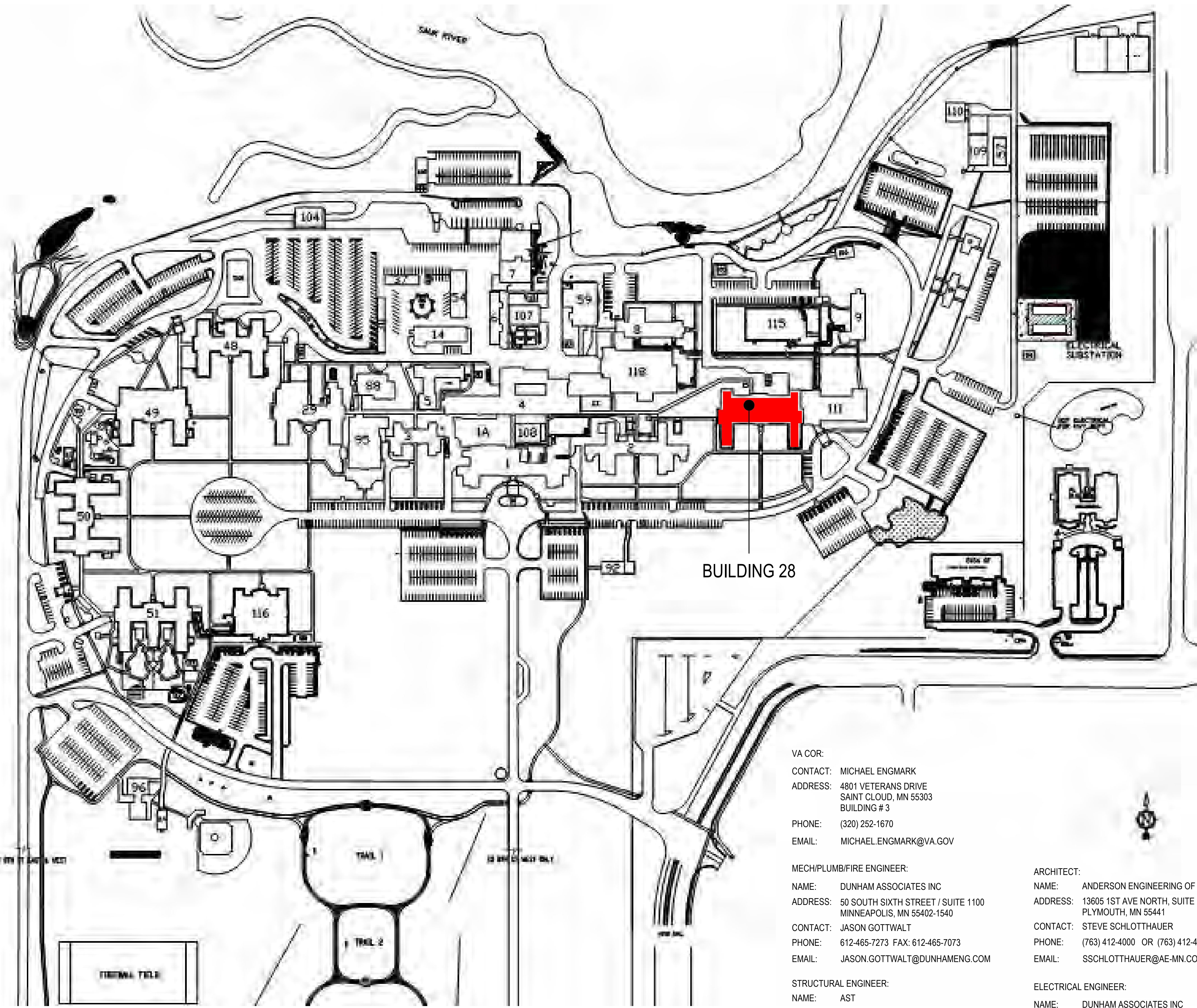


RENOVATE BUILDING 28

FIRST FLOOR EAST RRTP

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		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
G000	COVER SHEET			
G001	ABBREVIATIONS			
G101	BASEMENT LEVEL LIFE SAFETY PLAN			
G111	FIRST LEVEL LIFE SAFETY PLAN			
G121	SECOND LEVEL LIFE SAFETY PLAN			
G201	INFECTOR CONTROL & PHASING PLANS			
H001	HAZARDOUS MATERIALS PLAN / ASBESTOS / LEAD			

SHEET INDEX - CIVIL		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
CJ101	DEMOLITION, GRADING, AND UTILITY PLANS			
CS101	CIVIL SITE PLAN			

SHEET INDEX - STRUCTURAL		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
S200	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		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
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			
AE351	INTERIOR DETAILS			
AE360	CEILING AND CONSTRUCTION DETAILS			
AE301	INTERIOR PARTIAL TYPES AND DETAILS			
AE302	OPENING SCHEDULE AND ELEVATIONS			
AE400	MOUNTING HEIGHTS			

SHEET INDEX - INTERIOR		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
AF101	FIRST FLOOR FINISH PLAN			
AF200	MATERIAL AND ROOM FINISH SCHEDULE			
FP101	BASEMENT FLOOR EQUIPMENT AND FURNITURE PLAN			
FP11-A	FIRST FLOOR FURNITURE PLAN AREA A			
FP11-B	FIRST FLOOR FURNITURE PLAN AREA B			
QHT1-A	FIRST FLOOR EQUIPMENT PLAN AREA A			
QHT1-B	FIRST FLOOR EQUIPMENT PLAN AREA B			

SHEET INDEX - MECHANICAL		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
M000	MECHANICAL TITLE SHEET			
MD101	BASEMENT HVAC DEMOLITION PLAN			
MH101	BASEMENT HVAC FLOOR PLAN			
MD111	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			
MH133	ATTIC FLOOR MECHANICAL DEMOLITION PLAN - PHASE 3			
MD134	ATTIC FLOOR MECHANICAL DEMOLITION PLAN - PHASE 4			
MH134	ATTIC FLOOR MECHANICAL PLAN - PHASE 4			
MDP101	BASEMENT PIPING DEMOLITION PLAN			
MDP111	BASEMENT PIPING PLAN			
MDP111	FIRST FLOOR PIPING DEMOLITION PLAN			
MDP111	FIRST FLOOR PIPING PLAN			
MH400	ENLARGED CHILLER ROOM			
MH401	ATTIC SECTIONS AND SCHEMATICS			
MH402	ATTIC SCHEMATIC - 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			
MH503	MECHANICAL SCHEDULES			
MH504	MECHANICAL ELECTRICAL SCHEDULES			
MH505	MECHANICAL ELECTRICAL SCHEDULES			
MH506	MECHANICAL ELECTRICAL SCHEDULES			

SHEET INDEX - FIRE PROTECTION		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
FP101	BASEMENT FIRE PROTECTION PLAN			
FP111	FIRST FLOOR FIRE PROTECTION PLAN			
FP131	ATTIC FLOOR FIRE PROTECTION PLANS			

SHEET INDEX - PLUMBING		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
PD101	BASEMENT PLUMBING DEMOLITION PLAN			
PD111	FIRST FLOOR PLUMBING DEMOLITION PLAN			
PD121	FIRST PLUMBING FLOOR PLAN			
PD131	SECOND PLUMBING FLOOR PLAN			
PD400	WASTE AND VENT RISER DIAGRAM			
PD401	DOMESTIC WATER RISER DIAGRAM			
PD500	PLUMBING DETAILS AND SCHEDULES			

SHEET INDEX - ELECTRICAL		SD ISSUE	DD ISSUE	CD ISSUE
SHEET NO.	SHEET TITLE			
E000	ELECTRICAL TITLE SHEET			
EED131	ATTIC ELECTRICAL DEMOLITION PLAN			
ELD101	BASEMENT LIGHTING DEMOLITION PLAN			
ELD111	FIRST FLOOR LIGHTING DEMOLITION PLAN			
EP101	BASEMENT POWER DEMOLITION PLAN			
EP111	FIRST FLOOR POWER DEMOLITION PLAN			
ESD101	BASEMENT SYSTEMS DEMOLITION PLAN			
ESD111	FIRST FLOOR SYSTEMS DEMOLITION PLAN			
EL101	BASEMENT LIGHTING FLOOR PLAN			
EL111	FIRST LIGHTING FLOOR PLAN			
EP101	BASEMENT POWER FLOOR PLAN			
EP111	FIRST POWER FLOOR PLAN			
ES101	BASEMENT SYSTEMS FLOOR PLAN			
ES111	FIRST 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 AND ENCAPSULATED 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:
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SAINT CLOUD, MN 55303
BUILDING # 3
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EMAIL: MICHAEL.ENGMARK@VA.GOV

MECH/PLUMB/FIRE ENGINEER:
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ADDRESS: 50 SOUTH SIXTH STREET / SUITE 1100
MINNEAPOLIS, MN 55402-1540
CONTACT: JASON GOTTWALT
PHONE: 612-465-7273 FAX: 612-465-7073
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STRUCTURAL ENGINEER:
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EDINA, MN 55439
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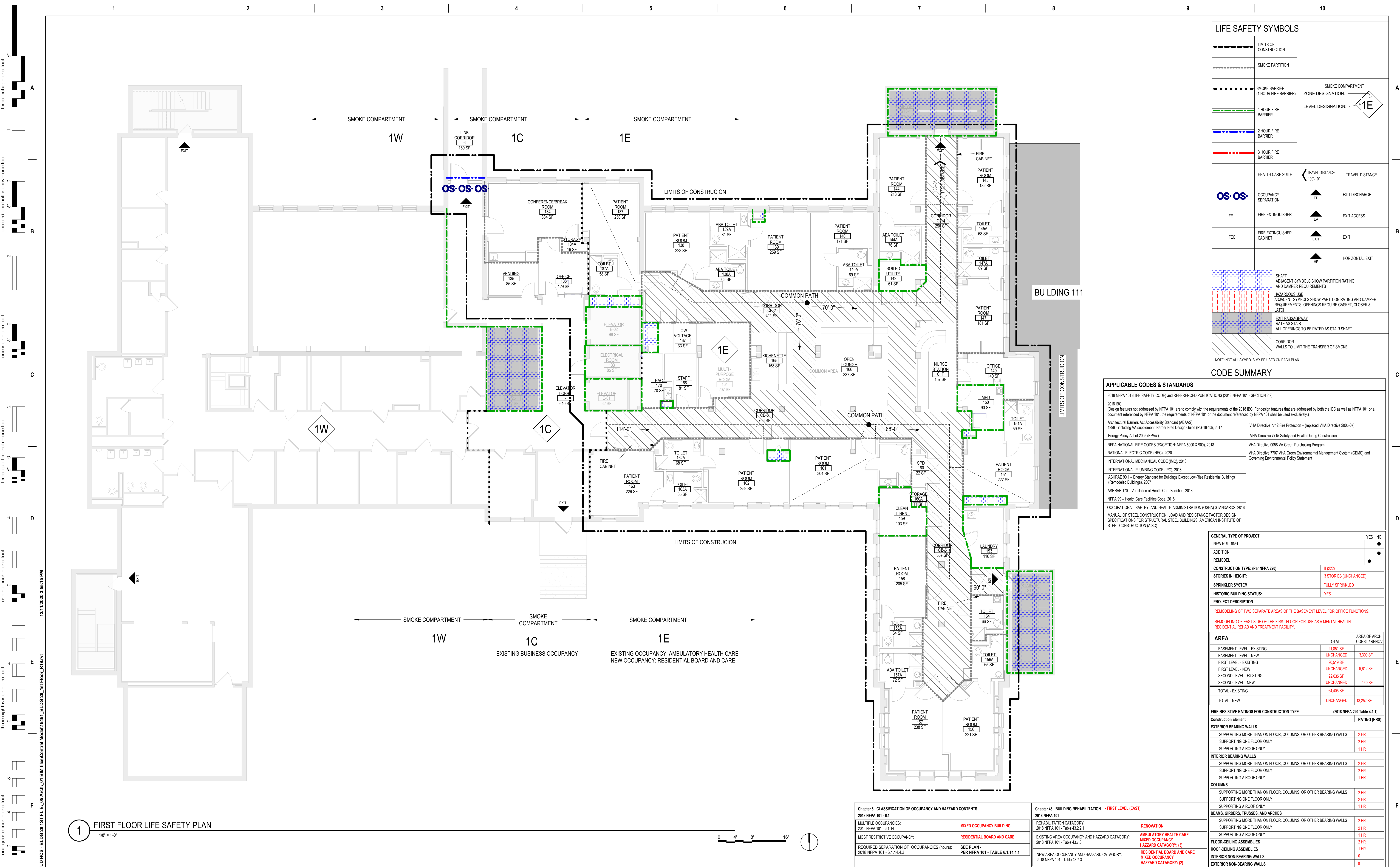
ARCHITECT:
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PLYMOUTH, MN 55441
CONTACT: STEVE SCHLOTTHAUER
PHONE: (763) 412-4000 OR (763) 412-4054
EMAIL: SSSCHLOTTHAUER@AE-MN.COM

ELECTRICAL ENGINEER:
NAME: DUNHAM ASSOCIATES INC
ADDRESS: 50 SOUTH SIXTH STREET / SUITE 1100
MINNEAPOLIS, MN 55402-1540
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CONSULTANT DUNHAM 50 South Sixth Street / Suite 1100 Minneapolis, Minnesota 55402-1540 phone 612.465.7150 fax 612.465.7551 web dunhameng.com mechanical + electrical consulting engineering	ARCHITECT/ENGINEER OF RECORD 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	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 Architect under the laws of the State of Minnesota. Signature: Date: 5/22/2020 license# 42138	APPROVED PROJECT COR: _____ DATE: _____ APPROVED SERVICE LINE DIRECTOR: _____ DATE: _____ APPROVED GENS COORDINATOR: _____ DATE: _____ APPROVED PROJECTS SECTION MANAGER: _____ DATE: _____ APPROVED DIRECTOR FAS: _____ DATE: _____	APPROVED INFECTOR CONTROL: _____ DATE: _____ APPROVED PATROL SAFETY: _____ DATE: _____ APPROVED CHIEF OF POLICE: _____ DATE: _____ APPROVED SAFETY MANAGER: _____ 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 RRTP DATE: _____ PLOT SCALE: PROJECT NO: 656-19-306 BUILDING NO: 28 PREPARED BY: SS DESIGN: MP/CD DRAWING NO: G1000 LOCATION: VA MEDICAL CENTER SAINT CLOUD, MN. COVER	 U.S. Department of Veterans Affairs Veterans Health Administration St. Cloud VA Health Care System

ARCHITECTURAL ABBREVIATIONS

A/C	AIR CONDITION	CNR	CORNER	F	FAHRENHEIT OR FEMALE	HST	HOIST	N	NORTH	RCP	REMOTE CONTROL	T	TREAD OR THERMOSTAT
A/C UNIT	AIR CONDITIONING UNIT	CNTR	COUNTER	FA	FIRE ALARM	HSS	HOLLOW STRUCTURAL STEEL	NA	NOT APPLICABLE	RCP	REFLECTED CEILING PLAN	T&M	TIME AND MATERIALS
A/E	ARCHITECT/ENGINEER	CRTP	COUNTERTOP	FAB	FABRIC	HT	HEIGHT	NAT	NATURAL	RCV/R	RECEIVED	TB	TOWEL BAR
AAMA	AMERICAN ARCHITECTURAL MANUFACTURERS ASSN	CO	CARBON MONOXIDE	FAC	FACTORY	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	NATL	NATIONAL	RD	ROAD OR ROOF DRAIN	TBD	TACK BOARD
AAP	ALARM ANNUNCIATOR PANEL	CO2	CARBON DIOXIDE	FACIL	FACILITY	HVY	HEAVY	NC	NOISE CRITERIA OR NURSE CALL	REC	RECESSED	TECH	TECHNICAL
AB	ANCHOR BOLT	COL	COLUMN	FAS	FASCIA	HW	HOT WATER	NC	NOISE CRITERIA OR NURSE CALL	RECD	RECEIVED	TEL	TELEPHONE
ABC	AGGREGATE BASE COURSE	COM	COMMON	FAS BD	FASCIA BOARD	HYD	HYDRANT	NCOMBL	NONCOMBUSTIBLE	RECTPT	RECEPTACLE	TEMP	TEMPERATURE OR TEMPORARY
ACI	AMERICAN CONCRETE INSTITUTE	COMB	COMBINATION, COMBINED	FAS UC	FAN COIL UNIT	HYDR	HYDRAULIC	NEC	NATIONAL ELECTRICAL CODE	RECT	RECTANGLE	THERM	THERMAL
ACT	ACOUSTICAL CEILING TILE	COMM	COMMUNICATION	FCO	FLOOR CLEANOUT	IAQ	INDOOR AIR QUALITY	NEG	NEGATIVE	REF	REFERENCE OR REFRIGERATOR	THK	THICKNESS
ACS DR	ACCESS DOOR	COMP	COMPONENT	FCTY	FACTORY	IBC	INTERNATIONAL BUILDING CODE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN	REFR	REFRACTORY, REFRIGERATION	THRES	THRESHOLD
ACS FLR	ACCESS FLOOR	CONC	CONCRETE	FD	FLOOR DRAIN	IC	INFECTION CONTROL	NEUT	NEUTRAL	REG	REGISTER	THRU	THROUGH
ACS PNL	ACCESS PANEL	CONC FLR	CONCRETE FLOOR	FDC	FIRE DEPARTMENT CONNECTION	ICW	INFECTION CONTROL WALL	NFC	NATIONAL FIRE CODE	REINF	REINFORCE	THRUOUT	THROUGHOUT
ACST	ACOUSTIC	COND	CONDENSER OR CONDITION	FDTN	FOUNDATION	ID	INSIDE DIAMETER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	REP	REPAIR	TMPD	TEMPERED
AD	AREA DRAIN	CONF	CONFERENCE	FE	FIRE EXTINGUISHER	ID NO	IDENTIFICATION NUMBER	NIC	NOT IN CONTRACT	REPL	REPLACE	TMPD GL	TEMPERED GLASS
ADA	AMERICANS WITH DISABILITIES ACT	CONN	CONNECT	FEC	FIRE EXTINGUISHER CABINET	ILLUM	ILLUMINATION	NO	NUMBER	REQ	REQUIRED	TN	TRUE NORTH
ADC	AUTOMATIC DOOR CLOSER	CONSTR	CONSTRUCTION	FF	FINISH FACE	INCL	INCLUDED	NOM	NOMINAL	REQD	REQUIRED	TO	TOP OF
ADDL	ADDITIONAL	CONT	CONTINUE	FF EL	FINISH FLOOR ELEVATION	IND	INDEPENDENT OR INDUSTRIAL	NRC	NOISE REDUCTION	RET	RETURN	TO FDN	TOP OF FOUNDATION
ADDN	ADDITION	CONTR	CONTRACTOR	FF&E	FURNITURE, FIXTURE, AND EQUIPMENT	INFO	INFORMATION	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION	REV	REVISION	TOB	TOP OF BEAM
ADH	ADHESIVE	COORD	COORDINATE	FHC	FIRE HOSE CABINET	INSUL	INSULATION	NRP	NONREMOVABLE	RFG	ROOFING	TOM	TOP OF MASONRY
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE	CORR	CORRIDOR	FHP	FULL HEIGHT PARTITION	INT	INTERIOR	NS	NARROW STYLE	RFI	REQUEST FOR INFORMATION	TOP	TOP OF PARAPET
ADMIN	ADMINISTRATION	CPM	CRITICAL PATH METHOD	FIG	FIGURE	INTL	INTERNATIONAL	NUM	NUMERAL	RFP	REQUEST FOR PROPOSAL	TOS	TOP OF STEEL
AFG	ABOVE FINISHED FLOOR	CPRS	COMPRESSIBLE	FIL	FILLET	INH	INSTANTANEOUS WATER HEATER	O/O	OUT TO OUT	RFS	ROOM FINISH SCHEDULE	TOW	TOP OF WALL
AFG	ABOVE FINISHED GRADE	CR	CARD READER	FIN	FINISH	JAN	JANITOR	O	OXYGEN	RL	ROOF LEADER	TPD	TOILET PAPER DISPENSER
AFS	ABOVE FINISHED SLAB	CRS	COLD ROLLED STEEL	FIN FLR	FINISH FLOOR	KD	KILN DRIED OR KNOCKED DOWN	OA	OUTSIDE AIR OR OVERALL	RLG	RAILING	TRANS	TRANSOM
AGC	ASSOCIATED GENERAL CONTRACTORS	CRSI	CONCRETE REINFORCING STEEL INSTITUTE	FIN GR	FINISH GRADE	KIT	KITCHEN	OC	ON CENTER	RM	ROOM	TRTD	TREATED
AGGR	AGGREGATE	CSB	CONCRETE SPLASH BLOCK	FIN WD	FINISH WINDOW	KO	KNOCKOUT	OCC	OCCUPY	RM LT	NURSE CALL LIGHT/ROOM LIGHT	TS	TUBE STEEL
AHJ	AUTHORITY HAVING JURISDICTION	CSG	CASING	FLR FIN	FLOOR FINISH	KPL	KICKPLATE	OCT	OCTAGON	RND	ROUND	TSTAT	THERMOSTAT
AHR	ANCHOR	CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	FLR SK	FLOOR SINK	L	ANGLE	OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION	RO	ROUGH OPENING	TYP	TYPICAL
AHU	AIR HANDLING UNIT	CSK	COUNTER SUNK	FLR SK	FLOOR SINK	LAB	LABORATORY	OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION	RS	ROUGH SAWN	UC	HEAT TRANSFER COEFFICIENT
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CSMT	CASEMENT	FLR SK	FLOOR SINK	LAD	LADDER	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED	RSV	RESILIENT SHEET VINYL	U	UNDERCUT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CSWK	CASEWORK	FLR SK	FLOOR SINK	LAM	LAMINATE	OFD	OVERFLOW DRAIN	RT	RIGHT	UGND	UNDERGROUND
ALT	ALTERNATE	CTG	COATING	FLR SK	FLOOR SINK	LAM GL	LAMINATED GLASS	OFF	OFFICE	RV	ROOF VENT	UL	UNDERWRITERS LABORATORIES
ALT NO	ALTERNATE NUMBER	CTR	CENTER	FLR SK	FLOOR SINK	LAU	LAUNDRY	OFFO	OWNER FURNISHED/OWNER INSTALLED	RVS	REVERSE	ULT	ULTIMATE
ALUM	ALUMINUM	CTV	CABLE TELEVISION	FLR SK	FLOOR SINK	LAV	LAVATORY	OH DR	OVERHEAD (COLING) DOOR	RWL	RAIN WATER LEADER	UNFIN	UNFINISH
AMT	AMOUNT	CU FT	CUBIC FEET	FLR SK	FLOOR SINK	LBR	LUMBER	OPH	OPPOSITE HAND	S	SOLID SURFACE	UNO	UNLESS NOTED OTHERWISE
ANOD	ANODIZE	CU IN	CUBIC INCH	FLR SK	FLOOR SINK	LBS	POUND	OPNG	OPENING	SA	SUPPLY AIR	UPS	UNINTERRUPTIBLE POWER SUPPLY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CU YD	CUBIC YARD	FLR SK	FLOOR SINK	LCS	LOCKABLE CHARTING STATION/MED CABINET	OPP	OPPOSITE	SALV	SALVAGE	UR	URINAL
ANT	ANTENNA	DCS	DIAPHER CHANGING STATION	FLR SK	FLOOR SINK	LD BRG	LOAD-BEARING	OPR	OPERABLE	SAMP	SAMPLE	UTIL	UTILITY
AP	ACCESS PANEL	DBL	DOUBLE	FLR SK	FLOOR SINK	LED	LEAD	OR	OPTIONAL	SAN	SANITARY	UV	ULTRAVIOLET
APA	AMERICAN PLYWOOD ASSOCIATION	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LF	LINEAR FEET (FOOT)	OR	OPERATING ROOM OR OUTSIDE RADIUS	SB	SPLASH BLOCK	VAC	VACUUM
APC	ARCHITECTURAL PRECAST CONCRETE	DCS	DIAPHER CHANGING STATION	FLR SK	FLOOR SINK	LIB	LIBRARY	ORD	ORDNANCE OR OVERFLOW ROOF DRAIN	SBS	STYRENE BUTADIENE STYRENE	VAR	VARIABLE
APPD	APPROVED	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LIN	LINEAR	ORG	ORGANIC	SBSTR	SUBSTRATE	VEH	VEHICLE
APPROX	APPROXIMATE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LIQ	LIQUID	ORIG	ORIGINAL	SC	SHARPS CONTAINER	VENT	VENTILATION
AR	AS REQUIRED	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LKR	LOCKER	ORNA	ORNAMENTAL	SCH	SCHOOL	VERT	VERTICAL
ARCH	ARCHITECT	DCS	DIAPHER CHANGING STATION	FLR SK	FLOOR SINK	LKR RM	LOCKER ROOM	OSH	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	SCH	SCHOOL	VEST	VESTIBULE
ASB	ASBESTOS	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LD	LEAD LINE	OUT	OUTLET	SCHEM	SCHEMATIC	VFD	VARIABLE FREQUENCY DRIVE
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LMS	LIMESTONE	OUT	OUTLET	SCP	SCUPPER	VIC	VICINITY
ASKLR	AUTOMATIC SPRINKLER	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LMST	LIMESTONE	OZ	OUNCE	SCRN	SCREEN	VID	VIDEO
ASPH	ASPHALT	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	P	PAINT	SCT	SHOWER CURTAIN TRACK	VIF	VERIFY IN FIELD
ASSN	ASSOCIATION	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PAR	PARALLEL OR PARAPET	SCWD	SOLID CORE WOOD DOOR	VNR	VENEER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PART	PARTIAL	SD	SMOKE DETECTOR/SOAP DISPENSER	VOC	VOLATILE ORGANIC COMPOUND
ATCH	ATTACHMENT	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PART	PARTIAL	SDG	SIDING	VOL	VOLUME
ATM	AUTOMATIC TELLER MACHINE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PATN	PATTERN	SECT	SECTION	VR	VAPOR RETARDER
AUTO	AUTOMATIC	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PB	PUSHBUTTON	SECT	SECTION	VTR	VENT THROUGH ROOF
AUX	AUXILIARY	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PBD	PARTICLEBOARD	SEL	SELECT	W	WITH
AV	AUDIO VISUAL	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PIECE, POLYCARBONATE OR PORTLAND CEMENT	SEP	SEPARATE	W/O	WITHOUT
AVG	AVERAGE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PCA	PORTLAND CEMENT ASSOCIATION	SF	SQUARE FOOT (FEET)	WBL	WOOD BLOCKING
AW	ACID WASTE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SFTWD	SOFTWOOD	WC	WATER CLOSET
AWPA	AMERICAN WOOD PRESERVERS' ASSOCIATION	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WD	WOOD
AWS	AMERICAN WELDING SOCIETY	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WDF	WINDOW
B PL	BASE PLATE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WF	WIDE FLANGE
BAT	BATTEN	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WFR	WOOD FRAME
BD	BOARD	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WFS	WOOD FURRING STRIPS
BD FT	BOARD FEET (FOOT)	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WH	WATER HEATER
BEV	BEVEL	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WHT	WATER HEATER
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WHSE	WAREHOUSE
BI FLD DR	BIFOLDING DOORS	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WP	WATERPROOFING
BITUM	BITUMINOUS	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WPM	WATERPROOF MEMBRANE
BKG	BACKING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WR	WEATHER RESISTANT
BLD	BUILD	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WS	WEATHERSTRIP OR WALL SCONCE
BLDG	BUILDING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WST	WEATHERSTRIP OR WALL SCONCE
BM	BEAM OR BENCHMARK	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	WT	WEIGHT OR WINDOW TREATMENT
BOT	BOTTOM	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	X BRACE	CROSS BRACE
BRCC	BRACING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	XPS	EXTRUDED POLYSTYRENE BOARD
BRDG	BRIDGING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR	YD	YARD
BRDG JST	BRIDGING JOIST	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
BRG	BEARING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
BRG PL	BEARING PLATE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
BRKT	BRACKET	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
BRZ	BRONZE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
BSMT	BASEMENT	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
BTWN	BETWEEN	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
BUR	BUILT-UP ROOFING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
C CONC	CAST CONCRETE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
C TO C	CENTER TO CENTER	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CAB	CABINET	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CAC	CEILING ATTENUATION CLASS	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CB	CATCH BASIN OR CORNER BEAD	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CCB	CEMENTITIOUS (BACKER) BOARD	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CCD	CONSTRUCTION CHANGE DIRECTIVE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CCTV	CLOSED CIRCUIT TELEVISION	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
COW	COUNTERCLOCKWISE	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CEM	CEMENT	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CEM PLAS	CEMENT PLASTER	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CER	CERAMIC	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CF	CONTRACTOR FURNISHED	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CFLG	COUNTERFLASHING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRETE	SGD	SLIDING GLASS DOOR		
CFMF	COLD-FORMED METAL FRAMING	DBL GLZ	DOUBLE GLAZE	FLR SK	FLOOR SINK	LNG	LIGHTNING	PC	PRECAST CONCRE				



