



U.S. Department of Veterans Affairs  
Veterans Health Administration

PROJECT NAME:

CONSTRUCT NEW SPS

SITE ADDRESS:

2501 WEST 22ND STREET. SIOUX FALLS, SD 57105

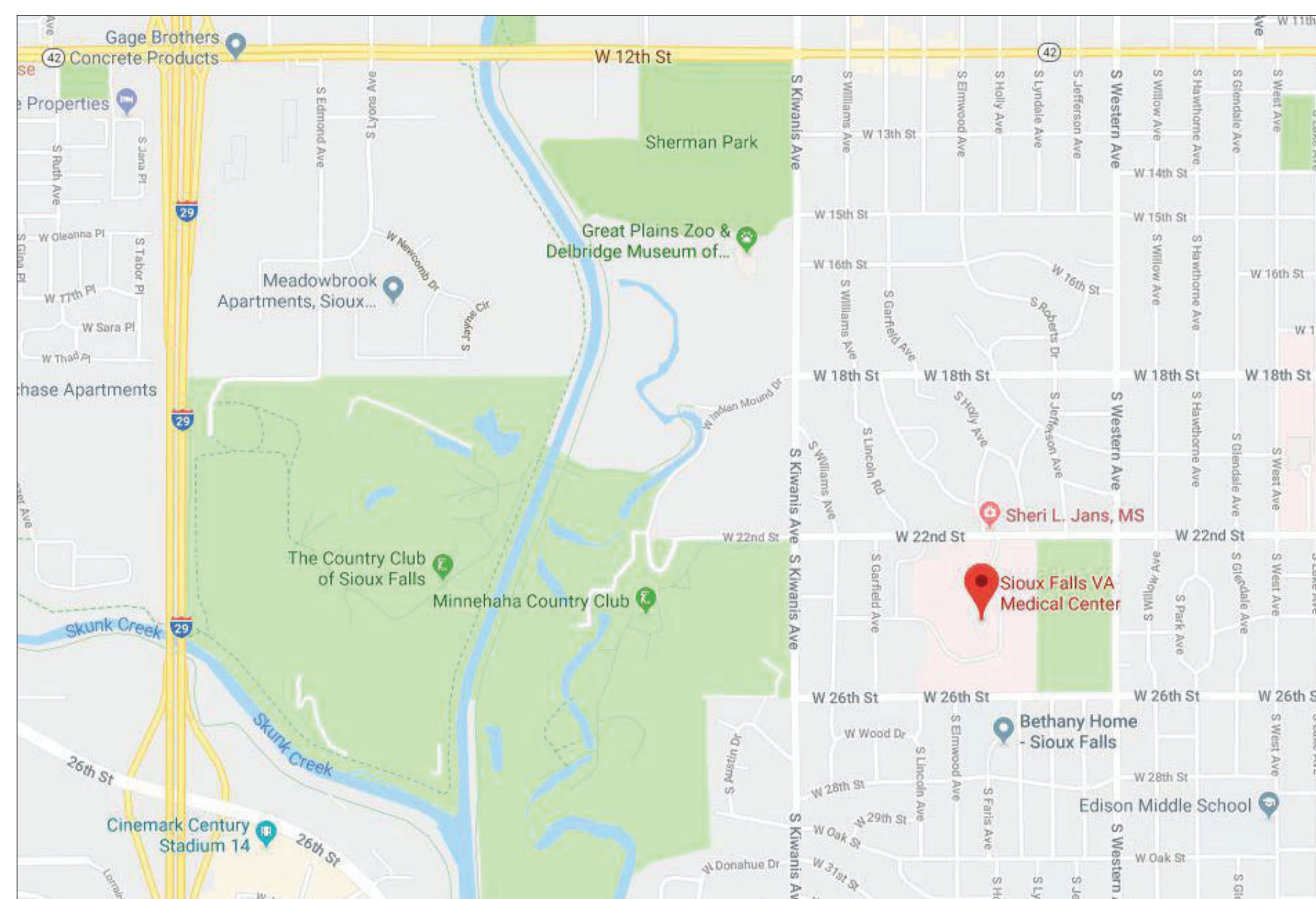
VA PROJECT NUMBER:

438-460

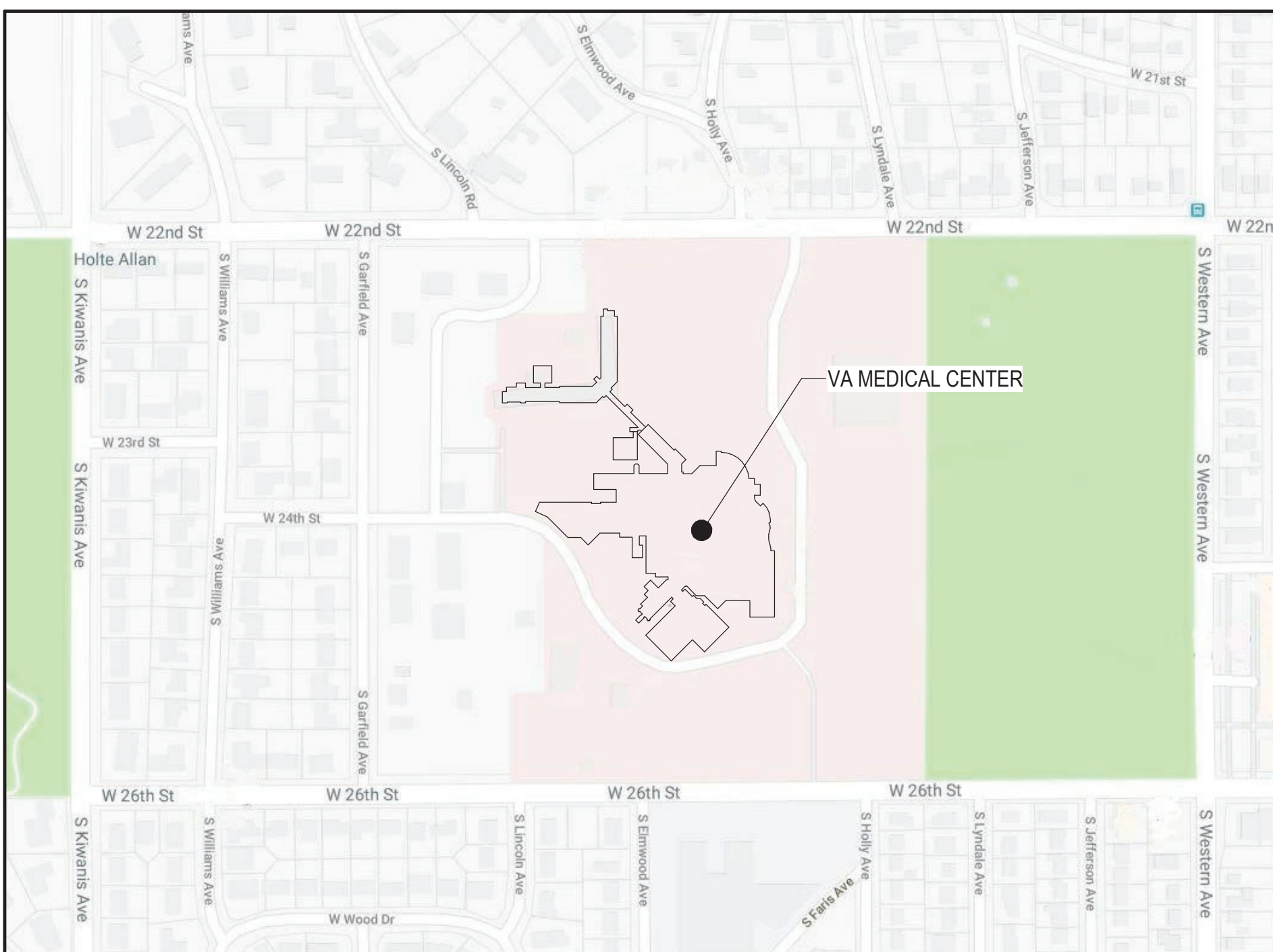
OWNER AND CONSULTANTS:

VA COR:	ARCHITECT:	STRUCTURAL ENGINEER:
CONTACT: Brooke White	NAME: ANDERSON ENGINEERING OF MN, LLC	NAME: IMEG Corp.
ADDRESS: 2501 WEST 22ND STREET, BUILDING 17 SIOUX FALLS, SD 57105	ADDRESS: 13605 1ST AVE NORTH, SUITE 100 PLYMOUTH, MN 55441	ADDRESS: 1410 WEST RUSSELL STREET SIOUX FALLS, SD 57104
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	NAME: ANDERSON ENGINEERING OF MN, LLC	NAME: IMEG Corp.
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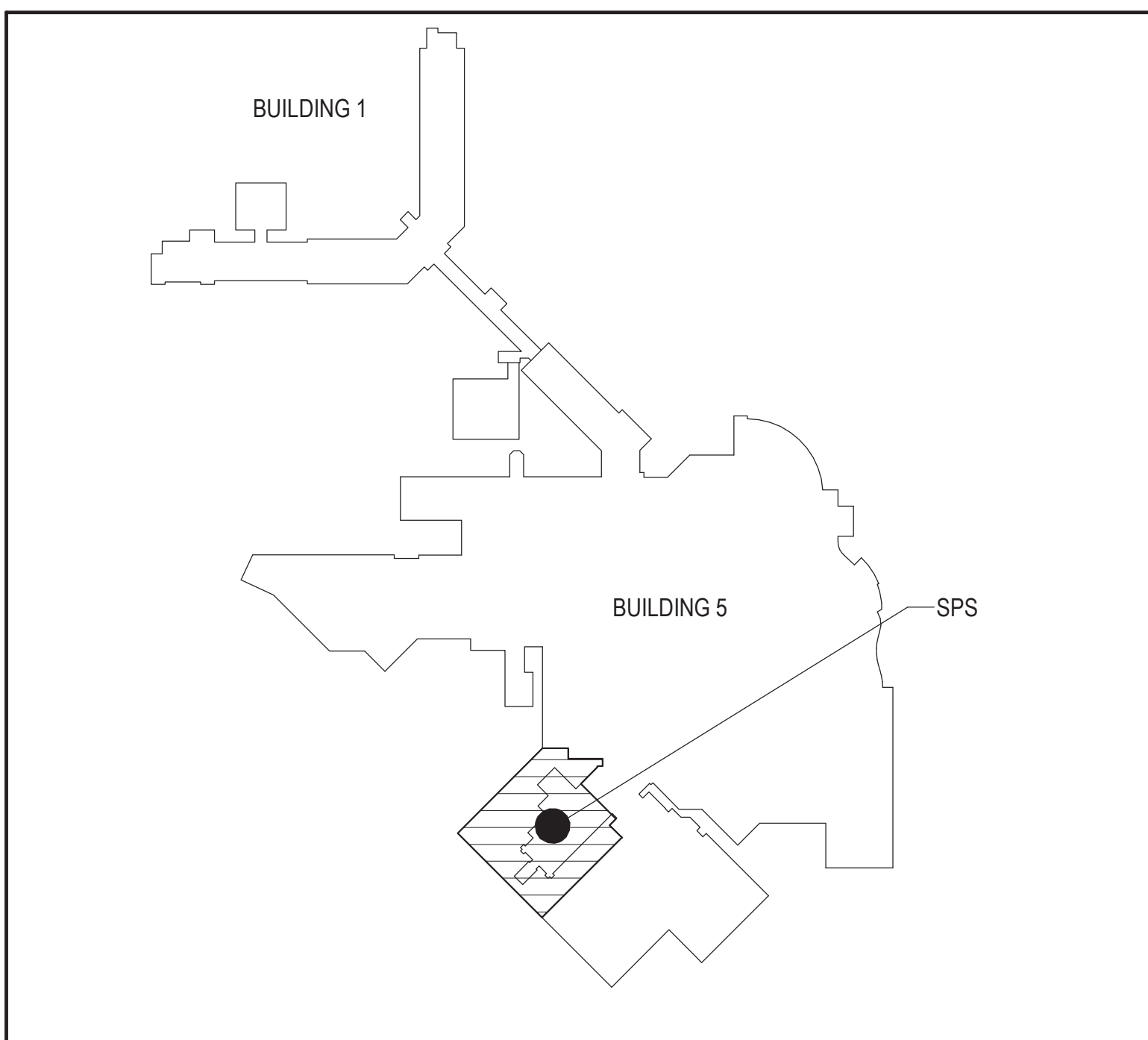
VICINITY MAP:



SITE LOCATION MAP:



KEY PLAN:



<div>Revisions:</div> <div>Date:</div>	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management <div>VA</div> U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title		Project Number
		<div>ANDERSON</div> <div>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 # 16584</div>	<div><div>PROFESSIONAL ENGINEER STATE OF MINNESOTA THOMAS A. OLESAK LICENSE # 9335 EXPIRATION DATE 08/04/2022</div><div>08/04/2022 License # 9335</div></div>		COVER SHEET	BID DOCUMENTS	CONSTRUCT NEW SPS		438-460
					Approved:	FULLY SPRINKLERED	Location Sioux Falls, SD.		Building Number 5
							Issue Date 08/04/2022	Checked Checker	Drawn Author

7/7/2023 1:25:16 PM  
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<p>DISCIPLINE DESIGNATOR</p> <p>SHEET TYPE DESIGNATOR</p> <p>FLOOR LEVEL</p> <p>SHEET GROUPING</p> <p>ZONE NUMBER</p>	<p>AE 1 1 1 - 01</p> <p>AE 111-01</p> <p>ARCHITECTURAL ELEMENTS, PLAN, FIRST LEVEL, FLOOR PLAN, ZONE 1</p>	<p>DISCIPLINE DESIGNATOR</p> <p>SHEET TYPE DESIGNATOR</p> <p>SHEET GROUPING</p>	<p>AF 6 70</p> <p>AF 670</p> <p>ARCHITECTURAL FINISHES, FINISH SCHEDULE</p>
<p>DISCIPLINE DESIGNATOR</p> <p>SHEET TYPE DESIGNATOR</p> <p>FLOOR LEVEL</p> <p>SHEET GROUPING</p> <p>ZONE NUMBER</p>	<p>QH 1 1 0 - 01</p> <p>QH110-01</p> <p>EQUIPMENT HOSPITAL, PLAN, FIRST LEVEL, ZONE 1</p>	<p>DISCIPLINE DESIGNATOR</p> <p>SHEET TYPE DESIGNATOR</p> <p>SHEET GROUPING</p>	<p>AE 5 12</p> <p>AE 501</p> <p>ARCHITECTURAL ELEMENTS, EXTERIOR PLAN DETAILS</p>

DISCIPLINE DESIGNATOR	SHEET TYPE DESIGNATOR	FLOOR LEVEL  PLANS ONLY	SHEET GROUPING
GC - GENERAL CONTRACT GI - GENERAL INFORMATION AC - ARCHITECTURAL ROP AD - ARCHITECTURAL DEMOLITION AS - ARCHITECTURAL SITE AE - ARCHITECTURAL ELEMENTS AF - ARCHITECTURAL FINISHES IF - INTERIOR FURNISHINGS QC - EQUIPMENT LAUNDRY QF - EQUIPMENT FOOD SERVICE QH - EQUIPMENT HOSPITAL QL - EQUIPMENT LABORATORY	0 - GENERAL 1 - PLANS 2 - ELEVATIONS 3 - SECTIONS 4 - LARGE SCALE VIEWS 5 - DETAILS 6 - SCHEDULES & DIAGRAMS	0 - LOWER LEVEL 1 - FIRST LEVEL 2 - SECOND LEVEL 3 - THIRD LEVEL 4 - FOURTH LEVEL	GENERAL: 00-10 - TITLE SHEET, NOTES, ABBREVIATIONS, SYMBOLS, SCHEDULES  PLANS: 1 - LEVEL FLOOR PLAN 2 - DIMENSION PLAN  ELEVATIONS: 01-10 - EXTERIOR ELEVATIONS 11-19 - INTERIOR ELEVATION  SECTIONS: 01-10 - BUILDING SECTIONS 11-19 - WALL SECTIONS 20-29 - STAIR SECTIONS & PLANS  DETAILS: 01-19 - EXTERIOR PLAN DETAILS 20-29 - EXTERIOR SECTION DETAILS 30-39 - ROOF DETAILS 40-49 - INTERIOR PLAN DETAILS 50-59 - INTERIOR SECTION DETAILS 60-69 - CEILING DETAILS

	NOT ISSUED
■	ISSUED
R	ISSUED FOR REFERENCE ONLY
N	ISSUED AS NOTED

SHEET INDEX - GENERAL			I/D DOCUMENTS 08/04/2023
SHEET NO.		SHEET TITLE	
G000	COVER SHEET		
G001	SHEET INDEX		
G002	ABBREVIATIONS		
G101	GROUND LEVEL LIFE SAFETY PLAN		
G111	INTERSTITIAL FIRST LEVEL LIFE SAFETY PLAN		
G2101	GROUND LEVEL INFECTION CONTROL & LIFE SAFETY PLAN		
G2111	FIRST LEVEL INFECTION CONTROL & PHASING PLAN		

SHEET INDEX - CIVIL		BID DOCUMENTS 8/4/2022
SHEET NO.	SHEET TITLE	
VB101	SITE SURVEY & MAPPING	
CD101	DEMOLITION PLAN	
CS101	SITE LAYOUT PLAN	
CG101	GRADING PLAN	
CG102	EROSION CONTROL PLAN	
CU101	UTILITY PLAN	
CU102	UNDERDRAIN PLAN	
CU103	SANITARY SEWER PLAN AND PROFILE	
CU104	STORM SEWER PLAN AND PROFILE	
CU105	STORM SEWER PLAN AND PROFILE	
CU106	WATER LINE PLAN AND PROFILE	
CP101	PAVING & JOINT LAYOUT PLAN	
C-501	RAMP SITE DETAILS	
C-502	STAIRS SITE DETAILS	
C-503	RETAINING WALL SITE DETAILS	
C-504	CIVIL DETAILS	
C-505	CIVIL DETAILS	
C-506	CIVIL DETAILS	
C-507	CIVIL DETAILS	
LP101	PLANTING PLAN	
LP501	PLANTING DETAILS	
LF101	SITE FURNISHINGS PLAN	
LF501	SITE FURNISHINGS DETAILS	
LF502	SITE FURNISHINGS DETAILS	
IR101	IRRIGATION PLAN	
IR501	IRRIGATION DETAILS	
IR502	IRRIGATION DETAILS	
IR503	IRRIGATION DETAILS	
IR504	IRRIGATION DETAILS	


SHEET INDEX - STRUCTURAL			BID DOCUMENTS 8/14/2022
SHEET NO.	SHEET TITLE		
SG000	GENERAL NOTES		
SG001	TESTING SCHEDULES		
SB100	PIPE BASINMENT FOUNDATION PLAN		
SB101	GROUND LEVEL FOUNDATION PLAN		
SB102	GROUND LEVEL COLUMN LOADS		
SB103	ENLARGED PLANS		
SB200	SECTIONS - FOUNDATION		
SB201	SECTIONS - FOUNDATION		
SF102	FIRST FLOOR & ROOF FRAMING PLAN		
SF103	ROOF FRAMING PLAN		
SF210	SECTIONS - FLOOR		
SF220	SECTIONS - ROOF		
SF221	SECTIONS - ROOF		
SF230	BRACE FRAME ELEVATIONS & SECTIONS		

SHEET INDEX - HAZARDOUS MATERIALS		
SHEET NO.	SHEET TITLE	
HA101	ASBESTOS CONTAINING MATERIALS	
HA102	LEAD CONTAINING MATERIAL	

SHEET INDEX - ARCHITECTURAL		BID DOCUMENTS 08/04/2022
SHEET NO.	SHEET TITLE	
AD101	GROUND LEVEL DEMOLITION PLAN	
AD111	INTERIOR/FIRST LEVEL DEMOLITION PLAN	
AD220	DEMOLITION WALL SECTIONS AND DETAILS	
AE101	GROUND LEVEL FLOOR PLAN	
AE102	GROUND LEVEL DIMENSION PLAN	
AE111	INTERIOR/FIRST LEVEL FLOOR PLAN	
AE112	INTERIOR/FIRST LEVEL DIMENSION PLAN	
AC101	GROUND LEVEL REFLECTED CEILING PLAN	
AC111	INTERIOR/FIRST LEVEL REFLECTED CEILING PLAN	
AE121	ROOF PLAN	
AE201	EXTERIOR ELEVATIONS	
AE211	INTERIOR ELEVATIONS	
AE212	INTERIOR ELEVATIONS	
AE301	BUILDING SECTIONS	
AE302	BUILDING SECTIONS	
AE311	WALL SECTIONS	
AE312	WALL SECTIONS	
AE313	WALL SECTIONS	
AE314	WALL SECTIONS	
AE320	STAIR SECTIONS AND ENLARGED PLANS	
AE321	STAIR SECTIONS AND ENLARGED PLANS	
AE322	STAIR SECTIONS - PARTITIONS AT EXISTING STAIR	
AE411	ENLARGED PLANS & INTERIOR ELEVATIONS	
AE412	ENLARGED PLANS & INTERIOR ELEVATIONS	
AE413	ENLARGED PLAN, SECTIONS AND DETAILS - CART WASH	
AE501	EXTERIOR PLAN DETAILS	
AE502	EXTERIOR PLAN DETAILS	
AE503	EXTERIOR PLAN DETAILS	
AE520	EXTERIOR SECTION DETAILS	
AE521	EXTERIOR SECTION DETAILS	
AE530	ROOF DETAILS	
AE531	ROOF DETAILS	
AE540	INTERIOR PLAN DETAILS	
AE541	INTERIOR PLAN DETAILS	
AE542	INTERIOR PLAN DETAILS	
AE543	INTERIOR PLAN DETAILS	
AE550	INTERIOR SECTION DETAILS	
AE551	INTERIOR SECTION DETAILS	
AE552	INTERIOR SECTION DETAILS	
AE560	CEILING DETAILS	
AE601	INTERIOR PARTITION TYPES AND DETAILS	
AE602	DOOR SCHEDULE AND ELEVATIONS, CAST STONE PROFILES AND WINDOW TYPES	
AE640	MOUNTING HEIGHTS	

SHEET INDEX - INTERIOR		BD DOCUMENTS 08/04/2020
SHEET NO.	SHEET TITLE	
AF101	FINISH PLANS	
AF102	GROUND LEVEL WALL PROTECTION PLAN	
AF100	ROOM FINISH SCHEDULE AND INTERIOR FINISH DETAILS	
AW101	GROUND LEVEL WAYFINDING PLAN	
AW101	WAYFINDING MESSAGE SCHEDULES & SIGNAGE DETAILS	

SHEET INDEX - EQUIPMENT		
SHEET NO.	SHEET TITLE	3-D DOCUMENTS 38/M/2022
QH101	GROUND LEVEL EQUIPMENT PLAN & SCHEDULE	
QH411	ENLARGED EQUIPMENT PLAN & SCHEDULE	

SHEET INDEX - FIRE PROTECTION		S&B DOCUMENTS/S&B/C/202
SHEET NO.	SHEET TITLE	
FP000	FIRE PROTECTION COVERSHEET	
FP101	GROUND LEVEL FLOOR PLAN - FIRE PROTECTION	
FP111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - FIRE PROTECTION	
FP402	FIRE PROTECTION DETAILS	
FPD101	GROUND LEVEL DEMOLITION PLAN - FIRE PROTECTION	

