

PROJECT TEAM

architect Breanna Bonsavage VCBO ARCHITECTURE 524 South 600 East Salt Lake City, UT 84102 bbonsavage@vcbo.com

801.575.8800

electrical engineer Scott Kingery ENVISION ENGINEERING 240 EAST MORRIS AVE SUITE 200 SALT LAKE CITY, UT 84115 skingery@envisioneng.com 801.534.1130

240 E. Morris Avenue, Suite 203 Salt Lake City, UT 84115 george.stromquist@allegion.com 801-389-7905

GENERAL NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.

owner

Stephen Canfield

Provo, UT 84604

801-616-1632

280 West 940 North

stephenc@provo.edu

George Stromquist

ALLEGION

PROVO CITY SCHOOL DISTRICT

door hardware consultant

2. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.

- 3. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
- 4. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN; DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.

SYMBOL LEGEND

RM NAME FRAME MATERIAL ------H.M FRAME TYPE DOOR TYPE DOOR NUMBER A100A NOTE (x)

DOOR SYMBOL

AX.XX

DETAIL REFERENCE MARK. SEE DETAILS

NOTES TO BIDDERS

- 1. THIS SHEET CONTAINS A LIST OF DRAWINGS WHICH COMPRISE A FULL SET OF DRAWINGS FOR THIS PROJECT. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS. IF ANY PERSON, PARTY OR ENTITY ELECTS TO SUBMIT BIDS FOR ANY PORTION, OR ALL, OF THIS PROJECT, THAT PERSON, PARTY OR ENTITY SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDUMS OR CLARIFICATIONS THAT MAY BE ISSUED.
- 2. THESE DOCUMENTS SHOW THE DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE EVERYTHING SHOWN ON THE DRAWINGS OR SPECIFICATIONS, REGARDLESS OF WHERE IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS. FOR EXAMPLE; SOME MILLWORK DETAILS HAVE STEEL FRAMES WHICH MAY BE PROVIDED BY DIVISION 05 OR WITH THE MILLWORK AT THE CONTRACTOR'S DISCRETION, BUT IT SHALL BE PROVIDED AS PART OF THE CONTRACT.

WASATCH ELEMENTARY SECURITY UPGRADE

DESIGN DATA

ROOM NAME & NUMBER SYMBOL

GOVERNING BUILDING CODES: IBC 2015 TO INCLUDE APPENDIX J, ANSI 117.1 2009, IMC 2015, IPC 2015, IECC 2015, NEC 2014, IFGC 2015, NFPA 101 LIFE SAFETY 2015 TENANT IMPROVEMENT TO EXISTING BUILDING, NO STRUCTURAL CHANGES ARE BEING MADE. AUTOMATIC SPRINKLER SYSTEM, 903.2.3 - YES OCCUPANCY TYPE - (CH.3) @EDUCATION • E

EXITING REQUIREMENTS UNCHANGED FROM ORIGINAL BUILDING.

ABBREVIATIONS

C.I. DEPT DIA. D.F. DN DISP. DIM. DT./DTL./DET. DWG./DRWNG. DRN. EA. ELEV./EL. EXIST./(E) ELECT. EQUIP.	DRAWING DRAIN EACH ELEVATION	F.A. FIN. F.H. F.V. G.W.B. GYP. GA. GALV. G.I. H.M. H.C. H.P. HT. HORIZ. H.W. INSUL. I.D. K.O. KW LBS MECH. MEZZ MFR/MNFR MGR M.T. MIN. MC. MGR M.T. MIN. MAX. MIN. MAX. MIN. MAX. MIN. MAX. MIN. MAX. MIN. MAX. MIN. MAC. MISC. N. NO. N.I.C. NOM. P.I. P.I. P.I. P.I. P.I. P.I. P.I. P.
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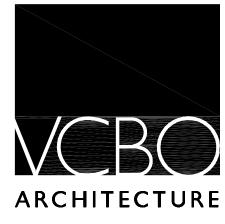
FIRE ALARM FINISHED FIRE HYDRANT FIELD VERIFY GYPSUM WALLBOARD GYPSUM GAUGE GALVANIZED GALVANIZED IRON HOLLOW METAL HANDICAP HIGH POINT HEIGHT HORIZONTAL HARDWOOD INSULATION INSIDE DIAMETER KNOCK OUT KILOWATTS POUNDS MECHANICAL MEZZANINE MANUFACTURER MANAGER MEN'S TOILET METAL MAXIMUM MINIMUM MASONRY OPENING MANHOLE MACHINERY MOTOR CONTROL CENTER MISCELLANEOUS NORTH NUMBER NOT IN CONTRACT NOMINAL NOT TO SCALE OPENING ON CENTER OVERHEAD OUTSIDE DIAMETER PERIMETER PLATE PENTHOUSE PARTITION PLYWOOD POINT OF CONNECTION PORTLAND CEMENT PANEL PERIMETER FELT JOINT QUARRY TILE **ROOF DRAIN**

R.O.	
RM.	
REINF.	
REC.	
R.W.	
S.	
S.B.U.	
SF	
STOR.	
SIM.	
SUSP.	
SYS.	
SPECS.	
STRG.	
STRUCT.	
ST.	
SCH.	
S.S.	
S.W.	
SERV.	
TYP.	
TRANS.	
T&B	
T.O.	
T.	
U.O.N./U.N.O	•
UR.	
VAR.	
VEST.	
VERT.	
W.C.	
W.H.	
W.T.	
WD.	
WSCT.	
W/	
W.W.F.	
VV.VV.F.	

REINFORCED RECESSED RETAINING WALL SCUPPER STRUCTURAL BRICK UNIT SQUARE FOOT STORAGE SIMILAR SUSPENDED SYSTEM SPECIFICATIONS STORAGE STRUCTURAL STEEL SCHEDULE STAINLESS STEEL SOFT WOOD SERVICE TYPICAL TRANSFORMER TOP AND BOTTOM TOP OF TOILET UNLESS OTHERWISE NOTED URINAL VARIES VESTIBULE VERTICAL WATER CLOSET WATER HEATER WOMEN'S TOILET WOOD WAINSCOT WITH WELDED WIRE FABRIC

ROUGH OPENING

ROOM



PROVO SCHOOL DISTRICT 1080 NORTH 900 EAST PROVO, UTAH

DRAWING INDEX

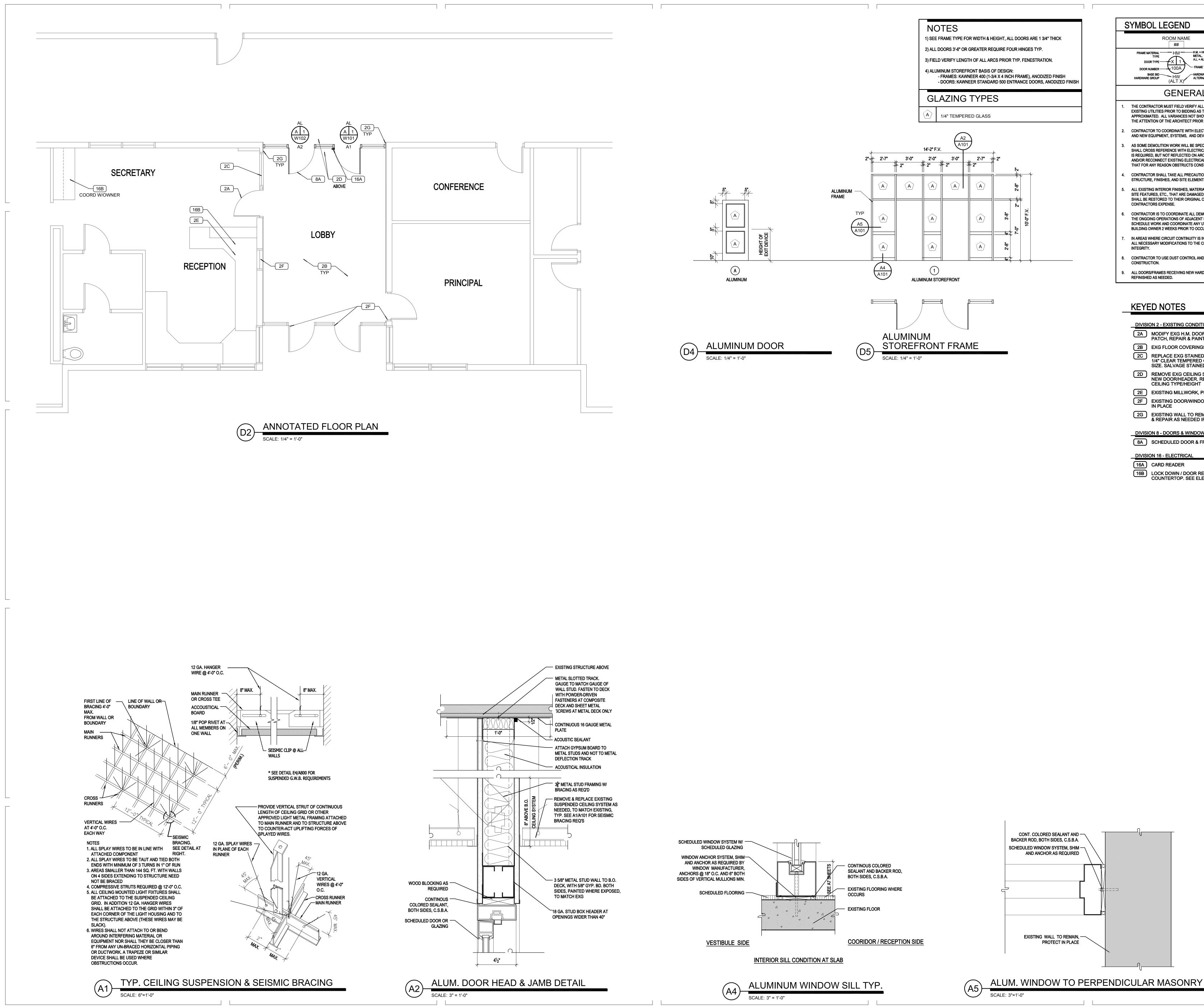
GENERAL	_ARCHITECTURAL (CONT.)
G101 GENERAL INFORMATION	A201 DOOR HARDWARE
ARCHITECTURAL	ELECTRICAL
A101 FLOOR PLAN & DETAILS	EG101 SYMBOLS, SCHEDULES & NOTES EY101 LOBBY - SYSTEMS PLAN

