URBANDALE HIGH AND WEBSTER ELEMENTARY RENOVATION

URBANDALE COMMUNITY SCHOOL DISTRICT

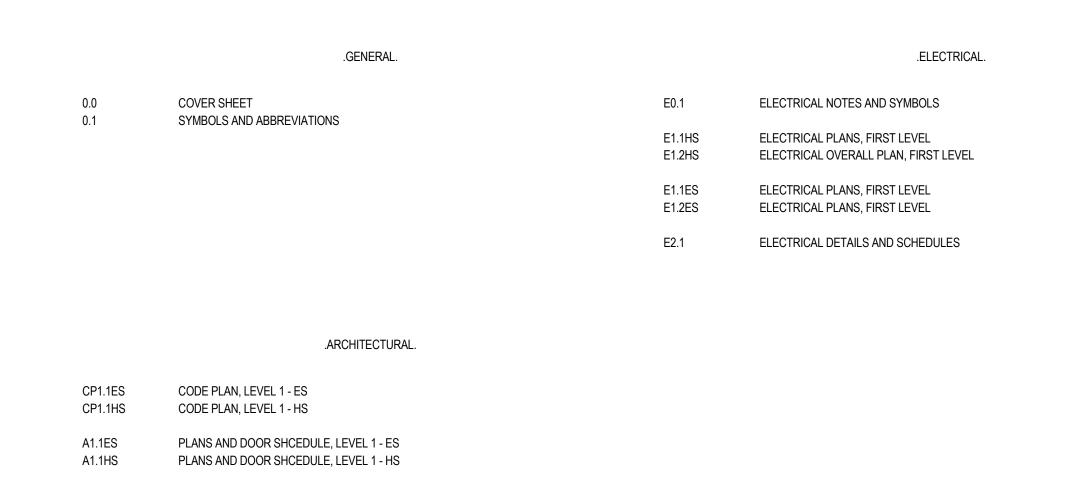
711 Aurora Ave Urbandale, IA 50323

12955 Aurora Ave Urbandale, IA 50323

COMBINED CONTRACT

INDEX OF DRAWINGS

MARCH 25, 2019



DESIGN DEVELOPMENT SUBMITTAL NOT FOR CONSTRUCTION

COVER SHEET

DESIGN

DEVELOPMEN

## 1								
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Part	# \\DDI\I		FWC	ELECTRIC WATER COOLER	NΕΡΔ	NATIONAL FIRE PROTECTION ASSOCIATION	IIR	ΙΙΡΙΝΔΙ
		AND	EXIST	EXISTING	NIC	NOT IN CONTRACT	US	UTILITY SHELF
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			EXT	EXTERIOR	NWC	NORMAL WEIGHT CONCRETE		
			F F.O.					
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Mart	ADA	AMERICANS WITH DISABILITY ACT	FB	FACE BRICK	OFF	OFFICE	VOC	VOLIITILE ORGANIC COMPOUND
Manufact								
Mathematical	AEC	AUTOMATED EXTERNAL DEFIBRILLATIORS	FF	FINISH FLOOR	OTB	OPEN TO BELOW		
			FHC	FIRE HOSE CABINET				WIDE
					Р	PAINT		
Column	ALT							
Manufact	ANCH	ANCHOR	FLASH	FLASHING	PB	PARTICLE BOARD	WC	WALL COVERING
Model								
Mathematical Math								
March Marc	ARCH	ARCHITECTURAL	FO	FINISH OPENING	PENT	PENTHOUSE	WG	POLISHED WIRE GLASS
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Manufactor Man	R O	ROTTOM OF						
	BCS	BABY CHANGING STATION	FR	FIRE RESISTANT	PL	PROPERTY LINE		
	BLDG	BUILDING	FRT	FIRE RESISTANCE TREATED	PLAM	PLASTIC LAMINATE	VU	YARD
Author Company Comp								
Prof. Prof	вот	воттом	FUT	FUTURE	PROJ	PROJECT(OR) (ION)		
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SAMP					QT	QUARRY TILE		
Commons								
The content	CBD	CHALKBOARD	GFA	GROSS FLOOR AREA				
전변			GL					
Commonwealth								
Company	CG	CLEAR FLOAT GLASS	GR	GUARD RAIL	RD	ROOF DRAIN		
Company	CIG	CLEAR INSULATING GLASS	GRS	GALVANIZED RIGID STEEL	REFL	REFLECTED		
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MEDICINE CABINET

MECHANICAL

MEMBRANE

MEZZANINE

MANHOLE

MINIMUM

MOUNTED

MOUNTING

MULLION

NORTH

NOT APPLICABLE

NOISE CRITERIA

MANUFACTURER

MISCELLANEOUS

MIRROR WITH SHELF

MECH

MEMB

MEZZ

TILT MIRROR UNIT

TOP OF PAVING

TRANSVERSE TERRAZZO TILE

TACK WALL

UNEXCAVATED

UNFINISHED

TYPICAL

TMR

TOP

TTG

TTIG

UNEX

UNFIN

UNO

TENANT IMPROVEMENT

TINTED INSULATING GLASS

TOILET TISSUE DISPENSER

TINTED TEMPERED FLOAT GLASS
TINTED TEMPERED INSULATING GLASS

UNDERWRITERS LABORATORIES

UNLESS NOTED OTHERWISE

ELEVATION

ELASTOMERIC

ELECTRICAL

EMERGENCY

ENCLOSURE

ENGINEER

ENTRANCE

EQUIPMENT

EQUIVALENT

EACH WAY

EPOXY RESIN FLOORING

ENERGY USE INTENSITY

EQUAL

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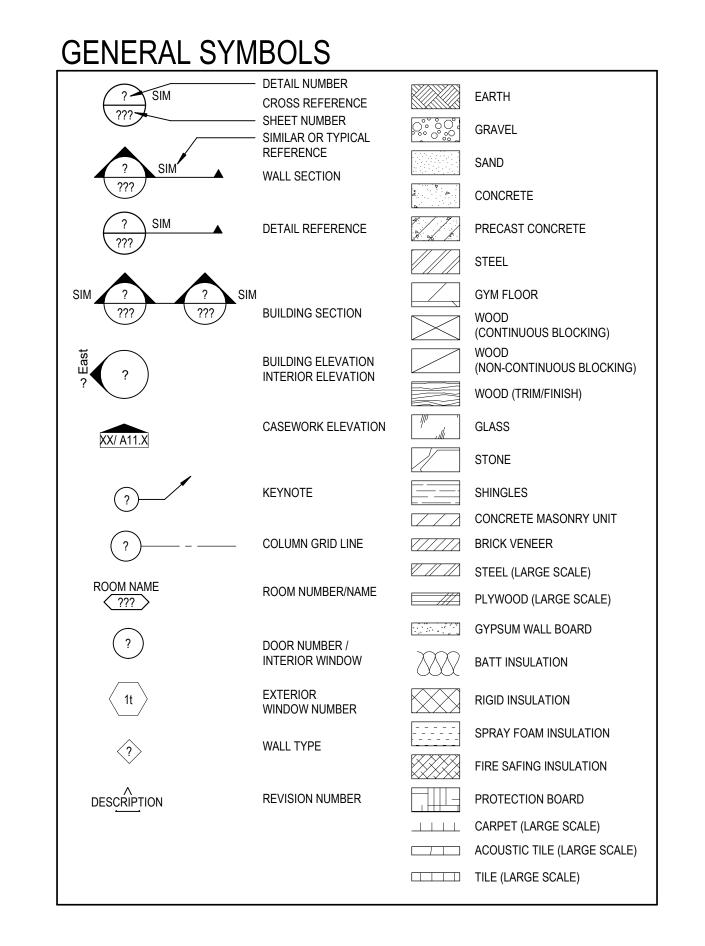
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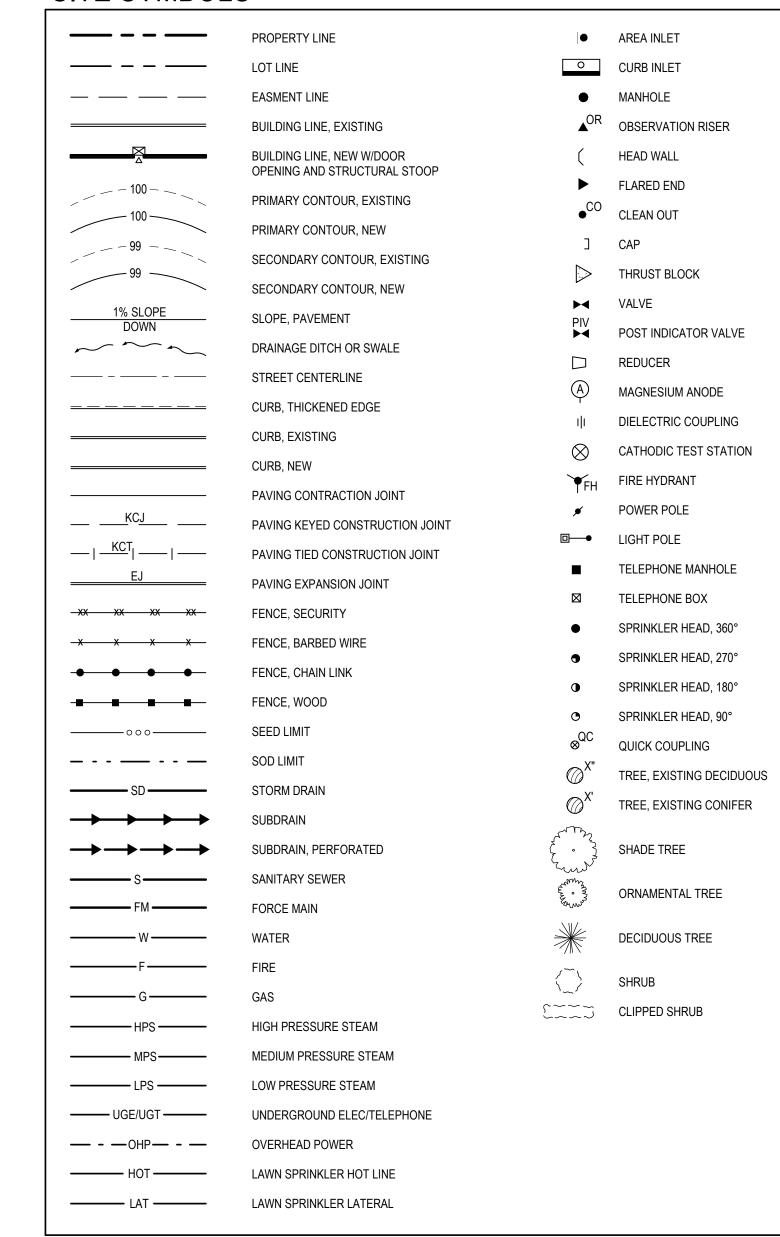
EQUIV

EUI

EXPANSION JOINT



SITE SYMBOLS



APPLICABLE CODES

SYMBOL LEGEND #### - OCCUPANCY LOAD

- ACCESSORY USE AREA (OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)

0 - COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR - TOTAL EXIT CAPACITY OF DOOR OR STAIR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDHT IN INCHES DIVIDED BY 0.2 THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS WIDTH IN INCHES DIVIDED BY 0.3)

0 - COMBINED OCCUPANT LOAD AT A GIVEN DOOR. (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD) 0 - TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)

PD - PANIC DEVICE XX MIN - DOOR FIRE RATING

WALL SEPARATION LEGEND

	<u>v v</u>	<u> </u>		HON LEGEND	•	
I	WAI	L HC	OURLY RATING		WALL FI	RE RATING TYPE
	0	=	0 HOUR		C =	CORRIDOR
	1/2	=	1/2 HOUR		EW =	EXTERIOR WALL
	1	=	1 HOUR		FB =	FIRE BARRIER
	2	=	2 HOUR		FP =	FIRE PARTITION
	3	=	3 HOUR		FSB =	FIRE/SMOKE BARF
	SP	=	SMOKE PARTITION		FW =	FIRE WALL
	SW	=	SMOKE WALL		HX =	HORIZONTAL EXIT
					SB =	SMOKE BARRIER
					VS =	VERTICAL SHAFT
					VX =	VERTICAL EXIT
					XP =	EXIT PASSAGEWA

