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ΗW

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ARCHITECTURAL ALLIANCE, INCORPORATED

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HOT WATER

INSIDE DIAMETER

RM

## 770 South 7th Street

DR

DS

ΕA

EF

EJ

EIFS

ELEC

ELEV

EMER

ENCL

EQUIP

EQ

EW

EWC

EXH

EXIST

EXP

EXT

FD

FDN

FEC

FE

FF

FFE

FIN

FLR

FO

FOB

FOC

FOS

FR

FT

FTG

FURR

GA

GB

GC

GL

GR

GND

GWB

GYP

HB

HC

HM

ΗT

HDR

HDWR

HORIZ

HVAC

GALV

FLUOR FM

DWR

DOOR

DRAWER

DOWNSPOUT

## OWNER

A.B.

DL

DN

DEAD LOAD

DOWN

Silsbee ISD 415 Highway 327 west Silsbee, TX 77656 Contact:

David Biddle (409) 980-7855 Phone: Email: David. Biddle@Silsbeeisd.org

ANCHOR BOLT

## **ABBREVIATIONS**

A/C AIR CONDITIONING ACOUSTICAL CEILING TILE ACT A.D. AREA DRAIN ADA AMERICANS WITH DISABILITIES ACT ADJUSTABLE ADJ AFF ABOVE FINISH FLOOR ALT ALTERNATE ALUM ALUMINUM ANOD ANODIZED APPROX APPROXIMATE ARCH ARCHITECT(URAL ASPH ASPHALT BD BOARD BIT BITUMINOUS BLDG BUILDING BLKG BLOCKING BM BEAM B.O. BOTTOM OF BOT BOTTOM BRG BEARING BTWN BETWEEN BUILT-UP ROOF BUR CAB CABINET CBU CEMENTITIOUS BACKER UNIT C/C CENTER-TO-CENTER CEM CEMENT CER CERAMIC C.G. CORNER GUARD C.I.P. CAST-IN-PLACE C.J. CONTROL JOINT CENTERLINE CL CLG CEILING CLR CLEAR(ANCE) CLOS CLOSET CMU CONCRETE MASONRY UNIT C.O. CLEAN OUT COLUMN COL CONC CONCRETE CONSTRUCTION CONSTR CONTINUOUS CONT COORD COORDINATE CORR CORRIDOR CTR CENTER C.Y. CUBIC YARD DBL DOUBLE DEMO DEMOLITION DEPT DEPARTMENT DET DETAIL DIA DIAMETER DIAG DIAGONAL DIM DIMENSION DISP DISPENSER

EACH EACH FACE / EXHAUST FAN EXPANSION JOINT EXTERIOR INSULATED	IN INCL INSUL INT INV	INCH INCLUDE(D) INSULATION INTERIOR INVERT
	ΙΔΝ	
		IOIST
	IT	IOINIT
	01	001111
EQUAL	КD	
		KITCHEN
	KO	
	RO	KNOOK OUT
ELECTRIC WATER COOLER	ΙΔR	
EXISTING		
EXTERIOR		
EXTERIOR		
	L HR	LEFT HAND REVERSE
FOUNDATION		
FIRE EXTINGUISHER		
FIRE EXTINGUISHER		
CABINET		LIGHT WEIGHT CONCRETE
EINISH ELOOR	LIIO	
FINISH FLOOR FLEVATION	MACH	MACHINE
FINISH	MAS	MASONRY
FLOOR	MATI	MATERIAI
FLUORESCENT	MAX	MAXIMUM
	MDF	MEDIUM DENSITY FIBERBOARD
FACE OF (SPECIEV ITEM)	MECH	MECHANICAI
FACE OF BRICK	MEMB	MEMBRANE
FACE OF CONCRETE	MFR	MANUFACTURER
FACE OF STUD	MEZZ	MEZZANINE
FIRE RESISTIVE	MH	MANHOLE
FEET / FOOT	MIN	MINIMUM
FOOTING	MIR	MIRROR
FURRING / FURRED	MISC	MISCELLANEOUS
	MO	MASONRY OPENING
GUAGE	MR	MOISTURE RESISTANT
GALVANIZED	MTL	METAL
GRAB BAR	MULL	MULLION
GENERAL CONTRACTOR		
GLASS / GLAZING	N/A	NOT APPLICABLE
GROUND	NIC	NOT IN CONTRACT
GRADE	NO.	NUMBER
GYPSUM WALLBOARD	NOM	NOMINAL
GYPSUM	NTS	NOT TO SCALE
HOSE BIB	OC	ON CENTER
HOLLOW CORE	OD	OUTSIDE DIAMETER
HEADER		(OR OVERFLOW DRAIN)
HARDWARE	OFCI	
HOLLOW METAL		
HORIZONTAL	OFOI	
HEIGHI		
HEATING, VENTILATION,	OH	
AND AIR CONDITIONING		OVERNEAD)



# SILSBEE ELEMENTARY GYMNASIUM **FINISH-OUT**

## MECHANICAL, ELECTRICAL, PLUMBING

MEPTech Engineering, Inc 5090 Ada St Beaumont, TX 77708 Contact: Phone: Email:

Laurance Laserna 409-673-2013 Illaserna@gt.rr.com

THK

UC

UL

## STRUCTURAL

FITTZ & SHIPMAN 1405 Cornerstone Court Beaumont, Texas 77706

Contact: Daniel Dotson (409) 832-7238 Phone: Email: ddotson@fittzshipman.com

OPNG OPP	OPENING OPPOSITE
PERP PL PLAM PLAS PLYWD PNL PNT PR PSF PSI PT PTN PVC	PERPENDICULAR PLATE (OR PROPERTY LINE) PLASTIC LAMINATE PLASTER PLYWOOD PANEL PAINT PAIR POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED PARTITION POLYVINYL CHLORIDE
RA RAD RB RCP RD REBAR REC REF REFR REINF REQD RES REV RH RHR RHR RM RO RWL R&S	RETURN AIR RADIUS RESILIENT BASE REFLECTED CEILING PLAN ROOF DRAIN REINFORCING BAR RECESSED REFERENCE REFRIGERATOR REINFORCING / REINFORCED RESILIENT REVISION RIGHT HAND RIGHT HAND REVERSE ROOM ROUGH OPENING RAINWATER LEADER ROD AND SHELF
SC SCHED SF SHT SIM SPEC SQ SS ST STC STD STC STD STL STOR STRUCT SUSP SYM	SOLID CORE SCHEDULE SQUARE FEET SHEET SIMILAR SPECIFICATION SQUARE STAINLESS STEEL STONE SOUND TRANSMISSION CLASS STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL
TAS T&B T&G TBD TEL TER	TEXAS ACCESSIBILITY STANDARDS TOP AND BOTTOM TONGUE AND GROOVE TO BE DETERMINED TELEPHONE TERRAZZO

TI	TENANT IMPROVEMENT
TO	TOP OF (SPECIFY ITEM)
TOC	TOP OF CURB / CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPTN	TOILET PARTITION
TS	TUBULAR STEEL
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCOUNTER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
W/	WITH
WH	WATER HEATER
W/O	WITHOUT
WP	WATERPROOF
WR	WATER RESISTANT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWF	WELDED WIRE MESH
YD	YARD

THICK(NESS)

LOCATION MAP 5 PARTITION TYPES REVISION Brookshire Brothers 🔚 Walgreens Walgreens H - & Well EXTERIOR ELEVATION TAG A601 bee Elementary BATH ROOM **ROOM NAME & NUMBER** WAveP Whataburg WINDOW TYPE Rest Haven Cemetery 🛛 Casa Olé 🚻 NORTH ARROW

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## Silsbee, TX 77656

## CIVIL

FITTZ & SHIPMAN 1405 Cornerstone Court Beaumont, Texas 77706

Contact: Ben Tristan 409-832-7238 Phone: Email: btristan@fittzshipman.com

		0
Shoot	List Toble	
Sileel		
Sheet Number	Sheet Title	
G000	Cover Sheet Project Data	
G100	Texas Accessibility Sheet	
G101	Texas Accessibility Sheet	
G102	Texas Accessibility Sheet	
C100	Energy Code Compliance	
21.0	Drainage Plan	
2.00	Dimension Plan	
3.00	Grading Plan	
24.00	Utility Plan	
5.00	Erosion Control Plan	
6.00	General Notes and Details	
001	Site Plan	
101	Floor Plan	
200	Doors Types and Schedule	
\300	Reflected Ceiling Plan	
600	Exterior Elevation	
700	Wall Section	
701	Wall Details	
51	General Notes & Details	
52	Foundation Plan	
IEP.1	Mechanical, Electrical, & Plumbing Site Plan & Notes	
1.1	Mechanical Floor Plan, Notes & Symbols	
1.2	Mechanical Schedule	
1.3	Mechanical Details & Specifications	
.1	Lighting Floor Plans, Light Fixture Schedule & Notes	
.2	Power and Communications Floor Plan, Notes & Symbols	
3	Electrical Riser One-Line Diagram, Panel Schedule, Notes, Load Analysis & Details	
.4	Electrical Specifications	

**FINISH-OUT** 

GYMNASIUM

ELEMENTARY

SILSBEE

ISSUED FOR

SCHEMATIC DESIGN

DESIGN DEVELOPMENT

DATE: 4/9/2023

ISD

Sil









42" MIN

Latch Approach, Pull Side

RAMP

If with Closer and Latch



404.2.6 DOORS IN SERIES AND GATES IN SERIES. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates

404.2.10 DOOR AND GATE SURFACES. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extendina the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates

405.2 SLOPE. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are

> 1:8 SLOPE = 3" Maximum Rise 1:10 SLOPE = 6" Maximum Rise

405.3 CROSS SLOPE. Cross slope of ramp runs shall not be steeper than 1:48.



#### Figure 405.7 Ramp Landings

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the



406.1 GENERAL. Curb ramps on accessible routes shall comply with 406, 405.2 through

406.2 COUNTER SLOPE. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

COUNTER SLOPE	1:20		_
	4.00	CURB	RA

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 SIDES OF CURB RAMPS. Where provided, curb ramp flares shall not be steeper than 1:10.

406.4 LANDINGS. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

406.5 LOCATION. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.



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SHEET

SHEET NUMBER

G100

21052







Accessible Toilet Compartment Doors

604.8.1.4 TOE CLEARANCE. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floormounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.



604.8.2.1 SIZE. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum

604.8.2.2 DOORS. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self—closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.



Ambulatory Compartment

605.2 HEIGHT AND DEPTH. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.



Figure 605.2 Height and Depth of Urinals

606 LAVATORIES AND SINKS

606.2 CLEAR FLOOR SPACE. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

EXCEPTIONS: 1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.

2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.

3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met: (a) the cabinetry can be removed without removal or replacement of the fixture;

(b) the finish floor extends under the cabinetry; and (c) the walls behind and surrounding the cabinetry are finished.

4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or around shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.

5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.

6. The dip of the overflow shall not be considered in determining knee and toe clearances.

7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 HEIGHT. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 FAUCETS. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

#### 607 BATHTUBS

607.2 CLEARANCE. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

607.3 SEAT. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 GRAB BARS. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

607.4.1 BATHTUBS WITH PERMANENT SEATS. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

607.4.1.1 BACK WALL. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

#### 607.4.1.2 CONTROL END WALL. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.





607.5 CONTROLS. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

607.6 SHOWER SPRAY UNIT AND WATER. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum. 608 SHOWER COMPARTMENTS

608.2.1 TRANSFER TYPE SHOWER COMPARTMENTS. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.



Alternate Roll-In Type 609 GRAB BARS 609.2.1 CIRCULAR CROSS SECTION. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 NON-CIRCULAR CROSS SECTION. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

609.3 SPACING. The space between the wall and the grab bar shall be  $1 \frac{1}{2}$  inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

609.4 POSITION OF GRAB BARS. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 SURFACE HAZARDS. Grab bars and any wall or other surfaces adjacent to arab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 FITTINGS. Grab bars shall not rotate within their fittings.

609.7 INSTALLATION. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

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609.8 STRUCTURAL STRENGTH. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

#### 610 SEATS

610.2 BATHTUB SEATS. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

610.3 SHOWER COMPARTMENT SEATS. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type. shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

610.3.1 RECTANGULAR SEATS. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent

610.3.2 L-SHAPED SEATS. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

#### 702 FIRE ALARM SYSTEMS

702.1 GENERAL. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

EXCEPTION: Fire alarm systems in medical care facilities shall be permitted to be provided in accordance with industry practice.

#### 703 SIGNS

703.1 GENERAL. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 RAISED CHARACTERS. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with

703.2.1 DEPTH. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 CASE. Characters shall be uppercase.

703.2.3 STYLE. Characters shall be sans serif. Characters shall not be italic, obligue. script, highly decorative, or of other unusual forms.