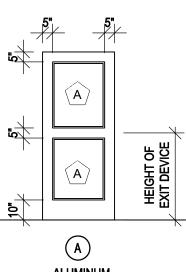
VICINITY MAP

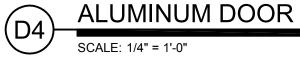


CONSTRUCTION DOCUMENTS 2018-08-13

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102 801.575.8800 | VCBO.COM





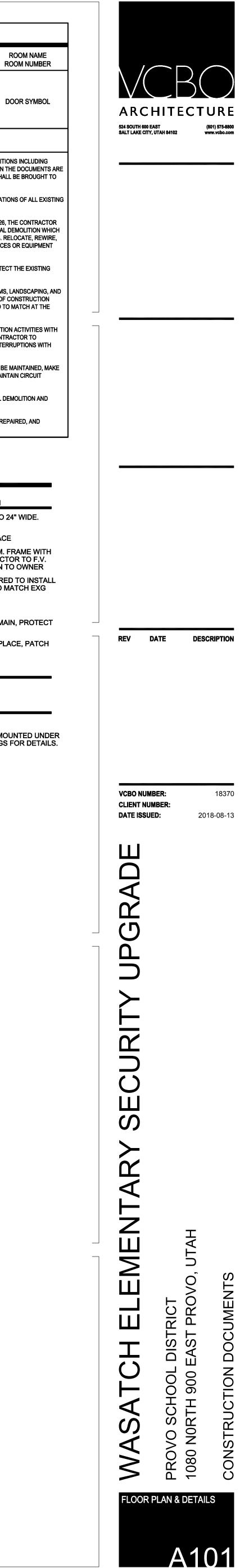


SYMBOL LEGEND ROOM NAME FRAME MATERIAL TYPE DOOR TYPE DOOR TYPE BASE BID HM H.M. = HOLLOW METAL, AL. = ALUMINUM FRAME TYPE HARDWARE HARDWARE GROUP HARDWARE ALTERNATE **GENERAL NOTES** THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID. CONTRACTOR TO COORDINATE WITH ELECTRICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS. RELOCATE, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL AND MECHANICAL DEVICES OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE. CONTRACTOR IS TO COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE ONGOING OPERATIONS OF ADJACENT BUILDING TENANTS. CONTRACTOR TO SCHEDULE WORK AND COORDINATE ANY UTILITY SHUT OFFS OR INTERRUPTIONS WITH BUILDING OWNER 2 WEEKS PRIOR TO OCCURRENCE. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED, MAKE ALL NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN CIRCUIT CONTRACTOR TO USE DUST CONTROL AND SOUND CONTROL IN ALL DEMOLITION AND ALL DOORS/FRAMES RECEIVING NEW HARDWARE TO BE PATCHED, REPAIRED, AND REFINISHED AS NEEDED.

KEYED NOTES

_DIVISI	ON 2 - EXISTING CONDITIONS / DEMOLITION
2A	MODIFY EXG H.M. DOOR TO WIDEN LITE TO 24" PATCH, REPAIR & PAINT AS REQUIRED
2B	EXG FLOOR COVERINGS, PROTECT IN PLACE
2C	REPLACE EXG STAINED GLASS IN EXG H.M. FR/ 1/4" CLEAR TEMPERED GLAZING. CONTRACTOF SIZE. SALVAGE STAINED GLASS & RETURN TO
2D	REMOVE EXG CEILING SYSTEM AS REQUIRED T NEW DOOR/HEADER. REPAIR/REPLACE TO MAT CEILING TYPE/HEIGHT
2E	EXISTING MILLWORK, PROTECT IN PLACE
2F	EXISTING DOOR/WINDOW SYSTEM TO REMAIN, IN PLACE
2G	EXISTING WALL TO REMAIN, PROTECT IN PLAC & REPAIR AS NEEDED IF DAMAGED
_DIVISI	ON 8 - DOORS & WINDOWS
8 A	SCHEDULED DOOR & FRAME

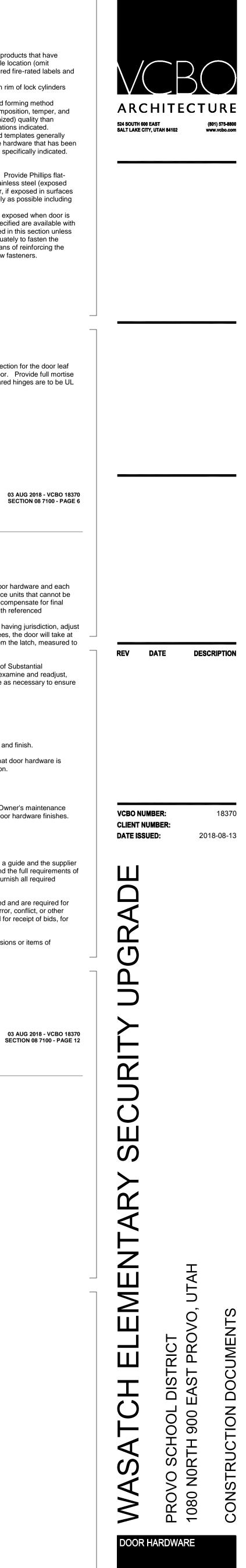
DIVISI	UN 10 - ELECTRICAL
16A	CARD READER
16B	LOCK DOWN / DOOR RELEASEBUTTONS. MOU COUNTERTOP. SEE ELECTRICAL DRAWINGS