LIFE SAFETY SYMBOLS

	LIMITS OF CONSTRUCTION		
	SMOKE PARTITION		
	SMOKE BARRIER (1 HOUR FIRE BARRIER)	SMOKE COMPARTMENT	
	1 HOUR FIRE BARRIER	ZONE DESIGNATION:	
	2 HOUR FIRE BARRIER	LEVEL DESIGNATION:	
	3 HOUR FIRE BARRIER		
	HEALTH CARE SUITE	TRAVEL DISTANCE	TRAVEL DISTANCE
	OCCUPANCY SEPARATION	EXIT DISCHARGE	
	FIRE EXTINGUISHER	EXIT ACCESS	
	FIRE EXTINGUISHER CABINET	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 & LATCH	
	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

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 shall be used exclusively.)
Architectural Barriers Act Accessibility Standard (ABAAS), 1998 - including VA supplement, Barrier Free Design Guide (PG-18-13), 2017	VHA Directive 7112 Fire Protection - (replaced VHA Directive 2005-07)
Energy Policy Act of 2005 (EPAct)	VHA Directive 7712 Safety and Health During Construction
NFPA NATIONAL FIRE CODES (EXCEPT: NFPA 800 & 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		<input checked="" type="checkbox"/>
ADDITION		<input checked="" type="checkbox"/>
REMODEL		<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	20,515 SF	
FIRST LEVEL - NEW	UNCHANGED	5,812 SF
SECOND LEVEL - EXISTING	22,035 SF	
SECOND LEVEL - NEW	UNCHANGED	140 SF
TOTAL - EXISTING	84,402 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 ONE 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 ONE FLOOR, COLUMNS, OR OTHER BEARING WALLS	2 HR
SUPPORTING ONE FLOOR ONLY	2 HR
SUPPORTING A ROOF ONLY	1 HR
COLUMNS	
SUPPORTING MORE THAN ONE 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 ONE 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	Chapter 43: BUILDING REHABILITATION - FIRST LEVEL (EAST)
2018 NFPA 101 - 6.1	2018 NFPA 101
MULTIPLE OCCUPANCIES: 2018 NFPA 101 - 6.1.1.4	REHABILITATION CATEGORY: 2018 NFPA 101 - Table 43.2.1.1
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
MIXED OCCUPANCY BUILDING	RENOVATION
RESIDENTIAL BOARD AND CARE	AMBULATORY HEALTH CARE
SEE PLAN - PER NFPA 101 - TABLE 6.1.14.4.1	HAZARD CATEGORY: (2)
	RESIDENTIAL BOARD AND CARE
	MIXED OCCUPANCY
	HAZARD CATEGORY: (2)

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

Revision#	Description	Date:

CONSULTANT

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Anderson Engineering of Minnesota, LLC | Proj # 15451

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 Architect under the laws of the State of Minnesota.

Name: Steve Schottbauer
Signature:
Date: 5/22/2020 License# 42138

Project Title
RENOVATE BUILDING 28
FIRST FLOOR EAST RTTP

Location
SAINT CLOUD, MN

Phase
CONSTRUCTION DOCUMENTS

Drawing Title
FIRST LEVEL LIFE SAFETY PLAN

Issue Date
MAY 22, 2020

Checked
BB/SS

Drawn
MP/CD

Project Number
656-19-306

Building Number
28

Drawing Number
G1111

U.S. Department of Veterans Affairs

Veterans Health Administration

St. Cloud VA Health Care System

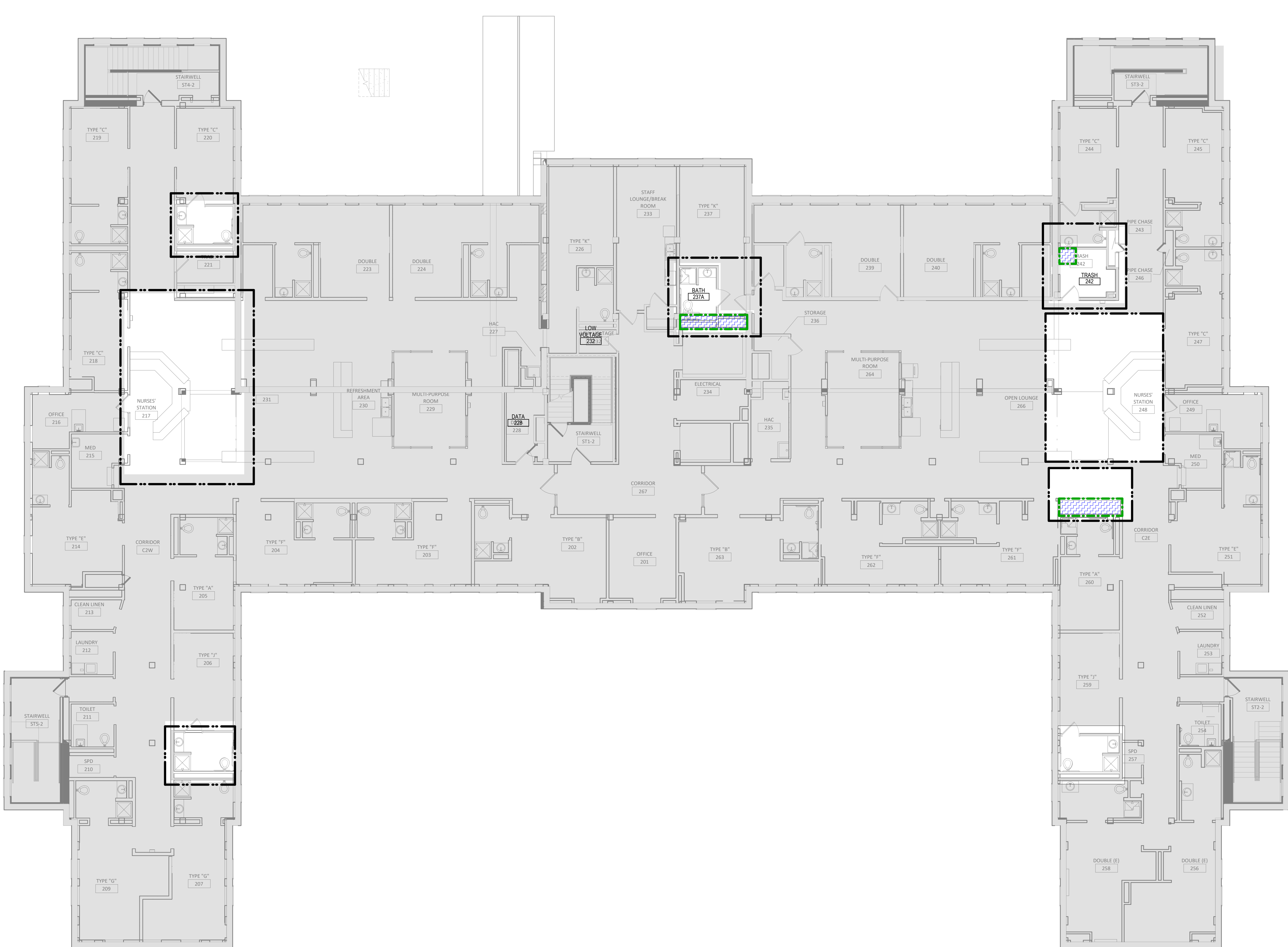
4

LIFE SAFETY SYMBOLS	
	LIMITS OF CONSTRUCTION
	SMOKE PARTITION
	SMOKE BARRIER (1 HOUR FIRE BARRIER)
	1 HOUR FIRE BARRIER
	2 HOUR FIRE BARRIER
	3 HOUR FIRE BARRIER
	HEALTH CARE SUITE
	OCCUPANCY SEPARATION
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET
	SHAFT 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
	CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE
	SMOKE COMPARTMENT ZONE DESIGNATION: LEVEL DESIGNATION: 1E
	TRAVEL DISTANCE: 100'-10"
	EXIT DISCHARGE
	EXIT ACCESS
	EXIT
	HORIZONTAL EXIT

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	VHA Directive 7712 Fire Protection - (replaces VHA Directive 2005-07)
Energy Policy Act of 2005 (EPAc)	VHA Directive 7715 Safety and Health During Construction
NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 5000 & 800), 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 (Retrofitted 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"/>
ADDITION			<input type="checkbox"/>
REMODEL			<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	64,435 SF		
TOTAL - NEW	UNCHANGED	13,232 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	

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



Chapter 6: CLASSIFICATION OF OCCUPANCY AND HAZARD CONTENTS 2018 NFPA 101 - 6.1 MULTIPLE OCCUPANCIES: 2018 NFPA 101 - 6.1.14 MOST RESTRICTIVE OCCUPANCY: 2018 NFPA 101 - 6.1.14.3 REQUIRED SEPARATION OF OCCUPANCIES (hours): 2018 NFPA 101 - 6.1.14.4.3	Chapter 43: BUILDING REHABILITATION 2018 NFPA 101 REHABILITATION CATEGORY: 2018 NFPA 101 - Table 43.2.1 EXISTING AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3 NEW AREA OCCUPANCY AND HAZARD CATEGORY: 2018 NFPA 101 - Table 43.7.3	MIXED OCCUPANCY BUILDING RESIDENTIAL BOARD AND CARE SEE PLAN - PER NFPA 101 - TABLE 1.1.14.4.1	RENOVATION
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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 I hereby certify that this plan, specifications, or report was prepared by me, or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Name: Steve Schottbauer Signature: Date: 5/22/2020 License# 42138	Project Title RENOVATE BUILDING 28 FIRST FLOOR EAST RTTP Location SAINT CLOUD, MN Phase CONSTRUCTION DOCUMENTS Drawing Title SECOND LEVEL LIFE SAFETY PLAN Issue Date MAY 22, 2020 Checked Drawn	Project Number 656-19-306 Building Number 28 Drawing Number G1121	 U.S. Department of Veterans Affairs Veterans Health Administration St. Cloud VA Health Care System
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Step One: Using the following table, identify the Type of Construction Project Activity (Type A-D)

Table with 4 columns: Type A, Type B, Type C, Type D. Each column lists specific construction activities such as 'removal of ceiling tiles for visual inspection', 'new wall construction', and 'HVAC system work'.

Step Two: Using the following table, identify the Patient Risk Groups that will be affected.

Table with 4 columns: Low Risk, Medium Risk, High Risk, Highest Risk. Each column lists patient groups like 'Outpatient Clinics', 'Office Staff', 'Laboratories', and 'Central Sterile Supply'.

Step Three: Match the Construction Project Type (A, B, C, D) on the following matrix...

IC Matrix - Class of Precautions: Construction Project by Patient Risk. A grid showing the intersection of Patient Risk Group and Construction Project Type, with color-coded cells indicating the required class of precautions.

Step 4. Identify the areas surrounding the project area, assessing potential impact

Table with 6 columns: Unit Below, Unit Above, Lateral, Behind, Front. A grid for identifying adjacent areas.

Step 5. Identify specific site of activity e.g., patient rooms, medication room, etc.

Step 6. Identify issues related to: ventilation, plumbing, electrical in terms of the occurrence of probable outages.

Step 7. Identify containment measures, using prior assessment. What types of barriers? (E.g., solids wall barriers; Will HEPA filtration be required?)

Step 8. Consider potential risk of water damage. Is there a risk due to compromising structural integrity? (e.g., wall, ceiling, roof)

Step 9. Work hours: Can or will the work be done during non-patient care hours?

Step 10. Do plans allow for adequate number of isolation/negative airflow rooms?

Step 11. Do the plans allow for the required number & type of handwashing sinks?

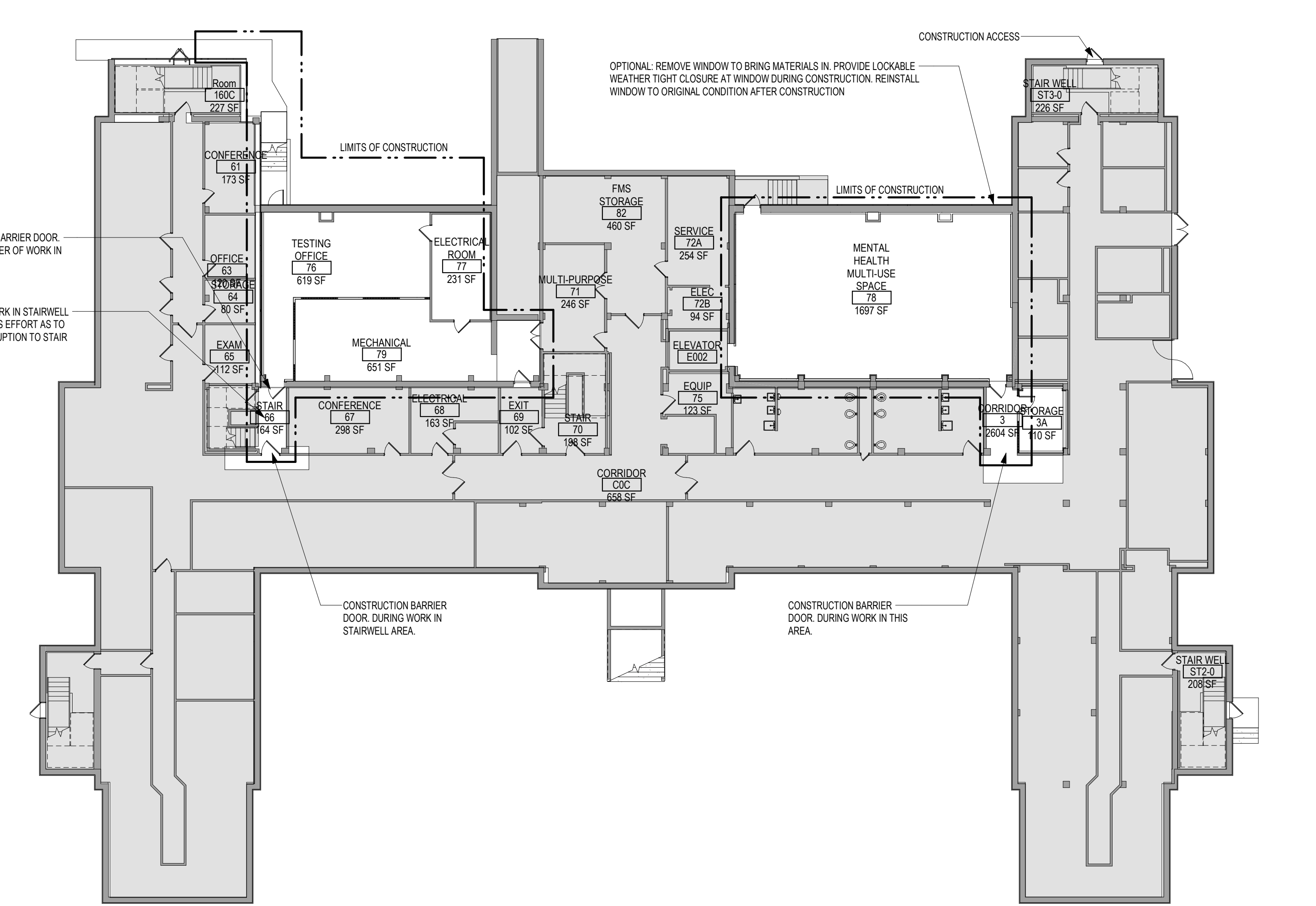
Step 12. Does the infection prevention & control staff agree with the minimum number of sinks for this project? (Verify against FGI Design and Control Guidelines for types and area)

Step 13. Does the infection prevention & control staff agree with the plans relative to clean and soiled utility rooms?

Step 14. Plan to discuss the following containment issues with the project team. (E.g., traffic flow, housekeeping, debris removal (how and when))

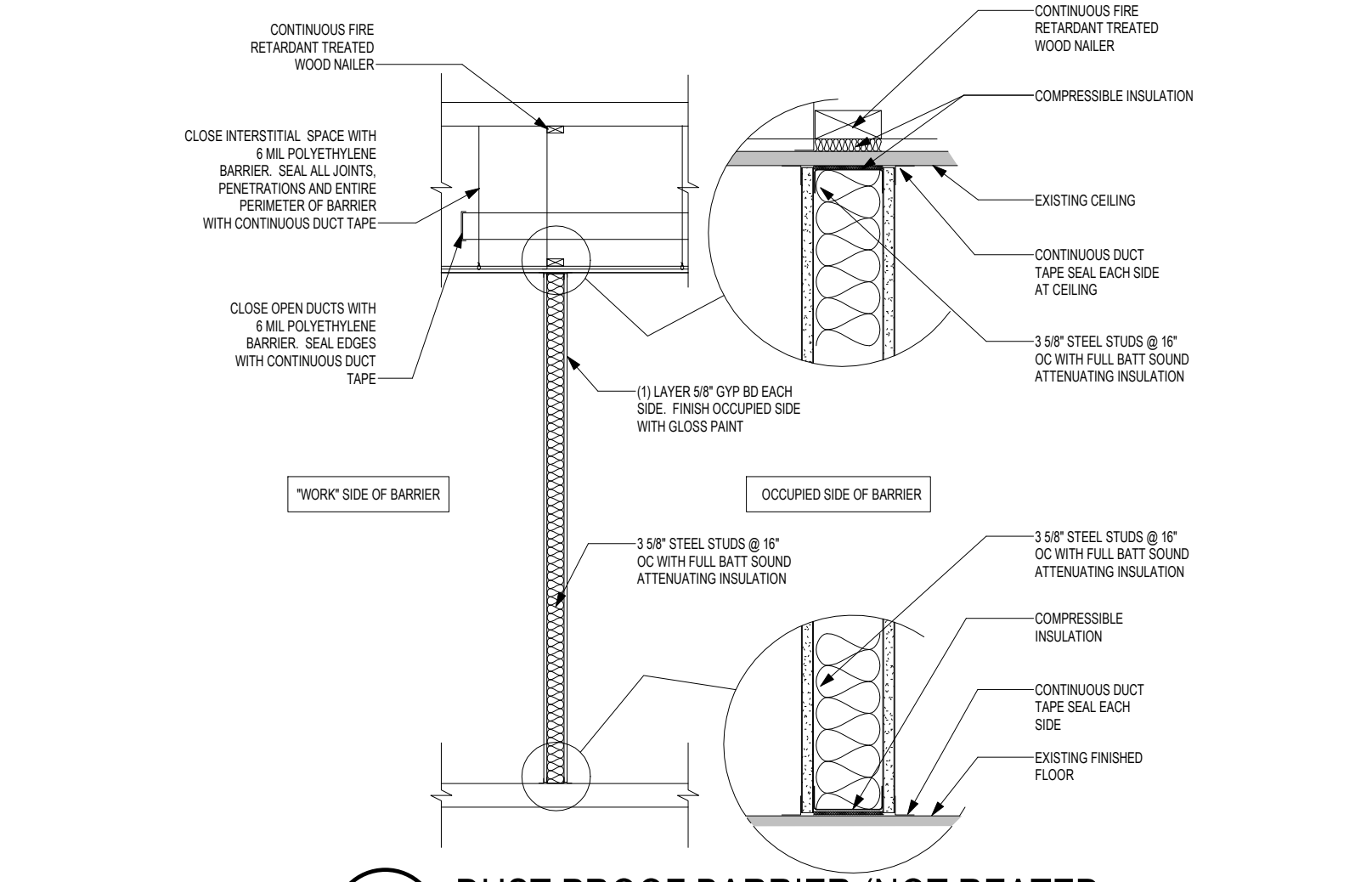
Description of Required Infection Control Precautions by Class

Table with 2 columns: During Construction Project, Upon Completion of Project. Lists 14 numbered items detailing required precautions such as 'Isolate HVAC system in areas where work is being done' and 'Clean work area upon completion of work'.



