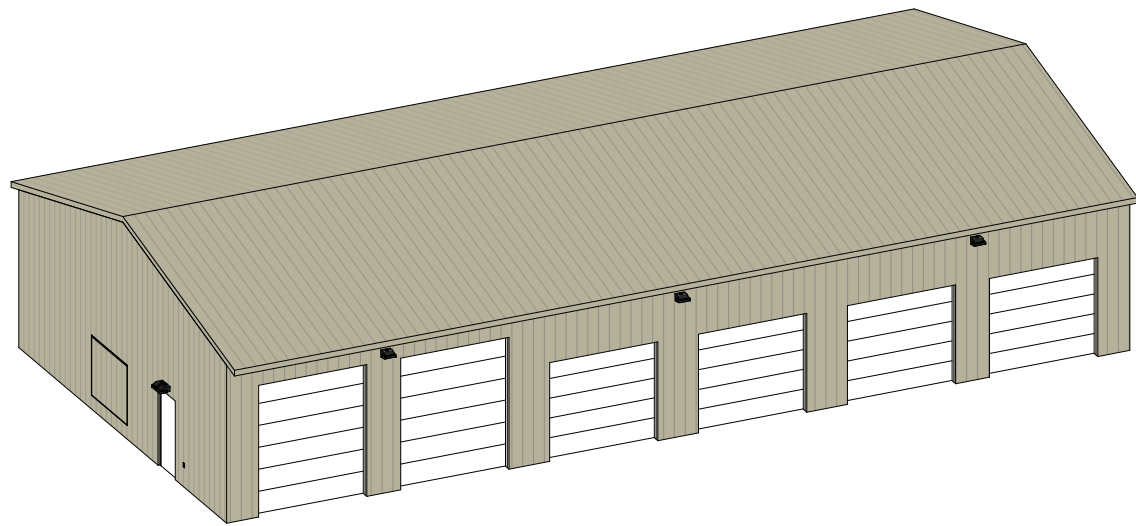


HHS STS NEW GARAGE BLDG REBID #2

3211 Edgington Ave, Eldora, IA 50627

HGM PROJECT NO. 106025 8-10-26

DAS PROJECT NO. 9476.01



INDEX OF DRAWINGS

GENERAL

- G1.1 COVER SHEET
- G1.2 ABBREVIATIONS & SYMBOLS
- G1.3 CODE PLAN

CIVIL

- C1.0 TOPOGRAPHIC SURVEY
- C2.0 CIVIL SITE PLAN
- C3.0 GRADING PLAN

ARCHITECTURAL

- A1.1 FLOOR PLAN
- A2.1 EXTERIOR ELEVATIONS

STRUCTURAL

- S1.1 FOUNDATION PLAN & DETAILS
- S2.1 ROOF FRAMING PLAN & DETAILS

GENERAL MECHANICAL

- MG0.0 MECHANICAL GENERAL INFORMATION

MECHANICAL

- M1.1 MECHANICAL PLAN

GENERAL ELECTRICAL

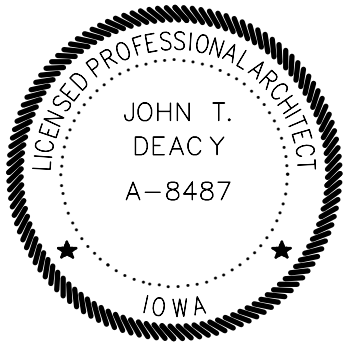
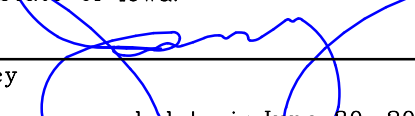
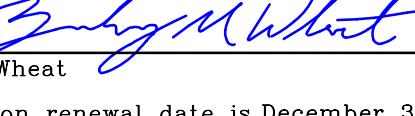
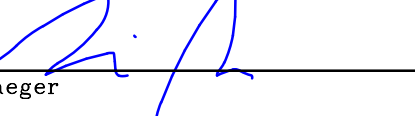
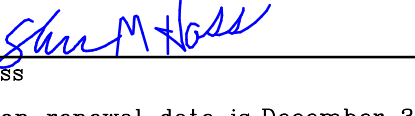
- EG0.0 ELECTRICAL GENERAL INFORMATION

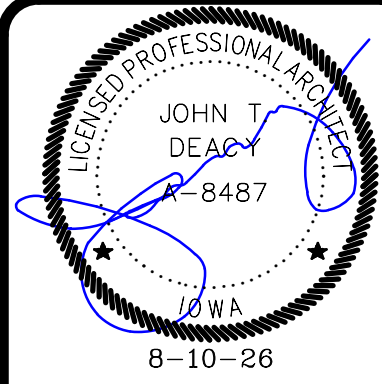
ELECTRICAL

- E1.1 ELECTRICAL PLAN
- E2.1 ELECTRICAL SCHEDULES AND RISERS



LOCATION PLAN
SCALE: NOT TO SCALE

I, John Deacy am the coord person for the project HHS STS NEW GARAGE BLDG REBID #2		I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered Architect under the laws of the State of Iowa. (signature)  8-10-26 John T. Deacy My registration renewal date is June 30, 2028. Pages or sheets covered by this seal: All General Sheets All Architectural Sheets
		I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. (signature)  8-10-26 Zachary M. Wheat My registration renewal date is December 31, 2028. Pages or sheets covered by this seal: All Civil Sheets
		I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. (signature)  8-10-26 Mackenzie Jaeger My registration renewal date is December 31, 2028. Pages or sheets covered by this seal: All Structural Sheets
		I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. (signature)  8-10-26 Justin L. Veik My registration renewal date is December 31, 2027. Pages or sheets covered by this seal: All Mechanical Sheets
		I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. (signature)  8-10-26 Shane M. Hoss My registration renewal date is December 31, 2027. Pages or sheets covered by this seal: All Electrical Sheets



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This drawing is being made
in accordance with the
terms of the agreement.
I, the undersigned, am a duly
licensed Professional Engineer
for the State of Iowa. I am
not responsible for the
accuracy of the information
provided by the client or
other sources. I am not
responsible for the
accuracy of the information
provided by the client or
other sources. I am not
responsible for the
accuracy of the information
provided by the client or
other sources.

Rev#	Date
HGM	drawn
HGM	designed
HGM	approved
HGM	date

HHS STS NEW GARAGE BLDG REBID #2
3211 Edgington Ave, Eldora, IA 50627

project
client
sheet

project no.
106025
9476.01
sheet

G1.1

COVER SHEET

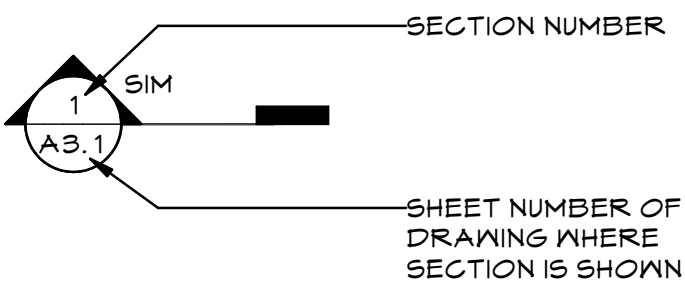
ARCHITECTURAL , STRUCTURAL AND CIVIL ABBREVIATIONS

A/C	AIR CONDITIONING	ELEC	ELECTRICAL	LONG	LONGITUDINAL	SCHE	SCHEDULE
AB	ANCHOR BOLT	ELEV	ELEVATOR	LP	LOW POINT	SD	SOAP DISPENSER
ACM	ALUMINUM COMPOSITE METAL	EMER	EMERGENCY	L&F	LINOLEUM SHEET FLOORING	SECT	SECTION
ACT	ACOUSTIC CEILING TILE	ENTR	ENTRANCE	LT	LIGHT	SEG	SEGMENTAL
ADJ	ADJACENT	EOD	EDGE OF DECK	LVT	LUXURY VINYL TILE	SH	SHELF, SHELVING
ADJT	ADJUSTABLE	EOR	END OF RETURN	M	METER(S)	SHM	SECURITY, HOLLOW METAL
AFF	ABOVE FINISHED FLOOR	EQ	EQUAL	MAS	MASONRY	SHT	SHEET
AGG	AGGREGATE	EQUIP	EQUIPMENT	MATL	MATERIAL	SHTH	SHEATHING
ALT	ALTERNATE	EW	EACH WAY	MB	MARKER BOARD	SIM	SIMILAR
ALUM	ALUMINUM	ENC	ELECTRIC WATER COOLER	MBH	MOP / BROOM HOLDER	SLR	SEALER
ANCH	ANCHOR	EXH	EXHAUST	MECH	MECHANICAL	SND	SANITARY NAPKIN DISPOSAL
ANOD	ANODIZED	EXIST	EXISTING	MED	MEDICINE CABINET	SNT	SEALANT
APC	ACOUSTICAL PANEL CEILING	EXP	EXPANSION	MECHAL	MECHANICAL, ELECTRICAL, PLUMBING	SNV	SANITARY NAPKIN VENDOR
ARCH	ARCHITECTURAL	EXPD	EXPOSED	MEP		SPEC	SPECIFICATIONS
ASPH	ASPHALT	EXT	EXTERIOR	MFR	MANUFACTURER	SPF	SPLIT-FACE
AUTO	AUTOMATIC	FA	FIRE ALARM	MH	MANHOLE	SPMR	SINGLE-PLY MEMBRANE ROOFING
B	BOTTOM	FB	FACE BRICK	MIN	MINIMUM	SQ	SQUARE
B-B	BACK TO BACK	FBG	FIBERGLASS	MIR	MIRROR	SSM	SOLID SURFACING MATERIAL
B/C	BACK OF CURB	FBO	FURNISHED BY OTHERS	MISC	MISCELLANEOUS	SSTL	STAINLESS STEEL
BBM	BOND BEAM	FCWP	FIBER CEMENT WALL PANEL	MO	MASONRY OPENING	ST	STORM
BD	BOARD	FD	FLOOR DRAIN	MOD	MODULAR	STA	STATION
BEN	BENCH	FE	FIRE EXTINGUISHER	MR	MOISTURE RESISTANT	STD	STANDARD
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CAB	MTD	MOUNTED	STL	STEEL
BLK	BLOCK	FES	FLARED END SECTION	MTL	METAL	STN	STAIN & VARNISH
BLKG	BLOCKING	FF	FINISHED FLOOR	MULL	MULLION	STOR	STORAGE
BM	BEAM	FG	FULL GLASS	N	NORTH	STR	STRUCTURAL
BM	BENCHMARK	FIN	FINISHED	NIC	NOT IN CONTRACT	SUSP	SUSPENDED
BN	BULLNOSE	FIXT	FIXTURE	NOM	NOMINAL	SW	SWITCH
BOS	BOTTOM OF STRUCTURE	FLASH	FLASHING	NTS	NOT TO SCALE	SYM	SYMMETRICAL
BOT	BOTTOM	FLR	FLOOR (ING)	OC	ON CENTER	T	TREAD
BRG	BEARING	FLUR	FLUORESCENT	OD	OUTSIDE DIAMETER	T/B	TOP AND BOTTOM
BRK	BRICK	FND	FOUNDATION	OFF	OFFICE	T/G	TONGUE AND GROOVE
BS	BOTH SIDES	FR	FRAMING	OH	OVERHEAD	TB	TOWEL BAR
BSMT	BASEMENT	FRP	FIBERGLASS REINF PLASTIC	OPG	OPENING	TC	TOP OF CURB
BUR	BUILT UP ROOF	FTG	FOOTING	P	PAINT	TEL	TELEPHONE
BN	BOTH WAYS	FTS	FLOOR TRANSITION STRIP	PAF	POWDER ACTIVATED FASTENER	TEMP	TEMPERED
C/G	CURB AND GUTTER	FUR	FURRING	PAVMT	PAVEMENT	TER	TERRAZZO
CAB	CABINET	FURN	FURNACE	PBD	PARTICLE BOARD	TERM	TERMINAL
CE	COVER ELEVATION	FV	FIELD VERIFY	PC	POINT OF CURVATURE	TEX	TEXTURED
CH	CHAIR	GA	GAGE	PCC	PORTLAND CEMENT CONCRETE	TH	THICK (NESS)
CIP	CAST IRON PIPE	GALV	GALVANIZED	PCWP	PREGAST WALL PANEL	THR	THRESHOLD
CIR	CIRCLE	GB	GRAB BAR	PERF	PERFORATED	TOM	TOP OF MASONRY
CJ	CONTROL JOINT	GD	GRADE, GRADING	PERIM	PERIMETER	TOS	TOP OF SLAB
CLG	CEILING	GFB	GLASS FIBER BLANKET/BATT	PF	PREFABRICATED	TOSTL	TOP OF STEEL
CLOS	CLOSET	GFT	GLAZED FLOOR TILE	PFN	PREFINISHED	TOW	TOP OF WALL
CLR	CLEAR (ANGE)	GL	GLASS, GLAZING	PI	POINT OF INTERSECTION	TP	TOP OF PAVEMENT
CMP	CORRUGATED METAL PIPE	GPDW	GYP SUM DRYWALL	PL	PLATE	TPTN	TOILET PARTITION
CMU	CONCRETE MASONRY UNIT	GRAN	GRANULAR	PLM	PROPERTY LINE	TR	TOWEL RING
COL	COLUMN	GRD	GROUND	PLAS	PLASTER	TRTD	TREATED
CONC	CONCRETE	GRT	GROUT	POB	POINT OF BEGINNING	TTD	TOILET TISSUE DISPENSER
CONST	CONSTRUCTION	HB	HOSE BIB	POL	POLISHED	TV	TELEVISION
CONT	CONTINUOUS/CONTINUE	HBD	HARDBOARD	PR	PAIR	TYP	TYPICAL
CONTR	CONTRACTOR	HC	HANDICAP	PRHT	PARTIAL HEIGHT	UC	UNDER COUNTER
COORD	COORDINATE	HCS	HOLLOW CORE SLAB	PSF	POUNDS PER SQUARE FOOT	UG	UNDERGROUND
CORR	CORRIDOR	HDWR	HARDWARE	PT	POINT OF TANGENCY	UNFIN	UNFINISHED
GFT	CARPET	HJH	HORIZONTAL JOINT REINF	PTD	PAPER TOWEL DISPENSER	UNO	UNLESS NOTED OTHERWISE
GRS	COURSE	HM	HOLLOW METAL	PTN	PARTITION	UR	URINAL
CS	COUNTER SHUTTER	HORZ	HORIZONTAL	PVC	POLYVINYL CHLORIDE	VB	VAPOR BARRIER
CSH	CONCRETE SLAB HARDENER	HP	HIGH POINT	PWD	PLYWOOD	VCP	VITREOUS CLAY PIPE
CSMT	CASEMENT	HR	HOOR	QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE	HT	HEIGHT	R	RADIUS	VERT	VERTICAL
CTR	COUNTER	HTG	HEATING	R	RISER	VIN	VINYL
CJ	CONCRETE UNDERLAYMENT	HVAC	HEATING/VENTILATING AIR CONDITIONING	RA	RETURN AIR	VTR	VENT THRU ROOF
CW	COLD WATER	HW	HOT WATER	RAF	RESILIENT ATHLETIC FLOORING	VNC	VINYL WALL COVERING
CY	CUBIC YARD	ID	INSIDE DIAMETER	RB	RUBBER BASE	W	WEST
DBL	DOUBLE	IDS	INTEGRATED DOOR SYSTEMS	RCP	REFLECTED CEILING PLAN	W	WITH
DOS	DIAPER CHANGING STATION	IE	INVERT ELEVATION	RD	ROOF DRAIN	W/O	WITHOUT
DF	DRINKING FOUNTAIN	INCL	INCLUDING	REF	REFERENCE	WC	WATER CLOSET
DH	DOUBLE HUNG	INST	INSTALLED	REFR	REFRIGERATOR	WD	WOOD
DIA	DIAMETER	INSUL	INSULATION	REINF	REINFORCEMENT	WDW	WINDOW
DIA	DIAGONAL	INT	INTERIOR	REQ'D	REQUIRED	WH	WATER HEATER
DIM	DIMENSION	INV	INVERT	REV	REVERSE	WPT	WORKING POINT
DIP	DUCTILE IRON PIPE	JFB	JOINT FILLER BOARD	RH	RIGHT HAND	WR	WASTE RECEPTACLE
DISP	DISPENSER	JST	JOIST	RH	ROBE HOOK	WSCOT	WAINSCOT
DN	DOWN	JT	JOINT	RLT	RESILIENT LANDING TILE	WT	WEIGHT
DP	DEEP	KIT	KITCHEN	RM	ROOM	WWF	WELDED WIRE FABRIC
DR	DOOR	KO	KNOCKOUT	RO	ROUGH OPENING	XL	EXIT LIGHT
DS	DOWN SPOUT	LAM	LAMINATE(D)	ROW	RIGHT OF WAY	YD	YARD
DTL	DETAIL	LAV	LAVATORY	S	SOUTH		
DW	DISHWASHER	LBS	POUNDS	SAN	SANITARY		
DWG	DRAWING	LDR	LADDER	SBLK	SPLASH BLOCK		
DWR	DRAWER	LH	LEFT HAND	SC	SHOWER CURTAIN		
E	EAST	LL	LIVE LOAD				
EF	EACH FACE						
EJ	EXPANSION JOINT						
EL	ELEVATION						