	SECTION 08 7100	1.4 SU A.		truction and installation details, material d
PART	DOOR HARDWARE	B.	Shop Drawings: Details of 1. Wiring Diagrams: Po	ponents and profiles, and finishes. electrified door hardware, indicating the fo ower, signal, and control wiring. Include th
1.1	RELATED DOCUMENTS		a. System sche b. Point-to-poir c. Riser diagra d. Elevation of	nt wiring diagram. m.
	 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section. 		2. Detail interface betw security, building cor	een electrified door hardware and fire alar
1.2	SUMMARY A. This Section includes the following:	C.	Samples for Verification: F full size. Tag with full descript	For exposed door hardware of each type, i otion for coordination with the door hardwa
	 Commercial door hardware for the following: Swinging doors. Cylinders for doors specified in other Sections. Electrified door hardware. 		requested. 1. Samples will be retu	nt with, submission of the final door hardw rned to Contractor. Units that are accepta submittal, review, and field comparison pi
	 B. Related Sections include the following: 1. Section 08 4100 "Aluminum-Framed Entrances and Storefronts" 2. Division 26 Sections for connections to electrical power system and for low- 	D.	keying requirements	
	 voltage wiring work. 3. Division 28 Section "Access Control" for access control devices installed at door openings and provided as part of a security access system. 	E.	Product Test Reports: Bas	ed on evaluation of comprehensive tests by a qualified testing agency, for locks, la
	 Division 28 Section "Intrusion Detection" for detection devices installed at door openings and provided as part of an intrusion detection system. Products furnished, but not installed, under this Section include the following. 	F.		th type of door hardware to include in mair eying schedule.
-	 Coordinating, purchasing, delivering, and scheduling remain requirements of this Section. 1. Thresholds, weather stripping, and cylinders for locks specified in other Sections. 	G. H.	Door Hardware Sets: Prepa	ared by or under the supervision of Archite
_ 1.3	 REFERENCED STANDARDS A. Provide hardware in accordance with the following standards in addition to those specified in Division 01 Section "References". 		and diagrams. Coordinate the work to ensure proper size, t	ion and assembly of door hardware, as we ne final door hardware sets with doors, fra hickness, hand, function, and finish of doo scheduling sequence and format and use
	 American National Standards Institute (ANSI), A117.1: Accessible and Usable Buildings and Facilities, edition as adopted by local Authority Having Jurisdiction (AHJ). Builders Hardware Manufacturer's Association (BHMA) 			e following information: n number, location, hand, fire rating, and m
	 a. ANSI/BHMA A156.3: Exit Devices, 2008 edition b. ANSI/BHMA A156.4: Door Controls - Closers, 2008 edition c. ANSI/BHMA A156.18: Materials and Finishes, 2006 edition 3. Door and Hardware Institute (DHI) 		item. c. Complete de	function, size, quantity, and finish of each esignations of every item required for each me and manufacturer.
	 a. Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames, 2004 edition b. Installation Guide for Doors and Hardware, 1994 edition 		d. Fastenings a e. Location of e on floor plan	and other pertinent information. each door hardware set, cross-referenced is and in door and frame schedule. of abbreviations, symbols, and codes con
	 c. Keying Systems and Nomenclature, 2003 edition d. Sequence and Format for the Hardware Schedule, 2001 edition 4. National Fire Protection Association (NFPA) a. NFPA 70: National Electrical Code, edition as adopted by local AHJ. 			or abbieviations, symbols, and codes con
	ASATCH ES SECURITY UPGRADE 03 AUG 2018 - VCBO 18370 HARDWARE SECTION 08 7100 - PAGE 1	PSD WASAT DOOR HARE	CH ES SECURITY UPGRADE WARE	03 A SEC
	 B. Requirements: 1. Provide electric strikes that are continuous duty rated without the use of external 			ovide Pullman-type deadlocking latch bolt el. Where specified provide high security
	 rectifiers. Provide electric strikes with function (fail safe, fail secure) and power requirements as scheduled. 		latchbolt that return spring return spring	collapses to be square faced under high s shall be compression type. Tension and s are not acceptable.
_ 2.6	 Where scheduled, provide electric strikes with monitor switches. CYLINDERS AND CORES 		specifically s key activated d. Plastic or nyl	chanism: where dogging or latch-retraction cheduled for non-fire rated doors, provide I hook-type dogging mechanism construct on used for the push pad, or parts in the d
-	 A. Acceptable Products: 1. Schlage: Match Existing Keyway 		e. Sound Damp dampening n f. Provide devic	or latchbolt mechanism are unacceptable. bening: Device shall be provided with facto naterials. ce type, function, and trim style as indicate
	 B. Requirements: 1. Full Size Interchangeable Cylinders: Provide cylinders of quantity and type and with the appropriate cam/tailpiece to be compatible with the locking hardware provided. Provide cylinder housings ready to accept 6-pin, Full-Size 		label indicating "Fire provide sex nuts and	
	Interchangeable Cores (FSIC), where scheduled. a. Temporary Construction Keying: Provide each cylinder housing and/or lock lever with keyed construction core during the construction period. Cores will remain property of the contractor and will be returned upon		opening. 5. Unless otherwise ind 6. Where scheduled, pr	er plates, and other accessories as require icated in the sets, provide device with rolle ovide removable mullions by same manufi
	installation of owner's permanent key system. b. Permanent Cores: Provide factory keyed cores that are utility patented until at least 2029. Provide cores with a geographically exclusive factory-restricted keyway. Ship cores directly to owner's representative.		provided exit devices preps, and fire rating	 Provide mullion stabilizers, key removat as indicated in sets.
	At substantial completion, accompany the owner's representative while replacing temporary construction cores with the owner's permanent key system. 2. Keys: Provide cylinder manufacturer's standard keys. Keys shall be shipped	2.8 ME A.		have separate valves for latch speed, ma
	separate from cores directly to owner's representative. For estimating purposes, provide keys in the following quantities: a. Construction Control Keys: 2 each b. Construction Change Keys: 12 each		back check. Valves s 2. Provide the appropria inside the building on	hall be staked to prevent accidental remov ate closer body, handing, and brackets to the least-public side of the door. rs are to be mounted parallel arm, provide
	c. Permanent Control Keys: 2 each d. Split Key Voiding Keys: 2 each e. Permanent Master Keys: 2 each f. Permanent Change Keys: 4 per core		fully forged a b. Where close otherwise be	
2.7	EXIT DEVICES		template is n integrated sto 3. Integrated Stop Close	ot available for 180 degree swing, provide
	 A. Acceptable Products: 1. Von Duprin: 98 Series 2. Match existing facility Owner's standard. 		a. Parallel arm otherwise ab closer.	with spring-cushioned stop arm: Provide w le to open to 95 degrees and requires a pa
	 B. Requirements: 1. ANSI Grade: BHMA/ANSI A156.3, Grade 1. 2. Device Construction: a. Exit device(s) shall have a mechanism case constructed of extruded 		opening to 9 c. Regular arm where door c	with dead stop arm: Provide where door is 5 degrees and requires a parallel arm mou with push side surface-mounted overhead closer should mount on pull side of door.
-	aluminum or wrought stainless steel, base plates constructed of cold rolled or cast steel, push pad of extruded aluminum with stainless steel covering or wrought stainless steel, and end caps with flush mounted,		5. Provide closers with required for interface	ovide closer arms with mechanical hold-op any special templates, brackets, plates, or with header, door, wall, and other hardwa acks containing thru-bolts, machine screws
	sloped design. At full-glass doors, provide exit devices with no exposed fasteners or rivets visible through glass. Where required by stile width, provide narrow-stile type device.		screws.	
	NASATCH ES SECURITY UPGRADE03 AUG 2018 - VCBO 18370R HARDWARESECTION 08 7100 - PAGE 7	PSD WASAT DOOR HARD	CH ES SECURITY UPGRADE WARE	03 AL SECT
DOOF	ET NO: A1 R NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)			
1 E/	I TO HAVE: A CONT. HINGE 112HD 628 IVE			
1 E/ 1 E/ 1 E/	APANIC HARDWARELD-98-NL-OP-110MD626VONAPROVIDED BY OWNERPERMANENT CYL COREB/OARIM HOUSING20-079626SCHAELECTRIC STRIKE6300 FSE# 630VON			
1 E/ 1 E/ 1 E/	AOH STOP & HOLDER100H ADJ630GLYASURFACE CLOSER4040XP EDAW/62G MC689LCNAPA MOUNTING PLATE4040-18PA689LCNA5TH SCREW SUPPORT4040XP-30689LCN			
1 E/ 1 E/	TPERIMETER SEALSDOOR MFG STDB/OACREDENTIAL READERBY DIVISION 28MB/OADOOR CONTACT679-05HMMBLKSCEAREMOTE SWITCHBY DIV 28MB/O			
DOOF) IN. USER PRESENTS CREDENTIAL, ELECTRIC STRIKE KEEPER RELEASES, USER OPENS R TO ENTER. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL SYSTEM. TRIC STRIKE MAY BE REMOTELY RELEASED FROM RECEPTION.			
-	ET NO: A2			
W102 EACH	I TO HAVE:			
1 E/ 1 E/	A CONT. HINGE 112HD 628 IVE A PANIC HARDWARE LD-98-EO 626 VON A 90 DEG OFFSET PULL 8190HD 10" 630 IVE A OH STOP & HOLDER 100H ADJ 630 GLY			
1 E/ 1 E/ 1 SE ⁻	ASURFACE CLOSER4040XP EDAW/62G MC689LCNAPA MOUNTING PLATE4040-18PA689LCNA5TH SCREW SUPPORT4040XP-30689LCNTPERIMETER SEALSDOOR MFG STDB/O			
1 E/	A DOOR CONTACT 679-05HM B BLK SCE			
	END OF SECTION			
	ASATCH ES SECURITY UPGRADE 03 AUG 2018 - VCBO 18370 HARDWARE SECTION 08 7100 - PAGE 13			
JUCK	SECTION 00 / 100 - PAGE 13			