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

Infection Control Construction Permit form. Includes fields for Location of Construction, Project Start Date, Supervisor, and a detailed table of construction activities with checkboxes for compliance.



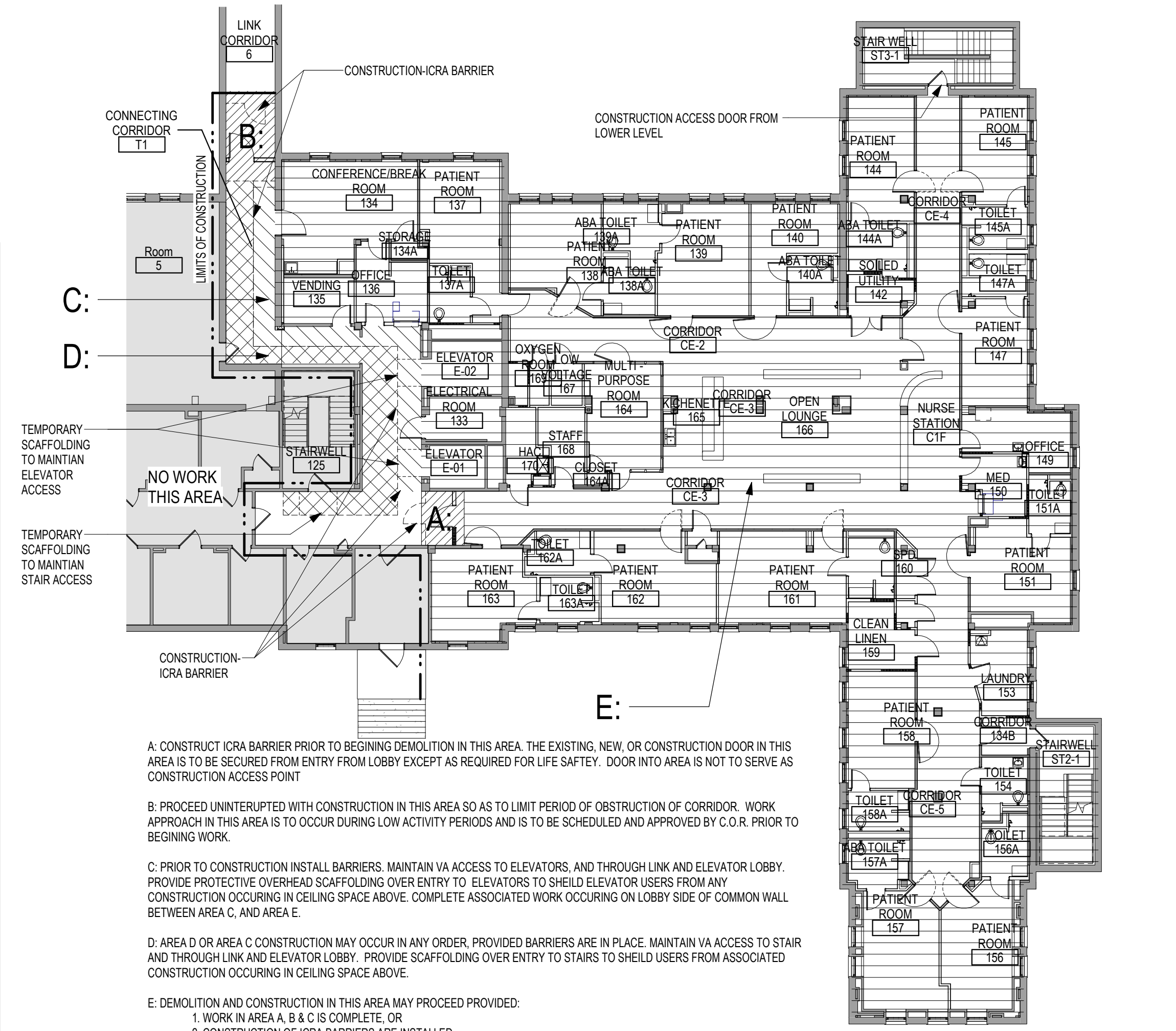
4 DUST PROOF BARRIER (NOT REATED) 1/2" = 1'-0"

CONSTRUCTION PHASING GENERAL NOTES

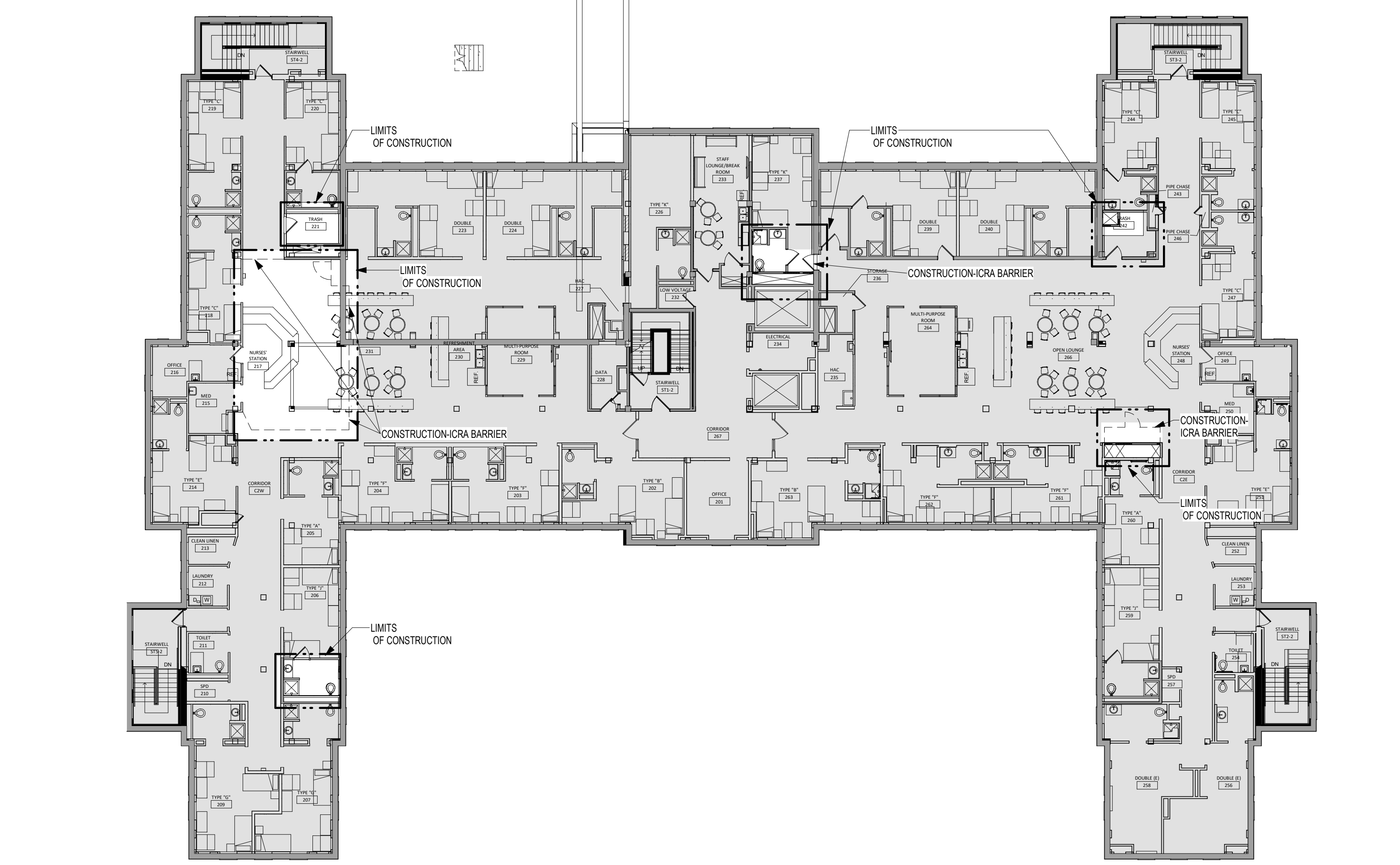
- 1. THE WORK UNDER THIS CONTRACT SHALL BE DIVIDED INTO PHASES...
2. THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING AND SEQUENCING WITH ALL TRADES AND THE OWNER...
3. THE GENERAL CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER SO WORK MAY BE CARRIED OUT SMOOTHLY...

INFECTION CONTROL & CONSTRUCTION BARRIER GENERAL NOTES

- 1. SEE SPEC SECTION 01 35 26 SAFETY REQUIREMENTS FOR ADDITIONAL INFORMATION
2. THE INTENT OF INFECTION CONTROL ISOLATION IS TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA...
3. PROVIDE NEGATIVE PRESSURE MONITORS DURING CONSTRUCTION OPERATIONS AS SPECIFIED...

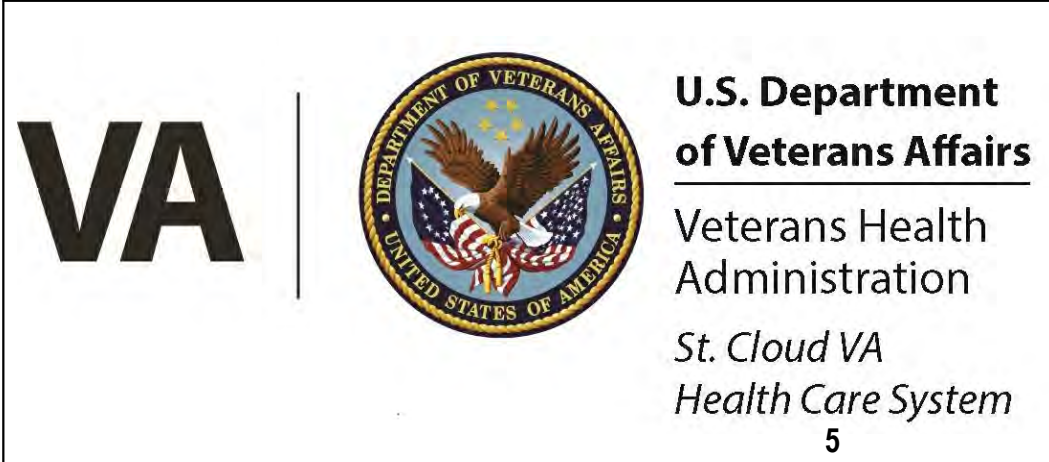


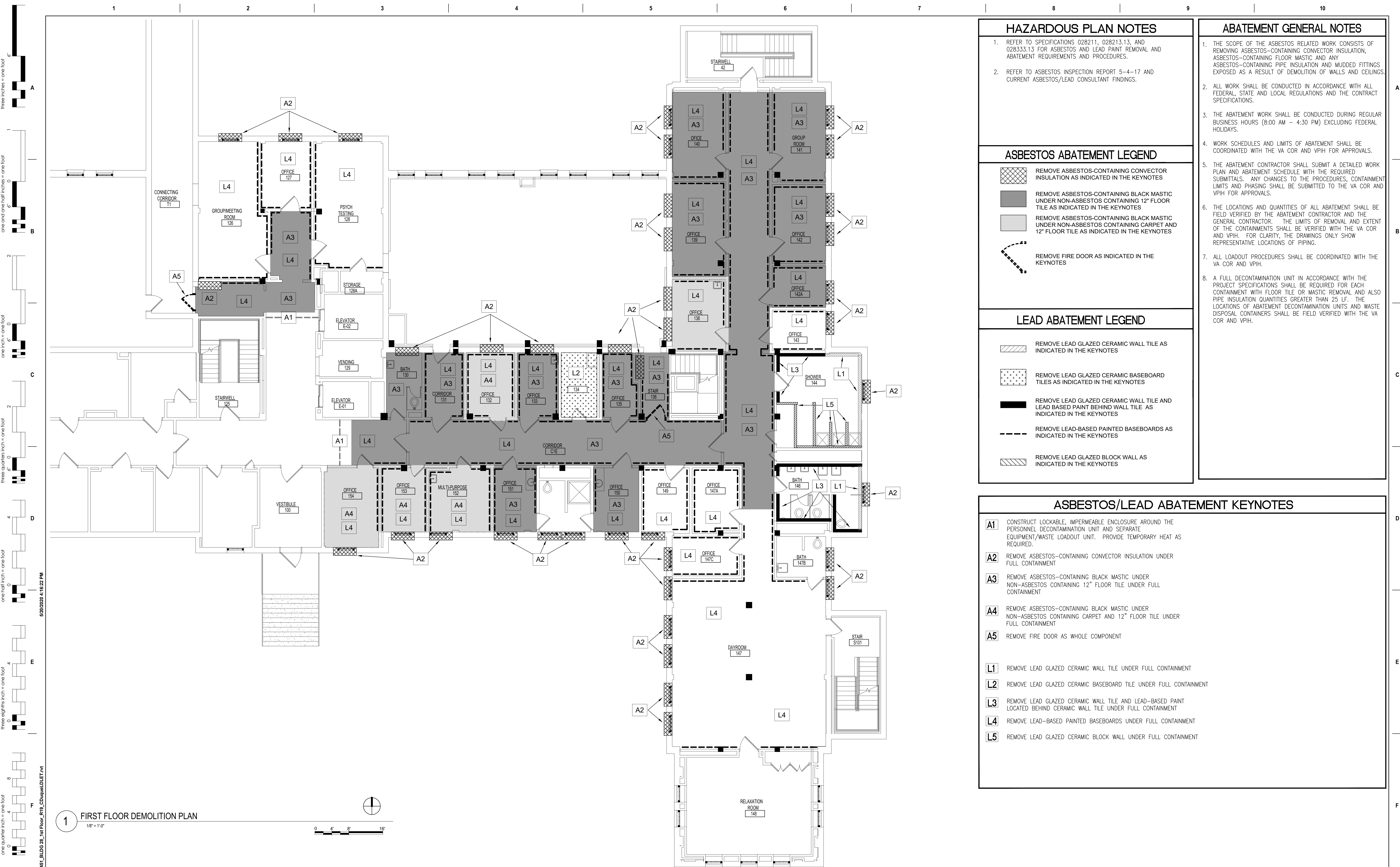
3 FIRST LEVEL ICRA, CONSTRUCTION BARRIER & PHASING PLAN 1/16" = 1'-0"



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

Project information block including Consultant (DUNHAM), Architect/Engineer of Record (ANDERSON), Project Title (RENOVATE BUILDING 28), Project Number (656-19-306), and drawing title (INFECTION CONTROL & PHASING PLANS).





HAZARDOUS PLAN NOTES

- REFER TO SPECIFICATIONS 028211, 028213.13, AND 028333.13 FOR ASBESTOS AND LEAD PAINT REMOVAL AND ABATEMENT REQUIREMENTS AND PROCEDURES.
- REFER TO ASBESTOS INSPECTION REPORT 5-4-17 AND CURRENT ASBESTOS/LEAD CONSULTANT FINDINGS.

ASBESTOS ABATEMENT LEGEND

- REMOVE ASBESTOS-CONTAINING CONVECTOR INSULATION AS INDICATED IN THE KEYNOTES
- REMOVE ASBESTOS-CONTAINING BLACK MASTIC UNDER NON-ASBESTOS CONTAINING 12\"/>

LEAD ABATEMENT LEGEND

- REMOVE LEAD GLAZED CERAMIC WALL TILE AS INDICATED IN THE KEYNOTES
- REMOVE LEAD GLAZED CERAMIC BASEBOARD TILES AS INDICATED IN THE KEYNOTES
- REMOVE LEAD GLAZED CERAMIC WALL TILE AND LEAD BASED PAINT BEHIND WALL TILE AS INDICATED IN THE KEYNOTES
- REMOVE LEAD-BASED PAINTED BASEBOARDS AS INDICATED IN THE KEYNOTES
- REMOVE LEAD GLAZED BLOCK WALL AS INDICATED IN THE KEYNOTES

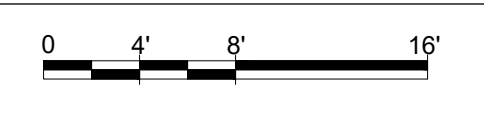
ASBESTOS/LEAD ABATEMENT KEYNOTES

- A1** CONSTRUCT LOCKABLE, IMPERMEABLE ENCLOSURE AROUND THE PERSONNEL DECONTAMINATION UNIT AND SEPARATE EQUIPMENT/WASTE LOADOUT UNIT. PROVIDE TEMPORARY HEAT AS REQUIRED.
- A2** REMOVE ASBESTOS-CONTAINING CONVECTOR INSULATION UNDER FULL CONTAINMENT
- A3** REMOVE ASBESTOS-CONTAINING BLACK MASTIC UNDER NON-ASBESTOS CONTAINING 12\"/>

ABATEMENT GENERAL NOTES

- THE SCOPE OF THE ASBESTOS RELATED WORK CONSISTS OF REMOVING ASBESTOS-CONTAINING CONVECTOR INSULATION, ASBESTOS-CONTAINING FLOOR MASTIC AND ANY ASBESTOS-CONTAINING PIPE INSULATION AND MUDDY FITTINGS EXPOSED AS A RESULT OF DEMOLITION OF WALLS AND CEILING.
- ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AND THE CONTRACT SPECIFICATIONS.
- THE ABATEMENT WORK SHALL BE CONDUCTED DURING REGULAR BUSINESS HOURS (8:00 AM - 4:30 PM) EXCLUDING FEDERAL HOLIDAYS.
- WORK SCHEDULES AND LIMITS OF ABATEMENT SHALL BE COORDINATED WITH THE VA COR AND VPIH FOR APPROVALS.
- THE ABATEMENT CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN AND ABATEMENT SCHEDULE WITH THE REQUIRED SUBMITTALS. ANY CHANGES TO THE PROCEDURES, CONTAINMENT LIMITS AND PHASING SHALL BE SUBMITTED TO THE VA COR AND VPIH FOR APPROVALS.
- THE LOCATIONS AND QUANTITIES OF ALL ABATEMENT SHALL BE FIELD VERIFIED BY THE ABATEMENT CONTRACTOR AND THE GENERAL CONTRACTOR. THE LIMITS OF REMOVAL AND EXTENT OF THE CONTAINMENTS SHALL BE VERIFIED WITH THE VA COR AND VPIH. FOR CLARITY, THE DRAWINGS ONLY SHOW REPRESENTATIVE LOCATIONS OF PIPING.
- ALL LOADOUT PROCEDURES SHALL BE COORDINATED WITH THE VA COR AND VPIH.
- A FULL DECONTAMINATION UNIT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS SHALL BE REQUIRED FOR EACH CONTAINMENT WITH FLOOR TILE OR MASTIC REMOVAL AND ALSO PIPE INSULATION QUANTITIES GREATER THAN 25 LF. THE LOCATIONS OF ABATEMENT DECONTAMINATION UNITS AND WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE VA COR AND VPIH.

