TERRA LINDA H.S. Summer Modernization - Bid Clarification #1 Date: 4/20/2020

- 1. See Attached Pre-bid RFI #1 for flooring clarifications at gym floor
- 2. See attached Pre-bid RFI #2 Ceiling clarifications
- 3. See attached revised door hardware schedule and revised hardware specifications

REQUEST FOR INFORMATION

PROJECT NAME: Terra Linda	a HS Modernization		JOB NO. 200				
DSA Application #01-118754			RFI NO. PB 01				
TO: HED		FROM: BHM Construction, Inc.					
417 Montgomery Street		221 Gateway Road W, Ste. 405					
San Francisco, CA 94104		Napa, CA 94558					
SUBJECT: Prebid RFI #1 - W	ood Floor Clarifications	•					
CATEGORY:							
□ NEED ADDITIONAL INFO	ORMATION	□ OTHER					
□ UNFORESEEN CONDIT	TION						
	BLEM OR CONFLICT WITHI	N DOCUMENTS					
SPEC. SECTION	PARAGRAPH NO.	DRAWING NO.	DETAIL NO.				
DESCRIPTION:							
be or will it be similar to the 4. Do we know what color to 5. Please confirm that there 6. Please confirm that there ATTACHMENTS:	the solid keys will be or will is a solid painted border.		e existing?				
	COST IMPACT: \$ EST.□	TIME IMPACT: EST.					
CONTRACTOR SIGNATURE:	Seamus Dooher	DATE ISSUED: 4/17/20	DATE REQUIRED: 4/17/20				
 2. Yes, the existing base is to be demolished. 3. It will be block lettering similar to existing. The center floor logo will be block "TL" overlapping letters similar to the football field. 4. The solid keys will be similar to the existing blue. 5. Yes, a solid painted border is to be included. 6. Provide a square footage unit price for flooring repairs as there may be some repairs after the bleachers are removed, but the extent is unknown at this time. 							
ARCHITECT SIGNATURE: §	Scott Berge, HED		DATE: 4/17/20				

REQUEST FOR INFORMATION

PROJECT NAME: Terra Linda	a HS Modernization		JOB NO. 200
DSA Application #01-118754			RFI NO. PB 02
TO: HED		FROM: BHM Constructio	•
417 Montgomery Street		221 Gateway Road W, Ste	e. 405
San Francisco, CA 94104		Napa, CA 94558	
SUBJECT: Prebid RFI #1 - Ce	eiling Clarifications		
CATEGORY:			
□ NEED ADDITIONAL INF	ORMATION	□ OTHER	
☐ UNFORESEEN CONDIT	TON		
	BLEM OR CONFLICT WITI	HIN DOCUMENTS	
SPEC. SECTION	PARAGRAPH NO.	DRAWING NO.	DETAIL NO.
The spec 095113 calls out 2 drawings, finish schedule of There is a big cost difference entrance and the Artic will Please confirm or advise.	r spec does it specify whice between the two. I'm go go in the 2nd-floor rooms	ch goes where. oing to assume the Impact v	-
Rockfon Artic is to b ATTACHMENTS:	be used in the gym lot e used in the classroon	,	DATE: 4/47/20
ARCHITECT SIGNATURE: \$	Scott Berge, HED		DATE: 4/17/20

F	FINISH S	CHE	DUL	.E												
		FLC	OOR	ВА	\SE				WALL					CEII	LING	
						NOI	RTH	EA	ST	SO	JTH	WE	EST			NOTES
ROOM #	ROOM NAME	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	
	BUILDING A			_		_		_		•	•					
A58A	CLASSROOM	LINO	FF	RES	FF	TB/WC	FF/P	TB/WC	FF/P	TB/WC	FF/P	TB/WC	FF/P	ACT/GYP	FF/P	APPLY WALLCOVERING OVER TACKBOARD
A58B	CLASSROOM	LINO	FF	RES	FF	TB/WC	FF/P	TB/WC	FF/P	TB/WC	FF/P	TB/WC	FF/P	ACT/GYP	FF/P	APPLY WALLCOVERING OVER TACKBOARD
	GYM BUILDING															
K01	ENTRANCE	(E)	FF	RES	FF	(E)GYP	Р	(E)GYP	Р	(E)GYP	Р	(E)GYP	Р	ACT	FF	
K07	GYM	(E)	FF	RES	FF	(E)GYP	Р	(E)GYP	Р	(E)GYP	Р	(E)GYP	Р	(E) TECTUM	Р	(E) FLOOR TO BE REFINISHED AND RESTRIPED