]		[
al descriptions, e following: de the following: alarm, access control, rolled by electrified pe, in specified finish, rdware sets. Submit ardware sets, if eptable and remain on process may, after hin limitations of sts performed by s, latches, and closers maintenance manuals. chitectural Hardware s well as procedures , frames, and related door hardware. use same door and material of each ach door or opening ced to Drawings, both contained in schedule.	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>	 E. Keying Conference: Conduct conference at Project site to comply with a Division 01 Section "Project Management and Coordination." In addition Construction Manager, Contractor, and Architect, conference participants include Installer's Architectural Hardware Consultant and Owner's Securit Incorporate keying system including, but not limited to, the following: 1. Function of building, flow of traffic, purpose of each area, degree required, and plans for future expansion. 2. Preliminary key system schematic diagram. 3. Requirements for key control system. 3. Requirements for keys. F. Pre-installation Conference: Conduct conference at Project site to com requirements in Division 01 Section "Project Management and Coordination delivered to Project site. B. Tag each item or package separately with identification related to the fin hardware sets, and include basic installation instructions, templates, and fasteners with each item or package. C. Deliver keys to Owner's Representative by registered mail or overnight performing inserts into Construct. Concrete, reinforcement, and formwork r are specified in Division 03. B. Templates: Distribute door hardware templates for doors, frames, and on specified to be factory prepared for installing door hardware. Check Shog other work to confirm that adequate provision sare made for locating and hardware to comply with indicated requirements. C. Coordinate with aluminum entrance door supplier for door hardware instruction specified to be secure y system, security system, and building control system. J. Electrical System Roughing-in: Coordinate layout and installation of elevation and specified to use and the or hardware templates for doors, frames, and of hardware to the onder that adequate provision sare made for locating and hardware to comply with indicated requirements. C. Coordinate with aluminum entrance door supplier for door hardware. The shardware acceuses cont
03 AUG 2018 - VCBO 18370 SECTION 08 7100 - PAGE 2	PSD WASATCH ES SECURITY UPGRADE03 AUG 2018 - VCBO 18370DOOR HARDWARE03 F100 - PAGE 3	PSD WASATCH ES SECURITY UPGRADE 03 AUG DOOR HARDWARE SECTIO
bolts constructed of rity Pullman-type igh pull forces. Latch and Torsion latch ction options are not vide device with a hex- ructed of steel. he dogging ble. actory-installed sound cated in hardware le with fire listing and on wood doors, quired for each roller-type strike. anufacturer as boable option, strike main speed, and moval. to mount closer vide with heavy duty, the opening can er with the appropriate Where a special vide closer arm with ed stop is required, de where door is a parallel arm mount or is obstructed from mount closer. head stop: Provide or. d-opens as scheduled. s, or other accessories dware. Provide rews, and wood	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>	 C. The designations used in schedules and elsewhere to indicate hardwitting the traditional U.S. finishes shown by certain manufacturers for their prod D. The designations used in schedules and elsewhere to indicate hardwitting the traditional U.S. finishes shown by certain manufacturers for their prod D. Brushed Chrome and/or Stainless Steel Appearance B. Brushed Stainless Steel Appearance B. Saddle and Panic Thresholds: MII Atuminum finish. B. Weatherstrip and Gasket: Clear Anodized Aluminum finish. Weatherstrip and Gasket: Clear Anodized Aluminum finish. Weatherstrip and Gasket: Clear Anodized Aluminum finish. C. Proceed with installation only after unsatisfactory conditions after the construction, and other conditions affecting performance. E. Examine roughing-in for electrical power systems to verify actual locatic connections before electrified door hardware installation. Preceed with installation only after unsatisfactory conditions farmes ANSI AZSO. Wood Doors: Comply with DHI A115 Veries. MISTALLATION A. Steel Doors and Frames: Analy Azsoc. Wood Doors: Comply with DHI A115 Veries. MISTALLATION A. Pre-installation conference shall be conducted prior to installation of har Project site. Meet with the Qumer, Contractor, installer, and manufacture representatives. A separate pre-installation conference shall be conducted prior to installation of hardware. Steeley and state statent or ious a security bardware with the electrical contractor

oly with requirements in addition to Owner, ticipants shall also s Security Consultant. le after reviewing door g: degree of security	 Warranty Period: Three (3) years from date of Substantial Completion, except as follows: a. Continuous Hinges: Lifetime of Building b. Exit Devices: Three (3) years from date of Substantial Completion. c. Manual Closers: Thirty (30) years from date of Substantial Completion. d. Electrified Hardware Items: One (1) year from date of Substantial Completion. 	2.3 MATERIALS AND FABRICATION A. General 1. Manufacturer's Name Plate: Do not use manufacturers' proc manufacturer's name or trade name displayed in a visible lo removable nameplates) except in conjunction with required as otherwise acceptable to Architect.
e to comply with pordination."	 1.9 MAINTENANCE SERVICE A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware. 	 a. Manufacturer's identification will be permitted on rimonly. 2. Base Metals: Produce hardware units of basic metal and for indicated using manufacturer's standard metal alloy, componing hardness, but in no case of lesser (commercially recognized specified for applicable hardware units for finish designation 3. Provide hardware manufactured to conform to published tem
o for door hardware	B. Maintenance Service : Beginning at Substantial Completion, provide six (6) months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door hardware operation.	prepared for machine screw installation. Do not provide har prepared for self-tapping sheet metal screws, except as spe B. Fasteners 1. Furnish screws for installation with each hardware item. Pro-
to the final door es, and necessary	Provide parts and supplies same as those used in the manufacture and installation of original products.	head screws except as otherwise indicated. Furnish stainle under any condition) screws to match hardware finish or, if e of other work, to match finish of this other work as closely as
ernight package service.	PART 2 - PRODUCTS	 "prepared for paint" surfaces to receive painted finish. Provide concealed fasteners for hardware units that are exp closed except to the extent no standard units of type specific concealed fasteners. Use through bolts only as indicated in
	 2.1 MANUFACTURERS A. Manufacturers: Subject to compliance with requirements of Contract Documents, provide products by one of the following: 	their use is the only means of reinforcing the work adequate hardware securely. Where thru-bolts are used as a means work, provide sleeves for each thru-bolt or use sex screw fa
loor construction. Cast mwork requirements	1. Continuous Hinges: Ives, Stanley, Hager, Select, McKinney, Pemko 2. Operating Door Trim: Ives, Rockwood, Hager, Trimco 3. Cylinders and Cores: Schlage, Match Existing Keyway Owner's Standard 4. Electric Strikes: Von Duprin, Owner's Standard	2.4 CONTINUOUS HINGES A. Acceptable Products:
s, and other work eck Shop Drawings of ting and installing door	 Exit Devices: Exit Devices: Von Duprin, Owner's Standard Mechanical Door Closers: LCN, Owner's Standard Overhead Stops and Glynn Johnson, Rixson, ABH Holders: 	1. Ives: 112HD 2. Stanley: 661HD 3. Hager: 780-112HD 4. Select: SL11HD
vare installation. ion of electrified door and detection devices,	B. Substitutions submitted in compliance with Division 01 Section "Substitutions" requirements will be reviewed for conformance to basis of design.	5. McKinney: MCK-12HD 6. Pemko: FMSLFHD B. Requirements : 1. Geared Continuous Hinges: Shall utilize a single gear section
em.	 2.2 SCHEDULED HARDWARE A. Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in the "Hardware Schedule" at the 	and a separate gear section for the frame side of the door. or surface applied hinge as scheduled in each set. Geared 10C tested and approved for 90 minutes.
facturer agrees to repair vorkmanship within	 end of this Section. Products are identified by using hardware designation numbers of the following: 1. Manufacturer's Product Designations: The product designation and name of one manufacturer are listed for each hardware type required for the purpose of 	2.5 ELECTRIC STRIKES A. Acceptable Products:
cracking, or breakage. materials beyond	establishing minimum requirements. Provide either the product designated or, where more than one manufacturer is specified under the Article "Manufacturers" in Part 2 for each hardware type, the comparable product of one of the other manufacturers that complies with requirements.	 Von Duprin: 6300 Series Match existing facility standard
03 AUG 2018 - VCBO 18370 SECTION 08 7100 - PAGE 4	PSD WASATCH ES SECURITY UPGRADE 03 AUG 2018 - VCBO 18370 DOOR HARDWARE SECTION 08 7100 - PAGE 5	PSD WASATCH ES SECURITY UPGRADE 03 DOOR HARDWARE SI
e hardware finishes are cluding coordination with heir products.	D. Install head seal prior to installation of "PA"-parallel arm mounted door closers and push side mounted door stops/holders. Trim, cut and notch thresholds and saddles neatly to minimally fit the profile of the door frame. Install thresholds and saddles in a bed of caulking completely sealing the underside from water and air penetration.	 3.5 ADJUSTING A. Initial Adjustment: Adjust and check each operating item of door h door to ensure proper operation or function of every unit. Replace u doi to ensure proper operation of divit door exercise door to ensure proper operation.
e hardware finishes are otherwise noted. 52.	 E. Counter sink through bolt of door pull under push plate during installation. F. Mounting Heights: Mount door hardware units at heights indicated, as follows, unless otherwise indicated or required to comply with governing regulations. 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames." 	 adjusted to operate as intended. Adjust door control devices to comoperation of heating and ventilating equipment and to comply with reaccessibility requirements. 1. Door Closers: Unless otherwise required by authorities hav sweep period so that, from an open position of 70 degrees, least 3 seconds to move to a point 3 inches (75 mm) from the loading odge of the door.
sh. num finish.	 Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames." Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors." 	the leading edge of the door.B.Occupancy Adjustment: Approximately six months after date of S Completion, Installer's Architectural Hardware Consultant shall exan including adjusting operating forces, each item of door hardware as function of doors, door hardware, and electrified door hardware.
ce with requirements for /all and floor	G. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 09 Sections. Do not install surface-mounted items until finishes have been completed on	 3.6 CLEANING AND PROTECTION A. Clean adjacent surfaces soiled by door hardware installation.
al locations of wiring	 substrates involved. 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation. 2. Drill and countersink units that are not factory prepared for anchorage fasteners. 	B. Clean operating items as necessary to restore proper function andC. Provide final protection and maintain conditions that ensure that d
ave been corrected.	 Space fasteners and anchors according to industry standards. H. Furnish wiring diagrams to electrical contractor for use in installing electrical hardware products. 1. Electrical contractor to run all wiring and make all final connections for electrified 	without damage or deterioration at time of Substantial Completion.3.7 DEMONSTRATION
frames according to	hardware. Hardware supplier shall be responsible to furnish all wiring diagrams to operate electrified hardware. Access control material and electrified hardware to interface at junction boxes.	A. Engage a factory-authorized service representative to train Own personnel to adjust, operate, and maintain door hardware and door Refer to Division 01 Section "Demonstration and Training."
	I. Thresholds : Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."	 3.8 DOOR HARDWARE SETS A. The following schedule of hardware sets shall be considered a guis cautioned to refer to general conditions, special conditions, and th this section. It shall be the hardware supplier's responsibility to furnis
ion of hardware at nufacturer's conducted prior to the ractor Review catalogs,	 3.4 FIELD QUALITY CONTROL A. Architectural Hardware Consultant: Architect shall engage a qualified Architectural Hardware Consultant to perform inspections and to prepare inspection reports. 	 B. Where items of hardware are not definitely or correctly specified ar completion of the Work, a written statement of such omission, error, discrepancy shall be sent to the Architect, prior to date specified for
hardware schedule. nphasis on unusual irdination with other iference. erience in installation of iltant for approval. All	B. Architectural Hardware Consultant shall inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.	 C. Adjustments to the Contract Sum will not be allowed for omission hardware not clarified prior to bid opening.
d fasteners in strict		
03 AUG 2018 - VCBO 18370 SECTION 08 7100 - PAGE 10	PSD WASATCH ES SECURITY UPGRADE 03 AUG 2018 - VCBO 18370 DOOR HARDWARE SECTION 08 7100 - PAGE 11	PSD WASATCH ES SECURITY UPGRADE 03 DOOR HARDWARE SE