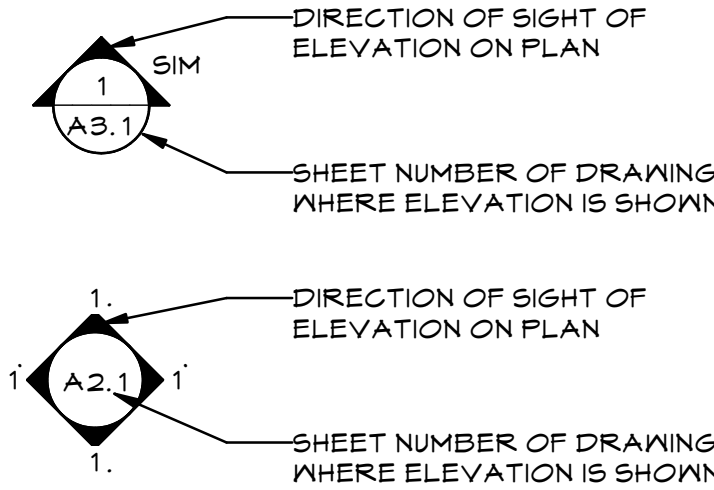
ARCHITECTURAL SYMBOLS

Name	ROOM NAME / NUMBER
101	
100	DOOR NUMBER
A	WALL TAG
III	WINDOW TAG

SECTION IDENTIFICATION



ELEVATION IDENTIFICATION

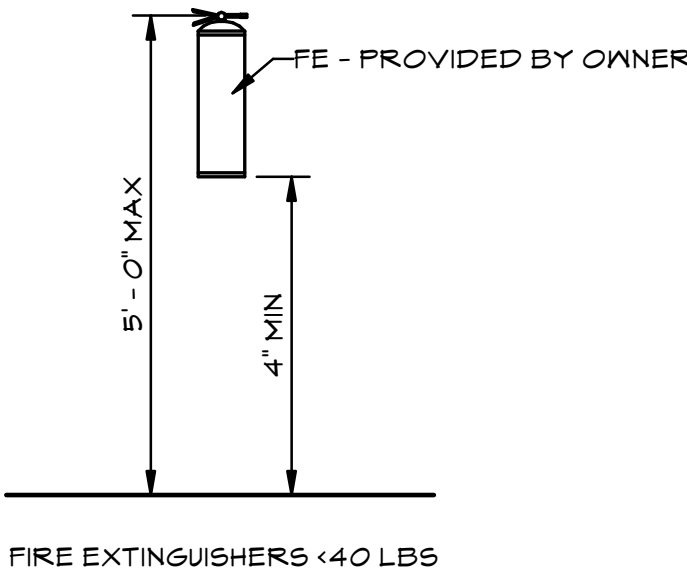


LEGEND NOTES

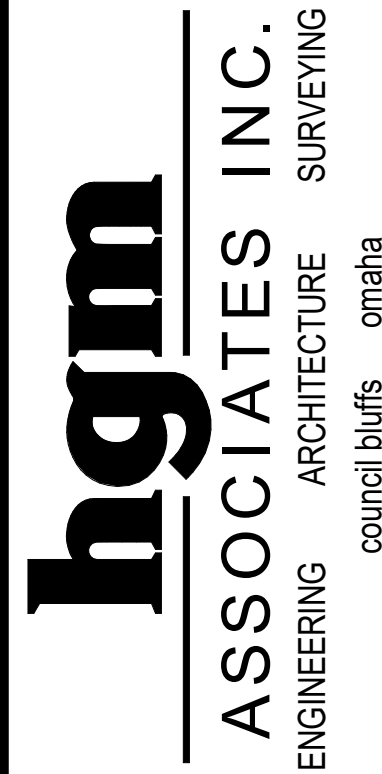
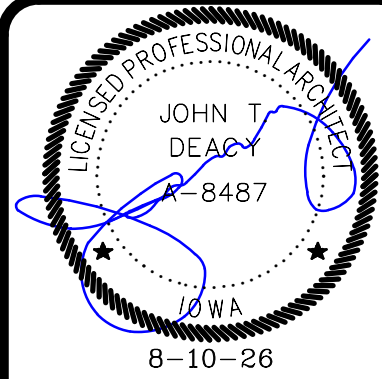
- THESE LEGENDS ARE COMPOSED OF STANDARD SYMBOLS CONTAINED IN THIS SET.
- ADDITIONAL LEGENDS AND/OR OTHER LEGEND SHEETS MAY APPEAR IN THIS SET OF DRAWINGS TO INDICATE SPECIFIC CONDITIONS IN LIEU OF SYMBOLS SHOWN ON THIS SHEET.

ARCHITECTURAL LEGEND

///	GLASS
XXXXXX	INSULATION
XXXXXX	RIGID INSULATION
XXXXXX	GPDW
XXXXXX	WOOD (FINISH)
XXXXXX	WOOD (ROUGH)
XXXXXX	MASONRY VENEER
XXXXXX	CMU (PLAN)
XXXXXX	CMU (SECTION)
XXXXXX	CONCRETE
XXXXXX	EARTH



1 TYP MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"



This drawing is being made in accordance with the standards of the International Building Code and the International Fire Code, as adopted by the City of Council Bluffs, Iowa. The design is based on the information provided by the client and is not to be used for any other purpose without the written consent of hgm Associates Inc. hgm Associates Inc. assumes no liability for any use of this drawing for any purpose other than that for which it was prepared, except in accordance with the terms of the above agreement.

Rev#	Date
HGM	drawn
HGM	designed
HGM	approved
8-10-26	date

HHS STS NEW GARAGE BLDG REBID #2
3211 Edgington Ave., Eldora, IA 50627

project no.
106025
9476.01
sheet

client
sheet

project no.
106025
9476.01
sheet

G1.2

8/10/2026 4:20:10 PM C:\Revit Temp Files\106025 IDAS STS Garage RVT24_hkjeldgaard.rvt

CODE ANALYSIS

DESIGN CODES

2024 INTERNATIONAL BUILDING CODE
2015 NFPA 101 LIFE SAFETY CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2024 INTERNATIONAL FIRE CODE
2024 UNIFORM PLUMBING CODE
2023 NATIONAL ELECTRICAL CODE
2024 INTERNATIONAL MECHANICAL CODE

OCCUPANCY CLASSIFICATION

OCCUPANCY TYPE = S-2 - STORAGE
NO HAZARDOUS MATERIALS ARE TO BE STORED
WITHIN THIS BUILDING.
LOW-HAZARD STORAGE FOR FLEET VEHICLE STORAGE

TYPE OF CONSTRUCTION

TYPE "VB"
SPRINKLER - NO
FIRE ALARM SYSTEM - NO
DRAFT STOPS - NOT REQUIRED
MAXIMUM TRAVEL DISTANCE BETWEEN FIRE
EXTINGUISHERS IS NOT TO EXCEED 75 FEET.

ALLOWABLE AREA

ALLOWABLE NUMBER OF FLOORS - 2 STORIES
ALLOWABLE AREA PER FLOOR - 13,500 SF

ALLOWABLE HEIGHT - 40 FT

Gross Building Area

Name	Area
First Floor	3364 SF
	3364 SF
Number of Floors - 1	
Actual Height - 19'-11 1/8"	

EXIT ACCESS AND EGRESS

300 FT. MAX TRAVEL DISTANCE

ILLUMINATED EXIT SIGNS SHALL BE
PROVIDED FOR EGRESS DOORS

DOORS SHALL PROVIDE MINIMUM CLEAR
WIDTH OF 32 INCHES

EGRESS ILLUMINATION OF 1 FOOTCANDLE
SHALL BE PROVIDED

LIFE SAFETY NOTES.

1. FOR EXIT LIGHTS AND EMERGENCY LIGHTING, SEE
ELECTRICAL LIGHTING DRAWINGS (E SERIES).

LIFE SAFETY SYMBOLS.

EXIT DOOR TAG

A	PROVIDED CLEAR DOOR WIDTH [INCHES]
B	OCCUPANT LOAD CAPACITY [NO. OF PEOPLE]

LINE TYPES FOR MEANS OF EGRESS

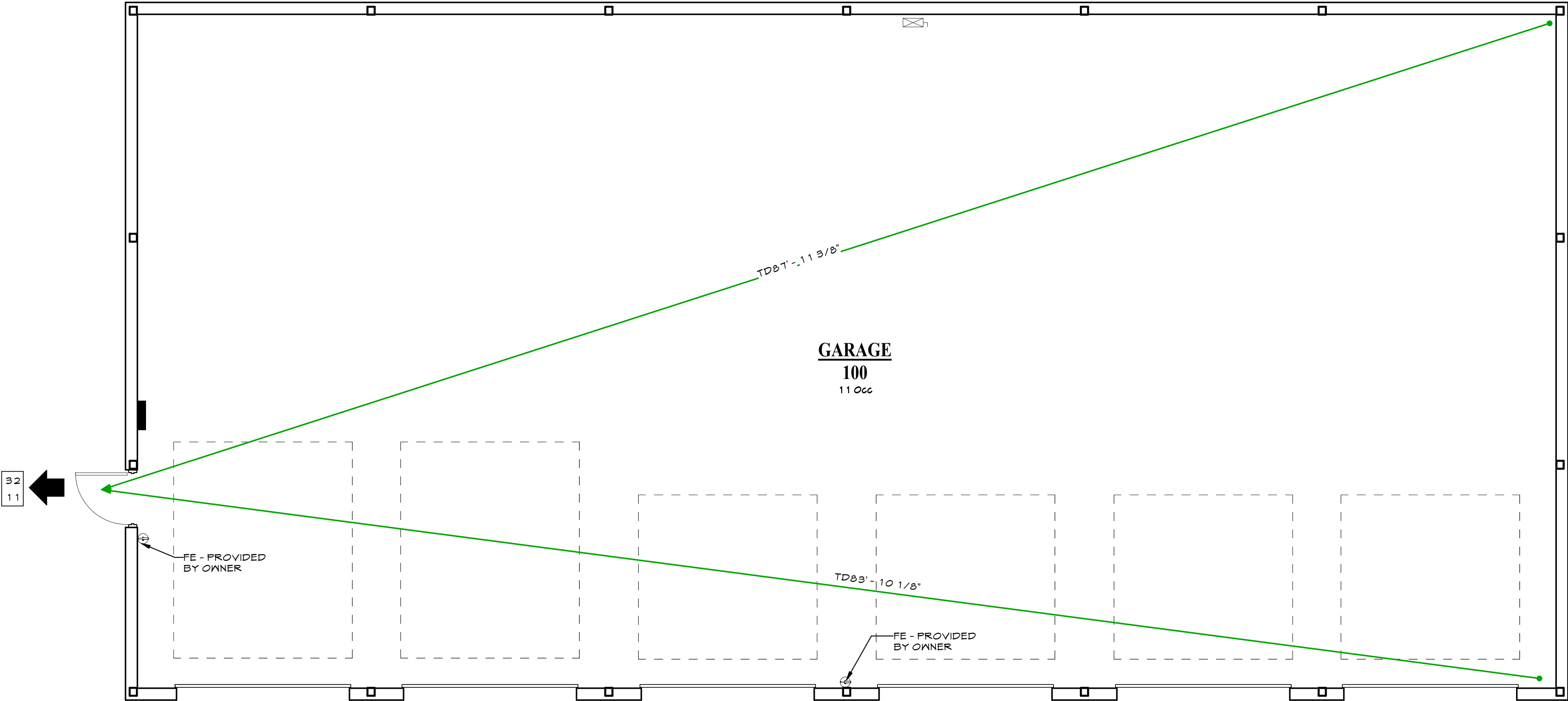
COMPONENT	SYMBOL
TRAVEL DISTANCE	TD
COMMON PATH	CP

EXIT DISCHARGE

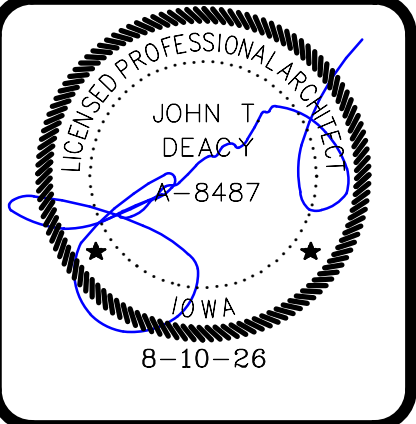
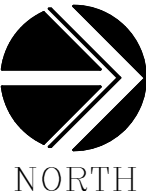
EXIT DISCHARGE ARROW

IBC 2024 Occupancy Loads by Room					
Rm#	Room Name	Area	Function of Space	Load Factor	Occupants
FIRST FLOOR					
100	GARAGE	3196 SF	Parking Garage - Low Hazard	300 SF	11
FIRST FLOOR					
Grand total					11

NOTE: BUILDING IS A FLEET
VEHICLE STORAGE GARAGE,
NOT A PUBLIC PARKING
STRUCTURE. OCCUPANT LOAD
CALCULATED PER S-2
STORAGE, TABLE 1004.1.2



1 CODE FLOOR PLAN
SCALE: 1/4" = 1'-0"



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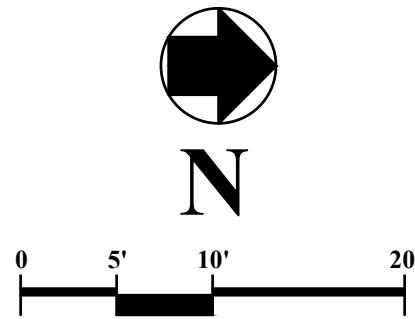
project client sheet

CODE PLAN

project no.
106025
9476.01
sheet

G1.3

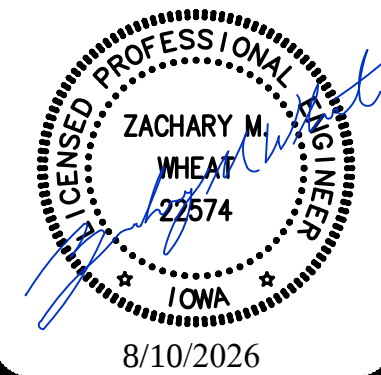
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1 TOPOGRAPHIC SURVEY

SCALE: 1" = 10'-0"

IOWA
ONE CALL



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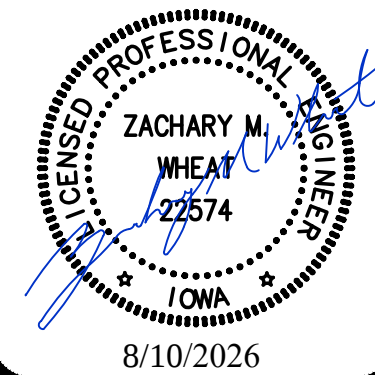
JNS	ZMW	ZMW	ZMW	date	revision	date
drawn	designed	approved	approved	8-10-26		

project HHS STS NEW GARAGE BLDG REBID #2
client IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
sheet TOPOGRAPHIC SURVEY

project no. 106025
sheet C1.0

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date	revision	date
JNS		
drawn		
ZMW		
designed		
ZMW		
approved		
8-10-26		

project HHS STS NEW GARAGE BLDG REBID #2

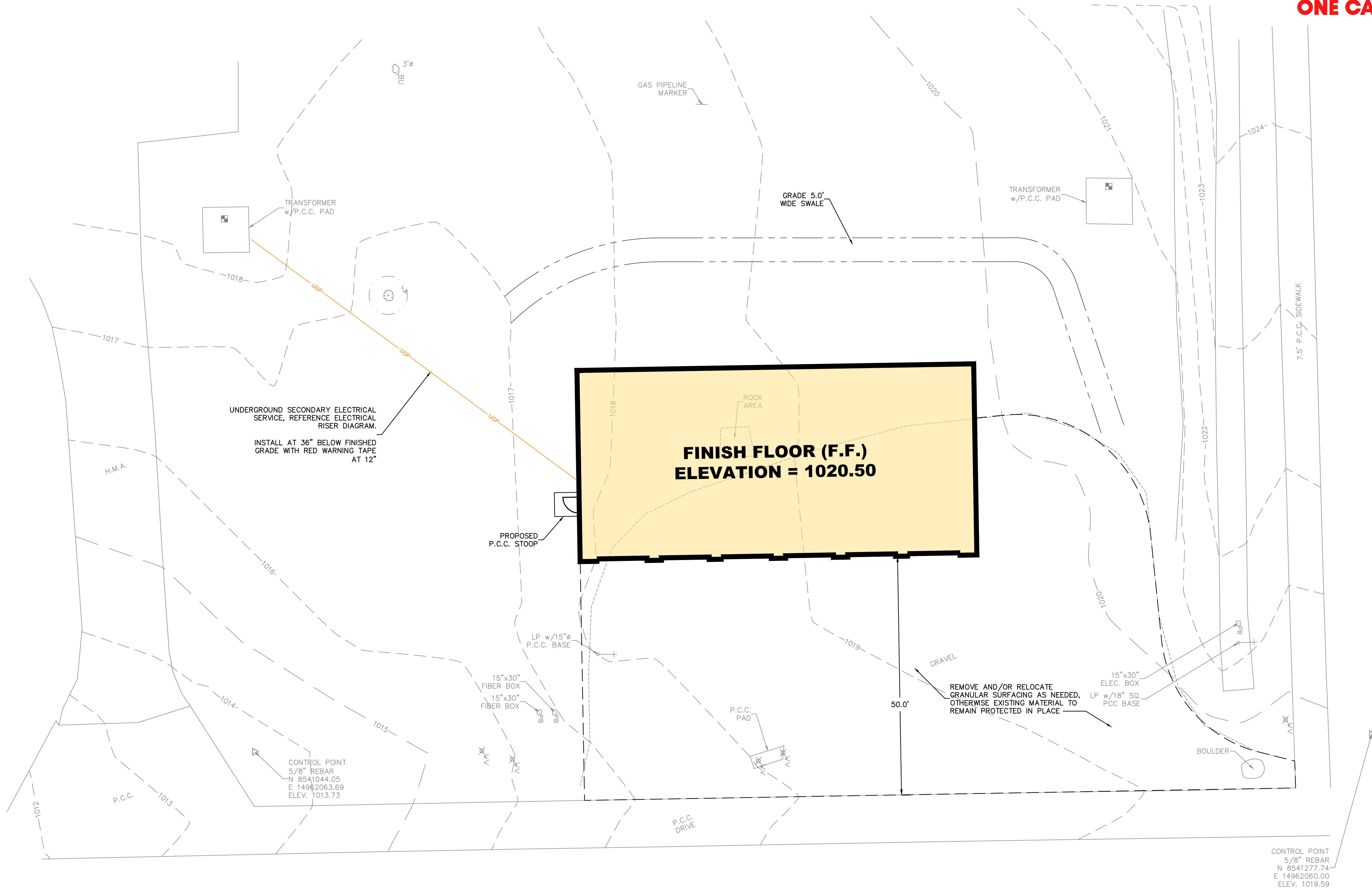
client IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES

sheet CIVIL SITE PLAN

project no.
106025

sheet

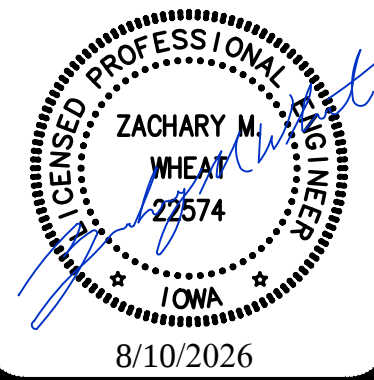
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1 CIVIL SITE PLAN
SCALE: 1" = 10'-0"