SEPARATION LEGEND

2-HOUR FIRE WALL (2-FW) (--2-FW---2-FW--)

A. 2-HOUR FIRE-RESISTIVE SEPARATION CONTINUOUS FROM EXTERIOR WALL TO EXTERIOR WALL AND EXTENDING A MINIMUM OF 18 INCHES BEYOND THE EXTERIOR WALL. WALL SHALL HAVE SUFFICIENT STRUCTURAL STABILITY UNDER FIRE CONDITIONS TO ALLOW COLLAPSE OF CONSTRUCTION ON EITHER SIDE WITHOUT COLLAPSE OF THE WALL FOR THE DURATION OF THE TIME INDICATED BY THE FIRE RESISTANCE RATING OF THE WALL (FIRE WALL ONLY, SEE 706.5 FOR EXCEPTIONS), WITH 1-1/2 HOUR LABELED AUTOMATIC-CLOSING OR SELF-CLOSING OPENING PROTECTION. AUTOMATIC-CLOSING DOORS AND ALL LABELED ROLL-UP DOORS LOCATED IN CORRIDOR WALLS. LABELED SWINGING DOORS LOCATED IN FW AND FB CORRIDOR WALLS AND FB AND FW USED AS A HORIZONTAL EXIT SHALL HAVE S-D-A MAGNETIC HOLD-OPEN DEVICES OR SHALL BE SELF-CLOSING. 1-1/2 HOUR RATED S-D-A SMOKE DAMPER REQUIRED AT ALL DUCT PENETRATIONS SERVING BOTH SIDES OF FB AND FW. ALL S-D-A AUTOMATIC-CLOSING DOORS AND SMOKE DAMPERS SHALL BE ACTIVATED BY ACTUATION OF ANY FIRE ALARM DEVICE OR SPRINKLER SYSTEM AND POWER FAILURE.

B. DOORS MAY HAVE 100 SQUARE-INCH LABELED 1/4-INCH LAMINATED WIRE GLASS PANELS WITH A MAXIMUM SIDE DIMENSION PER DOOR MANUFACTURER'S TEST.

C. SEAL AROUND ALL DUCTS WITHOUT FIRE AND/OR SMOKE DAMPERS, PIPES AND CONDUIT PENETRATIONS WITH UL CLASSIFIED FIRE STOP SYSTEM (SAFING INSULATION AND SEALANT). FIRE AND/OR SMOKE DAMPERS AT DUCT PENETRATIONS SHALL BE MOUNTED AND SEALED IN WALL WITH FACTORY FABRICATED SLEEVES AND PERIMETER MOUNTING ANGLES. SEAL TOP OF WALL TO FLOOR OF ROOF DECK WITH UL CLASSIFIED FIRESTOP SYSTEM (SAFING INSULATION WITH CONTINUOUS SEALANT AT JOINTS AS DETAILED AND AS SPECIFIED IN SECTION 078413 PENETRATION FIRESTOPPING).

THE BUILDING SYSTEMS WILL BE DESIGNED IN ACCORDANCE WITH THE CURRENT APPLICABLE CODES AS FOLLOWS:

INTERNATIONAL BUILDING CODE - 2012 (IBC) INTERNATIONAL EXISTING BUILDING CODE - 2012 (IEBC) INTERNATIONAL FIRE CODE - 2012 (IFC) INTERNATIONAL MECHANICAL CODE - 2015 (IMC)

NATIONAL ELECTRICAL CODE - 2014 (NEC) INTERNATIONAL PLUMBING CODE - 2012 (IPC) WITH IOWA PROVISIONS FOR 2012 UPC IOWA ADMINISTRATIVE CODE 641-25

INTERNATIONAL ENERGY CONSERVATION CODE - 2012 STATE CODES

IOWA STATE BUILDING CODE, IAC 661-CHAPTER 301 (2006) (APPLICABLE ONLY FOR STATE OWNED CONSTRUCTION, PROJECTS FUNDED WITH STATE FUNDS AND

WHERE LOCAL JURISDICTIONS HAVE FORMALLY ADOPTED.)

STATE OF IOWA ACCESSIBILITY RULES AND REGULATIONS, IAC IAC-CHAPTER 302 (2006)

STATE OF IOWA FIRE SAFETY RULES, IAC 661-CHAPTER 200

STATE OF IOWA BUILDING CODE THERMAL AND LIGHTING EFFICIENCY STANDARDS - IAC 661 CHAPTER 303

STATE OF IOWA MINIMUM TOILET FACILITY STANDARD, IAC 641-CHAPTER 25 ENFORCED BY THE OFFICE OF STATE FIRE MARSHAL AND DEPARTMENT OF PUBLIC HEALTH.

AMERICANS WITH DISABILITIES ACT (ADA)

ADA IS APPLICABLE TO THIS BUILDING UNDER TITLE II AS A PUBLIC ENTITY. TITLE II OF THE ADA SPECIFICALLY REFERS TO ANY STATE OR LOCAL GOVERNMENT SERVICES. THEREFORE, A SCHOOL IS CONSIDERED A

AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES - 2010 (ADA) (THESE REGULATIONS ARE ENFORCED BY THE U.S. JUSTICE DEPARTMENT)

OCCUPANT LOAD FACTORS:

100 SF PER OCCUPANT (GROSS) 300 SF PER OCCUPANT (GROSS) STORAGE/MECHANICAL EXERCISE ROOMS 50 SF PER OCCUPANT (GROSS) LOCKER ROOMS 50 SF PER OCCUPANT (GROSS)

BUILDING DATA: NO CHANGE TO BUILDING DATA IN THIS PROJECT NO CHANGE TO OCCUPANCY, USE, CONSTRUCTION, FIRE PROTECTION, OR EXITING

NAME OF BUILDING WEBSTER ELEMENTARY SCHOOL 12955 AURORA AVE., URBANDALE, IOWA 50323 ADDRESS **ELEMENTARY SCHOOL** CODE ENFORCEMENT JURISDICTION CITY OF URBANDALE

OCCUPANCY GROUP **EDUCATIONAL E** MIXED USE UNSEPARATED AUTOMATIC SUPPRESSION SPRINKLED THROUGHOUT UNPROTECTED, NON-COMBUSTIBLE, TYPE 2B CONSTRUCTION TYPE

FIRE RESISTANCE RATINGS FOR **BUILDING ELEMENTS**

STRUCTURAL FRAME BEARING WALLS - EXTERIOR BEARING WALLS - INTERIOR NON-BEARING WALLS - EXTERIOR NON-BEARING - INTERIOR FLOOR CONSTRUCTION ROOF CONSTRUCTION

31'-4", 1 STORY

BUILDING HEIGHT / STORIES LIFE SAFETY SYSTEMS

EXITING REQUIREMENTS

EMERGENCY LIGHTING AND EXIT SIGNAGE FIRE ALARM SYSTEM, NFPA 72 FIRE EXTINGUISHERS, NFPA 10

AUTOMATIC SPRINKLER SYSTEM, NFPA 13 DEAD END CORRIDOR MAXIMUM CONDITION COMMON PATH OF TRAVEL MAX DISTANCE MAXIMUM TRAVEL DISTANCE

EGRESS WIDTH FACTOR PER OCCUPANT 0.2 INCHES PER PERSON (2012 IBC, SECTION 1005.3.2)

MEDIA CENTER_ B108 2HR RATED FIRE WALL CONTINUIOUS FROM OUTSIDE WALL TO OUTSIDE WALL WITH RATED OPENINGS -

CODE PLAN, LEVEL 1

SCALE: 1/16" = 1'-0"

DESIGN DEVELOPMENT Issue Date Revisions

11-18101-30 CODE PLAN, LEVEL 1 - ES

CP1.1ES

IOWA STATE BUILDING CODE, IAC 661-CHAPTER 301 (2006) (APPLICABLE ONLY FOR STATE OWNED CONSTRUCTION, PROJECTS FUNDED WITH STATE FUNDS AND WHERE LOCAL JURISDICTIONS HAVE FORMALLY ADOPTED.)

STATE OF IOWA ACCESSIBILITY RULES AND REGULATIONS, IAC IAC-CHAPTER 302 (2006)

STATE OF IOWA FIRE SAFETY RULES, IAC 661-CHAPTER 200

STATE OF IOWA BUILDING CODE THERMAL AND LIGHTING EFFICIENCY STANDARDS - IAC 661 CHAPTER 303

STATE OF IOWA MINIMUM TOILET FACILITY STANDARD, IAC 641-CHAPTER 25

ENFORCED BY THE OFFICE OF STATE FIRE MARSHAL AND DEPARTMENT OF PUBLIC HEALTH. AMERICANS WITH DISABILITIES ACT (ADA)

ADA IS APPLICABLE TO THIS BUILDING UNDER TITLE II AS A PUBLIC ENTITY. TITLE II OF THE ADA SPECIFICALLY REFERS TO ANY STATE OR LOCAL GOVERNMENT SERVICES. THEREFORE, A SCHOOL IS CONSIDERED A

AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES - 2010 (ADA) (THESE REGULATIONS ARE ENFORCED BY THE U.S. JUSTICE DEPARTMENT)

OCCUPANT LOAD FACTORS:

ADDRESS

BUILDING ELEMENTS

BUILDING HEIGHT / STORIES

100 SF PER OCCUPANT (GROSS) 300 SF PER OCCUPANT (GROSS) STORAGE/MECHANICAL 50 SF PER OCCUPANT (GROSS) EXERCISE ROOMS LOCKER ROOMS 50 SF PER OCCUPANT (GROSS)

NO CHANGE TO BUILDING DATA IN THIS PROJECT
NO CHANGE TO OCCUPANCY, USE, CONSTRUCTION,
FIRE PROTECTION, OR EXITING BUILDING DATA:

NAME OF BUILDING URBANDALE HIGH SCHOOL 7111 AURORA AVE., URBANDALE, IOWA 50322 HIGH SCHOOL CODE ENFORCEMENT JURISDICTION CITY OF URBANDALE

OCCUPANCY GROUP **EDUCATIONAL E** MIXED USE UNSEPARATED AUTOMATIC SUPPRESSION SPRINKLED THROUGHOUT UNPROTECTED, NON-COMBUSTIBLE, TYPE 2B CONSTRUCTION TYPE FIRE RESISTANCE RATINGS FOR

> STRUCTURAL FRAME BEARING WALLS - EXTERIOR BEARING WALLS - INTERIOR NON-BEARING WALLS - EXTERIOR NON-BEARING - INTERIOR FLOOR CONSTRUCTION ROOF CONSTRUCTION

EMERGENCY LIGHTING AND EXIT SIGNAGE FIRE ALARM SYSTEM, NFPA 72 LIFE SAFETY SYSTEMS FIRE EXTINGUISHERS, NFPA 10 AUTOMATIC SPRINKLER SYSTEM, NFPA 13

EXITING REQUIREMENTS DEAD END CORRIDOR MAXIMUM CONDITION COMMON PATH OF TRAVEL MAX DISTANCE MAXIMUM TRAVEL DISTANCE EGRESS WIDTH FACTOR PER OCCUPANT 0.2 INCHES PER PERSON

(2012 IBC, SECTION 1005.3.2)

32'-8", 2 STORIES

GENERAL OFFICE

SYMBOL LEGEND

- OCCUPANCY LOAD

PD - PANIC DEVICE

WALL HOURLY RATING

0 = 0 HOUR1/2 = 1/2 HOUR

1 = 1 HOUR

2 = 2 HOUR

3 = 3 HOUR

XX MIN - DOOR FIRE RATING

- ACCESSORY USE AREA

(OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)

- COMBINED OCCUPANT LOAD AT A GIVEN DOOR. (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD)
 - TOTAL EXIT CAPACITY OF DOOR

EW = EXTERIOR WALL

FP = FIRE PARTITION

FSB = FIRE/SMOKE BARRIER

FB = FIRE BARRIER

WALL FIRE RATING TYPE

SB = SMOKE BARRIER

VS = VERTICAL SHAFT VX = VERTICAL EXIT

XP = EXIT PASSAGEWAY

- COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR
 TOTAL EXIT CAPACITY OF DOOR OR STAIR

 (THE CAPACITY OF DOORS ARE RETERMINED AS FOLLOWS).