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	_	LIGHTING SYME				
).		TURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN OF T FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION.	N THE DRAWINGS IN	VARIOUS SIZES AND SHAPES. REFER TO	SYMBOL	DESCRIPTION MOTION DETECTOR
IPERES METAL CONDUIT	2. ARROWS	INDICATE AIMING DIRECTION.				KEYPAD
NONMETAL CONDUIT NONMETAL CONDUIT CUIT AMPS	SYMBOL	DESCRIPTION	MOUNTING	REMARKS	OHS	OVERHEAD MAGNETIC CONTACT DOOP
NLY -OSED	9	ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED			MAGNETIC CONTACT DOOR SWITCH
RACT		ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED		© ©	GLASS BREAK DETECTOR SIREN
		ARM-MOUNTED DOUBLE-READ LIGHT FIXTURE AND FOLE	OR DETAILED			
NT PROTECTION		POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND POLE	AS SPECIFIED			ACC
TS CONDUIT		WALL-MOUNTED FIXTURE	OR DETAILED AS SPECIFIED	REFER TO ARCHITECTURAL EXTERIOR	SYMBOL REX	DESCRIPTION REQUEST-TO-EXIT MOTION DETECTOR
TALLIC CONDUIT RELOCATE		LIGHT BOLLARD	OR DETAILED	ELEVATIONS FOR MOUNTING HEIGHT		ELECTROMAGNETIC DOOR STRIKE
RESSION NTROL PANEL	00		OR DETAILED		\bigcirc	MAGNETIC DOOR CONTACT SWITCH
STANT		FLOOD LIGHT	AS SPECIFIED OR DETAILED			MAGNETIC LOCK DURESS PUSH-BUTTON
	d d	RECESSED WALL FIXTURE OR STEP LIGHT	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT		LOCK DOWN PUSH-BUTTON
ND ED OTHERWISE		FLUORESCENT LIGHT FIXTURES	AS SPECIFIED OR DETAILED			DOOR CONTROL PUSH-BUTTON
OOF R			OR DETAILED		PR	PROXIMITY CARD READER WIRELESS ACCESS PANEL INTERFACE
					PK	PROXIMITY CARD READER / KEYPAD
		PARABOLIC - LOUVERED LIGHT FIXTURES	AS SPECIFIED OR DETAILED		MR	MAGNETIC STRIP CARD READER
						CLOSED
		RECESSED INDIRECT FLUORESCENT LIGHT FIXTURES	AS SPECIFIED		SYMBOL	DESCRIPTION
			OR DETAILED			CLOSED CIRCUIT TELEVISION CAMERA
		WALL-MOUNTED LINEAR FLUORESCENT LIGHT FIXTURE	AS SPECIFIED			CLOSED CIRCUIT TELEVISION CAMERA CLOSED CIRCUIT TELEVISION CAMERA
		FLUORESCENT LINEAR WALL WASHER	OR DETAILED		PTZ	WITH PAN / TILT / ZOOM HEAD)
			OR DETAILED		TV	CLOSED CIRCUIT TELEVISION MONITOR
	Ø	RECESSED DOWN LIGHT	AS SPECIFIED OR DETAILED		MATRIX	MATRIX SWITCHER
		RECESSED WALL-WASHER OR DIRECTIONAL DOWNLIGHT	AS SPECIFIED OR DETAILED	IF SHOWN, ARROW INDICATES AIMING DIRECTION	Ē	FIBER JUNCTION BOX
	0	SURFACE OR PENDANT-MOUNTED LIGHT FIXTURE	AS SPECIFIED			
	Ю	WALL-MOUNTED LIGHT FIXTURE	OR DETAILED AS SPECIFIED	REFER TO ARCHITECTURAL EXTERIOR		GEA
		TRACK OR MONO-POINT LIGHT FIXTURE	OR DETAILED AS SPECIFIED	ELEVATIONS FOR MOUNTING HEIGHT	SYMBOL	
	•		OR DETAILED	DIRECTION	\$ ₁	MANUAL STARTER WITH THERMAL OVE ELECTRIC MOTOR
	D	WALL SCONCE	AS SPECIFIED OR DETAILED			NON-FUSED DISCONNECT SWITCH
		FLUORESCENT EGRESS LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IS AN <u>EXAMPLE</u> OF AN EGRESS LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE		FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE
				HALF-SHADED DIAGONALLY.		MAGNETIC STARTER
		FLUORESCENT EMERGENCY (NON-EGRESS) LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IN AN <u>EXAMPLE</u> OF AN EMERGENCY (NON-EGRESS) LIGHT FIXTURE.		COMBINATION MAGNETIC STARTER / N
	•		OR DETAILED	EMERGENCY FIXTURES ARE FULLY-SHADED.		COMBINATION MAGNETIC STARTER / FI
	8	CEILING MOUNTED EXIT SIGN	CEILING	DARKENED PORTION OF SIGN INDICATES		(MCP)
	K	WALL-MOUNTED EXIT SIGN	WALL ABOVE DOOR	FACE(S); ARROW(S) INDICATE CHEVRON DIRECTION(S)	VFD	COMB. VARIABLE FREQUENCY DRIVE / PROTECTOR (MCP)
	Kag	WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTURE	WALL ABOVE DOOR		RVS	REDUCED VOLTAGE STARTER
					-	LOAD CENTER (SURFACE-MOUNTED)
	TC	TIME CLOCK EMERGENCY LIGHT FIXTURE	+60" AS NOTED			LOAD CENTER (FLUSH-MOUNTED)
	L L		AGINGIEB			LIGHTING AND APPLIANCE PANELBOAR LIGHTING AND APPLIANCE PANELBOAR
	Ø	ELECTRIC PHOTOCELL	N/A	MOUNT ON ROOF FACING NORTH SKY		POWER DISTRIBUTION PANELBOARD
	XX	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE)				
						SWITCHBOARD
						METER BASE
		GENERAL PROJECT NOTES:			:	OPEN - STOP - CLOSE SWITCH
	1.	DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR READING AND THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PR	OJECT THAT IS CALL	ED OUT IN THE		HVAC THERMOSTAT
		SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMP REQUIRED TO REMEDY THESE DEFICIENCIES. THERE WILL BE		THE CONTRACTOR WILL BE		
	2.	THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION ME			Ø 67-	HAND - OFF - AUTO SWITCH GROUND FAULT PROTECTION
		ELECTRICAL ENGINEER AND REVIEW THE DRAWINGS AND SPE MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGI		IEETING SHALL BE A		' W
	3.	THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS TH ITEMS DO NOT REPRESENT ALL ITEMS AND THE CONTRACTOR		,	0)(450)	1
		REQUIREMENTS OF THE SPECIFICATIONS:			SYMBOL \$	DESCRIPTION SINGLE-POLE TOGGLE SWITCH
		 INSULATED THROAT CONNECTORS OR PLASTIC BUSHING USED ON THIS PROJECT. 	S SHALL BE UTILIZE	D FOR ALL CONDUIT SIZES	\$ ^a	SINGLE-POLE TOGGLE SWITCH
		B. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIP	MENT AS IT IS CALLE	D OUT IN THE	\$ 2	DOUBLE-POLE TOGGLE SWITCH
		SPECIFICATIONS.			\$ 3	THREE-WAY TOGGLE SWITCH
		C. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AI AS REQUIRED BY LOCAL AND NATIONAL CODE.	ND BRACING FOR AL	L ELECTRICAL EQUIPMENT	\$4 \$	FOUR-WAY TOGGLE SWITCH
	4.	THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS I	ARGE ENOUGH FOR	R VOLTAGE DROP.	\$ _K \$ _P	KEY-OPERATED SINGLE-POLE TOGGLE SINGLE-POLE TOGGLE SWITCH WITH P
	5.	TTHE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTIN CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE			\$ _{DIM}	DIMMER SWITCH
		ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WOR ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE F	K MADE NECESSAR	Y BY HIS FAILURE TO DO SO.	\$ _{TIM}	TIMER SWITCH
		REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.		-	\$\$	(2) SINGLE-POLE TOGGLE SWITCH
	6.	ARE NOT OVERLOADED. PROVIDE ADDITIONAL BRANCH CIRCU	JITS FROM ELECTRIC	CAL PANELS AS NECESSARY	\$a \$LV	LOW VOLTAGE MOMENTARY CONTACT
		TO COMPLY WITH THE BRANCH CIRCUIT LOADING REQUIREMENTS. PROVIDE ALL MATERIAL AND LABOR AS NECESSARY FOR A COMPETE AND OPERATING SYSTEM.			\$ _{3PM}	3-POSITION MOMENTARY CONTACT SW
	7.	PROVIDE UPDATED, TYPED PANELBOARD SCHEDULE(S) TO RE			\$3PN	3-POSITION MAINTAINED CONTACT SW
		EXISTING LOADS. THE EXISTING LOADS SHALL BE NAMED THE PANELBOARD SCHEDULE.	SAME AS LISTED ON	N THE EAISTING		OCCUPANCY SENSOR
					e	SPLIT-WIRED DUPLEX RECEPTACLE
					↔	SIMPLEX RECEPTACLE
					₽	DUPLEX RECEPTACLE
						I IZTRATE NAME AND A STREET OF THE

