

RENOVATE BUILDING 28 FIRST FLOOR EAST

R RTP

St. Cloud VA Health Care System
Main Campus, Saint Cloud, Minnesota

SHEET INDEX LEGEND	
	NOT ISSUED
■	ISSUED
R	ISSUED FOR REFERENCE ONLY
N	ISSUED AS NOTED

SHEET INDEX - GENERAL			
SHEET NO.	SHEET TITLE	11/01/19 SD	01/24/20 DD
G000	COVER SHEET		
G001	ABBREVIATIONS		
G101	BASEMENT LEVEL LIFE SAFETY PLAN		
G111	FIRST LEVEL LIFE SAFETY PLAN		
G121	SECOND LEVEL LIFE SAFETY PLAN		
G011	INFECTION CONTROL & PHASING PLANS		
G012	CONSTRUCTION PHASING PLANS		
H001	HAZARDOUS MATERIALS PLAN / ASBESTOS / LEAD		

SHEET INDEX - CIVIL			
SHEET NO.	SHEET TITLE	SD	DD
C101	DEMOLITION, GRADING, AND UTILITY PLANS		
CS101	CIVIL SITE PLAN		

SHEET INDEX - STRUCTURAL			
SHEET NO.	SHEET TITLE	SD	DD
S000	TITLE SHEET		
S100	GENERAL NOTES		
S110	PARTIAL BASEMENT PLANS AND DETAILS		
S200	PARTIAL FIRST FLOOR PLAN		
S210	ATTIC FLOOR PLAN		
S300	SECTIONS AND DETAILS		
S301	SECTIONS AND DETAILS		

SHEET INDEX - ARCHITECTURAL			
SHEET NO.	SHEET TITLE	SD	DD
AD101	BASEMENT DEMOLITION PLAN		
AD111	FIRST FLOOR DEMOLITION PLAN		
AD121	SECOND FLOOR DEMOLITION PLAN		
AD131	ATTIC FLOOR DEMOLITION PLAN		
AE101	BASEMENT FLOOR PLAN		
AE11-A	FIRST FLOOR PLAN - AREA A		
AE11-B	FIRST FLOOR PLAN - AREA B		
AE121	SECOND FLOOR PLAN		
AE131	ATTIC FLOOR PLAN		
AC101	BASEMENT REFLECTED CEILING PLAN		
AC111	FIRST FLOOR REFLECTED CEILING PLAN		
AE211	INTERIOR ELEVATIONS		
AE212	INTERIOR ELEVATIONS		
AE213	BATHROOM TYPICALS		
AE301	EXTERIOR STAIR AND EXTERIOR DETAILS		
AE300	INTERIOR DETAILS		
AE311	INTERIOR DETAILS		
AE320	CEILING AND CONSTRUCTION DETAILS		
AE301	INTERIOR PARTITION TYPES AND DETAILS		
AE302	OPENING SCHEDULES AND ELEVATIONS		
AE400	MOUNTING HEIGHTS		

SHEET INDEX - INTERIOR			
SHEET NO.	SHEET TITLE	SD	DD
AF101	FIRST FLOOR FINISH PLAN		
AF200	MATERIAL AND ROOM FINISH SCHEDULE		
IF101	BASEMENT FLOOR EQUIPMENT AND FURNITURE PLAN		
IF11-A	FIRST FLOOR FURNITURE PLAN AREA A		
IF11-B	FIRST FLOOR FURNITURE PLAN AREA B		
QE11-A	FIRST FLOOR EQUIPMENT PLAN AREA A		
QE11-B	FIRST FLOOR EQUIPMENT PLAN AREA B		

SHEET INDEX - MECHANICAL			
SHEET NO.	SHEET TITLE	SD	DD
M000	MECHANICAL TITLE SHEET		
MD101	BASEMENT HVAC DEMOLITION PLAN		
MH101	BASEMENT HVAC FLOOR PLAN		
MH111	FIRST FLOOR HVAC DEMOLITION PLAN		
MH111	FIRST FLOOR HVAC FLOOR PLAN		
MH121	SECOND FLOOR MECHANICAL PLAN		
MD131	ATTIC FLOOR MECHANICAL DEMOLITION PLAN - PHASE 1		
MH131	ATTIC FLOOR MECHANICAL PLAN - PHASE 1		
MH132	ATTIC FLOOR MECHANICAL DEMOLITION PLAN - PHASE 2		
MH132	ATTIC FLOOR MECHANICAL PLAN - PHASE 2		
MH133	ATTIC FLOOR MECHANICAL DEMOLITION PLAN - PHASE 3		
MH133	ATTIC FLOOR MECHANICAL PLAN - PHASE 3		
MH134	ATTIC FLOOR MECHANICAL DEMOLITION PLAN - PHASE 4		
MH134	ATTIC FLOOR MECHANICAL PLAN - PHASE 4		
MP101	BASEMENT PIPING DEMOLITION PLAN		
MP101	BASEMENT PIPING PLAN		
MDP111	FIRST FLOOR PIPING DEMOLITION PLAN		
MP111	FIRST FLOOR PIPING PLAN		
MH400	ENLARGED CHILLER ROOM		
MH401	ATTIC SECTIONS AND ISOMETRICS		
MH402	ATTIC ISOMETRIC - PHASE 3 AND 4		
MH403	ARJ DETAIL		
MH404	SERVICE ACCESS PLAN		
MH405	SERVICE ACCESS SECTIONS		
MH406	SECOND FLOOR BALANCING PLAN		
MH500	MECHANICAL DETAILS		
MH501	CHILLED WATER SYSTEM PIPING DIAGRAM		
MH502	MECHANICAL SEQUENCES OF OPERATION		
MH600	MECHANICAL SCHEDULES		
MH601	MECHANICAL ELECTRICAL SCHEDULES		
MH602	MECHANICAL ELECTRICAL SCHEDULES		
MH603	MECHANICAL ELECTRICAL SCHEDULES		

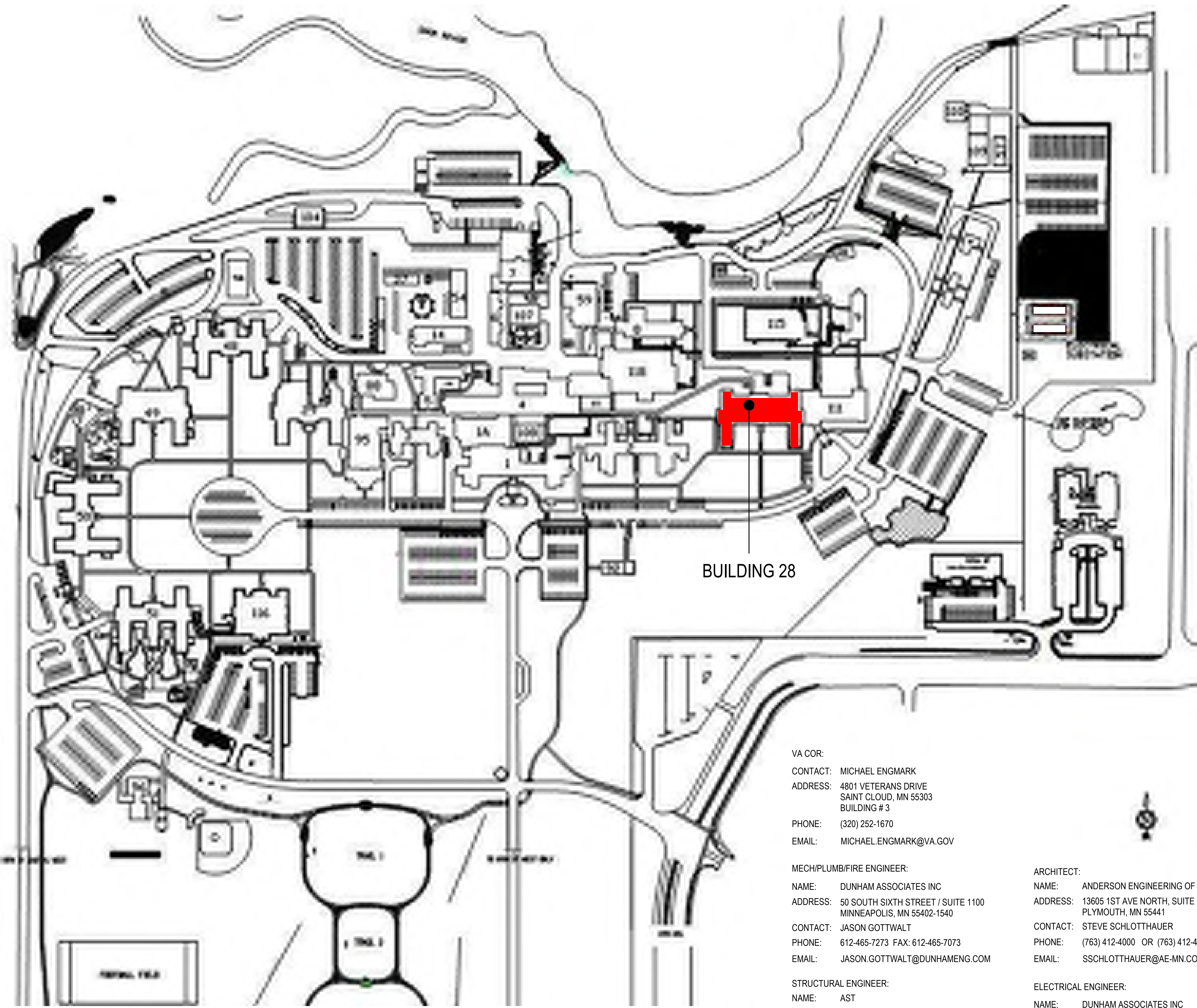
SHEET INDEX - FIRE PROTECTION			
SHEET NO.	SHEET TITLE	11/01/19 SD	01/24/20 DD
FP101	BASEMENT FIRE PROTECTION PLAN		
FP111	FIRST FLOOR FIRE PROTECTION PLAN		
FP131	ATTIC FLOOR FIRE PROTECTION PLANS		

SHEET INDEX - PLUMBING			
SHEET NO.	SHEET TITLE	SD	DD
PD101	BASEMENT PLUMBING DEMOLITION PLAN		
PD111	FIRST FLOOR PLUMBING DEMOLITION PLAN		
PD121	SECOND FLOOR PLUMBING DEMOLITION PLAN		
PD131	ATTIC FLOOR PLUMBING DEMOLITION PLAN		
PD140	WASTE AND VENT RISER DIAGRAM		
PD150	DOMESTIC WATER RISER DIAGRAM		
PD200	PLUMBING DETAILS AND SCHEDULES		

SHEET INDEX - ELECTRICAL			
SHEET NO.	SHEET TITLE	SD	DD
E000	ELECTRICAL TITLE SHEET		
EED131	ATTIC ELECTRICAL DEMOLITION PLAN		
ELD101	BASEMENT LIGHTING DEMOLITION PLAN		
ELD111	FIRST FLOOR LIGHTING DEMOLITION PLAN		
EP0101	BASEMENT POWER DEMOLITION PLAN		
EP0111	FIRST FLOOR POWER DEMOLITION PLAN		
ESD101	BASEMENT SYSTEMS DEMOLITION PLAN		
ESD111	FIRST FLOOR SYSTEMS DEMOLITION PLAN		
EL101	BASEMENT LIGHTING FLOOR PLAN		
EL111	FIRST FLOOR LIGHTING FLOOR PLAN		
EP101	BASEMENT POWER FLOOR PLAN		
EP111	FIRST FLOOR POWER FLOOR PLAN		
ES101	BASEMENT SYSTEMS FLOOR PLAN		
ES111	FIRST FLOOR SYSTEMS FLOOR PLAN		
EE121	SECOND FLOOR ELECTRICAL PLAN		
EE131	ATTIC ELECTRICAL PLAN		
EE200	ELECTRICAL DETAILS		
EE301	ELECTRICAL DETAILS		
EE302	ELECTRICAL DETAILS		
EE303	ELECTRICAL RISER DIAGRAM		
EE304	ELECTRICAL SCHEDULES		
EE305	ELECTRICAL SCHEDULES		
EE306	ELECTRICAL SCHEDULES		

GENERAL CONDITIONS

- ALL DIMENSIONS ON DRAWINGS ARE APPROXIMATE. DRAWINGS ARE NOT TO BE SCALED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL FIELD CONDITIONS AND PHYSICAL DIMENSIONS THAT INFLUENCE THE CONSTRUCTION AREA.
- IT IS RECOMMENDED THAT CONTRACTORS VISIT THE PROPOSED CONSTRUCTION SITE PRIOR TO SUBMITTING THEIR BIDS AND THEY ARE ENCOURAGED TO DO SO.
- CONTRACTOR SHALL ADHERE STRICTLY TO STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
- CONTRACTOR SHALL PARK ONLY IN THE DESIGNATED PARKING AREAS AND ARE NOT TO PARK ON THE LAWN AREAS, THE ONLY EXCEPTIONS TO LOAD OR UNLOAD SUPPLIES OR EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE FOR THE SAFEGUARDING OF THEIR TOOLS AND EQUIPMENT. ALL TOOLS AND ARE NOT TO BE LEFT UNATTENDED AND ARE TO BE SECURE AT ALL TIMES WHEN THE CONTRACTOR IS NOT PRESENT, OR THE CONSTRUCTION SITE IS NOT SUPERVISED BY THE CONTRACTOR.
- ALL VA PROPERTY IS TO BE SAFEGUARDED FROM DAMAGE. ANY DAMAGE TO VA PROPERTY IS TO BE RESTORED TO ORIGINAL CONDITION PRIOR TO DAMAGE OR REPLACED COMPLETELY. THIS INCLUDES INSTALLATION, LABOR, AND PROCUREMENT EXPENSES.
- ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIED ITEMS DESIGNATED EITHER IN THE PLANS OR VERBALLY REQUESTED BY THE COR TO BE RETAINED BY THE VA. OFFSITE DISPOSAL OF THE DEMOLISHED ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR MUST CONTROL DEMOLITION AND CONSTRUCTION DUST FROM FACILITY BY ERECTING A DUST BARRIER AND VENTILATION WITH HEPA FILTERS. IF VENTING TO OUTSIDE, THE CONTRACTOR WILL INSURE NEGATIVE AIR PRESSURE IS MAINTAINED IN DEMOLISHED WORK AREA, WHEN TRANSPORTING DEBRIS, WET DOWN SUFFICIENTLY TO PREVENT DUST SPREADING.
- IF SCAFFOLDING IS USED, IT MUST BE USED IN ACCORDANCE WITH OSHA REGULATIONS AND IS TO BE ENCLOSED FOR THE FIRST EIGHT FEET ABOVE GROUND AT THE END OF EACH WORKING DAY. UNTIL DISMANTLED, LADDERS MUST BE REMOVED AND LOCKED UP AT THE END OF EACH WORKING DAY TO PREVENT UNAUTHORIZED PERSONS FROM HAVING ACCESS.
- CLEAN ALL DEBRIS FROM CONSTRUCTION SITE TO THE SATISFACTION OF THE COR.
- CONTRACTOR IS RESPONSIBLE FOR ERECTING A BARRIER AROUND WORK SITE TO PREVENT PATIENTS, STAFF AND VISITORS FROM ENTERING CONSTRUCTION SITE. THIS FENCE MAY BE A PLASTIC SNOW FENCE. COORDINATE CONSTRUCTION MATERIALS AND LOCATION OF FENCE WITH COR.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND REPLACING ANY DAMAGE LAWN. THE RESTORATION WILL BE PERFORMED BY A LANDSCAPE CONTRACTOR THAT REGULARLY DOES SOODING AS PART OF THEIR BUSINESS. ALL DAMAGED LAWN WILL BE OVERLIFT BY 6" OR MORE TO ACCOMMODATE FULL WIDTH ROLLS OF SOG. TOP SOIL TO BE FILLED AND GRADED TO A SMOOTH MATCHING GRADE OF UNDAMAGED LAWN. SOG TO BE THOROUGHLY SATURATED WITH WATER UPON PLACEMENT. THE CONTRACTOR IS RESPONSIBLE FOR WATERING NEW SOG UNTIL PROJECT ACCEPTANCE BY THE COR.
- ACCESS TO ALL BUILDINGS AND PARKING AREAS MUST BE MAINTAINED THROUGHOUT THE PROJECT.
- CONTRACTORS ARE TO COORDINATE ALL WORK WITH THE CONTRACTING OFFICERS REPRESENTATIVE. (COR)



VA COR:
CONTACT: MICHAEL ENGMARK
ADDRESS: 4801 VETERANS DRIVE
SAINT CLOUD, MN 55303
BUILDING # 3
PHONE: (320) 252-1670
EMAIL: MICHAEL.ENGMARK@VA.GOV

MECH/PLUMB/FIRE ENGINEER:
NAME: DUNHAM ASSOCIATES INC
ADDRESS: 50 SOUTH SIXTH STREET / SUITE 1100
MINNEAPOLIS, MN 55402-1540
CONTACT: JASON GOTTWALT
PHONE: 612-465-7273 FAX: 612-465-7073
EMAIL: JASON.GOTTWALT@DUNHAMENG.COM

STRUCTURAL ENGINEER:
NAME: AST
ADDRESS: 7301 OHMS LANE, SUITE 215
EDINA, MN 55439
CONTACT: KEVIN CLINTON
PHONE: 612-639-5145
EMAIL: KCLINTON@ASTENG.COM

ARCHITECT:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13605 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441
CONTACT: STEVE SCHLOTTHAUER
PHONE: (763) 412-4000 OR (763) 412-4054
EMAIL: SSSCHLOTTHAUER@AE-MN.COM

ELECTRICAL ENGINEER:
NAME: DUNHAM ASSOCIATES INC
ADDRESS: 50 SOUTH SIXTH STREET / SUITE 1100
MINNEAPOLIS, MN 55402-1540
CONTACT: CURT BARLAGE
PHONE: 612-465-7461 FAX: 612-465-7073
EMAIL: CURT.BARLAGE@DUNHAMENG.COM

CONSULTANT <p>DUNHAM 50 South Sixth Street / Suite 1100 Minneapolis, Minnesota 55402-1540 phone 612.465.7350 fax 612.465.7551 www.dunhameng.com mechanical + electrical consulting engineering</p>		ARCHITECT/ENGINEER OF RECORD <p>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 15451</p>		STAMP APPROVED PROJECT COR: _____ DATE: _____ APPROVED SERVICE LINE DIRECTOR: _____ DATE: _____ APPROVED GENS COORDINATOR: _____ DATE: _____ APPROVED PATENT SAFETY: _____ DATE: _____ APPROVED PROJECTS SECTION MANAGER: _____ DATE: _____ APPROVED CHIEF OF POLICE: _____ DATE: _____ APPROVED CHIEF OF STAFF: _____ DATE: _____ APPROVED DIRECTOR FMS: _____ DATE: _____ APPROVED SAFETY MANAGER: _____ DATE: _____ APPROVED HEALTH CARE SYSTEM DIRECTOR: _____ DATE: _____		DRAWING TITLE COVER SHEET APPROVED ASSOCIATE HEALTH CARE SYSTEM DIRECTOR: _____ DATE: _____ APPROVED CHIEF OF STAFF: _____ DATE: _____ APPROVED HEALTH CARE SYSTEM DIRECTOR: _____ DATE: _____		PROJECT FILE RENOVATE BUILDING 28 FIRST FLOOR EAST RTP DATE: _____ PLOT SCALE: PROJECT NO: 656-19-306 BUILDING NO: 28 DESIGNED BY: SS DRAWING NO: MP/CD G000 LOCATION: VA MEDICAL CENTER SAINT CLOUD, MN COVER		<p>U.S. Department of Veterans Affairs Veterans Health Administration St. Cloud VA Health Care System</p>	
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LIFE SAFETY SYMBOLS

-----	SMOKE PARTITION (NON FIRE RATED)	
-----	SMOKE BARRIER (1 HOUR FIRE BARRIER)	SMOKE COMPARTMENT ZONE DESIGNATION: 1E
-----	1 HOUR FIRE BARRIER	LEVEL DESIGNATION: 1E
-----	2 HOUR FIRE BARRIER	
-----	3 HOUR FIRE BARRIER	
-----		TRAVEL DISTANCE 100'-10"
OSOSOS	OCCUPANCY SEPARATION	EXIT DISCHARGE
FE	FIRE EXTINGUISHER	EXIT ACCESS
FEC	FIRE EXTINGUISHER CABINET	EXIT
		HORIZONTAL EXIT
	SMOKE ADJACENT SYMBOLS SHOW PARTITION RATING AND DAMPER REQUIREMENTS	
	HAZARDOUS USE ADJACENT SYMBOLS SHOW PARTITION RATING AND DAMPER REQUIREMENTS. OPENINGS REQUIRE GASKET, CLOSER & LATCH	
	EXIT PASSAGEWAY RATE AS STAIR ALL OPENINGS TO BE RATED AS STAIR SHAFT	
	CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE	

CODE SUMMARY

APPLICABLE CODES & STANDARDS

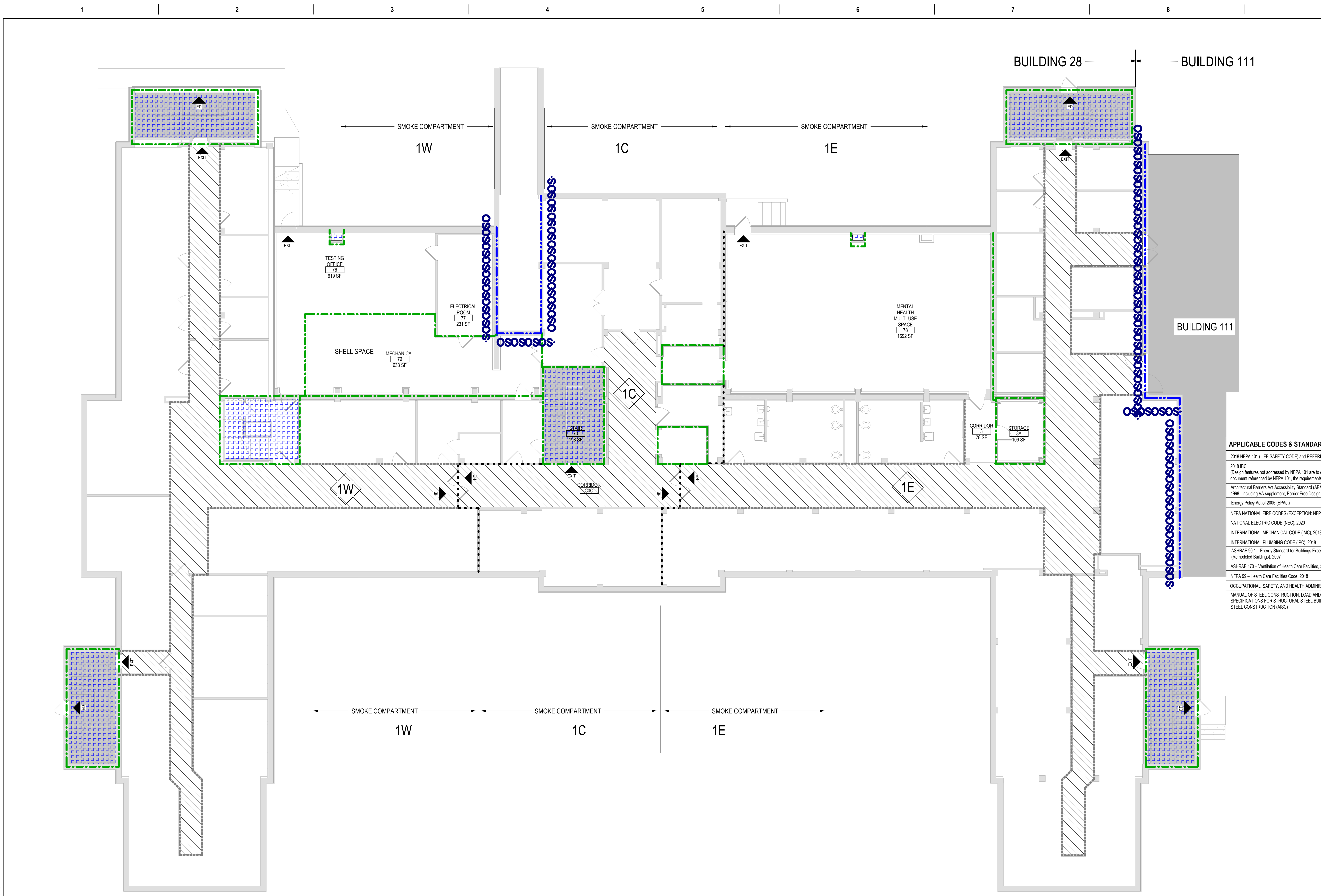
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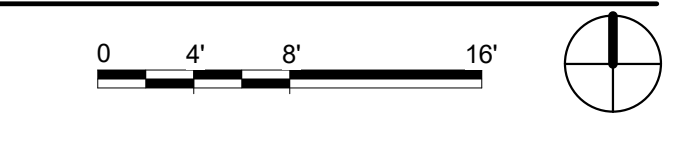
Architectural Barriers Act Accessibility Standards (ABAAS), 1991 - including VA supplement, Barrier Free Design Guide (PG-16-13), 2017	VHA Directive 7712 Fire Protection - (replaced VHA Directive 2005-07)
Energy Policy Act of 2005 (EPAct)	VHA Directive 7715 Safety and Health During Construction
NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 5000 & 900), 2018	VHA Directive 0058 VA Green Purchasing Program
NATIONAL ELECTRIC CODE (NEC), 2020	VHA Directive 7707 VHA Green Environmental Management System (GEMS) and Governing Environmental Policy Statement
INTERNATIONAL MECHANICAL CODE (IMC), 2018	
INTERNATIONAL PLUMBING CODE (IPC), 2018	
ASHRAE 90.1 - Energy Standard for Buildings Except Low-Rise Residential Buildings (Renovated Buildings), 2007	
ASHRAE 170 - Ventilation of Health Care Facilities, 2013	
NFPA 99 - Health Care Facilities Code, 2018	
OCCUPATIONAL SAFETY, AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 2018	
MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)	