1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



Revision#	Description	Date:

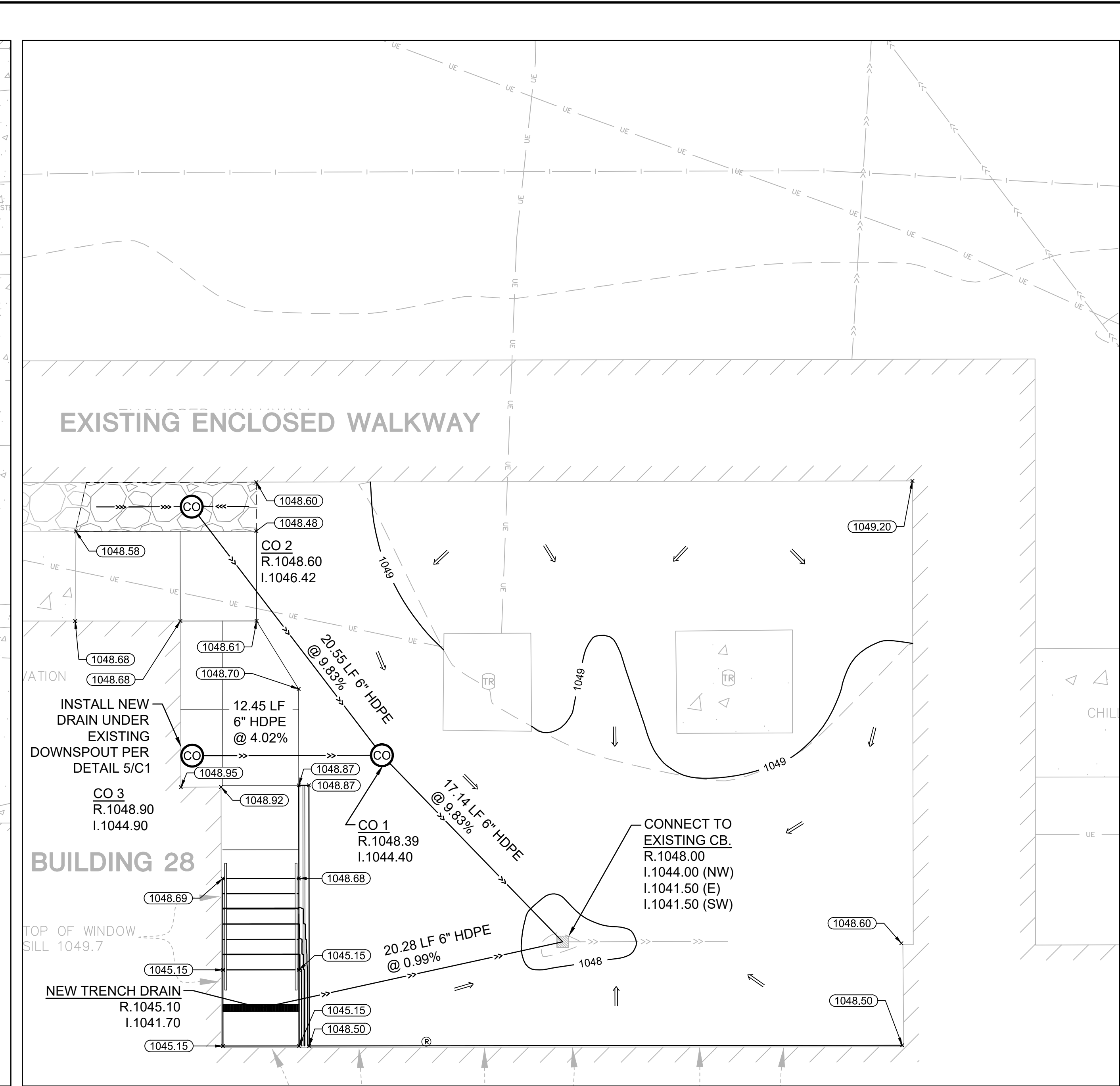
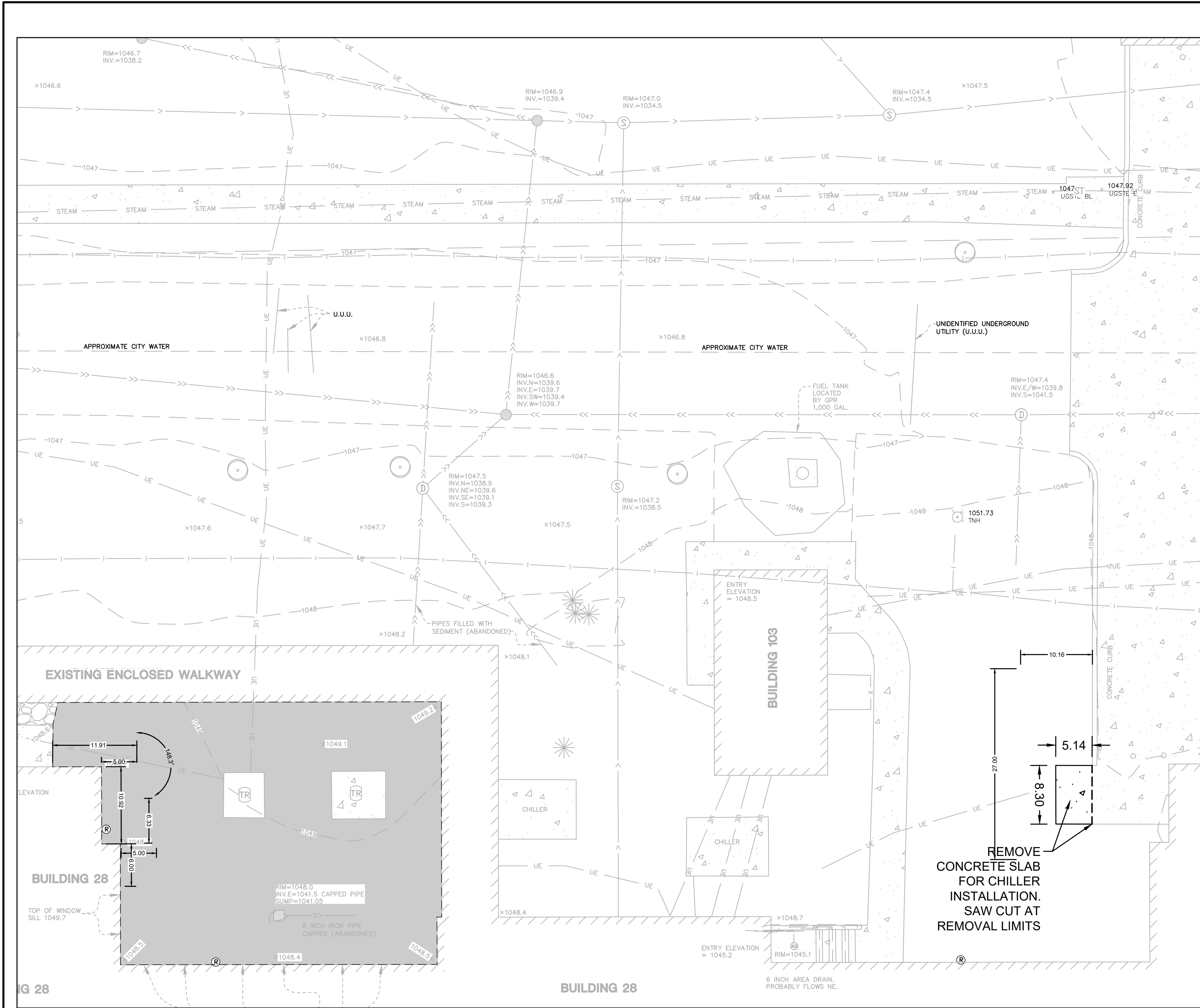
CONSULTANT

9201 West Broadway Brooklyn Park, MN 55445
Tel: 763.315.7900 Toll Free: 800.233.9513

<p>William Dold Name Signature AD2355 Adhesion Project Designer Accreditation Number</p>	<p>Collin Nelson Name Signature L37270 Lead Project Designer Accreditation Number</p>
<p>m ASBESTOS PROJECT CONSULTANT/DESIGNER State of Minnesota Division of Health Expires: 10/31/2020 William Dold 1520 Kennerly Ave Crown Rapids, MN 56433</p>	<p>m LEAD PROJECT DESIGNER State of Minnesota Department of Health Expires: 10/31/2020 Collin Nelson 4720 University Ln SE Maple Grove, MN 55314</p>

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 HA001
Drawing Title HAZARDOUS MATERIALS PLAN / ASBESTOS / LEAD		
Issue Date MAY 22, 2020	Checked	Drawn

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

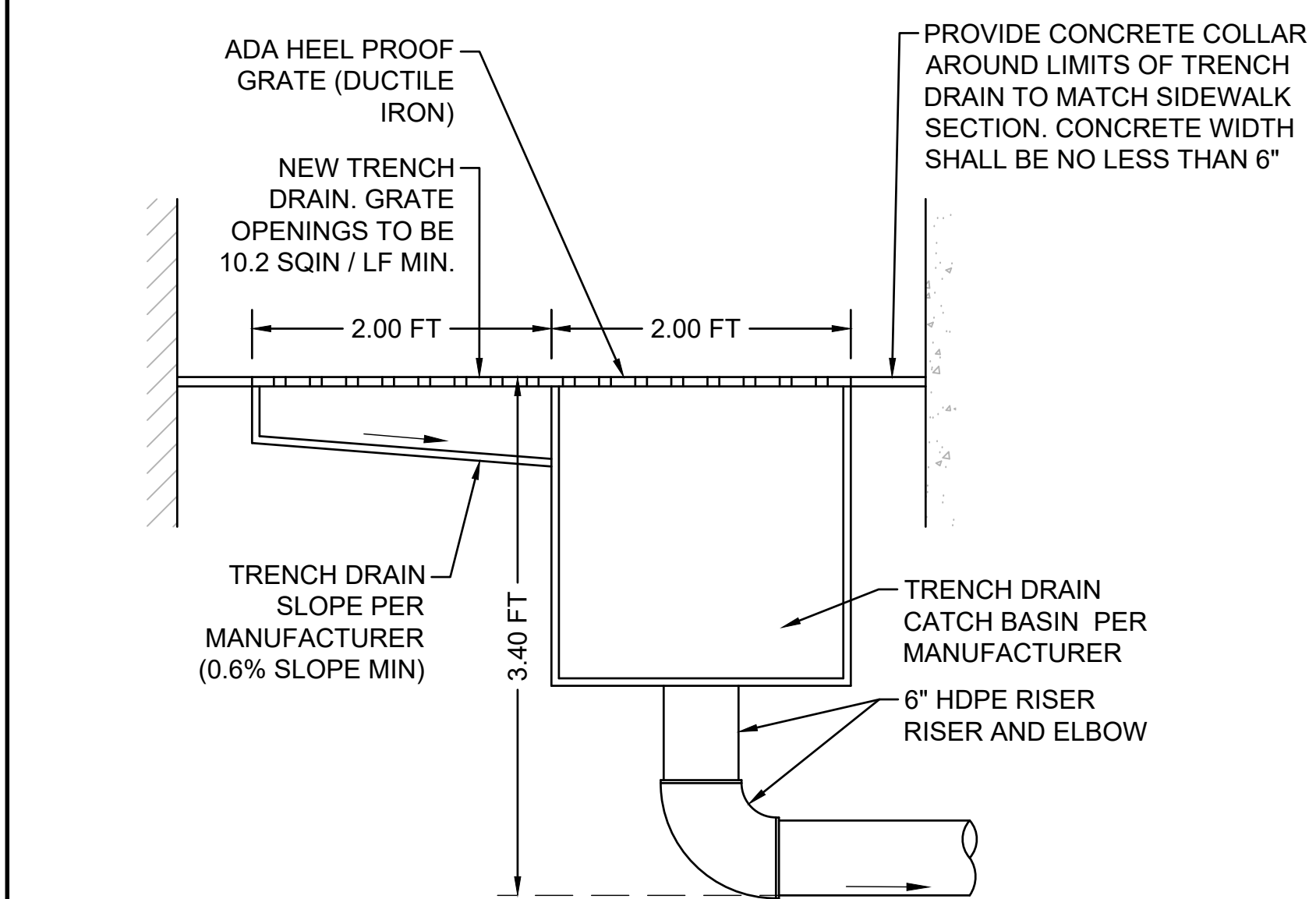


- LEGEND:**
- NEW UNDERDRAIN
 - NEW STORM SEWER
 - EXISTING CONTOUR
 - MINOR CONTOUR
 - MAJOR CONTOUR
 - SAWCUT LINE
 - FLOW ARROW
 - APPROXIMATE EXCAVATION / GRADING LIMITS
 - APPROXIMATE CONCRETE REMOVAL LIMITS
 - NEW ROCK MULCH TRENCH
 - NEW STORM SEWER CLEANOUT / ROOF DRAIN

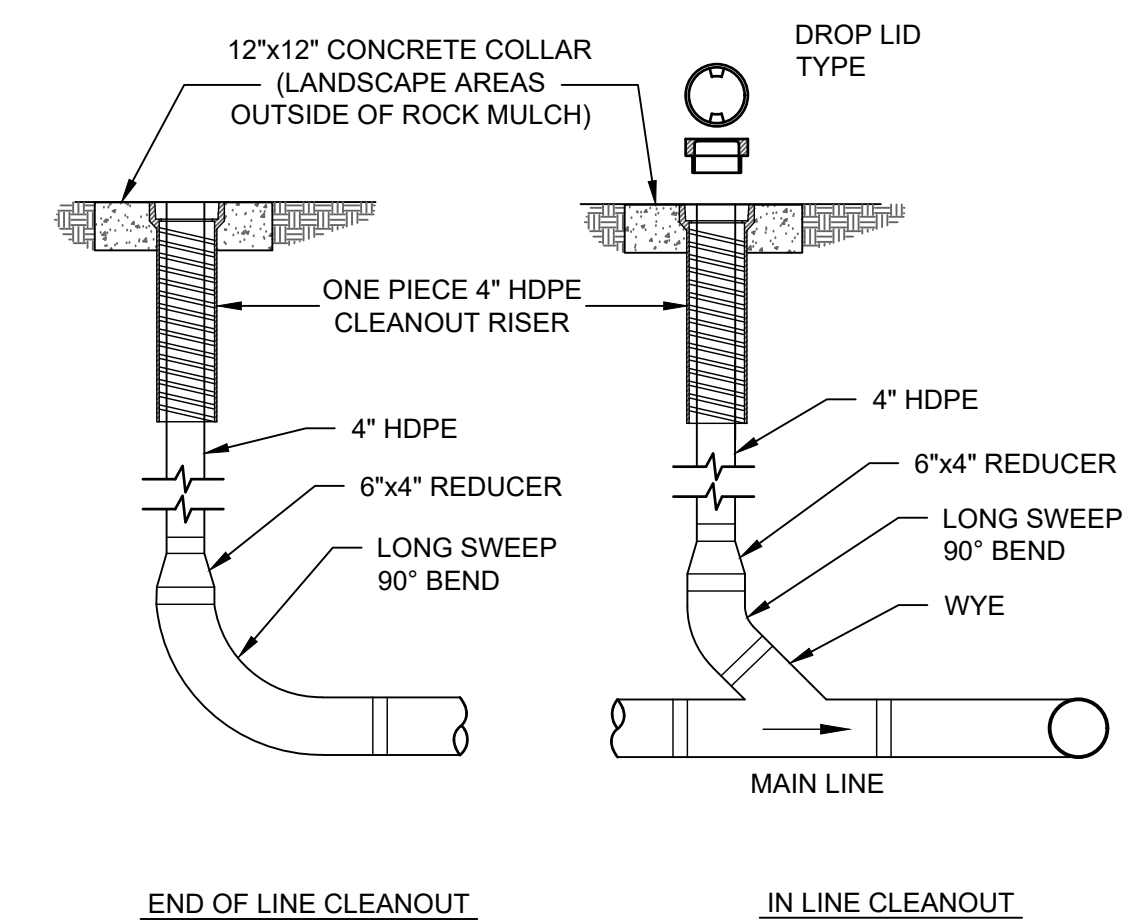
- GENERAL NOTES:**
1. UTILITY INFORMATION IS BASED ON A SURVEY PERFORMED BY ANDERSON ENGINEERING PERFORMED IN FEBRUARY 2020 AND INFORMATION SUPPLIED BY THE VA. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES AS NECESSARY TO COMPLETE WORK. CONTRACTOR TO HIRE A PRIVATE UTILITY LOCATOR. UTILITIES ON PLANS 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.
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 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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 13. SUBSTITUTIONS FROM INFO SHOWN HEREIN SHALL BE REVIEWED AND APPROVED BY THE COR.
 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")

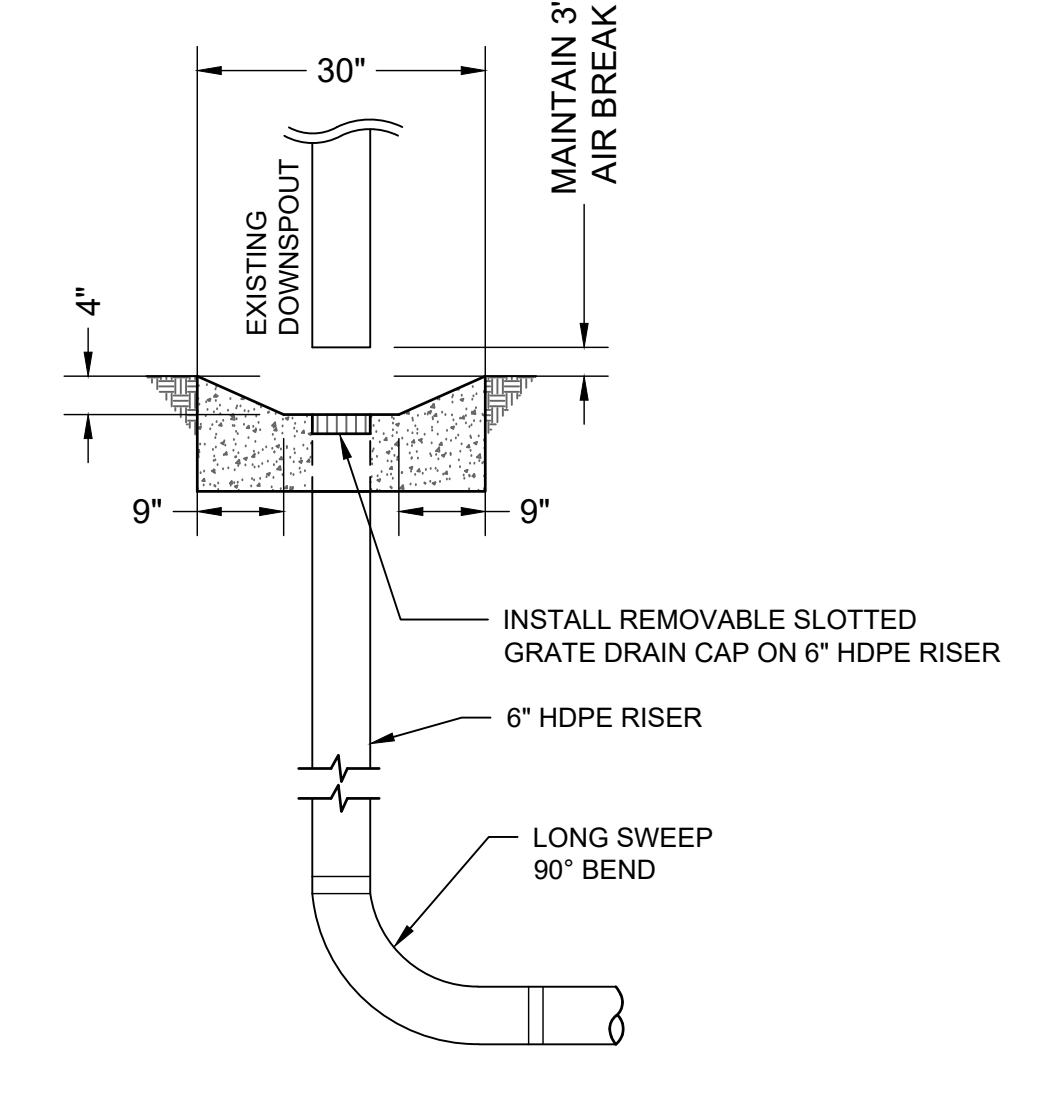
2 CORTYARD SITE GRADING AND UTILITY PLAN
SCALE: 1"=6' (30"x42")



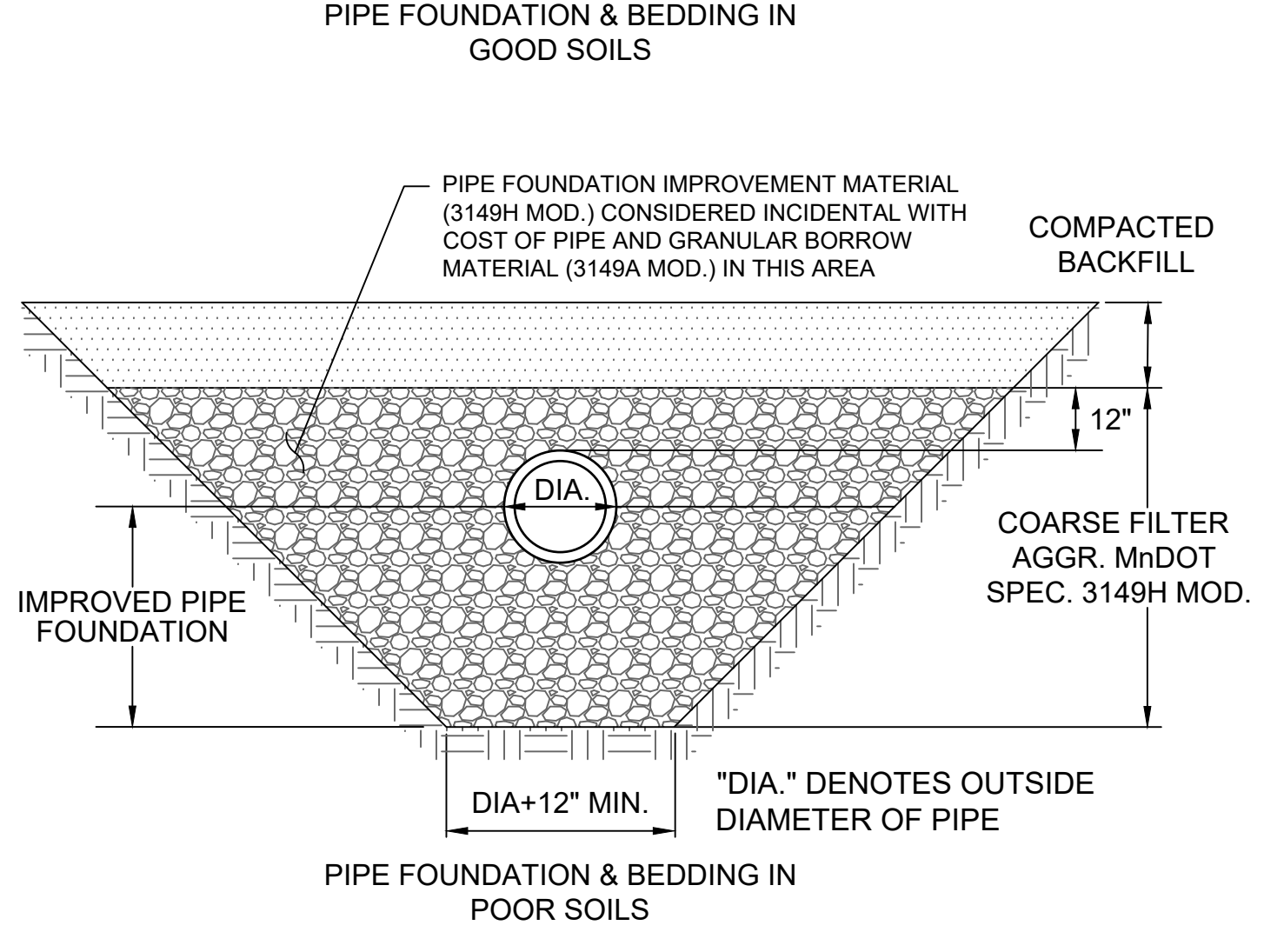
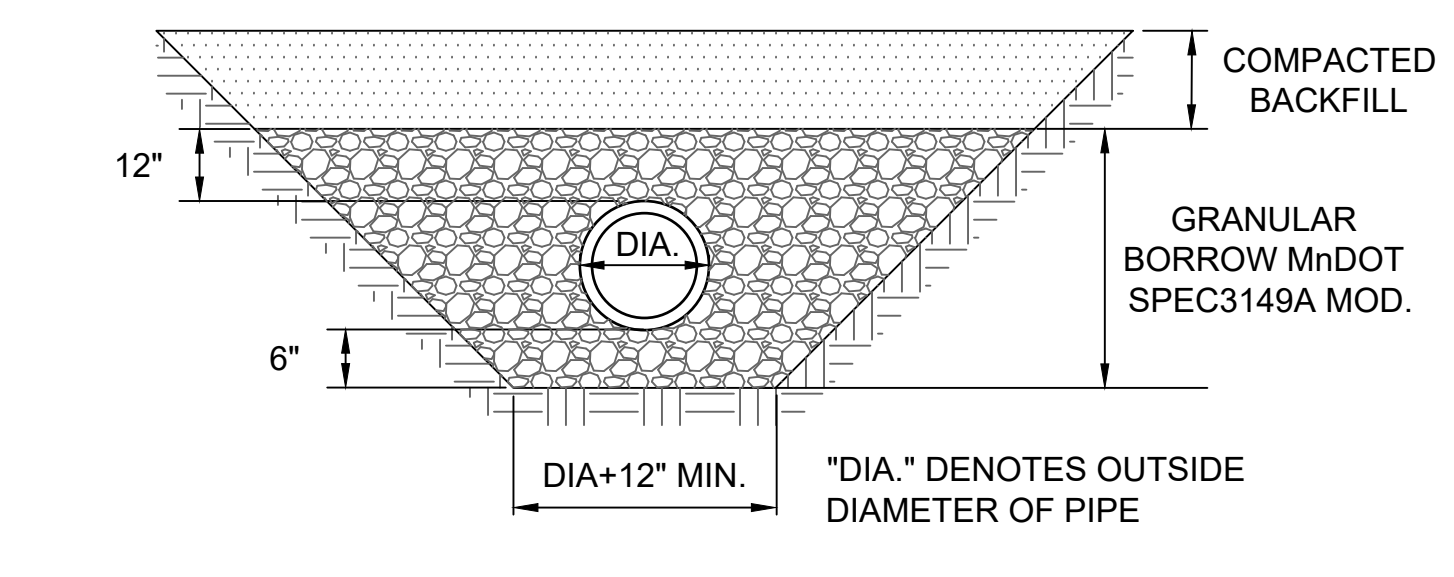
3 TRENCH DRAIN AT LANDING
SCALE: NTS



