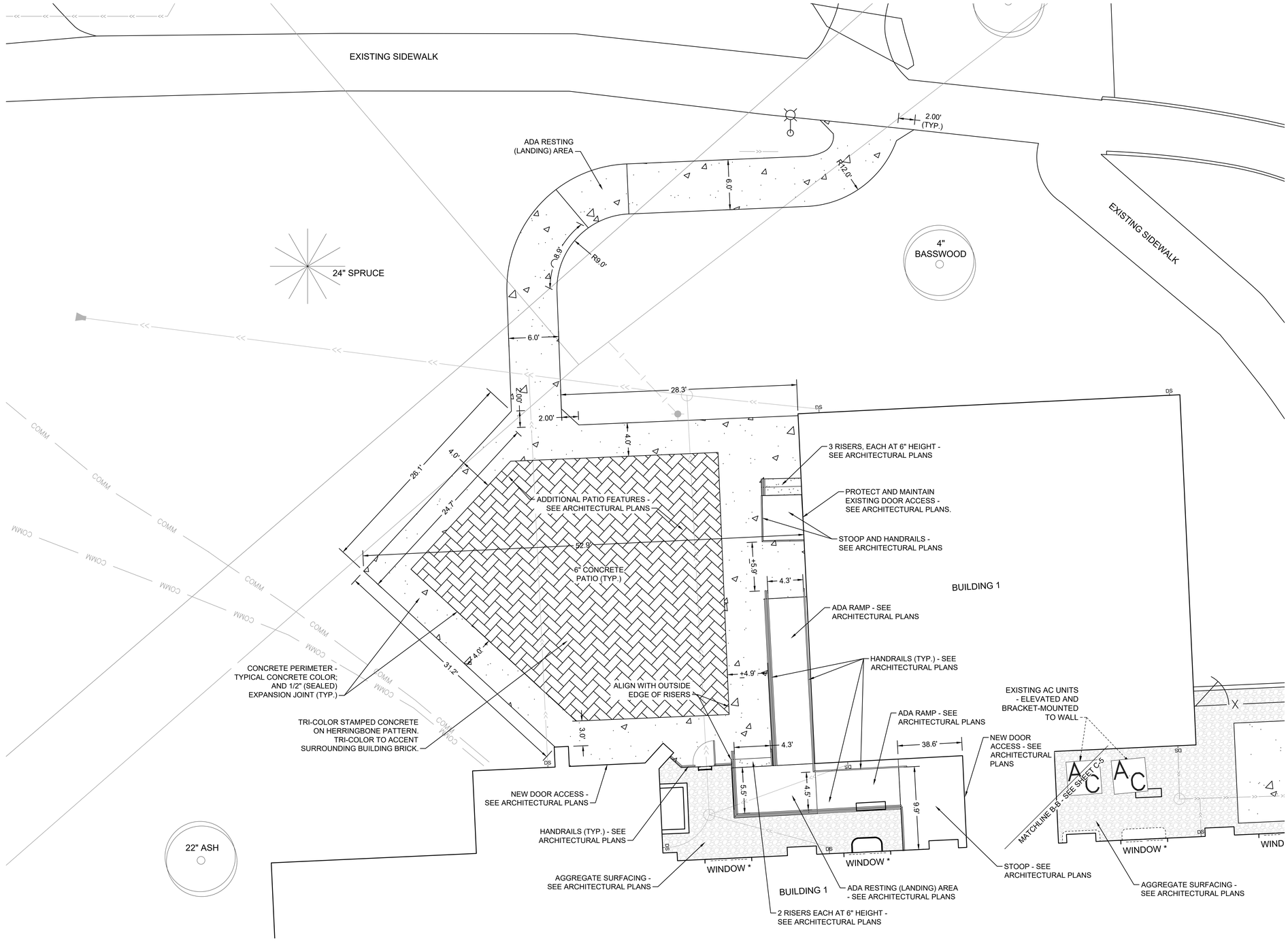

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- ADJACENT PROPERTY
- BUILDING SETBACKS
- PARKING SETBACK
- DRAINAGE AND UTILITY EASEMENT
- PROPOSED CONCRETE C&G
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- NO PARKING ZONE
- HANDICAP STALL DESIGNATION
- 16 NUMBER OF PARKING STALL IN SECTION

Revisions:	Date:

CONSULTANT

engineering discipline <EDIT TEXT>:
Consultant firm name
Consultant firm street address
Consultant firm city, state, zip code
Consultant firm phone number
Consultant POC

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13605 1st Ave. N. #100 Plymouth, MN 55441
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Anderson Engineering of Minnesota, LLC | Proj # 15522

STAMP

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JAY RONALD KOESTER
PRINT NAME
SIGNATURE
44433
REGISTRATION NUMBER
06/17/2020
DATE

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE PLAN - PATIO AREA	Phase: CONSTRUCTION DOCUMENTS	Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM	Project Number: 438-19-301
Approved: Project Director		Location: Sioux Falls, South Dakota	Building Number: 1 and 5
		Issue Date: June 17, 2020 / Checked: JRK / Drawn: JPR	Drawing Number: C-4

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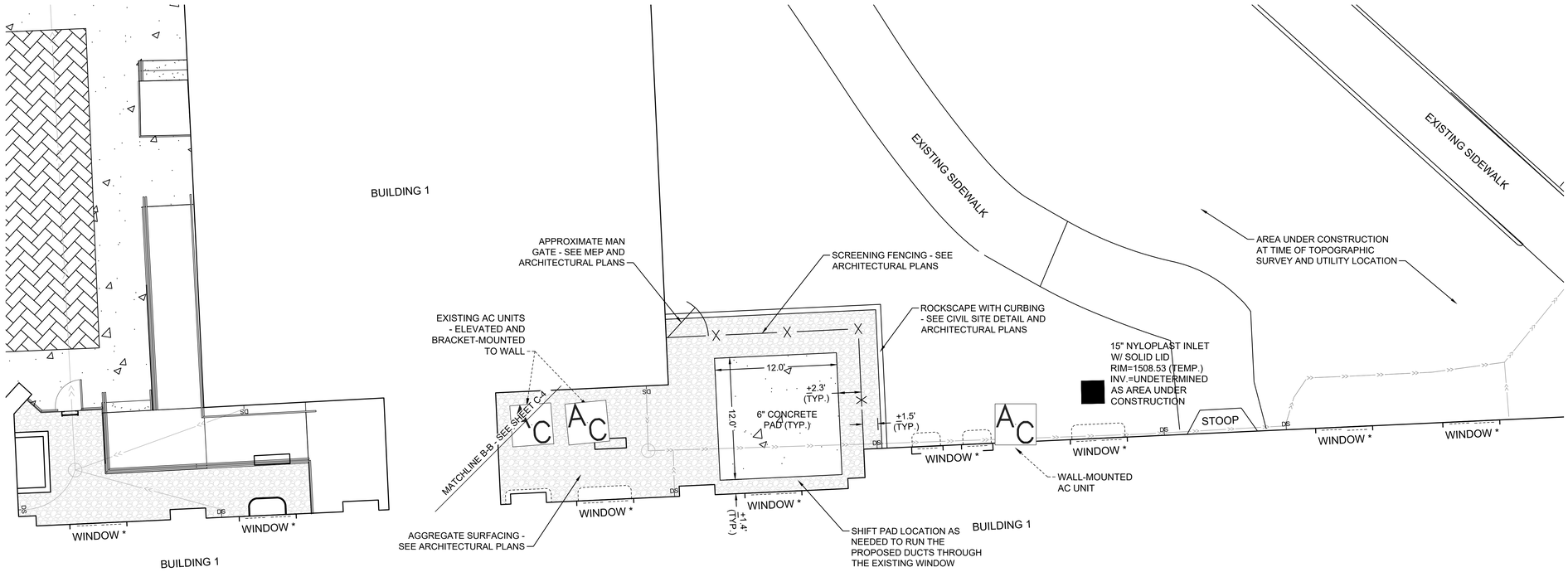
VA FORM 08 - 6231



* WINDOW TOP: 1510.5
WINDOW BOTTOM: 1508.6
** WINDOW TOP: 1510.5
WINDOW BOTTOM: 1507.5

NOTE: SHOWN DISTANCE BETWEEN PROPOSED CONCRETE PAD AND PROPOSED FENCING SHALL BE VERIFIED WITH ACTUAL MANUFACTURER OF SUPPLIED AIR HANDLER TO ENSURE ADEQUATE AIR FLOW.

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- ADJACENT PROPERTY
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- PROPOSED CONCRETE C&G
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- PROPOSED CONCRETE PAVEMENT
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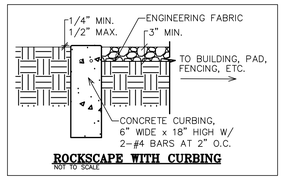
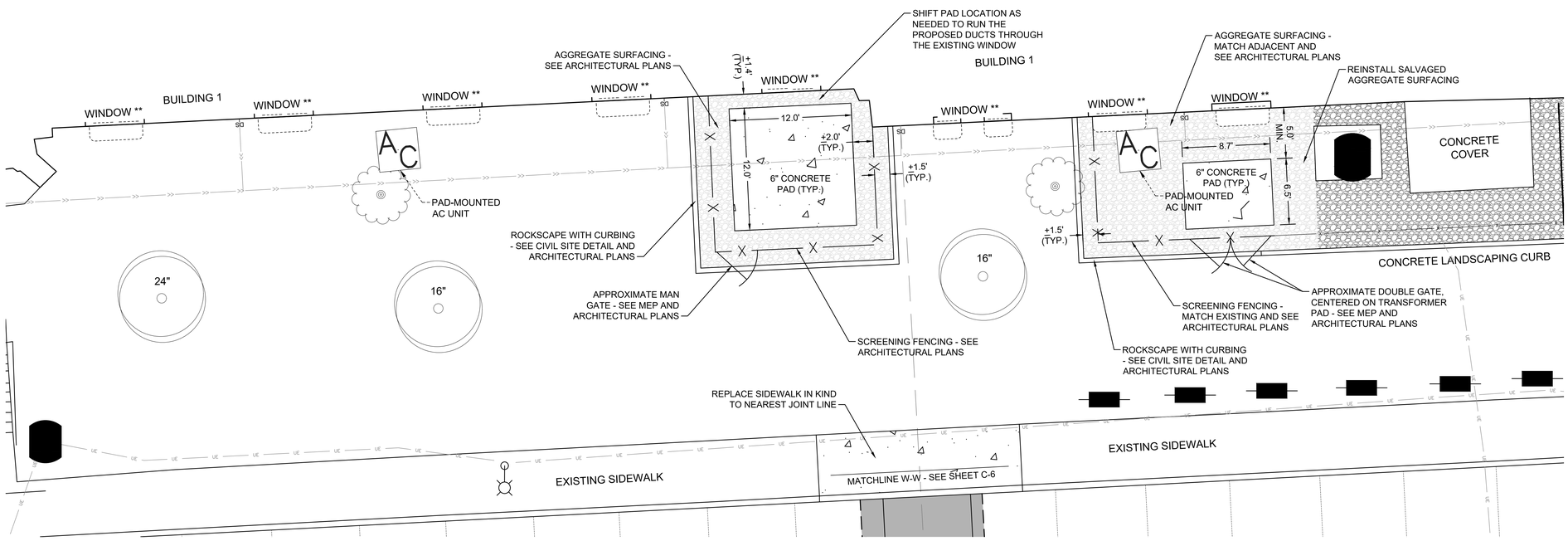
- HANDICAP STALL DESIGNATION
- [16] NUMBER OF PARKING STALL IN SECTION



ROCKSCAPE WITH CURBING
NOT TO SCALE



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VA U.S. Department of Veterans Affairs

Drawing Title	SITE PLAN - AIR HANDLER AREA
Phase	CONSTRUCTION DOCUMENTS
Approved: Project Director	
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Location	Sioux Falls, South Dakota
Issue Date	June 17, 2020
Checked	JRK
Drawn	JPR
Project Number	438-19-301
Building Number	1 and 5
Drawing Number	C-5

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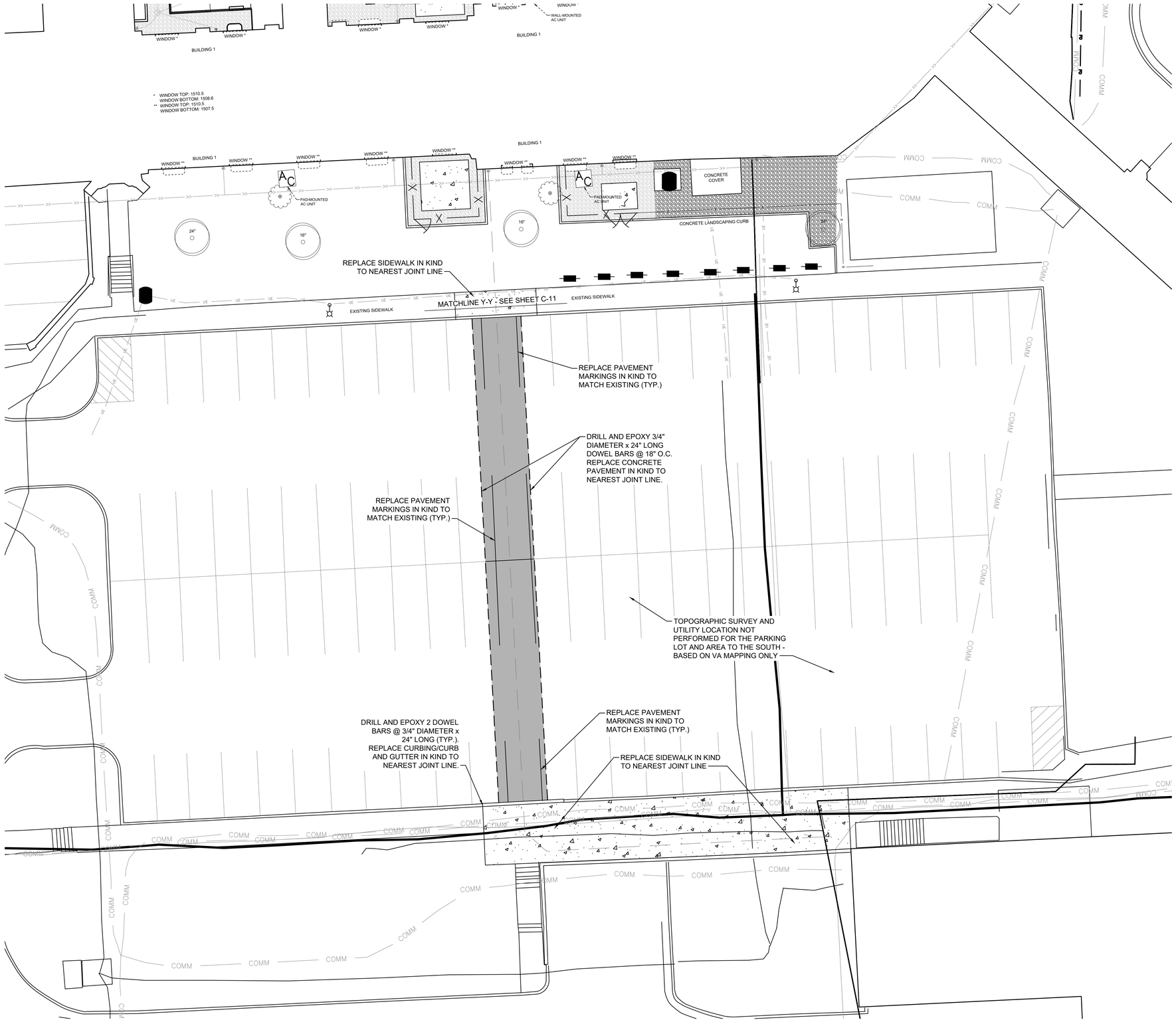

LEGEND

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- CONSTRUCTION LIMITS
- ADJACENT PROPERTY
- BUILDING SETBACKS
- PARKING SETBACK
- DRAINAGE AND UTILITY EASEMENT
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- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- NO PARKING ZONE
- HANDICAP STALL DESIGNATION
- 16 — NUMBER OF PARKING STALL IN SECTION

N

0 5' 10'

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE PLAN - GAS LINE AND PARKING AREA

Phase: CONSTRUCTION DOCUMENTS

Approved: Project Director

Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM

Location: Sioux Falls, South Dakota

Issue Date: June 17, 2020 | **Checked:** JRK | **Drawn:** JPR

Project Number: 438-19-301

Building Number: 1 and 5

Drawing Number: C-6

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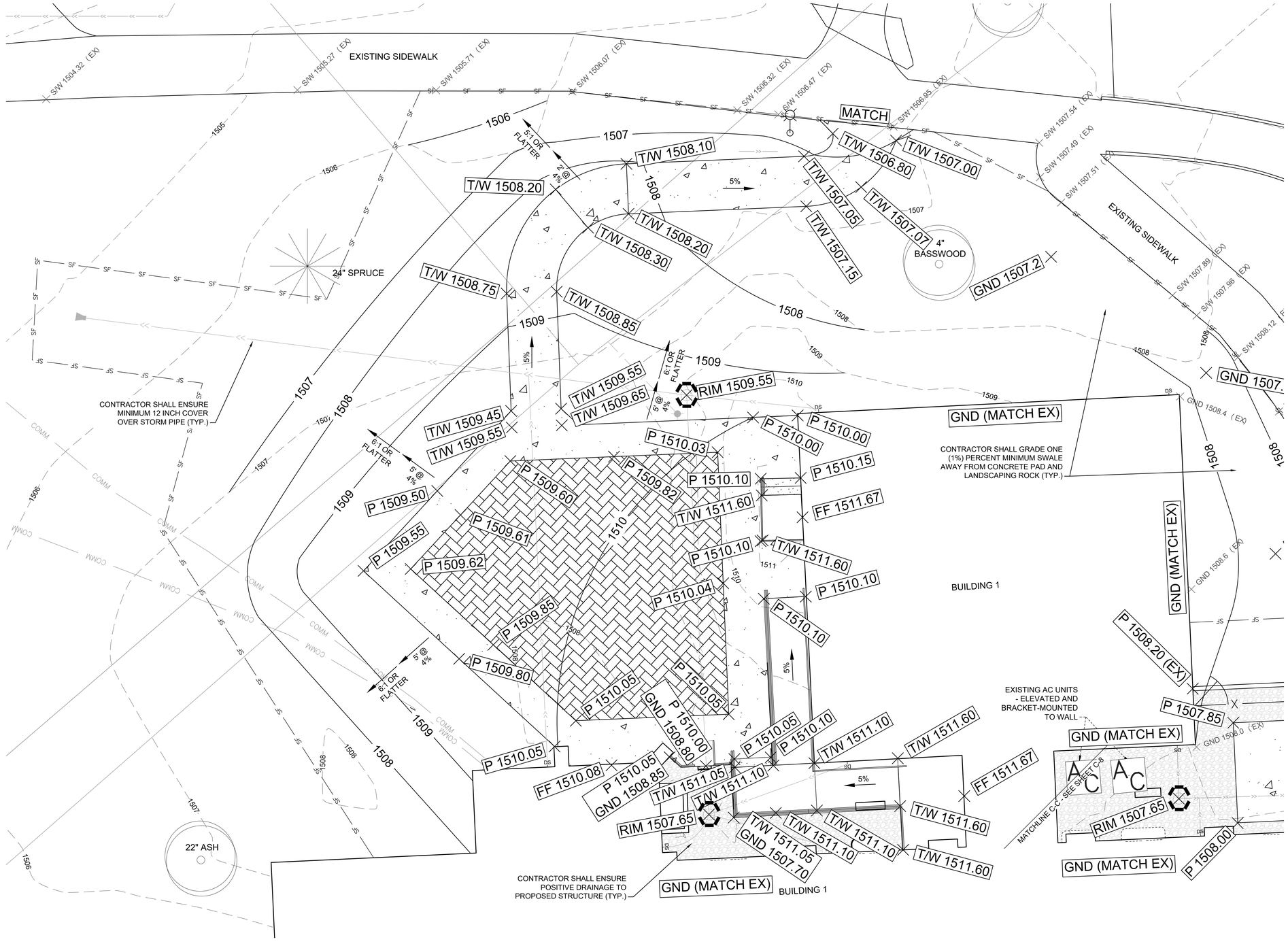