GENERAL TYPE OF PROJECT	YES	NO
NEW BUILDING		
ADDITION		
REMODEL		
CONSTRUCTION TYPE (Per NFPA 220)	II (222)	
STORIES IN HEIGHT:	3 STORIES (UNCHANGED)	
SPRINKLER SYSTEM:	FULLY SPRINKLED	
HISTORIC BUILDING STATUS:	YES	
PROJECT DESCRIPTION		
REMODELING OF TWO SEPARATE AREAS OF THE BASEMENT LEVEL FOR OFFICE FUNCTIONS.		
REMODELING OF EAST SIDE OF THE FIRST FLOOR FOR USE AS A MENTAL HEALTH RESIDENTIAL REHAB AND TREATMENT FACILITY.		
AREA	TOTAL	AREA OF ARCH CONST / RENOV
BASEMENT LEVEL - EXISTING	21,851 SF	
BASEMENT LEVEL - NEW	UNCHANGED	3,300 SF
FIRST LEVEL - EXISTING	20,519 SF	
FIRST LEVEL - NEW	UNCHANGED	9,812 SF
SECOND LEVEL - EXISTING	22,035 SF	
SECOND LEVEL - NEW	UNCHANGED	140 SF
TOTAL - EXISTING	84,405 SF	
TOTAL - NEW	UNCHANGED	13,252 SF
FIRE-RESISTIVE RATINGS FOR CONSTRUCTION TYPE (2018 NFPA 220 Table 4.1.1)		
Construction Element		RATING (HRS)
EXTERIOR BEARING WALLS		
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR
SUPPORTING ONE FLOOR ONLY		2 HR
SUPPORTING A ROOF ONLY		1 HR
INTERIOR BEARING WALLS		
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR
SUPPORTING ONE FLOOR ONLY		2 HR
SUPPORTING A ROOF ONLY		1 HR
COLUMNS		
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR
SUPPORTING ONE FLOOR ONLY		2 HR
SUPPORTING A ROOF ONLY		1 HR
BEAMS, GIRDERS, TRUSSES, AND ARCHES		
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR
SUPPORTING ONE FLOOR ONLY		2 HR
SUPPORTING A ROOF ONLY		1 HR
FLOOR-CEILING ASSEMBLIES		
FLOOR-CEILING ASSEMBLIES		2 HR
ROOF-CEILING ASSEMBLIES		
ROOF-CEILING ASSEMBLIES		1 HR
INTERIOR NON-BEARING WALLS		
INTERIOR NON-BEARING WALLS		0
EXTERIOR NON-BEARING WALLS		
EXTERIOR NON-BEARING WALLS		0

Chapter 6: CLASSIFICATION OF OCCUPANCY AND HAZARD CONTENTS	Chapter 43: BUILDING REHABILITATION - BASEMENT RENOVATION
2018 NFPA 101 - 6.1	2018 NFPA 101 - 43.1
MULTIPLE OCCUPANCIES: 2018 NFPA 101 - 6.1.14	REHABILITATION CATEGORY: 2018 NFPA 101 - Table 43.2.2.1
MOST RESTRICTIVE OCCUPANCY: RESIDENTIAL BOARD AND CARE	EXISTING AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3
REQUIRED SEPARATION OF OCCUPANCIES (hours): 2018 NFPA 101 - 6.1.14.4.3	NEW AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3
SEE PLAN - PER NFPA 101 - TABLE 6.1.14.4.1	RENOVATION BUSINESS OCCUPANCY HAZARD CATEGORY: (3)
	BUSINESS OCCUPANCY HAZARD CATEGORY: (3)



1 BASEMENT FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



1	REVISION SET 1 (PREBID ADDENDUM)	07/6/2021
2		
3		
4		
5		
6		
7		
8		
9		
10		

CONSULTANT

DUNHAM

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE: 612.465.7550 FAX: 612.465.7551
WEB: dunhameng.com
mechanical + electrical consulting engineering

ARCHITECT/ENGINEER OF RECORD

AST

ARCHITECT/ENGINEER OF RECORD

ANDERSON

13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 15451

STAMP

Project Title
RENOVATE BUILDING 28
FIRST FLOOR EAST RTTP

Location
SAINT CLOUD, MN

Phase
CONSTRUCTION DOCUMENTS

Drawing Title
BASEMENT LEVEL LIFE SAFETY PLAN

Issue Date
MAY 22, 2020

Checked
SS

Drawn
MPC/D

Project Number
656-19-306

Building Number
28

Drawing Number
G1101

U.S. Department of Veterans Affairs

Veterans Health Administration

St. Cloud VA Health Care System

3

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
 one sixteenth inch = one foot



LIFE SAFETY SYMBOLS

	SMOKE PARTITION (NON FIRE RATED)	
	SMOKE BARRIER (1 HOUR FIRE BARRIER)	SMOKE COMPARTMENT ZONE DESIGNATION
	1 HOUR FIRE BARRIER	LEVEL DESIGNATION: 1E
	2 HOUR FIRE BARRIER	
	3 HOUR FIRE BARRIER	
		TRAVEL DISTANCE
	OSOSOS OCCUPANCY SEPARATION	
	FE FIRE EXTINGUISHER	EXIT DISCHARGE
	FEC FIRE EXTINGUISHER CABINET	EXIT ACCESS
		EXIT
		HORIZONTAL EXIT
	SHAFT	ADJACENT SYMBOLS SHOW PARTITION RATING AND DAMPER REQUIREMENTS
	HAZARDOUS USE	ADJACENT SYMBOLS SHOW PARTITION RATING AND DAMPER REQUIREMENTS. OPENINGS REQUIRE GASKET, CLOSER & LATCHES
	EXIT PASSAGEWAY	RATE AS STAIR. ALL OPENINGS TO BE RATED AS STAIR SHAFT
	CORRIDOR WALLS	TO LIMIT THE TRANSFER OF SMOKE

NOTE: NOT ALL SYMBOLS MY BE USED ON EACH PLAN

APPLICABLE CODES & STANDARDS

2018 NFPA 101 (LIFE SAFETY CODE) and REFERENCED PUBLICATIONS (2018 NFPA 101 - SECTION 2.2)	
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Energy Policy Act of 2005 (EPAct)	VHA Directive 7715 Safety and Health During Construction
NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 500 & 900), 2018	VHA Directive 0058 VA Green Purchasing Program
NATIONAL ELECTRIC CODE (NEC), 2020	VHA Directive 7707 VHA Green Environmental Management System (GEMS) and Governing Environmental Policy Statement
INTERNATIONAL MECHANICAL CODE (IMC), 2018	
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MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC),	

GENERAL TYPE OF PROJECT	NEW BUILDING	YES	NO
ADDITION			
REMODEL			
CONSTRUCTION TYPE: (Per NFPA 220)	II (222)		
STORIES IN HEIGHT:	3 STORIES (UNCHANGED)		
SPRINKLER SYSTEM:	FULLY SPRINKLED		
HISTORIC BUILDING STATUS:	YES		
PROJECT DESCRIPTION	REMODELING OF TWO SEPARATE AREAS OF THE BASEMENT LEVEL FOR OFFICE FUNCTIONS. REMODELING OF EAST SIDE OF THE FIRST FLOOR FOR USE AS A MENTAL HEALTH RESIDENTIAL REHAB AND TREATMENT FACILITY.		
AREA			
BASMENT LEVEL - EXISTING	TOTAL	21,851 SF	AREA OF ARCH CONST / RENOV
BASMENT LEVEL - NEW	UNCHANGED		3,300 SF
FIRST LEVEL - EXISTING	UNCHANGED		20,519 SF
FIRST LEVEL - NEW	UNCHANGED		5,812 SF
SECOND LEVEL - EXISTING	UNCHANGED		22,035 SF
SECOND LEVEL - NEW	UNCHANGED		140 SF
TOTAL - EXISTING		84,405 SF	
TOTAL - NEW		UNCHANGED	13,252 SF
FIRE-RESISTIVE RATINGS FOR CONSTRUCTION TYPE (2018 NFPA 220 Table 4.1.1)			
Construction Element			RATING (HRS)
EXTERIOR BEARING WALLS			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS			2 HR
SUPPORTING ONE FLOOR ONLY			2 HR
SUPPORTING A ROOF ONLY			1 HR
INTERIOR BEARING WALLS			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS			2 HR
SUPPORTING ONE FLOOR ONLY			2 HR
SUPPORTING A ROOF ONLY			1 HR
COLUMNS			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS			2 HR
SUPPORTING ONE FLOOR ONLY			2 HR
SUPPORTING A ROOF ONLY			1 HR
BEAMS, GIRDERS, TRUSSES, AND ARCHES			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS			2 HR
SUPPORTING ONE FLOOR ONLY			2 HR
SUPPORTING A ROOF ONLY			1 HR
FLOOR-CEILING ASSEMBLIES			2 HR
ROOF-CEILING ASSEMBLIES			1 HR
INTERIOR NON-BEARING WALLS			0
EXTERIOR NON-BEARING WALLS			0

Chapter 6: CLASSIFICATION OF OCCUPANCY AND HAZARD CONTENTS 2018 NFPA 101 - 6.1	MIXED OCCUPANCY BUILDING
MULTIPLE OCCUPANCIES: 2018 NFPA 101 - 6.1.1.4	RESIDENTIAL BOARD AND CARE
MOST RESTRICTIVE OCCUPANCY:	SEE PLAN - PER NFPA 101 - TABLE 6.1.1.4.4.1
REQUIRED SEPARATION OF OCCUPANCIES (hours): 2018 NFPA 101 - 6.1.1.4.4.3	

Chapter 43: BUILDING REHABILITATION - FIRST LEVEL (EAST)	RENOVATION
2018 NFPA 101	
REHABILITATION CATEGORY: 2018 NFPA 101 - Table 43.2.2.1	RENOVATION
EXISTING AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3	AMBULATORY HEALTH CARE HAZARDOUS CATEGORY: (2)
NEW AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3	RESIDENTIAL BOARD AND CARE HAZARDOUS CATEGORY: (2)

1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

<p>1 2 3 4 5 6 7 8 9 10</p>	<p>CONSULTANT DUNHAM DUNHAM 50 South Sixth Street / Suite 1100 Minneapolis, Minnesota 55402-1540 phone: 612.465.7550 fax: 612.465.7551 web: dunhameng.com</p>	<p>ARCHITECT/ENGINEER OF RECORD ANDERSON 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 15451</p>	<p>STAMP</p>	<p>Project Title RENOVATE BUILDING 28 FIRST FLOOR EAST RTTP</p> <p>Location SAINT CLOUD, MN</p> <p>Phase CONSTRUCTION DOCUMENTS</p> <p>Drawing Title FIRST LEVEL LIFE SAFETY PLAN</p> <p>Issue Date MAY 22, 2020</p> <p>Checked BB/SS</p> <p>Drawn MPC/D</p>	<p>Project Number 656-19-306</p> <p>Building Number 28</p> <p>Drawing Number GI111</p>	<p>U.S. Department of Veterans Affairs Veterans Health Administration St. Cloud VA Health Care System 4</p>
	<p>7/26/2021 11:02:30 AM</p> <p>C:\Users\Public\Documents\Revit\Projects\1451_BLDG 28_1st Floor_RTP_Schmitt@hauser.rvt</p> <p>REVISION SET 1 (PREBID ADDENDUM) 07/6/2021</p> <p>Revision# Description Date</p>	<p>VA FORM 08 - 6231</p>				

LIFE SAFETY SYMBOLS	
	SMOKE PARTITION (NON FIRE RATED)
	SMOKE BARRIER (1 HOUR FIRE BARRIER)
	1 HOUR FIRE BARRIER
	2 HOUR FIRE BARRIER
	3 HOUR FIRE BARRIER
	TRAVEL DISTANCE
	EXIT DISCHARGE
	EXIT ACCESS
	EXIT
	HORIZONTAL EXIT
	OCCUPANCY SEPARATION
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET
	SHAFT
	HAZARDOUS USE
	EXIT PASSAGEWAY
	CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

NOTE: THE LIFE SAFETY INFORMATION ON THIS SHEET INCLUDES INFORMATION ONLY FOR THE AREAS OF RENOVATION. THESE AREAS ARE INDICATED BY DASHED BORDERS. RENOVATION ON THIS LEVEL IS REQUIRED TO REPAIR OR REPLACE ITEMS DAMAGED, OR DEMOLISHED IN ORDER TO FACILITATE THE SCOPE OF WORK. SHOULD ANY WORK BE REQUIRED OUTSIDE THE BORDERS OF THESE AREAS OF RENOVATION, THE CONTRACTOR IS RESPONSIBLE TO VERIFY LIFE SAFETY REQUIREMENTS WITH THE COR AND CONSTRUCTION SHALL RETAIN THE INTEGRITY OF ANY EXISTING LIFE SAFETY ASSEMBLIES AND RATINGS.

CODE SUMMARY	
2018 NFPA 101 (LIFE SAFETY CODE) AND REFERENCED PUBLICATIONS (2018 NFPA 101 - SECTION 2.2)	
2018 IBC (Design features not addressed by NFPA 101 are to comply with the requirements of the 2018 IBC. For design features that are addressed by both the IBC as well as NFPA 101 or a document referenced by NFPA 101, the requirements of NFPA 101 or the document referenced by NFPA 101 shall be used exclusively.)	
Architectural Barriers Act Accessibility Standard (ABAAS), 1998 - including VA supplement, Barrier Free Design Guide (FG-18-13), 2017	VHA Directive 7712 Fire Protection - (replaced VHA Directive 2005-07)
Energy Policy Act of 2005 (EPAc)	VHA Directive 7715 Safety and Health During Construction
NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 500 & 900), 2018	VHA Directive 0058 VA Green Purchasing Program
NATIONAL ELECTRIC CODE (NEC), 2020	VHA Directive 7707 VHA Green Environmental Management System (GEMS) and Governing Environmental Policy Statement
INTERNATIONAL MECHANICAL CODE (IMC), 2018	
INTERNATIONAL PLUMBING CODE (IPC), 2018	
ASHRAE 90.1 - Energy Standard for Buildings Except Low-Rise Residential Buildings (Remodeled Buildings), 2007	
ASHRAE 170 - Ventilation of Health Care Facilities, 2013	
NFPA 99 - Health Care Facilities Code, 2018	
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 2018	
MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)	

APPLICABLE CODES & STANDARDS

2018 NFPA 101 (LIFE SAFETY CODE) AND REFERENCED PUBLICATIONS (2018 NFPA 101 - SECTION 2.2)

2018 IBC (Design features not addressed by NFPA 101 are to comply with the requirements of the 2018 IBC. For design features that are addressed by both the IBC as well as NFPA 101 or a document referenced by NFPA 101, the requirements of NFPA 101 or the document referenced by NFPA 101 shall be used exclusively.)

Architectural Barriers Act Accessibility Standard (ABAAS), 1998 - including VA supplement, Barrier Free Design Guide (FG-18-13), 2017

Energy Policy Act of 2005 (EPAc)

NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 500 & 900), 2018

NATIONAL ELECTRIC CODE (NEC), 2020

INTERNATIONAL MECHANICAL CODE (IMC), 2018

INTERNATIONAL PLUMBING CODE (IPC), 2018

ASHRAE 90.1 - Energy Standard for Buildings Except Low-Rise Residential Buildings (Remodeled Buildings), 2007

ASHRAE 170 - Ventilation of Health Care Facilities, 2013

NFPA 99 - Health Care Facilities Code, 2018

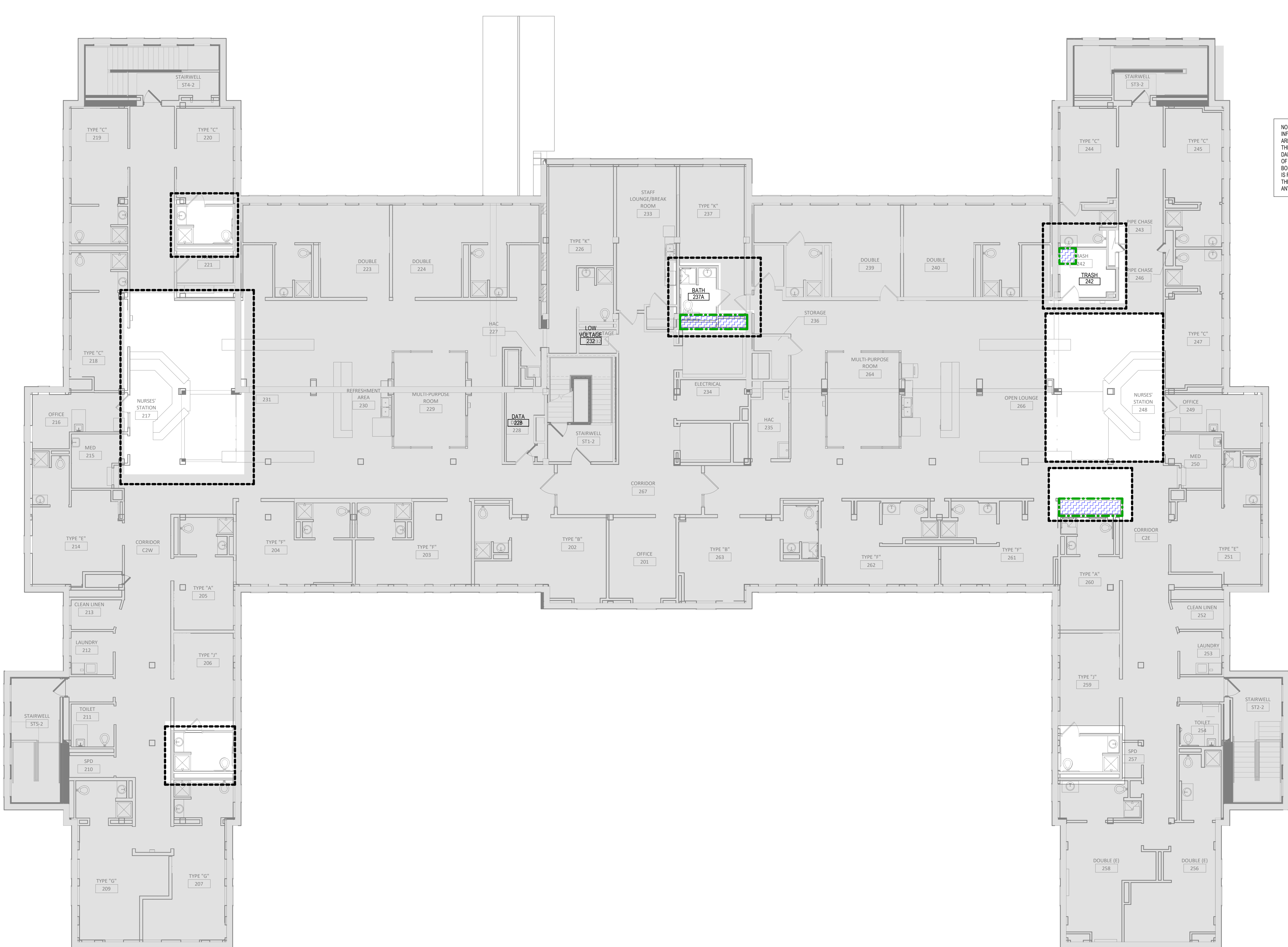
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 2018

MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

GENERAL TYPE OF PROJECT		YES	NO
NEW BUILDING		<input type="checkbox"/>	<input checked="" type="checkbox"/>
ADDITION		<input type="checkbox"/>	<input checked="" type="checkbox"/>
REMODEL		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CONSTRUCTION TYPE: (Per NFPA 220)	II (222)		
STORIES IN HEIGHT:	3 STORIES (UNCHANGED)		
SPRINKLER SYSTEM:	FULLY SPRINKLED		
HISTORIC BUILDING STATUS:	YES		
PROJECT DESCRIPTION			
REMODELING OF TWO SEPARATE AREAS OF THE BASEMENT LEVEL FOR OFFICE FUNCTIONS.			
REMODELING OF EAST SIDE OF THE FIRST FLOOR FOR USE AS A MENTAL HEALTH RESIDENTIAL REHAB AND TREATMENT FACILITY.			
AREA			
	TOTAL	AREA OF ARCH. CONST. / RENOV.	
BASEMENT LEVEL - EXISTING	21,851 SF		
BASEMENT LEVEL - NEW	UNCHANGED	3,300 SF	
FIRST LEVEL - EXISTING	20,519 SF		
FIRST LEVEL - NEW	UNCHANGED	9,812 SF	
SECOND LEVEL - EXISTING	22,035 SF		
SECOND LEVEL - NEW	UNCHANGED	140 SF	
TOTAL - EXISTING	64,405 SF		
TOTAL - NEW	UNCHANGED	13,252 SF	
FIRE-RESISTIVE RATINGS FOR CONSTRUCTION TYPE (2018 NFPA 220 Table 4.1.1)			
Construction Element		RATING (HRS)	
EXTERIOR BEARING WALLS			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR	
SUPPORTING ONE FLOOR ONLY		2 HR	
SUPPORTING A ROOF ONLY		1 HR	
INTERIOR BEARING WALLS			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR	
SUPPORTING ONE FLOOR ONLY		2 HR	
SUPPORTING A ROOF ONLY		1 HR	
COLUMNS			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR	
SUPPORTING ONE FLOOR ONLY		2 HR	
SUPPORTING A ROOF ONLY		1 HR	
BEAMS, GIRDERS, TRUSSES, AND ARCHES			
SUPPORTING MORE THAN ON FLOOR, COLUMNS, OR OTHER BEARING WALLS		2 HR	
SUPPORTING ONE FLOOR ONLY		2 HR	
SUPPORTING A ROOF ONLY		1 HR	
FLOOR-CEILING ASSEMBLIES			
ROOF-CEILING ASSEMBLIES		1 HR	
INTERIOR NON-BEARING WALLS		0	
EXTERIOR NON-BEARING WALLS		0	

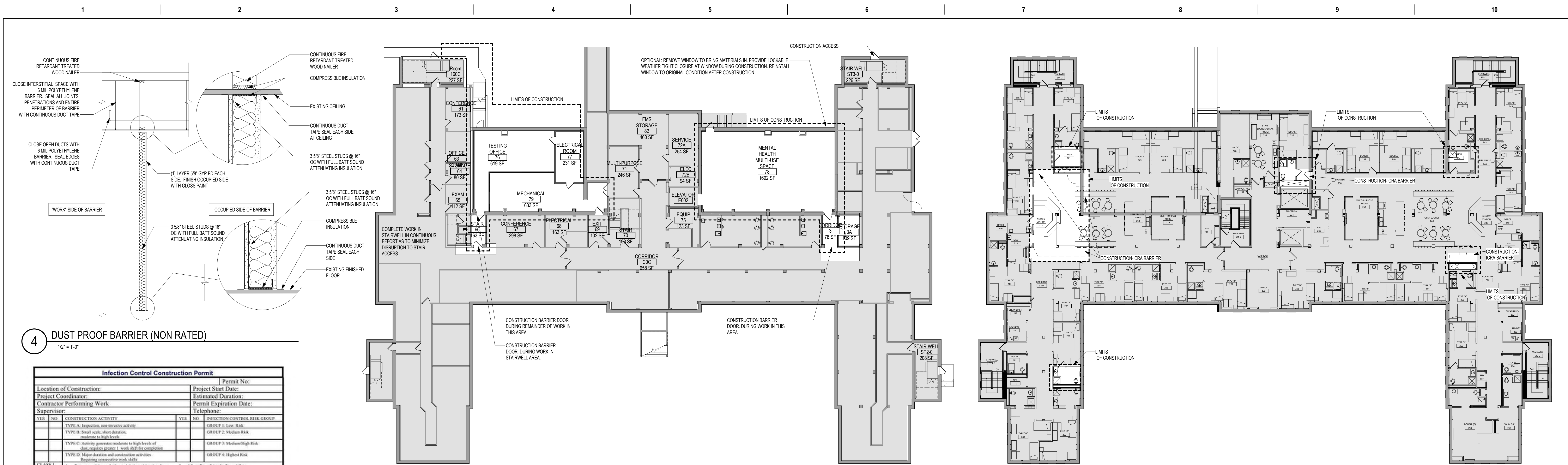
Chapter 6: CLASSIFICATION OF OCCUPANCY AND HAZARD CONTENTS		Chapter 43: BUILDING REHABILITATION	
2018 NFPA 101 - 6.1	MIXED OCCUPANCY BUILDING	2018 NFPA 101	RENOVATION
MULTIPLE OCCUPANCIES: 2018 NFPA 101 - 6.1.14		REHABILITATION CATEGORY: 2018 NFPA 101 - Table 43.2.2.1	
MOST RESTRICTIVE OCCUPANCY:	RESIDENTIAL BOARD AND CARE	EXISTING AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3	
REQUIRED SEPARATION OF OCCUPANCIES (hours): 2018 NFPA 101 - 6.1.14.4.3	SEE PLAN - PER NFPA 101 - TABLE 6.1.14.4.1	NEW AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3	

1 SECOND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



CONSULTANT DUNHAM 50 South Sixth Street / Suite 1100 Minneapolis, Minnesota 55402-1540 PHONE: 612.465.7550 FAX: 612.465.7551 WEB: dunhameng.com mechanical + electrical consulting engineering	ARCHITECT/ENGINEER OF RECORD ANDERSON 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 15451	STAMP 	Project Title RENOVATE BUILDING 28 FIRST FLOOR EAST RTTP	Project Number 656-19-306
			Location SAINT CLOUD, MN	Building Number 28
Drawing Title SECOND LEVEL LIFE SAFETY PLAN		Drawing Number G1121		
Issue Date MAY 22, 2020		Checked <input type="checkbox"/>	Drawn <input type="checkbox"/>	





4 DUST PROOF BARRIER (NON RATED)
1/2" = 1'-0"

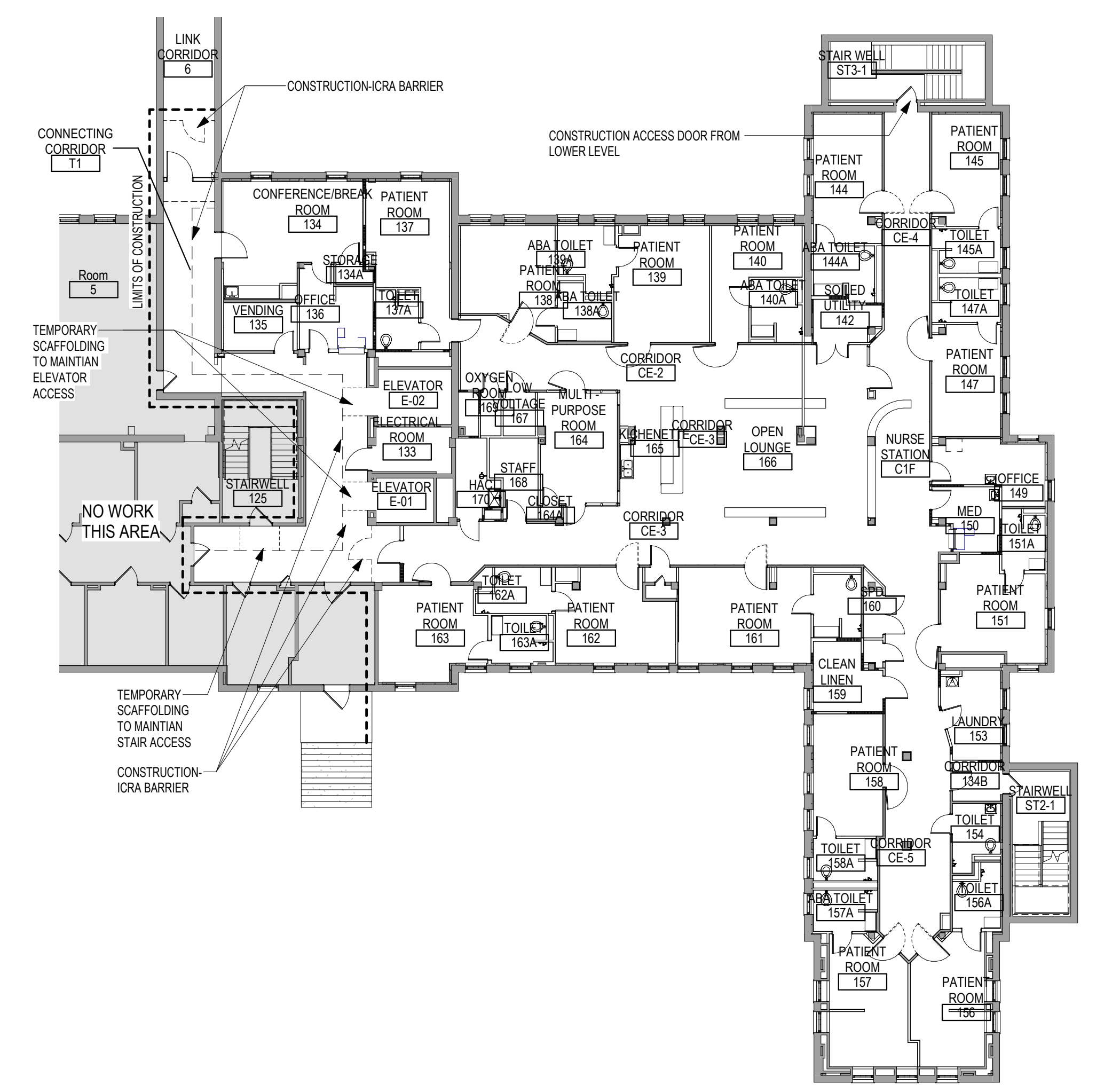
Infection Control Construction Permit			
Location of Construction:		Project Start Date:	
Project Coordinator:		Estimated Duration:	
Contractor Performing Work:		Permit Expiration Date:	
Supervisor:		Telephone:	
YES	NO	CONSTRUCTION ACTIVITY	RISK GROUP
		TYPE A: Inspection, non-invasive activity	GROUP 1: Low Risk
		TYPE B: Small scale, short duration, activities in high risk	GROUP 2: Medium Risk
		TYPE C: Activity generates moderate to high levels of dust, requires major work shift for completion	GROUP 3: Medium/High Risk
		TYPE D: Major alteration and construction activities requiring extensive work shifts	GROUP 4: Highest Risk