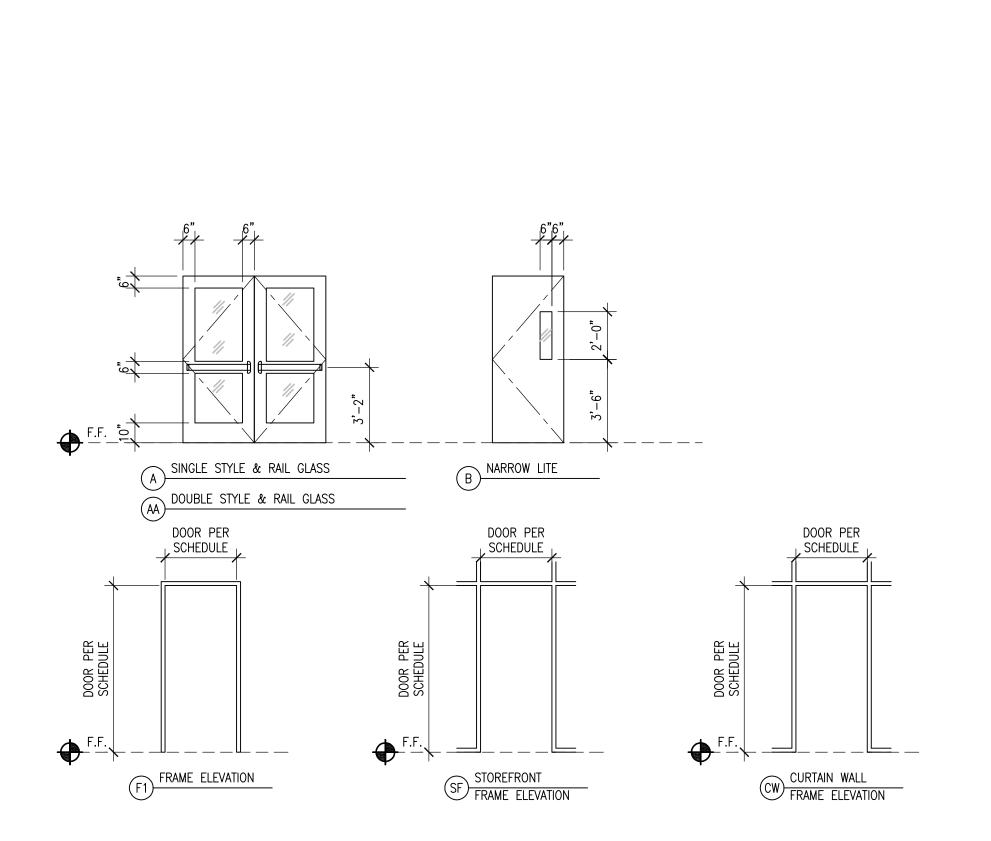
FINISHES NOTES

1. SEE FLOOR PLANS, REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH AND MATERIAL INFORMATION. THE FINISH SCHEDULE CALLS OUT MAJOR MATERIALS ONLY. CABINETS, MARKER BOARDS, AND TACK PANELING ARE NOT INDICATED IN FINISH SCHEDULE. SEE INTERIOR ELEVATIONS FOR THESE AND OTHER ITEMS NOT CALLED OUT IN THE FINISH SCHEDULE.

- 2. TRANSITION BETWEEN DISSIMILAR FLOORING MATERIALS SHALL OCCUR UNDER INTERVENING DOORS. SEE ALSO DETAIL 1/A-591 FOR FLOOR TRANSITION DETAILS.
- 3. INTERIOR PAINT FINISH ALL PAINTED SURFACES TO RECEIVE SEMI-GLOSS FINISH UNLESS OTHERWISE NOTED.
- 4. ALL FLOOR FINISHES SHALL BE FIRM & SLIP RESISTANT IN ACCORDANCE WITH C.B.C. SECTION 11B-302/.

		CURTAIN WALL FRA	AME				GLAZING	FIRE	
TYPE	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	TYPE	RATING	COMMENTS
SF1	EXT	ALUM	ANODIZED	4/A-562	4/A-562	3/A-562	2		OPERABLE WINDOW, MANUAL ROLLER SHADE
SF2	EXT	ALUM	ANODIZED	4/A-562	4/A-562	1/A-561	2		OFERABLE WINDOW, MANUAL ROLLER SHADE
SF3	EXT	ALUM	ANODIZED	4/A-562	4/A-562	3/A-562	2		OPERABLE WINDOW, MANUAL ROLLER SHADE
SF4	EXT	ALUM	ANODIZED	4/A-562	4/A-562 4/A-562	3/A-562	2		OPERABLE WINDOW, MANUAL ROLLER SHADE
SF5	EXT	ALUM	ANODIZED	4/A-562	4/A-562 4/A-562	1/A-561	2		OPERABLE WINDOW, MANUAL ROLLER SHADE
SF6	EXT	ALUM	ANODIZED	4/A-562 4/A-562	4/A-562 4/A-562	1/A-561 1/A-562	2		
SF7	EXT		ANODIZED	4/A-562 4/A-562		3/A-562			OPERABLE WINDOW, MANUAL ROLLER SHADE
		ALUM			4/A-562		2		,
SF8	EXT	ALUM	ANODIZED	12/A-562	13/A-562	10/A-562	2		OPERABLE & TRANSACTION WINDOW, MANUAL ROLLER SHAD
SF9	EXT	ALUM	ANODIZED	15/A-562	15/A-562	14/A-562	2		OPERABLE WINDOW, MANUAL ROLLER SHADE
SF10	EXT	ALUM	ANODIZED	4/A-562	4/A-562	1/A-562	2		WANNA BOLLED OLLARE
SF11	EXT	ALUM	ANODIZED	4/A-562	4/A-562	1/A-562	2		MANUAL ROLLER SHADE
SF12	EXT	ALUM	ANODIZED	4/A-562	4/A-562	1/A-562	2		
SF13	EXT	ALUM	ANODIZED	4/A-562	4/A-562	1/A-562	2		
SF14	EXT	ALUM	ANODIZED	4/A-562	9/A-562	1/A-562	2		
SF15	EXT	ALUM	ANODIZED	4/A-562	9/A-562	1/A-562	2		
SF16	EXT	ALUM	ANODIZED	4/A-562	4/A-562	1/A-562	2		MANUAL ROLLER SHADE
CW1	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A-562	2, 3		
CW2	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A-562	2, 3		
CW3	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A-562	2, 3		
CW4	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A-562	2, 3		
CW5	EXT	ALUM	ANODIZED	7/A-562	9/A-562	1/A-562	2		
CW6	EXT	ALUM	ANODIZED	7/A-562	9/A-562	1/A-562	2		
CW7	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A-562	2, 3		
CW8	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A-562	2, 3		
CW9	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A-562	2, 3		
CW10	EXT	ALUM	ANODIZED	7/A-562	6/A-562	1/A - 562	2, 3		