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING SPOT ELEVATION
- SOIL BORING LOCATION
- DRAINAGE ARROW
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE C&G
- TIP OUT CURB
- SILT FENCE
- INLET SEDIMENT PROTECTION
- ROCK CONSTRUCTION ENTRANCE
- SPOT ELEVATION
- FLOW LINE OF CURB
- HIGH POINT / FLOW LINE OF CURB
- RIM ELEVATION
- TOP OF WALL
- BOTTOM OF WALL

ABBREVIATIONS

CC	CONCRETE
FF	FINISHED FLOOR
GND	GROUND
P	PAVEMENT
S/W	SIDEWALK
T/W	TOP OF WALL

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0 5' 10'

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Drawing Title: GRADING AND EROSION CONTROL PLAN - PATIO AREA

Phase: CONSTRUCTION DOCUMENTS

Approved: Project Director

Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM

Location: Sioux Falls, South Dakota

Issue Date: June 17, 2020 | **Checked:** JRK | **Drawn:** JPR

Project Number: 438-19-301

Building Number: 1 and 5

Drawing Number: C-7

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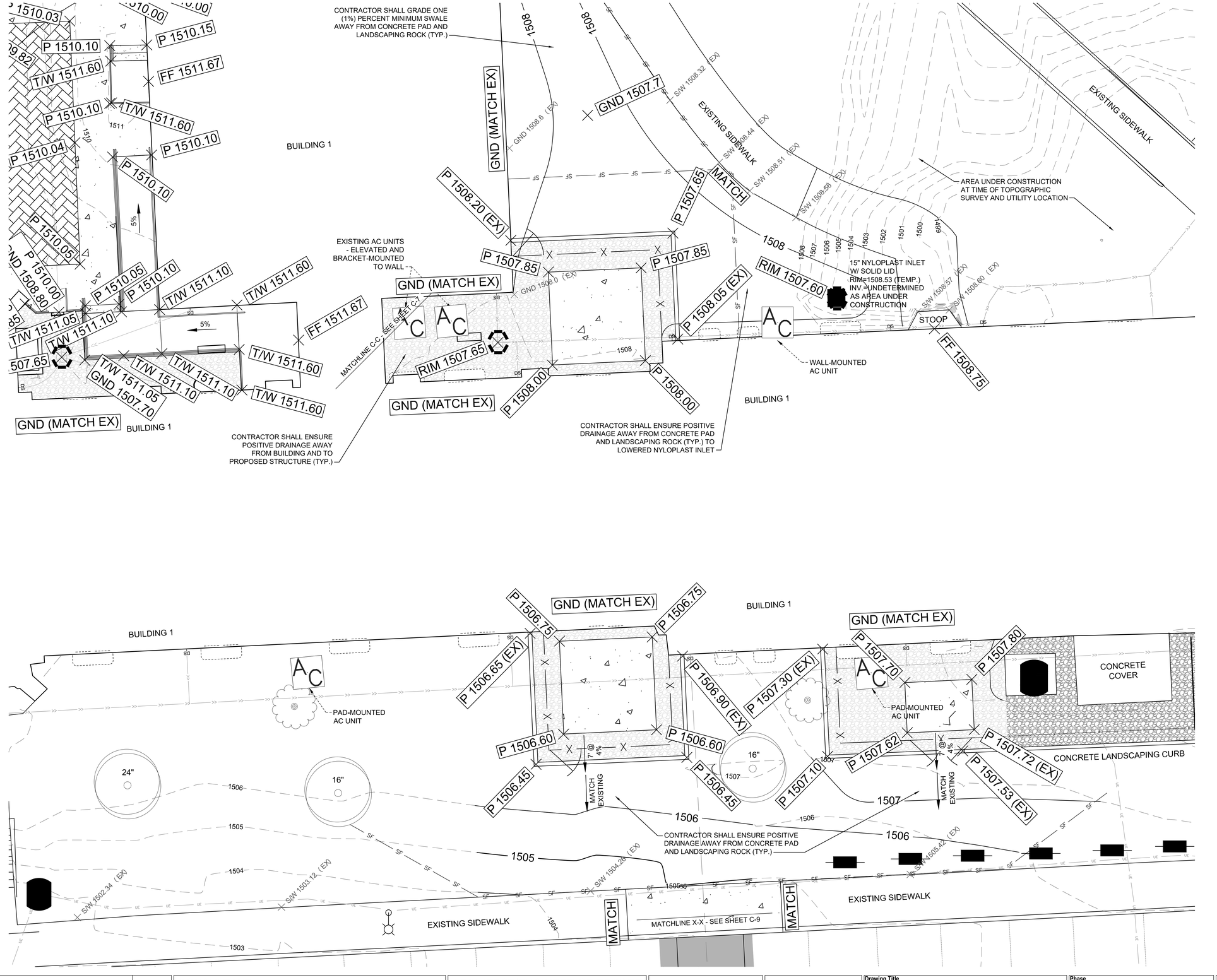

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
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VA U.S. Department of Veterans Affairs

Drawing Title	GRADING AND EROSION CONTROL PLAN - AIR HANDLER AREA
Phase	CONSTRUCTION DOCUMENTS
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Project Number	438-19-301
Building Number	1 and 5
Location	Sioux Falls, South Dakota
Drawing Number	C-8
Approved: Project Director	
Issue Date	June 17, 2020
Checked	JRK
Drawn	JPR

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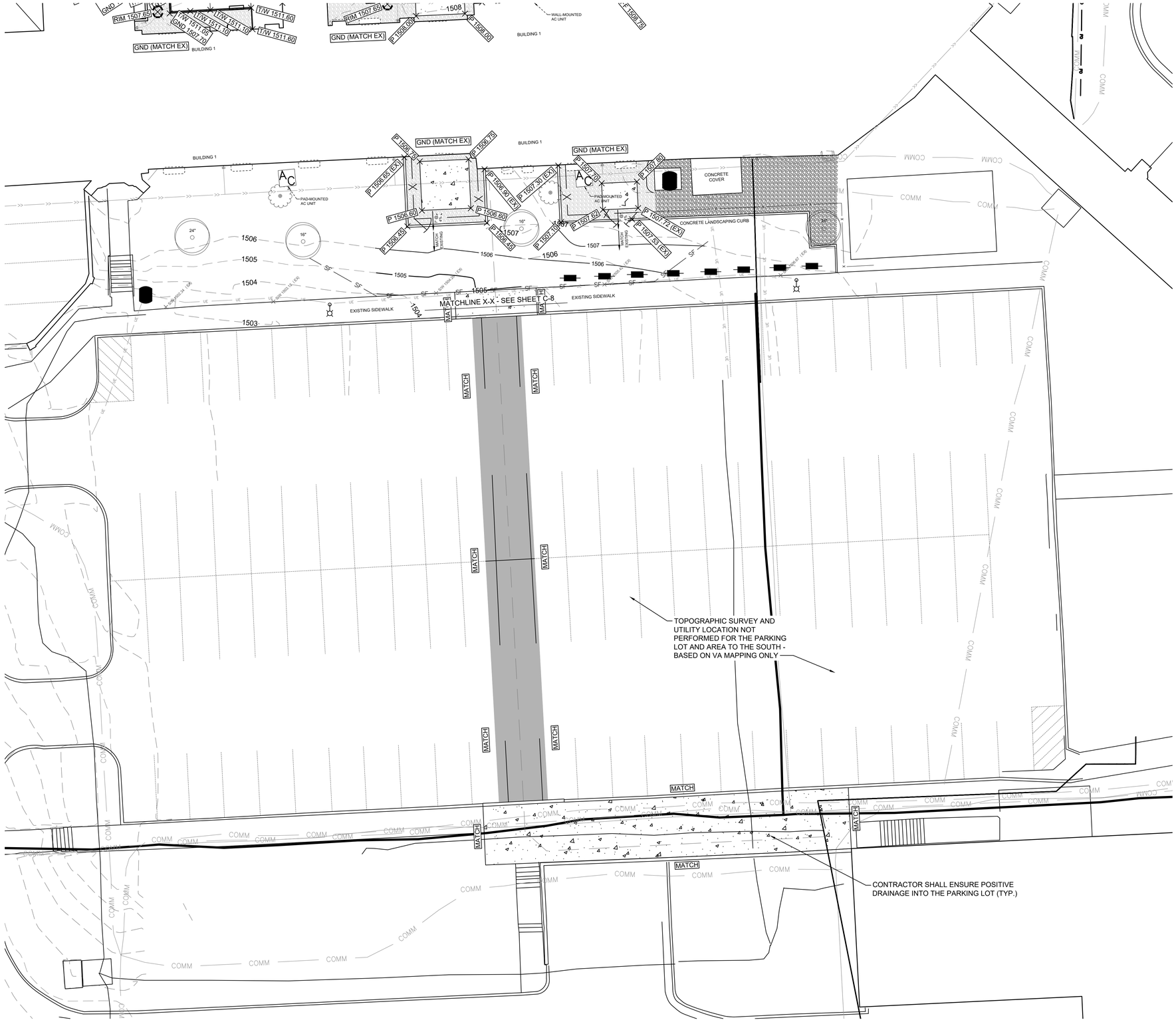

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
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Drawing Title: GRADING AND EROSION CONTROL PLAN - GAS LINE AND PARKING AREA

Phase: CONSTRUCTION DOCUMENTS

Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM

Location: Sioux Falls, South Dakota

Issue Date: June 17, 2020 | Checked: JRK | Drawn: JPR

Project Number: 438-19-301

Building Number: 1 and 5

Drawing Number: C-9

Approved: Project Director

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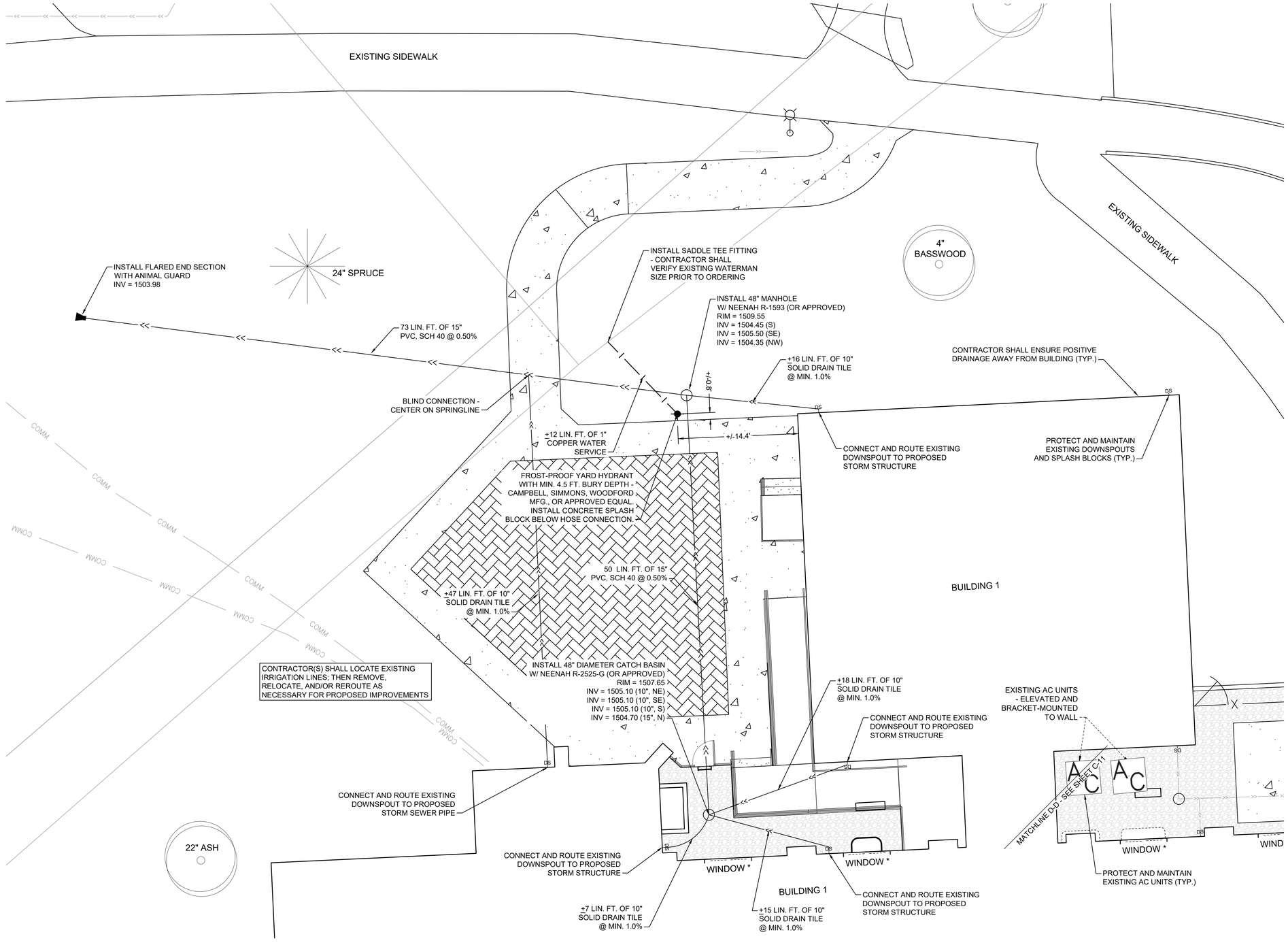

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED DRAINTILE
- PROPOSED WATERMAIN FITTING
- PROPOSED SANITARY MANHOLE AND CLEANOUT
- PROPOSED STORM INLETS
- FES W/ TRASH GUARD AND RIP RAP

Revisions:	Date:

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Drawing Title: UTILITY PLAN - PATIO AREA	Phase: CONSTRUCTION DOCUMENTS
Approved: Project Director	

Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM		Project Number: 438-19-301
		Building Number: 1 and 5
Location: Sioux Falls, South Dakota		Drawing Number: C-10
Issue Date: June 17, 2020	Checked: JRK	Drawn: JPR

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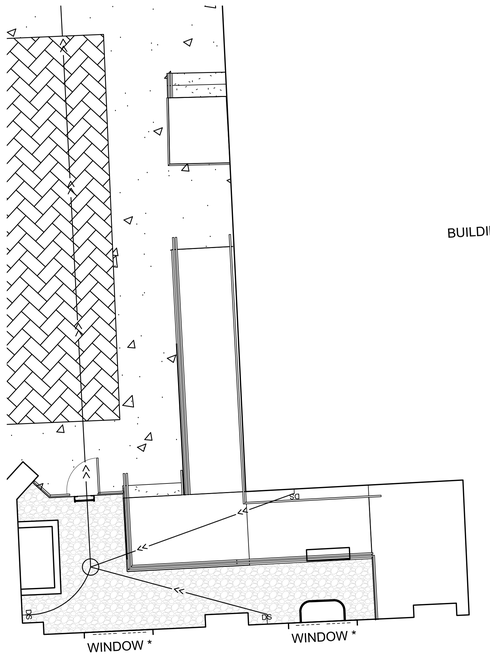

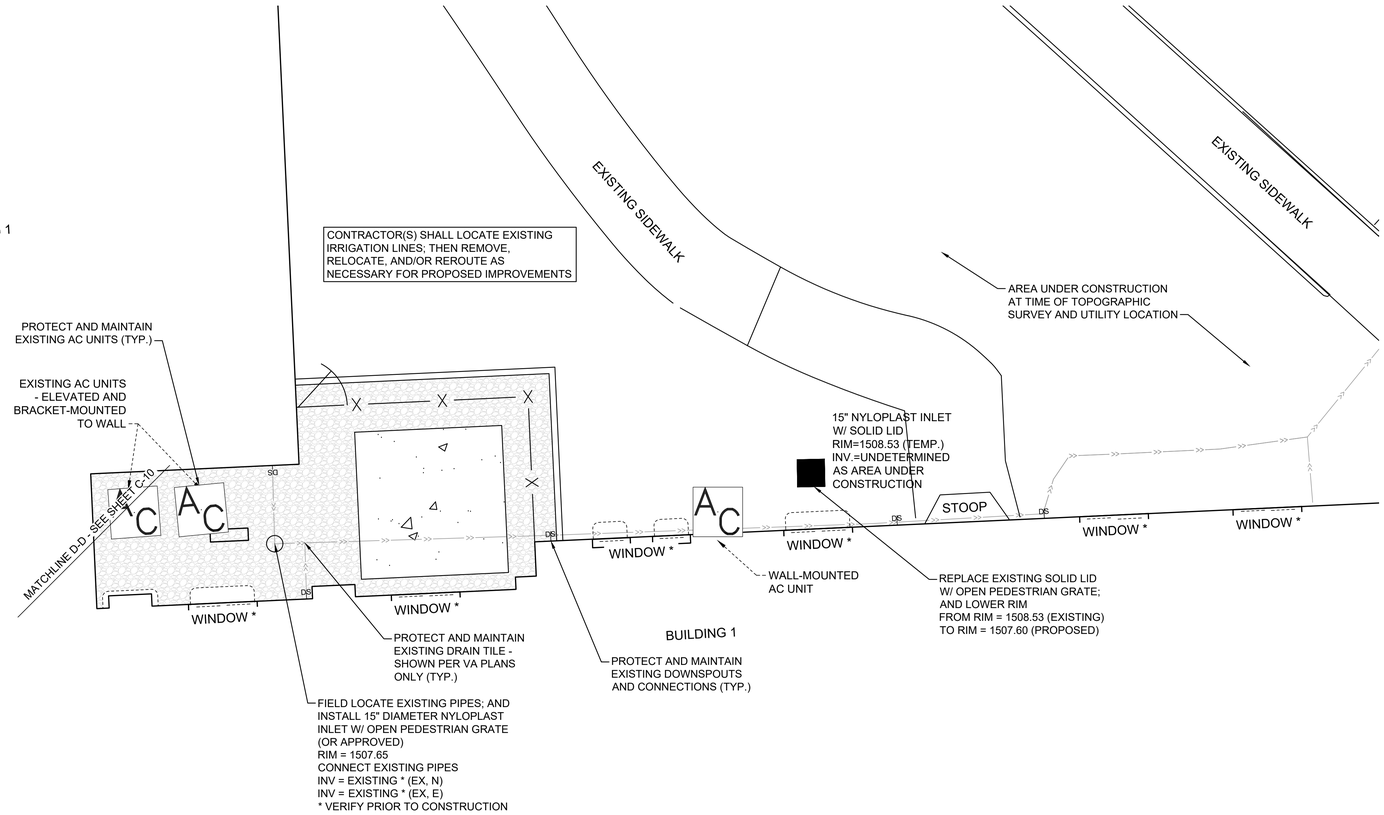

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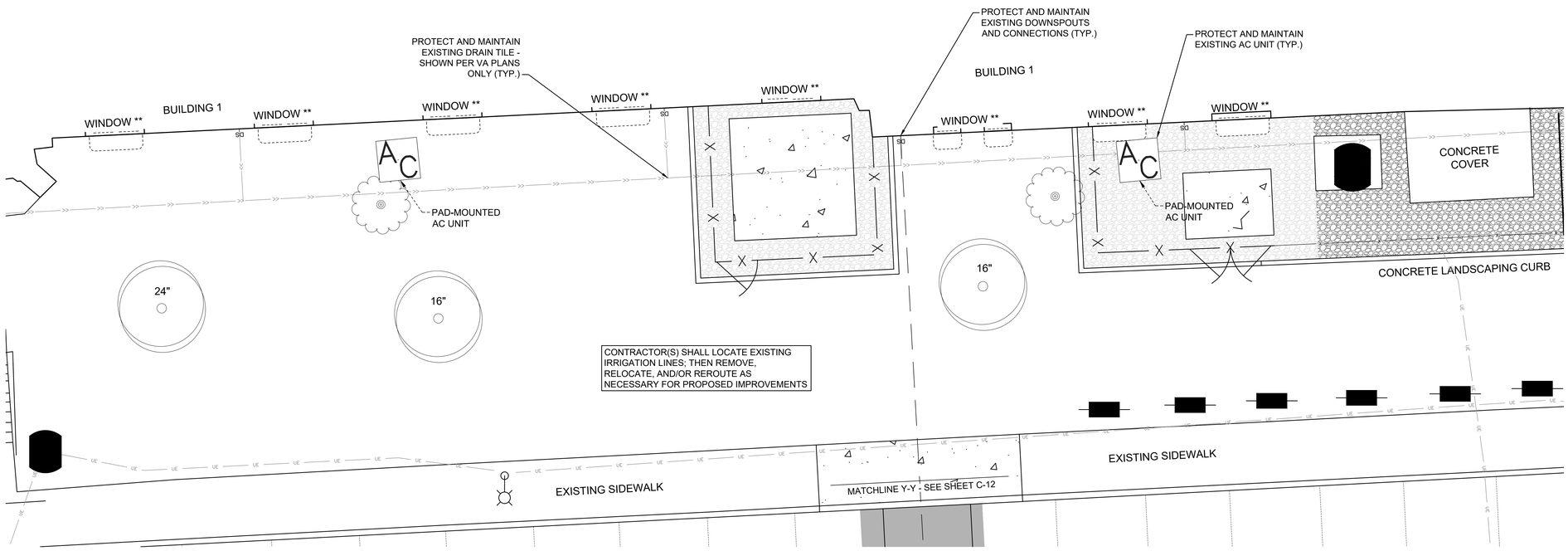