1 BASEMENT LEVEL ICRA, CONSTRUCTION BARRIER & PHASING PLAN
1/16" = 1'-0"

2 PARTIAL SECOND LEVEL ICRA, CONSTRUCTION BARRIER & PHASING PLAN
1/16" = 1'-0"

INFECTION CONTROL & CONSTRUCTION BARRIER GENERAL NOTES

- SEE SPEC SECTION 01 35 26 SAFETY REQUIREMENTS FOR ADDITIONAL INFORMATION
- THE INTENT OF INFECTION CONTROL ISOLATION IS TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA. CONSTRUCTION AREA PERIMETER NEEDS TO BE SEALED COMPLETELY WITH SHEET PLASTIC AS SPECIFIED AND DUCT TAPE DURING CONSTRUCTION. WHERE PERMITTED BY CLASS, ICRA CONSTRUCTION BARRIER TO BE PROVIDED AS SPECIFIED AND LISTED IN ICRA CLASS.
- PROVIDE NEGATIVE PRESSURE MONITORS DURING CONSTRUCTION OPERATIONS AS SPECIFIED. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOM AS DIRECTED BY VA.
- AS CONSTRUCTION PROGRESSES, FROM TYPE D TO TYPE C AND THEREON, PROVIDE A REQUEST VIA "INFECTION CONTROL CONSTRUCTION PERMIT" TO THE VA INFECTION CONTROL NURSE. UPON AUTHORIZATION, PROCEED TO NEXT TYPE OF CONSTRUCTION. PROVIDE AT LEAST TEN (10) WORKING DAYS NOTICE FOR EACH PERMIT.
- CONSTRUCT IC (INFECTION CONTROL CONSTRUCTION BARRIERS) FROM FLOOR TO DECK/FLOOR ABOVE. EXCEPTION: IF BARRIER IS ADJACENT TO SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE REMOVED AND TERMINATES TO FLOOR/DECK ABOVE, THEN CONSTRUCT DUST PROOF IC BARRIER, SEE DETAILS, TAPE, MUD, SAND JOINTS AND PAINT ON NON-CONSTRUCTION SIDE OF BARRIER.
- CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 AM AND AFTER 8:00 PM OR DIRECTED BY COR.
- DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS, MINIMUM (1) ONE IN AREA LESS THAN 1000 SF, (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 5000 SF, AND (3) THREE FOR AREAS BETWEEN 5000 SF AND 10000 SF.
- LIFE SAFETY EGRESS TO BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXCHANGE THE REGULATED AREA AIR VOLUME (4) FOUR ACTUAL TIMES PER HOUR. THE COMPETENT PERSON SHALL DETERMINE THE NUMBER OF UNITS NEEDED FOR EACH REGULATED AREA BY DIVIDING THE CUBIC FEET IN THE REGULATED AREA BY (15) FIFTEEN AND THEN DIVIDING THAT RESULT BY THE ACTUAL CUBIC FEET PER MINUTE (CFM) FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED TO EFFECT (4) FOUR AIR CHANGES PER HOUR. PROVIDE A STANDBY UNIT IN THE EVENT OF MACHINE FAILURE AND/OR EMERGENCY IN AN ADJACENT AREA.
- PRIOR TO ANY REMOVAL OF SMOKE BARRIER FIRE RATED PARTITIONS, CONSTRUCT NEW SMOKE BARRIER APPROPRIATE FIRE RATED PARTITIONS PER PLANS OR CONSTRUCT INFECTION CONTROL BARRIER TO ACT AS SMOKE BARRIER.



3 FIRST LEVEL ICRA, CONSTRUCTION BARRIER & PHASING PLAN
1/16" = 1'-0"

Step One: Using the following table, identify the Type of Construction Project Activity (Type A-D)

Inspection and Non-Invasive Activities	TYPE A	TYPE B	TYPE C	TYPE D
Includes, but is not limited to:	removal of ceiling tiles for visual inspection only, e.g., limited to 100 sq ft area	painting (that not sanding)	wallcovering, electrical wire work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceiling other than for visual inspection.	Small scale, short duration activities which create minimal dust includes, but is not limited to: installation of telephone and computer cabling, including removal of multiple ceiling tiles; access to ceiling space; cutting, sanding or demolition of walls, ceiling or floors where dust migration can be controlled within 50 feet; minor electrical chipping or hammer drill, less than 4 hours; utility change: 1-4 hours water, electrical, and gas or HVAC.
Work that generates moderate to high level dust or requires demolition or removal of any dust handling components or assemblies, high noise and vibration, utility opening & hours. Includes but is not limited to:	removal of ceiling tiles for painting or wall covering	sanding of walls for painting or wall covering	removal of walls, floorcoverings, entire ceiling systems, extensive cutting & sanding in areas greater than 50 square feet and which does not meet the above	new wall construction
Major demolition and construction projects includes, but is not limited to:	new wall construction	new wall construction	new wall construction	new wall construction

Step Two: Using the following table, identify the Patient Risk Groups that will be affected. If more than one risk group will be affected, select the higher risk group:

Low Risk	Medium Risk	High Risk	Highest Risk
Office areas (non-patient) Storage Rooms Mechanical Shops Cafeteria Atrium	Connecting Corridors Office Suites Occupational Therapy Mental Health Building Physical Therapy Radiology/MRI Discharge Clinic AS & SUC Kitchen Pre-op Post Anesthesia Care Unit Pharmacy	Endoscopy Urgent Care Respiratory Therapy Laboratory Community Living Centers Specialty Clinics ASC & SUC Operating rooms Anesthesia Areas	Any area caring for immunocompromised patients Vent ward Central Sterile Supply SFS/SUD Negative pressure isolation rooms if occupied Oncology Operating rooms Anesthesia Areas

Step Three: Match the Patient Risk Group (Low, Medium, High, Highest) with the planned Construction Project Type (A, B, C, D) on the following matrix, to find the Class of Precautions (I, II, III or IV) or level of infection control activities required. Class I-IV or Color-Coded Precautions are defined on the following page.

Patient Risk Group	Construction Project Type			
	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	II	II	II	II
MEDIUM Risk Group	III	III	III	III
HIGH Risk Group	IV	IV	IV	IV
HIGHEST Risk Group	IV	IV	IV	IV

Step Four: Identify the areas surrounding the project area, assessing potential impact

Unit Below	Unit Above	Laterals	Behind	Front
Risk Group	Risk Group	Risk Group	Risk Group	Risk Group

Step Five: Identify specific site of activity e.g., patient rooms, medication room, etc.

Unit Below	Unit Above	Laterals	Behind	Front
Risk Group	Risk Group	Risk Group	Risk Group	Risk Group

Step Six: Identify issues related to: ventilation, plumbing, electrical in terms of the occurrence of probable outcomes.

Step Seven: Identify containment measures, using prior assessment. What types of barriers? (e.g., solids wall barriers); Will HEPA filtration be required?

(Note: Renovation/construction area shall be isolated from the occupied areas during construction and shall be negative with respect to surrounding areas)

Step Eight: Consider potential risk of water damage. Is there a risk due to compromising structural integrity? (e.g., wall, ceiling, roof)

Step Nine: Work hours: Can or will the work be done during non-patient care hours?

Step Ten: Do plans allow for adequate number of isolation/negative airflow rooms?

Step Eleven: Do the plans allow for the required number & type of handwashing sinks?

Step Twelve: Does the infection prevention & control staff agree with the minimum number of sinks for this project? (Verify against P&ID Design and Construction Guidelines for types and area)

Step Thirteen: Does the infection prevention & control staff agree with the plans relative to clean and soiled utility rooms?

Step Fourteen: Plan to discuss the following containment issues with the project team. (E.g., traffic flow, housekeeping, debris removal (how and when))

Description of Required Infection Control Precautions by Class

Class	During Construction Project	Upon Completion of Project
Class I	1. Complete all critical barriers (e.g., sheetrock, plywood, plastic, per gap or seal area from non-work area or implement control cable method) with plastic covering and sealed connection to work area before construction begins. 2. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 3. Contain construction waste before transport in tightly covered containers. 4. Cover transport receptacles or carts. Tape covering unless sealed lid. 5. Vacuum work area with HEPA filtered vacuums. 6. Wet mop area with cleaner/disinfectant. 7. Upon completion, restore HVAC systems where work was performed.	1. Clean work area upon completion of task. 2. Wipe work surfaces with cleaner/disinfectant. 3. Contain construction waste before transport in tightly covered containers. 4. Wet mop and/or vacuum with HEPA filtered vacuums before leaving work area. 5. Upon completion, restore HVAC systems where work was performed.
Class II	1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Department. 2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 3. Contain construction waste before transport in tightly covered containers. 4. Cover transport receptacles or carts. Tape covering unless sealed lid. 5. Vacuum work area with HEPA filtered vacuums. 6. Wet mop area with cleaner/disinfectant. 7. Upon completion, restore HVAC systems where work was performed.	1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Department. 2. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction. 3. Contain construction waste before transport in tightly covered containers. 4. Cover transport receptacles or carts. Tape covering unless sealed lid. 5. Vacuum work area with HEPA filtered vacuums. 6. Wet mop area with cleaner/disinfectant. 7. Upon completion, restore HVAC systems where work was performed.
Class III	1. Install HVAC system in area where work is being done to prevent contamination of dust systems. 2. Complete all critical barriers (e.g., sheetrock, plywood, plastic, per gap or seal area from non-work area or implement control cable method) with plastic covering and sealed connection to work area before construction begins. 3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 4. Contain construction waste before transport in tightly covered containers. 5. Cover transport receptacles or carts. Tape covering unless sealed lid. 6. Vacuum work area with HEPA filtered vacuums. 7. Wet mop area with cleaner/disinfectant. 8. Upon completion, restore HVAC systems where work was performed.	1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Department. 2. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction. 3. Contain construction waste before transport in tightly covered containers. 4. Cover transport receptacles or carts. Tape covering unless sealed lid. 5. Vacuum work area with HEPA filtered vacuums. 6. Wet mop area with cleaner/disinfectant. 7. Upon completion, restore HVAC systems where work was performed.
Class IV	1. Install HVAC system in area where work is being done to prevent contamination of dust systems. 2. Complete all critical barriers (e.g., sheetrock, plywood, plastic, per gap or seal area from non-work area or implement control cable method) with plastic covering and sealed connection to work area before construction begins. 3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 4. Contain construction waste before transport in tightly covered containers. 5. Cover transport receptacles or carts. Tape covering unless sealed lid. 6. Vacuum work area with HEPA filtered vacuums. 7. Wet mop area with cleaner/disinfectant. 8. Upon completion, restore HVAC systems where work was performed.	1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Department. 2. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction. 3. Contain construction waste before transport in tightly covered containers. 4. Cover transport receptacles or carts. Tape covering unless sealed lid. 5. Vacuum work area with HEPA filtered vacuums. 6. Wet mop area with cleaner/disinfectant. 7. Upon completion, restore HVAC systems where work was performed.

Revision#	Description	Date
1	REVISION SET 1 (PREBID ADDENDUM)	07/6/2021

CONSULTANT
DUNHAM
DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
phone: 612.465.7550 fax: 612.465.7551
web: dunhameng.com
mechanical + electrical consulting engineering

ARCHITECT/ENGINEER OF RECORD
ANDERSON
13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 15451

STAMP

Project Title
**RENOVATE BUILDING 28
FIRST FLOOR EAST RTPT**

Location
SAINT CLOUD, MN

Phase
CONSTRUCTION DOCUMENTS

Drawing Title
**INFECTION CONTROL & PHASING
PLANS**

Issue Date
MAY 22, 2020

Checked
SS

Drawn
MP/CD

Project Number
656-19-306

Building Number
28

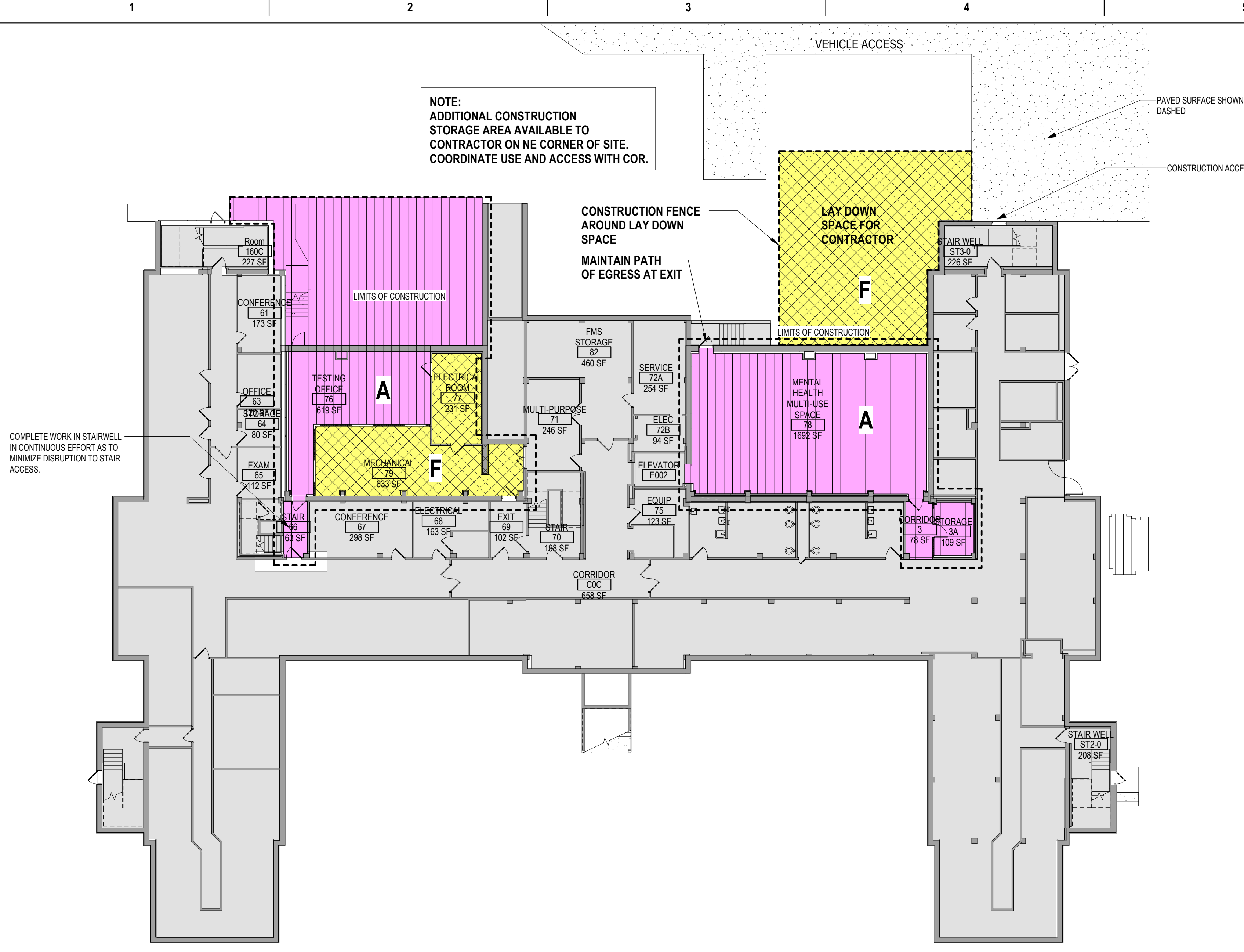
Drawing Number
GC011

VA

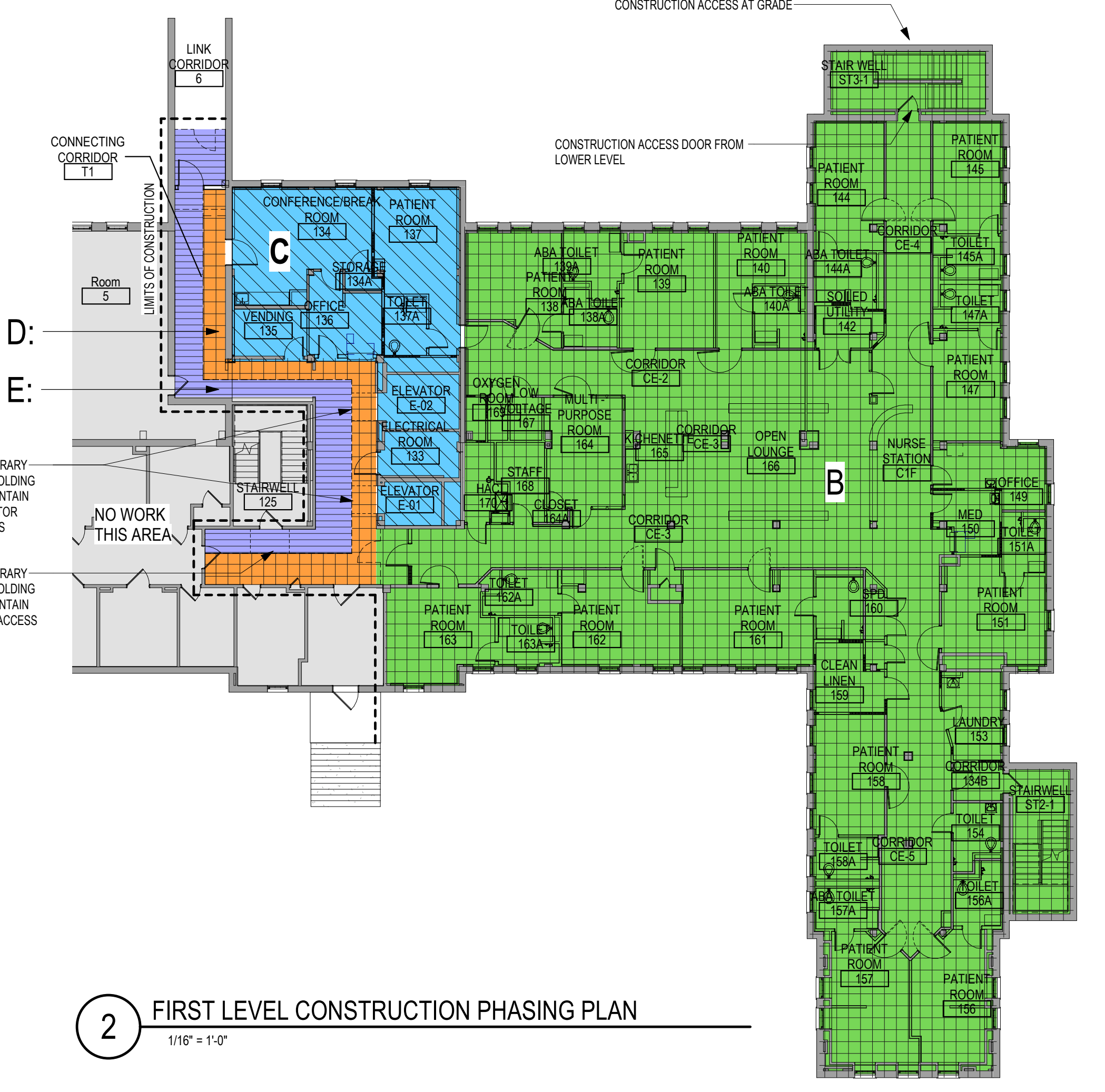
U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

CONSTRUCTION PHASING GENERAL NOTES

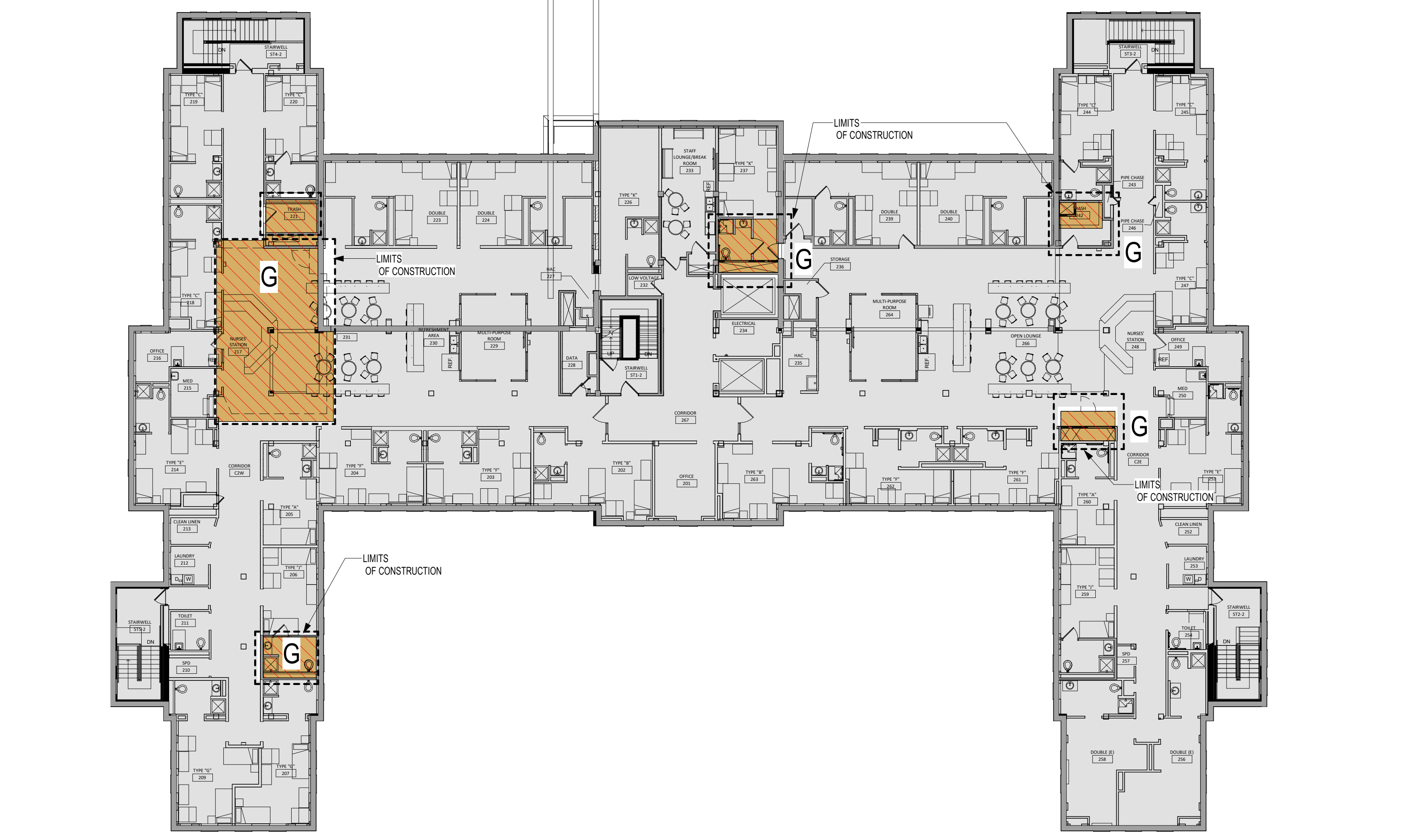
1. THE WORK UNDER THIS CONTRACT SHALL BE DIVIDED INTO PHASES. FOR ADDITIONAL INFO PHASING INFORMATION WITHIN SPECIFICATION SECTION 01 00 00.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING AND SEQUENCING WITH ALL TRADES AND THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE A WRITTEN NARRATIVE TO OUTLINE CONSTRUCTION PHASING AND SEQUENCE PLANS, VALIDATING AND ELABORATING ON THIS PHASING DESCRIPTION.
3. THE GENERAL CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER SO WORK MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT, OR OTHER CONTRACTS ON THE PROJECT SITE OR WORK BY OWNER.
4. DUST PARTITIONS OR ICRA-CONSTRUCTION BARRIERS ARE TO BE CONSTRUCTED PRIOR TO THE START OF DEMOLITION AND MUST REMAIN IN PLACE UNTIL THE COMPLETION OF THAT PHASE OR SUBSEQUENT PHASE WHERE REQUIRED. SEE CONSTRUCTION BARRIER REQUIREMENTS AND ICRA REQUIREMENTS ON SHEET GC01.
5. THE CONTRACTOR SHALL PERFORM ALL WORK ADJACENT TO VA OCCUPIED AREAS SO AS TO PERMIT THE CONTINUOUS AND UNINTERRUPTED USE OF ALL OCCUPIED AREAS, INCLUDING THE APPLICABLE MECHANICAL AND ELECTRICAL SYSTEMS SERVING THESE AREAS.
6. THE CONTRACTOR SHALL PLAN FOR A MINIMUM OF 4 WEEKS TIME BETWEEN PHASES TO ALLOW THE VA TO OCCUPY THE NEWLY ACCEPTED SPACE AND VACATE THE AREA OF THE NEXT PHASE. THE VA WILL ACCELERATE THIS TIME WHEN POSSIBLE AND WILL NOTIFY THE CONTRACTOR IF THIS OCCURS.
7. CONTRACTOR IS TO COORDINATE PHASING OF ARCHITECTURAL SCOPE OF WORK SHOWN ON THIS SHEET WITH PHASING REQUIREMENTS PROVIDED IN EACH DISCIPLINE'S DOCUMENTS.
8. THE PHASING SHOWN ON THIS SHEET IS INCLUSIVE OF ALL WORK ASSOCIATED WITH THE PROJECT ALTERNATES. PHASING REQUIREMENTS MAY VARY BASED ON THE ACTUAL SCOPE OF WORK AWARDED AND ALTERATIONS TO THE PROPOSED PHASING MAY OCCUR SUBJECT TO THE REVIEW AND APPROVAL BY THE COR.
9. AREA D AND AREA E: CONTRACTOR OPTION - CONSTRUCTION MAY OCCUR WITH WITH AREA D WORK BEFORE AREA E, OR IN REVERSE ORDER. BARRIERS CONSTRUCTED FOR THIS CONSTRUCTION ARE TO MAINTAIN VA ACCESS TO THE STAIR THROUGH THE CORRIDOR AND ELEVATOR. PROVIDE SCAFFOLDING OVER ENTRY TO STAIRS AND ELEVATOR TO SHIELD USERS FROM CONSTRUCTION OCCURRING IN CEILING SPACE ABOVE.



