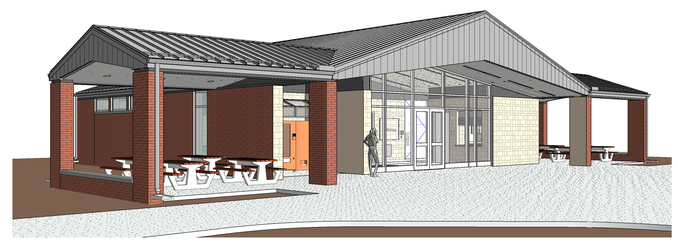
PROJECT NO.	SHEET NO.
NH-80-1(169)	1
◣ .CONTROL NO. 51276A	
▲ .CONTROL NO.	
■ .CONTROL NO.	

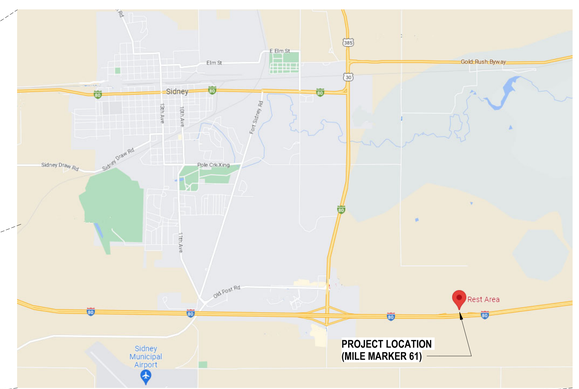
STATE OF NEBRASKA
DEPARTMENT OF TRANSPORTATION
PLANS FOR CONSTRUCTION
SIDNEY WB REST AREA BUILDINGS
CHEYENNE COUNTY

Preliminary

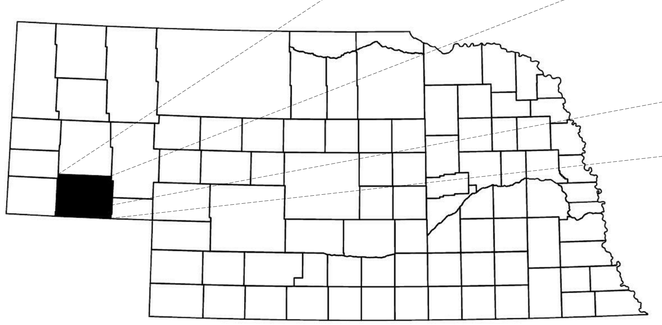
ENGINEER (NDOT COORDINATING PROFESSIONAL) | CIVIL ENGINEER | ARCHITECT (COORDINATING PROFESSIONAL) | LANDSCAPE ARCHITECT | CIVIL ENGINEER (STRUCTURAL) | MECHANICAL ENGINEER | ELECTRICAL ENGINEER

SHEET HISTORY:
ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS





VICINITY MAP
SCALE: NOT TO SCALE



WORK ON THIS PROJECT IS AUTHORIZED PURSUANT TO THE CONDITIONS STIPULATED IN THE ARMY CORPS OF ENGINEERS GENERAL / NATIONWIDE / INDIVIDUAL PERMIT

THE 2017 EDITION OF THE NEBRASKA STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS APPLY TO THIS PROJECT.

SCHEDULE OF QUANTITIES

ITEM	QUANTITY	UNITS
REST AREA	1.000	LUMP SUM

THE WORK ON THIS PROJECT CONSISTS OF GROUPS
8A - BUILDING

◣ GROUPS 8A IN THE LETTING OF _____ ARE INCLUDED
▲ GROUPS _____ IN THE LETTING OF _____ ARE INCLUDED
■ GROUPS _____ IN THE LETTING OF _____ ARE INCLUDED

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.:
Control No.: 51276A

May 15, 2023

Preliminary

Title Sheet & Drawing Index

G0.00

Plot Time Stamp: 1/8/2024 9:06:58 AM
File Location/Name: C:\(1) Revit Projects\2023\508020-SRSWB-A22_tim-rogers.rvt

MATERIAL SYMBOLS

EARTHWORKS

EARTH
NON COMPACTED

EARTH/COMPACT
FILL

GRAVEL/POROUS
FILL

CONCRETE

CONCRETE

PRECAST CONCRETE

SAND/MORTAR/
PLASTER

MASONRY

CONCRETE
BLOCK

COMMON/FACE
BRICK

FIRE BRICK

STRUCTURAL
FACING TILE

STONE

BLUESTONE/SLATE/
SOAPSTONE/FLAGGING

RUBBLE

LIMESTONE

METAL

ALUMINUM

BRASS/BRONZE

STEEL

WOOD

FINISH

ROUGH

SHIM

PLYWOOD

GLASS

GLASS

STRUCTURAL

GLASS BLOCK

INSULATION

BATT/LOOSE
FILL

RIGID

SPRAY/FOAM

FINISHES

ACOUSTICAL
TILE

CARPET AND
PAD

CERAMIC TILE

GYPSUM
WALLBOARD

TECTUM

PARTITION INDICATIONS

CAST-IN-PLACE CONCRETE

CONCRETE MASONRY

WOOD STUD

METAL STUD

SPECIAL
FINISH FACE

ELEVATION INDICATIONS

BRICK

CERAMIC TILE

CONCRETE/PLASTER

CONCRETE MASONRY UNIT

GLASS

SHEET METAL

SHINGLES/SIDING

REFERENCE SYMBOLS

1 SIM / A101	DETAIL OR SECTION NUMBER SHEET ON WHICH IT IS FOUND
1 VIEW NAME SCALE: 1/8" = 1'-0"	DETAIL REFERENCE NUMBER
1 SIM / A101	SECTION REFERENCE
1 SIM / A101	DETAIL REFERENCE
A101 1 / A101 1 SIM	ELEVATION REFERENCE
1 SIM / A101	CROSS SECTION REFERENCE
SIM 1/ A101	DETAIL SECTION REFERENCE
CLASSROOM 101	ROOM IDENTIFIER
101	DOOR/OPENING IDENTIFIER
1t	WINDOW/OPENING IDENTIFIER
0	GRID LINE
FIN. FLR. 100'-0"	ELEVATION REFERENCE
1)	WALL TYPE REFERENCE
	KEY NOTE
	MATCH LINE
	DEMOLITION INDICATOR
1 / A101	REVISION TAG & CLOUD INDICATOR

REVISION TAG INFORMATION:

TOP indicates the instrument type.
- A = Addendum
- B = Bid Package
- D = Construction Change Directive or Change Directive
- F = Field Order
- G = Guaranteed Maximum Price
- I = Architects Supplemental Instructions or Architects Supplemental Information
- L = Limited Permit
- P = Proposal Request, Proposal Request Order or Change Proposal Request
- R = Request For Information

BOTTOM indicates consecutive number assigned to instrument type.

GENERAL NOTES

1. ALL DISCIPLINES SHALL BE RESPONSIBLE FOR THEIR SCOPE OF WORK. THIS WORK IS TO BE SCHEDULED AND COMPLETED WITH THE GENERAL CONTRACTOR'S FULL KNOWLEDGE.
2. ALL DIMENSIONS LOCATING PLUMBING FIXTURES ARE FROM FINISH MATERIAL NOT FROM GPDW SHEATHING.
3. FINAL CLEANING - REMOVE OR REPAIR DAMAGED OR SOILED SPOTS ON NEWLY PAINTED WALLS AND ON ALL NEWLY INSTALLED WORK. REMOVE DUST AND DEBRIS FROM ALL NEW WORK.

STANDARD ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABBR	ABBREVIATE
ABV	ABOVE
AC	AIR CONDITIONING
ACID RES	ACID-RESISTANT
ACOUS	ACOUSTICAL
ACOUS INSUL	ACOUSTICAL INSULATION
ACOUS PNL	ACOUSTICAL PANEL
ACOUS PLAS	ACOUSTICAL PLASTER
ACOUS TILE	ACOUSTICAL TILE
ACT	ACTUAL
AD	AREA DRAIN
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE
ADJC	ADJACENT
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALD	ALUMINUM DOOR
ALM	ALARM
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
AMPL	AMPLIFIER
AMT	AMOUNT
ANN	ANNUNCIATOR
ANOD	ANODIZED
ANT	ANTENNA
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPX	APPENDIX
ARCHL	ARCHITECT (URAL)
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
ASYM	ASYMMETRICAL
AV	AUDIO VISUAL
AVE	AVENUE
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
B&B	BALLED AND BURLAPPED
BAF	BAFFLE
BAL	BALANCE
BB	BULLETIN BOARD
BC	BOTTOM OF CURB
BD	BOARD
BEV	BEVEL
BF	BOTH FACES
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BITUM	BITUMINOUS
BJT	BED JOINT
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLST	BALLAST
BM	BEAM
BO	BOTTOM OF
BOC	BACK OF CURB
BOW	BOTTOM OF WALL
BP	BASE PLATE
BRCG	BRACING
BRDG JST	BRIDGING JOIST
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BRS	BRASS
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTM	BOTTOM
BUR	BUILT-UP ROOF
BW	BOTH WAYS
C/C	CENTER TO CENTER
C&G	CURB AND GUTTER
CAB	CABINET
CAV	CAVITY
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CER TILE	CERAMIC TILE
CFLG	COUNTER FLASHING
CG	CORNER GUARD
CH BD	CHALKBOARD
CHAN	CHANNEL
CHFR	CHAMFER
CHK	CHECK
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG DIFF	CEILING DIFFUSER
CLG HT	CEILING HEIGHT
CLL	CONTRACT LIMIT LINE
CLOS	CLOSET
CLR	CLEAR
CLSR	CLOSURE
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
COMM	COMMERCIAL
COMPL	COMPLETE
CONC	CONCRETE
CONC FL	CONCRETE FLOOR
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
COV PL	COVER PLATE
CPRS	COMPRESSIBLE
CPT	CARPET
CRCMF	CIRCUMFERENCE
CRS	COLD ROLLED STEEL
CSG	CASING
CSK	COUNTERSUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTV	CABLE TELEVISION
CUB	CUBICLE
CUR	CURRENT
CW	COLD WATER
DBL GLZ	DOUBLE GLAZING
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DF	DRAPERY FABRIC
DFR	DOOR FRAME
DH	DOUBLE HUNG
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVIDER
DIW	DEIONIZED WATER
DJ	DOUBLE JOIST
DL	DEAD LOAD
DL	DRAPERY LINER
DMPF	DAMPPROOFING
DN	DOWN
DO	DITTO
DR	DOOR
DR	DRAIN
DRCLSR	DOOR CLOSURE
DS	DOWNSPOUT
DST	DOOR STOP
DT	DRAIN TILE
DUPL	DUPLICATE
DVTL	DOVETAIL
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWTR	DUMBWAITER
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EO	ELECTRICAL OUTLET
EP	ELECTRICAL PANEL
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY FLOOR
EQL SP	EQUALLY SPACED
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERECT	ERECTION
ESCAL	ESCALATOR
ESMT	EASEMENT
EST	ESTIMATE
EW	EACH WAY
EXC	EXCAVATE
EXG	EXISTING
EXH HD	EXHAUST HOOD
EXH FN	EXHAUST FAN
EXP	EXPANSION
EXSP	EXPOSED
EXST	EXISTING
EXST GR	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
F BRK	FIRE BRICK
F/F	FACE TO FACE
FBD	FIBERBOARD
FC	FIRE COATED
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISH FLOOR ELEVATION
FG	FIBERGLASS
FIN GR	FINISH GRADE
FIN FL	FINISH FLOOR
FIN	FINISH
FL	FLASHING
FL	FLOWLINE
FLDG	FOLDING
FLG	FLANGE
FLR	FLOOR
FLR SK	FLOOR SINK
FLR PL	FLOOR PLATE
FLR FIN	FLOOR FINISH
FLT GL	FLOAT GLASS
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPL	FIREPLACE
FPRF	FIREPROOFING
FRM	FRAME
FRNT	FRONT
FS	FAR SIDE
FS	FLAT SCREEN
FS	FULL SIZE
FSP	FIRE STANDPIPE
FSTNR	FASTENER
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FXTR	FIXTURE
GALV	GALVANIZED
GB	GRAB BAR
GDRL	GUARD RAIL
GENL	GENERAL
GENL CONTR	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GL	GLASS
GL BLK	GLASS BLOCK
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GND	GROUND
GPDW	GYPSUM DRY WALL
GR BM	GRADE BEAM
GR	GRADE
GRTG	GRATING
GUT	GUTTER
GYP	GYPSUM
GYP PLAS	GYPSUM PLASTER
H	HIGH
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HC	HANDICAP
HC	HOLLOW CORE
HCMU	HOLLOW CONCRETE MASONRY UNIT
HD	HEAVY DUTY
HDJT	HEAD JOINT
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HGT	HEIGHT
HLB	HORIZONTAL LOUVER BLINDS
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HNDRL	HAND RAIL
HO	HOLD-OPEN
HORIZ	HORIZONTAL
HR	HOUR
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HTG	HEATING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCAND	INCANDESCENT
INL	INLET
INSTL	INSTALLATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
KB	KNEE BRACE
KO	KNOCKOUT
KOP	KNOCKOUT PANEL
KPL	KICK PLATE
KWY	KEYWAY
L	LEFT
LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LBR	LUMBER
LCMU	LIGHTWEIGHT CONCRETE MASONRY UNIT
LD BRG	LOAD BEARING
LDG	LANDING
LF	LINEAR FOOT
LG	LENGTH
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LIN	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LKR RM	LOCKER ROOM
LL	LIVE LOAD
LNTL	LINTEL
LOC	LOCATION
LONG	LONGITUDINAL
LRG	LARGE
LS	JUMP SUM
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LVL	LEVEL
LVR	LOUVER
LW PLAS	LIGHTWEIGHT PLASTER
LWC	LIGHTWEIGHT CONCRETE
M	METER
MAINT	MAINTENANCE
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBR	MEMBER
MC	METAL CLAD
MC	MOMENT CONNECTION
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLOAD
ME	MATCH EXISTING
ME	MISCELLANEOUS EQUIPMENT
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIL	MILLIMETER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
ML	MATCH LINE
ML	METAL LATH
MLC	METAL LABORATORY CASEWORK
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODULE
MTD	MOUNTED
MTG	MEETING
MTL	METAL
MTR	MORTAR
MULL	MULLION
MULT	MULTIPLE
MVBL	MOVABLE
N	NORTH
N/A	NOT APPLICABLE
NEG	NEGATIVE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED/CONTRACTOR INSTALL
OFF	OFFICE
OFOI	OWNER FURNISHED-OWNER INSTALLED
OHD	OVERHEAD DOOR
OPER	OPERABLE
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORIG	ORIGINAL
OTA	OPEN TO ABOVE
OTF-A	OPEN TO FLOOR ABOVE
OTS	OPEN TO STRUCTURE
OVHD	OVERHEAD
OXY	OXYGEN
OZ	OUNCE
PAC	PRECAST
PAR	PARALLEL
PARKG	PARKING
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PORTLAND CEMENT
PCP	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PANEL FABRIC
PFP	PRE-FINISHED PANEL
PGBD	PEGBOARD
PH	PHASE
PL	PLATE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLYWD	PLYWOOD
POL	POLISHED
POLY	POLYSTYRENE
POLYISO	POLYISOCYANURATE
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PRKG	PARKING
PROJ	PROJECT
PS	PROJECTION SCREEN
PT	PAINT
PCT	PORCELAIN TILE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QTY	QUANTITY
QUAL	QUALITY
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECPT	RECEPTACLE
RECT	RECTANGULAR
REF	REFERENCE
REINF	REINFORCEMENT
REM	REMOVABLE
REQD	REQUIRED
RESIL	RESILIENT
RFM	RECESSED FLOOR MAT
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RND	ROUND
RO	ROUGH OPENING
RST	RUBBER STAIR TREAD
RT	RUBBER TILE
RV	ROOF VENT
RVS	REVERSE
S	SOUTH
S	SEATING
SALV	SALVAGE
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SCMU	SOLID CONCRETE MASONRY UNIT
SCRN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SF	SYSTEMS FURNITURE
SGL	SINGLE
SHR	SHOWER
SHTHG	SHEATHING
SHVL	SHELVES
SIM	SIMILAR
SJ	SLIP JOINT
SK	SINK
SLA	SLATE
SLP	SLOPE
SLS	SUB-FLOOR LEVELING SYSTEM
SLV	SLEEVE
SM	SHEET METAL
SMLS	SEAMLESS
SP	SPACING
SPCL	SPECIAL
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SPRT	SUPPORT
SQFT	SQUARE FOOT
SQ	SQUARE
SQIN	SQUARE INCH
SQYD	SQUARE YARD
SSK	SERVICE SINK
SS	STAINLESS STEEL
SSM	SOLID SURFACING MATERIAL
ST	STAIN
ST	STREET
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIR	STIRRUP
STL JST	STEEL JOIST
STL PL	STEEL PLATE
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
STRUCT STL	STRUCTURAL STEEL
SUPPL	SUPPLEMENT
SURF	SURFACE
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVB	SHEET VINYL BASE
SVF	SHEET VINYL FLOOR
SYM	SYMBOL
SYMM	SYMMETRICAL
SYST	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T	TABLE
TB	TACKBOARD
TB-xx	TEST BORING-xx(0 TB-1)
TC	TOP OF CURB
TD	TRENCH DRAIN
TE	TRANSITION EDGE
TECH	TECHNICAL
TEMP	TEMPORARY
TER	TERRAZZO
THK	THICK
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TLT	TOILET
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TNL	TUNNEL
TO	TOP OF
TOF	TOP OF FLANGE
TOFF	TOP OF FINISH FLOOR
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TRNBKL	TURNBUCKLE
TS	TENSILE STRENGTH
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UDR	UNDER
UDRLMNT	UNDERLAYMENT
UF	UPHOLSTERED FABRIC
UFD	UNDER FLOOR DUCT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
ULT	ULTIMATE
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
V	VOLT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VIB	VIBRATION
VNR	VENEER
VOL	VOLUME
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W/	WITH
W/W	WALL TO WALL
W/O	WITHOUT
W	WEST
WC	WATER CLOSET
WC	WALL COVERING
WCPT	WALL CARPET
WD	WOOD
WDD	WOOD DOOR
WDW	WINDOW
WF	WIDE FLANGE
WF	WOOD FLOORING
WGL	WIRE GLASS
WH	WALL HUNG
WH	WATER HEATER
WHSE	WAREHOUSE
WL	WIND LOAD
WLD	WELDED
WR	WATER RESISTANT
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WTRPRF	WATERPROOFING
WWM	WELDED WIRE MESH
X SECT	CROSS SECTION

SHEET HISTORY:

ISSUED	05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
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May 15, 2023

Preliminary

General Notes, Symbols & Abbreviations

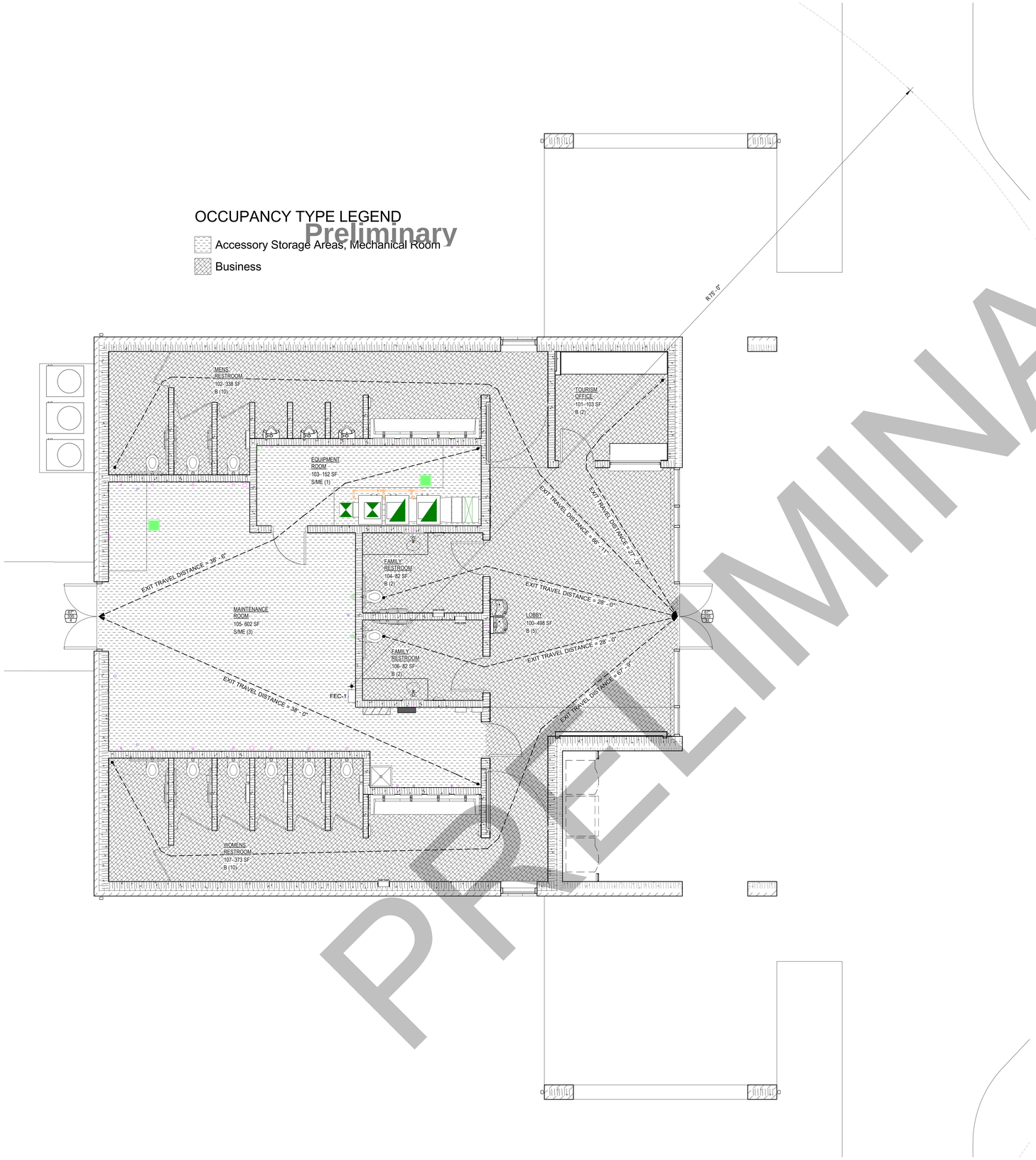
G0.01

Plot Time Stamp: 5/16/2023 11:57:52 AM
File Location/Name: C:\(1) Revit Projects\2022\508020-SRSWB-A22_vaughn.kelso@clarkenersen.com.rvt

OCCUPANCY TYPE LEGEND

Preliminary

- Accessory Storage Areas, Mechanical Room
- Business



1 **FIRST FLOOR CODE COMPLIANCE PLAN**

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

CODE SYMBOL LEGEND

SYMBOL	DESCRIPTION	PROTECTION ELEMENTS
	CLEAR WIDTH MAX EGRESS LOAD ASSUMED EGRESS LOAD	
55	EXIT - INTERIOR (assembly occ. over 50 and exits from floors.)	
	FIRE EXTINGUISHER	SEE NOTE BELOW
	FIRE DEPARTMENT CONNECTION (FDC)	
	FIRE EXTINGUISHER SPACING (radius)	
	SMOKE BARRIER	1-hour resistive rated walls. 20-minute door assembly. Smoke dampers.
	1 HOUR FIRE BARRIER (occupancy & incidental use)	1-hour fire barrier wall construction. 1-hour rated door assembly for shaft, exit enclosure, & exit passageway wall. 45-min rated door assembly in other fire barriers. Fire dampers.
	FIRE PARTITION (dwelling / unit separations I-1 & R occupancies)	1-hour resistive rated walls. 45-minute rated door assembly. Fire dampers.
CONF. / A3 50	ROOM DESIGNATION	Room type / Occupancy type Maximum Allowable Occupants
40 90 50	Accumulated occupant loads for complex exit paths.	

FEC NOTE:
FIRE EXTINGUISHER CABINET IS NOTED AS FEC-1. BASIS OF DESIGN IS JL INDUSTRIES AMBASSADOR SERIES SURFACE MOUNTED FIRE EXTINGUISHER CABINET MOD. 1013 OR EQUIVALENT AND IS TO BE PROVIDED WITH JL INDUSTRIES COSMIC 10-E GENERAL PURPOSE FIRE EXTINGUISHER OR EQIVALENT.

GENERAL INFORMATION

LOCATION: Ogallala, Nebraska
Interstate 80 West Bound
Rest Areas
Mile Marker - 132

AGENCY INFORMATION: Nebraska Department of Transportation

REASON FOR SUBMITTAL: New Building

AUTHORITY HAVING JURISDICTION:
State of Nebraska, DAS

PROJECT DESCRIPTION
A new interstate highway rest area with information lobby, staff office, rest rooms, and ancillary mainteance area for storage of lawnmowers and snow removal equipment.

APPLICABLE CODES

2018 - International Building Code (IBC)
2018 - International Plumbing Code (IPC)
2018 - International Mechanical Code (IMC)
2018 - International Fire Code (IFC)
2020 - National Electric Code (NEC)
Americans With Disabilities Act Accessibility Guidelines (ADAAG)
American National Standards Institute (ANSI) 117.1 Guidelines for Accessible & Useable Buildings & Facilities
2010 - NFPA 110 - Standard for Emergency and Standby Power Systems
2009 - NFPA 90A - Installation of Air Conditioning and Ventilating Systems
2010 - NFPA 72 - National Fire Alarm Code
2009 - NFPA 54 - National Fuel Gas Code
2007 ASHREA 90.1

OCCUPANCY/ STRUCTURAL CLASSIFICATION
One story building with concrete, masonry and wood structure. Exterior walls will be masonry up to 110'-0" and metal panel with wood stud backup walls above 110'-0". Interior walls will be non load bearing cmu up to 110'-0" and wood stud and gypsum board above 110-0". Floors will be slab on grade concrete. Roof structure will be wood truss.

ACTIVE LIFE SAFETY SYSTEMS:

Fire Alarm:	Required/Provided: Not Required / Not Provided Per IBC 907.2.2
Smoke Detection:	Required/Provided: Not Required / Not Provided Per IBC 907.2.2
Exit Signs:	Required/Provided: Required / Battery Back-up Provided
Emergency Lighting:	Required/Provided: Required / Battery Back-up Provided
Suppression-Automatic:	Required/Provided: Not Required / Not Provided Per IBC 903.2 & 903.2.9
Fire Extinguishers:	Required/Provided: In Maintenance Area Only Per NFPA 10

PASSIVE LIFE SAFETY SYSTEMS:

Corridor ratings:	None.
Stairwells:	None.
Shafts:	None.
Occupancy Separations:	None
Fire Separations:	None.

CODE ITEM			
OCCUPANCY CLASSIFICATION:	MIXED USE NON-SEPARATED B	**TOTAL BUILDING SQUARE FOOTAGE:**	
		LOWER LEVEL	NA
CONSTRUCTION TYPE:	TYPE VB	FIRST FLOOR	2,300 SF
		SECOND FLOOR	NA
INCIDENTAL USE SEPARATIONS:	NA	PENTHOUSE	NA
BUILDING HEIGHT: (2018 IBC TABLE 504.4)		TOTAL	2,300 SF
ALLOWABLE	2 (40')	ROOF AREA	4,900 SF
ACTUAL	1 (20')		
		EXIT ACCESS TRAVEL DISTANCE:	(IBC 2018 TABLE 1017.2)
RATIO OF PENTHOUSE AREA TO ROOF AREA	NA	"B" OCCUPANCY	200 feet
		"S" OCCUPANCY	200 feet
BLDG. SQ. FT. : (2018 IBC TABLE 506.2)		**COMMON PATH OF EGRESS TRAVEL**	(IBC 2018 TABLE 1006.2.1)
ALLOWABLE PER FLOOR	9,500 sf	"B" OCCUPANCY	75 feet
MODIFIED PER SECTION 506	NA	"S" OCCUPANCY	75 feet
ACTUAL	2,300 sf		
		MAXIMUM DEAD-END CORRIDOR	(IBC 2018 1020.4)
FIRE RESISTIVE REQUIREMENTS:		"B" OCCUPANCY	NA
(2018 IBC TABLE 601)			
STRUCTURAL FRAME	0	**EGRESS WIDTH:**	(IBC 2018 1005)
EXT. BEARING WALLS	0	STAIRWAYS	NA
INT. BEARING WALLS	0	OTHER COMPONENTS	0.2 inches per occupant
EXT. NON-BEARING WALLS	0		
INT. NON-BEARING WALLS	0	**INTERIOR WALL & CEILING FINISH**	(2018 IBC TABLE 803.13)
FLOORS	0		"B" OCCUPANCY / "S" OCCUPANCY
ROOFS	0	Exit Enclosures & Passageways	CLASS A / NA
		Corridors	CLASS B / NA
		Rooms & Enclosed Spaces	CLASS C / CLASS C
		ELEVATOR RECALL	
		FIRE SERVICE ACCESS ELEV.	Not Required / Not Provided
		OCCUPANT EVAC. ELEV.	Not Required / Not Provided
		ELEV. EMERGENCY SHUTDOWN	Not Required / Not Provided

OCCUPANCY KEY SCHEDULE - room

OCCUPANCY	OCCUPANCY DESCRIPTION	FLOOR AREA PER OCCUPANT
B	Business	100 SF
S/ME	Accessory Storage Areas, Mechanical Room	300 SF

SHEET HISTORY:
ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

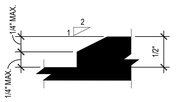
May 15, 2023

JEFFREY A. CHADWICK, P.E. A-3594 STATE OF NEBRASKA

Preliminary

Code Compliance Plan

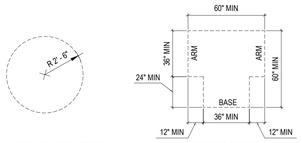
G0.10



BEVELED CHANGE IN LEVEL

ADA - CHANGES IN LEVEL (303)

SCALE: 12" = 1'-0"

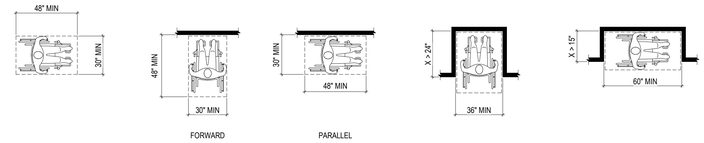


CIRCULAR TURNING SPACE

T-SHAPED TURNING SPACE

ADA - TURNING SPACE (304)

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



CLEAR FLOOR OR GROUND SPACE

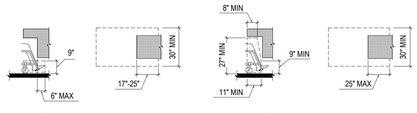
POSITION OF CLEAR FLOOR OR GROUND SPACE

MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

ADA - CLEAR FLOOR OR GROUND SPACE (305)

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

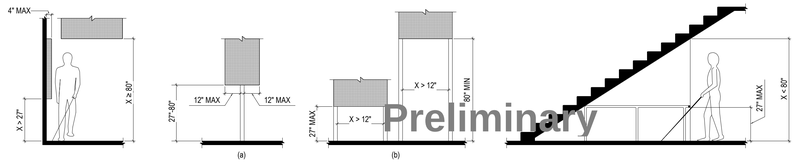


TOE CLEARANCE

KNEE CLEARANCE

ADA - KNEE AND TOE CLEARANCE (306)

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



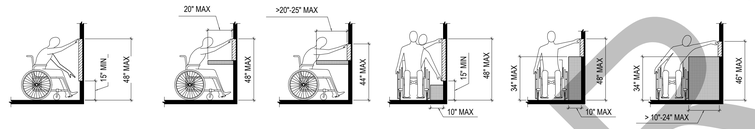
LIMITS OF PROTRUDING OBJECTS

POST-MOUNTED PROTRUDING OBJECTS

VERTICAL CLEARANCE

ADA - PROTRUDING OBJECTS (307)

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



UNOBSTRUCTED FORWARD REACH

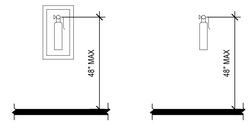
OBSTRUCTED HIGH FORWARD REACH

UNOBSTRUCTED SIDE REACH

UNOBSTRUCTED HIGH SIDE REACH

ADA - REACH RANGES (308)

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

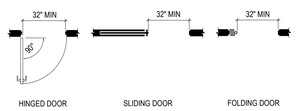


CABINET MOUNTED

WALL MOUNTED

ADA - FIRE EXTINGUISHERS

SCALE: 3/8" = 1'-0"

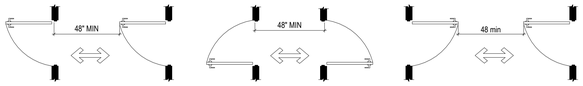


HINGED DOOR

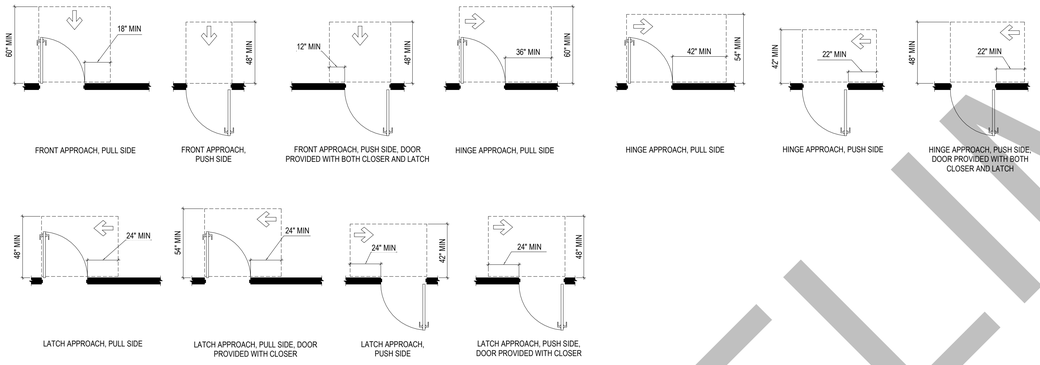
SLIDING DOOR

FOLDING DOOR

CLEAR WIDTH OF DOORWAYS



DOORS IN SERIES AND GATES IN SERIES



FRONT APPROACH, PULL SIDE

FRONT APPROACH, PUSH SIDE

FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

HINGE APPROACH, PULL SIDE

HINGE APPROACH, PULL SIDE

HINGE APPROACH, PUSH SIDE

HINGE APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

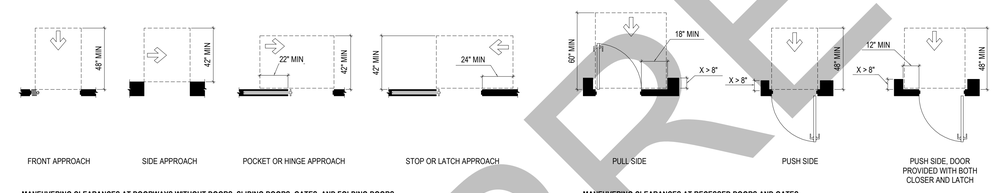
LATCH APPROACH, PULL SIDE

LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER

LATCH APPROACH, PUSH SIDE

LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER

MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



FRONT APPROACH

SIDE APPROACH

POCKET OR HINGE APPROACH

STOP OR LATCH APPROACH

PULL SIDE

PUSH SIDE

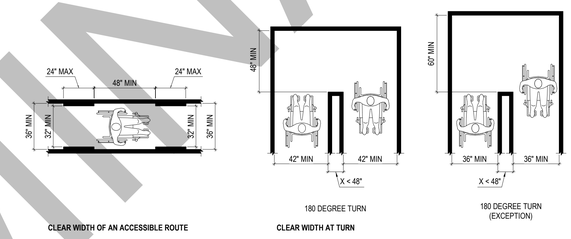
PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

ADA - DOORS, DOORWAYS, AND GATES (404)

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



CLEAR WIDTH OF AN ACCESSIBLE ROUTE

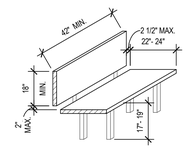
180 DEGREE TURN

CLEAR WIDTH AT TURN

180 DEGREE TURN (EXCEPTION)

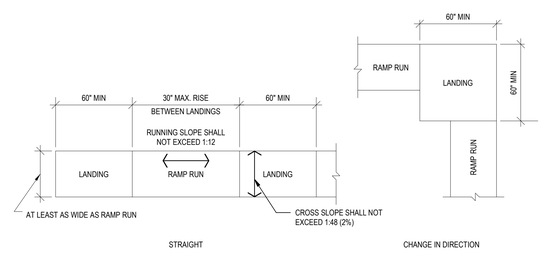
ADA - WALKING SURFACES (403)

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



ADA - BENCHES (903)

SCALE: 3/8" = 1'-0"



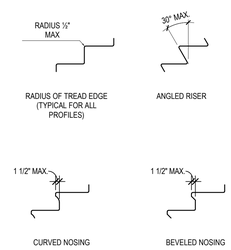
STRAIGHT

CHANGE IN DIRECTION

RAMP LANDINGS

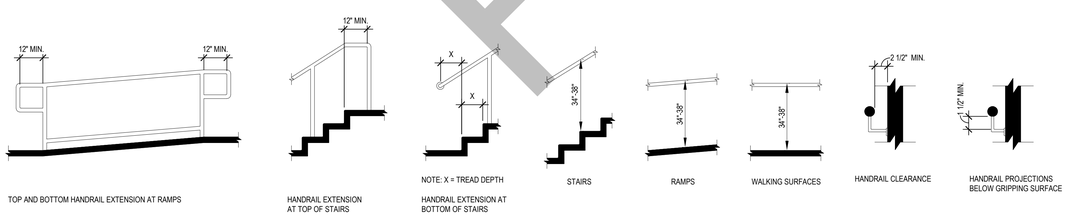
ADA - RAMPS (405)

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



ADA - STAIR NOSINGS (504)

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



TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

HANDRAIL EXTENSION AT TOP OF STAIRS

NOTE: X = TREAD DEPTH

HANDRAIL EXTENSION AT BOTTOM OF STAIRS

STAIRS

RAMPS

WALKING SURFACES

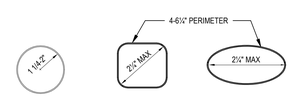
HANDRAIL CLEARANCE

HANDRAIL PROJECTIONS BELOW GRIPPING SURFACE

*RAILINGS SHOWN ARE FOR REFERENCE ONLY. REFER TO DESIGN DOCUMENTS FOR RAILING DESIGN.

ADA - HANDRAILS (505)

SCALE: 3/8" = 1'-0"



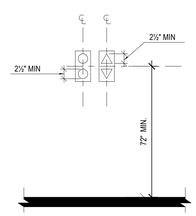
CIRCULAR CROSS SECTION

NON-CIRCULAR CROSS SECTIONS

*REFER TO DESIGN DOCUMENTS FOR RAILING DESIGN.

ADA - HANDRAIL PROFILES (505)

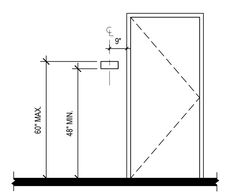
SCALE: 3/8" = 1'-0"



VISIBLE HALL SIGNALS

ADA - ELEVATORS (407)

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



ADA - SIGNAGE MOUNTING (703)

SCALE: 3/8" = 1'-0"

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

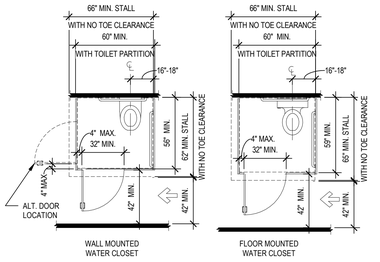
CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

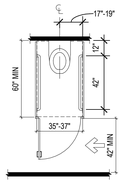
ADA Details

G0.20

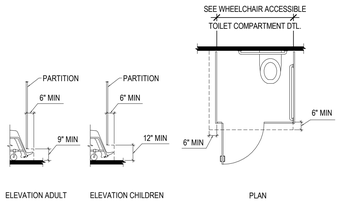


WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

NOTE: ALL DIMENSIONS ARE TO FINISH FACE OF WALL SURFACE

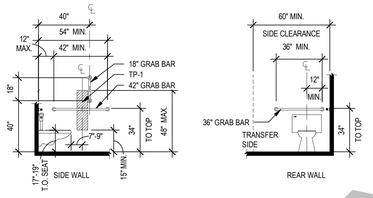


AMBULATORY ACCESSIBLE TOILET COMPARTMENT



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

NOTE: ALL DIMENSIONS ARE TO FINISH FACE OF WALL SURFACE
NOTE: TOE CLEARANCE NOT REQUIRED WHEN FLOOR SPACE IS INCREASED PER WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DETAIL.

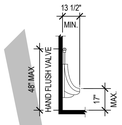


GRAB BARS AT WATER CLOSETS

NOTE: ALL DIMENSIONS ARE TO FINISH FACE OF WALL SURFACE

ADA - WATER CLOSETS AND TOILET COMPARTMENTS (604)

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

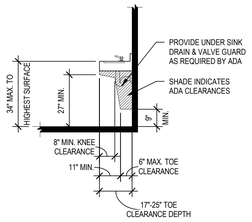


ACCESSIBLE URINAL

NOTE: PROVIDE 30" X 48" CLEAR SPACE IN FRONT OF URINAL

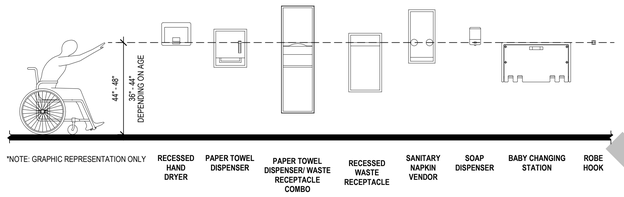
ADA - URINALS (605)

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



ADA - LAVATORIES (606)

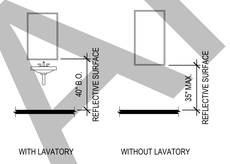
SCALE: 3/8" = 1'-0"



*NOTE: GRAPHIC REPRESENTATION ONLY

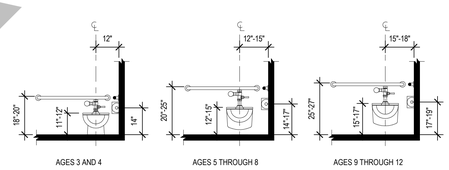
ADA - TOILET ROOM ACCESSORIES

SCALE: 3/8" = 1'-0"



ADA - MIRRORS (603.3)

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

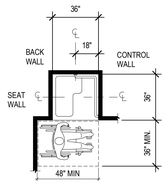


WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE

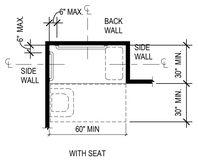
NOTE: ADVISORY SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THRU 12

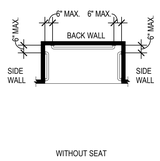
WATER CLOSETS SERVING CHILDREN (604.9)

SCALE: 3/8" = 1'-0"

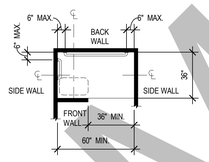


TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

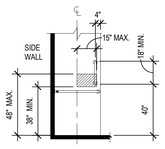




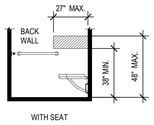
STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE



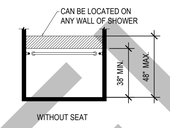
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

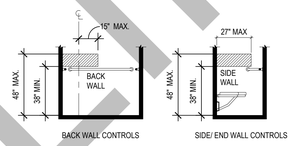


TRANSFER TYPE SHOWER COMPARTMENT



STANDARD ROLL-IN TYPE SHOWER COMPARTMENT

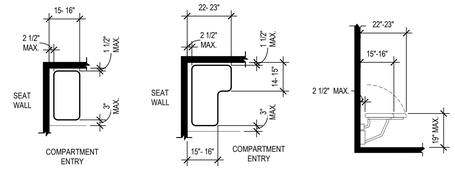




ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

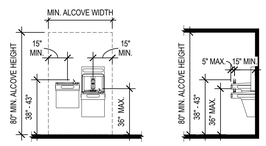
ADA - SHOWER COMPARTMENTS (608)

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



ADA - SHOWER SEATS (610)

SCALE: 3/8" = 1'-0"



ADA - WATER COOLER & BOTTLE FILLERS (602)

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

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

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Architecture Contact: Tim Ripp
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COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

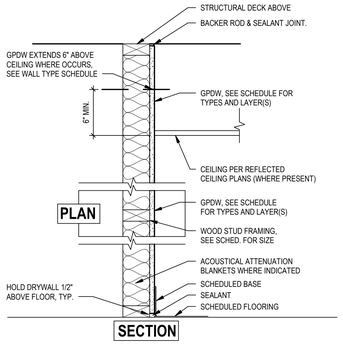
CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

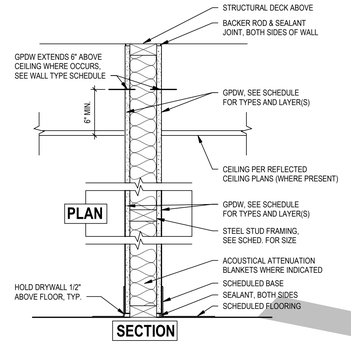
ADA Details

G0.21



WOOD STUD FURRING - (TYPE A, B, C, D)

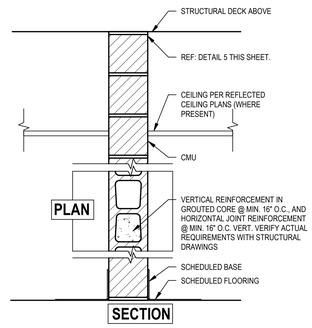
TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
D4	2x4 WOOD STUDS @ 16" O.C.	(1) LAYER BRUSHED TEXTURE 22ga. 304 STAINLESS STEEL PANEL OVER 5/8" PLYWD.	-	4 1/4"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	NA	-	



WOOD STUD PARTITION - (TYPE F, G, H, J, K)

NOTE: FOR STUD GAUGE SEE 'INTERIOR STEEL STUD FRAMING GAUGE TABLE TYPE 1, THIS SHEET

TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
F3	2x4 WOOD STUDS @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	4 7/8"	STUDS TO STRUCTURE AND GPDW TO MIN. 6" ABOVE CEILING	NA	NA		



MASONRY PARTITION - (TYPE S, T, U)

*FIRE RATED CONSTRUCTION NOTE:
PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE OF ASSEMBLIES WITH FIRE-RESISTANCE RATINGS DETERMINED PER ASTM E 119 BY A TESTING AND INSPECTING AGENCY.

TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
S6	6" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	5 5/8"	TO 7'-4" A.F.F.	NA	NA	-	
S8	8" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	7 5/8"	TO 10'-0" A.F.F.	NA	NA	-	
S10	10" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	9 5/8"	TO 10'-0" A.F.F.	NA	NA	-	

1 WALL TYPES

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

GENERAL NOTES:

1) CONTRACTOR TO COORDINATE SPACING OF STUDS W/ MECH. AND ELECTRICAL DRAWINGS.

2) WHERE PLYWOOD IS INDICATED ON THE DRAWINGS CONTRACTOR SHALL INSTALL PLYWOOD IN LIEU OF GPDW INDICATED. SEE ELECTRICAL AND ARCHITECTURAL SHEETS FOR PLYWOOD LOCATIONS.

3) STC-RATED ASSEMBLIES AND PARTITIONS INDICATED TO RECEIVE SOUND INSULATION: SEAL CONSTRUCTION AT PERIMETERS, BEHIND CONTROL JOINTS AND AT OPENINGS & PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL JOINT SEALANT. INSTALL ACOUSTICAL JOINT SEALANTS AT BOTH FACES OF PARTITIONS, AT PERIMETER AND THROUGH PENETRATIONS.

4) ALL WALL FRAMING THAT DOES NOT EXTEND TO STRUCTURE OR DECK SHALL BE BRACED AT 48" O.C. MIN.

5) PAINT WALLS PER ROOM FINISH SCHEDULE.

6) ALL WALL BOARD IN MECHANICAL ROOMS SHALL BE MOLD & MOISTURE RESISTANT DRYWALL.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

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COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

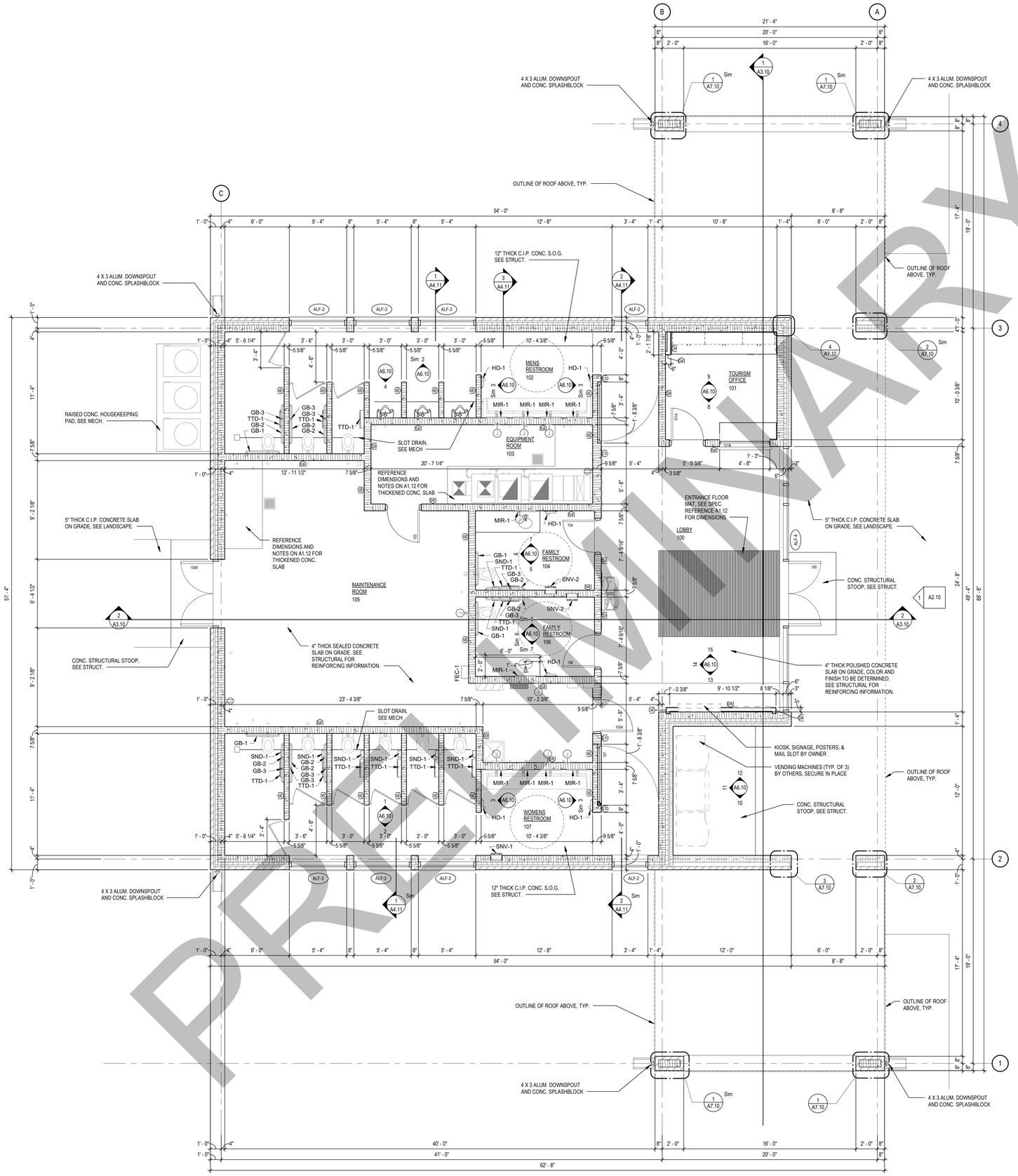
CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

Wall Type Schedule & Details

A0.00



1 FIRST FLOOR PLAN

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

GENERAL PLAN NOTES

1. ALL WALL / GENERAL PLAN DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, AND TO FACE OF GYP. BOARD, TYP.
2. SEE SHEET A1.12 FOR CONTROL JOINT PLAN.
3. CONSTRUCTION OF WALLS ARE DESIGNATED STARTING ON TAG SIDE OF WALL.
4. REFER TO STRUCTURAL DRAWINGS FOR GROUTING AND REINFORCEMENT OF CMU WALLS.
5. ALL INTERIOR WALL FRAMING NOTED IN WALL TYPE SCHEDULE EXTENDS TO STRUCTURAL DECKING, BRACE AS REQUIRED.
6. PROVIDE BULLNOSE UNITS @ ALL DOOR AND WINDOW OPENINGS, END WALLS, AND OUTSIDE CORNERS IN CMU WALLS.
7. REFER TO CODE COMPLIANCE PLANS FOR LOCATION OF FIRE RATED WALLS AND SMOKE SEPARATION WALL LOCATIONS AND REQUIREMENTS.
8. ALL OPENINGS IN RATED ASSEMBLIES SHALL BE SEALED WITH FIRE / SMOKE RATED MATERIALS AND ASSEMBLIES. INSTALL RATED JOINT SEALANTS AT BOTH FACES OF PARTITIONS, AT PERIMETERS, AND THROUGH FIRE RATED ASSEMBLIES. REFERENCE CODE COMPLIANCE PLANS FOR LOCATION OF RATED ASSEMBLIES.
9. ALL EXPANSION JOINT COVERS WITH CONNECTION TO RATED ASSEMBLIES SHALL MEET THE SAME REQUIRED RATING AS THE ASSEMBLY. REFERENCE CODE COMPLIANCE PLANS FOR LOCATION OF RATED ASSEMBLIES.
10. ALL STC-RATED WALL ASSEMBLIES AND PARTITIONS INDICATED SHALL HAVE STAGGERED SHEATHING AND GYP. BOARD JOINTS ON OPPOSITE SIDES OF ASSEMBLIES. REFERENCE WALL TYPE SCHEDULE FOR SOUND ATTENUATION INSULATION REQUIRED WITHIN STUD CAVITIES. SEAL ASSEMBLIES AT CONSTRUCTION PERIMETERS, DECKING MATERIAL (TOP & BOTTOM), BEHIND CONTROL JOINTS, AND AT ALL OPENINGS AND PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL JOINT SEALANT. INSTALL ACOUSTICAL JOINT SEALANTS AT BOTH FACES OF ASSEMBLIES
11. GENERAL CONTRACTOR SHALL COORDINATE REPAINTING OF WALLS BETWEEN SUBCONTRACTORS AFTER EXISTING FIXTURES ARE SCHEDULED TO BE REMOVED AND PRIOR TO FIXTURES BEING REINSTALLED. REFER TO ELECTRICAL & MECHANICAL PLANS.
12. ALL WALL BOARD IN MECHANICAL ROOMS SHALL BE MOLD & MOISTURE RESISTANT DRYWALL.
13. REFERENCE REFLECTED CEILING PLAN FOR ADDITIONAL WALL TAGS ABOVE 110' - 0".

SHEET HISTORY:

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COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
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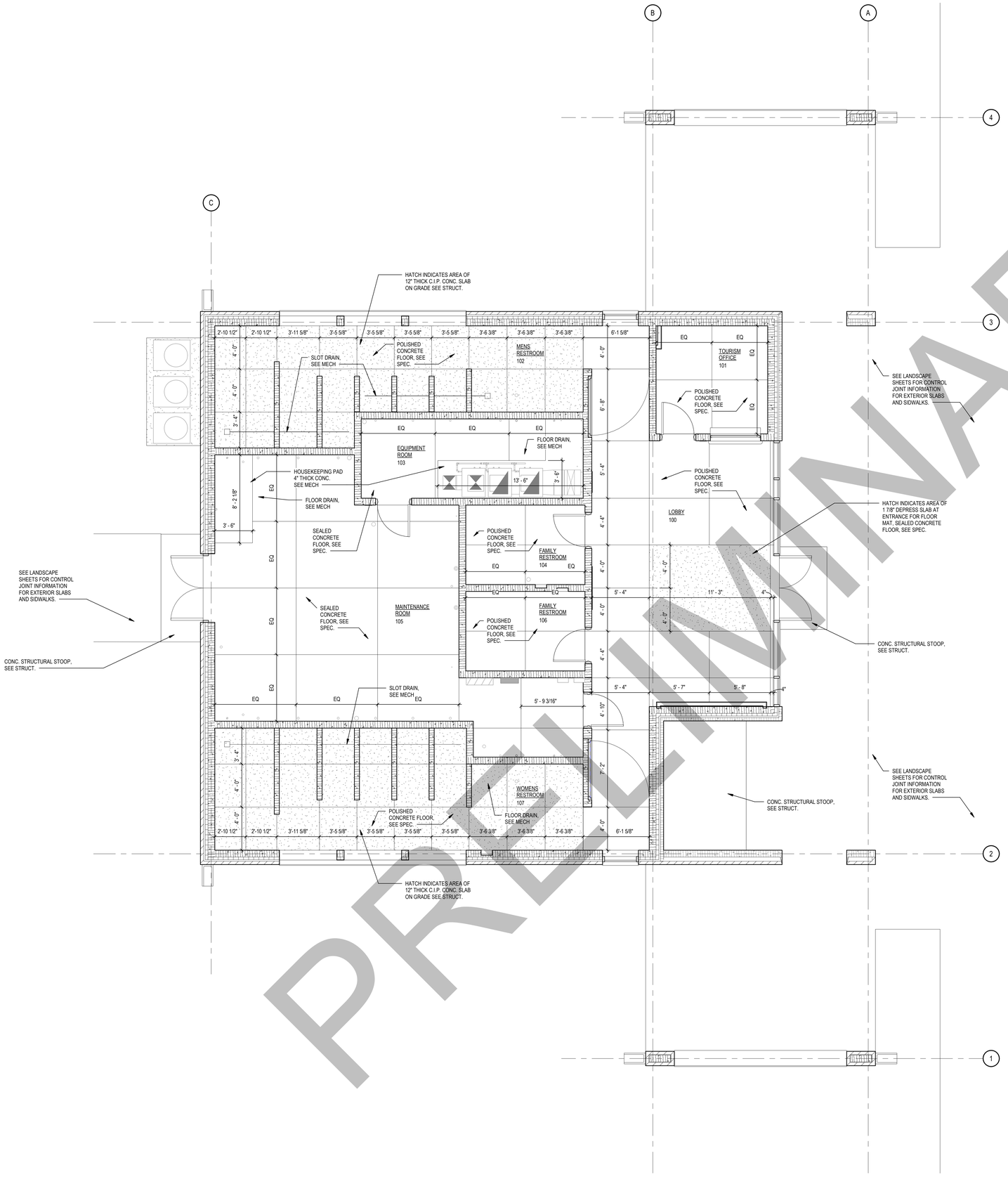
Control No.: 51276A

May 15, 2023

Preliminary

First Floor Plan

A1.11



1 CONCRETE FLOOR SLAB CONTROL JOINT PLAN

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

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Control No.: 51276A

May 15, 2023

Preliminary

Concrete Floor Slab Control Joint Plan

A1.12

Plot Time Stamp: 5/16/2023 11:57:05 AM
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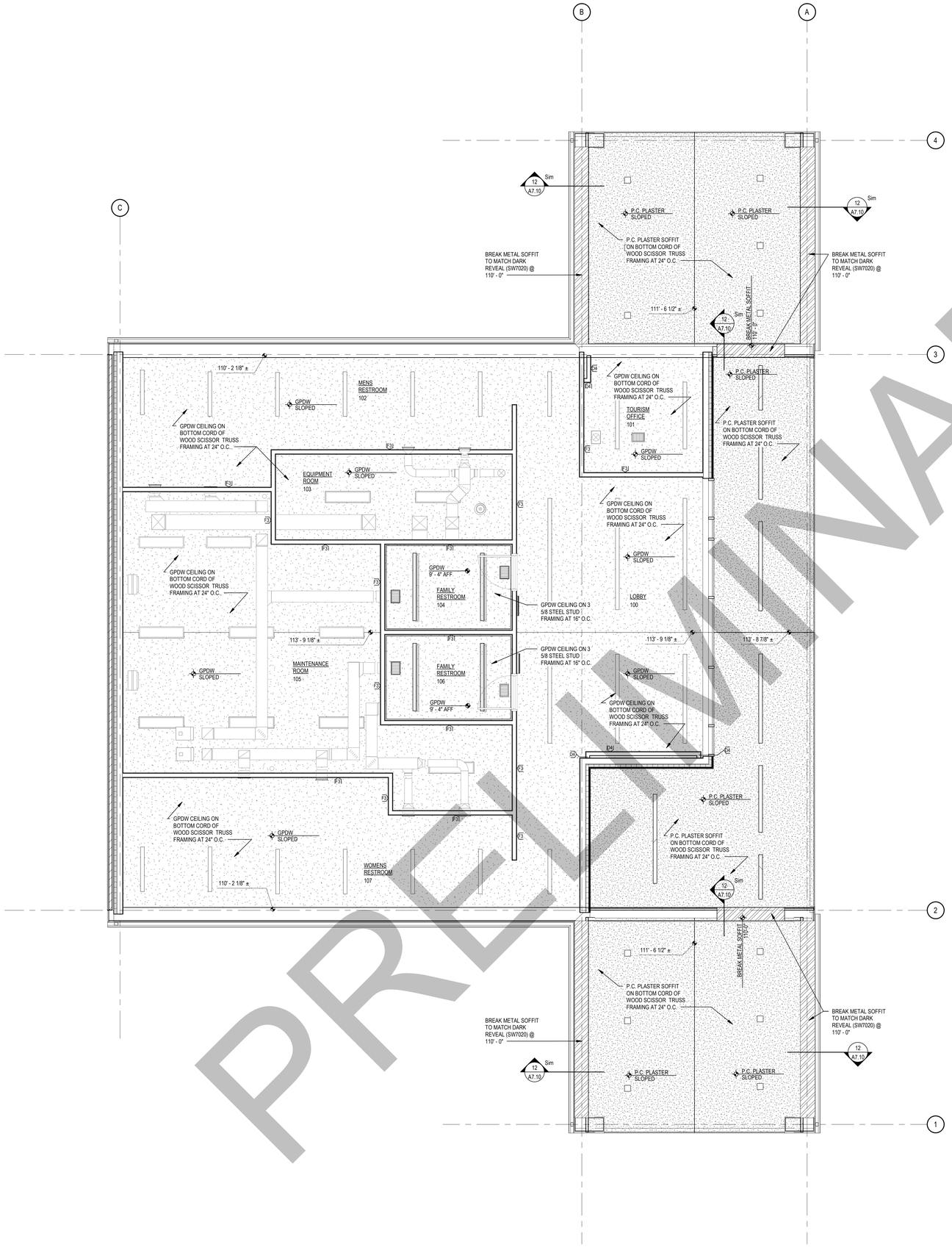

1 **FIRST FLOOR REFLECTED CEILING PLAN**

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

REFLECTED CLG GENERAL NOTES:

1. LIGHTING FIXTURES AND MECHANICAL DIFFUSERS / GRILLES ARE SHOWN FOR REFERENCE ONLY, SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS
2. ELEVATION TAGS ARE IN REFERENCE TO ARCHITECTURAL ELEVATIONS
3. SEE FINISH SHEETS FOR PAINT.
4. PROVIDE ACCESS PANELS AS REQUIRED IN HARD LID CEILINGS. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

REFLECTED CLG LEGEND	
	5/8" SUSPENDED GPDW CEILING SYSTEM
	SUSPENED P.C. PLASTER SOFFIT SMOOTH FINISH
AP	2x2 ACCESS PANEL. REF: SPEC.
	RECESSED & PENDANT MOUNTED LIGHT FIXTURES, REF: ELECTRICAL
○	RECESSED DOWNLIGHT, REF: ELECTRICAL
▯	EXIT SIGNAGE, REF: ELECTRICAL
	RETURN AIR / EXHAUST AIR GRILLE, REF: MECHANICAL
⊠	SUPPLY AIR DIFFUSER, REF: MECHANICAL.

RCP ABBREVIATIONS

APC - ACOUSTICAL PANEL CEILING
LWC - LINEAR WOOD CEILING
MPS - METAL PANEL SOFFIT
GPDW - GYPSUM DRY WALL

SHEET HISTORY:

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Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
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Control No.: 51276A

May 15, 2023

JEFFREY A. CHADWICK A-3504 5-15-23 STATE OF NEBRASKA

Preliminary

First Floor Reflected Ceiling Plan

A1.21

Plot Time Stamp: 5/16/2023 11:57:07 AM
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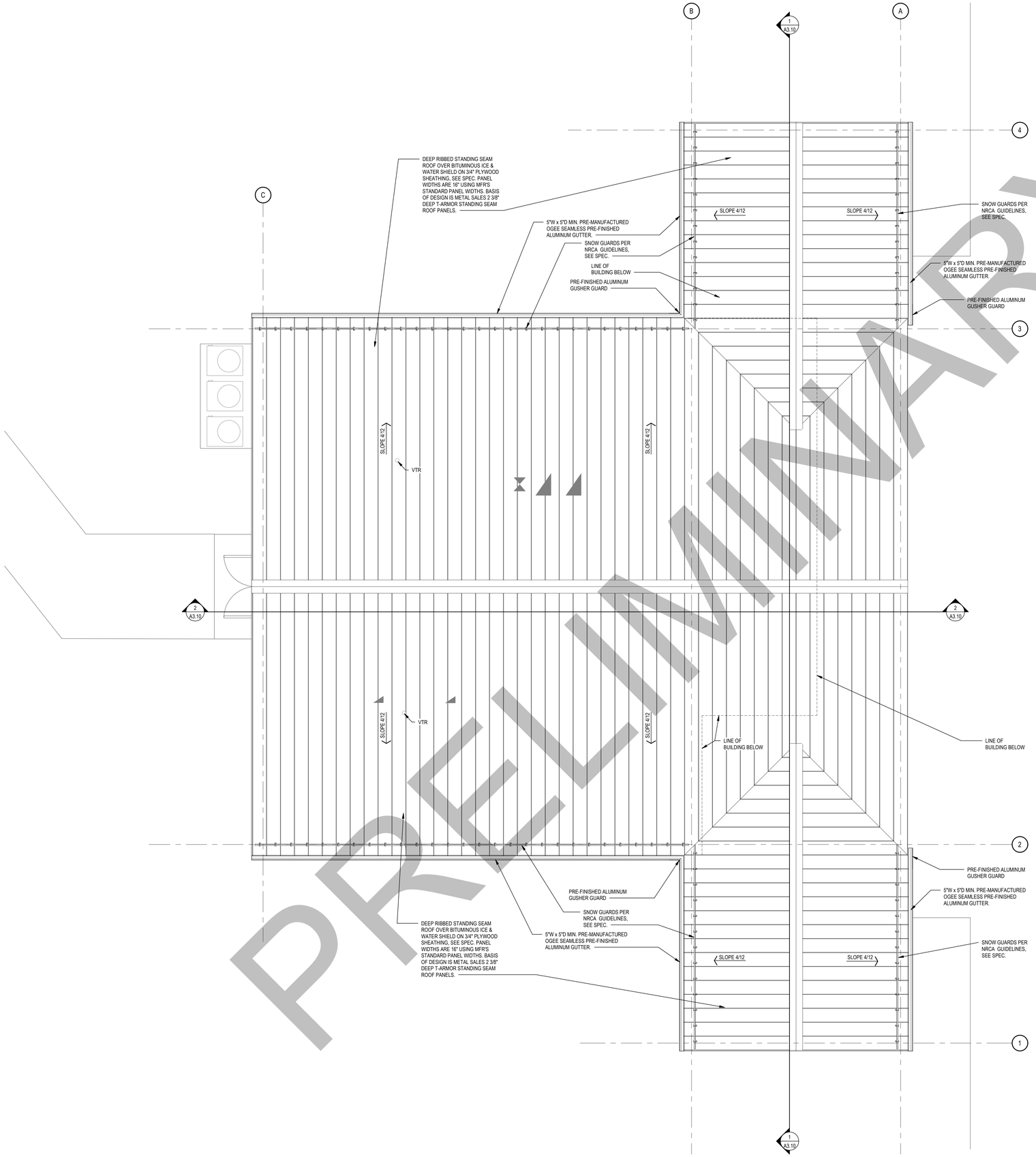

1 **ROOF PLAN**
SCALE: 1/4" = 1'-0"

ROOF PLAN GENERAL NOTES:

1. ALL ROOFING SHALL BE INSTALLED IN ACCORDANCE WITH - THE NRCA ROOFING MANUAL: METAL PANEL AND SPF ROOF SYSTEMS - 2016.
2. ROOFING SYSTEM SHALL BE A MINIMUM 22ga. DEEP RIBBED STANDING SEAM MECHANICALLY FASTENED ROOFING SYSTEM OVER SELF-ADHEREING MEMBRANE UNDERLAYMENT OR AS PER MANUFACTURER'S REQUIREMENTS. SYSTEM SHOULD QUALIFY FOR A MINIMUM 20 YEAR WARRANTY. COLOR TO MATCH CLEAR SATIN ANODIZED FRAMING SYSTEM.
3. THE ROOF SLOPE SHALL BE 4" PER FOOT UNLESS INDICATED OTHERWISE. SLOPE DIRECTION IS DOWN AS INDICATED, SLOPE IS NOTED IN DISTANCE PER FOOT.
4. PROVIDE CHAMFERS, CRICKETS , BOOTS AND / OR SADDLES AS REQUIRED AT OBSTRUCTIONS TO DRAINAGE.
5. VERIFY ALL MECHANICAL PENETRATIONS WITH MECHANICAL AND MECHANICAL CONTRACTOR.
6. INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH NRCA ROOFING MANUAL. INSTALL NEW ACCESSORIES AS REQUIRED PER ORIGINAL MANUFACTURER.
7. INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) AND NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) ROOFING MANUAL.

SHEET HISTORY:
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COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

JEFFREY A. CHADWICK
A-3504
STATE OF NEBRASKA

Preliminary

Roof Plan

A1.30

Plot Time Stamp: 5/16/2023 11:57:10 AM
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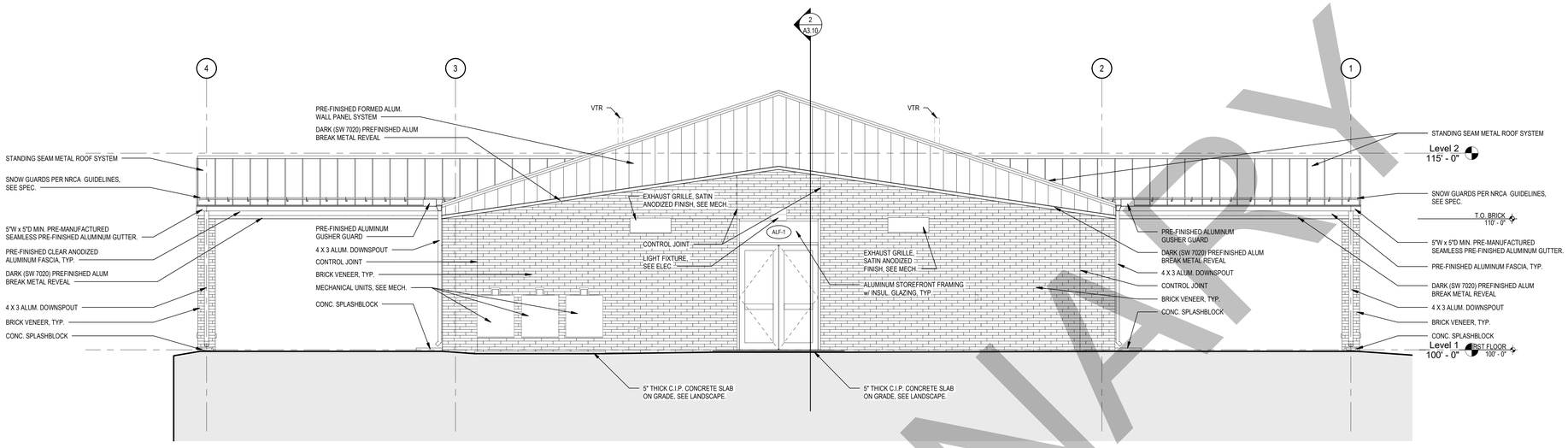
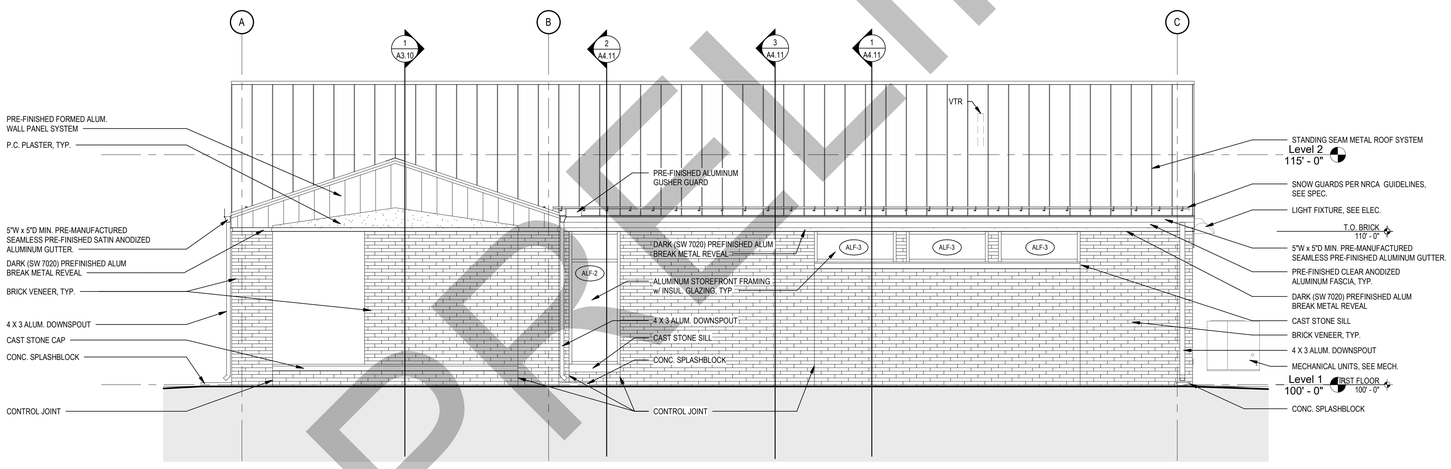


1 WEST ELEVATION

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



2 NORTH ELEVATION

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

EXTERIOR MATERIALS KEY

BRICK	ENDICOTT - 2 1/4" MERIDIAN - 1/3 RUNNING BOND - REF. SPEC FOR BLEND
BURNISHED CMU	COUNTY MATERIALS - COLOR TBD - BLEND OF NOM. 8" & 4" TALL UNITS w/ SCORING - REF: DETAIL 3, SHEET A2.10
PLASTER	WHITE FOR CEILING APPLICATION, SW 7020 BLACK FOX FOR WALL APPLICATION
CAST STONE	SEE SPEC.
METAL ROOF	STANDING SEAM METAL ROOFING PANELS. SEE SPEC.
FORMED METAL PANEL	PREFINISHED FORMED METAL WALL PANELS. SEE SPEC

NOTE: MATERIALS LISTED ARE BASIS OF DESIGN, REFER SPEC. FOR APPROVED ALTERNATES

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Preliminary

West and North Exterior Elevations

A2.11

Plot Time Stamp: 5/16/2023 11:57:15 AM
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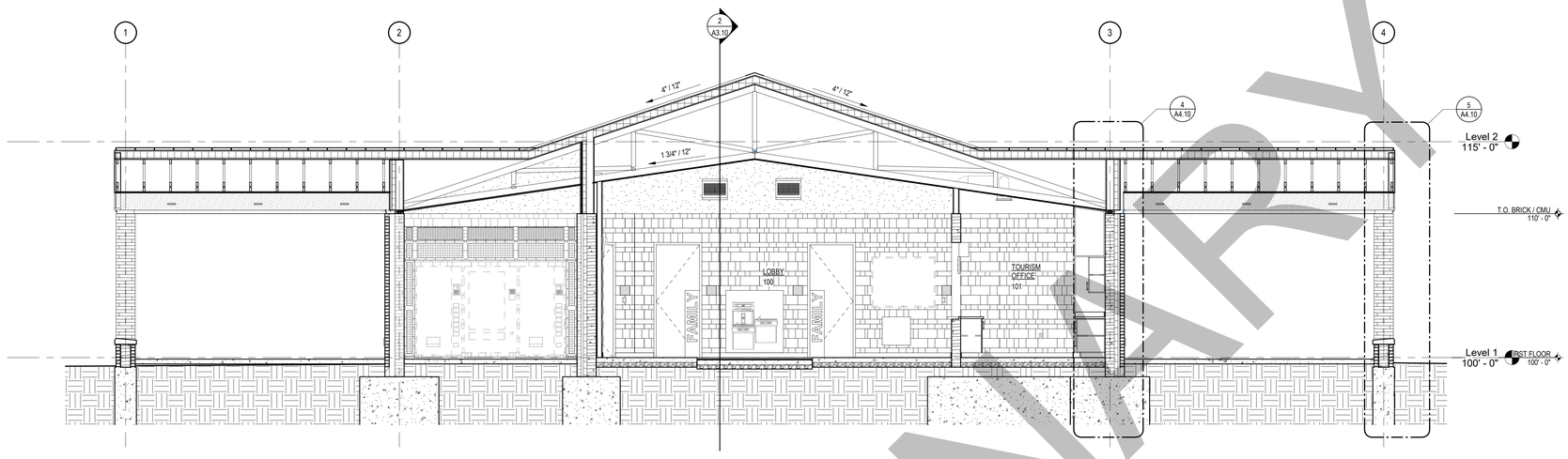
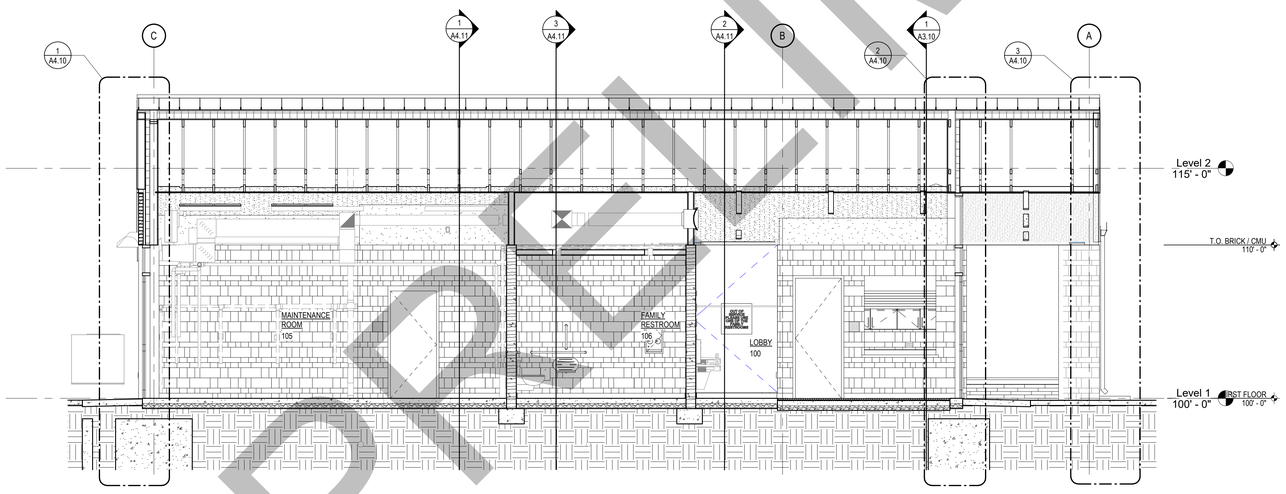


1 BUILDING CROSS SECTION

NORTH TO SOUTH LOOKING WEST

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



2 BUILDING CROSS SECTION

EAST TO WEST LOOKING NORTH

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

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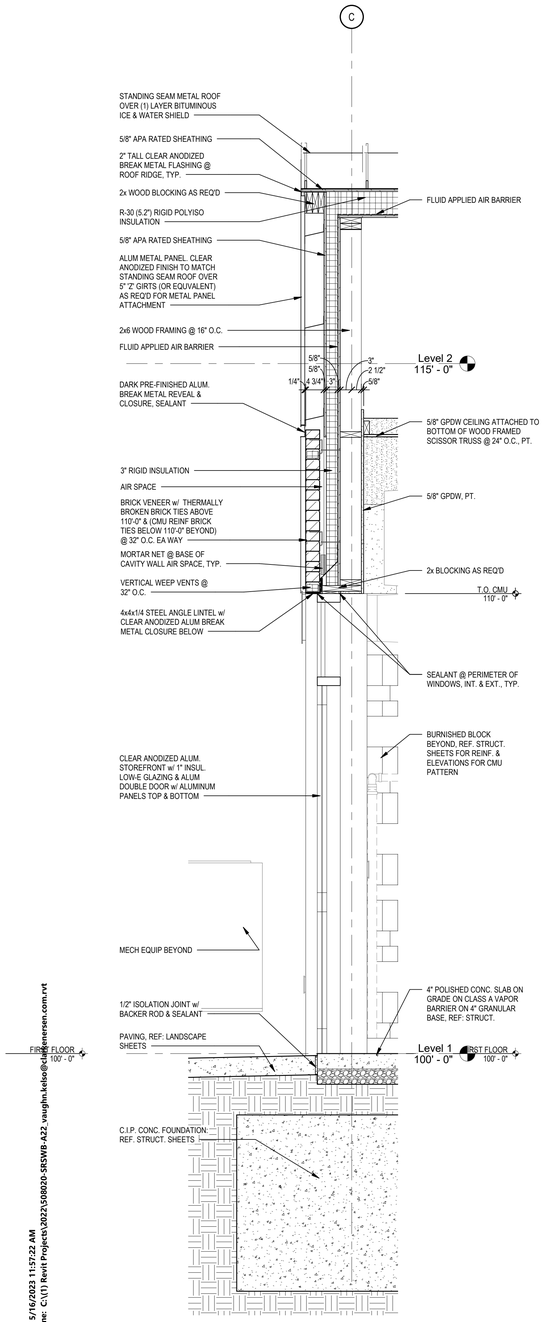
Preliminary

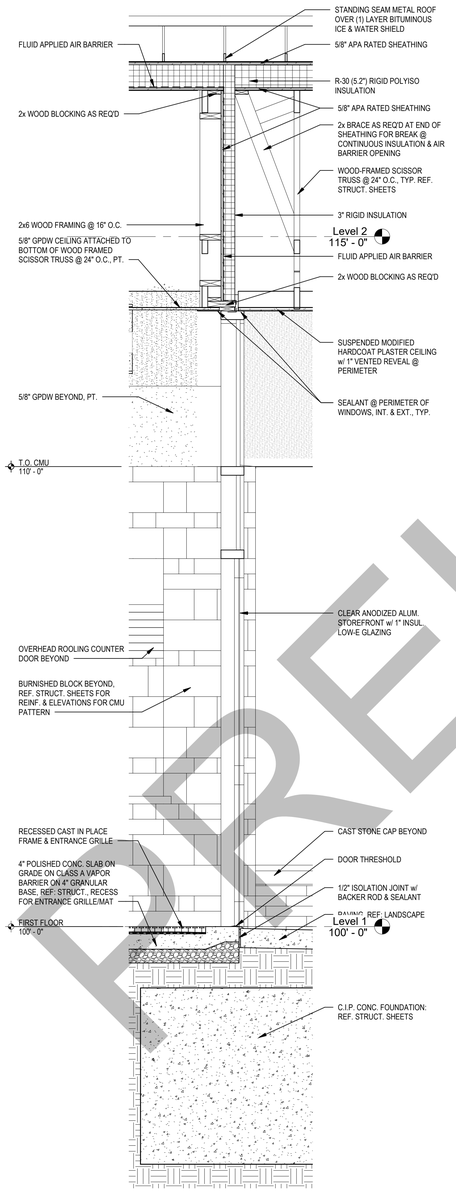
Building Cross Sections

A3.10



1 WALL SECTION

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



2 WALL SECTION

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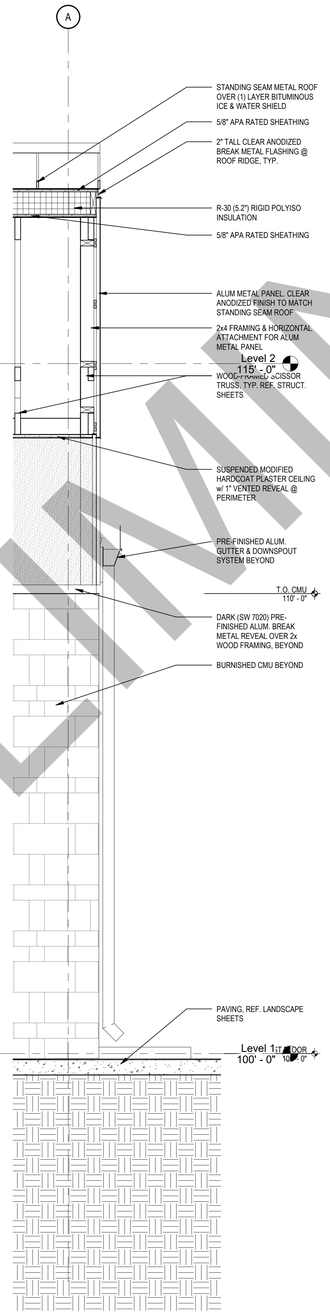

3 WALL SECTION

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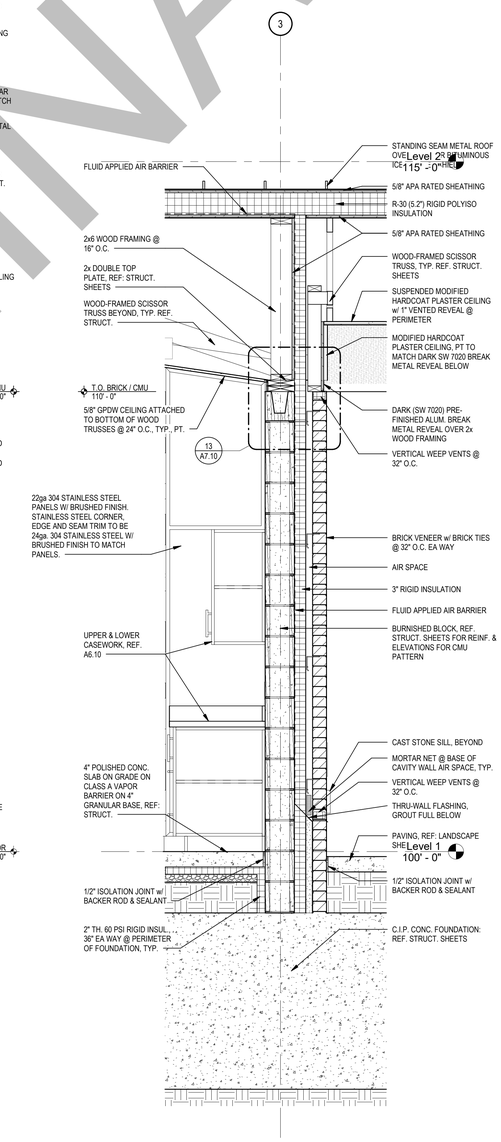
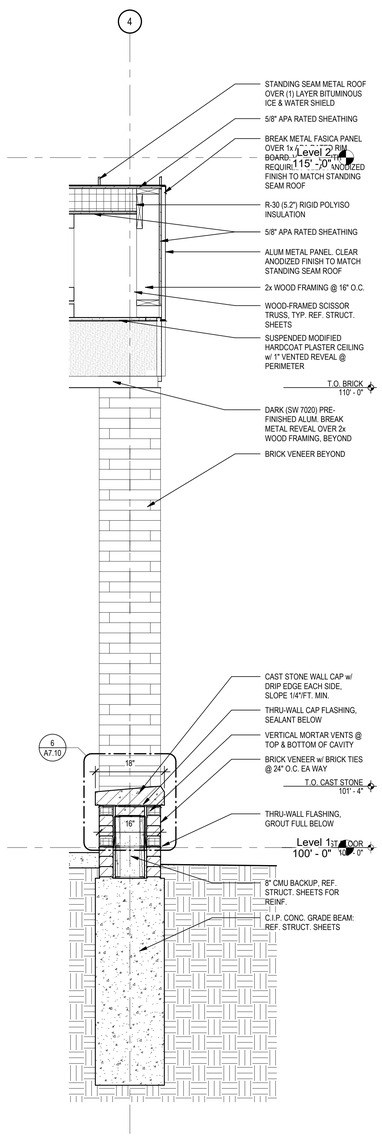


