U.S. DEPARTMENT OF VETERANS AFFAIRS

SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS

IMPROVE CAMPUS BUILDING EXTERIORS

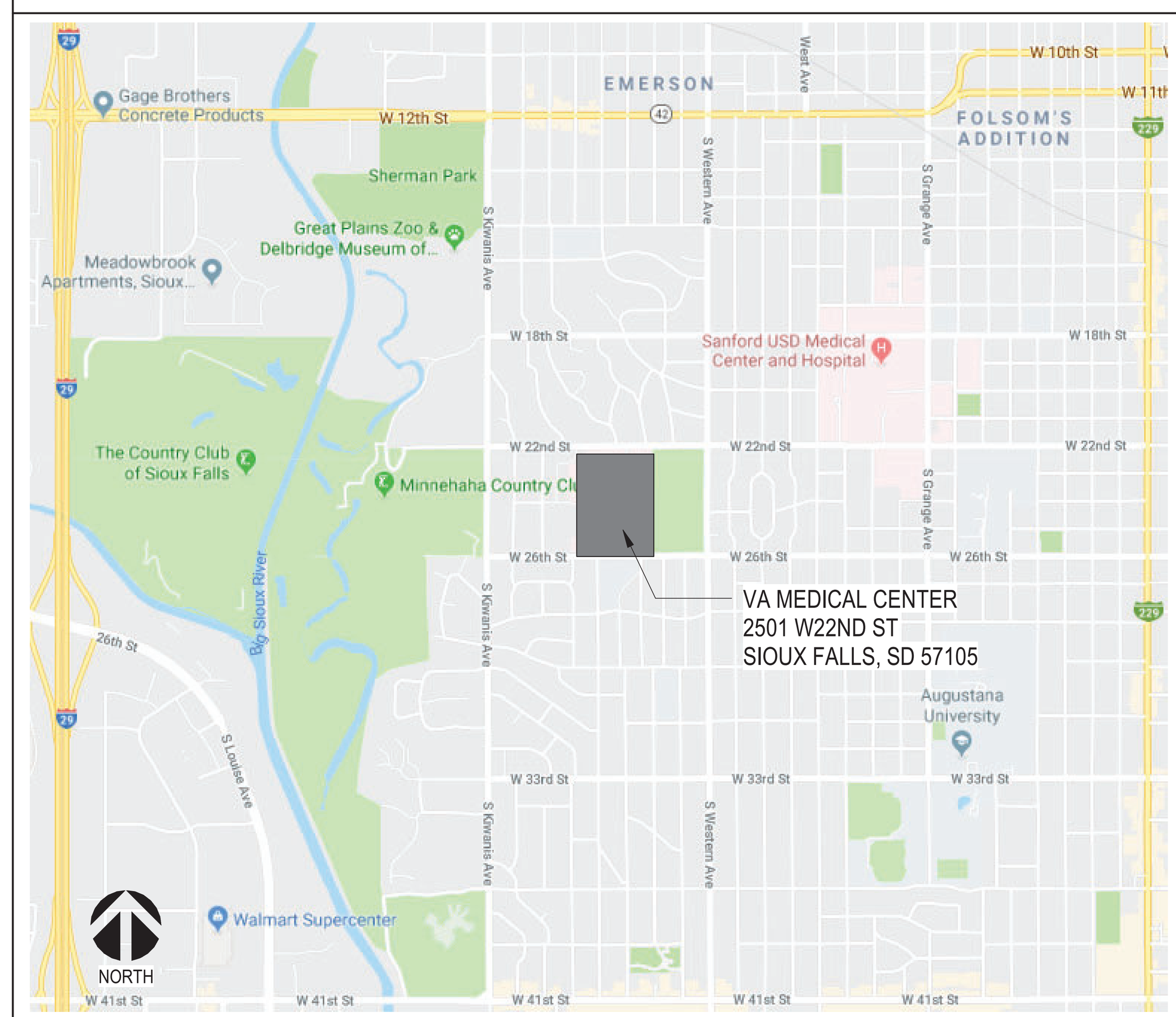
BUILDING# ~~1~~, 5, 7, ~~8~~, 9, ~~11~~, ~~16~~, ~~17~~, ~~38~~, 52

SIOUX FALLS, SOUTH DAKOTA

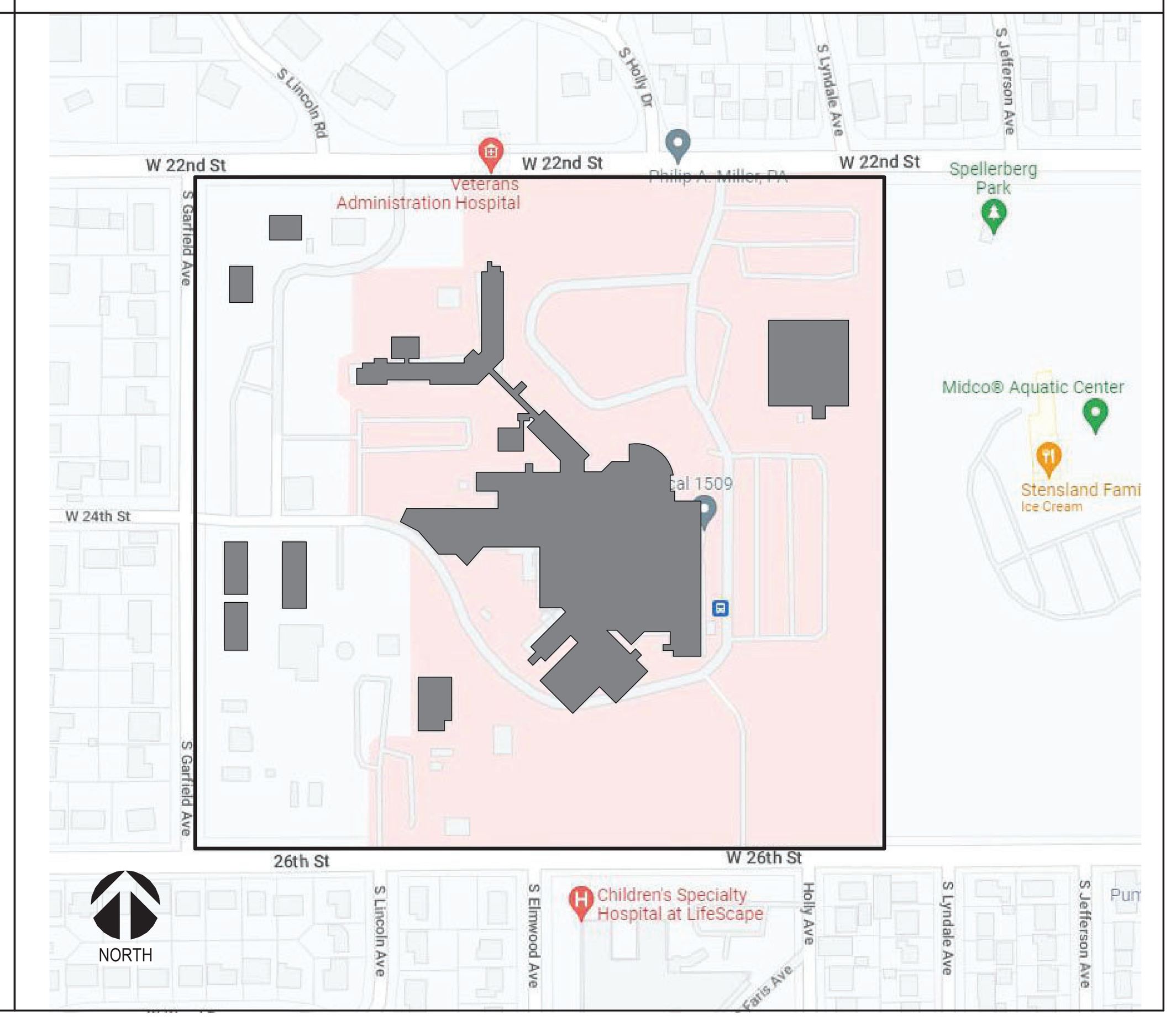
VA #438-22-600

SEPTEMBER 15, 2023 CONSTRUCTION DOCUMENTS

VICINITY MAP



SITE MAP



SHEET INDEX

ABBREVIATIONS

SYMBOLS	
#	POUND OR NUMBER
&	AND
<	ANGLE
<<	DOUBLE ANGLE
@	AT
d	PENNEY
Ø	ROUND OR DIAMETER
A	
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABV	ABOVE
AC	ASPHALTIC CONCRETE/AIR CONDITIONER
ACC	ACCESSIBLE
ACM	ALUMINUM COMPOSITE MATERIAL
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE, ADJACENT, ADJOINING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATIVE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS
B	
BD	BOARD
BEV	BEVELED
BFF	BELOW FINISH FLOOR
BL	BRICK LEDGE
BLDG	BUILDING
BLKG	BLOCK (ING)
BM	BEAM
BO	BOTTOM OF
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
C	
C	CHANNEL/CELSIUS
CAB	CABINET
CB	CERAMIC BASE
CCW	COUNTER CLOCKWISE
CD	CONSTRUCTION DOCUMENTS
CEM	CEMENT
CF	CUBIC FEET OR FOOT
CG	CORNER GUARD
CH	CHANNEL
CIPC	CAST-IN-PLACE CONCRETE
CJ	CONTROL/CONSTRUCTION JOINT
CL	CENTER LINE
CLKG	CAULKING
CLO	CLEAR, CLEARANCE
CMU	CONCRETE MASONRY UNIT
CO	CHANGE ORDER/CLEANOUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPOSITE/COMPOSITION
CONC	CONCRETE
CONN	CONNECT (ION)
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACT (OR)
COORD	COORDINATE
CORR	CORRUGATED/CORRIDOR
CPPT	CARPET TILE
CPT	CARPET
CSMT	CASEMENT
CT	CERAMIC TILE
CTB	CARPET TILE BASE
CTR	CENTER
D	
D	DEPTH
DBL	DOUBLE
DEMO	DEMOLITION, DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING (S)
DWR	DRAWER
DWTR	DUMBWAITER
E	
(E)	EXISTING
E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELVE	ELEVATOR
EMER	EMERGENCY
ENGR	ENGINEER
ENL	ENLARGED
EOP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE TERPOLYMER MEMBRANE
EPS	EXPANDED POLYSTYRENE BOARD
EPT	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EST	ESTIMATE
ETC	ETCETERA
ETR	EXISTING TO REMAIN
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE/EXCAVATION
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION/EXPOSED
EXT	EXTERIOR
F	
FA	FIRE ALARM
FAB	FABRICATE/FABRICATION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH (ED)
FLR	FLOOR (ING)
FLUOR	FLUORESCENT
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FR	FIRE RESISTANT/FRAME
FRP	FIBERGLASS REINFORCED PANEL
FS	FLOOR SINK
FT	FOOR, FEET/FIRE TREATED
FTG	FOOTING
FURN	FURNISH
FUT	FUTURE
G	
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GL	GLASS
GLU LAM	GLUE LAMINATED (BEAM)
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
HB	HOSE BIB
HC	HANDICAP / HOLLOW CORE
HD	HEAVY DUTY
HDBD	HARDBOARD
HDR	HEADER
HM	HOLLOW METAL
HORZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIRCONDITIONING
I	
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER/DIMENSION
IFC	INTERNATIONAL FIRE CODE
IN	INCH (ES)
INCL	INCLUDE (D), INCLUDING
INFO	INFORMATION
INSP	INSPECTION
INSTR	INSTRUCTION (S)
INSUL	INSULATE (D), INSULATION
INT	INTERIOR
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KCJ	KEYED CONSTRUCTION JOINT
KO	KNOCK OUT
L	
L	LENGHT / ANGLE
LAB	LABORATORY
LAM	LAMINATE (D)
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET
LH	LEFT HAND
LKR	LOCKER
LOC	LOCATION
LONG	LONGITUDINAL
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURE (R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MNTG	MOUNTING
MO	MASONRY OPENING
MR	MIRROR
MTL	METAL
N	
(N)	NEW
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
OH	OVERHEAD
OPG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OZ	OUNCE
P	
PAR	PARALLEL
PCF	POUNDS PER CUBIC FOOT
PED	PEDISTAL
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLMG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR / PROPOSAL REQUEST
PRCST	PRECAST
PREFAB	PREFABRICATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT / PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTICAL
PVC	POLYVINYL CHOLORIDE
Q	
QT	QUARRY TILE
R	
R	RADIUS / RISER
RB	RUBBER BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REC	RECESSED
REF	REFERENCE / REFRIGERATOR
REINF	REINFORC (D), (ING), (MENT)
REQ	REQUIRE
REQD	REQUIRED
RES	RESILIENT FLOORING
RET	RETURN
REV	REVISION (S), REVISED
RFG	ROOFING
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RL	RIDGE LINE
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RVS	REVERSE (SIDE)
RWL	RAIN WATER LEADER
S	
S	SOUTH
SB	SPLASH BACK
SC	SOLID CORE
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCT	SECTION
SD	SOAP DISPENSER
SF	SQUARE FOOT
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SLDG	SLIDING
SLNT	SEALANT
SND	SANITARY NAPKIN DISPENSER
SNX	SANIARY NAPKIN DISPOSAL
SOG	SLAB ON GRADE
SPEC	SPECIFICATION (S)
SQ	SQUARE
SSM	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
ST	STREET
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SW	SHEARWALL
SYM	SYMMETRICAL
T	
T	TREAD
T&B	TOP & BOTTOM
T&G	TOUNGE AND GROOVE
TB	TOWEL BAR
TBD	TO BE DETERMINED
TEMP	TEMPORARY / TEMPERED
TER	TERRAZZO
TFE	TOP FOOTING ELEVATION
THD	THREAD (ED) (S)
THK	THICKNESS
THRU	THROUGH
TKBD	TACKBOARD
TL	TILE
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP O F CONCRETE/CURB
TOD	TOP OF DECK
TOF	TOP OF FOOTING (FOUNDATION)
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PIER
TOS	TOP OF SLAB/STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPO	THERMOPLASTIC POLYOLEFIN
TPTN	TOILET PARTITION
TRANS	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
U	
UG	UNDERGROUND
UH	UNIT HEATER
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	
V	SHEAR
VAR	VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VWC	VINYL WALL COVERING
W	
W	WEST/WIDTH
W/	WITH
W//O	WITHOUT
WA	WEDGE ACHOR
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD/WOODWORK
WDW	WINDOW
WF (W)	WIDE FLANGE
WG	WALL GUARD
WH	WATER HEATER
WI	WROUGHT IRON
WL	WIND LOAD
WP	WATERPROOF (ING)
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT / WINDOW TREATMENT
WWF	WELDED WIRE FABRIC

SYMBOLS LEGEND

- BATT INSULATION
- GYPSUM BOARD
- EARTH
- CONCRETE
- RIGID INSULATION
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW CONSTRUCTION
- WOOD ROUGH (CONTINUOUS)
- WOOD ROUGH (SPACED)
- PLYWOOD
- BLOCK WALL/VENEER
- DIMENSION LINE
- BREAK LINE
- ROOM XXX — ROOM NAME AND NUMBER
- XX — KEYNOTE
- XXX — DOOR OPENING/BORROWED LIGHT IDENTIFIER
- XX — INTERIOR PARTITION TYPES
- XX — FURNITURE, FIXTURE OR EQUIPMENT, AND FINISHES INDICATOR
- FEC — FIRE EXTINGUISHER CABINET
- CG — CORNER GUARD
- XX — ROOF TYPES
- X / X-XX — DETAIL INDICATOR
- X / X-XX — DETAIL INDICATOR
- X / X-XX — BUILDING SECTION INDICATOR
- X / X-XX — WALL SECTION INDICATOR
- X / X-XX — DETAIL INDICATOR
- X / X-XX — ELEVATION INDICATOR, EXTERIOR
- X-XX / X-XX — ELEVATION INDICATOR, INTERIOR,
- ELEVATION INDICATOR
- CENTER LINE
- NORTH — NORTH ARROW
- XX DRAWING TITLE XX=XX — DRAWING BLOCK TITLE, TYPICAL
- 1 / A — GRID LINES

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

REGISTERED ARCHITECT REG. NO. 9771 SOUTH DAKOTA 9-15-23

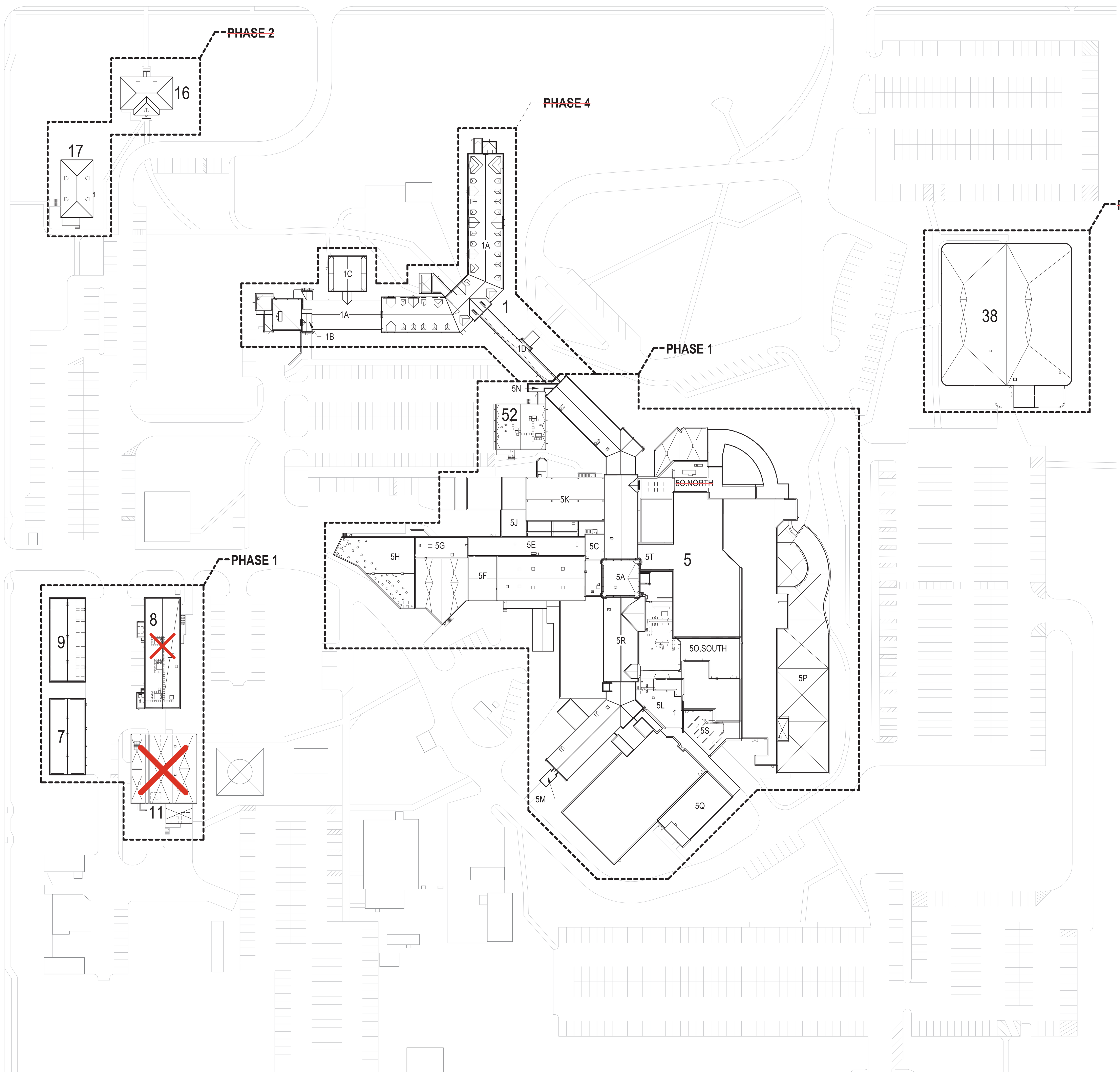
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
COVER SHEET	CONSTRUCTION DOCUMENTS	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	VA #438-22-600 SGA #221926
Approved:		Location: SIOUX FALLS, SOUTH DAKOTA	Building Number
		Issue Date: 09-15-2023 / Checked: BH / Drawn: MA	Drawing Number: G-000

VA FORM 08 - 6231

C:_SGA Revit Local\221926_VASF_ICBE_OVERALL_MichaelAlb.rvt 9/14/2023 8:19:49 AM



F1 **SITE PLAN**
1" = 60'-0"
NORTH

BUILDING SCHEDULE

1	HR / MH BUILDING
5	MAIN HOSPITAL
7	UTILITY SHOPS
8	LAUNDRY
9	STATION GARAGE
11	BOILER PLANT
16	HBPC / LEGAL BUILDING
17	ENGINEERING BUILDING
38	REGIONAL OFFICE BUILDING
52	INTEGRATED HEALTH BUILDING

PHASING SCHEDULE

PHASE 1	BLDG 5,7,9,52
~~PHASE 2~~	~~BLDG 16,17,38~~
~~PHASE 3~~	~~BLDG 5, 52~~
~~PHASE 4~~	~~BLDG 1~~

ROOF TYPES

L(x) = LOW SLOPE ROOF
M(x) = METAL ROOF
S(x) = SLATE ROOF

Building	Type	Assembly
BLDG 5A	L1	• ADHERED 60 MIL ROOFING MEMBRANE • ADHERED 5/8" HEAVY DUTY COATED WATER RESISTANT GYPSUM BOARD WITH PRIMED GLASS MAT FACER -R-0.7 • ADHERED LAYER OF TAPERED RIGID ISO ROOF INSULATION (SLOPE 1/4 : 12) • (REF. PLAN FOR OVERALL INSULATION & COVER BOARD THICKNESS) • EXISTING CONCRETE DECK
BLDG ~~1D~~, 5D, 5F ,7, ~~8~~, 9	L2	• ADHERED 60 MIL ROOFING MEMBRANE • ADHERED 5/8" HEAVY DUTY COATED WATER RESISTANT GYPSUM BOARD WITH PRIMED GLASS MAT FACER -R-0.7 • ADHERED 2 1/2" TOP LAYER RIGID ISO ROOF INSULATION -R-14.4 • ADHERED 2 1/2" BASE LAYER RIGID ISO ROOF INSULATION -R-14.4 • SELF ADHERING REINFORCED SBS VAPOR RETARDER • EXISTING CONCRETE DECK (SLOPED)
BLDG ~~1A~~, ~~1B~~, 5B, 5C,5E, 5G,5J, 5K, 5M, ~~5O(NORTH)~~, 5O(SOUTH),5S, 8	L3	• ADHERED 60 MIL ROOFING MEMBRANE • ADHERED 5/8" HEAVY DUTY COATED WATER RESISTANT GYPSUM BOARD WITH PRIMED GLASS MAT FACER -R-0.7 • ADHERED TOP LAYER OF TAPERED RIGID ISO ROOF INSULATION -R-5.7/INCH • ADHERED 2" BASE LAYER RIGID ISO ROOF INSULATION -R-11.4 • (REF. PLAN FOR OVERALL INSULATION & COVERBOARD THICKNESS) • SELF ADHERING REINFORCED SBS VAPOR RETARDER • EXISTING CONCRETE DECK
~~BLDG 38~~	L4	• ~~ADHERED 60 MIL REINFORCED ROOFING MEMBRANE~~ • ~~5/8" HEAVY DUTY COATED WATER RESISTANT GYPSUM BOARD WITH PRIMED GLASS MAT FACER -R-0.7~~ • ~~TAPERED RIGID ISO ROOF INSULATION (SLOPE AS NOTED ON PLAN) -R-5.7/INCH~~ • ~~1 1/2" BASE LAYER RIGID ISO ROOF INSULATION -R-8.6~~ • ~~(REF. PLAN FOR OVERALL INSULATION & COVERBOARD THICKNESS)~~ • ~~(MECHANICALLY FASTENED INSULATION AND COVERBOARD)~~ • ~~POLY VAPOR RETARDER~~ • ~~EXISTING METAL DECK~~ • ~~EXISTING STEEL BAR JOISTS (SLOPED)~~
BLDG 5G (ENTRY), 5H, 5L, 5N, 5P, ~~38~~	L5	• ADHERED 60 MIL REINFORCED ROOFING MEMBRANE • 5/8" HEAVY DUTY COATED WATER RESISTANT GYPSUM BOARD WITH PRIMED GLASS MAT FACER -R-0.7 • TAPERED RIGID ISO ROOF INSULATION (SLOPE 1/4 : 12) -R-5.7/INCH • 2" BASE LAYER RIGID ISO ROOF INSULATION -R-11.4 • (REF. PLAN FOR OVERALL INSULATION & COVER BOARD THICKNESS) • (MECHANICALLY FASTENED INSULATION AND COVERBOARD) • POLY VAPOR RETARDER • EXISTING METAL DECK
BLDG 52	L6	• ADHERED 60 MIL REINFORCED ROOFING MEMBRANE • EXISTING WOOD DECK
~~BLDG 1C~~	L7	• ~~ADHERED 60 MIL REINFORCED ROOFING MEMBRANE~~ • ~~5/8" HEAVY DUTY COATED WATER RESISTANT GYPSUM BOARD WITH PRIMED GLASS MAT FACER -R-0.7~~ • ~~TAPERED RIGID ISO ROOF INSULATION (SLOPE 1/4 : 12) -R-5.7/INCH~~ • ~~2" BASE LAYER RIGID ISO ROOF INSULATION -R-11.4~~ • ~~(REF. PLAN FOR OVERALL INSULATION & COVER BOARD THICKNESS)~~ • ~~(MECHANICALLY FASTENED INSULATION AND COVERBOARD)~~ • ~~POLY VAPOR RETARDER~~ • ~~EXISTING WOOD DECK~~
~~BLDG 1A, 1C, 16, 17~~	S1	• ~~COMPOSITE SLATE TILES~~ • ~~COPPER SNOW GUARDS~~ • ~~SELF ADHERED ICE & WATER SHIELD UNDERLAYMENT~~ • ~~EXISTING WOOD DECK~~ • ~~EXISTING WOOD FRAMING~~
~~BLDG 1A, 1B~~	S2	• ~~COMPOSITE SLATE TILES~~ • ~~COPPER SNOW GUARDS~~ • ~~SELF ADHERED ICE & WATER SHIELD UNDERLAYMENT~~ • ~~3" NAILBASE INSULATION - ROUTE OUT 3/4" X 1/4" GROOVE IN INSULATION AT EACH EXISTING TEE - REF STRUCT~~ • ~~1 1/2" METAL DECK~~
~~BLDG 16, 17~~	M1	• ~~LOCK SEAM COPPER ROOF (20 OZ, 16" WIDE)~~ • ~~SELF ADHERED ICE & WATER SHIELD UNDERLAYMENT~~ • ~~EXISTING 1" WOOD SHEATHING~~ • ~~EXISTING WOOD DORMER FRAMING~~
~~BLDG 17~~	M2	• ~~STANDING SEAM METAL ROOF (16" WIDE)~~ • ~~SELF ADHERED ICE & WATER SHIELD UNDERLAYMENT~~ • ~~1/2" PLYWOOD SHEATHING~~ • ~~EXISTING 1" WOOD SHEATHING~~
BLDG 5R	M3	• REINSTALL SALVAGED SLATE METAL ROOFING PANELS (EDCO, ARROWLINE SLATE #1748, 28 GA. STEEL - 952-945-2680 sales@edcoproducts.com) • REINSTALL SALVAGED SNOW GUARDS TO MATCH ORIGINAL LAYOUT • SELF ADHERED ICE & WATER SHIELD UNDERLAYMENT • 4" NAILBASE INSULATION • EXISTING WOOD SHEATHING
~~BLDG 11~~	M4	• ~~STANDING SEAM METAL ROOF (16" WIDE)~~ • ~~SELF ADHERED ICE & WATER SHIELD UNDERLAYMENT~~ • ~~4" NAILBASE INSULATION~~ • ~~POLY VAPOR RETARDER~~ • ~~EXISTING METAL DECK~~

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT
REG. NO. 9771
TODD RANDALL STONE
SOUTH DAKOTA
9-15-23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL PHASING AND SITE PLAN
Approved:
Phase: CONSTRUCTION DOCUMENTS
Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location: SIOUX FALLS, SOUTH DAKOTA
Issue Date: 09-15-2023
Checked: BH
Drawn: MA
Project Number: VA #438-22-600 SGA #221926
Building Number:
Drawing Number: G-001

VA FORM 08 - 6231

C:_SGA Revit Local\221926_VASF_ICBE_OVERALL_MichaelAlb.rvt
9/14/2023 8:19:50 AM

GENERAL STRUCTURAL NOTES

These notes supplement the Specifications. Refer to the Specifications for additional requirements.

1. DESIGN CRITERIA:

1.1. BUILDING CODES USED FOR DESIGN:

1.1.1. IBC 2018.

1.2. STRUCTURAL TESTS AND SPECIAL INSPECTIONS:

1.2.1. Special inspections shall be performed by an independent testing agency according to IBC Chapter 17.

Section 1705.2 and Table 1705.2.3 - Steel Construction
Table 1705.3 - Concrete Construction
Table 1705.3 - Post-installed Anchors

1.2.2. Qualifications of special inspectors and frequency of tests and inspections shall be as defined in CASE 962C - Guideline for International Building Code-Mandated Special Inspections and Tests and Quality Assurance.

1.2.3. The Engineer will provide periodic observation to assure conformance with design intent of the construction documents. These observations are not meant to fulfill the requirements of special inspections.

1.2.4. Special inspections of the following items are not within the scope of the structural drawings. Contact the Architect or design professionals with these responsibilities for information about these items.

Sprayed Fire-resistant Materials
Mastic and Intumescent Fire-resistant Coatings
EIFS
Smoke Control

1.4. DESIGN LOADS:

1.4.1. Risk Category:

From IBC Table 1604.5

Risk Category IV

1.4.2. DESIGN LIVE LOADS:

Public Areas . . . . . 100 PSF
Corridors and Stairs . . . . . 100 PSF

1.4.3. WIND LOAD:

Ultimate Design Wind Speed: . . . 125 MPH
Exposure Classification: . . . . . B
Internal Pressure Coeff: . . . . . +0.18
. . . . . -0.18

Wind pressures used for the design of exterior components and cladding shall be calculated by a professional engineer registered in the state where the project is located. Calculations shall be submitted for review.

1.4.4. SNOW LOAD:

Ground Snow Load: . . . . . 40 PSF
Flat Roof Snow Load: . . . . . 34 PSF
Snow Exposure Factor: 1.0
Snow Load Importance Factor: . . . 1.2
Roof Thermal Factor: 1.0
Roof Slope Factor: 1.0

1.4.5 DESIGN STEEL DECKING AND ACCESSORIES.

Wind Uplift Resistance and Corner Conditions:
Corner uplift pressure.....68 PSF Minimum
Perimeter uplift pressure.....42 PSF Minimum
Field of roof uplift pressure.....38 psf Minimum

1.5. DEFLECTION AND DRIFT

1.5.1. Horizontal framing members are designed for deflections as tabulated. Deflections of horizontal to horizontal framing members are additive. Subcontractors shall make allowance for installation and operation of their systems to accommodate these deflections.

TYPICAL FRAMING MEMBERS
Roof Live Load span/360
Construction Load span/180

2. DESIGN STRENGTHS:

2.1. CONCRETE:

2.1.1. All concrete shall be stone aggregate unless noted. See Specifications for additional durability requirements.

2.1.2. Minimum concrete 28-day compressive strength shall be as follows:

f'c (PSI)	Type	Add'l Remarks	Location
4000	NWT, Air	Note 1	All Concrete

Note 1: Limit Water to Cement Ratio to 0.45

2.2. CONCRETE REINFORCEMENT:

Deformed Bars:	FY =	60 KSI	ASTM A615
Weldable Deformed Bars:	FY =	60 KSI	ASTM A706
Welded Wire Fabric:	FY =	70 KSI	ASTM A185
Micro/Macro Synthetic Fibers:			ASTMC1116

2.3. STRUCTURAL STEEL:

Wide Flange Sections:	FY =	50 KSI	ASTM A992
Rect. Hollow Structural Shapes:	FY =	50 KSI	ASTM A500 C
Round Hollow Structural Shapes:	FY =	46 KSI	ASTM A500 C
Solid Column Sections:	FY =	36 KSI	ASTM A36
Other Shapes or Plates	FY =	36 KSI	ASTM A36
Bolts:			ASTM A325/A490
Headed Studs:	Fu =	65 KSI	ASTM A108
Anchor Rods:	FY =	36 KSI	ASTM F1554
Welding Electrodes:	FY =	70 KSI	ASTM E70XX
Non-Shrink Grout:	f'c =	8,000 PSI	ASTM C1107

2.4. STEEL DECK:

Roof Deck:	FY =	33 KSI	ASTM A653
Composite Deck:	FY =	50 KSI	ASTM A653

2.5. COLD-FORMED STEEL: See ASTM A1003.

54 mil (16 Gage) and Heavier:	FY =	50 KSI
43 mil (18 Gage) and Lighter:	FY =	33 KSI

2.6. STRUCTURE EXPOSED TO WEATHER:

2.6.1. All structural steel and embed plates exposed to weather or located in parking areas shall be hot-dip galvanized unless noted otherwise.

2.6.2. Field welds shall be touched up with 2 coats of zinc rich paint.

4. CONCRETE:

4.1. REFERENCES:

ACI 315	ACI Detailing Manual
ACI 318	Building Code Requirements for Reinforced Concrete
CRSI MSP	Manual of Standard Practice
AWS D1.4	Structural Welding Code - Reinforcing Steel
CRSI	Recommended Practice for Placing Reinforcing Bars
PCI	Design Handbook: Precast and Prestressed Concrete

4.2. REINFORCING STEEL:

4.2.1. The reinforcing steel Contractor shall fabricate all reinforcement and furnish all accessories, chairs, spacer bars and supports necessary to secure the reinforcement unless shown otherwise on the plans and/or details.

4.2.2. Concrete reinforcement shall be placed according to ACI and CRSI "Recommended Practice for Placing Reinforcing Bars".

4.2.3. Minimum Clear Cover For Concrete Reinforcement:

Concrete Over Metal Deck . . . . . Centered in Slab

4.2.4. See typical detail for required bar development lengths and lap splice lengths.

4.2.5. All welded wire fabric shall have one full space plus 2" at splices and wire together.

4.2.7. No welding of reinforcement shall be permitted unless specifically called for or reviewed by the Structural Engineer. Where welding is permitted, all welding of reinforcing bars shall conform to: "Structural Welding Code - Reinforcing Steel". A chemical analysis of the reinforcing bars to be welded shall be submitted for review.

4.3. ANCHORING TO CONCRETE

4.3.1. Headed studs shall be Nelson H4L or S3L with Fu = 65 ksi, or approved equal, unless noted otherwise.

4.3.2. Deformed bar anchors shall be Nelson D2L with FY = 70 ksi or approved equal, unless noted otherwise.

4.3.3. Post-installed anchors shall be installed by qualified personnel in accordance with the Manufacturer's Printed Installation Instructions.

4.3.4. Expansion anchors shall not be loaded until concrete has achieved a minimum age of 7 days. Adhesive anchors shall not be loaded until concrete achieved a minimum age of 21 days.

4.3.5. Expansion anchors shall be Hilti Kwik Bolt TZ or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Diameter	Embedment	Diameter	Embedment
3/8"	2"	5/8"	4"
1/2"	3 1/4"	3/4"	4 3/4"

4.3.6. Adhesive anchors shall be Hilti HIT-RE 500 V3 or HIT-HY 200 with HAS Standard rods or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Diameter	Embedment	Diameter	Embedment
3/8"	3 3/8"	5/8"	5 5/8"
1/2"	4 1/2"	3/4"	6 3/4"

4.3.7. Epoxy for dowels drilled into concrete shall be Hilti HIT-RE 500 V3, HIT-HY 200, or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Bar	Embedment	Bar	Embedment
# 3	3 1/4"	# 5	5 3/4"
# 4	4 3/8"	# 6	6"

4.3.8. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

4.3.9. Contractor shall verify the location of reinforcing bars and/or prestressing tendons via GPR, X-Ray, or other means before drilling anchor holes. Reinforcing steel shall not be damaged.

5. STEEL:

5.1. REFERENCES:

Steel Construction Manual, 14th Edition

5.2. STRUCTURAL STEEL:

5.2.1. All beams shall be marked and erected with natural camber upwards.

5.2.2. Do not prime structural steel members that will receive spray-applied fireproofing. Do not prime surfaces of structural steel members that will be in contact with poured concrete or will receive welded studs.

5.2.3. The top and bottom of all steel columns that are in bearing shall be finished to a common plane.

5.2.4. All headed studs are to be welded to the steel section using an electric arc welding gun.

5.3. CONNECTIONS:

5.3.1. Connections shall be as shown on the drawings. Where connections are not explicitly detailed, fabricator shall design the connections in accordance with AISC 360 using LRFD methods.

5.3.2. The fabricator shall submit engineering calculations for all connections not explicitly detailed in the drawings to the Engineer for review. These submittals shall be signed and stamped by a professional engineer registered in the state where the project is located.