CLEAR OPENING WIDHT IN INCHES DIVIDED BY 0.2 THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS

CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)

SP = SMOKE PARTITION FW = FIRE WALL SW = SMOKE WALL HX = HORIZONTAL EXIT

WIDTH IN INCHES DIVIDED BY 0.3)

WALL SEPARATION LEGEND

(THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS:

(THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS:

CODE PLAN, LEVEL 1

SCALE: 1/16" = 1'-0"

DESIGN DEVELOPMENT 03-20-2019 Revisions

11-18101-30 CODE PLAN, LEVEL 1 - HS

CP1.1HS

FLOOR PLAN, LEVEL 1 - ES

SCALE: 1/8" = 1'-0"

DEMO PLAN, LEVEL 1 - ES

SCALE: 1/8" = 1'-0"

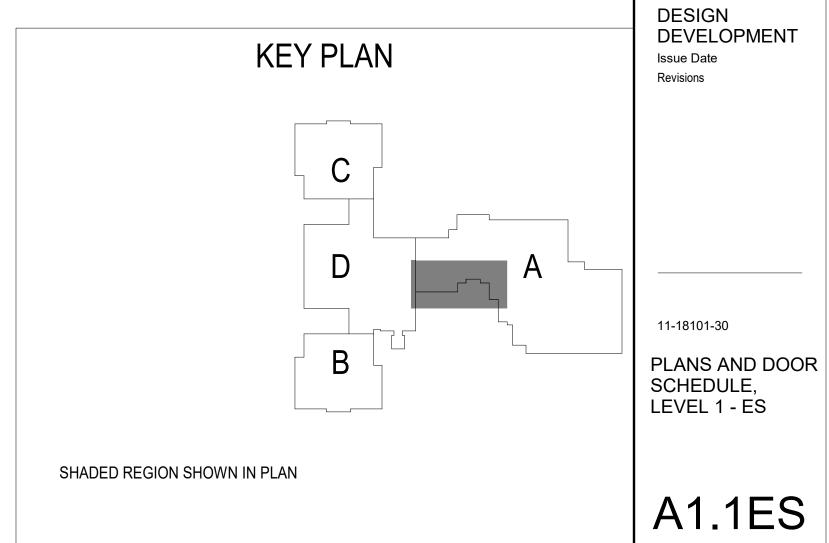
	PANEL						FRAME					DETAILS					
NUMBER	NO. OF PANELS	WIDTH	HEIGHT	THICKNESS	MATERIAL	GLASS	TYPE	DEPTH	MATERIAL	TYPE	FIRE YPE RATING	HARDWARE SET	HEAD	JAMB LEFT	JAMB RIGHT	SILL	COMMENTS
A101A	2	3' - 0"	7' - 0"	2"	GLASS (1)			4 1/2"	ALUM								
A101B	2	3' - 0"	7' - 0"	2"	GLASS (1)			4 1/2"	ALUM								
A101C	2	3' - 0"	7' - 0"	2"	GLASS (1)			4 1/2"	ALUM								
A101D	2	3' - 0"	7' - 0"	2"	GLASS (1)			4 1/2"	ALUM								
A101E	1	3' - 0"	7' - 0"	1 3/4"	HM			5 3/4"	НМ								
4104A	1	3' - 0"	7' - 0"	1 3/4"	HM			5 3/4"	НМ								

DOOR AND FRAME SCHEDULE GENERAL NOTES

- A. ALL HOLLOW METAL FRAMES SET IN MASONRY AND CONCRETE WALLS SHALL BE GROUTED SOLID. SEE DETAIL XX/AX.X FOR GROUTING EXTERIOR DOOR FRAMES WITH SECURITY/ACCESS
- FURTHER REQUIREMENTS. B. ALL HOLLOW METAL FRAMES SET IN METAL STUD WALLS SHALL BE FILLED WITH MINERAL WOOL BLANKET INSULATION. C. ALL EXTERIOR FRAMES SHALL BE INSTALLED WITH 1/4" SHIM AND
- SEALANT AROUND PERIMETER OF FRAME. D. MASONRY LINTELS AND STEEL LINTELS ARE SHOWN ON STRUCTURAL DRAWINGS.

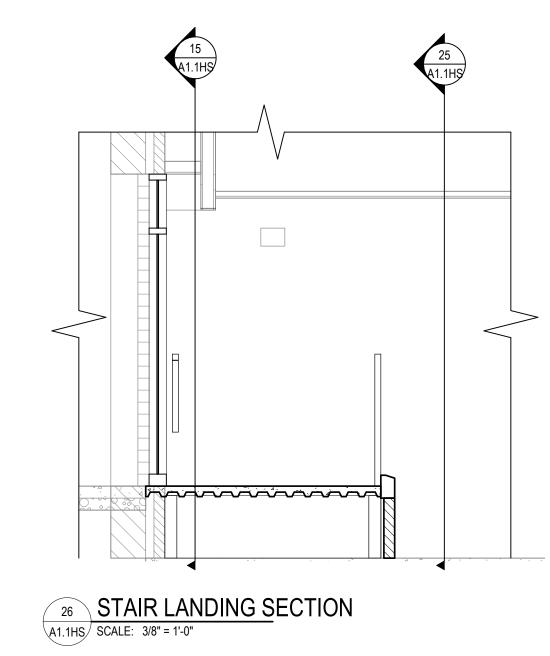
FACULTY LOUNGE B105

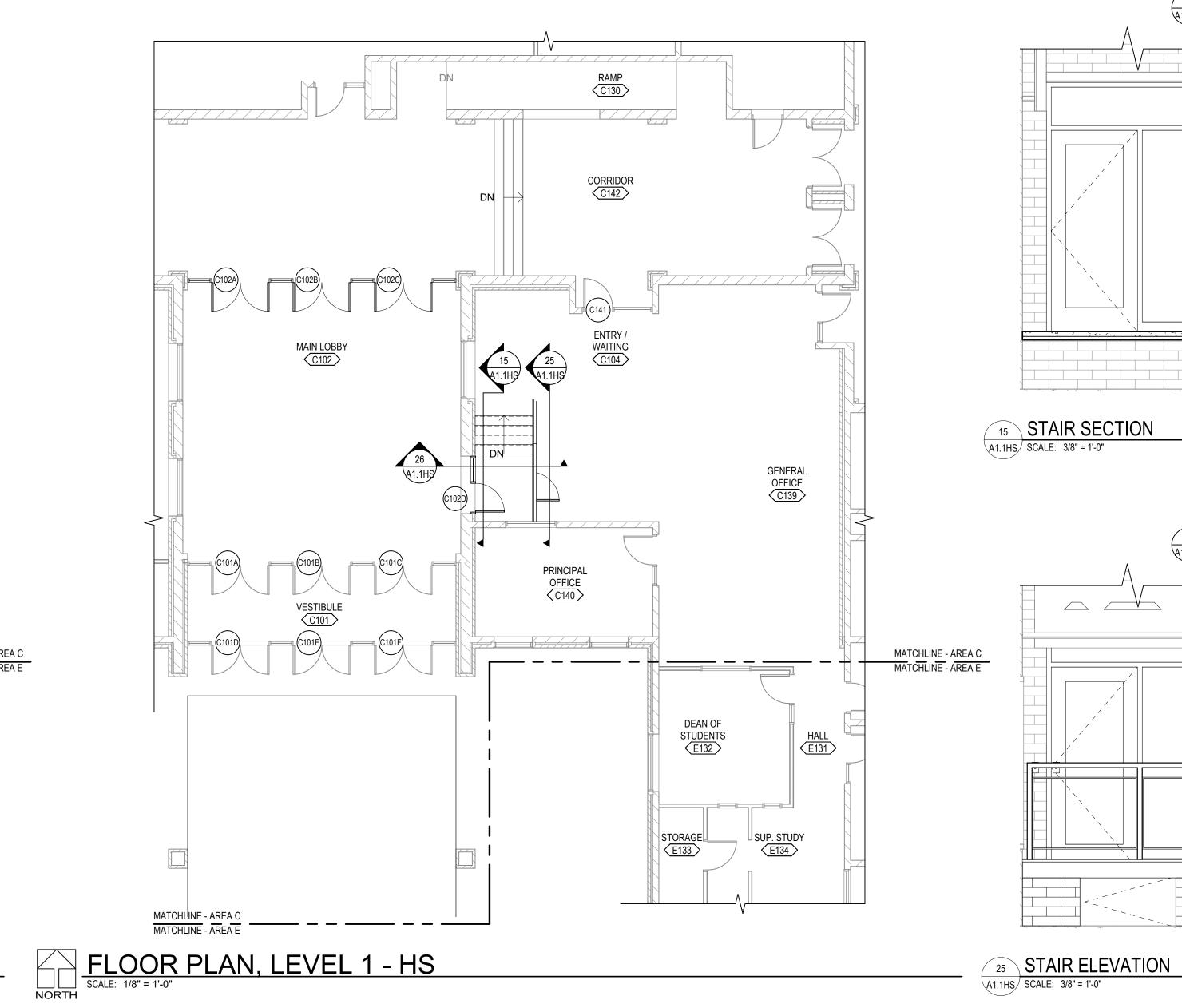
- E. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS OR IN
- THE SPECIFICATIONS. F. EXTERIOR FRAME TYPES ARE INDICATED WITH THE HEXAGON
- G. FOR COILING DOORS, GRILLES AND SECTIONAL DOORS, WIDTH AND HEIGHT DIMENSIONS SHOWN IN DOOR AND FRAME SCHEDULE REPRESENT FINISHED OPENING SIZE. CONTRACTOR TO COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER.
- H. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE AND DEVICES. I. PROVIDE HEAD RECEIVERS AT ALUMINUM STOREFRONTS AND
- CURTAIN WALLS AS REQUIRED FOR STRUCTURAL DEFLECTION ALLOWANCE. J. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.



PRINCIPAL OFFICE A118



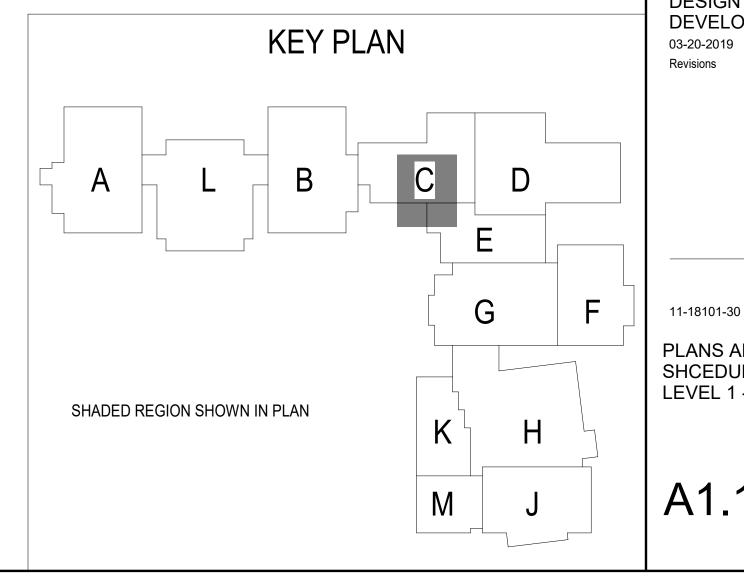




DOOR AND FRAME SCHEDULE COMMENTS 4 1/2" ALUM 5 3/4" HM 5 3/4" HM C101B C101C GLASS (1) GLASS (1) C101D C101E C101F C102A C102B GLASS (1) 7' - 0" GLASS (1) GLASS (1) GLASS (1) GLASS (1) C102C C102D C102E GLASS (1) 7' - 0" 1' - 8" ALUM

DOOR AND FRAME SCHEDULE **GENERAL NOTES**

- A. ALL HOLLOW METAL FRAMES SET IN MASONRY AND CONCRETE WALLS SHALL BE GROUTED SOLID. SEE DETAIL XX/AX.X FOR GROUTING EXTERIOR DOOR FRAMES WITH SECURITY/ACCESS CONTROL HARDWARE AND SPECIFICATION SECTION 081113 FOR
- FURTHER REQUIREMENTS. B. ALL HOLLOW METAL FRAMES SET IN METAL STUD WALLS SHALL BE FILLED WITH MINERAL WOOL BLANKET INSULATION. C. ALL EXTERIOR FRAMES SHALL BE INSTALLED WITH 1/4" SHIM AND SEALANT AROUND PERIMETER OF FRAME.
- D. MASONRY LINTELS AND STEEL LINTELS ARE SHOWN ON STRUCTURAL DRAWINGS. E. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS OR IN
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- G. FOR COILING DOORS, GRILLES AND SECTIONAL DOORS, WIDTH AND HEIGHT DIMENSIONS SHOWN IN DOOR AND FRAME SCHEDULE REPRESENT FINISHED OPENING SIZE. CONTRACTOR TO
- COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER. H. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE
- AND DEVICES. I. PROVIDE HEAD RECEIVERS AT ALUMINUM STOREFRONTS AND CURTAIN WALLS AS REQUIRED FOR STRUCTURAL DEFLECTION
- ALLOWANCE. J. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.