4 WALL SECTION

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



5 WALL SECTION

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

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Sidney, Nebraska

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Control No.: 51276A

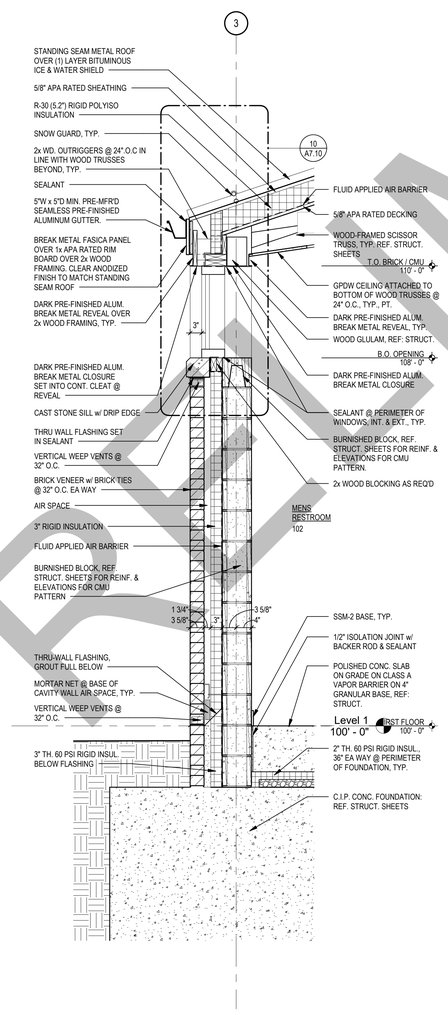
May 15, 2023

JEFFREY A. CHADWICK
A-3594
STATE OF NEBRASKA

Preliminary

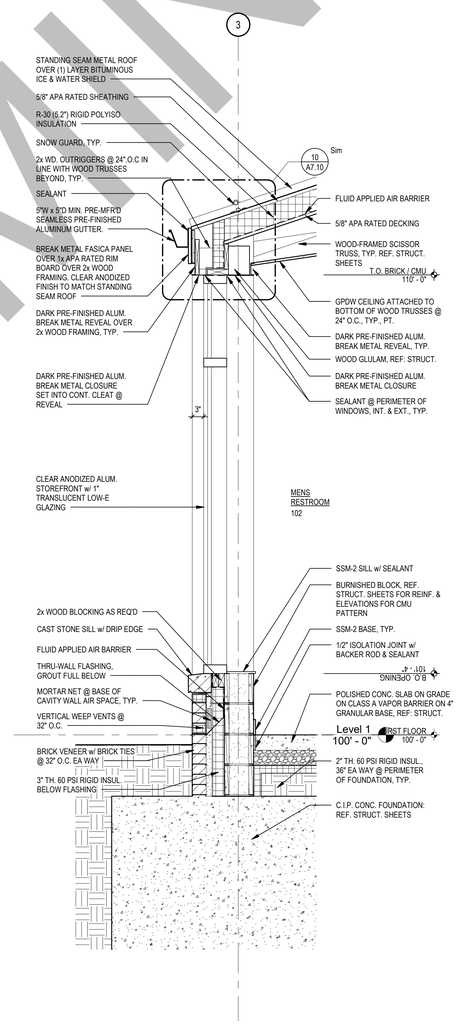
Wall Sections

A4.10



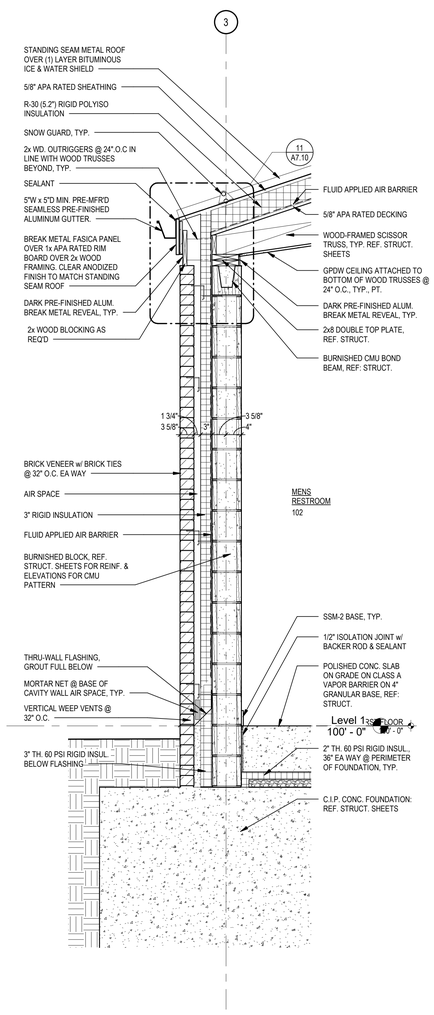
1 WALL SECTION

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



2 WALL SECTION

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



3 WALL SECTION

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

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CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

Wall Sections

A4.11

Plot Time Stamp: 5/16/2023 11:57:24 AM
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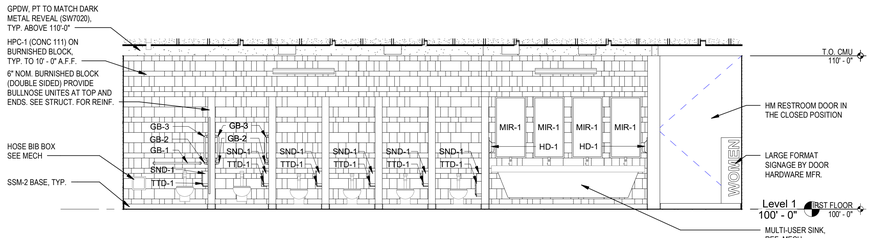
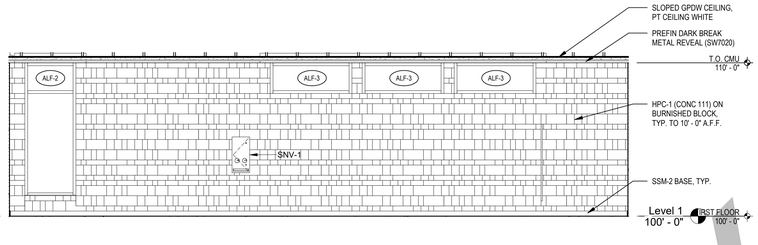


1 NORTH WALL ROOM 107

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



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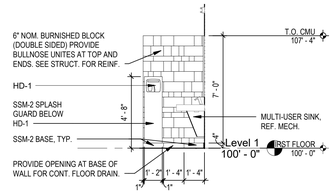
SCALE: 1/4" = 1'-0"



3 TYP. HAND DRYER

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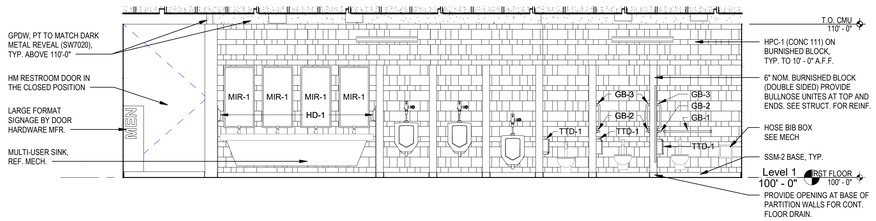

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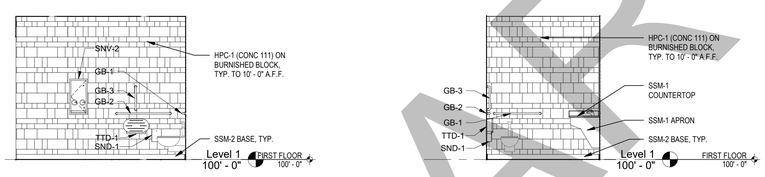

5 SOUTH WALL ROOM 104

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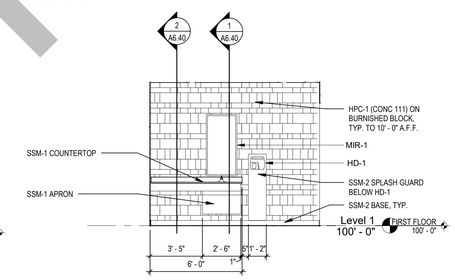

6 WEST WALL ROOM 104

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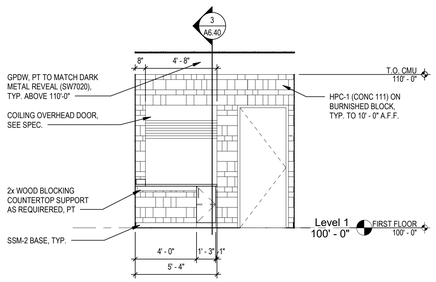

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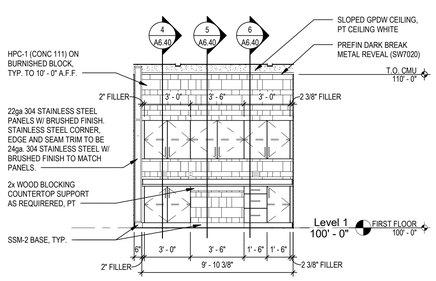
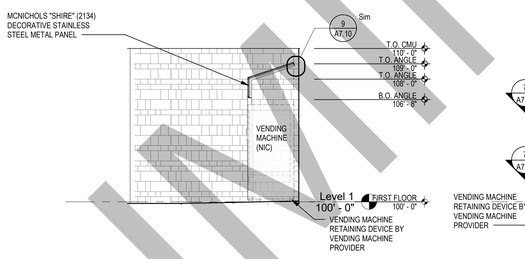


8 SOUTH WALL ROOM 101

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

9 NORTH WALL ROOM 101

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



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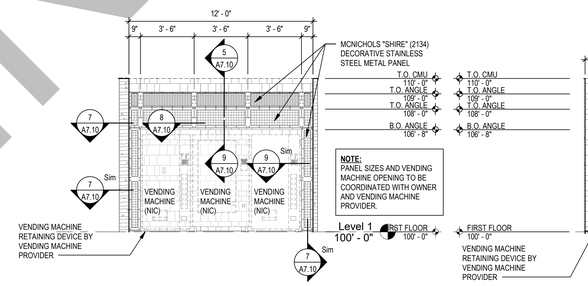

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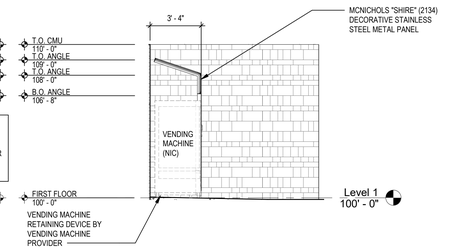

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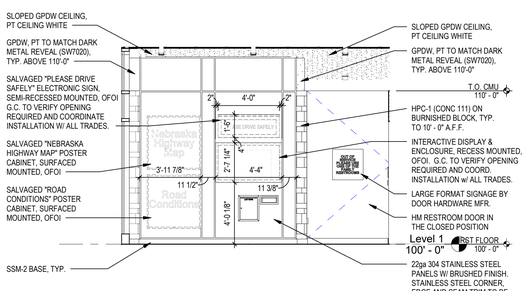

13 SOUTH WALL ROOM 100

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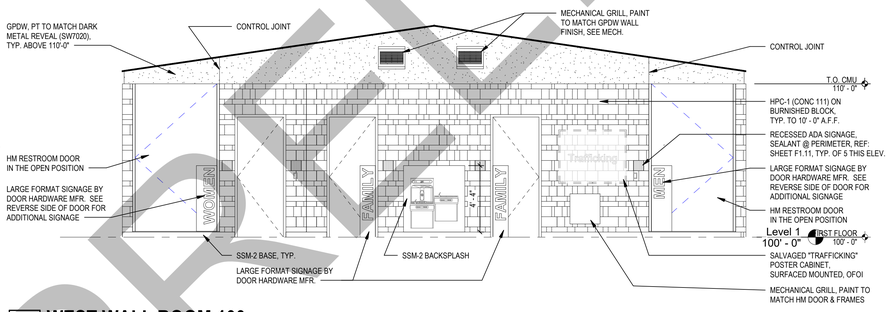

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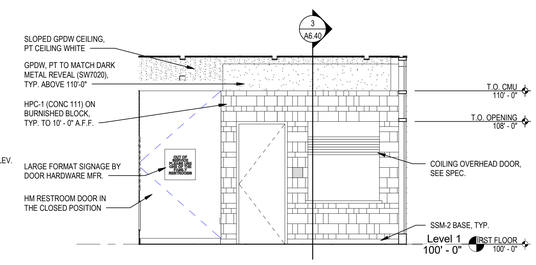


15 NORTH WALL ROOM 100

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

TOILET ACCESSORY SCHEDULE

ABBR.	ACCESSORY	MANUFACTURER	MODEL NUMBER	FURNISHED BY	INSTALLED BY	REMARKS
GB-1	36" GRAB BAR	BOBRICK	B-6806.99X36	CONTRACTOR	CONTRACTOR	
GB-2	48" GRAB BAR	BOBRICK	B-6806.99X48	CONTRACTOR	CONTRACTOR	
GB-3	18" GRAB BAR - VERTICAL	BOBRICK	B-6806.99X18	CONTRACTOR	CONTRACTOR	
HD-1	HAND DRYER	WORLD DRYER, INC.	SLIMDRI L-973	CONTRACTOR	CONTRACTOR	ADA DEPTH
MIR-1	2'-0" W x 4'-0" H MIRROR	BOBRICK	B-2908	CONTRACTOR	CONTRACTOR	
SND-1	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	CONTRACTOR	CONTRACTOR	
SNV-1	SANITARY NAPKIN VENDOR	BOBRICK	B-37063 25	CONTRACTOR	CONTRACTOR	RECESSED
SNV-2	SANITARY NAPKIN VENDOR	BOBRICK	B-3706 25	CONTRACTOR	CONTRACTOR	SEMI-RECESSED
TTD-1	TOILET TISSUE DISPENSER	BOBRICK	B-2888	CONTRACTOR	CONTRACTOR	

RESTROOM GENERAL NOTES:

1. TOILET PARTITION DOORS: 20 GA "LEATHER" TEXTURE STAINLESS STEEL DOOR WITH PLYWOOD CORE, CONTINUOUS STAINLESS STEEL HINGE, FLAT STRIKE, OCCUPANCY INDICATOR, AND MOUNT BOTTOM OF DOOR AT 12" A.F.F.

FIXTURE SCHEDULE

DESCRIPTION	TYPE	MOUNTING LOCATION
WATER COOLER	STANDARD	38"-43" A.F.F. TO SPOUT
	ADA*	36" MAX. A.F.F. TO SPOUT
TOILET	STANDARD	15" A.F.F. TO TOP OF SEAT
	ADA*	17" A.F.F. TO TOP OF SEAT
	CHILD (CHD)	REF: SHEET G0.21 FOR REQUIREMENT BY AGE
URINAL	STANDARD	24" A.F.F. TO RIM
	ADA*	15" A.F.F. TO RIM, VERIFY W/ MFR.
SINK	STANDARD	34" A.F.F. TO RIM
	ADA*	34" A.F.F. TO RIM
	CHILD (CHD)	30" A.F.F. TO RIM (UNO)
MIRROR	ABOVE SINK	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
	WITHOUT SINK	35" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
GRAB BAR	BACK BAR*	6" TO WALL - 35" A.F.F. TO TOP OF BAR
	SIDE BAR*	12" TO WALL - 35" A.F.F. TO TOP OF BAR
	VERTICAL BAR*	40" TO WALL - 40" A.F.F. TO BOTTOM OF BAR
TOILET TISSUE DISPENSER	VERIFY W/ MANUF.	REF: SHEET G0.21 FOR MOUNTING RANGE
PAPER TOWEL DISPENSER	VERIFY W/ MANUF.	REF: SHEET G0.21 FOR MOUNTING RANGE
SANITARY NAPKIN DISPOSAL	VERIFY W/ MANUF.	BELOW GRAB BAR - REF: SHEET G0.21 FOR MOUNTING RANGE
ELECTRIC HAND DRYER	VERIFY W/ MANUF.	34" A.F.F. TO TOP OF HAND DRYER
BABY CHANGING STATION	VERIFY W/ MANUF.	33" A.F.F. TO TOP OF BED WHEN OPENED.
CHILD SAFETY SEAT	VERIFY W/ MANUF.	14" A.F.F. TO BOTTOM OF SEAT

*TO COMPLY WITH 2010 ADA STANDARDS OF ACCESSIBLE DESIGN AND MFR. RECOMMENDATIONS.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

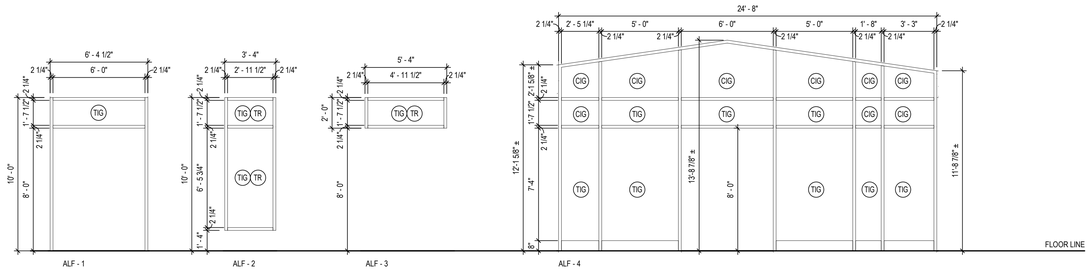
Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

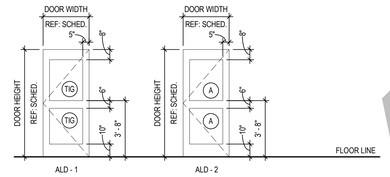
Enlarged Interior/Exterior Elevations & Schedule

A6.10



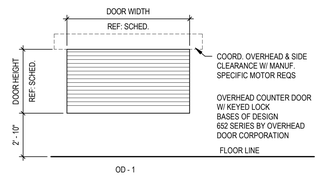
ALUMINUM FRAME TYPE

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



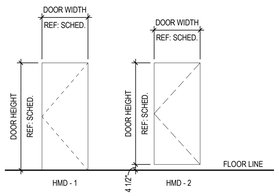
ALUMINUM DOOR TYPES

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



OVERHEAD COILING DOOR TYPE

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



HOLLOW METAL DOOR TYPES

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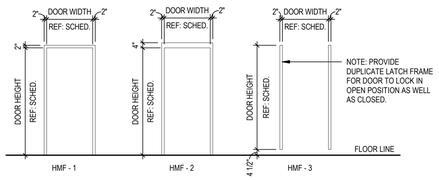


HOLLOW METAL FRAME TYPES

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

DOOR SCHEDULE

DOOR NO.	PAIR WIDTH	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	FIRE RATING	ADA OPERATOR	CARD READER	DELAYED EGRESS	HOLD OPEN	MAGNETIC LOCK	SOUND SEALS	HARDWARE	REMARKS
100	6' - 0"	3' - 0"	8' - 0"	ALD-1	PREFIN	ALF-4	PREFIN								2.0	3
101A		3' - 0"	7' - 10"	HMD-1	HPC-2	HMF-1	HPC-2								5.0	
101B		5' - 6"	4' - 4"	OD-1	PREFIN	-	PREFIN								1.0	1
102		5' - 4"	9' - 7 1/2"	HMD-2	HPC-2	HMF-3	HPC-2								4.0	3
103		3' - 0"	7' - 0"	HMD-1	HPC-2	HMF-2	HPC-2								8.0	2
104		3' - 0"	7' - 10"	HMD-1	HPC-2	HMF-1	HPC-2								7.0	
105A		3' - 0"	7' - 10"	HMD-1	HPC-2	HMF-1	HPC-2								6.0	
105B	6' - 0"	3' - 0"	8' - 0"	ALD-2	PREFIN	ALF-1	PREFIN								3.0	3
106		3' - 0"	7' - 10"	HMD-1	HPC-2	HMF-1	HPC-2								7.0	
107		5' - 4"	9' - 7 1/2"	HMD-2	HPC-2	HMF-3	HPC-2								4.0	3

DOOR SCHEDULE REMARKS

NO.	DOOR REMARKS
1	JAMB MOUNTED
2	SMOKE SEAL
3	CONTINOUS HINGE

DOOR & FRAME TYPE GENERAL NOTES

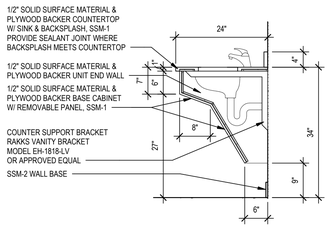
1. PROVIDE SAFETY GLAZING OR FIRE-PROTECTION-RATED GLAZING IN LOCATIONS REQUIRED BY CURRENT LOCAL CODE. NOTIFY ARCHITECT OF CHANGES REQUIRED TO THE DRAWINGS. PROVIDE OBSCURE GLAZING AS INDICATED.
2. PROVIDE AND INSTALL SAFETY GLAZING IN LOCATIONS AS PER SECTION 2406 & 2408 OF THE 2018 INTERNATIONAL BUILDING CODE.
3. ALL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS TO BE PROVIDED BY SUPPLIER W/ ADJUSTMENTS MADE FOR INSTALLATION TOLERANCES REQUIRED. VERIFY ALL EXISTING OPENINGS PRIOR TO ORDER OF ALL NEW DOORS, DOOR FRAMES AND WINDOW FRAMES.
4. SEE FLOOR PLANS FOR DIRECTION OF DOOR SWINGS.
5. REFER TO WALL TYPE THICKNESS FOR THROAT DEPTHS OF HOLLOW METAL DOOR AND WINDOW FRAMES INSTALLED IN STEEL STUD WALLS W/ GYPSUM. HOLLOW METAL DOOR AND WINDOW FRAMES INSTALLED IN PRECAST, CAST-IN PLACE OR C.M.U. WALLS SHALL HAVE A STANDARD 6" NOMINAL THROAT DEPTH AND SHALL BE CENTERED IN THE WALL, UNLESS NOTED OTHERWISE.
6. ALL INTERIOR HOLLOW METAL DOOR FRAMES SHALL BE FILLED FULL W/ BATT INSUL. COORDINATE WITH ELECTRICAL TRADES, FINISH HARDWARE AND ELECTRONIC EQUIPMENT.
7. ALL EXTERIOR ALUMINUM WINDOW FRAMING HAVE 1" INSULATED LOW 'E' GLAZING.
8. ALL INTERIOR DOOR FRAMES OF C.M.U. WALLS BEGIN 4" FROM THE FINISH FACE OF THE ADJACENT WALLS, AND ALL INTERIOR DOOR FRAMES OF STUD WALLS W/ GYPSUM WALLS BEGIN 4" FROM THE FINISH FACE OF THE ADJACENT WALLS UNLESS OTHERWISE NOTED.
9. CURTAIN WALL WINDLOADS AND DEADLOADS ENGINEERED BY WINDOW SUPPLIER. WINDLOAD ANCHORS SUPPLIED BY WINDOW SUPPLIER. DEADLOADS TO TRANSFER TO FOUNDATION. SEE STRUCTURAL DRAWINGS FOR WINDLOAD AND DEADLOAD REQUIREMENTS. PROVIDE EXPANSION MULLIONS IN LONGER FRAMES AS REQUIRED.
10. HOLLOW METAL DOOR & FRAME FINISH SHALL BE A HIGH PERFORMANCE COATING (HPC) TO MATCH CLEAR ANODIZED ALUMINUM FRAMING.
11. MULLION LOCATIONS SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL BE REFLECTED IN THE SHOP DRAWINGS. NOTIFY ARCHITECT OF ANY CHANGES OR DEVIATIONS.
12. BORROWED LIGHT LOCATIONS SHALL BE AS INDICATED ON THE PLAN DRAWINGS AND SHALL BE REFLECTED IN THE SHOP DRAWINGS. NOTIFY ARCHITECT OF ANY CHANGES OR DEVIATIONS.

PROVIDE GLAZING PANELS AS INDICATED.

- (A) INDICATES 1" INSULATED ALUMINUM PANEL.
- (CIG) INDICATES 1" CLEAR INSULATING VISION GLASS.
- (TIG) INDICATES 1" CLEAR INSULATING TEMPERED GLASS.
- (TR) INDICATES A TRANSLUCENT INSULATING GLASS.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS



1 **SECTION**

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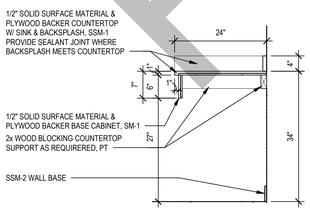

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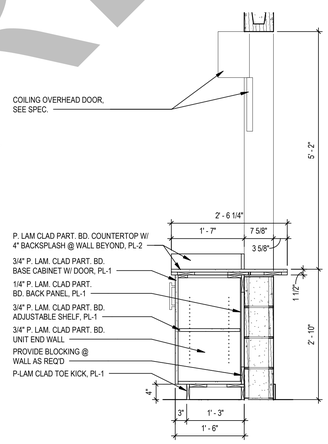

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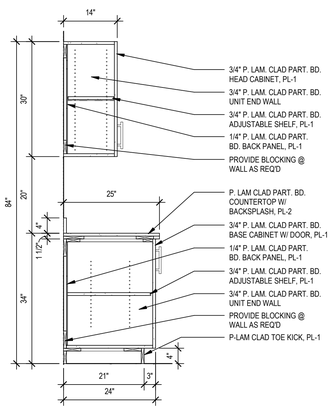

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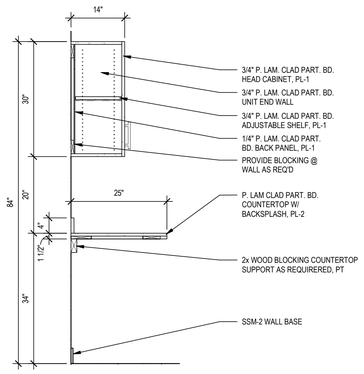

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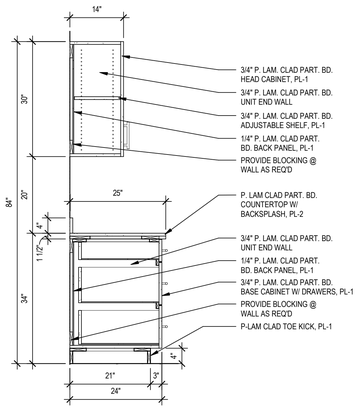


6 **SECTION**

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

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

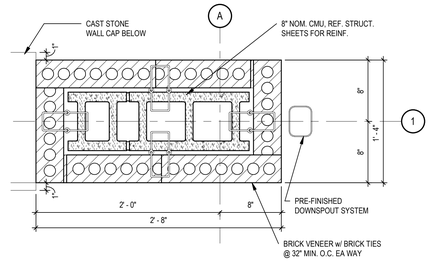
CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

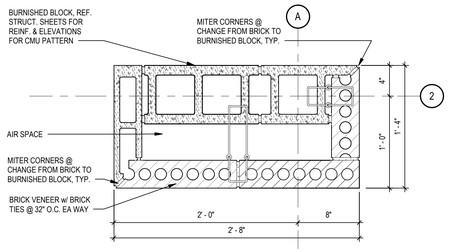
Preliminary

Door Schedule, Door Types, Frame Types & Casework Sections

A6.40



1 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



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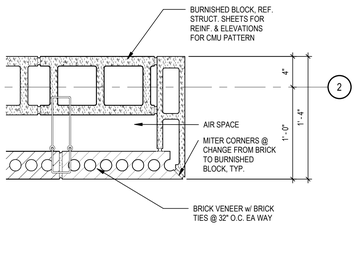

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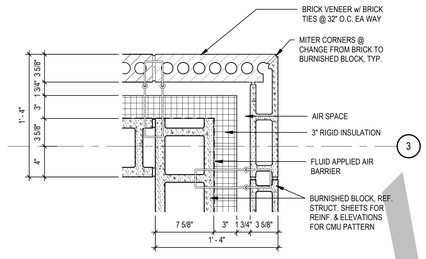
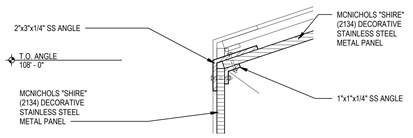
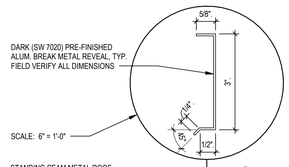
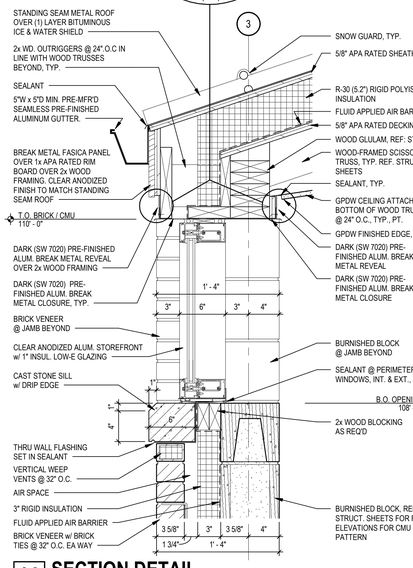


4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



5 SECTION DETAIL
SCALE: 3" = 1'-0"





10 SECTION DETAIL
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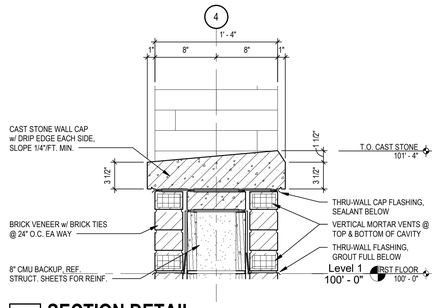
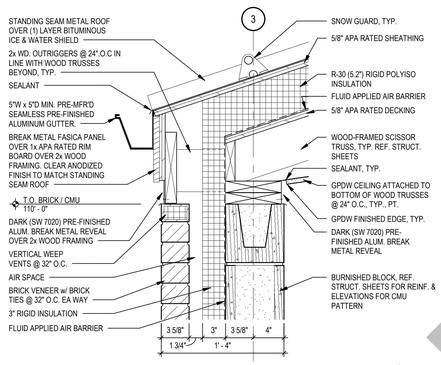
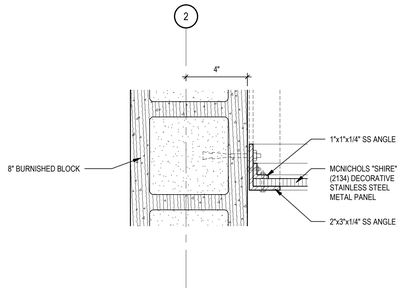


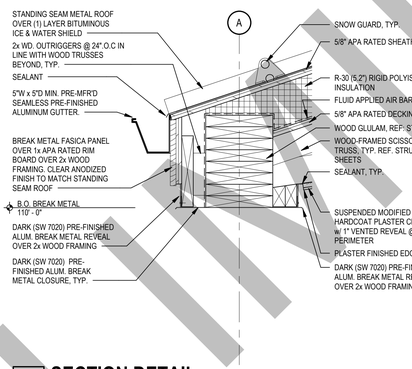
6 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



11 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



7 PLAN DETAIL
SCALE: 3" = 1'-0"



12 SECTION DETAIL
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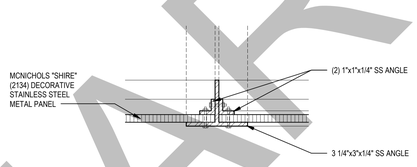
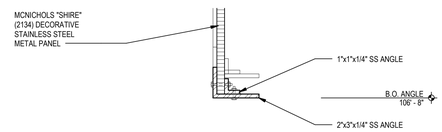


8 PLAN DETAIL
SCALE: 3" = 1'-0"



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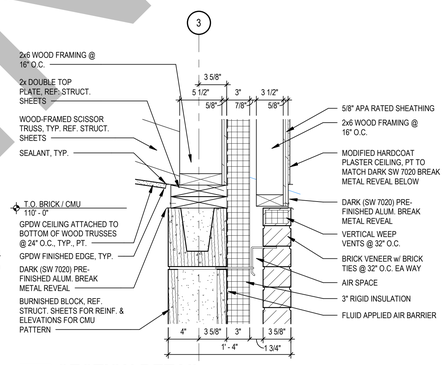
SCALE: 3" = 1'-0"



13 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

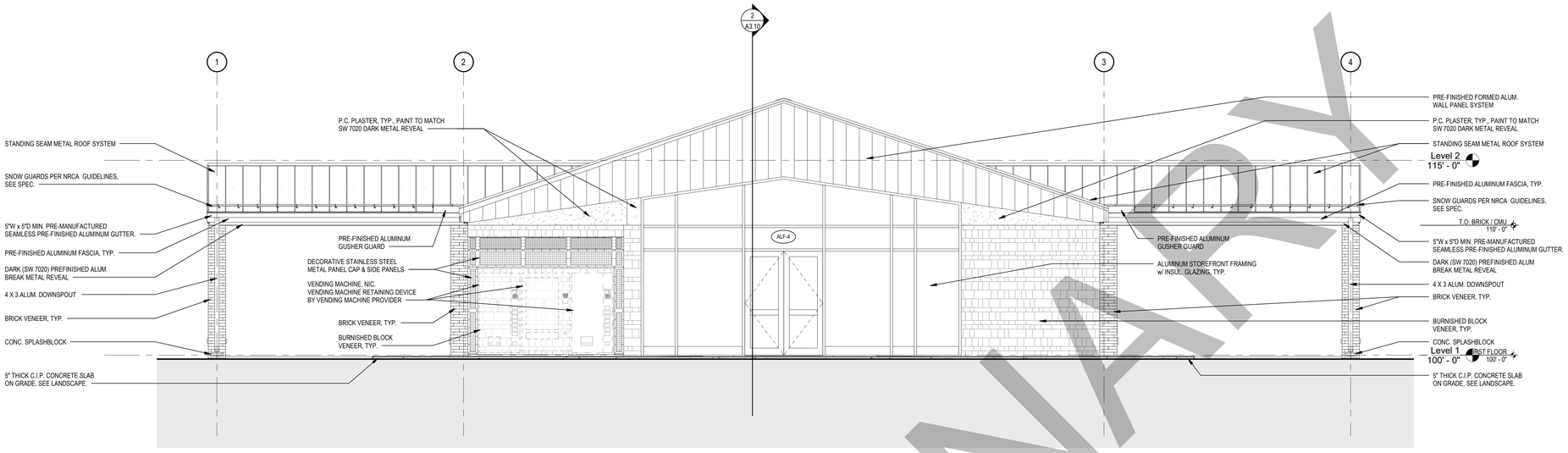
CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

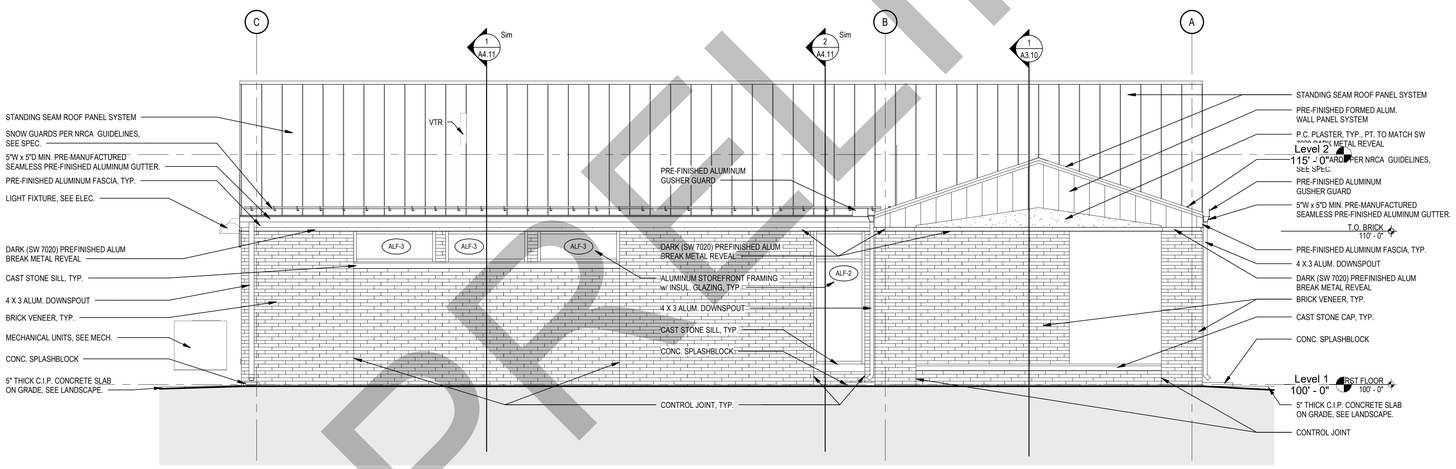
Plan and Section Details

A7.10



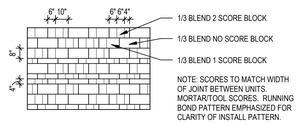
1 EAST ELEVATION

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



2 SOUTH ELEVATION

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



3 CMU Pattern

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

EXTERIOR MATERIALS KEY

BRICK	ENDICOTT - 2 1/4" MERIDIAN - 1/3 RUNNING BOND - REF. SPEC FOR BLEND
BURNISHED CMU	COUNTY MATERIALS - COLOR TBD - BLEND OF NOM. 8" & 4" TALL UNITS w/ SCORING - REF: DETAIL 3, SHEET A2.10
PLASTER	WHITE FOR CEILING APPLICATION, SW 7020 BLACK FOX FOR WALL APPLICATION
CAST STONE	SEE SPEC.
METAL ROOF	STANDING SEAM METAL ROOFING PANELS. SEE SPEC.
FORMED METAL PANEL	PREFINISHED FORMED METAL WALL PANELS. SEE SPEC

NOTE: MATERIALS LISTED ARE BASIS OF DESIGN, REFER SPEC. FOR APPROVED ALTERNATES

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

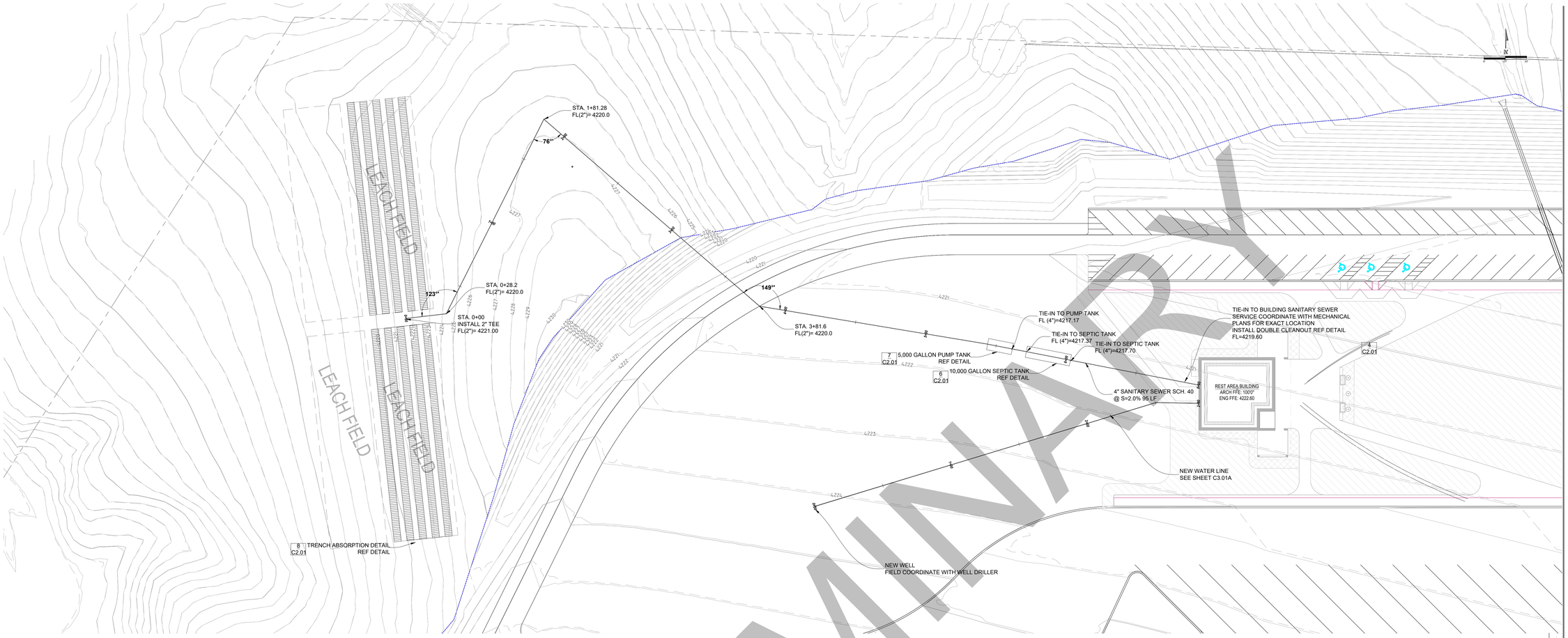
May 15, 2023

Preliminary

East and South Exterior Elevations

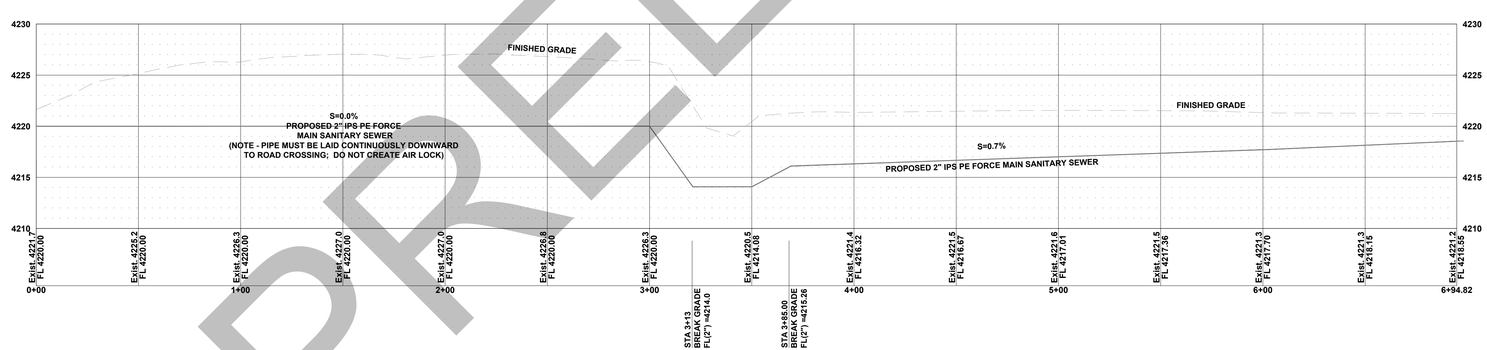
A2.10

Plot Time Stamp: 5/16/2023 11:57:12 AM
File Location/Name: C:\(1) Revit Projects\2022\508020-SRSWB-A22_vaughn.kelso@clarkenersen.com.rvt



GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO ALL CHAPTERS OF TITLE 124 - RULES AND REGULATIONS FOR THE DESIGN, OPERATION AND MAINTENANCE OF ON-SITE WASTEWATER TREATMENT SYSTEMS
2. MINIMUM DOSING VOLUME IS 420 GALLONS AND THE MAXIMUM IS 1,500 GALLONS.
3. DESIGN DATA:
   10,000 GPD;
   15 MIN/INCH PERCOLATION RATE UTILIZING SANDY LOAM LINER



CONSTRUCTION DOCUMENT

Sidney West Bound Rest Area

Sidney, Nebraska

TCEP No.: 508-015-17
NDOT No.: NH-80-2(92)
Control No.: 51276A

PROFESSIONAL CIVIL ENGINEER
DAVID A. BURKLUND
E-10209
4/13/23
STATE OF NEBRASKA

NE-DIGGERS.COM
CONTACTOR SHALL CONTACT DIGGERS HOTLINE OF NEBRASKA PRIOR TO ANY EXCAVATION.

CONTRACTOR SHALL EXERCISE EVERY PRECAUTION TO PREVENT DAMAGE TO ANY PUBLIC OR PRIVATE UTILITY LINE OR APPURTENANCE AND SHALL BE LIABLE FOR ANY DAMAGE INCURRED AS A RESULT OF HIS OPERATIONS. ALL UTILITIES SHALL BE ADEQUATELY NOTIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. SERVICE CONNECTIONS ARE NOT SHOWN EXCEPT AS NOTED. EXISTING UTILITIES SIZES AND LOCATION BOTH HORIZONTAL AND VERTICAL ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION BY THE CONTRACTOR.