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DRAWN BY: jns, SAVE DATE: Oct 9, 2025 10:39 AM DATE PLOTTED: 4/27/2026 8:20 AM, PLOT SCALE: 1:1

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JNS	ZMW	ZMW	ZMW	date	revision	date
drawn	designed	approved		8-10-26		

project HHS STS NEW GARAGE BLDG REBID #2

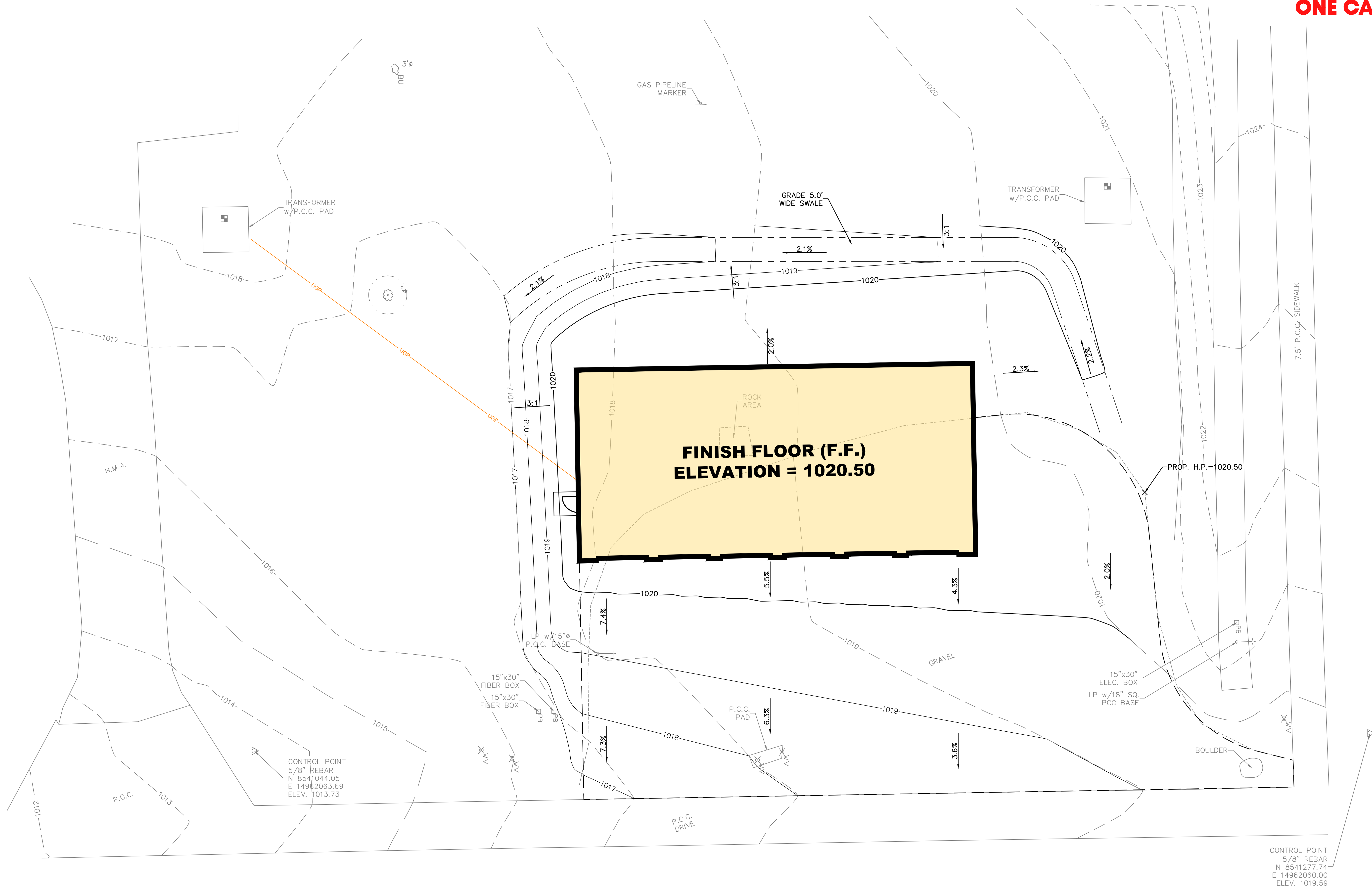
client IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES

sheet GRADING PLAN

project no.
106025

sheet

C3.0



1 GRADING PLAN

SCALE: 1" = 10'-0"

NOTE

THERE WILL BE APPROXIMATELY 600 CY OF FILL NEEDED. THE QUANTITIES PROVIDED ARE FOR ORDER OF MAGNITUDE PURPOSES ONLY. ALL QUANTITIES ARE TO BE VERIFIED BY THE AWARDED CONTRACTOR.

25 CY CUT
620 CY FILL (INCLUDES 1.35 FILL-FACTOR)
595 CY BORROW

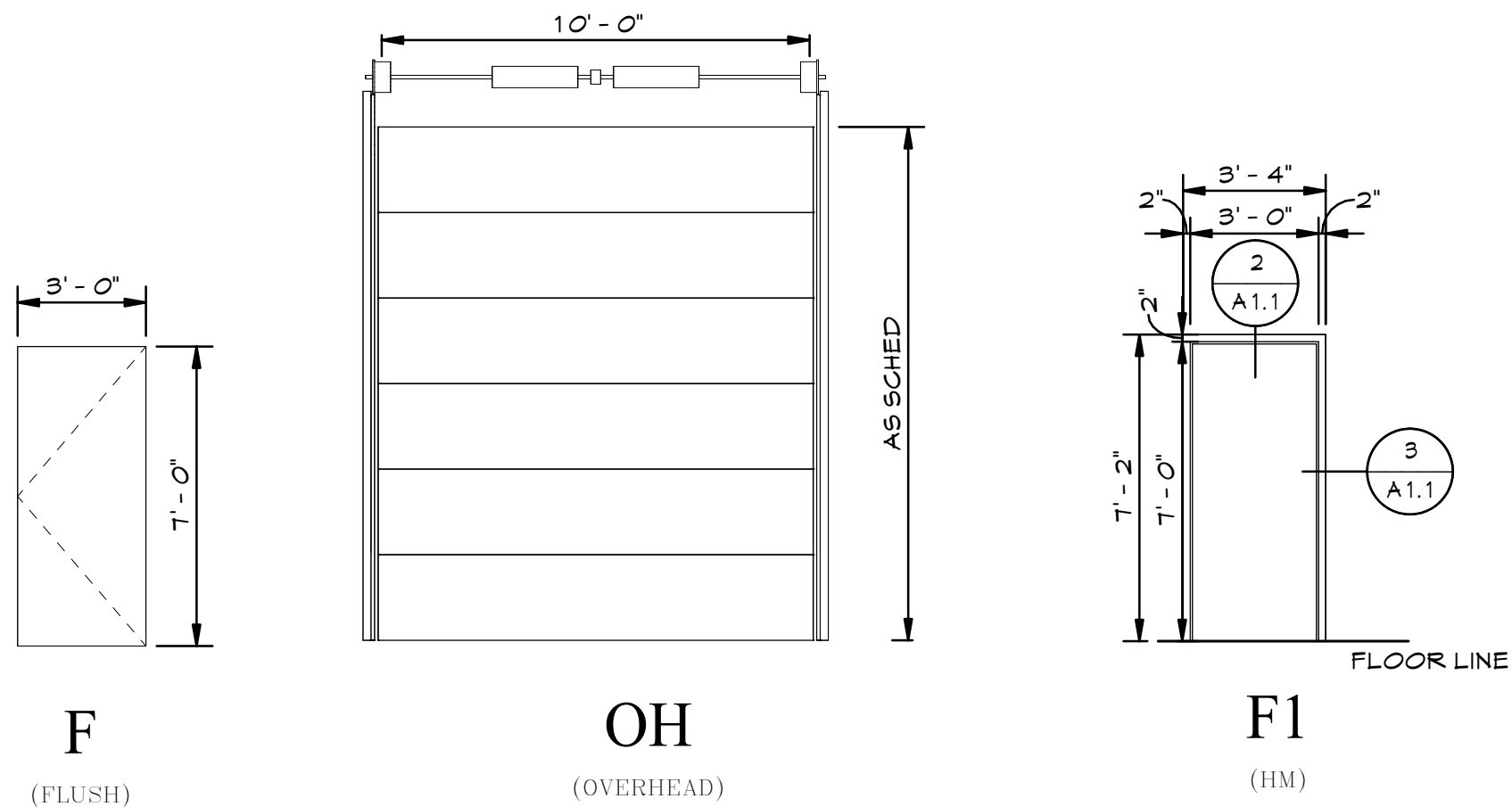
8/10/2026 4:19:44 PM C:\Revit Temp Files\106025 IDAS STS Garage RVT24_hkjeldgaard.rvt

DOOR SCHEDULE										
			DOOR			FRAME			FIRE RATING	NOTES
DOOR NUMBER	ROOM	SIZE (WxHxT)	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH		
100A	GARAGE	3'-0" x 7'-0" x 1 3/4"	F	HM	PRIMED	F1	HM	PAIN	-	NOTES 1 & 2
100B	GARAGE	10'-0" x 12'-0" x 2"	OH	-	PFN	-	-	-	-	
100C	GARAGE	10'-0" x 12'-0" x 2"	OH	-	PFN	-	-	-	-	
100D	GARAGE	10'-0" x 9'-0" x 2"	OH	-	PFN	-	-	-	-	
100E	GARAGE	10'-0" x 9'-0" x 2"	OH	-	PFN	-	-	-	-	
100F	GARAGE	10'-0" x 9'-0" x 2"	OH	-	PFN	-	-	-	-	
100G	GARAGE	10'-0" x 9'-0" x 2"	OH	-	PFN	-	-	-	-	

NOTES:
1. DOOR PAINT BY OWNER
2. LOCKSET PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR, HINGES PROVIDED AND INSTALLED BY CONTRACTOR

MATERIAL NOTES:

- 1. METAL WALL PANELS SHALL BE IN THE COLOR SIERRA TAN.
- 2. METAL ROOF PANELS SHALL BE IN THE COLOR WHITE.
- 3. SOFFITS SHALL BE IN THE COLOR WHITE.



DOOR TYPES

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

DOOR FRAME TYPES

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

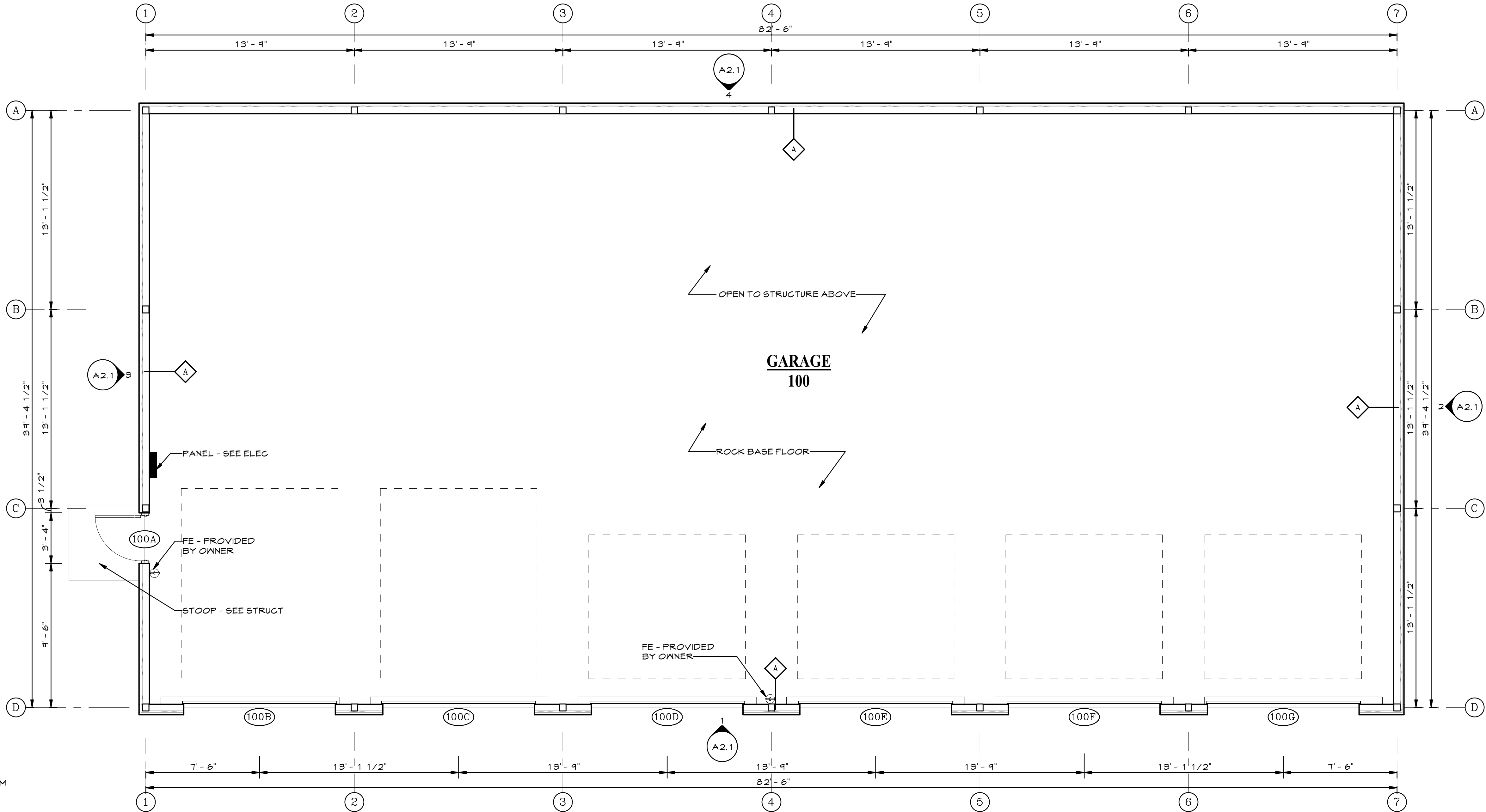
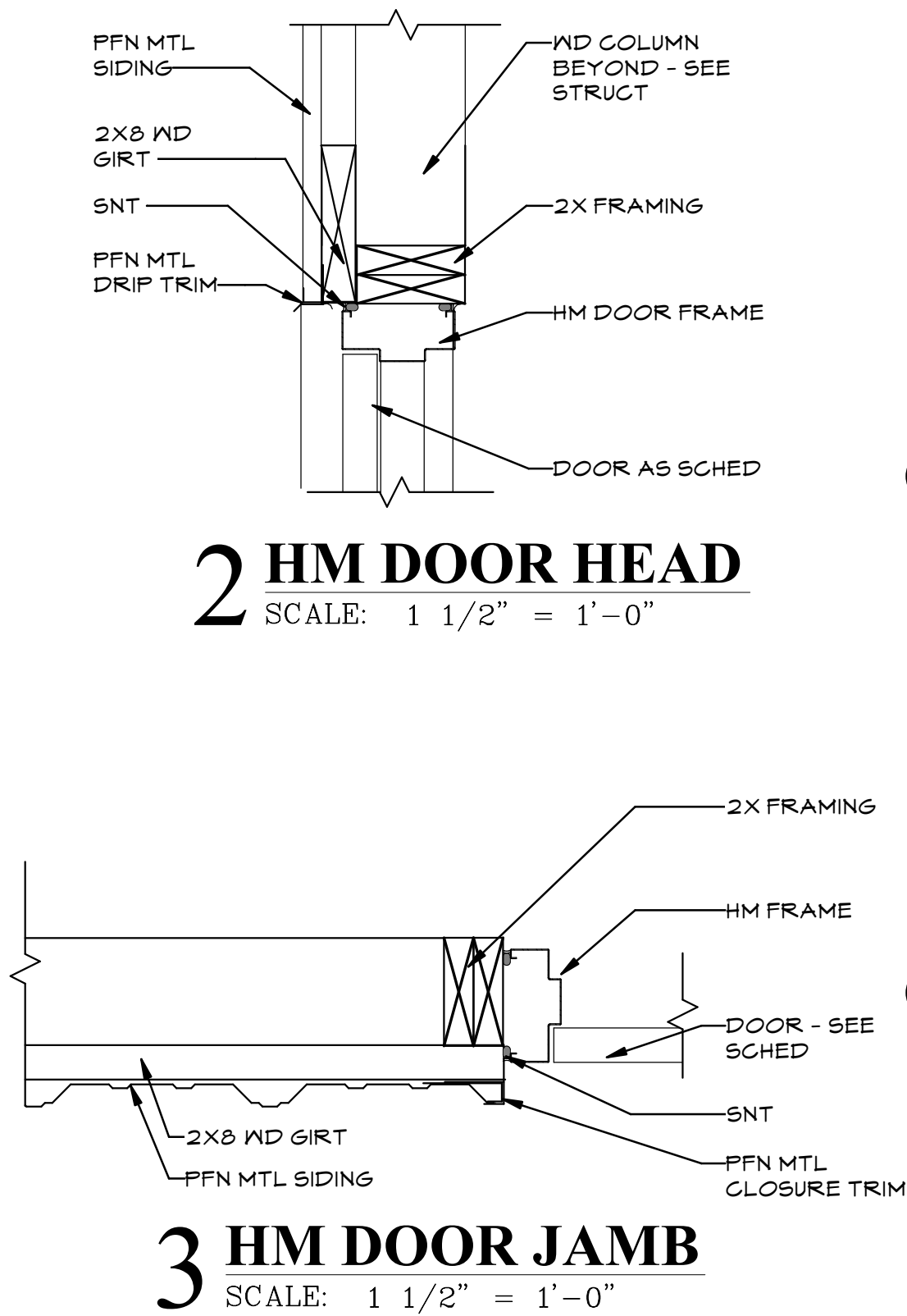
FLOOR PLAN NOTES:

- 1. IF THE CONTRACTOR FAILS TO OBTAIN WRITTEN CLARIFICATION OF INCONSISTENCIES IN THE BID DOCUMENTS FROM THE ARCHITECT, HE SHALL BID THE MORE EXPENSIVE VERSION.
- 2. DIMENSIONS SHOWN ON FLOOR PLANS ARE TO CENTER LINE OF COLUMNS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS SCALE.
- 3. DOOR 100A LOCKSET SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL SUPPLY TEMPORARY LOCKSET DURING CONSTRUCTION AND SHALL COORDINATE FINAL LOCKSET INSTALL WITH OWNER.
- 4. ALL OVERHEAD DOORS SHALL RECEIVE 2 DOOR OPERATORS EACH.