SHEET INDEX - MECHANICAL		BO DOCUMENTS 08/04/2022
SHEET NO.	SHEET TITLE	
MC000	CONTROLS COVER SHEET	
MC101	GROUND LEVEL FLOOR PLAN - CONTROLS	
MC102	FIRST LEVEL FLOOR PLAN - ROOM PRESSURIZATION PLAN	
MC111	INTERSTITIAL FIRST LEVEL FLOOR PLAN - CONTROLS	
MC121	ROOF PLAN - CONTROLS	
MC400	CONTROL DIAGRAMS	
MC401	CONTROL DIAGRAMS	
MC402	CONTROL DIAGRAMS	
MC403	CONTROL DIAGRAMS	
MC404	CONTROL DIAGRAMS	
MP000	PIPING COVER SHEET	
MP091	PIPE BASEMENT FLOOR PLAN - PIPING	
MP101	GROUND LEVEL FLOOR PLAN - PIPING	
MP111	INTERSTITIAL FIRST LEVEL FLOOR PLAN - PIPING	
MP121	ROOF PLAN - PIPING	
MP400	PIPING DETAILS	
MP401	PIPING DETAILS	
MP500	STEAM FLOW DIAGRAM	
MP501	HEATING WATER FLOW DIAGRAM	
MP502	CHILLED WATER FLOW DIAGRAM	
MP600	PIPING SCHEDULES	
MPD091	PIPE BASEMENT DEMOLITION PLAN - PIPING	
MPD101	GROUND LEVEL FLOOR DEMOLITION PLAN - PIPING	
MPD111	FIRST LEVEL DEMOLITION PLAN - PIPING	
MPD151	FIFTH LEVEL DEMOLITION PLAN - PIPING	
MV000	VENTILATION COVER SHEET	
MV091	PIPE BASEMENT FLOOR PLAN - VENTILATION	
MV101	GROUND LEVEL FLOOR PLAN - VENTILATION	
MV111	INTERSTITIAL FIRST LEVEL FLOOR PLAN - VENTILATION	
MV121	ROOF PLAN - VENTILATION	
MV400	VENTILATION ENLARGED PLANS	
MV401	VENTILATION ENLARGED PLANS	
MV402	VENTILATION DETAILS	
MV403	VENTILATION DETAILS	
MV404	VENTILATION DETAILS	
MV600	VENTILATION SCHEDULES	
MVD091	PIPE BASEMENT DEMOLITION PLAN - VENTILATION	
MVD102	GROUND LEVEL FLOOR DEMOLITION PLAN - VENTILATION	
MVD112	FIRST LEVEL DEMOLITION PLAN - VENTILATION	

SHEET INDEX - PLUMBING		300 DOCUMENTS 08/03/2022
SHEET NO.	SHEET TITLE	
PL000	PLUMBING COVERSHEET	
PL100	PIPE BASEMENT AND UNDERFLOOR - PLUMBING	
PL101	GROUND LEVEL FLOOR PLAN - PLUMBING	
PL111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - PLUMBING	
PL121	ROOF PLAN - PLUMBING	
PL300	PLUMBING ENLARGED PLANS	
PL400	PLUMBING DETAILS	
PL401	PLUMBING DETAILS	
PL500	PLUMBING FLOW DIAGRAMS	
PL600	PLUMBING MATERIAL LISTS	
PLD100	PIPE BASEMENT DEMOLITION PLAN - PLUMBING	
PLD101	GROUND LEVEL FLOOR DEMOLITION PLAN - PLUMBING	
PLD111	FIRST LEVEL DEMOLITION PLAN - PLUMBING	

SHEET INDEX - ELECTRICAL			BID DOCUMENTS: 06-04-2022
SHEET NO.	SHEET TITLE		
E000	ELECTRICAL COVERSHEET		
E400	ELECTRICAL DETAILS		
E401	ELECTRICAL DETAILS		
E402	ELECTRICAL DETAILS		
E500	ELECTRICAL ONE-LINE DIAGRAMS		
E501	ELECTRICAL ONE-LINE DIAGRAMS		
E600	ELECTRICAL SCHEDULES		
E601	ELECTRICAL SCHEDULES		
ED101	GROUND LEVEL FLOOR DEMOLITION PLAN - ELECTRICAL		
ED121	ROOF DEMOLITION PLAN - ELECTRICAL		
EL101	GROUND LEVEL FLOOR PLAN - LIGHTING		
EL111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - LIGHTING		
EP101	GROUND LEVEL FLOOR PLAN - POWER		
EP102	PARTIAL GROUND LEVEL FLOOR PLAN - POWER		
EP111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - POWER		
EP121	ROOF PLAN - POWER		
EP151	FIFTH LEVEL FLOOR PLAN - POWER		
ES-100	NEW ELECTRICAL SITE PLAN		
FA001	ELECTRICAL FIRE ALARM COVERSHEET		
FA101	GROUND LEVEL FLOOR PLAN - FIRE ALARM		
FA111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - FIRE ALARM		


SHEET INDEX - TECHNOLOGY			BID DOCUMENTS 08/04/2022
SHEET NO.	SHEET TITLE		
T000	TECHNOLOGY COVERSHEET		
T101	GROUND LEVEL FLOOR PLAN - TECHNOLOGY		
T400	TECHNOLOGY DETAILS		
T500	TECHNOLOGY RISER DIAGRAMS		
T600	TECHNOLOGY SCHEDULES		
TD101	GROUND LEVEL FLOOR DEMOLITION PLAN - TECHNOLOGY		

[illegible]

CONSULTANT

 **IMEG**

ARCHITECT/ENGINEER OF RECORD  <div style="text-align: center; font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">  <span style="font-family: sans-serif;">ANDERSON</span> </div> <p style="font-size: 0.8em; margin-top: 10px;">             13605 1st Ave. N. #100 Plymouth, MN 55441              P 763.412.4000   F 763.412.4090   <a href="http://ae-mn.com">ae-mn.com</a>              Anderson Engineering of Minnesota, LLC   <a href="#">Proj #</a> 16584         </p>	STAMP  <div style="text-align: center;">  </div> <p style="font-size: 0.8em; margin-top: 10px;">             DATE: 06/04/2022         </p>
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	<p>Approved:</p>

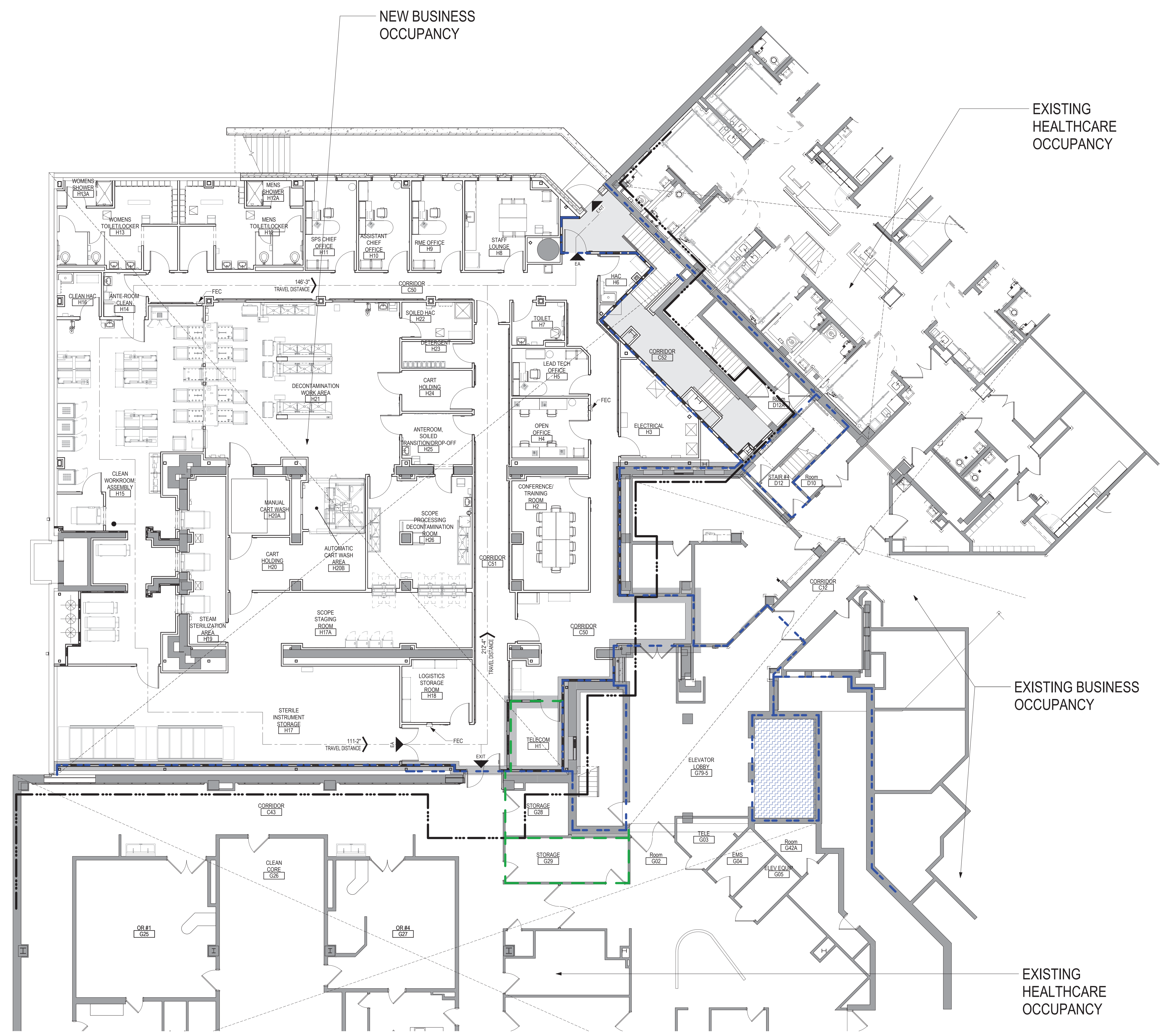
Phase  BID DOCUMENTS	Project Title  CONSTRUCT NEW SPS		Project Number 438-460
			Building Number 5
FULLY SPRINKLERED	Location Sioux Falls, SD.		Drawing Number
	Issue Date 08/04/2022	<div> <div>Checked</div> <div>Author</div> </div>	G1001



ARCHITECTURAL ABBREVIATIONS

A/C	AIR CONDITION	CNR	CORNER	F	FAHRENHEIT OR FEMALE	HST	HOIST	N	NORTH	RC	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	RCVR	RECEIVER	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	COL	CARBON DIOXIDE	FACIL	FACILITY	HVY	HEAVY	NC	NOISE CRITERIA OR NURSE CALL	REC	RECESSED	TECH	TECHNICAL
AB	ANCHOR BOLT	COM	COMMON	FAS	FASCIA	HW	HOT WATER	NCOMBL	NONCOMBUSTIBLE	RECD	RECEIVED	TEL	TELEPHONE
ABC	AGGREGATE BASE COURSE	COMB	COMBINATION, COMBINED	FAS BD	FASCIA BOARD	HYD	HYDRANT	NEC	NATIONAL ELECTRICAL CODE	RECPT	RECEPTACLE	TEMP	TEMPERATURE OR TEMPORARY
ACC	ACCESSIBLE	COMM	COMMUNICATION	FCU	FAN COIL UNIT	HYDR	HYDRAULIC	NEG	NEGATIVE	RECT	RECTANGLE	THERM	THERMAL
ACI	AMERICAN CONCRETE INSTITUTE	COMP	COMPONENT	FCO	FLOOR CLEANOUT	IAQ	INDOOR AIR QUALITY	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN	REF	REFERENCE OR REFRIGERATOR	THK	THICKNESS
ACT	ACOUSTICAL CEILING TILE	CONC	CONCRETE	FCTY	FACTORY	IBC	INTERNATIONAL BUILDING CODE	NEUT	NEUTRAL	REFR	REFRACTORY, REFRIGERATION	THRES	THRESHOLD
ACS DR	ACCESS DOOR	CONC FLR	CONCRETE FLOOR	FD	FLOOR DRAIN	IC	INFECTION CONTROL	NFC	NATIONAL FIRE CODE	REG	REGISTER	THRU	THROUGH
ACS FLR	ACCESS FLOOR	COND	CONDENSER OR CONDITION	FDC	FIRE DEPARTMENT CONNECTION	ICW	INFECTION CONTROL WALL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	REINF	REINFORCE	THRUOUT	THROUGHOUT
ACS PNL	ACCESS PANEL	CONF	CONFERENCE	FDTN	FOUNDATION	ID	INSIDE DIAMETER	NIC	NOT IN CONTRACT	REPR	REPAIR	TMPD	TEMPERED
ACST	ACOUSTIC	CONN	CONNECT	FE	FIRE EXTINGUISHER	ID NO	IDENTIFICATION NUMBER	NO	NUMBER	REPL	REPLACE	TMPD GL	TEMPERED GLASS
AD	AREA DRAIN	CONN	CONNECT	FEC	FIRE EXTINGUISHER CABINET	ILLUM	ILLUMINATION	NR	NOMINAL	REQ	REQUIRE	TNP	TRUE NORTH
ADA	AMERICANS WITH DISABILITIES ACT	CONSTR	CONSTRUCTION	FF	FINISH FACE	INCL	INCLUDED	NOM	NOISE REDUCTION	REQD	REQUIRED	TO	TOP OF
ADC	AUTOMATIC DOOR CLOSER	CONT	CONTINUE	FF EL	FINISH FLOOR ELEVATION	IND	INDEPENDENT OR INDUSTRIAL	NR	NOISE REDUCTION COEFFICIENT	RET	RETURN	TO FDN	TOP OF FOUNDATION
ADDL	ADDITIONAL	CONTR	CONTRACTOR	FFE	FURNITURE, FIXTURE, AND EQUIPMENT	INFO	INFORMATION	NRC	NATIONAL ROOFING CONTRACTORS ASSOCIATION	REV	REVISION	TOB	TOP OF BEAM
ADDN	ADDITION	COORD	COORDINATE	FHC	FIRE HOSE CABINET	INSUL	INSULATION	NRP	NONREMOVABLE	RFG	ROOFING	TOM	TOP OF MASONRY
ADH	ADHESIVE	CORR	CORRIDOR	FHP	FULL HEIGHT PARTITION	INT	INTERIOR	NS	NARROW STYLE	RFI	REQUEST FOR INFORMATION	TOP	TOP OF PARAPET
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE	CPM	CRITICAL PATH METHOD	FIG	FIGURE	INTL	INTERNATIONAL	NUM	NUMERAL	RFP	REQUEST FOR PROPOSAL	TOS	TOP OF STEEL
ADMIN	ADMINISTRATION	FIL	COMPRESSIBLE	FIN	FINISH	INTL	INTERNATIONAL	O/O	OUT TO OUT	RFS	ROOM FINISH SCHEDULE	TOW	TOP OF WALL
AFF	ABOVE FINISHED FLOOR	CR	CARD READER	FIN FLR	FINISH FLOOR	JAN	JANITOR	O	OXYGEN	RL	ROOF LEADER	TPD	TOILET PAPER DISPENSER
AFG	ABOVE FINISHED GRADE	CRS	COLD ROLLED STEEL	FIN GR	FINISH GRADE	KD	KILN DRIED OR KNOCKED DOWN	OA	OUTSIDE AIR OR OVERALL	RLG	RAILING	TRANS	TRANSOM
AFS	ABOVE FINISHED SLAB	CRSI	CONCRETE REINFORCING STEEL INSTITUTE	FIN WD	FINISH WOOD	KIT	KITCHEN	OC	ON CENTER	RM	ROOM	TRTD	TREATED
AGC	ASSOCIATED GENERAL CONTRACTORS	CSB	CONCRETE SPLASH BLOCK	FIXT	FIXTURE	KO	KNOCKOUT	OCC	OCCUPY	RM LT	NURSE CALL LIGHT/ROOM LIGHT	TS	TUBE STEEL
AGGR	AGGREGATE	CSG	CASING	FL	FLOORLINE	KPL	KICKPLATE	OCT	OCTAGON	RND	ROUND	TSTAT	THERMOSTAT
AHJ	AUTHORITY HAVING JURISDICTION	CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	FLASH	FLASHING	L	ANGLE	OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION	RO	ROUGH OPENING	TV	TELEVISION
AHR	ANCHOR	CSK	COUNTER SUNK	FLOD	FOLDING	LAD	LADDER	OD	OUTSIDE DIAMETER/OUTSIDE DIMENSION	ROW	RIGHT OF WAY	TYP	TYPICAL
AHU	AIR HANDLING UNIT	CSMT	CASEMENT	FLEX	FLEXIBLE	LAM	LAMINATE	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED	RS	ROUGH SAWN	U	HEAT TRANSFER COEFFICIENT
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CSWK	CASEWORK	FLG	FLOORING	LAM GL	LAMINATED GLASS	OFD	OVERFLOW DRAIN	RSV	RESILIENT SHEET VINYL	UC	UNDERCUT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CTG	COATING	FLR	FLOOR	LAU	LAUNDRY	OFF	OFFICE	RT	RIGHT	UGND	UNDERGROUND
ALT	ALTERNATE	CTR	CENTER	FLR FIN	FLOOR FINISH	LAV	LAVATORY	OFFO	OWNER FURNISHED/OWNER INSTALLED	RV	ROOF VENT	UL	UNDERWRITERS LABORATORIES
ALT NO	ALTERNATE NUMBER	CTRL	CONTROL	FLR SK	FLOOR SINK	LBR	LUMBER	OH	OVERHANG	RVS	REVERSE	ULT	ULTIMATE
ALUM	ALUMINUM	CTV	CABLE TELEVISION	FLUR	FLOURESCENT	LBS	POUND	OH DR	OVERHEAD (COILING) DOOR	RWL	RAIN WATER LEADER	UNFIN	UNFINISH
AMT	AMOUNT	CU FT	CUBIC FEET	FLUR FIX	FLOURESCENT FIXTURE	LCS	LOCKABLE CHARTING STATION/MED CABINET	OPH	OPPOSITE HAND	SA	SOLID SURFACE	UNO	UNLESS NOTED OTHERWISE
ANOD	ANODIZE	CU IN	CUBIC INCH	FM	FACTORY MUTUAL	LD SRG	LOAD-BEARING	OPNG	OPENING	S	SUPPLY AIR	UPS	UNINTERRUPTIBLE POWER SUPPLY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CU YD	CUBIC YARD	FW-G	FACTORY MUTUAL GLOBAL	LDR	LEADER	OPP	OPPOSITE	SALV	SALVAGE	URN	URNAL
ANT	ANTENNA	CURT	CURTAIN	FW-L	FINISHED OPENING	LED	LIGHT EMITTING DIODE	OPR	OPERABLE	SAMP	SAMPLE	UTIL	UTILITY
AP	ACCESS PANEL	CYL	CYLINDER	CYL L	CYLINDER LOCK	LF	LINEAR FEET (FOOT)	OPT	OPTIONAL	SAN	SANITARY	UV	ULTRAVIOLET
APA	AMERICAN PLYWOOD ASSOCIATION	D	DEPTH OR PENNY (NAIL)	FOC	FACE OF CONCRETE OR FACE OF CURB	LIB	LIBRARY	OR	OPERATING ROOM OR OUTSIDE RADIUS	SB	SPLASH BLOCK	VAC	VACUUM
APC	ARCHITECTURAL PRECAST CONCRETE	DAT	DATUM	FOD	FACE OF FINISH	LIN	LINEAR	ORD	ORDNANCE OR OVERFLOW ROOF DRAIN	SBS	STYRENE BUTADIEN STYRENE	VAR	VARIES
APPD	APPROVED	DBL	DOUBLE	FOM	FACE OF MASONRY	LIQ	LIQUID	ORG	ORGANIC	SBSTR	SUBSTRATE	VEH	VEHICLE
APPROX	APPROXIMATE	DBL GLZ	DOUBLE GLAZE	FOUNT	FACE OF SLAB OR FACE OF STUD	LKR	LOCKER	ORIG	ORIGINAL	SC	SHARPS CONTAINER	VENT	VENTILATION
AR	ARCHITECT	DCS	DIAPER CHANGING STATION	FOV	FACE OF WALL	LKR RM	LOCKER ROOM	ORN	ORNAMENTAL	SCH	SCHOOL	VERT	VERTICAL
ASB	ASBESTOS	DEC	DECORATIVE PANEL	FR	FIRE PROTECTION OR FIREPROOF	LI	LEAD LINED	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	SCHED	SCHEDULE	VEST	VESTIBULE
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	DEG	DEGREE	FR	FIRE RATING, FIRE RESISTANT, OR FRAME	LMST	LIMESTONE	OUT	OUTLET	SCHEM	SCHEMATIC	VFD	VARIABLE FREQUENCY DRIVE
ASKLR	AUTOMATIC SPRINKLER	DEL	DELETE	FR SNK	FLUSHING RIM SINK	LRG	LARGE	OZ	OUNCE	SCP	SCUPPER	VIC	VICINITY
ASPH	ASPHALT	DEMO	DEMOLITION	FREQ	FREQUENCY	LRV	LOUVERED ROOF VENT	P	PAINT	SCRN	SCREEN	VID	VIDEO
ASSN	ASSOCIATION	DEPT	DEPARTMENT	FRMG	FRAMING	LS	LIGHT SWITCH	PAR	PARALLEL OR PARAPET	SCT	SHOWER CURTAIN TRACK	VIF	VERIFY IN FIELD
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DET	DETAIL	FRP	FIBERGLASS REINFORCED PLASTIC	LT	LIGHT	PARA	PARAGRAPH	SCWD	SOLID CORE WOOD DOOR	VNR	VENEER
ATM	AUTOMATIC TELLER MACHINE	DF	DRINKING FOUNTAIN	FRZ	FREEZER	LT GA	LIGHT GAGE	PART	PARTIAL	SD	SMOKE DETECTOR/SOAP DISPENSER	VOC	VOLATILE ORGANIC COMPOUND
AUTO	AUTOMATIC	DIA	DIAMETER	FS	FEDERAL SPECIFICATION	LT WT	LIGHTWEIGHT	PAT	PATTERN	SDG	SIDING	VOL	VOLUME
AUX	AUXILIARY	DIAG	DIAGONAL	FSB	FOLDING SHOWER BENCH	LTG	LIGHTING	PB	PUSHBUTTON	SECT	SECTION	VIA	VAPOR RETARDER
AV	AUDIO VISUAL	DIFF	DIFFERENCE OR DIFFUSER	FSTNR	FASTENER	LTNG	LIGHTNING	PBD	PARTICLEBOARD	SECT	SECTION	VTR	VENT THROUGH ROOF
AVG	AVERAGE	DIM	DIMENSION	FT	FEET OR FOOT	LVD	LOUVERED	PC	PIECE, POLYCARBONATE OR PORTLAND CEMENT	SEL	SELECT	W	WITH
AW	ACID WASTE	DIR	DIRECTION	FTG	FOOTING	LVR	LOUVER	PC	PORTLAND CEMENT ASSOCIATION	SEP	SEPARATE	W/O	WITHOUT
AWI	ARCHITECTURAL WOODWORKING INSTITUTE	DISP	DISPENSER	FURG	FURRING	LWC	LIGHTWEIGHT CONCRETE	PCA	PRECAST CONCRETE	SF	SQUARE FOOT (FEET)	WBL	WOOD BLOCKING
AWPA	AMERICAN WOOD PRESERVERS' ASSOCIATION	DIST	DISTANCE	FURN	FURNISH OR FURNITURE	LWC	LIGHTWEIGHT INSULATING CONCRETE	PCC	CONCRETE PAVEMENT	SFTWD	SOFTWOOD	WC	WATER CLOSET
AWSS	AMERICAN WELDING SOCIETY	DIV	DIVIDE OR DIVISION	FUT	FUTURE	LWC	LIGHTWEIGHT INSULATING CONCRETE	PCCP	CONCRETE PAVEMENT	SGD	SLIDING GLASS DOOR	WD	WOOD
B PL	BASE PLATE	DIV	DIVIDE OR DIVISION	FUT	FUTURE	LVR	LAYER	PCF	POUNDS PER CUBIC FOOT	SGL	SINGLE	WDW	WINDOW
BAT	BATTEN	DL	DEAD LOAD	FVC	FIRE VALVE CABINET	MACH	MACHINE	PCP	PORTLAND CEMENT PLASTER	SHR	SHOWER	WF	WIDE FLANGE
BD	BOARD	DOC	DOCUMENT	GA	GAGE OR GYPSUM ASSOCIATION	MACH RM	MACHINE ROOM	PCT	PORTLAND CEMENT PLASTER	SHR HD	SHOWER HEAD	WFR	WOOD FRAME
BD FT	BOARD FEET (FOOT)	DR	DOOR, DRAIN, DRESSING ROOM, OR DRIVE	GALL	GALLON	MAINT	MAINTENANCE	PE	PEDESTAL	SHRD	SHOWER DRAIN	WFS	WOOD FURRING STRIPS
BEV	BEVEL	DR CL	DOOR CLOSER	GALV	GALVANIC OR GALVANIZED	MAN	MANUAL	PED	PEDESTAL	SHT	SHEET	WH	WATER HEATER
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION	DR FR	DOOR FRAME	GALV STL	GALVANIZED STEEL	MAT	MATERIAL	PEN	PENETRATE	SHTG	SHEATHING	WHSE	WAREHOUSE
BI FLD DR	BIFOLDING DOORS	DR OPNG	DOOR OPENING	GB	GRAB BAR	MATV	MASTER ANTENNA TELEVISION SYSTEM	PEND	PENDANT	SHV	SHELVING	WP	WATERPROOFING
BTUM	BITUMINOUS	DS	DOWNSPOUT	GC	GENERAL CONTRACTOR	MAX	MAXIMUM	PERF	PERFORATED	SIM	SIMILAR	WPM	WATERPROOF MEMBRANE
BKG	BACKING	DSGN	DESIGN	GD	GUARD	MBD	MARKER BOARD	PERM	PERIMETER	SJ	SCORED JOINT	WR	WEATHER RESISTANT
BLD	BUILD	DW	DISHWASHER	GEN	GENERAL OR GENERATOR	MCB	METAL CORNER BEAD	PERP	PERPENDICULAR	SJ	SCORED JOINT	WS	WEATHERSTRIP OR WALL SCONCE
BLDG	BUILDING	DWG	DRAWING	GEN	GENERAL OR GENERATOR	MD	DECK	PHAR	PHARMACY	SK	SKETCH	WSCT	WAINSCOT
BM	BEAM OR BENCHMARK	E	EAST	GFRG	GLASS-FIBER-REINFORCED CONCRETE	ME	MECHANICAL ENGINEER	PHOTO	PHOTOGRAPH	SKLT	SKYLIGHT	WT	WEIGHT OR WINDOW TREATMENT
BOT	BOTTOM	EA	EACH	GFRG	GLASS-FIBER-REINFORCED GYPSUM	MEAS	MEASURE	PKG	PACKAGE	SLDG	SLIDING	X	CROSS BRACE
BRCG	BRACING	EFF	EFFICIENCY	GFRP	GLASS-FIBER-REINFORCED PLASTIC	MECH	MECHANICAL	PL	PROPERTY LINE	SLNT	SLANT	XPS	EXTRUDED POLYSTYRENE BOARD
BRDG	BRIDGING	EFS	EXTERIOR FINISH SYSTEM	GI	GALVANIZED IRON	MECH RM	MECHANICAL ROOM	PL GL	PLATE GLASS	SM	SHEET METAL	YD	YARD
BRDG JST	BRIDGING JOIST	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	GL	GLASS	MED	MEDICAL, MEDIUM	PLAM	PLASTER LAMINATE	SMK	SMOKE		
BRG	BEARING	EJ	EXPANSION JOINT	GL BLK	GLASS BLOCK	MEK	METHYL ETHYL KETONE	PLAS	PLASTER OR PLASTIC	SND INS	SOUND INSULATION		
BRG PL	BEARING PLATE	EL	ELEVATION	GLU LAM	GLUED LAMINATED WOOD	MEMB	MEMBRANE	PLBG	PLUMBING	SPEC	SPECIFICATION		
BRKT	BRACKET	ELAST	ELASTOMERIC	GR	GRAB BAR	MEMO	MEMORANDUM	PMTL	PAINTED METAL	SPKLR	SPRINKLER		
BRZ	BRONZE	ELEC	ELECTRIC	GR FL	GROUND FLOOR	MEZZ	MEZZANINE	PNEU	PNEUMATIC	SPKR	SPEAKER		
BSMT	BASEMENT	ELEC DR	ELECTRIC DOOR OPENER	GRAN	GRANITE	MFG	MANUFACTURED	PNL	PANEL	SPLY	SUPPLY		
BTWN	BETWEEN	ELEV	ELEVATOR	GRTG	GRATING	MFG	MANUFACTURING	PO	POST OFFICE, PURCHASE ORDER	SPR	SINGLE PLY ROOF SYSTEM		
BUR	BUILT-UP ROOFING	EMER	EMERGENCY	GSB	GYPSUM SHEATHING BOARD	MFR	MANUFACTURER	POLY	POLYETHYLENE (PLASTIC)	SQ	SQUARE		
C CONC	CAST CONCRETE	EMER SHR	EMERGENCY SHOWER	GSM	GALVANIZED SHEET METAL	MFR REC	MANUFACTURER'S RECOMMENDATION	PUSH	PUSH PLATE	SQ IN	SQUARE INCH		
C TO C	CENTER TO CENTER	ENCL	ENCLOSURE	GSU	GLAZED STRUCTURAL UNIT	MGT	MANAGEMENT	PR	PAIR	SQ YD	SQUARE YARD		
CAB	CABINET	ENGR	ENGINEER	GT	GROUT	MIC	MICROPHONE	PRCST	PRECAST	SST	STAINLESS STEEL		
CAC	CEILING ATTENUATION CLASS	ENVR	ENVIRONMENT	GUAR	GUARANTEE	MID	MIDDLE	PREFAB	PREFABRICATE	ST	STAIRS OR STREET		
CB	CATCH BASIN OR CORNER BEAD	EO	ELECTRICAL OUTLET	GUT	GUTTER	MIL STD	MILITARY STANDARD	PREFIN	PREFINISH	STC	SOUND TRANSMISSION CLASS		
CBB	CEMENTITIOUS (BACKER) BOARD	EPA	ENVIRONMENTAL PROTECTION AGENCY	GYP	GYPSUM	MIR	MIRROR	PRELIM	PRELIMINARY	STD	STANDARD		
CDD	CONSTRUCTION CHANGE DIRECTIVE	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	GYP BD	GYPSUM BOARD	MISC	MISCELLANEOUS	PREP	PREPARATION	STIF	STIFFENER		
CCTV	CLOSED CIRCUIT TELEVISION	EPO	EMERGENCY POWER OFF	GYP PLAS	GYPSUM PLASTER	MIT	MITER	PRESS	PRESSURE	STL JST	STEEL JOIST		
CW	COUNTERCLOCKWISE	EQ	EQUAL	H	HIGH OR HUMIDISTAT	MKR	MARKER	PREV	PREVIOUS	STL LNTL	STEEL LINTEL		
CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS	EQ SP	EQUALLY SPACED	HAZ MAT	HAZARDOUS MATERIALS	ML	METAL LATH	PRKG	PARKING	STL PL	STEEL PLATE		
CEM	CEMENT	EQUIP	EQUIPMENT	HB	HOSE BIBB	MLD	MOLDING (MOULDING)	PRMLD	PREMOLDED	STL RF DK	STEEL ROOF DECK		
CEM PLAS	CEMENT PLASTER	EQUIV	EQUIVALENT	HC	HOLLOW CORE	MLWK	MILLWORK	PROJ	PROJECT	STL TB	STEEL TUBE		
CER	CERAMIC	ERD	EXISTING ROOF DRAIN	HOWD	HOLLOW CORE WOOD DOOR	MM	MILLIMETER	PROP	PROPERTY	STL TR	STEEL TRUSS		
CF	CONTRACTOR FURNISHED	ESC	ESCAPE OR ESCUTCHEON	HDR	HEADER	MOD	MODEL, MODIFY OR MODULE	PSF	POUNDS PER SQUARE FOOT	STNS	STAINLESS		
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	ESMT	EASEMENT	HDR	HEADER	MOD BIT	MODIFIED BITUMEN	PT	PORCELAIN TILE OR PRESSURE TREATED	STR	STRINGERS		
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	EST	ESTIMATE	HDW	HARDWARE	MON	MONITOR	PTD	PAPER TOWEL DISPENSER	STRUCT	STRUCTURAL		
CFLG	COUNTERFLASHING	ETC	AND SO FORTH OR ET CETERA	HOWD	HOLLOW CORE WOOD DOOR	MOPR	MOP RACK	PTS	PARTITION	STRUCT STL	STRUCTURAL STEEL		
CFMF	COLD-FORMED METAL FRAMING	EW	EACH WAY	HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)	MR	MOISTURE RESISTANT	PVC	POLYVINYL CHLORIDE (PLASTIC)	SUB	SUBSTITUTE		
CG	CORNER GUARD	EWC	ELECTRIC WATER COOLER	HEX	HEXAGON	MS	MOP SINK	PVG	PAVING	SURF	SURFACE		
CGSFU	CERAMIC GLAZED STRUCTURAL FACING UNITS	EWS	EYE WASH STATION	HGR	HANGER	MTD	MOUNTED	PWR	POWER	SUSP	SUSPEND		
CH	COAT HOOK	EXH	EXHAUST	HMD	HOLLOW METAL	MTG	MOUNTING	QA	QUALITY ASSURANCE	SUSP CLG	SUSPENDED CEILING		
CHEM	CHEMICAL	EXIST	EXISTING	HMD	HOLLOW METAL DOOR	MTL	METAL	QC	QUALITY CONTROL	SW	SWITCH		
CHFR	CHAMFER	EXP	EXPANSION OR EXPOSED	HMD	HOLLOW METAL DOOR AND FRAME	MULL	MULLION	QRY	QUARRY	SWDR	SWING DOOR		
CHK	CHECK	EXP BT	EXPANSION BOLT	HNDL	HANDRAIL	MW	MICROWAVE	QTR	QUARTER	SYM	SYMBOL		
CI	CAST IRON	EXST GR	EXISTING GRADE	HO	HOLD OPEN	MWP	MEMBRANE WATERPROOFING	QTY	QUANTITY	SYNTH	SYNTHETIC		
CIP	CAST-IN-PLACE	EXT	EXTERIOR, EXTERNAL, OR EXTINGUISHER	HORIZ	HORIZONTAL			QUAD	QUADRANT	SYS	SYSTEM		
CIRC	CIRCULAR	HOSP	HOSPITAL	HP	HIGH PRESSURE			QUAL	QUALITY				
CJ	CONSTRUCTION JOINT OR CONTROL JOINT	HPD	HIGH PRESSURE	HPD	HIGH PRESSURE PRODUCT DISPOSAL			R	RADIUS OR RISER				
CL	CENTER LINE	HPDL	HIGH PRESSURE DECORATIVE LAMINATE	HQ	HEADQUARTERS			RA	RETURN AIR				
CLDG	CLADDING	HS	HEAT-STRENGTHENED (GLASS) OR HIGH STRENGTH	HSE	HOUSE			RAD	RADIATOR				
CLG													