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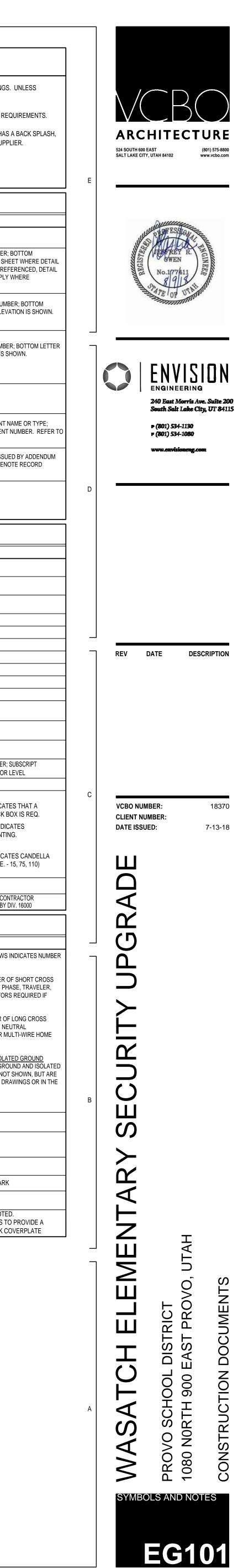
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	SECURITY SYME	BOLS		ELEC	TRICAL SYMBOL SCHEDULE GENERAL	NOTES	
SYMBOL	DESCRIPTION MOTION DETECTOR	MOUNTING	REMARKS SUBSCRIPT DENOTES DEGREES OF	1 1	ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS IND		
			MONITORED AREA	4 1	OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR		
KP OHS	KEYPAD OVERHEAD MAGNETIC CONTACT DOOR SWITCH	+48" DOOR			OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUB		
\diamond	MAGNETIC CONTACT DOOR SWITCH	DOOR			OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL I		
	GLASS BREAK DETECTOR SIREN	CEILING +90"		4. NOT ALL	ELECTRICAL SYMBOLS MAY BE USED.		
	ACCESS CONTROL S	SYMBOLS		ī <u> </u>			
SYMBOL	DESCRIPTION	MOUNTING	REMARKS		GENE	RAL SYMBOLS	
REX	REQUEST-TO-EXIT MOTION DETECTOR	CEILING		SYMBOL	DESCRIPTION		REMARKS
<u> </u>	ELECTROMAGNETIC DOOR STRIKE MAGNETIC DOOR CONTACT SWITCH	DOOR DOOR			KEYED NOTE		TOP NUMBER INDICATES DETAIL NUMBER: B
	MAGNETIC LOCK	DOOR BELOW DESK		$\left \begin{array}{c} 1 \\ \hline E \cdot 1 \end{array} \right $	DETAIL REFERENCE		LETTER-NUMBER INDICATES DRAWING SHEE IS SHOWN; WHERE NOT SPECIFICALLY REFE IS GENERAL IN NATURE AND SHALL APPLY W
	DURESS PUSH-BUTTON LOCK DOWN PUSH-BUTTON	DESK					APPLICABLE.
PR	DOOR CONTROL PUSH-BUTTON PROXIMITY CARD READER	DESK +48"		$\left \begin{array}{c} 2 \\ \hline E \cdot 1 \end{array} \right $	ELEVATION REFERENCE		TOP NUMBER INDICATES ELEVATION NUMBE LETTER-NUMBER INDICATES WHERE ELEVAT
PIM	WIRELESS ACCESS PANEL INTERFACE MODULE	ABOVE CLG					
P K MR	PROXIMITY CARD READER / KEYPAD MAGNETIC STRIP CARD READER	+48"			SECTION REFERENCE		TOP NUMBER INDICATES SECTION NUMBER NUMBER INDICATES WHERE SECTION IS SH
			s				
SYMBOL	DESCRIPTION	MOUNTING	REMARKS		ARCHITECTURAL ROOM NUMBER		
FIX A	CLOSED CIRCUIT TELEVISION CAMERA (FIXED)	CEILING					
	CLOSED CIRCUIT TELEVISION CAMERA (PAN/TILT/ZOOM) CLOSED CIRCUIT TELEVISION CAMERA (HIGH SPEED DOME	CEILING			EQUIPMENT NAME / NUMBER BO		TOP NUMBER ABBREVIATES EQUIPMENT NA BOTTOM NUMBER INDICATES EQUIPMENT N EQUIPMENT SCHEDULE.
PTZ	WITH PAN / TILT / ZOOM HEAD)				REVISION NUMBER		USED TO DENOTE CHANGES EITHER ISSUED OR DURING CONSTRUCTION AND TO DENOT
TV	CLOSED CIRCUIT TELEVISION MONITOR	DESK					DRAWING CHANGES.
	MATRIX SWITCHER FIBER JUNCTION BOX	DESK 72" TO TOP			BREAKLINE		USED TO BREAK DRAWINGS.
ĒJ		OF BOX] <u> </u>			
	GEAR AND CONTROL						
SYMBOL	DESCRIPTION MANUAL STARTER WITH THERMAL OVERLOAD(S)	MOUNTING AT EQUIPMENT	REMARKS	SYMBOL BDT	DESCRIPTION BEAM DETECTOR - TRANSMITTER	MOUNTING 4" BELOW CEILING TO	
<u>+</u>	ELECTRIC MOTOR			BDR	BEAM DETECTOR - RECEIVER	TOP OF DETECTOR 4" BELOW CEILING TO TOP OF DETECTOR	
<u> </u>	NON-FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH	TOP AT +48"-72" TOP AT +48"-72"		EOL	END OF LINE DEVICE	PER MANUFACTUREF RECOMMENDATIONS	
	CIRCUIT BREAKER AND ENCLOSURE	TOP AT +48"-72"			TAMPER SWITCH	AT VALVE	
	MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT	TOP AT +48"-72" TOP AT +48"-72"		FSD.	WATER FLOW INDICATOR FIRE/SMOKE DAMPER	ON FIRE RISER TOP AT 72"	
_ 만	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	TOP AT +48"-72"			HEAT DETECTOR SMOKE DETECTOR	CEILING	
R	COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)	TOP AT +48"-72"		<u></u> ⊘⊳	DUCT SMOKE DETECTOR	SIDE OF DUCT	
VFD	COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED		FIRE ALARM MANUAL STATION	+48" AT DEVICE(S) TO BE	
RVS	REDUCED VOLTAGE STARTER	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED		MONITOR MODULE	CONTROLLED AT DEVICE(S) TO MONITOR	
	LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED)	TOP AT +72" TOP AT +72"	14"W X 3"D 14"W X 3"D		FAN SHUTDOWN RELAY	AT FAN CONTROL PANEL	
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6"D	0	MAGNETIC DOOR HOLDER	COORDINATE WITH DOOR INSTALLER	COORDINATE WITH DOOR INSTALLER; SU 'F' INDICATES TO MOUNT AT FLOOR LE
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED) POWER DISTRIBUTION PANELBOARD	TOP AT +72" WALL	20"W X 6"D THESE SYMBOLS ARE GENERAL IN		WATER FLOOD INDICATOR AUDIO HORN	FLOOR	
			NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS	M	MINI AUDIO HORN	_	SUBSCRIPT 'WP' INDICATE WEATHER PROOF BACK BO
	SWITCHBOARD	FLOOR	HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. 'L2A',	⊠ ⊠⊲	FIRE ALARM VISUAL STROBE FIRE ALARM AUDIO/VISUAL HORN/STROBE	MOUNT PER ALL NFPA 72	SUBSCRIPT 'C' INDICA CEILING MOUNTING
A	METER BASE	TOP AT +72"	'MDP') FURNISH SWITCH UNLESS FURNISHED	<u>M</u> ⊲ \\	MINI AUDIO/VISUAL HORN/STROBE	REQUIREMENTS.	NUMERIC SUBSCRIPT INDICATE
•	OPEN - STOP - CLOSE SWITCH	+60"	BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.	V	FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE		RATING OF STROBE (I.E 1
ě					FIRE FIGHTERS TELEPHONE JACK	+48"	FURNISHED BY FIRE PROTECTION CONT
1	HVAC THERMOSTAT	+60"	PROVIDED BY DIVISION 15000 U.N.O.			RCUITING SYMB	
Ø GF -	HAND - OFF - AUTO SWITCH GROUND FAULT PROTECTION	+60"		SYMBOL	DESCRIPTION		REMARKS
	WIRING DEVICE SY	/ MBOLS		j 💶 🕨			
SYMBOL					 1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO P 	ANEL	ARROWS: NUMBER OF ARROWS IN OF CIRCUITS REQUIRED.
\$	DESCRIPTION	MOUNTING	REMARKS		- 1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO P	ANEL	
	SINGLE-POLE TOGGLE SWITCH	+48"		╽╶╫╺╼	 1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO P 2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO P 		OF CIRCUITS REQUIRED.
\$ ^a	SINGLE-POLE TOGGLE SWITCH SINGLE-POLE TOGGLE SWITCH	+48" +48"	REMARKS SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.		- 2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO P	ANEL	OF CIRCUITS REQUIRED. SHORT CROSS LINES: NUMBER OF LINES INDICATES NUMBER OF PHAS AND/OR SWITCHED CONDUCTORS GREATER THAN 1 (ONE). LONG CROSS LINES: NUMBER OF L LINES INDICATES NUMBER OF NEU
	SINGLE-POLE TOGGLE SWITCH	+48"	SUBSCRIPT KEYS SWITCH TO FIXTURES	 		ANEL	OF CIRCUITS REQUIRED. SHORT CROSS LINES: NUMBER OF LINES INDICATES NUMBER OF PHA: AND/OR SWITCHED CONDUCTORS GREATER THAN 1 (ONE). LONG CROSS LINES: NUMBER OF L
\$ ^a \$ ₂ \$ ₃ \$ ₄	SINGLE-POLE TOGGLE SWITCH SINGLE-POLE TOGGLE SWITCH DOUBLE-POLE TOGGLE SWITCH THREE-WAY TOGGLE SWITCH FOUR-WAY TOGGLE SWITCH	+48" +48" +48" +48" +48" +48"	SUBSCRIPT KEYS SWITCH TO FIXTURES		- 2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO P	ANEL	OF CIRCUITS REQUIRED. SHORT CROSS LINES: NUMBER OF LINES INDICATES NUMBER OF PHAS AND/OR SWITCHED CONDUCTORS GREATER THAN 1 (ONE). LONG CROSS LINES: NUMBER OF NEU CONDUCTORS REQUIRED FOR MUL RUNS. EQUIPMENT GROUND AND ISOLATE CONDUCTORS: EQUIPMENT GROU
\$ ^a \$ ₂ \$ ₃	SINGLE-POLE TOGGLE SWITCH SINGLE-POLE TOGGLE SWITCH DOUBLE-POLE TOGGLE SWITCH THREE-WAY TOGGLE SWITCH	+48" +48" +48" +48"	SUBSCRIPT KEYS SWITCH TO FIXTURES		- 2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO P	'ANEL	OF CIRCUITS REQUIRED. SHORT CROSS LINES: NUMBER OF LINES INDICATES NUMBER OF PHAS AND/OR SWITCHED CONDUCTORS GREATER THAN 1 (ONE). LONG CROSS LINES: NUMBER OF NEU CONDUCTORS REQUIRED FOR MUL RUNS. EQUIPMENT GROUND AND ISOLATE
\$ ^a \$ ₂ \$ ₃ \$ ₄ \$ _K	SINGLE-POLE TOGGLE SWITCH SINGLE-POLE TOGGLE SWITCH DOUBLE-POLE TOGGLE SWITCH THREE-WAY TOGGLE SWITCH FOUR-WAY TOGGLE SWITCH KEY-OPERATED SINGLE-POLE TOGGLE SWITCH	+48" +48" +48" +48" +48" +48" +48"	SUBSCRIPT KEYS SWITCH TO FIXTURES		2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO P 3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO P MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXT	'ANEL	OF CIRCUITS REQUIRED. SHORT CROSS LINES: NUMBER OF LINES INDICATES NUMBER OF PHAS AND/OR SWITCHED CONDUCTORS GREATER THAN 1 (ONE). LONG CROSS LINES: NUMBER OF L LINES INDICATES NUMBER OF NEU CONDUCTORS REQUIRED FOR MUL RUNS. EQUIPMENT GROUND AND ISOLATE CONDUCTORS: EQUIPMENT GROU GROUND CONDUCTORS ARE NOT S REQUIRED AS NOTED ON THE DRAY
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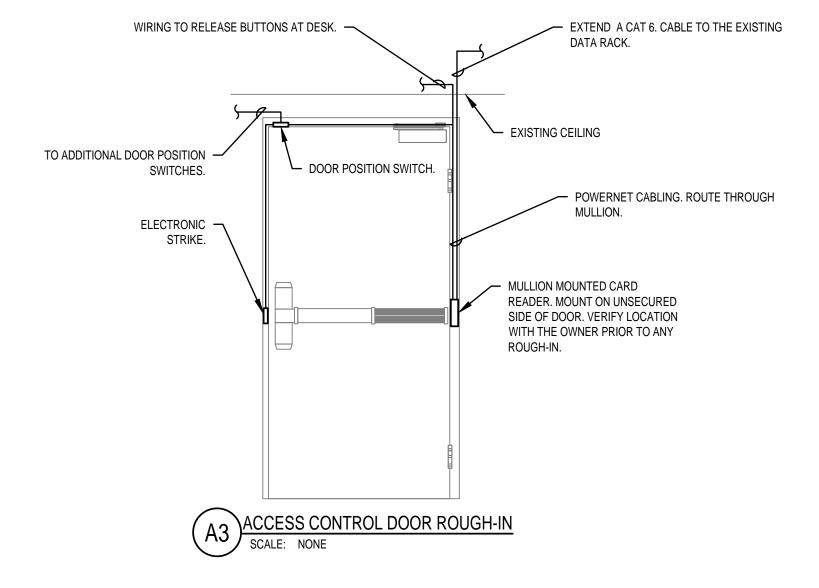
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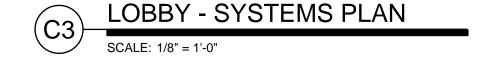
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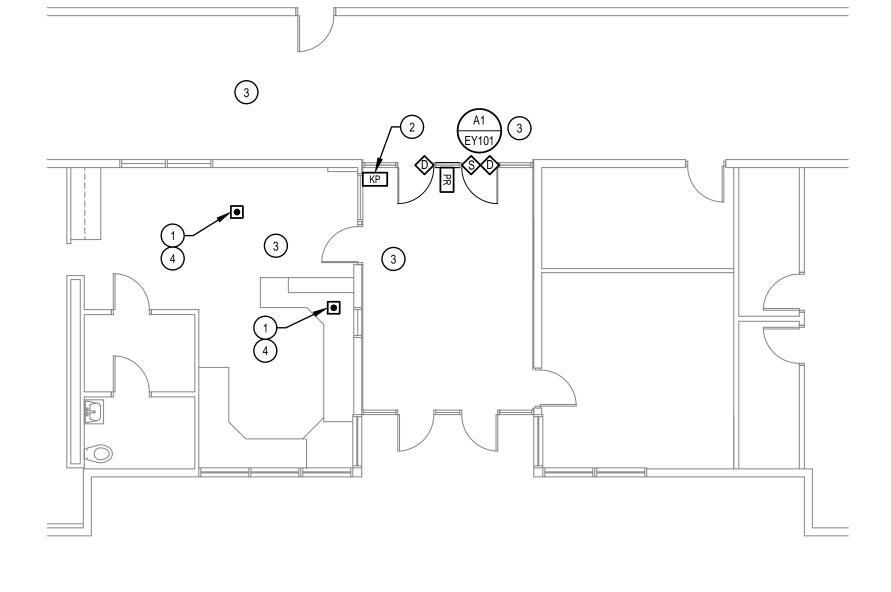