703.2.4 CHARACTER PROPORTIONS. Characters shall be selected from fonts where the width of the uppercase letter "0" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter

703.2.5 CHARACTER HEIGHT. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

703.2.6 STROKE THICKNESS. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character. 703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 LINE SPACING. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 BRAILLE. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 DIMENSIONS AND CAPITALIZATION. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

#### 705 DETECTABLE WARNINGS

705.1.1 DOME SIZE. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 DOME SPACING. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 CONTRAST. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

#### 708 TWO-WAY COMMUNICATION SYSTEMS

708.3 HANDSETS. Handset cords, if provided, shall be 29 inches (735 mm) long minimum.

708.4 RESIDENTIAL DWELLING UNIT COMMUNICATION SYSTEMS. Communications systems between a residential dwelling unit and a site, building, or floor entrance shall comply with 708.4.

708.4.1 COMMON USE OR PUBLIC USE SYSTEM INTERFACE. The common use or public use system interface shall include the capability of supporting voice and TTY communication with the residential dwelling unit interface.

708.4.2 RESIDENTIAL DWELLING UNIT INTERFACE. The residential dwelling unit system interface shall include a telephone jack capable of supporting voice and TTY communication with the common use or public use system interface.







LOCATION FOR b DISPENSER OUTLET

- FIRE ALARM A/V STROBE

FLUSH HANDLE AT WIDE SIDE ONLY



CLIMATE ZONE: 2A Hardin County (Warm-Humid) PRESCRIPTIVE METHOD: C402 - C406	AIR LEAKAGE - THERMAL ENVELOPE (Mandatory) C402.5	
INSULATION MATERIAL AND R-VALUES	Air Leakage requirements will be met by: Materials, Asser	mblies Testing during construction
ROOFS	DIAGRAM ILLUSTRATING AIR E	BARRIER
INSULATION ENTIRELY ABOVE ROOF DECK: INA. R25 cil		
METAL BUILDINGS [INA, R-19 + R-11 LS]		
ATTIC AND OTHER: [NA R-38]		
MASS-INA D 5 701		CONTINUOUS AIR
		GAPS, HOLES AND DENETRATIONS
COMPLIANCE OPTION ASSEMBLY: R-25		COMPLETELY SEALED
METAL FRAMED: [NA, R-13 + R-5ci]		D
WOOD FRAMED: [NA, R-13 + R-3.8ci, R-20]	BARRIER WITH	
WALLS, BELOW GRADE	PENETRATIONS COMPLETELY SI	
FLOORS		
MASS: INA R-6 2cil		
	ATTIC SPACE	ATTIC SPACE
		IC RATED FIXTURE CAULKED TO CEILING
	CONDITIONED SPACE	CONDITIONED SPRC
	SCHEMATIC SECTION VIEW	SCHEMATIC SECTION VIEW
PIAED FENESTRATION: U-FACTOR U.50 MIN, U.XX ACTUAL OPERABLE FENESTRATION: U-FACTOR 0.65 MIN, 0.XX ACTUAL ENTRANCE DOODS: U FACTOR 0.00 MIN 0.XX ACTUAL	ROOF THERMAL ENVELOPE	CEILING THERMAL ENVELOPE
ENTRANCE DOURS: U-FACTOR U.83 MIN, U.XX ACTUAL	C402.5 Air Leakage - thermal envelope (Mandatory)	
$PF = [\underline{U}, \underline{U}]$ $PF = A / B$	Continuous air barrier shall be provided throughout the buildin	g envelope. Permitted to be located on inside
	<ul> <li>building envelope, located within the assemblies composing th</li> <li>Air Barrier Construction shall comply with following:</li> </ul>	e envelope, or combination thereof.
SHGC         SEW         N           PF < 0.2	<ul> <li>Continuous for entire thermal envelope and across joints</li> <li>Seams shall be sealed</li> </ul>	
$\begin{array}{cccc} 0.2 \leq PF < 0.5 & [0.30, NA] & [0.37, NA] \\ PF \geq 0.5 & [0.40, NA] & [0.40, NA] \end{array}$	<ul> <li>Penetrations shall be caulked or gasketed</li> <li>Recessed lighting shall be</li> </ul>	
SHGC ACTUAL: 0.24	<ul> <li>IC Rated</li> <li>Labeled having air leakage rate of less than 2.0 cfm</li> </ul>	
SKYLIGHTS	••• Sealed with gasket or caulk between housing and in	terior wall or ceiling covering.
<del>U-FACTOR [ NA, <u>0.65 MIN, </u>0.XX ACTUAL]</del>	<ul> <li>Acceptable Air Barriers Materials (with joints sealed)</li> <li>Min <sup>3</sup>/<sub>8</sub>" thick plywood</li> </ul>	
SHGC [NA, <u>0.35MIN, 0.XX ACTUAL]</u>	<ul> <li>Min <sup>3</sup>/<sub>8</sub>" oriented stranded board (OSB)</li> <li>Min <sup>1</sup>/<sub>8</sub>" ovtruded polyetyrene insulation board</li> </ul>	
	<ul> <li>Min <sup>1</sup>/<sub>2</sub> extruded polystyrene insulation board</li> <li>Min <sup>1</sup>/<sub>2</sub> foil-back polyisocyanurate insulation board</li> </ul>	
ROOF SOLAR REFLECTANCE AND THERMAL EMITTANCE (3-YEAR), OR SOLAR REFLECTANCE INDEX (3-YEAR) FOR LOW SLOPE ROOFS C402.3	<ul> <li>Min 1 <sup>1</sup>/<sub>2</sub>" closed-cell spray foam min density 1.5 pcf</li> <li>Min 4 <sup>1</sup>/<sub>2</sub>" open-cell spray foam density between 0.4 and 4.5 pcf</li> </ul>	
<b>R aged = 0.XX</b> [3-year aged solar reflectance min. 0.55, and 3-year aged thermal emittance min. of 0.75]	Min <sup>1</sup> / <sub>2</sub> " interior or exterior gypsum board	
CALCULATED % OF WINDOWS IN EACH EXTERIOR WALL C402.4	<ul> <li>Built-up roofing membrane</li> <li>Modified bituminous roof membrane</li> </ul>	
Max. allowable % window openings in exterior walls - <b>30%</b> C402.4.1	<ul> <li>Fully adhered single-ply roof membrane (2021 IECC)</li> <li>Min <sup>5</sup><sup>ll</sup> northered some rt (sound normal on sum sum substance)</li> </ul>	
[Not more than 40% of the gross above-grade wall area shall be permitted to be vertical fenestration, provided all of the	<ul> <li>Min a portiand cement / sand parge or gypsum plaster</li> <li>Cast-in-place precast concrete</li> <li>Fully gravited experts block mesons/</li> </ul>	
following requirements are met 1. Building not greater than 2 story above grade, not less than 50% of the net floor	Sheet steel or aluminum	
area is within a daylight zone. [NA] [Complies] [Not Compliant] 2. Building not greater than 3 or more stories above grade, not less than 50% of the net floor	Solid or nollow masonry constructed or clay or shale masonry	units
area is within a daylight zone. [NA] [Complies] [Not Compliant] 3. Daylight responsive controls complying with C405.2.3.1 are installed in daylight zones.	Concrete masonry walls coated with	
<ul> <li>Visible Transmittance (VT) of vertical fenestration is not less than 1.1 times solar heat gain coeficient (SHGC)</li> </ul>	<ul> <li>1 application block filler, or</li> <li>2 applications of a paint or sealer coating</li> </ul>	
[NA] [Complies] [Not Compliant]	<ul> <li>Masonry walls constructed of clay or shale masonry, min 4 inc</li> <li>Portland cement stucco or plaster min <sup>1</sup>/<sub>2</sub>" thick</li> </ul>	hes width
Maximum allowable area of skylight area - 3% of gross roof area		
ACTUAL FENESTRATION CALCULATIONS:	MAXIMUM AIR LEAKAGE RATE FOR FENESTRATIO	ON ASSEMBLIES
NORTH WALL(S): <u>0 %</u> <30% COMPLIES	FENESTRATION ASSEMBLY MAXIMUM RA	TE TEST PROCEDURE
SOUTH WALL(S): <u>0 %</u> <30% COMPLIES	(CFM / FT2	)
EAST WALL(S) <u>5 %</u> <30% COMPLIES	Windows         0.20           Sliding Doors         0.20	AAMA/WDMA/CSA101/
WEST WALL(S) <u>3 %</u> <30% COMPLIES	Swinging Doors         0.20           Skylights -         with condensation	I.S.2/A440 or
ROOF SKYLIGHT 0% <03% COMPLIES	weepage openings         0.30           Skylights -         All others         0.20	NFRC 400
MINIMUM SKYLIGHT FENESTRATION AREA C402.4.2 Enclosed space greater than 2,500 SF floor area directly under roof ?	Curtain Walls 0.06 Storefront Glazing 0.06	NFRC 400
YES NO	Commercial glazed swinging 1.00	OF ASTM F 283 at 1 57 per
Skylight Not Required	Revolving Doors 1.00	(75 Pa)
75% of ceiling area with ceiling height greater than 15 feet YES NO	Garage Doors0.40Rolling Doors1.00	ANSI/DASMA 105, NFRC 400, or
X Skylight Not Required	High-speed doors 1.30	ASTM E283 at 1.57 ps (75 Pa)
Uses as an office, lobby atrium concourse, corridor, storage space, gympasium/eversise center, convention contor		
automotive service area, manufacturing space, nonrefrigerated warehouse, retail store, distribution/sorting area, transportation denot or workshop	C402.5.1.5 BUILDING ENVELOPE PERFORMANCE VERIFICAT	ON
YES NO	Installation of the continuous air barrier shall be verified by:	
Skylight Not Required	<ul> <li>code official, registered design professional, or approved</li> <li>in accordance with the following:</li> </ul>	agency.
	a review of construction documents and other supporting requirements of IECC C402.5.1	data shall be conducted to assess complian
	inspection of continuous air barrier components and asserbarrier is still accessible for inspection and repair to verify	mblies shall be conducted during construction compliance withC402.5.1.3 and C402.5.1.4
TOTAL DAYLIGHT ZONE UNDER SKYLIGHTS SHALL BE OF NOT LESS THAN 3% WHERE SKYLIGHTS HAVE A VT		1
OF AT LEAST 0.40	a final commissioning report shall be provided for inspec approved agency. The commissioning report shall be provided for inspec	tions completed by the registered design pro ovided to the building owner or authorized an
OF AT LEAST 0.40 OR WF (well factor) WF (well factor)	<ul> <li>a final commissioning report shall be provided for inspec approved agency. The commissioning report shall be pro official. The report shall identify deficiencies found during details of corrective measured taken</li> </ul>	tions completed by the registered design pro ovided to the building owner or authorized ag the review of the construction documents ar
TOTAL DAYLIGHT ZONE UNDER SKYLIGHTS SHALL BE         OF NOT LESS THAN 3% WHERE SKYLIGHTS HAVE A VT         OR         WF (well factor)         = MINIUMUM SKYLIGHT EFFECTIVE APERATURE OF AT LEAST 1%,         = 0.85 x Skylight Area x Skylight VT x WF         = 0.9 if light well depth < 2 ft	<ul> <li>a final commissioning report shall be provided for inspec approved agency. The commissioning report shall be pro official. The report shall identify deficiencies found during details of corrective measured taken.</li> </ul>	tions completed by the registered design pro ovided to the building owner or authorized ag the review of the construction documents ar







- Building thermal envelope shall be tested in accordance to ASTM E779, ANSI/RESNET/ICC 380, ASTM • E3158, ASTM E1827 or an equivalent method approved by the code official.
- Measured air leakage shall not exceed 0.40 cfm/ft<sup>2</sup> of building thermal envelope area at a pressure differential of 0.3 inch water gauge.
- Alternatively, portions of the building shall be tested and the measured air leakages shall be area weighted by the surface areas of the building envelope in each portion. The weighted average test results shall not exceed the whole building leakage limit. In the alternative approach, the following portions of the building shall be tested:
- •• The entire envelope area of all stories that have any spaces directly under a roof. The entire envelope area of all stories that have a building entrance, exposed floor, or loading dock, or ••
- are below grade. •• Representative above-grade sections of the building totaling at least 25% of the wall area enclosing the
- remaining conditioned space. • EXCEPTION: Where measured air leakage rate is between **<u>0.40 - 0.60 cfm/ft<sup>2</sup></u>**, a diagnostic evaluation using smoke tracer or infrared imaging shall be conducted while the building is pressurized along with a visual inspection of the air barrier. Any leaks noted shall be sealed where such sealing can be made WITHOUT destruction of existing building components. An additional report identifying the corrective actions taken to seal leaks shall be submitted to the code official and the building owner, and shall be deemed to comply with the requirements of this section.

C402.5.7 VESTIBULES Exception 1. Not required in climate zones 1 & 2.