		D	OOR				RATING	HD	WR _y		FRAME			DETAIL		SIGNAGE	EXIT SIGNAGE	NOTES
000R #	SIZE	THK	TYPE	MATL	FIN	INT/EXT	MIN	GRP	3 _{PH}	TYPE	MATL	FIN	HEAD	JAMB	THRESHOLD	PER (G-003)	PER (G-003)	NOTES
IST F	LOOR	•					}		7			ı	I					
A10A	PAIR 4'0"X7'0"	1 3/4"	AA	AL	FF	EXT	->	05	2 Y	F2	AL	FF	7/A-561	9/A-561	1/A-561	2C	2A	INSTALL SECURE ACCESS PAD WITH ELECTRIFIED EXIT DEVICE
A14A	3'0"X7'0"	1 3/4"	Α	AL	FF	EXT	->	01	₹ Y	F2	AL	FF	7/A-561	8/A-561	1/A-561	2D	2A	
A14B	3'0"X7'0"	1 3/4"	Α	AL	FF	EXT	->	01	3 Y	F2	AL	FF	7/A-561	8/A-561	1/A-561	2D	2A	
100A	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	->	05	3 Y	F2	AL	FF	7/A-561	8/A-561	1/A-561	2C	2A	INSTALL SECURE ACCESS PAD WITH ELECTRIFIED EXIT DEVICE
1300A	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	03	} Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	2C	2A	INSTALL SECURE ACCESS PAD WITH ELECTRIFIED EXIT DEVICE
1300B	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	05	3 Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	_	_	
1300C	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	03	} Y	F2	AL	FF	7/A-561	9/A-561	1/A-561	2C	2A	
1300D	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	03	} Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	-	-	
1300E	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	05	₹ Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	2C	2A	INSTALL SECURE ACCESS PAD WITH ELECTRIFIED EXIT DEVICE
E1A	3'0"X7'0"	1 3/4"	Α	AL	FF	EXT	-	01	₹ Y	F2	AL	FF	7/A-561	8/A-561	1/A-561	2C	2A	
E1B	3'0"X7'0"	1 3/4"	(E) A	AL	FF	EXT	->	01	₹ Y	(E) F2	AL	FF	(E) 7/A-561	(E) 8/A-561	(E) 1/A-561	2C	2A	REINSTALL (E) STOREFRONT DOOR IN NEW STOREFRONT OPENING. PROVIDE HARDWIRE CONNECTION TO (E) POWER OPERATOR.
E13C	3'0"X7'0"	1 3/4"	(E) A	AL	FF	EXT	->	07	₹ Y	(E) F2	AL	FF	(E) 7/A-561	(E) 8/A-561	(E) 1/A-561	2C	2A	(E) STOREFRONT DOOR TO REMAIN. INSTALL SECURE ACCESS PAD WELECTRIFIED EXIT DEVICE
.100A	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT		03	J Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	1	ı	INSTALL SECURE ACCESS PAD WITH ELECTRIFIED EXIT DEVICE
.100B	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	05	} Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	2C	2A	
.100C	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT		03	} Y	F2	AL	FF	7/A-561	9/A-561	1/A-561	2C	2A	
.100D	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	05	3 Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	_	_	INSTALL SECURE ACCESS PAD WITH ELECTRIFIED EXIT DEVICE
.100E	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	03	3 Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	2C	2A	
113A	PAIR 3'0"X7'0"	1 3/4"	AA	AL	FF	EXT	-	05	7 Y	F2	AL	FF	7/A-561	8/A-561 9/A-561	1/A-561	2D	2A	INSTALL SECURE ACCESS PAD WITH ELECTRIFIED EXIT DEVICE
127A	3'0"X7'0"	1 3/4"	A	AL	FF	EXT	-	06	∑ Y	F2	AL	FF	7/A-561	9/A-561		2D	2A	
K01	PAIR 3'0"X7'0"	1 3/4"	(E) A	AL	FF	EXT	- \	07	\(\frac{1}{2}\)	(E) F2	AL	FF	(E) 7/A-561	(E) 8/A-561	(E) 1/A-561	2C	2A	(E) STOREFRONT DOOR TO REMAIN. INSTALL SECURE ACCESS PAD W ELECTRIFIED EXIT DEVICE
2ND I	FLOOR						Ψ.	بر	<u>س</u>									
1400A	3'0"X7'0"	1 3/4"	A	AL	FF	EXT	-	02	N	F2	AL	FF	7/A-561	9/A-561	1/A-561	2C	_	
.200A	3'0"X7'0"	1 3/4"	A	AL	FF	EXT	-	02	N	F2	AL	FF	7/A-561	9/A-561	1/A-561	2C	-	
A58B	3'0"X7'0"	1 3/4"	В	WD	Р	INT	60	04	N	F1	НМ	Р	6/A-561	5/A-561	2/A-561	2D	2B	





ACP	ACOUSTICAL CEILING PANEL
ACP2	BLACK ACOUSTICAL CEILING PANEL
ACP3	BLACK ACOUSTICAL BOARD
AL	ALUMINUM
AWP	ACOUSTICAL WALL PANELING
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CPT	CARPET
СТ	CERAMIC TILE
EP	EPOXY FLOORING
ES	EXPOSED STRUCTURE
ETZ	EPOXY TERRAZZO FLOORING
EXT	EXTERIOR
FF	FACTORY FINISH
FIN	FINISH
FRP	FIBERGLASS REINFORCED PLASTIC PANELING
GL	GLASS
GYP	GYPSUM BOARD
НМ	HOLLOW METAL
INT	INTERIOR
IRGB	IMPACT RESISTANT GYPSUM BOARD
LINO	LINOLEUM
MATL	MATERIAL
Р	PAINT
PC	POLISHED CONCRETE
PLP	PLASTIC LAMINATE PANELING
PLY	PLYWOOD
RES	RUBBER BASE
SCW	SOLID CORE DOOR
SLR	CONCRETE SEALER
SS	STAINLESS STEEL
TB	TACKBORAD PANELING
TP	TRANSPARENT FINISH
VRB	VENTED RESILIENT RUBBER BASE
WC	WALLCOVERING
WD	WOOD
WDM	WOOD FLOORING SYSTEM WITH MASONITE