Sanitary Sewer
Plan & Profiles
C1.01A

Plot Time Stamp: 5 / 15 / 2023 7:23:59 PM
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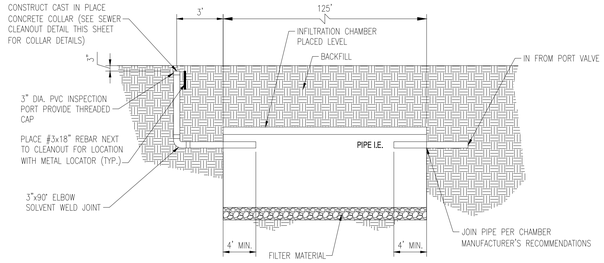
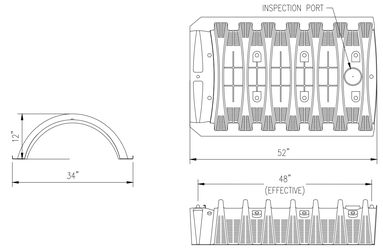
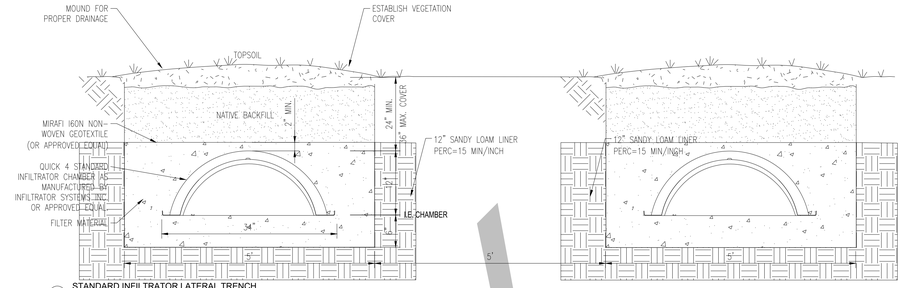


1 GRAVITY LATERAL- LONGITUDINAL SECTION
NO SCALE



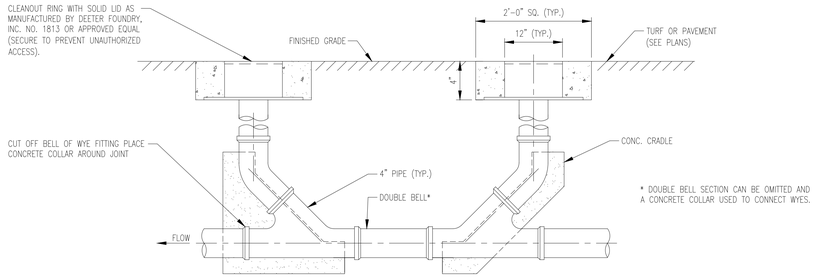
2 STANDARD INFILTRATOR LATERAL CHAMBER
NO SCALE



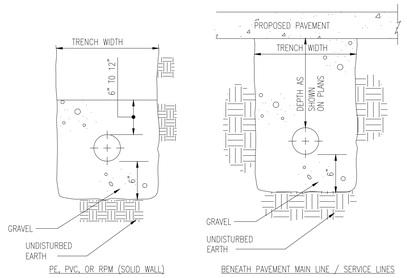
3 STANDARD INFILTRATOR LATERAL TRENCH
NO SCALE

NOTES:

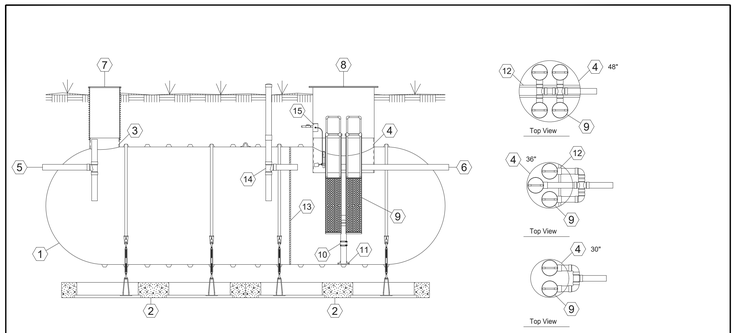
A. TRENCH WIDTH: MINIMUM = PIPE O.D. PLUS 1'-4", MAXIMUM = PIPE O.D. PLUS 2'-0".



4 DOUBLE CLEANOUT
NO SCALE



5 PIPE BEDDING
NO SCALE

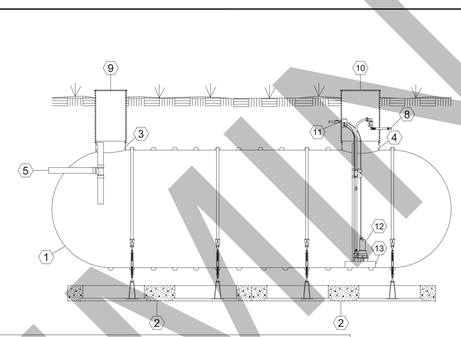


NO.	DESCRIPTION
1	SINGLE WALL FRP TANK
2	PRECAST DEADMAN SYSTEM W/ HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY
3	24" FRP OPENING
4	30", 36" OR 48" FRP OPENING
5	4" SCH. 40 PVC INLET PIPING W/ SANITARY TEE
6	4" SCH. 40 PVC OUTLET STRAIGHT PIPE
7	24" RIBBED PVC RISER W/ FRP LID
8	30", 36" OR 48" FRP RISER W/ FRP LID
9	MULTIPLE EFFLUENT FILTER SYSTEM W/ LEVEL CONTROL FLOAT ASSEMBLY, 12" FILTERS or approved equal (10,000 gpd)
10	FLEX CONNECTOR
11	BASE MOUNTING BRACKET
12	MULTIPLE EFFLUENT FILTER SYSTEM SUPPORT RAILS
13	FULL BAFFLE WALL W/ CROSSOVER HOLE
14	4" SCH. 40 PVC CROSSOVER PIPING W/ SANITARY TEE & UP PIPE WITH CAP
15	PVC SPLICE BOX W/ CORD GRIPS

Note: Septic system, tanks, and appurtenances may have copyright or patent considerations. The septic tank, pump tank, and filters shown are for informational purposes. Equal equipment shall be approved during submittal process.

TITLE
LARGE COMMERCIAL SEPTIC TANK
GRAVITY W/ FILTERS
DUAL COMPARTMENT

6 SEPTIC TANK
NO SCALE

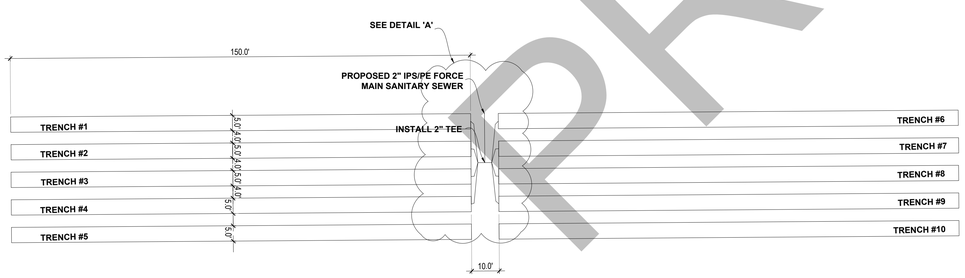


NO.	DESCRIPTION
1	SINGLE WALL FRP TANK
2	PRECAST DEADMAN SYSTEM W/ HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY
3	24" FRP OPENING
4	30" FRP OPENING
5	4" SCH. 40 PVC INLET PIPING W/ SANITARY TEE
6	NOT USED
7	NOT USED
8	EFFUENT DISCHARGE
9	24" RIBBED PVC RISER W/ FRP LID
10	30" RIBBED PVC RISER W/ FRP LID
11	PVC SPLICE BOX W/ CORD GRIPS
12	BASE MOUNTED EFFLUENT PUMP W/ LEVEL CONTROL FLOAT ASSEMBLY
13	24" x 24" FRP PUMP PLATFORM

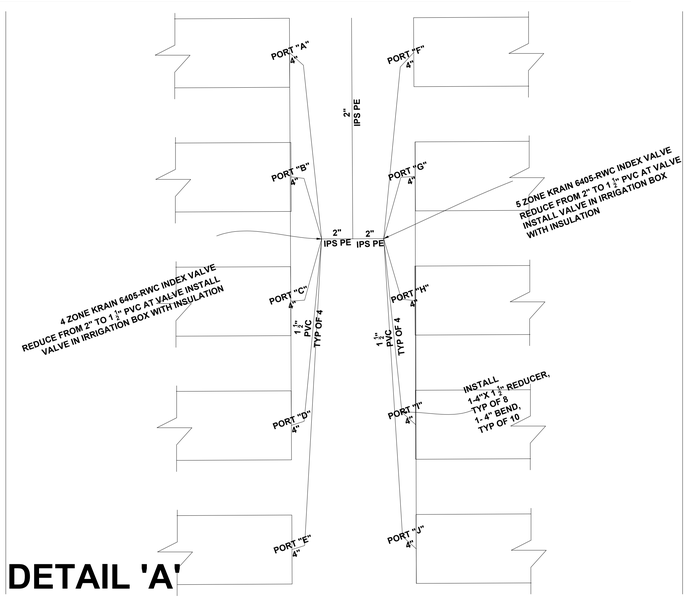
Note: Septic system, tanks, and appurtenances may have copyright or patent considerations. The septic tank, pump tank, and filters shownare for informational purposes. Equipment shall be approved during submittal process.

TITLE
SMALL COMMERCIAL SEPTIC TANK
BASE MOUNTED PUMP W/ FILTER

7 PUMP TANK
NO SCALE



8 TRENCH ABSORPTION DETAIL
NO SCALE



DETAIL 'A'

Note: All septic system components and fasteners shall be plastic or stainless steel and approved for wastewater applications.

SET INDEXING VALVES SO PAIRED DRAINFIELD RUNS OPERATE AT SAME TIME.; A&F, B&G, C&H, B&I, E&J.

CONSTRUCTION DOCUMEN

Sidney West Bound Rest Area

Sidney, Nebraska

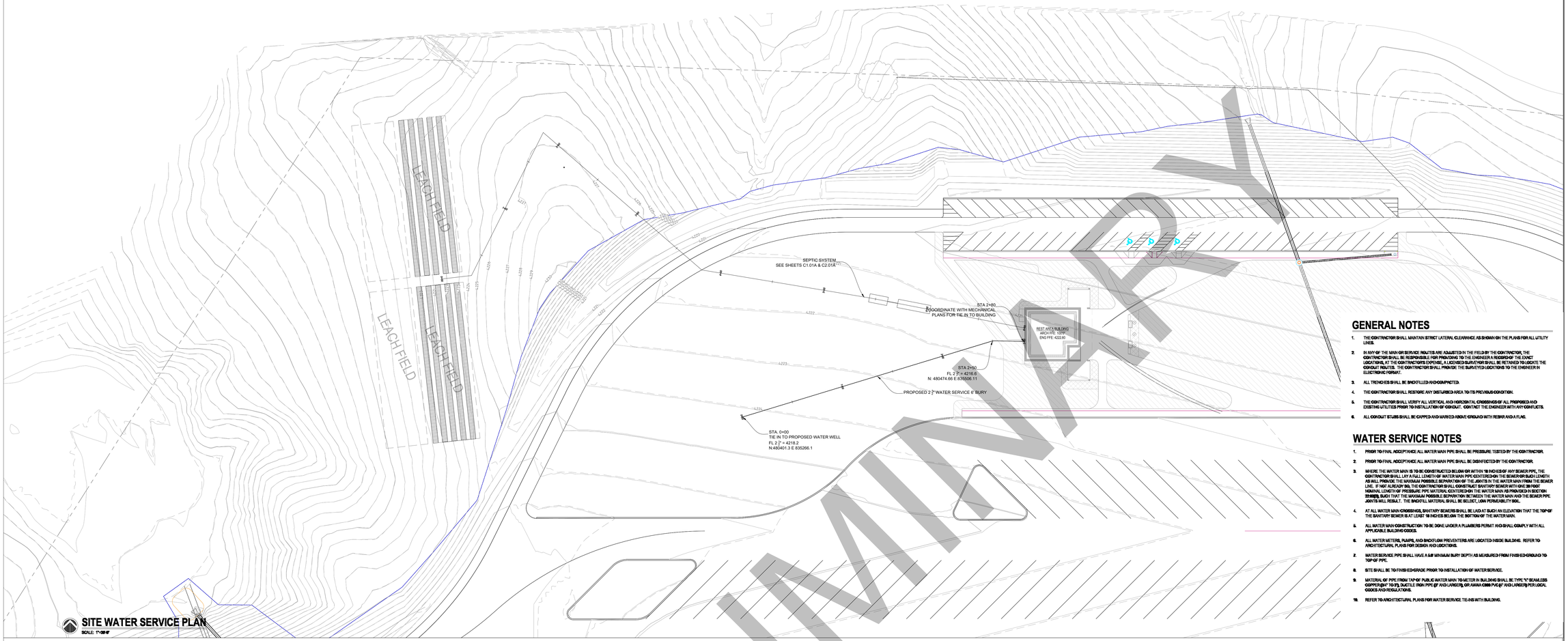
TCEP No.: 508-015-17
NDOT No.: NH-80-2(92)
Control No.: 51276A

PROFESSIONAL CIVIL ENGINEER
MARK D. MOLLER
E-10309
STATE OF NEBRASKA

Preliminary

Sanitary Sewer
Plan & Profiles
C2.01A

Plot Time Stamp: 5 / 15 / 2023 7:24:04 PM
File Location/Name:



SITE WATER SERVICE PLAN

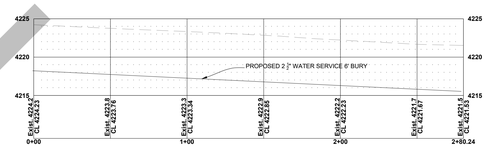
SCALE: 1"=20'-0"

GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
2. IN ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTORS EXPENSE, A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE CONDUIT ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT.
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED.
4. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
5. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.
6. ALL CONDUIT STUBS SHALL BE CAPPED AND MARKED ABOVE GROUND WITH REBAR AND A FLAG.

WATER SERVICE NOTES

1. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR.
2. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR.
3. WHERE THE WATER MAIN IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER MAIN PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER MAIN FROM THE SEWER LINE. IF NOT ALREADY SO, THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER WITH ONE 20-FOOT NOMINAL LENGTH OF PRESSURE PIPE MATERIAL CENTERED ON THE WATER MAIN AS PROVIDED IN SECTION 2.09.B, SUCH THAT THE MAXIMUM POSSIBLE SEPARATION BETWEEN THE WATER MAIN AND THE SEWER PIPE JOINTS WILL RESULT. THE BACKFILL MATERIAL SHALL BE SELECT, LOW PERMEABILITY SOIL.
4. AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN.
5. ALL WATER MAIN CONSTRUCTION TO BE DONE UNDER A PLUMBERS PERMIT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
6. ALL WATER METERS, PUMPS, AND BACKFLOW PREVENTERS ARE LOCATED INSIDE BUILDING. REFER TO ARCHITECTURAL PLANS FOR DESIGN AND LOCATIONS.
7. WATER SERVICE PIPE SHALL HAVE A 6# MINIMUM BURY DEPTH AS MEASURED FROM FINISHED GROUND TO TOP OF PIPE.
8. SITE SHALL BE TO FINISHED GRADE PRIOR TO INSTALLATION OF WATER SERVICE.
9. MATERIAL OF PIPE FROM TAP OF PUBLIC WATER MAIN TO METER IN BUILDING SHALL BE TYPE "K" SEAMLESS COPPER (3/4" TO 2"), DUCTILE IRON PIPE (2" AND LARGER), OR AWWA C900 PVC (2" AND LARGER) PER LOCAL CODES AND REGULATIONS.
10. REFER TO ARCHITECTURAL PLANS FOR WATER SERVICE TIE-INS WITH BUILDING.



PROFILE

SCALE: 1"=20'-0"

CONSTRUCTION DOCUMEN

Sidney West Bound Rest Area

Sidney, Nebraska

TCEP No.: 508-015-17
NDOT No.: NH-80-2(92)
Control No.: 51276A

PROFESSIONAL CIVIL ENGINEER
BURKLUND
E-10209
4/17/23
STATE OF NEBRASKA

Potable Water
Plan & Profiles
C3.01A

Plot Time Stamp: 5 / 15 / 2023 7:24:25 PM
File Location/Name:

ELECTRICAL ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
C	SUBSCRIPT 'C' ADJACENT TO ANY DEVICE INDICATES CEILING.
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
E	SUBSCRIPT 'E' ADJACENT TO ANY DEVICE INDICATES EXISTING.
(ER)	SUBSCRIPT (ER) ADJACENT TO ANY DEVICE INDICATES EXISTING TO BE RELOCATED.
EWC	ELECTRIC WATER COOLER
F	SUBSCRIPT 'F' ADJACENT TO ANY DEVICE INDICATES FLOOR.
GFI	GROUND FAULT INTERRUPTER
H	SUBSCRIPT 'H' DENOTES HOSPITAL GRADE
HOA	HAND-OFF-AUTO
NF	NON-FUSED
NIC	NOT IN CONTRACT
OHE	OVERHEAD ELECTRICAL
OHT	OVERHEAD TELEPHONE
PVC	POLYVINYL CHLORIDE
(R)	SUBSCRIPT (R) ADJACENT TO ANY DEVICE INDICATES THE RELOCATED POSITION OF AN EXISTING DEVICE.
RGS	RIGID GALVANIZED STEEL
TR	TAMPER RESISTANT
UGE	UNDERGROUND ELECTRICAL
UGT	UNDERGROUND TELEPHONE
WG	WIRE GUARD
WP	WEATHERPROOF

LIGHTING

A	POLE MOUNTED EXTERIOR LIGHT FIXTURE. LETTER INDICATES FIXTURE AND POLE TYPE.
B	2' X 4' TROFFER RECESSED IN GRID, GWBD OR PLASTER CEILING. LETTER/NUMBER DENOTES FIXTURE TYPE.
B1	2' X 4' TROFFER RECESSED IN GRID, GWBD OR PLASTER CEILING, WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE.
C	1' X 4' TROFFER RECESSED IN GRID, GWBD OR PLASTER CEILING. LETTER/NUMBER DENOTES FIXTURE TYPE.
C1	1' X 4' TROFFER RECESSED IN GRID, GWBD OR PLASTER CEILING, WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE.
D	2' X 2' TROFFER. LETTER/NUMBER DENOTES FIXTURE TYPE.
D1	2' X 2' TROFFER WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE.
F	2' X 4' SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
F1	2' X 4' SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
G	SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT
G1	SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT . LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
H	2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
H1	2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
K	WALL MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
K1	WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT
L	STRIP FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
L1	STRIP FIXTURE WITH EMERGENCY BATTERY BATTERY BACK-UP. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT
N	RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND MOUNTING HEIGHT.
N1	RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND HEIGHT.
P	WALL MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT.
P1	WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT.
	BATTERY POWERED EMERGENCY LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE ON DRAWINGS FOR FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
	WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. REFER TO FIXTURE SCHEDULE FOR FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)
	CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. REFER TO FIXTURE SCHEDULE FOR FIXTURE TYPE. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)

ELECTRICAL DISTRIBUTION

S	SINGLE POLE SWITCH
S_3	THREE WAY SWITCH
S_D	DIMMER SWITCH
S_{MC}	MOMENTARY CONTACT SWITCH
S_{TE}	THERMAL ELEMENT SWITCH
S_O	OCCUPANCY SENSING SWITCH (SEE SPECIFICATION)
	20A, 125V DOUBLE DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)
	20A, 125V DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)
	20A, 125V SIMPLEX OUTLET (NEMA 5 - 20R)
	20A, 125V RED DUPLEX CONVENIENCE OUTLET ON EMERGENCY SYSTEM (NEMA 5 - 20R)
	20A, 125V DUPLEX CONVENIENCE OUTLET - CEILING AND FLOOR MOUNTED (NEMA 5 - 20R)
	SPECIAL PURPOSE OUTLET, TYPE AS NOTED ON DRAWINGS.
	PIGTAIL DENOTES CONNECTION TO EQUIPMENT
J	JUNCTION BOX - CEILING, FLOOR, AND WALL MOUNTING
	FLOOR BOX
	2 GANG TELECOMMUNICATIONS OUTLET BOX WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. ROUTE (1) 1" CONDUIT FROM BOX AND STUB INTO THE MAINTENANCE ROOM.
	TELEPHONE TERMINAL BOARD OR TERMINAL CABINET - SIZE AND TYPE AS INDICATED (ITB OR TTC).
	BRANCH CIRCUIT HOMERUN TO PANEL (NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES) (NUMBER 12AWG, MINIMUM, UNLESS OTHERWISE NOTED). IF NO TICK MARKS ARE SHOWN, ASSUME 3- NUMBER 12 AWG IN 1/2" CONDUIT.
	CONDUIT AND WIRE CONCEALED. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES (NUMBER 12AWG MIN, UNLESS OTHERWISE NOTED) IF NO TICK MARKS ARE SHOWN, ASSUME 3-NUMBER 12 IN 1/2" CONDUIT.
	CONDUIT RISER UP
	CONDUIT RISER DOWN
	INDICATES BUSH AND CAP
	CONDUIT SEAL FITTING FOR HAZARDOUS AREAS
	CONDUIT STUBBED UP 6" AFF AND CAPPED

ELECTRICAL DISTRIBUTION EQUIPMENT

	LIGHTING AND APPLIANCE PANEL
	(LIGHTING) RELAY PANEL
	MOTOR CONTROL CENTER OR SWITCHBOARD
	POWER PANEL (DISTRIBUTION)
T	TRANSFORMER
	CIRCUIT BREAKER
	FUSIBLE SWITCH
	AUTOMATIC TRANSFER SWITCH
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	GROUND
G	ENGINE GENERATOR
RGA	REMOTE GENERATOR ANNUNCIATOR
M	METER
PNL #	PANELBOARD TAG. SEE THE CORRESPONDING PANELBOARD SCHEDULE AND/OR ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

FIRE ALARM

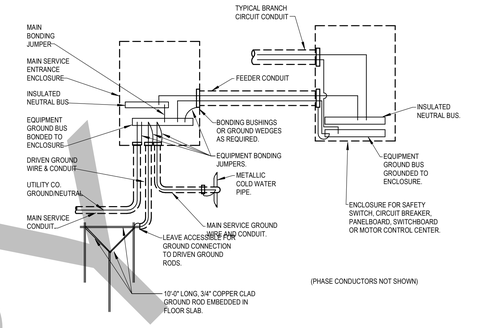
	SMOKE DETECTOR

MOTOR CONTROL & MOTOR CONTROL EQUIPMENT

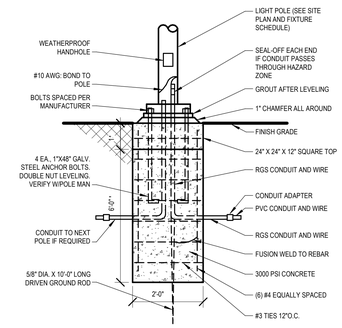
M	MOTOR - HORSEPOWER AS INDICATED ON DRAWINGS
	NON-FUSED DISCONNECT SWITCH, ASSUME 30A/3P UNLESS OTHERWISE NOTED.
	FUSED DISCONNECT SWITCH. FUSE SIZE AS NOTED ON DRAWINGS, ASSUME 30A/3P UNLESS OTHERWISE NOTED.
	COMBINATION FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH AND NON-FUSED DISCONNECT SWITCH, ASSUME NEMA SIZE 1 STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED.
	COMBINATION MOTOR STARTER/DISCONNECT PROVIDED BY OTHERS.
	COMBINATION FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH AND FUSED DISCONNECT SWITCH. ASSUME NEMA SIZE 1 STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED.
	FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH, ASSUME NEMA SIZE 1 STARTER UNLESS OTHERWISE NOTED.
	START/STOP PUSH BUTTON
	3 POSITION PUSH BUTTON
	PUSH BUTTON

SPECIAL SYSTEMS

C	CLOCK AND CLOCK HANGER OUTLET
E C	ELAPSED TIME INDICATOR CLOCK
CMC	CLOCK MASTER CONTROL
CS	CLOCK SYSTEM SIGNAL GENERATOR
	CCTV CAMERA
CC	CCTV CAMERA OUTLET
CM	CCTV MONITOR AND OUTLET
VC	VIDEO CONFERENCING OUTLET
CM	CCTV MONITOR OUTLET
TV	2 GANG TV OUTLET BOX WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
S	INTERCOM/PUBLIC ADDRESS SPEAKER - SURFACE MOUNTED
S	INTERCOM/PUBLIC ADDRESS SPEAKER - WALL MOUNTED
S	INTERCOM/PUBLIC ADDRESS SPEAKER - RECESSED
P	PUBLIC ADDRESS TRUMPET
VC	VOLUME CONTROL FOR SPEAKER
SDR	SOUND DISTRIBUTION RACK
M	MICROPHONE
CR	SECURITY SYSTEM CARD READER AND OUTLET BOX
EL	ELECTRIC DOOR LOCK
DM	DOOR MONITOR SWITCH
SSA	SECURITY SYSTEM ANNUNCIATOR
M H	INTERCOM MASTER - WALL WITH HANDSET
M H	INTERCOM MASTER - DESK WITH HANDSET
IC	INTERCOM PUSHBUTTON STATION



SERVICE ENTRANCE GROUND CONNECTIONS DETAIL



POLE BASE DETAIL NOTES:

1. FULLY COORDINATE INSTALLATION DETAILS WITH POLE MANUFACTURER.

POLE BASE DETAIL

PROJECT GENERAL ELECTRICAL NOTES

GENERAL LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.

2. COORDINATE THE INSTALLATION OF LIGHTING FIXTURES WITH ALL OTHER TRADES.

3. COORDINATE THE INSTALLATION OF ALL RECESSED LIGHTING FIXTURES WITH ACTUAL CEILING TYPES. REFER TO ARCHITECTURAL FINISH SCHEDULES FOR ADDITIONAL DETAILS.

4. SUPPORT ALL RECESSED AND PENDANT MOUNTED FIXTURES FROM STRUCTURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. SUSPENDED CEILING MOUNTING SYSTEMS SHALL NOT BE USED TO SUPPORT FIXTURES OR RACEWAYS.

5. ROUTE ALL WIRE AND CONDUIT CONCEALED UNLESS OTHERWISE NOTED. PATCH ALL EXISTING SURFACES AFTER WIRE AND CONDUIT INSTALLATION, AS REQUIRED. REFER TO THE SPECIFICATION FOR CUTTING AND PATCHING REQUIREMENTS. ALL COSTS ASSOCIATED WITH ABOVE REQUIREMENTS MUST BE INCLUDED IN THE PROJECT BID.

6. FLUSH MOUNT ALL NEW WIRING DEVICES IN NEW OR EXISTING SURFACES. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

7. LOCATE PHOTOCELL DEVICES FOR CONTROL OF EXTERIOR LIGHTING FIXTURES, ON THE ROOF AT A LOCATION WHICH CANNOT BE SEEN FROM GRADE LEVEL. PROVIDE WP DEVICES AND BOXES.

8. BOX AROUND RECESSED LIGHTING FIXTURES AS REQUIRED SO THAT ALL CODE REQUIRED CLEARANCES BETWEEN COMBUSTIBLE MATERIALS, THERMAL INSULATION, ETC AND LIGHTING FIXTURES ARE MAINTAINED. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.

9. PROVIDE ENCLOSURES OVER RECESSED LIGHTING FIXTURES INSTALLED IN RATED CEILINGS SO ALL CODE REQUIRED RATINGS ARE MAINTAINED. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND RATINGS. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.

10. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS, AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

11. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

12. ALL LIGHT FIXTURES SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GENERAL POWER & AUXILIARY SYSTEMS NOTES:

1. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES.

2. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUIT IS TO BE ROUTED CONCEALED. FULLY COORDINATE INSTALLATION WITH EXISTING CONDITIONS, AND INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.

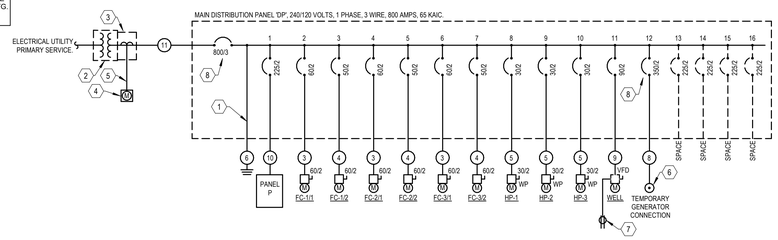
3. FULLY COORDINATE THE LOCATION OF ALL HVAC EQUIPMENT WITH THE MECHANICAL AND CONTROLS CONTRACTORS. PROVIDE ALL DEVICES (I.E. STARTERS, SWITCHES, CONTACTS, ETC.) REQUIRED TO ENSURE SATISFACTORY OPERATION OF ALL SYSTEMS AND EQUIPMENT. (CONTROL WIRING TO BE PROVIDED BY MECHANICAL CONTRACTOR.) COORDINATE DEVICE REQUIREMENTS WITH ACTUAL EQUIPMENT.

4. FOR ALL HVAC CONTROL DEVICES PROVIDED BY THE ELECTRICAL CONTRACTOR; PROVIDE ALL NECESSARY AUXILIARY COMPONENTS AND CONTACTS TO ENSURE PROPER SYSTEM CONTROL FUNCTIONS. FULLY COORDINATE ALL REQUIREMENTS WITH THE MECHANICAL AND CONTROLS CONTRACTORS.

5. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

LIGHTING FIXTURE SCHEDULE

Fixture Type	Manufacturers	Catalog Numbers	Description	Lamp Type	Volt	VA	Mounting	Remarks
A	MARK LIGHTING	SL4L-LOP-4FT/6FT/8FT/10FT/20FT-FLP-WFL-80CRI-35K-400LMF-NODIM-120-BAA	RECESSED LINEAR FIXTURE	LED	120	16,24,32,40,80	RECESSED	PROVIDE FIXTURES IN LENGTHS INDICATED ON THE PLANS. SEE THE ARCHITECTURAL SHEETS FOR CEILING MOUNTING DETAILS. PROVIDE EMERGENCY BACKUP FOR FIXTURE TYPE 'A1'.
B	MARK LIGHTING	S4LWID-LLP-8FT/12FT/20FT-MSL8/MSL6/MSL5-80CRI-35K-400LMF-I80CRI-I35K-I600LMF-NODIM-120-WHT-BAA	WALL MOUNT LINEAR FIXTURE	LED	120	32,48,80	SURFACE	SURFACE MOUNT FIXTURE AT 9'-0" AFF. PROVIDE FIXTURES IN LENGTHS SHOWN ON THE PLANS. PROVIDE FIXTURE TYPE 'B1' WITH EMERGENCY DRIVER.
C	LITHONIA	BLWP4-30L-ADP-MVOLT-EZ1-LP835-BAA	4' INDUSTRIAL FIXTURE	LED	UNV	25	PENDANT	PENDANT MOUNT FIXTURE AS HIGH AS POSSIBLE. PROVIDE EMERGENCY BACKUP FOR TYPE 'C1' FIXTURES.
D	LITHONIA	WDGE2LED-P2-40K-80CRI-T3M-MVOLT-E20WC-BAA-DBLXD	WALL MOUNTED FIXTURE	LED	UNV	24	WALL MOUNT	WALL MOUNT FIXTURE AT 10'-6" AFG UNLESS OTHERWISE NOTED.
EXIT	LITHONIA	LE-S-W-1-R-EL N-SD-BAA	EXIT FIXTURE	LED	120	5	SURFACE	SEE THE DRAWINGS FOR EXACT MOUNTING TYPE/ HIEGHT.
G	LITHONIA	LDN4SQ-40/30-LS4-WR-LSS-MVOLT-BAA	SQUARE RECESSED DOWNLIGHT	LED	UNV	33	RECESSED	
S	INVUE	MSA-E02-LED-E1-T2-AP 12' ROUND POLE	POLE MOUNTED PEDESTRIAN FIXTURE	LED	120	52	POLE MOUNTED	SEE THE POLE BASE DETAIL FOR ADDITIONAL INFORMATION.
T	LITHONIA	DSXF1 LED, P1-40K-MSP-MVOLT-THK-UBV-DBLXD	WALL MOUNTED FLOOD LIGHT	LED	UNV	21	SURFACE	MOUNT FIXTURE TO WEATHRPROOF JUNCTION BOX ON SEAT WALL. FIELD AIM FIXTURE TO ILLUMINATE THE FLAG. MOUNT FIXTURE 12" AFG.



ONE LINE DIAGRAM NOTES

KEY NOTE	DESCRIPTION
1	GROUND SERVICE IN ACCORDANCE WITH NEC REQUIREMENTS AND THE GROUNDING RISER DIAGRAM.
2	UTILITY COMPANY PROVIDED AND INSTALLED PAD-MOUNTED TRANSOFRMER. COORDINATE ALL SERVICE REQUIREMENTS WITH THE UTILITY COMPANY AND PROVIDE ALL NECESSARY MATERIALS AND LABOR AS NECESSARY FOR ELECTRICAL SERVICE.
3	CT CABINET. COORDINATE REQUIREMENTS WITH THE UTILITY COMPANY.
4	UTILITY COMPANY METER. COORDINATE REQUIREMENTS WITH THE UTILITY COMPANY.
5	1" CONDUIT BETWEEN CT AND METER.
6	APPLETON POWERTITE RECEPTACLE (AJAA0023-400) PROVIDE WITH PLUG APPLETON POWERTITE (AP40023E).
7	CHEM FEED PUMP RECEPTACLE POWERED VIA 120V AUX OUTPUT OF WELL VFD.
8	PROVIDE SIGNAGE AT MAIN BREAKER AND EXTERIOR RECEPTACLE CIRCUIT BREAKER THAT READS "MAIN CIRCUIT BREAKER MUST BE OPEN BEFORE CLOSING OF TEMPORARY GENERATOR CONNECTION CIRCUIT BREAKER.

ONE LINE DIAGRAM

FEEDER SCHEDULE

MARK	FEEDER DESCRIPTION
1	(2) #1'S & (1) #6 GROUND IN 1 1/2" CONDUIT.
2	(2) 3/0'S & (1) #3 GROUND IN EACH OF (2) 2" CONDUIT.
3	(2) 6'S & (1) #10 GROUND IN 3/4" CONDUIT.
4	(2) #8'S & (1) #10 GROUND IN 3/4" CONDUIT.
5	(2) #10'S & (1) #10 GROUND IN 3/4" CONDUIT.
6	GROUND IN ACCORDANCE WITH THE NEC.
7	(2) 400MCM IN EACH OF (3) 3" CONDUITS.
8	(3) 500MCM & (1) #3 GROUND IN 2 1/2" CONDUIT.
9	(2) 3'S & (1) #8 GROUND IN 1" CONDUIT.
10	(3) 4/0'S & (1) #4 GROUND IN 2" CONDUIT.
11	(3) 300'S & (1) 1/0 GROUND IN EACH OF (3) 2 1/2" CONDUITS.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.:NH-80-2(92)
Control No.: 51276A
May 15, 2023

PROFESSIONAL ELECTRICAL ENGINEER
TJ SCHIRMER
E-8623
STATE OF NEBRASKA

Preliminary

Electrical Abbreviations, Symbols Legend & Electrical Details

E0.00

Plot Time Stamp: 5/15/2023 10:11:30 AM
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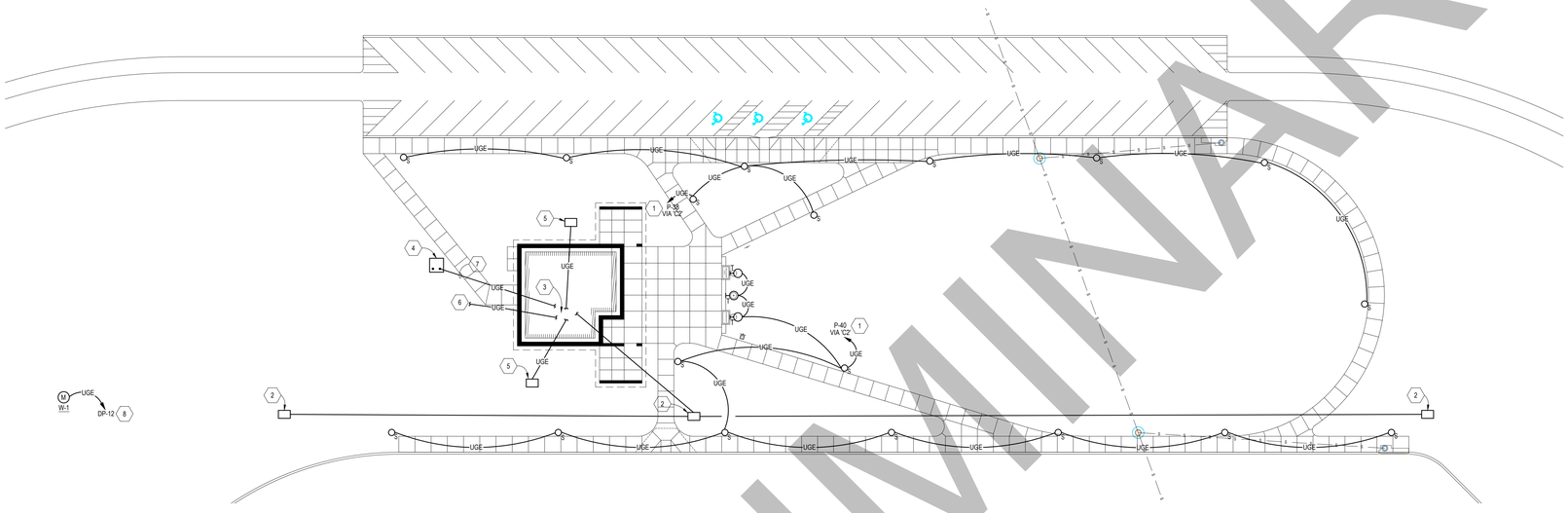

SITE ELECTRICAL UTILITIES PLAN

SCALE: 1"=30'-0"

SITE ELECTRICAL UTILITIES PLAN NOTES:

1. ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT.
2. 18"X18" IN GROUND PULL BOX. FOR CONNECTION TO OWNER PROVIDED SECURITY CAMERA SYSTEM. CONNECT EACH BOX VIA (1) 2 1/2" CONDUIT. COORDINATE EXACT LOCATIONS WITH THE OWNERS REPRESENTATIVE.
3. APPROXIMATE LOCATION OF BUILDING SERVICE ENTRANCE.
4. PAD MOUNTED UTILITY TRANSFORMER. COORDINATE WORK WITH THE UTILITY COMPANY.
5. 24"X24" IN GROUND PULL BOX. FOR CONNECTION TO PARKING LOT/ ROADWAY LIGHTING (INSTALLED AND ROUTED TO BOX BY OTHERS). CONNECT EACH LIGHTING CIRCUIT TO PANELBOARD 'P' VIA (2) #6'S & (1) #6 GROUND IN 1" CONDUIT. SEE THE LIGHTING PLAN, PANELBOARD SCHEDULE, LIGHTING CONTROL DIAGRAM AND CONTACTOR SCHEDULE FOR ADDITIONAL INFORMATION.
6. ELECTRICAL CONNECTION TO SEPTIC SYSTEM DOSING PUMPS FROM THE DOSING PUMP CONTROL PANEL. SEE THE CIVIL SHEETS AND THE POWER AND AUXILIARY SYSTEMS PLAN FOR ADDITONAL INFORMATION. PROVIDE CONNECTIONS FOR CONTROL OF THE PUMPS AND HIGH WATER LEVEL ALARM. ROUTE VIA (1) 1 1/2" CONDUIT.
7. ELECTRICAL SECONDARIES. SEE THE ELECTRICAL ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
8. COORDINATE EXACT LOCATION OF WELL WITH THE WELL SUPPLIER/ CONTRACTOR.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
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PROFESSIONAL ELECTRICAL ENGINEER
TED-A
SCHIRMER
E-8623
STATE OF NEBRASKA

Preliminary

Site Electrical Utilities Plan

E0.01

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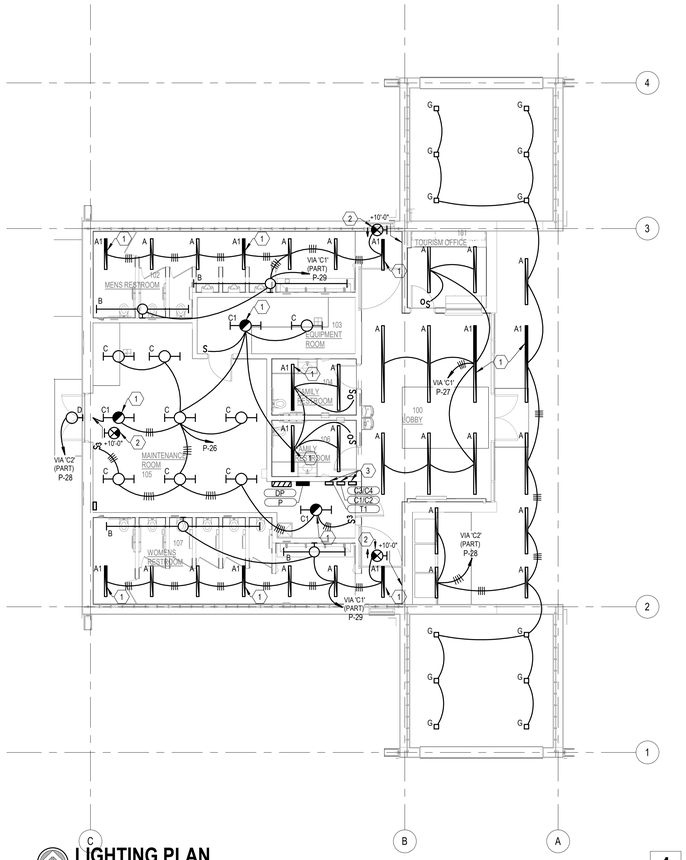
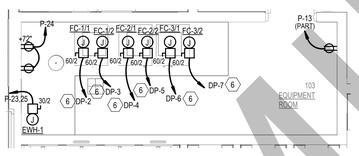


LIGHTING PLAN

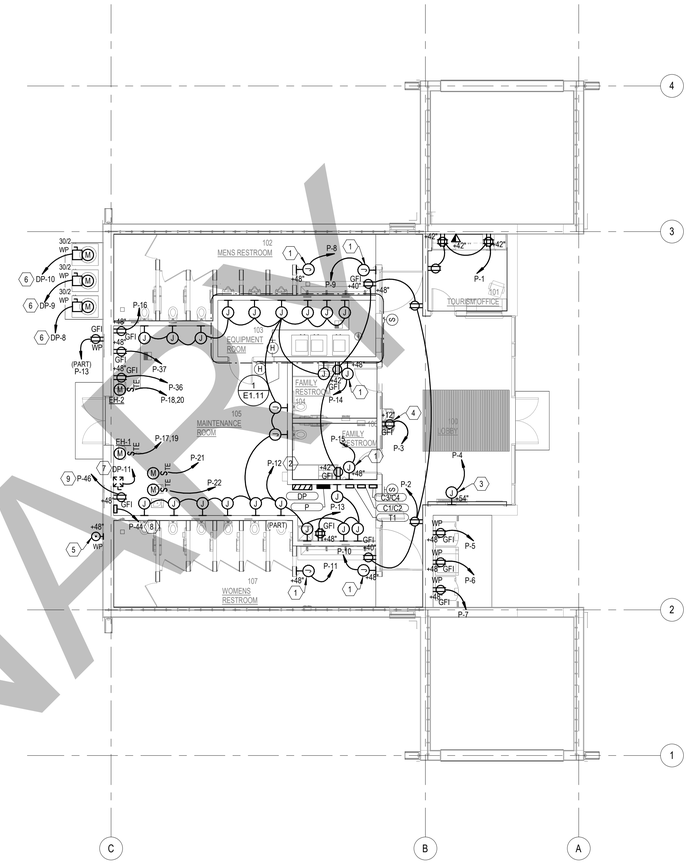
SCALE: 1/8" = 1'-0"

LIGHTING PLAN NOTES	
KEY NOTE	DESCRIPTION
1	CONNECT EMERGENCY DRIVER TO AN UNSWITCHED 'HOT' CONDUCTOR OF THE CIRCUIT INDICATED.
2	CONNECT FIXTURE TO AN UNSWITCHED 'HOT' CONDUCTOR OF THE CIRCUIT INDICATED.
3	SEE THE LIGHTING CONTACTOR SCHEDULE FOR CONTROL CIRCUIT INFORMATION.