CODE SUMMARY	
PROJECT DESCRIPTION	
ADDITION TO AND REMODELING OF BUILDING 5 FOR STERILE PROCESSING SERVICE LINE.	
GENERAL TYPE OF PROJECT	
NEW BUILDING	YES NO
ADDITION	YES NO
REMODEL	YES NO
PHYSICAL SECURITY AND RESILIENCY CLASSIFICATION OF PROJECT	
MISSION CRITICAL (MC)	YES NO
LIFE-SAFETY PROTECTED (LSP)	YES NO
LIFE-SAFETY PROTECTED (LSP) WITH MC UTILITIES / SYSTEMS REDUNDANCIES	YES NO
AUTHORITIES HAVING JURISDICTION (AHJ's)	
THE JOINT COMMISSION (TJC)	YES NO
VETERANS ADMINISTRATION (VA)	YES NO
APPLICABLE REGULATIONS	
2021 NFPA 101 (LIFE SAFETY CODE)	
2018 IBC	
ABA STANDARDS (2015) (ABAAS)	
VA BARRIER FREE DESIGN STANDARD (PG-18-13)	
NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 5000 & 900)	
2018 FGI GUIDELINES	
OSHA STANDARDS	
VA SEISMIC DESIGN REQUIREMENTS H-18-8	
NATIONAL ELECTRIC CODE (NEC)	
ASHRAE 90.1	
ASME BOILER AND PRESSURE VESSEL CODE	
ASME CODE FOR PRESSURE PIPING	
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND CONCRETE (ACI 318)	
MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)	
ENERGY POLICY ACT OF 2005 (EPAct)	
DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 10 CFR PARTS 433.434 AND 435	
FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU)	
EXECUTIVE ORDER 13834	
THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS, STATED IN THE GENERAL REQUIREMENTS SECTION 01010 OF THE VA MASTER CONSTRUCTION SPECIFICATION	
VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 55-2004	
SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15-2007	
VA FIRE PROTECTION DESIGN MANUAL	
VA PHYSICAL SECURITY AND RESILIENCY DESIGN MANUAL (2015)	
VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL)	

OCCUPANCY CLASSIFICATION(S)	
OCCUPANCIES (LSC CH 12-42)	BUSINESS YES NO
CHANGE OF OCCUPANCY? (If Remodeling)	YES NO
SEPARATED OCCUPANCIES? 2021 LSC (TABLE 6.1.14.1)	YES NO
FIRE BARRIER RATING(S) (Section 8.3) SEE LIFE SAFETY PLANS	
TYPE(S) OF CONSTRUCTION	
CONSTRUCTION TYPE(S) (NAPA 220 TABLE 4.1.1) II (222)	
AREA SEPARATIONS / FIRE WALLS SEE LIFE SAFETY PLANS	
EGRESS	
AREAS OF REFUGE REQUIRED	YES NO
ACCESSIBLE MEANS OF EGRESS ("MOE") REQUIRED	YES NO
ELEVATOR REQUIRED AS MEANS OF EGRESS	YES NO
MEANS OF EGRESS CAPACITY (width in inches) (Input)	
PLUMBING FIXTURES	
TOILETS	PROVIDED RQD FACTOR (BIC CH 29) 1/25 for first 50 occupants, then 1/50
URINALS	0 -- --
LAVATORIES	5 3 1/40 for first 50 occupants, then 1/80 1/100 occupants, 50% may be vending
DRINKING FOUNTAINS	1 1 --
SERVICE SINKS	3 1 --
FIRE-RESISTIVE REQUIREMENTS	
STRUCTURAL FRAME	RATING (HRS) TEST
COLUMNS	2HR ASTM E119
GIRDERS	2HR ASTM E119
TRUSSES	2HR ASTM E119
BEARING WALLS	
EXTERIOR BEARING WALLS	2HR ASTM E119
INTERIOR BEARING WALLS	2HR ASTM E119
NON-BEARING WALLS AND PARTITIONS	
EXTERIOR	0HR NA
INTERIOR	See Life Safety Plans
FLOOR CONSTRUCTION	
FLOOR/CEILING ASSEMBLY	2HR ASTM E119
PRIME & SEC. FLOOR BEAMS, JOISTS	1HR ASTM E119
ROOF CONSTRUCTION	
ROOF/CEILING ASSEMBLY	2HR ASTM E119
PRIME & SEC. ROOF BEAMS, JOISTS	2HR ASTM E119
OTHER	
SHAFTS AND EXIT PASSAGEWAYS	2HR ASTM E119
EXTERIOR DOORS AND WINDOWS	0HR NA
MISCELLANEOUS	
FIRE RESISTIVE CORRIDORS?	YES NO
SMOKE TIGHT CORRIDORS (SMOKE PARTITIONS)	YES NO
INCIDENTAL USE AREA RATING(S)	SEE PLANS
INTERIOR FINISHES CLASSIFICATION	EXITS A or B
EXIT ACCESS CORRIDORS	A or B
OTHER SPACES	A, B or C
ADDITIONAL NOTES	

LIFE SAFETY SYMBOLS			
	SMOKE TIGHT ASSEMBLY		1 HOUR FIRE & SMOKE BARRIER
	1 HOUR FIRE BARRIER		2 HOUR FIRE & SMOKE BARRIER
	2 HOUR FIRE BARRIER		3 HOUR FIRE & SMOKE BARRIER
	3 HOUR FIRE BARRIER		TRAVEL DISTANCE 100'-10'
	EXIT		EXIT DISCHARGE
	HORIZONTAL EXIT		EXIT ACCESS
	FIRE EXTINGUISHER		FIRE EXTINGUISHER CABINET
	LIMITS OF CONSTRUCTION		OCCUPANCY SEPARATION
	SMOKE COMPARTMENT BOUNDARY		HEALTH CARE SUITE
	SHAFT		HAZARDOUS USE
	EXIT PASSAGEWAY		CORRIDOR
	CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE		ADJUNCT CORRIDOR or PSYCHIATRIC AREA or CONSTRUCTED WITH MIN. 4'-0" CLEAR WITH (PER CHAPTER 19)
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN			

1 GROUND LEVEL FLOOR PLAN  
1/8" = 1'-0"

CONSULTANT		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
IMEG		ANDERSON		U.S. Department of Veterans Affairs		GROUND LEVEL LIFE SAFETY PLAN		BID DOCUMENTS		CONSTRUCT NEW SPS		438-460	
Revisions:		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 # 16584		U.S. Department of Veterans Affairs		Approved:		FULLY SPRINKLERED		Location Sioux Falls, SD.		Building Number 5	
Date:		DATE: 08/04/2022 License # 9335		U.S. Department of Veterans Affairs						Issue Date 08/04/2022		Drawing Number G1101	
										Checked Checker		Drawn Author	



A

B

C

D

E

F

A

B

C

D

E

F

### 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 OPERATIONS. 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 BARRIER(S) FROM FLOOR TO DECK/FLOOR ABOVE. EXCEPTION: IF BARRIER IS ADJACENT TO SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE DEMOLISHED AND TERMINATES TO FLOOR/DECK ABOVE, THEN CONSTRUCT DUST PROOF IC BARRIER. SEE DETAIL(S), 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 5:00 PM OR DIRECTED BY COR.
- DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS. MINIMUM (1) ONE IN AREAS 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 IS 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.

### CONSTRUCTION PHASING GENERAL NOTES

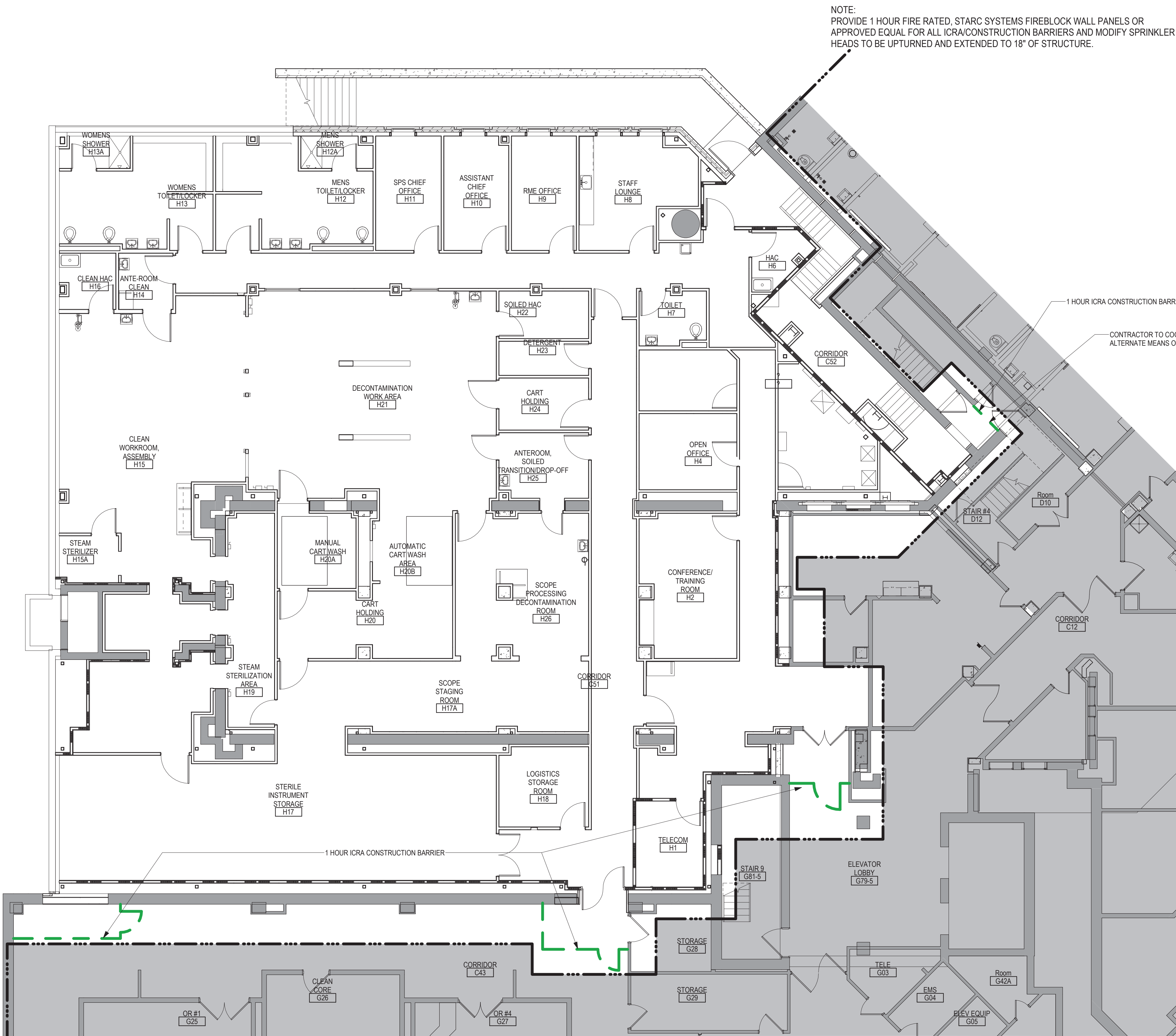
- THE WORK UNDER THIS CONTRACT SHALL BE DIVIDED INTO PHASES. A PHASE CAN INVOLVE MULTIPLE LOCATION AREAS. SEE SPECIFICATIONS SECTION 01 00 1.6 G PHASING.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING AND SEQUENCING WITH ALL TRADES AND THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE A WRITTEN NARRATIVE TO OUTLINE CONSTRUCTION PHASING AND SEQUENCE PLANS, VALIDATING AND ELABORATING ON THIS PHASING DESCRIPTION.
- 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.
- THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL INDICATE THE SEQUENCE, COMMENCEMENT AND COMPLETION DATES, OWNER INSPECTION AND APPROVAL DATES AND MOVE-OUT AND MOVE-IN DATES OF OWNERS PERSONNEL FOR ALL PHASES OF THE WORK.
- THE GENERAL CONTRACTOR SHALL PERFORM THE WORK IN EACH PHASE IN THE SEQUENCE SHOWN ON THE PHASING PLAN DRAWING(S) AND CONSTRUCTION PHASING DESCRIPTION.
- THE GENERAL CONTRACTOR MUST COMPLETE ALL WORK IN EACH PHASE WITH THE VA INSPECTING AND ACCEPTING THE WORK PRIOR TO VA OCCUPANCY AND THE CONTRACTOR PROCEEDING TO THE NEXT SCHEDULED PHASE. UPON COMPLETION OF A PARTICULAR PHASE, THE ENTIRE AREA COVERED BY THAT PHASE CAN BE OCCUPIED BY THE VA PERSONNEL WITH ALL SYSTEMS FUNCTIONING PROPERLY.
- BEFORE COMMENCING WORK ON EACH SUCCESSIVE PHASE, THE GENERAL CONTRACTOR SHALL SUBMIT AN UPDATED COPY OF THE SCHEDULE.
- ANY ICRA / CONSTRUCTION BARRIERS CONSTRUCTED BY THE CONTRACTOR PRIOR TO THE START OF DEMOLITION MUST REMAIN IN PLACE UNTIL THE COMPLETION OF THAT PHASE OR SUBSEQUENT PHASE WHERE REQUIRED.
- THE CONTRACTOR SHALL PERFORM ALL WORK ADJACENT TO VA OCCUPIED AREAS IN SUCH A MANNER TO ENSURE THE CONTINUOUS AND UNINTERRUPTED USE OF ALL OCCUPIED AREAS, INCLUDING THE APPLICABLE MECHANICAL AND ELECTRICAL SYSTEMS SERVING THESE AREAS.
- FOR ADDITIONAL NOTES AND INFORMATION REFER TO INFECTION CONTROL DRAWING(S) AND DEMOLITION PLANS.
- ANY INFORMATION REGARDING SEQUENCING PROVIDED IN THE DOCUMENTS IS FOR ARCHITECT-OWNER PLANNING PURPOSES ONLY.
- THE CONTRACTOR DURING CONSTRUCTION SHALL MAINTAIN REQUIRED MEANS OF EGRESS THROUGHOUT ALL PHASING.
- 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 FOLLOW-ON PHASES. THE VA WILL ACCURATE THIS TIME WHEN POSSIBLE AND WILL NOTIFY THE CONTRACTOR IF THIS OCCURS.

### CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA)

TYPE	DESCRIPTION	RISK GROUP	RISK LEVEL	REMARKS
TYPE A	INSPECTIONS AND NON-INVASIVE ACTIVITIES. INCLUDES, BUT NOT LIMITED TO: REMOVAL OF CEILING TILES FOR VISUAL INSPECTION LIMITED TO 1 TILE PER 50 SQUARE FEET, PAINTING BUT NOT SANDING WALL COVERING, ELECTRICAL TRIM WORK, MINOR PLUMBING, AND ACTIVITIES WHICH DO NOT GENERATE DUST OR REQUIRE CUTTING OF WALLS OR ACCESS TO CEILINGS OTHER THAN FOR VISUAL INSPECTION.	GROUP 1	LOW RISK	• MECHANICAL SPACES: AREAS NOT DIRECTLY ADJACENT TO PATIENT CARE, INCLUDING INTERSTITIAL SPACES. • ENGINEERING OR EMS OFFICE/WORK AREAS • OFFICE AREAS: AREAS NOT ATTACHED TO ADJOINING PATIENT CARE AREAS, NOT USED FOR PATIENT INTERVIEWS, EVALUATIONS OR EXAMINATIONS. • PUBLIC CORRIDORS: SPACES NOT ON OR DIRECTLY ATTACHED TO PATIENT UNITS OR TREATMENT LOCATIONS.
TYPE B	SMALL SCALE, SHORT DURATION ACTIVITIES WHICH CREATE MINIMAL DUST. INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION OF TELEPHONE AND COMPUTER CABLING, ACCESS TO CHASE SPACES, CUTTING OF WALLS OR CEILING WHERE DUST MIGRATION CAN BE CONTROLLED, FLOOR COVERING REMOVAL (WITHOUT SANDING OR GRINDING).	GROUP 2	MEDIUM RISK	• OUTPATIENT AREAS: 1. PRIMARY CARE OR SPECIALTY CARE CLINIC AREAS 2. BEHAVIORAL/MENTAL HEALTH AREAS 3. EXTENDED CARE / REHAB CLINIC AREAS 4. COMMUNITY-BASED OUTPATIENT CLINICS (CBOC'S)
TYPE C	ANY WORK THAT GENERATES A MODERATE TO HIGH LEVEL OF DUST OR REQUIRES DEMOLITION OR REMOVAL OF ANY FIXED BUILDING COMPONENTS OR ASSEMBLIES. INCLUDES, BUT IS NOT LIMITED TO, SANDING OF WALL FOR PAINTING OR WALLCOVERING, REMOVAL OF FLOOR COVERINGS, CEILING TILES AND CASEWORK, NEW WALL CONSTRUCTION, MINOR DUCTWORK OR ELECTRICAL WORK ABOVE CEILINGS, MAJOR CABLING ACTIVITIES, AND ANY ACTIVITY WHICH CANNOT BE COMPLETED WITHIN A SINGLE WORK SHIFT. FLOOR COVERING REMOVAL (WITH SANDING OR GRINDING).	GROUP 3	HIGH RISK	• INPATIENT UNITS: 1. INCLUDING, BUT NOT LIMITED TO: EMERGENCY DEPT., NURSING UNITS, RADIOLOGY/MR/CT/ULTRASOUND, NUCLEAR MEDICINE, CAFETERIA/KITCHEN/CANTEEN, LABORATORIES, RADIATION / ONCOLOGY, DIALYSIS
TYPE D	MAJOR DEMOLITION AND CONSTRUCTION PROJECTS. INCLUDES, BUT IS NOT LIMITED TO, ACTIVITIES WHICH REQUIRE CONSECUTIVE WORK SHIFTS, REQUIRE HEAVY DEMOLITION OR REMOVAL OF A COMPLETE CEILING SYSTEM, FLOORING AND NEW CONSTRUCTION.	GROUP 4	HIGHEST RISK	• ICU/SICU • ORIP/CA/ENDOSCOPY • GI • STERILE PROCESSING SERVICES (SPS) • PHARMACY • CATH LAB
CLASS I	KEEP AREAS FREE OF DEBRIS, TRASH. EXECUTE WORK TO MINIMIZE OF DUST MIGRATION (E.G. WET MOPPING, HEPA VACUUM) IMMEDIATELY REPLACE ANY CEILING TILE DISPLAYED FOR VISUAL INSPECTION (INVOLVING MINOR DEMOLITION IN MAINTENANCE OR REMODELING).			
CLASS II	SAME AS CLASS I PLUS: 1. ESTABLISH MATERIAL AND DEBRIS ROUTE USING NON-PATIENT/VISITOR PATHWAY 2. WATER MIST WORK SURFACE TO CONTROL DUST WHILE CUTTING OR DRILLING. 3. BLOCK OFF AND SEAL AIR VENTS 4. SEAL UNUSED DOORS WITH PLASTIC SHEATHING AND DUCT TAPE. 5. CREATE BARRIERS AS DEFINED BY INFECTION PREVENTION 6. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINER. TAPE COVERING UNLESS SOLID LID. 7. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA. 8. PLACE STICKY MAT AT ALL WORK AREA ENTRANCES AND EXITS. 9. REMOVE OR ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA			
CLASS III	SAME AS CLASS I AND II PLUS: 1. ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA TO PREVENT DUCT SYSTEM CONTAMINATION 2. COMPLETE CRITICAL BARRIERS (I.E. SHEETROCK, PLYWOOD, PLASTIC) AT ALL CONSTRUCTION ENTRIES AND EXITS; MONITOR FOR SEAL AND TAKE IMMEDIATE CORRECTIVE ACTION AS NEEDED 3. MAINTAIN AND MONITOR NEGATIVE AIR PRESSURE WITHIN CONSTRUCTION SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS. 4. REMOVE OR ISOLATE HVAC SYSTEMS IN AREA WHERE WORK IS BEING PERFORMED. 5. CHECK AND REPLACE AIR FILTERS AS NEEDED REGULARLY. 6. DO NOT REMOVE BARRIERS FROM WORK SITE UNTIL PROJECT IS COMPLETE & HAS BEEN THOROUGHLY CLEANED; REMOVE BARRIERS CAREFULLY TO MINIMIZE SPREADING DUST, DEBRIS. 7. VACUUM WORK WITH HEPA FILTERED VACUUM. 8. WET MOP AREA WITH CLEANER/DISINFECTANT. 9. MITIGATE VIBRATION AND NOISE TO LOWEST IMPACT WHERE POSSIBLE. 10. DISPLAY ICRA AT SITE 11. SEAL HOLES, PIPES, CONDUITS AND PUNCTURES.			
CLASS IV	SAME AS CLASS I, II AND III PLUS: 1. INSPECT ADJACENT AREAS FOR DUST MIGRATION; TAKE IMMEDIATE CORRECTIVE AS NEEDED 2. USE HEPA VACUUM IN AREA PRIOR TO START OF CONSTRUCTION 3. CONSTRUCT ANTE ROOM. ALL PERSONNEL MUST ENTER THROUGH IT TO BE VACUUMED USING HEPA VACUUM BEFORE LEAVING OR TO DON/DOFF PPE			

### INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE

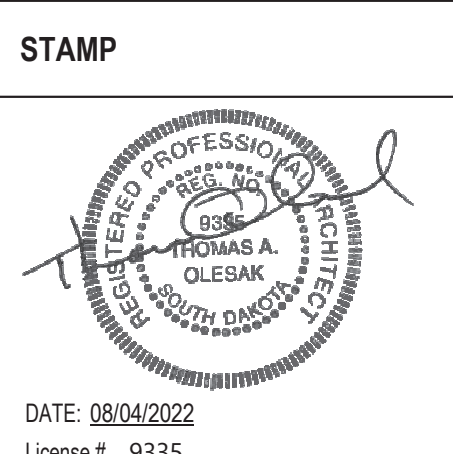
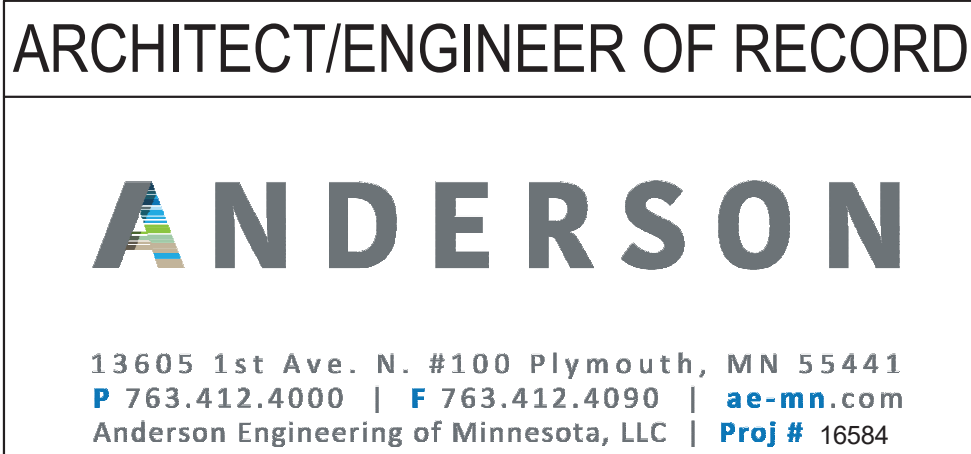
PHASE - ALL:  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
INFECTION CONTROL RISK GROUP - GROUP 4: HIGH RISK  
CONTROL PROCEDURE CLASS - IV



1 GROUND LEVEL FLOOR PLAN  
1/8\"/>

0 4' 8' 16'

Revisions:	Date:



Drawing Title	GROUND LEVEL INFECTION CONTROL & LIFE SAFETY PLAN
Approved:	

Phase	BID DOCUMENTS
FULLY SPRINKLERED	

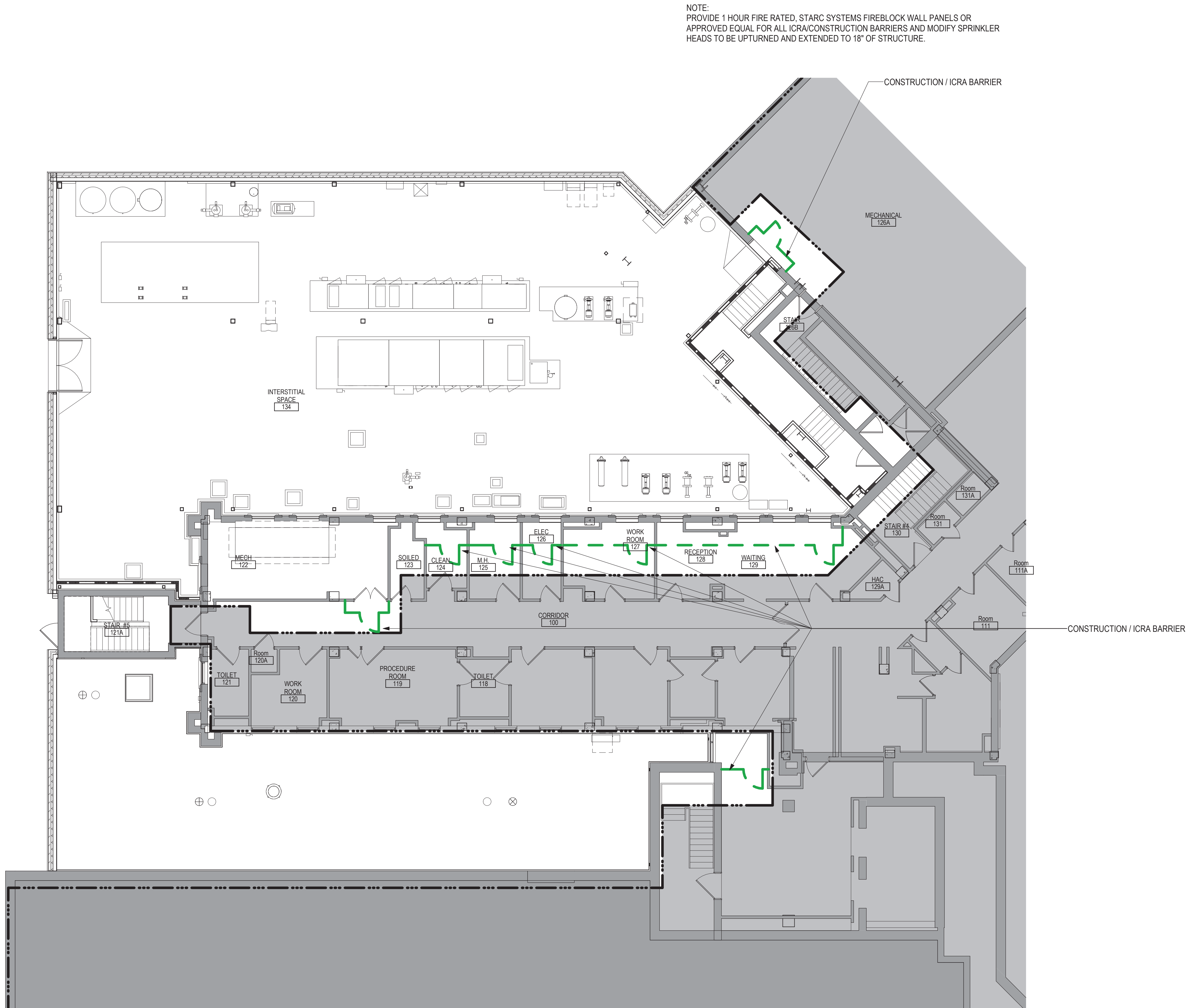
Project Title	CONSTRUCT NEW SPS
Location	Sioux Falls, SD.
Issue Date	08/04/2022
Checked	Checker
Drawn	Author

Project Number	438-460
Building Number	5
Drawing Number	GC101



GI111





### 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 OPERATIONS, 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 BARRIER(S) FROM FLOOR TO DECK/FLOOR ABOVE. EXCEPTION: IF BARRIER IS ADJACENT TO SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE DEMOLISHED AND TERMINATES TO FLOOR/DECK ABOVE, THEN CONSTRUCT DUST PROOF IC BARRIER. SEE DETAIL(S), 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 5:00 PM OR DIRECTED BY COR.
- DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS. MINIMUM (1) ONE IN AREAS 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 IS 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.

### CONSTRUCTION PHASING GENERAL NOTES

- THE WORK UNDER THIS CONTRACT SHALL BE DIVIDED INTO PHASES. A PHASE CAN INVOLVE MULTIPLE LOCATION AREAS. SEE SPECIFICATIONS SECTION 01 00 1.6 G PHASING.
- 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.
- 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.
- THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL INDICATE THE SEQUENCE, COMMENCEMENT AND COMPLETION DATES, OWNER INSPECTION AND APPROVAL DATES AND MOVE-OUT AND MOVE-IN DATES OF OWNERS PERSONNEL FOR ALL PHASES OF THE WORK.
- THE GENERAL CONTRACTOR SHALL PERFORM THE WORK IN EACH PHASE IN THE SEQUENCE SHOWN ON THE PHASING PLAN DRAWING(S) AND CONSTRUCTION PHASING DESCRIPTION.
- THE GENERAL CONTRACTOR MUST COMPLETE ALL WORK IN EACH PHASE WITH THE VA INSPECTING AND ACCEPTING THE WORK PRIOR TO VA OCCUPANCY AND THE CONTRACTOR PROCEEDING TO THE NEXT SCHEDULED PHASE. UPON COMPLETION OF A PARTICULAR PHASE, THE ENTIRE AREA COVERED BY THAT PHASE CAN BE OCCUPIED BY THE VA PERSONNEL WITH ALL SYSTEMS FUNCTIONING PROPERLY.
- BEFORE COMMENCING WORK ON EACH SUCCESSIVE PHASE, THE GENERAL CONTRACTOR SHALL SUBMIT AN UPDATED COPY OF THE SCHEDULE.
- ANY ICRA / CONSTRUCTION BARRIERS CONSTRUCTED BY THE CONTRACTOR PRIOR TO THE START OF DEMOLITION MUST REMAIN IN PLACE UNTIL THE COMPLETION OF THAT PHASE OR SUBSEQUENT PHASE WHERE REQUIRED.
- THE CONTRACTOR SHALL PERFORM ALL WORK ADJACENT TO VA OCCUPIED AREAS IN SUCH A MANNER TO ENSURE THE CONTINUOUS AND UNINTERRUPTED USE OF ALL OCCUPIED AREAS, INCLUDING THE APPLICABLE MECHANICAL AND ELECTRICAL SYSTEMS SERVING THESE AREAS.
- FOR ADDITIONAL NOTES AND INFORMATION REFER TO INFECTION CONTROL DRAWING(S) AND DEMOLITION PLANS.
- ANY INFORMATION REGARDING SEQUENCING PROVIDED IN THE DOCUMENTS IS FOR ARCHITECT-OWNER PLANNING PURPOSES ONLY.
- THE CONTRACTOR DURING CONSTRUCTION SHALL MAINTAIN REQUIRED MEANS OF EGRESS THROUGHOUT ALL PHASING.
- 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 FOLLOW-ON PHASES. THE VA WILL ACCELERATE THIS TIME WHEN POSSIBLE AND WILL NOTIFY THE CONTRACTOR IF THIS OCCURS.

### CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA)

TYPE A	INSPECTIONS AND NON-INVASIVE ACTIVITIES. INCLUDES, BUT NOT LIMITED TO: REMOVAL OF CEILING TILES FOR VISUAL INSPECTION LIMITED TO 1 TILE PER 50 SQUARE FEET, PAINTING BUT NOT SANDING WALL COVERING, ELECTRICAL TRIM WORK, MINOR PLUMBING, AND ACTIVITIES WHICH DO NOT GENERATE DUST OR REQUIRE CUTTING OF WALLS OR ACCESS TO CEILINGS OTHER THAN FOR VISUAL INSPECTION.	GROUP 1 LOW RISK	• MECHANICAL SPACES: AREAS NOT DIRECTLY ADJACENT TO PATIENT CARE, INCLUDING INTERSTITIAL SPACES. • ENGINEERING OR EMS OFFICE/WORK AREAS • OFFICE AREAS: AREAS NOT ATTACHED TO ADJOINING PATIENT CARE AREAS, NOT USED FOR PATIENT INTERVIEWS, EVALUATIONS OR EXAMINATIONS. • PUBLIC CORRIDORS: SPACES NOT ON OR DIRECTLY ATTACHED TO PATIENT UNITS OR TREATMENT LOCATIONS.
TYPE B	SMALL SCALE, SHORT DURATION ACTIVITIES WHICH CREATE MINIMAL DUST, INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION OF TELEPHONE AND COMPUTER CABLING, ACCESS TO CHASE SPACES, CUTTING OF WALLS OR CEILING WHERE DUST MIGRATION CAN BE CONTROLLED, FLOOR COVERING REMOVAL (WITHOUT SANDING OR GRINDING).	GROUP 2 MEDIUM RISK	• OUTPATIENT AREAS: 1. PRIMARY CARE OR SPECIALTY CARE CLINIC AREAS 2. BEHAVIORAL/MENTAL HEALTH AREAS 3. EXTENDED CARE / REHAB CLINIC AREAS 4. COMMUNITY BASED OUTPATIENT CLINICS (CBOS/CS)
TYPE C	ANY WORK THAT GENERATES A MODERATE TO HIGH LEVEL OF DUST OR REQUIRES DEMOLITION OR REMOVAL OF ANY FIXED BUILDING COMPONENTS OR ASSEMBLIES. INCLUDES, BUT IS NOT LIMITED TO, SANDING OF WALL FOR PAINTING OR WALLCOVERING, REMOVAL OF FLOOR COVERINGS, CEILING TILES AND CASHEWORK, NEW WALL CONSTRUCTION, MINOR DUCTWORK OR ELECTRICAL WORK ABOVE CEILINGS, MAJOR CABLING ACTIVITIES, AND ANY ACTIVITY WHICH CANNOT BE COMPLETED WITHIN A SINGLE WORK SHIFT. FLOOR COVERING REMOVAL (WITH SANDING OR GRINDING).	GROUP 3 HIGH RISK	• INPATIENT UNITS: 1. INCLUDING, BUT NOT LIMITED TO: EMERGENCY DEPT., NURSING UNITS, RADIOLOGY/RN/CCT/ULTRASOUND, NUCLEAR MEDICINE, CAFETERIA/KITCHEN/CANTEEN, LABORATORIES, RADIATION / ONCOLOGY, DIALYSIS • ICU/SICU • ORIPACU/ENDOSCOPY • GI • STERILE PROCESSING SERVICES (SPS) • PHARMACY • CATH LAB
TYPE D	MAJOR DEMOLITION AND CONSTRUCTION PROJECTS. INCLUDES, BUT IS NOT LIMITED TO, ACTIVITIES WHICH REQUIRE CONSECUTIVE WORK SHIFTS, REQUIRE HEAVY DEMOLITION OR REMOVAL OF A COMPLETE CEILING SYSTEM, FLOORING AND NEW CONSTRUCTION.	GROUP 4 HIGHEST RISK	
CLASS I	KEEP AREAS FREE OF DEBRIS, TRASH EXECUTE WORK TO MINIMIZE OF DUST MIGRATION (E.G. WET MOPPING, HEPA VACUUM) IMMEDIATELY REPLACE ANY CEILING TILE DISPLACED FOR VISUAL INSPECTION (INVOLVING MINOR DEMOLITION OR MAINTENANCE OR REMODELING.)		
CLASS II	SAME AS CLASS I PLUS: 1. ESTABLISH MATERIAL AND DEBRIS ROUTE USING NON-PATIENT/VISITOR PATHWAY 2. WATER MIST WORK SURFACE TO CONTROL DUST WHILE CUTTING OR DRILLING. 3. BLOCK OFF AND SEAL AIR VENTS 4. SEAL UNUSED DOORS WITH PLASTIC SHEATHING AND DUCT TAPE. 5. CREATE BARRIERS AS DEFINED BY INFECTION PREVENTION 6. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINER, TAPE COVERING UNLESS SOLID LID. 7. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA. 8. PLACE STICKY MAT AT ALL WORK AREA ENTRANCES AND EXITS. 9. REMOVE OR ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA		
CLASS III	SAME AS CLASS I AND II PLUS: 1. ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA TO PREVENT DUCT SYSTEM CONTAMINATION 2. COMPLETE CRITICAL BARRIERS (I.E. SHEETROCK, PLYWOOD, PLASTIC) AT ALL CONSTRUCTION ENTRIES AND EXITS; MONITOR FOR SEAL AND TAKE IMMEDIATE CORRECTIVE ACTION AS NEEDED 3. MAINTAIN AND MONITOR NEGATIVE AIR PRESSURE WITHIN CONSTRUCTION SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS. 4. REMOVE OR ISOLATE HVAC SYSTEMS IN AREA WHERE WORK IS BEING PERFORMED. 5. CHECK AND REPLACE AIR FILTERS AS NEEDED REGULARLY. 6. DO NOT REMOVE BARRIERS FROM WORK SITE UNTIL PROJECT IS COMPLETE & HAS BEEN THOROUGHLY CLEANED; REMOVE BARRIERS CAREFULLY TO MINIMIZE SPREADING DUST, DEBRIS. 7. VACUUM WORK WITH HEPA FILTERED VACUUM. 8. WET MOP AREA WITH CLEANER/DISINFECTANT. 9. MITIGATE VIBRATION AND NOISE TO LOWEST IMPACT WHERE POSSIBLE. 10. DISPLAY ICRA AT SITE 11. SEAL HOLES, PIPES, CONDUITS AND PUNCTURES.		
CLASS IV	SAME AS CLASS I, II AND III PLUS: 1. INSPECT ADJACENT AREAS FOR DUST MIGRATION; TAKE IMMEDIATE CORRECTIVE AS NEEDED 2. USE HEPA VACUUM IN AREA PRIOR TO START OF CONSTRUCTION 3. CONSTRUCT ANTE ROOM. ALL PERSONNEL MUST ENTER THROUGH IT TO BE VACUUMED USING HEPA VACUUM BEFORE LEAVING OR TO DON/DOFF PPE		