FINISH SCHEDULE MATERIAL LEGEND



310 Nova Albion Way San Rafael, CA 94903 415.492.3200

Terra Linda High School Modernization

310 Nova Albion Way San Rafael, CA 94903

Date Issued For
1/17/2020 DSA Submittal
4/13/2020 BID SET #1

DOOR NOTES:

- 1. OVERALL DIMENSIONS SHOWN ARE NOMINAL DESIGN DIMENSIONS SEE DETAILS AND FIELD VERIFY ROUGH OPENING DIMENSIONS TO DETERMINE OVERALL FABRICATION DIMENSIONS.
- 2. HOLLOW METAL FRAME FACE DIMENSION IS 2 INCHES U.O.N. SEE DETAILS FOR FRAME PROFILES.
- 3. ALL HOLLOW METAL FRAMES ARE FIELD PAINTED U.O.N.
- 4. CONNECT HOLLOW METAL FRAMES TO WALLS AS FOLLOWS:

 METAL STUDS: STEEL STUD ANCHORS @24" O.C. MAX. ALL AROUND
 AND 9" MAX. FROM ENDS. (3) PER JAMB MIN. (1) ANCHOR @
 HEAD MIDSPAN @ DOORS WIDER THAN 3'—0". (4) #8 X 3/4"
 FLAT HEAD SHEET METAL SCREWS PER ANCHOR TYPICAL.

 CONCRETE: 3/8" DIA. HILTI EXPANSION ANCHOR @ 24" O.C. MAX. —
 6" FROM ENDS (2) PER SIDE MIN.
- 5. ALL GLAZING IN DOORS AND ALL SIDELITE/TRANSOM GLAZING TO BE LAMINATED GLASS U.O.N.
- **6.** ALL GLAZING IN FIRE RATED DOORS TO BE FIRE RESISTANT SAFETY GLASS U.O.N.
- 7. ALL DOORS ARE TO BE 1 3/4" THICK U.O.N.

DOOR SCHEDULE NOTES:

A. FOR DOOR HARDWARE (HDWR) REFER TO SPECIFICATIONS.

B. ALL EXTERIOR DOORS ARE TO OPEN 180 DEGREES DEPENDING ON THEIR LOCATION U.O.N.

C. PROVIDE BACKING @ ALL WALL MOUNTED DOOR STOP LOCATIONS.

- D. ALL DOORS IN PATH OF TRAVEL SHALL:
- PROVIDE 32" OF CLEAR ACCESS
- BE PROVIDED W/ LEVER TYPE LOCKS & LATCHESBE OPERATED W/ A MAX. FORCE OF 5# INTERIOR AND 5# EXTERIOR
- HAVE MAX. THRESHOLD HEIGHT OF 1/2" IF BEVELED 1:2

DOOR S	CHEDULE MATERIAL LEGEND
AL	ALUMINUM
EXT	EXTERIOR
FF	FACTORY FINISH
FIN	FINISH
GL	GLASS
GRP	GROUP
HDWR	HARDWARE
НМ	HOLLOW METAL
INT	INTERIOR
MATL	MATERIAL
Р	PAINT
PH	PANIC HARDWARE
SCW	SOLID CORE DOOR
SS	STAINLESS STEEL
STL	STEEL
THK	THICKNESS
TP	TRANSPARENT FINISH



417 Montgomery Street Suite 400 San Francisco, California 94104 USA (415) 981-2345

WWW.HED.DESIGN

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SCHEDULES

A-601

SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions of Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.
- B. This Section includes the following, but is not necessarily limited to:
 - 1. Door Hardware, including electric hardware.
 - 2. Storefront and Entrance door hardware.
 - 3. Power supplies for electric hardware.
 - 4. Thresholds, gasketing and weather-stripping.
 - 5. Door silencers or mutes.
- C. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing.
 - 1. Division 8: Section Steel Doors and Frames.
 - 2. Division 8: Section Wood Doors.
 - 3. Division 8: Section Aluminum Storefront
 - 4. Division 28: Section Fire/Life-Safety Systems & Security Access Systems.

1.3 REFERENCES (USE DATE OF STANDARD IN EFFECT AS OF BID DATE.)

- A. 2019 California Building Code, CCR, Title 24.
- B. BHMA Builders' Hardware Manufacturers Association
- C. DHI Door and Hardware Institute
- D. NFPA National Fire Protection Association.
 - 1. NFPA 80 Fire Doors and Other Opening Protectives
 - 2. NFPA 105 Smoke and Draft Control Door Assemblies
- E. UL Underwriters Laboratories.
 - 1. UL 10C Fire Tests of Door Assemblies
 - 2. UL 305 Panic Hardware
- F. WHI Warnock Hersey Incorporated
- G. SDI Steel Door Institute