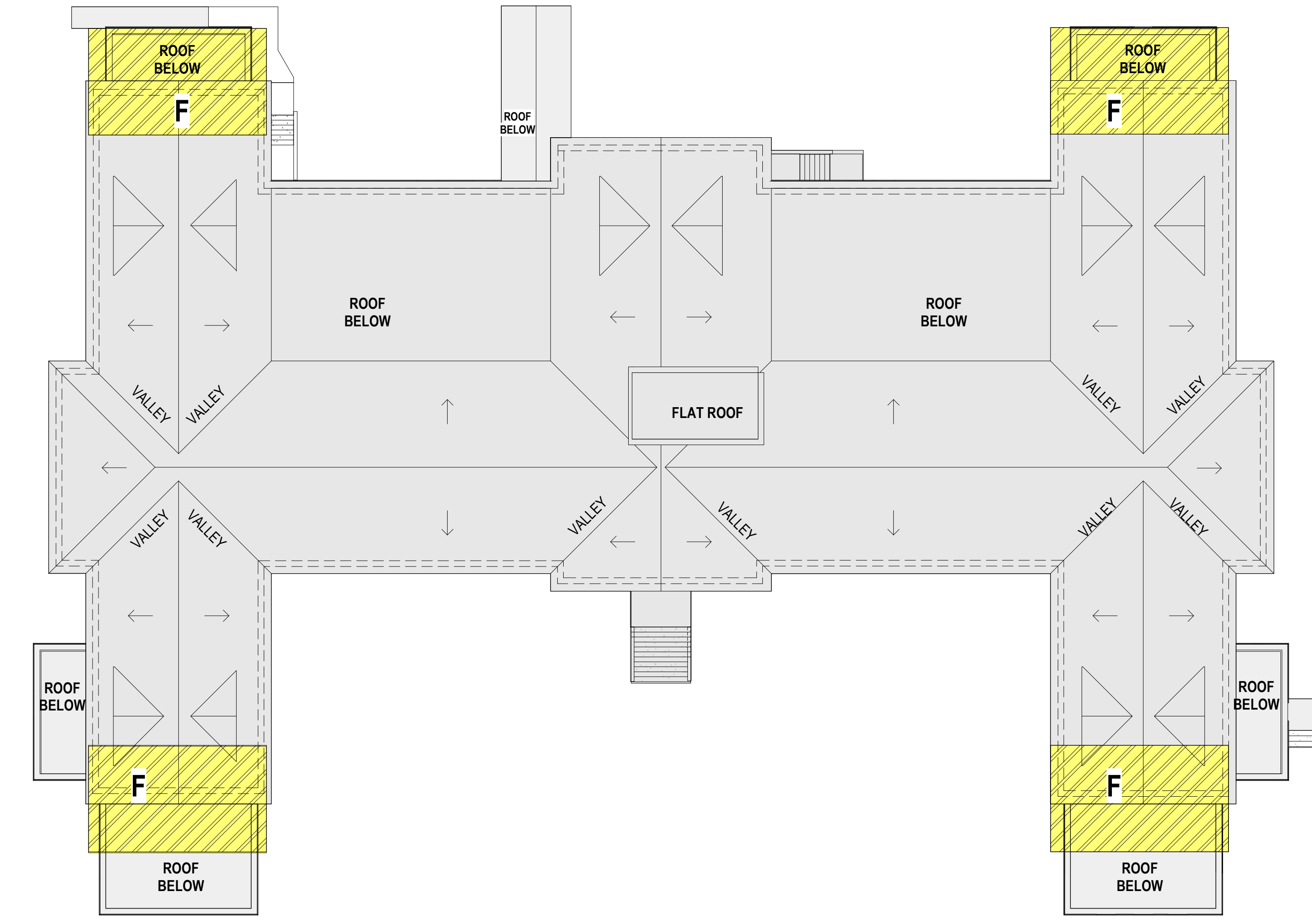
1 LOWER LEVEL CONSTRUCTION PHASING PLAN
1/16" = 1'-0"



2 FIRST LEVEL CONSTRUCTION PHASING PLAN
1/16" = 1'-0"



3 PARTIAL SECOND LEVEL CONSTRUCTION PHASING PLAN
1/16" = 1'-0"



4 ROOF AND ATTIC PHASING PLAN
1/16" = 1'-0"

CONSTRUCTION PHASING

AREA	CONSTRUCTION START	CONSTRUCTION FINISH
A	PHASE 1	PHASE 1
B	PHASE 1	PHASE 3
C	PHASE 2	PHASE 3
D	PHASE 3	PHASE 3
E	PHASE 2	PHASE 2
F	PHASE 1*	PHASE 3*
G	PHASE 1**	PHASE 3**

(*) CONSTRUCTION IN THESE AREAS IS TO OCCUR IN CONJUNCTION WITH M.E.P PHASING REQUIREMENTS WITHIN THE MECHANICAL AND ELECTRICAL SHEETS.

(**) ACCESS TO THESE AREAS AND WORK WITHIN EACH OF THESE AREAS IS TO OCCUR IN AN EXPEDIENT AND UNINTERRUPTED MANNER SO AS TO MINIMIZE DISRUPTION TO THE ONGOING FUNCTIONS IN AND AROUND THE AREA. THE CONTRACTOR IS TO COORDINATE WORK IN THESE AREAS IN CONJUNCTION WITH PHASING IDENTIFIED WITHIN MECHANICAL AND ELECTRICAL SHEETS. CONSTRUCTION AREAS SHOULD NOT BE ASSUMED TO OCCUR SIMULTANEOUSLY AND SCHEDULING OF THE WORK IS TO BE REVIEWED AND APPROVED BY THE COR.

Revision#	Description	Date:

CONSULTANT

DUNHAM

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE: 612.465.7550 FAX: 612.465.7551
WEB: dunhameng.com
mechanical + electrical consulting engineering

ARCHITECT/ENGINEER OF RECORD

AST

13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 15451

ARCHITECT/ENGINEER OF RECORD

ANDERSON

13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 15451

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Project Title
RENOVATE BUILDING 28
FIRST FLOOR EAST RRTP

Location
SAINT CLOUD, MN

Phase
CONSTRUCTION DOCUMENTS

Drawing Title
CONSTRUCTION PHASING PLANS

Issue Date
MAY 22, 2020

Checked
SS

Drawn
CD

Project Number
656-19-306

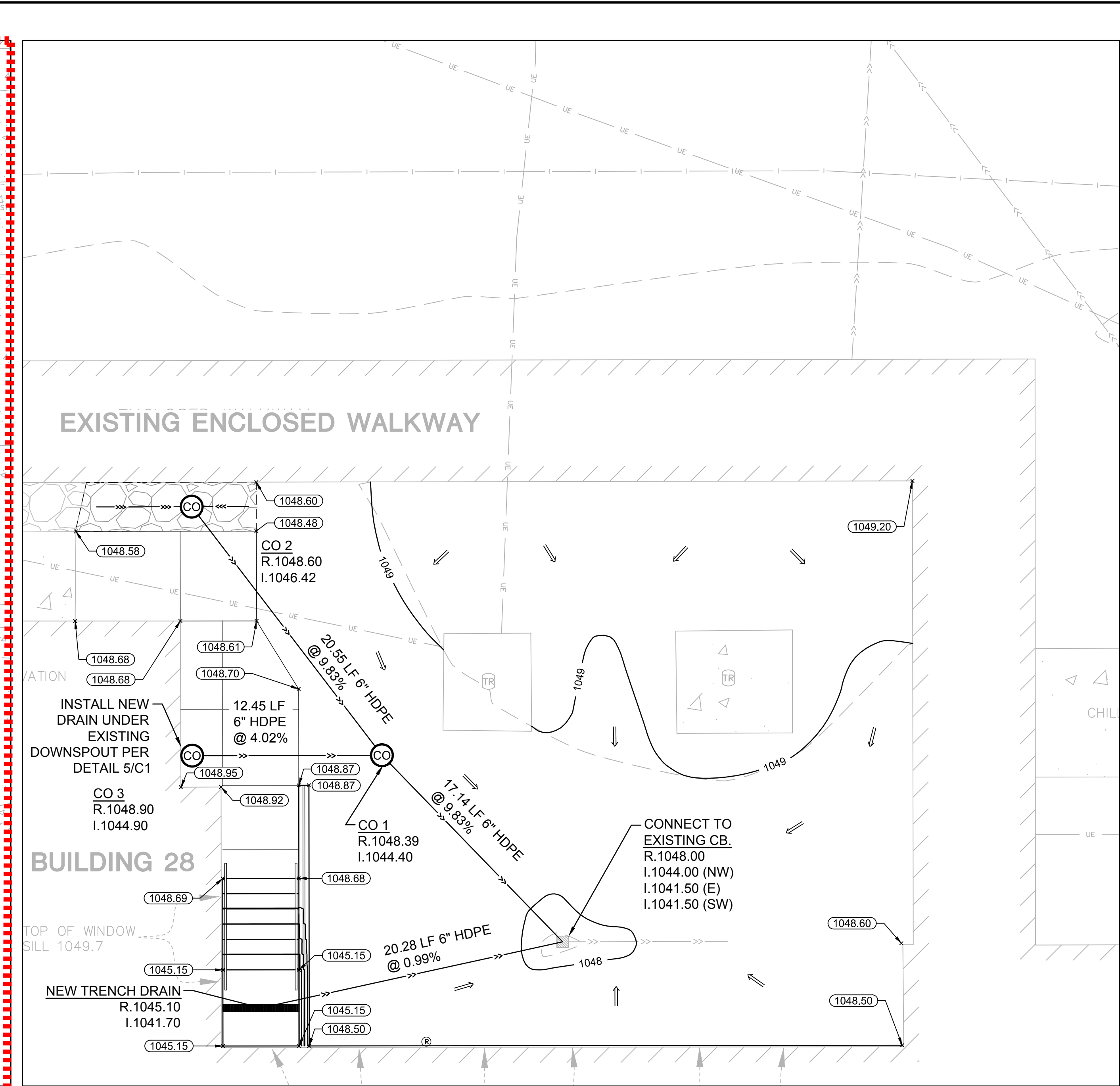
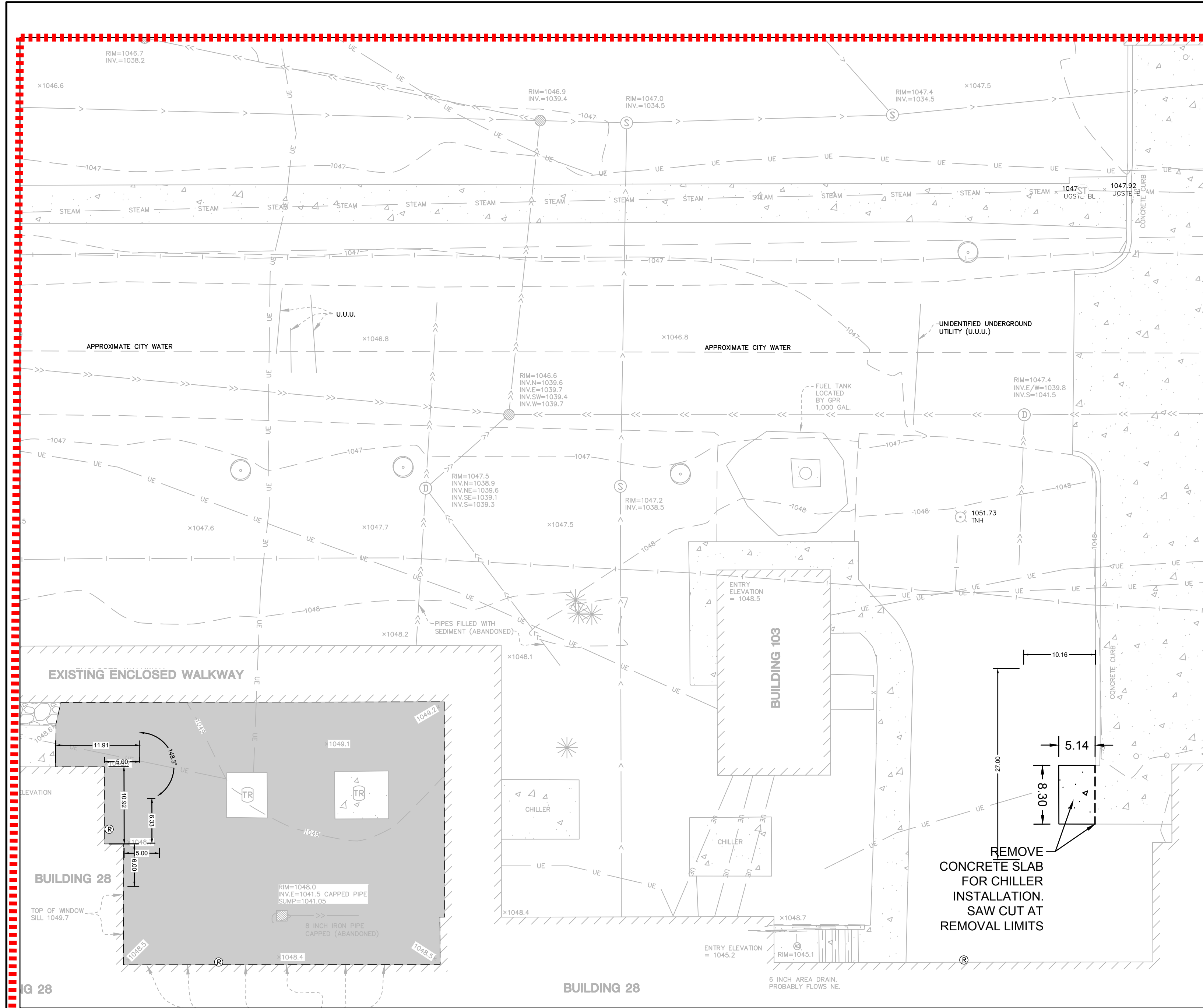
Building Number
28

Drawing Number
GC012

VA

U.S. Department of Veterans Affairs

Veterans Health Administration
St. Cloud VA Health Care System

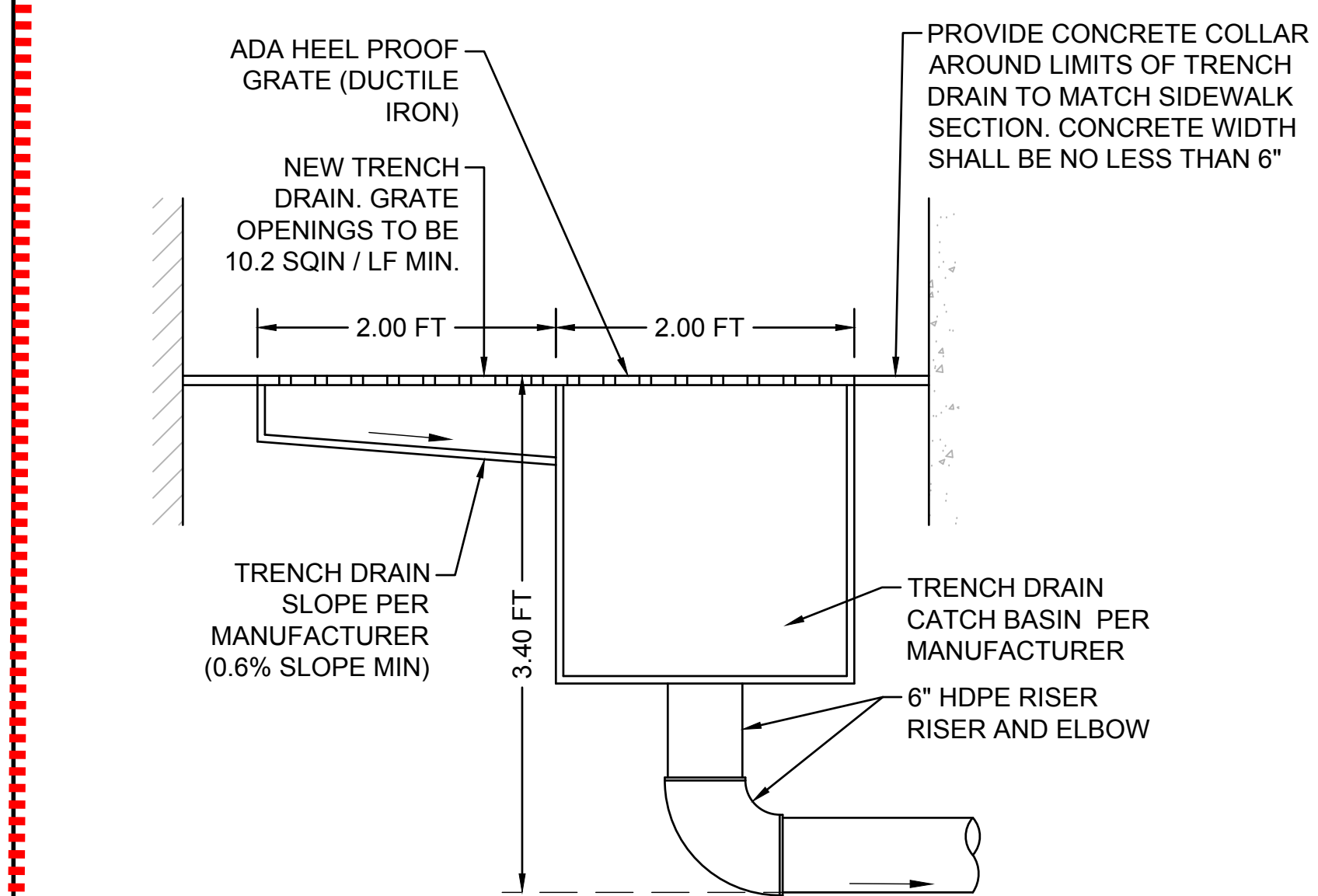


- LEGEND:**
- NEW UNDERDRAIN
 - NEW STORM SEWER
 - EXISTING CONTOUR
 - MINOR CONTOUR
 - MAJOR CONTOUR
 - SAWCUT LINE
 - FLOW ARROW
 - APPROXIMATE EXCAVATION / GRADING LIMITS
 - APPROXIMATE CONCRETE REMOVAL LIMITS
 - NEW ROCK MULCH TRENCH
 - NEW STORM SEWER CLEANOUT / ROOF DRAIN

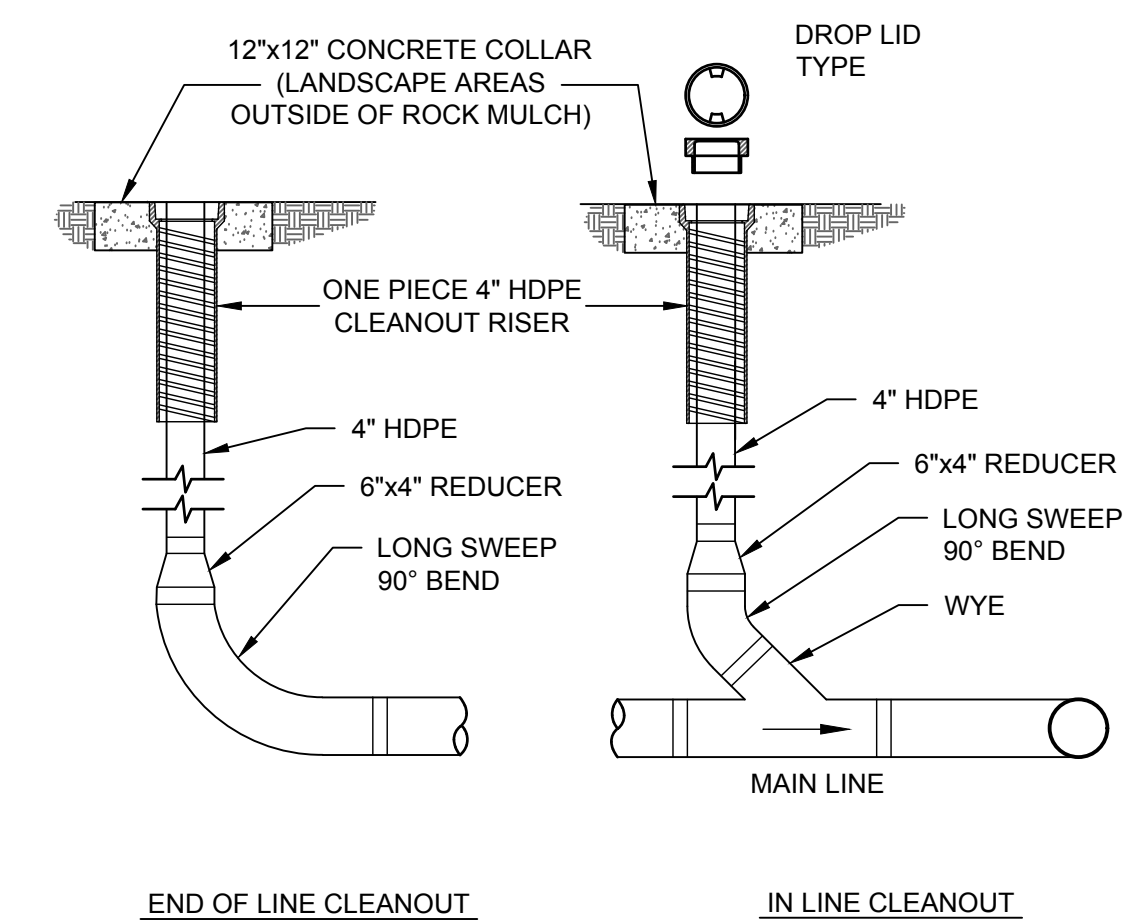
- GENERAL NOTES:**
1. UTILITY INFORMATION IS BASED ON A SURVEY PERFORMED BY ANDERSON ENGINEERING PERFORMED IN FEBRUARY 2020 AND INFORMATION SUPPLIED BY THE VA. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES AS NECESSARY TO COMPLETE WORK. CONTRACTOR TO HIRE A PRIVATE UTILITY LOCATOR. UTILITIES ON PLANS MAY VARY FROM EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO UTILITIES WHETHER SHOWN, NOT SHOWN, OR SHOWN INCORRECTLY. NOTIFY COR IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
 2. ALL WORK TO BE CONSTRUCTED IN A LEGAL MANNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 3. CONTRACTOR SHALL OBTAIN ALL PERMITS PRIOR TO CONSTRUCTION ACTIVITIES.
 4. VERIFY EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO STARTING WORK.
 5. ALL EXISTING TREES AND SHRUBS ADJACENT TO THE PROJECT LIMITS ARE TO BE PROTECTED.
 6. CONTRACTOR SHALL REMOVE AND DISPOSE OFF-SITE ALL DEMOLITION ITEMS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
 7. PATCH IN-KIND ALL DISTURBED PAVEMENTS & CURBS.
 8. STREET SWEEP TO PREVENT DIRT AND DEBRIS ENTERING INTO TO THE PUBLIC RIGHT OF WAY, INCLUDING ADJACENT WALKS AND ROADWAYS, MINIMUM DAILY.
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 14. COORDINATE ALL UTILITY RELOCATIONS / DISRUPTIONS WITH COR AND VAMC STAFF.
 15. ALL LANDSCAPED AREAS DISTURBED TO BE RESTORED WITH SALT TOLERANT SOD PER MNDOT STANDARD SPECIFICATION SECTION 3878.2.C.