RECEPTION/CAREER
CENTER
C112

DEMO PLAN, LEVEL 1 - HS

SCALE: 1/8" = 1'-0"

SCHOOL STORE C131

GENERAL OFFICE C139

DEAN OF STUDENTS E132

MATCHLINE - AREA C MATCHLINE - AREA E

DESIGN DEVELOPMENT

Revisions

11-18101-30

PLANS AND DOOR SHCEDULE, LEVEL 1 - HS

A1.1HS

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CON'NOT FOR

Consultant Log

Project Logo

D WEBSTER ATIONS

URBANDALE HIGH AND WE
ELEMENTARY RENOVATIC

DESIGN DEVELOPMENT 03-20-2019 Revisions

11-18101-30

ELECTRICAL
NOTES AND
SYMBOLS

E0.1

IN WORK, CONDUIT, 120V POWER, INSTALLATION, AND WIRING OF PUSHBUTTON OPERATORS (34" AFF) PER MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH

8. PROVIDE 120V POWER BRANCH-CIRCUIT CONNECTION TO SPARE 20A/1P BREAKER IN EXISTING PANEL NL1C5 (OR PANEL NL1C6). SEE ELECTRICAL OVERALL PLAN FOR

LOCATION OF EXISTING PANEL. ROUTE (2) #10 + (1) #10 GND IN 3/4" C (CONDUCTORS UPSIZED TO REDÚCE VOLTAGE DROP). FIELD-VERIFY TO DETERMINE CIRCUIT ROUTING AND ALL OTHER REQUIREMENTS PRIOR TO BIDDING.

9. PROVIDE ROUGH-IN ONLY FOR SEMI-RECESSED MOUNTED BATTERY-POWERED WIRELESS OPERATOR PUSHBUTTON

(NO WIRING BETWEEN OPERATOR AND MOTOR).

CAPSULE DISPLAY (BENEATH STAIR LANDING).

10. EXTEND EXISTING 120V RECEPTACLE POWER BRANCH-CIRCUIT TO NEW LIGHTING FIXTURE LOCATED INSIDE TIME

11. SEE SHEET E2.1 FOR AUDIO-VIDEO DOOR ENTRY SYSTEM

COORDINATE WITH OWNER'S I.T. DIRECTOR PRIOR TO

EACH DOOR. COORDINATE WITH SECURITY DOOR ACCESS

3. REMOVE EXISTING DOOR ENTRY SYSTEM AND TURN OVER TO OWNER. PATCH WALL TO MATCH SURROUNDING.
COORDINATE PATCH-WORK WITH PRIME CONTRACTOR AND

12. THIS DOOR (OR SET OF DOORS) SHALL INCLUDE ELEC PROVISIONS FOR SECURITY ACCESS CONTROL AND MONITORING. REFER TO DETAIL 1/E2.1 AND DIVISION 8 SPECIFICATIONS FOR APPLICABLE HARDWARE SETS AT

CONTROL CONTRACTOR PRIOR TO ROUGH-IN.

DIAGRAM. COORDINATE WITH OWNER PRIOR TO ROUGH-IN TO DETERMINE EXACT LOCATIONS FOR DOOR ENTRY MASTER STATIONS, DOOR STATIONS, AND OTHER SYSTEM COMPONENTS. INSTALL NEW TELECOM OUTLET TO ACCOMMODATE COMMUNICATIONS CABLING OR USE EXISTING OUTLET, IF AVAILABLE. FIELD-VERIFY AND

DOOR ASSIST CONTRACTOR.

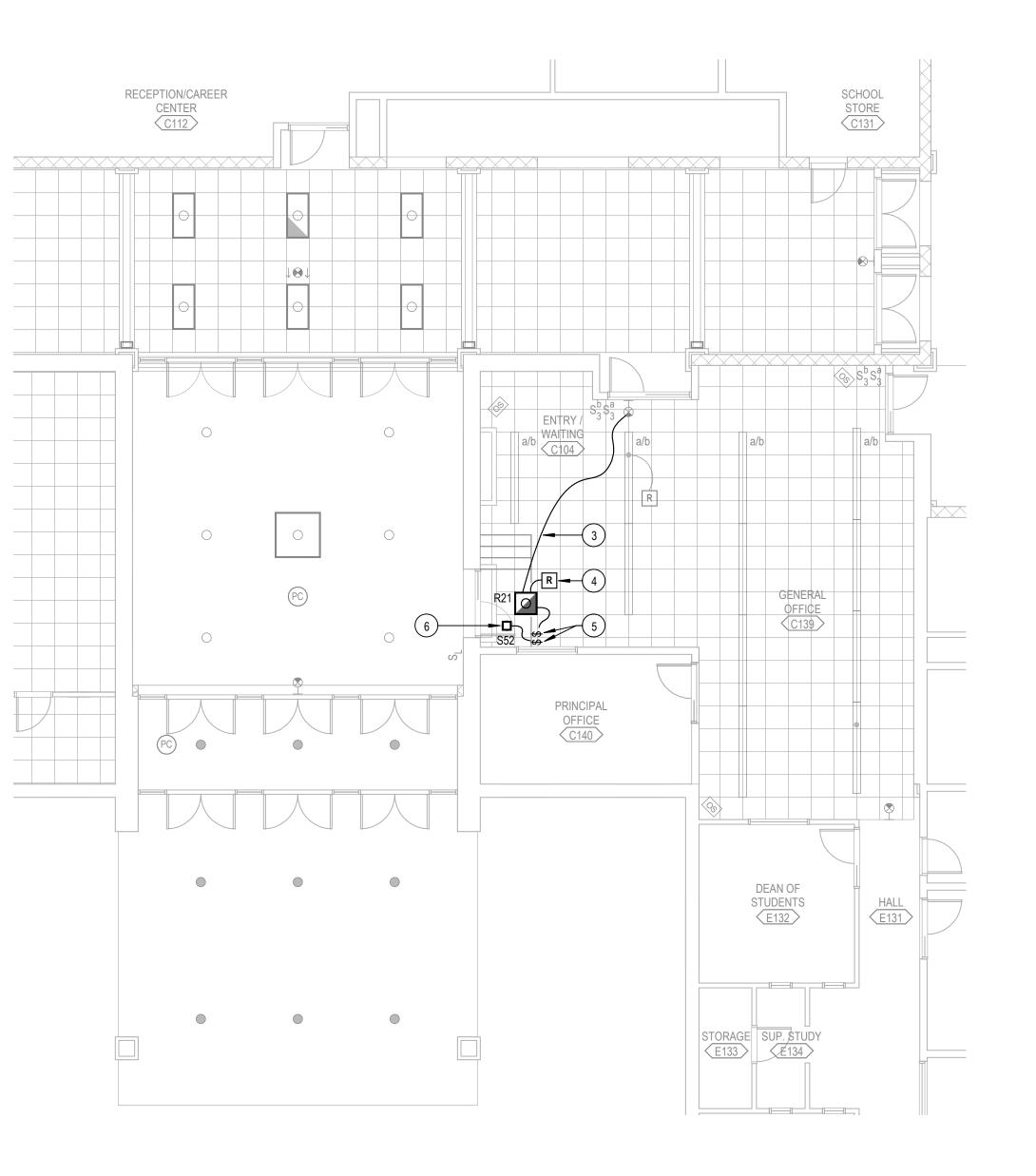
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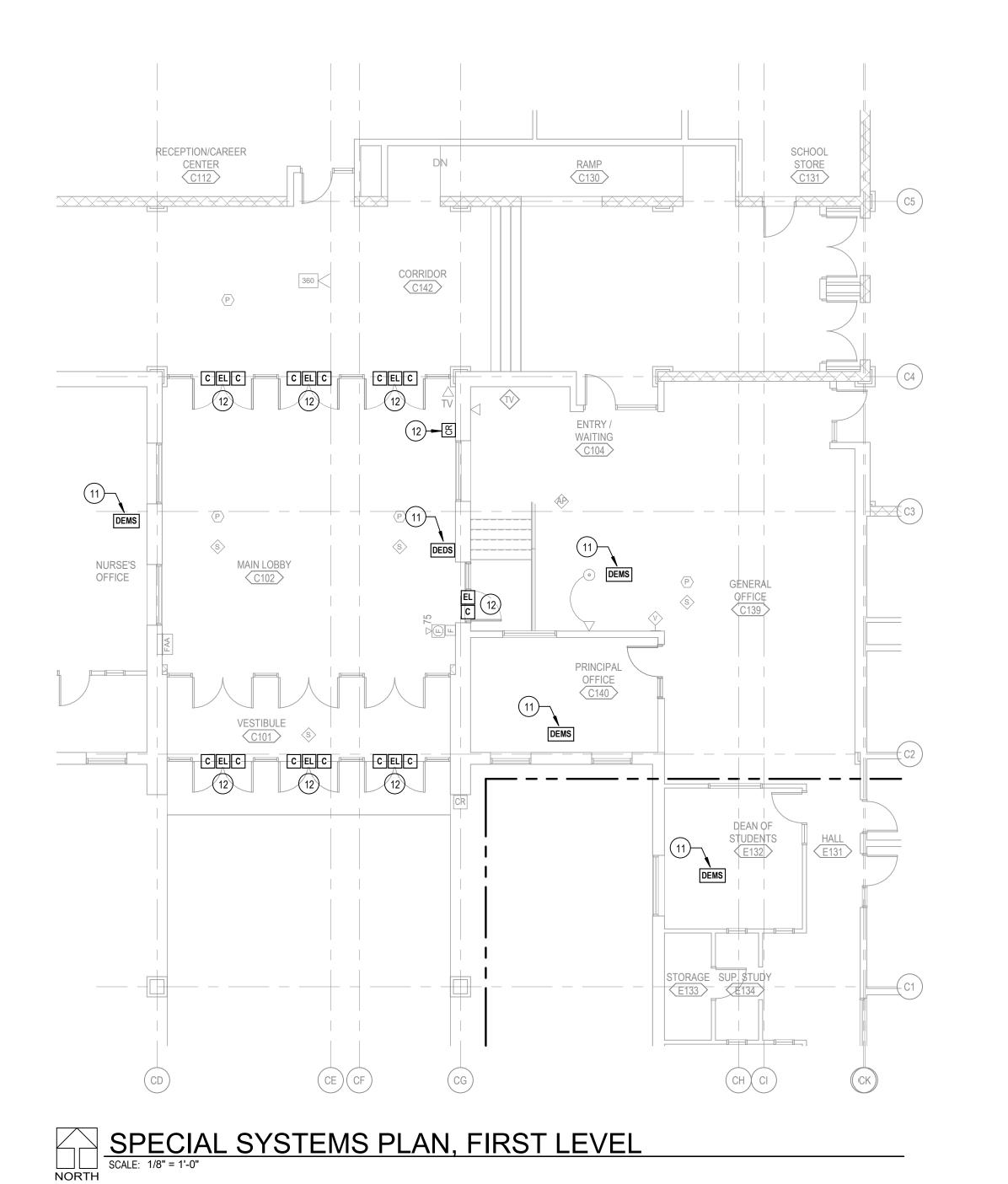
URBANDALE HIGH AND WEBSTE
ELEMENTARY RENOVATIONS