1.4 SUBMITTALS & SUBSTITUTIONS

- A. General: Submit in accordance with Conditions of the Contract and Division 1 Specification sections.
- B. Submit product data (catalog cuts) including manufacturers' technical product information for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- C. Submit six (6) copies of schedule organized vertically into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:
 - 1. Include a Cover Sheet with;
 - a. Job Name, location, telephone number.
 - b. Architects name, location and telephone number.
 - c. Contractors name, location, telephone number and job number.
 - d. Suppliers name, location, telephone number and job number.
 - e. Hardware consultant's name, location and telephone number.
 - 2. Job Index information included;
 - Numerical door number index including; door number, hardware heading number and page number.
 - b. Complete keying information (referred to DHI hand-book "Keying Systems and Nomenclature"). Provision should be made in the schedule to provide keying information when available; if it is not available at the time the preliminary schedule is submitted.
 - c. Manufacturers' names and abbreviations for all materials.
 - d. Explanation of abbreviations, symbols, and codes used in the schedule.
 - e. Mounting locations for hardware.
 - f. Clarification statements or questions.
 - g. Catalog cuts and manufacturer's technical data and instructions.
 - 3. Vertical schedule format sample:

Headi	Heading Number 1 (Hardware group or set number – HW -1)										
			(a) 1 Single Door #1 - Exterior from Corridor 101	(b) 90°	(c) RH						
			(a) 1 emgle Beer #1 Extends nom contact for	(5) 50	(6) 1 (1)						
			(d) 3' 0"x7' 0" x 1-3/4" x (e) 20 Minute (f) WD x HM								
(g) 1	(h)	(i) ea	(j) Hinges - (k) 5BB1HW 4.5 x 4.5 NRP (l) ½ TMS	(m) 626	(n) IVE						
2	6AA	1 ea	Lockset - ND50PD x RHO x RH x 10-025 x JTMS	626	SCH						

- (a) Single or pair with opening number and location. (b) Degree of opening (c) Hand of door(s) (d) Door and frame dimensions and door thickness. (e) Label requirements if any. (f) Door by frame material. (g) (Optional) Hardware item line #. (h) Keyset Symbol. (i) Quantity. (j) Product description. (k) Product Number. (l) Fastenings and other pertinent information. (m) Hardware finish codes per ANSI A156.18. (n) Manufacture abbreviation.
- D. Make substitution requests in accordance with Division 1. Substitution requests must be made prior to bid date. Include product data and indicate benefit to the project. Furnish samples of any proposed substitution.
- E. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.
- F. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate 20119-05785

 Terra Linda High School Modernization

 Section 08 71 00

- provisions are made for locating and installing door hardware to comply with indicated requirements.
- G. Furnish as-built/as-installed schedule with close-out documents, including keying schedule and transcript, wiring/riser diagrams, manufacturers' installation and adjustment and maintenance information.
- H. Fire Door Assembly Testing: Submit a written record of each fire door assembly to the Owner to be made available to the Authority Having Jurisdiction (AHJ) for future building inspections.

1.5 QUALITY ASSURANCE

- A. Obtain each type of hardware (latch and lock sets, hinges, closers, exit devices, etc.) from a single manufacturer.
- B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.
 - 1. Responsible for detailing, scheduling and ordering of finish hardware.
 - 2. Meet with Owner to finalize keying requirements and to obtain final instructions in writing.
 - 3. Stock parts for products supplied and are capable of repairing and replacing hardware items found defective within warranty periods.
- C. Hardware Installer: Company specializing in the installation of commercial door hardware with five years documented experience.
- D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not.
 - 1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".
- E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Coordinate delivery of packaged hardware items to the appropriate locations (shop or field) for installation.
- B. Hardware items shall be individually packaged in manufacturers' original containers, complete with proper fasteners. Clearly mark packages on outside to indicate contents and locations in hardware schedule and in work.
- C. Provide locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, etc.
- D. Contractor to inventory door hardware jointly with representatives of hardware supplier and hardware installer until each all are satisfied that count is correct.

1.7 WARRANTY

- A. Provide warranties of respective manufacturers' regular terms of sale from day of final acceptance as follows:
 - 1. Locksets: Ten (10) years.
 - 2. Closers: Thirty (30) years.
 - 3. Exit devices: Three (3) years.
 - 4. All other hardware: Two (2) years.

1.8 MAINTENANCE

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.

1.9 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference at least one week prior to beginning work of this section.
- B. Attendance: Architect, Construction Manager, Contractor, Security Contractor, Hardware Supplier, Installer, Key District Personnel, and Project Inspector.
- C. Agenda: Review hardware schedule, products, installation procedures and coordination required with related work. Review District's keying standards.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

<u>Item</u>	<u>Manufacturer</u>	Acceptable Substitutes
Hinges	Ives	Hager, Stanley, McKinney
Locks, Latches & Cylinders	Schlage	Or Approved Equal
Exit Devices	Von Duprin	Or Approved Equal
Closers	LCN	Or Approved Equal
Push, Pulls & Protection Plates	Ives	Trimco, BBW, DCI
Flush Bolts	Ives	Trimco, BBW, DCI
Dust Proof Strikes	Ives	Trimco, BBW, DCI
Coordinators	lves	Trimco, BBW, DCI
Stops	Ives	Trimco, BBW, DCI
Overhead Stops	Glynn-Johnson	Or Approved Equal