1 ENLARGED EQUIPMENT ROOM POWER & AUXILIARY SYSTEMS PLAN

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



POWER & AUXILIARY SYSTEMS PLAN

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

POWER & AUXILIARY SYSTEMS PLAN NOTES	
KEY NOTE	DESCRIPTION
1	ELECTRICAL CONNECTION TO HAND DRYER. ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT.
2	ELECTRICAL CONNECTION TO FLUSH VALVES/ LAV FAUCETS. PROVIDE CONNECTION THOUGH WALL TO VALVE ON OTHER SIDE. COORDINATE EXACT ELEVATION AND CONNECTION DETAILS WITH THE MECHANICAL CONTRACTOR.
3	RECESSED WALL BOX (CHIEF PAC #526). PROVIDE BOX WITH (2) DUPLEX RECEPTACLES. ROUTE (2) 1" CONDUITS FROM THE BOX AND STUB INTO THE MAINTENANCE ROOM. BUSH CONDUIT ENDS.
4	ELECTRICAL CONNECTION TO WATERCOOLER. COORDINATE EXACT RECEPTACLE LOCATION WITH THE WATERCOOLER SUPPLIER/ INSTALLER.
5	TEMPORARY GENERATOR CONNECTION. SEE THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6	SEE THE ELECTRICAL ONE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZE.
7	ELECTRICAL CONNECTION TO WELL CONTRACTOR SUPPLIED VFD CONTROL. SEE THE SITE ELECTRICAL UTILITIES PLAN AND THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
8	SEPTIC SYSTEM DUPLEX DOSING PUMP CONTROL PANEL (CLARUS #10-1430). PROVIDE PANEL WITH ABILITY TO SEND HIGH WATER ALERT OUT VIA TEXT/ PHONE CALL. SEE THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
9	ELECTRICAL RECEPTACLE FOR CONNECTION TO IRRIGATION CONTROLLER.

Branch Panel: P

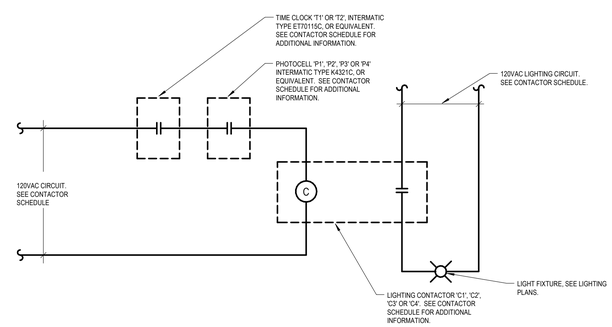
Location: MAINTENANCE ROOM 105
Supply From: DP
Mounting: SURFACE
Enclosure: LIGHTING & APPLIANCE

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 65,000
Mains Rating: 225 A
MCB Rating: Main Lug Only (MLO)

CKT	Rating	Poles	Load Name	A		B		Load Name	Poles	Rating	CKT
1	20 A	1	RCPT: OFFICE	1380 VA	1080 VA			RCPT: LOBBY	1	20 A	2
3	20 A	1	MECH: WATER COOLER			180 VA	180 VA	RCPT: LOBBY	1	20 A	4
5	20 A	1	RCPT: VENDING	180 VA	180 VA			RCPT: VENDING	1	20 A	6
7	20 A	1	RCPT: VENDING			180 VA	180 VA	MECH: MENS RESTROOM 102	1	30 A	8
9	30 A	1	MECH: MENS RESTROOM 102	180 VA	180 VA			MECH: WOMENS RR HAND DRYER	1	30 A	10
11	30 A	1	MECH: WOMENS RR HAND DRYER			180 VA	675 VA	MECH: AUTOMATIC VALVES	1	20 A	12
13	20 A	1	RPCT: MAINTENANCE	960 VA	180 VA			MECH FAMILY RR HAND DRYER	1	30 A	14
15	20 A	1	MECH: FAMILY RR HAND DRYER			180 VA	180 VA	MECH WATER SKID	1	20 A	16
17	20 A	2	EH-1	1860 VA	1860 VA			EH-1	2	20 A	18
19	--	--	--			1860 VA	1860 VA	--	--	--	20
21	20 A	1	EF-1	792 VA	792 VA			EF-1	1	20 A	22
23	20 A	2	EWH-1			90 VA	1000 VA	RCPT: HWCP	1	20 A	24
25	--	--	--	90 VA	720 VA			LTG: RR'S, MAINTENANCE	1	20 A	26
27	20 A	1	LTG: LOBBY, OFFICE			216 VA	620 VA	LTG: EXTERIOR BLDG LTS	1	20 A	28
29	20 A	1	LTG: RR'S	474 VA	0 VA			T1	1	20 A	30
31	20 A	1	LTG NW PARKING/ ROADWAY			1677 VA	1677 VA	LTG NE PARKING/ ROADWAY	1	20 A	32
33	20 A	1	LTG SW PARKING/ ROADWAY	1376 VA	1376 VA			LTG S CENTRAL PARKING/ ROADWAY	1	20 A	34
35	20 A	1	LTG SE PARKING/ ROADWAY			1376 VA	180 VA	MECH WATER SKID	1	20 A	36
37	20 A	1	MECH WATER SKID	180 VA	468 VA			LTG N PED POLES	1	20 A	38
39	20 A	1	C1			1000 VA	531 VA	LTG S PED POLES	1	20 A	40
41	20 A	1	C2	1000 VA	1000 VA			C3	1	20 A	42
43	20 A	1	C4			1000 VA	1000 VA	Lighting Relay Panel Surface	1	20 A	44
45	20 A	1	Spare	0 VA	180 VA			MECH	1	20 A	46
47	20 A	1	Spare			0 VA	0 VA	Spare	1	20 A	48
49	20 A	1	Spare	0 VA	0 VA			Spare	1	20 A	50
51	--	1	Space			--	--	Space	1	--	52
53	--	1	Space	--	--			Space	1	--	54
55	--	1	Space			--	--	Space	1	--	56
57	--	1	Space	--	--			Space	1	--	58
59	--	1	Space			--	--	Space	1	--	60
61	--	1	Space	--	--			Space	1	--	62
63	--	1	Space			--	--	Space	1	--	64
65	--	1	Space	--	--			Space	1	--	66
67	--	1	Space			--	--	Space	1	--	68
69	--	1	Space	--	--			Space	1	--	70
71	--	1	Space			--	--	Space	1	--	72
			Total Load:	16488 VA		16022 VA					
			Total Amps:	137 A		134 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RCPT	5140 VA	125.00%	6425 VA		
LTG	10511 VA	125.00%	13139 VA	**Total Conn. Load:**	27510 VA
MECH	11859 VA	100.00%	11859 VA	**Total Est. Demand:**	31423 VA
				Total Est. Demand:	131 A



LIGHTING CONTROL DIAGRAM

CONTACTOR SCHEDULE									
DESIGNATION	LOCATION	SERVES	CIRCUITS	NO. OF POLES	CONTACT RATING	COIL VOLTAGE	CONTROL CIRCUIT	CONTROLLED BY	REMARKS
C1	MAINTENANCE 105	INTERIOR LIGHTING	P-27 P-29	4	30A	120V	P-39 (T1) P-30	T1/P1	PROVIDE CONTACTOR RATED FOR CONTINUOUS DUTY OPERATION. SEE LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
C2	MAINTENANCE 105	EXTERIOR LIGHTING	P-28 P-38 P-40	4	30A	120V	P-41	T2/P2	PROVIDE CONTACTOR RATED FOR CONTINUOUS DUTY OPERATION. SEE LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
C3	MAINTENANCE 105	PARKING LOT/ ROADWAY LIGHTING NORTH	P-31 P-32	4	30A	240	P-42	P3	PROVIDE CONTACTOR RATED FOR CONTINUOUS DUTY OPERATION. SEE LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
C4	MAINTENANCE 105	PARKING LOT/ ROADWAY LIGHTING SOUTH	P-34 P-35	4	30A	240	P-43	P3	PROVIDE CONTACTOR RATED FOR CONTINUOUS DUTY OPERATION. SEE LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.

SHEET HISTORY:
ISSUED 05/15/2023 Construction Documents

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
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Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

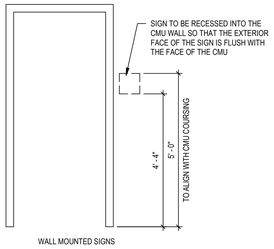
CE No.: 508-020-21
NDOT No.:NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

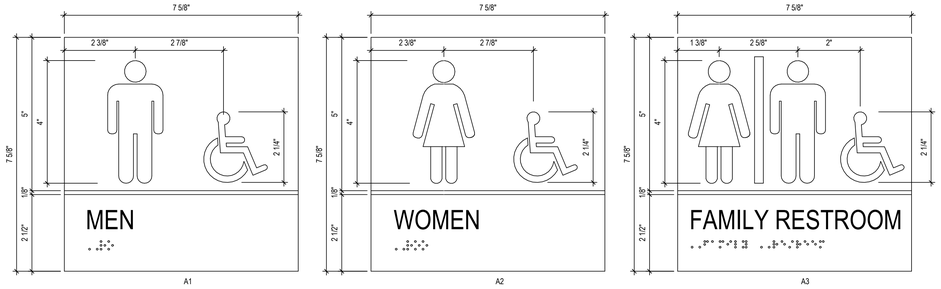
Electrical Plans

E1.11



1 MOUNTING LOCATIONS

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



ASI SIGNAGE:
BASIS OF DESIGN: ASI SIGNAGE INNOVATIONS
SIGN SERIES: INTOUCH SERIES - EXTERIOR RATED

BACKGROUND COLOR: SATIN ALUMINUM, MX-15

TEXT/GRAPHIC COLOR: MX-09

TYPESTYLE: HELVETICA MEDIUM

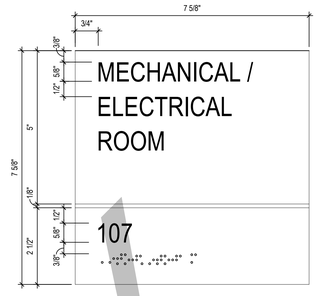
TEXT HEIGHT: 5/8"

MOUNTING METHOD: COUNTER-SUNK MECHANICAL FASTENERS

PROVIDE BRAILLE TEXT BELOW TYPE

2 RESTROOM SIGNAGE

SCALE: 6" = 1'-0"



ASI SIGNAGE:
BASIS OF DESIGN: ASI SIGNAGE INNOVATIONS
SIGN SERIES: INTOUCH SERIES - EXTERIOR RATED

BACKGROUND COLOR: SATIN ALUMINUM, MX-15

TEXT/GRAPHIC COLOR: MX-09

TYPESTYLE: HELVETICA MEDIUM

TEXT HEIGHT: 5/8"

MOUNTING METHOD: COUNTER-SUNK MECHANICAL FASTENERS

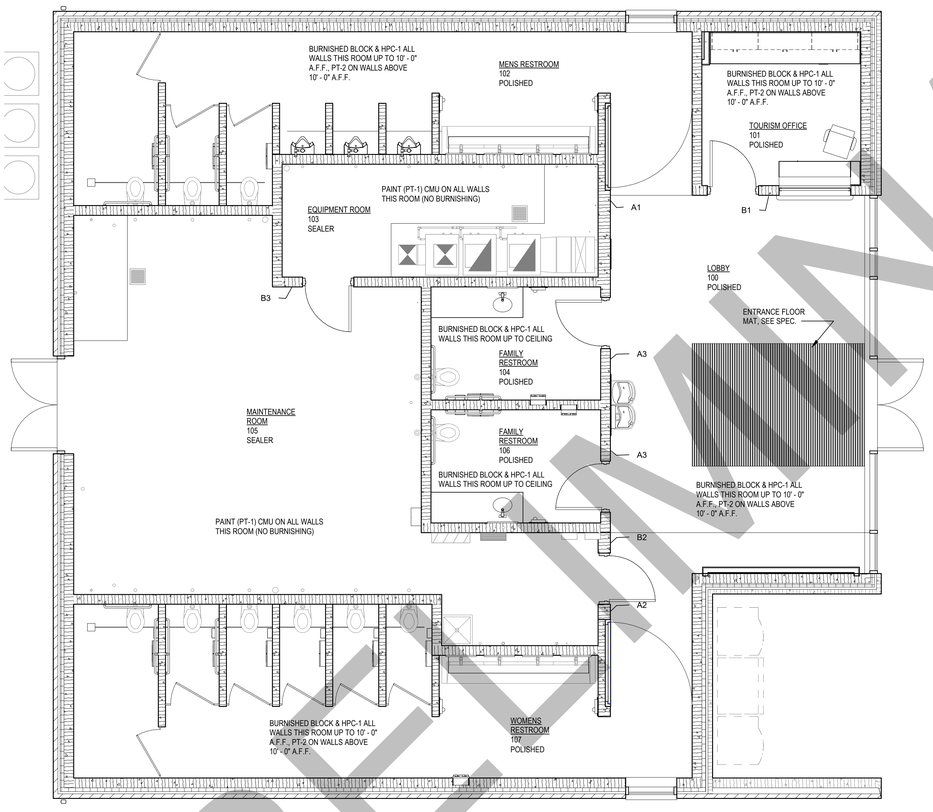
PROVIDE BRAILLE TEXT BELOW TYPE

3 ROOM IDENTIFICATION SIGN

SCALE: 6" = 1'-0"

SIGNAGE SCHEDULE

SIGN LOCATION			SIGN COPY			
ROOM NAME	ROOM NUMBER	TYPE	SIGN TEXT	SIGN RM. NUMBER	APPLICATION	COMMENTS
TOURISM OFFICE	101	B1	TOURISM OFFICE	101	WALL	RECESSED INTO THE CMU WALL
MENS RESTROOM	102	A1	MEN	102	WALL	RECESSED INTO THE CMU WALL
EQUIPMENT ROOM	103	B3	EQUIPMENT ROOM	103	WALL	
FAMILY RESTROOM	104	A3	FAMILY RESTROOM	104	WALL	RECESSED INTO THE CMU WALL
MAINTENANCE ROOM	105	B2	MAINTENANCE ROOM	105	WALL	RECESSED INTO THE CMU WALL
FAMILY RESTROOM	106	A3	FAMILY RESTROOM	106	WALL	RECESSED INTO THE CMU WALL
WOMENS RESTROOM	107	A2	WOMEN	107	WALL	RECESSED INTO THE CMU WALL



4 FIRST FLOOR FINISH PLAN

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

FINISHES

PAINT			PLASTIC LAMINATE		
PT-1	MANUFACTURER:	SHERWIN WILLIAMS	PL-1	MANUFACTURER:	WILSONART LAMINATE
	HUE:	BRIGHT WHITE		PATTERN:	D92-60 DOVE GREY
	FINISH:	--		APPLICATION:	CASEWORK SHELLS
	APPLICATION:	CEILINGS (GPDW, PLASTER), SOME WALLS	PL-2	MANUFACTURER:	WILSONART LAMINATE
PT-2	MANUFACTURER:	SHERWIN WILLIAMS		PATTERN:	4942-38 CRISP LINEN
	HUE:	SW 7020 BLACK FOX		APPLICATION:	COUNTERTOP
	FINISH:	--	PL-3	MANUFACTURER:	NEVAMAR
	APPLICATION:	GPDW WALLS ABOVE 10' - 0" A.F.F.		PATTERN:	WROUGHT IRON, S6054T, TEXTURED
HIGH PERFORMANCE COATINGS				APPLICATION:	TOEKICK
HPC-1	MANUFACTURER:	SEE HIGH PERFORMANCE SPECIFICATIONS	PL-4	MANUFACTURER:	WILSONART LAMINATE
	PRODUCT:	GRAFFITI AND SEALER		PATTERN:	D354-60 DESIGNER WHITE
	APPLICATION:	BURNISHED BLOCK WALLS		APPLICATION:	DRAWER BOTTOMS
HPC-2	MANUFACTURER:	SEE HIGH PERFORMANCE SPECIFICATIONS	SOLID SURFACE		
	PRODUCT:	METALLIC TO MATCH CLEAR ANODIZED	SSM-1	MANUFACTURER:	CORIAN
	APPLICATION:	HOLLOW METAL DOORS & FRAMES		PRODUCT:	--
HPC-3	MANUFACTURER:	SEE HIGH PERFORMANCE SPECIFICATIONS		COLORWAY:	SILVER BIRCH
	PRODUCT:	--		APPLICATION:	FAMILY RESTROOM VANITIES
	APPLICATION:	--	SSM-2	MANUFACTURER:	CORIAN
BURNISHED CMU				PRODUCT:	--
	MANUFACTURER:	COUNTY MATERIALS		COLORWAY:	ASH AGGREGATE
	PRODUCT:	PREMIER ULTRA BURN. MASONRY UNITS		APPLICATION:	WALL BASE
	MORE INFO:	REFERENCE DETAIL 3, SHEET A2.10			

ROOM FINISH SCHEDULE

		FLOOR			NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		
ROOM NO.	ROOM NAME	MTL.	FIN.	BASE	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	REMARK NO.
100	LOBBY	CONCRETE	POLISHED	SSM-2	BURNISHED CMU, GPDW	SEALER PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW, ALF-5	SEALER, PT-2	GPDW	PT-1	
101	TOURISM OFFICE	CONCRETE	POLISHED	SSM-2	BURNISHED CMU, GPDW	SEALER PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	GPDW	PT-1	
102	MENS RESTROOM	CONCRETE	POLISHED	SSM-2	BURNISHED CMU, GPDW	SEALER PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	GPDW	PT-1	
103	EQUIPMENT ROOM	CONCRETE	SEALER	N/A	CMU, GPDW	PT-1	CMU, GPDW	PT-1	CMU, GPDW	PT-1	CMU ,GPDW	PT-1	GPDW	PT-1	
104	FAMILY RESTROOM	CONCRETE	POLISHED	SSM-2	BURNISHED CMU	SEALER	BURNISHED CMU	SEALER	BURNISHED CMU	SEALER	BURNISHED CMU	SEALER	GPDW	PT-1	
105	MAINTENANCE ROOM	CONCRETE	SEALER	N/A	CMU, GPDW	PT-1	CMU, GPDW	PT-1	CMU, GPDW	PT-1	CMU ,GPDW	PT-1	GPDW	PT-1	
106	FAMILY RESTROOM	CONCRETE	POLISHED	SSM-2	BURNISHED CMU	SEALER	BURNISHED CMU	SEALER	BURNISHED CMU	SEALER	BURNISHED CMU	SEALER	GPDW	PT-1	
107	WOMENS RESTROOM	CONCRETE	POLISHED	SSM-2	BURNISHED CMU, GPDW	SEALER PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	BURNISHED CMU, GPDW	SEALER, PT-2	GPDW	PT-1	

ROOM FINISH GENERAL NOTES

1. PAINT ALL HOLLOW METAL DOORS & FRAMES w/ HIGH PERFORMANCE COATING TO MATCH CLEAR ANODIZED ALUMINUM STOREFRONT WINDOW SYSTEM.
2. RUBBER BASE SHALL NOT BE APPLIED TO CMU AND CONCRETE WALLS, TYP.
3. SEE INTERIOR ELEVATIONS AND FINISH FLOOR PLAN FOR EXTENT OF PAINT AND WALL COVERING FINISHES DESIGNATED ON FINISH SCHEDULE.
4. SEE INTERIOR WALL ELEVATIONS AND FINISH FLOOR PLAN FOR EXTENT OF TILE FINISHES.
5. SEE REFLECTED CEILING PLAN.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

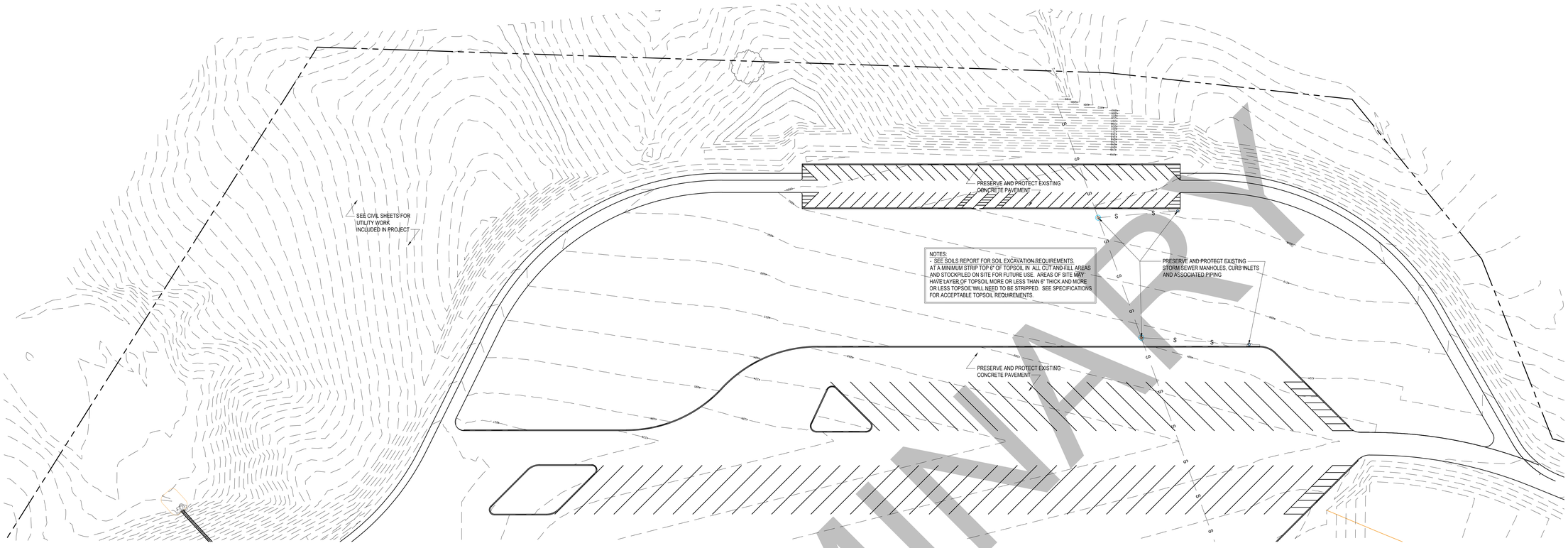
CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

First Floor Finishes Plan

F1.11



SITE EXISTING CONDITIONS/ DEMOLTION PLAN

SCALE: 1" = 50'-0"

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. ANY DISCREPANCIES NOTED IN THE FIELD SHALL BE RELAYED TO THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF WORK.

2. THE GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES TO REMAIN DURING CONSTRCUTION. UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND RECORD DRAWINGS RECEIVED. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES ARE SHOWN IN THE EXACT LOCATION INDICATED, ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THIS INCLUDES PRIVATE AND PUBLIC UTILITIES. FURTHER VERIFICATION MAY BE REQUIRED TO IDENTIFY UTILITIES NOT SHOWN HEREIN. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE "ONE CALL" SYSTEM. CALL THE UNDERGROUND HOTLINE FOR UTILITY LOCATIONS AT 1-800-331-5666. FIELD VERIFY ALL SITE SPECIFIC UTILITIES.

3. THE GENERAL CONTRACTOR SHALL NOT REMOVE OR ALTER ANY PROTECTION FENCING WITHOUT PRIOR WRITTEN CONSENT FROM OWNER AND LANDSCAPE ARCHITECT.

4. FILL AND CUT AREAS SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL PRIOR TO COMMENCEMENT OF WORK. ALL TOPSOIL SHALL BE REDISTRIBUTED AFTER ROUGH GRADING IS COMPLETED. PRESERVE AND PROTECT THE REDISTRIBUTED TOPSOIL FOR CONSTRUCTION ACTIVITY. MACHINERY SHALL NOT BE ALLOWED TO DRIVE OVER IT.

5. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO FLOW OR POND IN EXCAVATION AREAS.

SYMBOLS LEGEND:

PROPERTY LINE
LIMITS OF CONSTRUCTION

DEMOLITION NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL POINTS.

2. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, SIGNING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND APPROVED BY THE NEBRASKA DEPARTMENT OF TRANSPORTATION.

3. CONTINUOUS PEDESTRIAN & VEHICULAR ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING SITE DEMOLITION AND CONSTRUCTION.

4. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

5. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES OF FENCE, FLUMES, FOUNDATIONS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. (EXCEPT WHERE NOTED BY ENGINEER). SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE NEBRASKA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE DEMOLITIONS AND DISPOSAL.

7. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.

8. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED, RELOCATED, AND/OR ABANDONED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES.

9. ALL SIDEWALK & PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING CONCRETE. THE CONTRACTOR SHALL SAW CUT AT NEAREST JOINT WHERE NECESSARY.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

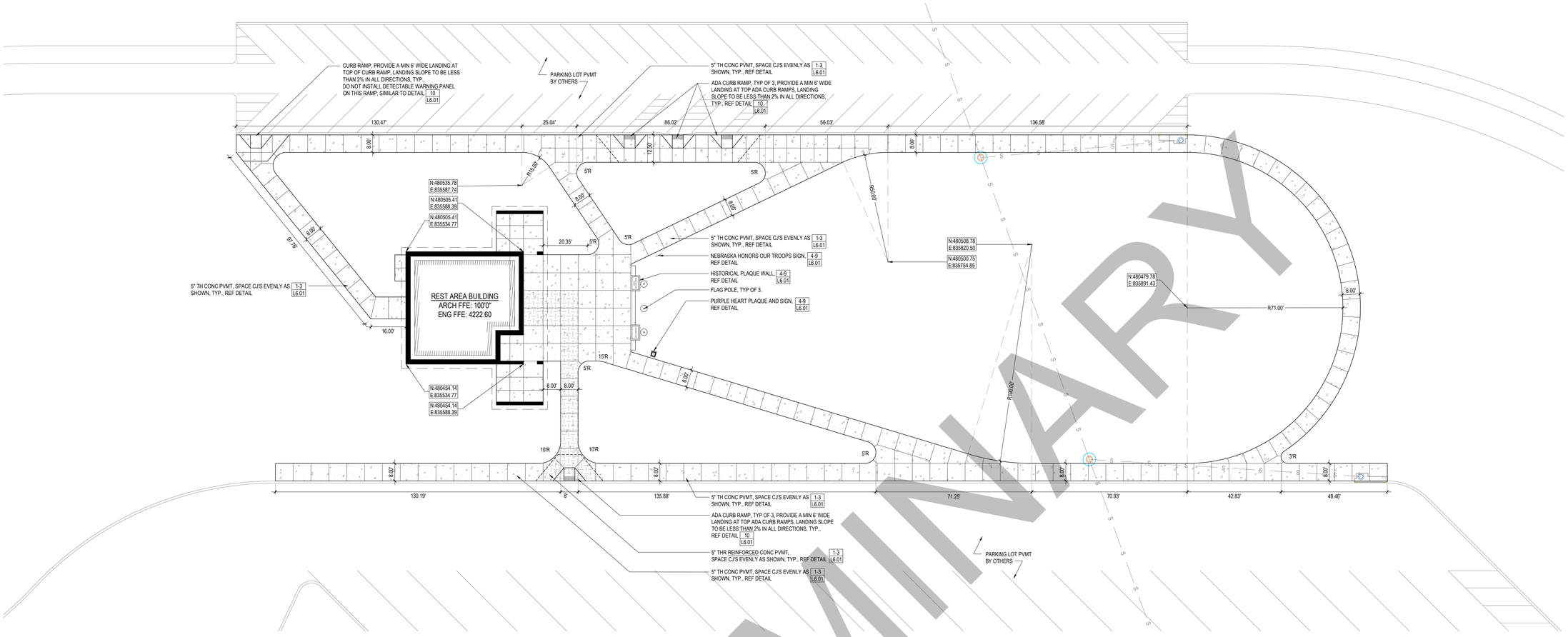
Feb. 24, 2023

PROFESSIONAL LANDSCAPE ARCHITECT
JOSHUA TANNER SUNDINE
LA-430
11-10-23
STATE OF NEBRASKA

Preliminary

Site Existing Conditions/
Demolition Plan

L1.01



SITE LAYOUT PLAN

SCALE: 1" = 20'-0"

PAVEMENT LEGEND:

5" TH CONCRETE PAVEMENT
STANDARD GRAY

5" TH REINFORCED CONCRETE PAVEMENT
W/ EPOXY COATED #4'S EACH WAY @ 18" O.C.
STANDARD GRAY

SHEET HISTORY:

ISSUED	05/15/2023	CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

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05/15/2023

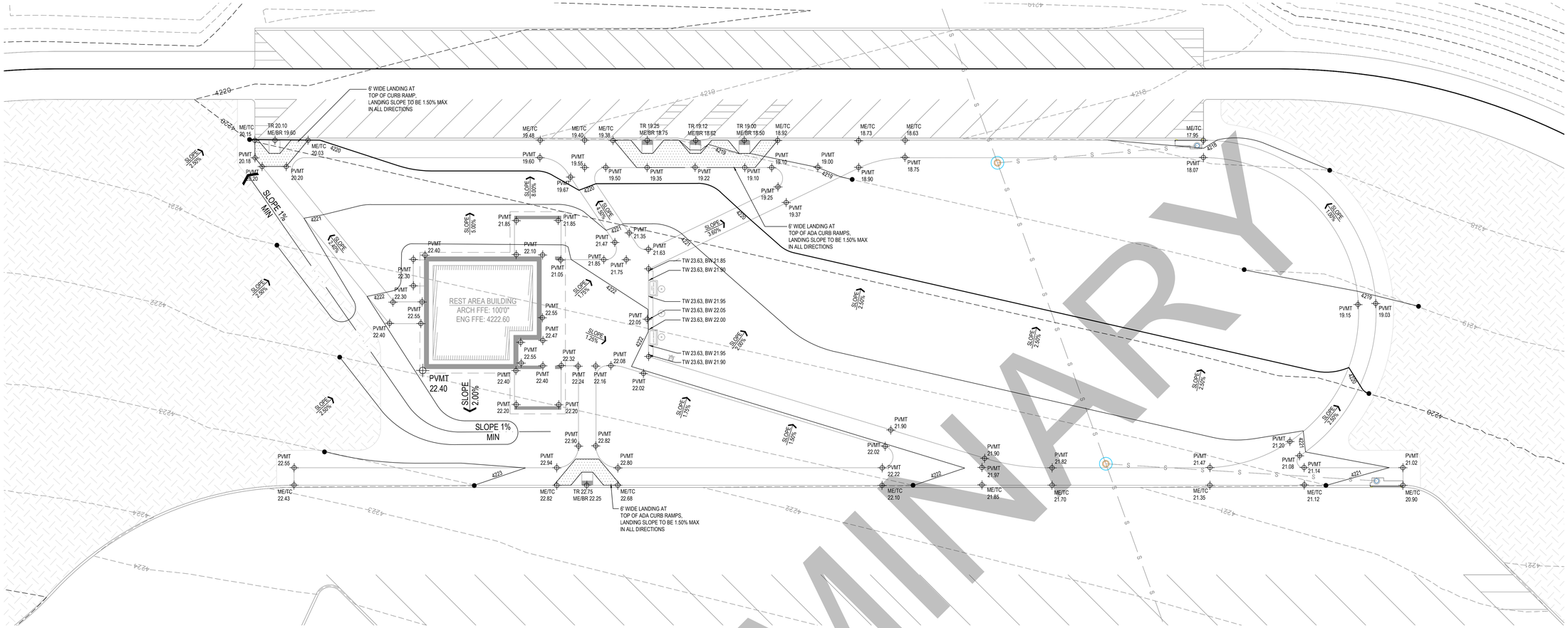
PROFESSIONAL ENGINEER - ARCHITECT
JOSHUA TANNER SUNDINE
LA - 430
11-10-23
STATE OF NEBRASKA

Preliminary

Site Layout Plan

L2.01

Plot Time Stamp: 11 / 09 / 2023 4:05:49 PM
File Location/Name: \\Tcep-h-sv-004\500-599\508-020-21 NDOT Rest Area Sidney WB\03 AutoCAD\508020-L201.dwg



SITE GRADING PLAN

SCALE: 1" = 20'-0"

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. ANY DISCREPANCIES NOTED IN THE FIELD SHALL BE RELAYED TO THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF WORK.

2. THE GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES TO REMAIN DURING CONSTRCUTION. UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND RECORD DRAWINGS RECEIVED. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES ARE SHOWN IN THE EXACT LOCATION INDICATED, ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THIS INCLUDES PRIVATE AND PUBLIC UTILITIES. FURTHER VERIFICATION MAY BE REQUIRED TO IDENTIFY UTILITIES NOT SHOWN HEREIN. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE "ONE CALL" SYSTEM. CALL THE UNDERGROUND HOTLINE FOR UTILITY LOCATIONS AT 1-800-331-5666. FIELD VERIFY ALL SITE SPECIFIC UTILITIES.

3. THE GENERAL CONTRACTOR SHALL NOT REMOVE OR ALTER ANY PROTECTION FENCING WITHOUT PRIOR WRITTEN CONSENT FROM OWNER AND LANDSCAPE ARCHITECT.

4. FILL AND CUT AREAS SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL PRIOR TO COMMENCEMENT OF WORK. ALL TOPSOIL SHALL BE REDISTRIBUTED AFTER ROUGH GRADING IS COMPLETED. PRESERVE AND PROTECT THE REDISTRIBUTED TOPSOIL FOR CONSTRUCTION ACTIVITY. MACHINERY SHALL NOT BE ALLOWED TO DRIVE OVER IT.

5. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO FLOW OR POND IN EXCAVATION AREAS.

6. A MAXIMUM OF 2% CROSS SLOPE SHALL BE ALLOWED FOR ALL SIDEWALKS.

ADA GRADING NOTES

ADA SIDEWALKS
ALL AREAS OF THE ADA ACCESSIBLE PATH ARE REQUIRED TO BE LESS THAN 5% SLOPE IN THE DIRECTION OF TRAVEL AND LESS THAN 2% FOR CROSS SLOPES. CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL ADA IMPROVEMENTS PER PLAN. ANY PORTIONS OF DESIGNATED ADA ACCESSIBLE PATHS THAT EXCEED THESE REQUIREMENTS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

ADA LANDINGS
ALL ADA ACCESSIBLE LANDINGS ARE REQUIRED TO BE LESS THAN 2% IN ALL DIRECTIONS. CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL ADA IMPROVEMENTS PER PLAN. ANY PORTIONS OF DESIGNATED ADA ACCESSIBLE PATHS THAT EXCEED THESE REQUIREMENTS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

ADA CURB RAMPS
ALL ADA RAMPS ARE REQUIRED TO HAVE SLOPES LESS THAN 8.33% IN THE DIRECTION OF TRAVEL AND LESS THAN 2% FOR CROSS SLOPES. CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL ADA IMPROVEMENTS PER PLAN. ANY PORTIONS OF DESIGNATED ADA ACCESSIBLE PATHS THAT EXCEED THESE REQUIREMENTS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

GRADING LEGEND

EXISTING CONTOUR LINE — 1414 —

PROPOSED CONTOUR LINE 1414

PROPOSED SPOT ELEVATION SPT 14.00

PROPOSED SLOPE SLOPE 1%

SPOT ELEVATION LEGEND

SYMBOL	DESCRIPTION
PVMT	TOP OF PAVEMENT
TS	TOP OF STEP
BS	BOTTOM OF STEP
ME	MATCH EXISTING
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL/FINISH GRADE
DOOR	FINISH FLOOR ELEVATION
BP	BREAK POINT
HP	HIGH POINT
LP	LOW POINT
GDE	FINISH GRADE

SHEET HISTORY:
ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

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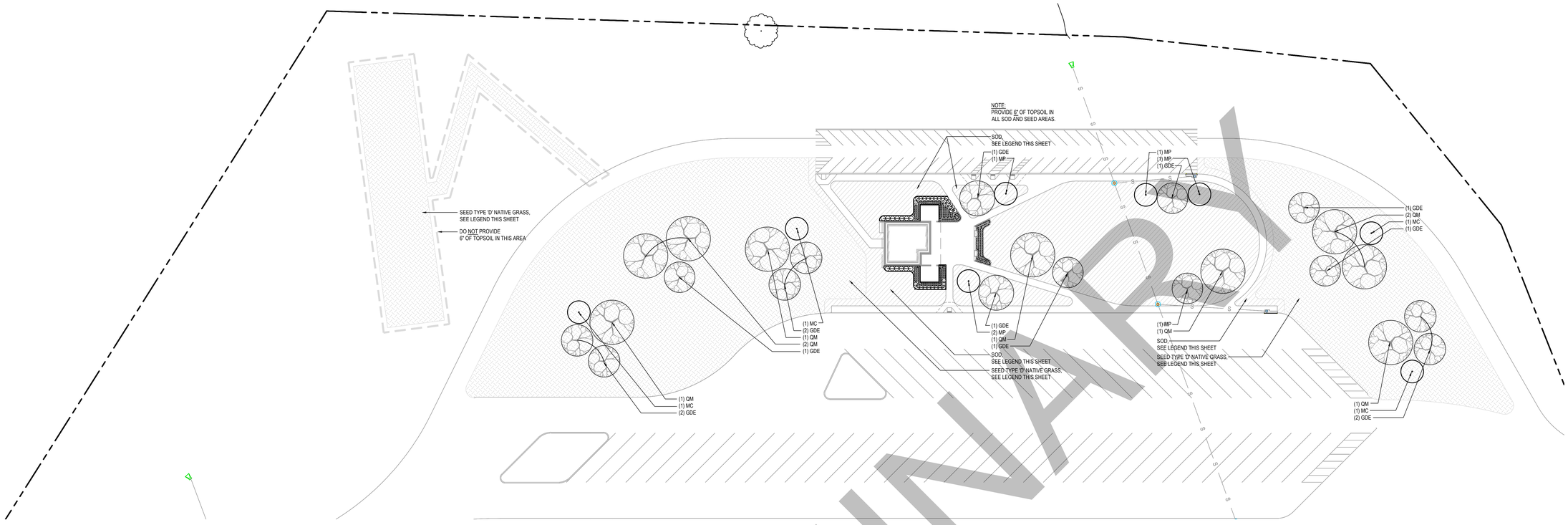
May 15, 2023

PROFESSIONAL LANDSCAPE ARCHITECT
JOSHUA W. TANNER SUNDINE
LA - 430
11-10-23
STATE OF NEBRASKA

Preliminary

Site Grading Plan

L3.01



TREE/ TURF SITE PLANTING PLAN

SCALE: 1" = 50'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL MULCH ALL TREE, SHRUB AND PERENNIAL BEDS. REFER TO PLANTING INSTALLATION DETAILS, THIS SHEET.
2. PROVIDE A CULTIVATED EDGE FOR ALL PLANTING BED/ AREAS EDGES THAT AREA ADJACENT TO TURF AREAS AS WELL AS ALONG THE EDGES OF CURBS, SIDEWALKS AND OTHER PAVEMENT AREAS.
3. PROVIDE 6" OF TOPSOIL IN ALL SOD AND SEED AREAS.
4. PROVIDE 24" OF TOPSOIL IN ALL PLANTING BED AREAS.

SOD

FESCUE & KENTUCKY BLUE GRASS BLEND

SEED MIXTURE SHALL INCORPORATE A MINIMUM OF:
- 3 OF THE TOP 25% PERFORMING TALL GRASS FESCUE 70%-95% OF TOTAL SEED MIXTURE

- 1 OF THE TOP 25% PERFORMING KENTUCKY BLUE GRASS 5%-30% OF TOTAL SEED MIXTURE

PERFORMANCE SHALL BE BASED ON NTEP'S 2015 TURF GRASS RANKINGS.

SEED TYPE 'D' NATIVE GRASS

SEED TYPE 'D'
COORDINATE WITH LANDSCAPE ARCH AND NDOT
FOR EXACT NATIVE GRASS SEED MIX

TREE PLANTING NOTES:
1) DO NOT HEAVILY PRUNE THE TREE AT PRUNING, PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, & BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS & LATERAL BRANCHES MAY BE PRUNED. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN

2) MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE

3) SET TOP OF ROOT BALL 1-2 INCHES HIGHER THAN SURROUNDING GRADE

4) APPLY 3"TH WOOD MULCH, DO NOT PLACE MULCH IN DIRECT CONTACT w/ TREE TRUNK

5) APPLY TREE WRAP TO TRUNK FROM THE BTM UPWARD, SECURE w/ TAPE

6) EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL w/ SOIL

7) REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM THE UPPER 1/3 OF ROOT BALL (REMOVE WIRE BASKETS)

8) PLACE ALL ROOT BALLS ON UN-EXCAVATED OR TAMPED SOIL, TYP

STAKING REQUIREMENTS:
1) STAKING SHALL BE w/ APPROVAL OF LANDSCAPE ARCH, IF TREE WILL NOT BE ABLE TO SUPPORT ITSELF (DEPENDS ON SPECIES)

2) WIRE / CABLE SHALL BE GALV. 14-GAUGE FOR TREES UNDER 2 1/2" CAL. 12-GAUGE FOR TREES OVER 3" CAL

3) TIGHTEN WIRE / CABLE ONLY ENOUGH TO KEEP FROM SLIPPING, ALLOW FOR SOME TRUNK MOVEMENT PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1 1/2" OF GROWTH

4) STAKES SHALL BE 1 1/2"x 1 1/2" HARDWOOD OR EQUAL

PLANTING BED NOTES:
1) REMOVE TOP 24" OF SOIL & REPLACE W/ NEW TOP SOIL PER SPECIFICATION.

2) BLEND TOP SOIL INTO EXISTING SOIL TO A DEPTH OF 24"

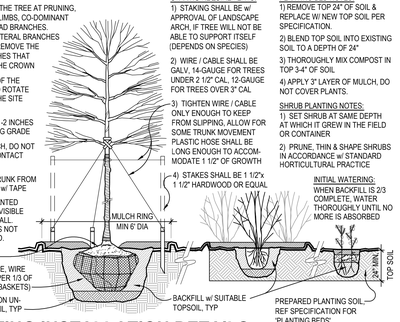
3) THOROUGHLY MIX COMPOST IN TOP 3-4" OF SOIL

4) APPLY 3" LAYER OF MULCH, DO NOT COVER PLANTS.