1 CORTYARD DEMO PLAN
SCALE: 1"=10' (30"x42")

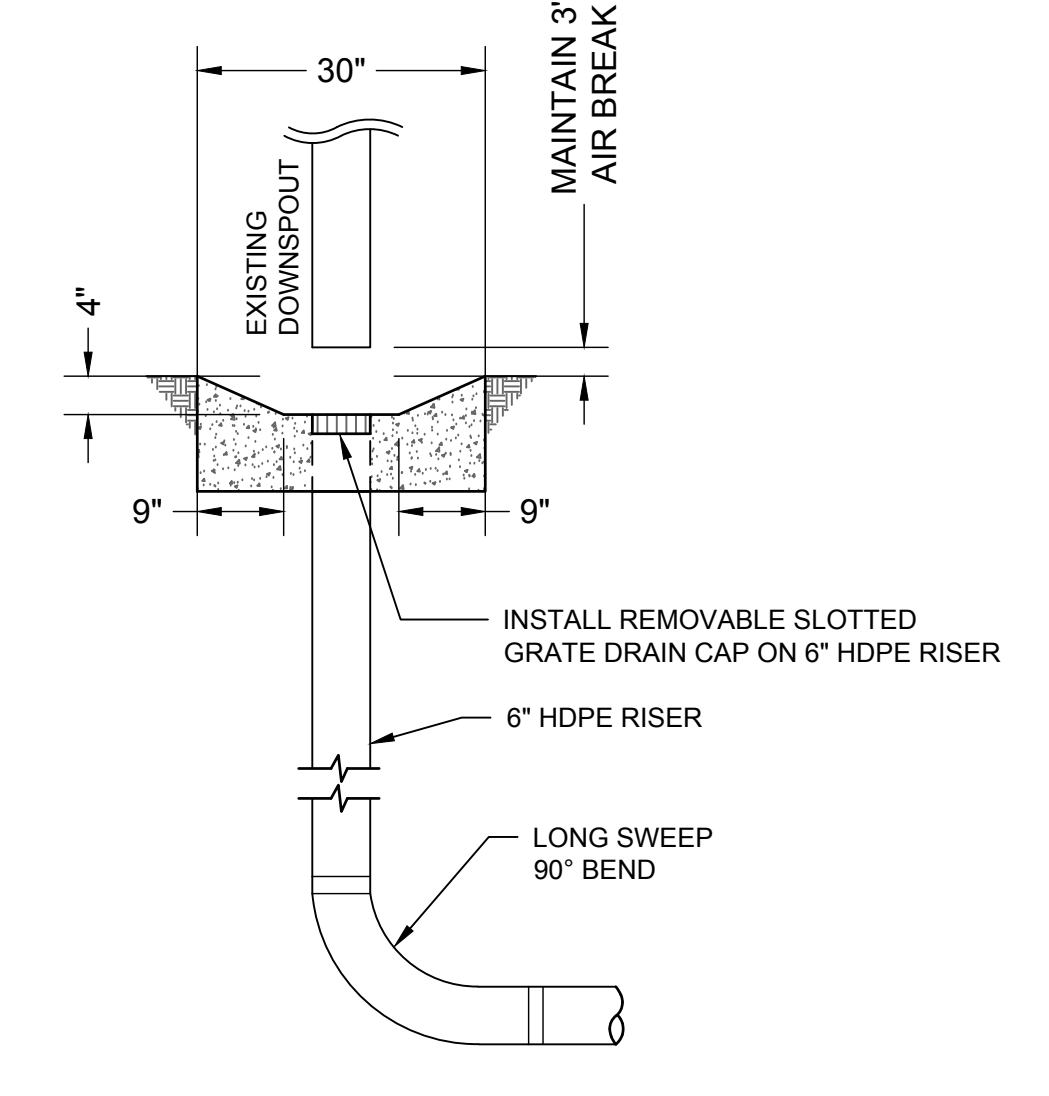
2 CORTYARD SITE GRADING AND UTILITY PLAN
SCALE: 1"=6' (30"x42")



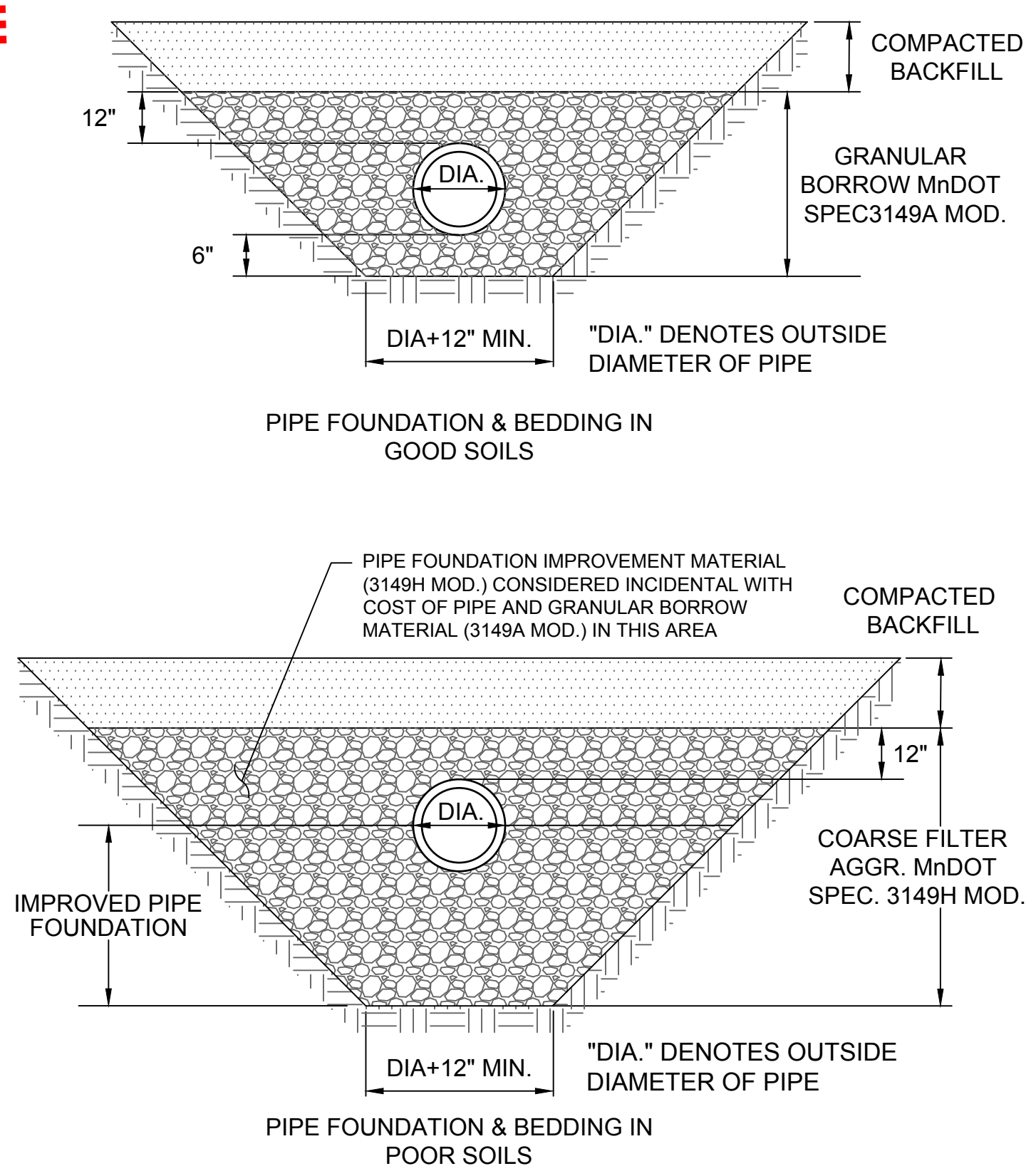
3 TRENCH DRAIN AT LANDING
SCALE: NTS



4 STORM DRAIN CLEANOUT
SCALE: NTS



5 STORM DRAIN AT EXISTING DOWNSPOUT
SCALE: NTS



6 PIPE BEDDING
SCALE: NTS

DEDUCT ALTERNATE #1

Revision#	Description	Date:
1	REVISION SET 1 (PREBID ADDENDUM)	07/6/2021

CONSULTANT

DUNHAM

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE: 612.465.7550 FAX: 612.465.7551
WEB: dunhameng.com
mechanical • electrical consulting engineering

ARCHITECT/ENGINEER OF RECORD

ANDERSON

13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 15451

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: IAN J. WEBER, PE

SIGNATURE: *[Signature]*

DATE: 05/26/2020 LICENSE # 55502

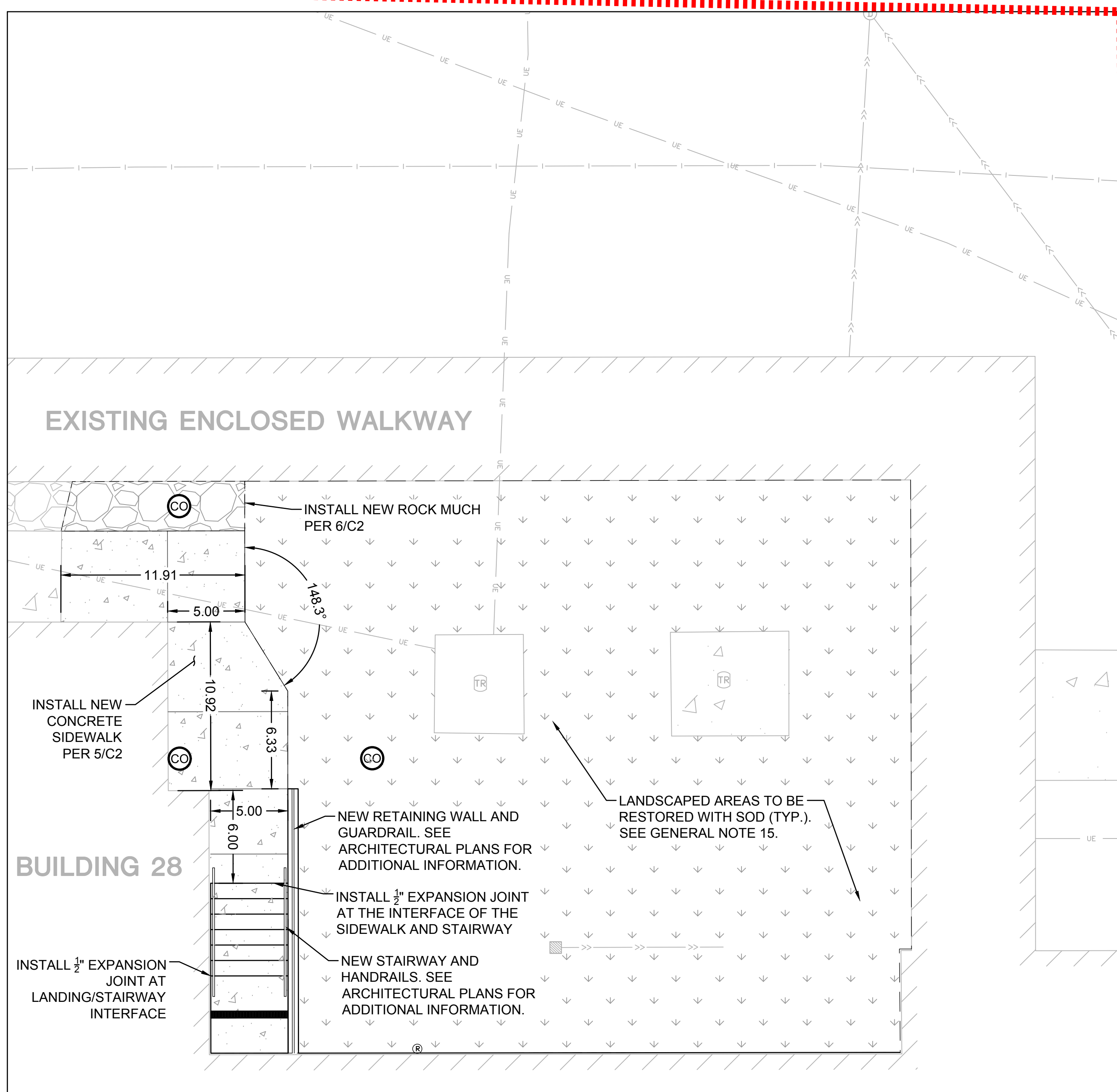
Project Title DESIGN RENOVATE BUILDING 28, FIRST FLOOR EAST SIDE FOR RRTP		Project Number 656-19-306
Location SAINT CLOUD, MN		Building Number 28
Phase CONSTRUCTION DOCUMENTS		Drawing Number CJ101
Drawing Title DEMOLITION, GRADING, AND UTILITY PLANS	Issue Date MAY 22, 2020	Checked LW
	Drawn LW	

VA U.S. Department of Veterans Affairs

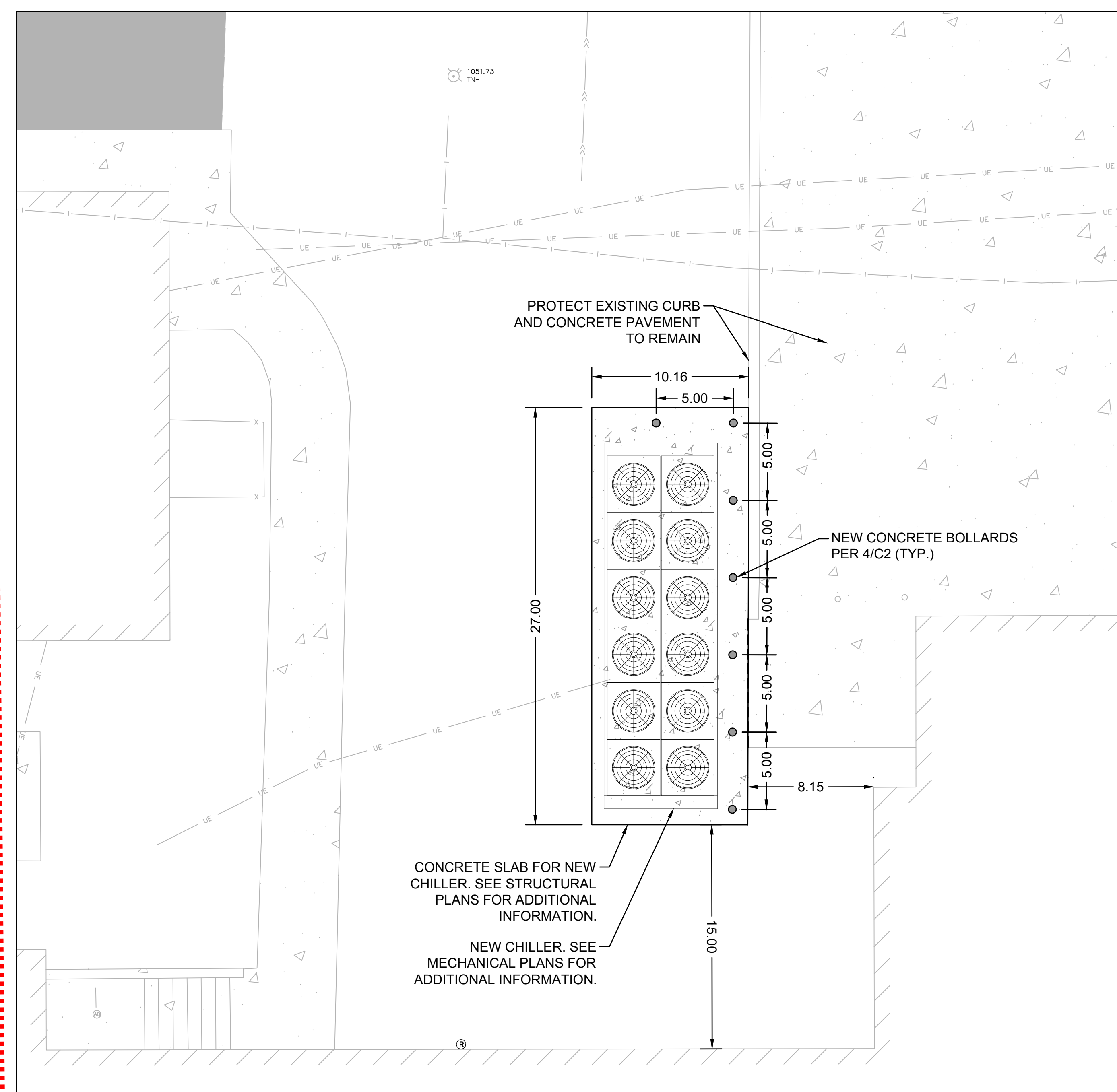
Veterans Health Administration
St. Cloud VA Health Care System

- LEGEND:**
- NEW CONCRETE BOLLARDS
 - SAWCUT LINE
 - NEW SOD LIMITS
 - NEW CONCRETE SIDEWALK / SLAB
 - NEW ROCK MULCH TRENCH
 - NEW STORM SEWER CLEANOUT / ROOF DRAIN

- GENERAL NOTES:**
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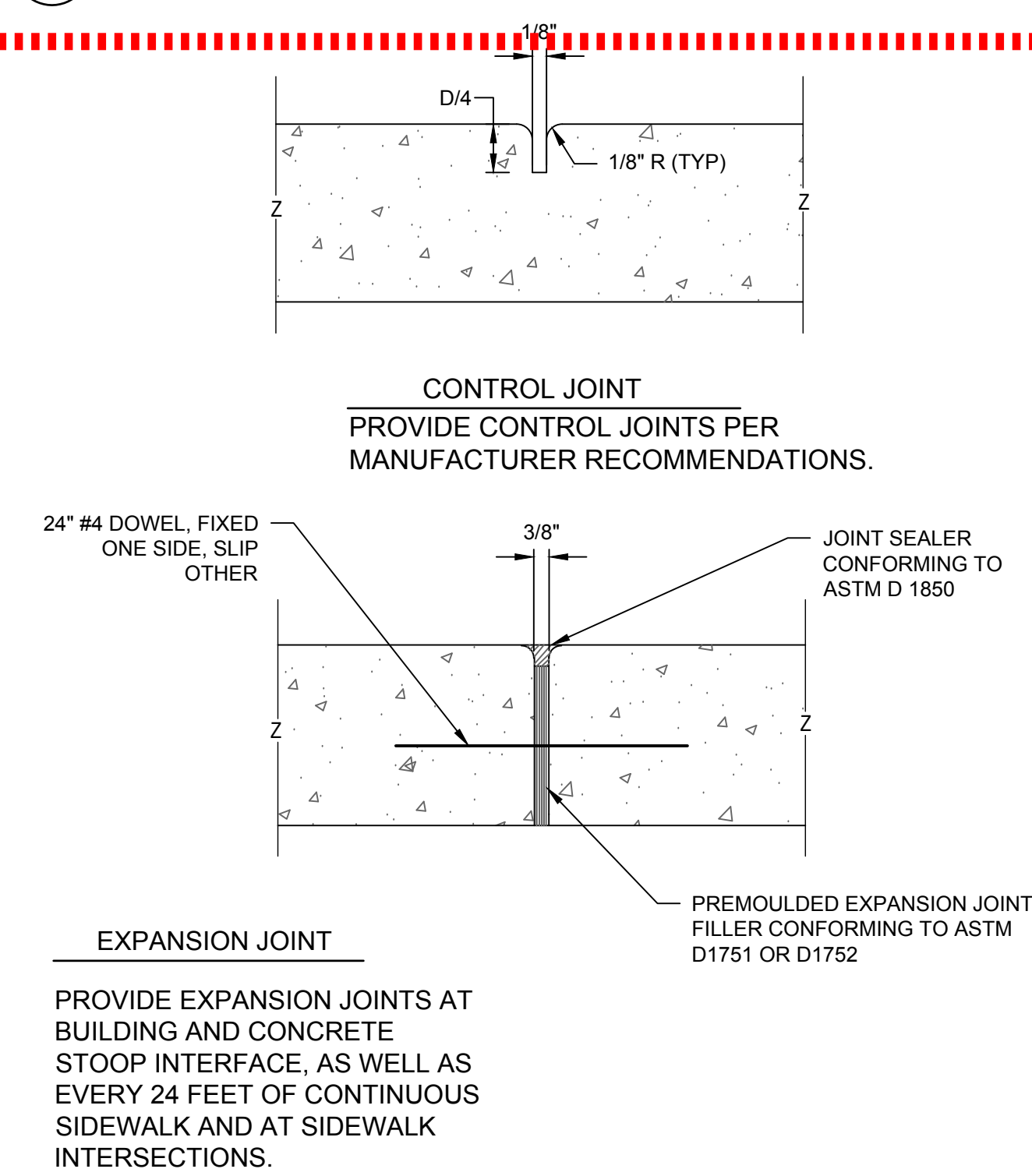


1 CORTYARD SITE PLAN
SCALE: 1"=5'

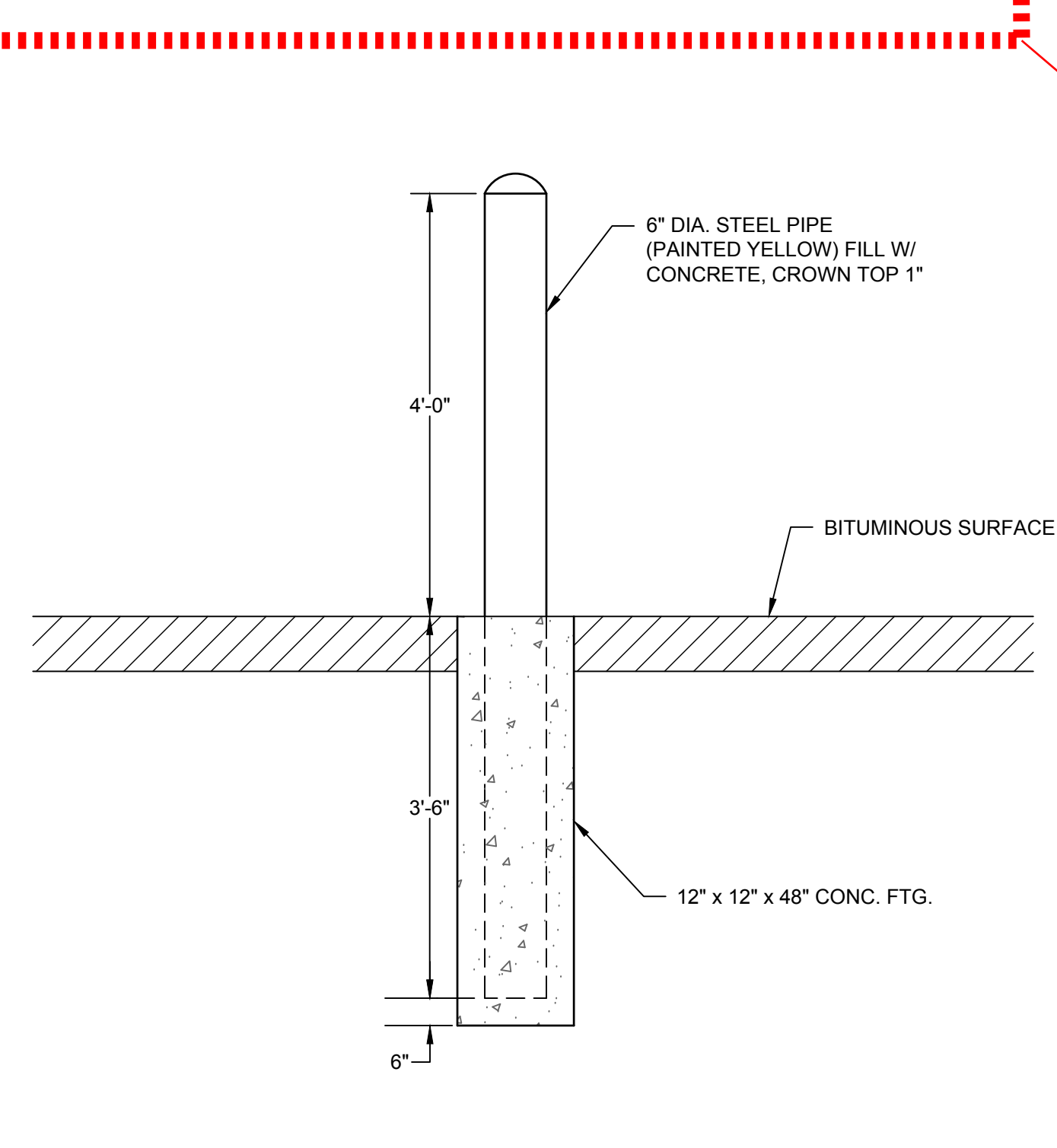


2 CHILLER PAD SITE PLAN
SCALE: 1"=5'

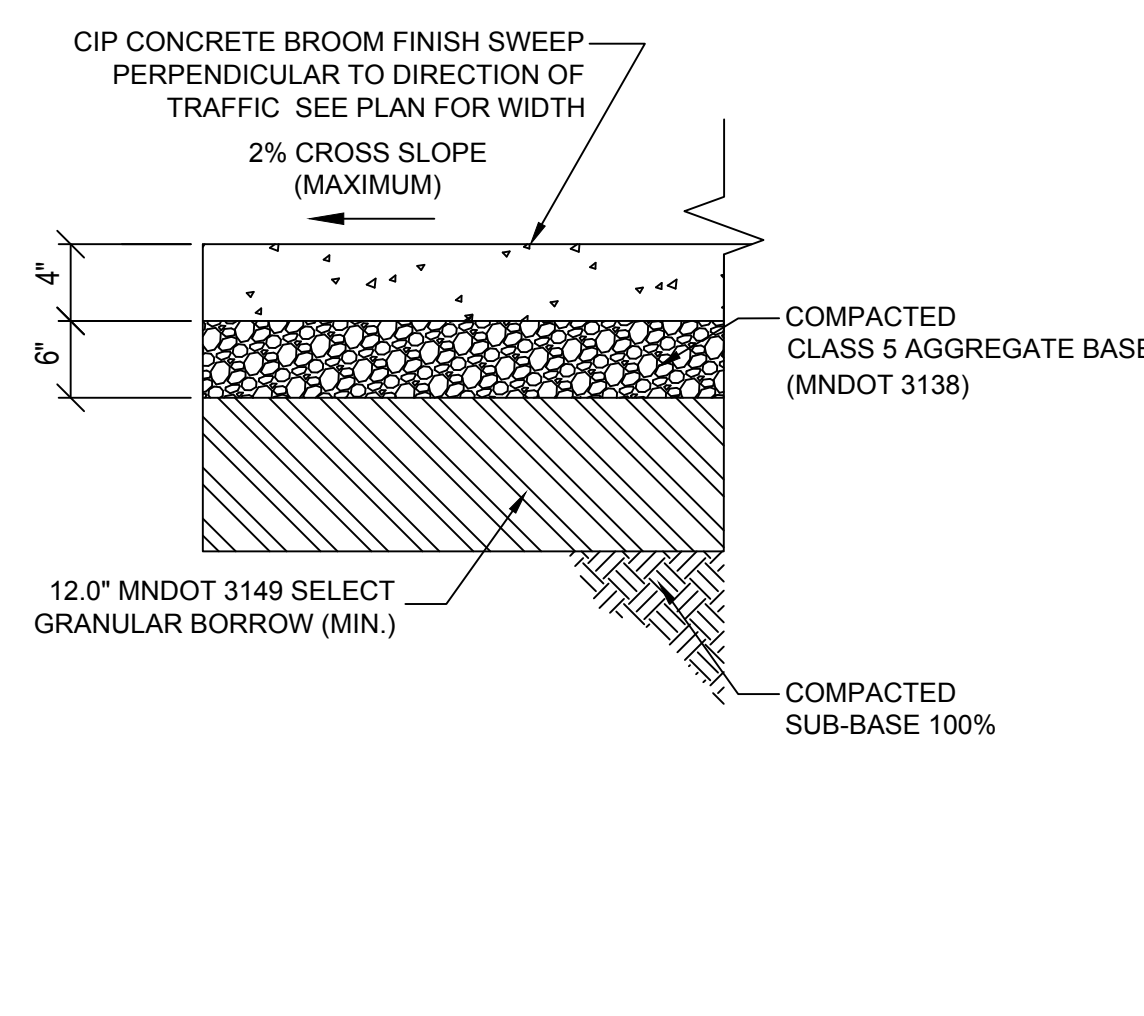
DEDUCT ALTERNATE #1



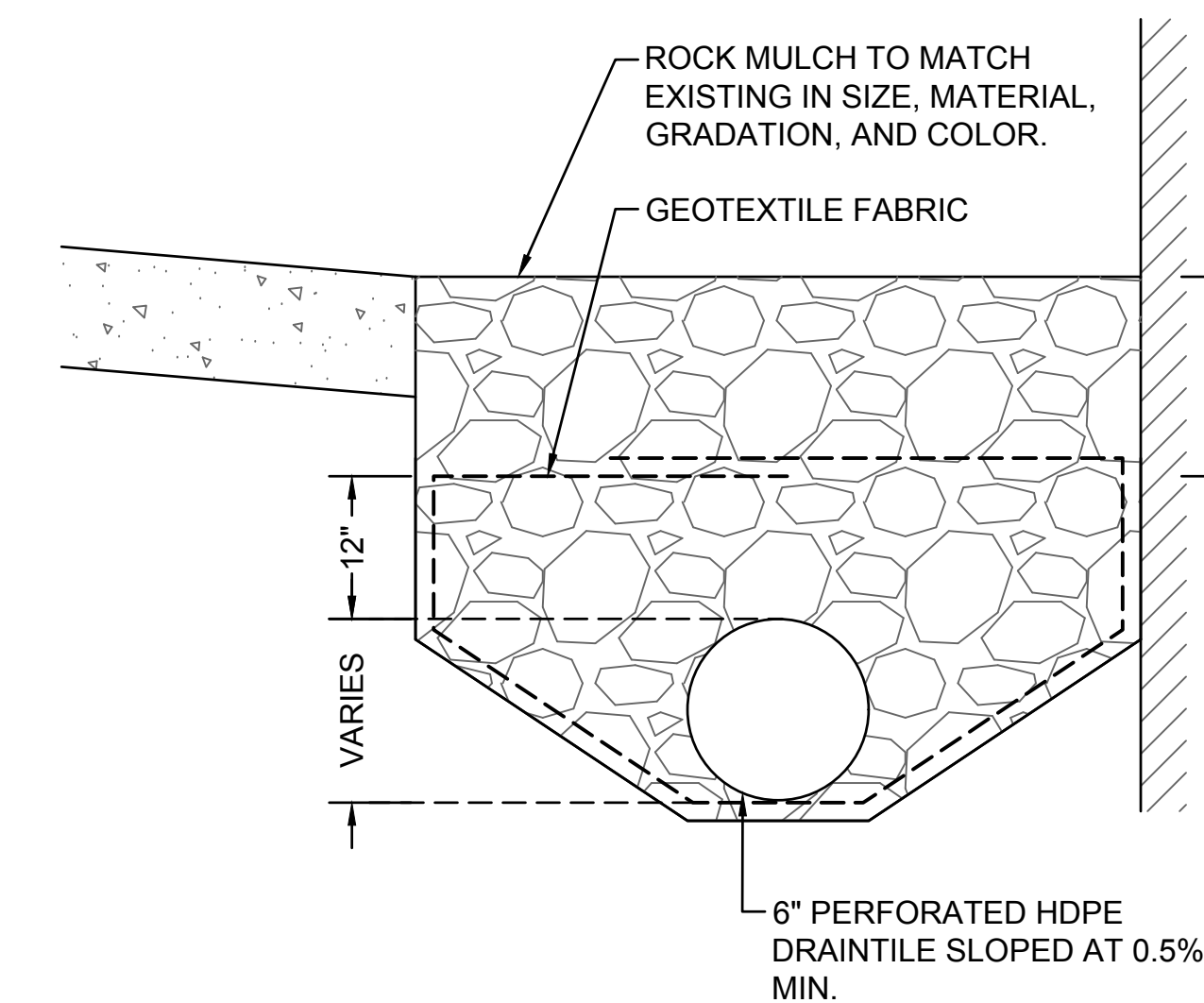
3 CONCRETE JOINTS
SCALE: NTS



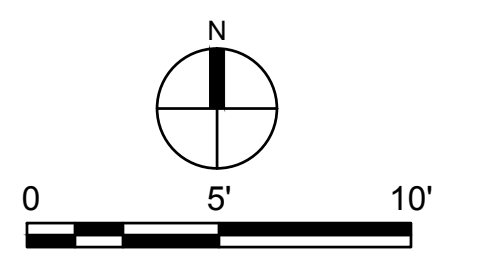
4 CONCRETE BOLLARDS
SCALE: NTS



5 CONCRETE SIDEWALK SECTION
SCALE: NTS



6 ROCK MULCH SECTION
SCALE: NTS



Revision#	Description	Date:
1	REVISION SET 1 (PREBID ADDENDUM)	07/6/2021

CONSULTANT

DUNHAM

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
phone: 612.465.7550 fax: 612.465.7551
web: dunhameng.com
mechanical • electrical consulting engineering