WALL TYPE LEGEND

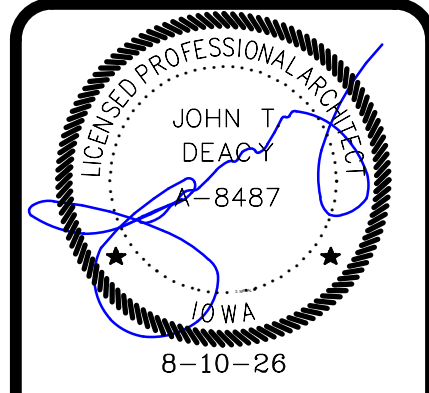


Fire Rating: NOT RATED
STC: N/A
EXT. MTL SIDING, 2X WD GIRT AND 2X WD SKIRT ALONG BOTTOM OF WALLS - SEE STRUCTURAL



1 FLOOR PLAN

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



ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING

council bluffs
omaha

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Rev#	Date
HGM	drawn
HGM	designed
HGM	approved
8-10-26	date

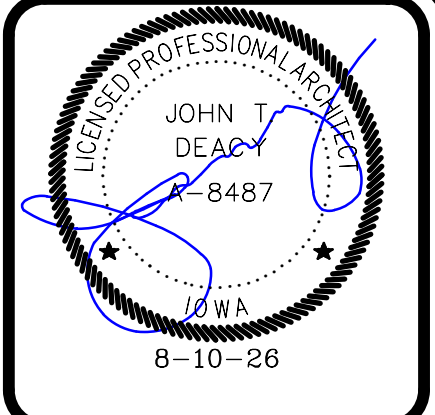
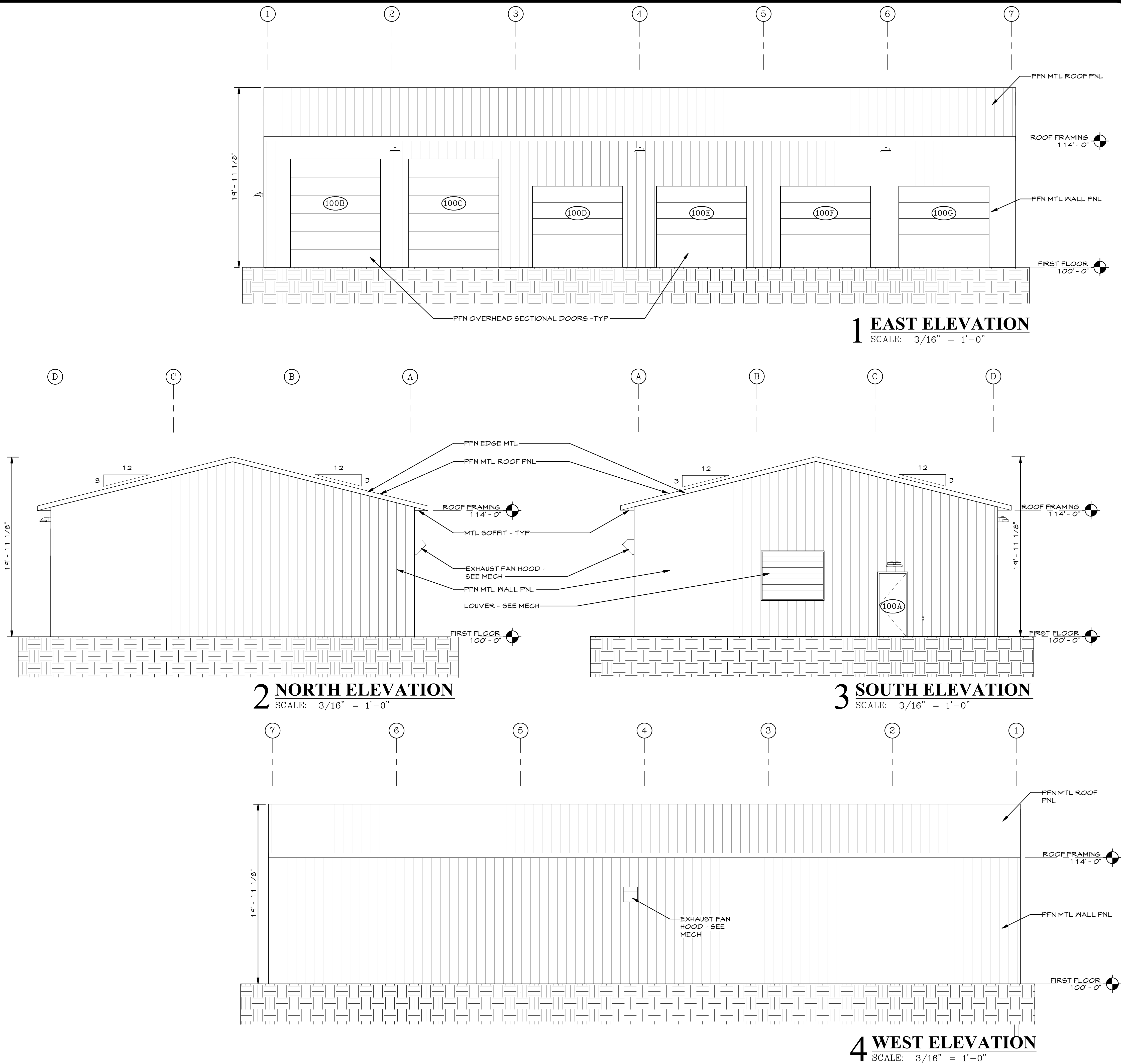
HHS STS NEW GARAGE BLDG REBID #2
3211 Edgington Ave, Eldora, IA 50627

project client sheet

FLOOR PLAN

project no.
106025
9476.01
sheet

A1.1



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council bluffs ontario

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Rev#	Date
HGM	drawn
HGM	designed
HGM	approved
8-10-26	date

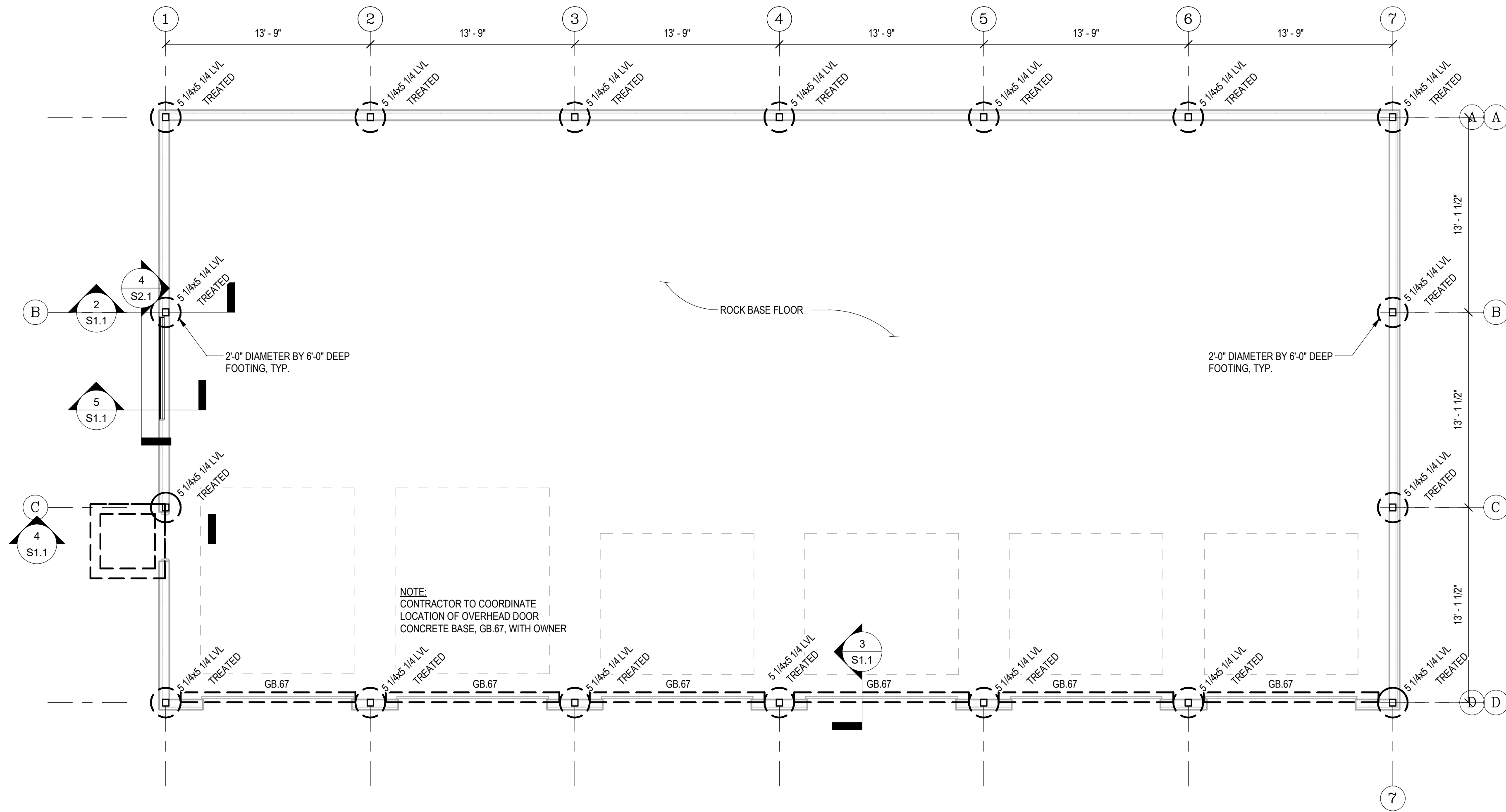
HHS STS NEW GARAGE BLDG REBID #2
3211 Edgington Ave., Eldora, IA 50627

project client sheet

EXTERIOR ELEVATIONS

project no.
106025
9476.01
sheet

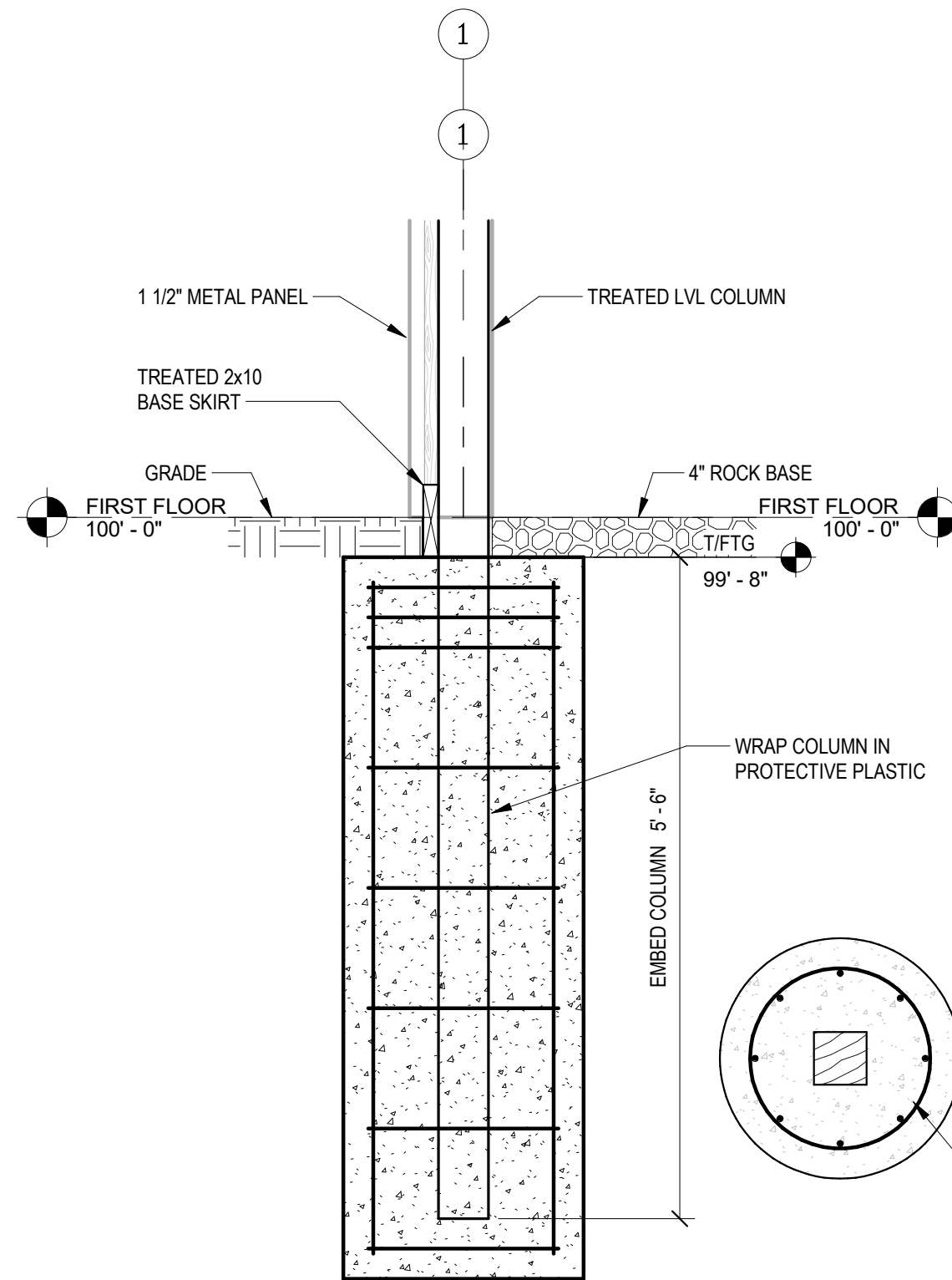
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NOTES:
T.O. 4" ROCK BASE EL = 100'-0", U.N.O.
T.O. FTG EL = 99'-8", U.N.O.

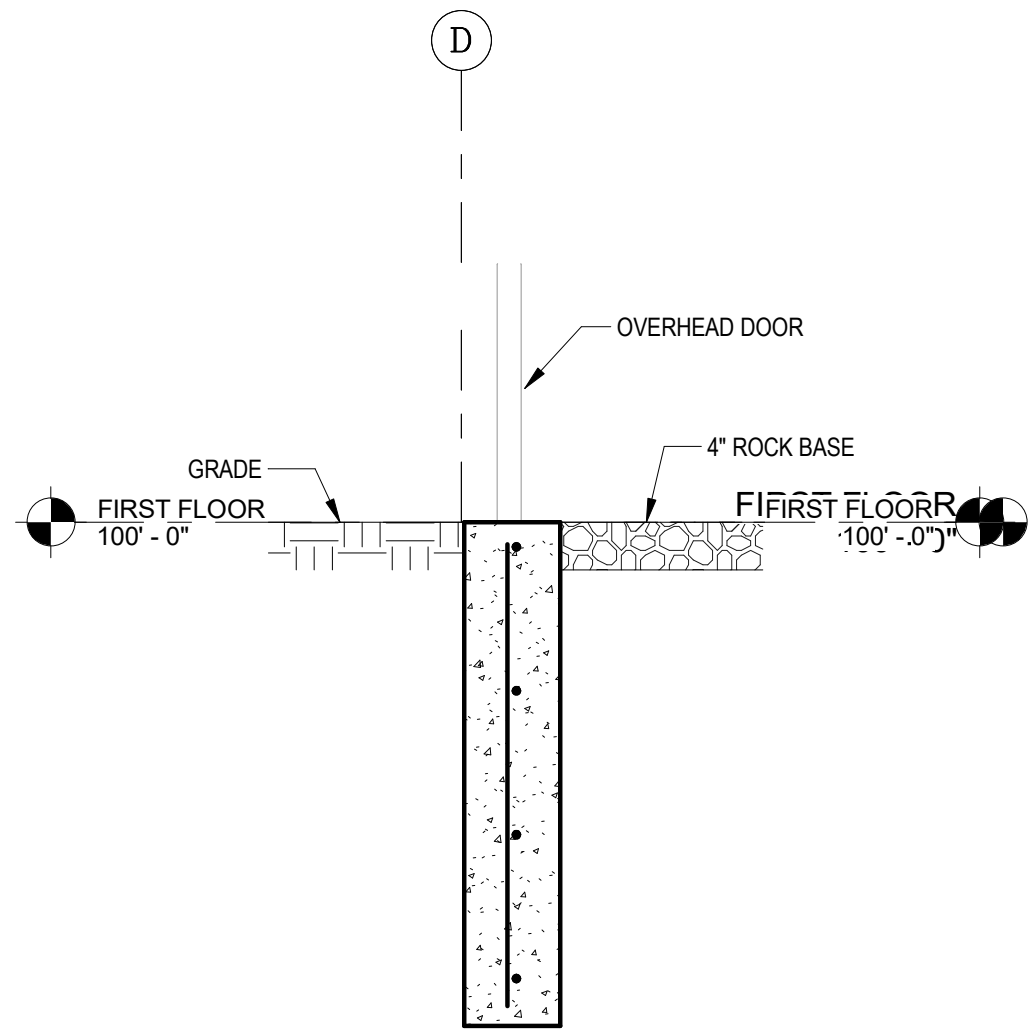
1 FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