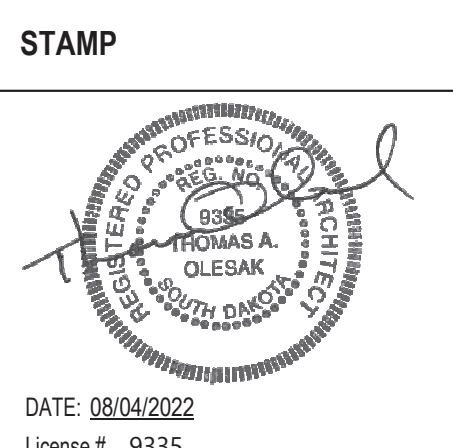
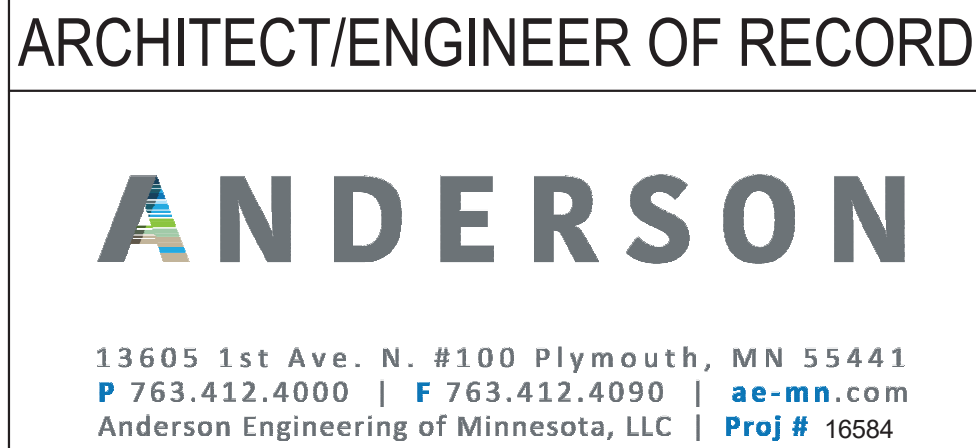
### INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE

PHASE - ALL  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
INFECTION CONTROL RISK GROUP - GROUP 4, HIGH RISK  
CONTROL PROCEDURE CLASS - IV

1 FIRST LEVEL ICRA, CONSTRUCTION BARRIER & PHASING PLAN  
1/8" = 1'-0"

0 4' 8' 16'

Revisions:	Date:



Drawing Title  
FIRST LEVEL INFECTION CONTROL & PHASING PLAN

Approved:

Phase  
BID DOCUMENTS

FULLY SPRINKLERED

Project Title  
CONSTRUCT NEW SPS

Location  
Sioux Falls, SD.

Issue Date  
08/04/2022

Checked  
Checker

Drawn  
Author

Project Number  
438-460

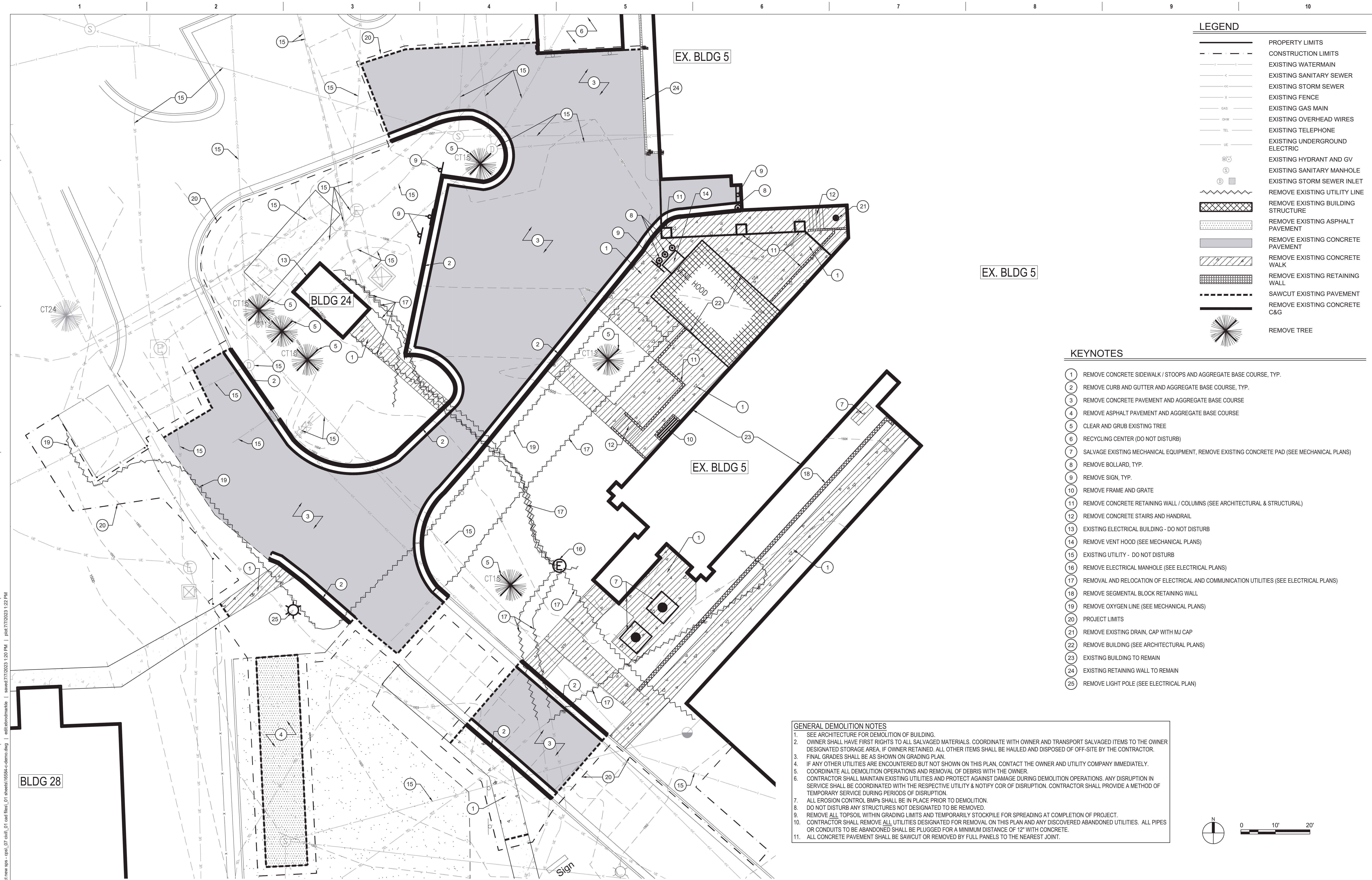
Building Number  
5




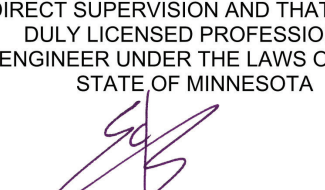

Drawing Number  
GC111



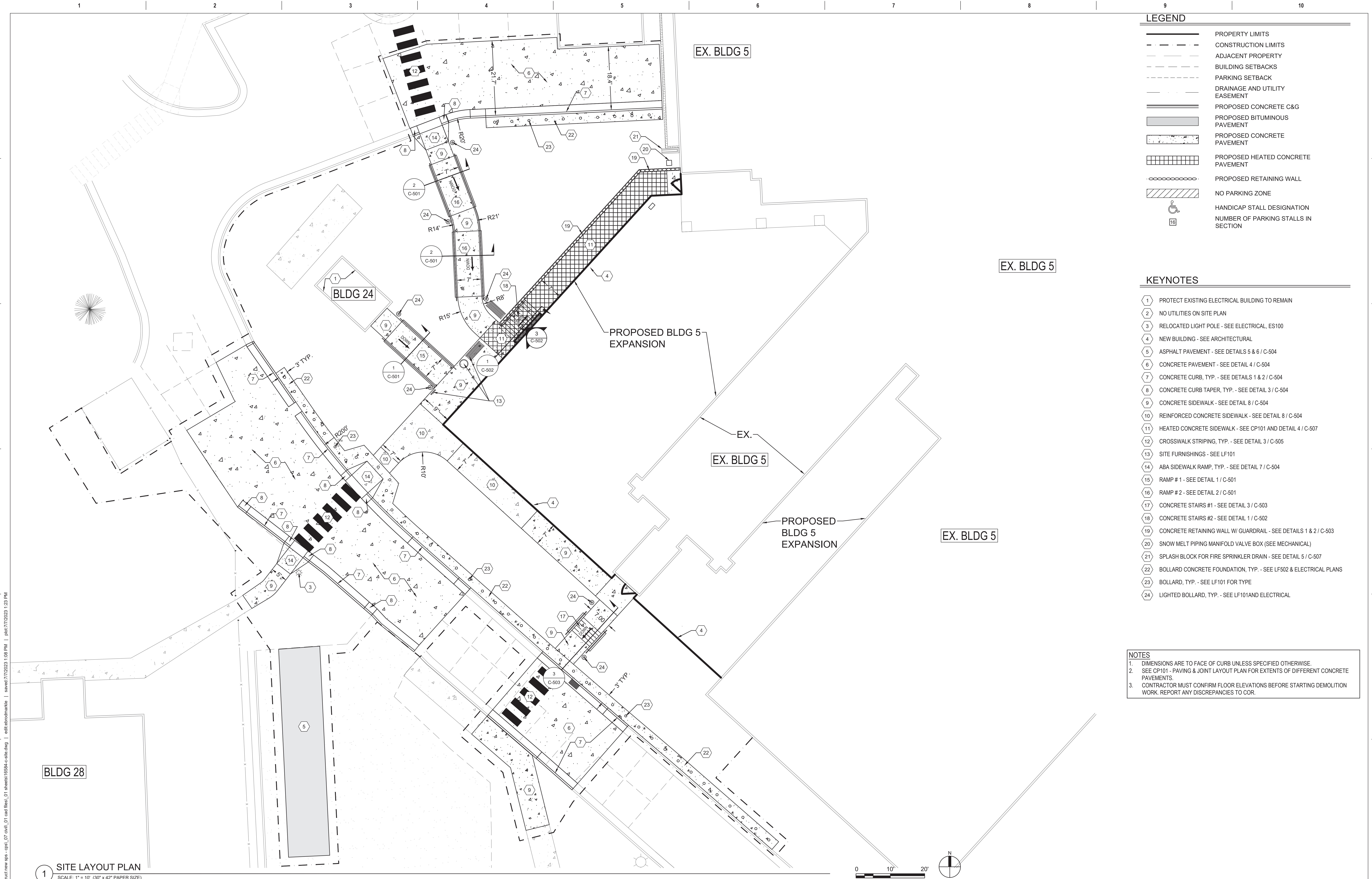






<div>Revisions:</div> <div>Date:</div>		<div>CONSULTANTS</div> <div></div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div> 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000   F 763.412.4090   ae-mn.com Anderson Engineering of Minnesota, LLC   Proj # 16584</div>		<div>STAMP</div> <div>I HEREBY CERTIFY 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  EDWIN J. BRODMARKLE, PE DATE: 2022.08.04 LICENSE NO: 55409</div>		<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>		<div>Drawing Title</div> <div>DEMOLITION PLAN</div> <div>Approved: Project Director</div> <div>SIoux FALLS VA HEALTH CARE SYSTEM</div>		<div>Phase</div> <div>BID DOCUMENTS</div> <div>FULLY SPRINKLERED</div>		<div>Project Title</div> <div>CONSTRUCT NEW SPS</div> <div>Location</div> <div>SIoux FALLS, SOUTH DAKOTA</div> <div>Issue Date</div> <div>08/04/2022</div> <div>Checked</div> <div>EB</div> <div>Drawn</div> <div>AB</div>		<div>Project Number</div> <div>438-460</div> <div>Building Number</div> <div>5</div> <div>Drawing Number</div> <div>CD101</div>	
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1


SITE LAYOUT PLAN

SCALE: 1" = 10' (30" x 42" PAPER SIZE)


CONSULTANTS




ARCHITECT/ENGINEER OF RECORD

  
13605 1st Ave. N. #100 Plymouth, MN 55441  
P 763.412.4000 | F 763.412.4090 | [ae-mn.com](http://ae-mn.com)  
Anderson Engineering of Minnesota, LLC | Proj # 16584

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  
  
EDWIN J. BROADMARKLE, PE  
DATE: 2022.08.04 LICENSE NO: 55409

Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title

SITE LAYOUT PLAN

Approved: Project Director

SIOUX FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location SIOUX FALLS, SOUTH DAKOTA

Issue Date 08/04/2022

Checked EB

Drawn JD

Project Number

438-460

Building Number

5

Drawing Number

CS101

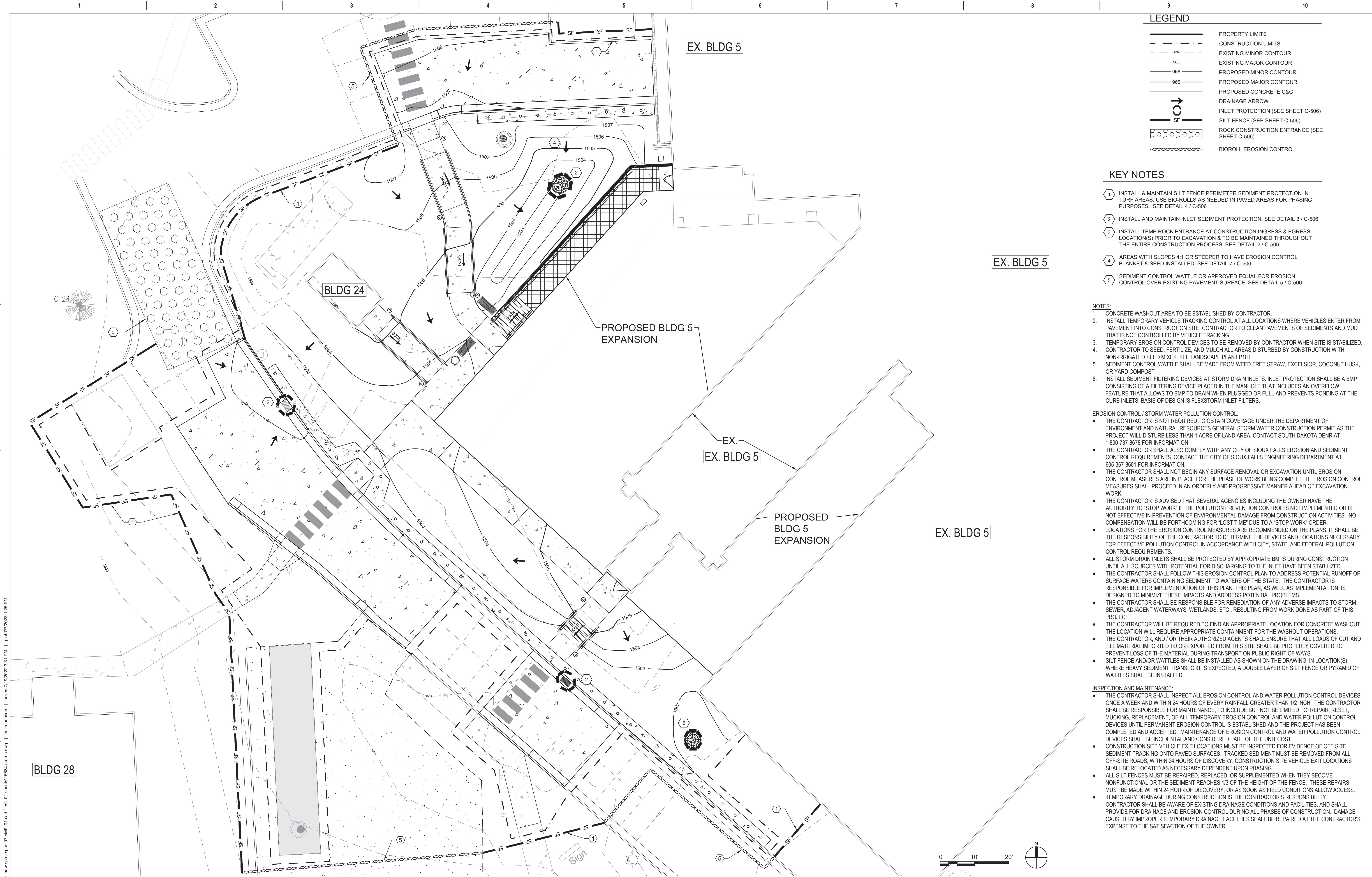
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LEGEND	
	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED CONCRETE C&G
	DRAINAGE ARROW
	INLET PROTECTION (SEE SHEET C-506)
	SILT FENCE (SEE SHEET C-506)
	ROCK CONSTRUCTION ENTRANCE (SEE SHEET C-506)
	BIOROLL EROSION CONTROL

- KEY NOTES**
1. INSTALL & MAINTAIN SILT FENCE PERIMETER SEDIMENT PROTECTION IN TURF AREAS. USE BIO-ROLLS AS NEEDED IN PAVED AREAS FOR PHASING PURPOSES. SEE DETAIL 4 / C-506
  2. INSTALL AND MAINTAIN INLET SEDIMENT PROTECTION. SEE DETAIL 3 / C-506
  3. INSTALL TEMP ROCK ENTRANCE AT CONSTRUCTION INGRESS & EGRESS LOCATION(S) PRIOR TO EXCAVATION & TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. SEE DETAIL 2 / C-506
  4. AREAS WITH SLOPES 4:1 OR STEEPER TO HAVE EROSION CONTROL BLANKET & SEED INSTALLED. SEE DETAIL 7 / C-506
  5. SEDIMENT CONTROL WATTLE OR APPROVED EQUAL FOR EROSION CONTROL OVER EXISTING PAVEMENT SURFACE. SEE DETAIL 5 / C-506

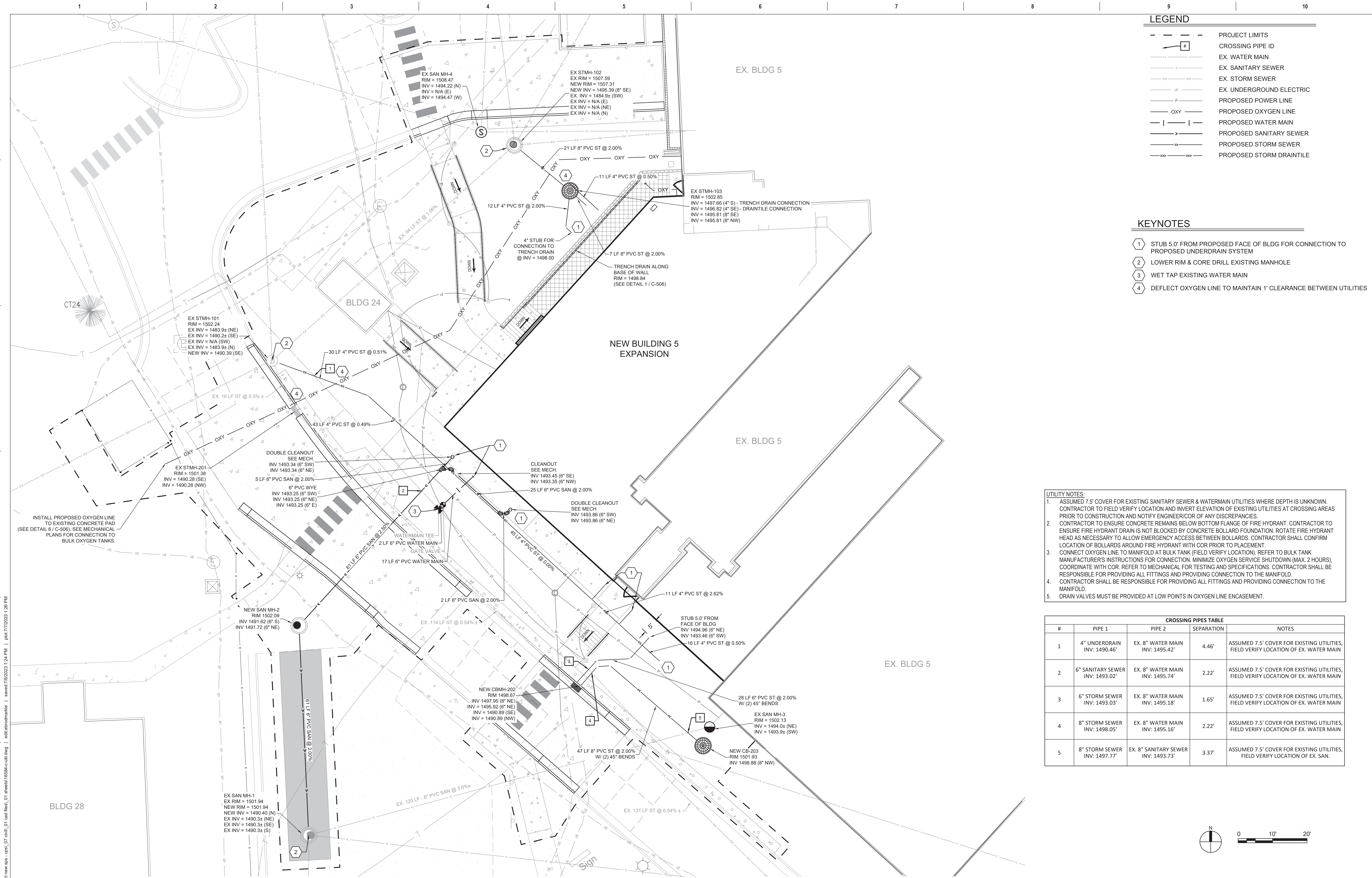
- NOTES:**
1. CONCRETE WASHOUT AREA TO BE ESTABLISHED BY CONTRACTOR.
  2. INSTALL TEMPORARY VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES ENTER FROM PAVEMENT INTO CONSTRUCTION SITE. CONTRACTOR TO CLEAN PAVEMENTS OF SEDIMENTS AND MUD THAT IS NOT CONTROLLED BY VEHICLE TRACKING.
  3. TEMPORARY EROSION CONTROL DEVICES TO BE REMOVED BY CONTRACTOR WHEN SITE IS STABILIZED.
  4. CONTRACTOR TO SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION WITH NON-IRRIGATED SEED MIXES. SEE LANDSCAPE PLAN LP101.
  5. SEDIMENT CONTROL WATTLE SHALL BE MADE FROM WEED-FREE STRAW, EXCELSIOR, COCONUT HUSK, OR YARD COMPOST.
  6. INSTALL SEDIMENT FILTERING DEVICES AT STORM DRAIN INLETS. INLET PROTECTION SHALL BE A BMP CONSISTING OF A FILTERING DEVICE PLACED IN THE MANHOLE THAT INCLUDES AN OVERFLOW FEATURE THAT ALLOWS TO BMP TO DRAIN WHEN PLUGGED OR FULL AND PREVENTS PONDING AT THE CURB INLETS. BASIS OF DESIGN IS FLEXSTORM INLET FILTERS.