5.3.3. Connections shall be designed for the minimum design shear shown in the Beam Connection Schedule unless end reactions, shown on drawings, exceed minimum design shear. Where end reactions are not shown on plan, use minimum design shears listed in the schedule.

5.3.4. All beam reactions, axial forces, and moments act concurrently unless noted otherwise. Beam reactions act in gravity direction while axial and moment forces are to be considered reversible.

5.3.5. All bolts shall be either A325 or A490 high strength bolts. Use no more than two bolt diameters, one grade per diameter, skip one size between diameters.

5.3.6. All high strength bolts shall be installed in snug-tightened joints unless noted otherwise on the drawings. Fabricator may substitute ASTM F1852 N for A325 N bolts. Where slip critical joints are shown on the drawings, Class A faying surfaces shall be used. Slip shall be checked at the factored-load level.

5.3.7. Weld metal used shall be 70 KSI.

5.3.8. All welding shall be performed by AWS qualified operators.

5.3.9. All welded joints shall be prequalified or qualified by testing.

5.3.10. When welded connections are shown in the drawings, it is not the intent to specify the specific process or preparation.

5.3.11. Do not prime surfaces of structural steel members in areas that will be welded.

5.5. STEEL DECK:

5.5.1. REFERENCE: Steel Deck Institute; "Design Manual for Composite Decks, Form Decks and Roof Decks," latest edition.

5.5.2. Roof and floor deck is designed to act as a diaphragm to brace other building components. No portion shall be removed unless separate bracing is designed and provided.

5.5.3. Any openings or holes larger than 12" not shown on the plans will not be permitted unless reviewed by the Architect/Engineer.

5.5.4. The deck supplier shall provide deck accessories such as pour stops, cell closure plates, deck supports at columns and other miscellaneous deck items as required, even if not specifically shown on the Contract Documents.

5.5.5. Roof deck end joints shall have 6" minimum end laps.

5.5.6. The Contractor shall be cognizant of allowable construction live loads and plan concrete placing operations accordingly so as to not overstress or damage the composite or form deck. Contractor shall verify with deck manufacturer that the proposed concrete placing operation is compatible with the type, gauge, span, and length of the composite or form deck as furnished.

5.5.7. Deck supplier shall verify that shoring is not required to support the wet weight of concrete for the deck type, gauge, span, and layout provided.

5.5.8. Concrete shall be placed on deck in accordance with ACI 302. Slabs shall be screeded to maintain the minimum thickness shown on the drawings and proper top of slab elevation. Contractor shall include allowance for additional concrete quantities due to the deflected shape of non-cambered horizontal framing members.

5.5.9. Electrical conduit shall not be placed in composite slabs.

5.5.10. Composite deck shall be galvanized or phosphatized and painted.

6. MISCELLANEOUS:

6.1. DEFERRED STRUCTURAL SUBMITTALS

6.1.1. The design and documentation of some components defined using performance-based specifications may be deferred until after a building permit is obtained.

6.1.2. Deferred submittals include, but are not limited to, the items listed below.

6.1.3. For the following deferred submittals, the Contractor shall submit shop drawings and calculations signed and stamped by a professional engineer registered in the state where components are installed. These shall be submitted for review prior to fabrication.

Stairs
Guardrails and Handrails
Structural Steel Connections
Supports for Medical Equipment

6.3. ANCHOR RODS:

6.3.1. All anchor rods for mechanical and electrical equipment shall be furnished and located by the respective Subcontractors and set by the General Contractor except where the other Subcontractors furnish their own concrete pads.

6.4. NON LOAD BEARING PARTITION WALLS:

6.4.1. Non load bearing partition walls are generally not shown on the structural drawings. Care shall be taken by the Contractor to maintain a deflection space between the top of partition walls and floor or roof structure above.

6.4.2. See Typical Details and deflection requirements of horizontal framing members in Section 1 of these Notes for minimum deflection space between top of non load bearing partition walls and overhead structure.

6.5. VERIFICATIONS:

6.5.1. The General Contractor shall verify all openings sizes, pad sizes, and locations with the respective Subcontractors.

6.5.2. Structural steel supplier and erector are responsible for providing deck reinforcement or framing as shown on typical structural details for mechanical roof openings. See mechanical drawings for quantities, sizes and locations. The cost of structural redesign fees shall be borne by the Mechanical Contractor for equipment and/or opening changes made after structural documents have been issued.

6.6. CORE DRILLING:

6.6.1. All core drilling shall be done by the Mechanical and Electrical Subcontractors for their own work under the supervision of the General Contractor. No reinforcing steel shall be cut. Verify location of reinforcing steel before core drilling. Do not core through beams or columns. The maximum core hole through slabs shall be 12". If these requirements cannot be met, contact the Engineer.

6.7. NEW WORK IN CONJUNCTION WITH EXISTING CONSTRUCTION:

6.7.1. VERIFICATION: The Contractor shall verify, by field check, all sizes, dimensions, elevations, locations, etc. of elements of the existing construction which are relative to the new construction.

6.7.2. DIMENSIONS: All dimensions involving new Work tying into or governed by existing construction shall be field checked by the Contractor and furnished to the Subcontractors prior to fabrication of any Work. The verified dimensions shall appear and be noted as such on the first shop drawing submitted.

6.7.3. ASSUMPTIONS: The Engineer has made assumptions concerning the soundness of the existing buildings and these assumptions are that this building was designed and constructed in conformity with good design and construction practices. The Contractor shall take extraordinary precautions concerning preservation of the building during demolition and new construction Work. Further, the Contractor shall agree to assume all responsibility for the preservation of this property.

6.7.4. NOTIFICATION: The Contractor shall notify the Architect/Engineer immediately of any discrepancies between construction documents and actual field conditions.

6.7.5. HOLES: All holes through existing construction shall be core drilled or saw cut.

6.7.6. NEW OPENINGS IN EXISTING SLABS: New openings in existing slabs shall be cut in such a manner as to minimize cutting existing slab reinforcement. The slab shall not be overcut unless approved by the Engineer.

6.8. GENERAL:

6.8.1. These drawings do not include necessary components for construction safety.

6.8.2. The structural design is based only on the building in its completed state. Contractors and their subs shall take whatever precautions are necessary to withstand all horizontal and vertical loadings that may be encountered during the construction prior to completion of the building.

6.8.3. During construction, the Contractor may encounter existing conditions which are not now known or are at variance with project documentation (Discovery). Such conditions may interfere with new construction or required protection and/or support of existing Work during construction, or may consist of damage or deterioration to structural materials or components which could jeopardize the structural integrity of the building(s).

6.8.4. The Contractor shall notify the Engineer of all Discoveries that the Contractor believes may interfere with proper execution of the Work or jeopardize the structural integrity of the building(s) prior to proceeding with Work related to such Discoveries.

OVERALL PROJECT NOTES

TYPICAL MARKS

BP#	=	BASE PLATE	L - M# OR = L - S#	=	LINTEL
BRP#	=	BEARING PLATE	MP#	=	MASONRY PIER
B# OR B#-###	=	CONCRETE BEAM	PF#	=	PILE FOUNDATIONS
CC#	=	CONCRETE COLUMN	PB#	=	POST-TENSION BEAM
CCB#	=	CONCRETE COUPLING BEAM	PC#	=	PRECAST COLUMN
J# OR J#-###	=	CONCRETE JOIST	RWF#	=	RETAINING WALL FOOTING
CP#	=	CONCRETE PIER	SC#	=	STEEL COLUMN
DP#	=	DRILLED PIER	SH#	=	STEEL HANGER
DPC#	=	DRILLED PIER CAP	SP#	=	STEEL POST
EP#	=	EMBED PLATE	SR#	=	SPECIAL CMU REINFORCEMENT
GB#	=	GRADE BEAM	WF#	=	WALL FOOTING
F#	=	ISOLATED FOOTING			

TYPICAL SYMBOLS
- FOR ADDL SYMBOLS SEE PLAN LEGENDS.

STEP FOOTING
NEW GRID
EXISTING GRID
MATCHLINE
SLAB RECESS
SLAB JOINT
OPENING (STAIR 1)
WALL REINFORCEMENT
SHEAR WALL REINFORCEMENT
NORTH ARROW
ELEVATION
LINTEL
METAL DECK & DECK SPAN (D-)
COMPOSITE SLAB & DECK SPAN (CS-)
SPAN DIRECTION
EXISTING
EXTENT ARROW
AXIAL CONNECTION
BOTTOM FLANGE BRACING
REVISION
BEAM WEB PENETRATION MARK

STRUCTURAL ABBREVIATIONS

ADD	ADDENDUM	EA	EACH	K	KIP (1,000 POUNDS)	R	RADIUS
ADDL	ADDITIONAL	EF	EACH FACE	K/FT	KIPS PER FOOT	REF	REFERENCE
ALT	ALTERNATE	ELEC	ELECTRICAL	KLF	KIPS PER LINEAL FOOT	REINF	REINFORCEMENT
ANCH	ANCHOR (ANCHORAGE)	ENGR	ENGINEER	KSF	KIPS PER SQUARE FOOT	REQD	REQUIRED
ARCH	ARCHITECT, ARCHITECTURAL	EL	ELEVATION			REV	REVERSE/REVISION
@	AT	ELEV	ELEVATOR	L	ANGLE	RD	ROOF DRAIN
		EOD	EDGE OF DECK	LB	POUND	RO	ROUGH OPENING
BSMT	BASEMENT	EOR	ENGINEER OF RECORD	LG	LENGTH, LONG		
BM	BEAM	EOS	EDGE OF SLAB	LL	LIVE LOAD	SCHED	SCHEDULE
BRG	BEARING	EQ	EQUAL	LOC	LOCATION	SECT	SECTION
BTWN	BETWEEN	EQUIP	EQUIPMENT	LONG	LONGITUDINAL	SHT	SHEET
BLK	BLOCK	ERECT	ERECTION	LLH	LONG LEG HORIZONTAL	SIM	SIMILAR
BB	BOND BEAM	EW	EACH WAY	LLV	LONG LEG VERTICAL	SIP	STRUCTURAL INSULATED PANEL
BOT.BO.B/	BOTTOM	EXIST, (E)	EXISTING	LWT	LIGHT WEIGHT	SJI	STEEL JOIST INSTITUTE
BFE	BOTTOM FOOTING ELEVATION	EXP	EXPANSION			SOG	SLAB ON GRADE
BLKG	BLOCKING	EXT	EXTERIOR	MAX	MAXIMUM	SPA	SPACES
BLDG	BUILDING			MCJ	MASONRY CONTROL JOINT	SPEC	SPECIFICATIONS
		FD	FLOOR DRAIN	MEP / MECH	MECHANICAL, ELECTRICAL, PLUMBING	SQ	SQUARE
CANT	CANTILEVER	FDN/FND	FOUNDATION			STD	STANDARD
CIP	CAST IN PLACE	FL/FLR	FLOOR	MEZZ	MEZZANINE	STL	STEEL
CLG	CEILING	FRMG	FRAMING	MFR	MANUFACTURER	STIFF	STIFFENER
CTR	CENTER	FRT	FIRE RETARDANT TREATED	MIN	MINIMUM	STIR	STIRRUPS
CL	CENTERLINE	FS	FAR SIDE	MISC	MISCELLANEOUS	STRUCT	STRUCTURAL
CLR	CLEAR	FT	FOOT (FEET)	MO	MASONRY OPENING		
COL	COLUMN	FTG	FOOTING	MTL	METAL	TBE	TOP OF BEAM ELEVATION
COMP	COMPOSITE					TDE	TOP OF DECK ELEVATION
CONC	CONCRETE	GALV	GALVANIZED	(N)	NEW	TEMP	TEMPORARY
CMU	CONCRETE MASONRY UNIT	GA	GAGE	NEC	NECESSARY	TEMP STL	TEMPERATURE STEEL
CONN	CONNECTION(S)	GC	GENERAL CONTRACTOR	NO	NUMBER	TFE	TOP OF FOOTING ELEVATION
CONST	CONSTRUCTION	GB	GRADE BEAM	NOM	NOMINAL	THK	THICK
CONST.JT	CONSTRUCTION JOINT			NS	NEAR SIDE	T & B	TOP AND BOTTOM
CONT	CONTINUOUS	HD	HEADED	NIC	NOT IN CONTRACT	TO, T/	TOP OF
		HDR	HEADER	NTS	NOT TO SCALE	TOS	TOP OF STEEL
db	REINFORCING BAR DIAMETER	HK	HOOK	NWT	NORMAL WEIGHT	TOSL	TOP OF SLAB
DBL	DOUBLE	HT	HEIGHT			TRANSV	TRANSVERSE
DEFL	DEFLECTION	HS	HIGH STRENGTH	OC	ON CENTER	TWE	TOP OF WALL ELEVATION
DEG	DEGREES	HSS	HOLLOW STRUCTURAL TUBE	OPNG	OPENING	TYP	TYPICAL
DL	DEAD LOAD	HORIZ	HORIZONTAL	OD	OUTSIDE DIAMETER		
D, d	DEPTH			OF	OUTSIDE FACE	UNO	UNLESS NOTED OTHERWISE
DET	DETAIL	ID	INSIDE DIAMETER				
DIAG	DIAGONAL	IF	INSIDE FACE	/	PER	VERT	VERTICAL
DIA	DIAMETER	IN	INCH(S)	PC	PRECAST	VIF	VERIFY IN FIELD
DIM	DIMENSION	INFO	INFORMATION	PERP	PERPENDICULAR		
DWL(S)	DOWEL(S)	INT	INTERIOR	PL	PLATE	W, w	WIDTH
DN	DOWN			PROJ	PROJECTION	W/	WITH
DWG	DRAWING	JT OR JNT	JOINT	PSF	POUNDS PER SQUARE FOOT	W/O	WITH OUT
		JST	JOIST	PSI	POUNDS PER SQUARE INCH	WP	WORK POINT
		JBE	JOIST BEARING ELEVATION	PT	POST-TENSIONED	WT	WEIGHT
		JSD	JOIST SEAT DEPTH	PVC	POLYVINYL CHLORIDE	WWF	WELDED WIRE FABRIC

STRUCTURAL SHEET INDEX

- • INDICATES DRAWINGS ARE BEING ISSUED
- •S INDICATES DRAWINGS ARE BEING ISSUED AND SIGNED FOR THE FIRST TIME
- ▲ INDICATES DRAWINGS ARE BEING ISSUED ON SMALL SHEETS OR WRITE UP
- R INDICATES DRAWINGS ARE BEING ISSUED FOR REFERENCE ONLY (NOT FOR...

SHEET #	ISSUE: 2023.09.15 - CONSTRUCTION DOCUMENTS			SHEET TITLE
0.S001	•S			STRUCTURAL COVER SHEET & GENERAL STRUCTURAL NOTES
01.SE121	•S			STRUCTURAL - ROOF PLAN & DETAILS - A
01.SE122	•S			STRUCTURAL - ROOF PLAN & DETAILS - A WEST
05.SE121	•S			STRUCTURAL - ROOF PLAN - SJ
05.SE122	•S			STRUCTURAL - ROOF PLAN - H
05.SE123	•S			STRUCTURAL - ROOF PLAN - M, N
05.SE124	•S			STRUCTURAL - ROOF PLAN - S
05.SE125	•S			STRUCTURAL - ROOF PLAN - SO.NORTH
05.SE126	•S			STRUCTURAL - ROOF PLAN P.UPPER
07.SE121	•S			STRUCTURAL - ROOF PLAN & DETAILS
08.SE121	•S			STRUCTURAL - ROOF PLAN & DETAILS
09.SE121	•S			STRUCTURAL - ROOF PLAN & DETAILS
38.SE121	•S			STRUCTURAL - ROOF PLAN & DETAILS

Revision #	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
www.eraeng.com

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 16099
STEPHEN CLARK
SOUTH DAKOTA
9/15/2023

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: STRUCTURAL COVER SHEET & GENERAL STRUCTURAL NOTES
Phase: CONSTRUCTION DOCUMENTS
Approved:
FOR OFFICIAL USE ONLY
Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location: SIOUX FALLS, SOUTH DAKOTA
Issue Date: 09-15-2023
Checked: TDN
Drawn: CS/MJD
Project Number: VA #438-22-600 ERA #20221954
Building Number: OVERALL
Drawing Number: 0.S001

C:\Users\mdorn\Documents\20221954_S20_VAExteriorBuilding5_mdornERA.rvt
9/12/2023 9:29:54 AM

VA FORM 08 - 6231

MECHANICAL ABBREVIATIONS

AD	AREA DRAIN	ISO	ISOLATION EXHAUST
A.F.F.	ABOVE FINISHED FLOOR	KW	KILOWATT
AFMS	AIR FLOW MEASURING STATION	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LAV	LAVATORY
ANB	ACID NEUTRALIZING BASIN	LWT	LEAVING WATER TEMPERATURE
AP	ACCESS PANEL	MBH	BTU PER HOUR (THOUSANDS)
ARCH	ARCHITECT	MCF	THOUSAND CUBIC FEET
AS	AIR SEPARATOR	MH	MANHOLE
BD	BUTTERFLY DAMPER	NC	NOISE CRITERIA OR NORMALLY CLOSED
B/G	BELOW GRADE		
BTU	BRITISH THERMAL UNIT	NEG	NEGATIVE
BWV	BACKWATER VALVE	NIC	NOT IN CONTRACT
CCF	HUNDRED CUBIC FEET	NO	NORMALLY OPEN
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CL	CENTER LINE	OBD	OPPOSED BLADE DAMPER
CLG	CEILING	ORD	OVERFLOW ROOF DRAIN
CO	CLEAN OUT	PD	PRESSURE DROP OR DIFFERENCE
CONTR	CONTRACTOR	PE	PNEUMATIC-ELECTRIC
CONV	CONVECTOR	PLBG	PLUMBING
CUH	CABINET UNIT HEATER	PRV	PRESSURE REDUCING VALVE OR POWER ROOF VENTILATOR
CW	COLD WATER		
DB	DECIBEL	PSIA	POUNDS/SQ INCH ABSOLUTE
DF	DRINKING FOUNTAIN	PSIG	POUNDS/SQ INCH GAUGE
DIA	DIAMETER	PVC	POLY VINYL CHLORIDE
DIFF	DIFFUSER	RA	RETURN AIR
DISCH	DISCHARGE	RCP	REINFORCED CONCRETE PIPE
DMPR	DAMPER	RD	ROOF DRAIN
DN	DOWN	RECIRC	RECIRCULATING
DR	DRAIN	REG	REGISTER
DSN	DOWNSPOUT NOZZLE	RET	RETURN
DWG	DRAWING	RH	RELATIVE HUMIDITY
EAT	ENTERING AIR TEMPERATURE	RHT	REHEAT
EDR	EQUIVALENT DIRECT RADIATION	RHC	REHEAT COIL
EP	ELECTRIC-PNEUMATIC	RHW	RECIRCULATED HOT WATER
EWC	ELECTRIC WATER COOLER	RLF	RELIEF
EWT	ENTERING WATER TEMPERATURE	RM	ROOM
EXH	EXHAUST	RPM	REVOLUTIONS PER MINUTE
EXP	EXPANSION	RPZ	REDUCED ZONE BACKFLOW PREVENTER
F	FAHRENHEIT		
FC	FAN COIL	SA	SUPPLY AIR
FCO	FLOOR CLEAN OUT	SAN	SANITARY
FD	FLOOR DRAIN	SCFM	CFM, STANDARD CONDITIONS
FHC	FIRE HOSE CABINET	SD	SMOKE DAMPER
FHR	FIRE HOSE RACK	SP	STATIC PRESSURE
FLR	FLOOR	SPECS	SPECIFICATIONS
FLEX	FLEXIBLE	SUP	SUPPLY
FM	FIRE MAIN	SQ	SQUARE
FPM	FEET PER MINUTE	STM	STEAM
FPS	FEET PER SECOND	TD	TEMPERATURE DIFFERENCE
FT	FEET OR FOOT	TEMP	TEMPERATURE
F&T	FLOAT AND THERMOSTATIC	TONS	TONS OF REFRIGERATION
FTG	FOOTING	T-STAT	THERMOSTAT
FTR	FINNED TUBE RADIATION	TYP	TYPICAL
FV	FACE VELOCITY	UB	UP-BLAST
GA	GAUGE	UG	UNDERGROUND
GAL	GALLON	UH	UNIT HEATER
GEXH	GREASE EXHAUST	UR	URINAL
GPH	GALLONS PER HOUR	V	SANITARY VENT
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME
GR	GRILLE	VD	VOLUME DAMPER
HB	HOSE BIBB	VEL	VELOCITY
HD	HEAD	VFD	VARIABLE FREQUENCY DRIVE
HOA	HANDS-OFF-AUTOMATIC	VOL	VOLUME
HTG	HEATING	VTR	VENT THROUGH ROOF
HTR	HEATER	W	SANITARY WASTE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	W/	WITH
		W/0	WITHOUT
HYD	HYDRANT	WC	WATER CLOSET
HW	HOT WATER	WCO	WALL CLEANOUT
GCO	GRADE CLEANOUT	WH	WALL HYDRANT
INSUL	INSULATION	WTR	WATER
INV	INVERT		

MECHANICAL SYMBOLS LEGEND

PLUMBING

AV	ACID VENT
AW	ACID WASTE
DI	DEIONIZED WATER
CW	DOMESTIC COLD WATER
CWV	CLEAR WATER VENT
CWW	CLEAR WATER WASTE
FW	FILTERED WATER
GW	GREASE WASTE
HW	DOMESTIC HOT WATER
140	DOMESTIC HOT WATER (TEMP. INDICATED)
140 RHW	DOM. RECIRC. HOT WATER (TEMP. INDICATED)
RHW	DOMESTIC RECIRC. HOT WATER
HARD	HARD COLD WATER
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER
OSD	OVERFLOW STORM DRAIN
RO	REVERSE OSMOSIS WATER
V	SANITARY VENT
W	SANITARY WASTE
SS	SANITARY SEWER
SDT	SOIL DRAINAGE TILE
SOFT	SOFTENED COLD WATER
SHW	SOFTENED HOT WATER
TW	TEMPERED WATER
SD	STORM DRAIN
WW	WELL WATER
	EXISTING PLUMBING TO REMAIN
	EXISTING PLUMBING TO BE REMOVED

MECHANICAL PIPING

BF	BOILER FEED
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
10#A	COMPRESSED AIR (PSI INDICATED)
CD	CONDENSATE DRAIN
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FOF	FUEL OIL FILL
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
HRS	HEAT RECOVERY SUPPLY
HRR	HEAT RECOVERY RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
IG	INTERRUPTIBLE GAS
LV	LABORATORY VACUUM
LA	LABORATORY AIR
LPG	LIQUIFIED PETROLEUM GAS
2#G	NATURAL GAS (PSI INDICATED)
PV	PLANT VACUUM
PC	PUMPED CONDENSATE
RADS	RADIATION WATER SUPPLY
RADR	RADIATION WATER RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RHG	REFRIGERANT HOT GAS BYPASS
RHS	REHEAT WATER SUPPLY
RHR	REHEAT WATER RETURN
RRS	REMOTE RADIATOR SUPPLY
RRR	REMOTE RADIATOR RETURN
SHWS	SECONDARY HEATING WATER SUPPLY
SHWR	SECONDARY HEATING WATER RETURN
SMS	SNOW MELT SUPPLY
SMR	SNOW MELT RETURN
10#STM	STEAM SUPPLY (PSI INDICATED)
10#R	STEAM RETURN (PSI INDICATED)
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED

PLUMBING /PIPING

- ELBOW DOWN
- PIPE CAP
- ELBOW UP
- TEE, OUTLET UP
- TEE, OUTLET DOWN
- CONNECTION, BOTTOM
- CONNECTION, TOP
- ECCENTRIC REDUCER
- CONCENTRIC REDUCER
- FLEXIBLE CONNECTION
- EXPANSION JOINT
- PIPE ANCHOR
- ALIGNMENT GUIDE
- CHECK VALVE
- SHUTOFF VALVE
- PLUG VALVE
- COMBINATION BALANCE VALVE AND FLOW METER
- STRAINER
- STRAINER W/BLOWDOWN CAP AND VALVE
- PRESSURE REDUCING VALVE (SETTING AS NOTED, PSI)
- AUTOMATIC CONTROL VALVE, 2-WAY
- AUTOMATIC CONTROL VALVE, 3-WAY
- M / A — AUTOMATIC AIR VENT / MANUAL AIR VENT
- PRESSURE RELIEF/SAFETY VALVES(SETTING AS NOTED, PSI)
- DRAIN VALVE
- OR — BALL VALVE
- OR / OR — BUTTERFLY VALVE
- DIAPHRAGM
- GLOBE ANGLE VALVE
- OR — O. S. & Y. VALVE
- REDUCED PRESSURE ZONE BACK FLOW PREVENTER
- S — SOLENOID VALVE
- FLOW LIMITING VALVE
- REFRIGERANT SIGHT GLASS
- OR — GLOBE VALVE
- GATE VALVE
- GAS PRESSURE REGULATOR VALVE
- BACKWATER VALVE
- REFRIGERANT DRYER
- FLOW DIRECTION
- FLOW DIRECTION W/PITCH
- DUPLEX STRAINER
- PIPE UNION
- PIPE FLANGE
- PUMP
- PRESSURE GAUGE W/PIGTAIL & PETCOCK
- THERMOMETER
- PRESSURE/TEMPERATURE TEST PORT
- STEAM TRAP (TYPE INDICATED)
- GPM — FLOW MEASURING STATION (FLOW INDICATED)
- FS — FLOW SWITCH
- PS — PRESSURE SWITCH
- SHOCK ABSORBER
- GAS COCK VALVE
- ELBOW
- TEE
- FLOOR DRAIN
- FLOOR SINK
- WH — WALL HYDRANT
- HB — HOSE BIBB
- CLEANOUT
- WALL CLEANOUT
- ROOF DRAIN
- DRAIN ABOVE
- CATCH BASIN
- MANHOLE

DUCTWORK

- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- EXISTING DUCT TO BE REMOVED
- STANDARD BRANCH, NO SPLITTER - SUPPLY FLOW TO RIGHT - RETURN/EXHAUST FLOW TO LEFT
- BELLMOUTH WITH BALANCING DAMPER
- FLEXIBLE DUCT
- TURNING VANES
- FLEXIBLE CONNECTION
- MANUAL VOLUME DAMPER
- M — MOTORIZED DAMPER
- HORIZONTAL FD FD VERTICAL — FIRE DAMPER & ACCESS PANEL
- HORIZONTAL SD SD VERTICAL — SMOKE DAMPER & ACCESS PANEL
- HORIZONTAL FSD FSD VERTICAL — COMBINATION FIRE/SMOKE DAMPER & ACCESS PANEL
- SUPPLY GRILLE OR REGISTER
- RETURN OR EXHAUST GRILLE OR REGISTER
- SUPPLY DUCT UP, POSITIVE PRESSURE
- RETURN DUCT UP, NEGATIVE PRESSURE
- EXHAUST DUCT UP, NEGATIVE PRESSURE
- SUPPLY DUCT DN, POSITIVE PRESSURE
- RETURN DUCT DN, NEGATIVE PRESSURE
- EXHAUST DUCT DN, NEGATIVE PRESSURE
- SUPPLY DIFFUSER/REGISTER BLANKOFF INDICATED
- RETURN GRILLE/REGISTER
- EXHAUST GRILLE/REGISTER
- LINEAR DIFFUSER
- CONCENTRIC DUCT TRANSITION
- ECCENTRIC DUCT TRANSITION
- RECTANGULAR-TO-ROUND DUCT TRANSITION
- VAV BOX
- VAV BOX W/REHEAT COIL
- REHEAT COIL
- RISE / DROP — DUCT OFFSETS
- DUCT CUTLINE

CONTROLS

- T — TAMPERPROOF THERMOSTAT
- P — P — ROOM PRESSURE MONITOR
- T — AQUA STAT
- T — THERMOSTAT W/GUARD
- CO — CARBON MONOXIDE SENSOR
- H — HUMIDISTAT OR R.H. SENSOR
- R — REFRIGERANT SENSOR
- SD — SMOKE DETECTOR
- TS — SPACE TEMPERATURE SENSOR
- SP — STATIC PRESSURE SENSOR
- T — THERMOSTAT
- CO2 — CARBON DIOXIDE SENSOR

ANNOTATION

- (4)A-12"Ø / 450 — QUANTITY, TYPE, SIZE, CFM — GRILLE, REGISTER, & DIFFUSER IDENTIFICATION
- TYPE → FTR/RP 01, 6'-5" ACTIVE ELEMENT LENGTH, GPM → 0.5 — HYDRONIC FINNED TUBE RADIATION & RADIANT PANEL IDENTIFICATION
- TYPE → EBR 01, 6'-5" ACTIVE ELEMENT LENGTH — ELECTRIC BASEBOARD RADIATION IDENTIFICATION
- DETAIL NUMBER / SHEET NUMBER
- SECTION NUMBER / SHEET NUMBER
- EQUIP DESIGNATION / EQUIP NUMBER
- POINT OF CONNECTION, NEW TO EXISTING
- POINT OF DISCONNECTION

MEDICAL GAS

MV	MEDICAL VACUUM
WAGD	WASTE ANESTHETIC GAS DISPOSAL
CO2	CARBON DIOXIDE
O	OXYGEN
N	NITROGEN
N2O	NITROUS OXIDE
MA	MEDICAL AIR
IA	INSTRUMENT AIR
ZVB	ZONE VALVE BOX
AAP	AREA ALARM PANEL
MAP	MASTER ALARM PANEL
CAP	COMBINATION AREA/MASTER ALARM PANEL

PROCESS AND LABORATORY

LA	LABORATORY AIR
LV	LABORATORY VACUUM
CDA	CLEAN DRY AIR
RO	REVERSE OSMOSIS
DI	DEIONIZED WATER
N	NITROGEN
HV	HOUSE VACUUM
PV	PLANT VACUUM
AV	ACID VENT
AW	ACID WASTE

FIRE PROTECTION

F	FIRE PROTECTION
DFP	FIRE PROTECTION (DRY SYSTEM)
	POST INDICATOR VALVE (PIV)
	FIRE HYDRANT WITH SHUTOFF VALVE
FDVC	RECESSED FIRE DEPT CABINET
FDVC	SURFACE MOUNTED FIRE DEPT CABINET
	FIRE PROTECTION RISER
	UPRIGHT SPRINKLER HEAD W/GUARD
	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
TS	BUTTERFLY VALVE W/TAMPER SWITCH
	DETECTOR CHECK W/BYPASS METER
	GRADE FIRE DEPT CONNECTION
	FLUSH FIRE DEPT CONNECTION
FDV	FIRE DEPT VALVE W/CAP AND CHAIN
TS	O.S. & Y. VALVE W/TAMPER SWITCH
	DRY PIPE VALVE
	PREACTION VALVE

MEP SHEET LIST

SHEET NUMBER	SHEET NAME
00.MEP000	MECHANICAL, ELECTRICAL, PLUMBING TITLE SHEET
~~01.MEP121~~	~~M/E/P ROOF PLAN - A~~
~~01.MEP122~~	~~M/E/P ROOF PLAN - A, B, C~~
~~01.MEP123~~	~~M/E/P ROOF PLAN - D~~
05.MEPD121	M/E/P ROOF PLAN - DEMOLITION - A, B, C, D, E, F
05.MEPD122	M/E/P ROOF PLAN - DEMOLITION - G, H, I
05.MEPD123	M/E/P ROOF PLAN - DEMOLITION - J, K, M, N
05.MEPD124	M/E/P ROOF PLAN - DEMOLITION - L, O.SOUTH
~~05.MEPD125~~	~~M/E/P ROOF PLAN - DEMOLITION - O.NORTH~~
05.MEPD126	M/E/P ROOF PLAN - DEMOILITION - P.UPPER
05.MEPD127	M/E/P ROOF PLAN - DEMOLITION - P.LOWER
05.MEPD128	M/E/P ROOF PLAN - DEMOLITION - Q, S
05.MEPD129	M/E/P ROOF PLAN - DEMOLITION - R
05.MEP121	M/E/P ROOF PLAN - A, B, C, D, E, F
05.MEP122	M/E/P ROOF PLAN - G, H, I
05.MEP123	M/E/P ROOF PLAN - J, K, M, N
05.MEP124	M/E/P ROOF PLAN - L, O.SOUTH
~~05.MEP125~~	~~M/E/P ROOF AND GROUND FLOOR PLANS - O.NORTH~~
05.MEP126	M/E/P ROOF PLAN - P.UPPER
05.MEP127	M/E/P ROOF PLAN - P.LOWER
05.MEP128	M/E/P ROOF PLAN - Q, S
05.MEP129	M/E/P ROOF PLAN - R
07.MEP121	M/E/P ROOF PLAN
~~08.MEP121~~	~~M/E/P ROOF PLAN~~
09.MEP121	M/E/P ROOF PLAN
~~11.MEP121~~	~~M/E/P ROOF PLAN~~
~~16.MEP121~~	~~M/E/P ROOF PLAN~~
~~17.MEP121~~	~~M/E/P ROOF PLAN~~
~~38.MEPD121~~	~~M/E/P ROOF PLAN - DEMOLITION~~
~~38.MEP121~~	~~M/E/P ROOF PLAN~~
52.MEP121	M/E/P ROOF PLAN

SHEET TOTAL: 31

REGISTERED PROFESSIONAL ENGINEER REG. NO. 14944 JASON R. GOTTWALT SOUTH DAKOTA

Revision#	Description	Date:

CONSULTANTS

CIVIL: EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP: DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

REGISTERED PROFESSIONAL ENGINEER REG. NO. 7073 JAY ROHKOHL SOUTH DAKOTA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL, ELECTRICAL, PLUMBING TITLE SHEET
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FOR OFFICIAL USE ONLY
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	09-15-2023
Checked	JRG
Drawn	JG,TM,BZ
Project Number	VA #VA #438-22-600 SGA #221926
Building Number	Author
Drawing Number	00.MEP000

1. SPECIFICATIONS TO BE USED

The most current edition of the City of Sioux Falls (City) General Conditions for Public Improvements and Supplemental Standard Specifications, together with the most current edition of the South Dakota Department of Transportation (SD DOT or DOT) Standard Specifications for Roads and Bridges with Supplemental Specifications and Errata, City and DOT Standard Plates and Required Provisions, Supplemental Specifications, and/or Special Provisions as included in the Project Manual (if any) are hereby made a part of these specifications in its entirety unless otherwise revised, deleted, or supplemented herein.

There standards and/or specifications are in conflict, the most stringent shall take precedence unless there is specific language explaining that a weaker standard is to take precedence over the more stringent. The mere appearance of a weaker standard in these plans does not construe its supremacy over the more stringent standard.

Questions regarding precedence of standards and specifications or their meaning may be submitted in email form.

CONTACT: DAMIAN GREBLE, EHRHART GRIFFIN & ASSOCIATES
EMAIL: DAMIAN@EGASF.COM

Copies of government produced standards and specifications are available for download from those governments via their respective web sites.

2. PLANS AND ELECTRONIC FILES

The contractor shall ensure all subcontractors and trades have with them, or available to them while they are on site, the most current approved plan set in paper, DWF, or PDF formats. Contractor to reachout to COR for final plans. "Plan set" shall mean all plans, addendums, change orders, and supplemental information that are part of the contract document, or the consultant's portion there of.

This plan set may contain elements and text that are in color. It is the sole responsibility of the end user to verity that the information conveyed by the use of color is accurately conveyed by the output medium.

Contractor to reachout to COR for final plans, subject to the following conditions:

A. Electronic design files are provided for reference only. In the event of a discrepancy between the electronic design files and the contract documents, the contract document shall prevail unless specifically noted in the electronic file or in the associated correspondence.
B. The electronic design files for distribution may be limited to existing survey line work, existing ground model, proposed utility design, surfacing line work, and finished ground surface model. Additional information may be distributed at the engineer's discretion.
C. The electronic design files will not include any modifications due to addendum or previous field changes unless specifically noted in the electronic file or associated correspondence.

Contractor to reachout to COR for final plans, unless another procedure is specified elsewhere in the contract documents. Requesters should allow two (2) business days from the approval of request for the file(s) to be furnished. An electronic file release may be required at the engineer's discretion before the electronic files are released.

3. EXISTING UTILITY LOCATIONS

Existing utilities are shown on the drawings are approximate and are as located by utility companies or their representatives at the time of the survey. There is no guarantee that all utilities have been located or that the locations as shown are exact. The contractor shall be responsible for notifying S.D. ONE-CALL SYSTEM (1-800-781-7474) to have each and every utility field located prior to commencement of work. The contractor shall record and preserve utility markings.

The contractor shall safeguard all utilities and coordinate their efforts to coincide with utility work by others in order to minimize inconvenience to the public and utility companies. Any damage caused to the utilities due to contractor carelessness shall be repaired at the contractor's expense to the satisfaction of the utility owner.

4. UTILITY COORDINATION & PROTECTION

Private utility companies and public utilities may be making adjustments and/or improvements to their facilities coincidental to or because of this project. Utility alignment and grade adjustments shall be coordinated with the utilities owner/companies by the contractor. Private utility companies and public utilities with infrastructure within the project limits or otherwise impacted by the project shall be invited to all pre-construction and construction meetings to facilitate coordination.