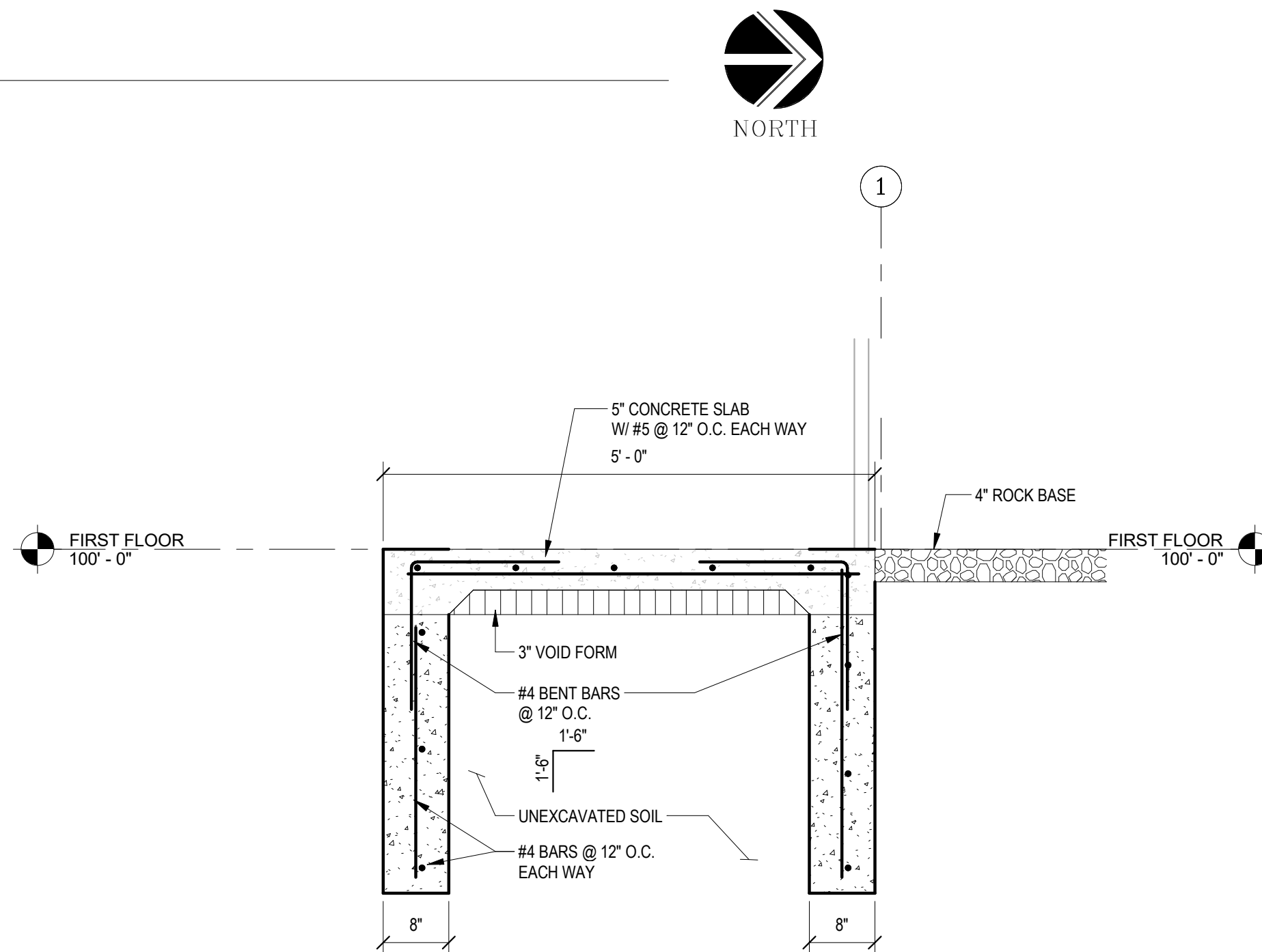
2 FOUNDATION SECTION

SCALE: 3/4" = 1'-0"



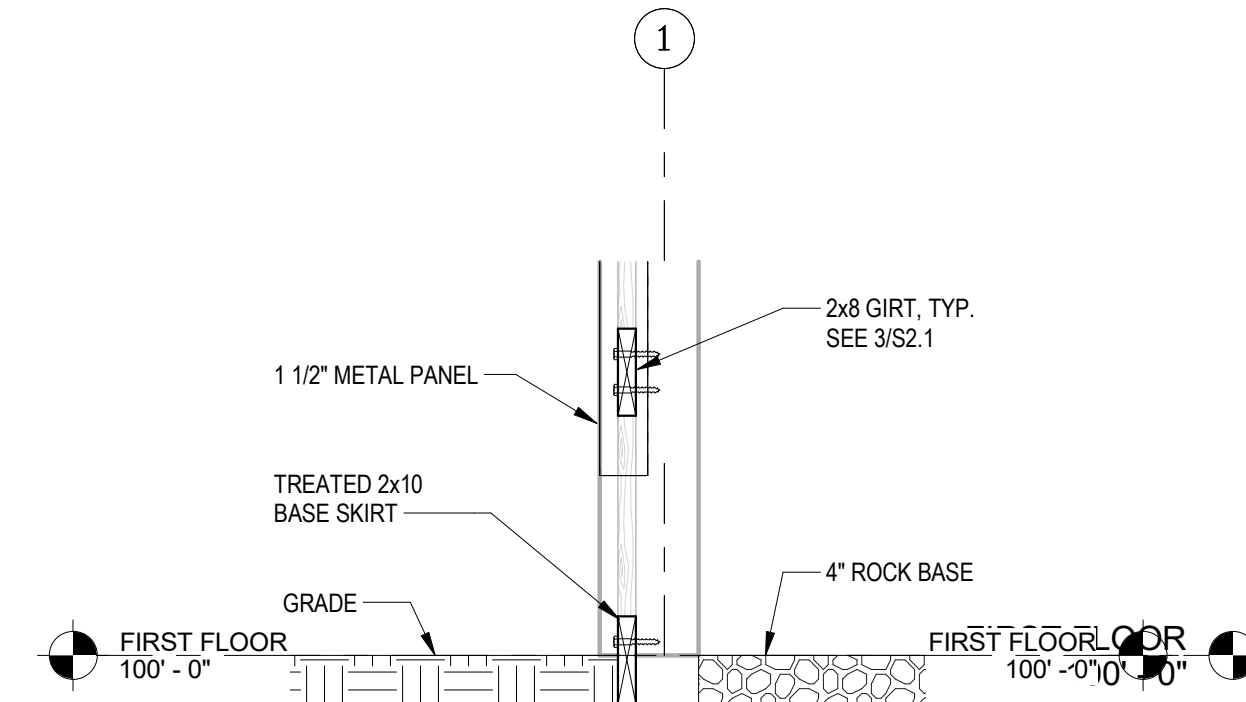
3 SECTION @ OH DOOR

SCALE: 3/4" = 1'-0"



4 STOOP SECTION

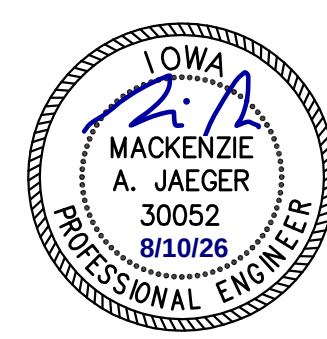
SCALE: 3/4" = 1'-0"



5 FOUNDATION SECTION

SCALE: 3/4" = 1'-0"

PERFORMANCE
Engineering
11811 Fort Street, Suite 104 - Omaha, NE 68164
(402) 343-3960 Fax: (402) 343-3961
NE-CA2455
399 Perry St., Suite 204A - Castle Rock, CO 80104
(303) 721-3322
PE #: 250024



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council bluffs omaha

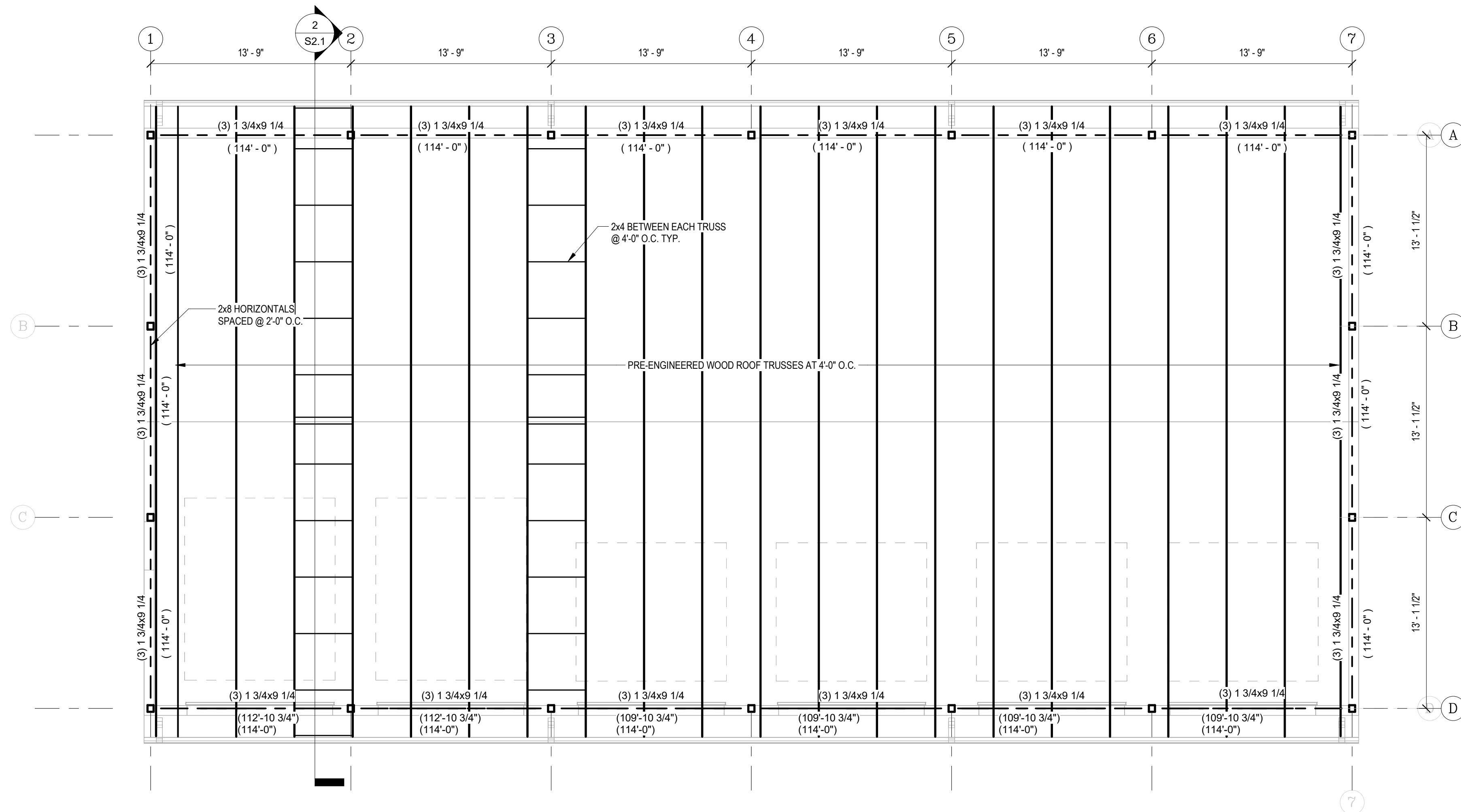
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Rev#	Date
MLL	drawn
MAJ	designed
MAJ	approved
08-10-26	date

project **HHS STS NEW GARAGE BLDG REBID #2**
3211 Edgington Ave, Eldora, IA 50627
client **IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES**
sheet **FOUNDATION PLAN & DETAILS**

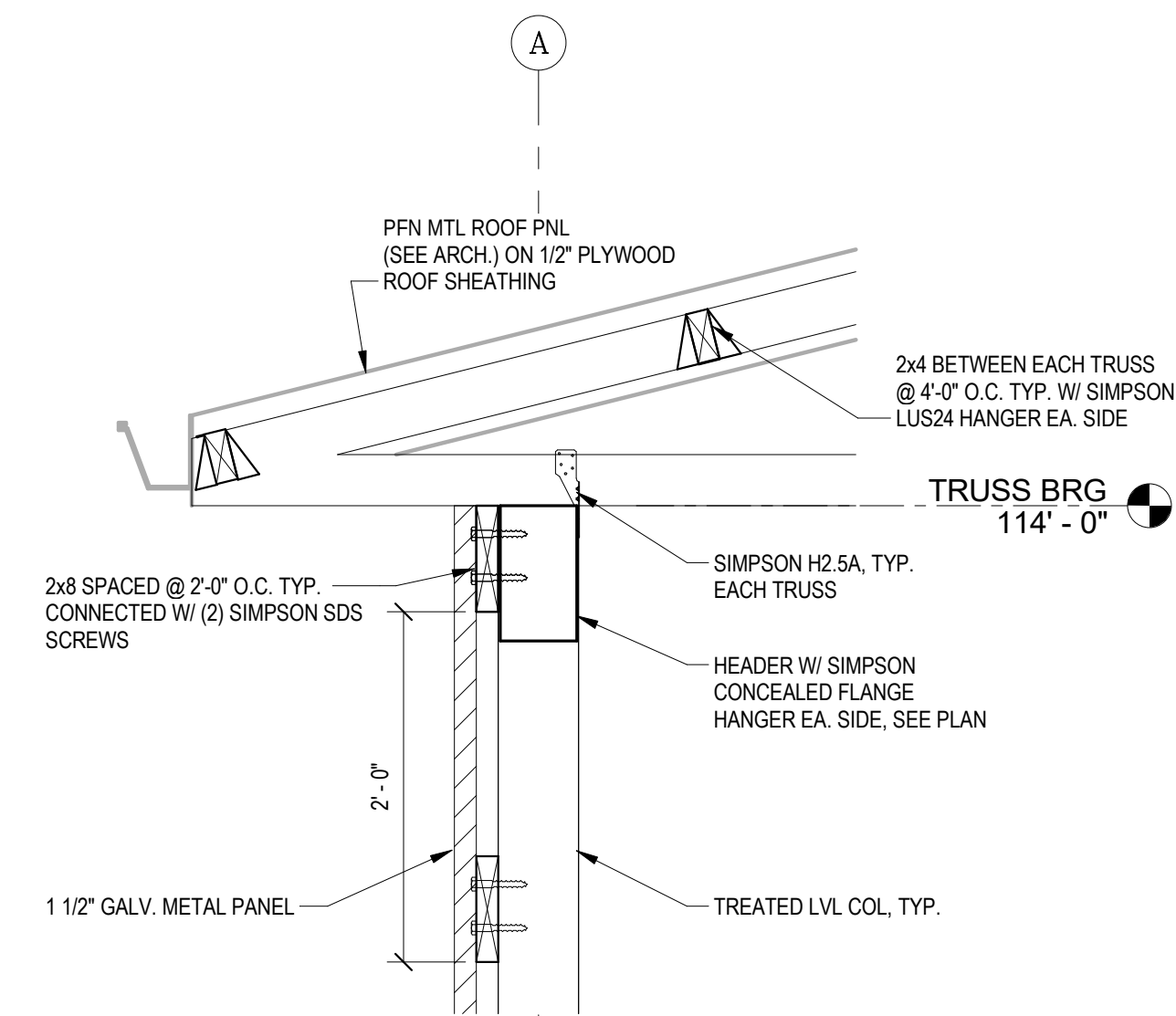
project no.
106025
9476.01
sheet

S1.1

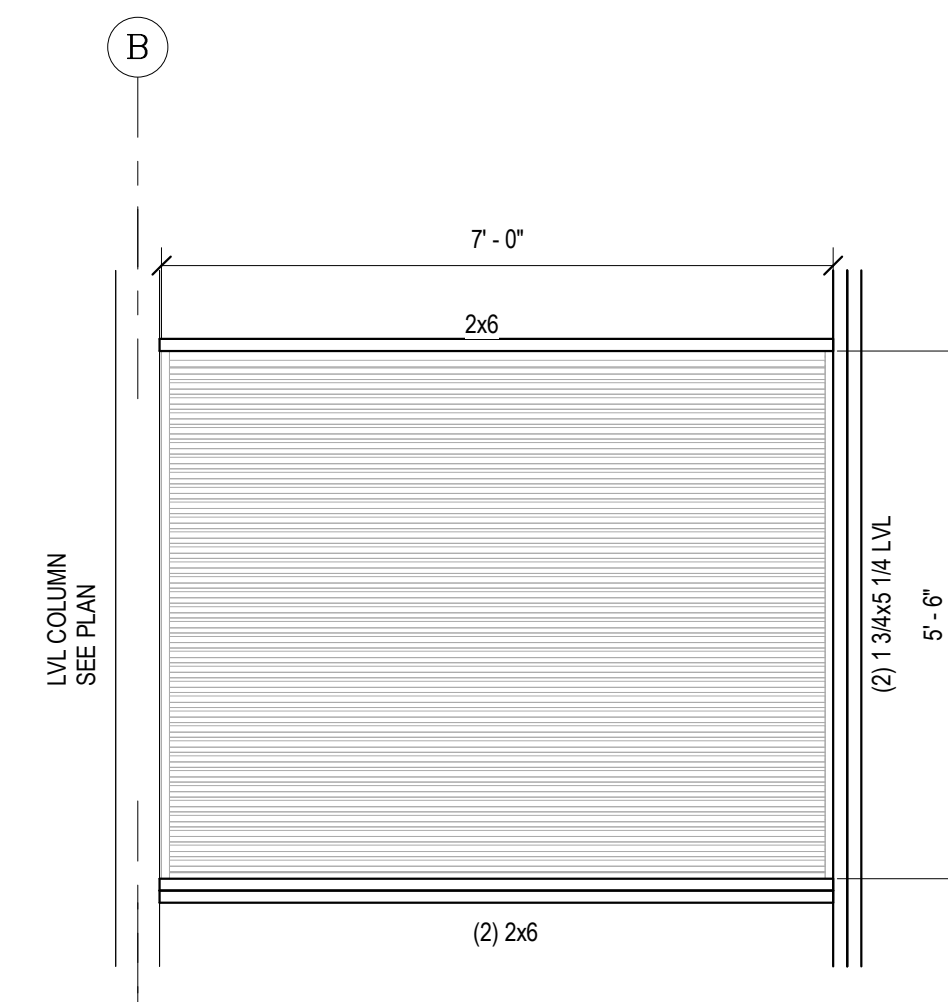


1 ROOF FRAMING PLAN

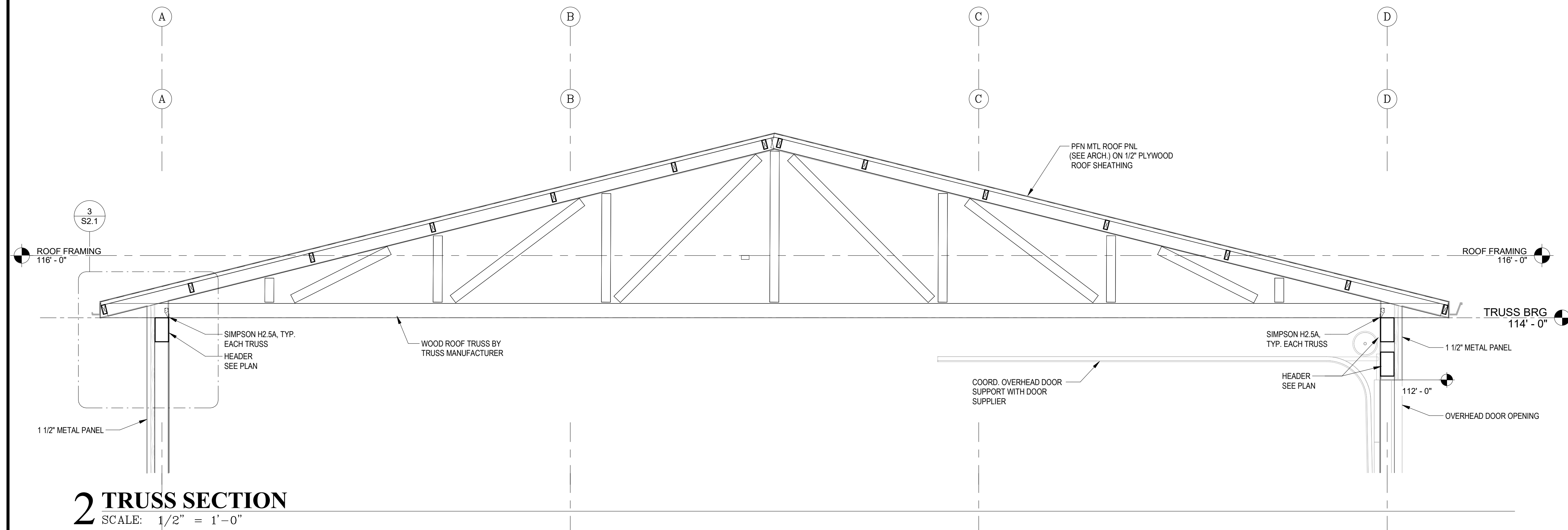
SCALE: $3/16" = 1'-0"$



3 TRUSS BEARING DETAIL



4 MECH. LOUVER FRAMING



2 TRUSS SECTION

SCALE: $1/2" = 1'-0"$

GENERAL STRUCTURAL NOTES:

A.	DESIGN CRITERIA:	
	DESIGN CODE:	IBC 2024
	DESIGN LOADS	
	GRAVITY LOADS	
	ROOFS: DL = 10 PSF	
	LL BASED ON GRAVITY SNOW LOAD OF 25 PSF	
	($C_e = 1.0$, $C_t = 1.2$, and $I = 0.8^{**}$)	
	** INCREASE LIVE LOAD FOR SNOW DRIFTING AS REQUIRED IN CONFORMANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS ANSI/AISC 7-16	
	WIND LOAD CRITERIA (2024 IBC)	
	BASE WIND SPEED (3 SECOND GUST),	
	"V" = 105 MPH	
	BUILDING CATEGORY I	
	IMPORTANCE FACTOR "Iw" = 1.0"	
	EXPOSURE CATEGORY C	
	CONCRETE 28 DAY STRENGTH	F'C = 4,000 PSI
	ALLOWABLE SOIL BEARING CAPACITY	1,500 PSF (ASSUMED MINIMUM)
	WOOD MEMBERS	DOUGLAS FIR LARCH NO. 2 MINIMUM
	(TREATED WOOD MEMBERS REQUIRED AT ALL LOCATIONS WHERE WOOD IS IN CONTACT WITH GROUND)	



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	Rev#	Date
MLL drawn		
MAJ designed		
MAJ approved		
08-10-26 date		

MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU-XX	AIR HANDLING UNIT, XX=UNIT NUMBER
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B-XX	BOILER, XX=UNIT NUMBER
BC-XX	BLOWER COIL, XX=UNIT NUMBER
BLDG	BUILDING
BOO	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CFM	CUBIC FEET PER MINUTE
CSA-AUS	CANADIAN STANDARDS ASSOCIATION (FORMERLY AGA)
CU-XX	CONDENSING UNIT, XX=UNIT NUMBER
CUH-XX	CABINET UNIT HEATER, XX=UNIT NUMBER
DCW	DOMESTIC COLD WATER
DEG	DEGREE
DEMO	DEMOLITION
DHW	DOMESTIC HOT WATER
DHWC	DOMESTIC HOT WATER CIRCULATOR
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DWH-XX	DOMESTIC WATER HEATER, XX=UNIT NUMBER
EF-XX	EXHAUST FAN, XX=UNIT NUMBER
ERV-XX	ENERGY RECOVERY VENTILATOR, XX=UNIT NUMBER
ET-XX	EXPANSION TANK, XX=UNIT NUMBER
EXIST	EXISTING
F-XX	FURNACE, XX=UNIT NUMBER
FCU-XX	FAN COIL UNIT, XX=UNIT NUMBER
FD	FIRE DAMPER
FSM	FEET PER MINUTE
FSD	FIRE & SMOKE DAMPER
FT	FEET OR FOOT
FT-XX	FIN TUBE, XX=UNIT NUMBER
G	NATURAL GAS
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HEAT PUMP
HP-XX	HEAT PUMP, XX=UNIT NUMBER
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY
HUH-XX	HORIZONTAL UNIT HEATER, XX=UNIT NUMBER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH
KV	KILOVOLT
KW	KILOWATT
LB	POUND
LTG	LIGHTING
MAX	MAXIMUM
MAU-XX	MAKE-UP AIR UNIT, XX=UNIT NUMBER
MFR	MANUFACTURER
MIN	MINIMUM
MTR	MOTOR
MU	MAKE-UP WATER
MECH	MECHANICAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN OR NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
P-XX	PUMP, XX=UNIT NUMBER
PSI	POUNDS PER SQAURE INCH
PTAC-XX	PACKAGED TERMINAL AIR CONDITIONER, XX=UNIT NUMBER
PTHP-XX	PACKAGED TERMINAL HEAT PUMP, XX=UNIT NUMBER
PWR	POWER
QTY	QUANTITY
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RTN	RETURN
RTU-XX	ROOF TOP UNIT, XX=UNIT NUMBER
SA	SUPPLY AIR
SD	SMOKE DAMPER
SEC	SECOND (SECONDARY)
SHT	SHEET
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STM	STEAM
SWBD	SWITCHBOARD
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UG	UNDERGROUND
UTL	UTILITY
V	VENT
VAV-XX	VARIABLE AIR VOLUME TERMINAL, XX=UNIT NUMBER
VFD-XX	VARIABLE FREQUENCY DRIVE, XX=UNIT NUMBER
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WITH
W/O	WITHOUT
WG	WATER GAUGE
WT	WEIGHT
XA	EXHAUST AIR
XFMR	TRANSFORMER
Ø	DIAMETER

MECHANICAL SYMBOLS

①	NOTE REFERENCE
XX SHT	SECTION IDENTIFICATION SHEET NUMBER
XX SHT	DETAIL IDENTIFICATION SHEET NUMBER
■	ELECTRICAL PANEL
CO	CARBON MONOXIDE SENSOR
NO	NITROGEN DIOXIDE SENSOR

GENERAL NOTES - HVAC

- A ALL WALL MOUNTED DEVICES SHALL BE COORDINATED WITH OTHER TRADES AND ALIGNED WITH ADJACENT WALL MOUNTED DEVICES ON CENTER.
- B PROVIDE FRAMED 1/2" X 1/2" BIRD SCREEN AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AT INDOOR FACE OF LOUVERS, AND AT UNDUCTED AIRFLOW OPENINGS AT EQUIPMENT.

PROJECT DESIGN CRITERIA	
LOCATION: CITY/STATE:	ELDORA, IA
APPLICABLE CODES: BUILDING MECHANICAL PLUMBING FUEL GAS ELECTRICAL	2024 IBC 2024 IMC 2024 UPC 2024 IFGC 2023 NEC
LATITUDE: DEG. N. LAT.	42.36°
ELEVATION: FT. ABOVE SEA LEVEL	1086'
ASHRAE DESIGN CONDITIONS: 0.4% DB/MCWB (COOLING) 99.6% DB (HEATING)	93.0°/76.1° F -4.4° F

GENERAL NOTES - MECHANICAL

- A ALL MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED TO COMPLY WITH ALL APPLICABLE STATE BUILDING CODES.
- B CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND PAY THE ASSOCIATED FEES. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL, AND STATE, AND LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
- C THE CONTRACTOR SHALL PROVIDE A COMPLETE WORKING AND COORDINATED SYSTEM. FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, AND LABOR AS REQUIRED.
- D COORDINATE THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT WITH ELECTRICAL EQUIPMENT, LIGHT FIXTURES, PIPING, CONDUIT, DUCTWORK, AND ALL OTHER CONSTRUCTION TO ALLOW FOR ADEQUATE ACCESS TO SERVICE EQUIPMENT.
- E CONTRACTOR IS RESPONSIBLE FOR COORDINATING DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDE OFFSETS AS NECESSARY. NOT ALL OFFSETS ARE INDICATED ON DRAWINGS.
- F DUCTWORK, PIPING, AND CONDUIT SHALL BE INDEPENDENTLY SUPPORTED. WHERE INDEPENDENT SUPPORT SYSTEMS ARE NOT POSSIBLE, AN ENGINEERING SYSTEM SHALL BE ALLOWED UPON APPROVAL BY ENGINEER OF RECORD.
- G COORDINATE ON-SITE STORAGE OF EQUIPMENT AND MATERIAL WITH FACILITY.
- H CONTRACTOR SHALL REMOVE EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR TOUCHING UP PAINT WHERE REQUIRED.
- I MECHANICAL AND PLUMBING SYSTEMS SHALL BE COORDINATED WITH NEW ELECTRICAL DISCONNECTS, PANELS, AND CONNECTIONS TO MAINTAIN ALL NEC REQUIRED CLEARANCES.

FAN SCHEDULE

NOTES:

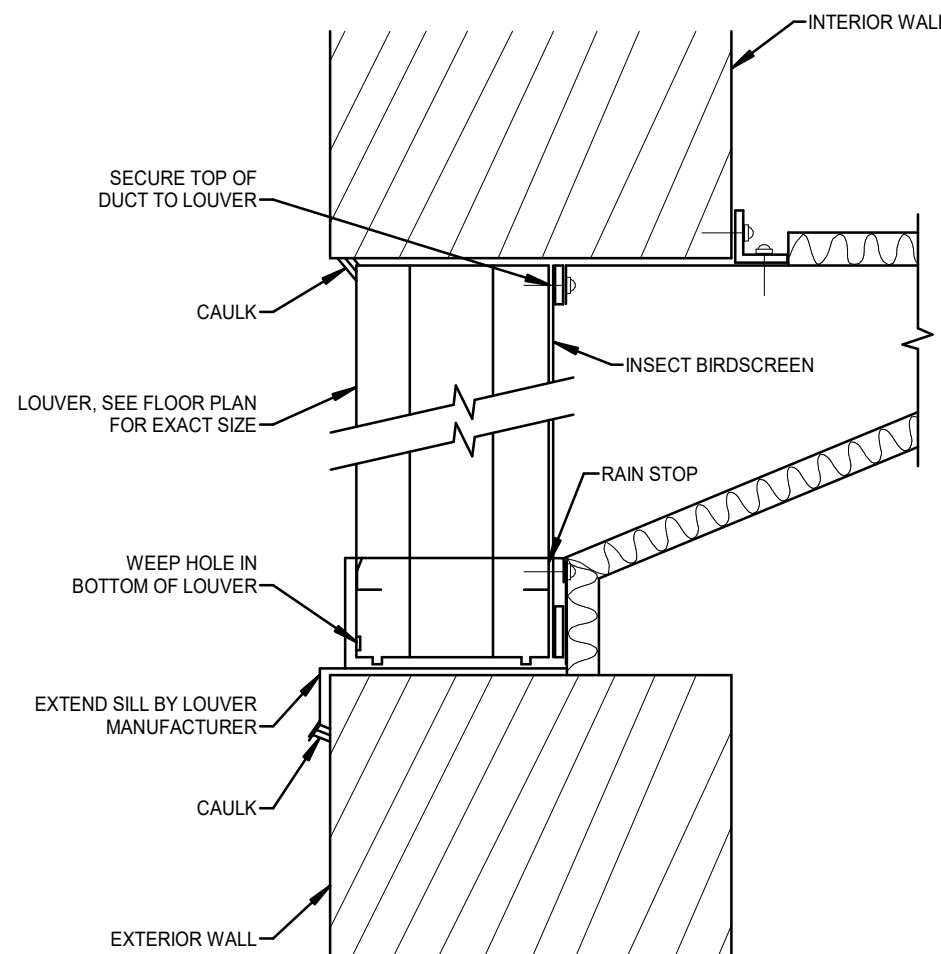
1. WALL MOUNTED PROPELLER FAN WITH WALL HOUSING, WEATHERHOOD, AND GRAVITY BACKDRAFT DAMPER, PROVIDE INSECT SCREEN AT FAN OUTLET.

2. FAN SHALL RUN 24/7.

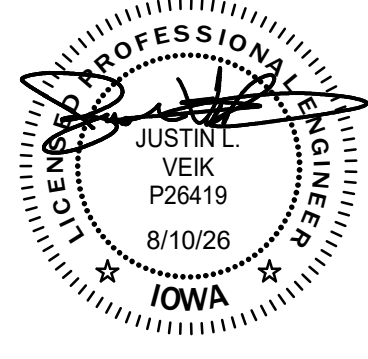
MARK	LOCATION	SERVES	TYPE	CFM	ESP (IN. W.G.)	MAX DBA	DRIVE	ELECTRICAL DATA				RPM	MOUNTING	WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
								DISCONNECT	CONTROLLER	MOTOR HP	VOLT / PH					
EF-1	GARAGE	GARAGE	PROP	2400	386	70	DIRECT	BY E.C.	MOTOR STARTER	1/3	120 / 1	1623	WALL	109	SE1-16-421-A3	ALL

LOUVER SCHEDULE

NOTES:										
1. EXTRUDED ALUMINUM CONSTRUCTION.										
2. PROVIDE ALUMINUM BIRD SCREEN.										
3. PROVIDE FULL WIDTH EXTENDED SILL.										
MARK	CFM	WIDTH	HEIGHT	EXT. SILL DIM. (in.)	FREE AREA VELOCITY (FT/MIN)	FREE AREA (SQFT)	MANUFACTURER	MODEL NUMBER	SERVES	NOTES
L-1	2400	84"	86"	0" - 6 1/4"	141	17.02	GREENHECK	EHH-401	GARAGE	ALL



1 LOUVER INSTALLATION DETAIL
SCALE: 1/8" = 1'-0"



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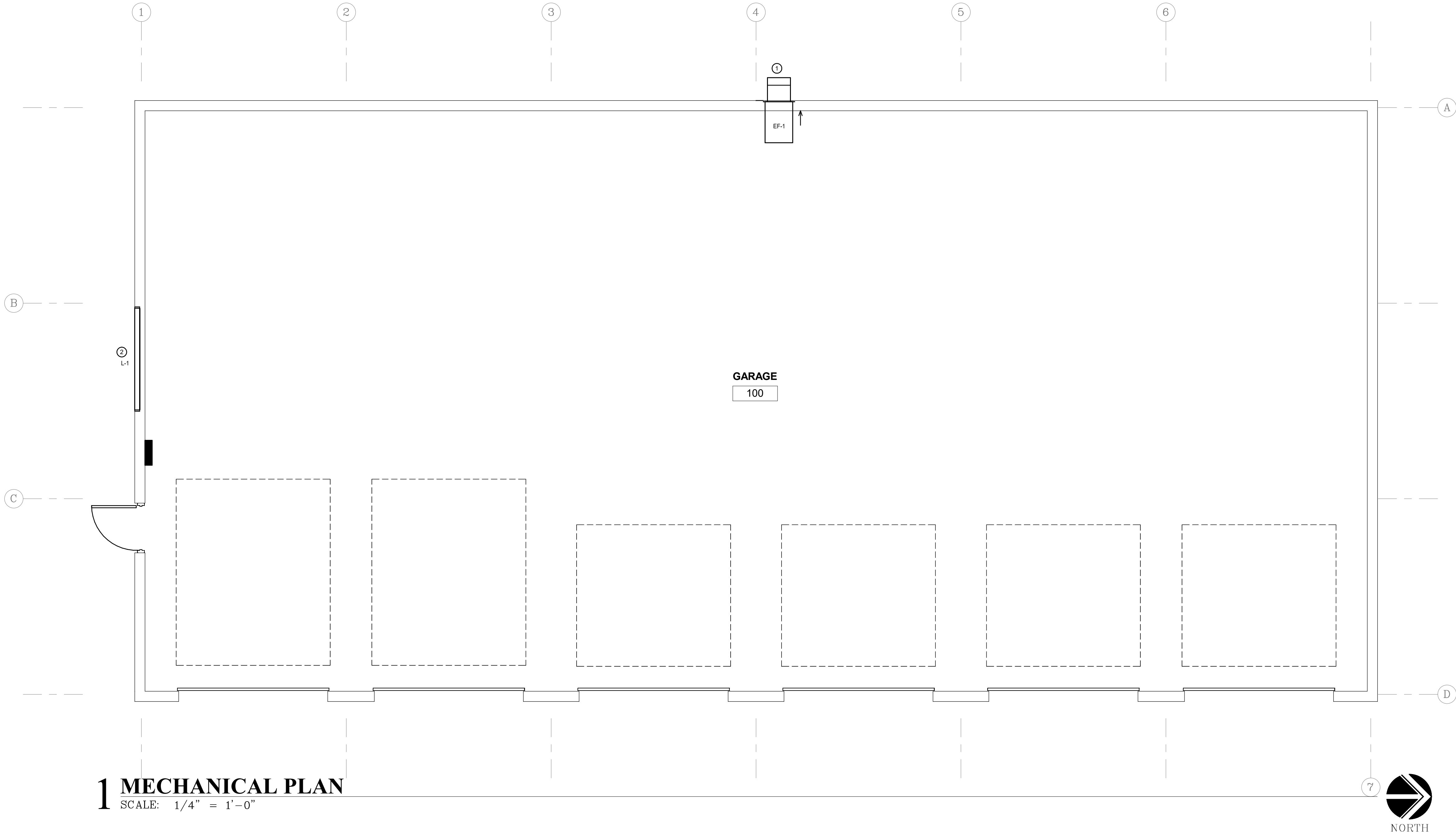
Rev#	Date
JHS	drawn
WWV	designed
WWV	approved
8-10-26	date

project HHS STS NEW GARAGE BLDG REBID #2
3211 Edgington Ave, Eldora, IA 50627

client IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES

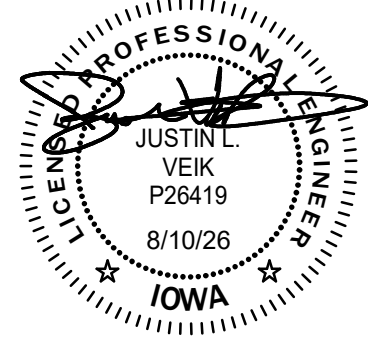
sheet MECHANICAL GENERAL INFORMATION

project no.
106025
9476.00
sheet



SHEET NOTES

- 1 MOUNT FANS AT 9'0" A.F.F. AND SPACE FAN OUTLETS AT 6" APART AS REQUIRED TO ALLOW FOR FRAMING.
- 2 MOUNT LOUVER AT 4'-0" A.F.F. REFER TO STRUCTURAL DRAWINGS FOR FRAMING DETAILS.