LEGEND

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Revisions:	Date:

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Drawing Title: UTILITY PLAN - AIR HANDLER AREA	Phase: CONSTRUCTION DOCUMENTS	Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM	Project Number: 438-19-301
Approved: Project Director		Location: Sioux Falls, South Dakota	Building Number: 1 and 5
		Issue Date: June 17, 2020 / Checked: JRK / Drawn: JPR	Drawing Number: C-11

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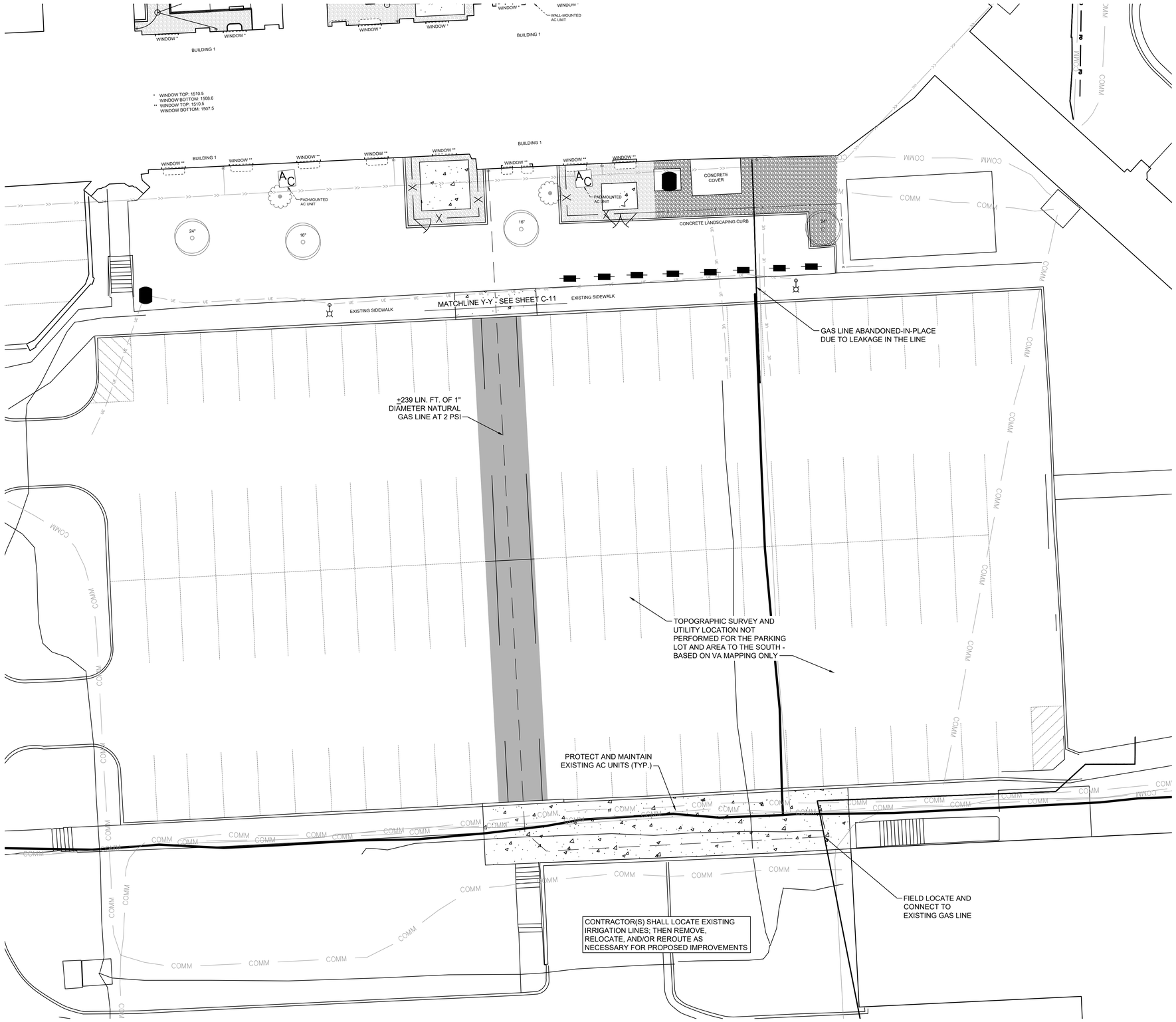

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- PROPOSED WATERMAIN FITTING
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- PROPOSED STORM INLETS
- FES W/ TRASH GUARD AND RIP RAP

N

0 10' 20'

Revisions:	Date:

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Drawing Title: UTILITY PLAN - GAS LINE AND PARKING AREA	Phase: CONSTRUCTION DOCUMENTS
Approved: Project Director	

Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM		Project Number: 438-19-301
		Building Number: 1 and 5
Location: Sioux Falls, South Dakota		Drawing Number: C-12
Issue Date: June 17, 2020	Checked: JRK	Drawn: JPR

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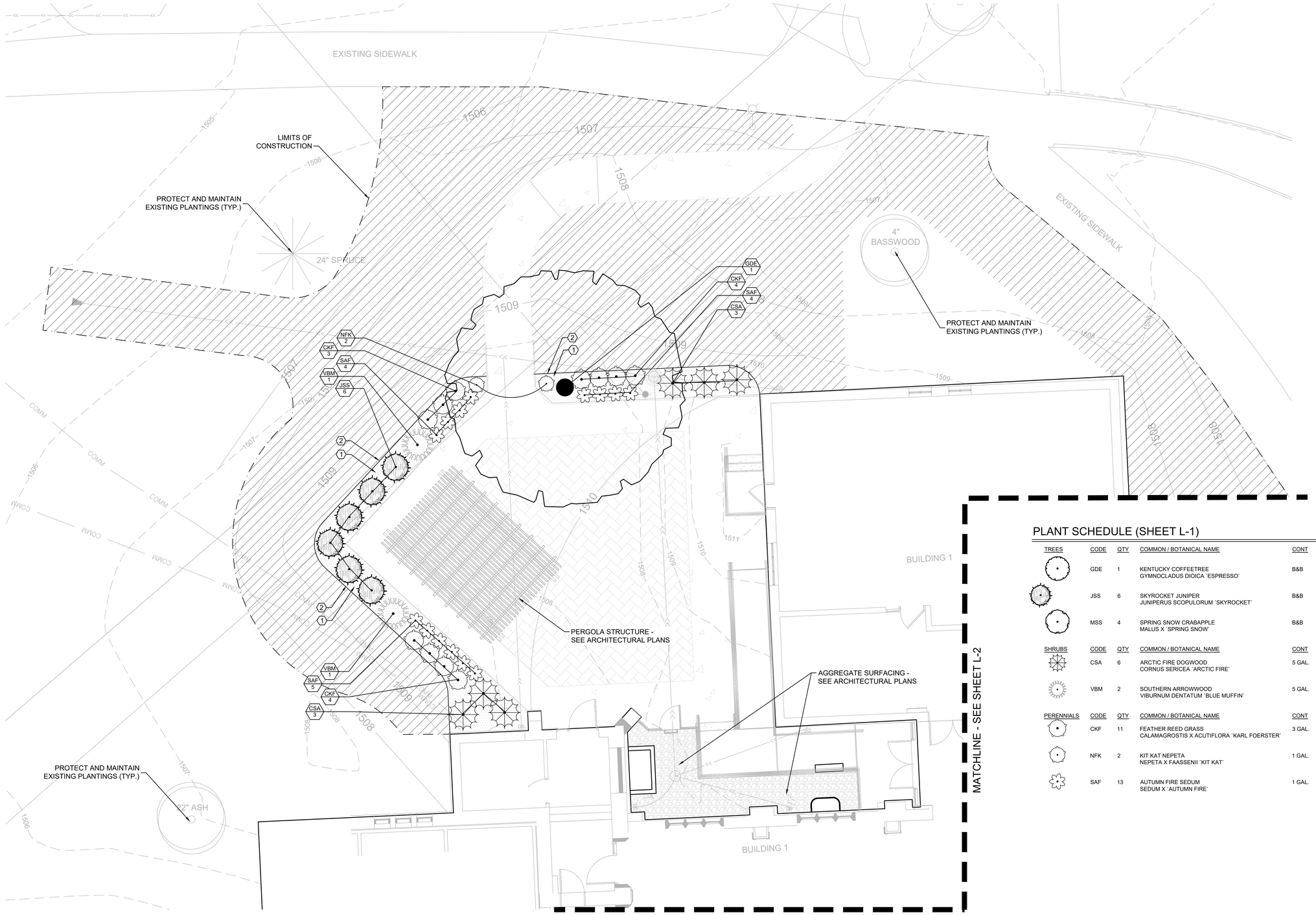

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- NEW SOD w/IRRIGATION
- (1) 3" DEEP, ROCK MULCH OVER LANDSCAPE FABRIC
- (2) LANDSCAPE POLY EDGER

NOTES

1. ALL PLANTINGS SHALL RECEIVE IRRIGATION
2. SEE 'GRADING PLAN' FOR ADDITIONAL INFORMATION

PLANT SCHEDULE (SHEET L-1)

TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL / HT	REMARKS
	GDE	1	KENTUCKY COFFEETREE GYMNOCLADUS DIOICA `ESPRESSO`	B&B	2 - 1/2" CAL.	NO BRANCHES BELOW 36" HT. SINGLE, STRAIGHT LEADER
	JSS	6	SKYROCKET JUNIPER JUNIPERUS SCOPULORUM `SKYROCKET`	B&B	6` HT.	
	MSS	4	SPRING SNOW CRABAPPLE MALUS X `SPRING SNOW`	B&B	2 - 1/2" CAL.	NO BRANCHES BELOW 36" HT. SINGLE, STRAIGHT LEADER
SHRUBS	**CODE**	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**		**REMARKS**
	CSA	6	ARCTIC FIRE DOGWOOD CORNUS SERICEA `ARCTIC FIRE`	5 GAL.		MINIMUM 5 CANES @ 12" HT.
	VBM	2	SOUTHERN ARROWWOOD VIBURNUM DENTATUM `BLUE MUFFIN`	5 GAL.		MINIMUM 5 CANES @ 12" HT.
PERENNIALS	**CODE**	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**		**REMARKS**
	CKF	11	FEATHER REED GRASS CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER`	3 GAL.		
	NFK	2	KIT KAT NEPETA NEPETA X FAASSENII `KIT KAT`	1 GAL.		
	SAF	13	AUTUMN FIRE SEDUM SEDUM X `AUTUMN FIRE`	1 GAL.		

1 PLANTING PLAN - PATIO AREA
SCALE: 1" = 5'

0 5' 10'

N

Revisions:	Date:

CONSULTANT
engineering discipline <EDIT TEXT>:
Consultant firm name
Consultant firm street address
Consultant firm city, state, zip code
Consultant firm phone number
Consultant POC

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13605 1st Ave. N. #100 Plymouth, MN 55441
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Anderson Engineering of Minnesota, LLC | Proj # 15522

STAMP
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Landscape Architect under the laws of the State of Minnesota.
CURT H. CLAEYS
PRINT NAME
SIGNATURE
45613 — REGISTRATION NUMBER
05/15/2020 — DATE

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

Drawing Title	PLANTING PLAN - PATIO AREA
Phase	CONSTRUCTION DOCUMENTS
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Project Number	438-19-301
Building Number	1 and 5
Location	Sioux Falls, SD
Issue Date	May 15, 2020
Checked	CHC
Drawn	JAF
Approved: Project Director	
Drawing Number	L-1

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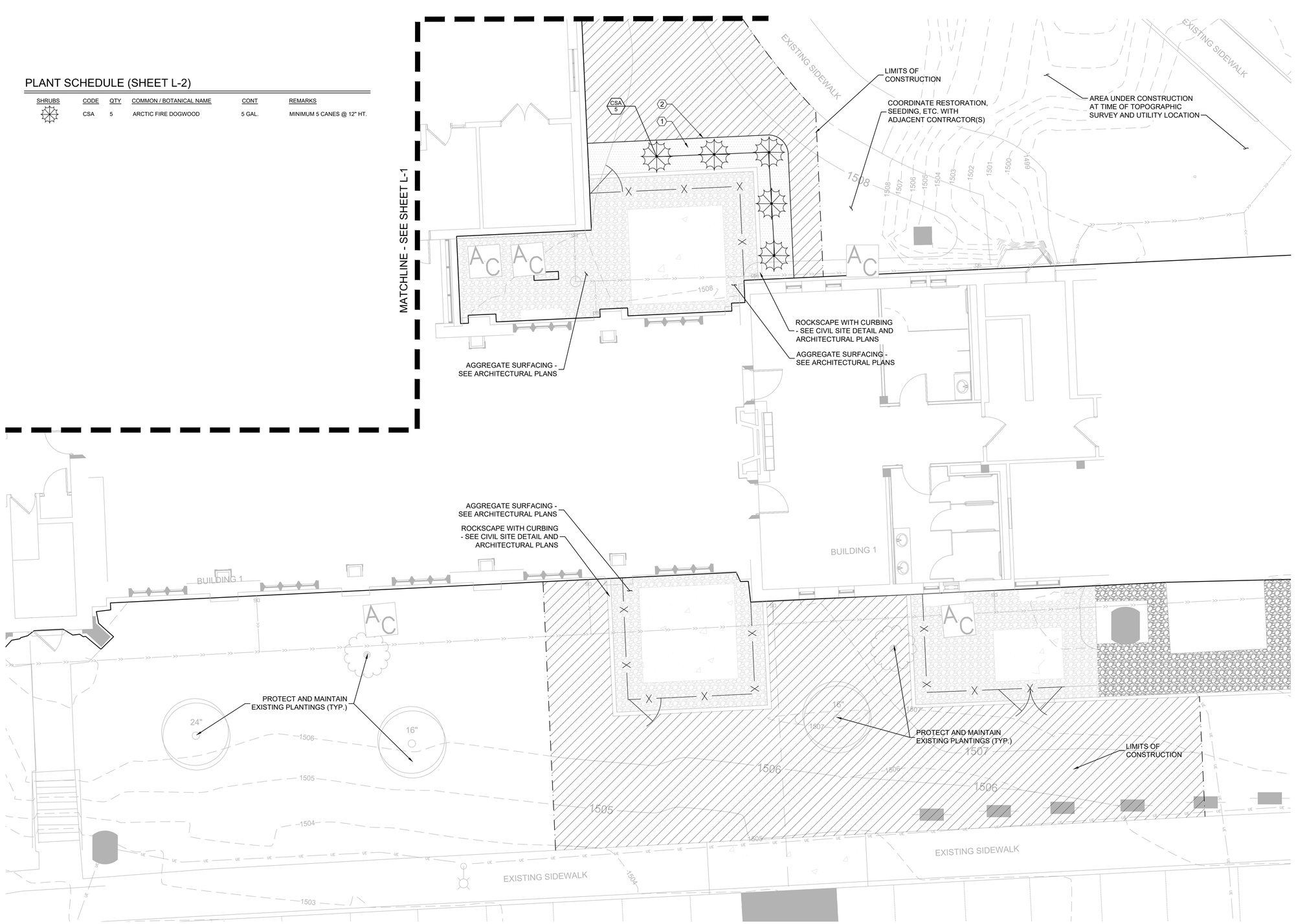
VA FORM 08 - 6231

PLANT SCHEDULE (SHEET L-2)

SHRUBS	CODE	QTY	COMMON / BOTANICAL NAME	CONT	REMARKS
	CSA	5	ARCTIC FIRE DOGWOOD	5 GAL.	MINIMUM 5 CANES @ 12" HT.



LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- NEW SOD w/IRRIGATION
- 1 — 3" DEEP, ROCK MULCH OVER LANDSCAPE FABRIC
- 2 — LANDSCAPE POLY EDGER

NOTES

1. ALL PLANTINGS SHALL RECEIVE IRRIGATION
2. SEE 'GRADING PLAN' FOR ADDITIONAL INFORMATION

1 PLANTING PLAN - AIR HANDLER AREA
SCALE: 1" = 5'

0 5' 10'

N

Revisions:	Date:

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Drawing Title	PLANTING PLAN - AIR HANDLER AREA
Phase	CONSTRUCTION DOCUMENTS
Approved: Project Director	
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Location	Sioux Falls, SD
Issue Date	May 15, 2020
Checked	CHC
Drawn	JAF
Project Number	438-19-301
Building Number	1 and 5
Drawing Number	L-2

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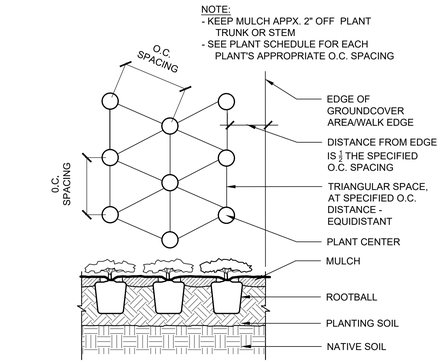
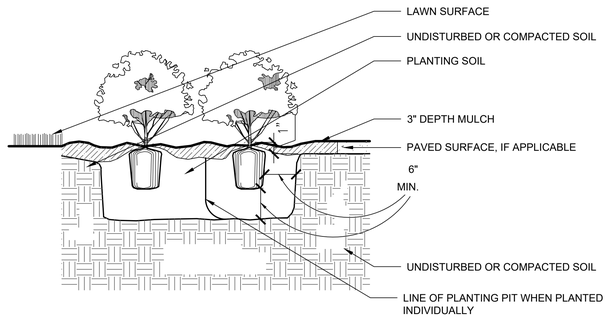
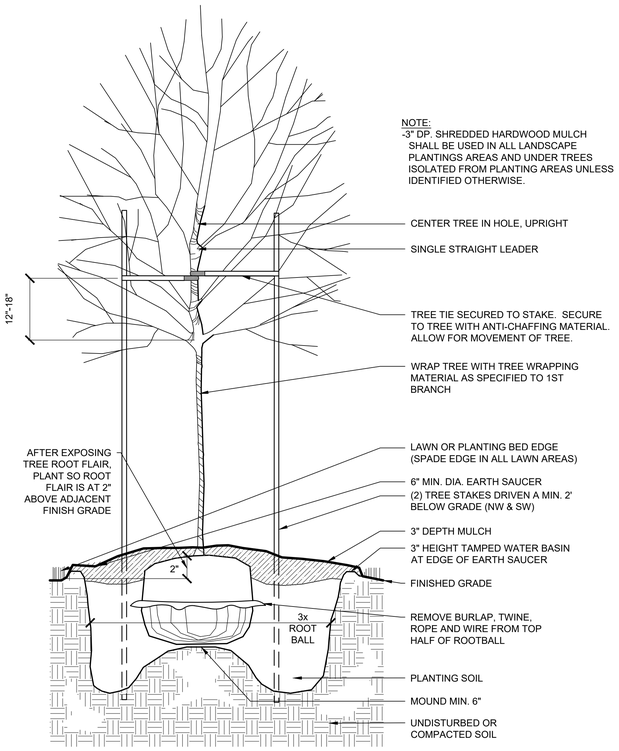
VA FORM 08 - 6231



1 SHRUB BED SPACING (TYP.)
SCALE: N.T.S.

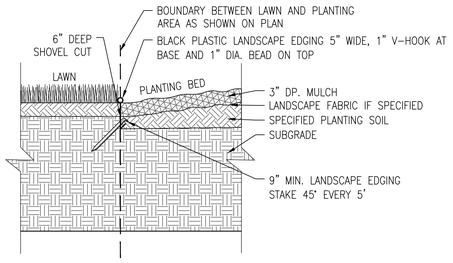


4 DECIDUOUS SHRUB PLANTING (TYP.)
SCALE: N.T.S.

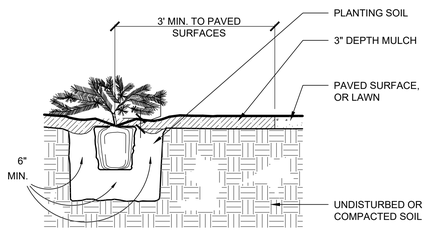


7 DECIDUOUS TREE PLANTING (TYP.)
SCALE: N.T.S.

NOTE:
–FOR MULTIPLE PIECES OF EDGING, CONNECT WITH 6" MIN. PLUG. STAKE EACH SIDE OF THE EDGING 12" MAX FROM THE POINT OF CONNECTION.