ARCHITECT/ENGINEER OF RECORD

ANDERSON

13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
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PRINT NAME: IAN J. WEBER, PE

SIGNATURE: *[Signature]*

DATE: 05/26/2020 LICENSE # 55502

Project Title
DESIGN RENOVATE BUILDING 28, FIRST FLOOR EAST SIDE FOR RRTP

Location
SAINT CLOUD, MN

Phase
CONSTRUCTION DOCUMENTS

Drawing Title
CIVIL SITE PLAN

Issue Date
MAY 22, 2020

Checked
LJW

Drawn
LJW

Project Number
656-19-306

Building Number
28

Drawing Number
CS101

VA

U.S. Department of Veterans Affairs

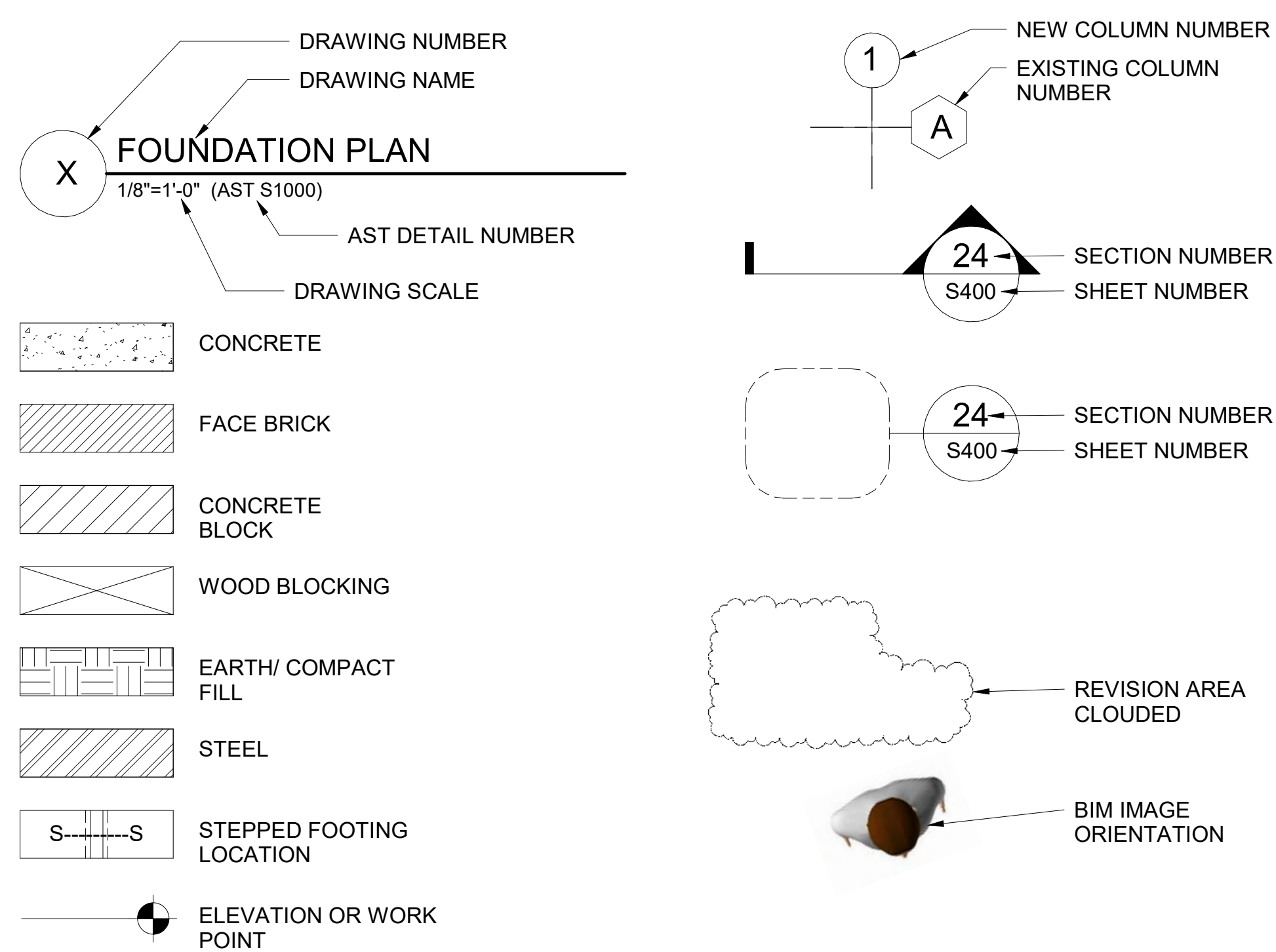
Veterans Health Administration
St. Cloud VA Health Care System

RENOVATE BUILDING 28 FIRST FLOOR EAST RRTP

ST. CLOUD VA HEALTH CARE SYSTEM MAIN CAMPUS, ST. CLOUD, MINNESOTA

VA PROJECT NUMBER
656-19-3069

DRAWING SYMBOLS



ABBREVIATIONS

A	ANCHOR BOLT	H	HORIZONTAL	Q	QUANTITY
AB	ADDITIONAL	HK	HOOK	R	RADIUS
ADD'L.	ALTERNATE	HS	HEADED STUDS	RD	ROOF DRAIN
ALT.	ARCHITECT(URAL)	HSS	HOLLOW STRUCTURAL SECTION	REINF.	REINFORCE(D), (ING)
B	BUILDING	I	INFORMATION	REQ'D.	REQUIRED
BLK.	BLOCK	J	JOIST BEARING ELEVATION	REV.	REVISION, REVISE(D)
BLKG.	BLOCKING	JST.	JOIST	S	SOUTH
BM.	BEAM	JT.	JOINT	SCHED.	SCHEDULE
BOT.	BOTTOM	K	KIP	SIM.	SIMILAR
BRG.	BEARING	KO	KNOCK-OUT	SJI	STEEL JOIST INSTITUTE
BTWN.	BETWEEN	KSI	KIPS PER SQUARE INCH	SPA.	SPACE(S)
C	CAST IN PLACE	L	LIVE LOAD	SQ.	SQUARE
CIP	CONTROL JOINT	LL	LONG LEG HORIZONTAL	STD.	STANDARD
CJ	CENTER LINE	LLV	LONG LEG VERTICAL	STL.	STEEL
CL	CLEAR(ANCE)	M	MASONRY	STRUCT.	STRUCTURAL
CLR.	CONCRETE	MAS.	MASONRY	T	TOP OF BEAM ELEVATION
CMU	MASONRY UNIT	MATL.	MATERIAL	TBE	TOP OF DECK ELEVATION
COL.	COMPOSITE	MAX.	MAXIMUM	TEMP.	TEMPORARY
COMP.	CONCRETE	MECH.	MECHANICAL	TFE	TOP OF FOOTING ELEVATION
CONC.	CONNECTION	MEZZ.	MEZZANINE	TPC	TOP OF PILE CAP ELEVATION
CONN.	CONSTRUCTION	MFG.	MANUFACTURE(R)	TPE	TOP OF PIER ELEVATION
CONST.	CONCRETE	MIN.	MINIMUM	TSE	TOP OF SLAB ELEVATION
CONT.	CONTINUOUS	MISC.	MISCELLANEOUS	TWE	TOP OF WALL ELEVATION
COORD.	COORDINATE	MO	MASONRY OPENING	TYP.	TYPICAL
CTRD.	CENTERED	N	NORTH	U	UNLESS NOTED OTHERWISE
D	DOUBLE	NIC	NOT IN CONTRACT	V	VERTICAL
DBL.	DIAMETER	NTS	NOT TO SCALE	W	WEST
DIA.	DIAGONAL	OC	ON CENTER(S)	W	WITH
DL	DEAD LOAD	OH	OVERHEAD	WP	WORK POINT
DO.	DITTO	OPNG.	OPENING	WWR	WELDED WIRE REINFORCEMENT
DTL.	DETAIL	OPP.	OPPOSITE		
DWG.	DRAWING	P	PRECAST CONCRETE		
E	EAST	PERIM.	PERIMETER		
EA.	EACH	PL.	PLATE		
ELEV.	ELEVATION	PLF	POUNDS PER LINEAR FOOT		
EMBED.	EMBEDMENT	PROJ.	PROJECT		
EQ.	EQUAL	PSF	POUNDS PER SQUARE FOOT		
EXIST.	EXISTING	PSI	POUNDS PER SQUARE INCH		
EXP.	EXPANSION				
EXT.	EXTERIOR				
F	FABRICATE(OR)				
FAB.	FLOOR DRAIN				
FD	FOUNDATION				
FNDG.	FOOTING				
FTG.					
G	GAGE, GAUGE				
GA.	GALVANIZED				
GALV.	GENERAL				
GC	CONTRACT(OR)				

DRAWING INDEX

SHEET NUMBER	SHEET NAME
S000	TITLE SHEET
S100	GENERAL NOTES
S101	SPECIAL INSPECTION NOTES
S110	PARTIAL BASEMENT PLANS & DETAILS
S200	PARTIAL FIRST FLOOR PLAN
S210	ATTIC FLOOR PLAN
S300	SECTIONS AND DETAILS
S301	SECTIONS AND DETAILS

Revision#	Description	Date
1	ADDENDUM 1	06-15-2021

CONSULTANT

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1940
PHONE: 612.465.7550 FAX: 612.465.7551
WEB: dunhameng.com
mechanical + electrical consulting engineering

AST
7301 OHMS LANE
SUITE #215 EDINA, MN 55439
(952) 854-9302 TEL. ASTENG.COM
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ANDERSON
13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj #

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REGISTRATION

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 ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: KEVIN D. CLINTON
SIGNATURE: *[Signature]*
DATE: 6/15/2021 LICENSE #17611

Project Title DESIGN RENOVATE BUILDING 28	Project Number VA# 656-19-306
Location SAINT CLOUD, MN	Building Number 28
Phase CONSTRUCTION DOCUMENTS	Drawing Number S000
Drawing Title TITLE SHEET	
Issue Date MAY 22, 2020	Checked KDC
	Drawn SSS

VA

U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

GENERAL STRUCTURAL NOTES

- I. DESIGN DATA**
- A. BUILDING CODE**
1. INTERNATIONAL BUILDING CODE 2018 EDITION
- B. DESIGN LOADS/DESIGN CRITERIA**
1. WIND LOAD
BASIC WIND SPEED (3-SECOND GUST) Vult = 120 MPH, RISK CATEGORY II
Vald = 93 MPH
EXPOSURE C
INTERNAL PRESSURE COEFFICIENTS, GCp +/-0.18
2. FLOOR LOADS
LIVE LOAD (L.L.) 100 PSF*
DEAD LOAD (SUPERIMPOSED) 10 PSF
3. STAIRS, CORRIDORS & LOBBIES (L.L.)
LIVE LOAD (L.L.) 100 PSF*
4. SEISMIC DESIGN DATA
SEISMIC IMPORTANCE FACTOR 1.5
RISK CATEGORY IV
MAPPED SPECTRAL RESPONSE ACCELERATIONS
..... 0.06 S₀
..... 0.21 S₁
..... 0.064 S_{0.2}
..... 0.034 S_{0.1}
SITE CLASS D
SEISMIC DESIGN CATEGORY A
5. DEFLECTION CRITERIA
ALL MEMBERS SUPPORTING MASONRY ARE DESIGNED FOR A MAXIMUM DEAD LOAD PLUS LIVE LOAD DEFLECTION OF SPAN/800 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.
* PERMUTED PER IBC, SEC. 1607.11
- 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. 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. 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).
- E. REFERENCE STANDARDS** - SEE IBC CHAPTER 35 FOR ALL REFERENCE STANDARDS.
- II. REQUIRED STRUCTURAL SUBMITTALS**
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	
STEEL	CURRENT AISC OR ICC SHOP CERTIFICATION	
	STRUCTURAL STEEL	
OTHER	MECHANICAL EQUIPMENT (LARGER THAN 500 LBS)	

- III. SITE WORK**
- A. GEOTECHNICAL REPORT**
1. FOUNDATIONS, RETAINING & BASEMENT WALLS, FOUNDATION DRAINAGE, SLABS ON GRADE & OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED & SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF GEOTECHNICAL REPORT NO. 13-006 BY INDEPENDENT TESTING TECHNOLOGY DATED JANUARY 25, 2013 (FOR PRIOR RENOVATION PROJECT) INCLUDING:
2. DESIGN NET SOIL BEARING CAPACITY IS AS FOLLOWS:
SPREAD FOOTINGS 3000 PSF
STRIP FOOTINGS 3000 PSF
3. MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF BUILDING PERIMETER FOOTINGS SHALL BE 42". ALL OPEN-AIR FOUNDATIONS HAVE A MINIMUM OF 60" FROST PROTECTION.
4. RESTRAINED FOUNDATION WALLS ARE DESIGNED FOR AN AT-REST EQUIVALENT FLUID PRESSURE OF 60 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.
5. UNRESTRAINED RETAINING WALLS ARE DESIGNED FOR AN ACTIVE EQUIVALENT FLUID PRESSURE OF 45 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.

- IV. CONCRETE**
- A. CONCRETE MATERIAL PROPERTIES**
1. CONCRETE PROPERTIES: STRENGTH (f'c @ 28 DAYS)
- FOOTINGS 3000 PSI
BASEMENT, STEM AND RETAINING WALLS 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 CONTENT SHALL NOT EXCEED 3% FOR NON-AIR ENTRAINMENT 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.
- B. REINFORCING MATERIAL PROPERTIES**
1. REINFORCING PROPERTIES: f_y KSI | ASTM
- ALL BARS UNLESS NOTED 60 | A615
WELDED WIRE FABRIC (SMOOTH) 65 | A185
WELDABLE REBAR 60 | A706
- 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 7.5.1, ALL REINFORCEMENT SHALL BE PLACED AND SUPPORTED PRIOR TO PLACING CONCRETE. "WET STICKING" OF REBAR, INCLUDING DOWELS, IS PROHIBITED.
4. 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 #1 LAP LENGTH BUT NOT LESS THAN 2 FEET BEYOND EDGE OF OPENINGS. PROVIDE 2 #4x4-D DIAGONAL BARS AT EACH CORNER FOR EACH LAYER OF REINFORCEMENT.
5. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.
6. PROVIDE ISOLATION JOINTS AROUND COLUMNS AT SLAB ON GRADE AREAS.
7. 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: |
| #8 THRU #18 BARS 2 |
| #5 & SMALLER BARS 1 1/2 |
| CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: |
| SLABS & WALLS #14 & #18 BARS 1 1/2 |
| #11 & SMALLER BARS 1 |
- V. MASONRY**
- A. MASONRY MATERIAL PROPERTIES**
1. MASONRY PROPERTIES: STRENGTH (PSI) | ASTM
- HOLLOW MASONRY UNITS 3750 | C90-N1
UNIT MASONRY (ASSY., f_m) 2500
BRICK MASONRY (ASSY., f_m) 1400 | C216-SW
MORTAR TYPE S (LOAD BRG. BLOCK) 1800 | C270
GROUT (MIN) 2000 | C476
REINFORCING BARS 60,000 | A615
COLD DRAWN STEEL WIRE 70,000 | A62
- B. GENERAL MASONRY**
1. DESIGN IS BASED ON VALUES AS PUBLISHED IN THE "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" (ACI-530 / ASCE-5 / TMS-402).
2. ALL HOLLOW UNIT BLOCK COMPRESSION TEST STRENGTHS REQUIRED TO ACHIEVE THE f_m STATED ABOVE SHALL BE ACCORDING TO "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI-530.1 / ASCE-6 / TMS-402, SECTION 1.4) BASED ON STRENGTHS BY THE UNIT STRENGTH METHOD.
3. DESIGN IS BASED ON ENGINEERED MASONRY / ALLOWABLE STRESS DESIGN.
4. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING CMU REINFORCEMENT SIZES, SPACING, LOCATIONS, QUANTITIES AND BENDING AND CUTTING SCHEDULES.
5. BRICK TIES SHALL BE A MIN. OF 3/16" DIA. ADJUSTABLE RECTANGULAR WALL TIES AS MANUFACTURED BY DUR-O-WALL OR APPROVED EQUAL. PROVIDE ONE TIE FOR EACH 2.00 SQUARE FEET OF WALL AREA. TIE SPACING RECOMMENDATION IS 16" ON CENTER VERTICALLY & 18" ON CENTER HORIZONTALLY.
- VI. 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
HIGH STRENGTH BOLTS, U.N.O. 74,000 | A325
ANCHOR BOLTS 36,000 | F1554
WELDING ELECTRODES E70XX | A233
DECK WELDING ELECTRODES 360XX | A233
STRUCTURAL PIPES 55,000 | A53 GRADE B
STRUCTURAL TUBES 50,000 | A500 GRADE C
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.
- 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 U.N.O.
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. 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" U.N.O.
4. APPLY FABRICATOR'S STANDARD PRIMER TO INTERIOR STRUCTURAL STEEL TO PROVIDE A DRY FILM THICKNESS OF NOT LESS THAN 1.0 MILS.

- C. STEEL DECK**
1. ALL STEEL DECKS SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH IBC CHAPTER 22, SECTION 2210 - COLD FORMED STEEL AND THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS, U.N.O.
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. COMPOSITE METAL FLOOR DECK SHALL BE PHOSPHATIZED/PAINTED & LAID OUT FOR THREE SPANS WHERE POSSIBLE. THE COMPOSITE FLOOR SYSTEM SHALL BE CAPABLE OF SUPPORTING THE SUPERIMPOSED LOADS AS SHOWN ON THE DRAWINGS.
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. THE GENERAL CONTRACTOR, SPECIAL INSPECTOR, AND CONCRETE SUBCONTRACTOR SHALL REVIEW THE CONDITION OF THE COMPOSITE DECK INSTALLATION THE DAY PRIOR TO PLACING CONCRETE AND VERIFY THAT THE SYSTEM IS READY TO RECEIVE THEIR WORK. ANY MODIFICATIONS REQUIRED AS A RESULT OF THIS MEETING MUST BE COMPLETED PRIOR TO PLACING CONCRETE.
7. 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.

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Revision#	Description	Date:
1	ADDENDUM 1	06-15-2021

CONSULTANT

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
phone 612.465.7550 fax 612.465.7551
web dunhameng.com
mechanical + electrical consulting engineering

AST PROJECT #: MN 1855

AST
7301 OHMS LANE
SUITE #215 EDINA, MN 55439
(952) 854-9302 TEL ASTENG.COM
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ARCHITECT/ENGINEER OF RECORD

ANDERSON
13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj #

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REGISTRATION

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 ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: KEVIN D. CLINTON
SIGNATURE: *[Signature]*
DATE: 6/15/2021 LICENSE #17611

Project Title DESIGN RENOVATE BUILDING 28	Project Number VA# 656-19-306
Location SAINT CLOUD, MN	Building Number 28
Phase CONSTRUCTION DOCUMENTS	Drawing Number S100
Drawing Title GENERAL NOTES	
Issue Date MAY 22, 2020	Checked KDC
	Drawn SSS

VA

U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

SPECIAL INSPECTIONS/TESTING

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

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. SECTION 1704.2.5 2. SECTION 1705.2 3. SECTION 1705.3 4. SECTION 1705.4 5. SECTION 1705.6 | <p>FABRICATED ITEMS
 STEEL CONSTRUCTION
 CONCRETE CONSTRUCTION
 MASONRY CONSTRUCTION
 SOILS</p> |
|---|---|

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

IBC 1705.2.2 VERIFICATION AND INSPECTION OF COLD-FORMED STEEL DECK

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE	YES	NO	N.A.
1. Material verification of cold-formed steel deck:							
a. Identification markings to conform to ASTM standards specified in the approved contract documents.	-	X	Applicable ASTM material standards		X		
b. Manufacturer's certified test reports.	-	X			X		
2. Inspection of welding:							
a. Cold-formed steel deck:							
1) Floor deck welds.	-	X	AWS D1.3		X		
2) Reinforcing steel.							

AISC 360-16 QUALITY CONTROL AND QUALITY ASSURANCE FOR STEEL CONSTRUCTION

INSPECTION TASKS	QC (Quality Control)	QA (Quality Assurance)	YES	NO	N.A.
TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING					
Welding procedure specifications (WPS) available	P	P	X		
Manufacturer certifications for welding consumables available	P	P	X		
Material identifications (type/grade)	O	O	X		
Welder identification system	O	O	X		
Fit-up of fillet welds	O	O	X		
Check welding equipment	O	-	X		
TABLE N5.4-2 INSPECTION TASKS DURING WELDING					
Use of qualified welders	O	O	X		
Control and handling of welding consumables	O	O	X		
WPS followed	O	O	X		
Welding techniques	O	O	X		
TABLE N5.4-3 INSPECTION TASKS AFTER WELDING					
Welds cleaned	O	O	X		
Size, length and location of welds	P	P	X		
Welds meet visual acceptance criteria	P	P	X		
Keeps	P	P	X		
Document acceptance or rejection of welding joint or member	P	P	X		
TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING					
Manufacturer's certifications available for fastener materials	O	O	X		
Fasteners marked in accordance with ASTM requirements	O	O	X		
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O	X		
Proper bolting procedure selected for joint detail	O	O	X		
TABLE N5.6-2 INSPECTION TASKS DURING BOLTING					
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	O	O	X		
Joint brought to the snug-tight condition prior to the pretensioning operation	O	O	X		
Fastener component not turned by the wrench prevented from rotating	O	O	X		
TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING					
Document acceptance or rejection of bolted connections	P	P	X		

O - Observe these items on a random basis. Operations need not be delayed pending these inspections.
 P - Perform these tasks for each welded joint or member.

IBC TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE	YES	NO	N.A.
1. Inspection of reinforcing steel, and placement.	-	X	ACI 318, Ch. 20 25.2, 25.3, 26.6.1+26.6.3	1908.4	X		
2. Inspection of anchors post-installed in hardened concrete members	-	X	ACI 318, 17.8.2	-			X
3. Verifying use of required design mix.	-	X	ACI 318, Ch. 19, 26.4.4, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	X		
4. Prior to concrete placement, fabricate specimens for strength tests, perform slump, and air content tests, and determine the temperature of the concrete.	X	-	ASTM C 172 ASTM C 31 ACI 318, 26.5, 26.12	1908.10	X		
8. Inspection for maintenance of specified curing temperature and techniques.	-	X	ACI 318, 26.5.3-26.5.5	1908.9	X		
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318, 26.11.1.2(b)	-			X

TMS 402 TABLE 1.18.2 LEVEL B QUALITY ASSURANCE FOR MASONRY

MINIMUM TESTS							
Verification of f_m and $f_{m,c}$ prior to construction, except where specifically exempted by this Code.							
INSPECTION TASK	CONTINUOUS	PERIODIC	YES	NO	N.A.		
1. Verify compliance with the approved submittals.			X				
2. As masonry construction begins, verify that the following are in compliance:							
a. Proportions of site-prepared mortar.	-	X	X				
b. Construction of mortar joints.	-	X	X				
3. Prior to grouting, verify that the following are in compliance:							
a. Grout space.	-	X	X				
b. Grade, type, and size of reinforcement and anchor bolts.	-	X	X				
c. Construction of mortar joints.	-	X	X				
4. Verify during construction:							
a. Size and location of structural elements.	-	X	X				
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	-	X	X				
c. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C)).	-	X	X				
5. Observe preparation of grout specimens, mortar specimens, and/or prisms.	-	X	X				

IBC TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	YES	NO	N.A.
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X	X		
2. Verify excavations are extended to proper depth and have reached proper materials.	-	X	X		
3. Perform classification and testing of compacted fill materials.	-	X	X		
4. Verify use of proper materials, densities, and fill thicknesses during placement and compaction of compacted fill.	X	-	X		
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	-	X	X		

VIII. STRUCTURAL TESTS
 THE OWNER SHALL EMPLOY ONE OR MORE TESTING AGENCIES TO PROVIDE STRUCTURAL TESTING DURING CONSTRUCTION. THE MINIMUM STRUCTURAL TESTING REQUIRED IN ACCORDANCE WITH THE IBC IS SUMMARIZED BELOW.