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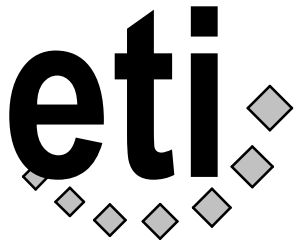
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Author	Rev#	Date
drawn		
Designer		
designed		
Approver		
approved		
8-10-26		date

project **HHS STS NEW GARAGE BLDG REBID #2**
3211 Edgington Ave, Eldora, IA 50627

client IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES

sheet **MECHANICAL PLAN**



Engineering Technologies Inc.
Mechanical & Electrical Building Solutions
1101 N. 13th St. | Omaha, NE 68102
P 402-330-2722
825 M Street, Suite 200 | Lincoln, NE 68508
P 402-476-1273 | F 402-476-1274
ETI Project No: 2025-132

project no.
106025
9476.00
sheet

M1.1

MISC. ELECTRICAL SYMBOLS

	PLAN OR DETAIL NOTE IDENTIFICATION
	DETAIL IDENTIFICATION DETAIL NUMBER SHEET NUMBER
	SURFACE MOUNTED RACEWAY, TYPE AS NOTED, WITH DEVICES AS INDICATED
	HOMERUN TO PANELBOARD, LETTER INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT
	CONDUIT CONCEALED IN WALLS OR CEILING, CROSSHATCHES INDICATE NUMBER OF CONDUCTORS EXCEPT NO CROSSHATCHES INDICATE 2 CONDUCTORS (GROUND WIRES ARE NOT SHOWN)
	CONDUIT CONCEALED BELOW FLOOR
	TELEPHONE RACEWAY
	TELEVISION RACEWAY
	FIBER OPTICS RACEWAY
	DATA SYSTEM RACEWAY
	PROVIDE HDMI CABLE IN CONDUIT
	EMERGENCY POWER AND LIGHTING CIRCUIT
	SOUND SYSTEM RACEWAY
	CONDUIT DOWN
	CONDUIT UP
	WIREMOLD SURFACE MOUNTED RACEWAY
	CONDUIT TO BE REMOVED
	EXPOSED CONDUIT
	UNDERGROUND PRIMARY ELECTRICAL
	UNDERGROUND SECONDARY ELECTRICAL
	UNDERGROUND ELECTRICAL
	OVERHEAD ELECTRICAL
	LOW VOLTAGE ELECTRICAL
	CLOCK SYSTEM RACEWAY
	CONDUIT SEAL-OFF FITTING
	EXISTING CONDUIT, VERIFY EXACT LOCATION
	UTILITY CO. POWER POLE
	GROUND CONNECTION

LIGHTING SYMBOLS

	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE, NUMBER = TYPE, LETTER = SWITCH
	HATCHING INDICATES EMERGENCY LIGHT FIXTURE, NUMBER = TYPE
	WALL MOUNTED LIGHT FIXTURE, NUMBER = TYPE
	LIGHT FIXTURE, NUMBER = TYPE
	HATCHING INDICATES EMERGENCY LIGHT FIXTURE, NUMBER = TYPE
	PENDANT MOUNTED LIGHT FIXTURE, NUMBER = TYPE
	WALL MOUNTED LINEAR LIGHT FIXTURE, NUMBER = TYPE
	LINEAR LIGHT FIXTURE, NUMBER = TYPE
	SINGLE FACED EXIT LIGHT, NUMBER = TYPE, HATCH INDICATES ILLUMINATED FACE, ARROW = CHEVRON DIRECTION
	DOUBLE FACED EXIT LIGHT, NUMBER = TYPE, HATCH INDICATES ILLUMINATED FACE, ARROW = CHEVRON DIRECTION
	EXIT LIGHT WITH TWO EMERGENCY LIGHTING HEADS, NUMBER = TYPE, HATCH INDICATES ILLUMINATED FACE, ARROW = CHEVRON DIRECTION
	EMERGENCY LIGHT WALL PACK, NUMBER = TYPE
	POLE MOUNTED LIGHT FIXTURE, NUMBER = TYPE
	LIGHTING TRACK, TRIANGLE INDICATES LIGHT FIXTURE HEAD, PROVIDE NUMBER OF HEADS AS SHOWN, NUMBER = TYPE
	CEILING FAN
	STRIP LIGHT FIXTURE, NUMBER = TYPE
	EXISTING POLE MOUNTED LIGHT FIXTURE
	DOUBLE POLE SWITCH
	KEYED SWITCH
	SWITCH WITH LIGHTED HANDLE FOR PILOT
	SWITCH MOUNTED ON WIREMOLD BOX WITH WIREMOLD TO ABOVE ACCESSIBLE CEILING
	MOMENTARY CONTACT SWITCH
	SINGLE POLE SWITCH, 3-WAY SWITCH AND 4-WAY SWITCH
	LINE VOLTAGE DIMMER SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR
	AUTOMATIC WALL SWITCH WITH OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR
	LIGHTING CONTROL TAG, LETTER INDICATES TAG IN LIGHTING CONTROL SCHEDULE
	LIGHTING CONTROL LOAD CONTROLLER, LETTER INDICATES LIGHTING CONTROLLED ZONE.
	LOW-VOLTAGE SWITCH, WHERE PRESENT, LETTER INDICATES LIGHTING CONTROL ZONE. SEE LIGHTING CONTROL SCHEDULE.
	CEILING MOUNTED PHOTOCELL
	WALL MOUNTED PHOTOCELL

POWER SYMBOLS

	DUPLIX CONVENIENCE RECEPTACLE - WP = WEATHERPROOF - GFCI = GROUND FAULT CIRCUIT INTERRUPTER - T = TAMPER RESISTANT - U = DUPLEX RECEPTACLE WITH USB PORTS - IG = ISOLATED GROUND RECEPTACLE, PROVIDE FULL SIZE GROUND WIRE EXTENDED BACK TO PANEL
	DUPLIX CONVENIENCE RECEPTACLE MOUNTED ON WIREMOLD BOX WITH WIREMOLD TO ABOVE ACCESSIBLE CEILING
	SPLIT WIRED DUPLEX RECEPTACLE
	DUPLIX CONVENIENCE RECEPTACLE MOUNTED HORIZONTAL
	4-PLEX CONVENIENCE RECEPTACLE
	CEILING MOUNTED RECEPTACLE
	SPECIAL OUTLET OR CONNECTION, SEE PLAN AND SCHEDULE
	MULTI-SERVICE AV WALL BOX
	FLUSH MOUNTED DUPLEX FLOOR OUTLET
	MULTI-SERVICE FLOOR BOX
	THERMOSTAT
	GENERATOR
	MOTOR CONNECTION, SEE PLAN AND SCHEDULE
	SOLENOID VALVE
	BELL
	PRESSURE SWITCH
	PUSH-BUTTON
	MOTOR CONTROL PUSH-BUTTON STATION
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	POWER POLE
	DRY-TYPE TRANSFORMER
	PAD-MOUNTED TRANSFORMER
	ELECTRICAL RELAY
	BUZZER OR CHIME
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH, FUSED UNLESS OTHERWISE NOTED
	VARIABLE FREQUENCY DRIVE
	HORSEPOWER RATED MANUAL MOTOR CONTROLLER WITH TOGGLE SWITCH
	MANUAL MOTOR STARTER WITH HORSEPOWER RATED TOGGLE SWITCH, PROVIDE THERMAL ELEMENT IF MOTOR IS NOT INTERNALLY PROTECTED
	HORSEPOWER RATED TOGGLE SWITCH WITH PLUG FUSE AND FUSTAT ADAPTER, SIZE AS REQUIRED FOR LOAD.
	TIME CLOCK
	DISCONNECT SWITCH - FUSED
	DISCONNECT SWITCH - NON FUSED
	SURFACE MOUNTED PANELBOARD
	RECESSED MOUNTED PANELBOARD
	DISTRIBUTION PANEL
	SWITCHBOARD

COMMUNICATION SYMBOLS

	COMMUNICATIONS OUTLET, ROUGH-IN ONLY
	COMMUNICATIONS OUTLET, # INDICATES NUMBER OF CABLES / JACKS REQUIRED OF EACH TYPE, LETTER INDICATED TYPE OF JACK - D = DATA - T = TELEPHONE - H = HDMI - TV = TELEVISION
	DATA OUTLET AT 46" ABOVE FINISHED FLOOR, COVERPLATE WITH MOUNTING LUGS
	DATA OUTLET MOUNTED ON WIREMOLD BOX WITH WIREMOLD TO ABOVE ACCESSIBLE CEILING
	WIRELESS ACCESS POINT
	FLOOR COMMUNICATIONS OUTLET
	CEILING COMMUNICATIONS OUTLET
	TELEPHONE OUTLET
	TELEPHONE OUTLET AT 46" ABOVE FINISHED FLOOR, COVERPLATE WITH MOUNTING LUGS
	TELEPHONE OUTLET MOUNTED ON WIREMOLD BOX WITH WIREMOLD TO ABOVE ACCESSIBLE CEILING

ABBREVIATIONS

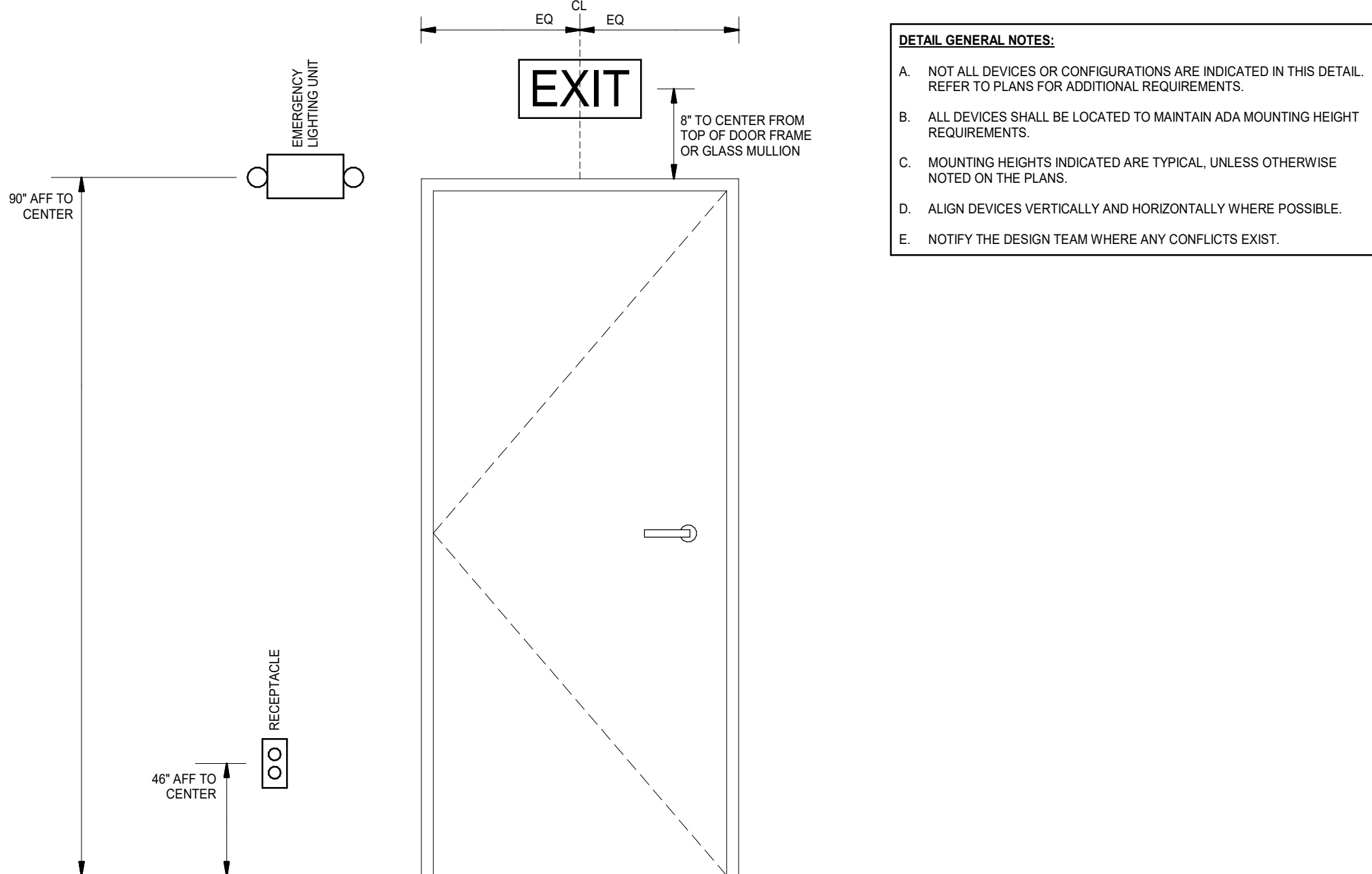
A	AMPERES
AC	4" ABOVE COUNTERTOP OR BACKSPASH TO CENTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOARD
BFG	BELOW FINISHED GRADE
C	CONDUIT
CU	COPPER
E	INDICATES EXISTING TO REMAIN
EB	INDICATES EXISTING J-BOX AND CONDUIT IN WALL TO BE REUSED
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
F OR FRAC	FRACTIONAL
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FSD	FIRE AND SMOKE DAMPER
GND	GROUND
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HPF	HIGH POWER FACTOR
HZ	HERTZ
KVA	KILOVOLT AMPERES
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT, CONNECT TO UNSWITCHED LIGHTING CIRCUIT
P	POLE
PART	PARTIAL CIRCUIT
PV	POST INDICATOR VALVE
PNL	PANELBOARD
PVC	POLY VINYL CHLORIDE NON-METALLIC RACEWAY, SCHEDULE 40 OR SCHEDULE 80
R	REMOVE EQUIPMENT, INCLUDING MOUNTING HARDWARE, AND CONDUIT AND CONDUCTORS TO SOURCE OF SUPPLY, UNLESS OTHERWISE NOTED
RL	REMOVE AND RELOCATE ITEM, EXTEND EXISTING CONDUIT AND/OR CABLING AS REQUIRED TO NEW LOCATION, UNLESS OTHERWISE NOTED. SEE PLANS FOR NEW LOCATION.
RR	REMOVE AND REPLACE WITH NEW DEVICE, REUSE BOX AND CONDUIT IN WALL AND PROVIDE NEW CONDUIT AND WIRING TO DEVICE AS REQUIRED
RMC	STEEL RIGID METAL CONDUIT
RTU	ROOF TOP UNIT
SD	SMOKE DAMPER
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SWBD	SWITCHBOARD
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WG	WIREGUARD
WP	INDICATES WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL GENERAL NOTES

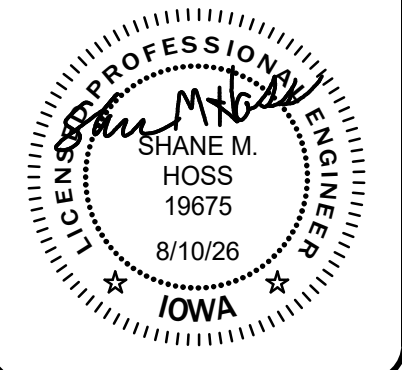
- PROVIDE TEMPORARY POWER, LIGHTING, AND HEATING AS REQUIRED FOR CONSTRUCTION. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- FIRE SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILING AND FLOORS.
- COORDINATE LOCATION OF WIRING DEVICES, TELECOM OUTLETS, FIRE ALARM DEVICES, ETC. WITH MILLWORK, TILE LAYOUT, AND OTHER WALL FINISHES PRIOR TO ROUGH-IN.
- ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES. DEVICES SHALL BE ALIGNED VERTICALLY WHEN INSTALLED AT DIFFERING HEIGHTS AND INSTALL ALL ADJACENT DEVICES AT THE SAME HEIGHT TO CENTER. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN TRADES PRIOR TO ROUGH-IN.
- CONCEAL ALL CONDUITS IN WALL, CHASES, ABOVE CEILINGS, BELOW FLOOR, OR IN ADJACENT STORAGE OR UNFINISHED SPACES. WHERE POSSIBLE, RUN EXPOSED CONDUITS VERTICALLY, WHERE POSSIBLE, TO ABOVE ACCESSIBLE CEILING, CONNECT HORIZONTALLY ABOVE CEILING.
- PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY THE NEC.

LIGHTING GENERAL NOTES

- CONNECT EXIT LIGHTS, EMERGENCY POWER SUPPLY UNITS, EMERGENCY BATTERY UNIT FIXTURES, AND NIGHTLIGHT (NL) INDICATED FIXTURES UNSWITCHED TO THE CIRCUIT INDICATED ON THE PLANS.
- LOCATE REMOTE DRIVERS, WHERE PRESENT, FOR LUMINAIRES ABOVE THE NEAREST ACCESSIBLE CEILING, UNLESS OTHERWISE NOTED.
- WHERE INDICATED, SUBSCRIPTS ON LIGHTING CONTROL DEVICES INDICATE CONTROL OF LUMINAIRES WITH CORRESPONDING SUBSCRIPTS WITHIN THE SAME ROOM.
- WHERE DIMMING IS INDICATED, PROVIDE A DEDICATED LOAD CONTROLLER FOR EACH LIGHT FIXTURE TYPE WITHIN A ZONE.
- WHERE LOW-VOLTAGE LIGHTING CONTROL WIRING IS REQUIRED BETWEEN DEVICES, IT SHALL BE PROVIDED PER MANUFACTURER'S INSTRUCTIONS. ROUTE CABLING ALONG ASSOCIATED LIGHTING CIRCUIT CONDUIT, SUPPORT USING PLASTIC TIES OR VELCRO STRAPS. 0-10V WIRING SHALL BE INSTALLED IN CONDUIT.
- MOTION SENSORS SHALL BE INSTALLED A MINIMUM OF 8FT FROM HVAC DIFFUSERS. FIELD COORDINATE.
- MOTION SENSORS ARE INDICATED SCHEMATICALLY FOR COORDINATION AND ARE A MINIMUM. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR ROOM COVERAGE. CONNECT MOTION SENSORS WITHIN A ROOM TO CONTROL ALL LIGHTS WITHIN THE SAME ROOM, UNLESS OTHERWISE NOTED.