Protection: The Contractor shall protect all existing private and public utility infrastructure. In the event infrastructure is damaged, the contractor shall immediately contact the impacted utility provider. Utility staff will make the required disconnections/shutoffs unless the contractor has been authorized to effect the emergency disconnection/shutoff. Any Contractor emergency disconnections/shutoffs performed must be in active coordination with the utility staff. The Contractor shall provide, at no cost to the owner and/or utility, all necessary labor, materials, and equipment to restore the utility infrastructure, subject to the approval of the Private Utility Company and/or the Public Utility.

The Contractor shall maintain an emergency call list of all utility companies and departments onsite and readily available to all people working on the site.

City of Sioux Falls Light Department 605/373-6979
City of Sioux Falls Water Division 605/367-8805

5. NOISE PERMIT

The contractor shall obtain a noise permit from the City of Sioux Falls Health Department (MARK SCHUTTLOFFEL 605/367-8783) if working between 10:00 pm to 6:00 am. The contractor shall submit a request in writing to the City for approval 24 hours in advance when nighttime work is to occur.

6. CONTRACTOR SUPERINTENDENT

Contractor shall designate a qualified and experienced construction superintendent who shall be present at the job site when any significant or controlling work is being accomplished. Superintendent shall be responsible for coordinating and directing the work of all subcontractors. Superintendent and all subcontractors shall be equipped with a set of project plans and specifications when present on the job site.

7. CONTRACTOR SAFETY REQUIREMENTS

The Contractor is responsible for following all local, state, and federal rules and regulations regarding site safety. The Contractor is solely responsible for site safety from the issuance of the Notice to Proceed until Final Acceptance. The Owner and Engineer shall not be responsible for the Contractor's failure to follow all applicable rules and regulations.

8. PORTABLE TOILET FACILITIES

The Contractor will be responsible for providing portable toilet facilities for the project at no cost to the Owner.

9. DAMAGE TO PRIVATE & CITY OWNED PROPERTY

Care shall be taken by the contractor such that private property and City owned property located adjacent to construction limits is not damaged during construction operations. Damage to private property caused by the carelessness of the contractors forces shall be repaired or replaced at the Contractors expense and to the satisfaction of the engineer and the private property owner.

10. DRAINAGE & STOREWATER

Drainage is the Contractor's responsibility. Contractor shall be aware of existing drainage conditions and facilities, and shall provide for drainage during all phases of construction. Damage caused by improper temporary drainage facilities shall be repaired at the Contractor's expense and to the satisfaction of the engineer.

11. DEWATERING

It shall be the responsibility of the Contractor to discharge and dispose of the water in an approved manner. No water shall be allowed to enter the sanitary sewer. The Contractor shall dispose of water in a suitable manner without damage to adjacent property. The water shall be filtered using an approved method to remove sand and fine-sized soil particles before disposal into any drainage system. Discharge from dewatering operations shall be controlled to prevent erosion and scour.

The Contractor is responsible for obtaining a temporary water use permit from the SDDENR prior to commencing dewatering operations. Prior to excavating, the Contractor shall submit for review a dewatering plan to be approved by the Engineer.

12. GRADE STAKES, BENCHMARKS AND MONUMENTS

All stakes, stones, and monuments now in place and marking lines and corners of boundaries which are likely to be affected by the work herein provided for shall be carefully preserved by the Contractor. In no case shall any excavation be made within five feet (5') of any such stake, stone or monument until they have been properly reset, witnessed, or otherwise cared for by the Engineer and permission given to proceed with the work.

All lines, grade stakes, and benchmarks set by the engineer in connection with the work herein provided for shall be carefully preserved by the Contractor and shall not be disturbed nor moved from the exact position and elevation as set by the Engineer. No excavated material shall be thrown over or against said stakes and, except where necessary to remove the stakes as the work progresses, all stakes shall be carefully preserved in the original position and elevation until the work has passed final inspection and been accepted. Stakes which must be removed as the work progresses shall be so removed only upon the order of the Engineer.

All stakes, stones, monuments, and benchmarks disturbed or removed through carelessness or without proper authority will be reset at the expense of the Contractor.

13. FIELD QUALITY CONTROL

A. TESTING AGENCY: Contractor will engage a qualified independent geotechnical engineering testing agency to perform field quality-control testing.
B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earthwork only after test results for previously completed work comply with requirements.
C. FOOTING SUBGRADE: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.
D. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable.
E. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil of depth required; recompact and retest until specified compaction obtained.

14. WASTE DISPOSAL SITE

All material generated from this project for disposal must be disposed of at a state-permitted solid waste disposal site. Depending on what material is generated and whether it is contaminated or uncontaminated will determine which permitted facility can accept it. Permitted facilities include construction and demolition debris sites, restricted use sites, and regional landfills. The contractor can contact SDDENR WASTE MANAGEMENT PROGRAM at 605/773-3153 to identify locally permitted disposal sites for various categories of contaminated and uncontaminated materials.

15. GENERAL MAINTENANCE OF TRAFFIC

The contractor shall furnish and maintain all necessary traffic control devises and flaggers. Installation of traffic control shall conform the current Manual on Uniform Traffic Control Devices (MUTCD) unless otherwise modified in the plans.

The contractor shall notify the city 7 days prior the to start of construction and before any substantial traffic control change. The contractor shall notify the city to move, adjust, reset, or maintain existing stop signs or other signs in their jurisdiction when necessary. A minimum of 48 hours notice will be required for all other traffic control changes. The contractor shall coordinate all temporary and permanent traffic control with the city with sufficient notice to the City.

The contractor shall designate an employee or subcontractor whose responsibility is the maintenance of traffic, 24 hours a day and 7 days a week. The person so designated must have training and experience in the field of construction traffic control and be knowledgeable about the MUTCD. The designated employee or designated traffic control subcontractor shall ensure the adequacy, legibility, and reflectivity of each sign and device.

Certified flaggers, properly attired, and preceded by a W20-7A Flagger Symbol Signs are required where work activity and/or equipment presents a hazard to the workers, a hazard to the through traffic, or encroaches into a lane open to traffic.

Any damage to public or private property caused by the contractor's signing shall be repaired at the contractor's expense.

16. TRAFFIC CONTROL DEVICES

Traffic control devices shall conform to the requirements of the Manual of Uniform Traffic Control Devices issued by the Federal Highway Administration and the City of Sioux Falls Traffic Control Manual. Work included in this item shall comply with Section 634 of the SD DOT Standard Specifications, current edition. Traffic control devices listed in these are the minimum requirements and, depending on exact construction sequences, may not be a complete inventory of all signs, barricades and devices required.

Contractor shall adequately barricade closed streets during construction. Streets shall not be closed without notification and approval of the Engineer and the City of Sioux Falls Public Works Department.

Traffic Control Devices shall meet the crash worthy requirements of the National Cooperative Highway Research Program Report 350 (NCHRP 350) for Category I, II and III Devices:

A. Category I Traffic Control Devices include low mass, single piece traffic cones, tubular markers, single piece drums, and delineators. Auxiliary lights or signs shall not be attached to these devices, unless approved has been granted by Federal Highway Administration (FHWA). These devices may be certified as being nchrp 350 crash worthy by the manufacturer.

B. Category II Traffic Control Devices include those which are larger than the Category I devices and may weigh up to 100 pounds. This includes plastic barricades and portable sign supports. Acceptable Category II devices are those which have been crash tested and have received an acceptance letter from the FHWA.

C. Category III Traffic Control Devices include barriers or other fixed or high mass devices including portable sign trailers. Portable sign trailers must be crash tested and have received an acceptable letter from the FHWA. It is the responsibility of the contractor to ensure that all devices meet the applicable NCHRP 350 requirements.

The following traffic control devices: reflectorized drums, cones, tubular markers and detour signs (M4-8, M4-9, OR M4-10 Series) shall be sheeted with micro-cube corner prismatic material. Orange colored material shall be fluorescent.

All signs mounted on fixed supports which are wider than 36 inches or larger than 10 square feet in area shall be mounted on two posts.

Signs and barricades are periodically required to be moved due to construction operations. They shall be placed at locations where they give sufficient warning to motorists and pedestrians of the condition ahead and shall be relocated as needed to keep signing current at required locations.

Spacing of channeling devices should not exceed 50' in tangent sections and 15' in taper sections.

The contractor shall remove or cover all non-applicable existing traffic signs along the detour route. When the detour signing is removed, the contractor shall uncover or reinstall the signs to their original location.

During non-working hours, non-applicable traffic control signs and/or devices shall be removed from view and stored a minimum distance of 30' from the driving lanes.

The contractor shall protect and restrict all pedestrians from work areas. A-frame barricades shall protect pedestrians from open excavations and other hazards.

The exact location of all traffic control devices shall be determined at the site.

17. SIDEWALKS

Sidewalk joints shall be spaced equally to the width of the walk unless otherwise noted and shall be consistent with ACPA or ACI guidelines. The typical sidewalk section will be 4" of PCC on a 2" gravel cushion unless otherwise noted. Refer to local standards where available and follow the most stringent specification.

Any pedestrian pathways or sidewalks installed on or adjacent to this site development shall be fully ADA compliant. The City will be inspecting new sidewalk installations for compliance. After sidewalk installation is complete, contractor shall contact the City Engineer's Office at 605/367-8601 to schedule an inspection. Any sections of sidewalk found to be out of compliance will be removed and replaced by the permit holder. There are no construction tolerances on maximum or minimum grades. For example, the contractor may want to set sidewalk forms at a 1.5% cross slope to fall under the 2% maximum sidewalk cross slope.

Existing sidewalk along the public right of way has been/will be inventoried by the City. Non compliant sidewalk and driveway approaches shall be removed and replaced or otherwise be made fully ADA compliant by the permit holder per the inventory.

18. GENERAL NOTES

A. SEVERABILITY: The provisions of these plans and attached documents are severable, and if any provision of these documents, or the application of any provision of these documents to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of these documents shall not be affected thereby.

B. When the Owner is also the Contractor, both Owner and Contractor provisions shall apply to the Owner.

C. The contractor shall keep all said water, gas and existing sewers and their appurtenances free of debris and operable at all times during construction.

D. The contractor shall notify the City Engineer's Office upon completion of water main, sanitary sewer, and/or storm sewer work separately and prior to paving. Inspection of the specific completed utility will be made by the City Engineer's Office with the contractor and all discrepancies will be noted. If deficiencies are identified they shall be corrected. Paving shall not begin until deficiencies have been corrected to the City's satisfaction.

E. The contractor shall perform air and water leakage tests and sewer televising in accordance with the City of Sioux Falls Supplemental Standards. Cost of tests and televising shall be considered incidental to the project.

F. All manhole/inlet stationing shown are to the center of the manhole/inlet. All sanitary pipe lengths shown are from the center of the structure. All storm pipe lengths shown are from the inside wall of the structure.

G. Any discontinued extensions or services not to be used shall be disconnected, at the owners expense, at the city main at the City Engineer's discretion.

H. Protect, by whatever means required, all mailboxes, fences, signs, structures, drives, sidewalks, streets, poles, bushes, trees, etc. which are not designated for removal or are outside the construction limits. The contractor shall keep all vehicles, equipment, materials and construction activities outside the limits of the canopies of all trees. Any mailboxes in conflict with proposed utilities shall be moved temporarily during construction operations and reset in or near their original locations upon completion of construction.

I. All dimensions and elevations marked with an asterisk (*) shall be field verified prior to construction. Notify the engineer of any conflicts with the drawings prior to construction.

J. Paving dimensions are as shown on the civil & architectural plans. A difference in the site layout and the civil plans shall be brought to the attention of the engineer.

K. All Manholes, valve boxes, junction boxes, and all other utility surface infrastructure shall be adjusted to finish surface. Coordinate with utility owner as needed.

L. The contractor shall construct all pavements to conform with the correct cross sections, lines, and finish grades as indicated on the plans. No ponding of water shall be allowed.

M. Curb backfilling shall be completed within 4 to 7 working days after curb placement.

N. The excess soil resulting from earthwork activities, if any, shall become the property of the contractor who shall be responsible for its legal removal from the site. OR The excess soil resulting from earthwork activities, if any, shall be stockpiled or distributed on site at a location per owner's direction.

O. Ehrhart Griffin & Associates (EGA) shall perform all construction staking for the project. Construction staking will be performed one time only. Any reworking or restaking required shall be at the expense of the contractor and provided at EGA's hourly rate. Construction staking shall include paving top of curb hubs at 50' each side of the centerline on tangent sections, and 25' each side of the centerline on curves at offsets as requested. Storm sewer staking shall include a nail at the center of each manhole, and hub offsets (as requested) at the beginning of structure (or pipe), 50' station from structure and 100' stations thereafter. Inlets will be positioned by offset hubs aligned with the back of curb and graded to the top of curb. Sanitary sewers will be staked out with a nail at the center of each manhole, hub offsets (as requested) at beginning of each structure, 50' station from structure and 100' stations thereafter. The percent of grade of pipe will be marked at each manhole offset. Sanitary sewer laterals will be marked with a 4' wooden lath on the center line of end point of the lateral at the property line.

Revision#	Description	Date:
.	.	.
.	.	.
.	.	.
.	.	.

CONSULTANTS

CIVIL: EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates, 601 N Minnesota Ave, Sioux Falls, SD 57104, Phone: 605-339-7215

STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates, 2550 University Ave W, Suite 423-S, St. Paul, MN 55402, Phone: 651-251-7570

MEP: DUNHAM
Dunham Associates, Inc., 50 South Sixth St, Suite 1100, Minneapolis, MN 55402, Phone: 612-465-7550

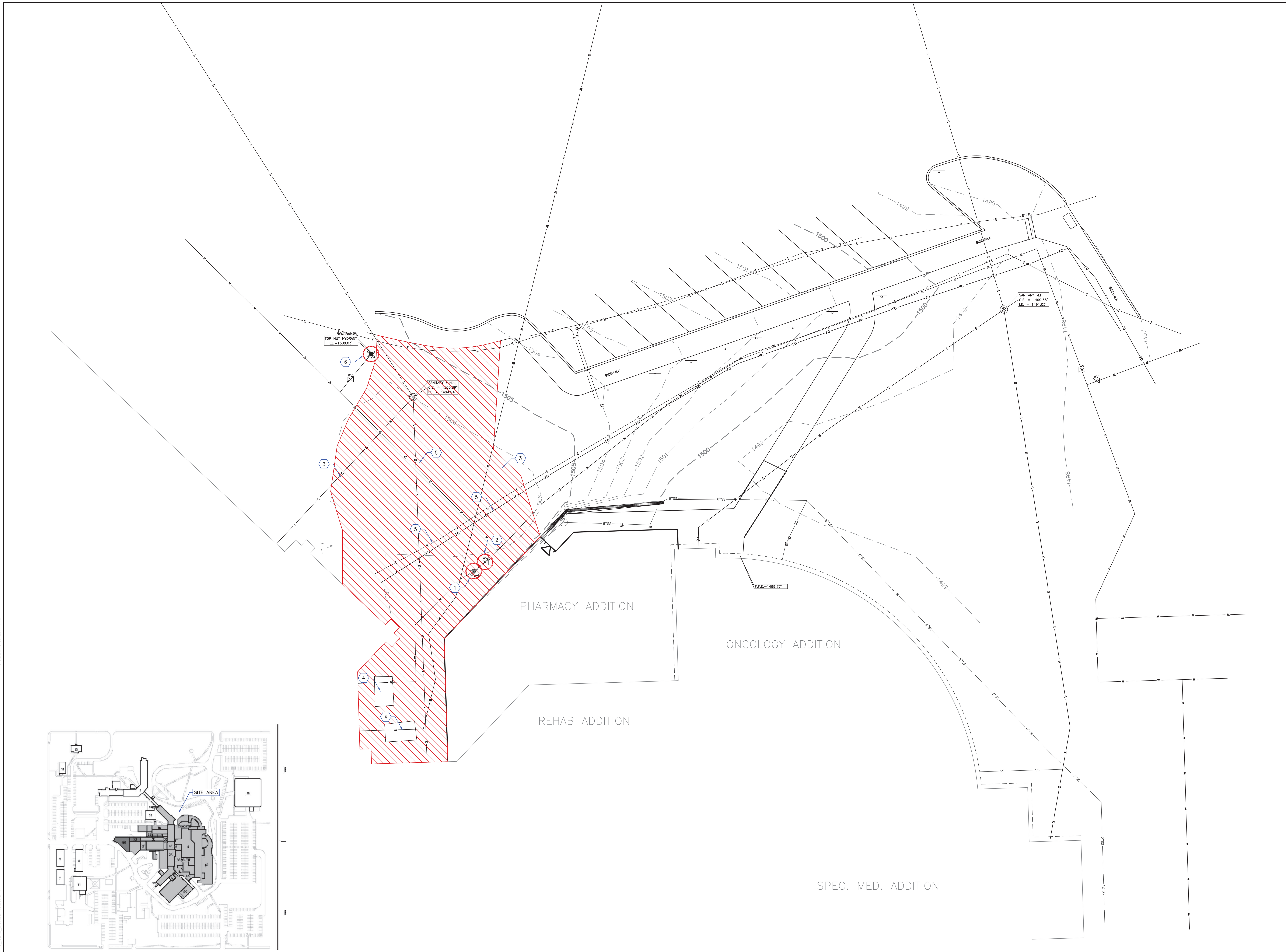
ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc., 600 East 7th Street, Sioux Falls, SD 57103, Phone: 605-271-1144

STAMP
PROFESSIONAL ENGINEER AND LAND SURVEYOR — DAMIAN F. GREBLE — SOUTH DAKOTA

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: CIVIL - GENERAL NOTES
Approved:
Phase: CONSTRUCTION DOCUMENTS
FOR OFFICIAL USE ONLY
Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location: SIOUX FALLS, SOUTH DAKOTA
Issue Date: 09-15-2023 | Checked: DFG | Drawn: PDB
EGA# SD221281
Project Number: VA #VA #438-22-600, SGA #221926
Building Number: 5
Drawing Number: 05.CS01

VA FORM 08-6231
8/30/2018 9:12:17 AM
C:_SGA Revit Local\181906_VA_PHARM_A18_Opt2_Dorisa Nelson.rvt



NORTH

SCALE 1" = 10'

10 0 10 20 30 FT.

LEGEND

C.T.P. – CRIMPED TOP PIPE
O.T.P. – OPEN TOP PIPE
S.D.H. – STAR DRILL HOLE
"X" – CHISELED "X" IN CONCRETE
P – PLAT DISTANCE
A – ACTUAL DISTANCE
R – RECORDED DISTANCE
C – CALCULATED DISTANCE
RAD – RADIUS OF CURVE
TBM – PROJECT BENCH MARK
C.E. – COVER ELEVATION
I.E. – INVERT ELEVATION
TC – TOP OF CURB
FFE – FINISHED FLOOR ELEVATION
– FOUND PROPERTY PIN
– SET PROPERTY PIN
– CONTROL POINT
– SECTION CORNER
– FIRE HYDRANT
– WATER SHUTOFF
– WATER VALVE
– WATER MANHOLE
– WATER METER PIT
– WELL
– STORM SEWER MANHOLE
– SANITARY MANHOLE
– SANITARY CLEAN OUT
– GAS VALVE
– GAS METER
– ELECTRIC PEDESTAL
– TELEPHONE PEDESTAL
– UTILITY CLOSURE
– ELECTRIC MANHOLE
– UTILITY POLE
– POWER POLE
– STREET LIGHT
– TRAFFIC SIGNAL LIGHT
– PEDESTRIAN SIGNAL LIGHT
– GUY ANCHOR
#4 – TEST HOLE AND NUMBER
– SIGN
– FLAGPOLE
– MAILBOX
– HANDICAP PARKING STALL
– LANDSCAPE ROCK
– HEDGE, BRUSH, SHRUBS
12" – DECIDUOUS TREE & SIZE
8" – CONIFEROUS TREE & SIZE
– TREE LINE
8"W WATER MAIN & SIZE
18"SS STORM SEWER & SIZE
8"S SANITARY SEWER & SIZE
G NATURAL GAS MAIN
T UNDERGROUND TELEPHONE
E UNDERGROUND POWER
OHE OVERHEAD POWER
CATV CABLE TV/FIBER OPTICS
WOOD FENCE
CHAIN LINK FENCE
X BARBED WIRE FENCE
PROPERTY LINE
CONC. CURB & GUTTER
1400 MAJOR CONTOURS
1401 MINOR CONTOURS

REMOVE

PROTECT

SALVAGE AND RELOCATE

GENERAL NOTES

LEGAL DESCRIPTION

W1/2 SE1/4 SE1/4 19–101–49 & BLOCK 1 TO BLOCK 8 A.L. SMITH'S 1ST ADDITION TO THE CITY OF SIOUX FALLS, MINNEHAHA COUNTY, SOUTH DAKOTA.

MISCELLANEOUS NOTES

1.) SUBJECT PROPERTY IS ZONED COMMERCIAL: S–2
FORM: BCF3
FRONT YARD SETBACK: 20'
SIDE YARD SETBACK: 0'
REAR YARD SETBACK: 0'

2.) THERE MAY BE SUPPLEMENTAL SITE DEVELOPMENT REGULATIONS THAT APPLY TO THE SHOWN BUILDING SETBACK LINES. PLEASE VERIFY WITH CITY OF COUNTY PLANNING.

3.) SUBJECT PROPERTIES FLOOD ZONE PER FEMA FLOOD INSURANCE RATE MAP, MINNEHAHA COUNTY, SOUTH DAKOTA, CITY OF SIOUX FALLS, MAP NUMBER 46099C0442F, EFFECTIVE DATE SEPTEMBER 2, 2009, IS ZONE: X – AREA OF MINIMAL FLOOD HAZARD.

4.) THE UTILITY LOCATION ON THIS PLAT ARE THE RESULT OF A COMBINATION OF FIELD LOCATED POSITIONS AND/OR AS–BUILT DRAWINGS PROVIDED BY THE UTILITY COMPANIES AT OUR REQUEST AND ARE THEREFORE SUBJECT TO INTERPRETATION. THE LOCATIONS ARE APPROXIMATE AND NO GUARANTEE IS MADE OR IMPLIED AS TO THEIR ACCURACY. FURTHER VERIFICATION MAY BE REQUIRED TO IDENTIFY UTILITIES NOT SHOWN HEREIN. CONTACT SOUTH DAKOTA ONE–CALL AT 1–800–781–7474.

5,) BENCHMARK: THE TOP NUT OF THE FIRE HYDRANT LOCATED NORTHWEST OF SITE.
ELEVATION: 1508.03

6.) HORIZONTAL CONTROL IS CITY OF SIOUX FALLS / UTM 14

KEYNOTES

1. PROTECT EXISTING WATER PIV
2. PROTECT EXISTING WATER VALVE.
3. REMOVE EXISTING GRAVEL AREA.
4. PROTECT EXISTING UTILITY STRUCTURES.
5. PROTECT EXISTING UTILITY LINES.
6. PROTECT EXISTING FIRE HYDRANT.

Revision#	Description	Date:

CONSULTANTS

CIVIL:
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
REG. NO. 8695
DAMIAN F. GREBLE
SOUTH DAKOTA
9/15/23

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

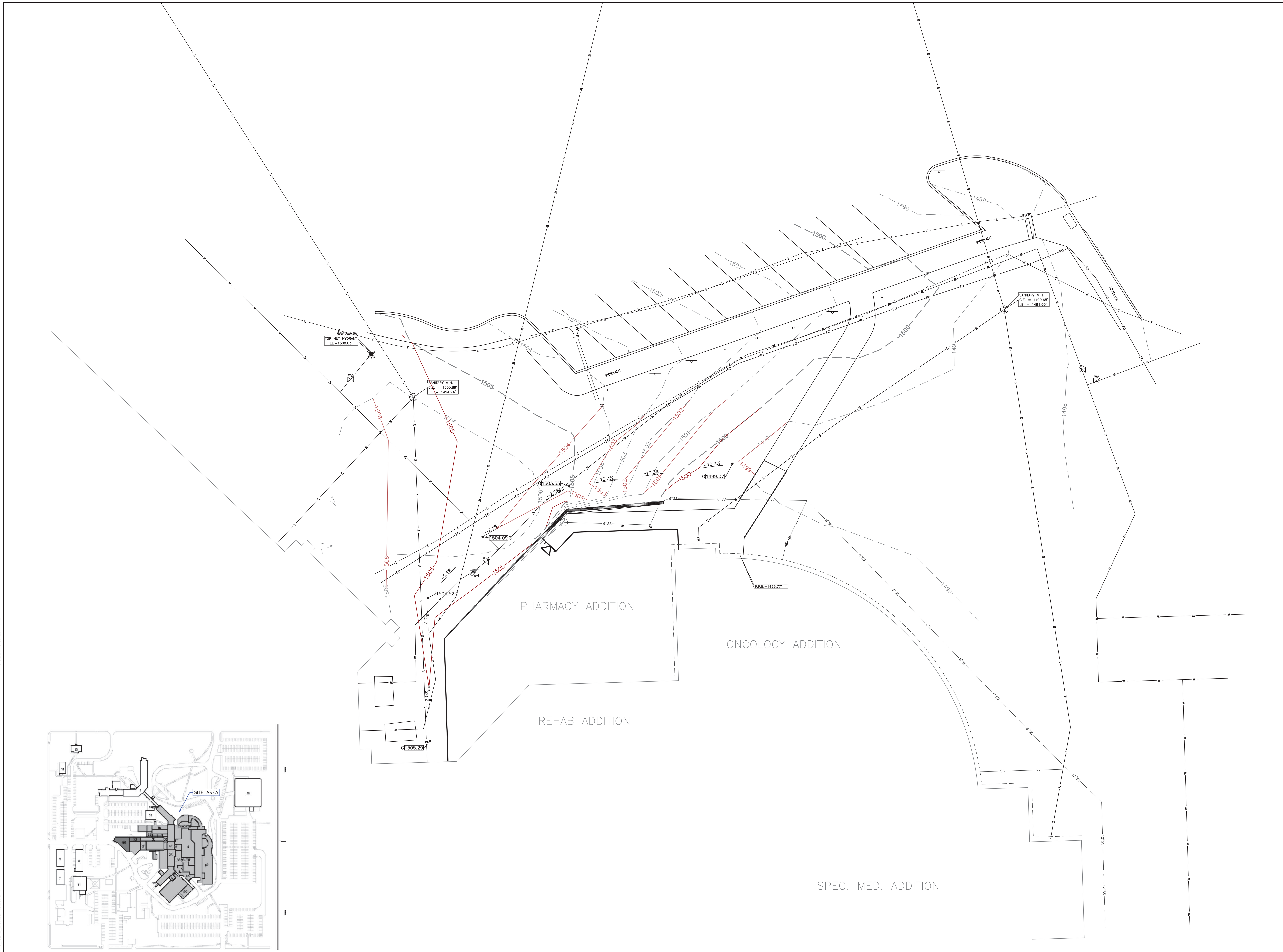
EGA# SD221281

Drawing Title	CIVIL - EXISTING CONDITIONS
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FOR OFFICIAL USE ONLY
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	09-15-2023
Checked	DFG
Drawn	PDB
Project Number	VA #VA #438-22-600 SGA #221926
Building Number	5
Drawing Number	05.CS02

VA FORM 08 - 6231

8/30/2018 9:12:17 AM

C:_SGA Revit Local\181906_VA_PHARM_A18_Opt2_Dorisa Nelson.rvt



NORTH

SCALE 1" = 10'

10 0 10 20 30 FT.

LEGEND

1491	– EXISTING MINOR CONTOUR
1490	– EXISTING MAJOR CONTOUR
1491	– PROPOSED MINOR CONTOUR
1490	– PROPOSED MAJOR CONTOUR
TC 1492.92 P 1492.42	– PROPOSED SPOT ELEVATION
TC	– TOP OF CURB
P	– PAVEMENT
G	– GROUND
SW	– TOP OF SIDEWALK
HP	– HIGH POINT
LP	– LOW POINT
TS	– TOP OF SINGLE STEP OR STAIRFLIGHT
BS	– BOTTOM STAIRFLIGHT
TW or BW	– TOP OF WALL or BOTTOM OF WALL
*	– FIELD VERIFY AND/OR MATCH EXISTING
–2.49%	– PROPOSED GRADE & SLOPE DIRECTION
	– TIP GUTTER OUT
	– ROLLOVER CURB
	– DROP CURB WITHIN ROLLOVER CURB AREA
	– RAISED GUTTER
	– DROPPED CURB (TYP.)
ADA or	– LOCATION OF CURB DROP FOR ADA RAMP WITH PANELS (BY OTHERS)
	– LANDING/CLEAR/TURNING SPACE
	– ADA ACCESSIBLE ROUTE

GENERAL NOTES

1. ADDITIONAL CUT WILL BE TRUCKED OFF SITE TO A SITE AS ARRANGED AND DIRECTED BY CONTRACTOR.

EGA# SD221281

Revision# | Description | Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

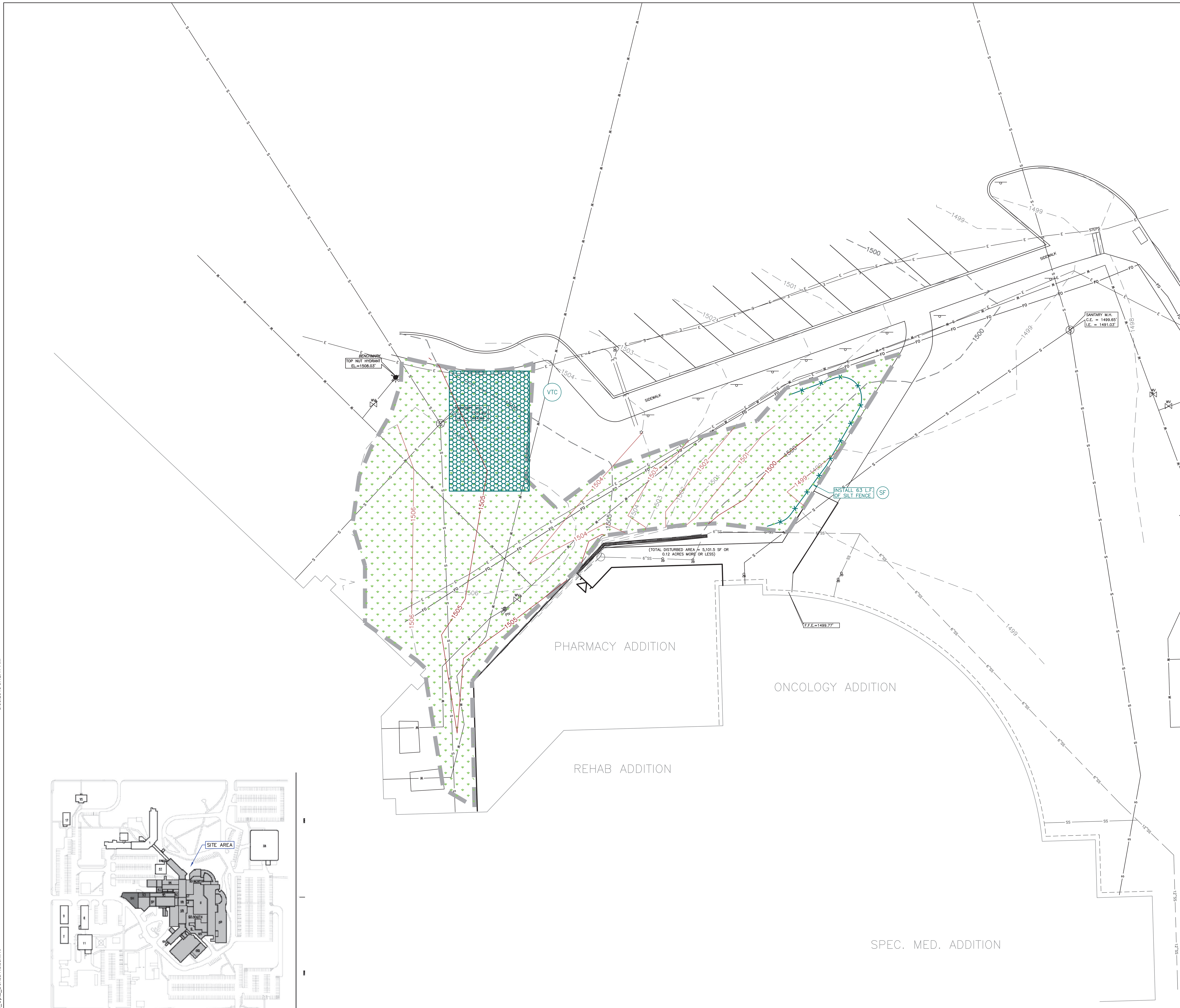
STAMP

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
REG. NO. 8695
DAMIAN F. GREBLE
SOUTH DAKOTA
9/15/23

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Field	Value
Drawing Title	CIVIL - GRADING PLAN
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FOR OFFICIAL USE ONLY
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	09-15-2023
Checked	DFG
Drawn	PDB
Project Number	VA #VA #438-22-600 SGA #221926
Building Number	5
Drawing Number	05.CS03



DISTURBED AREA

THE TOTAL DISTURBED AREA FOR THIS SITE IS 0.12 ACRES.

CONSTRUCTION SCHEDULE

THE CONSTRUCTION SCHEDULE IS AS FOLLOWS (THE TIME ALLOWED FOR EACH SEQUENCE MAY VARY):

- INSTALL TEMPORARY VEHICLE TRACKING CONTROL AND SILT FENCE AS SHOWN ON PLANS. — 1 DAY
- STRIP TOPSOIL AND STOCKPILE ON SITE. EXCESS TOPSOIL TO BE MOVED OFF OF SITE — 1 DAY
- REPLACE TOPSOIL, SEED, AND MULCH ALL AREAS DESIGNATED IN THE LANDSCAPE PLAN — 3–4 DAYS
- MAINTAIN ALL EROSION CONTROLS UNTIL SITE CONSTRUCTION IS COMPLETED AND SITE HAS REACHED FINAL STABILIZATION — 6 MONTHS

NORTH

SCALE 1" = 10'

10 0 10 20 30 FT.

LEGEND

Symbol	Description	Tag
1392	EXISTING MINOR CONTOUR	
1395	EXISTING MAJOR CONTOUR	
1398	PROPOSED MINOR CONTOUR	
1400	PROPOSED MAJOR CONTOUR	
	LIMITS OF GRADING (00.00 ACRES ±)	
	VEHICLE TRACKING CONTROL: (S.F. S.P. 734.02)	VTC
	PROPOSED DIVERSION DIKE: (S.F. S.P. 734.04)	DD
	ROUGH–CUT STREET CONTROL: (S.F. S.P. 734.05)	RCS
	PROPOSED SILT FENCE: (S.F. S.P. 734.09)	SF
	TEMPORARY SEDIMENT TRAP: (S.F. S.P. 734.10)	ST
	INLET PROTECTION: (S.F. S.P. 734.16)	IP
	PROPOSED SILT DITCH: (S.F. S.P. 734.22)	SD
	PROPOSED HORSESHOE FILTER: (S.F. S.P. 734.23)	SB
CWF	CONCRETE WASHOUT FACILITY: (S.F. S.P. 734.28)	
	SEDIMENT CONTROL WATTLE: (S.F. S.P. 734.29)	W
	FILTER STRIP – DO NOT DISTURB: (S.F. S.P. 734.31)	FS
	ROCK CHECK DAM (S.F. S.P. 734.15)	CD
	ROLLED EROSION CONTROL PRODUCT	
	TURF REINFORCEMENT MAT	
	RIP RAP / OUTLET PROTECTION	OP
	SOD	
	LANDSCAPE ROCK	

GENERAL NOTES

1.) NO CONCRETE TO BE DUMPED ON VA GROUNDS DUE TO WASHING OUT OF CONTAINERS

2.) CONTRACTOR VEHICLES TO NOT TRACK MUD AND DEBRIS ONTO THE ROAD SURFACE OF THE VA OR CITY OF SIOUX FALLS. CONTRACTORS SHALL INSTALL RIP/RAP TO REMOVE DEBRIS FROM VEHICLES AS APPLICABLE, AND MAINTAIN RIP/RAP

3.) ANY DEBRIS SHALL BE COLLECTED AND STORED IN PROPER CONTAINERS AND REMOVED WITHOUT DISTURBING VA GROUNDS AESTHETICS.