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. CONCRETE 2. MASONRY 3. ANCHORAGE | <p>CYLINDER COMPRESSION TESTING
 HOLLOW UNIT BLOCK COMPRESSIONS TESTS (UNIT STRENGTH METHOD)
 ** POST-INSTALLED EXPANSION OR ADHESIVE ANCHORS</p> |
|---|---|

** 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.

TABLE 1 - SUMMARY OF REQUIRED STRUCTURAL TESTS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE	YES	NO	N.A.
1. CONCRETE							
a. Cylinder Compression Testing	-	X	ASTM C39		X		
2. MASONRY							
a. Hollow Unit Block Compression Tests (Unit Strength Method)	-	X	ASTM C90	Section 2105	X		
3. POST-INSTALLED CONCRETE ANCHORS							
a. Expansion anchors	-	X	ICC-ES AC193		X		
b. Adhesive anchors	-	X	ICC-ES AC308		X		

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Revision#	Description	Date
1	ADDENDUM 1	06-15-2021

CONSULTANT

DUNHAM
 50 South Sixth Street / Suite 1100
 Minneapolis, Minnesota 55402-1540
 phone 612.465.7550 fax 612.465.7551
 web dunhameng.com
 mechanical + electrical consulting engineering

AST PROJECT #:
MN 1855

7301 OHMS LANE
SUITE #215 EDINA, MN 55439
(952) 854-9302 TEL ASTENG.COM

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ARCHITECT/ENGINEER OF RECORD

13605 1st Ave. N. #100 Plymouth, MN 55441
 P 763.412.4000 | F 763.412.4090 | ae-mn.com
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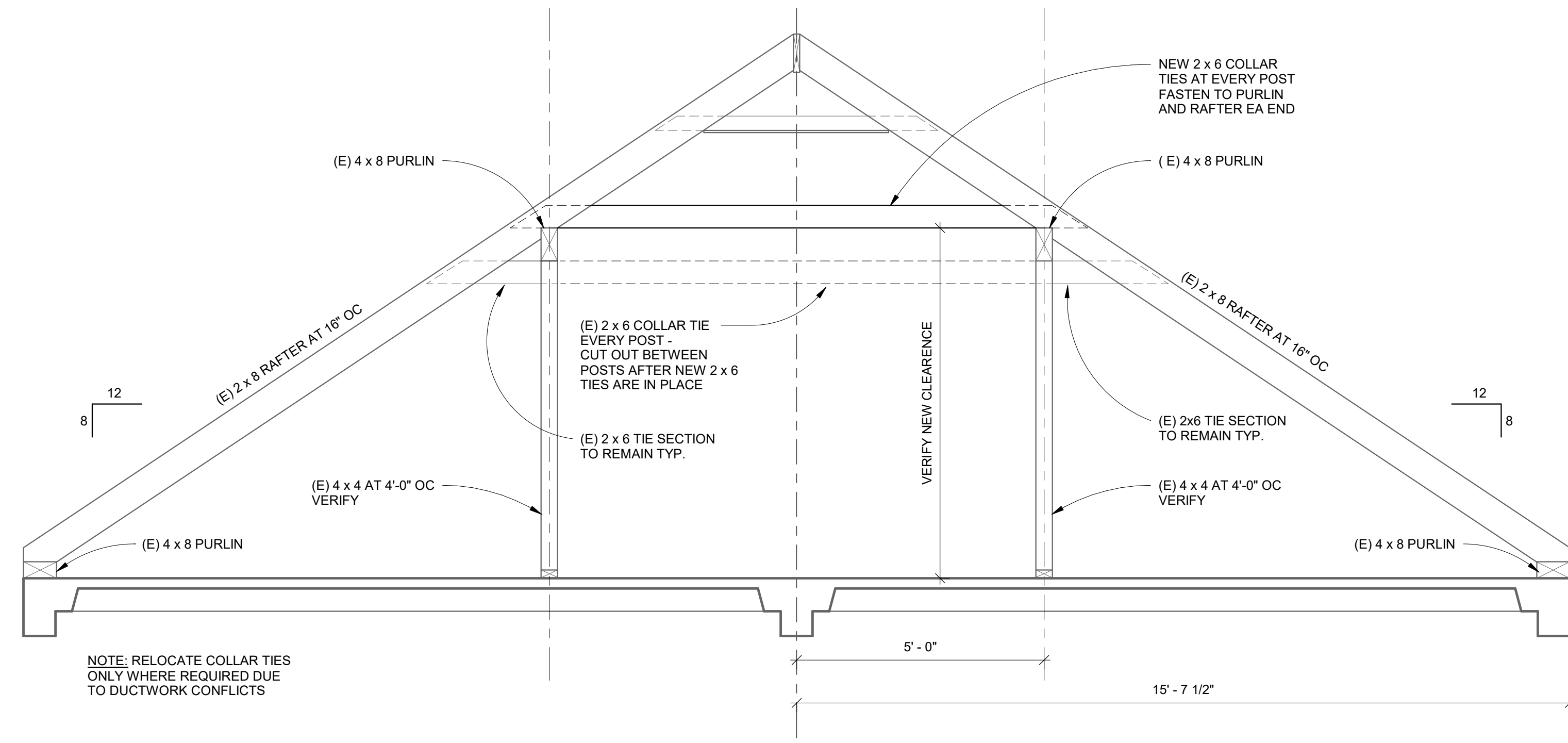
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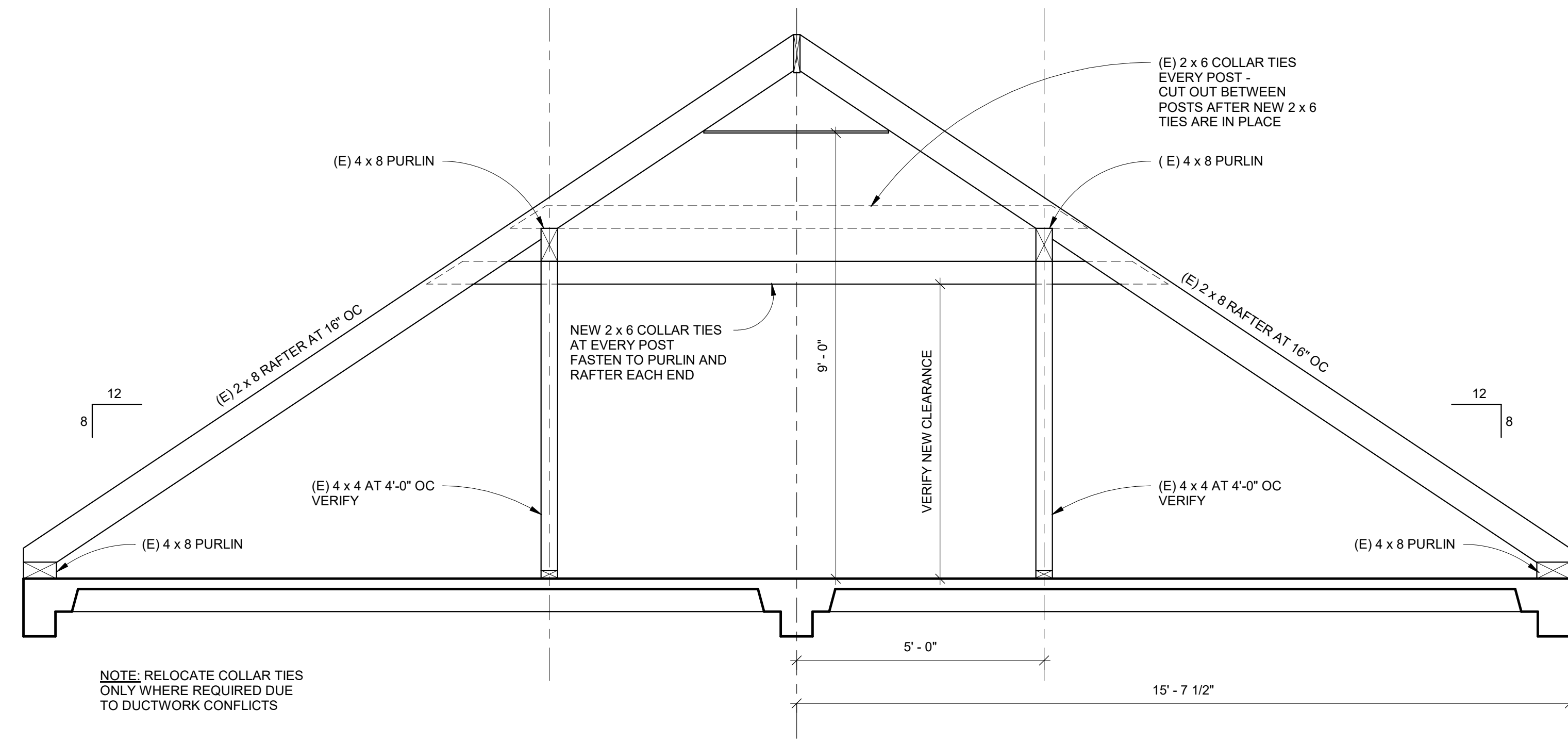
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Project Title DESIGN RENOVATE BUILDING 28	Project Number VA# 656-19-306	Location SAINT CLOUD, MN	Building Number 28
Phase CONSTRUCTION DOCUMENTS	Drawing Title SPECIAL INSPECTION NOTES	Drawing Number S101	
Issue Date MAY 22, 2020	Checked KDC	Drawn SSS	

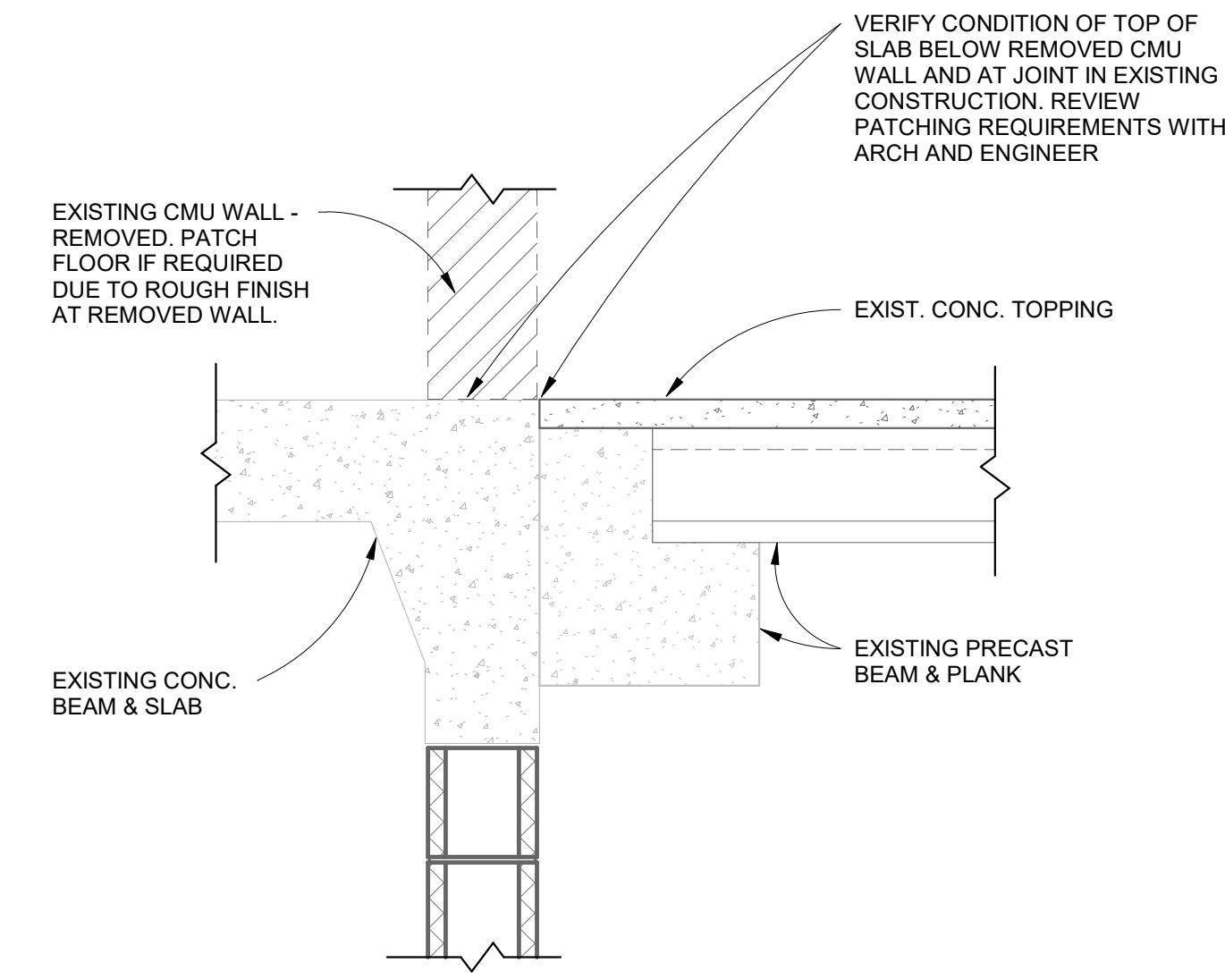
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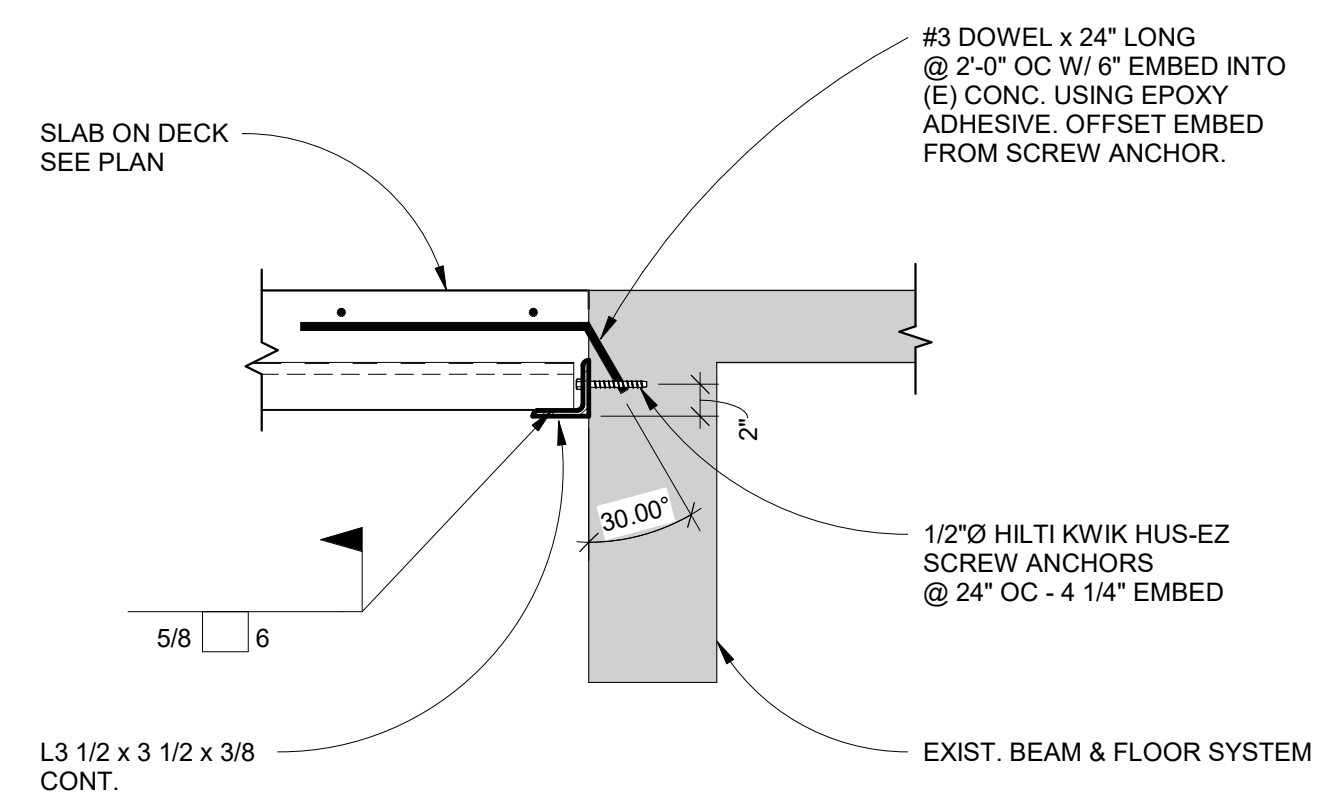
6 SECTION AT RELOCATED COLLAR TIES
1/2" = 1'-0"



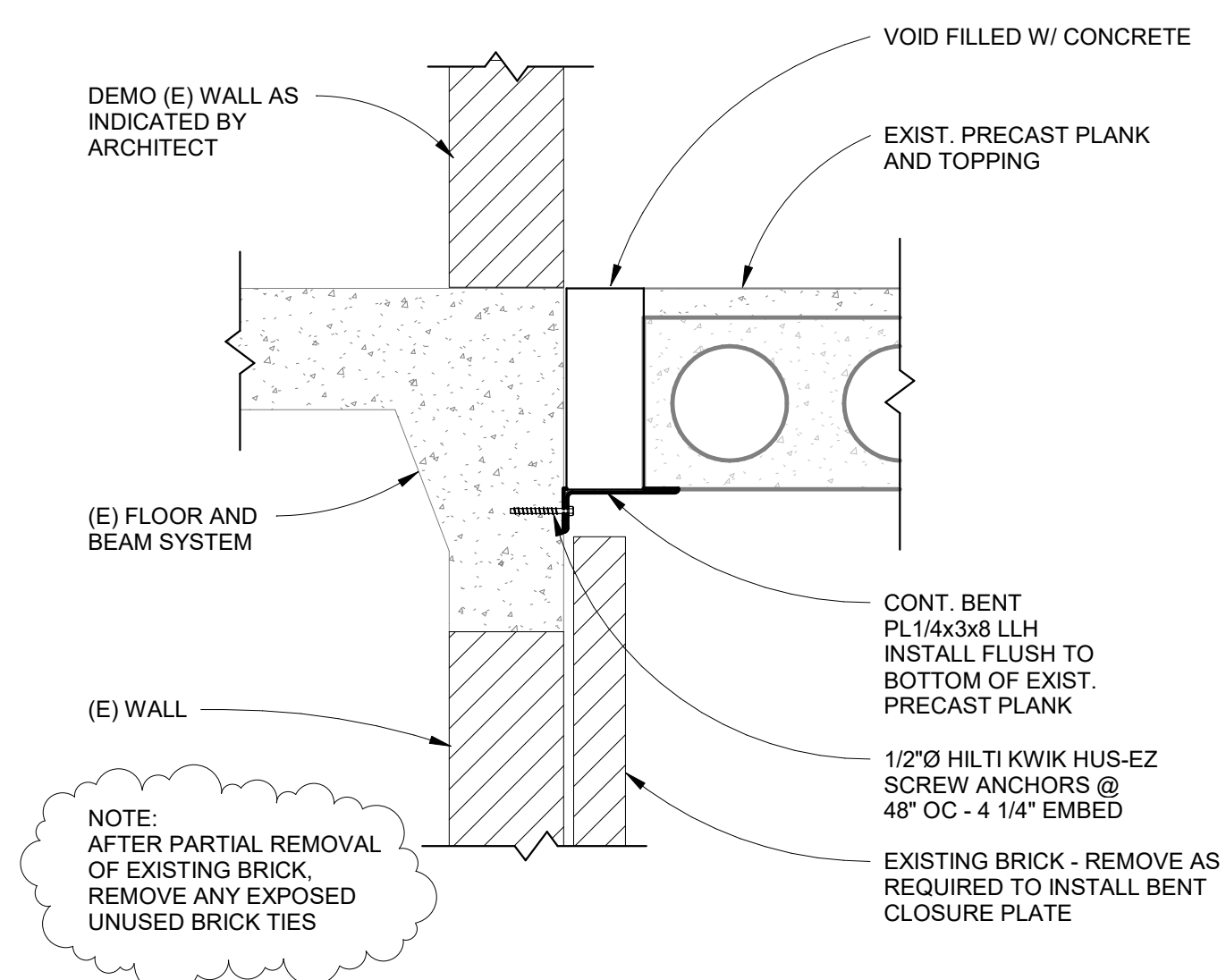
7 ALTERNATE SECTION AT RELOCATED COLLAR TIES
1/2" = 1'-0"



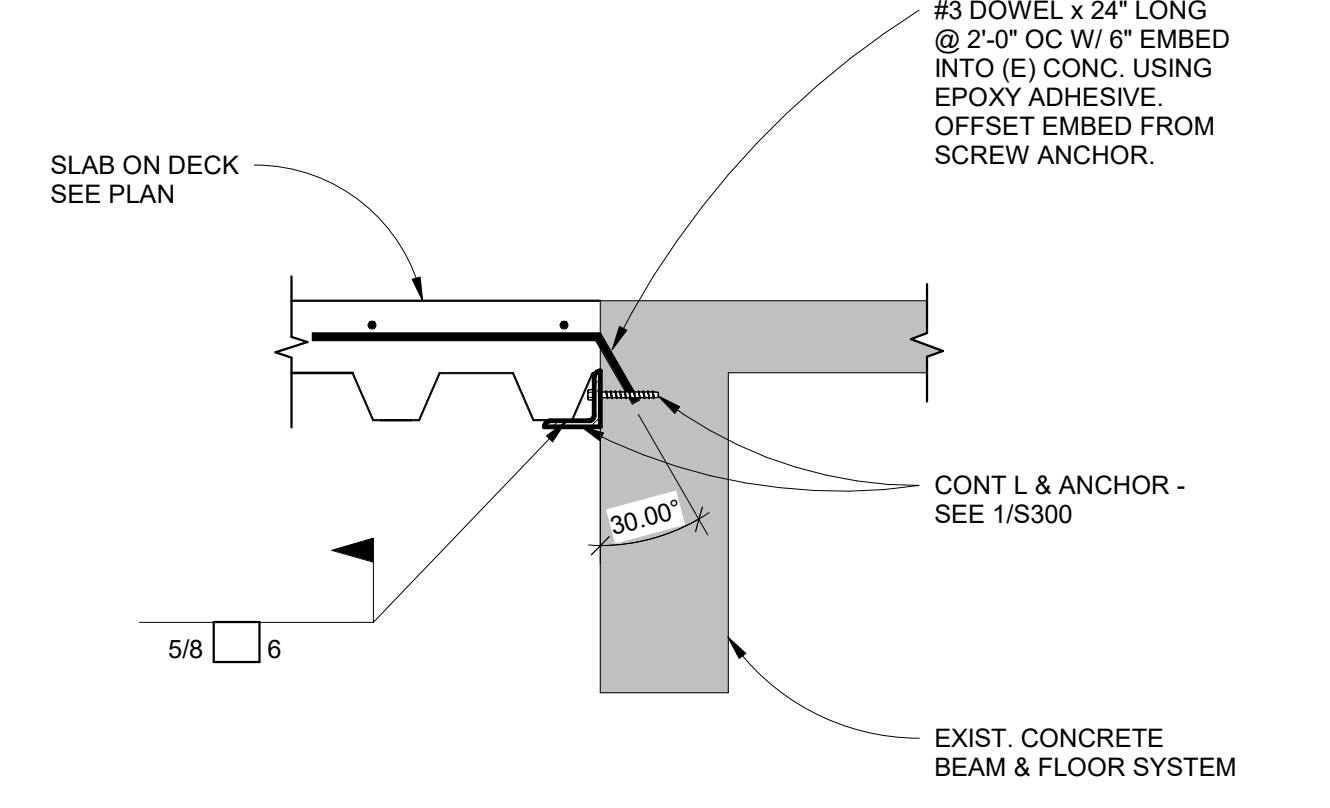
4 EXISTING/NEW FLOOR JOINT AT INFILL
1" = 1'-0"



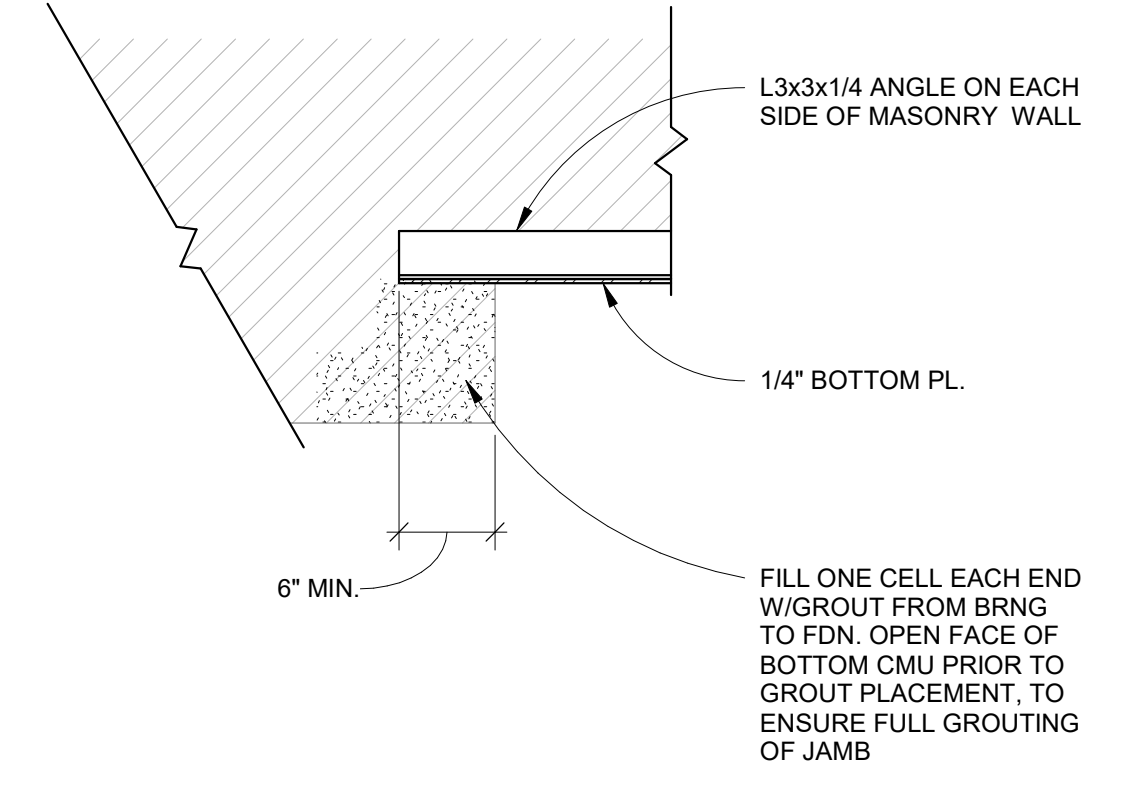
1 FLOOR INFILL
1" = 1'-0"