1 TYPICAL DEVICE ALIGNMENT DETAIL
SCALE: N. T. S.



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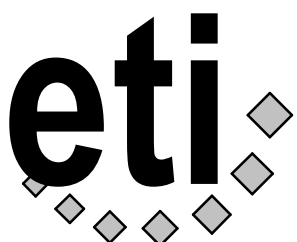
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Rev#	Date
CDE	drawn
SMH	designed
SMH	approved
8-10-26	date

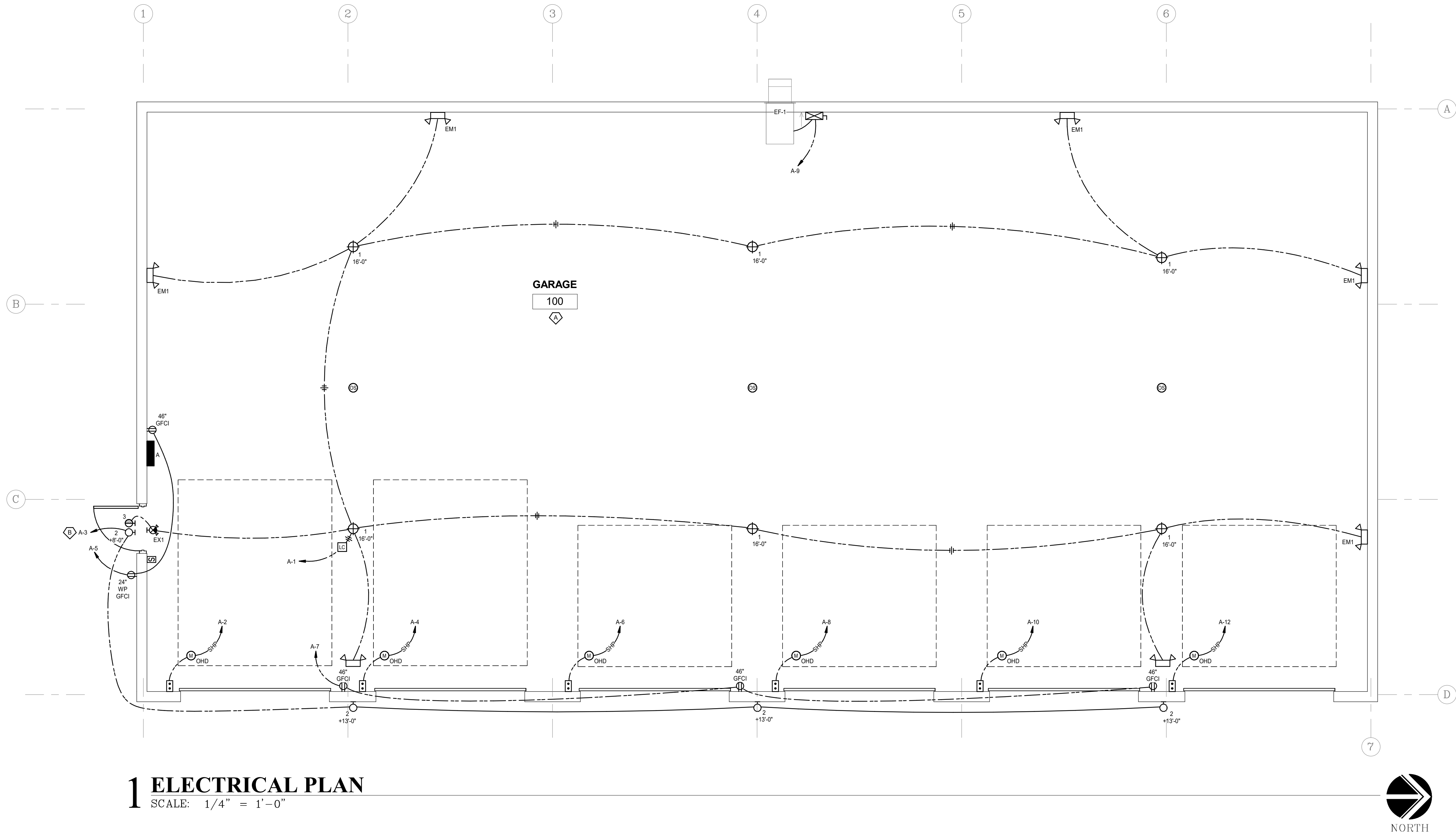
project **HHS STS NEW GARAGE BLDG-REBID #2**
3211 Edgington Ave., Eldora, IA 50627
client IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
sheet **ELECTRICAL GENERAL INFORMATION**

project no.
106025
9476.00
sheet

EG0.0



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ETI Project No: 2025-132



LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

A. MOUNTING HEIGHT IS TO BOTTOM OF LIGHT FIXTURE, UNLESS OTHERWISE NOTED.

NOTES:

1. SET COLOR TEMPERATURE TO 4000K AS INDICATED.

MARK	DESCRIPTION	LAMP	COLOR TEMP	LUMENS	WATTS	MOUNTING	MANUFACTURER	CATALOG NUMBER	ACCEPTABLE MANUFACTURERS	NOTES
1	LED ROUND HIGH BAY, POLYCARBONATE LENS	LED	4000K	12000	83	SUSPENDED	LITHONIA	CPBR-AL013-UVOLT-SWWB-80CRI-DWH	METALUX, COLUMBIA	1
2	SMALL RECTANGULAR, DIE-CAST ALUMINUM, EXTERIOR LED WALL PACK, IP66 RATED DARK BRONZE FINISH, INTEGRAL PHOTOCELL	LED	3000K	1650	13	WALL	LITHONIA	WPX0-LED-AL0-SWW2-MVOLT-PE-DDBXD-M2	METALUX, COLUMBIA	-
3	THERMOPLASTIC REMOTE HEAD	LED	-	-	-	SURFACE	LITHONIA	ELA-SD-Q-0309-M12	SURE-LITES, DUAL-LITE	-
EM1	THERMOPLASTIC SELF-CONTAINED EMERGENCY LIGHT, DUAL LED HEADS, NICKEL CADMIUM BATTERY	LED	-	-	-	SURFACE	LITHONIA	ELM4L	SURE-LITES, DUAL-LITE	-
EX1	THERMOPLASTIC SELF-CONTAINED EMERGENCY LIGHT, DUAL LED HEADS, NICKEL CADMIUM BATTERY, REMOTE HEAD CAPABLE	LED	-	-	-	SURFACE	LITHONIA	LHQM-W-RG-MVOLT-M6	SURE-LITES, DUAL-LITE	-

LIGHTING CONTROL SCHEDULE

GENERAL NOTES:

A. WHERE A LOW VOLTAGE SWITCH IS INDICATED ON THE PLANS WITH NO SUBSCRIPT, PROVIDE A 2-BUTTON ON/OFF SWITCH TO CONTROL ALL LIGHTING IN A SPACE. WHERE SUBSCRIPTS ARE INDICATED ON A LOW VOLTAGE SWITCH, PROVIDE SEPARATE ON/OFF BUTTONS FOR EACH SUBSCRIPT (LIGHTING ZONE).

B. WHERE DIMMING AND LOCAL ON/OFF IS INDICATED FOR A SPACE, PROVIDE LOW VOLTAGE SWITCH WITH SEPARATE RAISE AND LOWER BUTTONS FOR EACH ZONE INDICATED ON THE LOW VOLTAGE SWITCH.

C. WHERE DIMMING IS INDICATED, PROVIDE DIMMING LOAD CONTROLLERS COMPATIBLE WITH LIGHT FIXTURES BEING PROVIDED. PROVIDE A DIMMING LOAD CONTROLLER FOR EACH LIGHT FIXTURE TYPE WITHIN A COMMON DIMMING ZONE.

D. REFER TO THE LIGHTING CONTROLS SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

NOTES:

1. LIGHTING CONTROLS INTEGRAL TO LIGHT FIXTURE, SEE LIGHT FIXTURE SCHEDULE.

MARK	MOTION SENSOR SETTINGS				LOCAL ON/OFF	DIMMING	TIME CLOCK	PHOTOCELL	DAYLIGHT HARVESTING (FOOTCANDLES)	BUILDING NETWORKED LIGHTING CONTROL SYSTEM	EXAMPLE SPACE TYPE	NOTES
	MANUAL ON	AUTO ON (%)	TIME TO OFF (MIN)									
A	X	-	20	X	-	-	-	-	-	-	GARAGE	
B	-	-	-	-	-	-	-	X	-	-	EXTERIOR BUILDING LIGHTS	

EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:

A. ALL LOW VOLTAGE HVAC CONTROL WIRING SHALL BE BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.

B. ALL EXHAUST FANS ARE FURNISHED WITH AN INTEGRAL DISCONNECTING MEANS, UNLESS NOTED OTHERWISE.

MARK	DESCRIPTION	ELECTRICAL			CONDUCTORS		GND SIZE	CONDUIT NO.	CONDUIT SIZE	SAFETY SWITCH	CONTROLLER	CONNECTION	REMARKS
		KW	HP	VOLTS	PHASE	NO.	SIZE						
EF-1	EXHAUST FAN	-	1/3	120	1	2	#12	#12	1	0.75"	INTEGRAL TO CONTROLLER	NEMA 0 COMBO STARTER GENERAL DUTY	INTERLOCK WITH THE GAS DETECTION SYSTEM, PER MANUFACTURERS INSTRUCTIONS.
OHD	OVERHEAD DOOR	-	F	120	1	2	#12	#12	1	0.75"	SHP	-	-

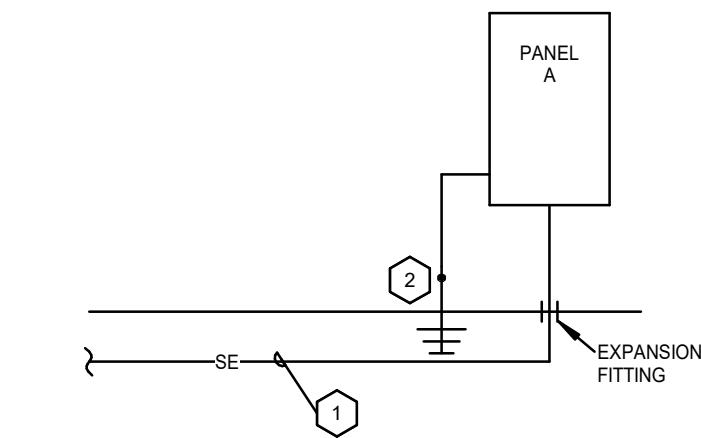
PANEL SCHEDULE

PANEL A	VOLTAGE		PHASE		4 WIRE, SOLID NEUTRAL				22 KAIC RMS		100 A		MAIN BREAKER	
	120 / 208V		3Ø										SURFACE MOUNTED	
LOAD DESCRIPTION	LOAD				BREAKER				LOAD				LOAD DESCRIPTION	
	VA	TYPE	POLES	AMPS	TYPE	NO.	PHASE	NO.	TYPE	AMPS	POLES	TYPE		VA
INT. LIGHTING	500	L	1	20	-	1	A	2	-	20	1	X	800	OVERHEAD DOOR
EXT. LIGHTING	100	L	1	20	-	3	B	4	-	20	1	X	800	OVERHEAD DOOR
RECEIPT	500	R	1	20	-	5	C	6	-	20	1	X	800	OVERHEAD DOOR
RECEIPT	500	R	1	20	-	7	A	8	-	20	1	X	800	OVERHEAD DOOR
EF-1	1,550	M	1	25	-	9	B	10	-	20	1	X	800	OVERHEAD DOOR
SPARE	1,000	S	1	20	-	11	C	12	-	20	1	X	800	OVERHEAD DOOR
SPARE	1,000	S	1	20	-	13	A	14	-	20	1	S	1,000	SPARE
SPARE	1,000	S	1	20	-	15	B	16	-	20	1	S	1,000	SPARE
SPARE	1,000	S	1	20	-	17	C	18	-	20	1	S	1,000	SPARE
SPARE	1,000	S	1	20	-	19	A	20	-	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	-	21	B	22	-	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	-	23	C	24	-	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	-	25	A	26	-	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	-	27	B	28	-	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	-	29	C	30	-	20	1	-	-	SPACE ONLY

LOAD INFORMATION

A = AFCI, G = GFCI, A/G = AFCI/GFCI, ST = SHUNT TRIP, LN = LOCK-ON, LF = LOCK-OFF

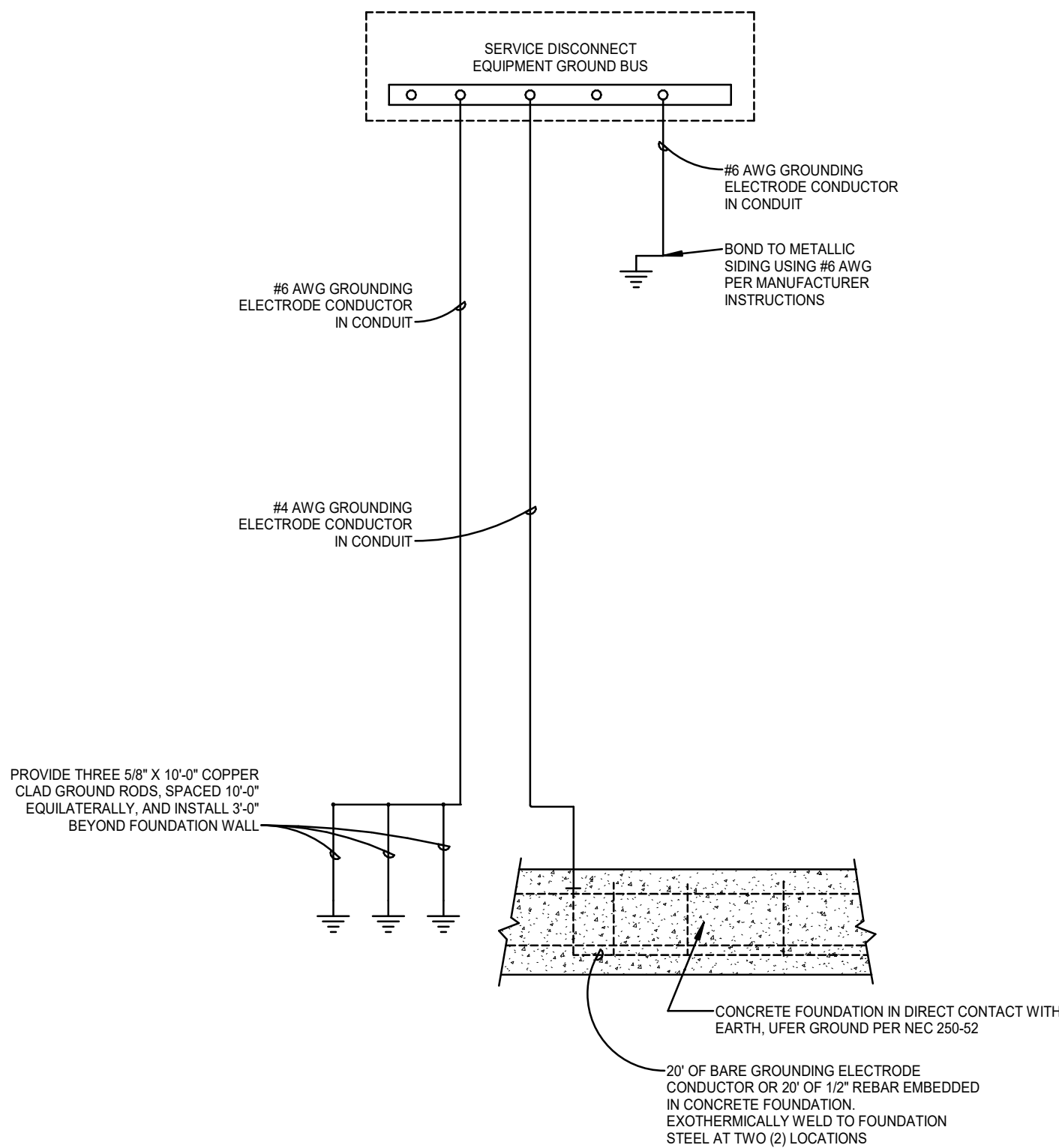
TOTAL CONNECTED LOAD	KVA	AMPS
	16	45
EST. MAX DEMAND	12	35



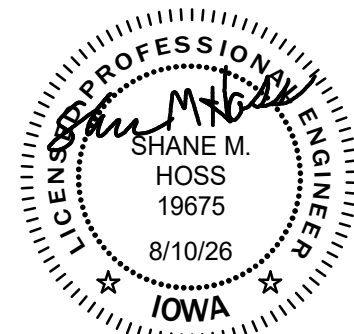
1 RISER DIAGRAM
SCALE: N.T.S.

SHEET NOTES

- SECONDARY ELECTRICAL SERVICE, PROVIDE 4-#1 AL IN 1.50" CONDUIT. CONTRACTOR TO MAKE ALL CONNECTIONS TO EXISTING PAD MOUNTED TRANSFORMER, COORDINATE WORK WITH THE OWNERS UTILITY DEPARTMENT.
- PROVIDE SERVICE GROUND, SEE DETAIL 2, THIS SHEET.



2 SERVICE GROUND BUS DETAIL
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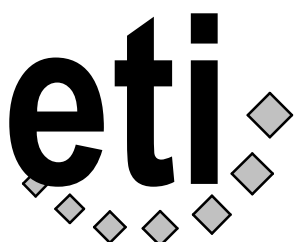
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SMH designed _____
SMH approved _____
8-10-26 date

project **HHS STS NEW GARAGE BLDG**
3211 Edginton Ave, Eldora, IA 50627
client **IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES**
sheet **ELECTRICAL SCHEDULES AND RISERS**

project no.
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E2.1



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