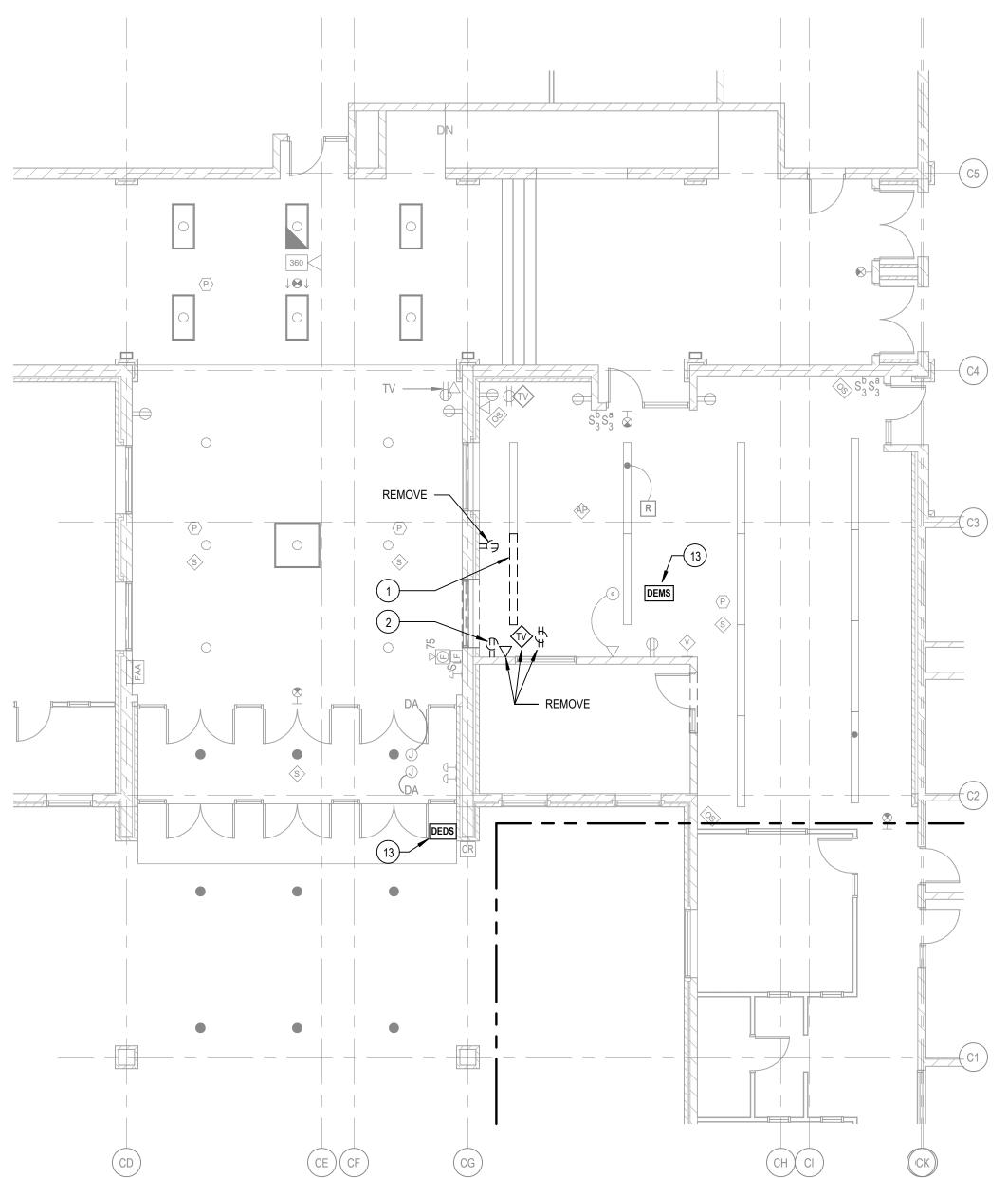
DESIGN DEVELOPMENT 03-20-2019 Revisions

11-18101-30 ELECTRICAL PLANS, FIRST LEVEL

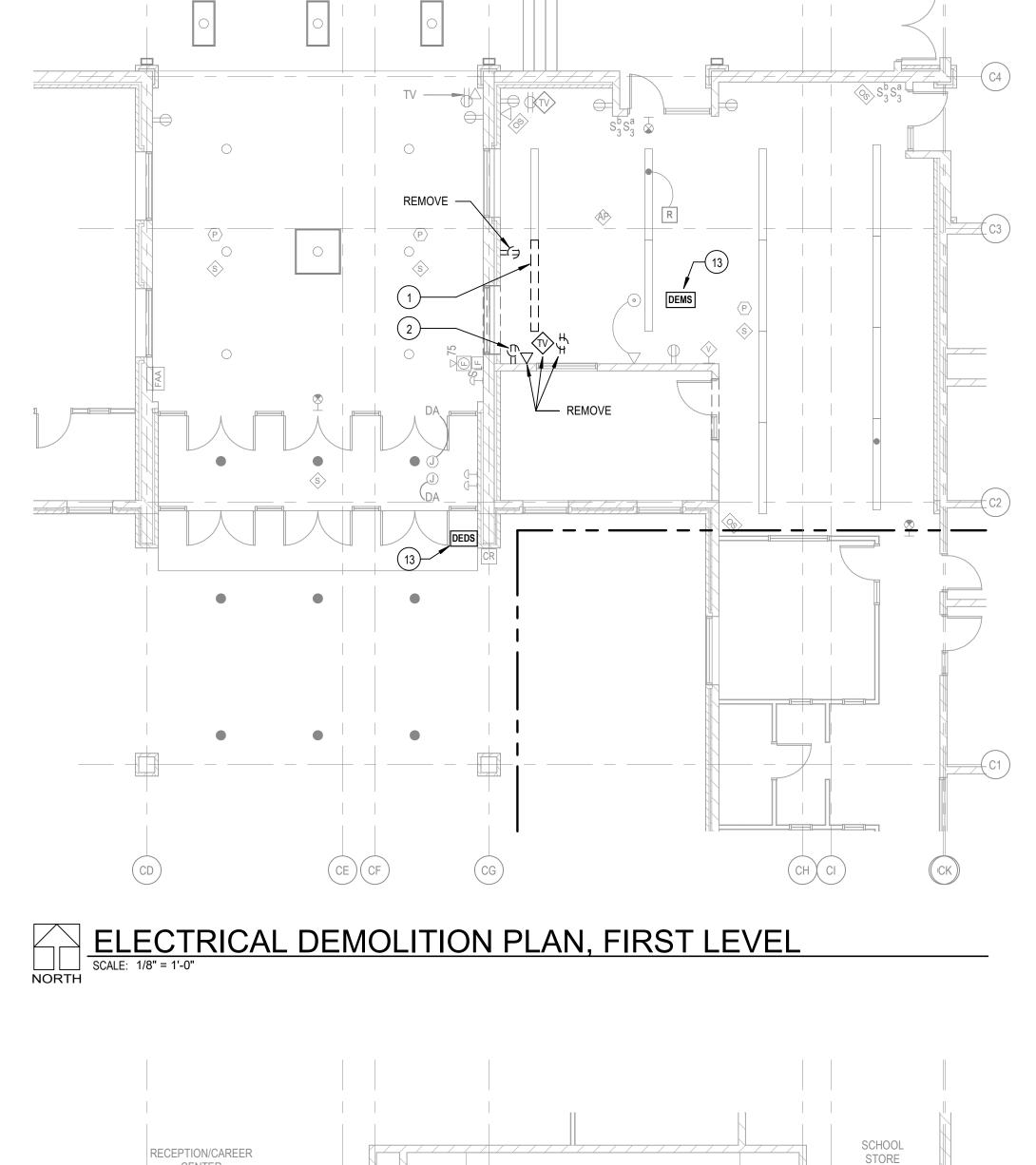
E1.1HS







RECEPTION/CAREER



GENERAL OFFICE C139

STUDENTS E132

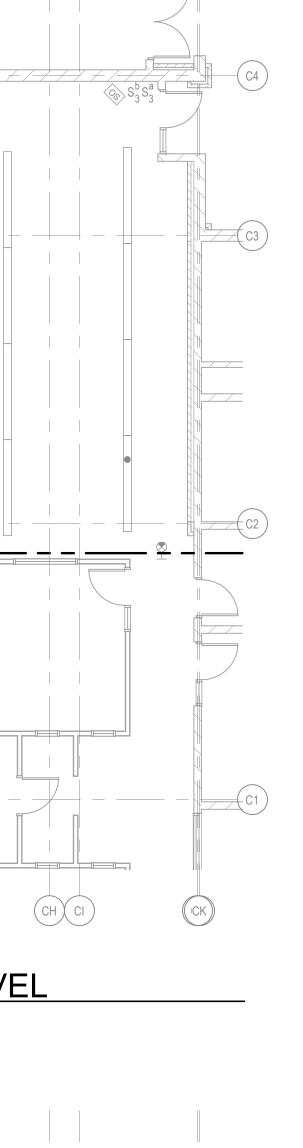
CH CI

PRINCIPAL

CE CF

POWER PLAN, FIRST LEVEL

NORTH SCALE: 1/8" = 1'-0"



LIGHTING PLAN, FIRST LEVEL

SCALE: 1/8" = 1'-0"

KEY PLAN

G SHADED REGION SHOWN IN PLAN

LEGEND NOTES

A. PRIOR TO BIDDING, VISIT THE EXISTING FACILITY TO

IDENTIFY EXISTING BUILDING FINISHES, CEILINGS, AND ACCESSES, TO DETERMINE LOCATIONS, ROUTINGS, AND DISTANCES, AND TO OBTAIN ALL

NECESSARY INFORMATION RELATED TO EXISTING PANELS, EXISTING FIRE ALARM SYSTEM (CONTROL PANELS), DATA NETWORK, AND OTHER EXISTING ELECTRICAL EQUIPMENT AFFECTED UNDER THIS

B. REPAIR OR REPLACE CEILINGS, CEILING TILES, AND CEILING-GRIDS THAT ARE DAMAGED BY THIS CONTRACTOR. PRIOR TO COMMENCING ANY WORK ABOVE CEILINGS, WALK THROUGH THE BUILDING WITH THE OWNER AND/OR ARCHITECT TO IDENTIFY

C. A NON-DESTRUCTIVE X-RAY TEST MUST BE

CORING INTO OR THROUGH THE FLOOR OR LOAD-BEARING WALLS TO A VOID STRUCTURAL TENDONS, IF APPLICABLE, TO PREVENT STRUCTURAL

REQUIRED FOR ELECTRICAL INSTALLATIONS.

ANY AND ALL CONDUITS, FITTINGS, AND JUNCTION-BOXES INSTALLED EXPOSED, WHERE PERMITTED, UNDER THIS CONTRACT SHALL BE

PERFORMED PRIOR TO ANY DRILLING, CUTTING, OR

D. CUT AND PATCH EXISTING WALLS AND CEILINGS AS

COORDINATE SCOPE AND SPECIFICS OF ALL SUCH WORK WITH THE GENERAL CONTRACTOR AND

PAINTED TO MATCH THE SURFACE UPON WHICH IT IS MOUNTED, UNLESS OTHERWISE STATED BY THE

SURFACE RACEWAY IS NOT ALLOWED ON NEW WALLS BELOW THE JOIST SPACE, UNLESS NOTED OTHERWISE. CAST BACK BOXES IN CONCRETE AND ROUTE CONDUIT UP WITHIN WALLS TO ABOVE JOIST SPACE OR DOWN TO BELOW GRADE AS REQUIRED TO PROVIDE A CLEAN, FINISHED APPEARANCE.