SHRUB PLANTING NOTES:
1) SET SHRUB AT SAME DEPTH AT WHICH IT GREW IN THE FIELD OR CONTAINER

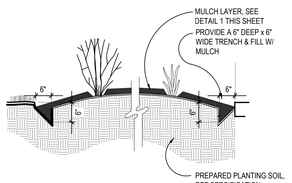
2) PRUNE, THIN & SHAPE SHRUBS IN ACCORDANCE w/ STANDARD HORTICULTURAL PRACTICE

INITIAL WATERING:
WHEN BACKFILL IS 2/3 COMPLETE, WATER THOROUGHLY UNTIL NO MORE IS ABSORBED



1 PLANTING INSTALLATION DETAILS

SCALE: 1/2"=1'-0" (IN ALL SOIL TYPES)

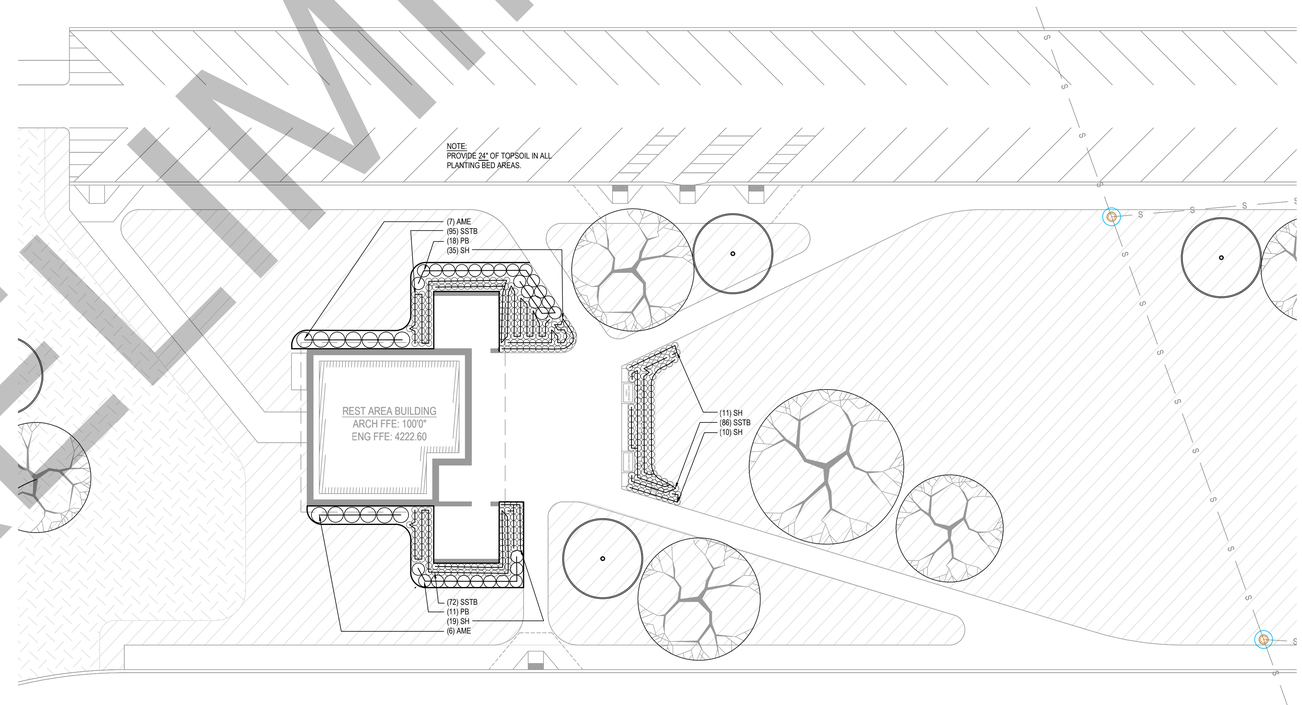


2 CULTIVATED MULCH EDGE

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

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE & METHOD OF HANDLING	DESIGN SPREAD & HEIGHT
TREES				
GDE	GYMNOCLADUS DIOCUS 'ESPRESSO'	ESPRESSO KENTUCKY COFFEETREE	2" CAL., B&B, 12'-14' HT RANGE	30' W x 35' H
MC	MALUS CENTZAN	CENTURION CRABAPPLE	1 1/2" CAL., B&B, 6'-8' HT RANGE	20' W x 20' H
MP	MALUS PRAIRIEFIRE	PRAIRIEFIRE CRABAPPLE	1 1/2" CAL., B&B, 6'-8' HT RANGE	20' W x 20' H
PGD	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	6' HT, B&B	20' W x 30' H
QM	QUERCUS MACROCARPA	BUR OAK	2" CAL., B&B, 12'-14' HT RANGE	50' W x 50' H
SHRUBS				
AME	ARONIA MELANOCARPA 'ELATA'	BLACK CHOKEBERRY	#2 CONT/ 18" HT MIN W/ 3 CANES	5' W x 5' H
PB	PRUNUS BESSEYI	PAWNEE BUTTES SAND CHERRY	#2 CONT/ 12" HT MIN W/ 4 CANES	4' W x 18" H
GRASSES				
SSTB	SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	THE BLUES LITTLE BLUESTEM	NO. 1 CONTAINER, 24" SPACING	24" W x 36" H
SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	NO. 1 CONTAINER, 24" SPACING	24" W x 24" H



SHRUB/ ORNAMENTAL GRASS SITE PLANTING PLAN

SCALE: 1" = 20'-0"

SHEET HISTORY:
ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

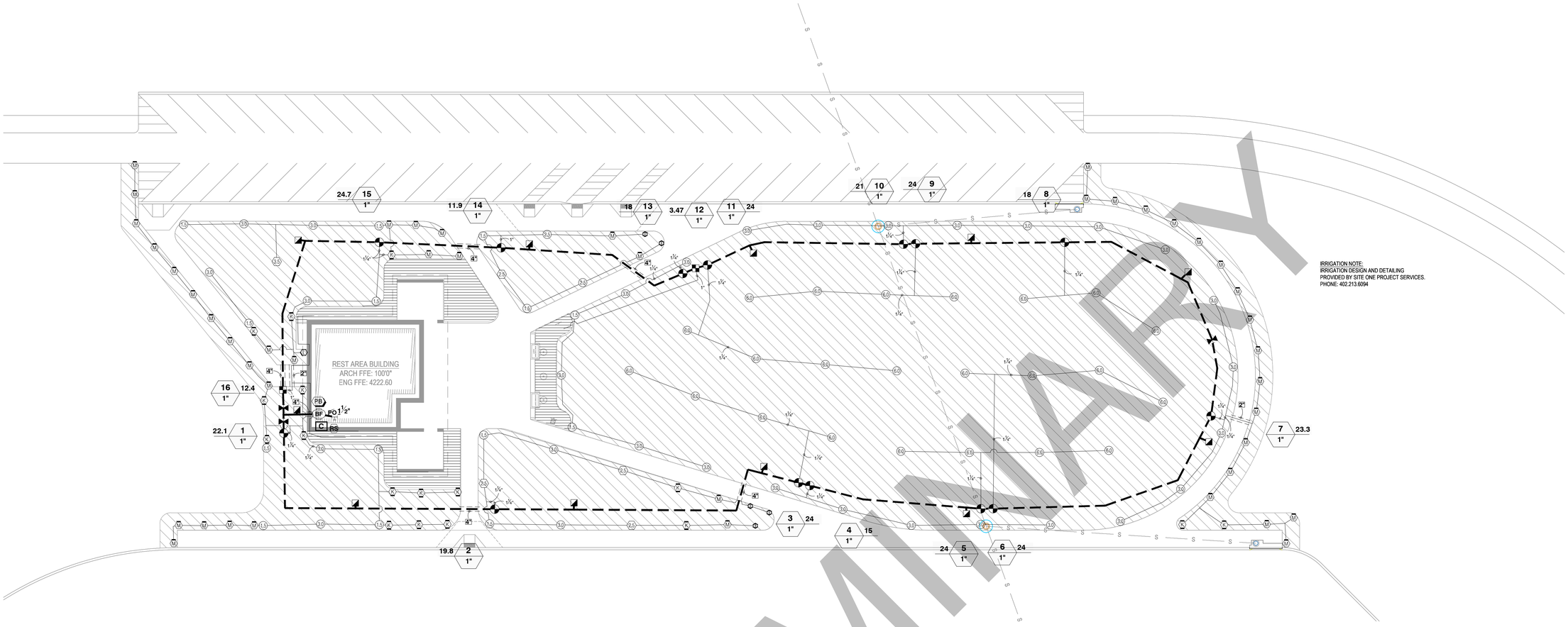
PROFESSIONAL LANDSCAPE ARCHITECT
JOSHUA TANNER SUNDINE
LA - 430
11-10-23
STATE OF NEBRASKA

Preliminary

Tree/ Turf
Site Planting Plan &
Shrub/ Ornamental Grass
Site Planting Plan

L4.01

Plot Time Stamp: 11 / 09 / 2023 4:07:53 PM
File Location/Name: \\Tcep-ln-srv-0045\500-599\508-020-21 NDOT Rest Area Sidney WB\03) AutoCAD\508020-L401.dwg



IRRIGATION NOTE:
IRRIGATION DESIGN AND DETAILING
PROVIDED BY SITE ONE PROJECT SERVICES.
PHONE: 402.213.6094

SITE IRRIGATION PLAN

SCALE: 1" = 20'-0"

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
LST SST RST	HUNTER MP STRIP PROS-06-PRS40-CV	1
M L U	HUNTER MP1000 PROS-06-PRS40-CV	44
K Q W	HUNTER MP2000 PROS-06-PRS40-CV	17
800 A 800 F	HUNTER MP800SR PROS-06-PRS40-CV	5

SYMBOL	MANUFACTURER/MODEL	QTY
1.5	HUNTER I-20-04 1.5	14
2.5	HUNTER I-20-04 2.5	2
3.0	HUNTER I-20-04 3.0	30
6.0	HUNTER I-20-04 6.0	23
2.5	HUNTER I-20-04-LA 2.5	4
3.5	HUNTER I-20-04-LA 3.5	1

SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER PCZ-101-40 1" W/ EZ-1 DECODER	2
	AREA TO RECEIVE DRIPLINE HUNTER HDL-06-12(18)-CV	1,582 L.F.

SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER PGV-101G 1" W/ EZ-1 DECODER	14
	HUNTER HQ-5RC 1"	11
	ISOLATION GATE VALVE	3
BF	FEBCO 825Y 1-1/2"	1
C	HUNTER HCC TWO WIRE CONTROLLER	1
RS	HUNTER WR-CLIK	1
PB	POC BOX - CALL 402.639.9473 FOR INFORMATION	1
POC 1"	POINT OF CONNECTION 1 1/2"	1
	IRRIGATION LATERAL LINE: POLYETHYLENE PIPE 100 PSI 1"	2,825 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/4"	373.1 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1 1/2"	1,128 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 2"	19.3 L.F.
	PIPE SLEEVE: 400-35-PVC-20 GREEN CELL CORE 4"	50.8 L.F.

Valve Callout
Valve Number
Valve Flow
Valve Size

CRITICAL ANALYSIS

Generated:	2023-05-10 09:37
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Custom Max Flow:	25 GPM
Flow Available	25 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	70 PSI
Pressure Available:	70 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	24.65 GPM
Flow Available at POC:	25 GPM
Residual Flow Available:	0.35 GPM
Critical Station:	6
Design Pressure:	45 PSI
Friction Loss:	3.15 PSI
Fittings Loss:	0.31 PSI
Elevation Loss:	0 PSI
Loss through Valve:	4.42 PSI
Pressure Req. at Critical Station:	52.9 PSI
Loss for Fittings:	0.22 PSI
Loss for Main Line:	2.19 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12.2 PSI
Critical Station Pressure at POC:	67.5 PSI
Pressure Available:	70 PSI
Residual Pressure Available:	2.51 PSI

IRRIGATION NOTES

1. IRRIGATION SYSTEM DESIGN BASED ON 24 GPM AT 70 PSI.
2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION (POC) ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE (GPM) AND POUNDS PER SQUARE INCH (PSI) FURNISHED BY OTHERS.
3. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
4. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5-FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
5. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL AND PLUMBING CODES.
6. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION PER LOCAL CODE.
7. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
8. ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES, EXCEPT AS OTHERWISE INDICATED.
9. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH A MINIMUM 12" OF COVER BASED ON FINISH GRADES.
10. PIPE LOCATIONS ARE DIAGRAMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
11. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
12. THE FOLLOWING SHOULD BE NOTED REGARDING TO PIPE SIZING: IF A SECTION OF UN-SIZED LATERAL PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS THE UN-SIZED SECTION SHALL BE OF THE SAME SIZE. IF A SECTION OF UN-SIZED LATERAL PIPE IS NOT SIZED AT THE END OF A ZONE AND IS NOT BETWEEN TWO IDENTICALLY SIZED SECTIONS THE UN-SIZED SECTION(S) SHALL BE 1-INCH.
13. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTORS AND BE IN A VALVE OR SPLICE BOX.
14. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 2-WIRE, UL APPROVED DIRECT BURY.
15. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.
16. BACKFLOW IS PROVIDED AND INSTALLED BY OTHERS.

SHEET HISTORY:
ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

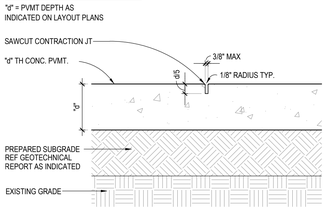
PROFESSIONAL LANDSCAPE ARCHITECT JOSHUA TANNER SUNDINE LA-430 11-10-23 STATE OF NEBRASKA

Preliminary

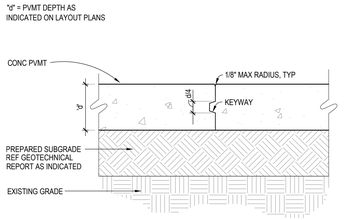
Site Irrigation Plan

L5.01

GENERAL NOTE:
SPACE CONTRACTION JOINTS AT 10'-0" UNLESS OTHERWISE INDICATED

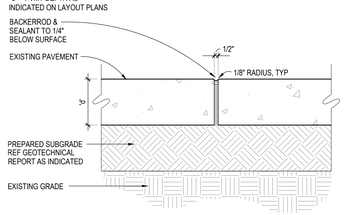


1 CONC. CONTRACTION JOINT
SCALE: 1 1/2"=1'-0"

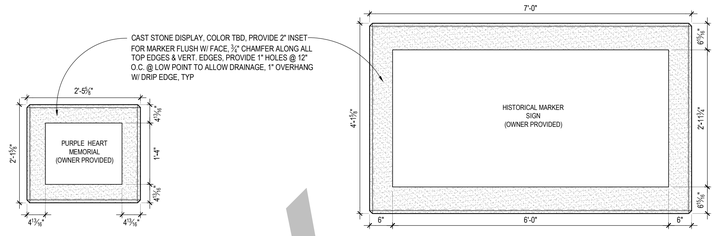


2 CONCRETE CONSTRUCTION JOINT
SCALE: 1 1/2"=1'-0"

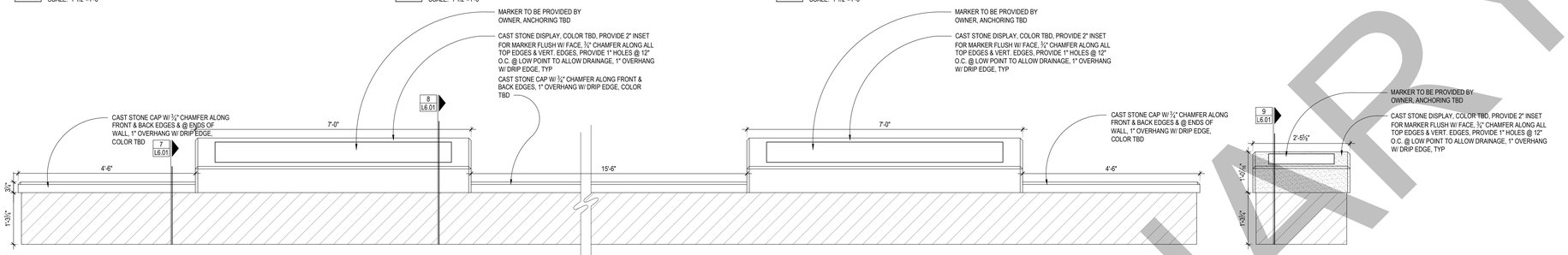
GENERAL NOTE:
LOCATE WHERE ABUTTING ALL STRUCTURES, BACK OF CURBS, 75' OC ALONG WALKS, DRIVE SLABS, & AS INDICATED ON SITE LAYOUT PLAN.



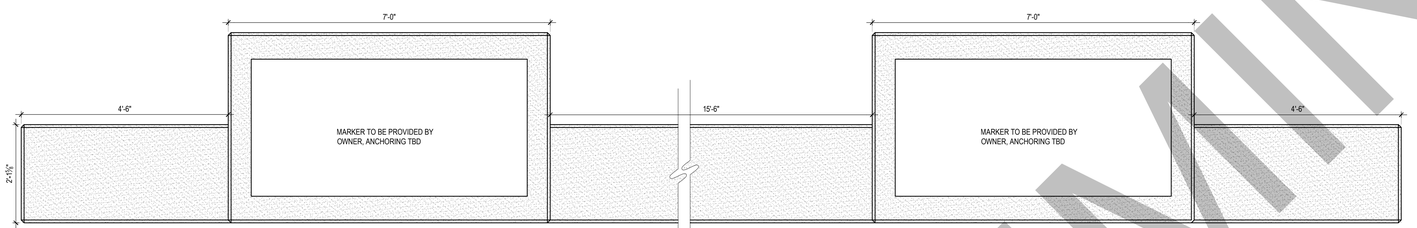
3 CONCRETE EXPANSION JOINT
SCALE: 1 1/2"=1'-0"



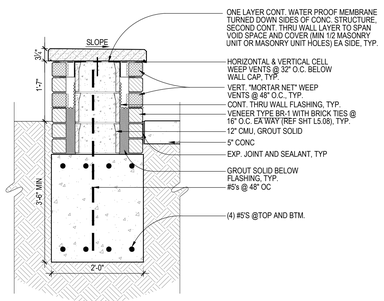
4 CAST STONE DISPLAYS
SCALE: 3/4" = 1'-0"



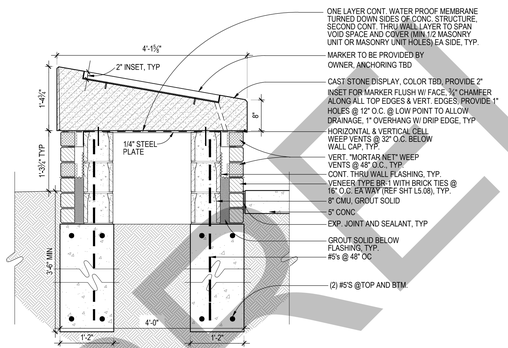
5 HISTORICAL MARKER SITE WALL: ELEVATION
SCALE: 3/4" = 1'-0"



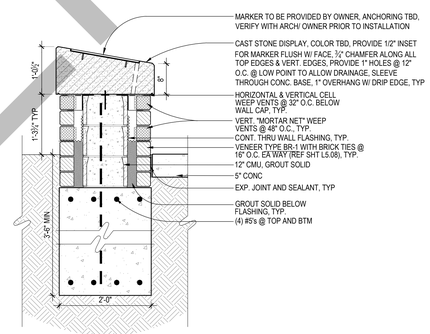
6 HISTORICAL MARKER SITE WALL: PLAN
SCALE: 3/4" = 1'-0"



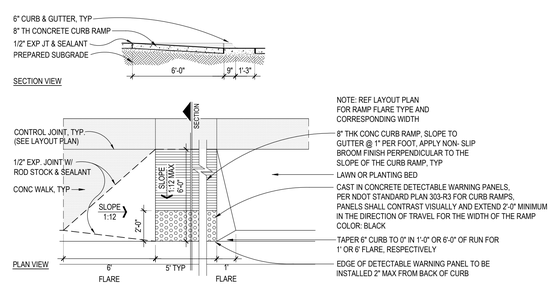
7 MASONRY SEAT WALL
SCALE: 3/4" = 1'-0"



8 MASONRY DISPLAY WALL
SCALE: 3/4" = 1'-0"



9 MASONRY DISPLAY WALL
SCALE: 3/4" = 1'-0"



10 CONC. CURB RAMP: PLAN & SECTION
SCALE: 1/4"=1'-0"

SHEET HISTORY:
ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

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Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

Site Details

L6.01

Plot Time Stamp: 1 / 08 / 2024 8:46:22 AM
File Location/Name: \\Tr-ep-fs-srv-004\500-599\508-020-21 NDOT Rest Area Sidney WB\03\ AutoCAD\508020-L6010.dwg

MECHANICAL ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS

A	COMPRESSED AIR
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AI	ANALOG INPUT
AO	ANALOG OUTPUT
APD	AIR PRESSURE DROP
AV	ACID VENT
AW	ACID WASTE
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CHWR	CHILLED OR HOT WATER RETURN
CHWS	CHILLED OR HOT WATER SUPPLY
CI	CAST IRON
CO	CLEAN OUT
CPD	CONDENSATE PUMP DISCHARGE
CPVC	CHLORINATED POLY VINYL CHLORIDE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DB	DRY BULB
DCI	DUCTILE CAST IRON
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DW	DOMESTIC WATER
DWV	DRAINAGE/WASTE/VENT
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
F	FIRE SUPPRESSION PIPING
FCO	FLOOR CLEAN OUT
FD	FIRE DAMPER
FD	FLOOR DRAIN
F.E.A.	FUME HOOD EXHAUST AIR
FH	FIRE HYDRANT
FL	FLOW LINE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FSD	FIRE/SMOKE DAMPER
G	GAS
GBD	GRAVITY BACKDRAFT DAMPER
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GEA	GENERAL EXHAUST AIR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HOUR
HW	DOMESTIC HOT WATER
HW 180	DOMESTIC HOT WATER, 180 DEG. F. SERVICE
HWC	DOMESTIC HOT WATER CIRCULATION
HWC 180	DOMESTIC HOT WATER CIRCULATION 180 DEG. F. SERVICE
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IE	INVERT ELEVATION
KEA	KITCHEN EXHAUST AIR
KS	KITCHEN SUPPLIER
KW	KILOWATT
LA	LABORATORY AIR
LAT	LEAVING AIR TEMPERATURE
LIT	LAY IN TILE
LCW	LABORATORY COLD WATER
LFC	LOOP FIELD CONTRACTOR
LFR	LOOP FIELD RETURN
LFS	LOOP FIELD SUPPLY
LG	LABORATORY GAS
LHW	LABORATORY HOT WATER
LHWC	LABORATORY HOT WATER RECIRC.
LPR	LOW PRESSURE STEAM SUPPLY
LPS	LOW PRESSURE STEAM RETURN
LV	LABORATORY VACUUM
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MB	MIXING BOX
MBH	1000 BTU/HR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MH	MAN HOLE
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT

ABBREVIATIONS

OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	MANUAL OPPOSED BLADE BALANCING DAMPER
PC	PLUMBING CONTRACTOR
POI	POST INDICATOR VALVE
PVC	POLY VINYL CHLORIDE
RA	RETURN AIR
PW	PURE WATER
RCP	REINFORCED CONCRETE PIPE
REL A	RELIEF AIR
RG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
S	STORM
SA	SUPPLY AIR
SAN	SANITARY WASTE PIPING (OUTSIDE BUILDING)
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SP	SUMP PUMP
SS	SUB SOIL DRAIN
TAB	TEST, ADJUST AND BALANCE
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TRANSFER DUCT
TOD	TOP OF DUCT
T/P	TEMPERATURE/PRESSURE
TSP	TOTAL STATIC PRESSURE
TW	DOMESTIC TEMPERED WATER
TWC	DOMESTIC TEMPERED WATER CIRCULATING
V	VENT
VTR	VENT THROUGH ROOF
VUF	VENT UNDER FLOOR
W	SANITARY WASTE PIPING (INSIDE BUILDING)
W	WATER SERVICE PIPING (OUTSIDE BUILDING)
WB	WET BULB
WCO	WALL CLEAN OUT
WPD	WATER PRESSURE DROP
XE	RELOCATED EQUIPMENT, DEVICE, ETC.
XFR	TRANSFER
XFMR	TRANSFORMER
XN	NEW EQUIPMENT, DEVICE, ETC.
XR	EXISTING CONDITION TO BE REMOVED OR RELOCATED
XXX-1	EQUIPMENT MARK - SEE MECHANICAL OR PLUMBING EQUIPMENT SCHEDULES (E.G., AHU-1 - AIR HANDLING UNIT)
VB	VARIABLE AIR VOLUME BOX
VBR	VARIABLE AIR VOLUME BOX WITH REHEAT
VBF	FAN POWERED VARIABLE AIR VOLUME BOX
VBRF	FAN POWERED VARIABLE AIR VOLUME BOX WITH REHEAT

PIPING

1/2 I	BALL VALVE
	GATE VALVE
	GLOBE VALVE
1/2	BUTTERFLY VALVE
RA	BALANCING VALVE
	CHECK VALVE
	VACUUM BREAKER BACKFLOW VALVE 0.5- 2"
1/2	PRESSURE REGULATING VALVE
	STRAINER
	TEMPERATURE GAUGE 3.5" STEM
	PRESSURE GAGE
SP	MOTOR CONTROL VALVE
SP	MOTOR CONTROL VALVE - 3 WAY
	STEAM TRAP - INVERTED BUCKET
	GLOBE VALVE
	3-WAY VALVE
	CIRCUIT SETTER
	MOTOR CONTROL VALVE
S	SOLENOID VALVE
	BASKET STRAINER
	SANITARY/STORM DRAIN BELOW GRADE OR BELOW FLOOR
XXX	PIPING. SEE ABBREVIATION LEGEND FOR TYPE OF SERVICE. (E.G. CWS SHALL BE CHILLED WATER SUPPLY)
HB-1	HOSE BIBB - EQUIP. MARK
WH-1	WALL HYDRANT - EQUIP. MARK (NON FREEZE TYPE)
V.T.R.	VENT THRU ROOF - MARK
4" FD-1	FLOOR DRAIN, SIZE, EQUIP. MARK
4" FS-1	FLOOR SINK, SIZE, EQUIP. MARK
6" RD-1	ROOF DRAIN, SIZE, EQUIP. MARK
6" OD-1	ROOF OVERFLOW DRAIN, SIZE, EQUIP. MARK
SH-1	SHOWER HEAD - EQUIP MARK
CO	CLEAN OUT
FCO	FLOOR CLEAN OUT
GCO	GRADE CLEAN OUT
CO	CLEAN OUT AT BASE OF STACK
RT-1 9'-0" 8.0 GPM	PANEL RADIATOR - EQUIP. MARK, LENGTH, GALLONS PER MINUTE.
	ELBOW DOWN
	ELBOW UP
	TEE DOWN
	TEE UP
VBR-8 1.0 GPM	VARIABLE AIR VOLUME BOX WITH REHEAT - EQUIP. MARK, FLOW RATE
	VARIABLE AIR VOLUME BOX
	LAB AIR VALVE
	REHEAT COIL

SHEET METAL

12/6	RECTANGULAR DUCT - FIRST NUMBER INDICATES SIZE SHOWN
12/0	ROUND DUCT
12/6	OVAL DUCT - FIRST NUMBER INDICATES SIZE SHOWN
	FLEX DUCT
	TURNING VANES
	POSITIVE PRESSURE DUCT UP
	POSITIVE PRESSURE DUCT DOWN
	NEGATIVE PRESSURE DUCT UP
	NEGATIVE PRESSURE DUCT DOWN
	OVAL DUCT UP AND DOWN
	MANUAL BALANCING DAMPER
L-1 48/48	WALL LOUVER - EQUIP. MARK, SIZE
	MOTORIZED DAMPER - BLADES PARALLEL TO PAGE
	PARALLEL OR OPPOSED BLADE MOTORIZED DAMPER BLADES PERPINDICULAR TO PAGE
FD-1	FIRE DAMPER AND ACCESS DOOR - EQUIP. MARK
SD-1	SMOKE DAMPER AND ACCESS DOOR - EQUIP. MARK
FSD-1	COMBINATION FIRE/SMOKE DAMPER AND ACCESS DOOR - EQUIP. MARK
D-1 8/8 300	CEILING DIFFUSER - EQUIPMENT MARK, SIZE, CFM
R-1 12/8 300	SIDEWALL REGISTER - EQUIP. MARK, SIZE, CFM, HEIGHT AFF
G-1	CEILING RETURN GRILLE - EQUIP. MARK, SIZE, CFM
VB-8 1000	VARIABLE AIR VOLUME BOX - EQUIP. MARK, CFM
VBR-8 1000	VARIABLE AIR VOLUME BOX WITH REHEAT - EQUIP. MARK, CFM
LSV-8 1000	LABORATORY SUPPLY VALVE - MARK, DESIGN CFM
FEV-8 800	FUME EXHAUST VALVE - MARK, DESIGN CFM
GEV-8 945	GENERAL EXHAUST VALVE - MARK, DESIGN CFM
	LOW PRESSURE BRANCH 45 DEGREE ENTRY WITH BALANCING DAMPER

TEMPERATURE CONTROL

XXX	CONTROL POINT
AF	AIRFLOW MEASURING STATION
CO2	CARBON DIOXIDE SENSOR
CO2	STATIC PRESSURE SWITCH
CO2	TEMPERATURE SENSOR WITH AVERAGING ELEMENT
MD	MOTORIZED DAMPER
SP	SMOKE DAMPER
SP	STATIC PRESSURE SENSOR
M	MOTOR
VFD	VARIABLE FREQUENCY DRIVE
T T	TEMPERATURE SENSOR/THERMOSTAT
H H	HUMIDITY SENSOR/HUMIDISTAT
C C	CARBON DIOXIDE SENSOR
S S	SENSOR
SMK	SMOKE DETECTOR
ES	DAMPER END SWITCH
MD	MOTORIZED DAMPER
MD	HUMIDIFIER
TS	PIPING TEMPERATURE SENSOR
	PIPING THERMOMETER
	PIPING PRESSURE GAUGE
DP	PIPING DIFFERENTIAL PRESSURE SENSOR
M	PIPING FLOW METER
	PIPING TWO-WAY CONTROL VALVE
	PIPING THREE-WAY CONTROL VALVE

GENERAL

	CONNECTION - NEW TO EXISTING
	PIPE OR ROUND DUCT RISER
	PIPE OR ROUND DUCT DROP
	DIRECTION OF FLOW
	DOWNWARD PIPE OR DUCT PITCH
	SECTION IDENTIFICATION: SECTION NUMBER / SHEET NUMBER
F	DETAIL IDENTIFICATION: SECTION NUMBER / SHEET NUMBER
M	ELECTRICAL MOTOR
100'-0"	ARCHITECTURAL ELEVATION
100.00'	ENGINEER ELEVATION
	ELECTRICAL PANEL
VFD-1	VARIABLE FREQUENCY DRIVE PANEL - EQUIP. MARK
(E)	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC.

FIRE SUPPRESSION

	SPRINKLER BRANCH WITH HEADS
	SIAMESE CONNECTION
FHC	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
P.I.V.	POST INDICATOR VALVE
	O.S. & Y. VALVE
FS	FLOW SWITCH
F	FIRE PROTECTION PIPING

SCHEMATICS

N.C. C N.O.	3-WAY AUTOMATIC CONTROL VALVE - NORMALLY OPEN, CLOSED AND COMMON PORTS INDICATED
N.C.	2-WAY AUTOMATIC CONTROL VALVE - NORMALLY CLOSED
N.O.	2-WAY AUTOMATIC CONTROL VALVE - NORMALLY OPEN
M N.C.	AUTOMATIC BUTTERFLY VALVE - NORMALLY CLOSED
M N.O.	AUTOMATIC BUTTERFLY VALVE - NORMALLY OPEN
C M N.O. N.C.	AUTOMATIC LINKED BUTTERFLY VALVES - NORMALLY OPEN, CLOSED AND COMMON PORTS INDICATED.
	MANUAL BALL VALVE FOR SHUT-OFF OR BALANCING SERVICE
SW	STOP AND WASTE BALL VALVE
	BALL VALVE WITH PRESSURE TAP
	BALL VALVE WITH PRESSURE TAP & MEMORY STOP
	BALL VALVE WITH PRESSURE & TEMPERATURE TAP
	BALL VALVE WITH PRESSURE & TEMPERATURE TAP & MEMORY STOP
	MANUAL BALANCING BALL VALVE WITH MEMORY STOP
	NORMALLY CLOSED MOTORIZED BALL VALVE
	NORMALLY OPEN MOTORIZED BALL VALVE
	VALVE BOX
	AUTOMATIC FLOW CONTROL VALVE WITH PRESSURE & TEMPERATURE TAP
	MANUAL GATE VALVE
	MANUAL GLOBE VALVE
	CALIBRATED BALANCING VALVE
	MANUAL PLUG VALVE
	MANUAL BUTTERFLY VALVE
	WHEEL OPERATED BUTTERFLY VALVE
	GAGE COCK
	CHECK VALVE
	VACUUM BREAKER
	GAS COCK
PRV-1	PRESSURE REGULATING OR REDUCING VALVE - EQUIP. MARK
	STRAINER WITH BLOWDOWN VALVE
	STRAINER
	MANUAL AIR VENT
S	REFRIGERANT SOLENOID VALVE
	FLANGE CONNECTION
	UNION
SRV-1	SAFETY RELIEF VALVE - EQUIP. MARK

GENERAL MECHANICAL NOTES:

1. GENERAL

- THESE NOTES SHALL APPLY TO ALL MECHANICAL PLANS.
- NOTE THAT THE MECHANICAL PLANS ARE TO A GREAT EXTENT SCHEMATIC IN NATURE AND THAT THE INFORMATION PRESENTED IS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATIONS, MEASUREMENTS, LEVELS, ETC., AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS AT THE PROJECT SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPER SUPPORT OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. COORDINATE INSTALLATION OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. WITH OTHER BUILDING TRADES.
- SEE SPECIFICATION SECTIONS 22 05 00 AND 23 05 00 FOR OTHER GENERAL MECHANICAL REQUIREMENTS.
- THE LOCATION AND SIZE OF ALL ITEMS SHOWN AS EXISTING WERE OBTAINED FROM PREVIOUS DRAWINGS AND SITE VISITS, AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE PROJECT BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED WHICH ARE A RESULT OF EXISTING CONDITIONS. SITE VISITS PRIOR TO SUBMISSION OF BIDS MUST BE FULLY COORDINATED WITH THE OWNER.
- ALL EXPOSED MECHANICAL ITEMS WILL BE FIELD-PAINTED. ALL ITEMS SHALL BE PROPERLY ORDERED AND PREPARED TO ACCEPT PAINT. COORDINATE EXACT REQUIREMENTS, WITH PAINTING CONTRACTOR. SEE ARCHITECTURAL AND FINISH DRAWINGS AND SPECIFICATIONS FOR AREAS AND ITEMS THAT WILL BE PAINTED.
- CONTRACTOR SHALL INCLUDE DEMOLITION OF ALL EXISTING CONTROL SYSTEMS FOR ALL ITEMS/EQUIPMENT SHOWN ON PLANS AS BEING REMOVED.
- THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF ANY SYSTEM CONTAINING REFRIGERANT WITH THE OWNER'S REPRESENTATIVE PRIOR TO REMOVAL. THE OWNER WILL RECOVER REFRIGERANT FROM SYSTEMS PRIOR TO REMOVAL BY CONTRACTOR. NOTIFY OWNER A MINIMUM OF SEVEN (7) DAYS PRIOR TO REMOVAL OF SYSTEM.
- ALL ACCESS PANELS LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO FINAL INSTALLATION. ENSURE FINAL INSTALLATION LOCATION PROVIDES REQUIRED ACCESS TO ALL MECHANICAL EQUIPMENT AND ASSOCIATED COMPONENTS.

SITE UTILITIES

- ALL CONNECTIONS TO UTILITY MAINS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE VIA WRITTEN NOTICE GIVEN A MINIMUM OF SEVEN DAYS PRIOR TO WORK.

DUCTWORK

- ALL DUCT DIMENSIONS CALLED OUT ARE INTERIOR AIR FLOW DIMENSIONS. UNLESS OTHERWISE NOTED, ALL SUPPLY, RETURN, EXHAUST, OUTSIDE AND RELIEF AIR DUCT IS GALVANIZED STEEL. UNLESS OTHERWISE NOTED, ALL SUPPLY DUCT MITERED ELBOWS SHALL BE INSTALLED WITH TURNING VANES. ALL ROUND ELBOWS SHALL BE FULL-RADIUS TYPE. ALL ROUND-TO-RECTANGULAR BRANCH CONNECTIONS SHALL BE 45-DEGREE ENTRY LOW-LOSS FITTINGS. ALL CANOPY HOOD EXHAUST DUCTWORK SHALL BE STAINLESS STEEL AND IS SHOWN ON THE DRAWINGS AS SHADED.
- ALL SUPPLY AIR DUCT SHALL BE WRAPPED WITH INSULATION UNLESS OTHERWISE NOTED OR SPECIFIED. EXHAUST AIR DUCT SHALL BE LEFT UN-INSULATED UNLESS LINER IS EXPLICITLY CALLED OUT.
- ALL EXPOSED DUCTWORK SHALL BE INSTALLED IN A NEAT AND WORKMAN-LIKE MANNER FREE FROM ALL VISIBLE DENTS AND KINKS. DUCT RUNS SHALL BE STRAIGHT AND LEVEL.

PIPING

- UNLESS OTHERWISE NOTED, MINIMUM HEATING HOT WATER SUPPLY/RETURN RUN-OUTS TO EQUIPMENT SHALL BE 3/4" SIZE.
- SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPE SIZES REQUIRED AT FIXTURES. PROVIDE WATER HAMMER ARRESTORS AT COLD WATER BRANCHES AS REQUIRED BY PDI-WH201. PROVIDE ACCESS TO EACH WATER HAMMER ARRESTOR.
- UNLESS NOTED OTHERWISE, WASTE AND STORM DRAINAGE PIPING HAS BEEN DESIGNED TO ACCOMMODATE A SLOPE OF 1/8" PER LINEAR FOOT FOR PIPING GREATER THAN 3" IN DIAMETER AND A SLOPE OF 1/4" PER LINEAR FOOT FOR 3" AND SMALLER DIAMETER PIPE.
- PIPE HANGERS SUSPENDED FROM STRUCTURAL FLOOR OR ROOF JOIST AND SUPPORTING MORE THAN 200 LBS SHALL BE ATTACHED TO THE TOP MEMBER OF THE JOIST.
- INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING SYSTEMS, INCLUDING ALL SUPPLY AND RETURN SYSTEMS. INSTALL AUTOMATIC AIR VENT AT THE HIGHEST POINT IN EACH SYSTEM WITH MANUAL SHUT-OFF BALL VALVE.

TEMPERATURE CONTROLS

- ALL EXACT SENSOR, CONTROL PANEL AND THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER.
- UNLESS OTHERWISE NOTED, ALL AIR TERMINAL UNITS, CABINET UNIT HEATERS, UNIT HEATERS, ETC. SHALL BE PROVIDED WITH A THERMOSTAT OR CONTROL DEVICE REGARDLESS OF WHETHER ONE IS SHOWN ON THE PLANS.
- UNLESS OTHERWISE NOTED, ALL THERMOSTATS SHALL BE WALL MOUNTED AT 48" A.F.F.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

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Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

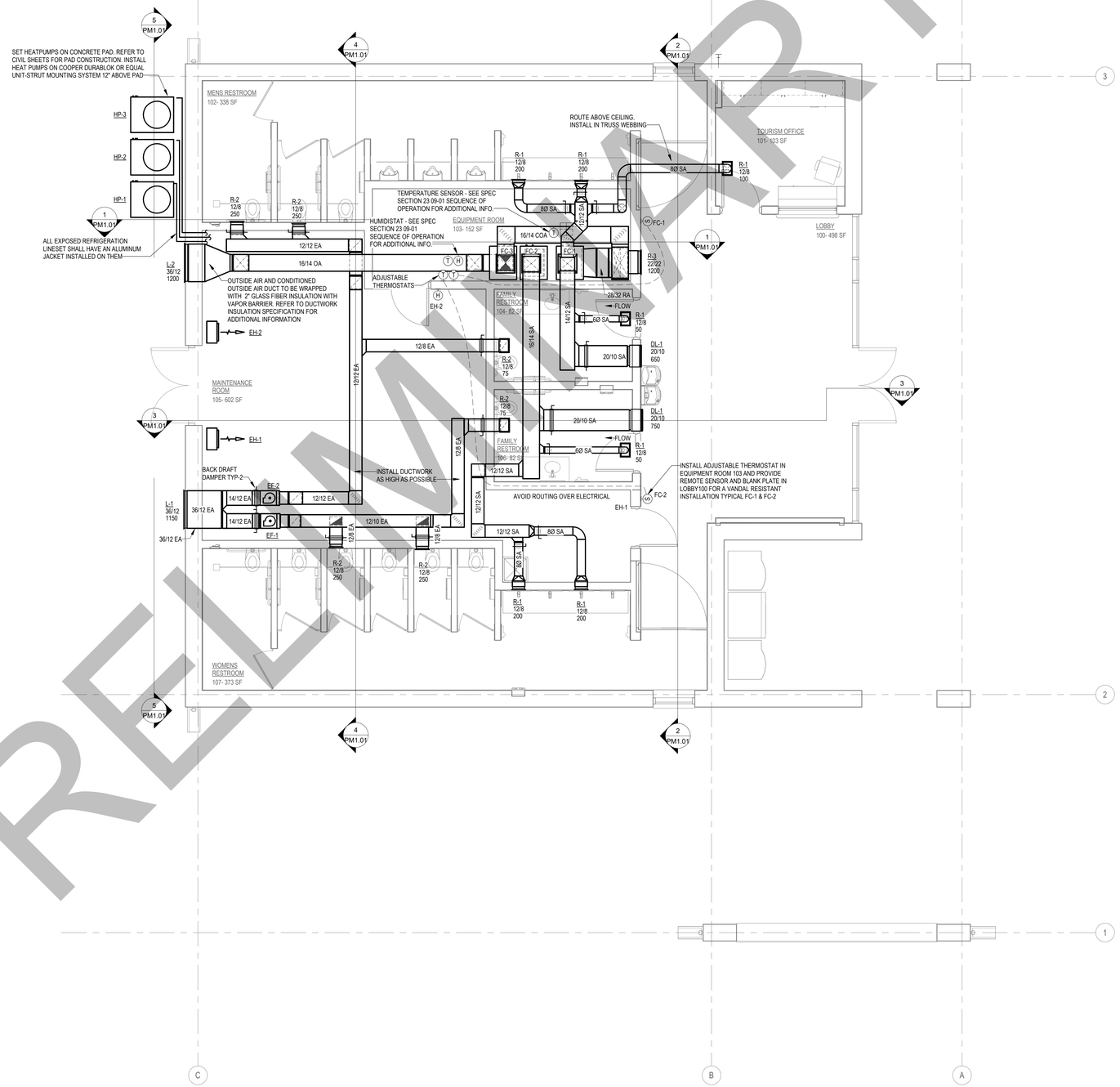
PROFESSIONAL MECHANICAL ENGINEER
JEFFREY P. SLATTERY
E-18541
5/15/23
STATE OF NEBRASKA

Preliminary

Mechanical Abbreviations, Symbols & Notes

M0.00

Plot Time Stamp: 5/15/2023 10:00:09 AM
File Location/Name: C:\(1) Revit Projects\2022\508020-SBSWB-M22_eric.nelson@clarkenersen.com.rvt



FIRST FLOOR HVAC PLAN

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

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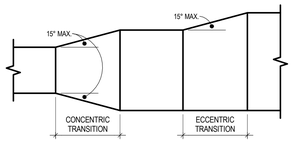
Preliminary

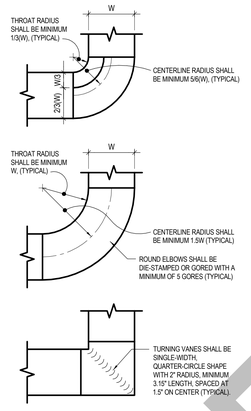
First Floor HVAC Plan

M1.01



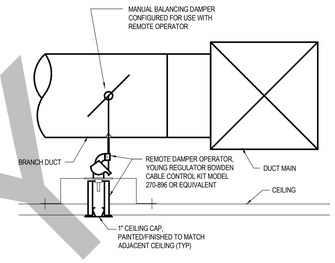
1 DUCT TRANSITION DETAILS

NO SCALE



2 DUCT ELBOW DETAILS

NO SCALE

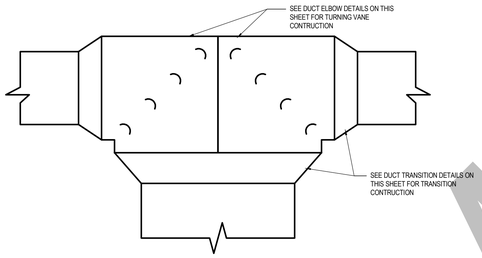


3 REMOTE DAMPER OPERATOR DETAIL

NO SCALE

GENERAL NOTE:

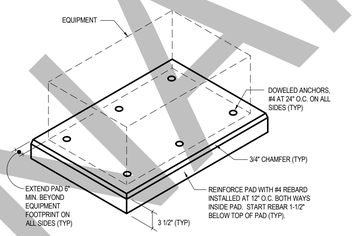
1. WHERE SHOWN ON PLAN WHEN THERE ARE MULTIPLE REMOTE DAMPERS CO-LOCATED. ROUTE THEIR CABLE TO A SINGLE COMMON LOCATION. POSSIBLE LOCATION CAN BE RETURN GRILLE, LIGHT FIXTURE, ACCESS PANEL, REMOVABLE CEILING TILE, ETC.



4 DUCTWORK T-JUNCTION DETAIL

NO SCALE

NOTE: DETAIL APPLIES TO ALL DUCTWORK IN WHICH AIRFLOW SPLITS IN 2 DIRECTIONS. REFER TO OTHER DETAILS FOR BRANCH TAKE-OFFS

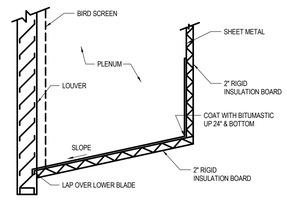


NOTES:

1. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE PROVIDED WITH AN EQUIPMENT PAD.
2. FLOOR UNDER BASE/PAD SHALL BE ROUGHENED AND BASE SHALL BE DOWELLED TO FLOOR. ADJUST BASE SIZE AS REQUIRED FOR INDIVIDUAL EQUIPMENT INSTALLED.
3. ALL EQUIPMENT PADS THAT SUPPORT BOTH EQUIPMENT AND INERTIA BASES SHALL BE REINFORCED WITH #5 REBAR INSTALLED AT 12" O.C. BOTH WAYS INSIDE PAD.