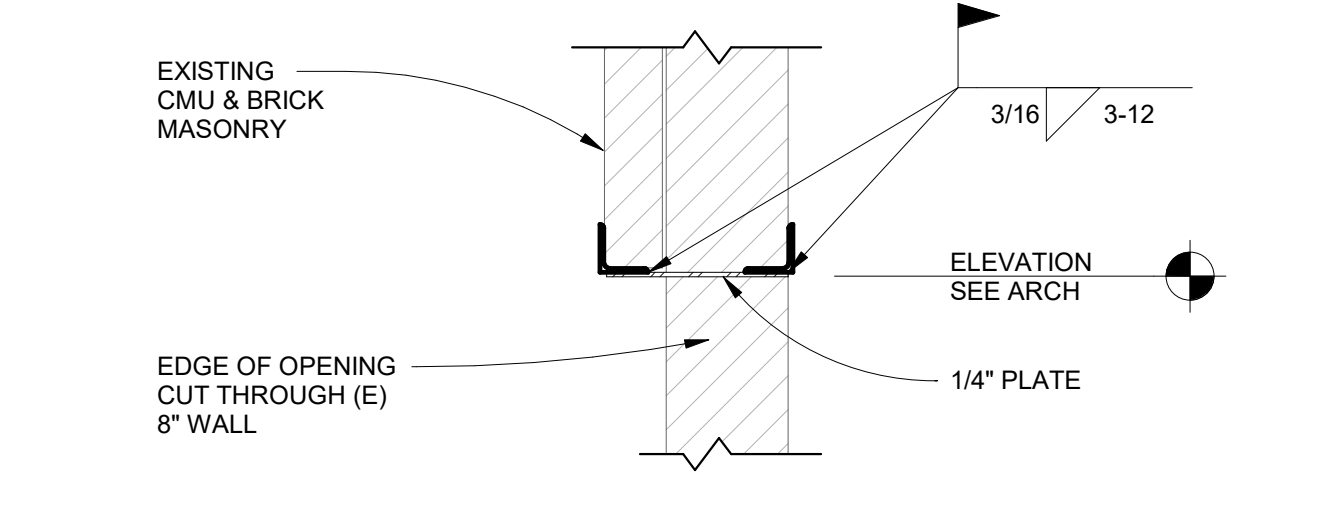
5 EXISTING/NEW FLOOR JOINT AT INFILL
1" = 1'-0"



2 FLOOR INFILL
1" = 1'-0"



3 LINTEL ANGLE DETAIL
1" = 1'-0"



NOTE: FINISH OF OPENING MUST MEET ARCHITECT'S REQUIREMENTS

Revision#	Description	Date:
1	ADDENDUM 1	06-15-2021

CONSULTANT

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE: 612.465.7550 FAX: 612.465.7551
WEB: dunhameng.com
mechanical + electrical consulting engineering

ARCHITECT/ENGINEER OF RECORD

ANDERSON
13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
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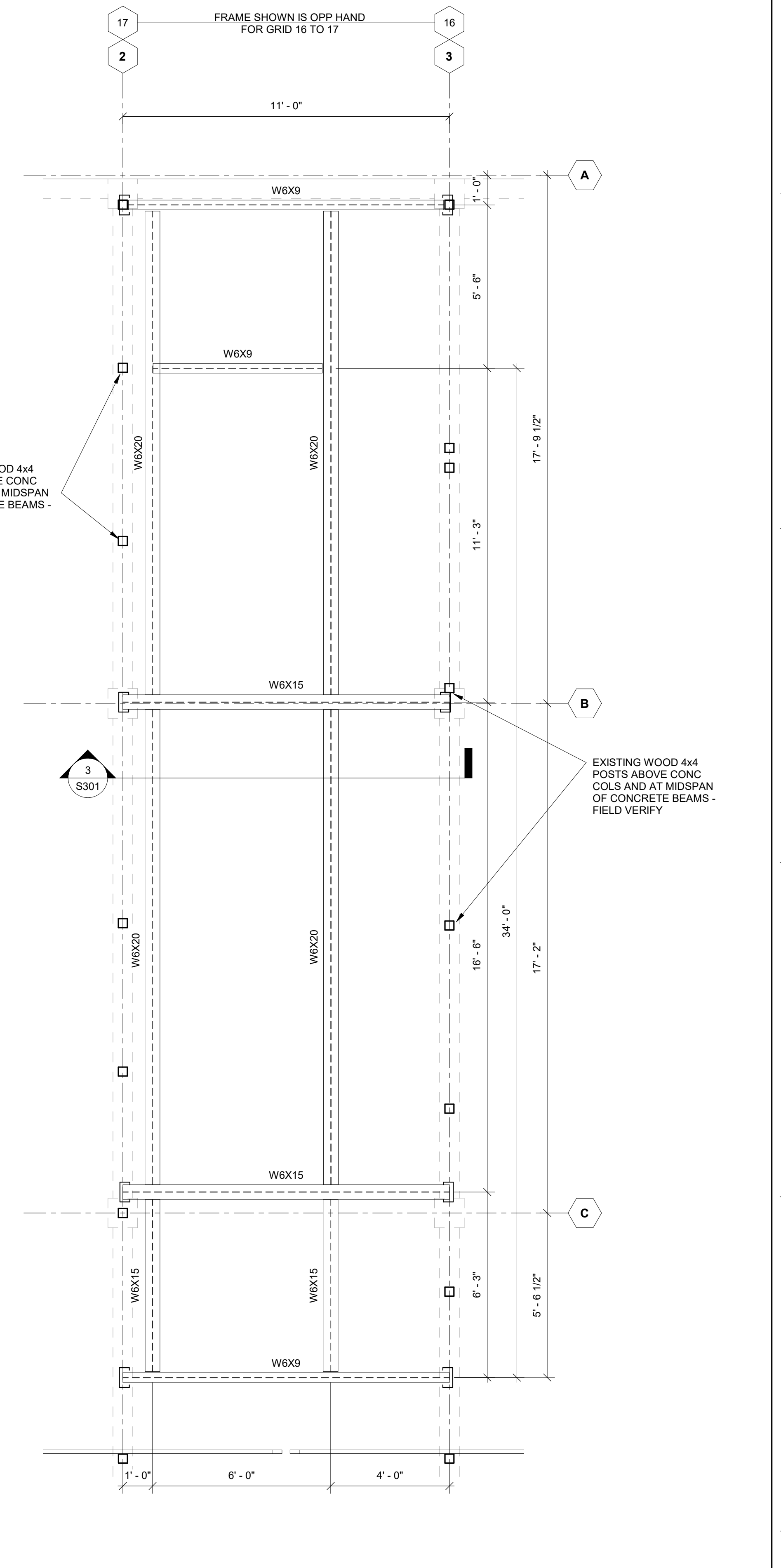
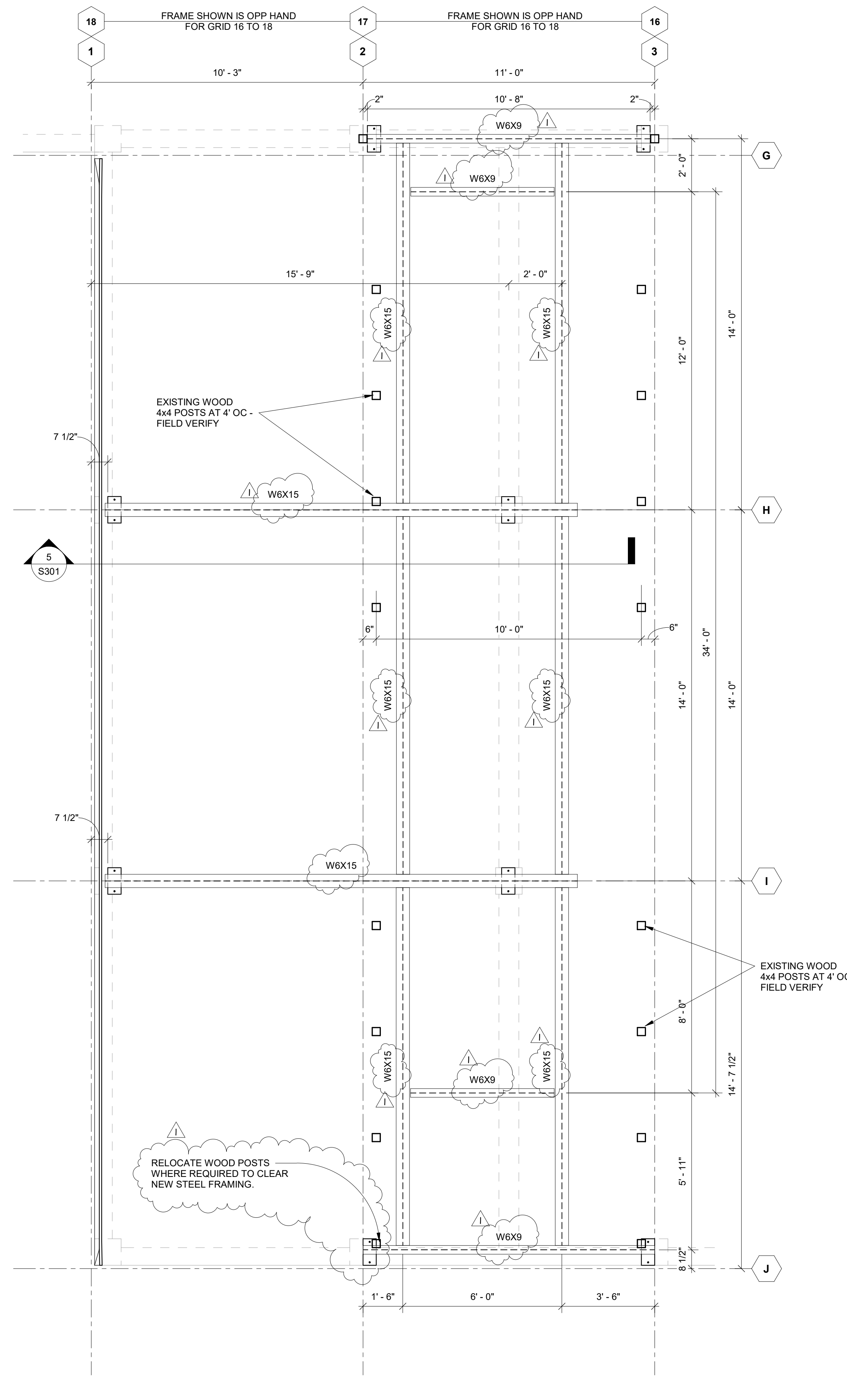
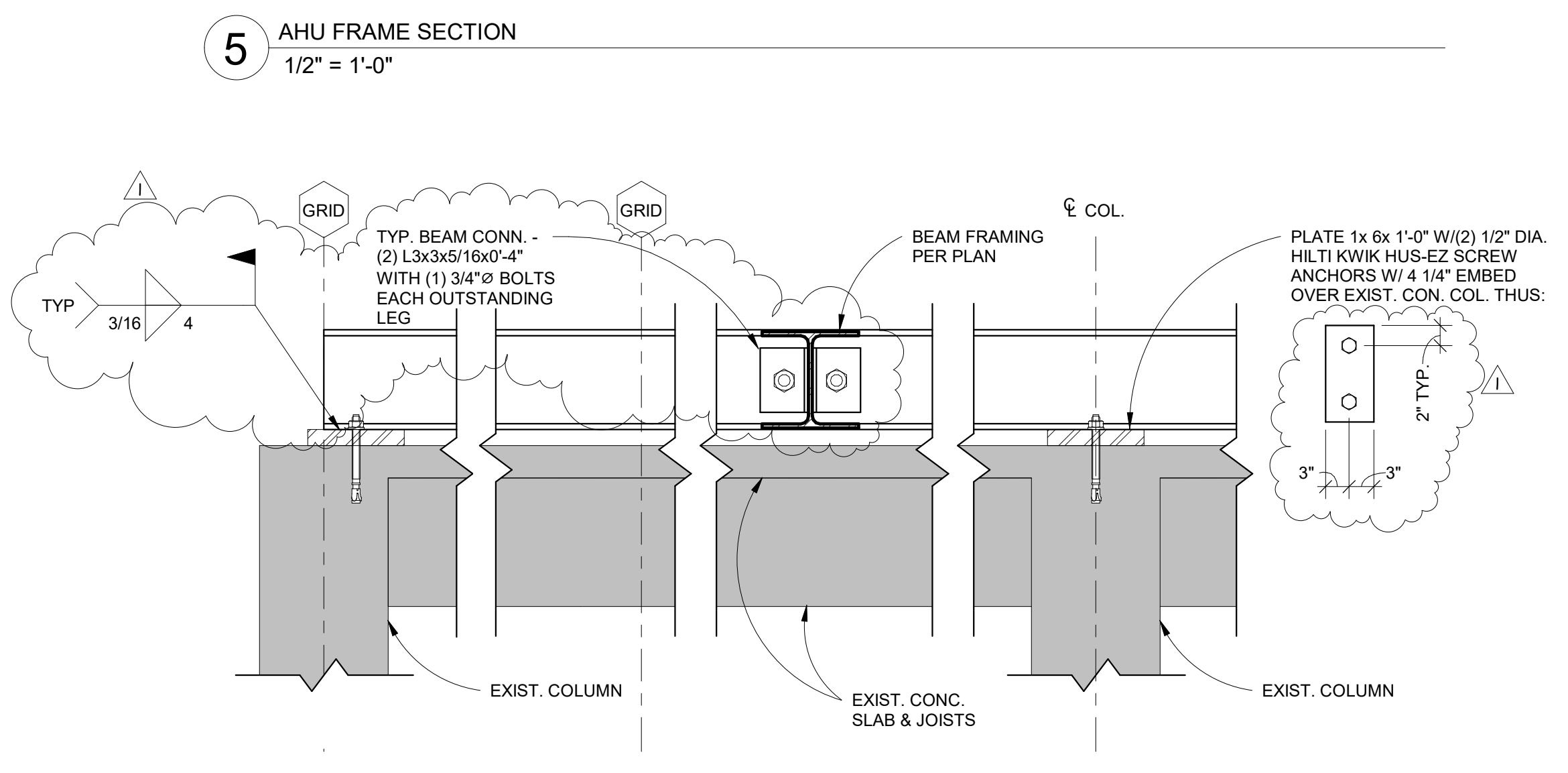
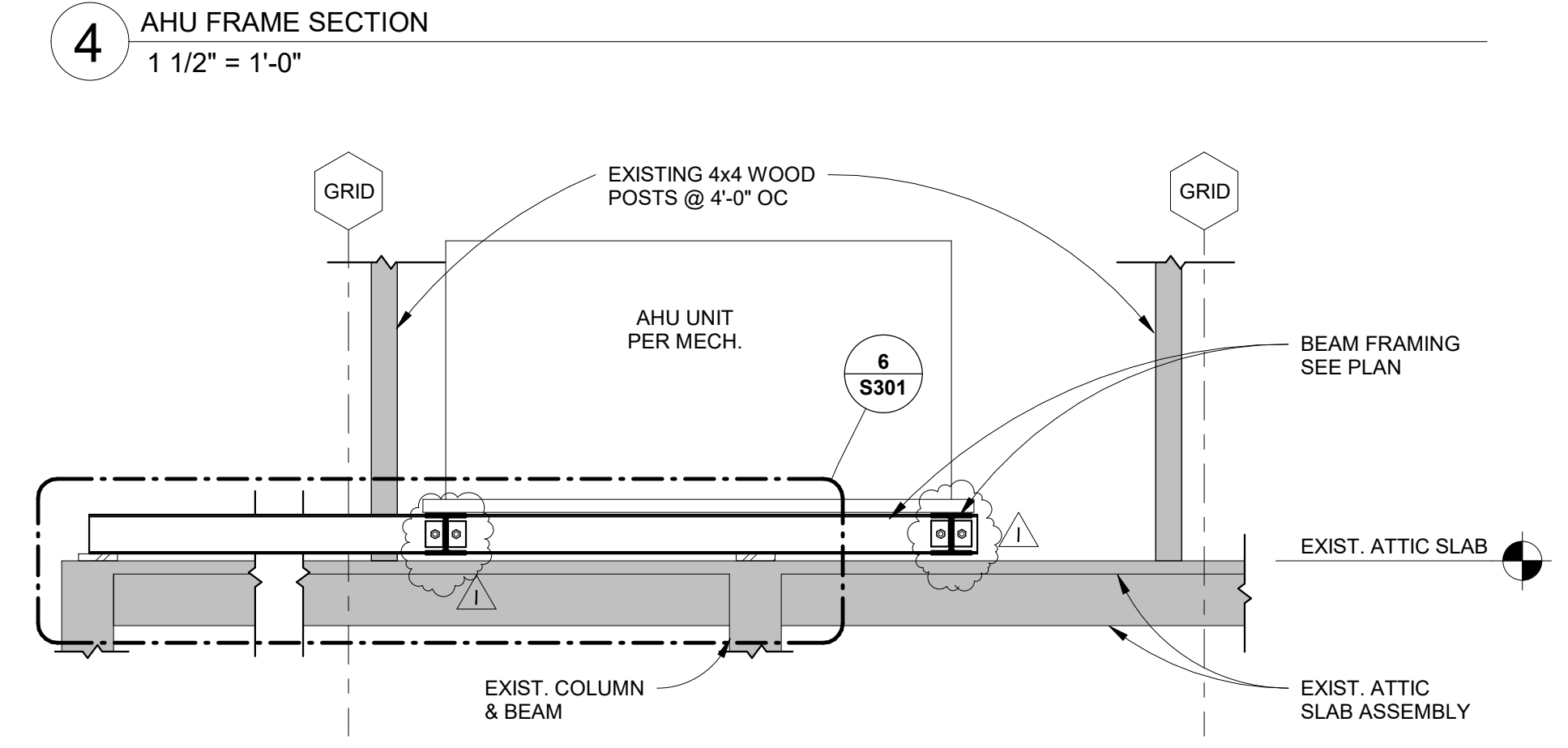
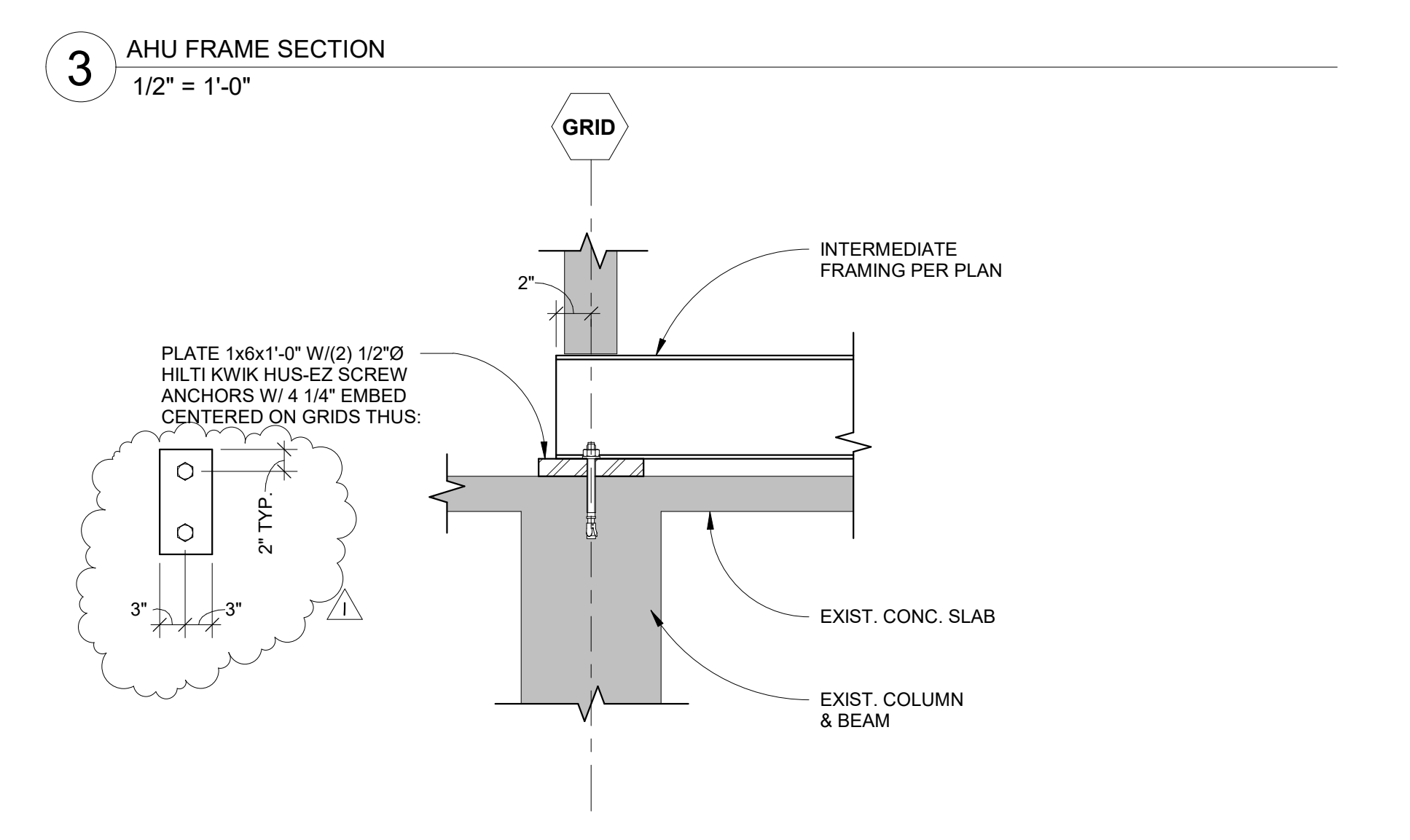
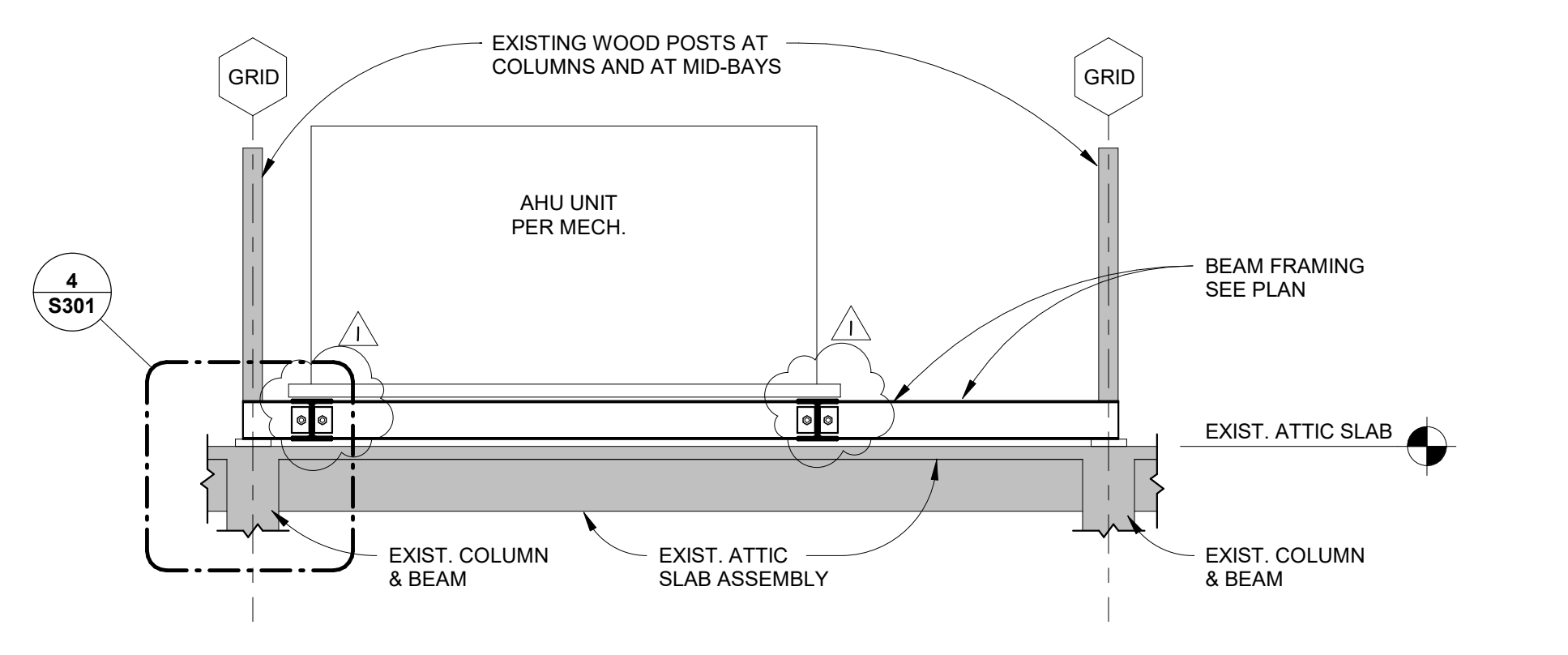
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: KEVIN D. CLINTON
SIGNATURE: *[Signature]*
DATE: 6/15/2021 LICENSE #17611

Project Title DESIGN RENOVATE BUILDING 28		Project Number VA# 656-19-306	
Location SAINT CLOUD, MN		Building Number 28	
Phase CONSTRUCTION DOCUMENTS		Drawing Number S300	
Issue Date MAY 22, 2020	Checked KDC	Drawn SSS	

VA U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

6/15/2021 11:29:31 AM
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VA FORM 08 - 6231



AHU FRAME NOTES
1. SEE 18301 FOR AHU FRAME NOTES.

AHU FRAME NOTES
1. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO FABRICATING STEEL.
2. VERIFY AHU SIZE AND LAYOUT WITH MECH SUPPLIER. DESIGN BASED ON VISION AIR HANDLER MODEL CAH024GCHM. BASE DIMENSIONS OF 84" x 430". WEIGHT = 9201 LBS. NOTIFY ARCHITECT AND ENGINEER IF SIZE VARIES.
3. BEAR FRAME ON STEEL PLATES LOCATED AS SHOWN OVER EXISTING BEAMS AND COLUMNS ONLY. VERIFY LAYOUT OF EXISTING BEAMS AND COLUMNS. DO NOT GROUT BELOW W6 BEAMS.

2 AHU FRAMING PLAN SOUTH
3/8" = 1'-0"

1 AHU FRAMING PLAN NORTH
3/8" = 1'-0"

Revision#	Description	Date
1	ADDENDUM 1	06-15-2021

CONSULTANT

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE 612.465.7550 FAX 612.465.7551
WEB dunhameng.com
mechanical + electrical consulting engineering

ARCHITECT/ENGINEER OF RECORD

AST
7301 OHMS LANE
SUITE #215
EDINA, MN 55439
ASTENG.COM
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ANDERSON
13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj #

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PRINT NAME: KEVIN D. CLINTON
SIGNATURE: *Kevin D. Clinton*
DATE: 6/15/2021 LICENSE #17611

Project Title
DESIGN RENOVATE BUILDING 28

Location
SAINT CLOUD, MN

Phase
CONSTRUCTION DOCUMENTS

Drawing Title
SECTIONS AND DETAILS

Issue Date
MAY 22, 2020

Checked
KDC

Drawn
SSS

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