- EROSION CONTROL / STORM WATER POLLUTION CONTROL:**
- THE CONTRACTOR IS NOT REQUIRED TO OBTAIN COVERAGE UNDER THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES GENERAL STORM WATER CONSTRUCTION PERMIT AS THE PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND AREA. CONTACT SOUTH DAKOTA DENR AT 1-800-737-8678 FOR INFORMATION.
  - THE CONTRACTOR SHALL ALSO COMPLY WITH ANY CITY OF SIOUX FALLS EROSION AND SEDIMENT CONTROL REQUIREMENTS. CONTACT THE CITY OF SIOUX FALLS ENGINEERING DEPARTMENT AT 605-367-8601 FOR INFORMATION.
  - THE CONTRACTOR SHALL NOT BEGIN ANY SURFACE REMOVAL OR EXCAVATION UNTIL EROSION CONTROL MEASURES ARE IN PLACE FOR THE PHASE OF WORK BEING COMPLETED. EROSION CONTROL MEASURES SHALL PROCEED IN AN ORDERLY AND PROGRESSIVE MANNER AHEAD OF EXCAVATION WORK.
  - THE CONTRACTOR IS ADVISED THAT SEVERAL AGENCIES INCLUDING THE OWNER HAVE THE AUTHORITY TO "STOP WORK" IF THE POLLUTION PREVENTION CONTROL IS NOT IMPLEMENTED OR IS NOT EFFECTIVE IN PREVENTION OF ENVIRONMENTAL DAMAGE FROM CONSTRUCTION ACTIVITIES. NO COMPENSATION WILL BE FORTHCOMING FOR "LOST TIME" DUE TO A "STOP WORK" ORDER.
  - LOCATIONS FOR THE EROSION CONTROL MEASURES ARE RECOMMENDED ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE DEVICES AND LOCATIONS NECESSARY FOR EFFECTIVE POLLUTION CONTROL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL POLLUTION CONTROL REQUIREMENTS.
  - ALL STORM DRAIN INLETS SHALL BE PROTECTED BY APPROPRIATE BMPs DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
  - THE CONTRACTOR SHALL FOLLOW THIS EROSION CONTROL PLAN TO ADDRESS POTENTIAL RUNOFF OF SURFACE WATERS CONTAINING SEDIMENT TO WATERS OF THE STATE. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN, AS WELL AS IMPLEMENTATION, IS DESIGNED TO MINIMIZE THESE IMPACTS AND ADDRESS POTENTIAL PROBLEMS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO STORM SEWER, ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
  - THE CONTRACTOR WILL BE REQUIRED TO FIND AN APPROPRIATE LOCATION FOR CONCRETE WASHOUT. THE LOCATION WILL REQUIRE APPROPRIATE CONTAINMENT FOR THE WASHOUT OPERATIONS.
  - THE CONTRACTOR, AND / OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHT OF WAYS.
  - SILT FENCE AND/OR WATTLES SHALL BE INSTALLED AS SHOWN ON THE DRAWING. IN LOCATION(S) WHERE HEAVY SEDIMENT TRANSPORT IS EXPECTED, A DOUBLE LAYER OF SILT FENCE OR PYRAMID OF WATTLES SHALL BE INSTALLED.

- INSPECTION AND MAINTENANCE:**
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES ONCE A WEEK AND WITHIN 24 HOURS OF EVERY RAINFALL GREATER THAN 1/2 INCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE, TO INCLUDE BUT NOT BE LIMITED TO: REPAIR, RESET, MUCKING, REPLACEMENT, OF ALL TEMPORARY EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED AND THE PROJECT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE OF EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES SHALL BE INCIDENTAL AND CONSIDERED PART OF THE UNIT COST.
  - CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL OFF-SITE ROADS WITHIN 24 HOURS OF DISCOVERY. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE RELOCATED AS NECESSARY DEPENDENT UPON PHASING.
  - ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE FENCE. THESE REPAIRS MUST BE MADE WITHIN 24 HOUR OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
  - TEMPORARY DRAINAGE DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL BE AWARE OF EXISTING DRAINAGE CONDITIONS AND FACILITIES, AND SHALL PROVIDE FOR DRAINAGE AND EROSION CONTROL DURING ALL PHASES OF CONSTRUCTION. DAMAGE CAUSED BY IMPROPER TEMPORARY DRAINAGE FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

CONSULTANTS		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
						EROSION CONTROL PLAN		BID DOCUMENTS		CONSTRUCT NEW SPS		438-460	
Revisions:		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 # 16584		U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		Location		Building Number	
Date:		EDWIN J. BRODMARKLE, PE DATE: 2022.08.04 LICENSE NO: 554509		SIoux FALLS VA HEALTH CARE SYSTEM		08/04/2022		Checked		SIoux FALLS, SOUTH DAKOTA		5	
								Drawn		JD		CG102	



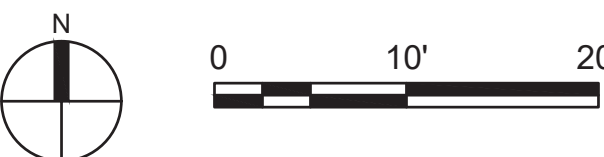


LEGEND	
	PROJECT LIMITS
	CROSSING PIPE ID
	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. UNDERGROUND ELECTRIC
	PROPOSED POWER LINE
	PROPOSED OXYGEN LINE
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM DRAINTILE

- KEYNOTES**
- 1 STUB 5.0' FROM PROPOSED FACE OF BLDG FOR CONNECTION TO PROPOSED UNDERDRAIN SYSTEM
  - 2 LOWER RIM & CORE DRILL EXISTING MANHOLE
  - 3 WET TAP EXISTING WATER MAIN
  - 4 DEFLECT OXYGEN LINE TO MAINTAIN 1' CLEARANCE BETWEEN UTILITIES

- UTILITY NOTES:**
- ASSUMED 7.5' COVER FOR EXISTING SANITARY SEWER & WATERMAIN UTILITIES WHERE DEPTH IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATION OF EXISTING UTILITIES AT CROSSING AREAS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER/COR OF ANY DISCREPANCIES.
  - CONTRACTOR TO ENSURE CONCRETE REMAINS BELOW BOTTOM FLANGE OF FIRE HYDRANT. CONTRACTOR TO ENSURE FIRE HYDRANT DRAIN IS NOT BLOCKED BY CONCRETE BOLLARD FOUNDATION. ROTATE FIRE HYDRANT HEAD AS NECESSARY TO ALLOW EMERGENCY ACCESS BETWEEN BOLLARDS. CONTRACTOR SHALL CONFIRM LOCATION OF BOLLARDS AROUND FIRE HYDRANT WITH COR PRIOR TO PLACEMENT.
  - CONNECT OXYGEN LINE TO MANIFOLD AT BULK TANK (FIELD VERIFY LOCATION). REFER TO BULK TANK MANUFACTURER'S INSTRUCTIONS FOR CONNECTION. MINIMIZE OXYGEN SERVICE SHUTDOWN (MAX. 2 HOURS), COORDINATE WITH COR. REFER TO MECHANICAL FOR TESTING AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FITTINGS AND PROVIDING CONNECTION TO THE MANIFOLD.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FITTINGS AND PROVIDING CONNECTION TO THE MANIFOLD.
  - DRAIN VALVES MUST BE PROVIDED AT LOW POINTS IN OXYGEN LINE ENCASEMENT.

CROSSING PIPES TABLE				
#	PIPE 1	PIPE 2	SEPARATION	NOTES
1	4" UNDERDRAIN INV: 1490.46'	EX. 8" WATER MAIN INV: 1495.42'	4.46'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
2	6" SANITARY SEWER INV: 1493.02'	EX. 8" WATER MAIN INV: 1495.74'	2.22'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
3	6" STORM SEWER INV: 1493.03'	EX. 8" WATER MAIN INV: 1495.18'	1.65'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
4	8" STORM SEWER INV: 1498.05'	EX. 8" WATER MAIN INV: 1495.16'	2.22'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
5	8" STORM SEWER INV: 1497.77'	EX. 8" SANITARY SEWER INV: 1493.73'	3.37'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. SAN.



Revisions:

Date:

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ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

UTILITY PLAN

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

08/04/2022

Checked

EB

Drawn

AB

Project Number

438-460

Building Number

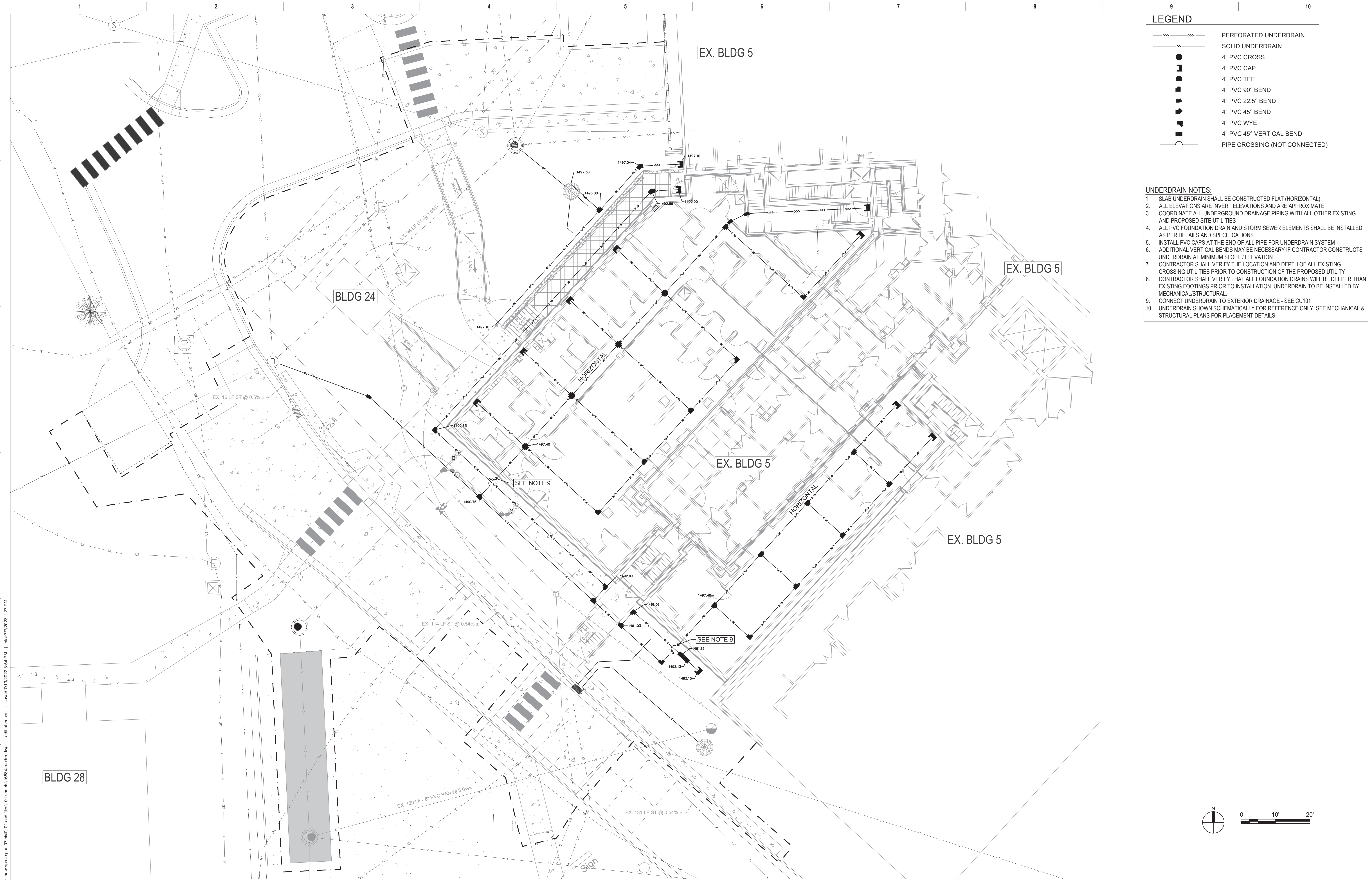
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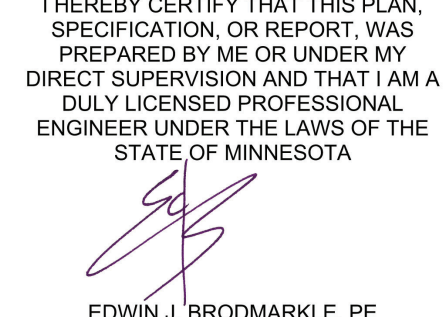

Drawing Number

CU101

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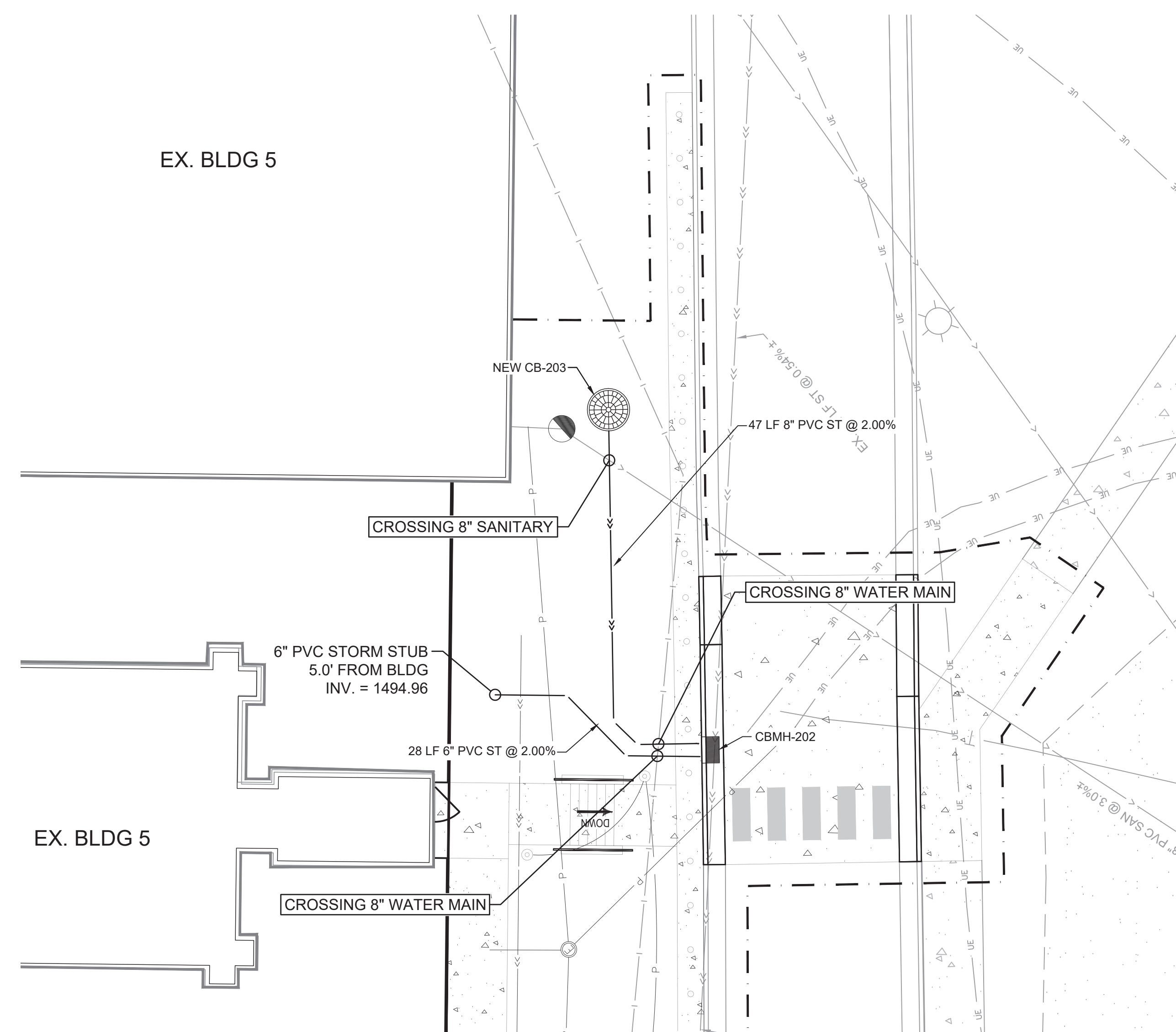














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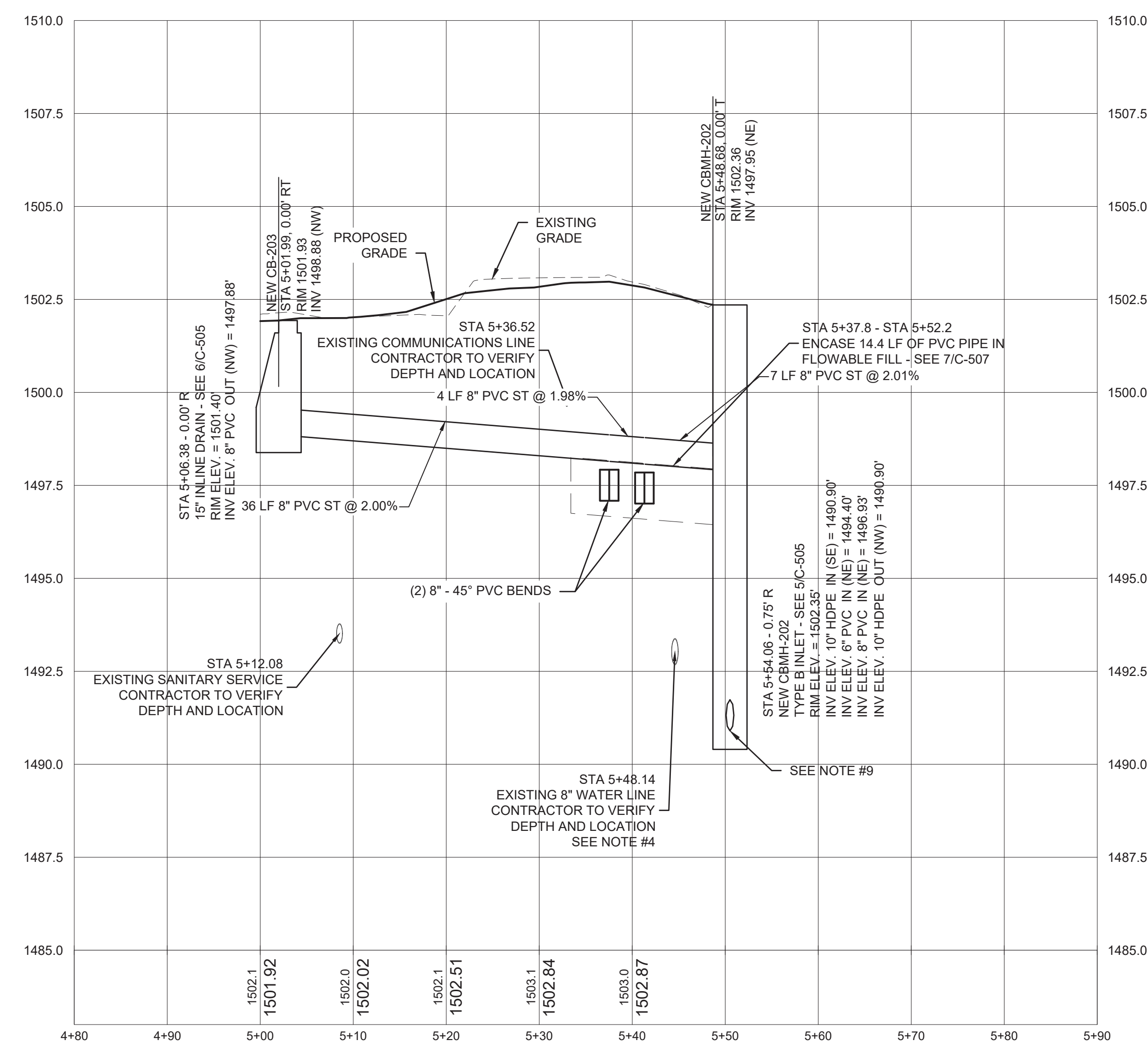
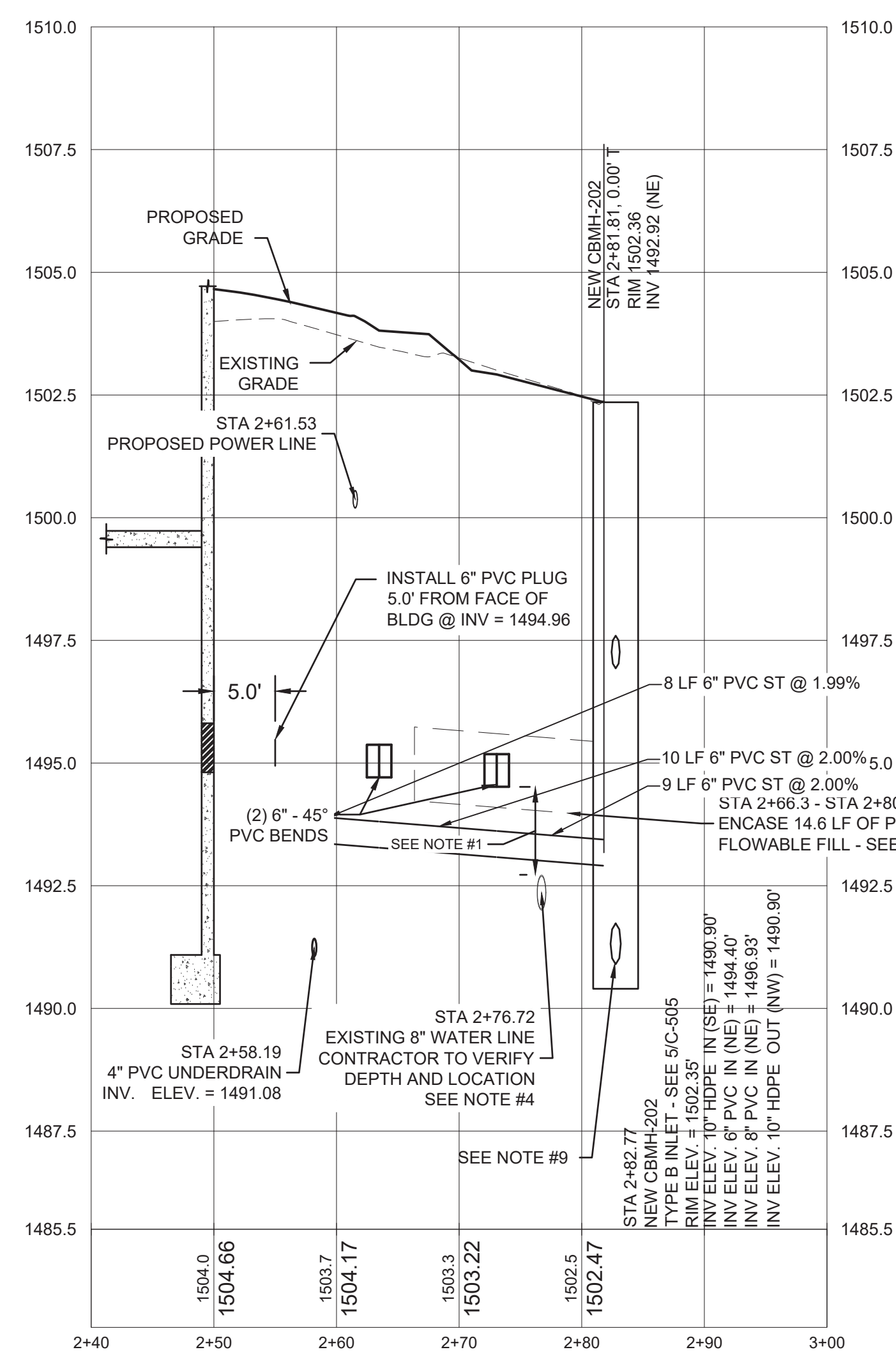