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- CONFIRM EXACT MOUNTING LOCATION OF ALL DOOR RELEASE BUTTONS AT THE RECEPTION DESK WITH THE OWNER PRIOR TO ANY ROUGH-IN. ALL CABLING TO BUTTONS SHALL BE CONCEALED IN THE CEILING AS WALLS. ROUTE CABLING SURFACE BELOW THE DESK. LABEL BUTTONS AS DIRECTED BY THE OWNER.
- 2. EXISTING SECURITY KEYPAD TO REMAIN IN PLACE. PROTECT FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. IF DAMAGED THE CONTRACTOR SHALL REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- 3. ROUTE ALL CABLING THROUGH THE DOOR MULLION AND INTO THE ACCESSIBLE CEILING SPACE. ALL NEW CABLING SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE. SURFACE RACEWAY MAY BE USED WHERE CABLING IS EXTENDED TO THE RECEPTION DESK(S) WERE BLOCK WALLS EXIST. CONFIRM ALL SURFACE RACEWAY LOCATIONS AND ROUTING WITH THE OWNER PRIOR TO INSTALLING ANY SURFACE RACEWAYS.
- 4. PUSHBUTTON TO RELEASE VESTIBULE DOOR.

GENERAL NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO ADDITIONAL PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.

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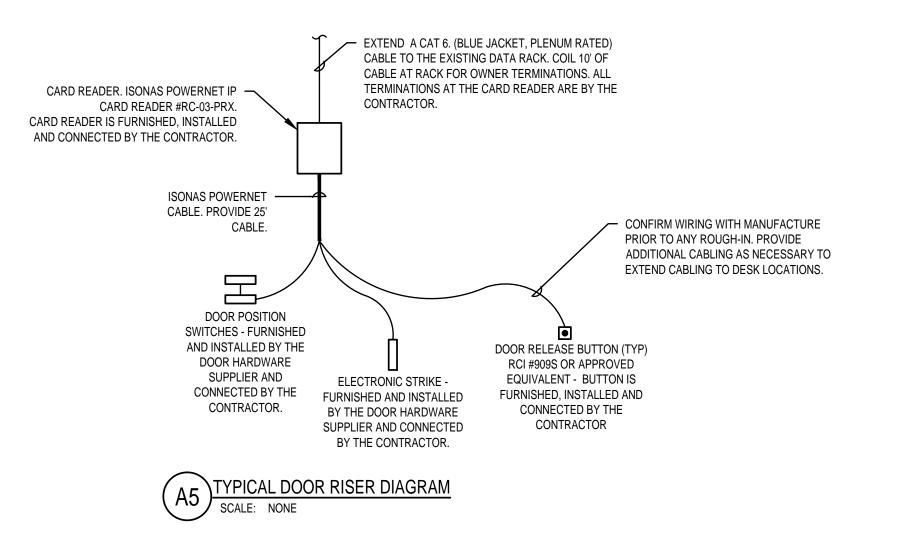
- 2. CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER FOR DOOR REQUIREMENTS, ROUGH-IN AND WIRING.
- 3. CONTRACTOR TO REFER TO THE MANUFACTURES WRITTEN INSTRUCTION FOR ALL REQUIRED INSTALLATION REQUIREMENTS AND WIRING REQUIREMENTS.
- 3. INSTALL ACCESS CONTROL ON THE RIGHT HAND DOOR UNLESS OTHERWISE DIRECTED BY THE OWNER. VERIFY DOOR ROUGH-IN WITH THE OWNER PRIOR TO ANY ROUGH-IN.

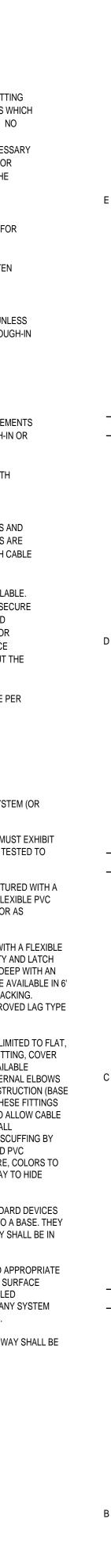
CAT 6 CABLING GENERAL NOTES:

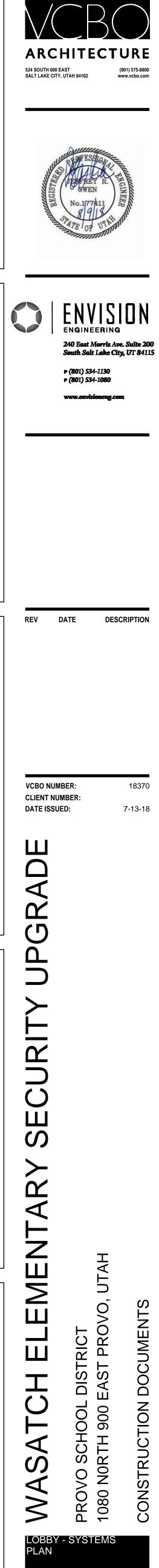
- 1. CONTRACTOR SHALL COORDINATE ALL CABLING REQUIREMENTS AND WORK WITH OWNERS IT MANAGER PRIOR TO ROUGH-IN OR PULLING ANY CABLING.
- ALL CABLES SHALL BE TERMINATED AND LABELED AT BOTH ENDS. PROVIDE LABELING AS DIRECTED BY OWNERS IT MANAGER.
- CONTRACTOR IS RESPONSIBLE FOR TESTING ALL CABLES AND CONNECTIONS TO ENSURE BICSI AND EIA/TIA STANDARDS ARE MET. PROVIDE A WRITTEN REPORT TO OWNER FOR EACH CABLE TESTED.
- 4. ALL CABLING SHALL BE RUN IN CABLE TRAY WHERE AVAILABLE. WHERE CABLES ARE ROUTED IN ACCESSIBLE CEILINGS, SECURE AND SUPPORT CABLES WITH J-HOOKS. INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OR EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS. USE UL-LISTED PLENUM CABLE THROUGHOUT THE ENTIRE SYSTEM.
- 5. THE CONTRACTOR SHALL PROVIDE ONE (1) PATCH CABLE PER INSTALLED CABLE. CONFIRM LENGTH WITH OWNERS IT MANAGER PRIOR TO ORDERING.

SURFACE RACEWAY

- 1. PROVIDE WIREMOLD #2900 SERIES LATCHING RACEWAY SYSTEM (OR APPROVED EQUIVALENT).
- 2. THE LATCHING RACEWAY AND ALL SYSTEM COMPONENTS MUST EXHIBIT NONFLAMMABLE SELF-EXTINGUISHING CHARACTERISTICS, TESTED TO COMPARABLE SPECIFICATIONS OF UL94V-0.
- 3. THE 2900 SERIES LATCHING RACEWAY SHALL BE MANUFACTURED WITH A CO-EXTRUDED DESIGN OF RIGID PVC COMPOUND WITH A FLEXIBLE PVC HINGE. THE RACEWAY SHALL HAVE A SMOOTH FINISH, COLOR AS DETERMINED BY ARCHITECT AND SCHOOL DISTRICT.
- 4. THE LATCHING RACEWAY SHALL BE A ONE-PIECE DESIGN WITH A FLEXIBLE HINGE. THE COVER SHALL OPEN TO PROVIDE ACCESSIBILITY AND LATCH SECURELY CLOSED. TOTAL WIDTH SHALL BE 1.00" BY 0.50" DEEP WITH AN APPROXIMATE THICKNESS OF .04". THE RACEWAY SHALL BE AVAILABLE IN 6' AND 8' LENGTHS AND BE SUPPLIED WITH ADHESIVE TAPE BACKING. SUPPORT RACEWAY A MINIMUM OF EVERY 4' WITH AN APPROVED LAG TYPE FASTING DEVICE.
- 5. PROVIDE ALL FITTINGS (2900 SERIES) INCLUDING BUT NOT LIMITED TO FLAT, INTERNAL AND EXTERNAL ELBOWS, TEES, DROP CEILING FITTING, COVER CLIPS, AND END CAPS. FIBER OPTIC FITTINGS MUST BE AVAILABLE INCLUDING, BUT NOT LIMITED TO FLAT, INTERNAL AND EXTERNAL ELBOWS AND TEES. THESE FITTINGS SHALL BE OF TWO-PIECE CONSTRUCTION (BASE AND COVER) WITH SWEPT BEND RADII OF 1.25" MINIMUM. THESE FITTINGS SHALL HAVE INTEGRATED CABLE RETENTION FEATURES TO ALLOW CABLE LAY-IN, THUS AVOIDING EXCESSIVE LOADING. FITTINGS SHALL INCORPORATE PROTECTIVE FLANGES ELIMINATING CABLE SCUFFING BY SCREW HEADS. THEY SHALL BE MANUFACTURED OF A RIGID PVC COMPOUND. THE FITTINGS SHALL HAVE A SMOOTH TEXTURE, COLORS TO MATCH THE RACEWAY. THEY SHALL OVERLAP THE RACEWAY TO HIDE UNEVEN CUTS.
- DEVICE BOXES SHALL BE AVAILABLE FOR MOUNTING STANDARD DEVICES AND FACEPLATES. DEVICE BOXES SHALL BE SNAPPED ONTO A BASE. THEY SHALL BE MANUFACTURED OF RIGID PVC COMPOUND. THEY SHALL BE IN COLORS TO MATCH THE RACEWAY.
- 7. ALL WORK SHALL INCLUDE FURNISHING ALL RACEWAY AND APPROPRIATE FITTINGS AND DEVICE PLATES TO INSTALL A NONMETALLIC SURFACE RACEWAY SYSTEM. INSTALLER SHALL COMPLY WITH DETAILED MANUFACTURER'S INSTRUCTION SHEETS, WHICH ACCOMPANY SYSTEM COMPONENTS, AS WELL AS SYSTEM INSTRUCTION SHEETS.
- 8. KEEP SURFACE RACEWAYS TO A MINIMUM. SURFACE RACEWAY SHALL BE FROM THE CEILING SPACE TO THE DEVICE.







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