Thresholds Zero Pemko, National Guard

Seals & Bottoms Zero Pemko, National Guard

2.2 **MATERIALS**

- A. Exterior out-swinging door butts shall be non-ferrous material and shall have stainless steel hinge pins. All doors to have non-rising pins.
 - Hinges shall be sized in accordance with the following:
 - Height:
 - Doors up to 42" wide: 4-1/2" inches. 1)
 - 2) Doors 43" to 48" wide: 5 inches.
 - Width: Sufficient to clear frame and trim when door swings 180 degrees. b.
 - Number of Hinges: Furnish 3 hinges per leaf to 7'-5" in height. Add one for each additional 2 feet in height.
 - 2. Furnish non-removable pins (NRP) at all exterior out-swing doors and interior key lock doors with reverse bevels.
- Continuous Hinges: As manufactured by Ives, an Allegion Company. UL rated as required. B.
- C. Heavy Duty Cylindrical Locks and Latches: Schlage "ND" Series as scheduled with "Rhodes" design, fastened with through-bolts and threaded chassis hubs.
 - Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
 - Abusive Locked Lever Torque Test minimum 3,100 inch-pounds without gaining access
 - b. Offset lever pull – minimum 1,600 foot pounds without gaining access
 - Vertical lever impact minimum 100 impacts without gaining access
 - 2. Cycle life - tested to minimum 16 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers
 - UL 10C for 4'-0" x 10'-0" 3-hour fire door. 3.
 - Cylinders: Refer to "KEYING" article, herein. 4.
 - 5. Provide solid steel anti-rotation through bolts and posts to control excessive rotation of
 - 6. Provide lockset that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts.
 - Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, 7. with 1/2 inch latch throw capable of UL listing of 3 hours on a 4' x 10' opening. Provide proper latch throw for UL listing at pairs.
 - 8. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
 - Provide independently operating levers with two external return spring cassettes 9. mounted under roses to prevent lever sag.
 - Provide standard ASA strikes unless extended lip strikes are necessary to protect trim. 10.
 - 11. Provide wired electrified options as scheduled in the hardware sets.
 - 12 through 24 volt DC operating capability, auto-detecting a.
 - Selectable EL (fail safe)/EU (fail secure) operating mode via switch on chassis b.
 - C. 0.230A (230mA) maximum current draw
 - d. 0.010A (10mA) holding current
 - Modular / "plug in" request to exit switch
 - 12. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
- D. Exit devices: Von Duprin as scheduled.
 - Provide certificate by independent testing laboratory that device has completed over 1. 1,000,000 cycles and can still meet ANSI/BHMA A156.3 - 2001 standards.
 - 2. All internal parts shall be of cold-rolled steel with zinc dichromate coating.
 - Mechanism case shall have an average thickness of .140". 3.
 - Compression spring engineering. 4.

- 5. Non-handed basic device design with center case interchangeable with all functions.
- 6. All devices shall have quiet return fluid dampeners.
- 7. All latchbolts shall be deadlocking with 3/4" throw and have a self-lubricating coating to reduce friction and wear.
- 8. Device shall bear UL label for fire and or panic as may be required.
- All surface strikes shall be roller type and utilize a plate underneath to prevent movement.
- 10. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.
- 11. Furnish glass bead kits for vision lites where required.
- 12. All Exit Devices to be sex-bolted to the doors.
- 13. Panic Hardware shall comply with CBC Section 11B.404.2.7 and shall be mounted between 34" and 44" above the finished floor surface.
 - a. Provide exit devices UL certified to meet maximum 5 pound requirements according to the California Building Code section 11B-309.4, and UL listed for Panic Exterior Fire Exit Hardware.
- E. Closers: LCN as scheduled. Place closers inside building, stairs, room, etc.
 - Door closer cylinders shall be of high strength cast iron construction with double heat treated pinion shaft to provide low wear operating capabilities of internal parts throughout the life of the installation. All door closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified testing laboratory. A written certification showing successful completion of a minimum of 10,000,000 cycles must be provided.
 - 2. All door closers shall be fully hydraulic and have full rack and pinion action with a shaft diameter of a minimum of 11/16 inch and piston diameter of 1 inch to ensure longevity and durability under all closer applications.
 - 3. All parallel arm closers shall incorporate one piece solid forged steel arms with bronze bushings. 1-9/16" steel stud shoulder bolts, shall be incorporated in regular arms, hold-open arms, arms with hold open and stop built in. All other closers to have forged steel main arms for strength, durability, and aesthetics for versatility of trim accommodation, high strength and long life.
 - 4. All parallel arm closers so detailed shall provide advanced backcheck for doors subject to severe abuse or extreme wind conditions. This advanced backcheck shall be located to begin cushioning the opening swing of the door at approximately 45 degrees. The intensity of the backcheck shall be fully adjustable by tamper resistant non-critical screw valve.
 - 5. Closers shall be installed to permit doors to swing 180 degrees.
 - 6. All closers shall utilize a stable fluid withstanding temperature range of 120 degrees F. to -30 degrees F. without requiring seasonal adjustment of closer speed to properly close the door.
 - 7. Provide the manufactures drop plates, brackets and spacers as required at narrow head rails and special frame conditions. NO wood plates or spacers will be allowed.
 - 8. Maximum effort to operate closers shall not exceed 5 lbs., such pull or push effort being applied at right angles to hinged doors. Compensating devices or automatic door operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the closer may be increased but shall not exceed 15 lbs. when specifically approved by fire marshal. All closers shall be adjusted to operate with the minimum amount of opening force and still close and latch the door. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position. Per 11B-404.2.8.1, door shall take at least 5 seconds to move from an open position of 90 degrees to a position of 12 degrees from the latch jamb.
- F. Flush Bolts & Dust Proof Strikes: Automatic Flush Bolts shall be of the low operating force design. Utilize the top bolt only model for interior doors where applicable and as permitted by testing procedures.
 - 1. Manual flush bolts only permitted on storage or mechanical openings as scheduled.
 - 2. Provide dust proof strikes at openings using bottom bolts.