MINOR ERSC NOTES

1. INSTALL VEHICLE TRACKING CONTROL (VTC) AT EVERY CONSTRUCTION ENTRANCE. ONE (1) VTC SHOWN.
2. INSTALL SILT FENCE (CONTRACTOR OPTION) AT THE STOCKPILE LOCATION(S). EXACT LOCATION AS DETERMINED BY OWNER OR PROJECT MANAGER.
3. MAINTENANCE OF EROSION CONTROL DEVICES PER DETAILED NOTES AND AS REQUIRED BY INSPECTION OF FACILITIES SHALL BE PERFORMED BY PRIME CONTRACTOR.
4. AT ALL TIMES DURING GRADING OPERATIONS PROVIDE POSITIVE DRAINAGE TO EROSION CONTROL DEVICES, AND EXISTING DITCHES.
5. THE EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AND BE MAINTAINED/REPAIRED AS NEEDED UNTIL WORK IS COMPLETED AND SITE IS STABILIZED PER THE SWPPP.
6. ALL PAVED STREETS ADJACENT TO THE SITE SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
7. AFTER CONSTRUCTION BEGINS, SOIL SURFACE STABILIZATION SHALL BE APPLIED WITHIN 14 DAYS TO ALL DISTURBED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR PERIODS LONGER THAN AN ADDITIONAL 21 CALENDAR DAYS. WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, PERMANENT OR TEMPORARY SOIL SURFACE STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS AND SOIL STOCKPILES.
8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS AND ENGINEERING DESIGN STANDARDS OF THE CITY OF SIOUX FALLS.
9. PROJECT INSPECTION PRIORITY: LOW
10. AT NO TIME SHALL ANY WATERS FROM THIS PROJECT ENTER THE STORM SEWER OR LEAVE THE PROJECT LIMITS WITHOUT EXPOSURE TO A SEDIMENT FILTRATION DEVICE. ALL DROP INLETS, MANHOLES AND JUNCTION BOXES (EXISTING OR NEW) SHALL HAVE SEDIMENT CONTROL DEVICES PLACED AROUND THEIR PERIMETER DURING ALL STAGES OF CONSTRUCTION EXCEPT DURING THE PLACEMENT OF FINAL SURFACING. THIS MAY NECESSITATE MULTIPLE INSTALLATIONS OF THE SEDIMENT CONTROL DEVICES AT THE SAME LOCATION.
11. AFTER SITE IS STABILIZED CONTRACTOR SHALL REMOVE SILT FENCE AND REMOVE VEHICLE TRACKING CONTROL. SOD ALL DISTURBED AREAS.

Revision#	Description	Date:

CONSULTANTS

CIVIL: EHRHART GRIFFIN & ASSOCIATES — Ehrhart Griffin & Associates, 601 N Minnesota Ave, Sioux Falls, SD 57104, Phone: 605-339-7215

STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES — Ericksen Roed Associates, 2550 University Ave W, Suite 423-S, St. Paul, MN 55402, Phone: 651-251-7570

MEP: DUNHAM — Dunham Asssociates, Inc., 50 South Sixth St, Suite 1100, Minneapolis, MN 55402, Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS — Stone Group Architects, Inc., 600 East 7th Street, Sioux Falls, SD 57103, Phone: 605-271-1144

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CIVIL - EROSION CONTROL PLAN

Approved:

Phase: CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location: SIOUX FALLS, SOUTH DAKOTA

Issue Date: 09-15-2023 | Checked: DFG | Drawn: PDB

EGA# SD221281

Project Number: VA #VA #438-22-600 SGA #221926

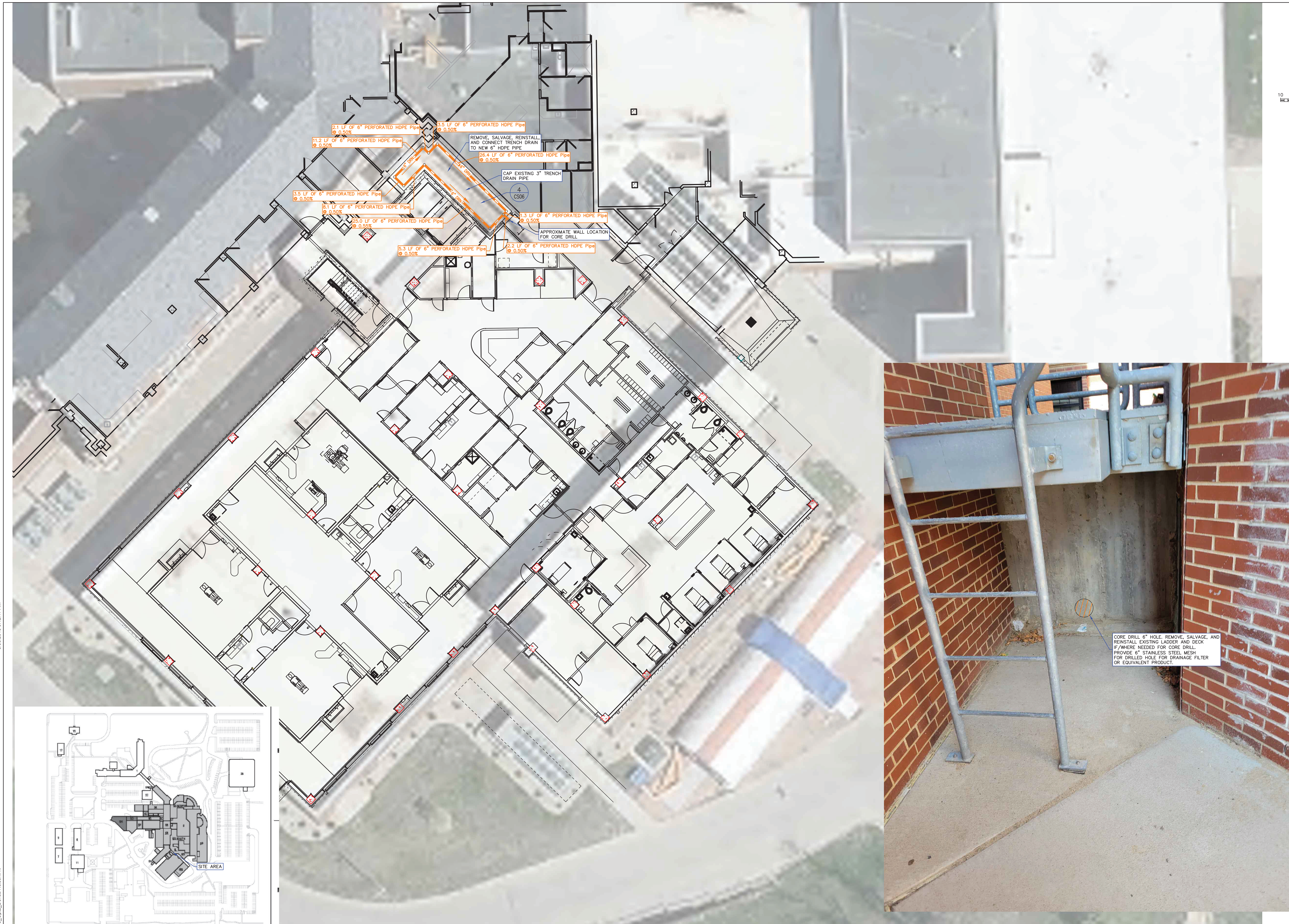
Building Number: 5

Drawing Number: 05.CS04

VA FORM 08 - 6231

C:_SGA Revit Local\181906_VA_PHARM_A18_Opt2_Dorisa Nelson.rvt

8/30/2018 9:12:17 AM



NORTH

SCALE 1" = 10'

10 0 10 20 30 FT.

EGA# SD221281

Revision#	Description	Date:
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR REG. NO. 8695 DAMIAN F. GREBLE SOUTH DAKOTA 9/15/23

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	CIVIL - DRAINAGE PLAN
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FOR OFFICIAL USE ONLY
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	09-15-2023
Checked	DFG
Drawn	PDB
Project Number	VA #VA #438-22-600 SGA #221926
Building Number	5
Drawing Number	05.CS05

VA FORM 08 - 6231

C:_SGA Revit Local\181906_VA_PHARM_A18_Opt2_Dorisa Nelson.rvt

8/30/2018 9:12:17 AM

Vehicle Tracking Control

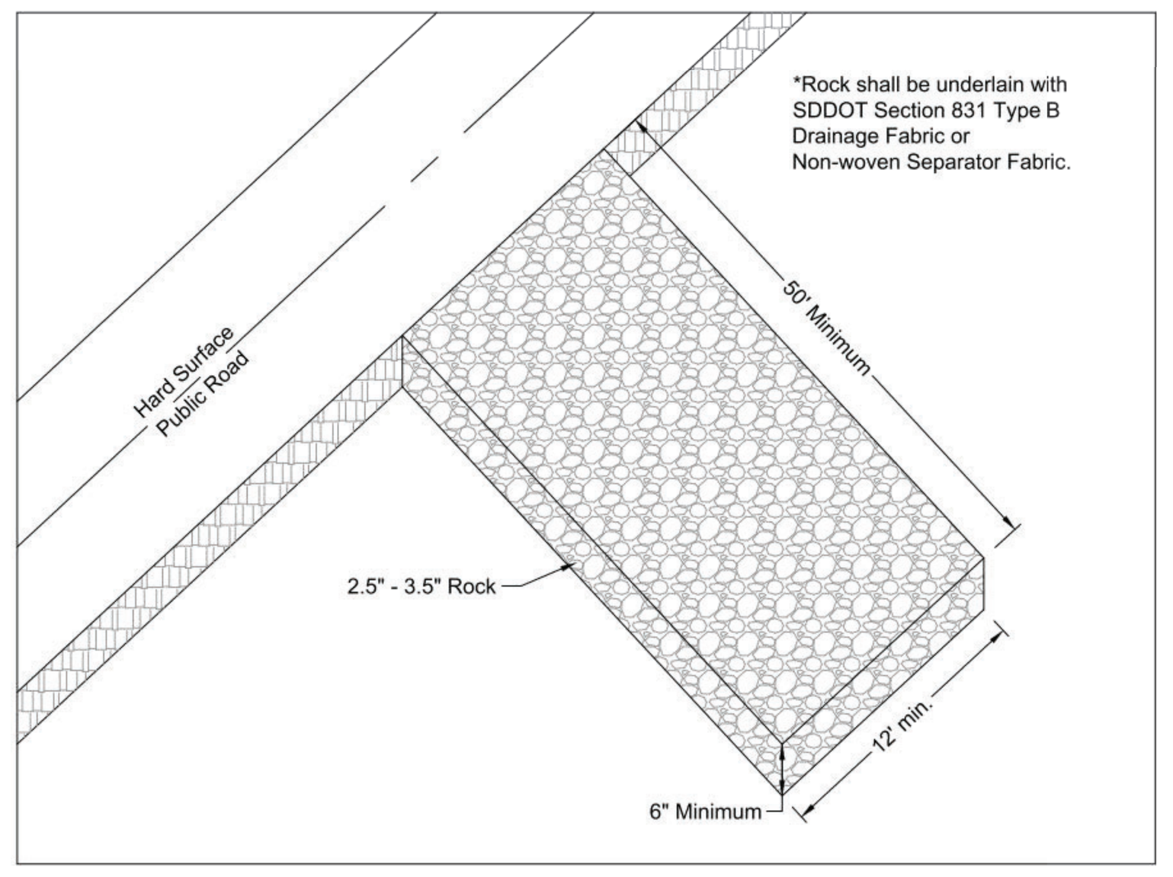
VTC

Definition:

A stone stabilized pad located at points of vehicular ingress and egress on a construction site.

Purposes:

To reduce the amount of mud transported onto public roads by motor vehicles or runoff.



Revised: May 2019

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	**Temporary Vehicle Tracking Control**	Specification Reference No. 734	Plate Number 734.02

Silt Fence

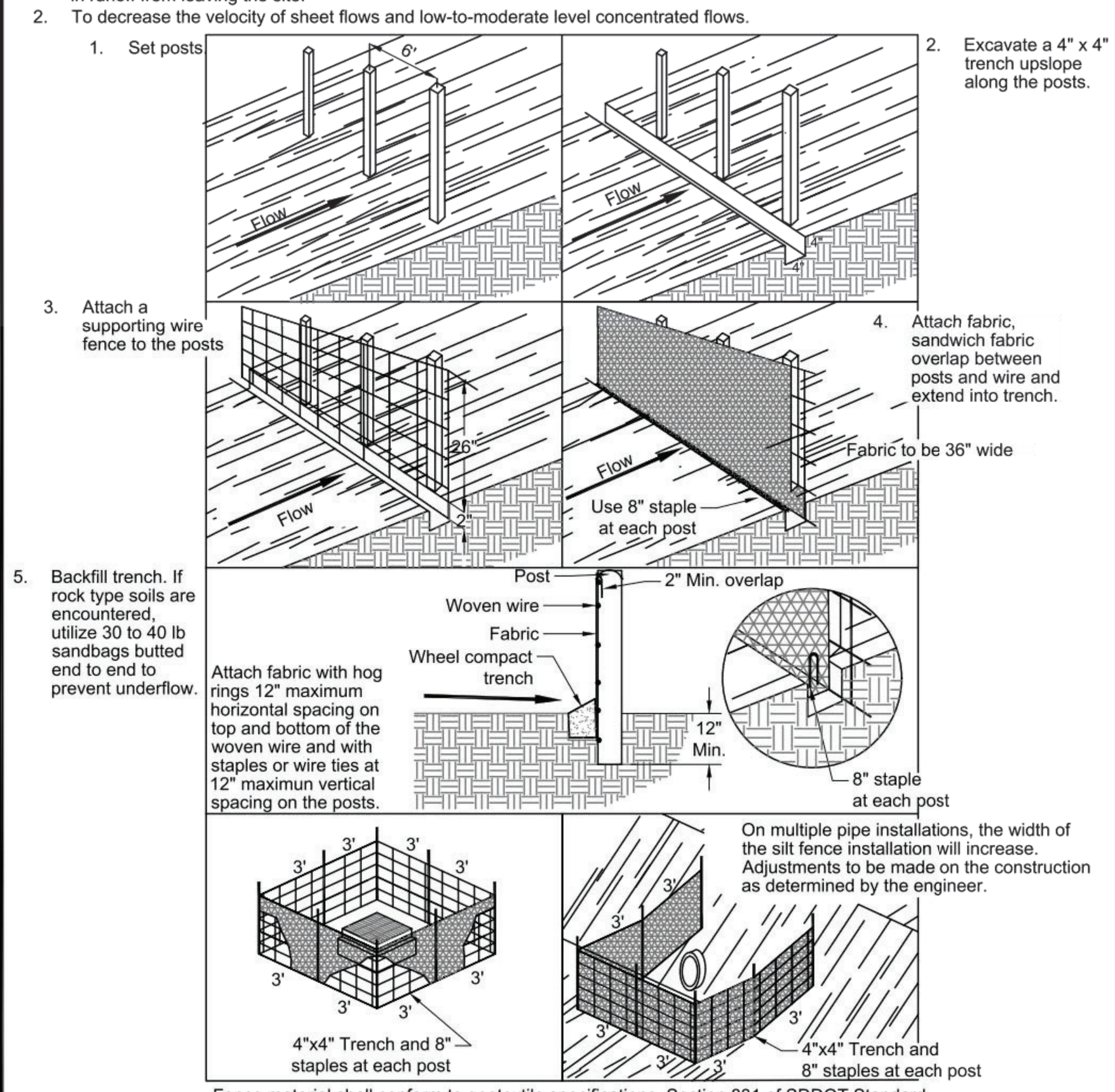
SF

Definition:

A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched. The silt fence is a temporary linear barrier constructed of synthetic filter fabric and supported by wooden or steel posts.

Purposes:

1. To intercept and detain small amounts of sediment from disturbed areas during construction operations in order to reduce sediment in runoff from leaving the site.
2. To decrease the velocity of sheet flows and low-to-moderate level concentrated flows.



Fence material shall conform to geotextile specifications, Section 831 of SDDOT Standard Specifications for Roads and Bridges, latest edition.

Revised: October 2005

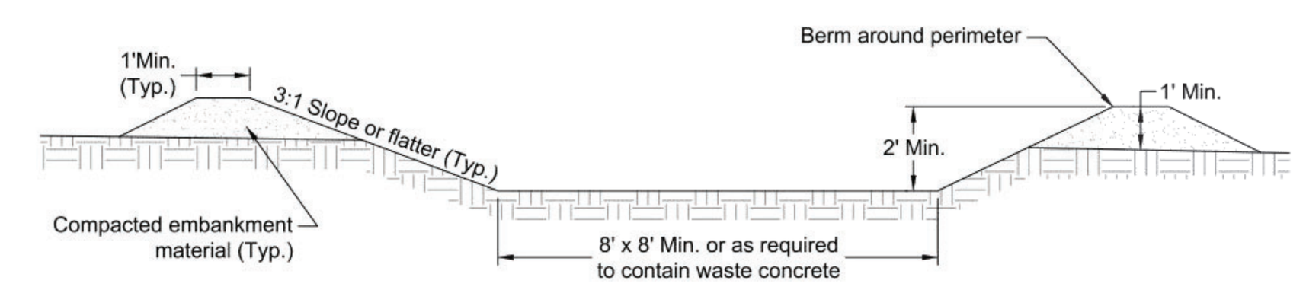
CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	**Silt Fence (Woven Wire)**	Specification Reference No. 734	Plate Number 734.09

Concrete Washout Facility

CWF

Notes:

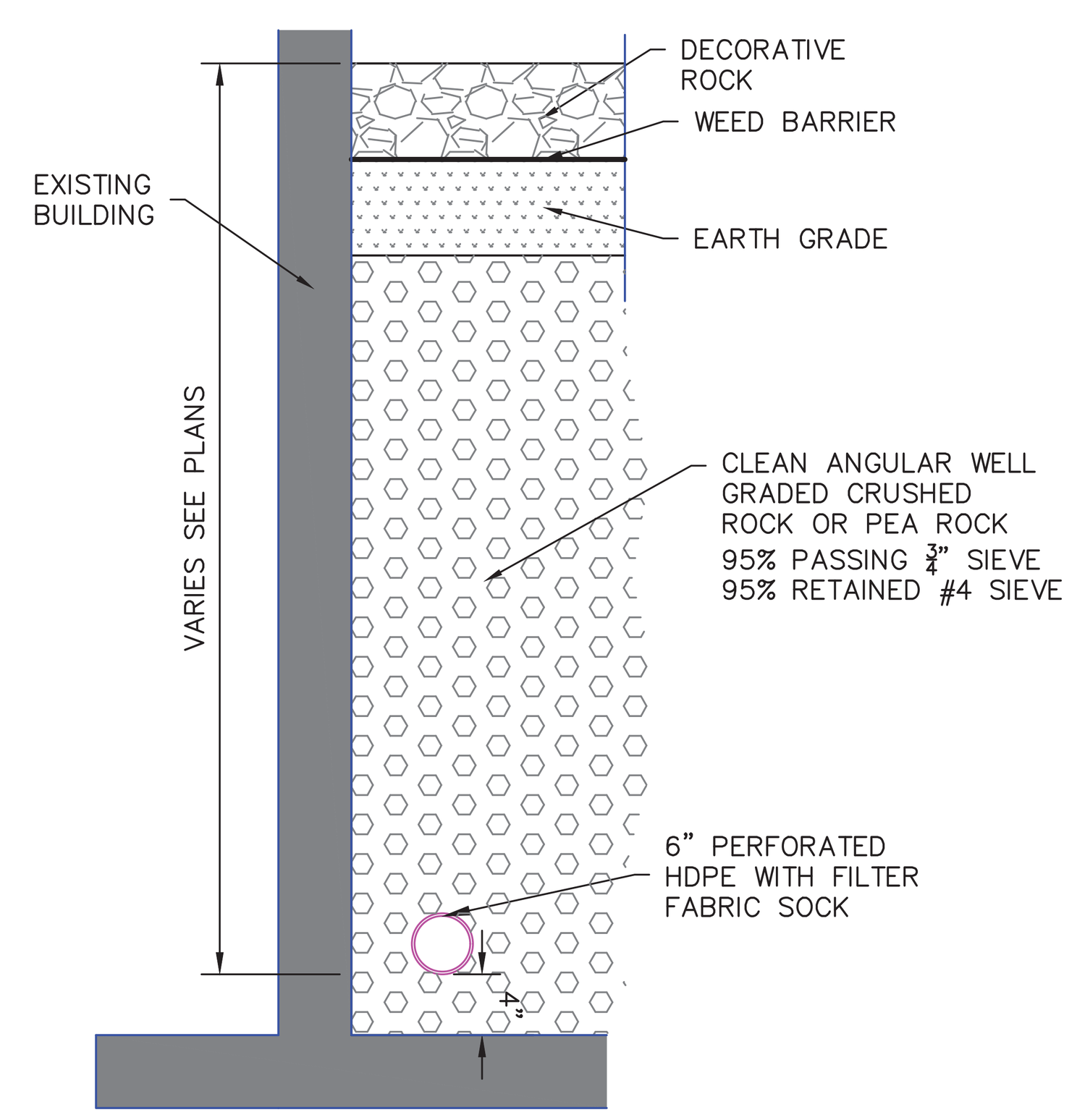
1. Concrete washout facility shall be installed prior to any concrete placement on site.
2. A sign shall be installed adjacent to each washout facility to inform concrete equipment operators to utilize the CWF.
3. The concrete washout facility shall be repaired and enlarged or cleaned out as necessary to maintain capacity for wasted concrete.
4. When CWF are no longer required for the work, the hardened concrete and materials used to construct the CWF shall be removed and disposed of.
5. When the concrete washout facility is removed, the holes, depressions or other ground disturbance shall be backfilled, repaired and stabilized.



Cross Sectional View

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You!	**Concrete Washout Facility**	Specification Reference No. 734	Plate Number 734.28



STANDARD SECTION
NO SCALE

4 / 05.C06 SUBDRAIN DETAILS
NO SCALE

Revision#	Description	Date:
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.

CONSULTANTS

CIVIL: EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP: DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
REG. NO. 8695
DAMIAN F. GREBLE
SOUTH DAKOTA
9/15/23

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

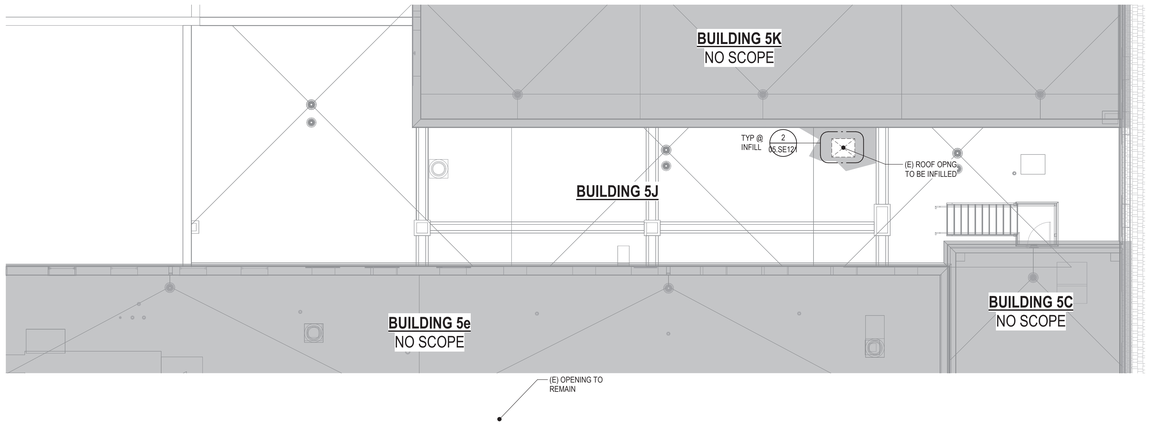
EGA# SD221281

Drawing Title	Phase	Project Title	Project Number
CIVIL - DETAILS	CONSTRUCTION DOCUMENTS	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	VA #VA #438-22-600 SGA #221926
Approved:	FOR OFFICIAL USE ONLY	Location: SIOUX FALLS, SOUTH DAKOTA	Building Number: 5
		Issue Date: 09-15-2023; Checked: DFG; Drawn: PDB	Drawing Number: 05.CS06

VA FORM 08 - 6231

C:_SGA Revit Local\181906_VA_PHARM_A18_Opt2_Dorisa Nelson.rvt

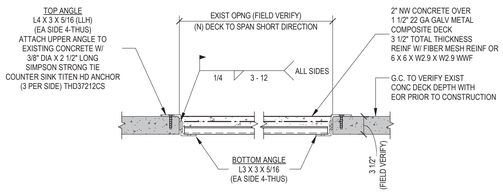
8/30/2018 9:12:17 AM



1 05.SE121 ROOF PLAN - 5J
1/8" = 1'-0"

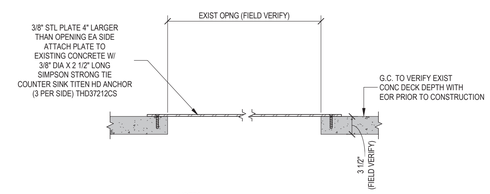
NORTH

INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



NOTES:
1. NOTIFY EOR IF OPENING LARGER THAN 4'-0" IN ANY ONE DIRECTION.
2. SEE ARCH FOR ROOFING REQUIREMENTS.

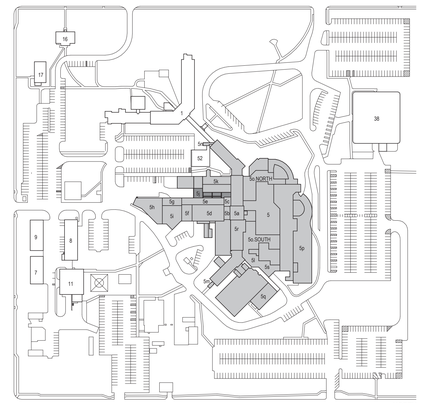
BUILDING 5 ROOF OPENING - OPTION A CONCRETE OVER METAL DECK INFILL IN EXISTING CONCRETE DECK



NOTES:
1. NOTIFY EOR IF OPENING LARGER THAN 4'-0" IN ANY ONE DIRECTION.
2. SEE ARCH FOR ROOFING REQUIREMENTS.

BUILDING 5 ROOF OPENING - OPTION B METAL PLATE INFILL OVER EXISTING CONCRETE DECK

2 05.SE121 SECTION/ DETAIL
1" = 1'-0"



KEY PLAN
1" = 200'-0"

NORTH

Revision #	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
www.eraeng.com

MEP:
DUNHAM
Dunham Assosciates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
LICENSED PROFESSIONAL ENGINEER REG. NO 16099 STEPHEN CLARK NORTH DAKOTA
9/15/2023

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
STRUCTURAL - ROOF PLAN - 5J

Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

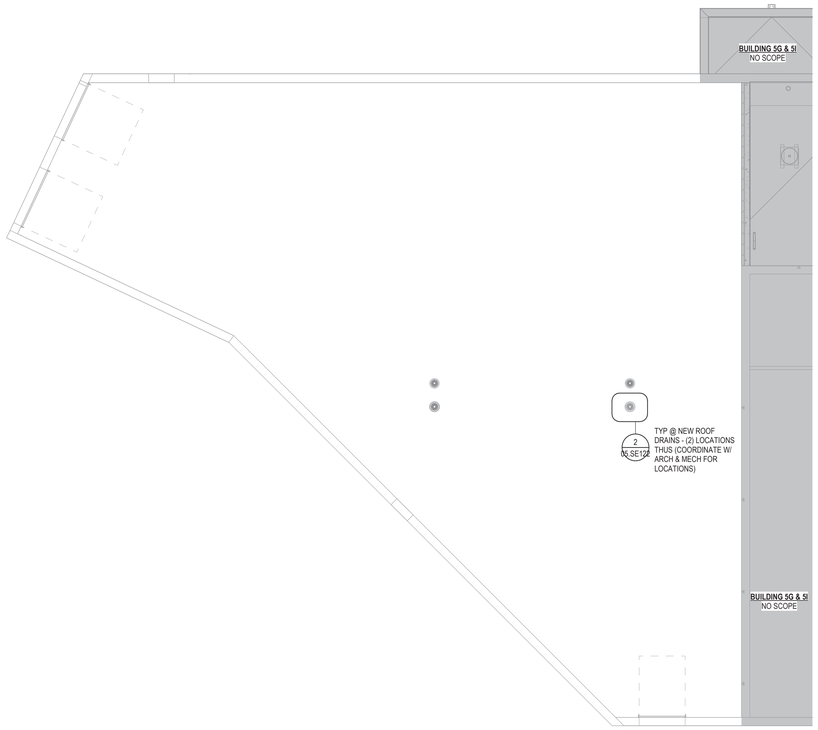
Location
SIOUX FALLS, SOUTH DAKOTA

Issue Date 09-15-2023
Checked TDN
Drawn CS/MJD

Project Number VA #438-22-600 ERA #20221954
Building Number 05
Drawing Number 05.SE121

VA FORM 08 - 6231

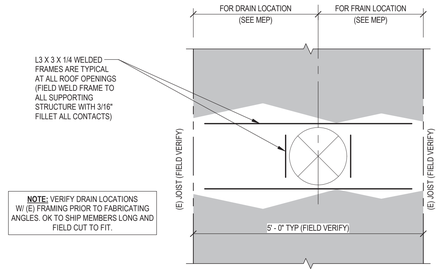
C:\Users\mbdom\Documents\20221954_S20_VAExteriorBuildings5_mbdomREFA.rvt
9/12/2023 9:30:00 AM



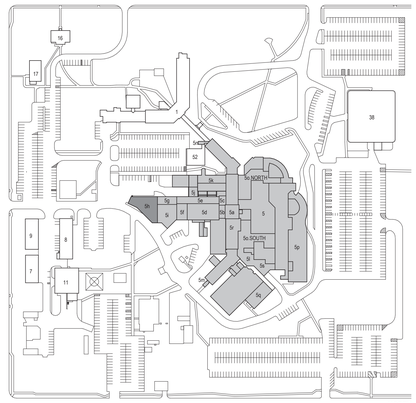
1 05.SE122 ROOF PLAN - 5H
1/8" = 1'-0"

NORTH

INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



2 05.SE122 SECTION/ DETAIL
3/4" = 1'-0"



KEY PLAN
1" = 200'-0"

NORTH

Revision #	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
www.eraeng.com

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

LICENSED PROFESSIONAL ENGINEER
REG. NO. 16099
STEPHEN CLARK
SOUTH DAKOTA
9/15/2023

Office of Construction and Facilities Management

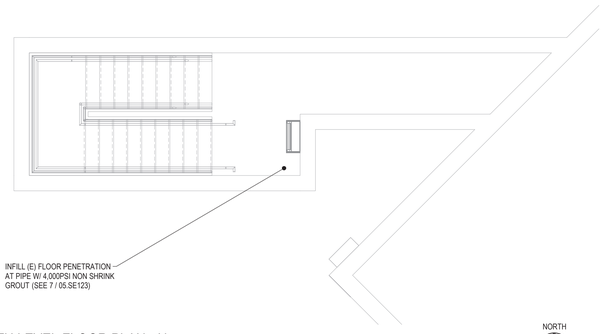
VA U.S. Department of Veterans Affairs

Drawing Title STRUCTURAL - ROOF PLAN - H	**Phase** CONSTRUCTION DOCUMENTS	**Project Title** SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	**Project Number** VA #438-22-600 ERA #20221954
Approved:	FOR OFFICIAL USE ONLY	**Location** SIOUX FALLS, SOUTH DAKOTA	**Building Number** 05
		Issue Date 09-15-2023 / **Checked** TDN / **Drawn** CS/MJD	**Drawing Number** 05.SE122

C:\Users\mdorn\Documents\20221954_S20_VAExteriorBuilding5_mdornERA.rvt
9/12/2023 9:30:03 AM

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

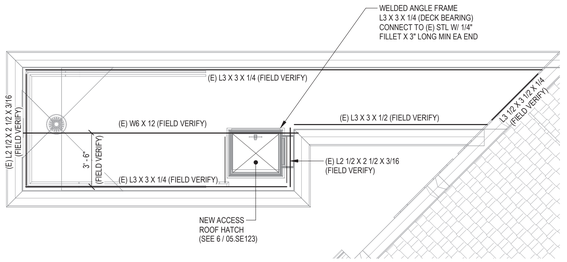
VA FORM 08 - 6231



1 05.SE123 4TH LEVEL FLOOR PLAN - N
1/4" = 1'-0"

NORTH

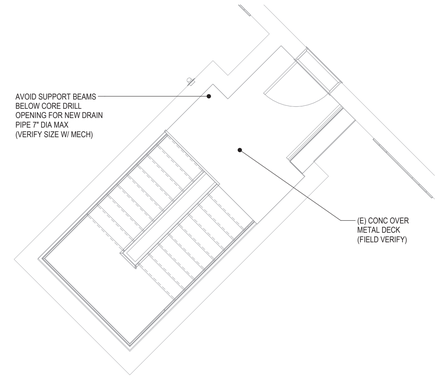
INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



2 05.SE123 ROOF PLAN - N
1/4" = 1'-0"

NORTH

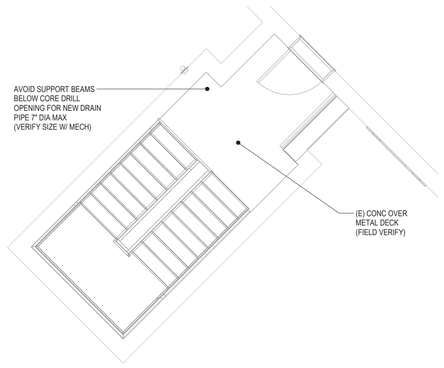
INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



3 05.SE123 3RD LEVEL FLOOR PLAN - M
1/4" = 1'-0"

NORTH

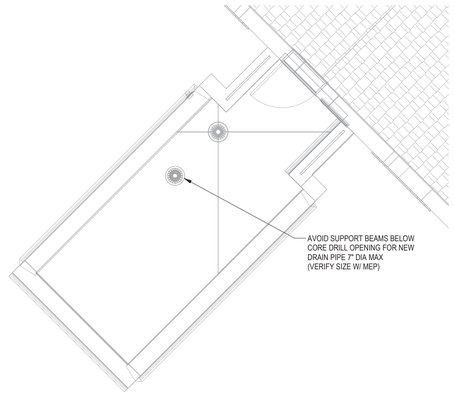
INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



4 05.SE123 4TH LEVEL FLOOR PLAN - M
1/4" = 1'-0"

NORTH

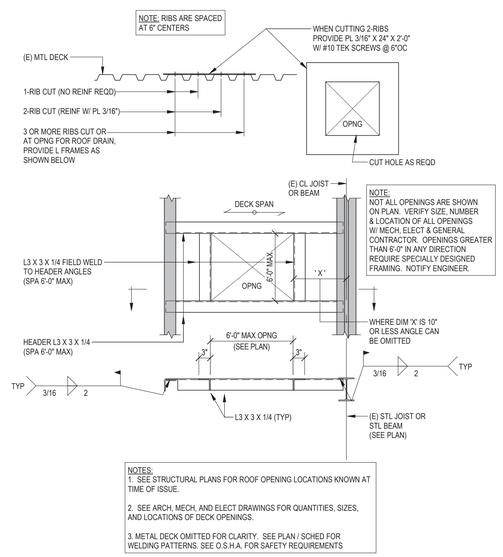
INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



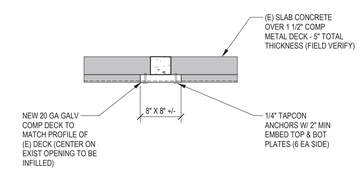
5 05.SE123 ROOF PLAN - M
1/4" = 1'-0"

NORTH

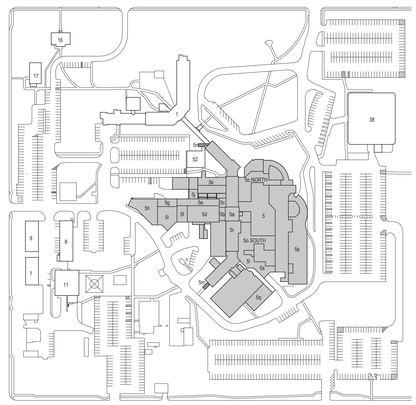
INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



6 05.SE123 ROOF FRAME FOR OPNG IN (E) MTL ROOF DECK
NO SCALE



7 05.SE123 SECTION/ DETAIL
1" = 1'-0"



KEY PLAN
1" = 200'-0"

NORTH

Revision #	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
www.eraeng.com

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
LICENSED PROFESSIONAL ENGINEER
REG. NO.
16099
STEPHEN
CLARK
NORTH DAKOTA
9/15/2023

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
STRUCTURAL - ROOF PLAN - M, N

Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIOUX FALLS, SOUTH DAKOTA

Issue Date 09-15-2023 | **Checked** TDN | **Drawn** CS/MJD

Project Number VA #438-22-600 ERA #20221954

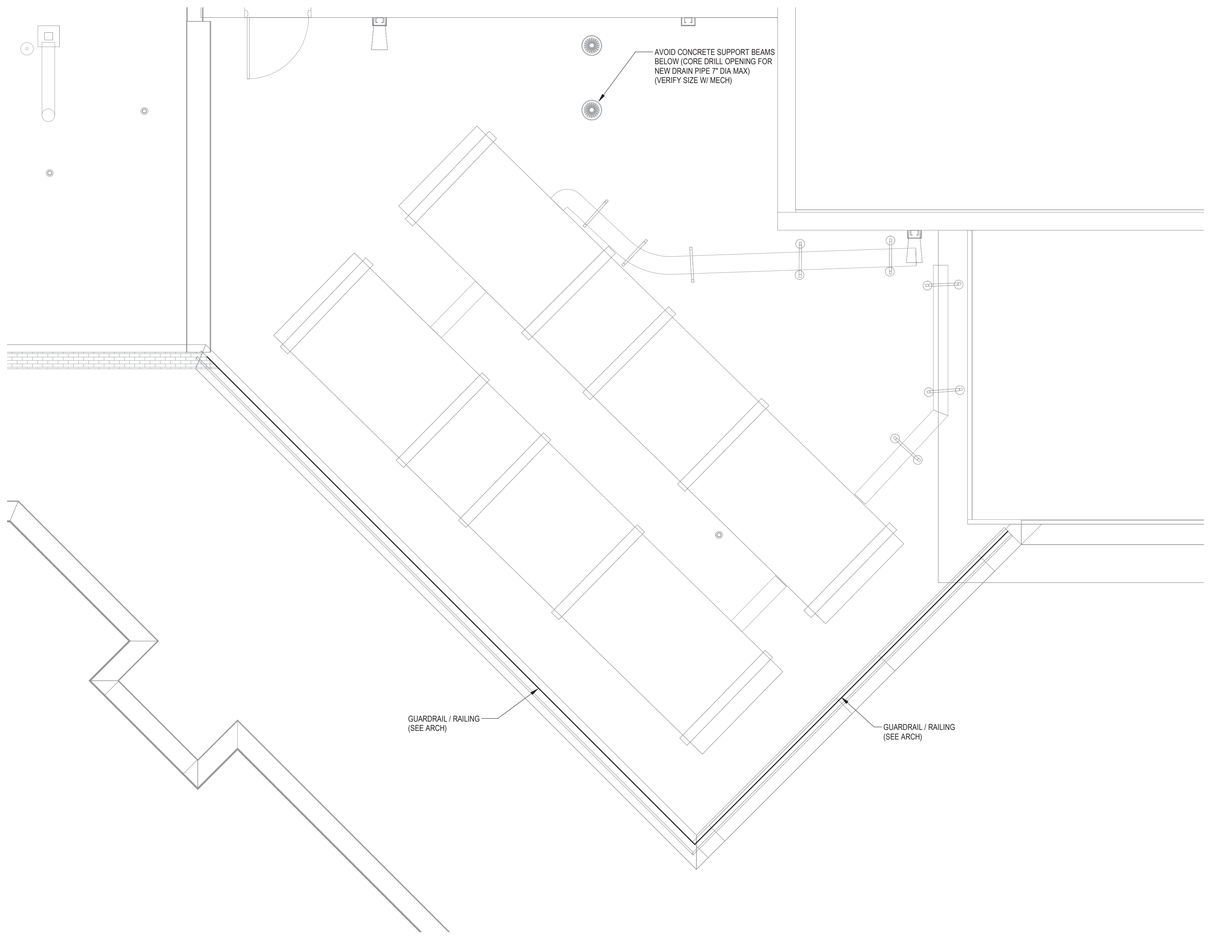
Building Number 05

Drawing Number 05.SE123

C:\Users\mdom\Documents\20221954_S20_VAExteriorsBuildings5_mdom.rtERA.rvt

9/12/2023 9:30:08 AM

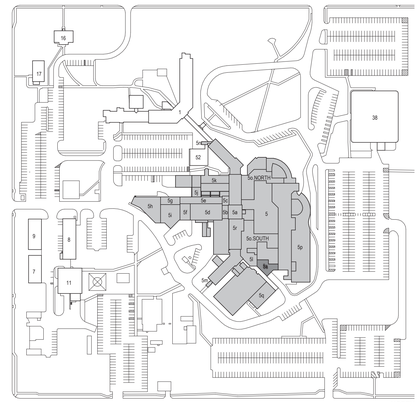
VA FORM 08 - 6231



1 ROOF PLAN - S
05.SE124 1/4" = 1'-0"

NORTH

INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



KEY PLAN
1" = 200'-0"

Revision #	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
www.eraeng.com

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 16099
STEPHEN CLARK
NORTH DAKOTA
9/15/2023

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
STRUCTURAL - ROOF PLAN - S

Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIOUX FALLS, SOUTH DAKOTA

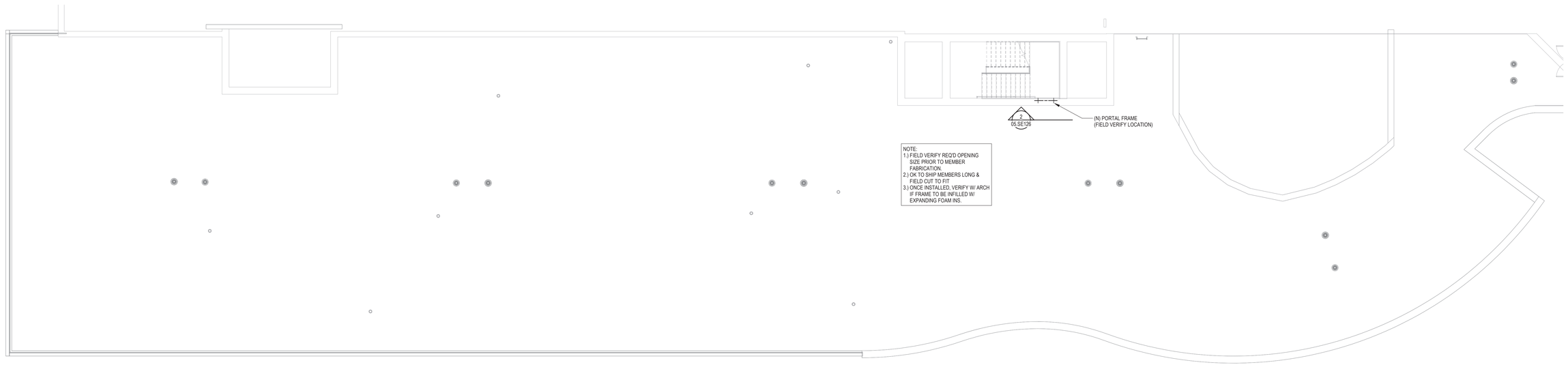
Issue Date 09-15-2023
Checked TDN
Drawn CS/MJD

Project Number VA #438-22-600 ERA #20221954
Building Number 05
Drawing Number 05.SE124

VA FORM 08 - 6231

C:\Users\mdorn\Documents\20221954_S20_VAExteriorsBuilding5_mdornERA.rvt
9/12/2023 9:30:11 AM

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

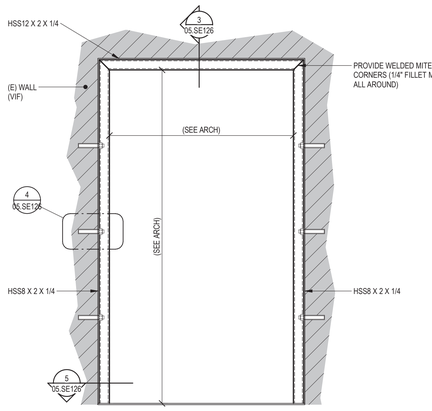


1 05.SE126 ROOF PLAN - P UPPER

1/8" = 1'-0"

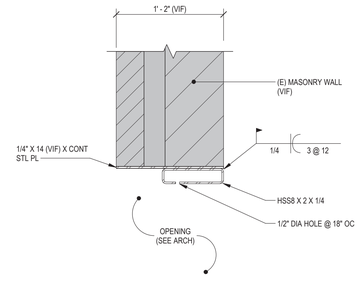
NORTH

INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



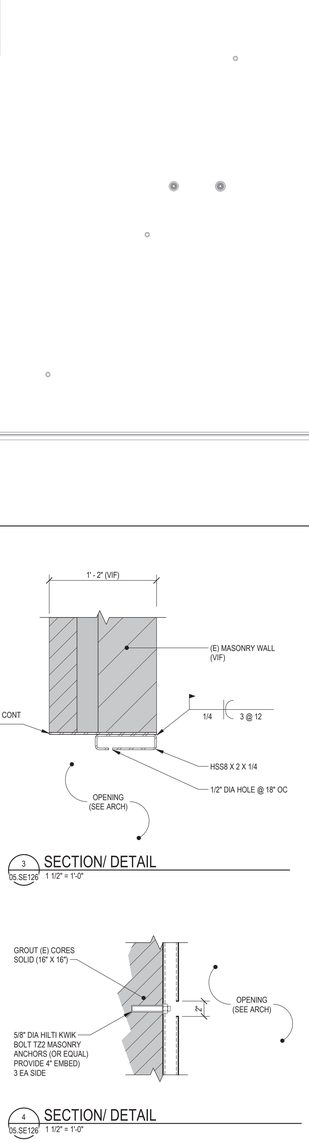
2 05.SE126 SECTION/ DETAIL

1" = 1'-0"



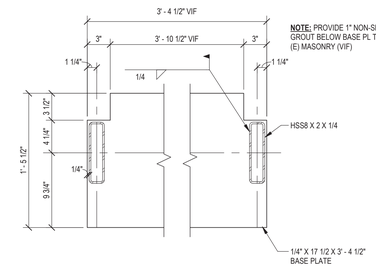
3 05.SE126 SECTION/ DETAIL

1 1/2" = 1'-0"



4 05.SE126 SECTION/ DETAIL

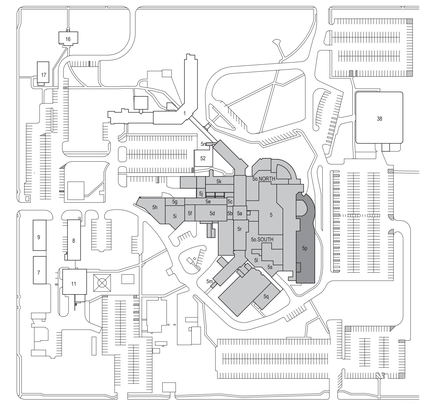
1 1/2" = 1'-0"



NOTE: PROVIDE 1" NON-SHRINK GROUT BELOW BASE PL TO TOP (E) MASONRY (VIF)

5 05.SE126 SECTION/ DETAIL

1 1/2" = 1'-0"



KEY PLAN

1" = 200'-0"

NORTH

Revision #	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
www.eraeng.com

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
LICENSED PROFESSIONAL ENGINEER REG. NO 16099 STEPHEN CLARK NORTH DAKOTA
9/15/2023

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

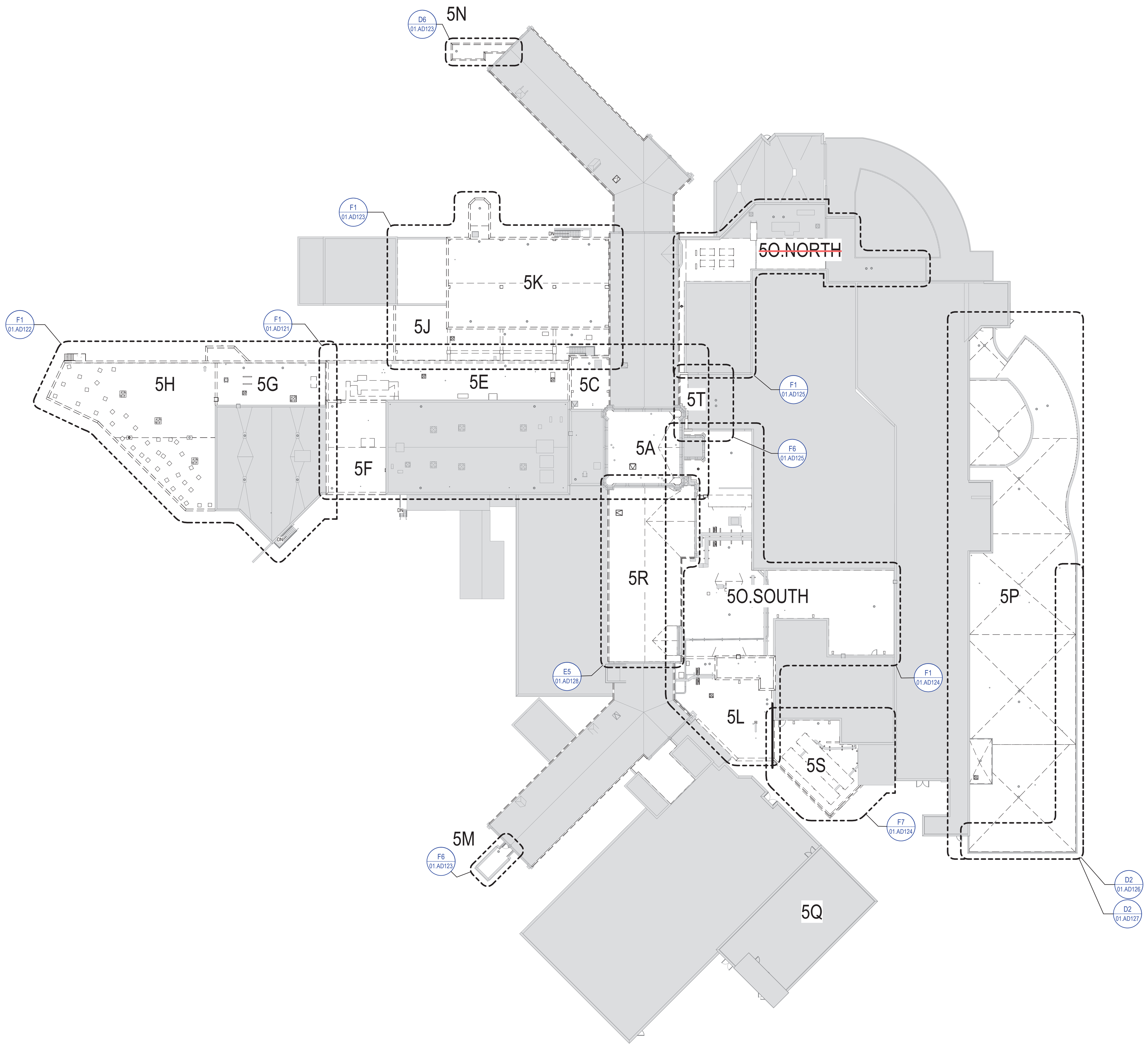
Drawing Title	STRUCTURAL - ROOF PLAN P.UPPER
Phase	CONSTRUCTION DOCUMENTS
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Project Number	VA #438-22-600 ERA #20221954
Building Number	05
Approved:	
Location	SIOUX FALLS, SOUTH DAKOTA
Drawing Number	05.SE126
Issue Date	09-15-2023
Checked	TDN
Drawn	CS/MJD

FOR OFFICIAL USE ONLY

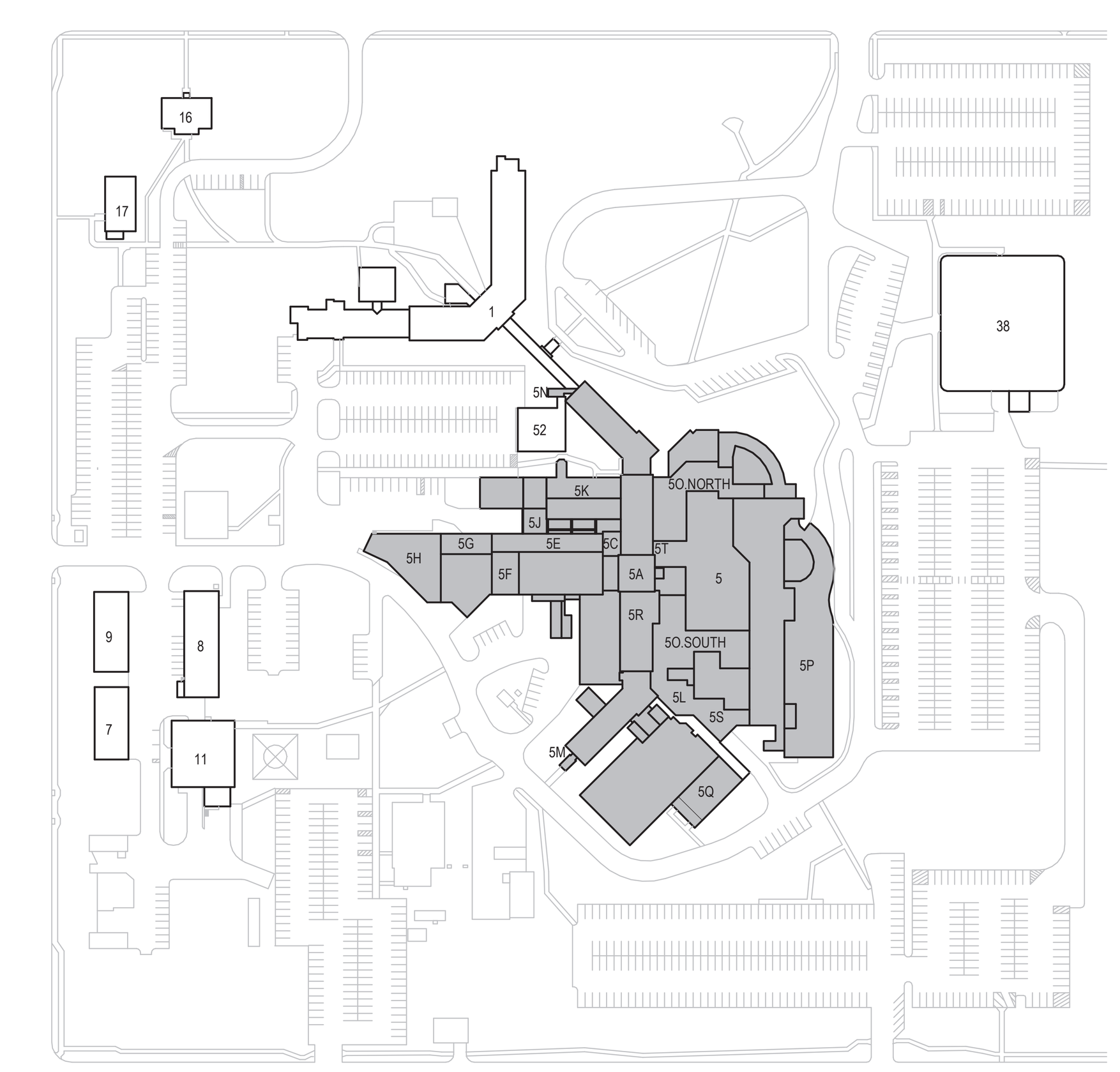
C:\Users\mdom\Documents\20221954_SGN_VAExteriorsBuildings5_mdomtERA.rvt

9/12/2023 9:30:19 AM

VA FORM 08 - 6231



F1 ROOF PLAN - DEMOLITION - OVERALL
1/32" = 1'-0"
NORTH



CAMPUS BUILDING KEY PLAN
NORTH

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT
9-15-23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - ROOF PLAN - DEMOLITION - OVERALL
Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIOUX FALLS, SOUTH DAKOTA

Issue Date	Checked	Drawn
09-15-2023	BH	MA

Project Number
VA #438-22-600
SGA #221926

Building Number
05

Drawing Number
05. AD120

VA FORM 08 - 6231

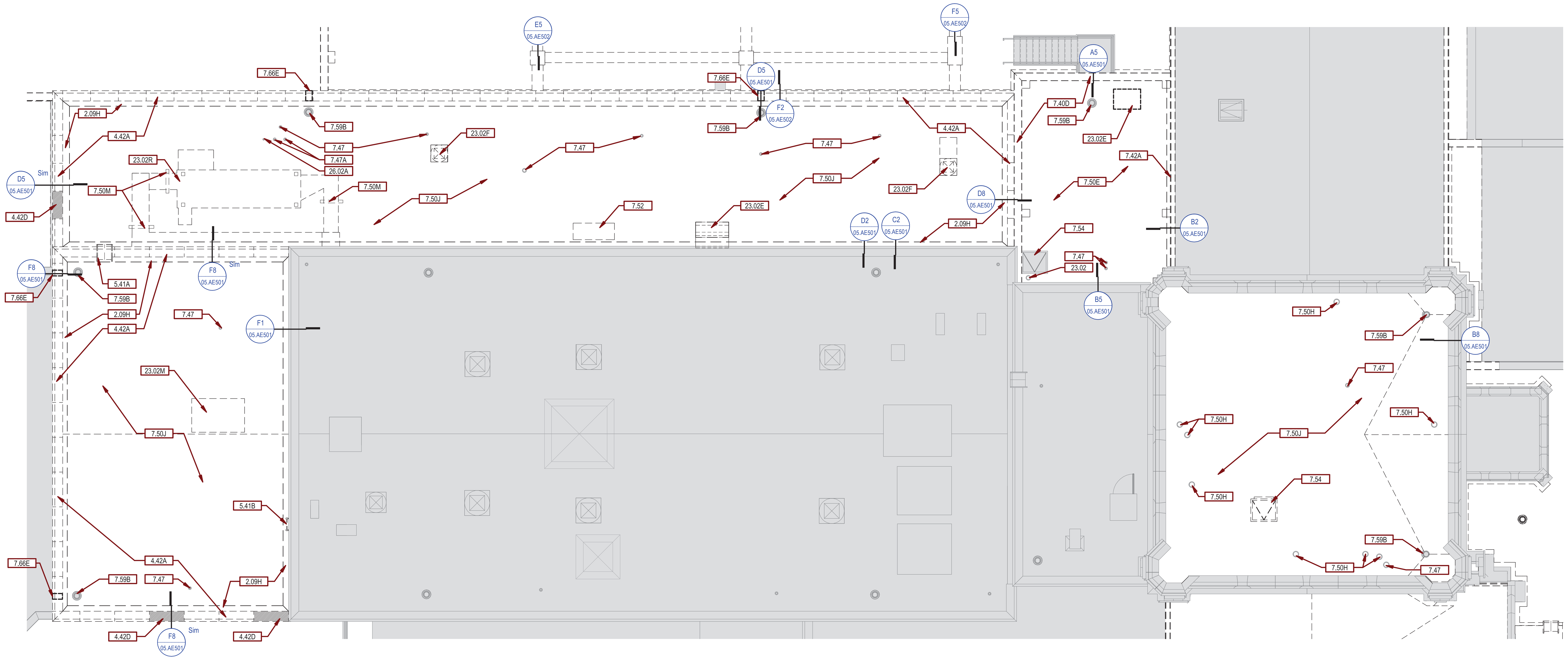
9/14/2023 11:22:24 AM
C:_SGA Revit Local\BUILDING 05_MichaelMb.rvt

GENERAL DEMOLITION PLAN NOTES:

A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

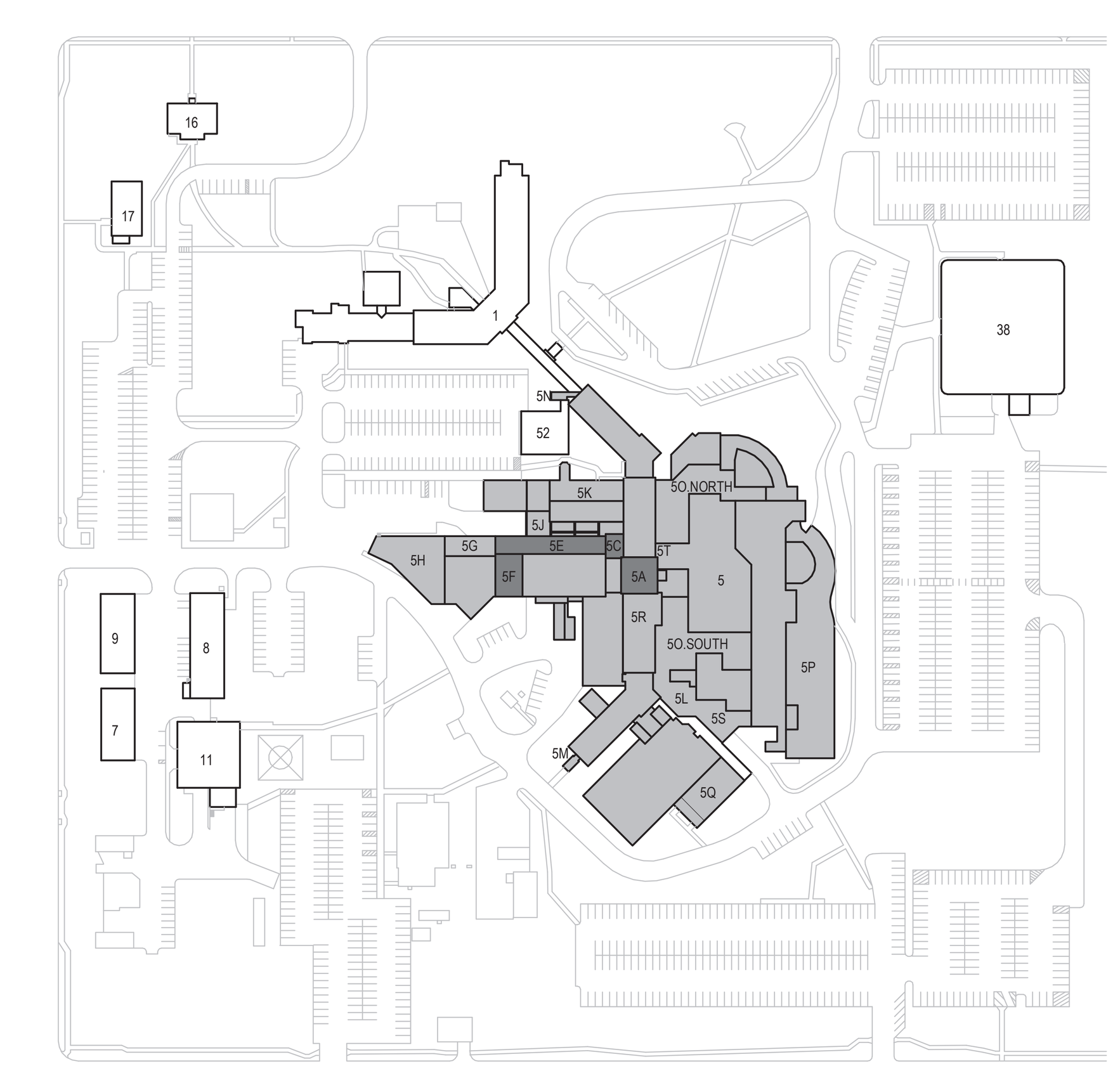
KEYNOTES_SGA

Key Value	Keynote Text
2.09H	REMOVE CINDER CONC CANT.
4.42A	REMOVE EXISTING LIMESTONE PARAPET CAPS AND FLASHING. SALVAGE CAPSTONES FOR REINSTALLATION. (TYP U.N.0.)
4.42D	REMOVE DAMAGED LIMESTONE PARAPET CAP AND FLASHING.
5.41A	REMOVE AND REINSTALL EXISTING ACCESS LADDER AS REQD FOR ROOFING WORK.
5.41B	REMOVE LADDER.
7.40D	REMOVE EXISTING MTL COPING AND KEEPER STRIP
7.42A	REMOVE EXISTING FLASHING
7.47	EXISTING VTR TO REMAIN.
7.47A	EXISTING VTR. PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.
7.50E	REMOVE BALLASTED MEMB ROOFING, MEMB FLASHING, AND RIGID INSUL DN TO DECK.
7.50H	REMOVE POURABLE SEALER POCKET. CONDUIT/PIPING TO REMAIN - REF MEP.
7.50J	REMOVE EXISTING ADHERED MEMB ROOFING AND RIGID INSUL DN TO EXISTING CONC DECK
7.50M	EXISTING CURB TO REMAIN - REMOVE ROOFING MEMB FLASHING FROM CURB
7.52	REMOVE AND SALVAGE EXISTING CURB AND SHT MTL CAP. INSTALL TREATED WOOD BLKG AS REQD TO RAISE CURB TO 8" MIN ABV. ROOFING SURFACE, INSTALL ROOFING MEMB FLASHING ON CURB AND REINSTALL SHT MTL CAP.
7.54	EXISTING ROOF ACCESS HATCH AND CURB TO REMAIN.
7.59B	EXISTING RD TO REMAIN (TYP)
7.66E	REMOVE MTL THRU-WALL SCUPPER.
23.02	EXISTING DUCT TO REMAIN - REF. MECH.
23.02E	EXISTING INTAKE HOOD, MTL CURB COUNTERFLASHING, AND CURB TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF MEMB FLASHING - REF MEP. RAISE EXISTING CURB W/ TREATED WOOD BLKG TO 8" MIN. ABV. ROOFING MEMB.
23.02F	EXISTING PRV, MTL CURB COUNTERFLASHING, AND CURB TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF MEMB FLASHING - REF MEP. RAISE EXISTING CURB W/ TREATED WOOD BLKG TO 8" MIN. ABV. ROOFING MEMB.
23.02M	EXISTING CHILLER, CURBS, AND MTL CURB CAP FLASHING TO BE REMOVED AND REINSTALLED AS REQD FOR REROOFING. RAISE CURBS WITH TREATED WOOD BLOCKING SO CURBS EXTEND 8" MIN ABOVE ROOFING , EXTEND MEMBRANE FLASHING OVER CURBS AND REISTALL MTL CAP FLASHING. - REF. MECH.
23.02R	EXISTING MECH UNIT AND CURB TO REMAIN.
26.02A	EXISTING CONDUIT THRU ROOF TO REMAIN.



F1 **ROOF PLAN - DEMOLITION - A, C, E, F**
1/8" = 1'-0"
F1 / 05.AD120

NORTH



NORTH
CAMPUS BUILDING KEY PLAN

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

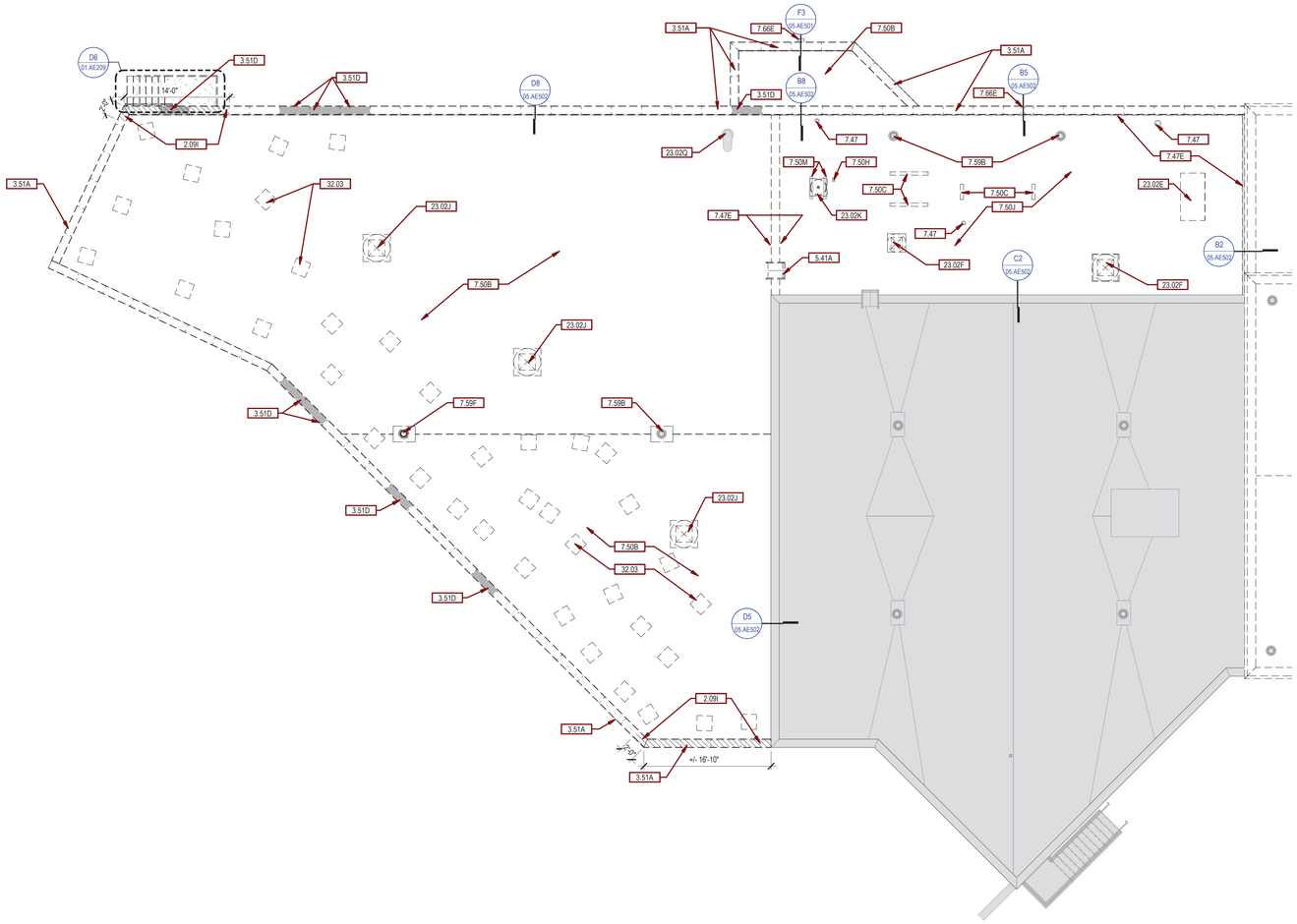
ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT REG. NO. 9771 TODD RANDALL STONE SOUTH DAKOTA
9·15·23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ARCHITECTURAL - ROOF PLAN - DEMOLITION - A, C, E, F	CONSTRUCTION DOCUMENTS	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	VA #438-22-600 SGA #221926
Approved:		Location: SIOUX FALLS, SOUTH DAKOTA	Building Number: 05
		Issue Date: 09-15-2023; Checked: BH; Drawn: MA	Drawing Number: 05. AD121

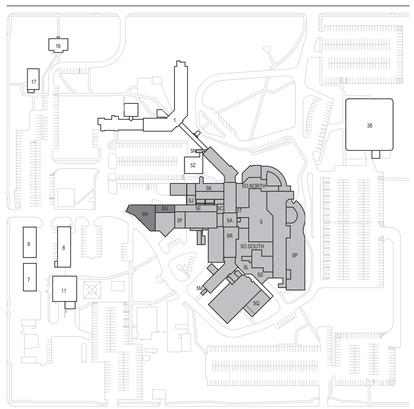
VA FORM 08 - 6231
9/14/2023 11:22:25 AM
C:_SGA Revit Local\BUILDING 05_MichaelAfb.rvt



GENERAL DEMOLITION PLAN NOTES:

A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

KEYNOTES_SGA	
Key Value	Keynote Text
2.09I	REMOVE DAMAGED TOP COURSE OF 8" CMU BOND BEAM AT LENGTH INDICATED. VERT REINFORCING TO REMAIN IN PLACE.
3.51A	REMOVE PRECAST CONC PARAPET CAPS AND FLASHING. SALVAGE PRECAST CAPS FOR REINSTALLATION. (TYP U.N.O.)
3.51D	REMOVE DAMAGED PRECAST PARAPET CAP AND FLASHING.
5.41A	REMOVE AND REINSTALL EXISTING ACCESS LADDER AS REQD FOR ROOFING WORK.
7.47	EXISTING VTR TO REMAIN.
7.47E	REMOVE EXISTING MEMB FLASHING
7.50B	REMOVE EXISTING ADHERED MEMB ROOFING, MEMB FLASHING, AND RIGID INSUL DN TO EXISTING MTL DECK
7.50C	REMOVE EXISTING CURB. REFERENCE STRUCTURAL FOR DECK INFILL.
7.50H	REMOVE POURABLE SEALER POCKET. CONDUIT/PIPING TO REMAIN - REF MEP.
7.50J	REMOVE EXISTING ADHERED MEMB ROOFING AND RIGID INSUL DN TO EXISTING CONC DECK
7.50M	EXISTING CURB TO REMAIN - REMOVE ROOFING MEMB FLASHING FROM CURB
7.59B	EXISTING RD TO REMAIN (TYP)
7.59F	EXISTING RD TO BE REMOVED
7.66E	REMOVE MTL THRU-WALL SCUPPER.
23.02E	EXISTING INTAKE HOOD, MTL CURB COUNTERFLASHING, AND CURB TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF MEMB FLASHING - REF MEP; RAISE EXISTING CURB W/ TREATED WOOD BLKG TO 8" MIN. ABV. ROOFING MEMB.
23.02F	EXISTING PRV, MTL CURB COUNTERFLASHING, AND CURB TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF MEMB FLASHING - REF MEP. RAISE EXISTING CURB W/ TREATED WOOD BLKG TO 8" MIN. ABV. ROOFING MEMB.
23.02J	EXISTING PRV AND MTL CURB COUNTERFLASHING TO BE REMOVED & REINSTALLED AS REQD FOR REPLACMENT OF ROOFING MEMB FLASHING - REF MEP. EXISTING CURB TO REMAIN.
23.02K	EXISTING CONDENSING UNIT TO BE REMOVED AND REINSTALLED AS REQUIRED FOR REROOFING - REF MEP.
23.02Q	EXISTING INTAKE HOOD TO REMAIN
32.03	EXISTING CONC PAVERS TO BE REMOVED (TYP)



CAMPUS BUILDING KEY PLAN

NORTH

ROOF PLAN - DEMOLITION - G, H

F1 — 1/8" = 1'-0"