4 STORM DRAIN CLEANOUT
SCALE: NTS



5 STORM DRAIN AT EXISTING DOWNSPOUT
SCALE: NTS



6 PIPE BEDDING
SCALE: NTS

Revision#	Description	Date:

CONSULTANT

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Anderson Engineering of Minnesota, LLC | Proj # 15451

STAMP

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:
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
DEMOLITION, GRADING, AND UTILITY PLANS

Issue Date
MAY 22, 2020

Checked
LW

Drawn
LW

Project Number
656-19-306

Building Number
28

Drawing Number
CJ101

VA

U.S. Department of Veterans Affairs

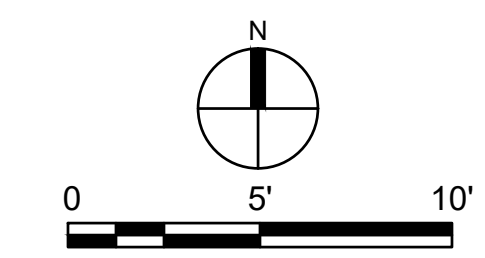
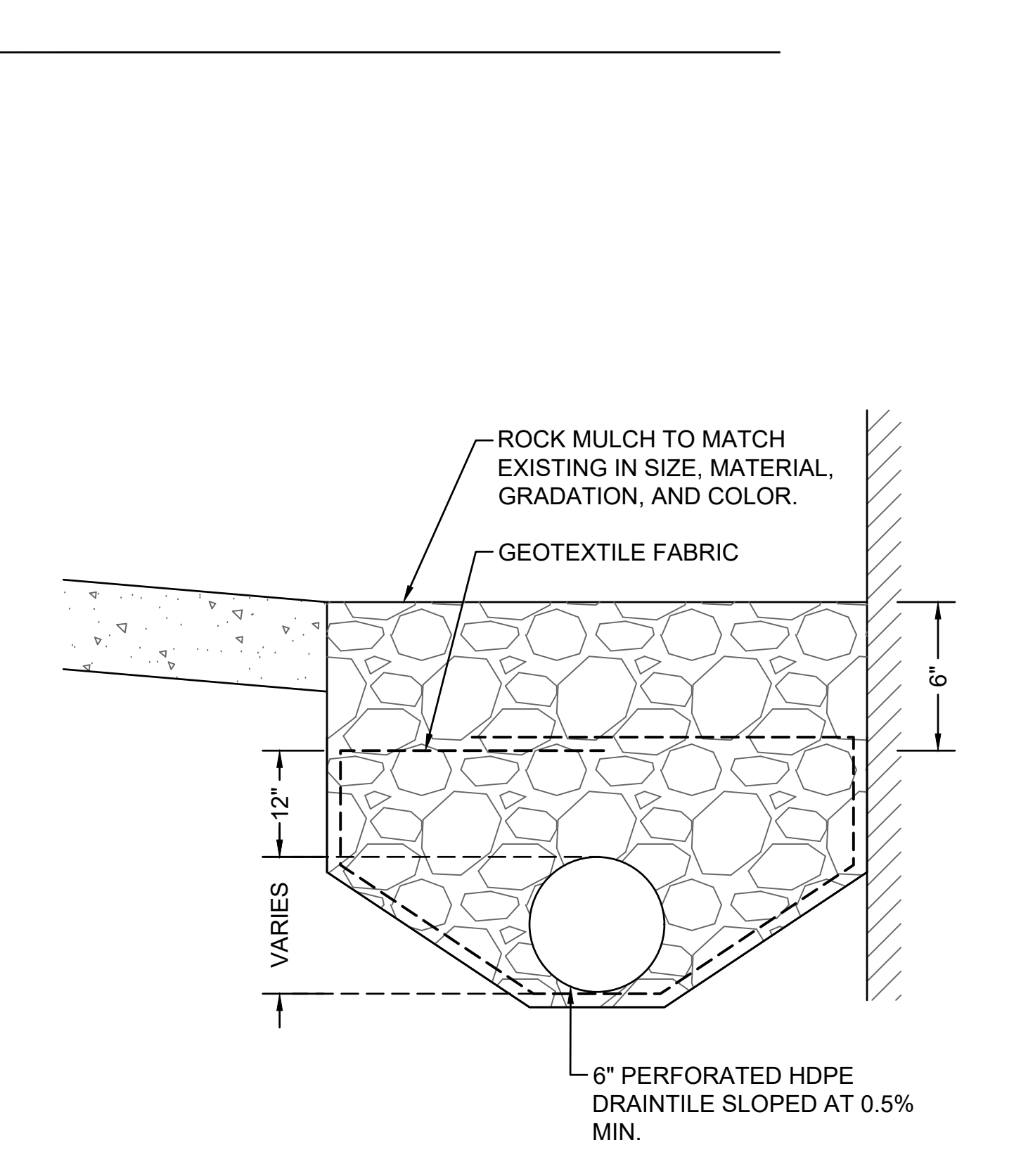
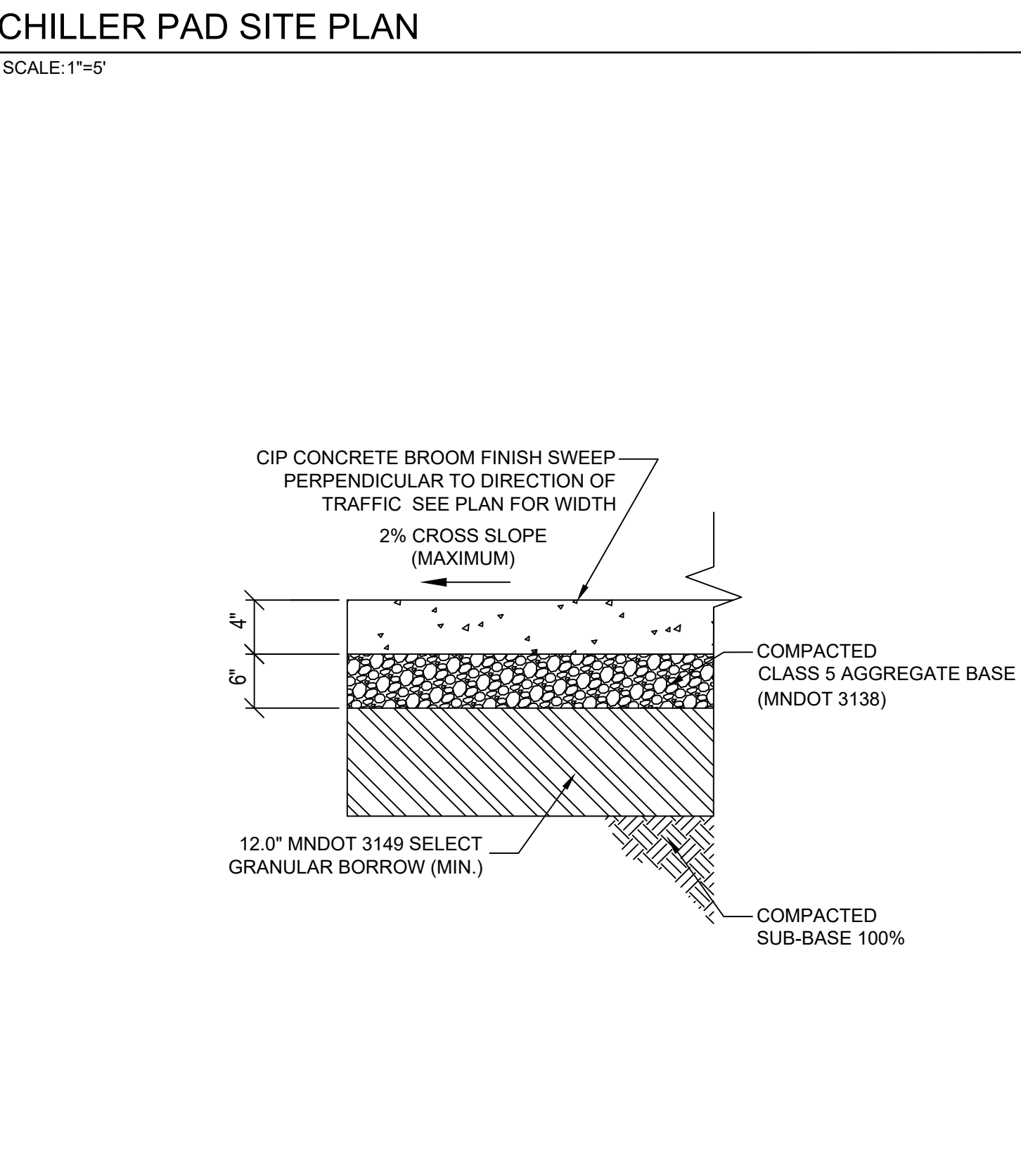
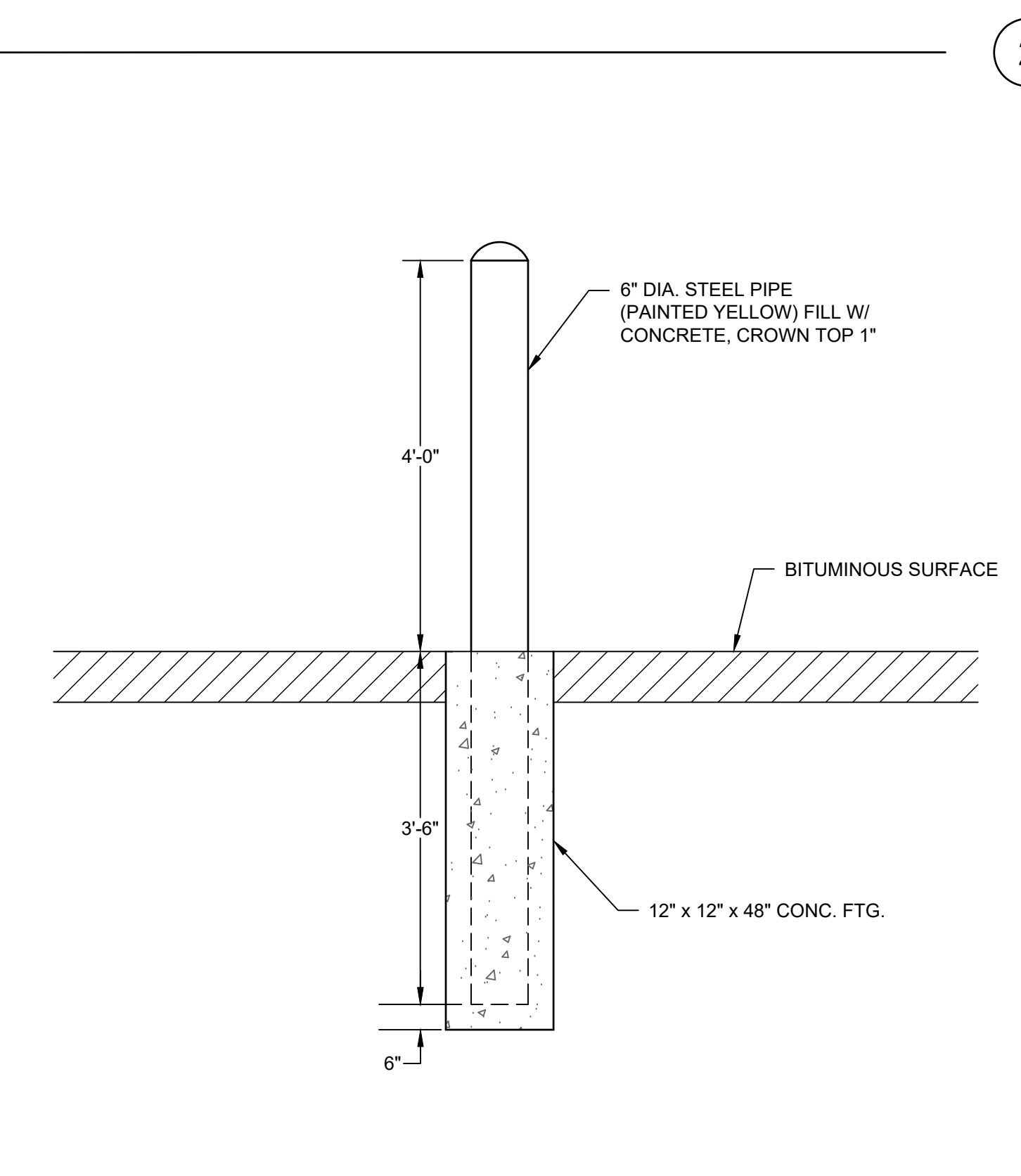
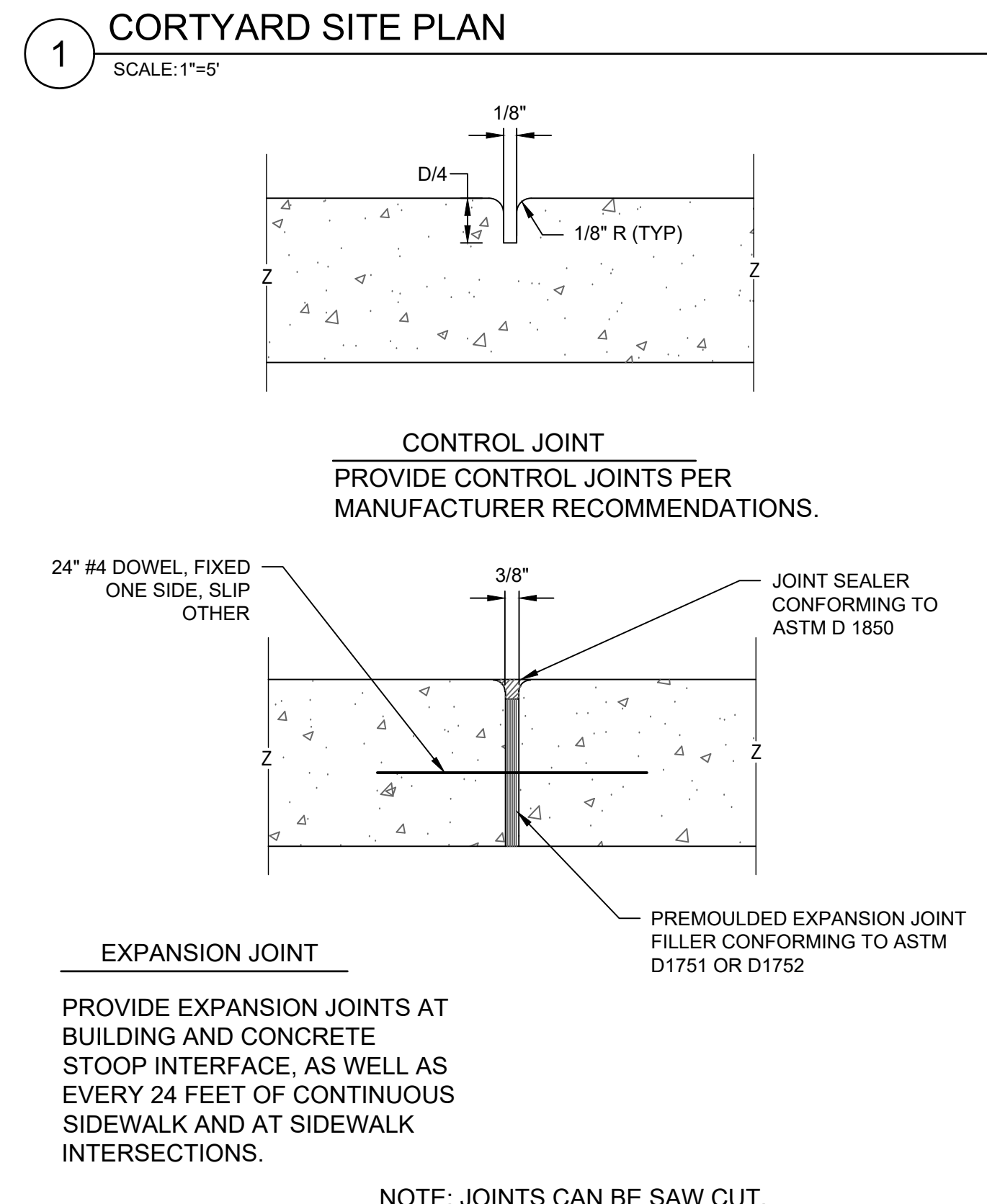
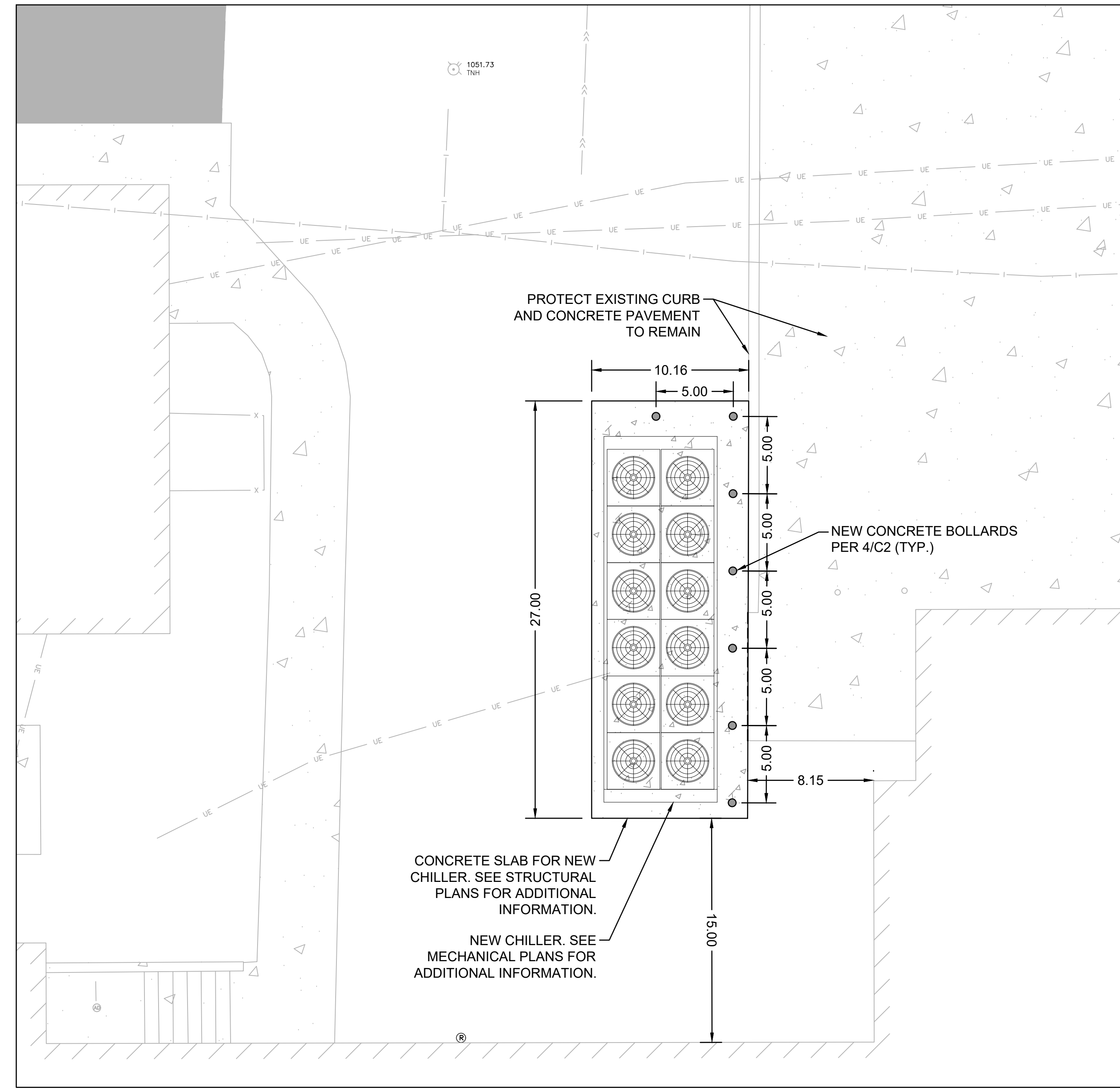
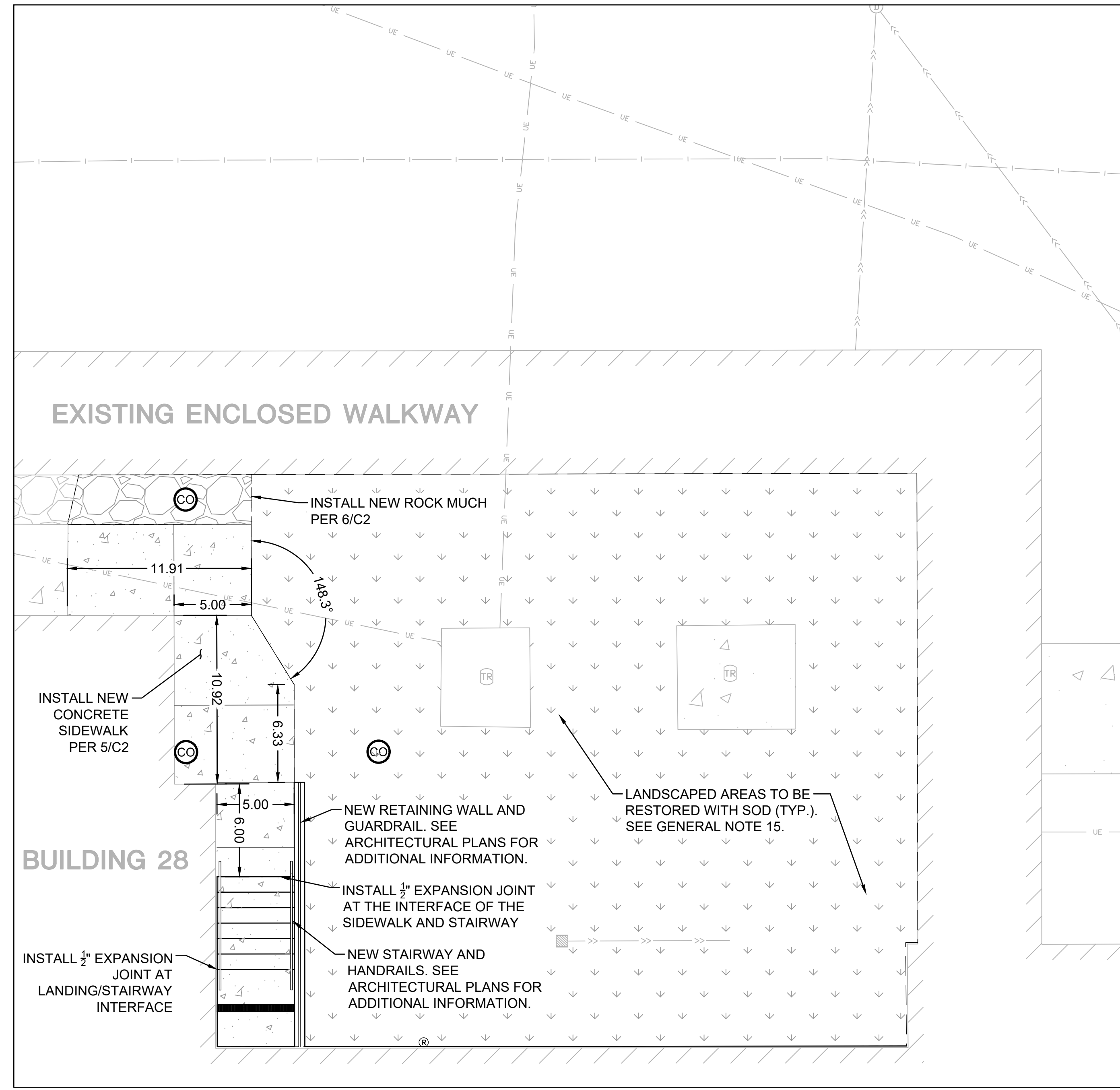
Veterans Health Administration
St. Cloud VA Health Care System