3 POLY EDGER DETAIL
SCALE: N.T.S.



5 EVERGREEN SHRUB PLANTING (TYP.)
SCALE: N.T.S.

Revisions:	Date:

CONSULTANT
engineering discipline <EDIT TEXT>:
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: PLANTING DETAILS
Approved: Project Director:
Phase: CONSTRUCTION DOCUMENTS
Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM
Location: Sioux Falls, SD
Issue Date: May 15, 2020
Checked: CHC
Drawn: JAF
Project Number: 438-19-301
Building Number: 1 and 5
Drawing Number: L-3

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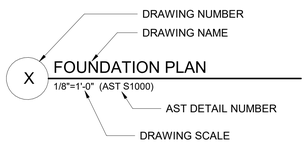
VA FORM 08 - 6231

DRAWING SYMBOLS




CONCRETE


FACE BRICK


CONCRETE BLOCK

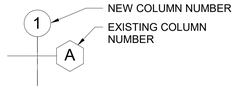

WOOD BLOCKING

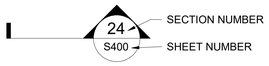

EARTH/ COMPACT FILL

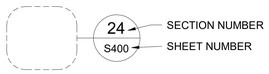

STEEL

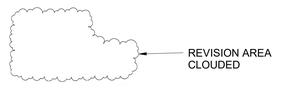
STEPPED FOOTING LOCATION


ELEVATION OR WORK POINT








REVISION AREA CLOUDED


BIM IMAGE ORIENTATION

ABBREVIATIONS

A	
AB	ANCHOR BOLT
ADD'L.	ADDITIONAL
ALT.	ALTERNATE
ARCH.	ARCHITECT(URAL)
B	
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BTWN.	BETWEEN
C	
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR.	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COMP.	COMPOSITE
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
COORD.	COORDINATE
CTRD.	CENTERED
D	
DBL.	DOUBLE
DIA.	DIAMETER
DIAG.	DIAGONAL
DL	DEAD LOAD
DO.	DITTO
DTL.	DETAIL
DWG.	DRAWING
E	
E	EAST
EA.	EACH
ELEV.	ELEVATION
EMBED.	EMBEDMENT
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F	
FAB.	FABRICATE(OR)
FD	FLOOR DRAIN
FNDN.	FOUNDATION
FTG.	FOOTING
G	
GA.	GAGE, GAUGE
GALV.	GALVANIZED
GC	GENERAL CONTRACT(OR)

H	
HORIZ.	HORIZONTAL
HK.	HOOK
HS	HEADED STUDS
HSS	HOLLOW STRUCTURAL SECTION
I	
INFO.	INFORMATION
J	
JBE	JOIST BEARING ELEVATION
JST.	JOIST
JT.	JOINT
K	
K.	KIP
KO	KNOCK-OUT
KSI	KIPS PER SQUARE INCH
L	
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
M	
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEZZ.	MEZZANINE
MFG.	MANUFACTURE(R)
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MO	MASONRY OPENING
N	
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	
OC	ON CENTER(S)
OH	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
P	
PC	PRECAST CONCRETE
PERIM.	PERIMETER
PL.	PLATE
PLF	POUNDS PER LINEAR FOOT
PROJ.	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH

Q	
QTY.	QUANTITY
R	
RAD.	RADIUS
RD	ROOF DRAIN
REINF.	REINFORCE(D), (ING)
REQ'D.	REQUIRED
REV.	REVISION, REVISE(D)
S	
S	SOUTH
SCHED.	SCHEDULE
SIM.	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPA.	SPACE(S)
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
T	
TBE	TOP OF BEAM ELEVATION
TDE	TOP OF DECK ELEVATION
TEMP.	TEMPORARY
TFE	TOP OF FOOTING ELEVATION
TPC	TOP OF PILE CAP ELEVATION
TPE	TOP OF PIER ELEVATION
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATION
TYP.	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VERT.	VERTICAL
W	
W	WEST
W/	WITH
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

DRAWING INDEX

Revisions:	Date:

CONSULTANT

7301 OHMS LANE
SUITE #215
(952) 854-9302 TEL.
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AST PROJECT NUMBER:
SD 1007

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Anderson Engineering of Minnesota, LLC | Proj # SD 1007

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
13222
JOHN MATHEW LEVAR
SOUTH DAKOTA
5/15/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	TITLE SHEET
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM S
Location	SIOUX FALLS, SD
Issue Date	05/15/2020
Checked	MAS
Drawn	AJM
Project Number	SD 1007
Building Number	1 and 5
Drawing Number	S001

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VA FORM 08 - 6231

STRUCTURAL NOTES

I. DESIGN DATA

A. BUILDING CODE

1. INTERNATIONAL BUILDING CODE 2018 EDITION WITH STATE AND LOCAL AMENDMENTS

B. DESIGN LOADS/DESIGN CRITERIA

1. WIND LOAD
   BASIC WIND SPEED (3-SECOND GUST) ----------Vult = 125 MPH, RISK CATEGORY IV
   ----------Vasd = 120 MPH
   EXPOSURE ----------C
   INTERNAL PRESSURE COEFFICIENTS, GC_{pi} ----------+/-0.18

2. ROOF LOADS
   LIVE LOAD (L.L.)----------20 PSF**
   DEAD LOAD (DESIGN D.L.)----------76 PSF

3. ROOF SNOW LOAD
   GROUND SNOW LOAD, Pg ----------40 PSF
   FLAT-ROOF SNOW LOAD, Pf ----------34 PSF
   SLOPED ROOF SNOW LOAD Ps ----------1.0
   SNOW EXPOSURE FACTOR, Ce ----------1.0
   SNOW LOAD IMPORTANCE FACTOR, I ----------1.2
   THERMAL FACTOR, Ct ----------1.0

4. FLOOR LOADS – TYPICAL
   LIVE LOAD (L.L.)----------80 PSF*
   DEAD LOAD (SUPERIMPOSED) ----------5 PSF

5. STAIRS, CORRIDORS & LOBBIES (L.L.)
   LIVE LOAD (LL)----------100 PSF*

6. SEISMIC DESIGN DATA
   SEISMIC IMPORTANCE FACTOR ----------1.0
   RISK CATEGORY ----------IV
   MAPPED SPECTRAL RESPONSE ACCELERATIONS
   ----------0.092 S_S
   ----------0.035 S_1
   SPECTRAL RESPONSE COEFFICIENTS
   ----------0.098 S_{DS}
   ----------0.057 S_{D1}
   SITE CLASS ----------D
   SEISMIC DESIGN CATEGORY ----------A
   SEISMIC RESPONSE COEFFICIENT ----------0.038 C_S
   RESPONSE MODIFICATION FACTOR----------3 R

   SEISMIC DESIGN AND ANCHORAGE OF NON-STRUCTURAL COMPONENTS SHALL BE THE RESPONSIBILITY OF THE SUPPLIER OF THE COMPONENTS. NON-STRUCTURAL COMPONENTS INCLUDES, BUT IS NOT LIMITED TO, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STORAGE RACKING SYSTEMS. IT SHALL BE THE RESPONSIBILITY OF THE SUPPLIER TO EXAMINE THE SYSTEMS AND COMPONENTS BEING PROVIDED RELATIVE TO THE PROVISIONS OF ASCE-7, CHAPTER 13 TO DETERMINE APPLICABILITY OF THE PROVISIONS TO THE SCOPE OF WORK. IN THE EVENT THAT PROVISIONS APPLY TO THE SCOPE OF WORK, AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL DESIGN THE APPLICABLE SUPPORT SYSTEMS AND ANCHORAGE FOR THE COMPONENTS AND PRODUCE SIGNED AND SEALED DRAWINGS AND CALCULATIONS FOR SUBMITTAL AND REVIEW BY THE ENGINEER OF RECORD.

7. DEFLECTION CRITERIA
   ALL MEMBERS SUPPORTING MASONRY ARE DESIGNED FOR A MAXIMUM DEAD LOAD PLUS LIVE LOAD DEFLECTION OF SPAN/600 OR 0.3 INCHES, WHICHEVER IS LESS.
   ALL PERIMETER MEMBERS ARE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF 0.5 INCHES UNLESS NOTED OTHERWISE ON PLANS.

   * REDUCED PER IBC, SEC. 1607.10
   ** PLUS SNOW ACCUMULATION AS REQUIRED BY IBC, CHAPTER 16, SECTION 1608.

C. ALTERNATE DESIGNS
   ALTERNATE STRUCTURAL SYSTEMS & DETAILS WILL ONLY BE CONSIDERED PROVIDED THEY ARE SUBMITTED WITH CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. THE CALCULATIONS MUST SHOW THE EQUIVALENCY OF THE ALTERNATE. ACCEPTANCE OF THE ALTERNATE BY THE ENGINEER OF RECORD MUST BE IN WRITING.

D. EXPANSION JOINTS
   EXPANSION JOINTS ARE NOTED ON THE DRAWINGS. NO CONNECTIONS SHALL BE MADE ACROSS THESE JOINTS UNO.

E. FUTURE EXPANSION
   THIS PROJECT IS NOT DESIGNED FOR FUTURE EXPANSION.

F. GENERAL NOTES

1. IN ALL CASES WHERE A CONFLICT MAY OCCUR, SUCH AS BETWEEN REQUIREMENTS IN THE SPECIFICATION AND REQUIREMENTS ON THE DRAWINGS, THE STRUCTURAL ENGINEER OF RECORD SHALL BE IMMEDIATELY NOTIFIED IN WRITING AND THE STRUCTURAL ENGINEER OF RECORD SHALL INTERPRET THE INTENT OF THE CONTRACT DOCUMENT.

2. IN NO CASE, SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE STRUCTURAL DRAWINGS.

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE AND TO CROSS CHECK ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

4. IN EXISTING FACILITIES, ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEERING (IN WRITING).

G. REFERENCE STANDARDS – SEE IBC CHAPTER 35 FOR ALL REFERENCE STANDARDS

II. SPECIAL INSPECTIONS

A. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE "SPECIAL INSPECTIONS" DURING CONSTRUCTION. THE "SPECIAL INSPECTIONS" - REQUIRED IN ACCORDANCE W/ THE IBC, SECTIONS 1704 AND 1705 - ARE SUMMARIZED BELOW.

1.	SECTION 1705.2	STEEL CONSTRUCTION
2.	SECTION 1705.3	CONCRETE CONSTRUCTION
3.	SECTION1705.4	MASONRY CONSTRUCTION
4.	SECTION 1705.10	FABRICATED ITEMS
5.	SECTION 1705.12	SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE
6.	SECTION 1705.13	TESTING FOR SEISMIC RESISTANCE

SEE THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION REGARDING TESTING AND INSPECTION OF FIELD APPLIED FIREPROOFING AND ASSEMBLIES.

SPECIAL INSPECTOR SHALL SUBMIT AN INSPECTION PLAN THAT SUMMARIZES ALL THE INSPECTIONS THAT WILL BE PROVIDED FOR THE PROJECT PRIOR TO START OF CONSTRUCTION.

III. STRUCTURAL TESTS

A. THE OWNER SHALL EMPLOY ONE OR MORE TESTING AGENCIES TO PROVIDE STRUCTURAL TESTING DURING CONSTRUCTION. THE MINIMUM STRUCTURAL TESTING - REQUIRED IN ACCORDANCE W/ THE IBC IS SUMMARIZED BELOW.

1.	CONCRETE	CYLINDER COMPRESSION TESTING
2.	MASONRY	HOLLOW UNIT BLOCK COMPRESSIONS TESTS (UNIT STRENGTH METHOD)
3.	ANCHORAGE	** POST-INSTALLED EXPANSION OR ADHESIVE ANCHORS

** WHEN DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD TO PROVIDE POST-INSTALLED ANCHORAGES THE FOLLOWING GUIDELINES SHALL BE FOLLOWED:

1. A REPRESENTATIVE OF THE ANCHOR MANUFACTURER OR PROJECT SPECIAL INSPECTOR SHALL BE ON SITE TO OVERSEE THE INSTALLATION OF THE FIRST FOUR ANCHORS FOR EACH TYPE OF ANCHOR INSTALLED. THIS MEASURE SHALL BE TAKEN FOR EACH INSTALLER OF THE ANCHORS. THIS SERVICE IS TYPICALLY PROVIDED FOR FREE BY THE LOCAL HILTI REPRESENTATIVE.
2. THE FIRST FOUR ANCHORS SHALL BE TENSION TESTED ONCE INSTALLATION IS COMPLETE FOR 100% OF THE SERVICE LEVEL LOAD CAPACITY AS SPECIFIED BY THE STRUCTURAL ENGINEER OF RECORD.

IV. REQUIRED STRUCTURAL SUBMITTALS

A. THE REVIEW OF THE FOLLOWING SUBMITTALS IS INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S (SEOR) SCOPE OF SERVICES. THE GENERAL CONTRACTOR SHALL PROVIDE THE ITEMS BELOW TO THE SEOR FOR REVIEW PRIOR TO CONSTRUCTION.

B. SHOP DRAWINGS SHALL BE ORIGINALS AND SHALL NOT BE CREATED, IN WHOLE OR IN PART, FROM THE ELECTRONIC STRUCTURAL CAD FILES OR REPRODUCTIONS OF THE STRUCTURAL DRAWINGS. REPRODUCING THE STRUCTURAL DRAWINGS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER IS A VIOLATION OF COPYRIGHT LAWS AND CODE OF STANDARD PRACTICE. SUBMITTALS NOT ADHERING TO THESE PROVISIONS WILL BE REJECTED WITHOUT REVIEW.

C. SHOP DRAWING PACKAGES MUST BE COMPLETE WHEN SUBMITTED AND MUST INCLUDE CERTIFIED CALCULATIONS IF REQUIRED. INCOMPLETE SHOP DRAWING PACKAGES WILL BE REJECTED WITHOUT REVIEW.

D. PRIOR TO SUBMITTING SHOP DRAWINGS TO SEOR, THE SHOP DRAWINGS MUST BE REVIEWED AND COORDINATED BY THE GENERAL CONTRACTOR.

E. ELECTRONIC VERSION IN PDF FORMAT OF ALL REQUIRED SHOP DRAWINGS AND CALCULATIONS MUST BE SUBMITTED BY THE SUPPLIER AND A MINIMUM OF 10 BUSINESS DAYS MUST BE PROVIDED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.

F. SEE THE APPROPRIATE MATERIALS SECTION ON THIS PAGE FOR ADDITIONAL INFORMATION ON EACH SUBMITTAL.

REQUIRED STRUCTURAL SUBMITTALS		
CATEGORY	ITEM	COMMENTS
CONCRETE		
	FOUNDATION REINFORCING	
	INT. AND EXT. SLAB REINFORCING	
	FOUNDATION WALL REINFORCING	
	MIX DESIGNS FOR ALL CLASSES OF CONCRETE	
	MILL CERTS. FOR REINFORCING	
MASONRY		
	STEEL REINFORCING	
	GROUT MIX DESIGN	
	MILL CERTS. FOR REINFORCING	
STEEL		
	CURRENT AISC OR ICC SHOP CERTIFICATION	
	ANCHOR BOLTS	
	STRUCTURAL STEEL	
	STRUCTURAL STEEL CONNECTIONS AND CALCULATIONS	PE CERTIFICATION REQUIRED
	STRUCTURAL STEEL EMBEDS	
	MILL CERTS. FOR STRUCTURAL STEEL	
	STAIR AND MISC. METALS SHOP DRAWINGS	PE CERTIFICATION REQUIRED
	STAIR CALCULATIONS	PE CERTIFICATION REQUIRED
LIGHT GAGE METAL		
	LIGHT-GAGE SHOP DRAWINGS	PE CERTIFICATION REQUIRED
	LIGHT-GAGE CALCULATIONS.	PE CERTIFICATION REQUIRED
OTHER		
	SPRINKLER SHOP DRAWINGS	
	PATIENT LIFT/FALL PROTECTION SHOP DRAWINGS	
	DECK PENETRATION LAYOUT PLAN	
	ELEVATOR SHOP DRAWINGS	

V. SITE WORK

A. GEOTECHNICAL (ASSUMED PROPERTIES)

1. FOUDATIONS, RETAINING WALLS, FOUNDATION DRAINAGE, SLABS ON GRADE & OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED ON THE ASSUMED DESIGN INFORMATION OUTLINED IN THIS SECTION. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT, TO VISIT THE SITE AND CERTIFY IN WRITING THAT THE FOLLOWING ASSUMED DESIGN INFORMATION IS CORRECT.

2. DESIGN NET SOIL BEARING CAPACITY IS AS FOLLOWS:
   STRIP FOOTINGS----------1,500 PSF

3. ALLOWABLE PASSIVE PRESSURE----------440 PCF

4. COEFFICIENT OF FRICTION----------0.45

5. MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF BUILDING PERIMETER FOOTINGS SHALL BE 4'-0". ALL OPEN AIR FOUNDATIONS HAVE A MINIMUM OF 5'-0" FROST PROTECTION.

6. UNRESTRAINED RETAINING WALLS ARE DESIGNED FOR AN ACTIVE EQUIVALENT FLUID PRESSURE OF 35 PSF/FT. THE BACKFILL MATERIAL SHALL CONSIST OF A WELL-COMPACTED, FREE-DRAINING SAND. SEE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION ON MATERIAL GRADATION AND BACKFILL OPERATIONS.

VI. CONCRETE

A. CONCRETE MATERIAL PROPERTIES

1. CONCRETE PROPERTIES — STRENGTH (f'c @ 28 DAYS)
   FOOTINGS----------3000 PSI
   RETAINING WALLS----------4000 PSI
   EXTERIOR SLAB ON GRADE----------4000 PSI
   CONC. OVER METAL DECK----------3500 PSI

2. CYLINDER TESTING SHALL BE COMPLETED PER ACI-318, SECTION 5.6. TESTING REPORTS SHALL BE PROVIDED TO THE OWNER AND ENGINEER OF RECORD AT A MINIMUM. PREFERABLE DELIVERY METHOD IS VIA E-MAIL.

3. ALL EXTERIOR CONCRETE, PERMANENTLY EXPOSED TO WEATHER (DOES NOT APPLY TO BURIED FOUNDATIONS), SHALL BE AIR ENTRAINED TO GIVE THE CONCRETE AN AIR CONTENT OF 6% +/- 1% BY VOLUME. NATURALLY OCCURRING AIR SHALL NOT EXCEED 3% FOR NON-AIR ENTRAINED MIXES.

4. CONCRETE MIX DESIGNS & SUPPORTIVE DATA MUST BE SUBMITTED FOR APPROVAL ACCORDING TO ACI-318 SECTION 5.3, AND ACI-301, SECTION 1.5.