LEAKAGE RATE F	OR FENESTRATION ASSEM	IBLIES
N ASSEMBLY	MAXIMUM RATE (CFM / FT2)	TEST PROCEDURE
	0.20	AAMA/WDMA/CSA101/
n condensation epage openings others	0.30	or NFRC 400
ng zed swinging rance doors	0.06 0.06 1.00 1.00	NFRC 400 or ASTM E 283 at 1.57 psf (75 Pa)
rs	0.40 1.00 1.30	ANSI/DASMA 105, NFRC 400, or ASTM E283 at 1.57 psf (75 Pa)

- ion documents and other supporting data shall be conducted to assess compliance with the C C402.5.1
- ous air barrier components and assemblies shall be conducted during construction while the air ble for inspection and repair to verify compliance withC402.5.1.3 and C402.5.1.4 g report shall be provided for inspections completed by the registered design professional OR
- he commissioning report shall be provided to the building owner or authorized agent AND building nall identify deficiencies found during the review of the construction documents and inspection and neasured taken.

TM	

C404 SERVICE WATER HEATING (MANDATORY)

C403 MECHANICAL SYSTEMS

C405 ELECTRICAL POWER AND LIGHTING SYSTEMS







	Hardin Co.	Des.Freq.	2		5		10		25		50		100
	Atlas 14	b=	60.1616	b=	69.9627	b=	76.2392	b=	83.1862	b=	86.6505	b =	102.4654
	Zone 2	d=	12.0630	d=	11.8386	d=	11.5414	d=	11.0750	d=	10.5614	d =	10.1473
ATIONS	2019	e=	0.7918	e=	0.7605	e=	0.7403	e=	0.7157	e=	0.6966	e=	0.6447
omb ine d	Time of												
ombined CA	Time of Concent.	i2	Q2	<b>İ</b> 5	Q5	<b>i</b> 1 0	<b>Q</b> 10	<b>i</b> 25	<b>Q</b> 25	<b>i</b> 5 0	<b>Q</b> 5 0	<b>i</b> 100	<b>Q</b> 100
combined CA	Timeof Concent. (min.)	i₂ (in./hr.)	Q2 (c.f.s.)	i₅ (in./hr.)	Q5 (c.f.s.)	i₁₀ (in./hr.)	Q10 (c.f.s.)	i25 (in./hr.)	Q25 (c.f.s.)	i50 (in./hr.)	Q50 (c.f.s.)	i100 (in./hr.)	Q100 (c.f.s.)

					н	ardin	CO.	⊢req =	10											
					At	las 14		b =	76.24		l=b/(t+d) <sup>e</sup>			n=	0.012	HDPE pi	pe			
3						Zone 2		d =	11.54		Tc=10A^0	.1761+15		n=	0.030	earth ditc	h			
						2019		e=	0.740						PIPE					1
	TOTAL		-	Tim e of	C	oncentr	ation					Freq =			DESIGN		RE	MAR	KS	1
	CA	LNGTH		Alon	g s	ewerli	ne		Inlet	Used in	I	Q	No.	Dia.	Slope	Cap.	Vel.		+/-	
		(ft.)			Ì				Time	Design	(in/hr)	(cfs)	(#)	(in.)	%	(cfs)	(ft/sec)		ΛQ	
																				1
	0.14	108	 +	108	1	2.5	(60)=	0.7	22.6	22.6	5.58	0.78	1	12	0.50	2.74	3.48		1.96	
					н	ardin	Co	Freq -	100					1						-
-						arum		rieų –	100		<sup>0</sup>			-						
					A	tias 14		b=	102.47		l=b/(t+d)			n=	0.012	HDPE pi	pe			
3						Zone 2	2	d=	10.15		Tc=10A^0	.1761+15		n=	0.030	earth dito	:h			
						2019		e=	0.645						PIPE					
	TOTAL		-	Timeol	fC	oncenti	ation					Freq =			DESIGN		RE	MAB	IKS	
	CA	LNGTH		Alon	a s	sewerli	ne		Inlet	Used in		Q	No.	Dia.	Slope	Cap.	Vel.		+/-	
		(ft.)			Ī				Time	Design	(in/hr)	(cfs)	(#)	(in.)	%	(cfs)	(ft/sec)		ΛQ	
																				1
	0.14	108	+	108	7	2.5	(60)=	0.7	22.6	22.6	10.81	1.51	1	12	0.50	2.74	3.48		1.23	



69.06 人 20 Scale 1" = 10' X BERNARDINO D. TRISTA 117017 FILE # 23058\_CE\_SITE PROJECT # 23058.000 OWNERSHIP OF DOCUMENTS 1405 Cornerstone Court **Fittz**&Shipman

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Hub Cornerstone Court Beaumont, TX. 77706 Ph. (409) 832-7238 Fax. (409) 832-7303 www.fittzshipman.com	C PROJI	2.00 21052 ECT NUMBER	R

Scale 1" = 10' 6 C.  $\bigstar$ BERNARDINO D. TRISTAN 117017 Aug 07, 2023 PROJECT # 23058.000 FILE # 23058\_CE\_SITE OWNERSHIP OF DOCUMENTS 1405 Cornerstone Court Fittz<sub>@</sub>S hipman Beaumont, TX. 77706 THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF FITTZ & SHIPMAN, INC., AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF Ph. (409) 832-7238 Consulting Engineers and Land Surveyors T.B.P.E. Firm #1160 T.X.L.S. Firm #100186 © COPYRIGHT 2023 FITTZ & SHIPMAN, INC. Fax. (409) 832-7303



AN





## DISTURBED AREA - BACK OF CURB

TEMP. CONSTRUCTION ENTRANCE

- FILTER FABRIC SILT FENCE

OWNERSHIP OF DOCUMENTS

## EROSION CONTROL NOTES

1. CONTRACTOR SHALL DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWP3) IN ACCORDANCE WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES FOR THE SITE. SWP3 PLAN SHALL BE BASED ON THIS DRAWING OF MODIFIED AS REQUIRED. 2. SWP3 SHALL CONTAIN:

A. SITE DESCRIPTION OR PROJECT DESCRIPTION INCLUDING NATURE OF CONSTRUCTION ACTIVITY, POTENTIAL POLLUTANTS AND SOURCES B. DESCRIPTION OF INTENDED PROJECT SCHEDULE

C. ACREAGE OF SITE

D. DATA DESCRIBING SOIL OR QUALITY OF DISCHARGE FROM SITE E. GENERAL LOCATION MAP OF SITE

G. EROSION AND SEDIMENT CONTROLS SELECTED

H. SOIL STABILIZATION METHODS 3. SWP3 PLAN SHALL DESCRIBE PRACTICES TO REDUCE POLLUTANTS IN STORM WATER DISCHARGE, DAILY/WEEKLY SITE INSPECTIONS AND LIST RESPONSIBLE PERSON.

4. CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO TCEQ PRIOR TO DISTURBANCE OF THE SITE. 5. SWP3 PLAN MUST BE RETAINED AT THE CONSTRUCTION SITE AND MADE AVAILABLE TO CITY AND TCEQ INSPECTORS.

6. CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES INDICATED ON THIS PLAN AND SWP3 PLAN PRIOR TO CONSTRUCTION AT SITE. 7 CONTRACTOR SHALL PERFORM PERIODIC MAINTENANCE AND REPAIR AND/OR REPLACE DEVICES WHEN REQUIRED TO CONTAIN SEDIMENTS AND POLLUTANTS ON THE SITE UNTIL CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.

8. CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO TCEQ ONCE CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION. 9. ALL CITY STREETS SHALL BE KEPT FREE OF ALL CONSTRUCTION MATERIALS AND SHALL BE CLEANED AT THE END OF EACH WORK DAY.

TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC)

1. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

2. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS. DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

3. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD. THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).

4. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.

5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

6. ANY PERMANENT RETENTION / DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY.



CONSTRUCTION EXIT (TYPE 3)

## GENERAL NOTES

- 1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
- 2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches
- spread a min. of 4" thick to the limits shown on the plans.
- 3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.

## Construction Entrance/Exits



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ΞĂ **FINISH-OUT YMNASIUM** ISD Φ Ċ ഗ ELEMENTAR ш SILSBEI ISSUED FOR SCHEMATIC DESIGN DATE: DESIGN DEVELOPMENT DATE:\_ BIDS & CONSTRUCTION DATE: 08-07-2023 REVISION: DATE:\_\_\_ REVISION: DATE:\_\_ REVISION: DATE: DRAWINGS SHEET TITL EROSION CONTROL PLAN

SHEET NUMBER

C5.00

21052

**PROJECT NUMBER** 

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SOON AS WORKABLE AND SHALL BE COMPLETED BEFORE 24 HOURS HAVE

WATER AND SANITARY SEWER SPECIFICATION

WATER

- ALL WATER MAINS AND APPURTENANCES SHALL CONFORM TO THE CITY OF SILSBEE SPECIFICATIONS AND STANDARDS SPACING OF WATER LINES AND SANITARY SEWERS WILL BE IN
- ACCORDANCE WITH THE FOLLOWING: 30 T.A.C. SECTION 217.53 (d)(e) TEXAS COMMISSION ON ENVIRONMENTAL QUALITY 30 T.A.C. SECTION 290.44 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER MAINS 4 INCH DIAMETER AND LARGER SHALL BE PVC PIPE AND SHALL CONFORM TO AWWA C-900, CLASS 150. WATER LINES LESS
- THAN 4 INCH DIAMETER SHALL BE PVC SDR-26 CLASS 160. WATER SERVICE LINES SHALL BE CLASS 200 PE TUBING. VALVES SHALL BE AWWA C500 IRON -BODY GATE VALVES WITH NON-4.
- RISING STEM.
- FITTINGS SHALL BE DUCTILE IRON AND CONFORM TO AWWA C110. 5. PRESSURE RATING OF VALVES. FITTINGS AND APPURTENANCES IS TO EQUAL OR EXCEED PRESSURE RATING OF ADJACENT WATER LINE.
- PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURES. CONCRETE SHALL BE 5 SACK/C.Y. MIN 3,000 PSI @ S8 DAYS.
- PRESSURE TESTING AND STERILIZATION OF WATER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF SISBEE ITEM 809 AND AWWA C651 UNDER SUPERVISION OF THE CITY OF SILSBEE. CONTRACTOR SHALL GIVE MIN. 24 HOURS NOTICE TO THE CITY OF SILSBEE AND SHALL PERFORM PRESSURE TESTS AND STERILIZATION AND FURNISH ALL MATERIALS AND EQUIPMENT FOR SAME. THE CONTRACTOR WILL BE RESPONSIBLE FOR BACTERIOLOGICAL SAMPLES AND TESTING.
- ALL WATER TRENCHES CROSSING BENEATH THE PAVING SHALL BE BACKFILLED WITH A CEMENT STABILIZED BACKFILL MATERIAL FROM TOP OF SAND ENVELOPE ENCASEMENT TO THE BOTTOM OF PAVEMENT GRADE. CEMENT STABILIZED SAND SHALL NOT CONTAIN LESS THAN 2 SACKS PER CUBIC YARD OF TOTAL MIXTURE.
  - 10. PLUMBER TO MAKE FINAL TIE-IN TO METER.
  - ALL WATER AND SANITARY SEWER LINES WILL BE TESTED PRIOR TO CITY 11. ACCEPTANCE.
  - ALL SERVICE LINES TO BE INSTALLED PER CITY OF LIBERTY BUILDING 12. CODES.
- 13. FIRE HYDRANTS TO BE AMERICAN DARLING B-84-B.
- 14. WATER METER PROVIDED AND INSTALLED BY CITY OF SILSBEE AT CONTRACTORS EXPENSE. CONTRACTOR SHALL STAKE LOCATION OF WATER METERS AS REQUIRED BY CITY OF SILSBEE PRIOR TO INSTALLATION.

### WASTEWATER

- 1. ALL SANITARY SEWER PIPE, MANHOLES, APPURTENANCES AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENT OF THE CITY OF SILSBEE.
- AN AIR PRESSURE TEST OF ALL SANITARY SEWER LINES WILL BE PERFORMED IN ACCORDANCE WITH THE CITY OF SILSBEE SPECIFICATIONS. THE ENGINEER SHALL BE GIVEN 24 HOURS ADVANCE NOTICE OF THE PRESSURE TESTS AND SHALL OBSERVE THE TESTS TO MEET THE REQUIREMENTS OF THE CITY OF SILSBEE SPECIFICATIONS BEFORE SANITARY SEWER LINE IS CONSIDERED ACCEPTABLE
- ALL SANITARY SEWER TRENCHES CROSSING BENEATH ROAD PAVING SHALL BE BACKFILLED WITH CEMENT STABILIZED BACKFILL MATERIAL FROM THE BOTTOM OF TRENCH TO THE BOTTOM OF PAVEMENT GRADE. CEMENT STABILIZED SAND SHALL NOT CONTAIN LESS THAN 2 SACKS CEMENT PER CUBIC YARD 4. ALL CITY OF SILSBEE COLLECTOR GRAVITY SEWER PIPE LINES
- SHALL BE ASTM D-3034, SDR-26 PVC. ALL SERVICE LINES SHALL BE SCH 40 PVC
- 5. ALL CONCRETE SHALL BE CLASS "A" (5 SACK, 3000 PSI @ 28 6. ALL REINFORCING SHALL BE GRADE 60
- 7. 24 HOURS NOTICE IS REQUIRED PRIOR TO ANY INSTALLATIONS OR INSPECTIONS.