WHEREVER EXPOSED RACEWAY IS SPECIFICALLY PERMITTED PER THE PLANS OR SPECIFICATIONS AND APPROVED BY THE ARCHITECT OR OWNER, PROVIDE

SURFACE-METAL RACEWAY AS SPECIFIED, UNLESS

MODIFICATIONS TO EXISTING POWER DISTRIBUTION

EQUIPMENT RATINGS, INCLUDING SHORT-CIRCUIT CURRENT RATING. FIELD-VERIFY CONFIRM WITH MANUFACTURER PRIOR TO BIDDING TO DETERMINE

PROVIDE UPDATED PANEL CIRCUIT DIRECTORIES AFFECTED BY NEW WORK. PROVIDE TYPED DIRECTORY, NOT HANDWRITTEN. OBTAIN ROOM DESIGNATIONS AND NUMBERS DIRECTLY WITH THE

SWITCH TYPE, FUSE TYPE, CIRCUIT BREAKER TYPE,

EQUIPMENT: MATCH EXISTING MANUFACTURER,

(ALL ELECTRICAL PLANS)

CONTRACT.

ARCHITECT.

ANY EXISTING DAMAGES.

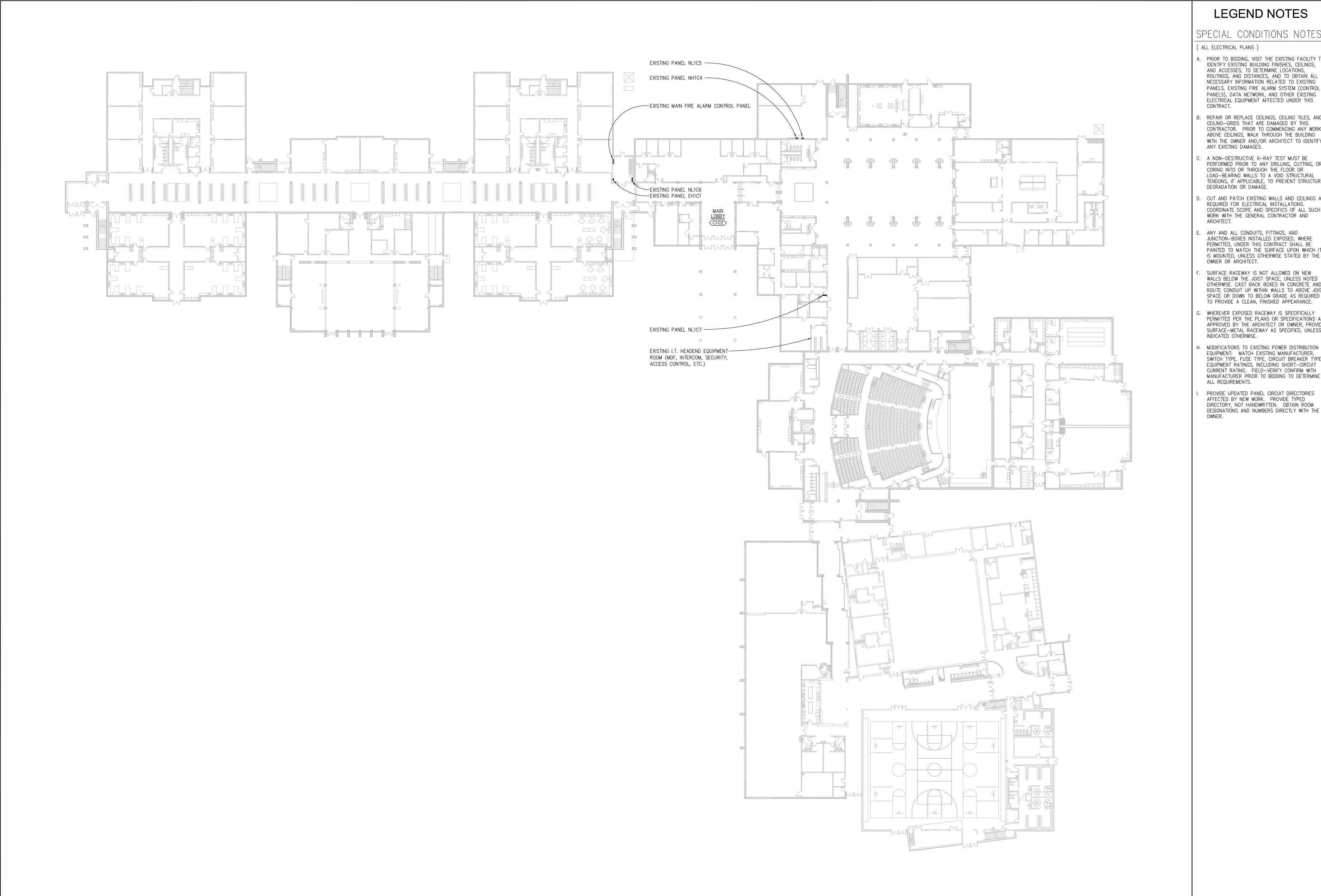
DEGRADATION OR DAMAGE.

OWNER OR ARCHITECT.

INDICATED OTHERWISE.

ALL REQUIREMENTS.

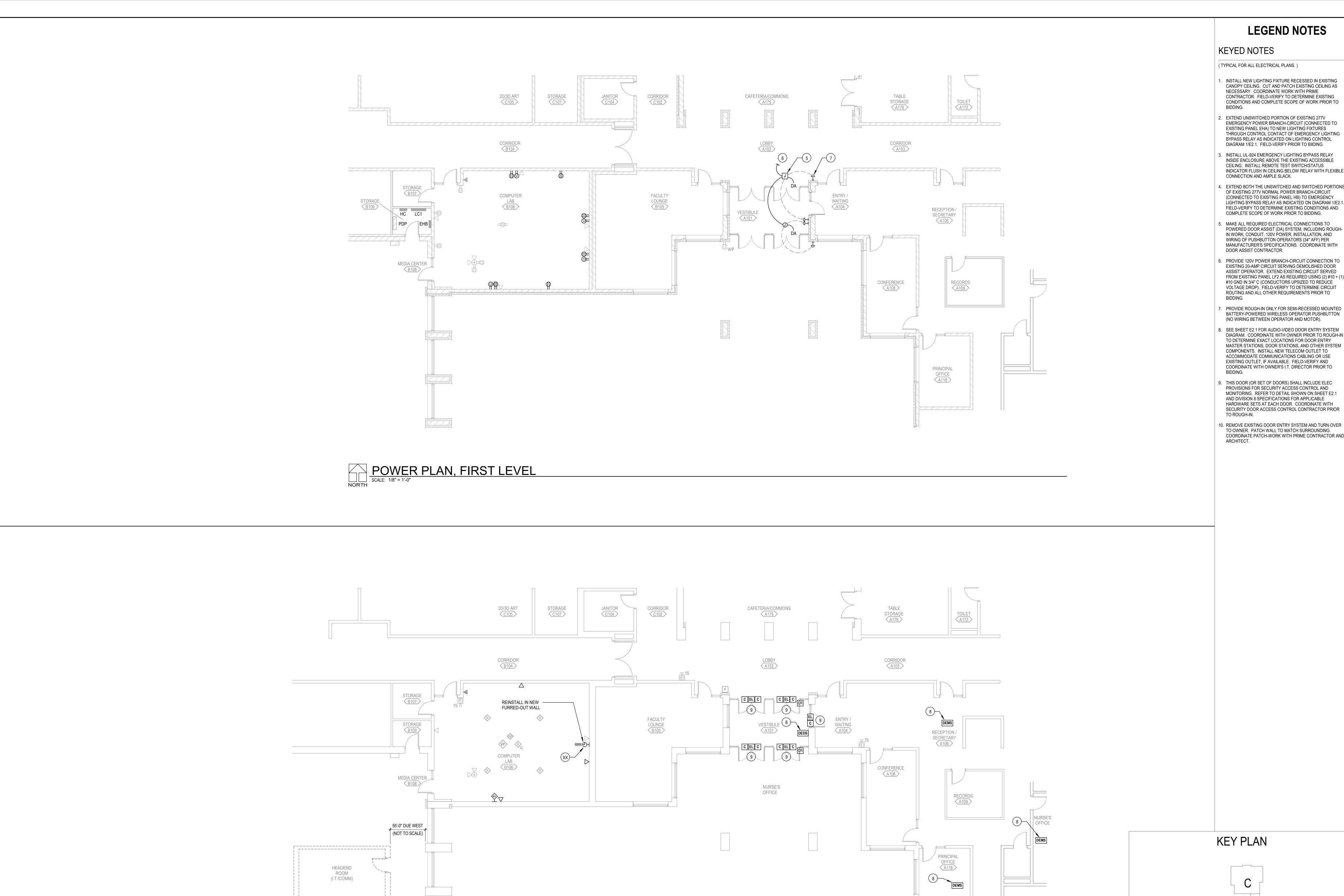
E1.2HS





Project Logo

DESIGN DEVELOPMENT



SPECIAL SYSTEMS PLAN, FIRST LEVEL

SCALE: 1/8" = 1'-0"

(TYPICAL FOR ALL ELECTRICAL PLANS.)

1. INSTALL NEW LIGHTING FIXTURE RECESSED IN EXISTING CANOPY CEILING. CUT AND PATCH EXISTING CEILING AS NECESSARY. COORDINATE WORK WITH PRIME CONTRACTOR. FIELD-VERIFY TO DETERMINE EXISTING CONDITIONS AND COMPLETE SCOPE OF WORK PRIOR TO

2. EXTEND UNSWITCHED PORTION OF EXISTING 277V EMERGENCY POWER BRANCH-CIRCUIT (CONNECTED TO EXISTING PANEL EHA) TO NEW LIGHTING FIXTURES THROUGH CONTROL CONTACT OF EMERGENCY LIGHTING BYPASS RELAY AS INDICATED ON LIGHTING CONTROL DIAGRAM 1/E2.1. FIELD-VERIFY PRIOR TO BIIDING.

3. INSTALL UL-924 EMERGENCY LIGHTING BYPASS RELAY INSIDE ENCLOSURE ABOVE THE EXISTING ACCESSIBLE CEILING. INSTALL REMOTE TEST SWITCH/STATUS INDICATOR FLUSH IN CEILING BELOW RELAY WITH FLEXIBLE CONNECTION AND AMPLE SLACK.

4. EXTEND BOTH THE UNSWITCHED AND SWITCHED PORTIONS OF EXISTING 277V NORMAL POWER BRANCH-CIRCUIT (CONNECTED TO EXISTING PANEL HB) TO EMERGENCY LIGHTING BYPASS RELAY AS INDICATED ON DIAGRAM 1/E2.1. FIELD-VERIFY TO DETERMINE EXISTING CONDITIONS AND COMPLETE SCOPE OF WORK PRIOR TO BIDDING.

5. MAKE ALL REQUIRED ELECTRICAL CONNECTIONS TO POWERED DOOR ASSIST (DA) SYSTEM, INCLUDING ROUGH-IN WORK, CONDUIT, 120V POWER, INSTALLATION, AND WIRING OF PUSHBUTTON OPERATORS (34" AFF) PER MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH

6. PROVIDE 120V POWER BRANCH-CIRCUIT CONNECTION TO EXISTING 20-AMP CIRCUIT SERVING DEMOLISHED DOOR ASSIST OPERATOR. EXTEND EXISTING CIRCUIT SERVED FROM EXISTING PANEL LF2 AS REQUIRED USING (2) #10 + (1) #10 GND IN 3/4" C (CONDUCTORS UPSIZED TO REDUCE VOLTAGE DROP). FIELD-VERIFY TO DETERMINE CIRCUIT ROUTING AND ALL OTHER REQUIREMENTS PRIOR TO

7. PROVIDE ROUGH-IN ONLY FOR SEMI-RECESSED MOUNTED BATTERY-POWERED WIRELESS OPERATOR PUSHBUTTON (NO WIRING BETWEEN OPERATOR AND MOTOR).