LEGEND:

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

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Revision#	Description	Date:

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 web: dunhameng.com
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PRINT NAME: IAN J. WEBER, PE

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

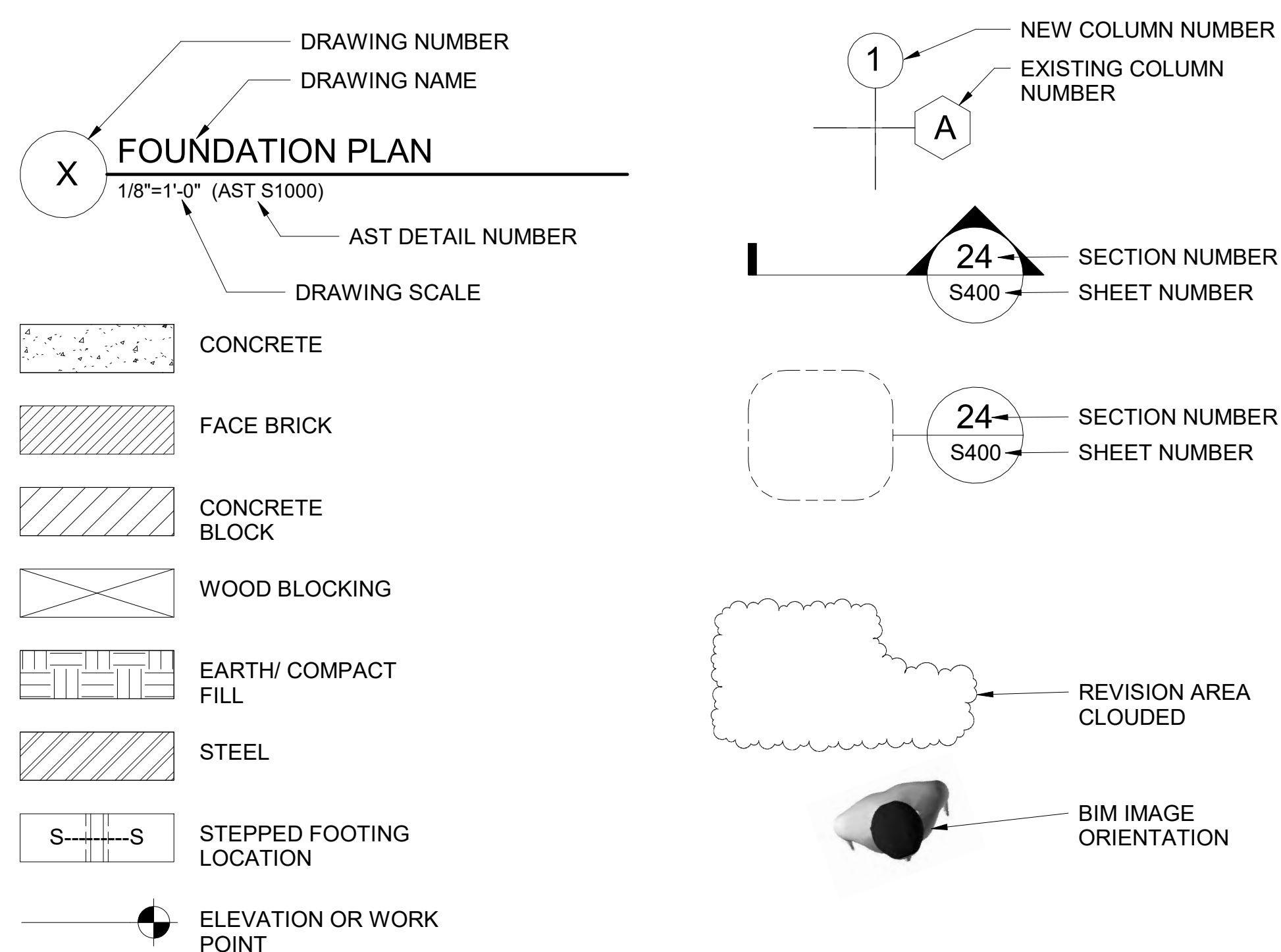
Veterans Health Administration
 St. Cloud VA Health Care System

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	CONCRETE 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.	CONCRETE 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	O	ON CENTER(S)	W	WITH
DL	DEAD LOAD	OC	OVERHEAD	WP	WORK POINT
DO.	DITTO	OH	OPENING	WWR	WELDED WIRE REINFORCEMENT
DTL.	DETAIL	OPNG.	OPPOSITE		
DWG.	DRAWING	OPP.	OPPOSITE		
E	EAST	P	PRECAST CONCRETE		
EA.	EACH	PERIM.	PERIMETER		
ELEV.	ELEVATION	PL.	PLATE		
EMBED.	EMBEDMENT	PLF	POUNDS PER LINEAR FOOT		
EQ.	EQUAL	PROJ.	PROJECT		
EXIST.	EXISTING	PSF	POUNDS PER SQUARE FOOT		
EXP.	EXPANSION	PSI	POUNDS PER SQUARE INCH		
EXT.	EXTERIOR				
F	FABRICATE(OR)				
FAB.	FLOOR DRAIN				
FD	FOUNDATION				
FNDN.	FOOTING				
FTG.					
G	GAGE, GAUGE				
GA.	GALVANIZED				
GALV.	GENERAL				
GC	CONTRACT(OR)				

DRAWING INDEX

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

NOT FOR CONSTRUCTION

Revision#	Description	Date:

CONSULTANT

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P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj #

STAMP

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: *Kevin D. Clinton*
DATE: 5/22/2020 LICENSE #17811

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 SSS	Drawn KDC	

VA

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

GENERAL STRUCTURAL NOTES

- L. DESIGN DATA**
- A. BUILDING CODE**
- INTERNATIONAL BUILDING CODE 2012 EDITION
- B. DESIGN LOADS/DESIGN CRITERIA**
- WIND LOAD
 - BASIC WIND SPEED (3-SECOND GUST) $V_{ult} = 120$ MPH, RISK CATEGORY II
 - EXPOSURE C
 - INTERNAL PRESSURE COEFFICIENTS, GCF_i $+/-0.18$
 - FLOOR LOADS
 - LIVE LOAD (LL) -100 PSF
 - DEAD LOAD (SUPERIMPOSED) -10 PSF
 - STAIRS, CORRIDORS & LOBBIES (L.L.)
 - LIVE LOAD (LL) -100 PSF
 - SEISMIC DESIGN DATA
 - SEISMIC IMPORTANCE FACTOR 1.5
 - RISK CATEGORY IV
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS 0.06 S_a
 - SPECTRAL RESPONSE COEFFICIENTS 0.21 S_r
 - SITE CLASS D
 - SEISMIC DESIGN CATEGORY A
- 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
- 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**
- 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.
 - IN NO CASE, SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE STRUCTURAL DRAWINGS.
 - 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.
 - 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 ENGINEER (IN WRITING).
- E. REFERENCE STANDARDS - SEE IBC CHAPTER 35 FOR ALL REFERENCE STANDARDS.**
- II. SPECIAL INSPECTIONS**
- 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.
- | | |
|---------------------|-----------------------|
| 1. SECTION 1704.2.5 | FABRICATED ITEMS |
| 2. SECTION 1705.2 | STEEL CONSTRUCTION |
| 3. SECTION 1705.3 | CONCRETE CONSTRUCTION |
| 4. SECTION 1705.4 | MASONRY CONSTRUCTION |
| 5. SECTION 1705.6 | SOILS |
- 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**
- 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.
- | | |
|--------------|---|
| 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:
- 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 (H.L.T.) REPRESENTATIVE.
 - 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**
- 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.
- 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.
 - SHOP DRAWING PACKAGES MUST BE COMPLETE WHEN SUBMITTED AND MUST INCLUDE CERTIFIED CALCULATIONS IF REQUIRED. INCOMPLETE SHOP DRAWING PACKAGES WILL BE REJECTED WITHOUT REVIEW.
 - PRIOR TO SUBMITTING SHOP DRAWINGS TO SEOR, THE SHOP DRAWINGS MUST BE REVIEWED AND COORDINATED BY THE GENERAL CONTRACTOR.
 - 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.
 - 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)	

- V. SITE WORK**
- A. GEOTECHNICAL REPORT**
- 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. 13-058 BY INDEPENDENT TESTING TECHNOLOGY DATED JANUARY 25, 2013 (FOR PRIOR RENOVATION PROJECT) INCLUDING:
 - DESIGN NET SOIL BEARING CAPACITY IS AS FOLLOWS:

SPREAD FOOTINGS	3000	PSF
STRIP FOOTINGS	3000	PSF
 - MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF BUILDING PERIMETER FOOTINGS SHALL BE 42". ALL OPEN-AIR FOUNDATIONS HAVE A MINIMUM OF 80" FROST PROTECTION.
 - 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.
 - 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.
- B. CONCRETE**
- A. CONCRETE MATERIAL PROPERTIES**
- | | | |
|------------------------------------|-------------------------|-----|
| 1. CONCRETE PROPERTIES: | STRENGTH (fc @ 28 DAYS) | |
| FOOTINGS | 3000 | PSI |
| BASEMENT, STEM AND RETAINING WALLS | 4000 | PSI |
| CONC. OVER METAL DECK | 3500 | PSI |
- 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.
 - ALL EXTERIOR CONCRETE, PERMANENTLY EXPOSED TO WEATHER (DOES NOT APPLY TO BURIED FOUNDATIONS), SHALL BE AIR ENTRAINMENT 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.
 - 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: | fy | KSI | ASTM |
| ALL BARS UNLESS NOTED | 60 | | A615 |
| WELDED WIRE FABRIC (SMOOTH) | 65 | | A185 |
| WELDABLE REBAR | 80 | | A706 |
- 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 |
|---------------------------------|----------------------------------|
| #3 | #10 |
| #4 | #13 |
| #5 | #16 |
| #6 | #19 |
| #7 | #22 |
| #8 | #25 |
| #9 | #29 |
| #10 | #32 |
| #11 | #36 |
| #14 | #43 |
| #18 | #57 |
- C. CAST IN PLACE CONCRETE**
- ALL CONCRETE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH IBC CHAPTER 19 & ACI-318
 - ALL REINFORCING SHALL BE DETAILED, FABRICATED & PLACED IN ACCORDANCE WITH ORSI "MANUAL OF STANDARD PRACTICE." THE STEEL REINFORCING SUPPLIER SHALL SUBMIT SHOP DRAWINGS FOR ALL ELEMENTS & MEMBERS WITH REINFORCING FURNISHED BY THE SUPPLIER.
 - PER ACI 7.5.1, ALL REINFORCEMENT SHALL BE PLACED AND SUPPORTED PRIOR TO PLACING CONCRETE. "WET STICKING" OF REBAR, INCLUDING DOWELS, IS PROHIBITED.
 - 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 - #4x4-0" DIAGONAL BARS AT EACH CORNER FOR EACH LAYER OF REINFORCEMENT.
 - PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.
 - PROVIDE ISOLATION JOINTS AROUND COLUMNS AT SLAB ON GRADE AREAS
 - THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

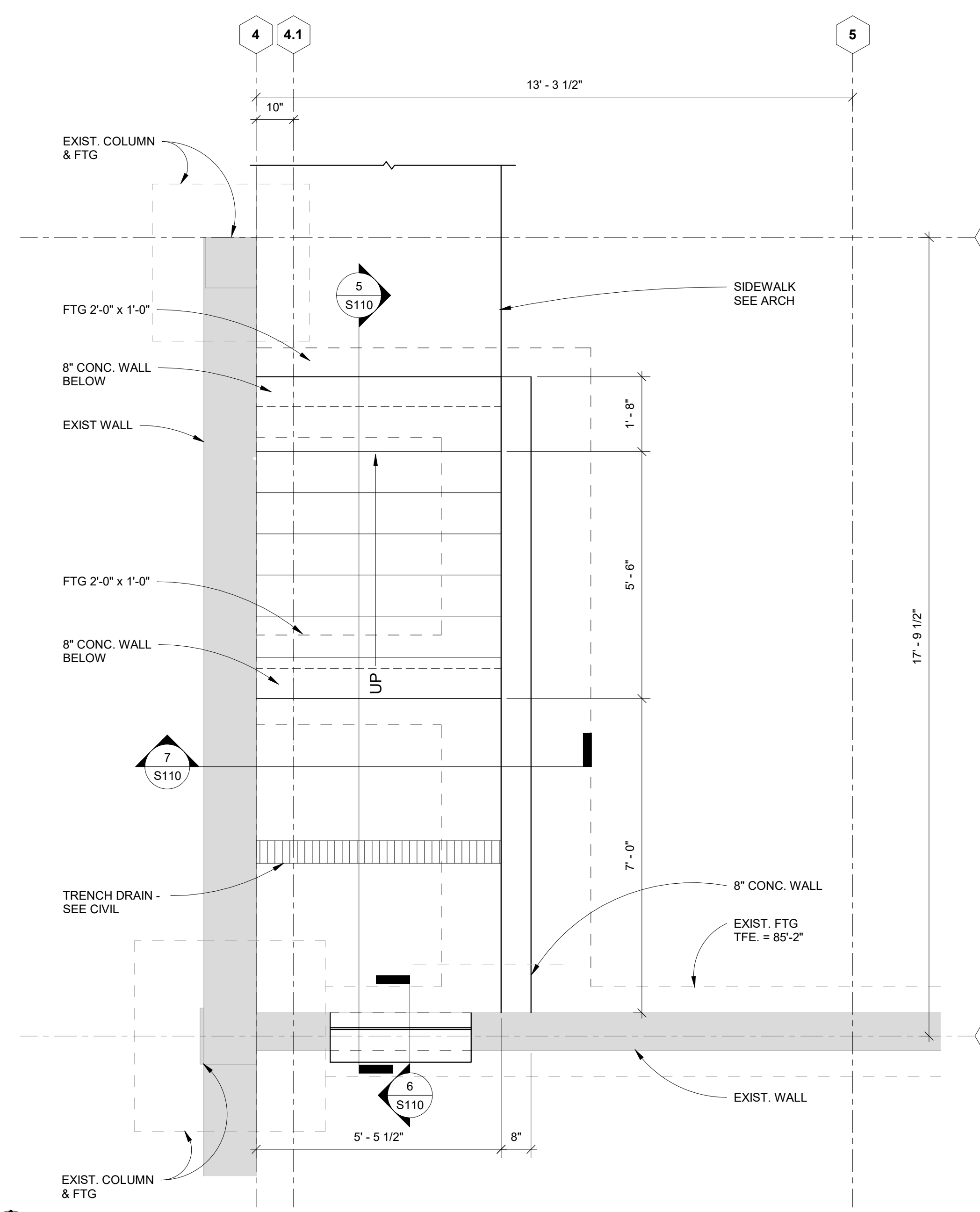
CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THRU #18 BARS	2
#5 & SMALLER BARS	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS & WALLS: #14 & #18 BARS	1 1/2
#11 & SMALLER BARS	3/4

- VII. MASONRY**
- A. MASONRY MATERIAL PROPERTIES**
- | | | |
|---------------------------------|----------------|---------|
| 1. MASONRY PROPERTIES: | STRENGTH (PSI) | ASTM |
| HOLLOW MASONRY UNITS | 3750 | CB0-NJ |
| UNIT MASONRY (ASSY., fm) | 2500 | |
| BRICK MASONRY (ASSY., fm) | 1400 | C218-SW |
| MORTAR TYPE S (LOAD BRG. BLOCK) | 1900 | C270 |
| GROUT (MIN) | 2000 | C476 |
| REINFORCING BARS | 60,000 | A615 |
| COLD DRAWN STEEL WIRE | 70,000 | A62 |
- B. GENERAL MASONRY**
- DESIGN IS BASED ON VALUES AS PUBLISHED IN THE "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" (ACI-530 / ASCE-5 / TMS-402).
 - ALL HOLLOW UNIT BLOCK COMPRESSION TEST STRENGTHS REQUIRED TO ACHIEVE THE fm STATED ABOVE SHALL BE ACCORDING TO "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI-530.1 / ASCE-6 / TMS-602, SECTION 1.4) BASED ON STRENGTHS BY THE UNIT STRENGTH METHOD.
 - DESIGN IS BASED ON ENGINEERED MASONRY / ALLOWABLE STRESS DESIGN.
 - SHOP DRAWINGS SHALL BE SUBMITTED SHOWING CMU REINFORCEMENT SIZES, SPACING, LOCATIONS, QUANTITIES AND BENDING AND CUTTING SCHEDULES.
 - BRICK TIES SHALL BE A MIN. OF 3/8" DIA. ADJUSTABLE RECTANGULAR WALL TIES AS MANUFACTURED BY DUER-O-WALL OR APPROVED EQUAL. PROVIDE ONE TIE FOR EACH 2.00 SQUARE FEET OF WALL AREA. THE SPACING RECOMMENDATION IS 16" ON CENTER VERTICALLY & 18" ON CENTER HORIZONTALLY.
- VIII. 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 | 35,000 | A53 GRADE B |
| STRUCTURAL TUBES | 50,000 | A500 GRADE C |
| HEADED STUDS, TYPE B (F _u =65,000) | 51,000 | AWG D1.1 CHAPTER 7 |
| EXPANSION BOLTS SHALL BE HILTI KWIK BOLT 3 OR PRE-APPROVED EQUAL. | | |
- B. STRUCTURAL STEEL**
- 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.
 - 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.
 - 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.
- C. STEEL DECK**
- 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, U.N.O.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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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<p>Revision# Description Date:</p>	<p style="text-align: center;">CONSULTANT</p> <p style="text-align: center;">DUNHAM</p> <p style="font-size: 8pt;">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</p>	<p style="text-align: center;">ARCHITECT/ENGINEER OF RECORD</p> <p style="text-align: center;">AST</p> <p style="text-align: center;">ANDERSON</p> <p style="font-size: 8pt;">7301 OHMS LANE SUITE #215 EDINA, MN 55439 (952) 854-9302 TEL (952) 854-9302 FAX © PROPERTY OF ADVANCED STRUCTURAL TECHNOLOGIES THIS DOCUMENT MAY NOT BE USED OR COPIED WITHOUT THE PRIOR WRITTEN CONSENT OF ADVANCED STRUCTURAL TECHNOLOGIES.</p>	<p style="text-align: center;">STAMP</p> <p style="font-size: 8pt;">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: <i>Kevin D. Clinton</i> DATE: 5/22/2020 LICENSE #17811</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Project Title DESIGN RENOVATE BUILDING 28</td> <td colspan="2">Project Number VA# 656-19-306</td> </tr> <tr> <td colspan="2">Location SAINT CLOUD, MN</td> <td colspan="2">Building Number 28</td> </tr> <tr> <td colspan="2">Phase CONSTRUCTION DOCUMENTS</td> <td colspan="2">Drawing Number S100</td> </tr> <tr> <td colspan="4">Drawing Title GENERAL NOTES</td> </tr> <tr> <td>Issue Date MAY 22, 2020</td> <td>Checked SSS</td> <td>Drawn KDC</td> <td></td> </tr> </table>	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 SSS	Drawn KDC		<p style="text-align: center; font-size: 24pt; font-weight: bold;">VA</p> <p style="text-align: center; font-size: 12pt;">U.S. Department of Veterans Affairs</p> <p style="text-align: center; font-size: 10pt;">Veterans Health Administration St. Cloud VA Health Care System</p>
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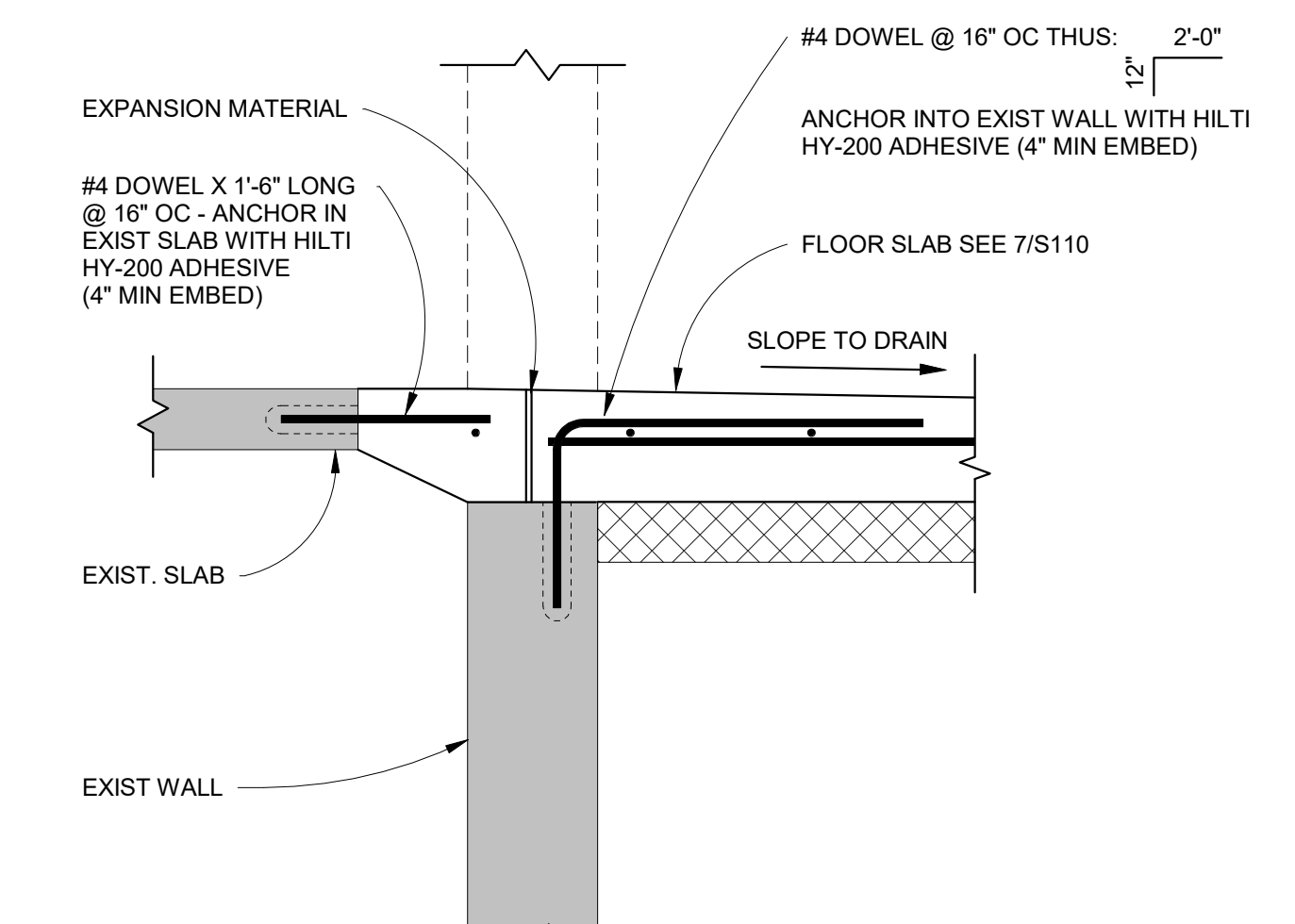
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