5. LIGHTWEIGHT CONCRETE SHALL HAVE A MINIMUM DRY UNIT WEIGHT OF 106 PCF & A MAXIMUM DRY UNIT WEIGHT OF 116 PCF WITH AIR CONTENT OF 4% TO 7%.

B. REINFORCING MATERIAL PROPERTIES

1. REINFORCING PROPERTIES — fy KSI — ASTM
   ALL BARS UNLESS NOTED----------60 A615
   WELDED WIRE FABRIC (SMOOTH) ----------65 A185

2. EPOXY COATING FOR REINFORCING SHALL CONFORM TO ASTM A-775 AND ACI-301 SECTION 3.2.

3. WHERE EPOXY COATED REINFORCING IS REQUIRED, ALL CHAIRS, SLAB BOLSTERS, SUPPORT BARS, AND SPACERS SHALL BE PLASTIC COATED OR EPOXY COATED.

4. SOFT METRIC BAR SIZES VS. INCH-POUND (U.S. SYSTEM OF MEASURES) BAR SIZE TABLE. AST DRAWINGS REFLECT THE U.S. SYSTEM OF MEASURE.

INCH-POUND BAR SIZE DESIGNATION	SOFT METRIC BAR SIZE DESIGNATION
#4	#13
#5	#16
#6	#19
#7	#22
#8	#25

C. CAST IN PLACE CONCRETE

1. ALL CONCRETE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH IBC CHAPTER 19 & ACI-318.

2. ALL REINFORCING SHALL BE DETAILED, FABRICATED & PLACED IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE." THE STEEL REINFORCING SUPPLIER SHALL SUBMIT SHOP DRAWINGS FOR ALL ELEMENTS & MEMBERS WITH REINFORCING FURNISHED BY THE SUPPLIER.

3. PER ACI 26.6.2.2, ALL REINFORCEMENT SHALL BE PLACED AND SUPPORTED PRIOR TO PLACING CONCRETE. "WET STICKING" OF REBAR, INCLUDING DOWELS IS PROHIBITED.

4. SPACING OF CONSTRUCTION OR CONTROL JOINTS IN WALLS EXPOSED TO VIEW SHALL NOT EXCEED 40 FEET UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CUT HALF OF THE HORIZONTAL REINFORCING AT CONTROL JOINTS.

5. SLEEVES EMBEDDED IN SLABS AND WALLS SHALL BE LOCATED CLEAR BETWEEN REINFORCING BARS AND SHALL MAINTAIN CLEAR SPACING EQUAL TO THE DIAMETER OF THE LARGEST SLEEVE IN ANY DIRECTION. SLEEVE GROUPS THAT DO NOT COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE CONSIDERED AS AN OPENING AND REINFORCED PER NOTE #5 BELOW.

6. UNLESS NOTED OTHERWISE ON THE DRAWINGS: PROVIDE EXTRA REINFORCING ON ALL SIDES OF ALL MISCELLANEOUS WALL AND SLAB OPENINGS EQUAL TO ONE HALF THE INTERRUPTED REINFORCING BARS EACH SIDE BUT NOT LESS THAN 2 - #5 FOR EACH LAYER OF REINFORCEMENT. EXTEND BARS CLASS 'B' LAP LENGTH BUT NOT LESS THAN 2 FEET BEYOND EDGE OF OPENINGS. PROVIDE 2 - #4x4'-0" DIAGONAL BARS AT EACH CORNER FOR EACH LAYER OF REINFORCEMENT.

7. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.

8. PROVIDE ISOLATION JOINTS AROUND COLUMNS AT SLAB ON GRADE AREAS.

9. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	MINIMUM COVER (IN)
CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH ----------	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THRU #18 BARS----------	2
#5 & SMALLER BARS----------	1 ½
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS & WALLS:	
#11 & SMALLER BARS----------	¾
BEAMS & COLUMNS:	
PRIMARY REINFORCEMENT, TIES & STIRRUPS----------	1 ½

D. COMPOSITE METAL DECK AND CONCRETE FLOOR SYSTEMS

1. PRE-COMPOSITE (WET CONCRETE) REQUIREMENTS
   A. EQUIPMENT FOR CONCRETE PLACING AND FINISHING OPERATIONS ON THE METAL DECK SHALL NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
   B. THE PRE-COMPOSITE CONSTRUCTION LIVE LOAD LIMITS THE EQUIPMENT ALLOWED ON THE METAL DECK DURING PLACING OPERATIONS. SEE THE DESIGN LOADS SECTION FOR THE LIVE LOAD USED FOR DESIGN.
   C. CONCRETE PUMP LINE EQUIPMENT USED TO MOVE THE LINE DURING PLACING MAY NOT BE USED ON FLOOR SYSTEMS DESIGNED WITH WELDED WIRE REINFORCING (WWR). WHERE FIBER REINFORCING IS USED IN LIEU OF WWR, LINE EQUIPMENT MAY BE USED AS LONG AS IT IS NOT LOCATED ON DECK SPANS WHERE CONCRETE IS ACTIVELY BEING PLACED. PERSONNEL OTHER THAN THE OPERATOR(S) SHALL REMAIN AT LEAST 10 FEET AWAY FROM THE EQUIPMENT.

2. POST-COMPOSITE (CURED CONCRETE) REQUIREMENTS
   A. THE GENERAL CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT CRACKING OF THE ELEVATED CONCRETE SLABS DURING CONSTRUCTION AND BUILD-OUT ACTIVITIES. THIS INCLUDES LIMITING MATERIALS, EQUIPMENT AND OPERATIONS TO THOSE THAT DO NOT DAMAGE THE SLABS.
   B. NO EQUIPMENT OR MATERIAL MAY BE USED OR STORED ON THE ELEVATED CONCRETE FLOOR WITHIN 7 DAYS OF CONCRETE PLACEMENT. IN ADDITION, CYLINDER TESTS SHALL CONFIRM THAT THE DESIGN COMPRESSIVE STRENGTH HAS BEEN REACHED.
   C. LIFTS FOR PERSONNEL OR MATERIAL SHALL NOT BE USED ON THE ELEVATED CONCRETE SLAB WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD. THE DESIGN SHOWN ON THE CONSTRUCTION DOCUMENTS ASSUMES THAT LIFTS DO NOT EXCEED A TOTAL WEIGHT WITH PAYLOAD OF 2500 LBS AND THAT NO AXLE LOAD EXCEEDS 1500 LBS.
   D. A MAXIMUM OF (2) TWO LIFTS MAY BE USED IN A GIVEN BAY. A MINIMUM CLEARANCE OF 10 FEET BETWEEN LIFTS MUST BE MAINTAINED AT ALL TIMES.
   E. MATERIAL STOCKED OR STORED ON THE ELEVATED SLAB SHALL BE DISTRIBUTED SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD FOR THE FLOOR.
   F. OPERATIONS SHALL MINIMIZE IMPACT LOADING BY SLOWLY LOWERING LOADS FROM PALLET JACKS AND OTHER SIMILAR EQUIPMENT.

VII. STEEL

A. STEEL MATERIAL PROPERTIES

1.

STEEL PROPERTIES	STRENGTH (PSI)	ASTM
STRUCTURAL WIDE FLANGE SHAPES ----------	50,000	A992
OTHER STRUCT. SHAPES & PLATES, ETC ----------	36,000	A36
ANCHOR RODS ----------	36,000	F1554
WELDING ELECTRODES ----------	E70XX	A233
DECK WELDING ELECTRODES ----------	360XX	A233
HEADED STUDS, TYPE B (Fu=65,000) ----------	51,000	AWS D1.1 CHAPTER 7

   EXPANSION BOLTS SHALL BE HILTI KWIK BOLT 3 OR PRE-APPROVED EQUAL.

2. SEE ITEM B.10 BELOW FOR ADDITIONAL REQUIREMENTS FOR SEISMIC FORCE RESISTING SYSTEMS.

B. STRUCTURAL STEEL

1. STRUCTURAL STEEL DESIGN & CONSTRUCTION SHALL CONFORM TO IBC CHAPTER 22, AISC 'LOAD & RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" & AISC "CODE OF STANDARD PRACTICE," APPLY UNO.

2. STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS FOR ALL MATERIAL SUPPLIED. IN ADDITION, THE STRUCTURAL STEEL SUPPLIER SHALL SUBMIT DRAWINGS AND CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT FOR ALL STAIRS, LADDERS, RAILINGS, CAP PLATES, BEARING PLATES, BASE PLATES, STIFFENERS, SPLICES, CONNECTIONS AND ANY OTHER COMPONENTS DESIGNED BY THE SUPPLIER.

3. STRUCTURAL STEEL SUPPLIER SHALL FURNISH BOLTS FOR OSHA CONNECTIONS (SEE DRAWINGS FOR DETAILS). BOLT HOLES IN BEAM TOP FLANGE SHALL BE MAXIMUM 9/16" DIA. FOR "K" SERIES JOISTS AND 13/16" DIA. FOR "LH" SERIES JOISTS.

4. CAMBERS SHOWN ON THE DRAWINGS REFLECT THE IN-PLACE, ERECTED BEAM SELF-WEIGHT CONDITIONS. CAMBERS SHALL BE INCREASED ACCORDINGLY BY STRUCTURAL STEEL SUPPLIER TO ACCOUNT FOR LOSS OF CAMBER DUE TO CAMBERING PROCESS, TRANSPORTATION AND HANDLING. BEAMS WITH CAMBER SHALL COMPLY WITH A CAMBER TOLERANCE OF –0",+ ½". SINGLE POINT CAMBERING IS NOT ALLOWED.

5. THIS STRUCTURE IS A NON-SELF SUPPORTING STEEL FRAME REQUIRING INTERACTION WITH OTHER ELEMENTS TO PROVIDE THE REQUIRED STABILITY. THE STEEL ERECTOR SHALL PROVIDE TEMPORARY BRACING UNTIL FINAL STABILITY IS PROVIDED. AS A MINIMUM, TEMPORARY BRACING SHALL BE PROVIDED AT EACH GRID IN BOTH DIRECTIONS.

6. BOLTED CONNECTIONS SHALL BE 3/4" DIA., A325 BEARING-TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE. INSTALL BOLTS IN PROPERLY ALIGNED HOLES AND TIGHTEN TO A SNUG-TIGHT CONDITION AS DEFINED BY THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" UNO.

C. STEEL FLOOR DECK

1. ALL STEEL DECK SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH IBC CHAPTER 22, SECTION 2210 - COLD FORMED STEEL AND THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS, UNO.

2. THE STEEL DECK SUPPLIER SHALL SUBMIT SHOP DRAWINGS FOR ALL ELEMENTS & MEMBERS FURNISHED BY THE DECK SUPPLIER. DECK SUPPLIER SHALL SUBMIT ICC REPORTS SHOWING ALLOWABLE DIAPHRAGM SHEAR VALUES.

3. PRE-APPROVED DECK MANUFACTURERS ARE NUCOR/VULCRAFT/VERCO, WHEELING, AND CAN-AM. OTHER METAL DECK MANUFACTURERS MAY BE APPROVED PROVIDING THAT THE DECK SPECIFICATIONS MEET OR EXCEED THE SPECIFICATIONS OF THE PRE-APPROVED MANUFACTURERS. METAL DECK SIZE, GAGE AND TYPE ARE INDICATED ON THE DRAWINGS.

4. STRUCTURAL SLAB FORM (METAL CENTERING) SHALL BE DESIGNED FOR THE SPANS AND SLAB DEAD LOADS AS SHOWN ON THE DRAWINGS & INSTALLED IN ACCORDANCE WITH SDI SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.

5. THE STEEL DECK SHALL SUPPORT THE WEIGHT OF WET CONCRETE AND OTHER CONSTRUCTION LOADS AS AN UN-SHORED FORM DECK. PLACEMENT AND SEQUENCE OF LOADING THE DECK WITH THE WET CONCRETE IS THE RESPONSIBILITY OF THE CONCRETE SUBCONTRACTOR AND SHALL BE COORDINATED WITH THE DECK SUPPLIER IN ADVANCE OF PLACING CONCRETE.

6. DECK FASTENING SHALL BE PER SDI & MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN THAT SHOWN ON THE DRAWINGS. BUTTON-PUNCHED OR CRIMPED SIDE LAP FASTENERS SHALL NOT BE USED ON THE COMPOSITE DECK. COMPOSITE DECK MUST BE SCREWED OR WELDED AS INDICATED ON THE DRAWINGS.

7. ALL METAL DECK TO BE SPRAY FIREPROOFED SHALL BE GALVANIZED, CLEANED & DEGREASED PRIOR TO SHIPPING. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF FIREPROOFING.

VIII. LIGHT GAGE METAL STUD FRAMING

A. LIGHT GAGE FRAMING

1. LIGHT GAGE FRAMING SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH IBC CHAPTER 22, SECTION 2210 – COLD FORMED STEEL.

2. STUD DESIGNATION & RELATED ACCESSORIES ON DRAWINGS ARE BASED ON AISI/ SFIA/ SSMA (STEEL STUD MANUFACTURERS ASSOCIATION) STANDARD SHAPES. OTHER MANUFACTURERS SHALL FURNISH ELEMENTS OF EQUAL OR GREATER SECTION PROPERTIES, MATERIAL STRENGTHS & STIFFNESS.
   Fy = 33,000 psi (STUDS = 18 GA & THINNER).
   Fy = 50,000 psi (STUDS = 16 GA & THICKER).
   Fy = 33,000 psi (TRACK).

3. STEEL THICKNESS

REFERENCE GAGE	MILS	MINIMUM DELIVERED THICKNESS (IN.)
20	33	0.0329
18	43	0.0428
16	54	0.0538
14	68	0.0677
12	97	0.0966

4. THE DRAWINGS ARE INTENDED TO EXPRESS THE MINIMUM DESIGN PERFORMANCE. ALTERNATE DESIGNS OF EQUIVALENT CAPACITY WILL BE CONSIDERED BY THE STRUCTURAL ENGINEER FOR APPROVAL. THIS WILL BE SUBJECT TO THE REVIEW OF THE FINAL DETAILED SHOP DRAWINGS AND RELATED DESIGN CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

5. SCREW ALL STEEL SECTIONS AT WINDOW HEADS & SILLS TO JAMB STUDS WITH A MINIMUM OF ONE SCREW EACH SIDE EACH MEMBER.

6. ANCHOR EACH STUD TO RUNNERS WITH FOUR #10 SCREWS, TWO TOP AND TWO BOTTOM, WITH ONE SCREW IN EACH FLANGE UNO.

7. ALIGN RUNNER TRACK ACCURATELY & SECURE TO BASE & HEAD WITH FASTENERS AS SHOWN ON THE DRAWINGS OR EQUIVALENT OR AS NOTED IN THE MANUFACTURER'S STANDARD SPECIFICATION BUT FASTENER SPACING SHALL NOT EXCEED 24" ON CENTER.

8. SELF-DRILLING OR SELF-TAPPING MINIMUM 1/2" TYPE S-12 SCREWS MAY BE USED IN LIEU OF WELDING FOR ASSEMBLING STEEL STUD WALLS. ONE SCREW MAY BE SUBSTITUTED FOR EACH WELD UNO.

Revisions:	Date:

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5/15/2020

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VA | U.S. Department of Veterans Affairs

Drawing Title	STRUCTURAL NOTES
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Location	SIOUX FALLS, SD
Issue Date	05/15/2020
Checked	MAS
Drawn	AJM
Project Number	SD 1007
Building Number	1 and 5
Drawing Number	S002

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EXISTING CONCRETE COLUMN SCHEDULE		
MARK	SIZE	REMARKS
(E) 10" COL.	(E) 10" COL.	
(E) C1	12"x12"	
(E) C2	14"x14"	
(E) C3	16"x16"	
(E) C4	18"x18"	
(E) C5	20"x20"	
(E) C6	22"x22"	
(E) C7	23"x23"	
(E) C8	24"x24"	
(E) C9	26"x26"	

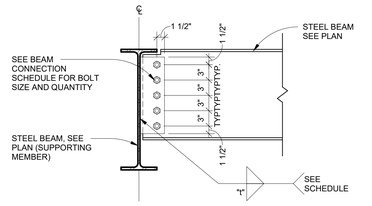
EXISTING FOOTING SCHEDULE			
MARK	SIZE	REINF. E.W. BOTTOM	REMARKS
(E) F5.3	5'-4"x5'-4"x2'-2"	(10) - #5	
(E) F6.5	6'-6"x6'-6"x2'-2"	(14) - #5	
(E) F6.8	6'-10"x6'-10"x2'-4"	(14) - #5	
(E) F7	7'-0"x7'-0"x2'-0"	(20) - #6	
(E) F7.5	7'-6"x7'-6"x2'-2"	(22) - #6	
(E) F7.5b	7'-6"x7'-6"x2'-4"	(21) - #6	
(E) F8	8'-0"x8'-0"x2'-4"	(22) - #6	
(E) F8.5	8'-6"x8'-6"x2'-4"	(24) - #6	
(E) F8.8	8'-10"x8'-10"x2'-4"	(24) - #6	
(E) F9.2	9'-2"x9'-2"x2'-6"	(28) - #6	
(E) F9.3a	9'-4"x9'-4"x2'-2"	(28) - #6	
(E) F9.3b	9'-4"x9'-4"x2'-6"	(27) - #6	
(E) F9.5	9'-6"x9'-6"x2'-6"	(26) - #6	
(E) F9a	9'-0"x9'-0"x2'-2"	(25) - #6	
(E) F9b	9'-0"x9'-0"x2'-4"	(28) - #6	

BEAM CONNECTION SCHEDULE

SINGLE SHEAR TAB (FLEXIBLE) CONNECTION USING SHORT-SLOTTED HOLES TRANSVERSE TO DIRECTION OF LOAD

CONNECTION CAPACITY (Ø Rn)	MINIMUM BEAM SIZE	SHEAR TAB SIZE	WELD SIZE "t"	NUMBER OF ROWS OF 3/4" Ø A325-N BOLTS	REMARKS
14k	W8 W10	PL. 1/4"x4 1/2"x0'-6"	3/16"	2	
27k	W12 W14	PL. 1/4"x4 1/2"x0'-9"	3/16"	3	
44k	W16	PL. 1/4"x4 1/2"x1'-0"	3/16"	4	
62k	W18	PL. 1/4"x4 1/2"x1'-3"	3/16"	5	
79k	W21	PL. 5/16"x4 1/2"x1'-6"	1/4"	6	2"x4 3/4" MAXIMUM COPE
96k	W27	PL. 3/8"x4 1/2"x1'-9"	5/16"	7	2 1/4"x5 3/4" MAXIMUM COPE
113k	W30	PL. 7/16"x4 1/2"x2'-0"	3/8"	8	2 1/4"x5 3/4" MAXIMUM COPE
130k	W33	PL. 7/16"x4 1/2"x2'-3"	3/8"	9	2 1/4"x5 3/4" MAXIMUM COPE
142k	W36	PL. 7/16"x4 1/2"x2'-6"	3/8"	10	2 1/4"x5 3/4" MAXIMUM COPE

NOTES:
1. TYPICAL CONNECTION DESIGN IS FOR A MAXIMUM TOP COPE OF 1 1/2" DEEP AND 4" LONG. SHEAR TAB CONNECTION MAY REQUIRE A SMALLER COPE DEPTH. MINIMUM EDGE DISTANCE FOR STANDARD BOLT HOLES IS 1 1/4" (MINIMUM EDGE DISTANCE FOR SHORT SLOTTED HOLES IS 1 3/8").
2. FOR SHEAR TAB CONNECTIONS WITH SUPPORTING MEMBER WEB THICKNESS GREATER THAN 3/4" USE 3/8" WELD AND 7/16" PLATE.
3. USE DOUBLE ANGLE BOLTED CONNECTION SCHEDULE FOR REACTIONS EXCEEDING CONNECTION CAPACITY GIVEN IN THIS SCHEDULE.
4. CONNECTION CAPACITY IS AN ULTIMATE LOAD PER AISC-LRFD THIRD EDITION.
5. COORDINATE SHEAR TAB LENGTH WITH OTHER DETAILS ON THIS PROJECT.
6. SHORT SLOTTED HOLES ARE IN THE BEAM.
7. CONNECTION CAPACITY IS BASED ON SMALLEST BEAM DESIGNATION OF MINIMUM BEAM SIZE.