GENERAL WATER/SEWER CONSTRUCTION NOTES:

- ELECTRICAL AND GAS LINES SHALL BE 12" BELOW PUBLIC WATER & SANITARY (TYPICAL).
- 2. ALL WATER AND SEWER PIPES SHALL HAVE MINIMUM 3 FEET OF COVER
- 3. THE LOCATION OF ALL EXIST. SERVICE LINES SHOWN ARE APPROXIMATE.



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SILSBEE ELEMENTARY GYMNASIUM FINISH-OU		Silsbee ISD	770 South 7th Street Silsbee, T.
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![](_page_13_Figure_3.jpeg)

![](_page_14_Figure_0.jpeg)

VALL-PACK LIGHT FIXTURE REF. ELECTRICAL			
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	EJ EJ EJ		
NALL-PACK LIGHT FIXTURE REF. ELECTRICAL		WALL-PACK LIGHT FIXTURE REF. ELECTRICAL	
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WNERSHIP OF DRAWINGS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ARCHITECTURAL ALLIANCE INCORPORATED AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF ARCHITECTURAL ALLIANCE INCORPORATED.

![](_page_14_Figure_4.jpeg)

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![](_page_15_Picture_4.jpeg)

![](_page_16_Figure_0.jpeg)

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![](_page_16_Figure_3.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Figure_10.jpeg)

	350 Pine Street, Suite 720 Edison Plaza Beaumont, Texas 77701	TEL (409) 866-7196 FAX (409) 866-1745 J. ROB CLARK, AI.A. RONALD M. JONES, AI.A.	www.architectall.com Architectural Alliance Inco	
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	A LECOLULATION	RED ARC ND M. Jo 73662 F OF TC 8/7/2		_
	SILSBEE ELEMENTARY GYMNASIUM FINISH-OUT	Silsbee ISD	70 South 7th Street Silsbee, TX 77656	
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## GENERAL NOTES

••IBC 2021

•• 20 P.S.F.

**BUILDING CODE** BUILDING CODE USED

**DESIGN LIVE LOADS** 

### CONCRETE

ROOF ·····

CONCRETE FOR FOOTINGS SHALL NOT CONTAIN MORE THAN 20% FLY ASH. ALL OTHER CONCRETE SHOWN AND CALLED FOR ON S SHEETS SHALL NOT CONTAIN FLY ASH. CONCRETE FOR SLAB SHALL NOT CONTAIN ENTRAINED AIR. COMPRESSIVE STRENGTH OF CONCRETE TESTED AT 28 DAYS SHALL BE AS FOLLOWS: FOOTINGS • • • • • • • • • • • • • 3000 PSI (W/C = 0.50 MAX)

SLAB ON GRADE • • • • • • • • • • • 3500 PSI (W/C = 0.45 MAX)

THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULKHEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS REQUIRED. SEE TYPICAL DETAIL

### REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE GRADE 60 (#2 AND #3 BARS AND ALL STIRRUPS AND TIES SHALL BE GRADE 40) AND SHALL CONFORM TO THE ASTM SPECIFICATIONS A615. DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL. PROVIDE 1-#6 X 4'-0" (2'La ) TOP AND BOTTOM IN EXTERIOR FACE OF GRADE BEAMS AT CORNERS.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATIONS A185 AND DELIVERED TO THE JOB SITE IN FLAT SHEETS.

PROVIDE STANDARD APPROVED BAR CHAIRS WITH ROUND FEET AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS ON GRADE. DEPTH OF CHAIRS SHALL PROVIDE FOR 1" TOP COVER TO REINFORCING FOR SLABS ON GRADE.

LAP CONTINUOUS UNSCHEDULED REINFORCING BARS 40 BAR DIAMETERS AT SPLICES.

REINFORCING STEEL COVERAGE SHALL BE AS FOLLOWS

GRADE BEAMS · · · · · · · · 1 1/2" TOP, 3" BOTTOM, 2" SIDES (IF EARTH FORMED, BEAM WIDTH MUST BE INCREASED 2" TO PROVIDE 3" SIDE COVER, OUTSIDE FACE OF GRADE BEAM SHALL BE FULLY FORMED)

#### FOOTINGS · · · · · · · · · · · · · · · · · · 3" **MISCELLANEOUS**

CONSTRUCTION MEANS AND METHODS ARE NOT PART OF THE STRUCTURAL ENGINEERS SCOPE OF WORK. THE GENERAL CONTRACTOR AND HIS SUB CONTRACTORS ARE FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO CONSTRUCT THE STRUCTURE.

ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE. DETAILS SHALL APPLY TO SIMILAR AND LIKE CONDITIONS. FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, AND THE LOCATION OF DEPRESSED FLOOR

THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLING STRUCTURAL MEMBERS.

### SUBGRADE | FILL | SITE PREPARATION

THE BUILDING AREA SHALL BE STRIPPED OF ALL VEGETATION, TOPSOIL, CONCRETE AND UNDERLYING POOR-QUALITY FILL. ANY ROOTS LARGER THAN ONE-HALF INCH IN DIAMETER SHALL BE GRUBBED. ALL SOFT SPOTS IN THE SUBGRADE SHALL BE EXCAVATED TO FIRM SOIL. THE EXPOSED SUBGRADE SHALL BE STRIPPED TO A DEPTH OF TWENTY FOUR (24) INCHES. SCARIFY THE SUBGRADE. AND MOISTURE CONDITIONED TO NOT LESS THAN THE OPTIMUM MOISTURE CONTENT. THE SUBGRADE SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D 698.

A MINIMUM OF TWENTY FOUR (24) INCHES OF COMPACTED SELECT FILL SHALL BE PLACED BELOW THE FLOOR SLAB FROM THE PREPARED SUBGRADE TO THE BOTTOM OF THE SLAB. . SELECT FILL MATERIAL SHALL BE EXTENDED 5 FEET BEYOND THE BUILDING PERIMETER INCLUDING THE COURTYARD. SELECT FILL SHALL BE COMPOSED OF A CLEAN, INACTIVE CLAY SOIL (NOT A SILT) WITH A PLASTICITY INDEX BETWEEN 10 AND 20. THE FILL SHALL BE PLACED IN THIN LIFTS NOT EXCEEDING FIGHT INCHES LOOSE MEASURE MOISTURE CONDITIONED TO ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM STANDARD PROCTOR DENSITY. TOTAL FILL THICKNESS MIGHT EXCEED THE MINIMUM AMOUNT OF FILL DEPENDING ON FINISH FLOOR ELEVATION AND EXISTING GRADES. REFER TO SITE SURVEY AND SITE DRAWINGS.

#### SOIL BEARING PRESSURE

A SOIL BEARING PRESSURE OF 2500 P.S.F. FOR DEAD LOAD PLUS TOTAL LIVE LOAD WAS ASSUMED TO SIZE

### REPRODUCTION NOTE

FOOTINGS.

THE USE OF THESE CONTRACT DRAWINGS IN LIEU OF PREPARATION OF SHOP DRAWINGS CONSTITUTES ACCEPTANCE THAT ALL INFORMATION SHOWN HEREON IS CORRECT. AND CONSTITUTES ACCEPTANCE OF ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO THEIR USE. SHOP DRAWINGS MAY NOT BE PRODUCED BY USING REPRODUCTIONS OF THESE CONTRACT DRAWINGS. ANY SHOP DRAWINGS SUBMITTED FOR APPROVAL, WHICH WERE PRODUCED IN THIS MANNER, WILL BE REJECTED.

#### **USE OF CADD FILES**

UPON THE SIGNING OF A RELEASE, FITTZ & SHIPMAN, INC. WILL PROVIDE CADD FILES STRIPED OF TITLE BLOCKS AND SEALS. A FEE WILL BE ACCESSED IN ACCORDANCE WITH THE FOLLOWING FEE SCHEDULE: AFTER SIGNING A RELEASE OF LIABILITY, THE MINIMUM CHARGE FOR 1 SHEET IS \$100. EACH ADDITIONAL SHEET COST \$50 EACH. SALES TAX WILL BE ADDED TO THE ABOVE FEES UNLESS A SALES TAX EXEMPT CERTIFICATE IS PROVIDED.

![](_page_18_Figure_28.jpeg)

![](_page_18_Figure_29.jpeg)

![](_page_18_Figure_31.jpeg)

![](_page_18_Figure_33.jpeg)

EXISTING CO	ONSTRUCTIO
E: 8/72023 10:58 AM	

![](_page_19_Figure_1.jpeg)

ON

## FOUNDATION PLAN

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

- 1. XX/XX ON PLAN INDICATES PLINTH DIAMETER IN INCHES / FOOTING DIAMETER IN INCHES. SEE 1/S1 FOR FOOTING REINFORCEMENT.
- 2. FOOTINGS ARE CENTERED UNDER GRADE BEAM UNLESS OTHERWISE NOTED.
- 3. MAXIMUM SLAB SLOPE TO FLOOR DRAIN SHALL NOT EXCEED 1/4" PER FOOT.
- 4. SEE ARCH. AND MEP DRAWINGS FOR
- FLOOR DRAINS NOT SHOWN. 5. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
- 6. VERIFY ALL BRICK LEDGES WITH ARCH. DRAWINGS

![](_page_19_Picture_12.jpeg)

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DRAWINGS SHEET TITLE FOUNDATION PLAN SHEET NUMBER
<b>I</b> \$2

![](_page_20_Figure_0.jpeg)

## ARCHITECT HAS REVIEWED THE CONSULTANT'S WORK AND COORDINATED IT WITH THE OVERALL PROJECT YMNASIUM FINISH-OUT <u>S</u> Ċ ARY **ELEMENT** SILSBEE **ISSUED FOR** SCHEMATIC DESIGN date: <u>4-9-2023.</u> DESIGN DEVELOPMENT DATE:\_\_ BIDS & CONSTRUCTION X DATE: 8-7-2023 **REVISION:** DATE:\_\_\_ **REVISION:** DATE:\_ **REVISION:** DATE:\_\_ **DRAWINGS SHEET TITLE** MEP SITE PLAN & NOTES Engineering, Inc. SHEET NUMBER MEP. BEAUMONT, TEXAS 77708-4411 PHONE: (409) 673-2013 21052

![](_page_20_Picture_3.jpeg)

MEPTech

TBPE FIRM # F-10227

5090 ADA AVENUE

FAX: (409) 767-9224

PROJECT NUMBER

SITE PLAN NOTES

(SP1) FIELD VERIFY EXACT LOCATIONS OF EXISTING WATER PIPING, SANITARY SEWER AND POWER LINES PRIOR TO MAKE FINAL INSTALLATION. REFER TO CIVIL DRAWINGS FOR SITE UTILITIES EXACT REQUIREMENTS.

SP2 COORDINATE WITH SILSBEE, TEXAS ENTERGY AT TEL. (409) 353-2823 FOR THE UTILITY COMPANY REQUIREMENTS RELATING TO THE UNDERGROUND ELECTRICAL

SP3 INSTALL (1)-2" EMPTY CONDUIT WITH PULL STRING FROM GYMNASIUM TECHNOLOGY CLOSET DOWN UNDERGROUND UP WALL TO INSIDE BUILDING UP WALL TO ABOVE CEILING DOWN TO IDF/MDF ROOM AND TERMINATE TO EXISTING TELEPHONE. FIELD COORDINATE

(SP4) ALL ELECTRICAL CUT-OFFS AND SWITCH-OVERS SHALL BE REVIEWED AND COORDINATED WITH ALL TRADES IN ADVANCE OF ANY NEEDS TO AVOID UNWARRANTED INTERRUPTION OF

(SP5) RE-ADJUST/RE-AIM EXISTING TWO FLOODLIGHTS AS SHOWN. FIELD CONFIRM WITH OWNER EXACT REQUIREMENTS TO LIGHT CERTAIN AREAS.

MEP DEMOLITION NOTES

D1 REFERENCE ARCHITECTURAL SHEETS FOR DEMOLITION AND RENOVATION OF EXISTING WALLS, CEILINGS AND FLOORS. THE FINAL MEP SYSTEMS AFTER NEW WORK AND DEMOLITION SHALL MEET ALL LOCAL/STATE CODE, 2015 UNIFORM MECHANICAL/PLUMBING CODES AND 2020 NATIONAL ELECTRICAL CODE.

D2 REMOVE EXISTING MECHANICAL/PLUMBING SYSTEMS IF THERE IS ANY OR NOT BEING USED UNLESS NOTED OTHERWISE IN MECHANICAL/PLUMBING DRAWINGS.