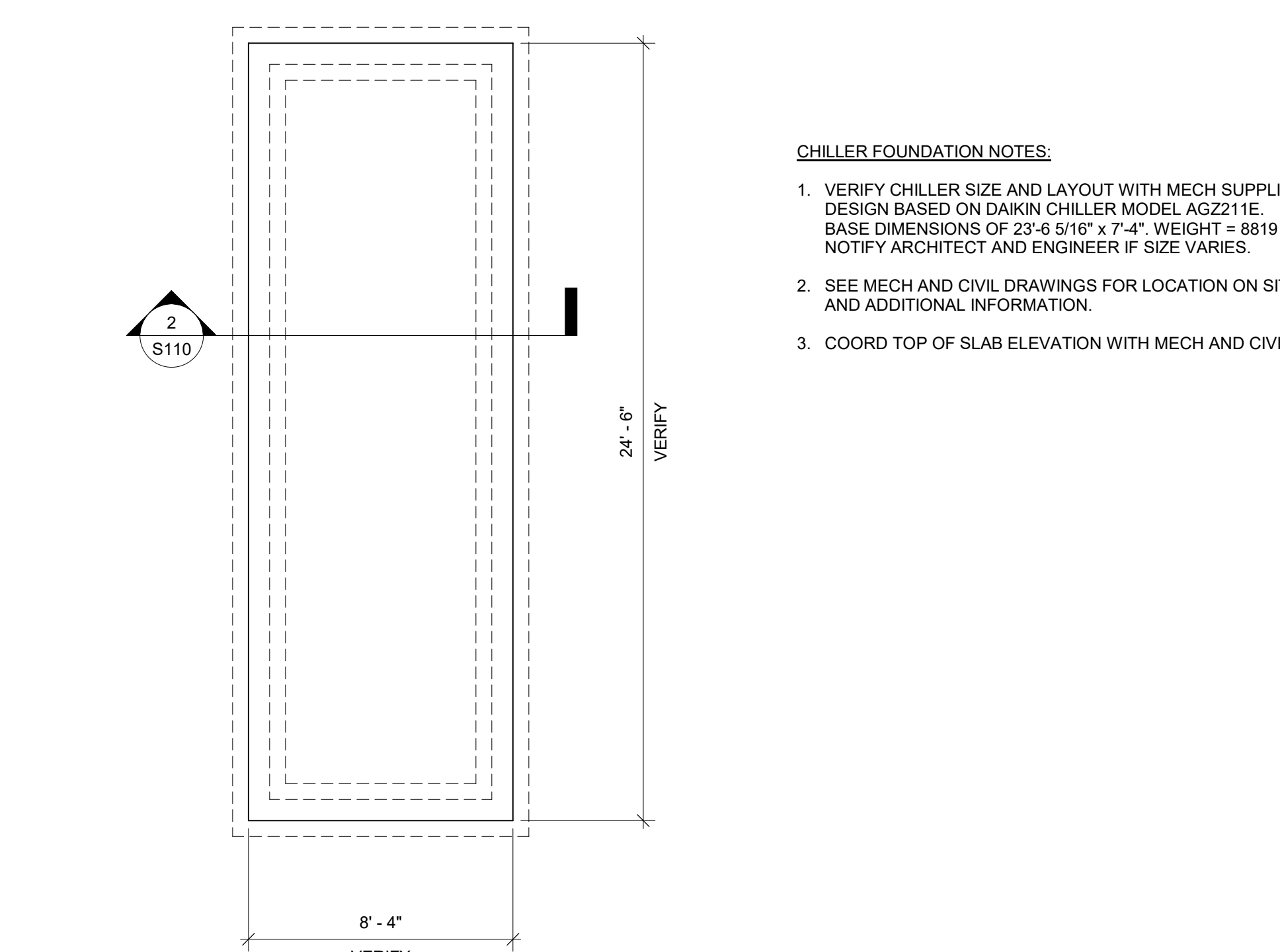
4 STAIRWELL PLAN
 1/2" = 1'-0"

FOUNDATION PLAN NOTES:

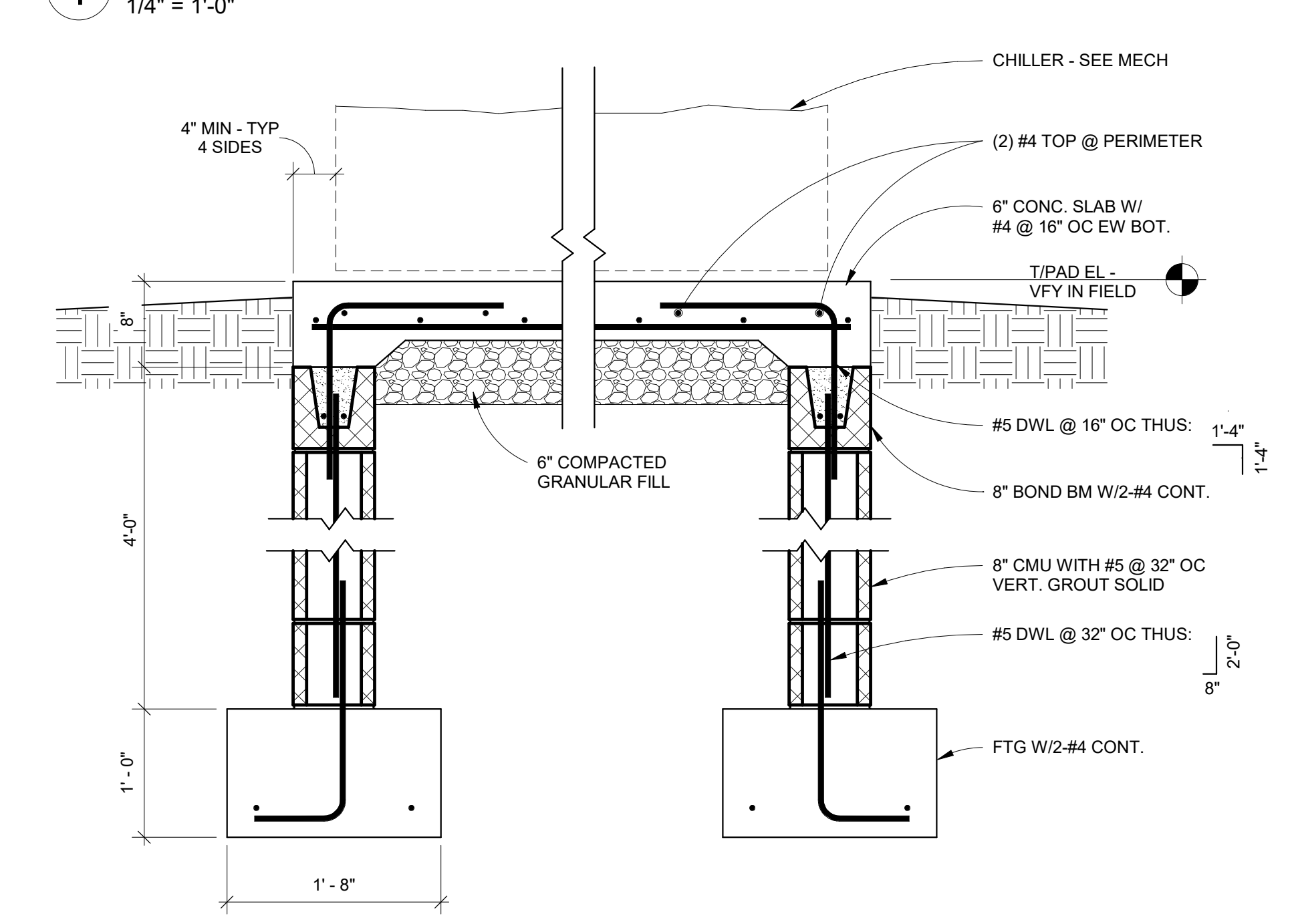
- TOP OF SLAB ELEVATION (TSE) = 89'-0" UNO ON PLAN. VERIFY W/ CIVIL AND ARCH.
- THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE FOOTING ELEVATIONS SHOWN LOCATE THE BOTTOM OF THE FOOTING AT AN ELEVATION WHICH PROVIDES BEARING IN ACCORDANCE WITH 3000 PSF BEARING PRESSURE. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF LOCATIONS THAT DO NOT SATISFY THOSE REQUIREMENTS.



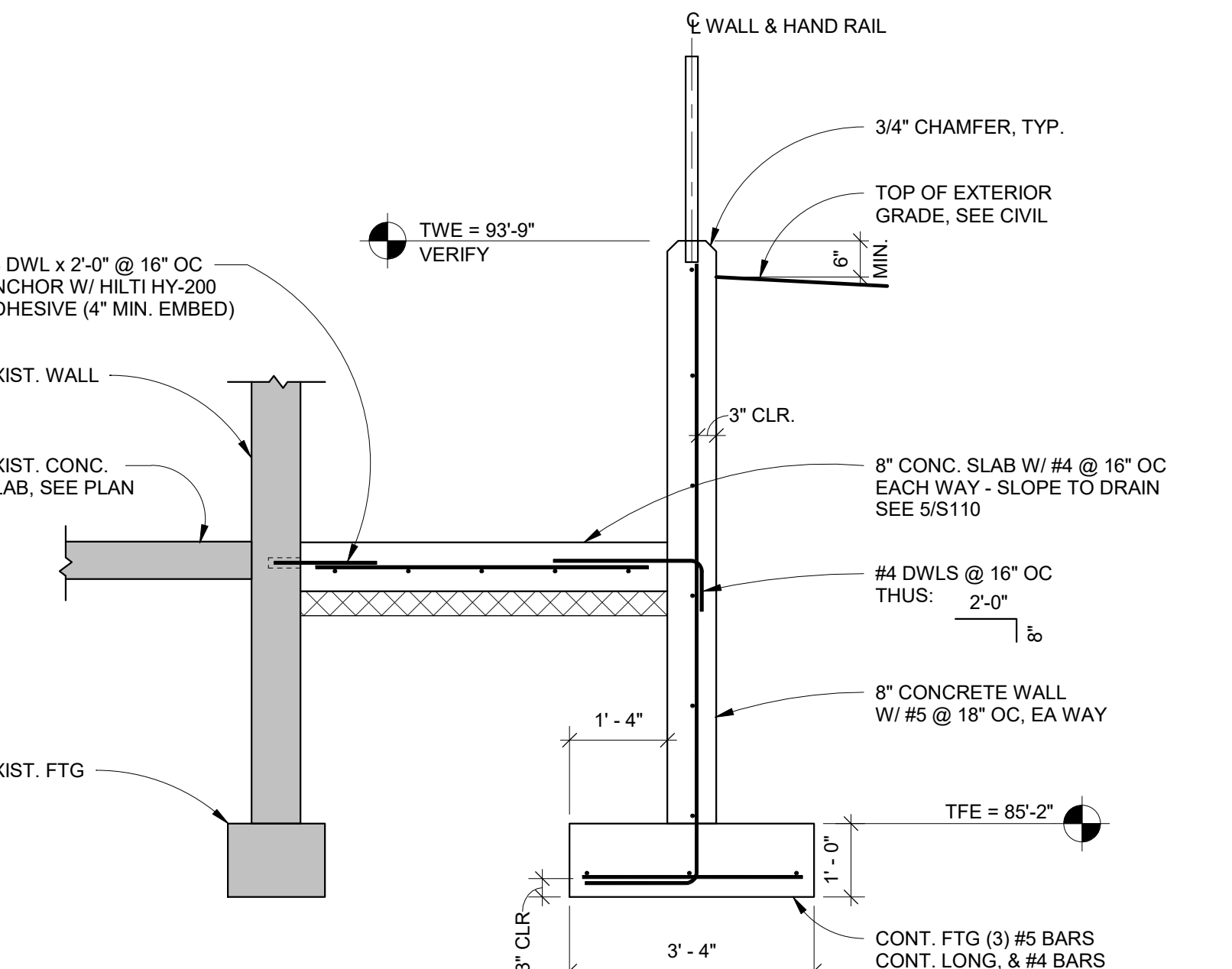
6 SLAB AT WALL
 1" = 1'-0"



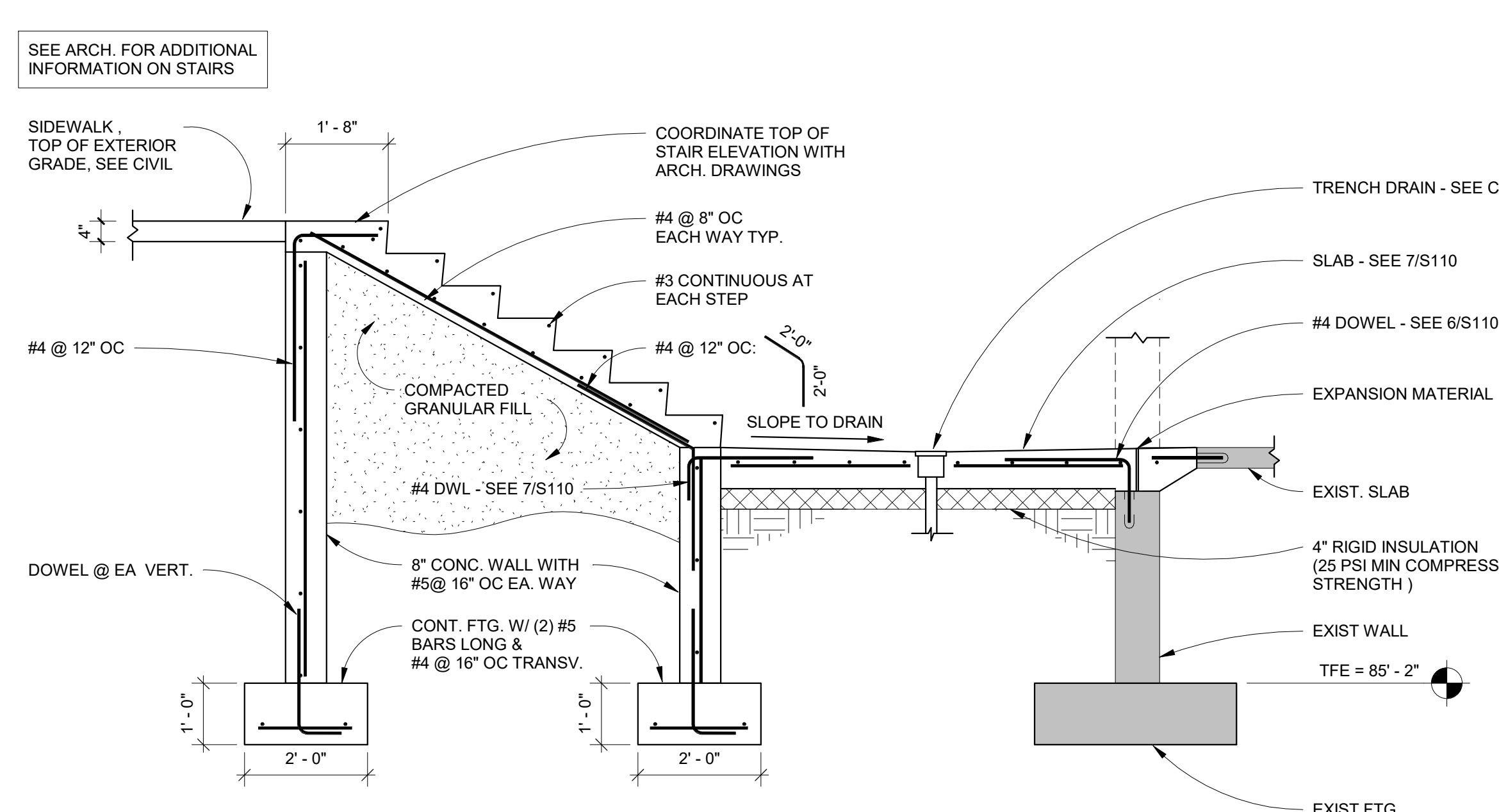
1 CHILLER FOUNDATION
 1/4" = 1'-0"



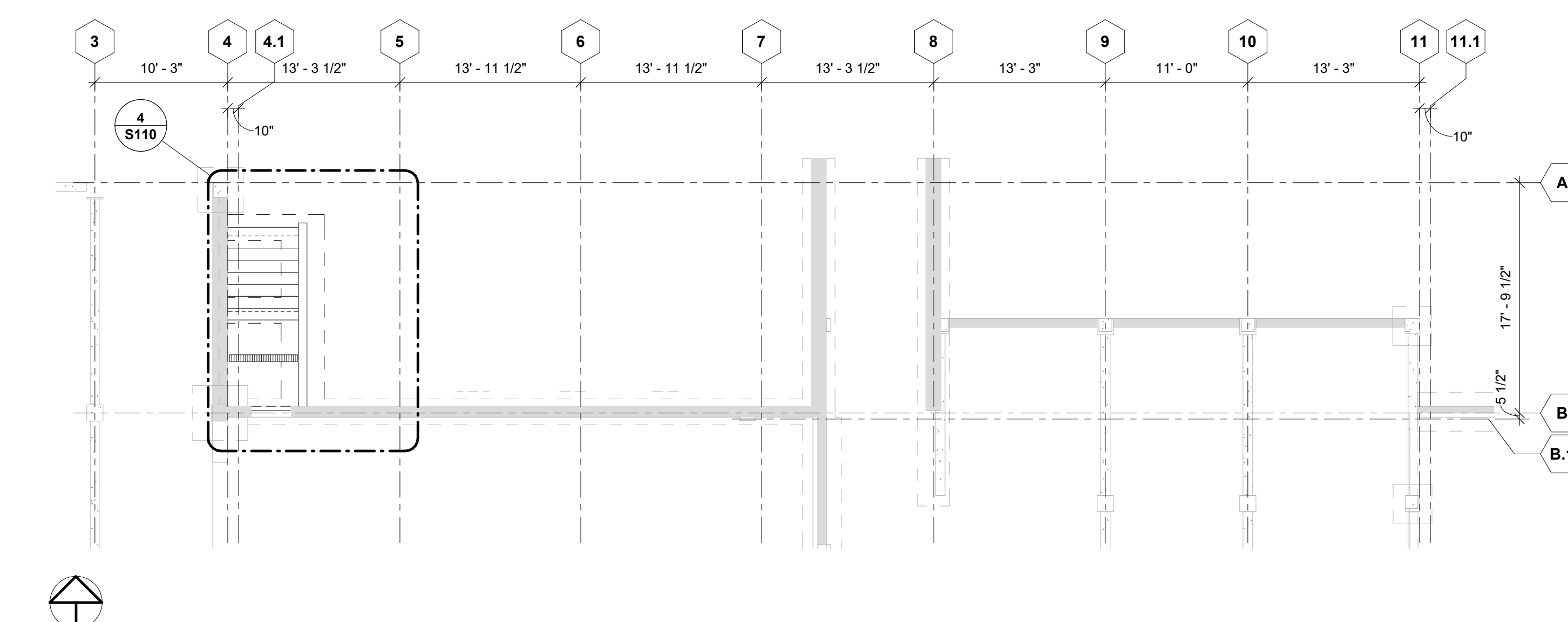
2 CHILLER FOUNDATION
 1" = 1'-0"



7 SECTION
 1/2" = 1'-0"



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



3 PARTIAL BASEMENT PLAN
 1/8" = 1'-0"

CHILLER FOUNDATION NOTES:

- VERIFY CHILLER SIZE AND LAYOUT WITH MECH SUPPLIER. DESIGN BASED ON DAIKIN CHILLER MODEL AS2211E. BASE DIMENSIONS OF 23'-6 5/16" x 7'-4". WEIGHT = 8819 LBS. NOTIFY ARCHITECT AND ENGINEER IF SIZE VARIES.
- SEE MECH AND CIVIL DRAWINGS FOR LOCATION ON SITE AND ADDITIONAL INFORMATION.
- COORD TOP OF SLAB ELEVATION WITH MECH AND CIVIL.

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Revision#	Description	Date:

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PRINT NAME: KEVIN D. CLINTON
 SIGNATURE: *Kevin D. Clinton*
 DATE: 5/22/2020
 LICENSE #17811

Project Title DESIGN RENOVATE BUILDING 28			Project Number VA# 656-19-306		
Location SAINT CLOUD, MN			Building Number 28		
Phase CONSTRUCTION DOCUMENTS			Drawing Number S110		
Issue Date MAY 22, 2020	Checked SSS	Drawn KDC			

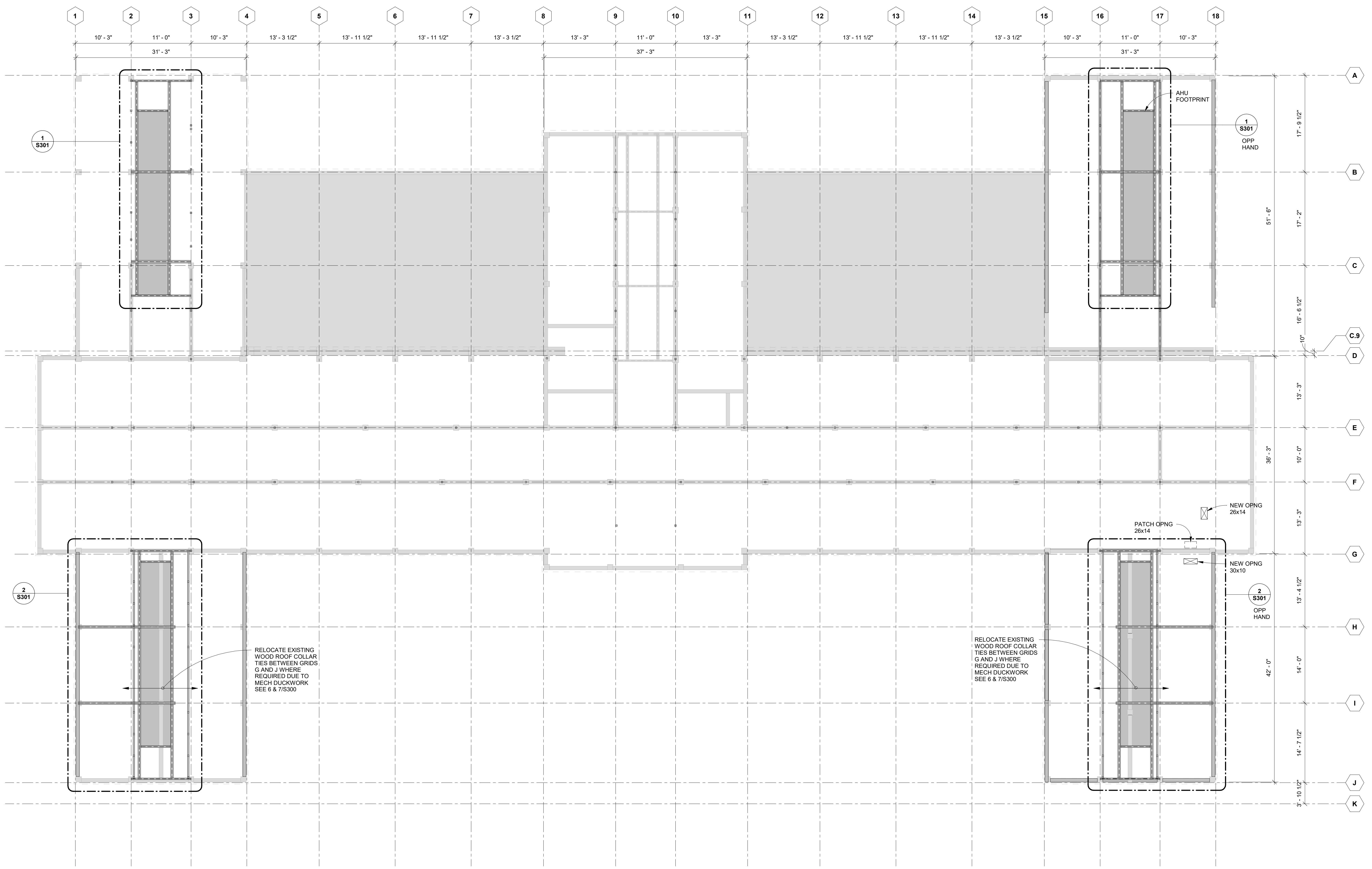
VA

U.S. Department of Veterans Affairs

Veterans Health Administration
 St. Cloud VA Health Care System

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one half inch = one foot
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one quarter inch = one foot
one eighth inch = one foot