5 EQUIPMENT PAD DETAIL

NO SCALE

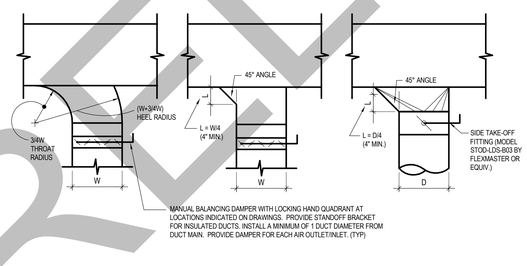


6 LOUVER DETAIL

NO SCALE

GENERAL NOTE:

1. PROVIDE INSULATED BLANK OFF PANEL WHERE DUCTWORK IS NOT ATTACHED.



7 DUCT TAKE-OFF DETAILS

NO SCALE

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ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

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May 15, 2023

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JEFFREY P. SLATTERY
E-18541
5/15/23
STATE OF NEBRASKA

Preliminary

Mechanical Details

M2.01

LOUVER SCHEDULE

MARK	OPERATING CONDITIONS	SIZE	TOTAL FACE AREA	CFM	VELOCITY FPM	APD	MINIMUM FREE AREA SQ.FT.	CONSTRUCTION MATERIAL	BLADE SPACING/ANGLE	SCREEN	FINISH	MANUFACTURER OR APPROVED EQUIVALENT	MODEL	REMARKS
L-1	EXHAUST AIR	36"x12"	3 SQUARE FEET	1,150	681	0.17	1.0	6063 EXTRUDED ALUMINUM	4.75"HORIZONTAL	BIRD	BAKED ENAMEL	RUSKIN	EME220DD	1,2,3,4
L-2	OUTSIDE AIR	36"x12"	3 SQUARE FEET	1,200	681	0.17	1.0	6063 EXTRUDED ALUMINUM	4.75"HORIZONTAL	BIRD	BAKED ENAMEL	RUSKIN	EME220DD	1,2,3,4

REMARKS:
1. PROVIDE COLOR CHART AT SHOP DRAWING REVIEW FOR COLOR.
   FINAL COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS (2 AND 3 COAT COLORS)
2. PROVIDE GALVANIZED BIRDSCREEN, 0.5" MESH TYPE
3. PROVIDE ALUMINUM INSECT SCREEN
4. COORDINATE FRAME WITH EXTERIOR MOUNTING CONDITIONS

NOTE:
THE SCHEDULED PRODUCT IS SPECIFIED AS A BASIS OF DESIGN AND DOES NOT GUARANTEE IT COMPLIES WITH THE BUY AMERICA ACT AS STATED IN SPECIFICATION SECTION 01 20 00 "BUY AMERICA".
BASIS OF DESIGN PRODUCTS MUST BE VERIFIED AS BEING COMPLIANT WITH THE BUY AMERICA ACT IN ADDITION TO MEETING PERFORMANCE REQUIREMENTS AS SPECIFIED IN THIS SECTION AND ANY OTHER RELATED SECTIONS.

HEAT PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	COOLING PERFORMANCE CAPACITY	SENSIBLE	LATENT	SUPPLY AIR	OUTDOOR DB	ENTERING DB	ENTERING WB	LEAVING DB	LEAVING WB	HEATING PERFORMANCE HEAT PUMP CAPACITY	POWER SUPPLY	MOCP
HP-1	CARRIER	GHSSAN43600A	34,200	26,403	8,347	1127	95 F	80 F	67 F	60.7 F	58 F	17 F - 20,400 BTUH	208/1/60	30 AMPS
HP-2	CARRIER	GHSSAN43600A	34,200	26,403	8,347	1127	95 F	80 F	67 F	60.7 F	58 F	17 F - 20,400 BTUH	208/1/60	30 AMPS
HP-3	CARRIER	GHSSAN43600A	34,200	26,403	8,347	1127	95 F	80 F	67 F	60.7 F	58 F	17 F - 20,400 BTUH	208/1/60	30 AMPS

REMARKS:
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION
2. PROVIDE R-410A REFRIGERANT CHARGE
3. PROVIDE ALL REQUIRED INSULATED REFRIGERANT LINES
4. PROVIDE ALL STANDARD FIVE (5) YEAR COMPRESSOR WARRANTY
5. PROVIDE SPECIALTIES FOR A COMPLETE AND OPERATIONAL SYSTEM
6. AMBIENT AIR TEMPERATURE FOR ALL UNITS 95 DEF F.

NOTE:
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EXHAUST FAN SCHEDULE

MARK	SERVES	FAN PERFORMANCE DATA PRIMARY EXHAUST (CFM)	INLET E.S.P. (IN. W.G.)	FAN RPM	FAN DISCHARGE	IMPELLER DRIVE	MOTOR DATA MOTOR HP	BRAKE (HP)	MOTOR FLA (AMPS)	ELECTRICAL DATA VOLTS	PHASE	HZ	MANUFACTURER OR EQUIVALENT	MODEL	REMARKS
EF-1	MENS	575	.5	1686	INLINE	DIRECT	1/8	.12	2.8	115	1	60	GREENHECK	SQ-95-VG	1
EF-2	WOMANS	575	.5	1686	INLINE	DIRECT	1/8	.12	2.8	115	1	60	GREENHECK	SQ-95-VG	1

REMARKS:
1. PROVIDE WITH VARI-GREEN ECM MOTOR CONTROL - DIAL ON FAN HOUSING, DISCONNECT SWITCH, THERMAL OVERLOAD PROTECTION, GRAVITY DAMPER,
   INSULATED HOUSING (1"), VIBRATION ISOLATORS AND BRACKETS, FLEXIBLE DUCT CONNECTIONS, AND WIRING PIGTAIL.

NOTE:
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DIFFUSER, REGISTER AND GRILLE SCHEDULE

MARK:	TYPE:	MAX. P.D. (IN. WG.):	MAX. N.C.:	MAXIMUM CFM:	MANUFACTURER AND MODEL NUMBER:	REMARKS:
R-1	REGISTER	0.15	20	SEE PLANS FOR CFM AND SIZE	TITUS 350FSF1 OR EQUIVALENT	3/4" BLADE SPACING, FIXED SINGLE DEFLECTION AT 35 DEGREE ANGLE, BLADES PARALLEL TO LONG DIMENSION ALUMINUM FRAME AND BLADES, CONCEALED SCREW MOUNTING, WHITE FINISH, COORDINATE WITH CEILING / WALL TYPE BOTTOM HINGE, QUARTER-TURN FASTENER, 1" FILTER SLOT
R-2	REGISTER	-0.1	20	SEE PLANS FOR CFM AND SIZE	TITUS 350FLF1 OR EQUIVALENT	3/4" BLADE SPACING, FIXED SINGLE DEFLECTION AT 35 DEGREE ANGLE, BLADES PARALLEL TO LONG DIMENSION, ALUMINUM FRAME AND BLADES, CONCEALED SCREW MOUNTING, WHITE FINISH, COORDINATE WITH CEILING / WALL TYPE PRIOR TO ORDERING CONFIRM MANUFACTURER RECOMMENDED INSTALLATION
R-3	REGISTER	-0.1	20	SEE PLANS FOR CFM AND SIZE	TITUS 33RL OR EQUIVALENT	1/2" BLADE SPACING, FIXED SINGLE DEFLECTION AT 38 DEGREE ANGLE, BLADES PARALLEL TO LONG DIMENSION, HEAVY DUTY STEEL, 16 GAUGE BORDER AND 14 GAUGE BLADES, CONCEALED SCREW MOUNTING, WHITE FINISH, COORDINATE WITH WALL TYPE
DL-1	DRUM LOUVER	0.15	20	SEE PLANS FOR CFM AND SIZE	TITUS DL-SV OR EQUIVALENT	ADJUSTABLE HORIZONTAL AND VERTICAL THROW, SPLIT VANES, ALUMINUM DRUM , COORDINATE WITH WALL TYPE PRIOR TO ORDERING CONFIRM MANUFACTURER RECOMMENDED INSTALLATION

NOTE:
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HEATER SCHEDULE

MARK	MANUFACTURER OR EQUIVALENT	MODEL	WATTS	BTU PER HR.	CFM	MIN CKT AMPS. HEATER AMPS	ELECTRICAL	MAX THROW
EH-1	QMARK	MWUH5004	2500	8533	270	10.4 13	240/1/60	16 FT
EH-2	QMARK	MWUH5004	2500	8533	270	10.4 13	240/1/60	16 FT

NOTE:
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FAN COIL SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	PRESSURE	BLOWER TYPE	CIRCUIT 1 MOCP	CURCUIT 2 MOCP	ELECTRIC HEAT	POWER SUPPLY
FC-1	CARRIER	FJ4DNXB36L00	1127.0	.5 IN WG	DIRECT DRIVE	60	50	20 KW	240/1/60
FC-2	CARRIER	FJ4DNXB36L00	1127.0	.5 IN WG	DIRECT DRIVE	60	50	20 KW	240/1/60
FC-3	CARRIER	FJ4DNXB36L00	1127.0	.5 IN WG	DIRECT DRIVE	60	50	20 KW	240/1/60

NOTE:
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COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

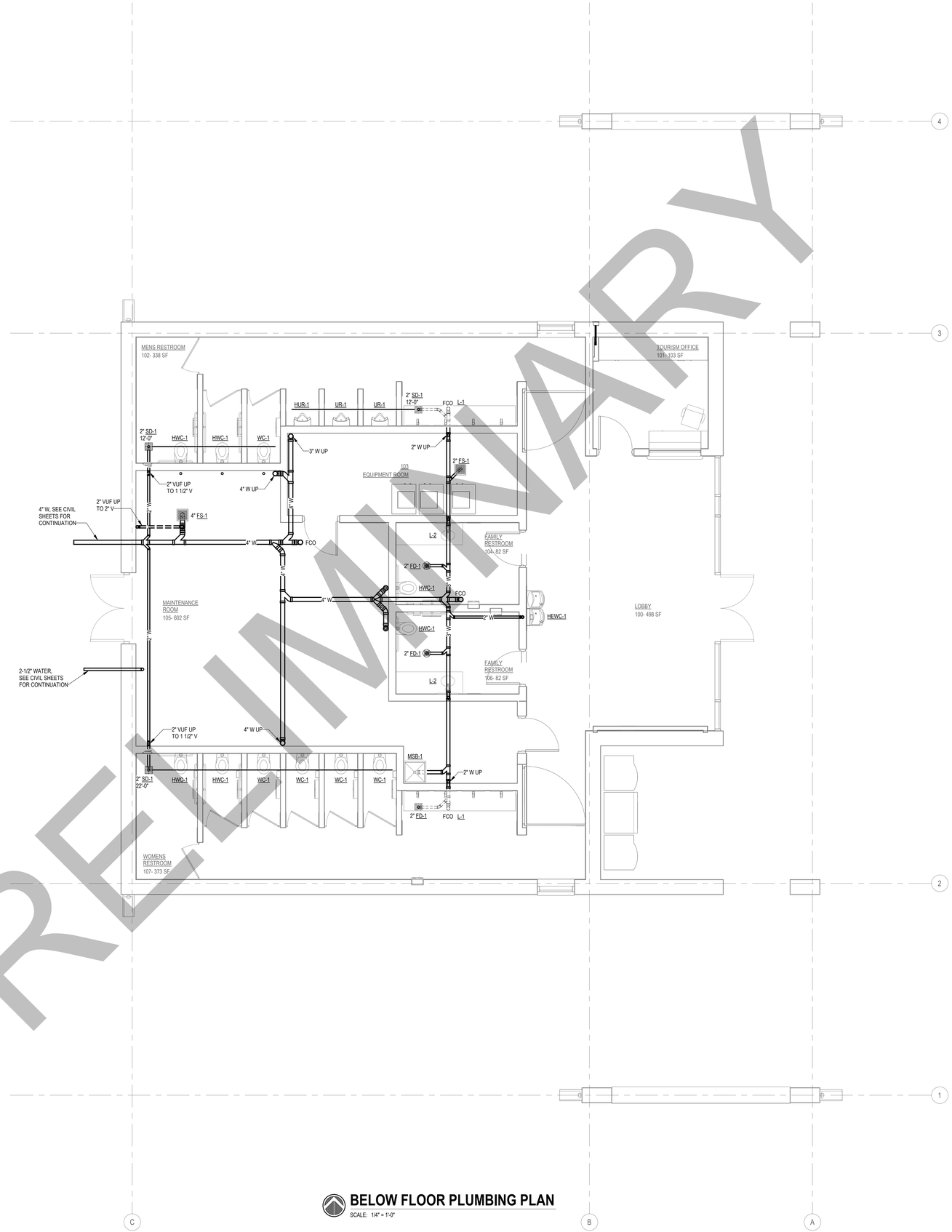
May 15, 2023

PROFESSIONAL MECHANICAL ENGINEER
JEFFREY P. SLATTERY
E-18541
5/15/23
STATE OF NEBRASKA

Preliminary

Mechanical Schedules

M3.01



BELOW FLOOR PLUMBING PLAN

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

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

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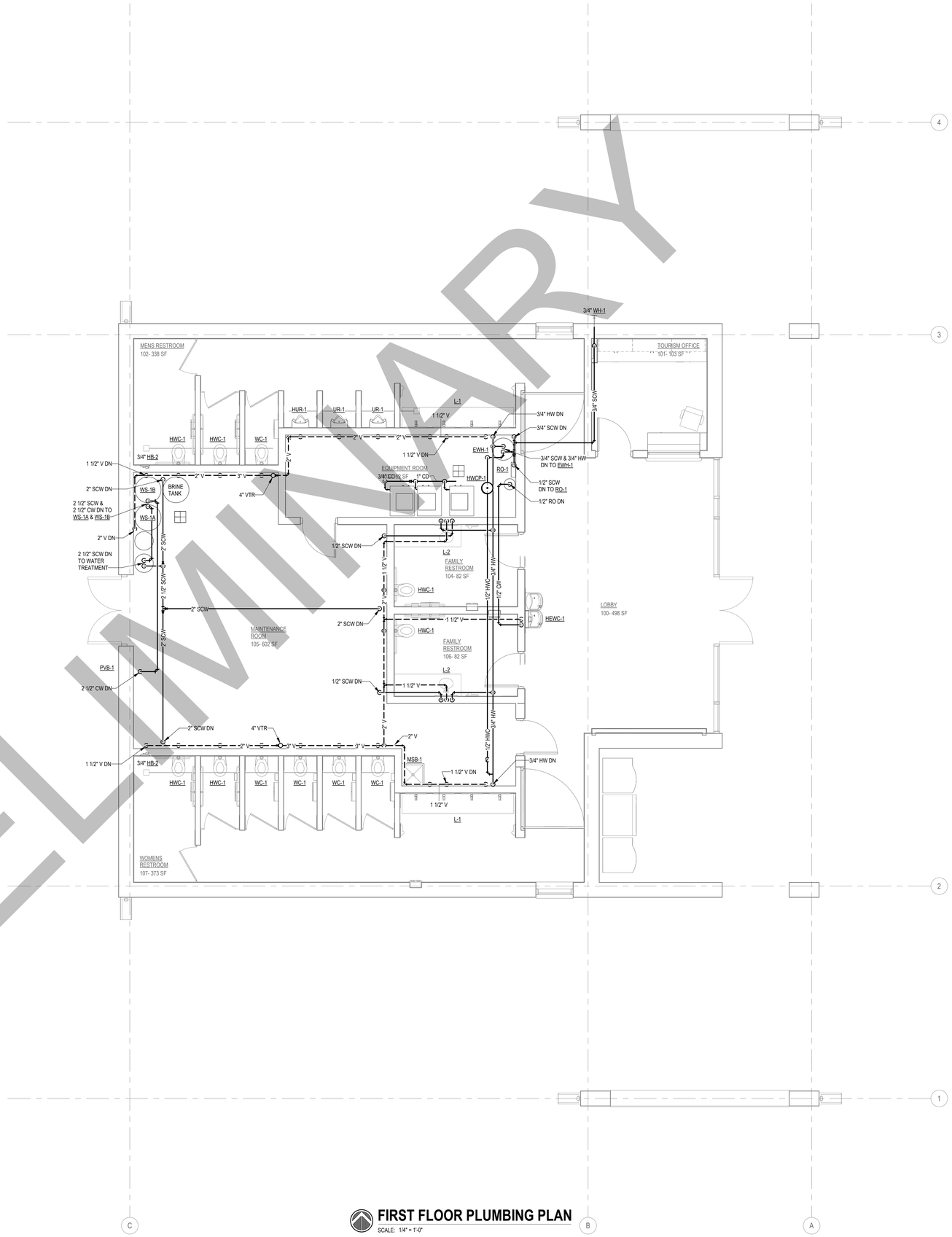
Below Floor Plumbing Plan

P1.01

Plot Time Stamp: 5/15/2023 10:00:13 AM
File Location/Name: C:\(1) Revit Projects\2022\508020-SRSWB-M22_eric.nelson@clarkenersen.com.rvt



FIRST FLOOR PLUMBING PLAN

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

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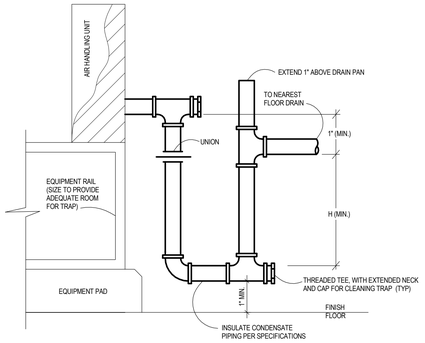
Preliminary

First Floor Plumbing Plan

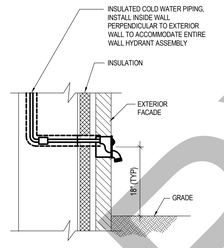
P1.02



1 AHU (BLOW-THROUGH TYPE) CONDENSATE DRAIN TRAP DETAIL

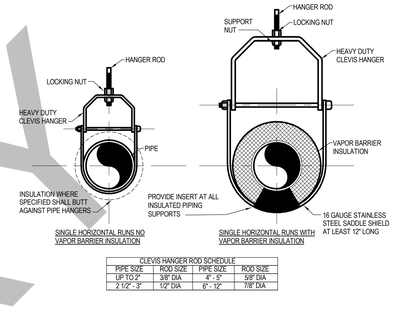
NO SCALE

NOTE: H = FAN OUTLET PRESSURE + 1". VERIFY VALUE WITH MANUFACTURER.



2 WALL HYDRANT DETAIL

NO SCALE

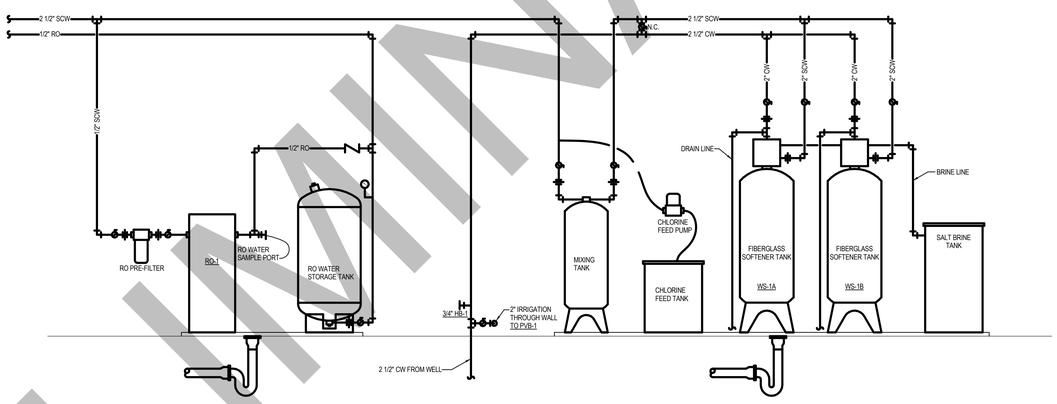


CLEVIS HANGER ROD SCHEDULE

PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA	4" - 5"	5/8" DIA
2 1/2" - 3"	1/2" DIA	6" - 12"	7/8" DIA

3 TYPICAL PIPE HANGER DETAIL

NO SCALE



4 DOMESTIC WATER TREATMENT PIPING SCHEMATIC

SCALE: NO SCALE

7 - #

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P2.01

Plot Time Stamp: 5/15/2023 10:00:15 AM
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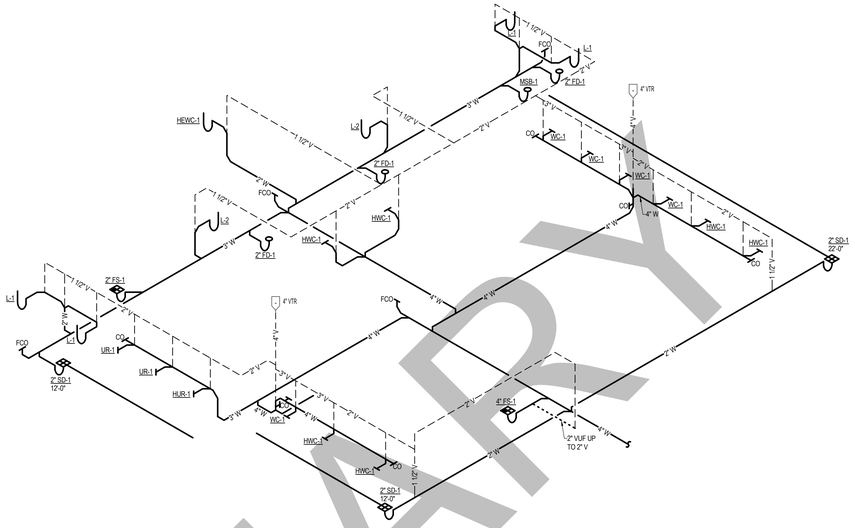
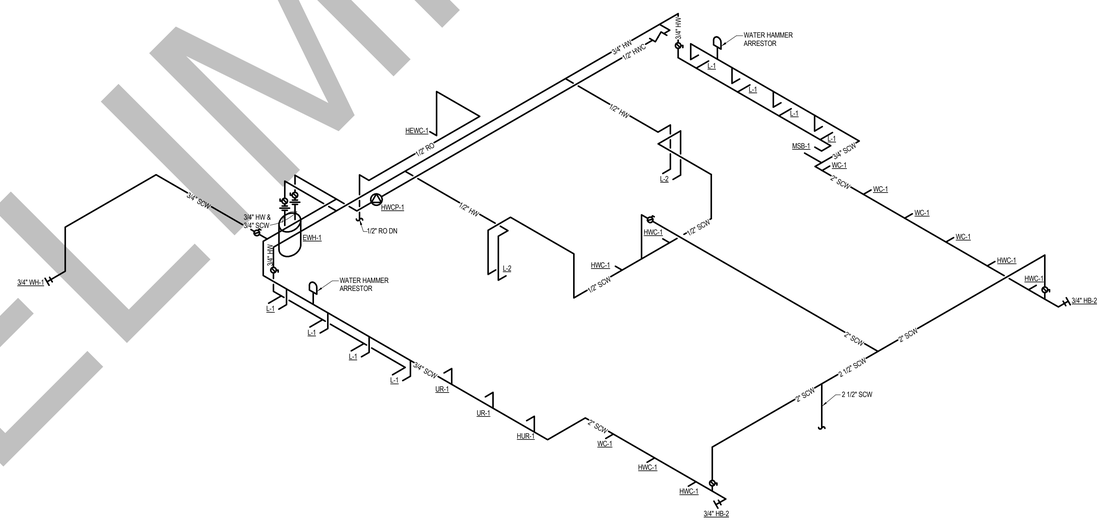


WASTE & VENT RISER DIAGRAM

NO SCALE



DOMESTIC WATER RISER DIAGRAM

NO SCALE

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Riser Diagrams

P3.01

WATER SOFTENER SCHEDULE

MARK	SERVES	TYPE	EWT	OPERATING CONDITIONS PEAK FLOW GPM	PEAK FLOW WPD	CONT. FLOW GPM	CONT. FLOW WPD	EQUIPMENT SIZE RESIN F*T^3	SOFTENER TANK	BRINE TANK	EXCHANGE CAPACITY KILOGRAINS @ LB SALT	ELECTRICAL DATA VOLTS	PHASE	HZ	MANUFACTURER OR APPROVED EQUIVALENT	MODEL	REMARKS
WS-1A	DOMESTIC HOT WATER	DUPLEX	40 F	60	25 PSI	40	15 PSI	15	31"x73"	31"x49"	375/10	120	1	60	AQUA SYSTEMS	1500	1,2,3,4,5,6,7,8,9
WS-1B	DOMESTIC HOT WATER	DUPLEX	40 F	60	25 PSI	40	15 PSI	15	31"x73"	31"x49"	375/10	120	1	60	AQUA SYSTEMS	1500	1,2,3,4,5,6,7,8,9

REMARKS:
1. TANK CONSTRUCTION SHALL BE REINFORCED POLYESTER.
2. PROVIDE A POLYETHYLENE BRINE TANK
3. PROVIDE WITH A FULLY INTEGRATED PROGRAMMABLE MICROPROCESSOR DRIVEN ELECTRONIC CONTROLLER TO AUTOMATICALLY CYCLE THE MAIN OPERATING VALVE THROUGH THE REGENERATION SEQUENCE.
4. 100 PSI RATED
5. WATER SOFTENER SHALL BE INSTALLED AND SET UP BY EQUIPMENT SUPPLIER PER MANUFACTURER RECOMMENDATIONS.
6. DUPLEX PROGRESSIVE/WATER METER/DEMAND.
7. 1344-SS RETENTION TANK 13"X44". 1-1/2" CONNECTIONS, 66 GPM FLOW RATE.
8. 02111062 STENNER ECON PUMP & 15 GALLON TANK ASSEMBLY.
9. ALL CHEMICAL FEEDERS MUST HAVE PRIMARY AND SECONDARY INTERCONNECT CONTROL DEVICES TO PREVENT OVER FEEDING. WHERE APPLICABLE, CHEMICAL FEEDERS MUST BE ELECTRICALLY INTERCONNECTED WITH THE WELL PUMP AND ALSO BE PROVIDED WITH SECONDARY CONTROL DEVICES.

NOTE:
THE SCHEDULED PRODUCT IS SPECIFIED AS A BASIS OF DESIGN AND DOES NOT GUARANTEE IT COMPLIES WITH THE BUY AMERICA ACT AS STATED IN SPECIFICATION SECTION 01 20 00 "BUY AMERICA".
BASIS OF DESIGN PRODUCTS MUST BE VERIFIED AS BEING COMPLIANT WITH THE BUY AMERICA ACT IN ADDITION TO MEETING PERFORMANCE REQUIREMENTS AS SPECIFIED IN THIS SECTION AND ANY OTHER RELATED SECTIONS.

PLUMBING FIXTURE AND EQUIPMENT CONNECTION SCHEDULE

MARK	FUNCTION		MANUFACTURER AND MODEL	WASTE	VENT	HW	SCW
L-1	FOUR STATION LAVATORY	LAVATORY:	SLOAN MODEL DSWD-8000 OR APPROVED EQUIVALENT SOLID SURFACE FOUR STATION WEIR DECK WITH TWO DRAINS AND FOUR SETS OF FAUCET HOLES. TOTAL LENGTH TO BE 10'-0". COLOR TO BE DUPONT CORIAN SILVER BIRCH.	2"	1-1/2"	1/2"	1/2"
		FAUCET (FOUR):	SLOAN MODEL EFX-600.202.0010, OR APPROVED EQUIVALENT, LINE POWERED SENSOR OPERATED WITH BATTERY BACKUP. BELOW DECK MIXING VALVE, 1.5 GPM SPRAY HEAD.				
		TRAP (TWO):	MINIMUM 17 GAUGE CHROME PLATED CAST BODY WITH ESCUTCHEON.				
		DRAIN (TWO):	CHROME PLATED GRID DRAIN.				
		SUPPLIES (FOUR SETS):	LEAD FREE CHROME PLATED LOOSE KEYSTOP VALVES WITH DEEP ESCUTCHEON PLATES.				
		REMARKS:	SEE NOTE #2				
L-2	COUNTERTOP LAVATORY	LAVATORY:	SOLID SURFACE COUNTERTOP WITH INTEGRAL SINK BASIN BY THE GENERAL CONTRACTOR.	2"	1-1/2"	1/2"	1/2"
		FAUCET:	SLOAN MODEL EFX-600.202.0010, OR APPROVED EQUIVALENT, LINE POWERED SENSOR OPERATED WITH BATTERY BACKUP. BELOW DECK MIXING VALVE, 1.5 GPM SPRAY HEAD.				
		TRAP:	MINIMUM 17 GAUGE CHROME PLATED CAST BODY WITH ESCUTCHEON.				
		DRAIN:	CHROME PLATED GRID DRAIN.				
		SUPPLIES:	LEAD FREE CHROME PLATED LOOSE KEYSTOP VALVES WITH DEEP ESCUTCHEON PLATES.				
		REMARKS:	SEE NOTE #2				
(H)UR-1	URINAL (HANDICAPPED)	FIXTURE:	KOHLER MODEL K-4991-ERSS BARDON OR EQUIVALENT, WHITE VITREOUS CHINA, INTEGRAL TRAP, 3/4" REAR SPUD, ELONGATED LIP, 1 GAL. PER FLUSH.	2"	1-1/2"		3/4"
		VALVE:	SLOAN ROYAL MODEL 195-1 ES-S TMO OR APPROVED EQUIVALENT CONCEALED DIAPHRAGM HARD WIRED SENSOR OPERATED WITH HYDRAULIC METAL PUSH BUTTON ASSEMBLY FOR TRUE MECHANICAL NON HOLD OPEN OVERRIDE.				
		CARRIER:	CONCEALED WALL CARRIER.				
(H)WC-1	WATER CLOSET (HANDICAPPED)	FIXTURE:	KOHLER MODEL K-4323 KINGSTON OR EQUIVALENT, 1.6 GAL PER FLUSH, WHITE VITREOUS CHINA, WALL MOUNTED, SIPHON JET WITH 1-1/2" REAR SPUD.	4"	2"		1"
		VALVE:	SLOAN ROYAL MODEL 140-1.6 ES-S TMO OR APPROVED EQUIVALENT CONCEALED DIAPHRAGM HARD WIRED SENSOR OPERATED WITH HYDRAULIC METAL PUSH BUTTON ASSEMBLY FOR TRUE MECHANICAL NON HOLD OPEN OVERRIDE.				
		SEAT:	WHITE, OPEN FRONT, HEAVY DUTY COMMERCIAL GRADE, NO LID ON SEAT.				
		CARRIER:	WALL HUNG, CONCEALED WALL CARRIER.				
HEWC-1	ELECTRIC WATER COOLER	COOLER:	ELKAY MODEL EZSTLR8WS OR EQUIVALENT, BI-LEVEL PUSH BAR OPERATION, STAINLESS STEEL FINISH, 8 GPH OF 50 DEG. F WATER CAPACITY WITH BOTTLE FILLING STATION. 1/5 HP COMPRESSOR MOTOR. FIVE YEAR COMPRESSOR WARRANTY 120 VOLT, 1 PHASE, 60 HERTZ.	1-1/2"	1-1/2"		1/2"
MSB-1	MOP SERVICE BASIN	SINK:	FIAT MODEL MSB-2424 OR EQUIVALENT. MOLDED STONE, 24" X 24" X 10" SIZE. PROVIDE COMBINATION DOME STRAINER WITH LINT BASKET, DRAIN BODY. PROVIDE MOP & HOSE HANGER	3"	1-1/2"	1/2"	1/2"
		FAUCET:	KOHLER MODEL K-8904 OR EQUIVALENT CHROME PLATED WITH VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL SUPPORT.				
FS-1	FLOOR SINK	DRAIN:	JAY R. SMITH MODEL 3150Y OR EQUIVALENT. CAST IRON BODY WITH FLANGE, 8" DEEP ACID RESISTANT EPOXY INTERIOR. INTEGRAL CLAMPING COLLAR, SEEPAGE OPENING, 3/4 NICKLE BRONZE 12"x12" GRATE, DOME STRAINER, NO HUB CONNECTION.	(SEE PLANS)	(SEE PLANS) (SEE NOTE 1)		
FD-1	FLOOR DRAIN (FINISHED AREAS)	DRAIN:	JAY R. SMITH MODEL 2005Y OR EQUIVALENT. CAST IRON BODY WITH FLANGE. INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS, 5" DIAMETER SATIN NICKLE BRONZE STRAINER, NO HUB CONNECTION.	(SEE PLANS)	(SEE PLANS) (SEE NOTE 1)		
SD-1	SLOT DRAIN	DRAIN:	JOSAM MODEL 47122 OR APPROVED EQUIVALENT FABRICATED STAINLESS STEEL SLOT DRAIN. 5/16" SLOT WITH END RUN OUTLET. OUTLET DRAIN TO BE PROVIDED WITH VANDAL PROOF ANTI SLIP MESH GRATE. 2" OUTLET, SEE PLANS FOR LENGTH	2"	(SEE PLANS) (SEE NOTE 1)		
HB-1	HOSE BIBB	BIBB:	WOODFORD MODEL 26, C INLET WALL FAUCET OR EQUIVALENT. ASSE 1052 APPROVED TWO CHECK BACKFLOW PREVENTER, BRASS FINISH, 3/4" HOSE CONNECTION, WHEEL OPERATION HANDLE.				3/4"
HB-2	HOSE SUPPLY BOX	BIBB:	ACORN MODEL 8151 OR EQUIVALENT SINGLE TEMPERATURE WITH VACUUM BREAKER RECESSED 18 GAUGE TYPE 304 STAINLESS STEEL BOX WITH FLANGE AND LOCKABLE DOOR.				3/4"
WH-1	WALL HYDRANT	HYDRANT:	WOODFORD MODEL 67 FROST PROOF AUTOMATIC DRAINING, BACKFLOW PREVENTER, FROST PROOF HYDRANT WITH ASSE 1052 APPROVED TWO CHECK BACK FLOW PREVENTER, CHROME FINISH, 3/4" HOSE CONNECTION STAINLESS STEEL STEM, LOOSE KEY OPERATING HANDLE, SEE NOTE 3				3/4"
EWH-1	ELECTRIC WATER HEATER	HEATER:	A. O. SMITH MODEL DEN-52 OR EQUIVALENT, 52 GALLON STORAGE TANK, 15 GPH @ 80 DEG. F RISE. DUAL NON SIMULTANEOUS 3,000 WATT ELEMENTS, 208 VOLT / 1 PH / 60 HZ.			3/4"	3/4"
PVB-1	IRRIGATION PRESSURE VACUUM BREAKER	VACUUM BREAKER:	WATTS MODEL 800 OR EQUIVALENT BRONZE BODY VACUUM BREAKER. 2" CONNECTION SIZE, 50 GPM WATER FLOW RATE.				2"
RO-1	REVERSE OSMOSIS SYSTEM	REVERSE OSMOSIS:	REO-PURE MODEL LS3-225 GPD OR APPROVED EQUIVALENT. 115 VOLT, 750 GALLON A DAY PRODUCTION. FULLY INTEGRATED RACK MOUNTED SYSTEM WITH TARGET TDS MONITORING. PROVIDE WITH DM-2A DIGITAL INLINE LCD DUAL METER FOR LP3 RO, FLEXWAVE SSRO-35 STORAGE TANK AND AQUAJET VARIABLE SPEED PUMP 0.3 TO 4 GPM MODEL 5501-IEN2-V77D-L8, 1/2" IO.				1/2"
HWCP-1	HOT WATER CIRCULATING PUMP	PUMP:	BELL & GOSSETT MODEL E3-4V-BTXYZ OR EQUIVALENT. 3 GPM AT 4 FT OF HEAD, 10 WATTS, PRE-WIRED 6 FT ELECTRICAL PLUG, E3 TIMER.				

REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FIXTURE MOUNTING HEIGHTS OR MOUNT AT MANUFACTURERS RECOMMENDED HEIGHTS.

PLUMBING SCHEDULE NOTES:

1) MINIMUM SIZE OF UNDER SLAB VENT SHALL BE 2".

2) ALL HANDICAPPED LAVATORIES (HL-#) & ALL CL-1'S SHALL BE INSTALLED WITH P-TRAP AND SUPPLY INSULATION. PROVIDE TRUEBRO MODEL #102 OR EQUAL WITH P-TRAP INSULATION, HOT AND COLD WATER ANGLE VALVE AND SUPPLY INSULATION FABRICATED FROM CLOSED CELL VINYL, 3/16" WALL THICKNESS, "K" VALUE OF 1.17 (BTU*IN/HR*FT^2*DEG F).

3) CONTRACTOR SHALL VERIFY ALL WALL THICKNESS AND SHALL ORDER APPROPRIATE OPERATING ROD ASSEMBLY.

4) SUPPLY STOPS MAY BE ELIMINATED AT THE CONTRACTORS OPTION WHEN PLUMBING FIXTURE IS LOCATED IN A CABINET AND THE FIXTURE HAS SHUT-OFF VALVES TO ISOLATE THE FIXTURE FROM THE OTHER FIXTURES. ESCUTCHEONS MAY BE ELIMINATED WHERE THE SUPPLIES PENETRATE THE BOTTOM OF CASEWORK.

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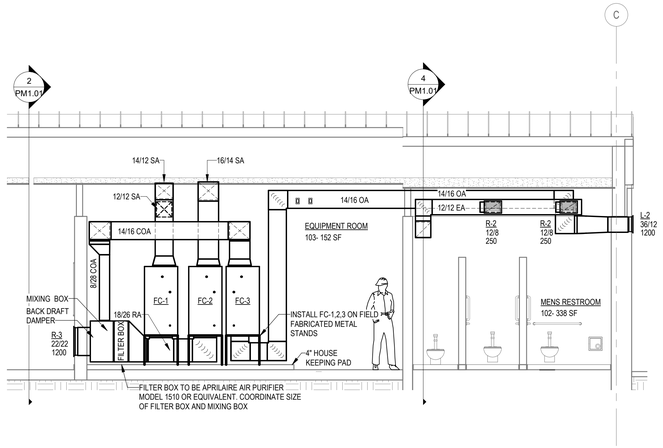
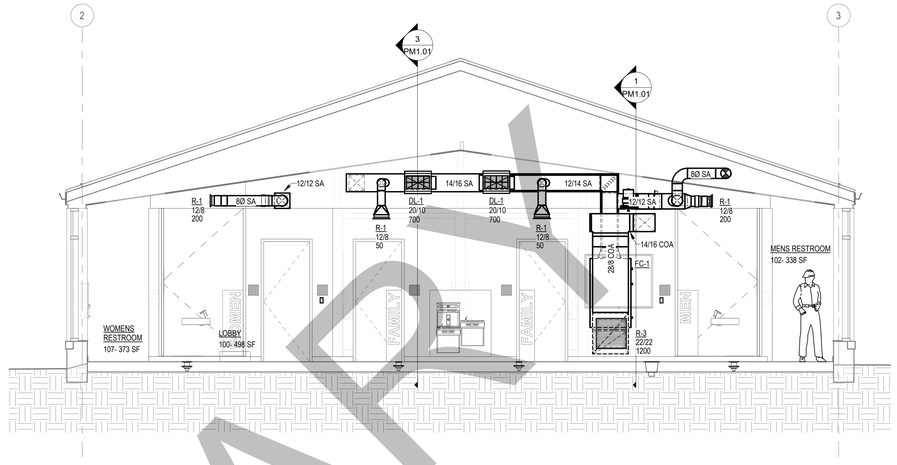
P4.01



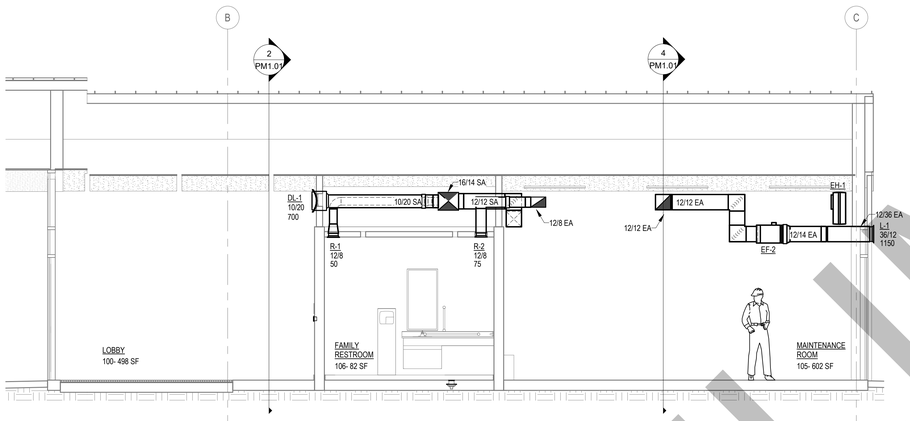
1 MECHANICAL SECTION @ EQUIPMENT ROOM

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



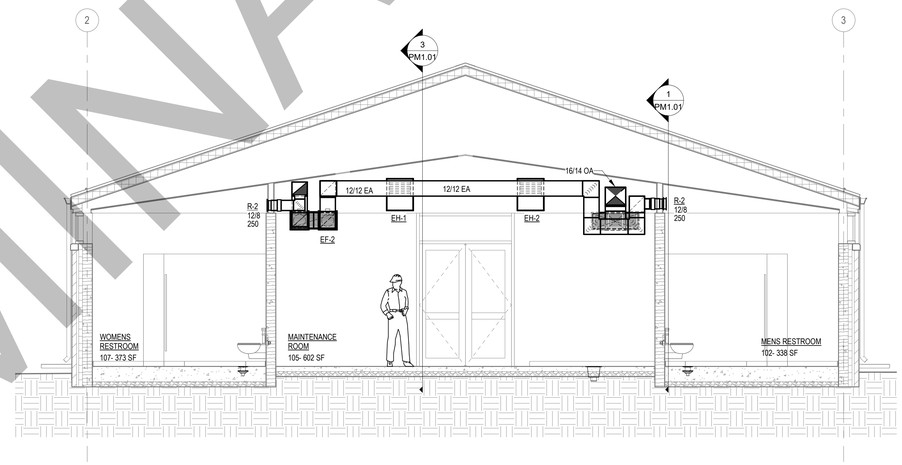
2 MECHANICAL SECTION AT LOBBY

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



3 MECHANICAL SECTION AT LOBBY, FAMILY RR AND MAINT RM.

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



4 MECHANICAL SECTION AT MAINTENANCE ROOM

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

5 MECHANICAL SECTION AT REAR ENTRY

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

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Mechanical Sections

PM1.01

GENERAL STRUCTURAL NOTES AND DESIGN CRITERIA

STRUCTURAL DESIGN CRITERIA

BUILDING CODE

International Building Code, 2018 Edition

VERTICAL LOADS

Use or Occupancy (2)	Dead Load (1)(5)	Live Load (1)
Floors and Stairs on Grade	50 psf	200 psf
Roofs	25 psf	30 psf (3)(4)

NOTES:

(1) Uniform load to be applied over the full tributary area of each structural member.
(2) See Framing Plans for concentrated loads from mechanical units, hoists and other equipment.
(3) Where applicable, drifting was considered.
(4) Where applicable, 5 psf for rain-on-snow is included.
(5) Self-weight of framing structure and elevated slabs not included.
(6) Includes 15 psf partition (non-reducible) live load.

ROOF SNOW LOADS

Ground Snow Load	P_g = 20 psf
Snow Exposure Factor	C_e = 1.0
Snow Load Importance Factor	I_s = 1.0
Thermal Factor	C_t = 1.0
Flat Roof Snow Load	P_f = 14 psf

DESIGN SOIL BEARING PRESSURES

Maximum Vertical Pressures	2000 psf

SEISMIC DESIGN FACTORS

Site Class Definition	D
Risk Category	II
Importance Factor	I_e = 1.0
Mapped Spectral Response Accelerations	
Short Period Spectral Response Acceleration (0.2 seconds)	S_S = .09
1 Second Spectral Response Acceleration	S_1 = .038
Maximum Considered Spectral Response Acceleration	
Short Period Spectral Response Acceleration (0.2 seconds)	S_{DS} = .096
1 Second Spectral Response Acceleration	S_{D1} = .06
Seismic Design Category	
Short Period Response Acceleration	A
1 Second Response Acceleration	A
Analysis Procedure	Equivalent Lateral Force Procedure
Basic Seismic-Force-Resisting System	Ordinary Reinforced Masonry Shear Walls

WIND DESIGN FACTORS

Wind Speed Region	
Basic Design Wind Speed	V = 110 mph
Enclosure Classification	Enclosed
Exposure	
Mean Roof Height	h = 20 ft

REQUIRED IBC SPECIAL STRUCTURAL INSPECTIONS

1. All Special Structural Inspections shall be provided by the Owner, per IBC 2018, Chapter 17.

STRUCTURAL MATERIALS

CONCRETE

Compressive strength (strength of a standard 6" diameter x 12" cylinder at 28 days):

USE	REQUIRED STRENGTH
Footings	4500 psi
Grade Beams, Topping Slabs, Slabs-On-Grade	4500 psi
Mechanical Pads, Sitework	4500 psi

NOMINAL UNIT WEIGHT: 145 pcf for normal-weight concrete.
CEMENT: ASTM C150, type I, type II or type IL
AGGREGATE: ASTM C33, except provide 47B aggregate mix as defined by the State of Nebraska Department of Roads.
ADMIXTURES: As approved. Do not use any admixtures containing more than 0.1 percent chloride ions.
ENTRAINED AIR: 2% to 4% by volume in concrete not exposed to freezing or thawing that is leveled by a laser screed. See SPECIFICATIONS for remaining concrete work.