- G. Door Stops:
 - Unless otherwise noted in Hardware Sets, provide floor type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
 - 2. Do not install floor stops more than four (4) inches from the face of the wall or partition (CBC Section 11B-307).
 - 3. Overhead stops shall be made of stainless steel and non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions.
- H. Protection Plates: Fabricate either kick, armor, or mop plates with four beveled edges. Provide kick plates 10" high and 2" LDW. Sizes of armor and mop plates shall be listed in the Hardware Schedule. Furnish with machine or wood screws of bronze or stainless to match other hardware.
- I. Thresholds: As Scheduled and per details.
 - 1. Thresholds shall not exceed 1/2" in height, with a beveled surface of 1:2 maximum slope.
 - 2. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 "Thermal and Moisture Protection".
 - 3. Use 1/4" fasteners, red-head flat-head sleeve anchors (SS/FHSL).
 - 4. Thresholds shall comply with CBC Section 11B-404.2.5.
- J. Seals: Provide silicone gasket at all rated and exterior doors.
 - Fire-rated Doors, Resilient Seals: UL10C Classified complies with NFPA 80 & NFPA 252. Coordinate with selected door manufacturers' and selected frame manufacturers' requirements.
 - Fire-rated Doors, Intumescent Seals: Furnished by selected door manufacturer.
 Furnish fire-labeled opening assembly complete and in full compliance with UL10C
 Classified complies with NFPA 80 & NFPA 252. Where required, intumescent seals
 vary in requirement by door type and door manufacture -- careful coordination required.
 - 3. Smoke & Draft Control Doors, Provide UL10C Classified complies with NFPA 80 & NFPA 252 for use on "S" labeled Positive Pressure door assemblies.
- K. Door Shoes & Door Top Caps: Provide door shoes at all exterior wood doors and top caps at all exterior out-swing doors.
- L. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where sound or light seals occurs, or for fire-resistive-rated door assemblies.

2.3 KEYING

- A. Furnish a Schlage masterkey system as directed by the owner or architect.
- B. A detailed keying schedule is to be prepared by the owner and/or architect in consultation with a representative of the lock manufacturer. Each keyed cylinder on every keyed lock is to be listed separately showing the door #, key group (in BHMA terminology), cylinder type, finish and location on the door.
- C. Establish a new masterkey system for this project as directed by the keying schedule.
- D. Furnish all cylinders in the Schlage conventional style except the exit device and removable mullion cylinders which will be supplied in Schlage Full Size Interchangeable Core (FSIC). Pack change keys independently (PKI).
- E. Furnish construction keying for doors requiring locking during construction.
- F. Furnish mechanical keys as follows:

- 1. Furnish 2 cut change keys for each different change key code.
- 2. Furnish 1 uncut key blank for each change key code.
- 3. Furnish 6 cut masterkeys for each different masterkey set.
- 4. Furnish 3 uncut key blanks for each masterkey set.
- 5. Furnish 2 cut control keys cut to the top masterkey for permanent I/C cylinders.
- 6. Furnish 1 cut control key cut to each SKD combination.
- G. Furnish Schlage Padlocks and the cylinders to tie them into the masterkey system for gates, storage boxes, utility valve security, roof hatches and roll-up doors keyed as directed in the keying schedule.

2.4 FINISHES

- Generally to be satin chrome US26D (626 on bronze and 652 on steel) unless otherwise noted.
- B. Furnish push plates, pull plates and kick or armor plates in satin stainless steel US32D (630) unless otherwise noted.
- C. Door closers shall be powder-coated to match other hardware, unless otherwise noted.
- D. Aluminum items to be finished anodized aluminum except thresholds which can be furnished as standard mill finish.

2.5 FASTENERS

- A. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.
- B. Screws for butt hinges shall be flathead, countersunk, full-thread type.
- C. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.
- D. Provide expansion anchors for attaching hardware items to concrete or masonry.
- E. All exposed fasteners shall have a phillips head.
- F. Finish of exposed screws to match surface finish of hardware or other adjacent work.
- G. All Exit Devices and Lock Protectors shall be fastened to the door by the means of sex bolts or through bolts.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed by the manufacturer.
- B. Beginning of installation means acceptance of existing conditions.

C. Fire-Rated Door Assembly Inspection: Upon completion of the installation, all fire door assemblies shall be inspected to confirm proper operation of the closing device and latching device and that only the manufacturer's furnished fasteners are used for installation and that it meets all criteria of a fire door assembly per NFPA 80 (Standard for Fire Doors and Other Opening Protectives) 2013 Edition. A written record shall be maintained and transmitted to the Owner to be made available to the Authority Having Jurisdiction (AHJ). The inspection of the swinging fire doors shall be performed by a certified FDAI (Fire Door Assembly Inspector) with knowledge and understanding of the operating components of the type of door being subjected to the inspection. The record shall list each fire door assembly throughout the project and include each door number, an itemized list of hardware set components at each door opening, and each door location in the facility.

3.2 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and requirements of DHI.
- B. Use the templates provided by hardware item manufacturer.
- C. Mounting heights for hardware shall be as recommended by the Door and Hardware Institute. Operating hardware will to be located between 34" and 44" AFF.
- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Set thresholds for exterior doors in full bed of butyl-rubber sealant.
- G. If hand of door is changed during construction, make necessary changes in hardware at no additional cost.
- H. Hardware Installer shall coordinate with security contractor to route cable to connect electrified locks, panic hardware and fire exit hardware to power transfers or electric hinges at the time these items are installed so as to avoid disassembly and reinstallation of hardware.
- I. Hardware Installer shall also be present with the security contractor when the power is turned on for the testing of the electronic hardware applications. Installer shall make adjustments to solenoids, latches, vertical rods and closers to insure proper and secure operation.
- J. All wiring for electro-mechanical hardware mounted on the door shall be connected through the power transfer and terminated in the interface junction box specified for in the Electrical Section.
- K. Conductors shall be minimum 18 gage stranded, multicolored. A minimum 12 in. loop of conductors shall be coiled in the interface junction box. Each conductor shall be permanently marked with its function.
- L. If a power supply is specified in the hardware sets, all conductors shall be terminated in the power supply. Make all connections required for proper operation between the power supply and the electro-mechanical hardware. Provide the proper size conductors as specified in the manufacturer's technical documentation.