D3 REMOVE EXISTING LIGHT FIXTURES AND RELATED SWITCHES, JUNCTION/PULL BOXES, CIRCUITS, CONDUIT AND CONDUCTORS ON DEMOLISHED CEILING AND/OR WALLS. REFER TO LIGHTING

DA REMOVE EXISTING ELECTRICAL, TECHNOLOGY, SECURITY AND FIRE ALARM DEVICES AND RELATED

SWITCHES/CONTROLS, JUNCTION/PULL BOXES, CIRCUITS, CONDUIT, CABLING AND CONDUCTORS ON

DEMOLISHED CEILING AND/OR WALLS. REFER TO POWER AND COMMUNICATIONS FLOOR PLAN FOR NEW REQUIREMENTS. EXISTING TECHNOLGY, SECURITY AND FIRE ALARM CONTROLS PANELS AND/OR EQUIPMENT TO BE REMOVED BY OWNER'S VENDORS. FIELD COORDINATE WITH OWNER.

REMOVE EXISTING PANEL AND RELATED FEEDER CONDUIT AND CONDUCTORS FROM EXISTING SWITCHGEAR LOCATED INSIDE EXISTING MAIN BUILDING. REUSE EXISTING FEEDER CONDUIT AS MUCH AS POSSIBLE. FIELD CONFIRM EXACT REQUIREMENTS.

ELECTRICAL SERVICE AND POLE MOUNTED TRANSFORMERS.

EXACT TERMINATION PRIOR TO MAKE FINAL INSTALLATION.

FLOOR PLAN FOR NEW REQUIREMENTS.

POWER.

**D**5

SERVICE. OWNER WILL PAY ANY FEES PAYABLE TO ENTERGY REGARDING UNDERGROUND

![](_page_21_Figure_0.jpeg)

				porateo
		MECHANICAL NOTES		
M1	THE EXACT MOUN BE FIELD VERIFIE	TING HEIGHTS AND/OR LOCATIONS OF ALL HVAC EQUIPMENT ED AND COORDINATED WITH ALL OTHER MECHANICAL, ELEC	T SHALL CTRICAL,	
M2)	THE FINAL LOCATI	AND STRUCTURAL STSTEMS. ON OF AIR DEVICES AND ROUTING OF DUCTS MUST BE COOI LOCATION OF EXISTING LIGHT FIXTURES, PLUMBING PIPING, ARCHI SYSTEMS DRIOD TO MAKE FINAL INSTALLATION.	RDINATED TECTURAL	hitectur
(M3)	ALL ACCESS DOC AND INSTALLED E HVAC CONTRACTO PROPER ACCESS	DRS REQUIRED IN GENERAL CONSTRUCTION ARE TO BE P BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY DR TO IDENTIFY SIZE, TYPE AND LOCATION OF SUCH DOO TO ALL CONCEALED HVAC FOUIPMENT, VALVES AND OTHER I	PROVIDED OF THE DRS FOR RELATED	Mile 720 23 16 77701 17196 17196 17166 1716 183, A.I.A 118, A.I.A 118, A.I.A 118, A.I.A
	EQUIPMENT. THE COORDINATED SH	HVAC CONTRACTOR SHALL IDENTIFY THESE REQUIREMENT IOP DRAWING PRIOR TO SYSTEM FABRICATION AND INSTAL	S ON A LATION.	) Phne Streed, E Edison Pis seumort, Texa seumort, Texa J. ROB CLARY NVLLD M. JON Www.architecta
M4	THE EXACT SIZES BE COORDINATED FRAMES AROUND	AND LOCATIONS OF ALL WALL AND/OK KOUF OPENINGS REQUIR AND APPROVED BY GENERAL CONTRACTOR AND OWNER. STRU ALL OPENINGS SHALL BE FURNISHED AND INSTALLED AS RE	ED MUST JCTURAL EQUIRED.	× × ×
(M5)	PROVIDE SLEEVES PROVIDE ESCUTC CEILINGS.	AND FLASHING REQUIRED FOR PIPING AND DUCTWORK PENET HEON PLATES FOR ALL PIPING PENETRATING FINISHED WAI	RATIONS. LS AND	
(M6)	VERIFY ALL EQUI ORDERING ALL H FOR PROVIDING EQUIPMENT AS F VOLTAGE WIRING. ALL TRADES.	PMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR PRIVAC EQUIPMENT. ELECTRICAL CONTRACTOR WILL BE RESP AND INSTALLING ALL POWER AND CONTROL CONDUIT FO REQUIRED. HVAC CONTROLS CONTRACTOR WILL INSTALL C HVAC CONTRACTOR SHALL COORDINATE ALL REQUIREMENT	RIOR TO ONSIBLE OR HVAC CONTROL TS WITH	
M7	ONLY THE MANUF APPROVED FOR MANUFACTURERS APPROVAL IN WRIT THE BID DATE FO	ACTURERS LISTED ON CONTRACT DRAWINGS OR SPECIFICATIO BIDDING UNLESS INSTRUCTED OTHERWISE BY OWNER. ALL WILL BE CONSIDERED AS SUBSTITUTIONS AND MUST HAVI TING SUBMITTED TO THE OWNER AS SOON AS POSSIBLE BEFO OR ENGINEER'S APPROVAL.	NS ARE OTHER E PRIOR DRE THE	
(M8)	MAINTAIN MANUF/ ALL DUCT SIZES	ACTURER'S RECOMMENDED CLEARANCE AROUND HVAC EQU NOTED ARE INSIDE CLEAR DIMENSIONS.	JIPMENT.	ARCHITECT HAS REVIEWED THE CONSULTANT'S WORK
(M9)	ALL INTERIOR SU UNLESS GALVANIZ ITEMS SHALL BE OR DAMAGED WI PAINT.	JPPORTS, CLAMPS AND RELATED ITEMS SHALL BE SHOP ED CONSTRUCTION. ALL EXTERIOR SUPPORTS, CLAMPS AND OF GALVANIZED CONSTRUCTION. COAT ANY FIELD WELD TH GALVANIZED COATING WITH TWO COATS ZINC RICH CH	PRIMED RELATED S, CUTS ROMATE	THE OVERALL PROJECT
M10	Double Wall Di Insulation. Semo Columbia Blue.	UCT UNITED McGILL SPIRAL LOCKSEAM (ACCOUSTI—K27) W CO & LINDAB ARE APPROVED EQUAL MANUFACTURERS. DUCT	/ITH 1" COLOR	UT
M11)	IN EXIST. GYMNAS A SINGLE ALL-TH FASTENERS WITH WILL BE INSTALL DUCTWORK CONS	GIUM, ALL EXPOSED ROUND METAL DUCTWORK SHALL BE HUI HREAD/EYE BOLT UPPER HANGER ATTACHMENTS AND LOAD RECOMMENDED SPACING. ALL HANGERS, RODS, AND DU LED PER THE LATEST EDITION OF THE SMACNA LOW PRI STRUCTION STANDARDS.	NG WITH ) RATED CTWORK ESSURE	IO-HSII
M12)	FURNISH AND IN AS SHOWN ON P TO BE INTEGRATED VAULT ROOM. FIE BIDDING.	STALL TEMPERTURE/HUMIDISTAT THERMOSTAT/SENSOR AT LO LAN. NEW THERMOSTATS/SENSORS, PAC-1 AND PAC-2 CO D TO EXISTING MAIN HVAC JONHSON CONTROLS LOCATED IN 1 LD CONFIRM EXACT REQUIREMENTS WITH OWNER PRIOR TO	OCATION ONTROLS EXISTING SUBMIT	
(M13)	PROVIDE 1" INS MECHANICAL CONT DRAIN SYSTEM.	SULATED CONDENSATE DRAIN LINE TO CONDENSATE RE TRACTOR TO INSTALL AND RUN DRAIN PIPING TO NEAREST AF	CEIVER. PPROVED	NASI
(M14)	PROVIDE TRANS PAC-1 CURB. CC SUBMIT BIDDING	ITION DUCT FOR SUPPLY AND RETURN DUCT CONNECT ONFIRM EXACT REQUIREMENTS WITH UNIT MANUFACTURER PR AND/OR MAKE FINAL INSTALLATION.	ION TO RIOR TO	`GYM sbee ISD
	<b></b>			[ARγ S⊯
		REFERENCE TO DETAIL		
	M.1			
		BY DIVISION 15		
		EQUIPMENT FORNISHED BY OTHER DIVISIONS		
		THERMOSTAT, 48" AFF. NUMBER DENOTES UNIT		LSI
		ABOVE EINISHED ELOOR		South 1
	PAC	ABOVE FINISHED FLOOR		S   S   S   S   S   S   S   S   S   S
	RAG	RETURN AIR GRILLE		
	—cd—	CONDENSATE DRAIN PIPING		SCHEMATIC DESIGN X
		REFRIGERANT FILTER/DRYER		DESIGN DEVELOPMENT
		THERMOSTATIC EXPANSION VALVE		DATE:
		SIGHT GLASS AND MOISTURE INDICATOR SUPPLY AIR DEVICE WITH TYPE AND CFM		BIDS & CONSTRUCTION X DATE: <u>8-7-2023</u> REVISION:
		RETURN AIR DEVICE WITH TYPE AND CFM		DATE: REVISION: DATE:
	12/12	SUPPLY DUCTWORK WITH DIMENSION (WIDTH×DEPTH)		REVISION:
	12/12	RETURN DUCTWORK WITH DIMENSION (WIDTHxDEPTH)		UATE:
		MANUAL VOLUME CONTROL DAMPER		
		FIRE DAMPER IN VERTICAL SEPARATION		DRAWINGS SHEET TITLE
	FD	FIRE DAMIFER IN VERTICAL SELANDING		MECHANICAL
	رردش			FLOOR PLAN, NOTES & SYMBOLS
		A ATE OF TELLOS		
		L. L. LASERNA	TBPE FIRM # F-10227 5090 ADA AVENUE	
		SS/ONAL ENG	BEAUMONT, TEXAS 77708-4411 PHONE: (409) 673-2013 FAX: (409) 767-9224	<b>IVI. I</b>

MARK	TON	MFR. & MODEL #	O.A CFM	EXHAUST FAN AIRFLOW	TOTAL CFM	мо
PAC-1	25.0	DAIKIN LCH300H4M	700	700 CFM	10,000	
<u>NOTES:</u> 1.) PROVII 2.) PROVII 3.) HIGH 4.) PROVII 5.) HORIZ 6.) 30" H 7.) FYHAN	DE COPPER ( DE FACTORY PERFORMANC DE COMMERC ONTAL RELIEF IGH CURB. B	CONDENSATE DRAIL INSTALLED RETURI E/SINGLE SENSIBL IAL TOUCHSCREEN DAMPERS & HO OTTOM SUPPLY &	N WITH N DUCT E ECON THERMO RIZONTAI	TRAP AND ( SMOKE DET OMIZER, BE DSTAT. _ RETURN A N.	CLEANOUT TECTOR, I LT DRIVE	T. NON- , UN L KI

7.) EXHAUST FAN - ADJUST FAN AIRFLOW TO 600 CFM.