NORTH

F1 / 05.AD120

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

REGISTERED ARCHITECT — REG. NO. 9711 — TODD A. KOAK — SOUTH DAKOTA — 9-15-23

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - ROOF PLAN - DEMOLITION - G, H
Phase	CONSTRUCTION DOCUMENTS
Approved:	
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Project Number	VA #438-22-600 SGA #221926
Building Number	05
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	09-15-2023
Checked	BH
Drawn	MA
Drawing Number	05. AD122

VA FORM 08 - 6231

C:_SGA Revit Local\BUILDING 05_MichaelAb.rvt

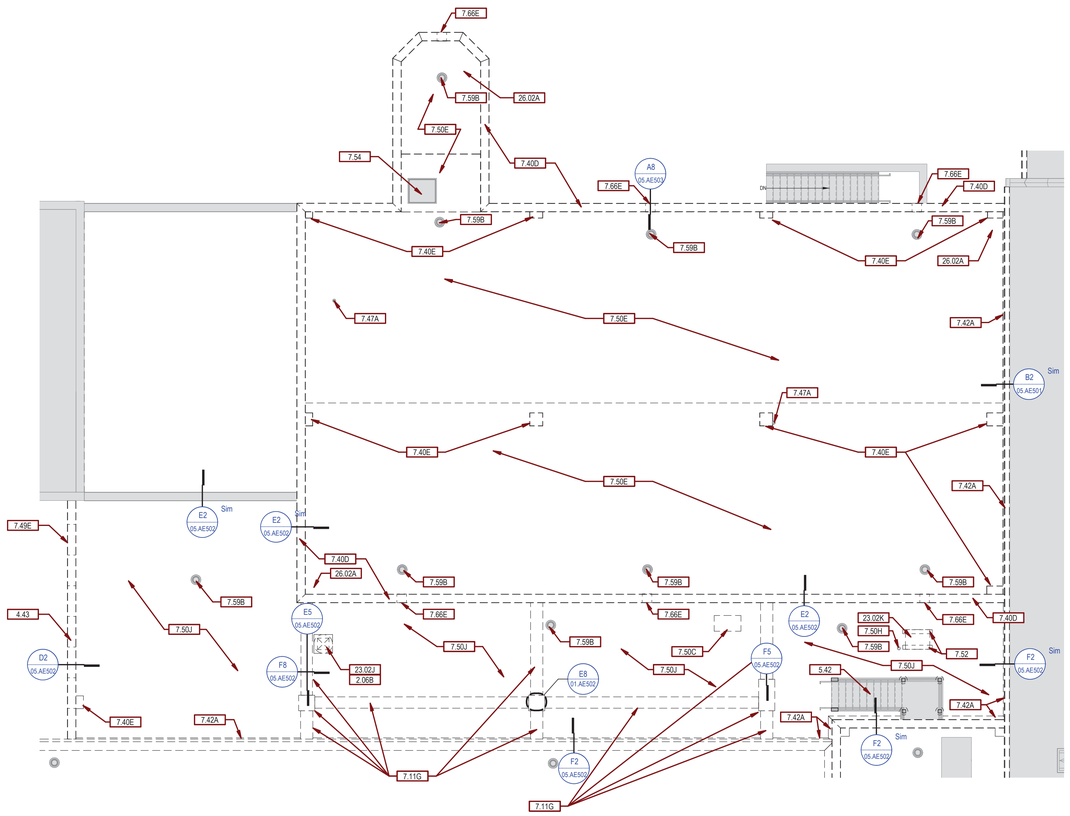
9/14/2023 11:22:26 AM

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

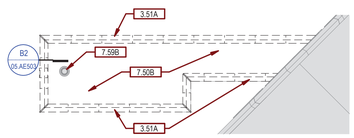
GENERAL DEMOLITION PLAN NOTES:

A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

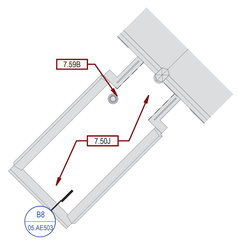
KEYNOTES_SGA	
Key Value	**Keynote Text**
2.06B	REMOVE EXISTING CANT STRIPS ON CURB.
3.51A	REMOVE PRECAST CONC PARAPET CAPS AND FLASHING. SALVAGE PRECAST CAPS FOR REINSTALLATION. (TYP U.N.O.)
4.43	REMOVE EXISTING PRECAST CONC PARAPET CAP AND FLASHING. SALVAGE PRECAST CONC CAPS FOR REINSTALLATION.
5.42	EXISTING MTL STAIRS TO REMAIN.
7.11G	REMOVE EXISTING DEFS AND 5/8" CEM BD ON COLS/BMS (MTL STUD FRAMING TO REMAIN). INSTALL NEW 5/8" GYP SHEATHING, WRB, DRAINAGE SPACERS, 1/2" CEM BD. AND DEFS ON EXISTING MTL STUD FRAMING.
7.40D	REMOVE EXISTING MTL COPING AND KEEPER STRIP
7.40E	REMOVE EXISTING MTL CAP AND MEMB FLASHING OVER COL CAPS
7.42A	REMOVE EXISTING FLASHING
7.47A	EXISTING VTR. PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.
7.49E	REMOVE COPPER THRU-WALL SCUPPER.
7.50B	REMOVE EXISTING ADHERED MEMB ROOFING, MEMB FLASHING, AND RIGID INSUL DN TO EXISTING MTL DECK
7.50C	REMOVE EXISTING CURB. REFERENCE STRUCTURAL FOR DECK INFILL.
7.50E	REMOVE BALLASTED MEMB ROOFING, MEMB FLASHING, AND RIGID INSUL DN TO DECK.
7.50H	REMOVE POURABLE SEALER POCKET. CONDUIT/PIPING TO REMAIN - REF MEP.
7.50J	REMOVE EXISTING ADHERED MEMB ROOFING AND RIGID INSUL DN TO EXISTING CONC DECK
7.52	REMOVE AND SALVAGE EXISTING CURB AND SHT MTL CAP. INSTALL TREATED WOOD BLKG AS REQD TO RAISE CURB TO 8" MIN ABV. ROOFING SURFACE, INSTALL ROOFING MEMB FLASHING ON CURB AND REINSTALL SHT MTL CAP.
7.54	EXISTING ROOF ACCESS HATCH AND CURB TO REMAIN.
7.59B	EXISTING RD TO REMAIN (TYP)
7.66E	REMOVE MTL THRU-WALL SCUPPER.
23.02J	EXISTING PRV AND MTL CURB COUNTERFLASHING TO BE REMOVED & REINSTALLED AS REQD FOR REPLACMENT OF ROOFING MEMB FLASHING - REF MEP. EXISTING CURB TO REMAIN.
23.02K	EXISTING CONDENSING UNIT TO BE REMOVED AND REINSTALLED AS REQURIED FOR REROOFING - REF MEP.
26.02A	EXISTING CONDUIT THRU ROOF TO REMAIN.



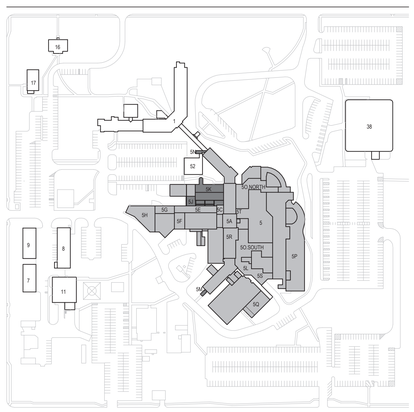
F1 ROOF PLAN - DEMOLITION - J, K
NORTH
1/8" = 1'-0"
F1 / 05.AD120



D6 ROOF PLAN - DEMOLITION - N
NORTH
1/8" = 1'-0"
F1 / 05.AD120



F6 ROOF PLAN - DEMOLITION - M
NORTH
1/8" = 1'-0"
F1 / 05.AD120



CAMPUS BUILDING KEY PLAN
NORTH

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

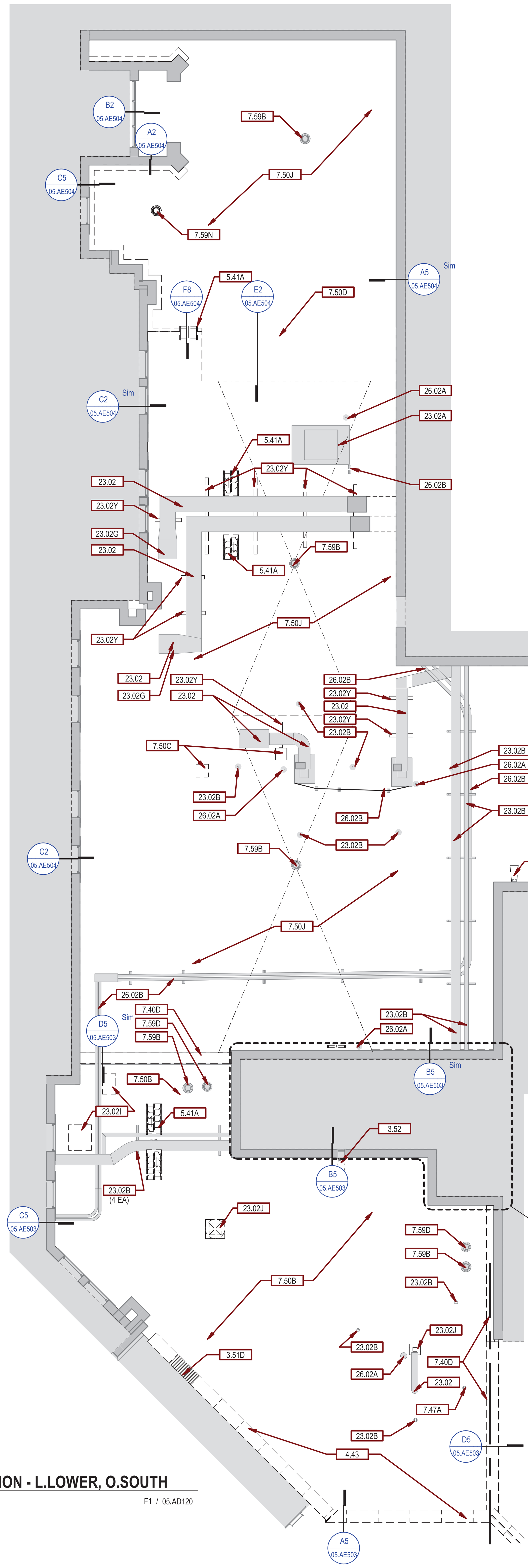
STAMP
REGISTERED ARCHITECT
REG. NO. 07714
TODD A. NOAH
SOUTH DAKOTA
9-15-23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

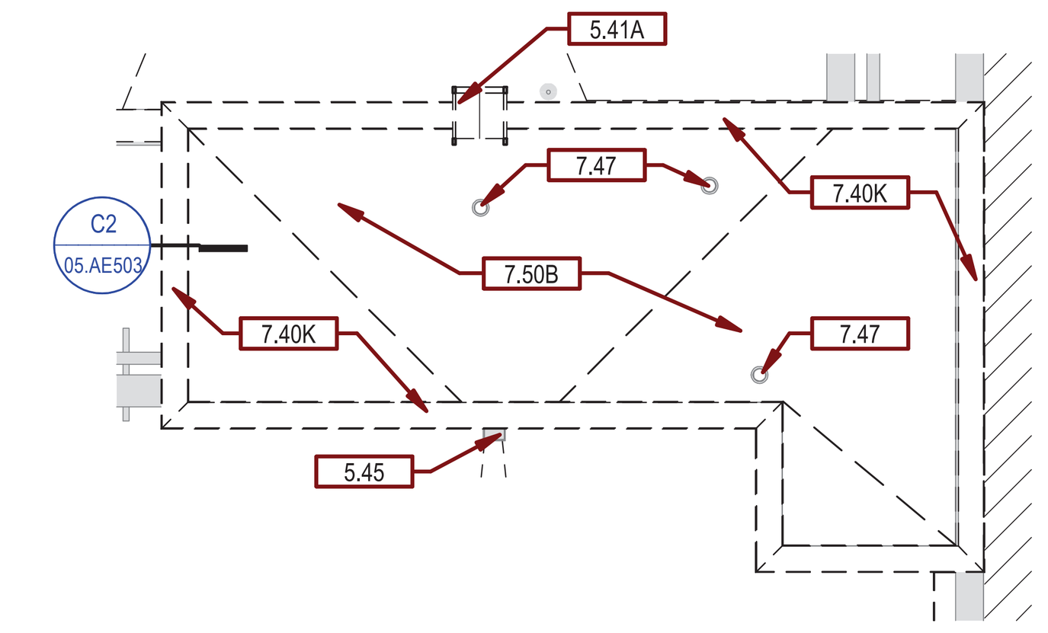
Drawing Title: ARCHITECTURAL - ROOF PLAN - DEMOLITION - J, K, M, N	Phase: CONSTRUCTION DOCUMENTS	Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Approved:		Location: SIOUX FALLS, SOUTH DAKOTA
		Issue Date: 09-15-2023 / Checked: BH / Drawn: MA

Project Number: VA #438-22-600 SGA #221926
Building Number: 05
Drawing Number: 05. AD123

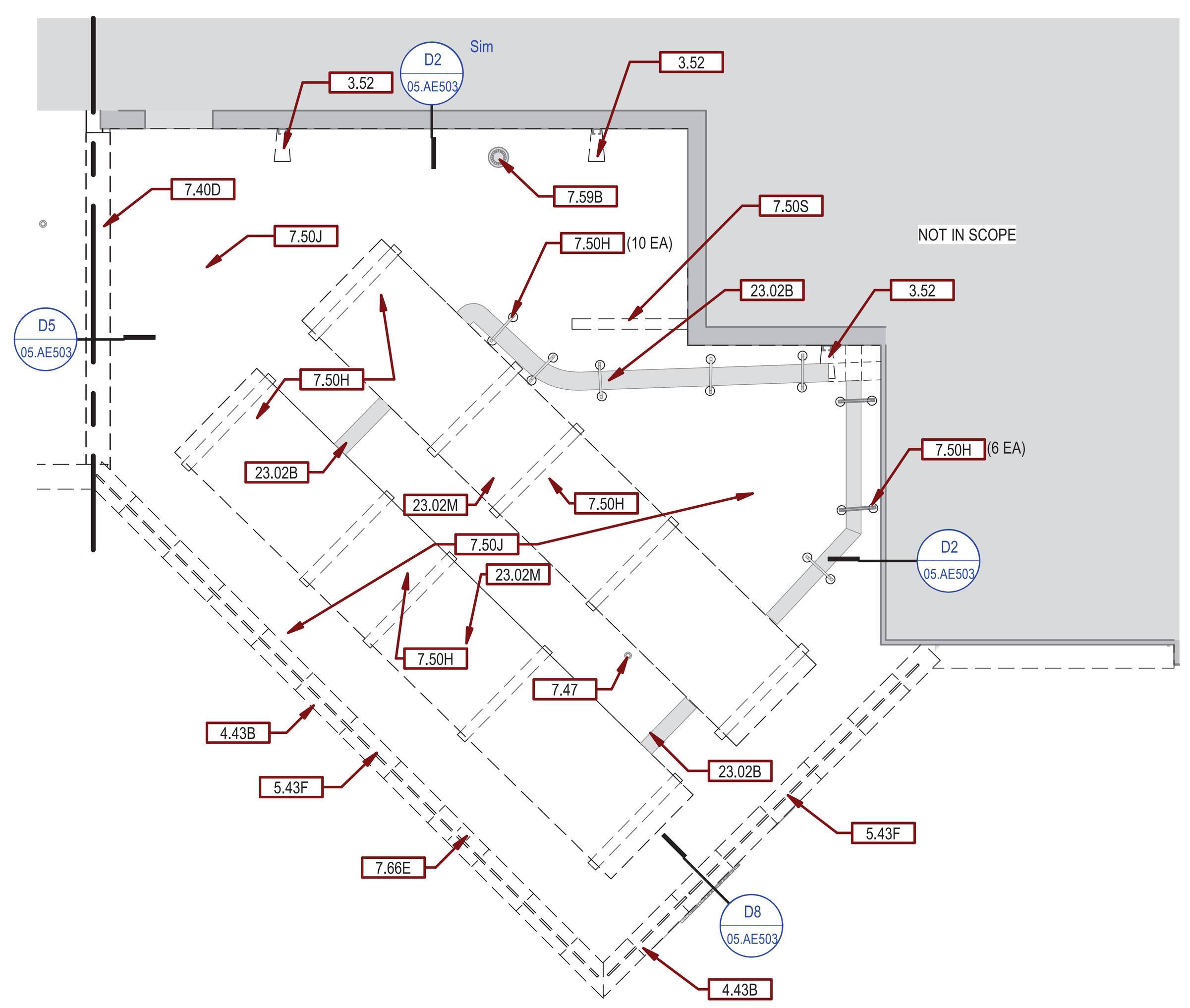
C:\...SGA Revit Local\BUILDING 05_MichaelAbi.rvt
9/14/2023 11:22:28 AM
VA FORM 08 - 6231



ROOF PLAN - DEMOLITION - L.LOWER, O.SOUTH
1/8" = 1'-0"
F1 / 05.AD120



ROOF PLAN - DEMOLITION - L. UPPER
1/8" = 1'-0"



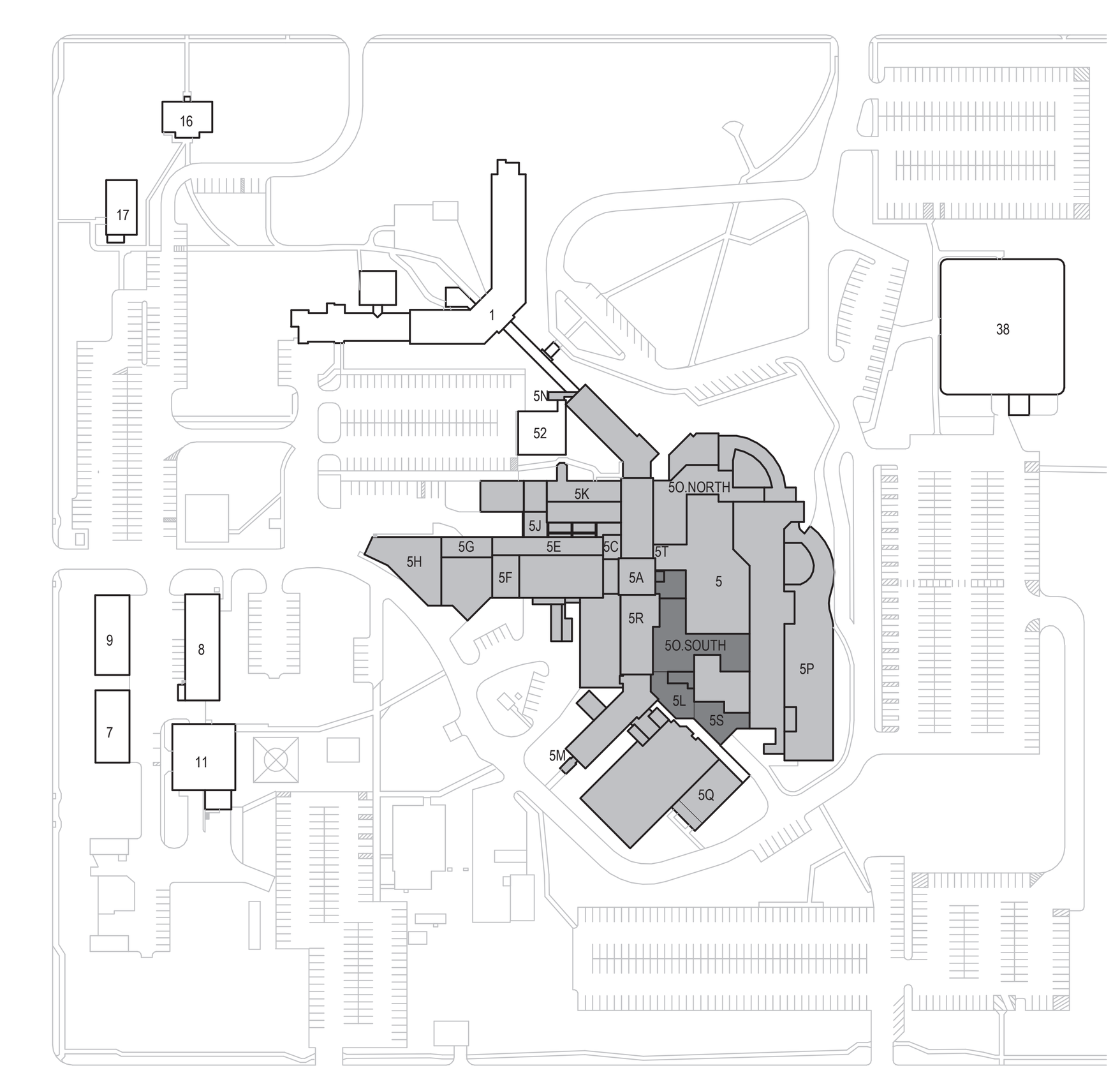
ROOF PLAN - DEMOLITION - S
1/8" = 1'-0"
F1 / 05.AD120

GENERAL DEMOLITION PLAN NOTES:

A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

KEYNOTES_SGA

Key Value	Keynote Text
3.51D	REMOVE DAMAGED PRECAST PARAPET CAP AND FLASHING.
3.52	REMOVE AND REINSTALL CONC SPLASH BLOCK AS REQD FOR RE-ROOFING.
4.43	REMOVE EXISTING PRECAST CONC PARAPET CAP AND FLASHING. SALVAGE PRECAST CONC CAPS FOR REINSTALLATION.
4.43B	REMOVE EXISTING PRECAST CONC PARAPET CAP AND FLASHING.
5.41A	REMOVE AND REINSTALL EXISTING ACCESS LADDER AS REQD FOR ROOFING WORK.
5.43F	REMOVE EXISTING GUARDRAIL.
5.45	EXISTING SCUPPER TO REMAIN.
7.40D	REMOVE EXISTING MTL COPING AND KEEPER STRIP
7.40K	REMOVE AND SALVAGE EXISTING MTL COPING AND KEEPER STRIP FOR REINSTALLATION.
7.47	EXISTING VTR TO REMAIN.
7.47A	EXISTING VTR. PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.
7.50B	REMOVE EXISTING ADHERED MEMB ROOFING, MEMB FLASHING, AND RIGID INSUL DN TO EXISTING MTL DECK
7.50C	REMOVE EXISTING CURB. REFERENCE STRUCTURAL FOR DECK INFILL.
7.50D	REMOVE EXISTING MEMB ROOFING AND INSUL.
7.50H	REMOVE POURABLE SEALER POCKET. CONDUIT/PIPING TO REMAIN - REF MEP.
7.50J	REMOVE EXISTING ADHERED MEMB ROOFING AND RIGID INSUL DN TO EXISTING CONC DECK
7.50S	REMOVE EXISTING CURB.
7.59B	EXISTING RD TO REMAIN (TYP)
7.59D	EXISTING ORD TO REMAIN
7.59N	REMOVE EXISTING RD - REF. MECH.
7.66E	REMOVE MTL THRU-WALL SCUPPER.
23.02	EXISTING DUCT TO REMAIN - REF. MECH.
23.02A	EXISTING MECH UNIT AND CURB TO REMAIN.
23.02B	EXISTING PIPING AND SUPPORTS TO REMAIN
23.02G	REMOVE DUCT INSULATION, INSTALL MEMB FLASHING 8" MIN UP PENETRATING DUCT AND REINSTALL INSULAITON - REF MECH.
23.02I	EXISTING INTAKE HOOD AND MTL CURB COUNTERFLASHING TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF ROOFING MEMB FLASHING - REF. MEP. EXISTING CURB TO REMAIN.
23.02J	EXISTING PRV AND MTL CURB COUNTERFLASHING TO BE REMOVED & REINSTALLED AS REQD FOR REPLACMENT OF ROOFING MEMB FLASHING - REF MEP. EXISTING CURB TO REMAIN.
23.02M	EXISTING CHILLER, CURBS, AND MTL CURB CAP FLASHING TO BE REMOVED AND REINSTALLED AS REQD FOR REROOFING. RAISE CURBS WITH TREATED WOOD BLOCKING SO CURBS EXTEND 8" MIN ABOVE ROOFING , EXTEND MEMBRANE FLASHING OVER CURBS AND REISTALL MTL CAP FLASHING. - REF. MECH.
23.02Y	EXISTING DUCT SUPPORTS AND MTL CURB COUNTER FLASHING TO BE TO BE REMOVED AND REINSTALLED AS REQD - REF MEP. REMOVE EXISTING MEMB FLASHING ON CURBS AND INSTALL NEW MEMB FLASHING UP AND OVER CURB (EXISTING CURB TO REMAIN) - REF TYP DETAIL.
26.02A	EXISTING CONDUIT THRU ROOF TO REMAIN.
26.02B	EXISTING CONDUIT AND SUPPORT SLEEPERS TO REAMIN. TEMPORARILY SUPORT CONDUIT DURING ROOFING WORK - REF ELEC.



CAMPUS BUILDING KEY PLAN

Revision#	Description	Date:

CONSULTANTS

CIVIL:
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - ROOF PLAN - DEMOLITION - L, O.SOUTH, S

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location: SIOUX FALLS, SOUTH DAKOTA

Issue Date: 09-15-2023 | Checked: BH | Drawn: MA

Project Number: VA #438-22-600 SGA #221926

Building Number: 05

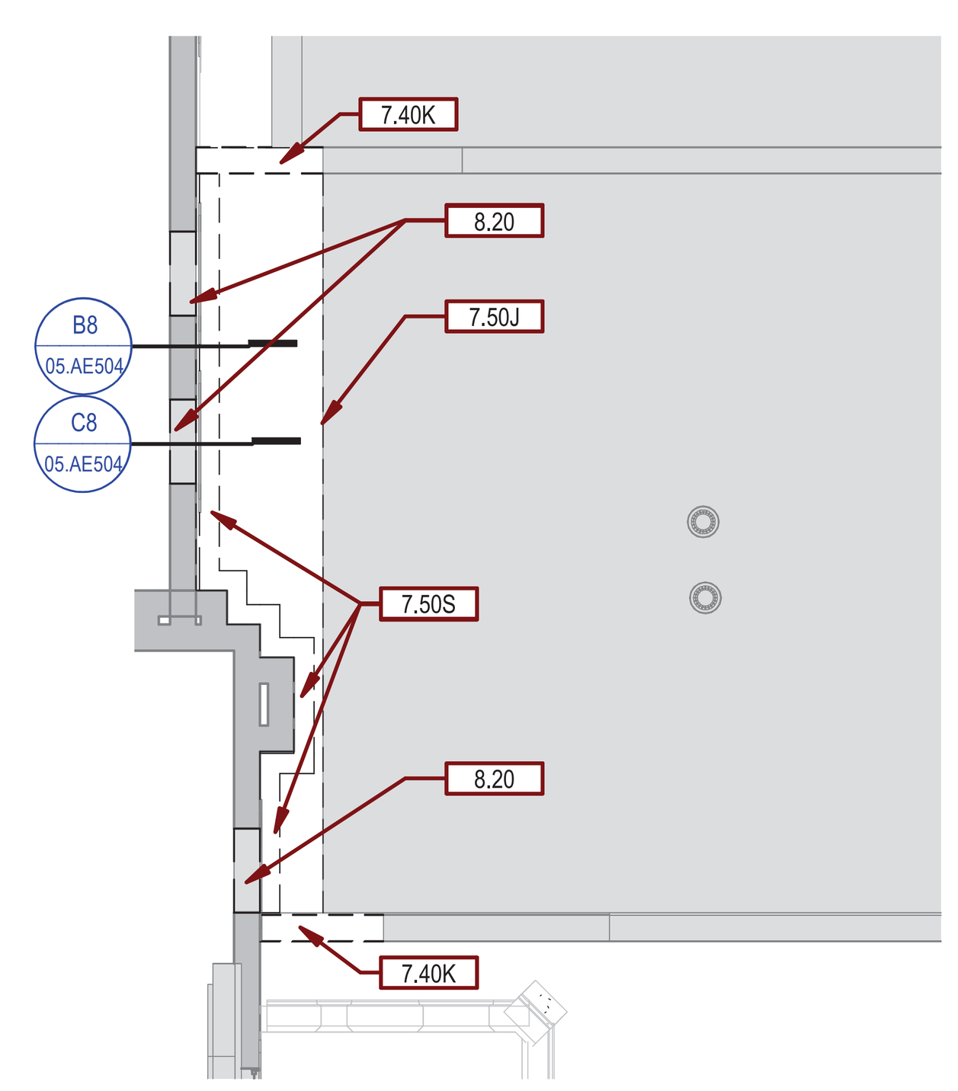
Drawing Number: 05. AD124

VA FORM 08 - 6231

9/14/2023 11:22:30 AM

C:_SGA Revit Local\BUILDING 05_MichaelAlb.rvt

F1 ROOF PLAN - DEMOLITION - O.NORTH
1/8" = 1'-0" F1 / 05.AD120



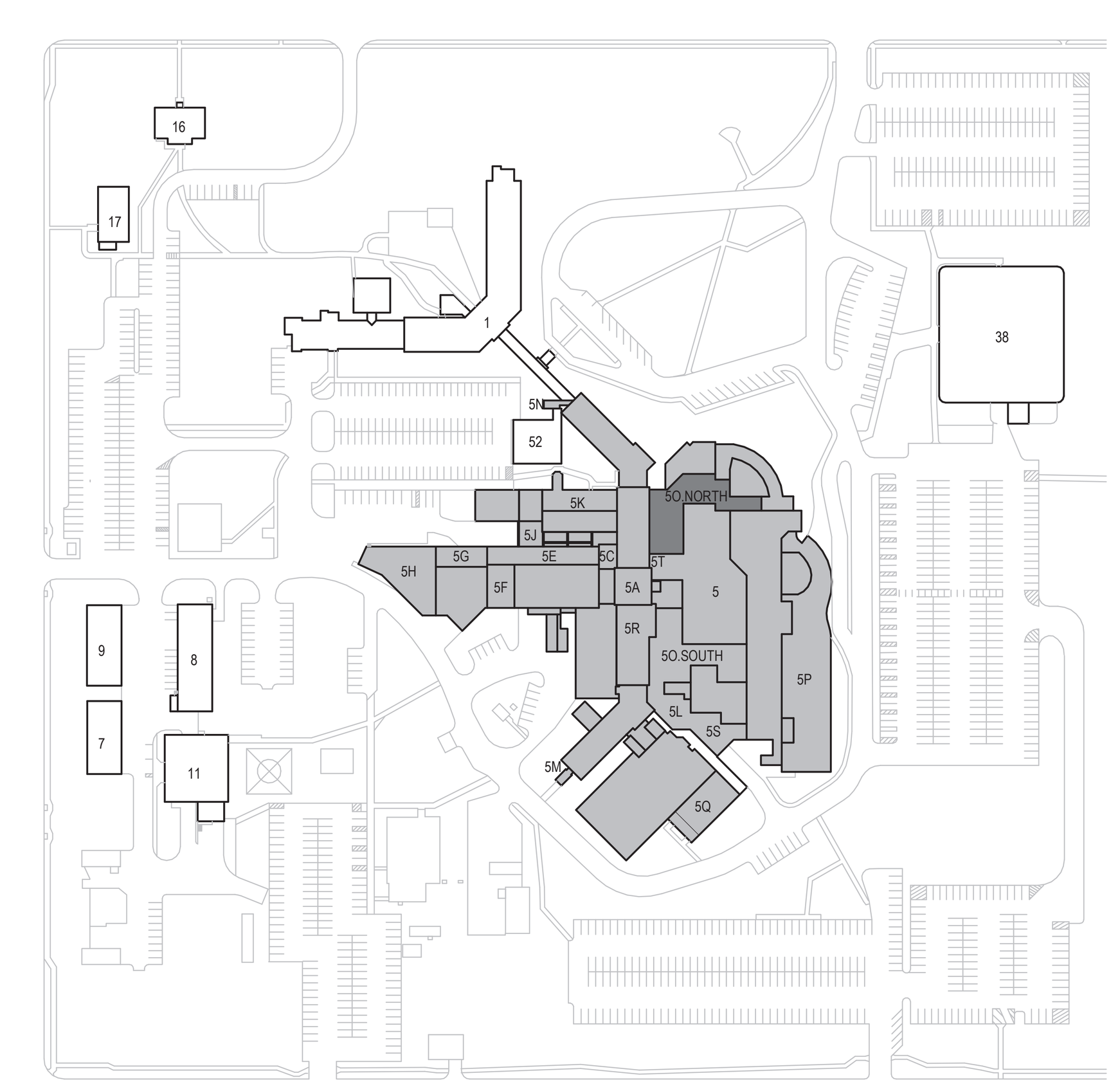
F6 ROOF PLAN - DEMOLITION - T
1/8" = 1'-0" F1 / 05.AD120

GENERAL DEMOLITION PLAN NOTES:

A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

KEYNOTES_SGA

Key Value	Keynote Text
7.40K	REMOVE AND SALVAGE EXISTING MTL COPING AND KEEPER STRIP FOR REINSTALLATION.
7.47	EXISTING VTR TO REMAIN.
7.50J	REMOVE EXISTING ADHERED MEMB ROOFING AND RIGID INSUL DN TO EXISTING CONC DECK
7.50S	REMOVE EXISTING CURB.
7.59N	REMOVE EXISTING RD - REF. MECH.
8.20	REMOVE EXIST ALUM CURTAIN WALL AND SALVAGE FOR REINSTALLATION
23.02B	EXISTING PIPING AND SUPPORTS TO REMAIN
23.02U	EXISTING MECHANICAL UNIT AND MTL CURB CAP FLASHING TO BE REMOVED AND REINSTALLED AS REQD FOR REROOFING (EXISTING CURB TO REMAIN) - REF TYP DETAIL - REF MEP.



