICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE
*RECEPT - TEEN CENTER	20 A	_	1	1 12	2 13	1080			0			14		1		20 A	EX		FIRE AL	LARM CONTRACTORS BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE
EXISTING CIRCUIT	20 A		1		15		0			0		16		1		20 A	EX		IMPLEM	IENTED AS FINAL DESIGN DOCUMENTS.
	20 A		1		17	540		0			0	18		1		20 A	EX			RE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE
	20 A	_	1	12	2 19	540	1056		0	0		20		1		20 A	EX			ION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE AL
	20 A	_					1056	E 40		0	0	22		1		20 A			DEVICE	E(S) ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM
***CLOTHES DRVER	20 A	GE	2	1 12	23	2350		540	0			24		1		20 A	EX		MORE I	INFORMATION. SEE NEW SHEET FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALAF
					23	2330	2350			0		20		1		20 A	EX		DEVICE	E (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTAL
***CLOTHES DRYER	20 A	GE	2	> 10) 29		2000	2350			1500	30	12	1	GF	20 A	***	REFRIGERATOR		ACTOR SHALL COORDINATE EXACT LOCATION AND OLIANTITY OF ALL DUCT TYPE SMOKE DETECTO
					31	2350		2000	1500		1000	32	12	1	GF	20 A	***	REFRIGERATOR	WITH M	ECHANICAL CONTRACTOR. HARDWIRE TO RELAY STARTER.
***WASHING MACHINE	20 A		1	1 12	2 33		800			1500		34	12	1	GF	20 A	*	**MICROWAVE		
***WASHING MACHINE	20 A		1	1 12	2 35			800			1500	36	12	1	GF	20 A	*	**MICROWAVE		ACTOR MUST CONCEAL ALL RACEWAYS THROUGHOUT THE PROJECT. SURFACE MOUNT RACEWAY FEPTABLE EXCEPT WHER APPROVED SOLELY BY THE ARCHITECT PAINT TO MATCH SURROUNDIN
NOT AVAILABLE			1	I	37							38		1			N	IOT AVAILABLE	SURFAC	CE. IF ALLOWED AND REQUIRED, PROVIDE WIREMOLD AL3300 SERIES METAL RACEWAY. PROVIDE
NOT AVAILABLE			1		39							40		1			Ν	IOT AVAILABLE	DATA	OUTLETS WITHIN RACEWAY AND PROVIDER DIVIDER AS REQUIRED.
NOT AVAILABLE			1		41							42		1			Ν	IOT AVAILABLE	11. PROVID	DE NEW DATA DROPS/OUTLETS AS SHOWN. ROUTE NEW DATA CABLES TO EXISTING IDF M26. PROV
									-										NEW PA	ATCH PANEL, LABEL, AND TERMINATE NEW CABLES AS REQUIRED.
FEED THRU LOAD						8540	8202	8310		. (VA)							CONN	ECTED LOAD TOTAL		
0 VA	-					71 A	68 A	69 A	AMPS/	PHASE								25052 VA	↓ ┌────	
											AIC	RATIN	G _				A	MPS RMS SYSM.		SHEET KEYNOTES
oad Classification				Co	onnecte	d Load		Demand F	actor	Est	mated D	emand				P	Panel Totals		• P1 F	EXISTING RECEPTACLE LOCATED WITHIN LOWER MILLWORK CABINET. REWORK AND BRING EXISTING
HVAC					1392 VA			100.00	%		1392 VA								1 F	RECEPTACLE TO NEW SURFACE.
RECEPT 6660					6660	VA		100.00	00% 6660 VA			Ą	Total Conn. Load: 25052 VA							
WASHING MACHINE					1600 VA			125.00	%		2000 VA			Total Est. Demand: 25452 VA					1 '	MOUNT IN MILLWORK AS REQUIRED. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ARCHITECT
MICROWAVE 3000 VA					100.00	%		3000 V	Ą			Total C	Conn. Curr	rent: 70 A		1 ^E	ELEVATIONS FOR EXACT LOCATION AND HEIGHT PRIOR TO ROUGH-IN.			
REFRIGERATOR 3000 VA					100.00	100.00% 3000 VA					Total E	st. Der	nand Curr	rent: 71 A		P3 /	LOCATE DEVICE IN MILLWORK SPACE DEDICATED FOR FOR MICROWAVE DUPLEX RECEPTACLE. PROVI			
DRYER 9400 VA					100.00	100.00% 9400 VA											DUPLEX RECEPTACLE WITH MILLWORK AS REQUIRED. COORDINATE WITH MILLWORK SHOP DRAWINGS ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND HEIGHT PRIOR TO ROUGH-IN.			
IOTES:								lcı	RCUIT B	REAKEF	TYPE:								P5 \	WIRE EXHAUST FAN WITH LIGHTS AND WALL MOUNTED OCCUPANCY SWITCH. PROGRAM LIGHTS/FAN T
EXISTING SQUARE D PANELBOARD TYPE NQOB <blank< td=""><td>(> TH</td><td colspan="9">THERMAL MAGNETIC CIRCUIT BREAKER</td><td>OPERATE WITH 20 MINUTES DELAY AFTER NO OCCUPANCY.</td></blank<>						(> TH	THERMAL MAGNETIC CIRCUIT BREAKER									OPERATE WITH 20 MINUTES DELAY AFTER NO OCCUPANCY.				
^t UTILIZE EXISTING 20A/1P SPARE ^{t*} REWORK EXIST. CIRCUIT & RE-USE BREAKER ^{t**} PROVIDE NEW BREAKER AS INDICATED					GF5 mA GROUND FAULT CIRCUIT BREAKERAFARC-FAULT CIRCUIT BREAKERCOCOMBINATION AFCI/GFCI CIRCUIT BREAKEREG30 mA EQUIPMENT GROUND FAULT CIRCUSTSHUNT TRIP CIRCUIT BREAKER							er Eaker RCUIT BF	REAKER		T2 F	PROVIDE FSR METAL PRODUCTS – PWB-3204 OR EQUAL DISPLAY BOX. BELOW THE DISPLAY AND WIT THE MILLWORK CABINET. PROVIDE 4 11/16†SQUARE JUNCTION BOX WITH EXTENSION SINGLE GANG MUDRING AND EXTRON WPD 110A PASS-THROUGH WALLPLATE. PROVIDE (1) 1-1/4†CONDUIT BETWEE AND DISPLAY BOX. PROVIDE EXTRON HDMI ULTRA/9 CABLE AND TERMINATE AT WALLPLATE AND DISPL VERIFY DISPLAY BOX AND DISPLAY HEIGHT WITH OWNER PRIOR TO ROUGH-IN.				
																			Y1 F	PROVIDE NEW HORN/STROBE AS SHOWN. TIE ONTO EXISTING FIRE ALARM LOOP.
																			V2 F	

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BUILDING KEY	PLAN

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FOR ADDITIONAL REQUIREMENTS.

MOUNTED ABOVE CEILING

PROVIDE NEW HID CREDENTIAL CARD READER INSTALL & PROGRAM THE HID CREDENTIAL CARD READER TO

THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS, TO INDUSTRY STANDARDS, AND TO THE

OWNERS REQUIREMENTS. PROVIDE NEW DOOR SECURITY ACCESS CONTROL (POWER SUPPLY) CABINET

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