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Revisions:	Date:

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5/15/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
SCHEDULES

Approved:

Phase
CONSTRUCTION DOCUMENTS

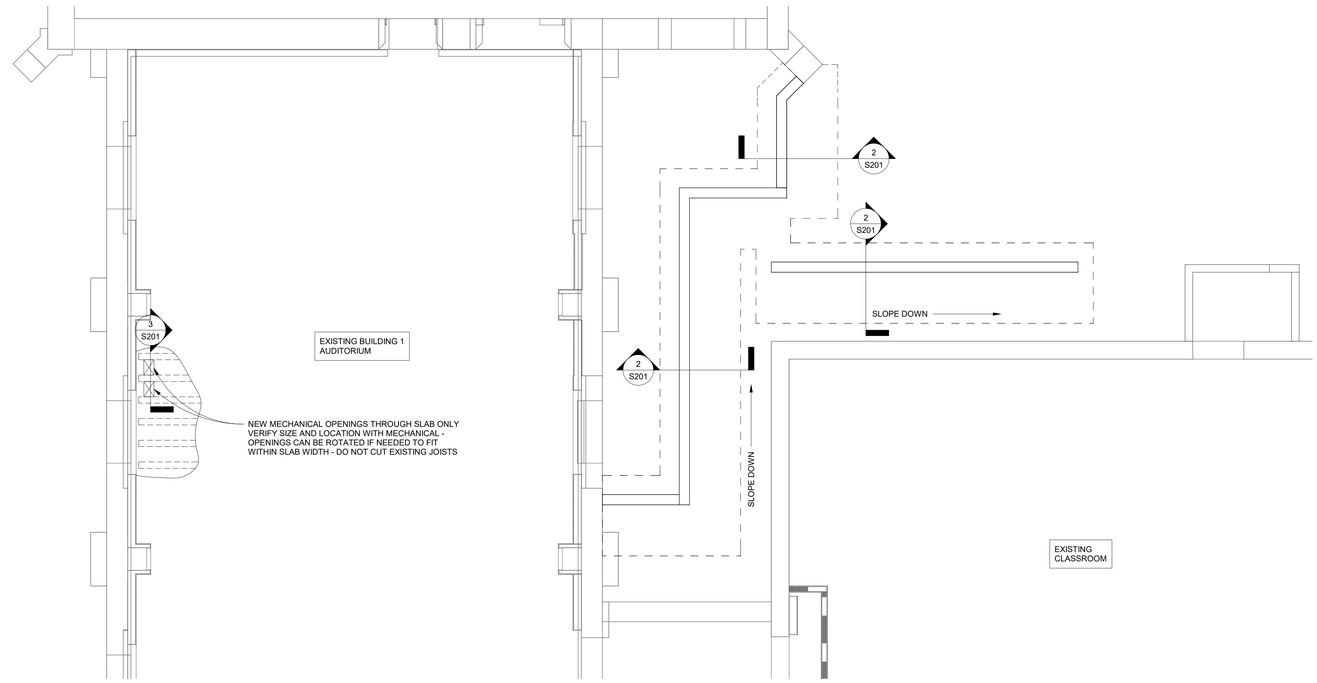
FULLY SPRINKLERED

Project Title
RENOVATE OLD CHAPEL AND AUDITORIUM

Location
SIOUX FALLS, SD

Issue Date 05/15/2020
Checked MAS
Drawn AJM

Project Number SD 1007
Building Number 1 and 5
Drawing Number S003



N

1 PARTIAL EXISTING FOUNDATION/ FIRST FLOOR FRAMING PLAN

1/4" = 1'-0"

EXISTING FOUNDATION/ FIRST FLOOR FRAMING PLAN NOTES:

1. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING). CONTRACTOR TO ALLOT FOR ADDITIONAL CONSTRUCTION COSTS DUE TO INADEQUATE EXISTING CONDITIONS.
2. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED MAY 19, 1920)
3. (E) ON PLAN DENOTES EXISTING.
4. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.
5. SEE DETAIL 1/S201 FOR EXTERIOR MECHANICAL UNIT CONCRETE PAD DETAIL. VERIFY PAD LOCATION AND DIMENSIONS WITH MECHANICAL/ARCH.

Revisions:	Date:

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Drawing Title	PATIO FOUNDATION PLAN - BUILDING 1
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Location	SIOUX FALLS, SD
Issue Date	05/15/2020
Checked	MAS
Drawn	AJM
Project Number	SD 1007
Building Number	1 and 5
Drawing Number	S111-01

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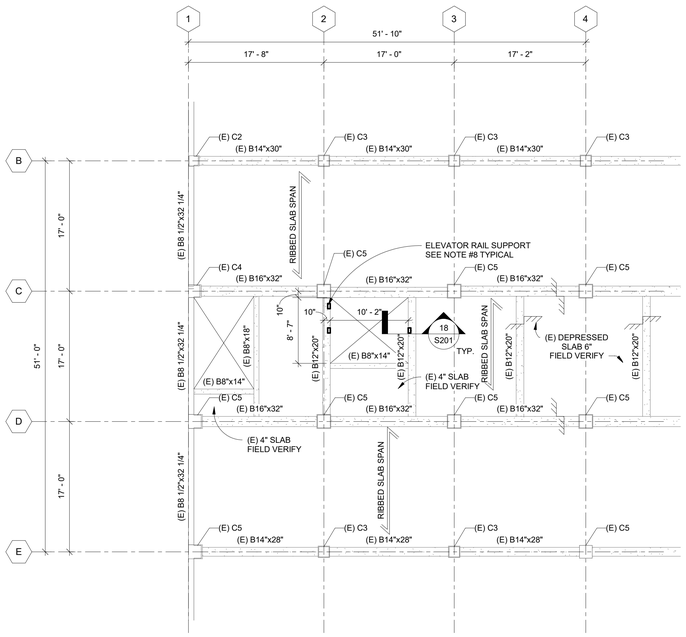

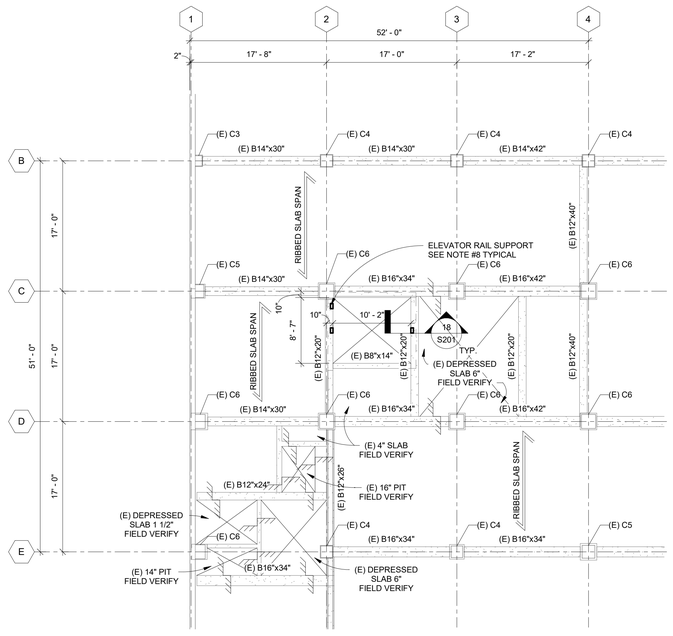

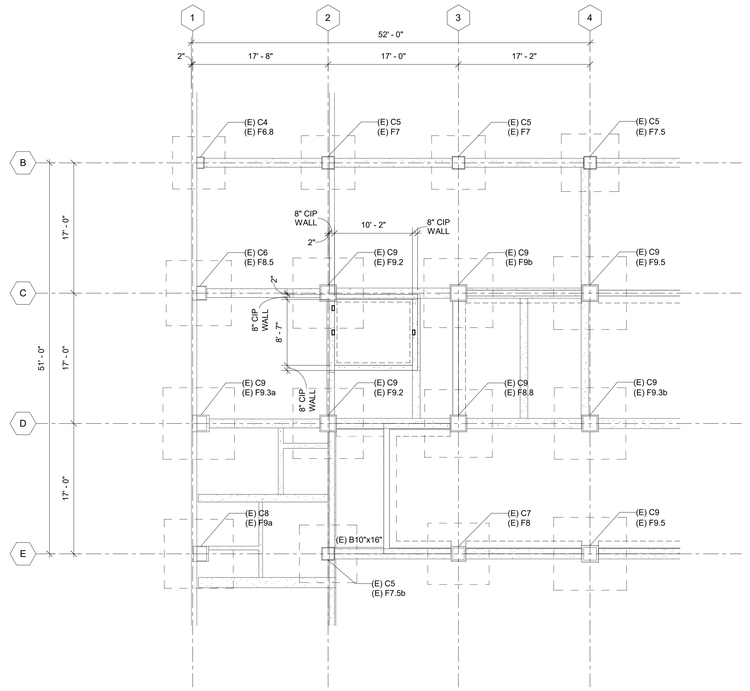

3 PARTIAL EXISTING SECOND FLOOR FRAMING

1/8" = 1'-0"

EXISTING SECOND FLOOR PLAN NOTES:

1. EXISTING TOP OF SLAB ELEVATION IS 1522.8, FIELD VERIFY.
2. EXISTING FLOOR SLAB SYSTEM IS 5"x10" DEEP RIBBED CONCRETE FLOOR SLAB AT 25" OC MAX. WITH 2 1/2" TOPPING, FIELD VERIFY. UNLESS NOTED OTHERWISE ON PLAN.
3. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
4. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED JULY 15, 1948)
5. (E) ON PLAN DENOTES EXISTING.
6. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.
7. RIBBED SLAB SPAN ON PLAN DENOTES EXISTING FLOOR SLAB SPAN DIRECTION.
8. PROVIDE HSS 8x4x5/16" VERTICAL ELEVATOR RAIL SUPPORT POSTS AS REQUIRED BY ELEVATOR SUPPLIER. QUANTITY AND LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.

2 PARTIAL EXISTING FIRST FLOOR FRAMING

1/8" = 1'-0"

EXISTING FIRST FLOOR PLAN NOTES:

1. EXISTING TOP OF SLAB ELEVATION IS 1510.9, FIELD VERIFY.
2. EXISTING FLOOR SLAB SYSTEM IS 5"x10" DEEP RIBBED CONCRETE FLOOR SLAB AT 25" OC MAX. WITH 2 1/2" TOPPING, FIELD VERIFY. UNLESS NOTED OTHERWISE ON PLAN.
3. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
4. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED JULY 15, 1946)
5. (E) ON PLAN DENOTES EXISTING.
6. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.
7. RIBBED SLAB SPAN ON PLAN DENOTES EXISTING FLOOR SLAB SPAN DIRECTION.
8. PROVIDE HSS 8x4x5/16" VERTICAL ELEVATOR RAIL SUPPORT POSTS AS REQUIRED BY ELEVATOR SUPPLIER. QUANTITY AND LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.

1 PARTIAL EXISTING FOUNDATION PLAN

1/8" = 1'-0"

EXISTING FOUNDATION PLAN NOTES:

1. EXISTING TOP OF SLAB ELEVATION IS 1498.98, FIELD VERIFY.
2. EXISTING FLOOR SLAB SYSTEM IS 5" CONCRETE SLAB WITH 1" FINISH, FIELD VERIFY. UNLESS NOTED OTHERWISE ON PLAN.
3. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
4. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED JULY 15, 1946)
5. (E) ON PLAN DENOTES EXISTING.
6. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.

Revisions:	Date:

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JOHN MATHEW LEVAR
SOUTH DAKOTA
5/15/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING PARTIAL FOUNDATION, FIRST AND SECOND FLOOR PLAN - BUILDING 5	Phase: CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM			Project Number: SD 1007
			Building Number: 1 and 5
Location: SIOUX FALLS, SD			Drawing Number: S111-05
Issue Date: 05/15/2020	Checked: MAS	Drawn: AJM	

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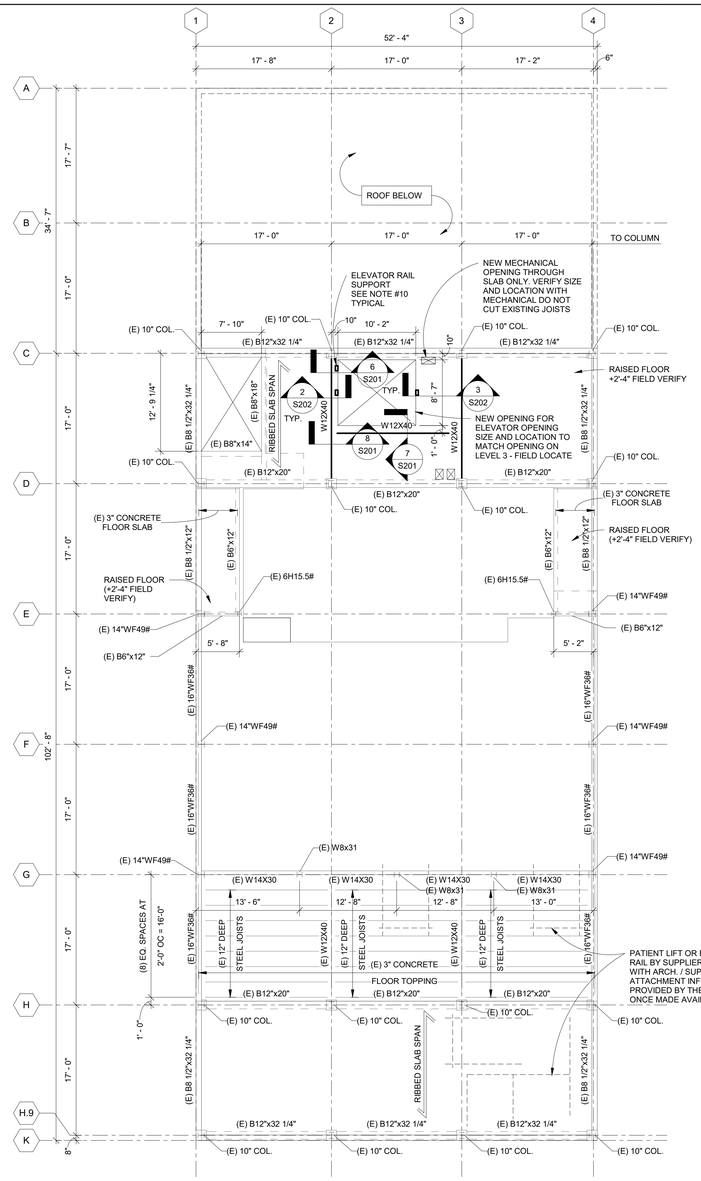

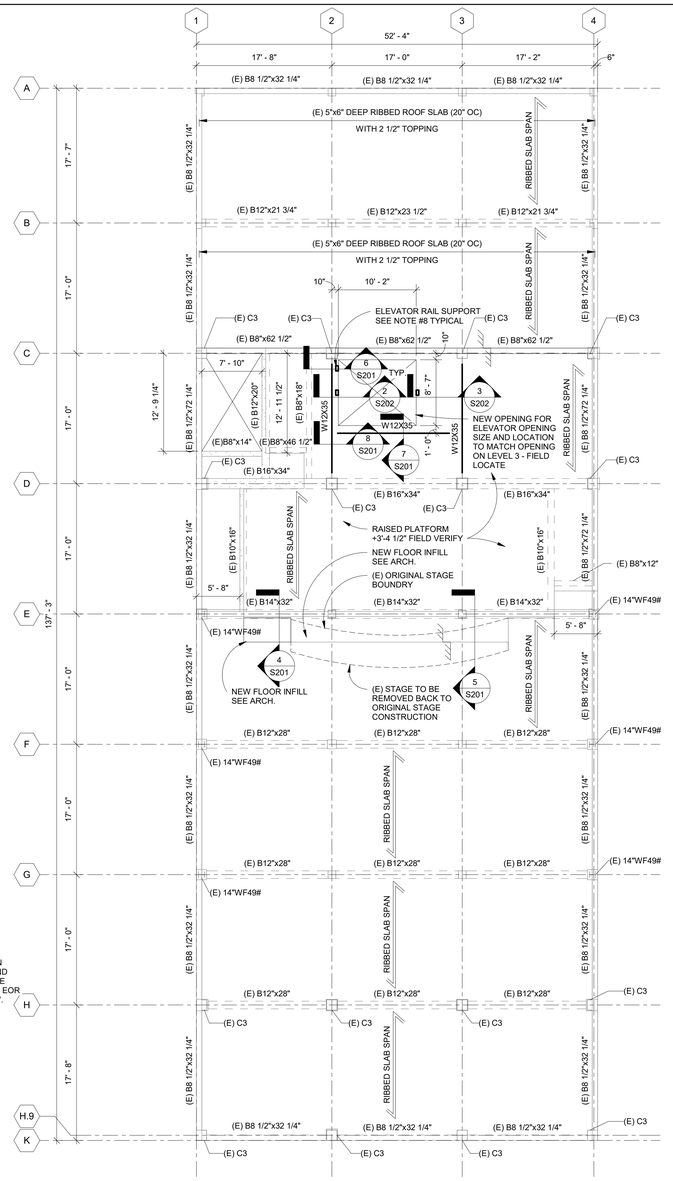

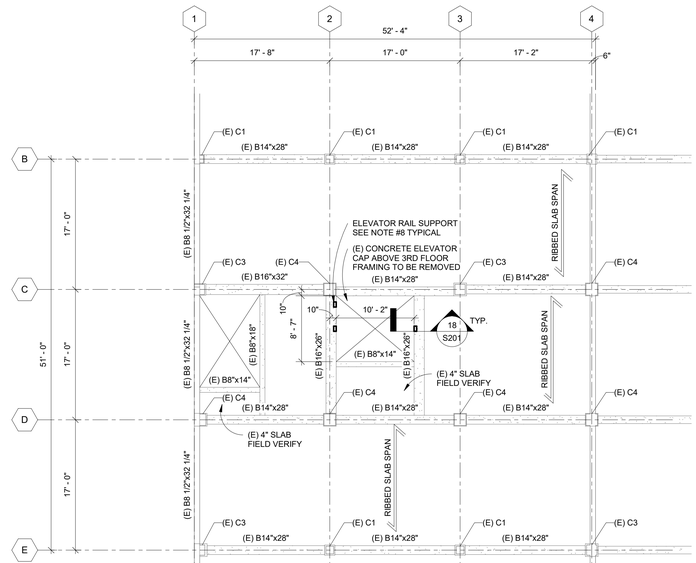

N 1 PARTIAL EXISTING THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

EXISTING THIRD FLOOR PLAN NOTES:

1. EXISTING TOP OF SLAB ELEVATION IS 1534.7, FIELD VERIFY.
2. EXISTING FLOOR SLAB SYSTEM IS 5"x10" DEEP RIBBED CONCRETE FLOOR SLAB AT 25" OC MAX. WITH 2 1/2" TOPPING, FIELD VERIFY. UNLESS NOTED OTHERWISE ON PLAN.
3. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
4. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED JULY 15, 1946)
5. (E) ON PLAN DENOTES EXISTING.
6. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.
7. RIBBED SLAB SPAN — ON PLAN DENOTES EXISTING FLOOR SLAB SPAN DIRECTION.
8. PROVIDE HSS 8x4x5/16" VERTICAL ELEVATOR RAIL SUPPORT POSTS AS REQUIRED BY ELEVATOR SUPPLIER. QUANTITY AND LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.