CAMPUS BUILDING KEY PLAN
NORTH

Revision#	Description	Date:

CONSULTANTS

CIVIL: EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP: DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT
9-15-23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ARCHITECTURAL - ROOF PLAN - DEMOLITION - O.NORTH, T	CONSTRUCTION DOCUMENTS	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	VA #438-22-600 SGA #221926
Approved:		Location: SIOUX FALLS, SOUTH DAKOTA	Building Number: 05
		Issue Date: 09-15-2023 / Checked: BH / Drawn: MA	Drawing Number: 05. AD125

VA FORM 08 - 6231

9/14/2023 11:22:30 AM

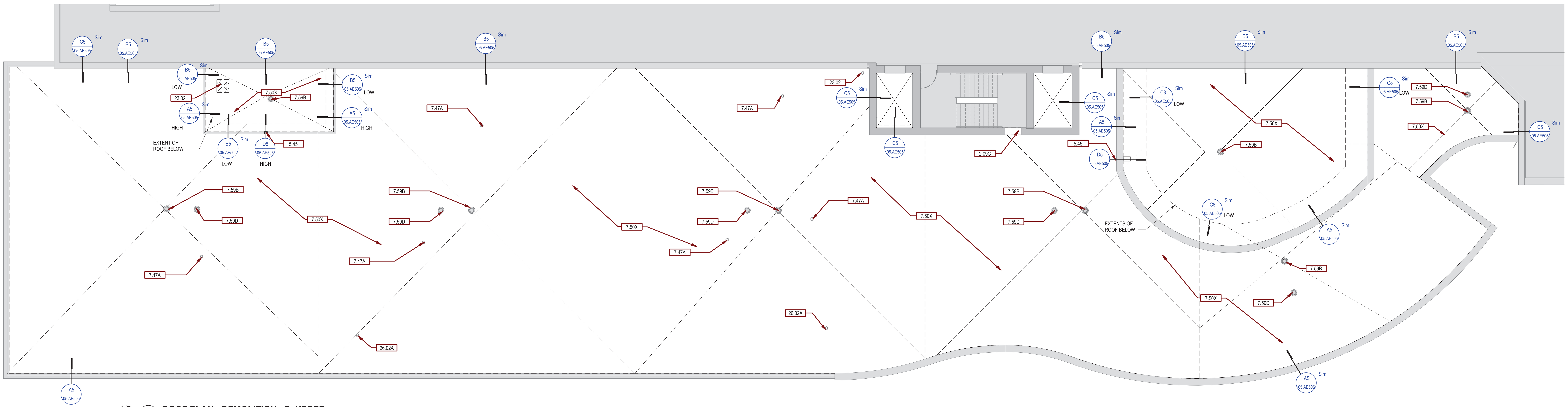
C:_SGA Revit Local\BUILDING 05_MichaelAlb.rvt

GENERAL DEMOLITION PLAN NOTES:

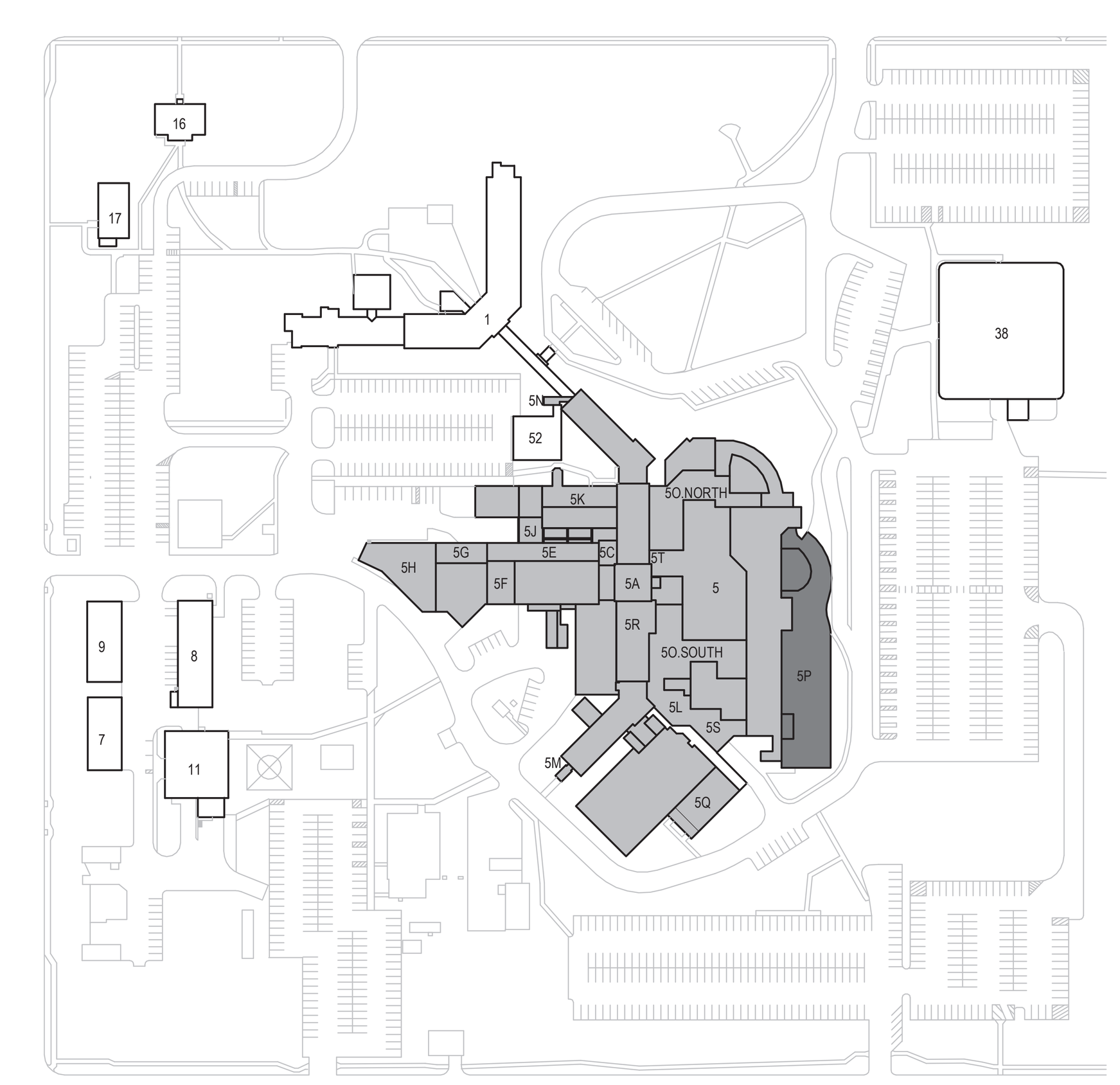
A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

KEYNOTES_SGA

Key Value	Keynote Text
2.09C	SAWCUT AND REMOVE CMU & BRICK WALL AND REMOVE MTL STUD & GYP BD FURRING AS REQUIRED FOR NEW DOOR.
5.45	EXISTING SCUPPER TO REMAIN.
7.47A	EXISTING VTR. PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.
7.50X	REMOVE EXISTING ADHERED MEMB ROOFING, MEMB FLASHING, RIGID INSUL, AND GYP SHEATHING DN TO EXISTING MTL DECK
7.59B	EXISTING RD TO REMAIN (TYP)
7.59D	EXISTING ORD TO REMAIN
23.02	EXISTING DUCT TO REMAIN - REF. MECH.
23.02J	EXISTING PRV AND MTL CURB COUNTERFLASHING TO BE REMOVED & REINSTALLED AS REQD FOR REPLACMENT OF ROOFING MEMB FLASHING - REF MEP. EXISTING CURB TO REMAIN.
26.02A	EXISTING CONDUIT THRU ROOF TO REMAIN.



D2 ROOF PLAN - DEMOLITION - P. UPPER
1/8" = 1'-0"
NORTH
F1 / 05.AD120



CAMPUS BUILDING KEY PLAN
NORTH

Revision#	Description	Date:

CONSULTANTS

CIVIL: EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP: DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT REG. NO. 9771 TODD RANDALL STONE SOUTH DAKOTA 9·15·23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - ROOF PLAN - DEMOLITION- P.UPPER
Approved:
Phase: CONSTRUCTION DOCUMENTS
Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location: SIOUX FALLS, SOUTH DAKOTA
Issue Date: 09-15-2023
Checked: BH
Drawn: MA
Project Number: VA #438-22-600 SGA #221926
Building Number: 05
Drawing Number: 05. AD126

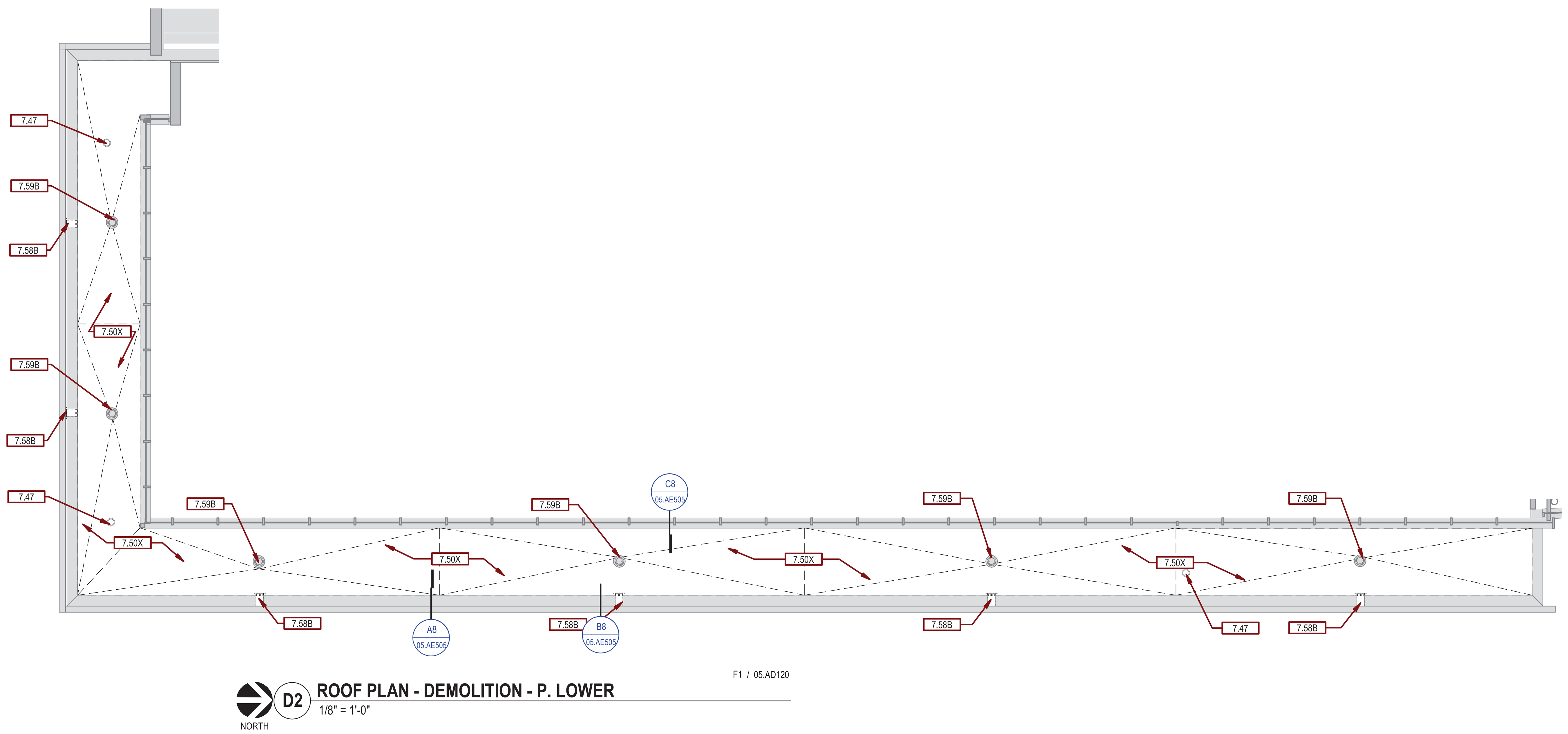
VA FORM 08 - 6231
C:_SGA Revit Local\BUILDING 05_MichaelAlb.rvt
9/14/2023 11:22:32 AM

GENERAL DEMOLITION PLAN NOTES:

A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

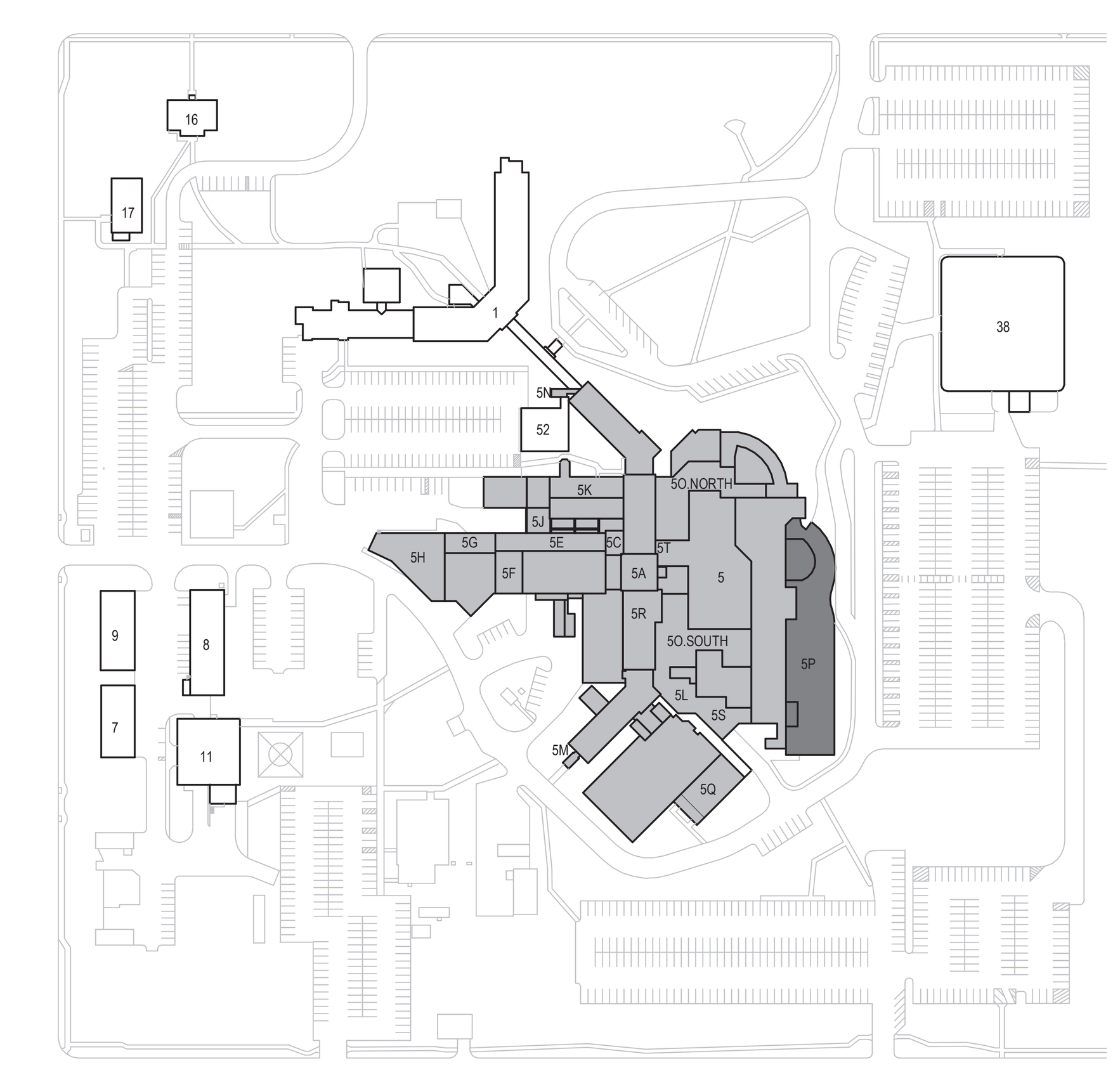
KEYNOTES_SGA

Key Value	Keynote Text
7.47	EXISTING VTR TO REMAIN.
7.50X	REMOVE EXISTING ADHERED MEMB ROOFING, MEMB FLASHING, RIGID INSUL, AND GYP SHEATHING DN TO EXISTING MTL DECK
7.58B	REMOVE PREFINISHED METAL OVERFLOW SCUPPER.
7.59B	EXISTING RD TO REMAIN (TYP)



F1 / 05.AD120

D2 ROOF PLAN - DEMOLITION - P. LOWER
1/8" = 1'-0"
NORTH



NORTH
CAMPUS BUILDING KEY PLAN

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT
9·15·23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ARCHITECTURAL - ROOF PLAN - DEMOLITION - P.LOWER	CONSTRUCTION DOCUMENTS	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	VA #438-22-600 SGA #221926
Approved:		Location: SIOUX FALLS, SOUTH DAKOTA	Building Number: 05
		Issue Date: 09-15-2023 / Checked: BH / Drawn: MA	Drawing Number: 05. AD127

VA FORM 08 - 6231

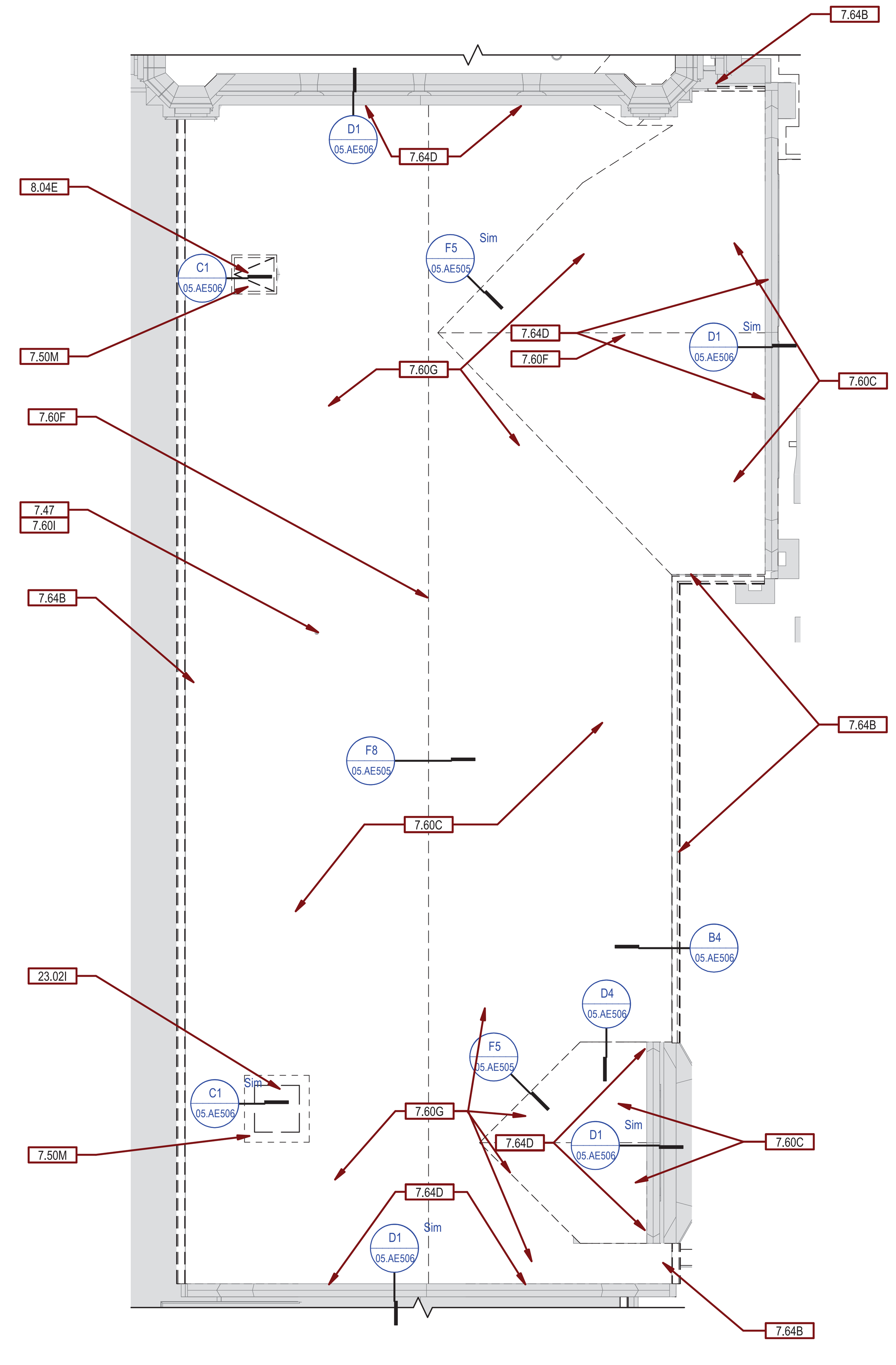
C:_SGA Revit Local\BUILDING 05_MichaelAlb.rvt
9/14/2023 11:22:32 AM

GENERAL DEMOLITION PLAN NOTES:

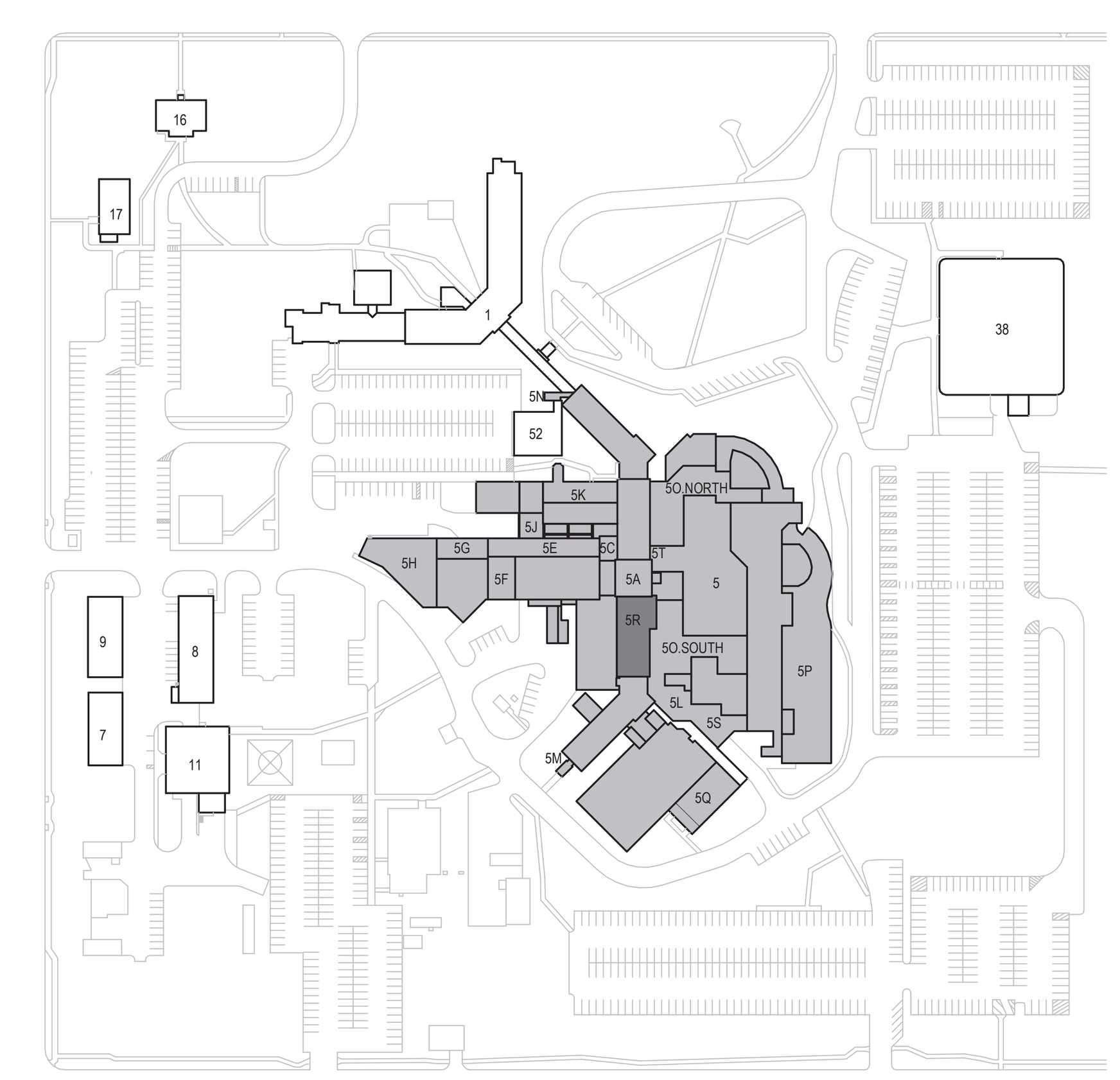
A. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
B. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
C. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
D. DEMO ITEMS ARE SHOWN AS DASHED.
E. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

KEYNOTES_SGA

Key Value	Keynote Text
7.47	EXISTING VTR TO REMAIN.
7.50M	EXISTING CURB TO REMAIN - REMOVE ROOFING MEMB FLASHING FROM CURB
7.60C	REMOVE AND SALVAGE EXISTING SLATE MTL ROOFING PANELS FOR REINSTALLATION
7.60F	EXISTING FALL PROTECTION STRUCTURE ON RIDGE TO REMAIN
7.60G	REMOVE AND SALVAGE EXISTING SNOW GUARDS FOR REINSTALLATION - VERIFY AND RECORD EXISTING LAYOUT PRIOR TO REMOVAL.
7.60I	REMOVE AND REINSTALL METAL PIPE FLASHING AS REQURIED FOR RE-ROOFING.
7.64B	REMOVE EXIST MTL GUTTERS AND STRAP HANGERS.
7.64D	REMOVE EXIST PREFINISHED MTL RAKE FLASHING.
8.04E	REMOVE AND REINSTALL ROOF ACCESS HATCH. RAISE CURB W/ TREATED WOOD BLKG TO 8" MIN. ABV. ROOFING MEMB.
23.02I	EXISTING INTAKE HOOD AND MTL CURB COUNTERFLASHING TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF ROOFING MEMB FLASHING - REF. MEP. EXISTING CURB TO REMAIN.



E5 **ROOF PLAN - DEMOLITION - R**
1/8" = 1'-0"
F1 / 05.AD120
NORTH



CAMPUS BUILDING KEY PLAN
NORTH

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT REG. NO. 9771 TODD RANDALL STONE SOUTH DAKOTA 9.15.23

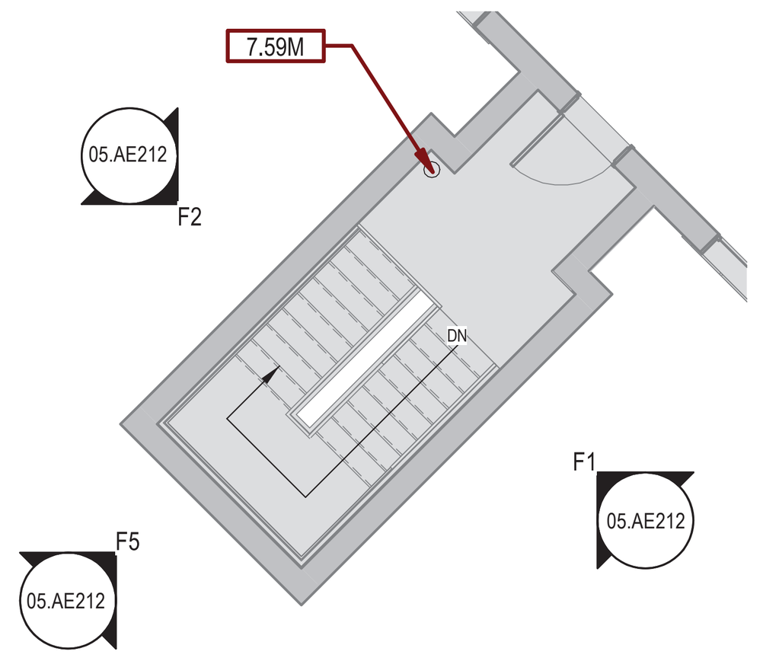
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - ROOF PLAN - DEMOLITION - R
Approved:
Phase: CONSTRUCTION DOCUMENTS
Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location: SIOUX FALLS, SOUTH DAKOTA
Issue Date: 09-15-2023
Checked: BH
Drawn: MA
Project Number: VA #438-22-600 SGA #221926
Building Number: 05
Drawing Number: 05. AD128

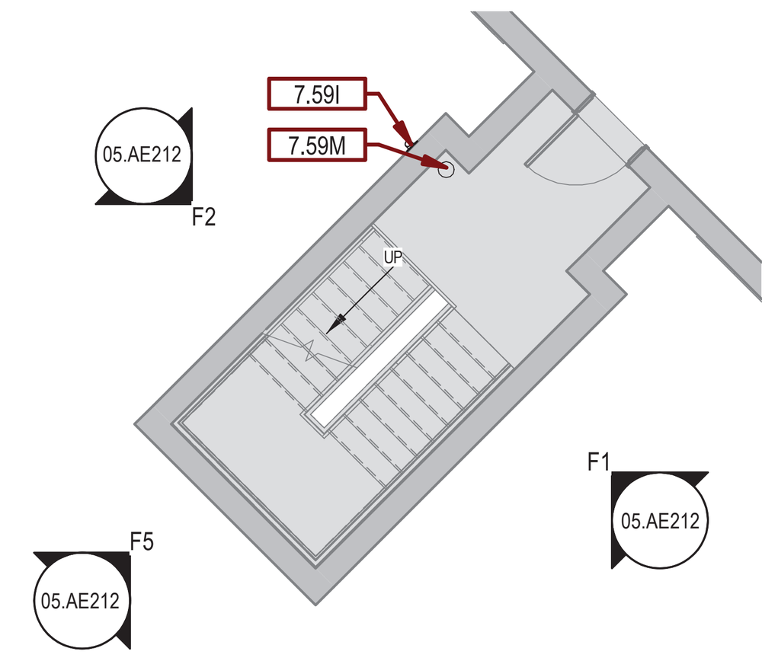
VA FORM 08 - 6231
C:_SGA Revit Local\BUILDING 05_MichaelAlb.rvt
9/14/2023 11:22:33 AM

GENERAL FLOOR PLAN NOTES:

A. ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER BEFORE PROCEEDING WITH THE WORK.
B. CONTRACTOR & SUBCONTRACTORS TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
C. ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
D. DETAILS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
E. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.



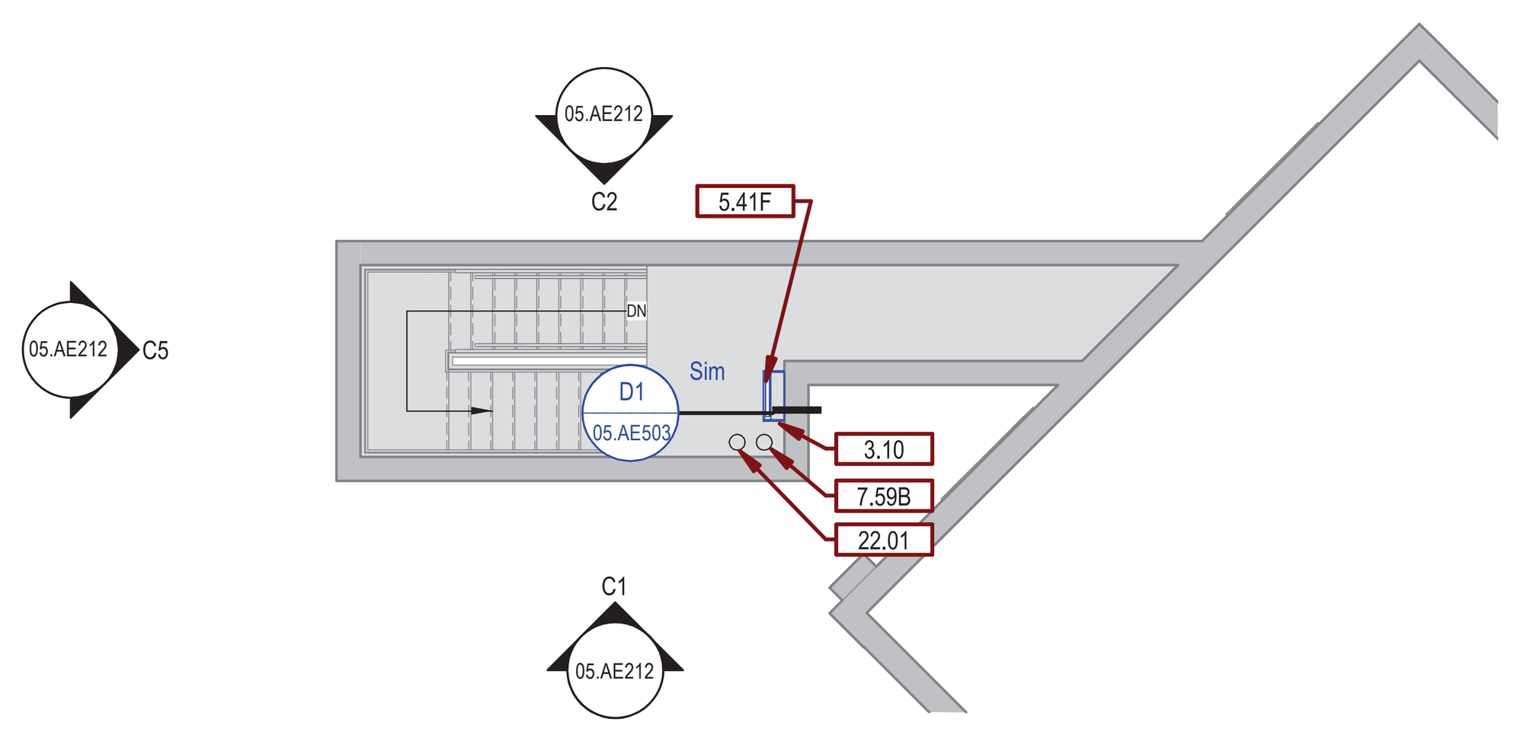
B1 4TH LEVEL FLOOR PLAN - M
1/8" = 1'-0"
NORTH



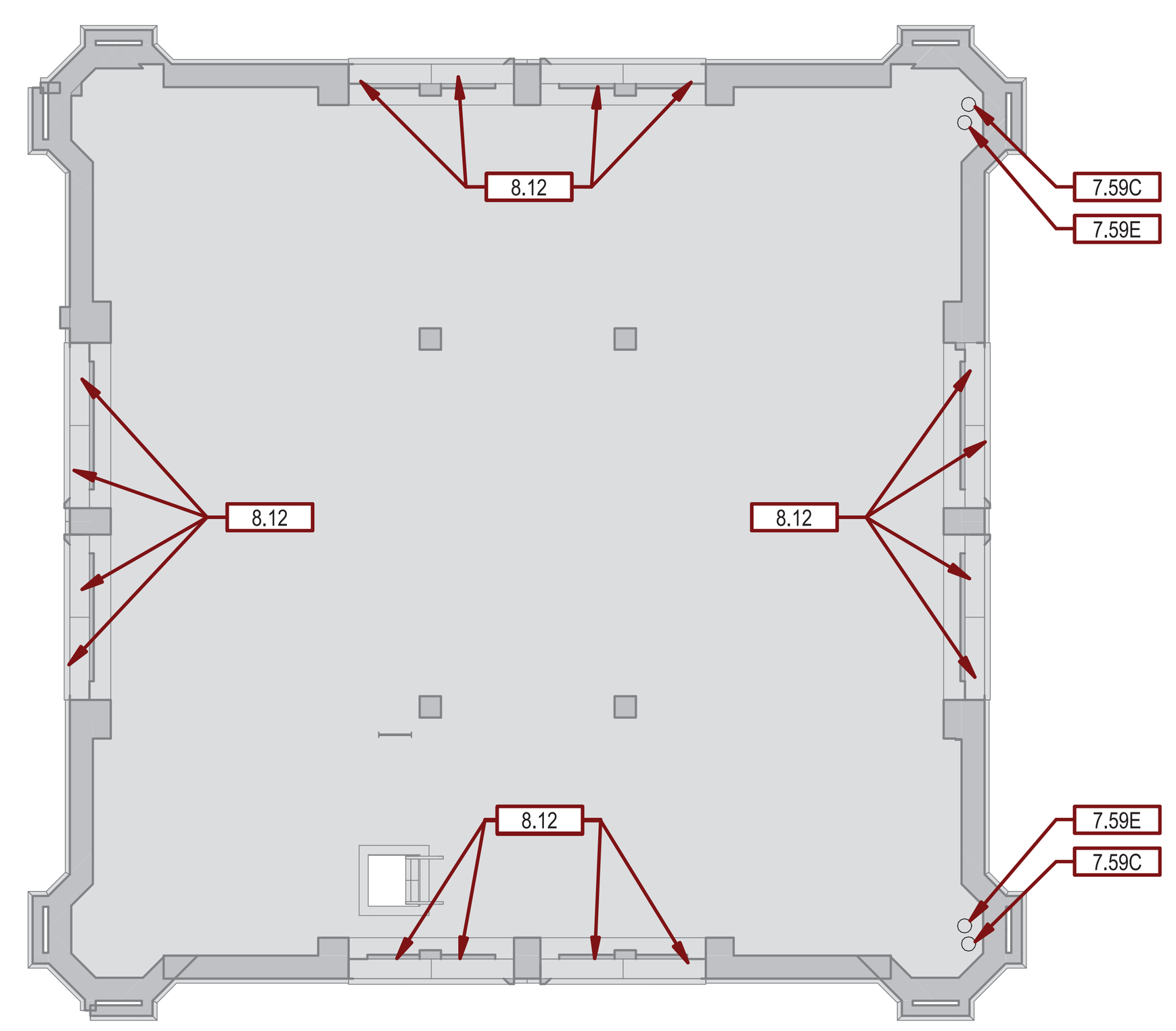
B4 3RD LEVEL FLOOR PLAN - M
1/8" = 1'-0"
NORTH

KEYNOTES_SGA

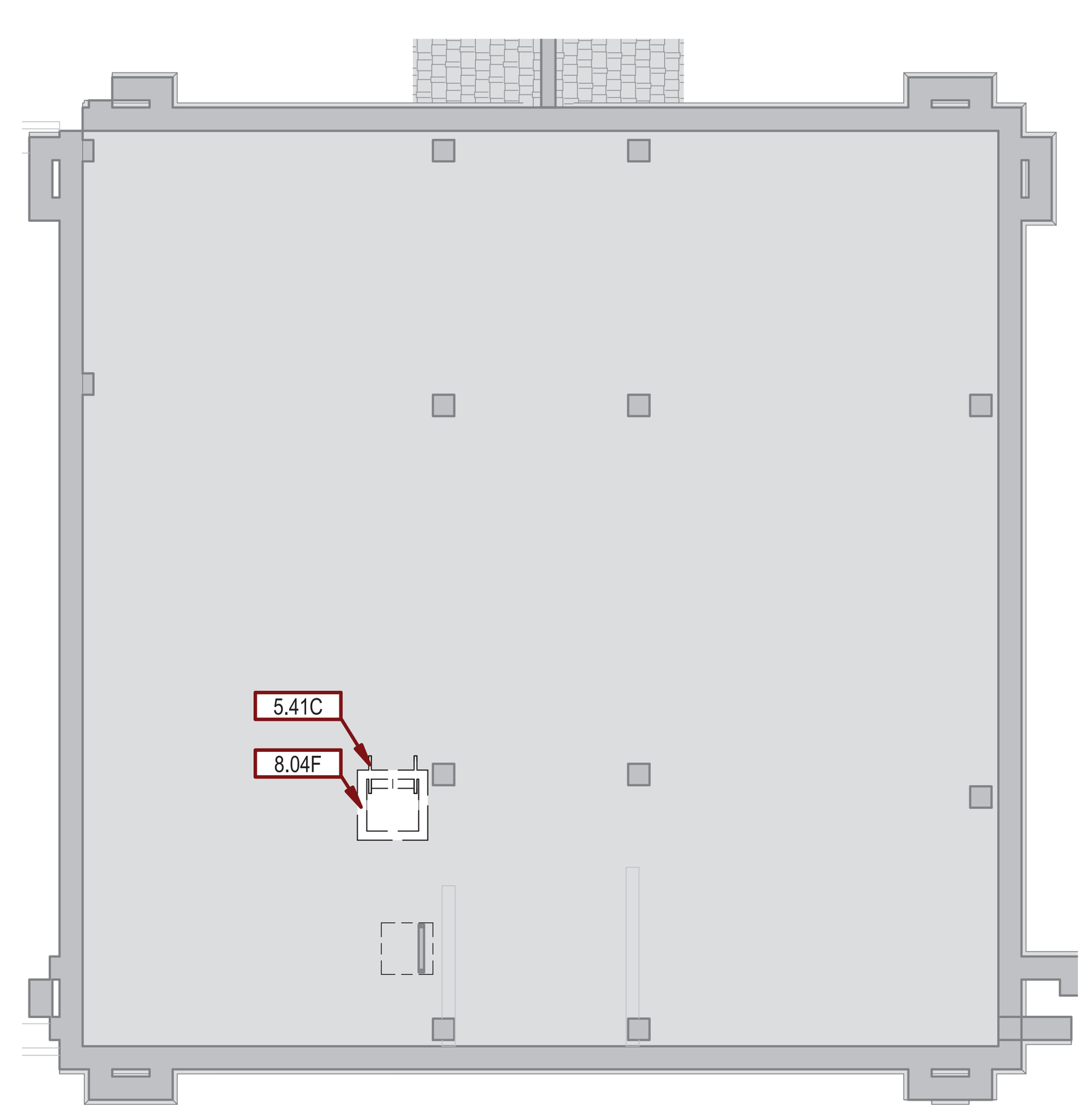
Key Value	Keynote Text
3.10	INFILL OPENING IN CONC FLR - REF STRUCT. PAINT PATCHED COMPOSITE DECKING BELOW TO MATCH EXISTING.
5.41C	REMOVE LADDER RAIL EXTENSIONS ABV FLR OPENING.
5.41F	STL WALL MOUNTED LADDER W/ 6 FT. HINGED LADDER GUARD (GALV).
7.59B	EXISTING RD TO REMAIN (TYP)
7.59C	EXISTING RD AND PIPING - REF. MECH.
7.59E	NEW ORD AND PIPING - REF. MECH.
7.59I	NEW STORM DRAIN LAMB'S TONGUE - REF. MECH.
7.59M	NEW RD AND PIPING - REF. MECH.
8.04D	30" x 30" ROOF ACCESS HATCH - ATTACH TO FLR AND PROVIDE SLNT AROUND BASE OF HATCH.
8.04F	REMOVE WELDED ANGLE FRAME AT EDGE OF OPENING
8.12	REMOVE EXISTING INSECT SCREENS AND INSTALL NEW #4 x 0.063" GALV. MESH WELDED TO 1 1/2" X 1/8" GALV PLATE PERIMETER FRAME. FASTEN FRAME TO WALL @ 12" O.C. ON BACK SIDE OF EA LOUVER (48 THUS)
22.01	RELOCATED FIRE SPRINKLER STANDPIPE - REF. MECH.