MARK	DI
A	SUPF REG
B	WALL AIR
<u>NOTES:</u> 1.	PROVIDE H

MARK
FD-1
FD-2
NOTES

OUTDOUR AIR INTARE FLOW REQUIREMENTS									
UNIT AREA	$R_p \times P_z + R_a \times A_z = V_{bz}$	V <sub>bz</sub> /E <sub>z</sub>	= V <sub>oz</sub>	=	Vot				
PAC-1 MULTIPURPOSE ASSEMBLY	$5 \times 60 + 0.06 \times 6200 = 672$ CFM	672/1	= 672 CFM	=	672 CFM				
TOTAL OUTDOOR AIR INTAKE IN CFM: PACU-1				=	672 CFM				
<u>PACU-1:</u> OUTDOOR AIR INTAKE REQUIRED PER 2015 INTERNATIONAL MED OUTDOOR AIR INTAKE PROVIDED = $700$ CFM	HANICAL CODE SECTION $403.3 = 672 \text{ CFM}$								
$R_p$ = PEOPLE OUTDOOR AIR RATE: THE OUTDOOR AIRFLOW F $P_z$ = ZONE POPULATION: THE LARGEST NUMBER OF PEOPLE $R_q$ = AREA OUTDOOR AIR RATE: THE OUTDOOR AIRFLOW RAT $A_z$ = ZONE FLOOR AREA: THE NET OCCUPIABLE FLOOR AREA $V_{bz}$ = BREATHING ZONE OUTDOOR AIRFLOW IN CFM $E_z$ = ZONE AIR DISTRIBUTION EFFECTIVENESS FROM TABLE 4 $V_{oz}$ = DESIGN ZONE OUTDOOR AIRFLOW IN CFM $V_{ot}$ = OUTDOOR AIR INTAKE FLOW IN CFM	$R_{p} = PEOPLE OUTDOOR AIR RATE: THE OUTDOOR AIRFLOW RATE REQUIRED PER PERSON FROM TABLE 403.3.1.1 IN CFM/PERSON$ $P_{z} = ZONE POPULATION: THE LARGEST NUMBER OF PEOPLE EXPECTED TO OCCUPY THE ZONE DURING TYPICAL USAGE$ $R_{d} = AREA OUTDOOR AIR RATE: THE OUTDOOR AIRFLOW RATE REQUIRED PER UNIT AREA AS DETERMINED FROM TABLE 403.3.1.1 IN CFM/SQUARE FEET$ $A_{z} = ZONE FLOOR AREA: THE NET OCCUPIABLE FLOOR AREA OF THE SPACE OR SPACES IN THE ZONE IN SQUARE FEET$ $V_{bz} = BREATHING ZONE OUTDOOR AIRFLOW IN CFM$ $E_{z} = ZONE AIR DISTRIBUTION EFFECTIVENESS FROM TABLE 403.3.1.2 - SUPPLY OF COOL AIR = 1.0$ $V_{oz} = DESIGN ZONE OUTDOOR AIRFLOW IN CFM$ $V_{ot} = OUTDOOR AIR INTAKE FLOW IN CFM$								

PACKAGED UNIT SCHEDULE																			
FAN	DATA			С	OOLING DA	ΤΑ				ELECTRIC HEA	ΛT	UNIT	ELE	CTRIC	CAL DA	TA			D
ORS	EXT. S.P.	H.P.	ENT. AIR DB/WB <sup>•</sup> F	LEAVING AIR DB/WB 'F	AMBIENT TEMP. <sup>•</sup> F	TOTAL CAP. (MBh)	SENSIBLE CAP. (MBh)	SIZE (KW)	OUTPUT MBH	HEAT STAGES	HEAT RISE (*F)	VOLTS	PH.	Hz.	MCA	MOCP	IEER	TYPE	00 "
6	1.0	10.0	80/67	58.5/58.0	95	329.4	266.8	30.0	76.9	2	76.9	208	3	60	143	150A	14.4	R410A	

N-FUSED DISCONNECT SWITCH & FIELD POWERED 115V GFCI/WP RECEPTACLE.

INIT ORIENTATION HORIZONTAL, ENVIRON CONDENSER COIL SYSTEM, HUMIDITROL & 2" MERV4 FILTER.

KIT.

8.) LIMITED WARRANTY ON COMPRESSOR/ECONOMIZER OF 5 YEARS. LIMITED WARRANTY ON ALL OTHER COMPONENTS 1 YEAR.

AIR DISTRIBUTION DEVICE SCHEDULE									
DUTY	MAKE AND MODEL NO.	FACE SIZE (INCH)	NECK SIZE (INCH)	MOUNTING STYLE	MATERIAL OF CONSTRUCTION	REMARKS			
SUPPLY AIR REGISTER	TITUS 272 RS	24x12	22x10	FLUSH	STEEL	DOUBLE DEFLECTION 3/4" BLADE SPACING			
WALL RETURN AIR GRILLE	TITUS 350 RL	42x36	40x34	FLUSH	STEEL	3/4" BLADE SPACING			
VIDE HEAVY GUAGE	IMPACT RESISTANT	WALL RETURN AIR GRILLE.							

COMBINATION FIRE SMOKE DAMPER SCHEDULE PRESSURE RANGE "H<sub>2</sub>0 DUCT FUNCTION SIZE (INCH) POWER CONTROL OPTIONAL ACCESSORY WHERE CLASSIFICATION MATERIAL REMARKS INSTALLED FIRESTAT & ACTUATOR | 120V GALV. STEEL DUCT THRU WALL SUPPLY 2.5-4.00 1 1/2 HR. 30 x 30 RUSKIN FSD 35 DUCT THRU WALL RETURN 2.5-4.00 1 1/2 HR. FIRESTAT & ACTUATOR 120V GALV. STEEL 48 x 48 1. JAMB SEALS AT CLASS III LEAKAGE. 2. DAMPER SHALL BE SIZED TO PROVIDE EQUIVALENT FREE AREA OF DUCT. 3. U.L. LISTED DAMPER, SLEEVE AND OPERATOR ASSEMBLY IN ACCORDANCE WITH U.L. 555.

## OUTDOOD AID INTAKE ELOW DEOLIDEMENTS

RAIN ONN. NPT	UNIT WEIGHT	NOTES
1	3,699 LBS.	1–8

			Architectural Alliance Incorporat
350 Pine Street, Suite 720 Edison Plaza Besumont, Taxas 77701	TEL (400) 806-7196 FAX (409) 896-1745	J. ROB GLARY, ALA. RONALD M. JONES, ALA.	www.archilectal.com A
Archi The C And C The	tect has consultan cordinate overall	reviewei t's work ed it wit project	<b>8</b>
SILSBEE ELEMENTARY GYMNASIUM FINISH-OUT		Silsbee ISD	South 7th Street Sliebee, TX 77656
IS SCHEMA DATE: 4 DESIGN DATE: - BIDS & C DATE: - REVISIO DATE: - REVISIO DATE: - REVISIO DATE: -	SUED F TIC DESI -9-2023. DEVELOF CONSTRU N: N:	FOR GN PMENT CTION	
DRAWIN ME SC		ICA JLES MBER	TE L S
PRO	2105 JECT N	2 UMBEF	ـــــــــــــــــــــــــــــــــــــ

![](_page_22_Picture_19.jpeg)

![](_page_23_Figure_0.jpeg)

1 CONDENSATE DRAIN PIPING SCALE: NOT TO SCALE

1. CONTRACTOR QUALI a. Be a specialis personnel to b. Coordinate wit functioning sy	FIC st cc :h
1. CONTRACTOR QUALIF a. Be a specialis personnel to b. Coordinate wit functioning sy	FIC st cc :h
a. Be a specialis personnel to b. Coordinate wit functioning sy	st cc :h st
b. Coordinate wit functioning sy	th st
c. All materials of provided by r	on ep
d. The mechanic followed as c	al Ios
e. Any changes made without	re a
f. Install all equi accordance wi	ipr th
g. The design is bear all costs if the contract	b o or
2. CORRECTIONS AND	M
a. The guarantee completion of	t
b. Corrections to the owner.	) 1
c. Response time	Э
3. SHOP DRAWINGS AN	۱D
a. Provide submi for review by	itt o
4. CONDENSATE DRAIN	F
a. Type L coppe a water seal	r tro
b. Insulate same	C
c. Provide conde sized equal to	ns D
5. DUCTWORK SYSTEM	5
a. Coordinate th of the projec	e t.

![](_page_23_Figure_6.jpeg)

MECHANICAL SPECIFICATIONS								
CATIONS		<ul> <li>b. Construct and install systems in accordance with SMACNA and other referenced standards.</li> </ul>						
in this field and provide trained, experienced and skilled	c	c. Provide turning vanes in all square elbows.						
other divisions of work to provide a complete and tem.	C	d. All supply, return, outside air and exhaust ductwork shall be prime quality, galvanized steel sheetmetal.						
nd equipment shall be new and of best grade and quality, butable manufacturers.	e	e. Seal all joints and seams with fireproof, non-hardening, non-migrating mastic. Leakage in excess of 5% of total airflow is not acceptacle.						
drawings are diagrammatic in nature, but should be selv as possible.		developped smoke of 50 per ASTM E-84, NFPA 255 and U.L. 723.						
equired due to poor workmanship or coordination shall be	1	f. Provide all unit duct connections with flexible duct connectors.						
additional expense to the owner.	ç	g. Provide the following duct systems:						
ment and materials in a neat, workman—like manner in 1 the manufacturers printed instructions.		<ol> <li>1.) Uutside air/Exhaust air duct – Galvanized sheet metal with 2" thick, 3/4 lb. external insulation or per local code.</li> </ol>						
pased on the equipment scheduled. The contractor shall of variations in electrical, mechanical, structural requirementds		2.) Supply/Return air ductwork to be galvanized sheet metal with 1" thick duct liner insulation.						
chooses to utilize any other approved equipment manufacturer.	6.	CONTROLS						
AINTENANCE DURING THE WARRANTY PERIOD		a. The wall mounted thermostat (specified to be provided with the HVAC equipment) shall cycle the stages of direct expansion cooling and the electric heating cycle as						
and warranty period is for 12 months after substantial he project.		required to maintain the space set point temperature ( $\pm$ 74° F.) when place in the "AUTO" mode.						
failures or defects during this period shall be at no cost to	7.	MECHANICAL SYSTEMS TESTING AND BALANCING						
shall be no longer than the day after notification.	C	<ul> <li>Provide a trained, experienced technician to test, adjust and balance the air distribution and exhaust systems.</li> </ul>						
		1.) Adjust the outside, exhaust and return air to the design conditions.						
		2.) Adjust fan rpm required to obtain design air quantities.						
als of all equipment and materials utilized for this project wner/architect/engineer.		<ol><li>Measure and adjust all duct systems and air outlets to design air quantities.</li></ol>						
PIPING SYSTEMS	8.	DELIVERY, STORAGE AND HANDLING						
tubing with drainage pattern fittings, soldered joints and ap.		a. Protect all equipment and materials to be installed from weather and damage.						
as specified for refrigerant suction piping.	9.	CODES, PERMITS AND FEES						
sate drain piping from each cooling coil drain connection the unit drain connection and auxiliary drain.		a. Installation of mechanical systems in their entirety shall comply with the 2015 International Building Code and Mechanical Code, and comply with the most recent versions of all applicable laws, rules, regulations and ordinances of all governing codes and authorities. Obtain all required permits and pay all fees required by these authorities.						
duct installation with Architectural and Structural elements		b. Modifications required by above Authorities shall be made without addition expense to the owner.						

![](_page_23_Figure_8.jpeg)

3 EXTERIOR DUCT SUPPORT SCALE: NOT TO SCALE

![](_page_23_Picture_11.jpeg)

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Engineering, Inc. TBPE FIRM # F-10227

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ARCH THE AND ( THE	ITECT HAS CONSULTAN COORDINAT OVERALL	reviewed It's Work Ed It With Project	<b>8</b>
SILSBEE ELEMENTARY GYMNASIUM FINISH-OUT		Silsbee ISD	0 South 7th Street Silebee, TX 778
IS SCHEM/ DATE: 4 DESIGN DATE: - BIDS & C DATE: - REVISIO DATE: _ REVISIO DATE: _ REVISIO DATE: _	SSUED   ATIC DES -9-2023 DEVELO CONSTRU N:	FOR IGN PMENT JCTION	
DRAWI ME D SPE	NGS SH CHAI ETAII CIFIC/	IEET TT NICAI _S & ATIOI	TIE L NS
SH	еет NU M. 2105 ЈЕСТ N	IMBER 3 52 IUMBEF	

![](_page_24_Figure_0.jpeg)

![](_page_24_Figure_3.jpeg)

![](_page_24_Figure_4.jpeg)

![](_page_24_Figure_5.jpeg)

![](_page_24_Figure_6.jpeg)

LIGH	LIGHT FIXTURE SCHEDULE							
MODEL NO.	LAMPS	VOLTAGE	REMARKS					
VHB-24-W-UNV .850-CD-U-BATTY BU	(1)—165 LED/850 (INCLUDED)	120	RECESSED LED HIGH BAY LUMINAIRE WITH HIGH IMPACT POLYCARBONATE OPTICAL LENS AND INTEGRAL DRIVER. AND UL LISTED FOR WET LOCATIONS.					
IB-24-W-UNV-EL20W 850-CD-U-BATTY BU	(1)-165 LED/850 (INCLUDED)	120	SAME AS TYPE "A" EXCEPT WITH INTEGRAL EMERGENCY BATTERY PACK INSTALLED.					
VT2-LD4-4-DR-UNV EL10W-L840-CD1 -WL-SSL-U	(1)—38W LED/840 (INCLUDED)	120	SURFACE MOUNTED WITH FIBERGLASS HOUSING, PRISMATIC LENS, LED SYSTEM INTEGRAL DRIVER AND SELF-CONTAINED EMERGENCY BATTERY OPERATES 20 WATT.					
XTOR12B	(1)-102W LED 5000K INCLUDED	120	WALL MOUNT CROSSTOUR LOW-PROFILE WITH LED FLOODLIGHT WITH DIE-CAST ALUMINUM CONSTRUCTION WHITE FINISH, SILICONE SEALED OPTICAL LED IMPACT-RESISTANT MOLDED REFRACTIVE PRISM, COLD WEATHER BALLAST AND U.L. LISTED FOR WET LOCATIONS.					
XTOR6B-CBP	(1)-58W LED 5000K INCLUDED	120	WALL MOUNT CROSSTOUR LOW-PROFILE WITH LED FLOODLIGHT WITH DIE-CAST ALUMINUM CONSTRUCTION WHITE FINISH, SILICONE SEALED OPTICAL LED IMPACT-RESISTANT MOLDED REFRACTIVE PRISM, COLD WEATHER BALLAST, COLD WEATHER BATTERY PACK AND U.L. LISTED FOR WET LOCATIONS.					
TLP-R-2U-W-SD	(1)-4W LED (INCLUDED)	120	BACK MOUNT SINGLE FACE EXIT SIGN WITH HIGH IMPACT POLYCARBONATE HOUSING, STENCIL RED FACE, WHITE FACE/HOUSING TEXTURED FINISH, LED LAMP AND NICKEL CADMIUM BATTERY. MOUNT BOTTOM EXIT SIGN 12" CENTERED ABOVE DOOR OR AS REQUIRED.					