CONCRETE MASONRY UNITS

ASTM C90, nominal weight (125 pcf), f'cmu = 1900 psi (net area)

MASONRY MORTAR AND GROUT

MORTAR: ASTM C270 Type S, f'mortar = 1800 psi
GROUT: ASTM C476, f'g = 2000 psi

CONCRETE AND MASONRY REINFORCING

BARS: ASTM A615, deformed, grade 60 typical
WELDED WIRE MESH: ASTM A185, flat sheets
MASONRY JOINT REINFORCING: Standard ladder-type with 9 gage wires, wire to conform to ASTM A951, galvanized after fabrication

WOOD

DIMENSION LUMBER
2" to 4" thick, 2" to 4" wide structural framing: #2 Hem-Fir or better
2" to 4" thick, 5" and wider structural framing: #2 Hem-Fir or better
BEAMS AND STRINGERS, POSTS AND TIMBERS
#1 Douglas Fir-Larch or better
SHEATHING
APA-Rated Sheathing, thickness, span index and exposure rating as shown
STRUCTURAL GLUED-LAMINATED TIMBER
Conform to the requirements of ANSI/AITC A190.1 (latest edition), combination symbol 24F-V8, with minimum allowable unit stresses as follows:
Fbx = 2400 psi, Fc = 1650 psi, Fvh = 265 psi
Ft = 1100 psi, Fcp = 650 psi, Ex = 1,800,000 psi

EARTHWORK

1. GENERAL. Except at footings adjacent to existing construction, footings and slabs on grade shall be placed on engineered fill on prepared subgrade. Requirements for earthwork, including excavation, fill and backfill, unless specifically contained in these notes and the SPECIFICATIONS shall be in accordance with the current edition of the International Building Code.

2. SITE CLEARING. All vegetation and other organic matter, pavement, existing construction and man-made fill (except as otherwise directed), and any other unsuitable material shall be removed from site and properly disposed of.

3. EXCAVATION AND PROTECTION OF EXCAVATIONS. Remove existing material as required to meet site grading elevations. Do not undercut existing construction. Provide positive surface drainage away from excavations and promptly remove any surface water which may enter the excavations. Remove any subgrade material and any previously placed fill or backfill which has been softened or otherwise damaged by moisture. Replace with properly placed and compacted fill or backfill. Slope sides of excavations as required for slope stability and provide barricades, lights and warning signs as necessary for the protection of existing property, construction personnel and the public.

4. PREPARATION OF SUBGRADE. After excavations have been completed and/or surface has been cleared and grubbed, the subgrade shall be scarified, disced or otherwise loosened to a minimum depth of 6 inches, moistened or dried as necessary (to within -2 to +2 percentage points of optimum moisture content), and compacted to not less than 95% of maximum density as determined by ASTM D1557 or ASTM D698, whichever is applicable.

5. FILL AND BACKFILL. All fill and backfill material shall be clean, free of organic or frozen matter, and any other unsuitable material, and is to be approved by the Architect before use. Site material may be used if it meets the specified material property requirements. If site material does not meet the requirements, use imported materials or a uniform mix of site and imported materials which do meet the specified requirements. See the SPECIFICATIONS for gradation, plasticity index and other fill material requirements.

6. PLACING AND COMPACTION OF FILL AND BACKFILL. See the SPECIFICATIONS for compaction requirements for fill and backfill. Perform compaction when the material to be compacted is at its optimum moisture content (+2 or -2 percentage points). Thoroughly mix water into the soil mass to be compacted so the moisture content of the soil is uniform. Perform compaction using appropriate equipment and methods as necessary to achieve the required density percentages without damage to existing construction. Do not use ponding, flooding, jetting or similar methods to aid in compaction.

7. QUALITY CONTROL. Maximum densities and optimum moisture contents shall be determined in accordance with ASTM D1557 or ASTM D698, whichever is applicable. Density of in-place material shall be determined in accordance with either ASTM D1556 (sand cone method), D6938 (nuclear method) or D2167 (rubber balloon method), whichever is applicable. Gradations of materials shall be determined in accordance with ASTM D422. Liquid limits, plastic limits and plasticity indices shall be determined in accordance with ASTM D4318. See the SPECIFICATIONS for additional requirements and testing schedule.

CONCRETE

1. GENERAL. Unless otherwise shown or specified, supply and construct concrete in accordance with ACI 318" Building Code Requirements for Structural Concrete" and ACI 301 "Specifications for Structural Concrete for Buildings". Except as otherwise shown, detail reinforcing in accordance with the latest edition of the Concrete Reinforcing Steel Institute (CRSI) Placing Manual.

2. REINFORCING. Hooks in reinforcing which are not otherwise detailed shall be standard ACI hooks. Splices in reinforcing which are not otherwise detailed shall be standard ACI Class B tension lap splices, but splice length shall not be less than 24 inches.

3. PLACEMENT OF REINFORCING AND OTHER ITEMS. Reinforcing, dowels, bolts and any other inserts shall be fastened securely into position before concrete is placed. Drilled-in expansion anchors shall not be used except where specifically shown on the drawings. The spacings shown for reinforcing and other anchorage items are maximums. Provide and install a sufficient number of items so that the spacings shown are not exceeded. The first and last items in a group of uniformly spaced items shall be located at not more than one-half the typical spacing nor 12 inches from the end of a structural element.

4. CONTINUITY OF HORIZONTAL REINFORCEMENT
   a. Footings, walls, turned-down slab edges: Bars shall be lapped not less than 36 bar diameters nor 24 inches. Except where bar lengths are given, reinforcing is to be continuous for the full length or width of member less required concrete covers. Do not splice transverse bars at footings. Additional reinforcing shall be provided at corners, intersections and other discontinuities as shown on the Drawings.
   b. Grade beams & continuous footings that run over the top of (or are integral with) pad footings shall have reinforcing that is continuous over (or through) the pad footings.
   c. Concrete slabs-on-grade: Welded wire mesh shall be lapped not less than one mesh nor 6 inches on all sides.

5. CONSTRUCTION JOINTS
   a. Slabs-on-grade: Control joints shall be located at 10'-0" on center each way maximum unless otherwise noted on drawings or as otherwise approved by the Architect.
   b. Footings, walls, turned-down slabs: Construction joints shall be placed at locations to be selected by the Contractor subject to the following restrictions. There shall be no construction joints within 5 feet of any corner or intersection. Construction joints in walls shall be offset from construction joints in footings by not less than 5 feet. Splices in reinforcing shall not be located within 5 feet of any construction joint in the concrete. Horizontal and vertical keyways not less than 2 inches deep by 4 inches wide shall be provided at all construction joints in walls and footings.

6. EMBEDDED PIPES AND CONDUITS. No pipes, conduits or any other items used by other trades except those shown on the Structural Drawings shall be embedded in concrete or pass through concrete members without the prior approval of the Architect/Engineer. See the SPECIFICATIONS for additional requirements.

7. CONCRETE COVER. Provide concrete cover over reinforcing as noted below. Tolerance on position of reinforcing is plus or minus 3/8".
   a. Concrete cast against and permanently exposed to earth: 3 inches
   b. Concrete cast in forms but exposed to earth or weather in service: 2 inches.
   c. Concrete cast in forms but not exposed to earth or weather:
      1) Walls and slabs: 1 inch
      2) Beams and columns
         i) primary reinforcement: 2 inches
         i) ties and stirrups: 1 1/2 inches

8. EXTERIOR FOOTINGS. The bottom of all exterior footings shall not be less than 42 inches below the lowest adjacent finished grade.

CONSTRUCTION PROCEDURES & SAFETY REQUIREMENTS

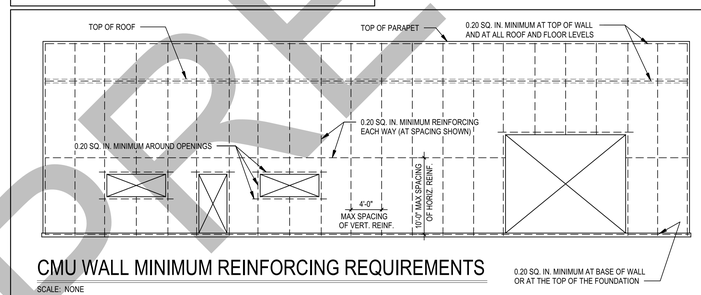
1. Comply with all applicable city, county, state and federal laws, including the occupational safety and health act (OSHA) and regulations adopted pursuant thereto.

2. The structural contract documents represent the finished structure. They do not indicate the means and methods of construction, unless noted or indicated otherwise.

3. Provide all measures necessary to protect the workers and all other persons during construction. Provide all necessary measures to avoid excessive stresses and to hold the structural elements in place during construction. Such measures shall include, but not be limited to: bracing, shoring for construction equipment, shoring for earth banks, forms, scaffolding, planking, safety nets, support and bracing for cranes and hoists, guying, etc...

4. Engage properly qualified persons to determine where and how temporary precautionary measures shall be used. Observation visits to the site by Structural Engineer's field representatives shall not include above noted items.

5. Supervise and direct the work so as to maintain sole responsibility for all construction means, methods, techniques, sequences, and procedures.



CMU WALL MINIMUM REINFORCING REQUIREMENTS

SCALE: NONE

WOOD

1. GENERAL. Except as otherwise shown, specified or noted, all dimension lumber framed construction shall be in accordance with the Conventional Construction Requirements in the Wood chapter of the current edition of the International Building Code. Material requirements for wood construction are given in the STRUCTURAL MATERIALS section on this sheet and in the SPECIFICATIONS.

2. WALL FRAMING
   a. Studs. Except as otherwise shown, studs shall be placed with their wide dimension perpendicular to the wall. Joints in studs are not permitted between support points. Studs shall have full bearing on plates or sills. Cuts or notches in studs shall not exceed 25% of the width of the stud. Edges of bored holes shall be at least 3/4 inch from the edge of a stud. Vertical center to center distance between adjacent holes in a stud or between the center of a hole and the edge of a cut or notch shall be not less than twice the nominal width of the stud (8 inches for 2x4 studs, 12 inches for 2x6 studs).
   b. Plates. Except as otherwise shown, bottom plates of stud walls shall be preservative single members and top plates shall be double members. Size of plates shall not be less than size of studs. See connection schedule below for bottom plate attachment. There shall be a minimum of two bolts per piece with one bolt located not more than 12 inches or less than 4 inches from each end of each piece. A properly sized nut and washer shall be tightened on each bolt to the plate. Top plates shall be installed to provide overlapping at corners and intersections and end joints shall be offset by not less than 4 feet.

3. ROOF FRAMING
   a. Joists. Joists shall be supported laterally at ends, at each support and at intervals not to exceed 12 feet on center by solid blocking or by nailing to headers or rim joists. Blocking for dimension lumber joists shall be the same depth as the joists and not less than 2 inches thick (nominal dimension). Blocking for manufactured solid web wood joists shall be of the type required by the manufacturer. Joists shall not be notched at ends or at points of support except as specifically shown. Diameters of holes drilled in the joists shall not exceed 1/1ten of the nominal depth of the joist unless approved reinforcing is applied at the holes.
   b. Openings. Where dimension of opening perpendicular to the direction of joist span is greater than joist spacing, provide double trimmer joists each side of opening. Where span of header joist is 4 feet or greater, provide double header joists. Tail joists framing into the side of trimmer joists shall be supported by framing connectors of approved type and size.

4. Connection Schedule. All nailing is to be done using common nails or deformed shank box nails. Except as specified in the following schedule, nailing shall be in accordance with the current edition of the International Building Code.

	CONNECTION	NAILING/BOLTING
a.	stud to sole plate	4-3d toenail or 2-16d end nail
b.	multiple studs, face nail each pair	16d @ 24" on center
c.	bridging or blocking to joist or stud	2-8d toenail each end
d.	top plate to stud, end nail	2-16d
e.	multiple plates, face nail each pair	16d @ 16" on center
f.	top plates at laps and intersections, face nail	2-16d
g.	built-up beams, three or more joists	20d @ 16" o.c. top and bot, e.f., staggered
h.	double joists	16d @ 16" o.c. top and bot, e.f., staggered
i.	continuous ledger to stud, face nail	2-16d at 2x4 or 2x6, 3-16d at 2x8 or 2x10
j.	ledger between studs	4-8d each end, toenail
k.	2x top plate to steel stud track	1/2" dia. A307 through bolts @ 32" o.c.
l.	2x top plate to cmu wall	1/2" dia. A307 through bolts w/ 6" embedment @ 48" o.c.
m.	2x top plate to steel beam	1/2" dia. A307 through bolts @ 48" o.c.
n.	bottom plate to foundation	1/2" dia. A307 through bolts w/ 8" embedment @ 48" o.c.

WOOD TRUSSES

1. GENERAL. Wood roof trusses shall be designed, fabricated and erected to resist the loads given below in accordance with with following criteria and the SPECIFICATIONS. Design calculations sealed by a licensed Professional Engineer shall be submitted to the Architect for review.

2. SPECIFICATIONS. Except where more restrictive requirements are shown on the Drawings, are listed below, or are contained in the local building code, metal plate connected wood roof trusses shall be designed, fabricated, handled and erected in accordance with the applicable provisions of the latest edition or revision of each of the following documents published by the Truss Plate Institute:
   a. "Design Specification for Metal Plate Connected Wood Roof Trusses"
   b. "Quality Standard for Metal Plate Connected Wood Trusses"
   c. "Commentary and Recommendations for Handling and Erecting Wood Trusses"
   d. "Commentary and Recommendations for Bracing Wood Trusses"

3. SUBMITTALS. Design, materials, fabrication and erection are subject to the approval of the Architect/Engineer. Design calculations showing, as a minimum, the calculated stresses in all members and calculated deflections under all loading conditions, locations of splices in chord members, and design of connections shall be submitted to the Architect/Engineer for review. Fabrication and erection drawings showing truss designations, locations, member sizes, metal plate sizes, and orientation, bracing requirements, and supplemental framing if required shall be submitted to the Architect/Engineer for review prior to beginning fabrication of the trusses.

4. GEOMETRY. Spacing of trusses shall be as shown on the Roof Framing Plan and Architectural Drawings. Truss layout shall be coordinated with ceiling and lighting layouts. Outer configuration of trusses shall be as shown in the truss elevations. Configuration of the diagonal members may be designed by the Fabricator, however, configuration chosen must allow passage of equipment within attic space.

5. DESIGN ASSUMPTIONS. Top and bottom chords of trusses shall be designed to resist both axial and flexural loads. Chords shall be assumed to be continuous except at splices. Web members shall be assumed to be pinned at their ends. Roof trusses may be designed for 115% of nominal unit stresses of wood under their full loads and for 133% of nominal unit stresses under combined gravity and lateral (wind or seismic) loads. All connections shall be designed to safely resist and transmit not less than 125% of design forces. Connection plates between members shall be assumed to transmit shear and axial loads only. Truss deflections shall be calculated using accepted engineering methods. Maximum deflections shall not exceed L/240 under full load and L/360 under live load only. L is the span length; center to center of supports.

6. ROOF TRUSS DESIGN LOADS
   a. Unit dead loads: 15 psf at top chord, 10 psf at bottom chord
   b. Unit live load: 30 psf
   c. Wind uplift force at building: (-)22 psf, Use top cord dead load equal to 10 psf in load combinations which include wind uplift.
   d. Wind uplift force at canopy: (-)30 psf, Use top cord dead load equal to 5 psf in load combinations which include wind uplift.
   e. Mechanical equipment loads: See Roof Framing Plan

7. MISCELLANEOUS FRAMING. Carrier or header trusses supporting standard roof trusses shall be designed in accordance with the above criteria to resist the reactions from the standard roof trusses.

8. MISCELLANEOUS FRAMING. Refer to Code Compliance sheet (if included) for draftstop locations. The General Contractor shall be responsible for coordinating penetrations through draftstops, blocking, etc. per IBC requirements.

CONCRETE MASONRY

1. GENERAL. Except as otherwise shown or specified construct masonry in accordance with the requirements for low-lift grouted construction for reinforced hollow unit masonry contained in the current edition of the International Building Code and comply with TMS 602/ACI 530.1/ASCE 6 "Specifications for Masonry Structures" (see SPECIFICATIONS for excluded sections). Special inspection as defined in the International Building Code is not required for this project

2. MASONRY UNITS. Except as otherwise shown provide concrete masonry units with manufacturer's standard finishes and colors at all locations, including construction below grade, where masonry will not be exposed to view after construction is complete. In other locations provide units with surface textures and colors as indicated on the Architectural drawings.

3. BONDING. Except as otherwise shown, lay masonry with vertical joints between units in each course to be placed midway between the vertical joints in the course below (half running bond). Lay units using face shell bedded head and bed joints.

4. VERTICAL REINFORCING
   a. 6 and 8 inch thick (nominal) walls. #5 at 32 inches on center in typical runs, #5 at 8 inches on center at corners, intersections, ends of walls, control joints and other discontinuities as shown in the details, unless noted otherwise. Provide additional reinforcing as shown in the Foundation and Framing Sections. Vertical reinforcing shall be continuous from support to support.
   b. 10 and 12 inch thick (nominal) walls. #5 at 24 inches on center in typical runs, #5 at 8 inches on center at corners, intersections, ends of walls, control joints and other discontinuities as shown in the details, unless noted otherwise. Provide additional reinforcing as shown in the Foundation and Framing Sections. Vertical reinforcing shall be continuous from support to support.

5. WALLS. All masonry walls shall bear on a continuous reinforced concrete footing.

6. HORIZONTAL REINFORCING
   a. Bond beams. Provide bond beams with 1 - #5 continuous horizontal bar in 6 and 8 inch walls and 2 - #5 continuous horizontal bars in 10 and 12 inch walls at joist and beam bearing elevations, at tops of walls, structurally connected roof and floor levels, in the top of the foundations when doweled into walls and at other locations shown on the drawings. Step bond beams as required to follow the slope of the roof along nonbearing walls. Steps shall not be more than 8 inches in height and bond beams shall be overlapped not less than 32 inches at steps. Lap bars not less than 24 inches and maintain continuity at corners and intersections by providing corner bars.
   b. Joint Reinforcing. Provide masonry joint reinforcing of the type specified at 16 inches on center (every other course) for the full height of the wall. At corners and intersections, provide prefabricated items to maintain continuity. Lap reinforcing not less than 12 inches in straight runs.

7. LINTEL BEAMS. All openings in masonry greater than 12" wide shall have a steel or bond beam lintel. See framing plans and sections for locations and designations of lintel beams. See schedule, notes and details for size and other requirements.

8. OPENINGS AND RECESSES. All openings and recesses larger than 8 inches square shall be built into masonry work as it progresses and shall not be cut in after work is completed. Locations and sizes of masonry openings not shown on the Structural Drawings shall be confirmed with the Architect before construction. Except as specifically shown otherwise there shall be not less than 16 inches of full thickness masonry construction between adjacent openings or recesses in masonry. Horizontal wall reinforcement of not less than 1 - #4 bar shall be provided at the bottom and top of wall openings and shall extend not less than 24 inches or less than 40 bar diameters past the opening.

9. ANCHOR BOLTS AND EXPANSION ANCHORS. Drilled-in expansion anchors shall not be used except where specifically shown on the Drawings. Anchor bolts and expansion anchors shall be firmly anchored in grout with both the cell containing the anchor and the cell below grouted solid. Where anchors are uniformly spaced, the first and last anchors shall be spaced at not more than half the typical spacing nor 16 inches form the end of a wall or beam.

10. CONTROL JOINTS. Control joints in masonry walls shall be located where shown on the Elevations or if not shown, at intervals not to exceed 15 feet on center, locations to be selected by the Architect. Do not begin masonry construction until locations of masonry control joints have been approved. Horizontal reinforcing in masonry walls shall be stopped at control joints except at bond beams at joist bearings. Provide additional reinforcing at each side of the control joint as shown.

11. GROUT. All cells containing reinforcing shall be grouted solid. Grout shall be placed using the low-lift grouting method: Before grouting clean cells and cavities to be grouted of all trash, mortar droppings and fins and standing water. Grout lifts and free fall of grout in concrete masonry construction shall not exceed 4 feet. Except at the tops of walls, shear keys shall be provided at the top course of all cells and or cavities containing vertical reinforcing by stopping the grout pour at mid height of the top course being grouted. All cells below grade shall be grouted in one lift with no construction joints permitted. Mortar shall not be used as grout.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

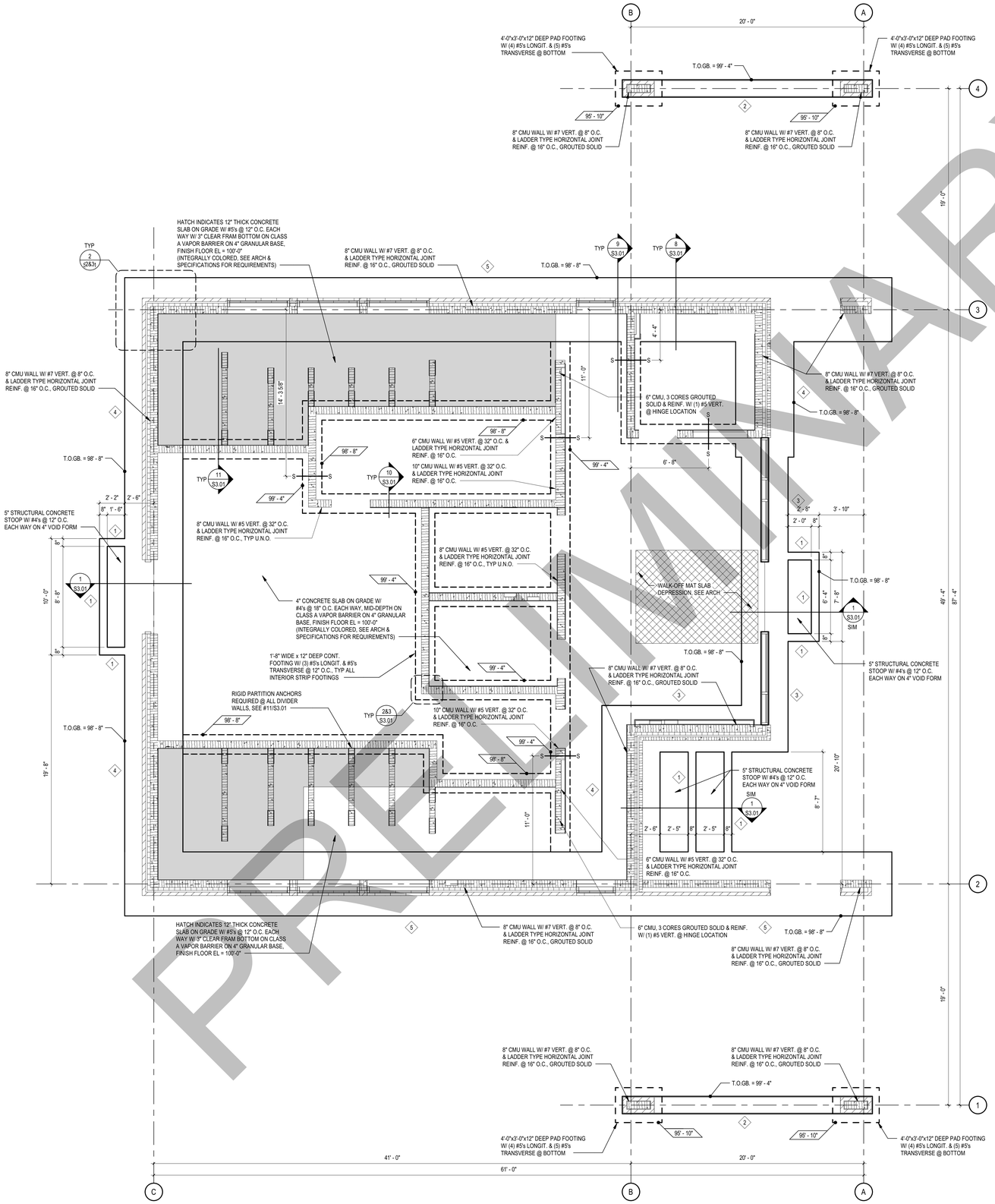
May 15, 2023

PROFESSIONAL CIVIL ENGINEER
SANDI L. DAVISON
E-9358
STATE OF NEBRASKA

Preliminary

Structural Notes

S0.00



FOOTING & FOUNDATION PLAN

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

GRADE BEAM SCHEDULE	
MARK	SIZE
1	8" WIDE x 3'-10" DEEP GRADE BEAM W/ (1) #5 TOP & BOTTOM & #4 VERT. @ 24" O.C.
2	1'-6" WIDE x 4'-6" DEEP GRADE BEAM W/ (3) #5's TOP & BOTTOM & #4 STIRRUPS @ 24" O.C.
3	4'-0" WIDE x 3'-10" DEEP GRADE BEAM W/ (4) #7's TOP & BOTTOM & #4 STIRRUPS @ 24" O.C.
4	5'-0" WIDE x 3'-10" DEEP GRADE BEAM W/ (5) #7's TOP & BOTTOM & #4 STIRRUPS @ 24" O.C.
5	5'-6" WIDE x 3'-10" DEEP GRADE BEAM W/ (6) #7's TOP & BOTTOM & #4 STIRRUPS @ 24" O.C.

GENERAL EARTH MOVING NOTES:

1. SEE GEOTECHNICAL ENGINEERING REPORT PREPARED BY MID-STATE ENGINEERING & TESTING, DATED 05/04/2023, AND SPECIFICATIONS FOR EARTHWORK AND FOUNDATION PREPARATION REQUIREMENTS. ALL RECOMMENDATIONS GIVEN SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENT SET.

2. FILL MATERIAL. FILL MATERIAL SHALL CONSIST OF LEAN CLAYS OR CLAYEY SANDS WITH A MINIMUM OF 30% CLAYS / SILTS AS NOTED IN THE GEOTECHNICAL ENGINEERING REPORT.

3. FILL SETTLEMENT. TIME SHALL BE ALLOWED FOR THE NEW FILL TO SETTLE AS NOTED IN THE GEOTECHNICAL ENGINEERING REPORT.

GENERAL FOUNDATION NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL DIMENSIONS WITH THE MECHANICAL UNIT SUPPLIER.

2. 100'-0" INDICATES TOP OF FOOTING ELEVATION.

3. INDICATES STEP IN THE FOUNDATION ELEVATION, TYP.

3. WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH PILASTER PAD FOOTINGS.

4. BEFORE STARTING GRADING AND EXCAVATION, ESTABLISH THE LOCATION AND EXTENT OF UNDERGROUND UTILITIES IN THE WORK AREA. EXERCISE CARE TO PROTECT EXISTING UTILITIES DURING EARTHWORK OPERATIONS. PERFORM EXCAVATION WORK NEAR UTILITIES BY HAND AND PROVIDE NECESSARY SHORING AND SUPPORTS AS THE WORK PROGRESSES. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EXISTING UNDERGROUND UTILITIES. SEE MECHANICAL AND CIVIL/LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATIONS OF EXISTING UTILITIES.

5. ON THE FOOTING AND FOUNDATION PLAN, REFER TO VERBIAGE FOR FOOTING SIZES. DO NOT SCALE.

6. SLOPE SLAB TO DRAINS WHERE INDICATED IN THE ARCHITECTURAL DRAWINGS.

7. A 4" THICK GRANULAR BASE LAYER UNDER CLASS A VAPOR BARRIER UNDER THE NEW 4" CONCRETE SLAB ON GRADE IS DETAILED THROUGHOUT THIS SET OF CONSTRUCTION DOCUMENTS. IF THE FLOORING MANUFACTURER (S) RECOMMEND A THICKER LAYER OF GRANULAR MATERIAL OR A MORE STRINGENT TYPE OF VAPOR BARRIER, THEN THEIR RECOMMENDATIONS SHALL BE FOLLOWED. CONSTRUCTION MANAGER OR GENERAL CONTRACTOR TO COORDINATE.

8. AT ALL RE-ENTRANT CORNERS IN THE SLAB, PLACE 2-#3 x 2'-6" LONG DOWELS @ 2" O.C. LOCATE BARS AT MID-DEPTH IN THE SLAB, TYPICAL.

9. SEE DETAIL #6/S3.01 FOR MECHANICAL EQUIPMENT BASE DETAIL. SEE SHEET ARCHITECTURAL & MECHANICAL SHEETS FOR EXACT LOCATIONS OF EQUIPMENT BASES.

10. SLAB CONTROL JOINTS. SEE SHEET A1.12 FOR LAYOUT PLAN.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

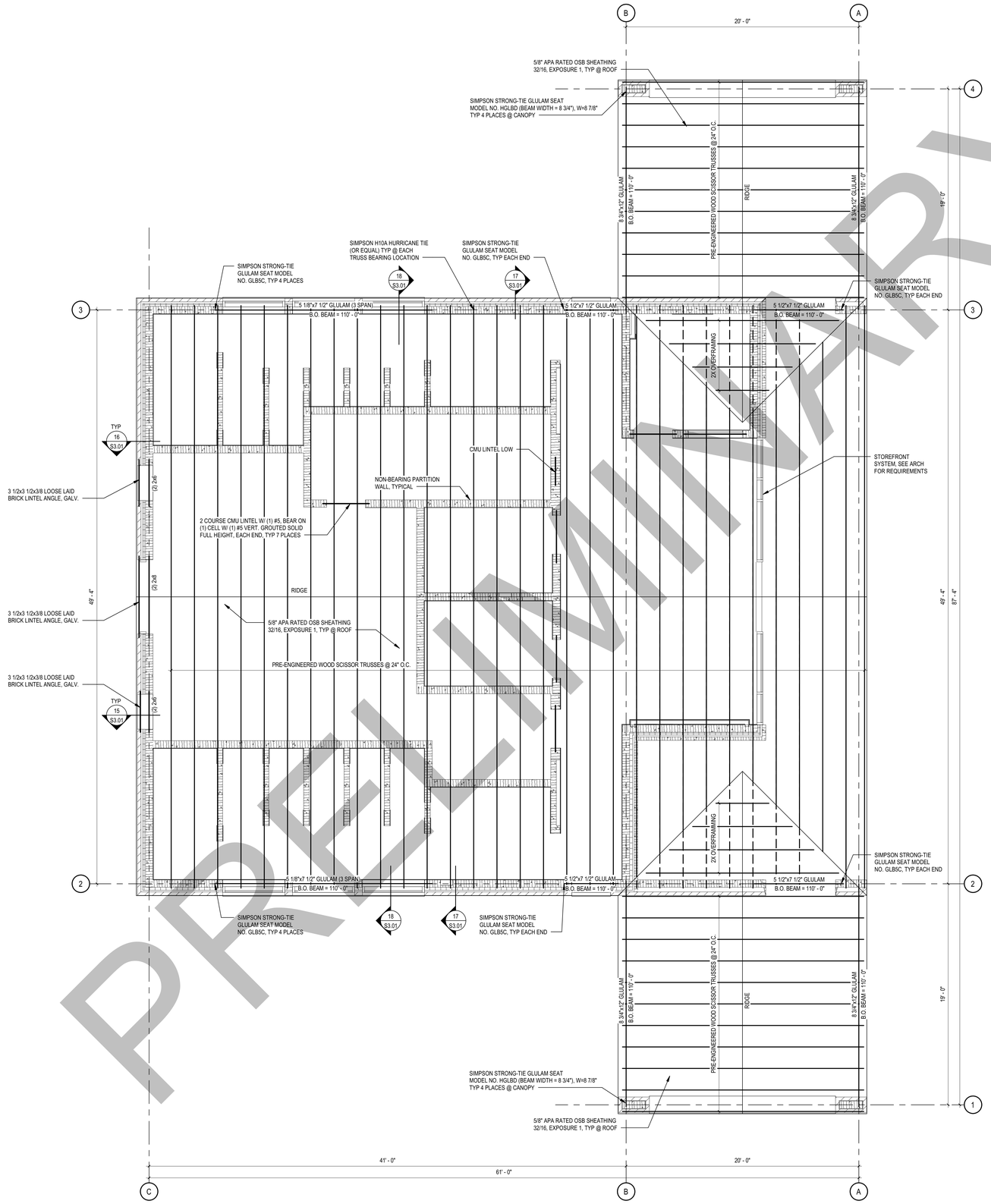
CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

Preliminary

Footing & Foundation Plan

S1.01



ROOF FRAMING PLAN

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

GENERAL FRAMING NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL DIMENSIONS WITH THE MECHANICAL UNIT SUPPLIER.

2. SEE SHEET G0.10 (CODE COMPLIANCE SHEET) FOR STEEL FIREPROOFING REQUIREMENTS, IF REQUIRED.

3. ALL OPENINGS THROUGH ROOF SHALL BE COORDINATED (EXACT LOCATION AND SIZES) WITH MECHANICAL.

4. SCISSOR TRUSSES. SEE ARCHITECTURAL FOR TOP AND BOTTOM CHORD SLOPE REQUIREMENTS AND TRUSS / BEAM BEARING ELEVATIONS.

5. THE ROOF TRUSS SUPPLIER IS RESPONSIBLE FOR DESIGNING / COORDINATING / SUPPLYING ALL MEMBERS OF THE ROOF FRAMING SYSTEM. THIS INCLUDES THE TRUSSES, RIDGE BEAMS, HIP JACKS, STICK FRAMING, BRIDGING, AND BRACING. ANY HORIZONTAL LOADS THAT WILL BE EXERTED UPON THE STEEL STUD WALL / HSS / DOUBLE TOP PLATE ASSEMBLY SHALL BE PROVIDED TO TCEP FOR COORDINATION. THESE LOADS SHALL BE CLEARLY MARKED ON THE SHOP DRAWINGS.

6. TRUSSES SHOWN ON THE FRAMING PLAN ARE INTENDED TO BE SCHEMATIC & SOMEWHAT REPRESENTATIONAL. THE EXACT LAYOUT OF THE TRUSSES AND SIZES OF MEMBER USED (INCLUDING TRUSS WEB MEMBERS) SHALL BE DETERMINEDBY THE TRUSS SUPPLIER. THE OVERALL EXTERIOR DIMENSIONS OF THE ROOF, SOFFIT ELEVATION, AND LENGTH OF OVERHANGS SHALL BE MAINTAINED. THE 2'-0" MAXIMUM SPACING INDICATED ON THE PLAN SHALL BE MAINTAINED.

7. REFER TO SPECIFICATION SECTION 06192 - "PREFABRICATED METAL-PLATE CONNECTED WOOD TRUSSES" FOR ADDITIONAL INFORMATION & REQUIREMENTS FOR THE WOOD TRUSSES, INCLUDING CERTIFICATION REQUIREMENTS.

8. ATTACH SHEATHING PANELS IN ACCORDANCE WITH ALL APA STANDARDS; THIS INCLUDES PROVIDING AN 1/8" SPACE (WITH PANEL CLIPS) AT ALL END AND EDGE JOINTS TO ALLOW FOR PANEL EXPANSION.

9. CONCRETE MASONRY. SEE ARCHITECTURAL FOR TOP OF WALL ELEVATION REQUIREMENTS.

ROOF DECK ATTACHMENT

1. NAIL SHEATHING TO SUPPORTING STRUCTURE USING 8d COMMON NAILS SPACED AT 4" ON CENTER ALONG EDGES OF SHEATHING PANELS AND AT 6" ON CENTER ALONG OTHER SUPPORTS, PROVIDE 2x4 BLOCKING AT ALL UNSUPPORTED PANEL EDGES, INCLUDING BOTH SIDES OF ROOF VENT OPENINGS.

SHEET HISTORY:

ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

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Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

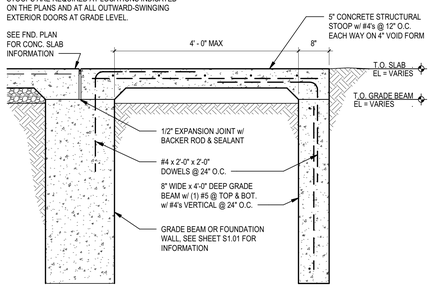
May 15, 2023

Preliminary

Roof Framing Plan

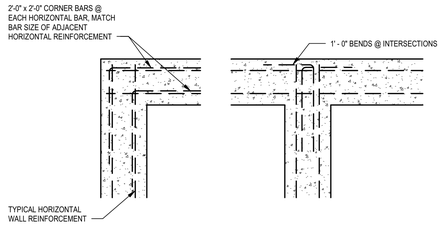
S2.01

NOTE:
STOOPS ARE REQUIRED AT LOCATIONS INDICATED ON THE PLANS AND AT ALL OUTWARD-SWINGING EXTERIOR DOORS AT GRADE LEVEL.

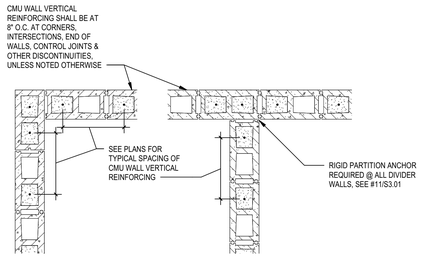


1 TYPICAL STOOP DETAIL
SCALE: 3/4" = 1'-0"

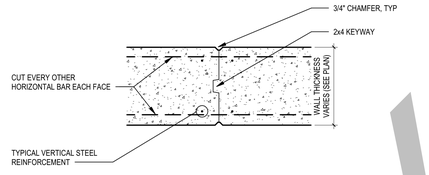
NOTE:
VERTICAL REINFORCEMENT NOT SHOWN FOR CLARITY



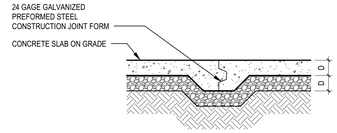
2 TYPICAL HORIZONTAL BAR BENDING
SCALE: 3/4" = 1'-0"



3 TYPICAL CMU WALL PLAN DETAIL
SCALE: 3/4" = 1'-0"



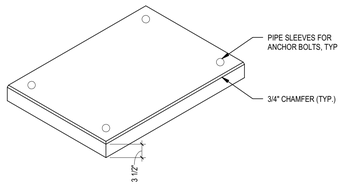
4 CONCRETE WALL CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



NOTES:
1. D = SLAB DEPTH, SEE PLANS.

2. AT CONTRACTOR'S OPTION CONTROL JOINTS MAY BE CREATED BY SAWCUTTING 1/8" WIDE x D/4 DEEP GROOVES INTO SLAB. CUTS MUST BE MADE WITHIN 12 HOURS OF COMPLETION OF SLAB FINISHING OPERATIONS. IF JOINTS ARE MADE BY SAWING, THICKENED PORTION OF SLAB SHALL BE ELIMINATED.

5 CONTROL JOINT DETAIL
SCALE: 3/4" = 1'-0"



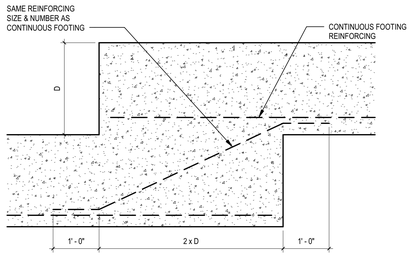
NOTES:
1. PROVIDE 30# FELT BETWEEN BASE & FLOOR. BASE SHALL BE DOWELED TO FLOOR.

2. ALL BASES SUPPORTING BOTH EQUIPMENT AND A CONCRETE INERTIA PAD TO BE REINFORCED AS FOLLOWS: - PROVIDE #4 REBAR @ 12" O.C. BOTH WAYS IN BASE.

3. ADJUST SIZE AS REQUIRED FOR INDIVIDUAL EQUIPMENT INSTALLED.

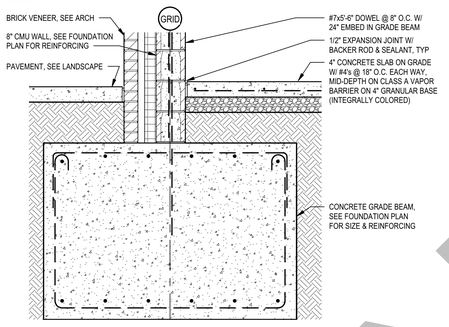
4. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.

6 MECHANICAL EQUIPMENT BASE
SCALE: NO SCALE

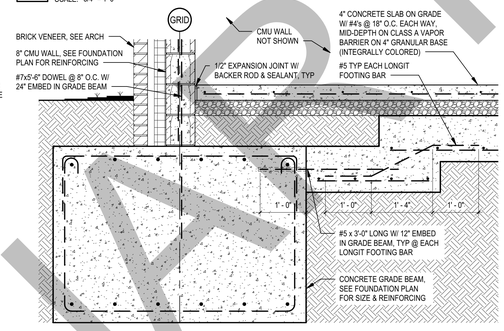


ELEVATION VIEW

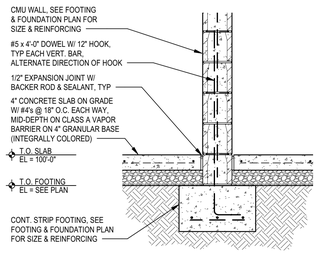
7 TYPICAL FOOTING STEP DETAIL
SCALE: 3/4" = 1'-0"



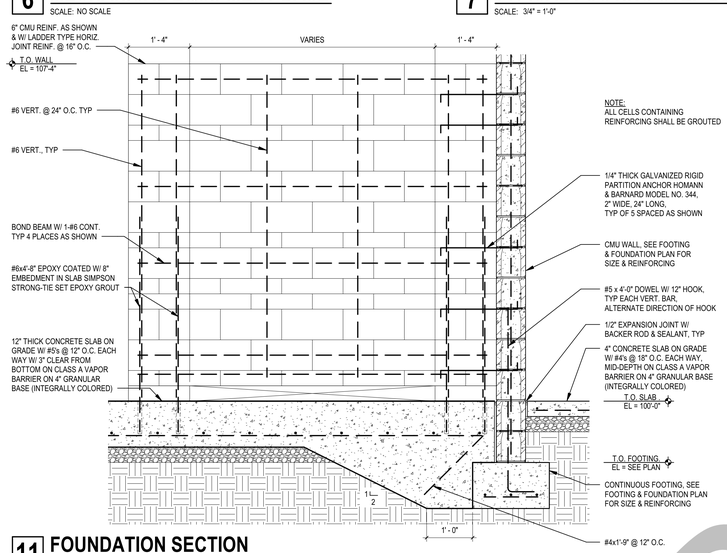
8 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



9 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



10 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



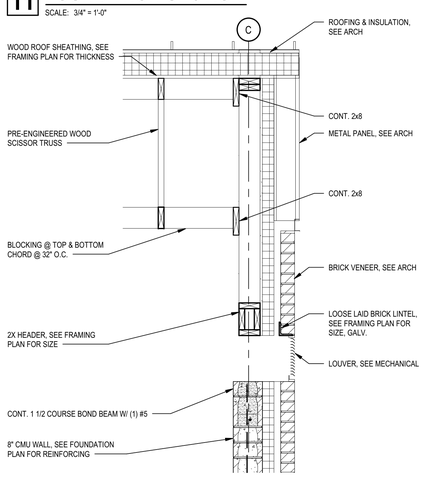
NOTE:
ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED

11 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"

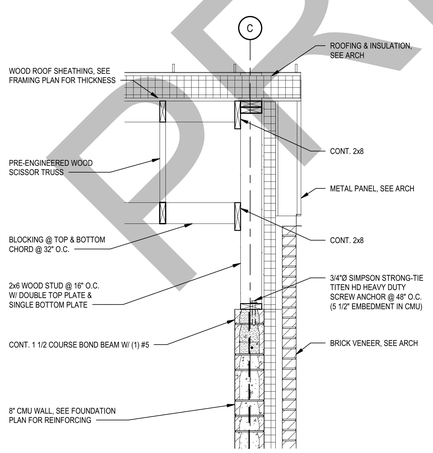
12 NOT USED
SCALE: NONE

13 NOT USED
SCALE: NONE

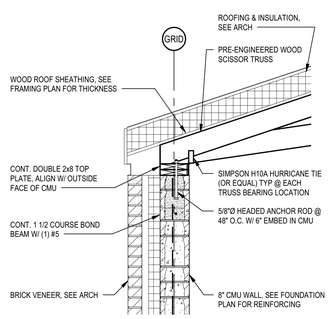
14 NOT USED
SCALE: NONE



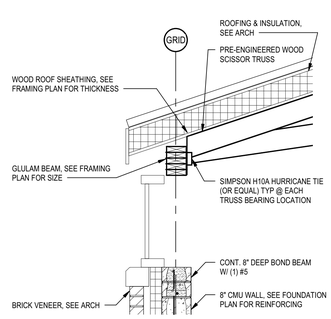
15 FRAMING SECTION
SCALE: 3/4" = 1'-0"



16 FRAMING SECTION
SCALE: 3/4" = 1'-0"



17 FRAMING SECTION
SCALE: 3/4" = 1'-0"



18 FRAMING SECTION
SCALE: 3/4" = 1'-0"

2	
1	
0	
7 - 8	

SHEET HISTORY:
ISSUED 05/15/2023 CONSTRUCTION DOCUMENTS

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schimer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

Sidney West-Bound Rest Area

Sidney, Nebraska

CE No.: 508-020-21
NDOT No.: NH-80-2(92)
Control No.: 51276A

May 15, 2023

PROFESSIONAL CIVIL ENGINEER
SANDI L. DAVISON
E-9358
5-15-23
STATE OF NEBRASKA

Preliminary

Structural Details

S3.01