8. SEE SHEET E2.1 FOR AUDIO-VIDEO DOOR ENTRY SYSTEM DIAGRAM. COORDINATE WITH OWNER PRIOR TO ROUGH-IN TO DETERMINE EXACT LOCATIONS FOR DOOR ENTRY MASTER STATIONS, DOOR STATIONS, AND OTHER SYSTEM COMPONENTS. INSTALL NEW TELECOM OUTLET TO ACCOMMODATE COMMUNICATIONS CABLING OR USE EXISTING OUTLET, IF AVAILABLE. FIELD-VERIFY AND COORDINATE WITH OWNER'S I.T. DIRECTOR PRIOR TO

9. THIS DOOR (OR SET OF DOORS) SHALL INCLUDE ELEC PROVISIONS FOR SECURITY ACCESS CONTROL AND MONITORING. REFER TO DETAIL SHOWN ON SHEET E2.1 AND DIVISION 8 SPECIFICATIONS FOR APPLICABLE HARDWARE SETS AT EACH DOOR. COORDINATE WITH SECURITY DOOR ACCESS CONTROL CONTRACTOR PRIOR

TO OWNER. PATCH WALL TO MATCH SURROUNDING. COORDINATE PATCH-WORK WITH PRIME CONTRACTOR AND

URBANDALE HIGH AND WEBSTER
ELEMENTARY RENOVATIONS

7111 Aurora Ave 12955 Aurora Ave Urbandale, IA 50322 Urbandale, IA 50323 Urbandale, IA 50323

Proj Log

DESIGN DEVELOPMENT 03-20-2019 Revisions

ELECTRICAL PLANS, FIRST LEVEL

E1.2ES

SHADED REGION SHOWN IN PLAN

INSTALL LOW-VOLTAGE SYSTEM CABLING, INCLUDING FINAL CONNECTIONS. PER

SECURITY ACCESS CONTROL SYSTEM BY SECURITY ACCESS CONTRACTOR.

INTEGRAL TO DOOR FRAME ACCORDING TO DIV 8 SPECS.

CONVENIENCE RECEPTACLES. REFER TO THE POWER PLANS.

ELECTRIC ACTION PANIC BARS OR LOCKSETS WHERE SPECIFIED (DIV. 8).

DOOR HARDWARE CONTRACTOR AND THE SECURITY ACCESS CONTRACTOR

DOOR HARDWARE CONTRACTOR/VENDOR PER MANUFACTURER'S INSTRUCTIONS

PROVISIONS FOR DOOR POSITION SENSOR MAGNETIC CONTACTS (DIV. 8).

THRU-WIRE OR CONTINUOUS HINGE BY (DIV. 8).

INTO ACCESSIBLE PORTION OF FRAME.

ROUGH-IN REQUIREMENTS.

REQUIRE RACEWAY.).

DO NOT GROUT TOP PORTION OF DOOR FRAME.

8. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

MANUFACTURER'S DETAILS AND SPECIFICATIONS. SEE SPECIFICATIONS SECTION 260500.

PROVIDE 1/2" CONDUIT STUBBED OUT INTO INTERIOR ACCESSIBLE SPACE ABOVE CEILING.

COMMUNICATIONS CABLING (NIC) CARD READER COMMUNICATIONS MODULE TO CENTRAL

POWER TRANSFER DEVICE AND/OR REQUEST-TO-EXIT/PANIC DEVICE COMPONENTS: ELECTRIC

ELECTRIC STRIKE/MAGNETIC LOCK OR REQUEST-TO-EXIT/PANIC DEVICE COMPONENTS (DIV. 8).

PROVIDE 120-VAC CONNECTION TO NEAREST BRANCH CIRCUIT SERVING GENERAL- PURPOSE

INSTALL VENTILATED ENCLOSURE(S) FOR POWER SUPPLY AND CONTROLLER. MATERIALS

FURNISHED UNDER DIVISION 8. LOCATIONS AND QUANTITIES TO BE COORDINATED WITH BOTH THE

INSTALL 1/2" CONDUIT CONCEALED FROM BOX AND STUB-OUT INTO INTERIOR ACCESSIBLE SPACE

COORDINATE INSTALLATION OF DOOR ACCESS CONTROLS/POWER SUPPLY FURNISHED WITH DIV-8

WHERE APPLICABLE, INTERLOCK WITH POWER DOOR ASSIST OPERATOR (DIV. 8). COORDINATE

INSTALL ACCESS CONTROL MODULE(S)/SYSTEM CONTROL PROCESSOR SUPPLIED UNDER DIVISION

INSTALL CONCEALED RACEWAY FOR FIXED MULLIONS ONLY. (REMOVEABLE MULLIONS WILL NOT

ABOVE FINISHED CEILING WITH PULLSTRING. FOR ALUMINUM STOREFRONT, STUB 1" CONDUIT

CARD READER (DIV. 8): COORDINATE ROUGH-IN WHERE APPLICABLE AT EVERY SECURITY ACCESS

DOOR WHETHER INTERIOR OR EXTERIOR: INSTALL RECESSED 1-GANG BOX IN ADJACENT WALL OR

Revisions

DETAILS AND SCHEDULES

EXISTING EXIT SIGNS $-\otimes$ — LOCATE EMERG LTG BYPASS RELAY NEAR EMERG LTG FIXTURE WITH TEST SWITCH / UL-924 STATUS INDICATOR MTD FLUSH IN CLG. EMERG LTG (NEW) ENABLE / OVERRIDE TYPES AND QUANTITIES OFF KEYED SWITCH AS PER THE PLANS <u>----</u>\$

LIGHTING CONTROL DIAGRAM -EGRESS LIGHT W/ KEYED SWITCH

1 NO SCALE

LIGHTS IN OFFICE WAITING AREA.

- CONNECT TO SAME NORMAL POWER CIRCUIT SERVING EXISTING

277V

H ◄─

N -

EMERG POWER (EHC1 - #)

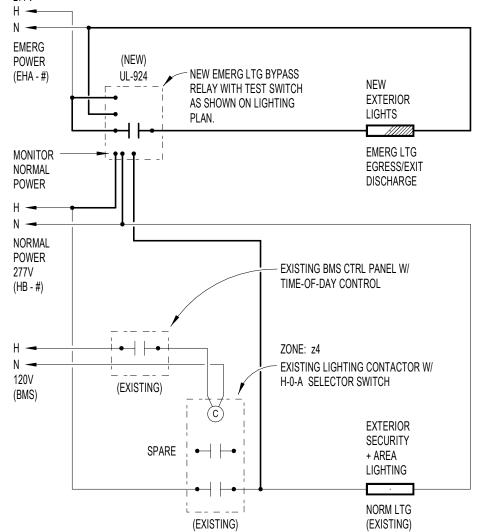
MONITOR -

NORMAL

POWER

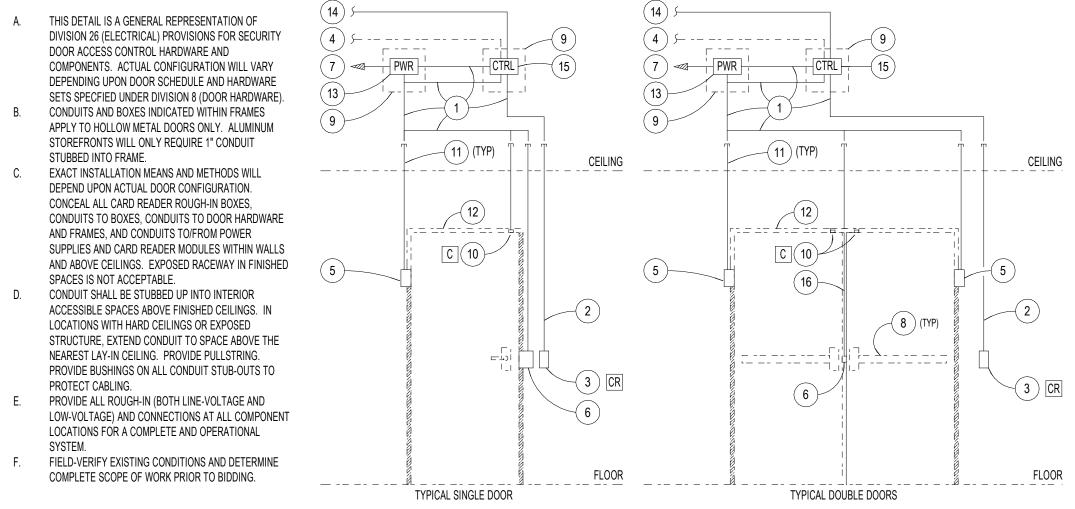
NORMAL POWER 277V (NH1C4 - #)

∦ →



LIGHTING CONTROL DIAGRAM -**EXTERIOR EXIT DISCHARGE LIGHTS**

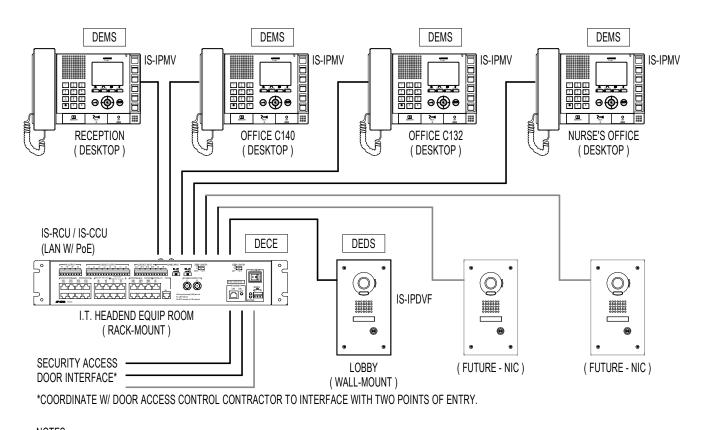




ACCESS CONTROL SYSTEM, GENERAL NOTES:

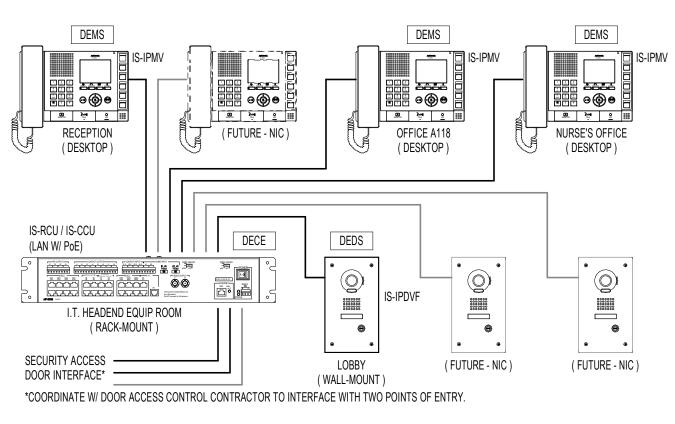
ACCESS CONTROL SYSTEM, KEYED NOTES:

OOOR SECURITY ACCESS CONTROL - ELECTRICAL PROVISIONS

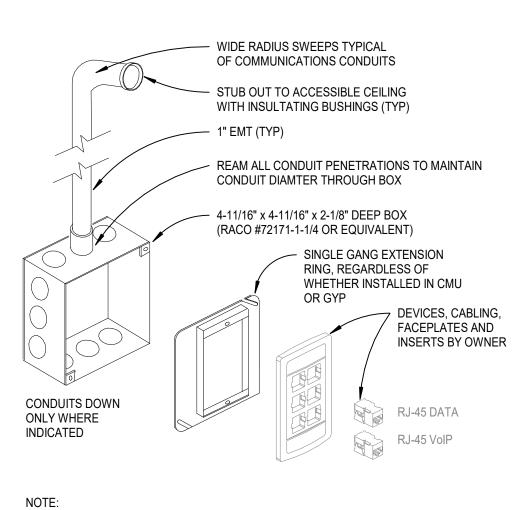


NOTES:

- 1. SYSTEM COMPONENTS: DEMS-DOOR ENTRY MASTER STATION, DEDS-DOOR ENTRY DOOR STATION, DECE-DOOR ENTRY CENTRAL
- CONTRACTOR SHALL PROVIDE COMPLETE AND FUNCTIONAL DOOR ENTRY SYSTEM WITH AUDIO/VIDEO COMMUNICATIONS AND SHALL COORDINATE WITH SECURITY ACCESS CONTROL SYSTEM (BY OTHERS) FOR EACH SECURITY ACCESS DOOR INTERFACE.
- . PROVIDE IP-BASED SYSTEM CONFIGURATION WITH ABILITY TO IMPLEMENT HYBRID HARDWIRED COMPONENTS IF NECESSARY. THIS CONTRACT SHALL INCLUDE SYSTEM DESIGN, ROUGH-IN, CONDUIT, WIRING, INSTALLATION, PROGRAMMING, AND TESTING IN
- COORDINATE REQUIRED HEADEND EQUIPMENT WITH OWNER'S I.T. DIRECTORY AND WITH THE MANUFACTURER PRIOR TO BIDDING ACCEPTABLE MANUFACTURER AND DESIGN BASIS: AIPHONE "IS" SERIES. SYSTEM COMPONENTS MODEL NUMBERS AS INDICATED.
- SUBMIT REQUESTS FOR PRIOR APPROVAL OF EQUIVALENT MANUFACTURER'S PRIOR TO BIDDING. 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND SYSTEM WIRING DIAGRAMS FOR ENGINEER'S REVIEW.
- DOOR ENTRY SYSTEM DIAGRAM -URBANDALE HIGH SCHOOL