N 3 EXISTING FIFTH FLOOR - BUILDING 5

1/8" = 1'-0"

EXISTING FIFTH FLOOR PLAN NOTES:

1. EXISTING TOP OF SLAB ELEVATION IS 1558.6, FIELD VERIFY.
2. EXISTING FLOOR SLAB SYSTEM IS 5"x10" DEEP RIBBED CONCRETE FLOOR SLAB AT 25" OC MAX. WITH 2 1/2" TOPPING, FIELD VERIFY. U.N.O.
3. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
4. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED JULY 15, 1946 AND MAY 29, 1984)
5. (E) ON PLAN DENOTES EXISTING.
6. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.
7. RIBBED SLAB SPAN — ON PLAN DENOTES EXISTING FLOOR SLAB SPAN DIRECTION.
8. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF EXISTING FLOOR OPENINGS TO BE FILLED SEE DETAIL 13/S201.
9. SEE DETAILS 14, 15, 16 AND 17/S201 FOR ADDED SUPPORT FOR PATIENT LIFTS AND FALL PROTECTION RAILS. VERIFY LOCATION AND LOAD REQUIREMENTS WITH THE SUPPLIER/ ARCH.
10. PROVIDE HSS 8x4x5/16" VERTICAL ELEVATOR RAIL SUPPORT POSTS AS REQUIRED BY ELEVATOR SUPPLIER. QUANTITY AND LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.
11. SPRINKLER MAIN LOCATIONS, INSERVICE WEIGHTS OF LINES AND HANGER SPACING MUST BE PROVIDED TO SEOR DURING SHOP DRAWING REVIEW FOR APPROVAL.

N 2 EXISTING FOURTH FLOOR - BUILDING 5

1/8" = 1'-0"

EXISTING FOURTH FLOOR PLAN NOTES:

1. EXISTING TOP OF SLAB ELEVATION IS 1546.7, FIELD VERIFY.
2. EXISTING FLOOR SLAB SYSTEM IS 5"x6" DEEP RIBBED CONCRETE FLOOR SLAB AT 25" OC MAX. WITH 2 1/2" TOPPING, FIELD VERIFY. UNLESS NOTED OTHERWISE ON PLAN.
3. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
4. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED JULY 15, 1946)
5. (E) ON PLAN DENOTES EXISTING.
6. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.
7. RIBBED SLAB SPAN — ON PLAN DENOTES EXISTING FLOOR SLAB SPAN DIRECTION.
8. PROVIDE HSS 8x4x5/16" VERTICAL ELEVATOR RAIL SUPPORT POSTS AS REQUIRED BY ELEVATOR SUPPLIER. QUANTITY AND LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.

Revisions:	Date:

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REGISTERED PROFESSIONAL ENGINEER — IBES, INC — 13222 — JOHN MATHEW LEVAR — SOUTH DAKOTA — 5/15/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING THIRD, FOURTH & FITTH FLOORS - BUILDING 5	Phase: CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: RENOVATE OLD CHAPEL AND AUDITORIUM	Project Number: SD 1007
	Building Number: 1 and 5
Location: SIOUX FALLS, SD	Drawing Number: S131-05
Issue Date: 05/15/2020	Checked: MAS
	Drawn: AJM

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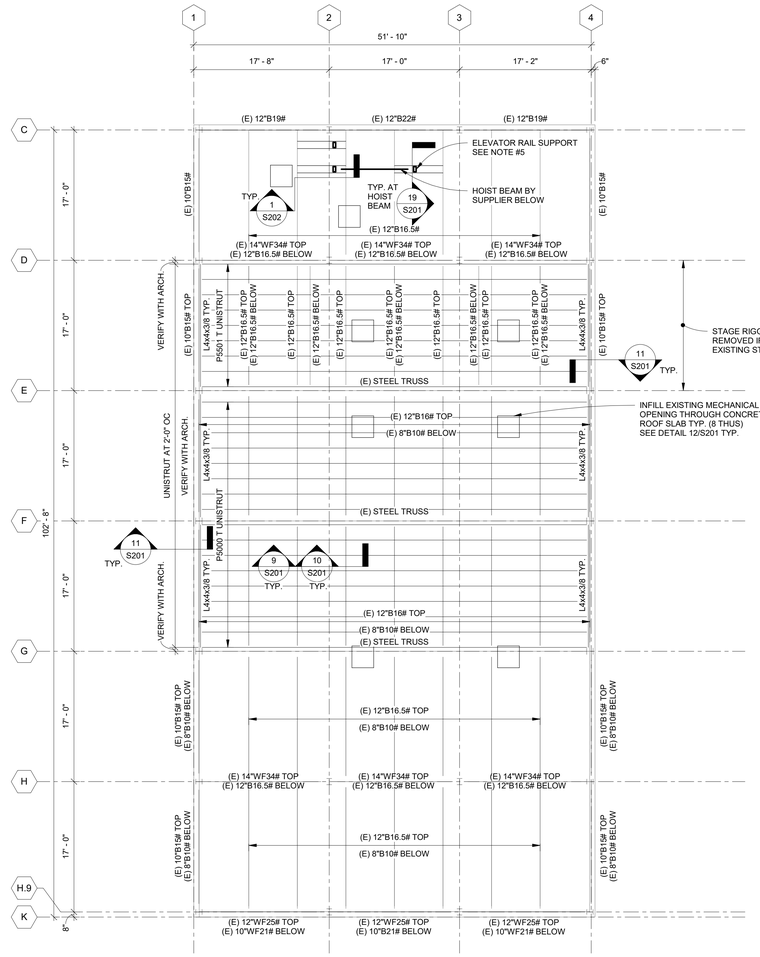

1 EXISTING ROOF FRAMING PLAN

1/8" = 1'-0"

EXISTING FIFTH FLOOR PLAN NOTES:

1. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BY BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
2. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS. (DATED JULY 15, 1946)
3. (E) ON PLAN DENOTES EXISTING.
4. CONTRACTOR TO VERIFY ALL NEW ELEMENTS WITH ARCHITECT AND MECHANICAL PRIOR TO CONSTRUCTION. IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN ON THIS DRAWING, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IN WRITING.
5. PROVIDE HSS 8x4x5/16" VERTICAL ELEVATOR RAIL SUPPORT POSTS AS REQUIRED BY ELEVATOR SUPPLIER. QUANTITY AND LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.
6. SEE DETAIL 4/S202 FOR ROOF OPENING SUPPORT FOR NEW MECHANICAL OPENINGS. VERIFY SIZE AND LOCATIONS OF OPENINGS WITH MECHANICAL.

Revisions:	Date:

CONSULTANT

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AST PROJECT NUMBER: SD 1007

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REGISTERED PROFESSIONAL ENGINEER
REG. NO.
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JOHN MATHEW LEVAR
SOUTH DAKOTA
5/15/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	EXISTING ROOF FRAMING PLAN - BUILDING 5
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Location	SIOUX FALLS, SD
Issue Date	05/15/2020
Checked	MAS
Drawn	AJM
Project Number	SD 1007
Building Number	1 and 5
Drawing Number	S161-05

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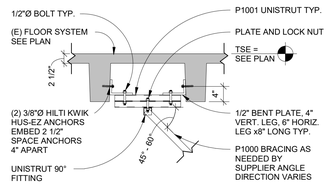
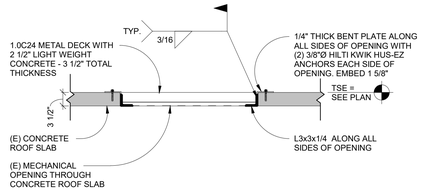
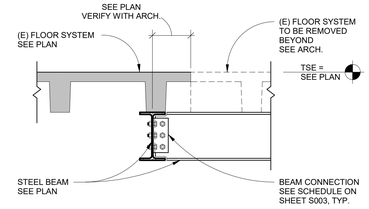


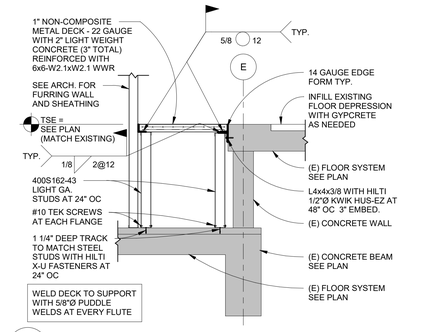
16 **DETAIL - PATIENT LIFT/ FALL PROTECTION SUPPORT**
3/4" = 1'-0"



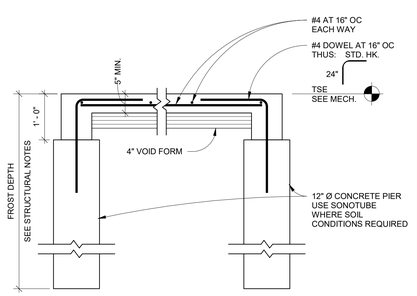
12 **DETAIL - SLAB INFILL AT ROOF**
3/4" = 1'-0"



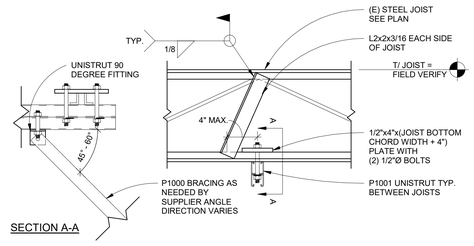
8 **SECTION**
3/4" = 1'-0"



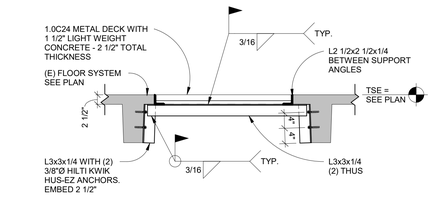
4 **SECTION**
1/2" = 1'-0"



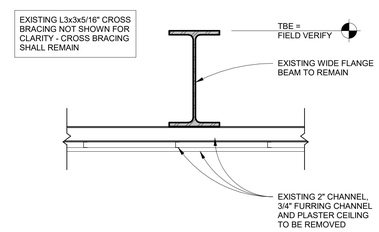
1 **SECTION**
3/4" = 1'-0" (AST S2000b)



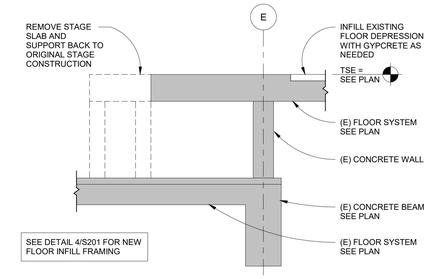
17 **DETAIL - PATIENT LIFT / FALL PROTECTION SUPPORT**
1 1/2" = 1'-0"



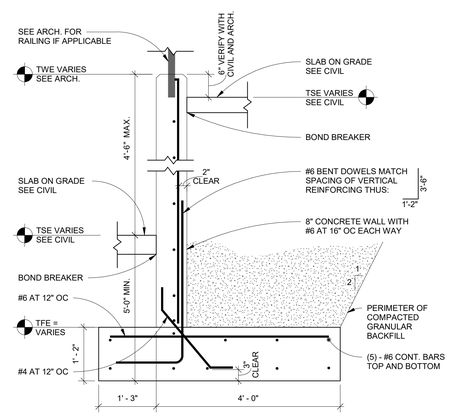
13 **DETAIL - SLAB INFILL AT 5TH FLOOR**
3/4" = 1'-0"



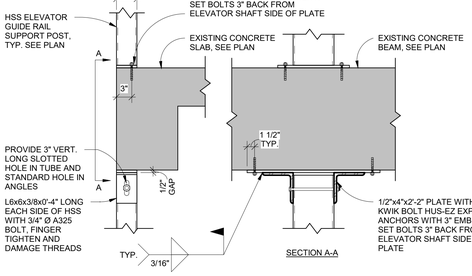
9 **SECTION**
1 1/2" = 1'-0"



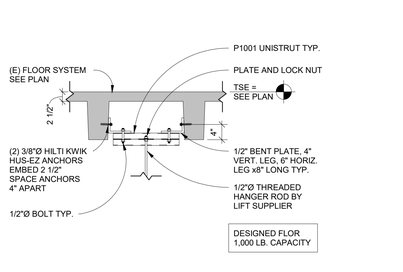
5 **SECTION**
1/2" = 1'-0"



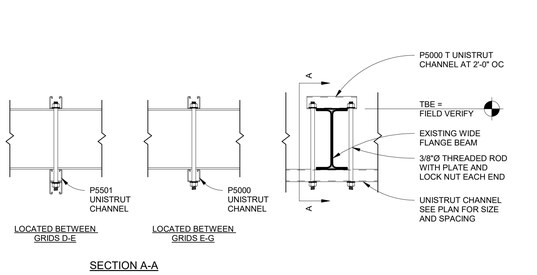
2 **RETAINING WALL SECTION**
3/4" = 1'-0" (AST S2024)



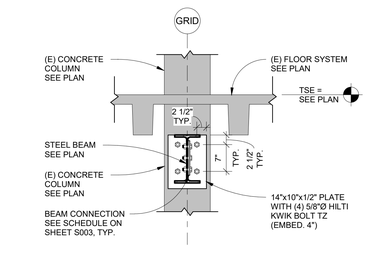
18 **SECTION**
1" = 1'-0"



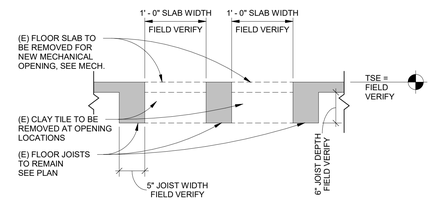
14 **DETAIL - PATIENT LIFT/ FALL PROTECTION SUPPORT**
3/4" = 1'-0"



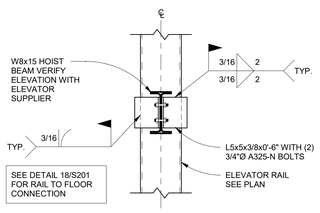
10 **DETAIL**
1 1/2" = 1'-0"



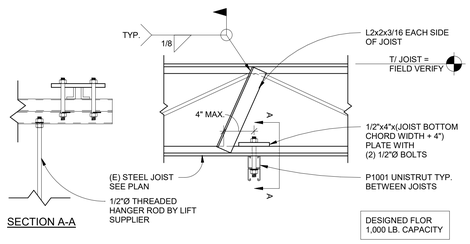
6 **SECTION**
3/4" = 1'-0"



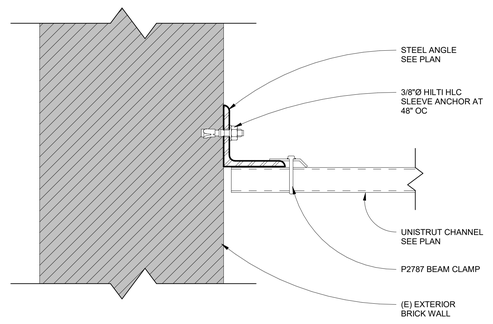
3 **SECTION**
1" = 1'-0"



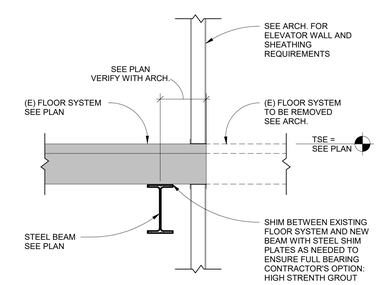
19 **SECTION**
1" = 1'-0"



15 **DETAIL - PATIENT LIFT / FALL PROTECTION SUPPORT**
1 1/2" = 1'-0"



11 **DETAIL**
3" = 1'-0"



7 **SECTION**
3/4" = 1'-0"

Revisions:	Date:

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AST PROJECT NUMBER:
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REGISTERED PROFESSIONAL ENGINEER
REG. NO.
13222
JOHN MATHEW LEVAR
SOUTH DAKOTA
5/15/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
SECTIONS AND DETAILS	CONSTRUCTION DOCUMENTS	RENOVATE OLD CHAPEL AND AUDITORIUM	SD 1007
			Building Number: 1 and 5
Approved:	FULLY SPRINKLERED	Location: SIOUX FALLS, SD	Drawing Number: S201
		Issue Date: 05/15/2020 / Checked: MAS / Drawn: AJM	

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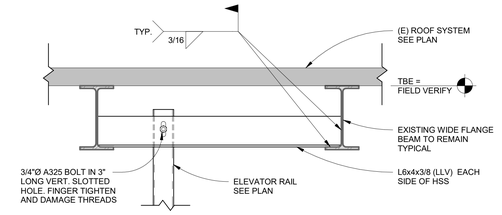
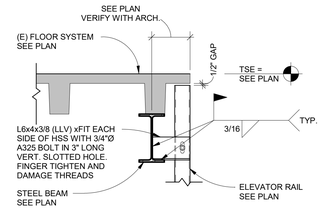
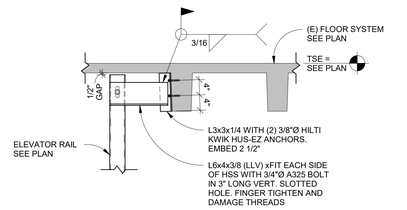


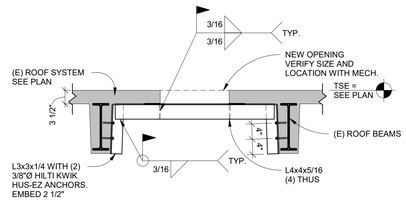
1 SECTION
1" = 1'-0"



2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



4 DETAIL
3/4" = 1'-0"

Revisions:	Date:

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AST PROJECT NUMBER:
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REG. NO.
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JOHN MATHEW LEVAR
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5/15/2020

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
SECTIONS AND DETAILS

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
RENOVATE OLD CHAPEL AND AUDITORIUM

Location
SIOUX FALLS, SD

Issue Date
05/15/2020

Checked
MAS

Drawn
AJM

Project Number
SD 1007

Building Number
1 and 5

Drawing Number
S202

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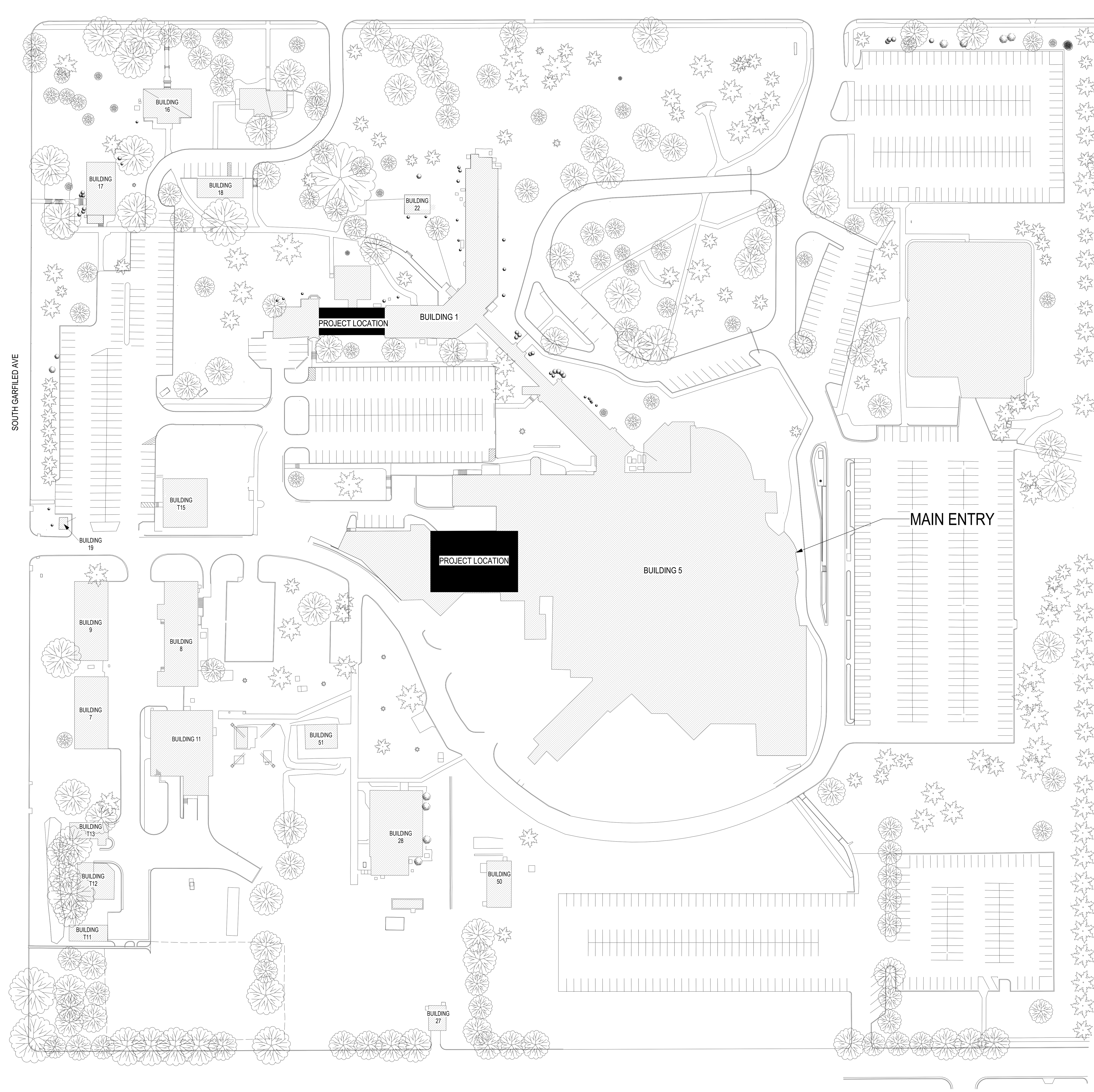
22ND STREET