1. ALL LED EMERGENCY BATTERY PACKS ARE FACTORY INSTALLED AND UL LISTED.

## **ELECTRICAL NOTES**

COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH ACTUAL CEILING GRID SYSTEMS AND STRUCTURES. REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN, WALLS, ROOF/CEILING STRUCTURES, SECTIONS & ELEVATIONS. IN EXPOSED CEILING STRUCTURES, CONFIRM WITH ENGINEER AND ARCHITECT EXACT CONDUIT ROUTING PRIOR TO MAKE INSTALLATION AND MUST BE CONCEALED AS MUCH AS POSSIBLE.

E2 INSTALL INTERMATIC PHOTO ELECTRIC CONTROL SERIES K4521 WITH COMPLETE OF ACCESSORIES AND ADJUSTABLE STEM TO CONTROL LA-5. LOCATE PHOTO ELECTRIC CONTROL AT 8'-0" AFF OR AS REQUIRED TO FACE NORTH.

(E3) INSTALL SINGLE GANG DEEP FLOOR BOX WITH APPROPRIATE COVER PLATE FOR DATA AND/OR VOICE OUTLETS. PROVIDE (1)-1" EMPTY CONDUIT WITH PULL STRING FROM SINGLE GANG DEEP FLOOR BOX UP WALL TO 6" ABOVE ACCESSIBLE CEILING WITH BUSHING.

CONNECT POWER CIRCUITS AS INDICATED FOR ROOFTOP UNIT AND WP/GFCI RECEPTACLE PROVIDED WITH THE ROOFTOP UNIT. FIELD COORDINATE WITH MECHANICAL CONTRACTOR.

(E5) INSTALL WALL AND/OR BACK BOX WITH 3/4" EMPTY CONDUIT WITH PULL STRING UP WALL TO 6" ABOVE ACCESSIBLE CEILING WITH BUSHING FOR FIRE ALARM AND/OR SECURITY DEVICES. CONFIRM ALL REQUIREMENTS WITH FIRE ALARM AND SECURITY SYSTEMS INSTALLER. ALL LOCATIONS AND REQUIREMENTS OF SECURITY SYSTEM MUST BE CONFIRMED AND COORDINATED WITH SECURITY SYSTEM INSTALLER. FIRE ALARM AND SECURITY SYSTEMS INSTALLER TO PROVIDE SEPERATE DRAWINGS PER NFPA 72 AND 101.

(E6) INSTALL 4'x8'x3/4" GRADE PLYWOOD ON WALL AS SHOWN FOR DATA, VIDEO & TELEPHONE BOARD. PAINT TO MATCH WALL COLOR. PROVIDE GROUNDING WITH #6 GROUND CONDUCTOR AND TO CONNECT TO ELECTRICAL SERVICE GROUND ROD.

E7 INSTALL SINGLE GANG WALL BOX WITH APPROPRIATE COVER PLATE FOR HVAC THERMOSTAT. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING FROM SINGLE GANG WALL BOX UP PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING FROM SINGLE GANG WALL BOX UP TO 6" ABOVE ACCESSIBLE CEILING WITH BUSHING. COORDINATE EXACT LOCATION WITH DIVISION 15, MECHANICAL CONTRACTOR. REFER TO MECHANICAL FLOOR PLAN, SHEET 1/M.1 FOR LOCATION OF WALL MOUNTED THERMOSTAT.

(E8) ROUGH-IN AND MAKE FINAL CONNECTIONS TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS, OR FURNISHED BY OWNER. FIELD CONFIRM WITH EQUIPMENT SUPPLIER AND/OR INSTALLER EXACT REQUIREMENTS PRIOR BIDDING AND INSTALLATION.

E9 ALL LOCATIONS OF ELECTRICAL AND TECHNOLOGY DEVICES MUST BE CONFIRMED WITH ARCHITECTURAL SECTIONS, ELEVATIONS, MILLWORKS AND CASEWORK PRIOR TO MAKE FINAL INSTALLATIONS. ALL CHANGES DUE TO CONFLICT OF LOCATIONS AND/OR LACK OF ARCHITECTURAL SHEETS COORDINATION SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

(E10) ALL CONDUIT PENETRATIONS AT FIRE RATED WALLS MUST BE PROVIDED WITH SCHEDULE 40 GALVANIZED CONDUIT SLEEVE SECURED TO PARTITION WITH GROUT AND CAULK ANNULAR SPACE BETWEEN CONDUIT AND SLEEVE WITH FIRE RETARDANT SEALANT. WHERE CONDUIT IS EXPOSED AT FINISHED WALLS, PROVIDE FLUSH MOUNTED SLEEVE AND STAINLESS STEEL ESCUTCHEON PLATES. AT NON-FIRE RATED INTERIOR WALLS, CAULK ANNULAR SPACE BETWEEN CONDUIT AND SLEEVE WITH 1 LB. DENSITY FIBERGLASS AND SEAL ENDS WITH DOW CORNING 732 RTV OR EQUAL.

ALL LIGHTING CIRCUITS SHALL HAVE SEPARATE NEUTRALS. NO SHARED NEUTRALS.

![](_page_24_Picture_22.jpeg)

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![](_page_24_Picture_23.jpeg)

![](_page_25_Figure_0.jpeg)

	ELECTRICAL SYMBOLS
$\left\langle \begin{array}{c} 1 \\ F 1 \end{array} \right\rangle$	REFERENCE TO DETAIL
	SURFACE MOUNTED PANEL
	FLUSH MOUNTED PANEL
•	LED LIGHT FIXTURE
$\boxtimes$	LED EMERGENCY LIGHT FIXTURE
0	CEILING MOUNTED DOWNLIGHT LIGHT FIXTURE
$\otimes$	CEILING MOUNTED EXIT LIGHT FIXTURE
H⊗	WALL MOUNTED EXIT LIGHT FIXTURE
	PHASE CONDUCTOR
<b>●</b>	GROUND CONDUCTOR
, ₽₽	ISOLATED GROUND & GROUND CONDUCTOR
	SWITCH LEG AND/OR BRANCH CIRCUIT
	BRANCH CIRCUIT
<b>—</b>	HOME RUN TO PANELBOARD
¢- \$	SWITCH, 48" AFF
₽3 \$ <sub>30</sub>	THREE-WAT SWITCH, 48 AFF
Ф30 \$м	MOTOR RATED SWITCH
Ф \$Р	SWITCH WITH PILOT LIGHT, 48" AFF
\$os	OCCUPANCY SENSOR SWITCH, 48" AFF
\$osd	OCCUPANCY SENSOR DIMMER SWITCH, 48" AFF
	MOTOR
	DISCONNECT SAFETY SWITCH COMBINATION MOTOR STARTER AND DISCONNECT
	SAFETY SWITCH
	HARDWIRED CONNECTION
ф С∎с	ISOLATED GROUND DUPLEX RECEPTACLE
⊖ ·.∘ ⊖ 00"	DUPLEX RECEPTACLE WITH MOUNTING HEIGHT
€wp	WEATHER PROOF DUPLEX RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
⊕	DOUBLE DUPLEX RECEPTACLE, 12" AFF
aı∉	ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE, 12" AFF
<b>⊕</b> 00"	DOUBLE DUPLEX RECEPTACLE WITH MOUNTING HEIGHT
$\bigcirc$	JUNCTION BOX
-	(DOUBLE DUPLEX CAT 6)
- <b>I</b> TV	TV DATA OUTLET
SD	DUCT MOUNTED SMOKE DETECTOR WITH INDICATOR LIGHT
PC	PHOTO ELECTRIC CONTROL, 108" AFF
R	SHUTDOWN RELAY
	ABBREVIATIONS
A	AMPERES
AIC	AMPS INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
CU	COPPER
СВ	CIRCUIT BREAKER
FD	FUSED DISCONNECT SAFETY SWITCH
GND	
KVA	KILOVOLT-AMPS
MLO	MAIN LUGS ONLY
мсв	MAIN CIRCUIT BREAKER
NEC	NATIONAL ELECTRICAL CODE
	NON-FUSED DISCONNECT SAFETY SWITCH
NFD	
NFD UC	UNDER COUNTER
NFD UC V	UNDER COUNTER VOLTS

![](_page_25_Figure_6.jpeg)

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![](_page_26_Figure_0.jpeg)

				Ρ	AN	IEL '	<b>'L</b>	<b>A</b> "	S	CH	IED	UL	Ε						
MOUNTING: SURFACE		TYPE: SQU	JARE D	NQOD					FAL	JLT	CURRENT	: 8,78	35 A			MAII	N: MLO BUS: 400 A	FEED:	SIDE
VOLTS: 208Y/120 Vac BOLT-On		ENCLOSURE	E: NE	EMA 1 \	WITH GR	OUND BAR			FAL	JLT I	BRACING:	42K	AIC SC	FULLY	RATED	MAII	N SIZE BREAKER: NONE	BUS:	COPPER
PHASE: 3 WIRE: 4 Hz.: 60		ISOLATED (	GROUN	ID: YES	S				TVS	s/s	PD: NON	E				LOC	ATION: ELECT. RM.		
DESCRIPTION	CONDUIT	WIRE & IG/GROUND SIZE	LO ØA	AD (k) ØB	VA) ØC	BREAKER	CIRCUIT	ØA Ø	B øC פ פ	CIRCUIT	BREAKER	LO ØA	AD (k) ØB	VA) ØC	WIRE & IG/GROUND SIZE	CONDUIT	DESCRIPTION		
LIGHTS, EXIST SIGNS, GYM	3/4"	(2)-#12, (1)-#12	0.873			20/1	1	+-	╞╧╪	2	20/1	0.825			(2)-#12, (1)-#12	3/4"	LIGHTS, GYM		
LIGHTS, GYM	3/4"	(2)-#12, (1)-#12		0.825		20/1	3	-	┢─┼	4	20/1		0.868		(2)-#12, (1)-#12	3/4"	LIGHTS, EXIST SIGNS, GYM		
EXTERIOR/SECURITY LIGHTS, PHOTOCELL "PC"	3/4"	(2)-#10, (1)-#10			0.684	20/1	5		╞─┿	6	20/1			0.900	(2)-#12, (1)-#12	3/4"	RECEPTACLES, GYM		
RECEPTACLES, GYM	3/4"	(2)-#12, (1)-#12	0.720			20/1	7	+	$\square$	8	20/1	0.360			(2)-#12, (1)-#12	3/4"	RECEPTACLES, MECH. YARD		
RECEPTACLES, GYM	3/4"	(2)-#12, (1)-#12		0.720		20/1	9			10	20/1		0.720		(2)-#12, (1)-#12	3/4"	RECEPTACLES, GYM		
RECEPTACLES, TECH. CLOSET	3/4"	(2)-#12, (1)-#12			0.360	20/1	11		┝	12	20/1			0.360	(2)-#12, (1)-#12	3/4"	RECEPTACLES, TECH. CLOSET		
SECURITY CONTROL "SCP", COMM., RM. 3	3/4"	(2)-#12, (1)-#12	1.200			20/1	13	+		14	150/3	17.172			(3)-#1/0, (1)-#4	2 1/2"	PAC-1, MECH. YARD		
FIRE ALARM CONTROL PANEL "FACP", COMM., RM. ③	3/4"	(2)-#12, (1)-#12		1.200		20/1	15	+	┝─┼	16	-		17.172		-	-	29		
SPARE						20/1	17	+	╞	18	_			17.172	-	-	29		
99						20/1	19	<u>+</u>		20	20/1						SPARE		
99						20/1	21		┝──┼	22	20/1						<u>99</u>		
99						20/1	23	+	╞	24	20/1						<del>33</del>		
SPACE							25	+		26							SPACE		
39							27		┝─┼	28							22		
"							29	-	╞	30							"		
n							31	+		32							<b>33</b>		
9							33		┡──┼	34							99		
n							35	+	╞═╋	36							<del>32</del>		
10							37	<u>+</u>		38							<del>33</del>		
19							39		┡──┼	40							19		
19							41	+		42							22		
NOTES:			TOTAL	kVA ØA	= 21	.150 TO	TAL	kva øe	= 2	21.50	5 TOTAL	. kVA ØC	; = 19	9.476					
(1) ALL PANELS TO BE IDENTIFIED WITH ENGRAVED PLACARDS.	) phei	NOLIC RESIN		AL CON	NNECTE	U LOAD	=	62. 17	131							. LUCK	ING CIKCUII BREAKER.		
2 PANEL CIRCUIT SCHEDULES TO BE TYPED, N ON PANEL MANUFACTURERS SUPPLIED TEMP	IOT HA	ANDWRITTEN,	1	TOTAL	DEMAN	ID LOAD	=	64.	776 I	kVA	2020			215 3	-				
								179	9.8		3 2020 AR	TICLE 2	20 II 8	213.3 c III					
											•				-				