A
B
C
D
E
F



1 ATTIC FRAMING PLAN
1/8" = 1'-0"

NOT FOR CONSTRUCTION

Revision#	Description	Date:

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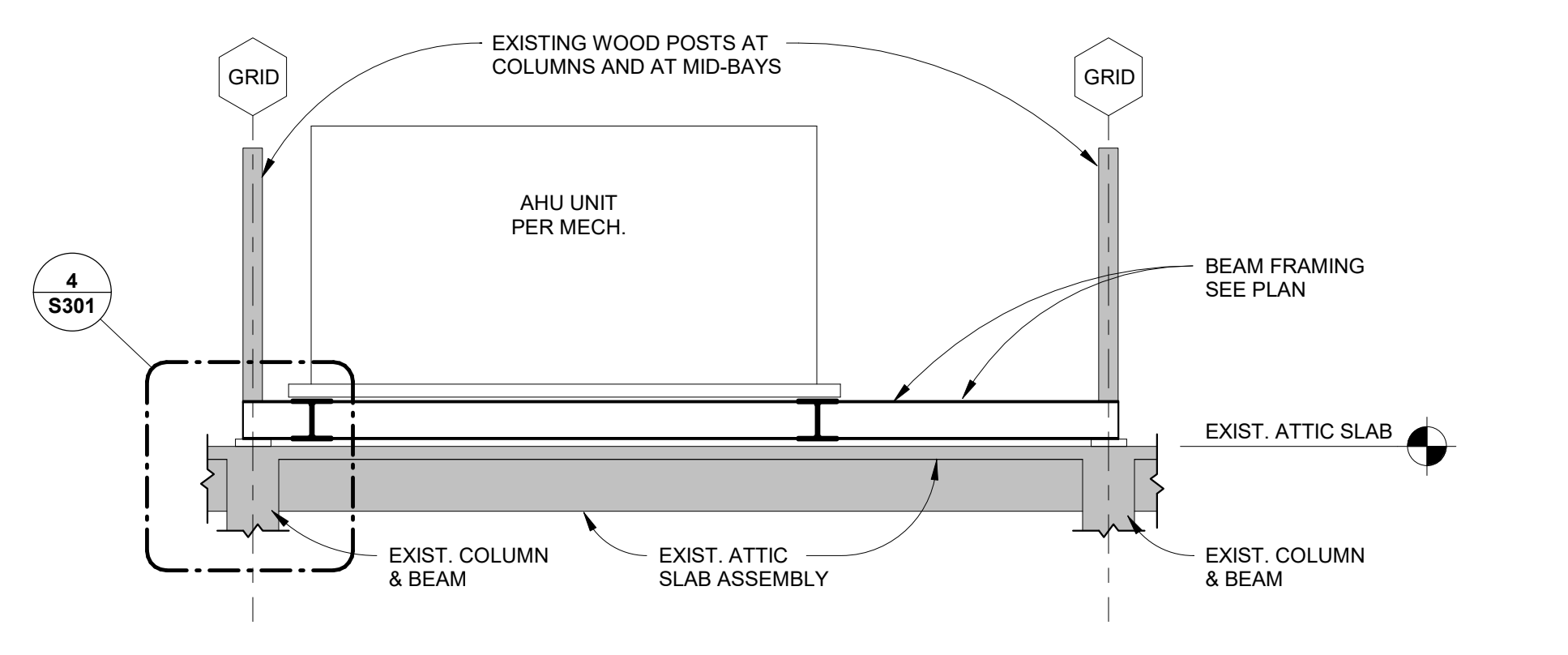
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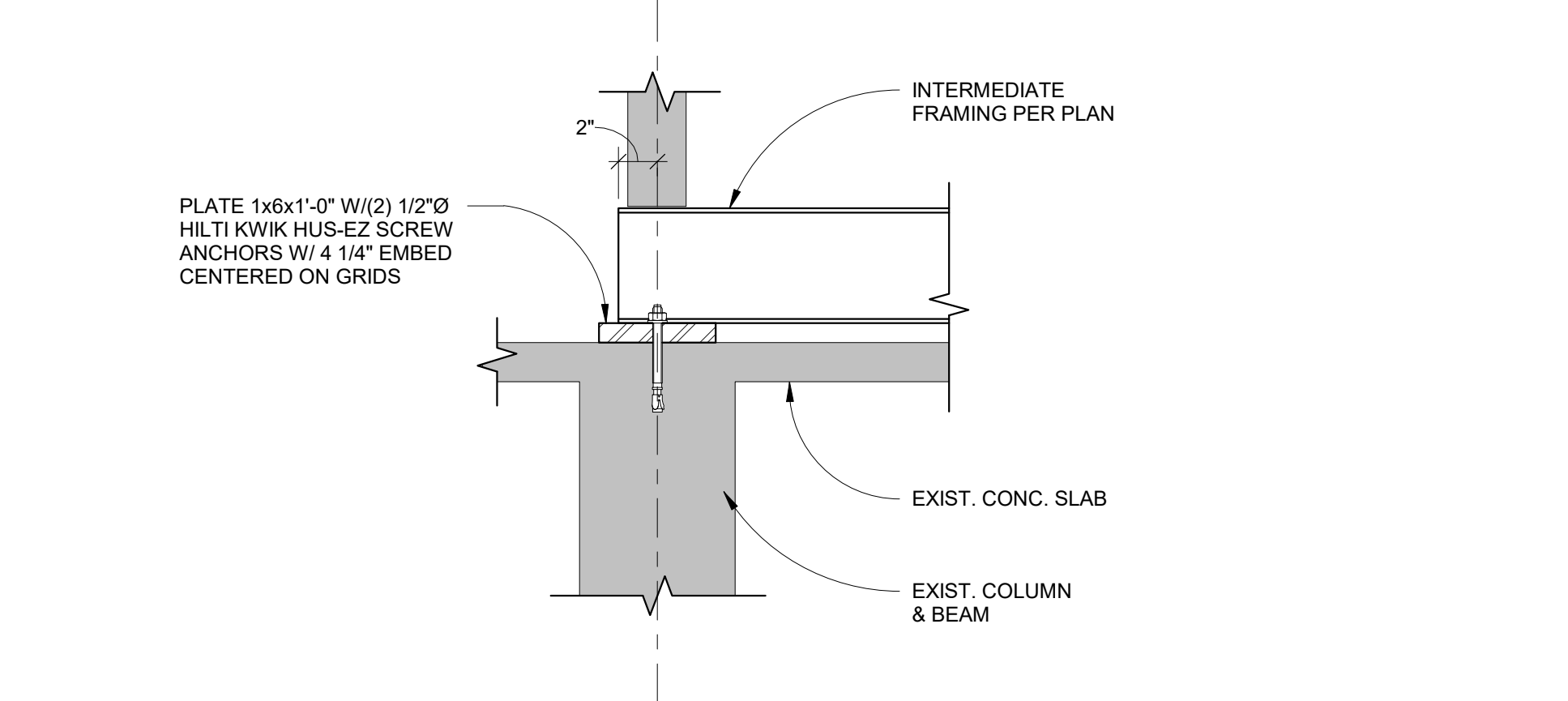
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Location SAINT CLOUD, MN			Building Number 28		
Phase CONSTRUCTION DOCUMENTS			Drawing Number S210		
Drawing Title ATTIC FLOOR PLAN			Issue Date MAY 22, 2020		
Checked SSS	Drawn KDC				

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

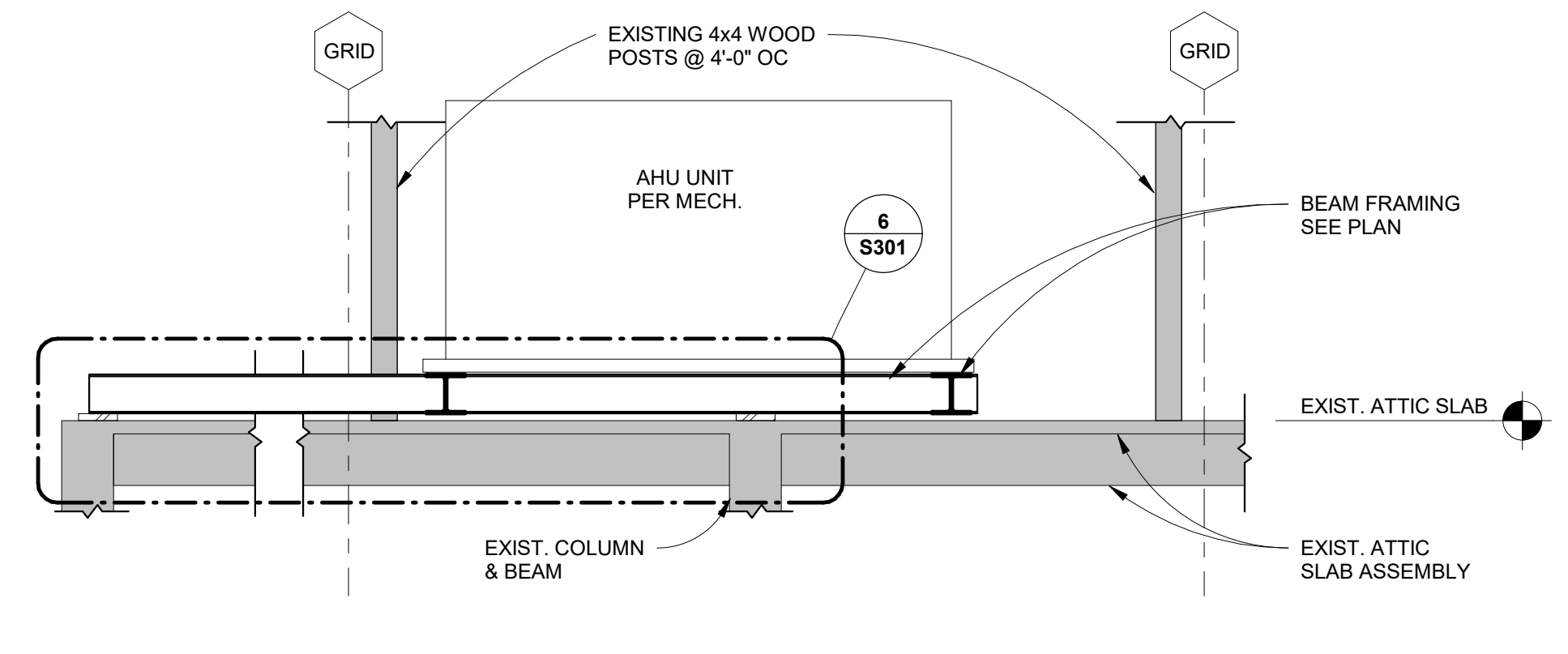
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 one quarter inch = one foot
 one eighth inch = one foot



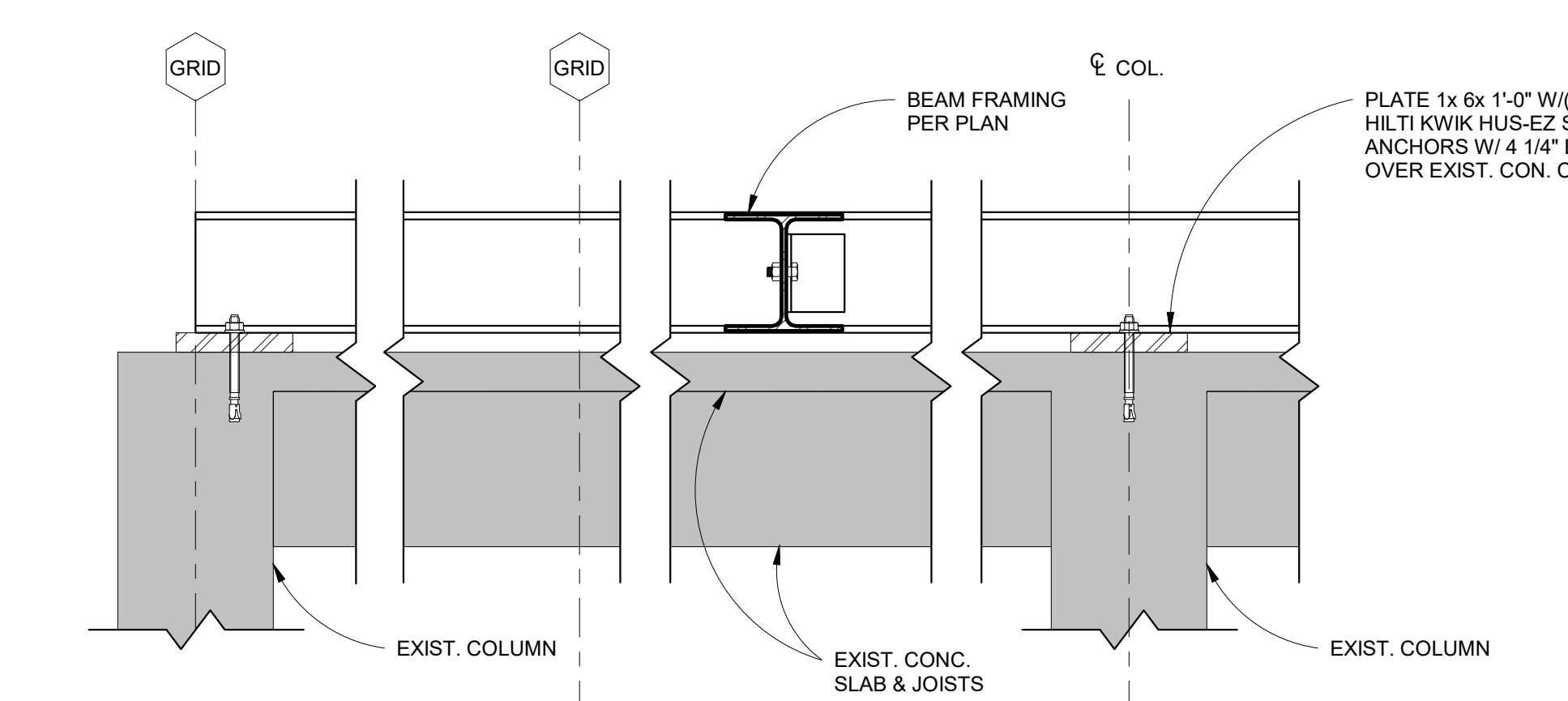
3 AHU FRAME SECTION
 1/2" = 1'-0"



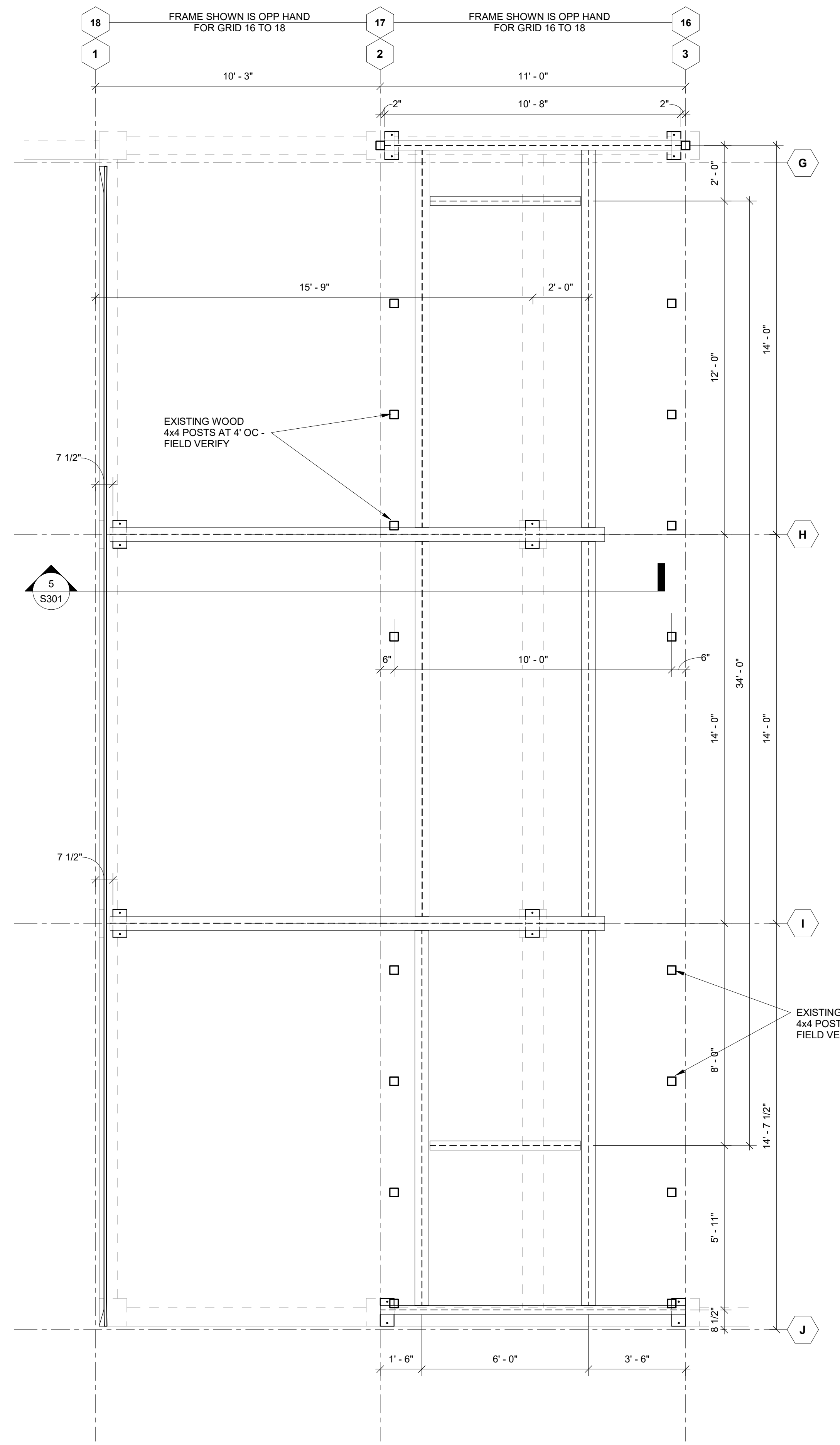
4 AHU FRAME SECTION
 1 1/2" = 1'-0"



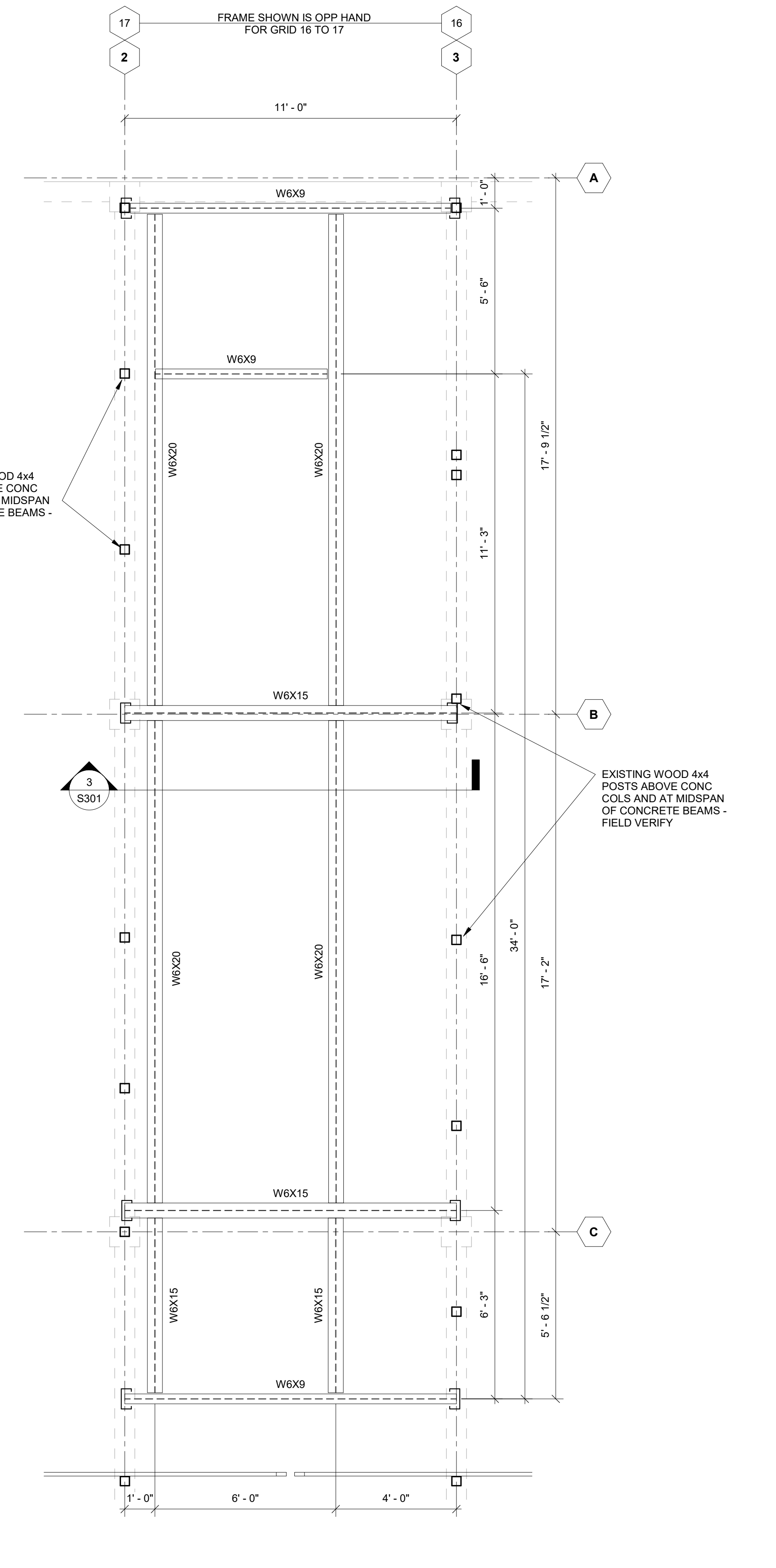
5 AHU FRAME SECTION
 1/2" = 1'-0"



6 AHU FRAME SECTION
 1 1/2" = 1'-0"



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



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

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.

Revision#	Description	Date:

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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 ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE: Kevin D. Clinton
 DATE: 5/22/2020
 LICENSE #17811

Project Title DESIGN RENOVATE BUILDING 28			Project Number VA# 656-19-306		
Location SAINT CLOUD, MN			Building Number 28		
Phase CONSTRUCTION DOCUMENTS			Drawing Number S301		
Drawing Title SECTIONS AND DETAILS			Issue Date MAY 22, 2020		
Checked SSS	Drawn KDC				

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

NOT FOR CONSTRUCTION