1 SITE PLAN
1" = 60'-0"

SITE / STAGING PLAN GENERAL NOTES:

1. FENCE TO BE CHAIN LINK. GATES MUST BE LOCKED AT ALL TIMES OTHER THAN ENTRY/EXIT. REQUEST PADLOCKS FROM COR.
2. MAINTAIN 1.5' SEPARATION FROM FENCE TO SIDEWALKS.
3. PROVIDE SEDIMENT TRACKING DRIVE-OFF AT ALL VEHICLE ACCESSES. ANY TRACKED SEDIMENT MUST BE SWEPT UP WITHIN 24 HOURS.
4. PROVIDE INLET PROTECTION AT THE CATCH BASINSWITHIN THE STAGING AREA. MAINTAIN THROUGH THE LIFE OF THE PROJECT.
5. KEEP ANY STORM SEWER MANHOLE WITHIN THE STAGING AREA ACCESSIBLE.
6. STORAGE OF COMBUSTIBLE MATERIALS WITHIN 30 FEET OF ANY BUILDING IS NOT PERMITTED.
7. CLEAR AND GRUB TREE AS NOTED. REPLACE WITH 2" BALLED AND BURLAPPED AMERICAN LINDEN. WARRANTY NEW TREE FOR 1 YEAR.
8. ALL DISTURBED AREAS SHALL BE RESTORED WITH 6" MINIMUM SCREENED TOPSOIL AND STABILIZED WITH SALT RESISTANT SOD. WATER AND MAINTAIN SOD
9. UNTIL IT IS ESTABLISHED/FULLY-ROOTED. PROVIDE A MINIMUM OF 3 MOWINGS.
10. CONTRACTOR MAY PARK ONE (1) SEMI TRAILER IN (AREA MARKED ON SITE PLAN), AND APPROVED BY THE COR, FOR STORAGE OF EQUIPMENT AND MATERIALS. THE CONTRACTOR MAY PARK UP TO ________ WORKER VEHICLESAT________________. ALL OTHER STORAGE AND PARKING MUST BE WITHIN FENCED AREA SHOWN FOR CURRENT AREAS OF CONSTRUCTION. RELOCATION OF THE SEMI TRAILER WITH THIS PARKING AREA MAY BE REQUIRED DURING CONSTRUCTION.

Revisions:	Date:

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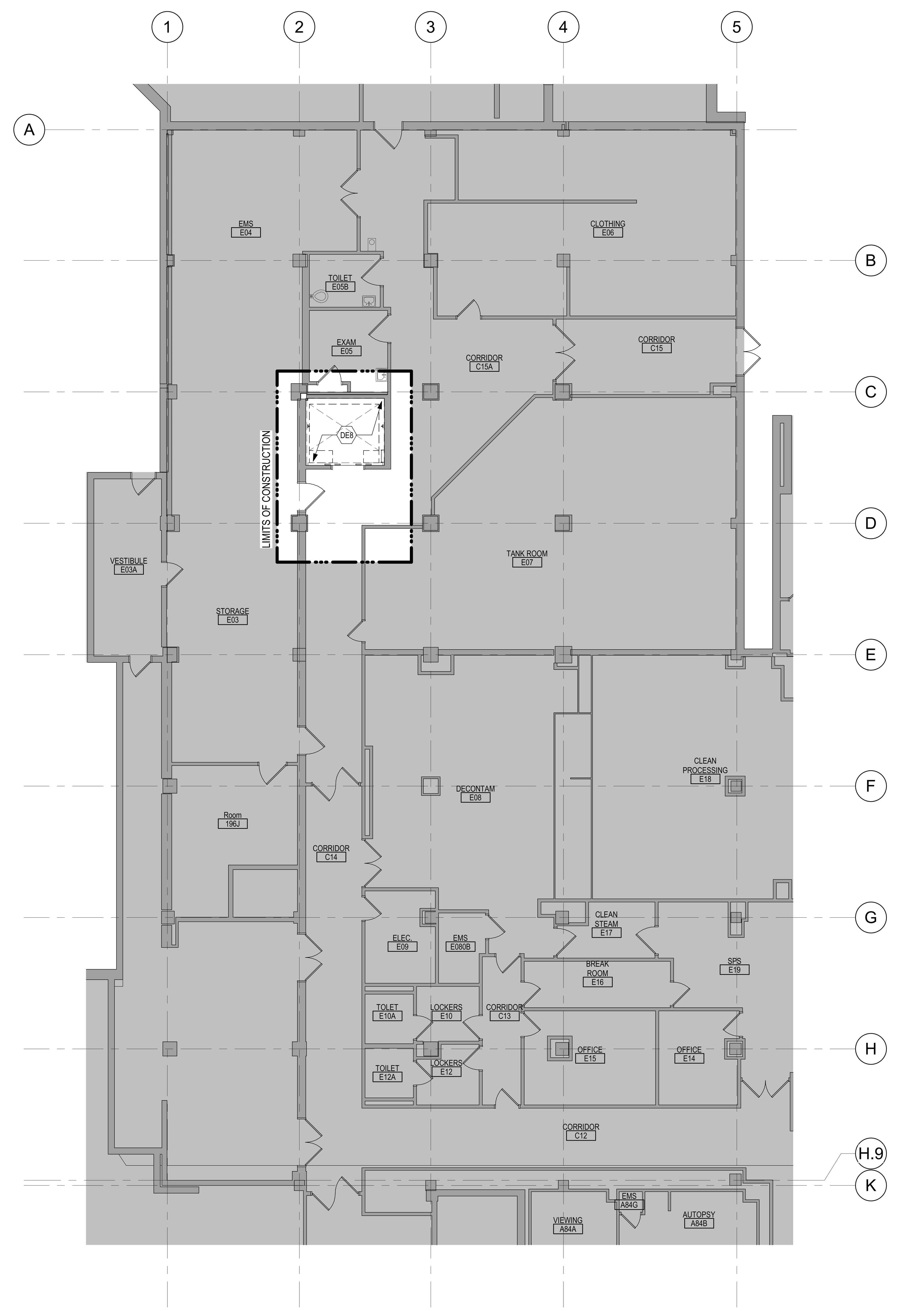
Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL SITE & STAGING PLAN
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE OLD CHAPEL AND AUDITORIUM
Location	Sioux Falls, SD
Issue Date	05/15/2020
Checked	Checker
Drawn	GJB
Project Number	438-19-301
Building Number	1 & 5
Drawing Number	AS100



1 GROUND FLOOR DEMOLITION PLAN - BUILDING 5

1/8" = 1'-0"

DEMOLITION PLAN KEYED NOTES

- DE1 REMOVE FLOOR FINISH IN ITS ENTIRETY. PATCH & PREP FLOOR FOR SCHEDULED FINISH. SEE SPECIFICATION SECTION 09 05 16 SUBSURFACE PREPARATION FOR FLOOR FINISHES
- DE2 REMOVE CEILING IN ITS ENTIRETY. INCLUDING ALL MECHANICAL & ELECTRICAL ITEMS. SEE MECHANICAL / ELECTRICAL.
- DE3 REMOVE GYP BD ON ONE SIDE OF PARTITION AS REQUIRED. SEE PLANS AND MECHANICAL / ELECTRICAL PLANS FOR ADDITIONAL INFORMATION
- DE4 REMOVE WOOD SILL AND TRIM AT WINDOW.
- DE5 CUT OPENING IN PARTITION AS REQUIRED FOR INSTALLATION OF DOOR AND FRAME AND/ OR BORROWED LIGHT AS SCHEDULED. SEE PLAN
- DE6 REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING. -SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION
- DE7 REMOVE BASE CABINETS, UPPER CABINETS, TALL CABINETS AND/ OR COUNTERTOP
- DE8 REMOVE ELEVATOR CAB, DOORS, RAILS AND ALL ASSOCIATED HARDWARE. SEE MEP PLANS FOR ADDITIONAL INFORMATION.
- DE9 REMOVE PORTION OF SOFFIT ABOVE AS REQUIRED. SEE PLANS FOR ADDITIONAL INFORMATION
- DE10 REMOVE PORTION OF CEILING AS REQUIRED. SEE PLANS FOR ADDITIONAL INFORMATION
- DE11 SAW CUT CONCRETE FLOOR AS REQUIRED. SEE FLOOR PLANS FOR ADDITIONAL WORK
- DE12 REMOVE BASE CABINETS, UPPER CABINETS, TALL CABINETS AND/ OR COUNTERTOP. SALVAGE FOR REINSTALLATION. SEE PLAN FOR ADDITIONAL INFORMATION
- DE13 REMOVE BUILT UP ROOFING SYSTEM IN ITS ENTIRETY TO TOP OF ROOF DECK. PREP SURFACE FOR REROOFING
- DE14 REMOVE METAL FLASHING, WOOD BLOCKING AND ALL ASSOCIATED HARDWARE AT PARAPET, METAL SUPPERS AND MECHANICAL EQUIPMENT AS REQUIRED, -SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
- DE15 REMOVE CONCRETE EQUIPMENT PAD AND/OR CURB. SEE MECHANICAL FOR ADDITIONAL INFORMATION
- DE16 REMOVE ALUMINUM WINDOW SYSTEM AND ALL ASSOCIATED HARDWARE
- DE17 REMOVE PORTION OF CONCRETE BLOCK WALL, HOLLOW METAL DOOR FRAMES AND WOOD DOORS. SEE PLANS FOR ADDITIONAL INFORMATION.
- DE18 REMOVE METAL COUNTER WEIGHT SYSTEM AND ALL ASSOCIATED HARDWARE
- DE19 REMOVE CONCRETE AND METAL PAN STAIRS, RAILING, STRINGERS AND ALL ASSOCIATED HARDWARE.
- DE20 SAW CUT CONCRETE CURB AT BASE OF PARTITION. GRIND FLOOR LEVEL AND PREP FOR FINISHES AS SCHEDULED
- DE21 REMOVE METAL STAIRS, RAILING, STRINGERS AND ALL ASSOCIATED HARDWARE.
- DE22 REMOVE ELEVATOR HOIST EQUIPMENT AND SWITCH GEAR. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
- DE23 REMOVE CONCRETE FLOOR STRUCTURE AND CMU WALLS TO FLOOR BELOW. SEE PLAN FOR ADDITIONAL WORK IN THIS AREA.
- DE24 REMOVE DOOR, FRAME AND ALL ASSOCIATED HARDWARE. SALVAGE FOR REINSTALLATION. SEE PLAN
- DE25 REMOVE PLYWOOD AND ALL ASSOCIATED INFILL MATERIAL BEHIND PLYWOOD AT OPENING IN WALL. PREP OPINING FOR WINDOW. SEE PLAN FOR ADDITIONAL INFORMATION.
- DE26 REMOVE ENTIRELY CONCRETE RAMP-SEE CIVIL DRAWINGS
- DE27 REMOVED RADIATOR. PATCH WALL TO MATCH. SEE MECHANICAL FOR ADDITIONAL INFORMATION
- DE28 REMOVE FRITTED / PRIVACY INSULATED GLASS INSERT, WINDOW FRAME TO REMAIN. SEE PLANS FOR ADDITIONAL INFORMATION.
- DE29 REMOVE ROOF MOUNTED HVAC MECHANICAL AND / OR ROOF DRAIN. SEE MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL INFORMATION
- DE30 REMOVE WALL AND FLOOR EXPANSION JOINT COVERS AND ALL ASSOCIATED HARDWARE
- DE31 REMOVE SIGN. SALVAGE FOR REINSTALLATION. SEE PLAN FOR ADDITIONAL INFORMATION
- DE32 REMOVE CEILING IN THIS AREA AS REQUIRED FOR MEP WORK. SALVAGE CEILING WHERE APPROPRIATE FOR REINSTALLATION. SEE PLANS FOR ADDITIONAL WORK
- DE33 REMOVE METAL LADDER WITH CAGE AND METAL PLATFORM WITH STEEL SUPPORT SYSTEM ABOVE, APPROXIMATELY 19'-0". SALVAGE AND RETURN TO OWNER.
- DE34 REMOVE DOORS. FRAME TO REMAIN
- DE35 REMOVE AND MODIFY TOP PORTION OF WALL FOR NEW MECH PENETRATION. PATCH AS NEEDED.
- DE36 REMOVE WDWS AS REQUIRED FOR MECH WORK.
- DE37 REMOVE INFILL @ EXISTING DOOR OPENING. RESTORE TO ORIGINAL.
- DE38 REMOVE ENTIRELY CURTAINWALL & BRICK/MASONRY SILL WALL. SEE PLAN FOR ADDITIONAL INFORMATION
- DE39 REMOVE CONC STAIRS AS NEEDED TO INSTALL NEW PATIO. SEE CIVIL DRAWINGS FOR ADDITIONAL DEMO.
- DE40 REMOVE HOLLOW METAL FRAME(S). SEE PLAN FOR ADDITIONAL INFORMATION
- DE41 REMOVE MASONRY WALL AS REQUIRED FOR DOOR AS SCHEDULED.
- DE42 REMOVE TEXTURED GLASS WINDOW PANES FOR NEW WINDOW PANE INSTALL. SALVAGE WINDOW GRILLE FOR REINSTALL SEE ELEVATIONS FOR EXTENT.
- DE43 REMOVE LOUVER & PANEL INFILLS AT WINDOW OPENINGS. SEE ELEVATIONS FOR EXTENT.
- DE44 REMOVE ENTIRELY PAINT ON STONE TRIM AROUND WINDOW/DOOR OPENING.
- DE45 REMOVE CRACKED AND FLAKED PAINT AND CLEAN & PREP ELEMENTS OF FIREPLACE AS NEEDED TO RESTORE TO ORIGINAL. SEE ELEVATION & ENLARGED PLAN FOR NOTES FOR ADDITIONAL PREP WORK.
- DE46 SAWCUT OPENINGS IN CONC FLOOR PLANK AS REQUIRED FOR MECH DUCT PENETRATIONS. SEE MECH DRAWINGS FOR ADD NOTES & EXTENT.
- DE47 REMOVE MAS BLOCK AND PLASTER FINISH AT ORIGINAL OPENING TO PULPIT. PATCH & PREP WALL & FLOOR TO MATCH ADJACENT FINISHES.
- DE48 CLEAN & PREP ALL INTERIOR SURFACES OF WDW FRAMES TO RECEIVE TO FINISH.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

DEMOLITION GENERAL NOTES

1. GENERAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK, PHASING AND SEQUENCING WITH THE OWNER. ANY INFORMATION REGARDING SEQUENCING PROVIDED IN THESE DOCUMENTS IS FOR ARCHITECT - OWNER PLANNING PURPOSES ONLY, UNLESS NOTED OTHERWISE.
2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES FOR THE DEMOLITION WORK REQUIRED FOR THIS PROJECT.
3. WHERE PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE PARTITION ALONG WITH ALL ITEMS CONTAINED WITHIN, INCLUDING DOORS, FRAMES, HARDWARE, SIDELIGHTS, WINDOWS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
4. WHERE FLOOR FINISH IS INDICATED TO BE DEMOLISHED, REMOVE FINISH TO FLOOR SLAB AS REQUIRED AND PREPARE SLAB SURFACE FOR SCHEDULED FINISHES WITHIN AREA TO BE REMODELED, UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE FOR EXISTING FLOOR FINISHES TO REMAIN UNDISTURBED.
5. WHERE CEILING IS INDICATED TO BE DEMOLISHED, REMOVE CEILING SUSPENSION SYSTEM ALONG WITH ALL ASSOCIATED MECHANICAL AND ELECTRICAL ITEMS, UNLESS NOTED OTHERWISE. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF CONDUIT, PIPING AND DUCTWORK DEMOLITION WITHIN AREA TO BE REMODELED.
6. WHERE INDICATED, REMOVE ALL WALL/PARTITION EXISTING FINISHES AND PREPARE THE SURFACES FOR SCHEDULED FINISHES, SEE FINISH SCHEDULE FOR FINISHES.
7. ALL DISTURBED AREAS, WALLS, PARTITIONS, FLOORS, ETC, DAMAGED BY DEMOLITION WORK SHALL BE PATCHED TO MATCH ADJACENT AREA.
8. OWNER RESERVES THE RIGHT OF FIRST REFUSAL OF ALL SALVAGED ITEMS SUCH AS: DOORS, LIGHT FIXTURES, PLUMBING FIXTURES ETC.
9. SALVAGED ITEMS SCHEDULED FOR REUSE SHALL BE CLEANED, RESTORED AND/OR REFINISHED TO LIKE NEW CONDITION, UNLESS NOTED OTHERWISE.
10. DO NOT REMOVE ANY EXISTING STRUCTURAL SUPPORT MEMBERS SUCH AS COLUMNS, BEAMS, JOISTS, LOAD-BEARING PARTITIONS ETC, UNTIL ADEQUATE PERMANENT OR TEMPORARY SUPPORT IS IN PLACE. ALL EXISTING STRUCTURAL MEMBERS SHALL BE ADEQUATELY PROTECTED, COORDINATE WITH STRUCTURAL ENGINEER.
11. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED DEMOLITION AND PREP WORK.
12. WALL AND CEILING MOUNTED ITEMS SHOWN DASHED, SUCH AS WALL CABINETS, SHELVING, CUBICLE CURTAIN TRACKS, PROJECTION SCREENS ETC, SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
13. WITHIN ALL EXISTING ROOMS/SPACES RECEIVING SCHEDULED FLOOR, OR WALL, OR CEILING FINISHES, REMOVE ALL EXISTING FLOOR, OR WALL, OR CEILING FINISHES DOWN TO THE SUBSTRATE. INCLUDE THE REMOVAL OF ALL ITEMS LOCATED WITHIN THE EXISTING FINISH REMOVALS UNO PATCH AND PREP ALL SUBSTRATES TO RECEIVE SCHEDULED FINISHES. FOR ADDITIONAL INFORMATION, SEE KEYNOTED ITEMS, FINISH PLANS AND/OR SCHEDULES, STRUCTURAL, MECHANICAL AND ELECTRICAL.

DEMOLITION PLAN SYMBOLS

Symbol	Description	Symbol	Description
(solid wall)	EXISTING WALL TO REMAIN	(door)	EXISTING DOOR AND FRAME TO REMAIN
(dashed wall)	WALL OR PARTITION TO BE REMOVED	(dashed door)	EXISTING DOOR AND FRAME TO BE DEMOLISHED
(dashed line)	DASHED LINE INDICATES ITEM TO BE REMOVED (UNO)	DE10	KEY NOTE
A	GRIDLINE		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

NOTE:
COORDINATE GENERAL DEMOLITION WORK WITH ABATEMENT AND REMEDIATION WORK.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
GROUND LEVEL DEMOLITION PLAN - BUILDING 5	CONSTRUCTION DOCUMENTS	RENOVATE OLD CHAPEL AND AUDITORIUM	438-19-301
			Building Number: 1 & 5
Approved:	FULLY SPRINKLERED	Location: Sioux Falls, SD	Drawing Number: AD101-05
		Issue Date: 05/15/2020 / Checked: -- / Drawn: GJB	

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