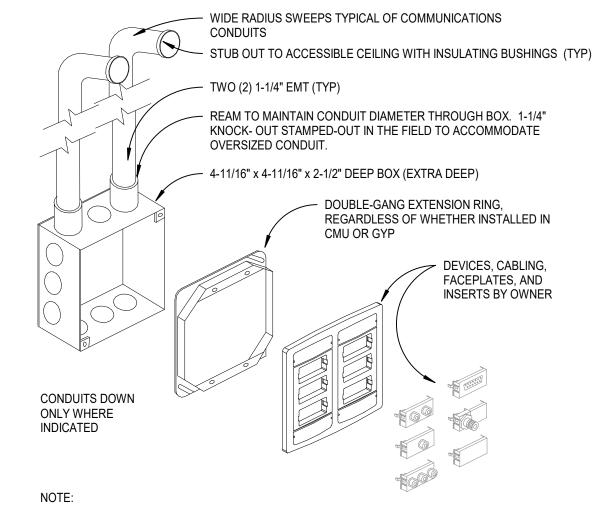


- SYSTEM COMPONENTS: DEMS-DOOR ENTRY MASTER STATION, DEDS-DOOR ENTRY DOOR STATION, DECE-DOOR ENTRY CENTRAL
- CONTRACTOR SHALL PROVIDE COMPLETE AND FUNCTIONAL DOOR ENTRY SYSTEM WITH AUDIO/VIDEO COMMUNICATIONS AND SHALI COORDINATE WITH SECURITY ACCESS CONTROL SYSTEM (BY OTHERS) FOR EACH SECURITY ACCESS DOOR INTERFACE.
- PROVIDE IP-BASED SYSTEM CONFIGURATION WITH ABILITY TO IMPLEMENT HYBRID HARDWIRED COMPONENTS IF NECESSARY. THIS CONTRACT SHALL INCLUDE SYSTEM DESIGN, ROUGH-IN, CONDUIT, WIRING, INSTALLATION, PROGRAMMING, AND TESTING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, PLUS ALL FUTURE SOFTWARE UPDATES. CONTRACTOR SHALL
- 4. ACCEPTABLE MANUFACTURER AND DESIGN BASIS: AIPHONE "IS" SERIES. SYSTEM COMPONENTS MODEL NUMBERS AS INDICATED.
- SUBMIT REQUESTS FOR PRIOR APPROVAL OF EQUIVALENT MANUFACTURER'S PRIOR TO BIDDING. 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND SYSTEM WIRING DIAGRAMS FOR ENGINEER'S REVIEW.
- DOOR ENTRY SYSTEM DIAGRAM -WEBSTER ELEMENTARY SCHOOL



INSTALL RACEWAY STUBBED OUT ABOVE THE ACCESSIBLE CEILING IN SAME ROOM, UNLESS OTHERWISE NOTED. IF THE ROOM DOES NOT HAVE A LAY-IN GRID CEILING, ROUTE CONDUITS TO ABOVE THE NEAREST ACCESSIBLE CEILING OR DIRECTLY TO THE I.T. ROOM, UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS.





INSTALL RACEWAY STUBBED OUT ABOVE THE ACCESSIBLE CEILING IN SAME ROOM, UNLESS OTHERWISE NOTED. IF THE ROOM DOES NOT HAVE A LAY-IN GRID CEILING, ROUTE CONDUITS TO THE VIDEO DISPLAY OUTLET IN THE ROOM, UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS.



			LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURERS	CATALOG NUMBER	PARAMETI	ERS	CONTROLS	MOUNTING	DESCRIPTION	NOTES			
R21	AURORA	AR-LP122P3DD/40-*	LIGHT SOURCE:	LED	NON-DIMMABLE	RECESSED	2' x 2' FLAT-PANEL, EDGE-LIT, ULTRA-THIN PROFILE, 4000 LUMENS (NOM),	1			
	ACUITY (LITHONIA)	(EQUIVALENT)	COLOR TEMP =	4000K		CLG GRID MOUNTS	FULL UNIFORMITY ACROSS LIGHT GUIDE, FROSTED ACRYLIC DIFFUSER,				
	EATON (METALUX)	(EQUIVALENT)	CRI (MIN) =	80			NO AIR GAP, 120-DEG BEAM ANGLE, GALVANIZED STEEL HOUSING, PAF				
	HUBBELL (COLUMBIA)	(EQUIVALENT)	L (MIN) =	3500			DAMP LOCATION UL LISTED, IP-20 RATED,				
	PHILIPS (DAY-BRITE)	(EQUIVALENT)	LPW (MIN) =	105			LUMENS @50K HRS > LM-79 PER IES TM-21, PF>0.9, THD<20%, 10 KV SPD,				
	WILLIAMS	(EQUIVALENT)	VA (MAX) =	38							
	CREE (ESSENTIA)	(EQUIVALENT)	VOLT =	277							
	(SEE NOTE 1 FOR OTHER MFR)	(EQUIVALENT)									
S52	PHILIPS (LIGHTOLIER)	S6S-8-40K-10-*	LIGHT SOURCE:	LED	NON-DIMMABLE	SURFACE	6 x 6 INCH (NOM) SQUARE FLAT-PANEL, EDGE-LIT, ULTRA-THIN PROFILE,	2			
	CREE (ESSENTIA)	(EQUIVALENT)	COLOR TEMP =	4000K		MOUNTED	FULL UNIFORMITY ACROSS LIGHT GUIDE, FROSTED ACRYLIC DIFFUSER,				
	ACUITY (LITHONIA)	(EQUIVALENT)	CRI (MIN) =	80			NO AIR GAP, 120-DEG BEAM ANGLE, GALVANIZED STEEL HOUSING, PAF				
	EATON (METALUX)	(EQUIVALENT)	L (MIN) =	1000			EXTERIOR DAMP LOCATION UL LISTED, IP-20 RATED, WHITE TRIM,				
	JUNO	(EQUIVALENT)	LPW (MIN) =	60			LUMENS @50K HRS > LM-79 PER IES TM-21, PF>0.9, THD<20%, 10 KV SPD.				
	GREEN CREATIVE	(EQUIVALENT)	VA (MAX) =	20							
			VOLT =	277			MAXIMUM DIMENSIONS: 9 x 9 IN SQUARE x 1 IN PROFILE.				
							NO GAPS PERMITTED BETWEEN FIXTURE AND CEILING.				
R65	AURORA	AR-D56WF1WH9/40	LIGHT SOURCE:	LED	NON-DIMMABLE	RECESSED	SPECIAL LOW-PROFILE DOWNLIGHT, 3-INCH (MAX) DEPTH, 6-INCH				
	ACUITY (GOTHAM)	(EQUIVALENT)	COLOR TEMP =	4000K		IN HARD CLG	ROUND APERATURE, 7-INCH DIA W/ TRIM RING, WET-LOCATION RATED,				
	EATON (PORTFOLIO)	(EQUIVALENT)	CRI (MIN) =	85		(GYP-BOARD)	SEALED LENS W/ MULTI-FACETED HALOGEN-LIKE APPEARANCE, WIDE				
	HUBBELL (PRESCOLITE)	(EQUIVALENT)	L (MIN) =	1400			70-DEG BEAM DISTRIBUTION, -4 DEG-F OPERATING TEMP, MOUNTING				
	PHILIPS (LIGHTOLIER)	(EQUIVALENT)	LPW (MIN) =	80			ACCESSORIES FOR HARD CLG APPLICATIONS, INTEGRAL 10 KV SPD,				
	H.E. WILLIAMS OR CREE	(EQUIVALENT)	VA (MAX) =	20			LUMENS @50K HRS > LM-79 PER IES TM-21, PF>0.9, THD<20%				
	PEACHTREE	(EQUIVALENT)	VOLT =	277			UL LISTED FOR WET LOCATIONS, INCLUDING EXTERIOR APPLICATIONS.				
	FOCAL POINT	(EQUIVALENT)									

ABBREVIATIONS:		GENERAL NOTES:						
AFF CLG CRI GWB HRS IES IP	ABOVE FINISHED FLOOR CEILING COLOR RENDERING INDEX (RATING) GYPSUM WALLBOARD HOURS ILLUMINATING ENGINEERING SOCIETY INGRESS PROTECTION (RATING) KILO-VOLTS	A. B. C.	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE FIXTURE MOUNTING ACCESSORIES, WHICH DEPEND UPON CEILING TYPES AND OTHER CHARACTERISTICS OF BUILDING CONSTRUCTION. COORDINATE PRIOR TO BIDDING. THE FIRST MFR LISTED FOR EACH TYPE AND ITS CATALOG NUMBER SERVES AS THE BASIS OF DESIGN. ALTERNATIVE PRODUCTS BY OTHER APPROVED MANUFACTURERS MUST PROVIDE EQUAL OR SUPERIOR QUALITY TO THAT OF THE DESIGN BASIS. WORDS SUCH AS "EQUAL" AND "EQUIVALENT" SHALL BE DEFINED AS AN APPROVED MFR THAT IS STATED AS SUCH IN THE CONTRACT DOCUMENTS AND A PRODUCT HAVING A CERTAIN QUALITY OF DESIGN, CONSTRUCTION, AND PERFORMANCE THAT IS EQUIVALENT OR SUPERIOR TO THAT OF THE DESIGN BASIS. CATALOG NUMBER SHALL NOT BE REGARDED AS COMPLETE AND IS PROVIDED ONLY TO INDICATE QUALITY, STYLE, & FEATURES OF					
L LED L/FT LPW MAX MFR MIN MTD	DELIVERED LUMENS LIGHT EMITTING DIODES DELIVERED LUMENS PER LINEAR FOOT DELIVERED LUMENS PER WATT MAXIMUM VALUE MANUFACTURER MINIMUM VALUE MOUNTED	E. F. G.	THE FIXTUER. THIS NUMBER SHALL NOT BE USED FOR ORDERING MATERIALS. THIS CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DETERMINING THE COMPLETE AND ACCURATE CATALOG NUMBER BASED ON THE SCHEDULE, DESCRIPTION, NOTES, PLANS, AND SPECIFICATIONS. THE CONTRACTOR SHALL RECONCILE EACH FIXTURE SELECTION, INCLUDING ITS MOUNTING OPTIONS AND ACCESSORIES, WITH ITS INTENDED APPLICATION. ALL FIXTURE ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT. SEE PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.					
MTG NOM	MOUNTING NOMINAL	SPEC	IFIC NOTES:					
PAF PF RCP SPD THD TYP UL UNO UNV VA VA/FT VOLT	PAINTED AFTER FABRICATION POWER FACTOR REFLECTED CEILING PLAN SURGE PROTECTIVE DEVICE TOTAL HARMONIC DISTORTION TYPICAL UNDERWRITERS LABORATORIES UNILESS NOTED OTHERWISE UNIVERSAL OPERATING VOLTAGE VOLT-AMPERES VOLT-AMPERES PER LINEAR FOOT OPERATING VOLTAGE WATTS	1. 2.	OTHER APPROVED MANUFACTURERS FOR EDGE-LIT FLAT-PANEL FIXTURES ARE: NORA LIGHTING, EVERLAST, ETECH-LED, VENTURE, DECO, FOCAL POINT, AND VERBATIM. SURFACE-MOUNT FIXTURE SHALL ACCOMMODATE ELECTRICAL CONNECTION WITHIN STANDARD ELECTRICAL J-BOX INSTALLED FLUSH, FULLY ACCESSIBLE, YET CONCEALED BEHIND FIXTURE ENCLOSURE.					