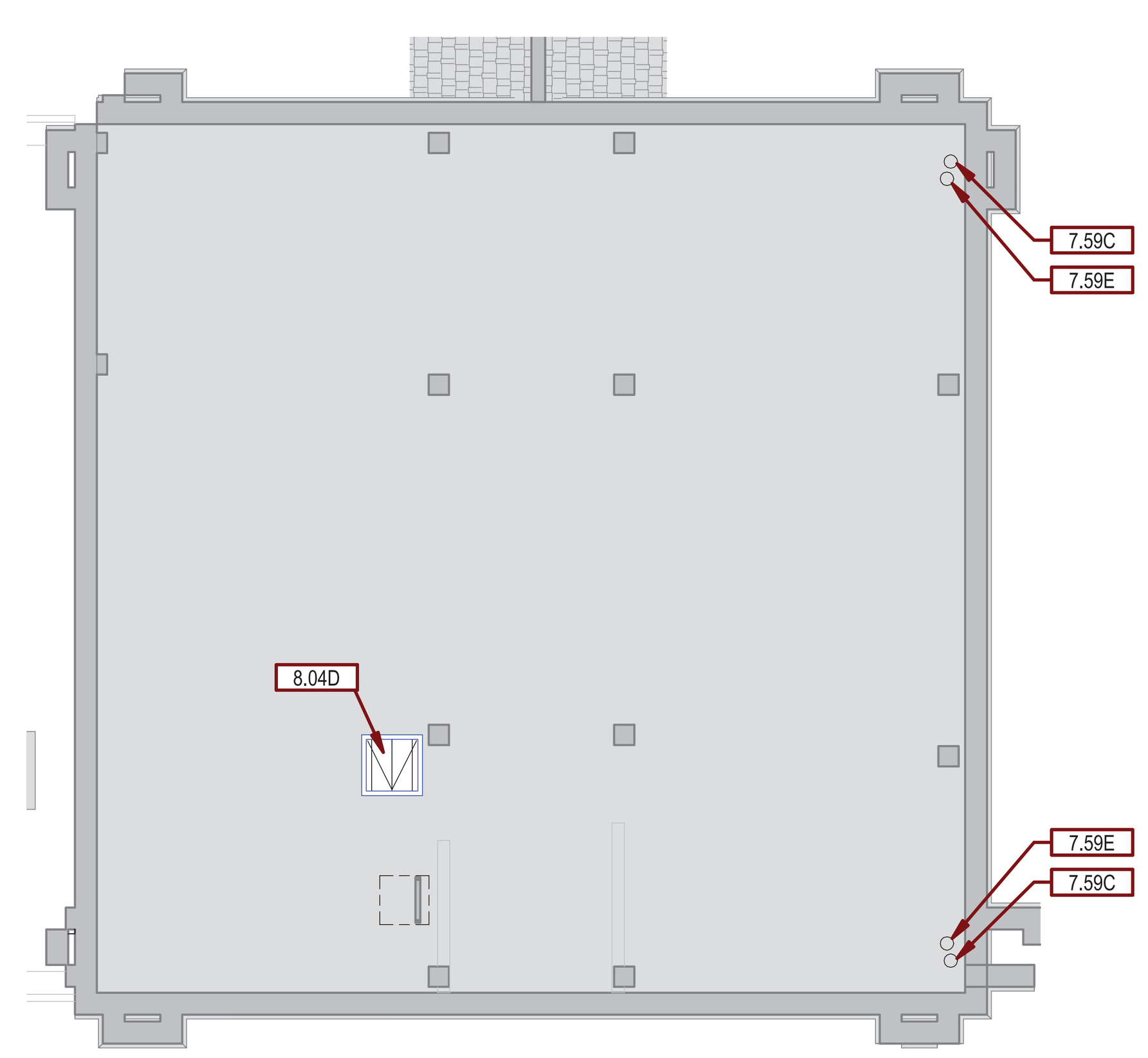
C1 4TH LEVEL FLOOR PLAN - N
1/8" = 1'-0"
NORTH



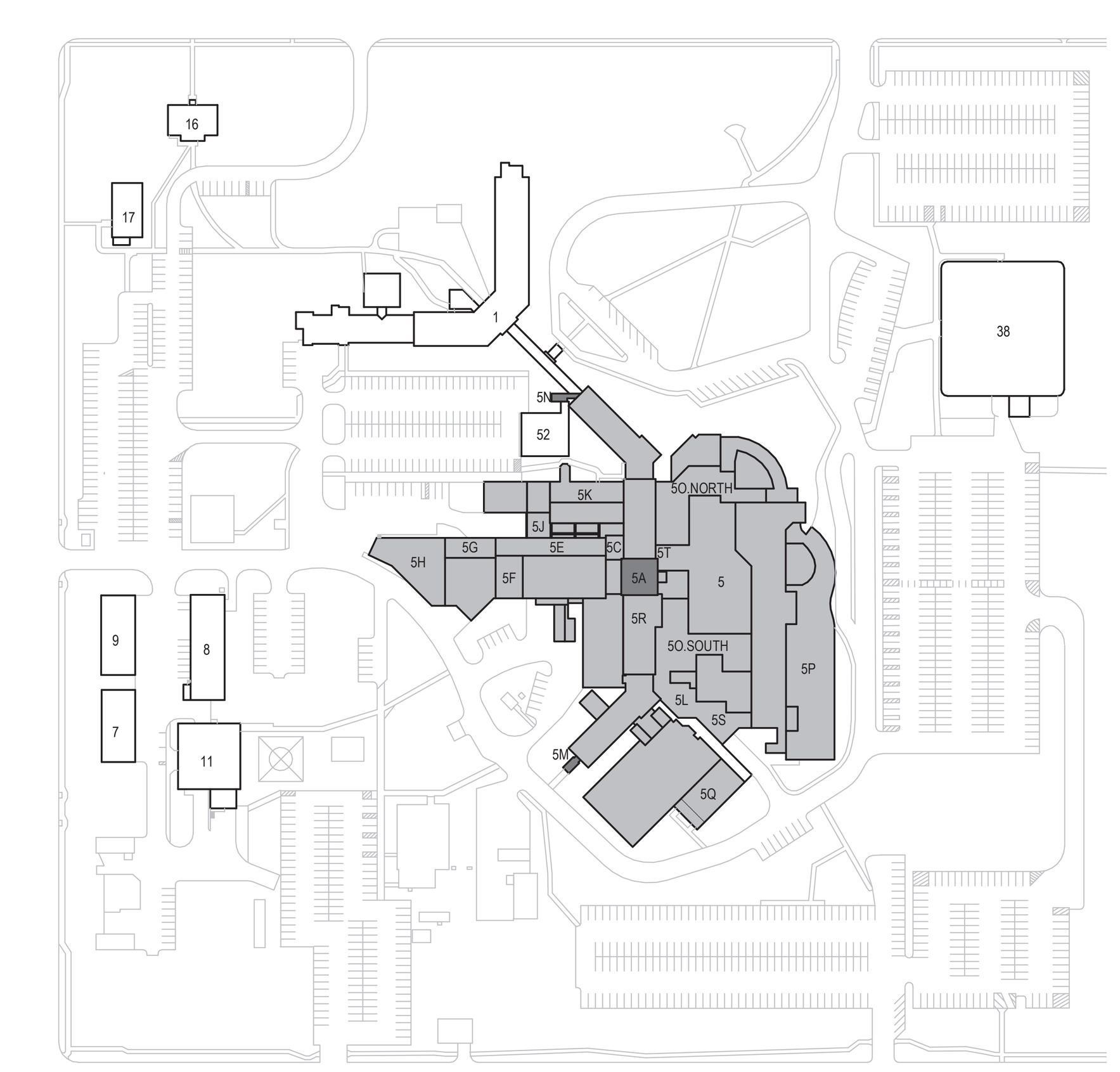
C4 8TH LEVEL FLOOR PLAN - A
1/8" = 1'-0"
NORTH



F1 7TH LEVEL PLAN - DEMOLITION - A
1/8" = 1'-0"
NORTH



F4 7TH LEVEL FLOOR PLAN - A
1/8" = 1'-0"
NORTH



CAMPUS BUILDING KEY PLAN
NORTH

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT REG. NO. 9771 TODD RANDALL STONE SOUTH DAKOTA
9-15-23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

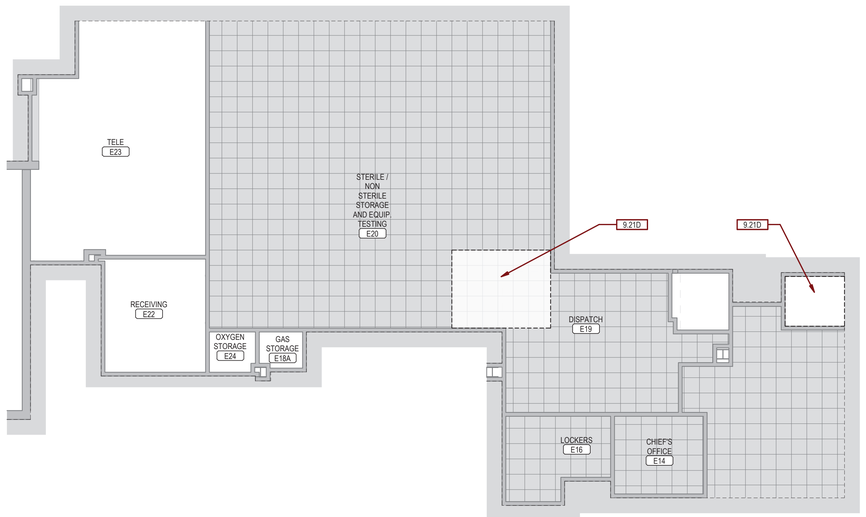
Drawing Title	Phase	Project Title	Project Number
ARCHITECTURAL - FLOOR PLAN - A, M, N	CONSTRUCTION DOCUMENTS	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	VA #438-22-600 SGA #221926
Approved:		Location: SIOUX FALLS, SOUTH DAKOTA	Building Number: 05
		Issue Date: 09-15-2023; Checked: BH; Drawn: MA	Drawing Number: 05. AE101

VA FORM 08 - 6231
C:_SGA Revit Local\BUILDING 05_MichaelAlb.rvt
9/14/2023 11:22:34 AM

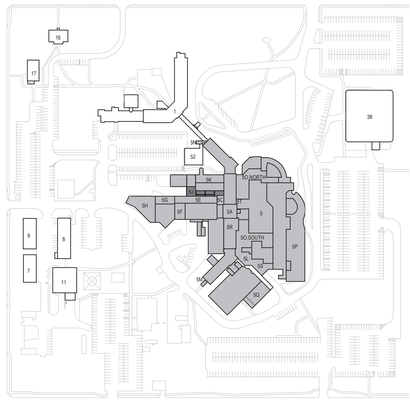
GENERAL RCP NOTES:

A. ANY DISCREPANCIES FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND THE OWNER BEFORE PROCEEDING WITH ALL THE WORK.
B. ALL ITEMS INSTALLED IN CEILINGS ARE TO BE CENTERED AND /OR SYMMETRICAL ON THE CENTERLINE OF ROOMS AND CENTERED IN TILES.
C. REFLECTED CEILING PLANS SHOW LOCATIONS OF ITEMS THAT ARE ARCHITECTURALLY SIGNIFICANT ONLY. MECHANICAL AND ELECTRICAL ITEMS INDICATED ARE FOR REFERENCE ONLY. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS.

KEYNOTES_SGA	
Key Value	Keynote Text
9.21D	REMOVE AND REINSTALL EXISTING APC CEILING PANELS, GRID, AND ASSOCIATED CEILING FIXTURES AS REQD FOR INSTALLATION OF NEW ORDS AND PIPING - REF MEP FOR ADDL INFO.



NORTH E4 **GROUND LEVEL REFLECTED CEILING PLAN - J**
1/8" = 1'-0"



NORTH **CAMPUS BUILDING KEY PLAN**

Revision#	Description	Date:

C:\...\SGA Revit Local\BUILDING 05_MichaelAlb.rvt

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT REG. NO. 9711 TODD A. HOAK SOUTH DAKOTA 9-15-23

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - REFLECTED CEILING PLAN - J	Phase: CONSTRUCTION DOCUMENTS	Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	Project Number: VA #438-22-600 SGA #221926
			Building Number: 05
Approved:		Location: SIOUX FALLS, SOUTH DAKOTA	Drawing Number: 05. AE113
		Issue Date: 09-15-2023 / Checked: BH / Drawn: MA	

VA FORM 08 - 6231

9/14/2023 11:22:35 AM

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

GROUND LEVEL REFLECTED CEILING PLAN - L, O.SOUTH

F4 1/8" = 1'-0"

NORTH

GENERAL RCP NOTES:

A. ANY DISCREPANCIES FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND THE OWNER BEFORE PROCEEDING WITH ALL THE WORK.

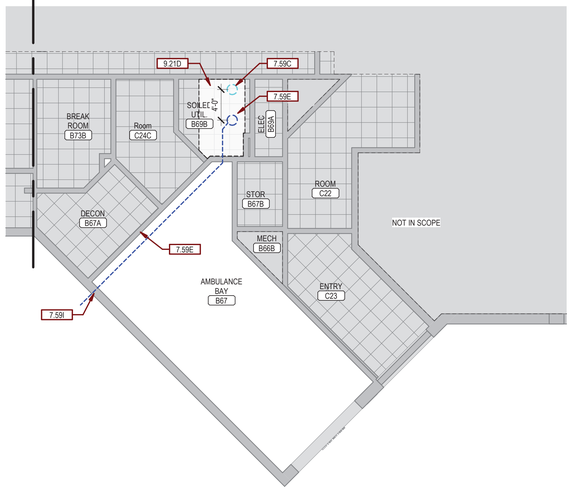
B. ALL ITEMS INSTALLED IN CEILINGS ARE TO BE CENTERED AND /OR SYMMETRICAL ON THE CENTERLINE OF ROOMS AND CENTERED IN TILES.

C. REFLECTED CEILING PLANS SHOW LOCATIONS OF ITEMS THAT ARE ARCHITECTURALLY SIGNIFICANT ONLY. MECHANICAL AND ELECTRICAL ITEMS INDICATED ARE FOR REFERENCE ONLY. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS.

KEYNOTES_SGA	
Key Value	**Keynote Text**
7.59C	EXISTING RD AND PIPING - REF. MECH.
7.59E	NEW ORD AND PIPING - REF. MECH.
7.59I	NEW STORM DRAIN LAMB'S TONGUE - REF. MECH.
7.59N	REMOVE EXISTING RD - REF. MECH.
9.21D	REMOVE AND REINSTALL EXISTING APC CEILING PANELS, GRID, AND ASSOCIATED CEILING FIXTURES AS REQD FOR INSTALLATION OF NEW ORDS AND PIPING - REF MEP FOR ADDL INFO.

EXISTING STORM PIPING - REF MECH

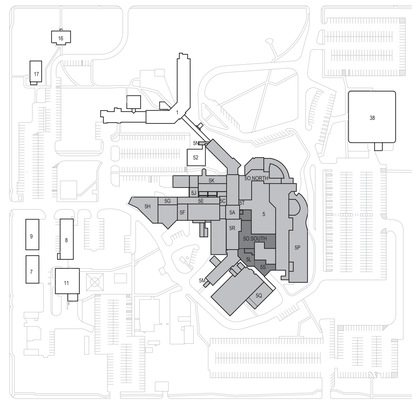
NEW STORM PIPING - REF MECH



GROUND LEVEL REFLECTED CEILING PLAN - S

F7 1/8" = 1'-0"

NORTH



CAMPUS BUILDING KEY PLAN

NORTH

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT REG. NO. 9711 TODD M. DOAL SOUTH DAKOTA 9-15-23

Office of Construction and Facilities Management

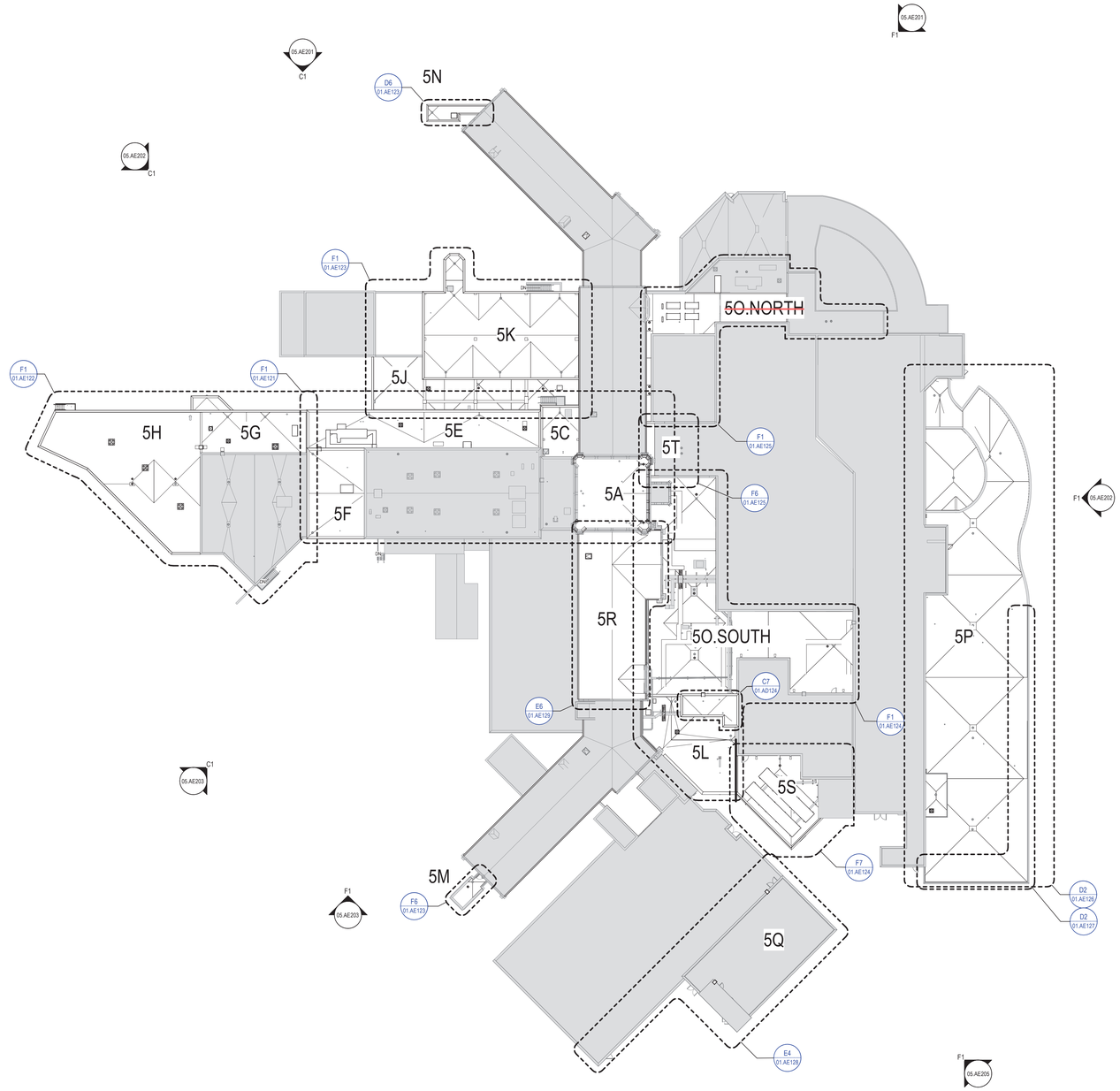
VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - REFLECTED CEILING PLAN - L, O.SOUTH, S
Phase	CONSTRUCTION DOCUMENTS
Approved:	
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	09-15-2023
Checked	BH
Drawn	MA
Project Number	VA #438-22-600 SGA #221926
Building Number	05
Drawing Number	05. AE115

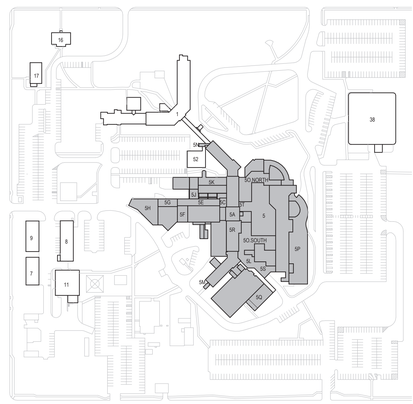
C:_SGA Revit Local\BUILDING 05_MichaelAb.rvt

9/14/2023 11:22:37 AM

VA FORM 08 - 6231



NORTH F1 **ROOF PLAN - OVERALL**
1/32" = 1'-0"



NORTH **CAMPUS BUILDING KEY PLAN**

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Associates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD
STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP
REGISTERED ARCHITECT
REG. NO. 9771
TODD MADSEN
SOUTH DAKOTA
9-15-23

Office of Construction and Facilities Management

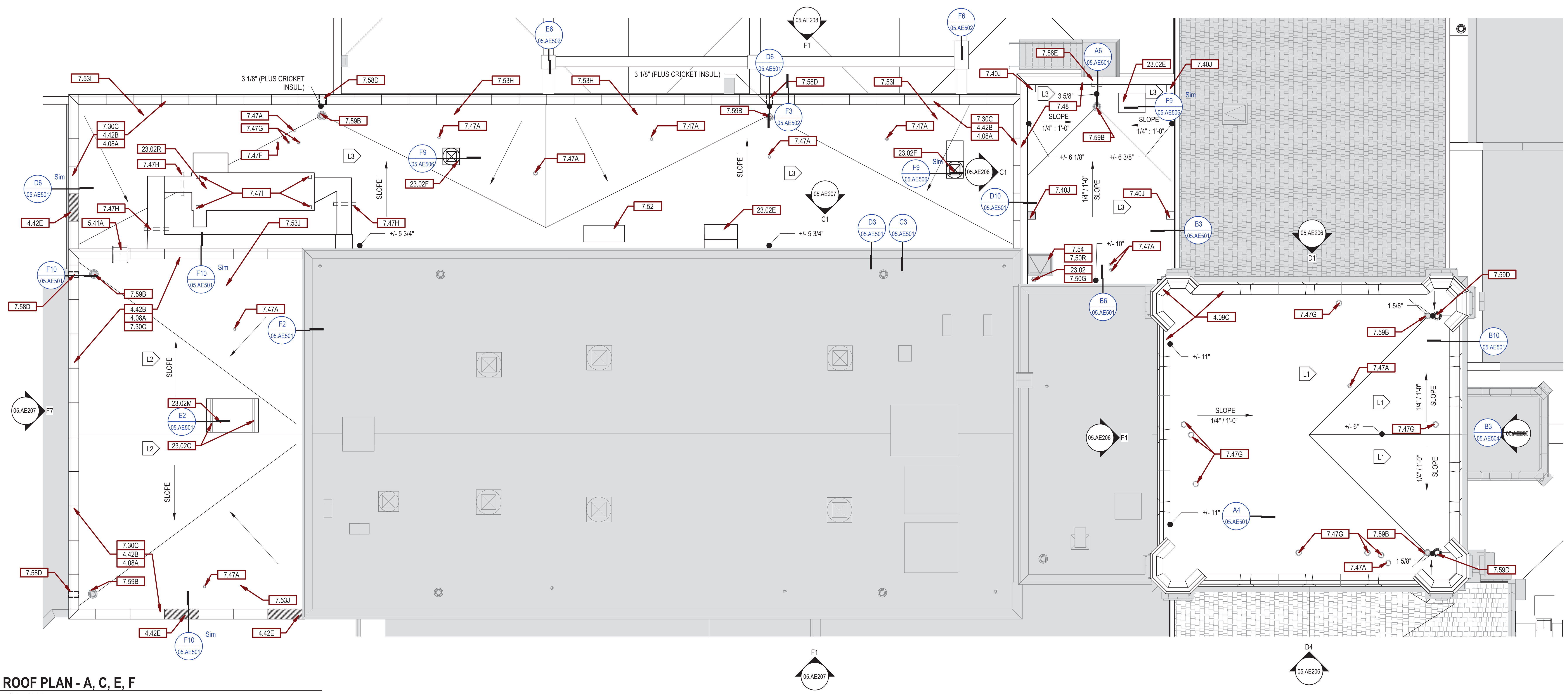
VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - ROOF PLAN - OVERALL
Phase	CONSTRUCTION DOCUMENTS
Project Title	SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
Project Number	VA #438-22-600 SGA #221926
Building Number	05
Approved:	
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	09-15-2023
Checked	BH
Drawn	MA
Drawing Number	05. AE120

GENERAL ROOF NOTES:

A. ROOF SHALL MATCH EXISTING SLOPE U.O.N.

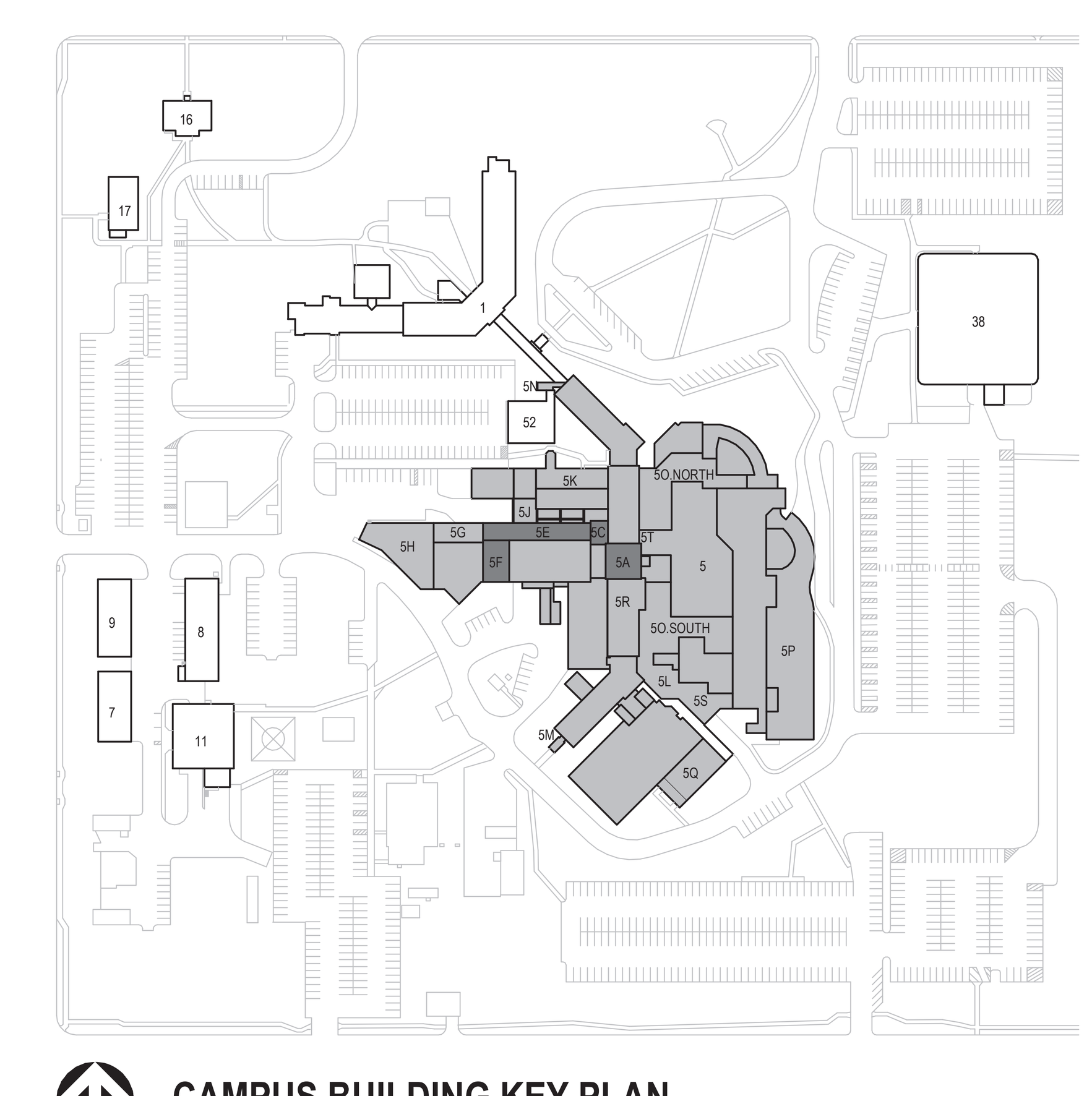
KEYNOTES_SGA	
Key Value	Keynote Text
4.08A	REPOINT INSIDE F.O. BRK PARAPET. PROVIDE FLUSH MORTAR JOINTS FOR INSTALLATION OF MEMB FLASHING. ASSUME REPLACEMENT OF APPROX 10% OF BRK W/ NEW. BRK COLOR DOES NOT NEED TO MATCH EXIST.
4.09C	CUT OUT EXISTING MORTAR AND SLNT JOINTS IN LIMESTONE CAPSTONES AND INSTALL NEW BACKER ROD AND SLNT.
4.42B	CLEAN SALVAGED LIMESTONE PARAPET CAPS AND REINSTALL W/ NEW S.S. FLASHING. (TYP U.N.O)
4.42E	NEW LIMESTONE PARAPET CAP TO MATCH EXISTING W/ NEW S.S. FLASHING.
5.41A	REMOVE AND REINSTALL EXISTING ACCESS LADDER AS REQD FOR ROOFING WORK.
7.30C	RAKE OUT LIMESTONE CAP HEAD JOINTS AND INSTALL BACKER ROD AND SLNT.
7.40J	PROVIDE ROOFING MEMB FLASHING UP EXISITNG COL CAP CURBS W/ PREFINISHED MTL CAP FLASHING ON TOP. PROVIDE 2" HEMMED DRIP EDGES ON CAP FLASHING AND SECURE W/ FASTENERS AND NEOPRENE GASKET/WASHER.
7.47A	EXISTING VTR. PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.
7.47F	EXISTING CONDUIT - PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.
7.47G	EXISTING CONDUIT/PIPING - PROVIDE POURABLE SEALER POCKET FLASHING.
7.47H	REPLACE MEMB FLASHING ON EXISTING CURBS. REMOVE/REINSTALL UNISTRUT SUPPORTS AS REQD. INSTALL ADDITIONAL LAYER OF ROOFING MEMB UNDER BRG LOCATIONS (PROVIDE TEMPORARY SUPPORT OF DUCTS DURING WORK).
7.47I	PROVIDE MEMB FLASHING AT EXISTING SUPPORT FRAME PENETRATIONS.
7.48	PREFINISHED MTL COPING AND KEEPER STRIP.
7.50G	MEMB FLASHING.
7.50R	EXTEND ROOFING MEMB UP CURB AND UNDER COUNTERFLASHING.
7.52	REMOVE AND SALVAGE EXISTING CURB AND SHT MTL CAP. INSTALL TREATED WOOD BLKG AS REQD TO RAISE CURB TO 8" MIN ABV. ROOFING SURFACE, INSTALL ROOFING MEMB FLASHING ON CURB AND REINSTALL SHT MTL CAP.
7.53H	16'-0" WIDE TAPERED ISO RIGID INSUL CRICKETS - 1/2" : 12".
7.53I	18'-0" WIDE TAPERED ISO RIGID INSUL CRICKETS - 1/2" : 12".
7.53J	20'-0" WIDE TAPERED ISO RIGID INSUL CRICKETS - 1/2" : 12".
7.54	EXISTING ROOF ACCESS HATCH AND CURB TO REMAIN.
7.58D	PREFINISHED MTL THRU-WALL SCUPPER IN EXISTING OPENING. FIELD VERIFY EXISTING SIZE.
7.58E	PREFINISHED MTL THRU-WALL SCUPPER IN EXISTING MTL STUD / EIFS WALL
7.59B	EXISTING RD TO REMAIN (TYP)
7.59D	EXISTING ORD TO REMAIN
23.02	EXISTING DUCT TO REMAIN - REF. MECH.
23.02E	EXISTING INTAKE HOOD, MTL CURB COUNTERFLASHING, AND CURB TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF MEMB FLASHING - REF MEP. RAISE EXISTING CURB W/ TREATED WOOD BLKG TO 8" MIN. ABV. ROOFING MEMB.
23.02F	EXISTING PRV, MTL CURB COUNTERFLASHING, AND CURB TO BE REMOVED & REINSTALLED AS REQD FOR REPLACEMENT OF MEMB FLASHING - REF MEP. RAISE EXISTING CURB W/ TREATED WOOD BLKG TO 8" MIN. ABV. ROOFING MEMB.
23.02M	EXISTING CHILLER, CURBS, AND MTL CURB CAP FLASHING TO BE REMOVED AND REINSTALLED AS REQD FOR REROOFING. RAISE CURBS WITH TREATED WOOD BLOCKING SO CURBS EXTEND 8" MIN ABOVE ROOFING , EXTEND MEMBRANE FLASHING OVER CURBS AND REISTALL MTL CAP FLASHING. - REF. MECH.
23.02O	NEW EQUIP CURB RAILS - REF. MECH.
23.02R	EXISTING MECH UNIT AND CURB TO REMAIN.



F1 ROOF PLAN - A, C, E, F
1/8" = 1'-0"

NORTH

F1 / 05.AE120



NORTH

CAMPUS BUILDING KEY PLAN

Revision#	Description	Date:

CONSULTANTS

CIVIL:
EHRHART GRIFFIN & ASSOCIATES
Ehrhart Griffin & Associates
601 N Minnesota Ave
Sioux Falls, SD 57104
Phone: 605-339-7215

STRUCTURAL:
ERA ERICKSEN ROED & ASSOCIATES
Ericksen Roed Associates
2550 University Ave W
Suite 423-S
St. Paul, MN 55402
Phone: 651-251-7570

MEP:
DUNHAM
Dunham Asssociates, Inc.
50 South Sixth St
Suite 1100
Minneapolis, MN 55402
Phone: 612-465-7550

ARCHITECT OF RECORD

STONE GROUP ARCHITECTS
Stone Group Architects, Inc.
600 East 7th Street
Sioux Falls, SD 57103
Phone: 605-271-1144

STAMP

REGISTERED ARCHITECT
9-15-23

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - ROOF PLAN - A, C, E, F

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location: SIOUX FALLS, SOUTH DAKOTA

Issue Date: 09-15-2023 | Checked: BH | Drawn: MA

Project Number: VA #438-22-600 SGA #221926

Building Number: 05

Drawing Number: 05. AE121

VA FORM 08 - 6231

9/14/2023 11:22:41 AM

C:_SGA Revit Local\BUILDING 05_MichaelAlb.rvt