- # LEGEND
- |   |                          |
|---|--------------------------|
|  | PROJECT LIMITS           |
|  | CROSSING PIPE            |
|  | EX. WATER MAIN           |
|  | EX. SANITARY SEWER       |
|  | EX. STORM SEWER          |
|  | EX. UNDERGROUND ELECTRIC |
|  | PROPOSED POWER LINE      |
|  | PROPOSED OXYGEN LINE     |
|  | PROPOSED WATER MAIN      |
|  | PROPOSED SANITARY SEWER  |
|  | PROPOSED STORM SEWER     |
|  | PROPOSED TRENCH DRAIN    |

NOTE:

1. IF LESS THAN 18" OF VERTICAL CLEARANCE IS PROVIDED BETWEEN WATER MAIN AND STORM / SANITARY SEWER OR IF WATER MAIN IS BENEATH STORM / SANITARY SEWER, ENCASE AS PER SDDENR REQUIREMENTS - SEE 7/C-507
2. SEE 2/C-505 FOR MANHOLE DETAIL.
3. SEE MECHANICAL FOR CLEAN OUT DETAIL.
4. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION OF THE PROPOSED UTILITY AND ORDERING MATERIALS
5. MAINTAIN A MINIMUM OF 1' VERTICAL SEPARATION BETWEEN SANITARY AND STORM SEWER.
6. CONTRACTOR MAY REVISE SLOPE OF SANITARY SERVICE FROM BUILDING TO MANHOLE TO MAINTAIN CLEARANCES SHOWN IN NOTE 1 AND NOTE 5. MAINTAIN A MINIMUM OF 2% SLOPE ON ALL SANITARY SEWER SERVICE AND MAINS OUTSIDE OF BUILDING.
7. SEE 2/C-507 FOR TRENCH DETAIL.
8. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING IN ACCORDANCE WITH CITY OF SIOUX FALLS REQUIREMENTS WHICH INCLUDES A BYPASS PUMPING PLAN.
9. ELEVATIONS OF PROPOSED STORM SEWER INLET ARE APPROXIMATE AND ARE BASED ON OWNER'S BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY EXACT LOCATION, DEPTH, AND SIZE OF EXISTING STORM SEWER. CONNECT EXISTING PIPING TO PROPOSED INLET BOX.
10. ONLY IRRIGATION MAINLINE IS SHOWN, IRRIGATION LATERALS ARE NOT SHOWN.

[illegible]

CONSULTANTS



ARCHITECT/ENGINEER OF RECORD



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EDWIN J. BRODMARKLE, PE  
DATE: 2022.09.04 LICENCE NO: 55400

Office of  
Construction  
and Facilities  
Management



	Drawing Title
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# STORM SEWER PLAN AND PROFILE

Approved: Project Director

SIOUX FALLS VA  
 HEALTH CARE SYSTEM

	Phase
1	Phase 1
2	Phase 2
3	Phase 3
4	Phase 4
5	Phase 5
6	Phase 6
7	Phase 7
8	Phase 8
9	Phase 9
10	Phase 10
11	Phase 11
12	Phase 12
13	Phase 13
14	Phase 14
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96	Phase 96
97	Phase 97
98	Phase 98
99	Phase 99
100	Phase 100

BID DOCUMENTS

## FULLY SPRINKLERED

Project Title

## CONSTRUCT NEW SPS

	Location

Date \_\_\_\_\_

☒ Checked

	<b>Drawing Number</b>

CU104





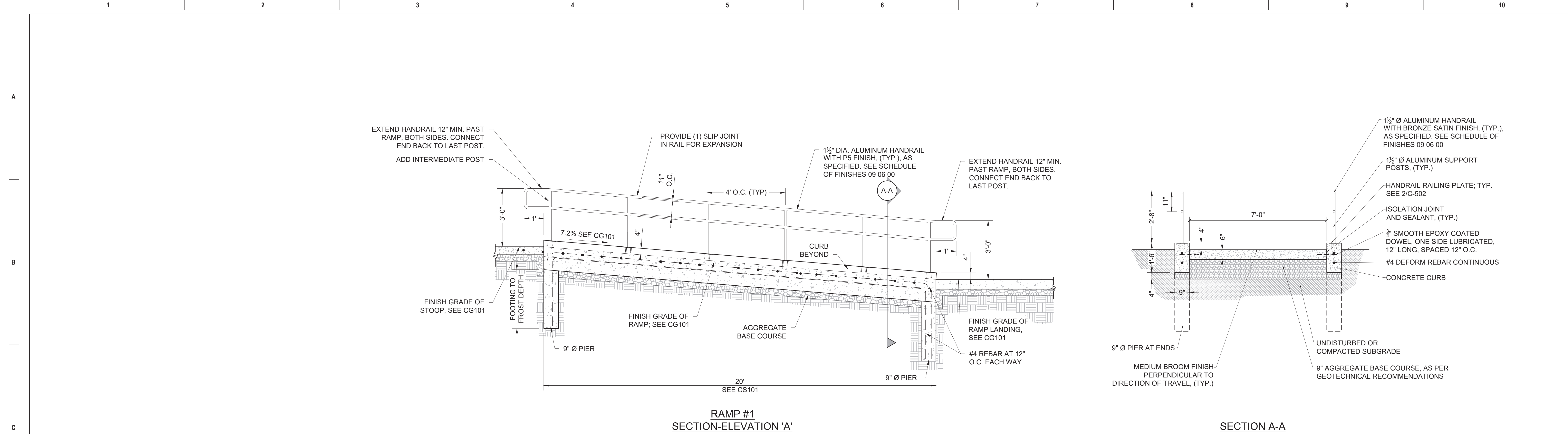




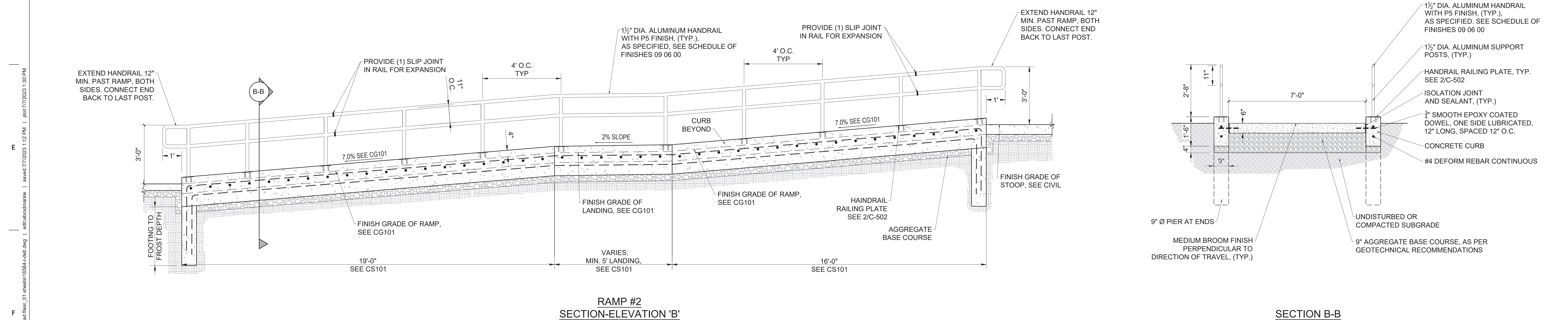







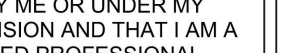




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2 RAMP #2 DETAIL  
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		CONSULTANTS	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title RAMP SITE DETAILS	Phase BID DOCUMENTS	Project Number 438-460		
		 	 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 # 16584		VA	U.S. Department of Veterans Affairs	Approved: Project Director SIOUX FALLS VA HEALTH CARE SYSTEM	FULLY SPRINKLERED	Location SIOUX FALLS, SOUTH DAKOTA	Building Number 5
Revisions:										
Date:										



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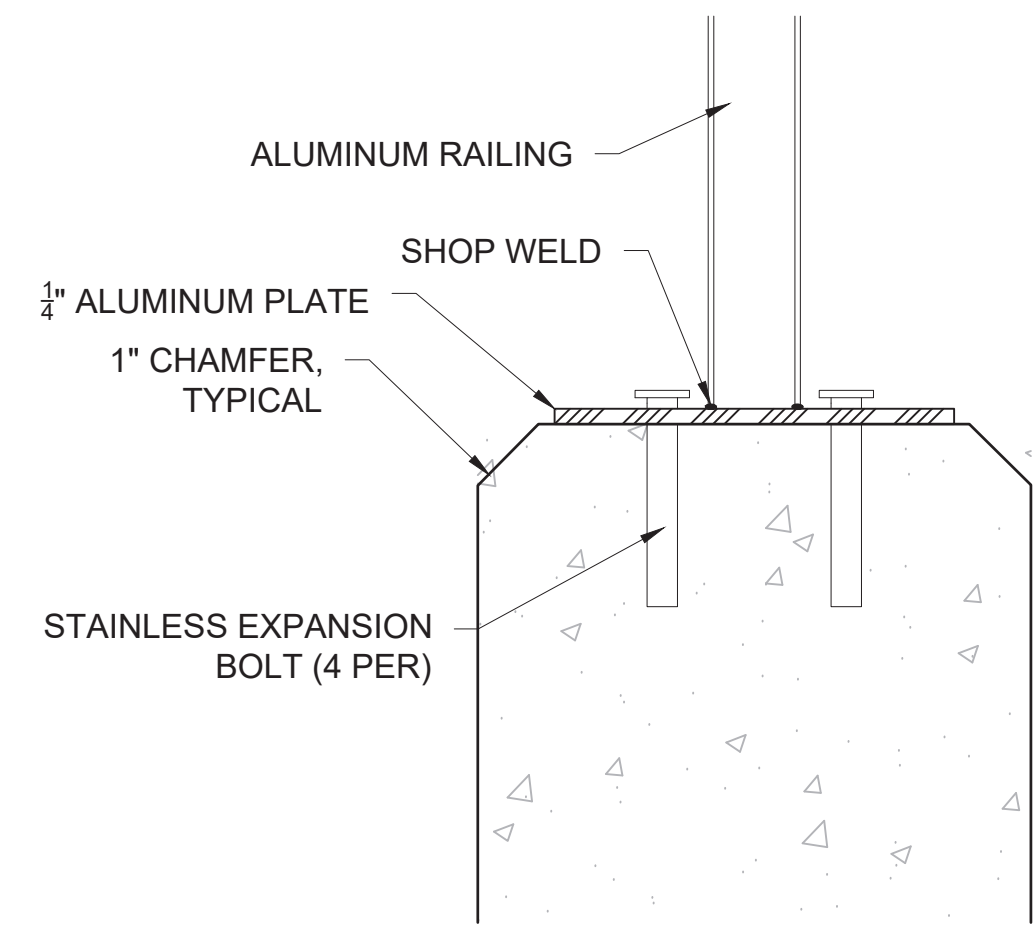
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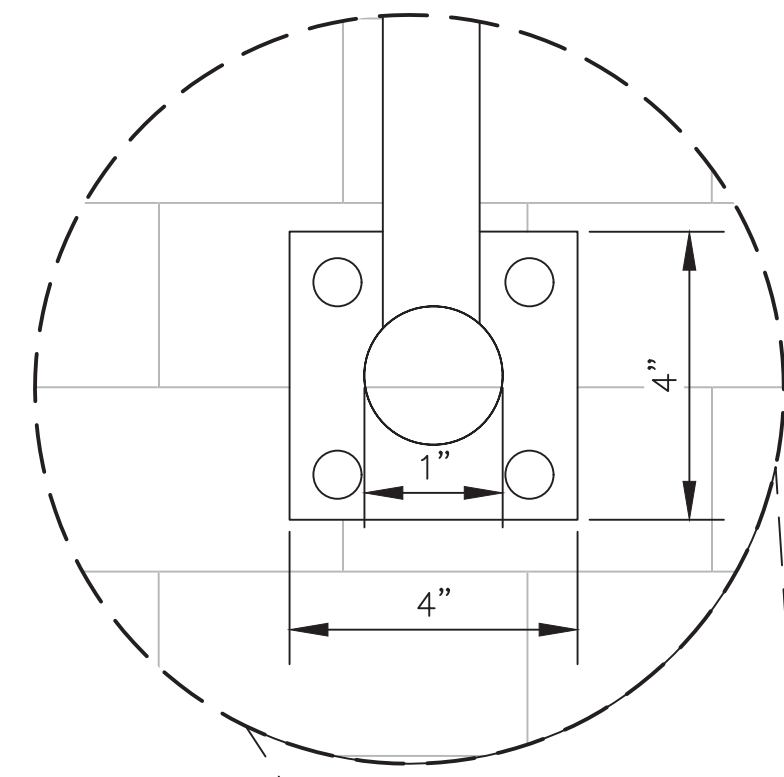
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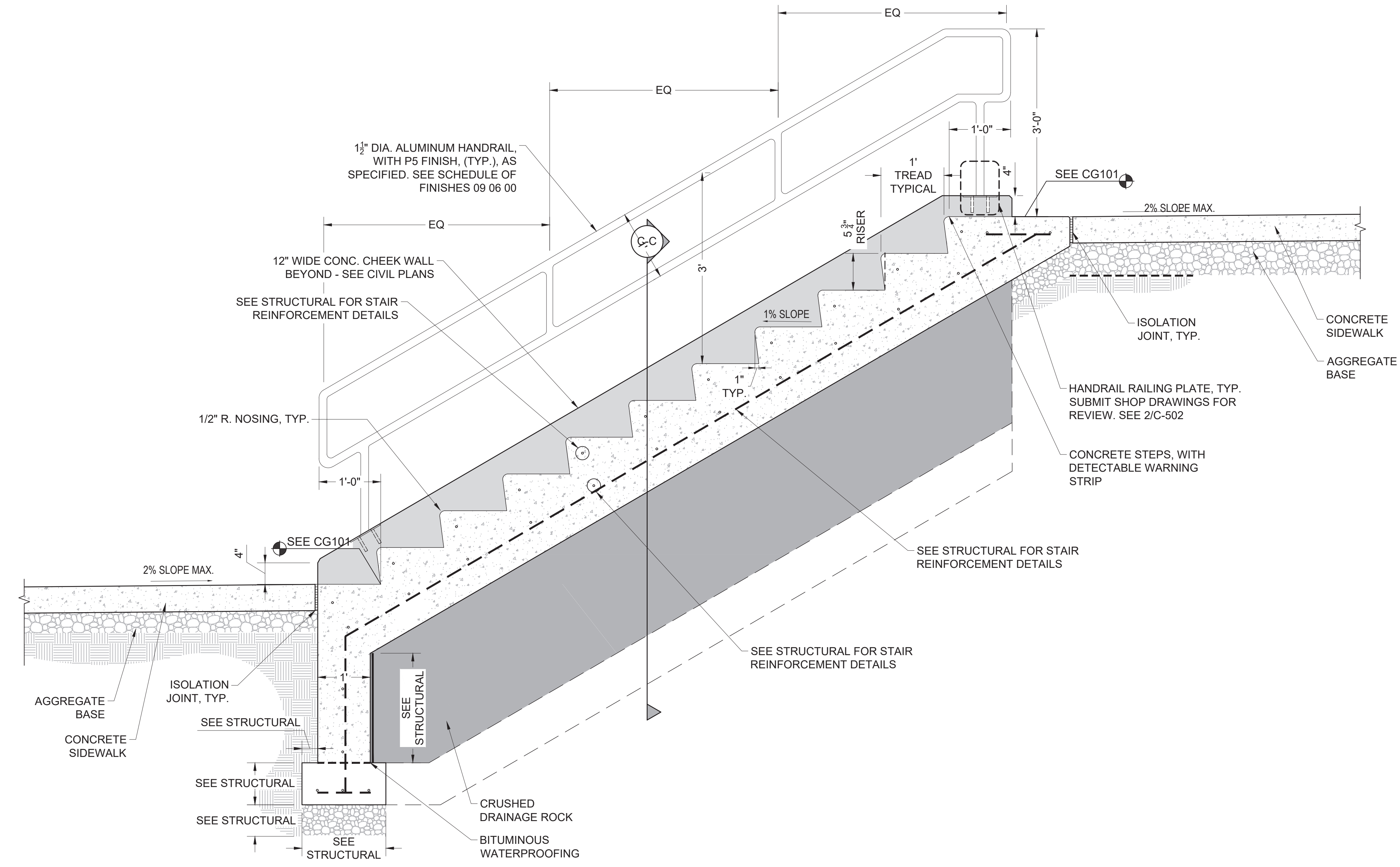
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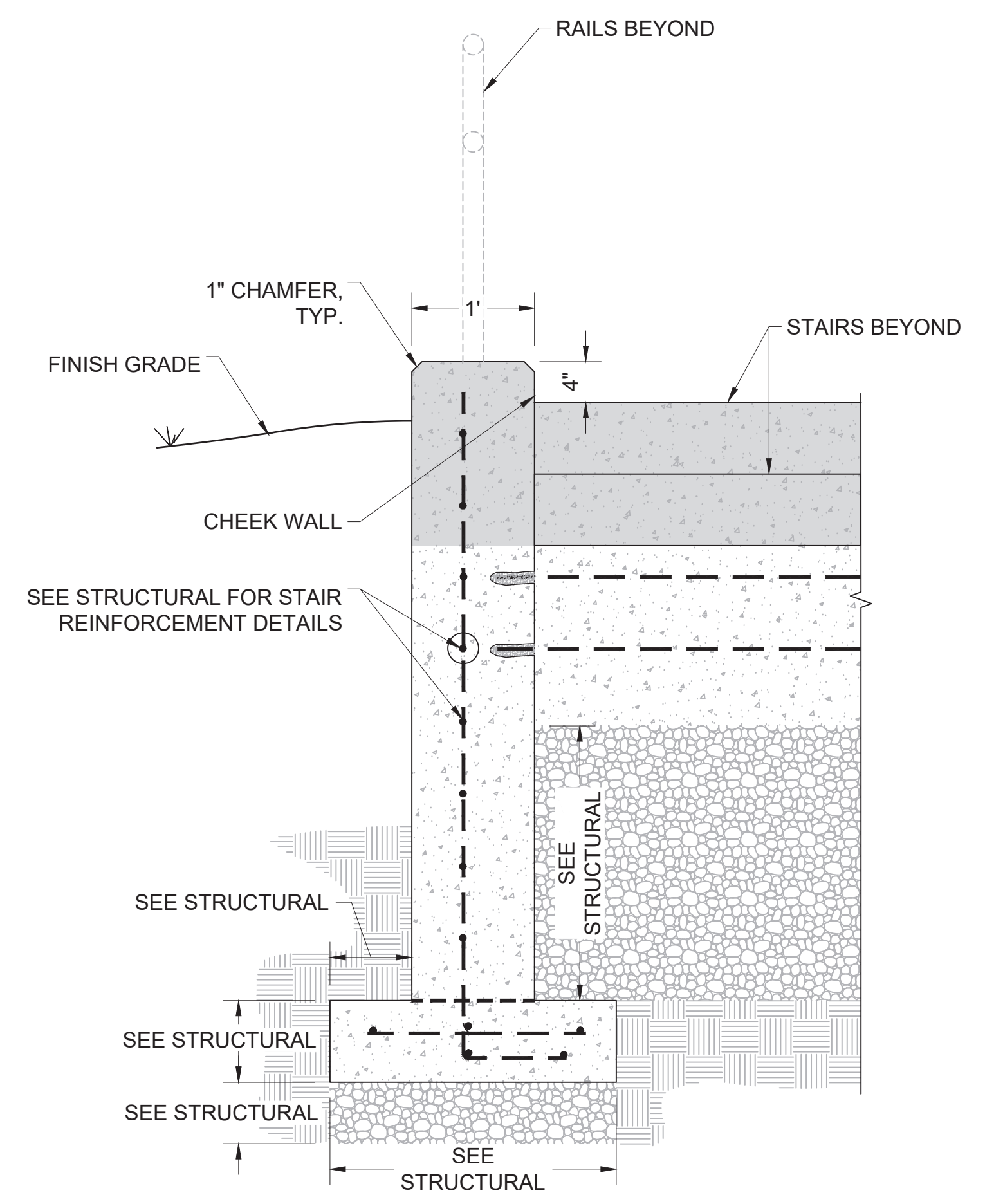
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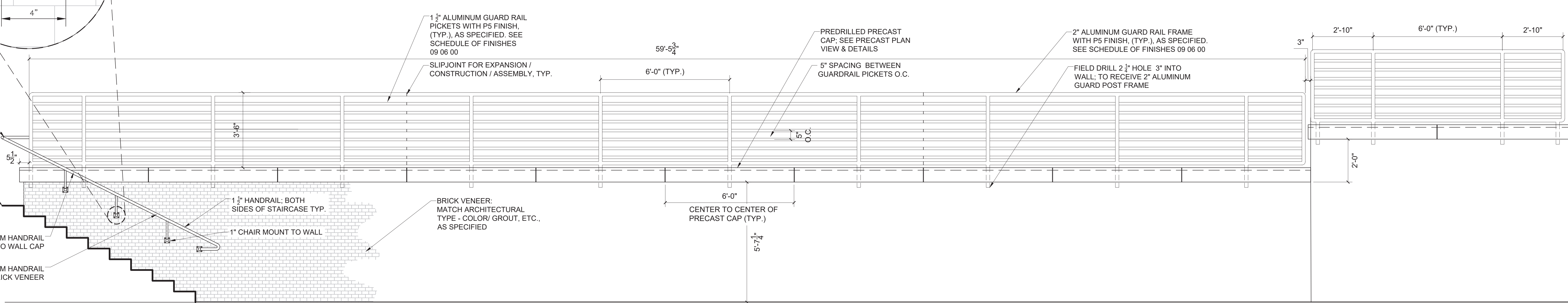
EXTEND HANDRAIL, 12" PAST LANDING, MIN. BOTH SIDES; CHAIR CONNECTION TO REINFORCED CONCRETE WALL. RETURN HANDRAIL TO GUARDRAIL.  
FINISH GRADE OF LANDING; SEE CG101  
MAINTAIN 1 1/2" MINIMUM HANDRAIL DISTANCE TO WALL CAP  
MAINTAIN 3 1/2" MINIMUM HANDRAIL DISTANCE TO BRICK VENEER