3.3 ADJUST AND CLEAN

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Clean adjacent surface soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy, return to that work area and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware finishes, during the final adjustment of hardware.
- E. Continued Maintenance Service: Approximately six months after the completion of the project, the Contractor accompanied by the Architectural Hardware Consultant, shall return to the project and re-adjust every item of hardware to restore proper functions of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.4 HARDWARE LOCATIONS

A. Conform to CCR, Title 24, Part 2; and ADAAG; and the drawings for access-compliant positioning requirements for the disabled.

3.5 FIELD QUALITY CONTROL

A. Contractor is responsible for providing the services of an Architectural Hardware Consultant (AHC) or a proprietary product technician to inspect installation and certify that hardware and its installation have been furnished and installed in accordance with manufacturers' instructions and as specified herein.

3.6 SCHEDULE

- A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.
- B. While the hardware schedule is intended to cover all doors, and other movable parts of the building, and establish type and standard of quality, the contractor is responsible for examining the Plans and Specifications and furnishing proper hardware for all openings whether listed or not. If there are any omissions in hardware groups in regard to regular doors they shall be called to the attention of the Architect prior to bid opening for instruction; otherwise, list will be considered Complete. No extras will be allowed for omissions.
- C. The Door Schedule on the Drawings indicates which hardware set is used with each door.

Manufacturers Abbreviations (Mfr.)

GLY = Glynn-Johnson Corporation
IVE = Ives
LCN = COVERNOR Overhead Door Stops
Hinges, Kick Plates, Door Stops & Silencers
Door Closers

SCE = Schlage Electronics Door Cord

<u>20119-05785</u> Terra Linda High School - Modernization Section 08 71 00

SCH = Schlage Lock Company Locks, Latches & Cylinders

VON = Von Duprin Exit Devices

ZER Zero International Thresholds, Gasketing & Weather-stripping

ALLEGION ID: OPT0141468

GROUP NO. 01

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	CD-PA-AX-98-EO	626	VON
1	EA	RIM CYLINDER	20-057	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	SURFACE CLOSER	4111 AVB EDA	689	LCN
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEAL SET	WEATHERSTRIP BY		
			DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	39A	Α	ZER
1	EA	THRESHOLD	PER DETAIL	Α	ZER

GROUP NO. 02

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	DBL CYL STORE LOCK	ND66P6D RHO	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	FLOOR STOP	FS439	682	IVE
1	SET	SEAL SET	WEATHERSTRIP BY		
			DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	153A	Α	ZER
1	EA	THRESHOLD	PER DETAIL	Α	ZER

GROUP NO. 03

2	EA	CONT. HINGE	112XY	628	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	PANIC HARDWARE	CD-PA-AX-98-EO	626	VON
1	EA	RIM CYLINDER	20-057	626	SCH
1	EA	MORTISE CYLINDER	26-091	626	SCH
2	EA	MORTISE CYLINDER	26-091 XQ11-948	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4111 AVB EDA	689	LCN
1	SET	SEAL SET	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		
2	EA	DOOR SWEEP	39A	Α	ZER
1	EA	THRESHOLD	PER DETAIL	Α	ZER

GROUP NO. 04

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM SECURITY	ND75P6D RHO XN12-035	626	SCH
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CCV	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

GROUP NO. 05

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CD-PA-AX-98-EO	626	VON
1	EA	ELEC PANIC HARDWARE	SD-EL-PA-AX-98-EO 24 VDC	626	VON
1	EA	RIM CYLINDER	20-057	626	SCH
1	EA	MORTISE CYLINDER	26-091	626	SCH
2	EA	MORTISE CYLINDER	26-091 XQ11-948	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4111 AVB EDA	689	LCN
1	SET	SEAL SET	WEATHERSTRIP BY		
			DOOR/FRAME MANUFACTURER		
2	EA	DOOR SWEEP	39A	Α	ZER
1	EA	THRESHOLD	PER DETAIL	Α	ZER
1	EA	POWER SUPPLY	PS914 900-2RS 120/240VAC		VON
			CARD READER - WORK OF		
			DIVISION 28		

GROUP NO. 06

1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	SD-EL-PA-AX-98-EO 24 VDC	626	VON
1	EA	RIM CYLINDER	20-057	626	SCH
1	EA	MORTISE CYLINDER	26-091 XQ11-948	626	SCH
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	SURFACE CLOSER	4111 AVB EDA	689	LCN
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEAL SET	WEATHERSTRIP BY		
			DOOR/FRAME MANUFACTURER		
1	EA	DOOR SWEEP	39A	Α	ZER
1	EA	THRESHOLD	PER DETAIL	Α	ZER
1	EA	POWER SUPPLY	PS914 900-2RS 120/240VAC		VON
			CARD READER - WORK OF		
			DIVISION 28		

GROUP NO. 07

1	EA	DOOR CORD	788C-18 WITH 20 GAUGE WIRES	626	SCE
1	EA	ELEC PANIC HARDWARE	SD-EL-PA-AX-98-EO 24 VDC	626	VON
1	EA	POWER SUPPLY	PS914 900-2RS 120/240VAC		VON
			CARD READER - WORK OF		
			DIVISION 28		
			BALANCE OF HARDWARE		
			EXISTING TO REMAIN		

END OF SECTION