## **ELECTRICAL RISER NOTES**

- ERI ELECTRICAL CONTRACTOR MUST CONFIRM THE ACTUAL PHYSICAL DIMENSIONS OF NEW PANELBOARDS WITH GENERAL CONTRACTOR PRIOR TO MAKE FINAL INSTALLATION. ALL ELECTRICAL PANELBOARDS, DISCONNECT SAFETY SWITCHES, CONTROL BOXES AND TO BE INSTALLED PER 2020 NEC OR AT "WORKING HEIGHT".
- FIELD VERIFY AND COORDINATE THE EXACT ROUTING OF ALL CONDUITS WITH ALL TRADES PRIOR TO MAKE FINAL INSTALLATION.
- ER3 USE AND BOND TOGETHER GROUNDING ELECTRODES SUCH AS METAL UNDERGROUND WATER PIPE, METAL FRAME OF THE BUILDING OR STRUCTURE AND CONCRETE ENCASED ELECTRODE PER ARTICLE 250.52(A)(1) THROUGH (A)(3) OF NEC 2017. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO FORM THE GROUNDING ELECTRODE SYSTEM REQUIRED BY ARTICLE 250.52.
- ERA CONTACT ENTERGY AT 1-800-ENTERGY FOR THE UTILITY COMPANY REQUIREMENTS RELATING TO THE NEW UNDERGROUND ELECTRICAL SERVICE. OWNER WILL PAY ANY FEES PAYABLE TO ENTERGY. FIELD CONFIRM WITH ENTERGY EXACT LOCATION OF POWER POLE.

LOAD ANALYSIS	
LOADS: VOLT-AMPERES (VA)	VA
<u>LIGHTING LOADS (NEC 2020 ARTICLE 215/220)</u> <u>LIGHTING LOADS: ARTICLE 215.3/220.42</u> A.) INTERIOR & EXTERIOR LIGHTING = 4,975 VA TOTAL DEMAND LIGHTING LOADS = (4,975 VA × 1.25) = <u>6.219 VA</u>	6,219
RECEPTACLE LOADS (NEC 2020 ARTICLE 220 II & III) A.) PANEL "LA" = 4,140 VA TOTAL DEMAND RECEPTACLE LOADS = <u>4,140 VA</u>	4,140
MOTOR AND HVAC LOADS (NEC 2020 ARTICLE 440.33) A.) HVAC = 51,517 VA B.) 25% OF THE HIGHEST MOTOR (10 HP-208V/3Ø) = 11,600 VA x .25 = 2,900 VA HVAC DEMAND LOAD = 51,517 VA + 2,900 VA = <u>54.417</u> VA	54,417
TOTAL DEMAND LOAD	64,776
REMARKS:	-

TOTAL CALCULATED DEMAND LOAD IN AMPS (SERVICE VOLTAGE IS 208Y/120VAC 3P/4W = 64,776/(208 x 1.732) = 179.8 AMPS. THEREFORE, <u>300 AMPS ELECTRICAL</u> SERVICE IS SELECTED.

![](_page_26_Picture_11.jpeg)

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Arch The And ( The	itect has consultan coordinat overall	reviewe It's wor Ed it win Project	D K H
SILSBEE ELEMENTARY GYMNASIUM FINISH-OUT		Silsbee ISD	70 South 7th Street Sliebee, TX 77656
IS SCHEM/ DATE: 4 DESIGN DATE: - BIDS & C DATE: - REVISIO DATE: - REVISIO DATE: - REVISIO DATE: -	SSUED             ATIC DES           -9-2023           DEVELO           CONSTRU           N:           N:	FOR IGN 	
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MEPTech

5090 ADA AVENUE

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ELECTRICAL SPECIFICATIONS							
<ol> <li>GENERAL REQUIREMENTS AND CONTRACTOR QUALIFICATIONS         <ul> <li>The Contractor for this work shall be a specialist in this field, having the organization to provide trained, experienced and skilled personnel required to construct a practical and working system.</li> <li>Study all matters and conditions of the Project and coordinate with the other Divisions of work to provide a complete and functioning system in accordance with the Contract Documents.</li> </ul> </li> </ol>	<ul> <li>K. Minimum wire size 20 amp branch circuit shall be AWG listed size per distance shown below. Distance shall be measured from the panelboard circuit breaker to the furthest outlet.</li> <li><u>120V</u></li> <li>A. #12 Less than 100 feet</li> <li>B. #10 Between 100-150 feet</li> <li>C. #8 Between 150-250 feet</li> </ul>						
<ul> <li>C. Use only the specified materials, equipment and procedures in fabricating the systems.</li> <li>D. Notify the Engineer of any and all conflicts in ample time to avoid unwarranted changes in any work.</li> <li>E. Obtain all applicable permits and pay all fees charged by above authorities.</li> <li>F. Existing conditions <ol> <li>Prior to submitting a proposal, visit the job site to become familiar with existing conditions and equipment for the work to be accomplished.</li> <li>Verify exact location of existing electrical system.</li> </ol> </li> <li>G. Provide "AS BUILT" shop drawings at completion of project.</li> <li>H. The Electrical Systems in their entirety shall be installed in accordance with the NFPA 70, 2020 National Electrical Code, International Energy Code and all other governing Codes and Authorities. Modifications required by the above said outhorities shall be made without additional charge to the owner.</li> <li>I. With submission of bid, Contractor shall give written notice to the Architect or Engineer of any materials or appartus believed inadequate or unsuitable, in violation of laws, ordinances, rules and any necessary items or work omitted. In the absence of such written notice, it is mutually agreed the Contractor has included the cost of all required items in his proposal, and that he will be responsible for the approved items in his proposal, and that he will be responsible for the approved items in his proposal, and that he will be responsible for the approved items in the proposal approximation of proposal approved items in the proposal of the difference of any and that he will be responsible for the approved items in the proposal, and that he will be responsible for the approved items in the proposal approved items in</li></ul>	<ol> <li>5. WIRING DEVICES         <ul> <li>A. Furnish and install all wiring devices for convenience outlets, telephone outlets, push buttons, conductor splices, and switches as shown on the drawings unless otherwise noted.</li> <li>B. Unless shown otherwise, convenience outlets shall be Hubbell #CR5362GR/WH.</li> <li>C. Unless shown otherwise, light switches shall be Hubbell #CS1221GR/WH/CS1222GR/WH/CS1223GR/WH/CS1224GR/WH.</li> <li>Dimmer - 120V LED Incandescent: Greengate WBSD-DEC-W (White) Dimmer - 0-10V LED/Fluorescent: Greengate WBSD-010M-C1-W (White) Approved equal: Lutron.</li> <li>D. Where shown on drawings, duplex receptacles designated with ground fault circuit interruption shall be HUBBELL #GFR53521 and weatherproof cover shall be HUBBELL CWP26H.</li> <li>E. The following are the ADA Accessibility Guidelines for switches, receptacles, telephones and outlets. Unless shown otherwise on the drawings, mounting heights to be as follows:</li></ul></li></ol>						
<ul> <li>2. LIGHTING AND POWER CIRCUITS AND SWITCHLEGS</li> <li>A. Provide a luminaire for each luminaire symbol shown on the drawings and install all luminaires complete with lamps.</li> <li>B. Install luminaires complete with all materials, devices, parts, cables, hardware, hangers, supports, frames and equipment required for a complete, safe and fully operational installation.</li> <li>C. Furnish and install all conduit and conductors necessary for complete circuiting of general power and lighting and for light switching.</li> </ul>	<ul> <li>4. Wain receptacies, telephone and date outlets at countertops 3'-8" to center of device or shown on drawings.</li> <li>F. Provide STAINLESS STEEL wall/face plates for all interior areas.</li> <li>G. Occupancy Sensors: <ol> <li>Wall mounted: Greengate-Cooper Model ONW-D-1001-MV-N-W/ OSW-D-010-W 120V and white color. Approved equal: Hubbell &amp; Leviton</li> <li>Ceiling mounted: Greengate-Cooper Model OAC-DT-2000-R/ DT2000 120V and white color. Approved equal: Hubbell &amp; Leviton</li> </ol> </li> <li>6. LIGHT FIXTURES AND LIGHTING CONTROLS.</li> </ul>						
<ol> <li>SHOP DRAWINGS AND PRODUCT DATA         <ul> <li>A. Submit manufacturer's printed product literature for all compoments of the electrical systems prior to purchase and installation.</li> </ul> </li> <li>BRANCH CIRCUITS FOR POWER AND LIGHTING</li> </ol>	<ul> <li>A. Furnish and install all lighting fixtures in accordance with the fixture designation, light fixture schedule or indicated on drawings.</li> <li>7. TELEPHONE, VIDEO AND DATA CONDUIT SYSTEM REQUIREMENT         <ul> <li>A. Where shown on drawings, at each telephone, video and data outlet location, furnish and install recessed wall or floor boxes with 3/4" empty conduit and pull string extending to 6" above ceiling. Provide white plastic cover plate over wall box if not in used.</li> </ul> </li> </ul>						
<ul> <li>A. Conduit systems shall be U.L. labeled EMT with U.L. labeled compression or die cast type fittings.</li> <li>1. Minimum 3/4" for homeruns. 1/2" for switchlegs.</li> <li>B. Branch circuit Conductors to be soft drawing annealed copper having a conductivity of not less than 99% of pure copper.</li> <li>1. Type "THHN" (interior), or "THHW" (exterior) solid conductor.</li> <li>C. All feeders, service conductors &amp; branch circuit wiring shall be copper only.</li> </ul>	<ol> <li>CUTTING AND PATCHING</li> <li>A. The contract shall do all cutting and patching of the existing contruction work which may be required for the proper installation of the electrical work. All patching shall be of the same materials, workmanship and finish as, and shall accurately match all surrounding work.</li> </ol>						
<ul> <li>D. Use flexible conduit for light fixture wiring where length is within limits as prescribed by NEC and Local Codes.</li> <li>E. Conduit interconnection of lighting fixtures shall be from joist level. Do not extend runs horizontally from fixture to fixture.</li> <li>F. Except where wiring and conduit is routed exposed in electrical/ mechanical rooms all wiring shall be concealed within floors, walls or partitions.</li> <li>G. Color coding of wire larger than No. 6 AWG and other types of wire accomplished by means of self-adhesive, wrap around type markers of solid colors.</li> <li>1. Mark each wire at panelboards, junction boxes, pull boxes, and outlets.</li> <li>2. Color Code.</li> <li>208/120V <ul> <li>A. black</li> <li>B. red</li> <li>C. blue</li> <li>N. white</li> <li>G. green</li> </ul> </li> </ul>	<ol> <li>FIRE ALARM, SMOKE DETECTION AND SECURITY SYSTEMS         <ul> <li>Installation of new fire alarm devices shall comply with the current applicable provisions of NFPA 70, NFPA 71, NFPA 72/72E, NFPA 101, local and state building codes, and all requirements of the local authority having jurisdiction.</li> <li>Furnish and install new security devices with all necessary equipment, wiring, conduits, boxes, etc. required to ensure a fully operational system.</li> <li>It shall be the responsibility of the Electrical Contractor to provide all conduit systems, standard electrical boxes, and operating power for the security system as outlined on the project drawings or as required by the Security System Contractor. Verify all requirements prior to installation shall be in accordance with standard professional security system engineering practices and Texas State Board of Private Investigators. All installation and service personnel working on this project shall be "Registered" Alarm system Installers.</li> </ul> </li> </ol>						
<ul> <li>SL. pink</li> <li>H. Motor circuit conductors shall be continuous throughout their entire length.</li> <li>I. Splices and joints in branch circuit wiring shall be made only in accessible junction boxes and shall be made with compression type solderless connectors. Connectors of the nonmetallic screw type are not approved.</li> <li>J. Minimum wire size shall be no less than #12 AWG unless otherwise noted on plans.</li> </ul>	<ol> <li>PANELBOARDS, CBs, DISCONNECT SAFETY SWITCHES &amp; MOTOR STARTERS         <ul> <li>Furnish and install at locations as shown on the drawings and shall be of the type approved by owner, indicated or specified.</li> </ul> </li> <li>I1. GROUNDING OF ELECTRICAL SYSTEMS         <ul> <li>Grounding of the electrical systems shall conform to the requirements of the latest National Electrical Code and other governing local codes.</li> </ul> </li> </ol>						

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