1 CONCRETE STAIR #2 DETAIL  
SCALE: 1" = 1'-0" (30" x 42" PAPER SIZE)



SECTION C-C



3 CONCRETE STAIR #2 ELEVATION  
SCALE: 1" = 1'-0" (30" x 42" PAPER SIZE)

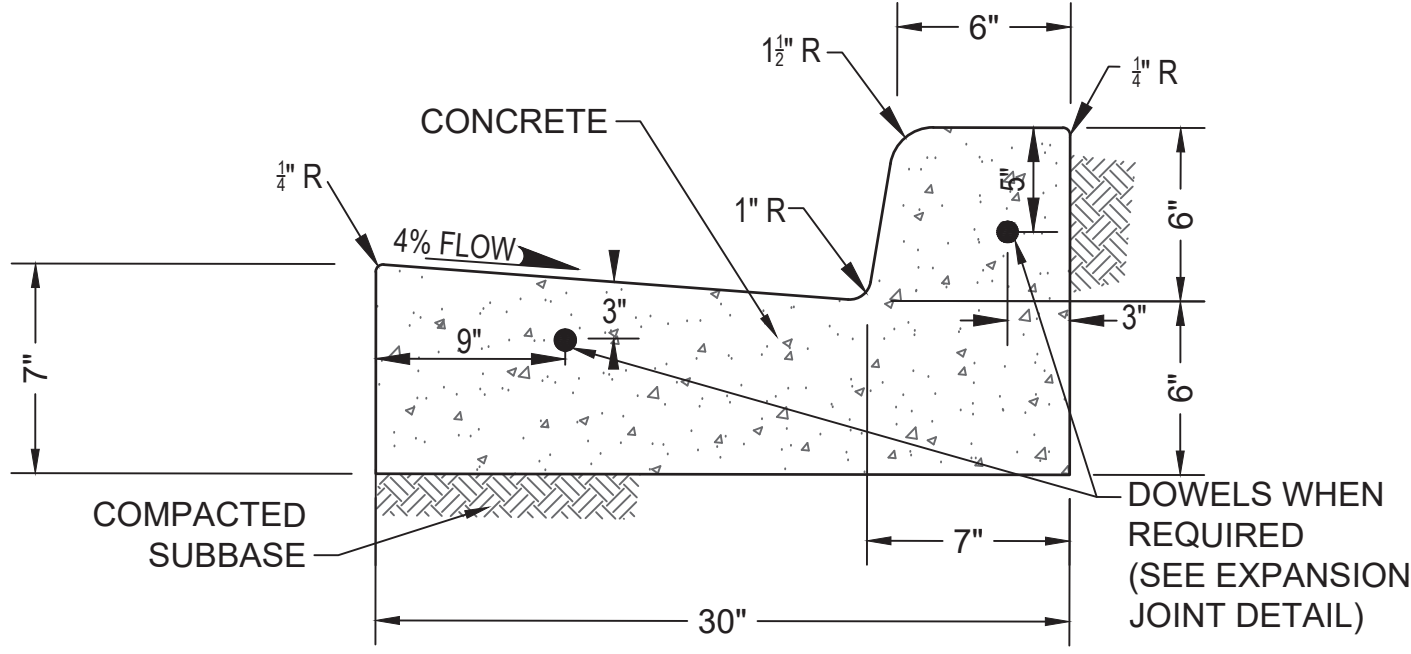
Revisions:		Date:		CONSULTANTS		ARCHITECT/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
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								EDWIN J. BRODMARKLE, PE DATE: 2022.08.04 LICENSE NO: 55409				Approved: Project Director		FULLY SPRINKLERED		Location		Building Number	
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																Issue Date		Drawing Number	
																08/04/2022		C-502	
																Checked		Drawn	
																EB		AB	



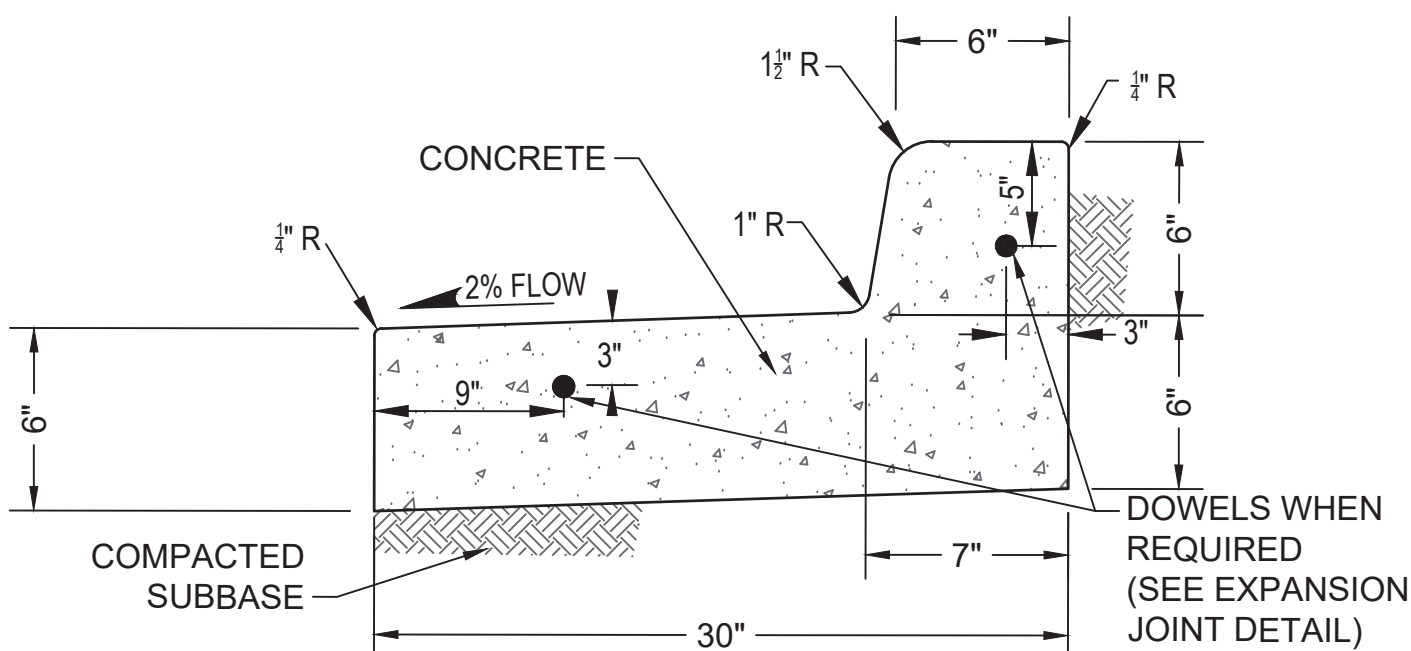




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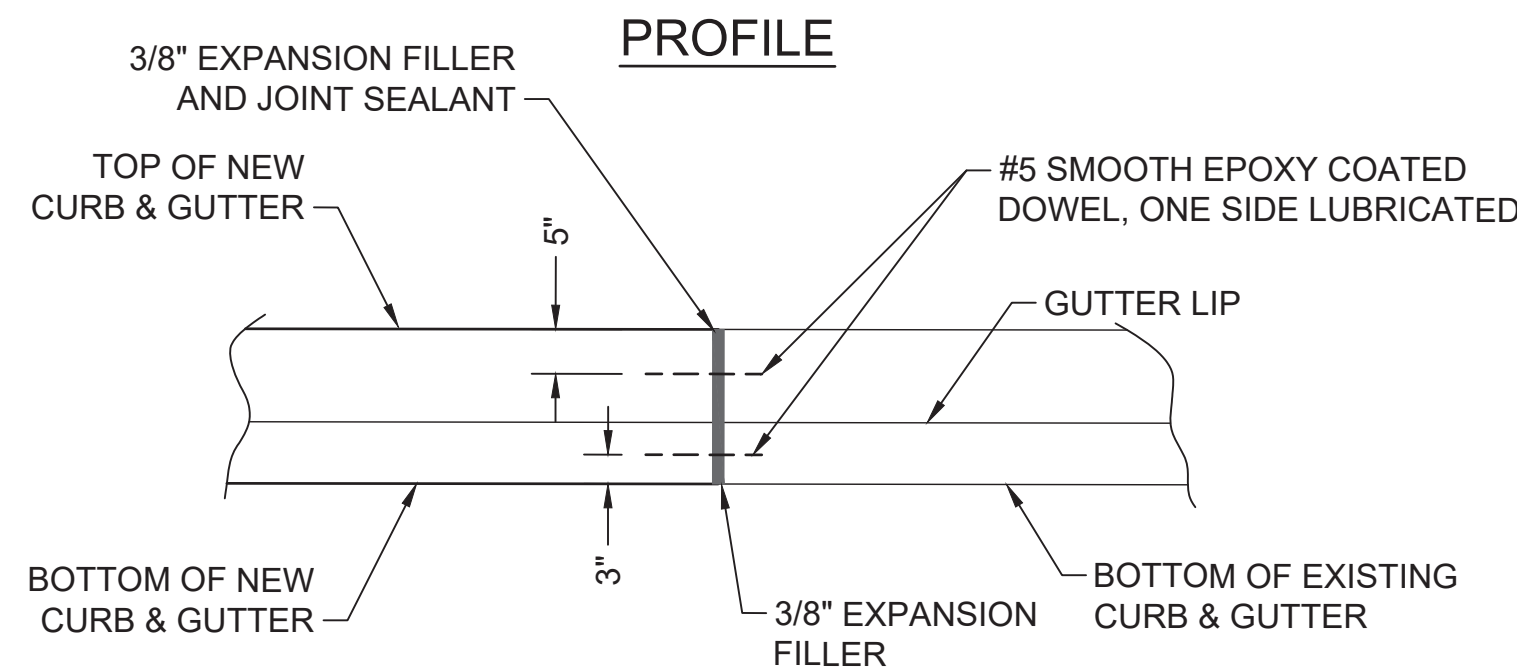
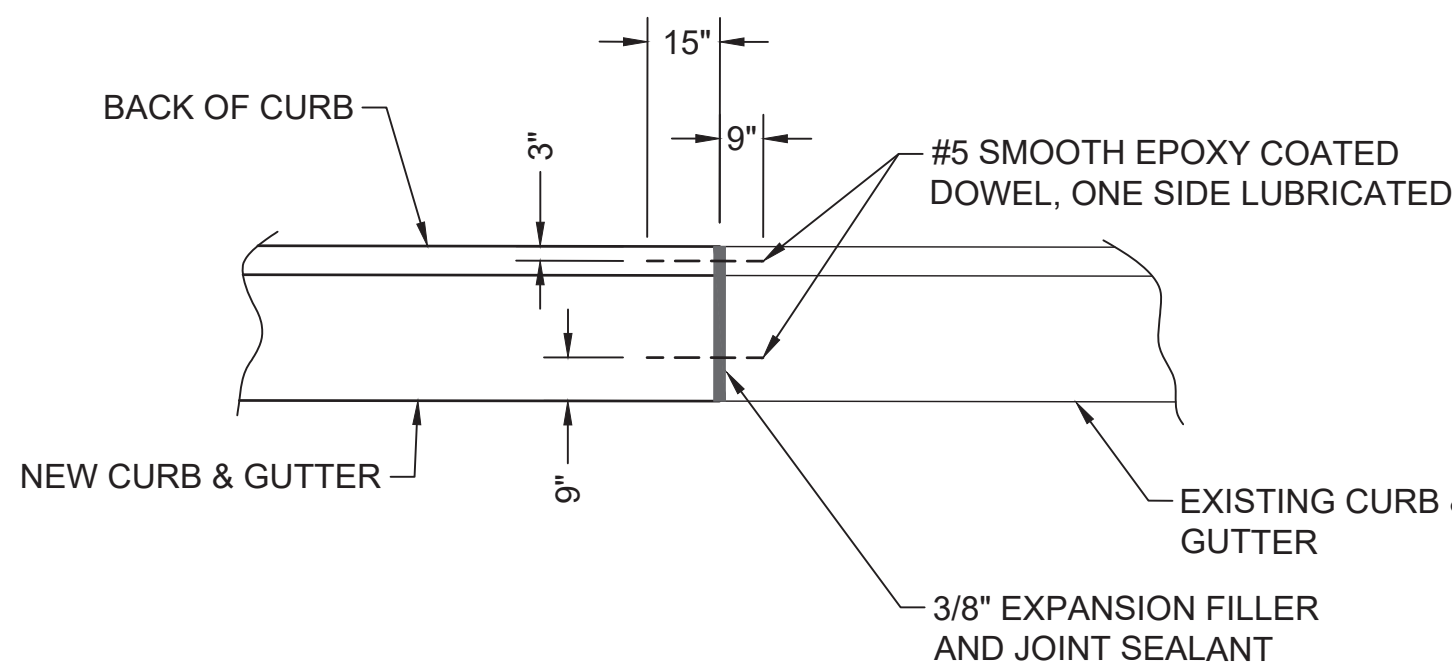


30" WIDE STANDARD CURB AND GUTTER  
NTS

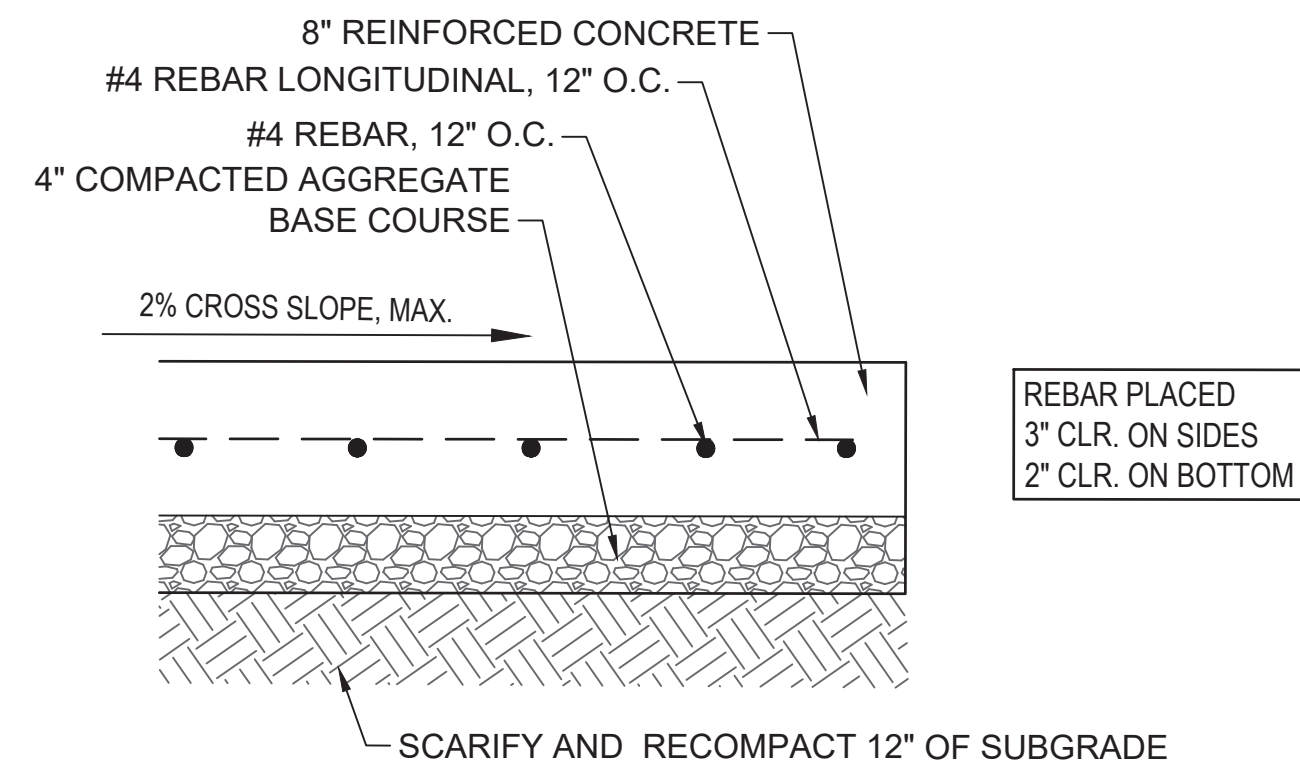


30" WIDE TIP-OUT CURB AND GUTTER  
NTS

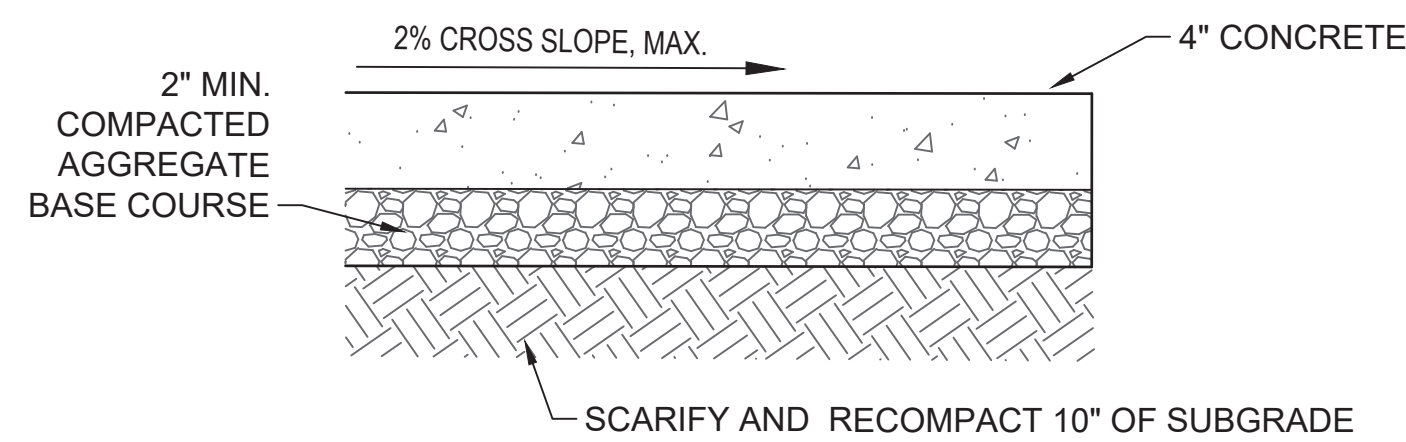
1 30" CURB TYPICAL SECTIONS  
SCALE: NTS



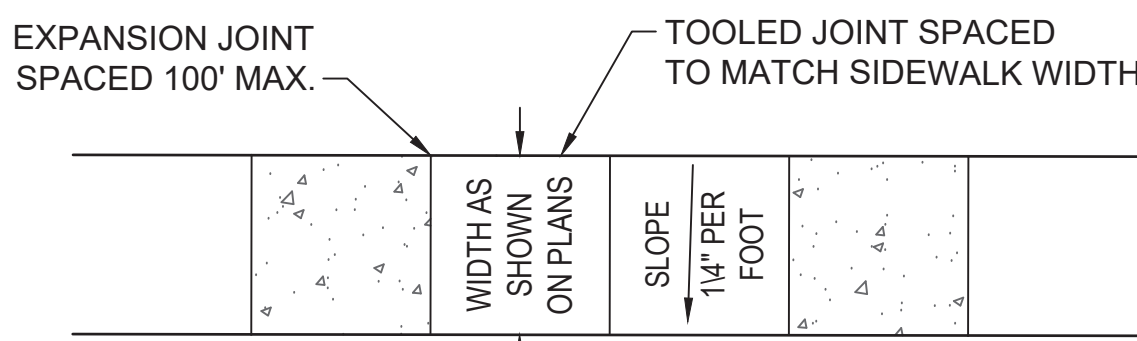
2 CURB AND GUTTER ISOLATION (EXPANSION) JOINT  
SCALE: NTS



REINFORCED SECTION

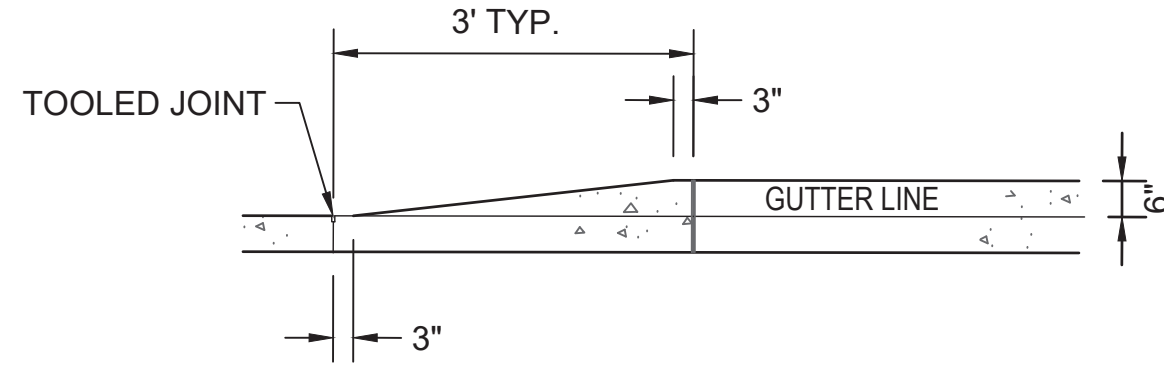


NON-REINFORCED SECTION

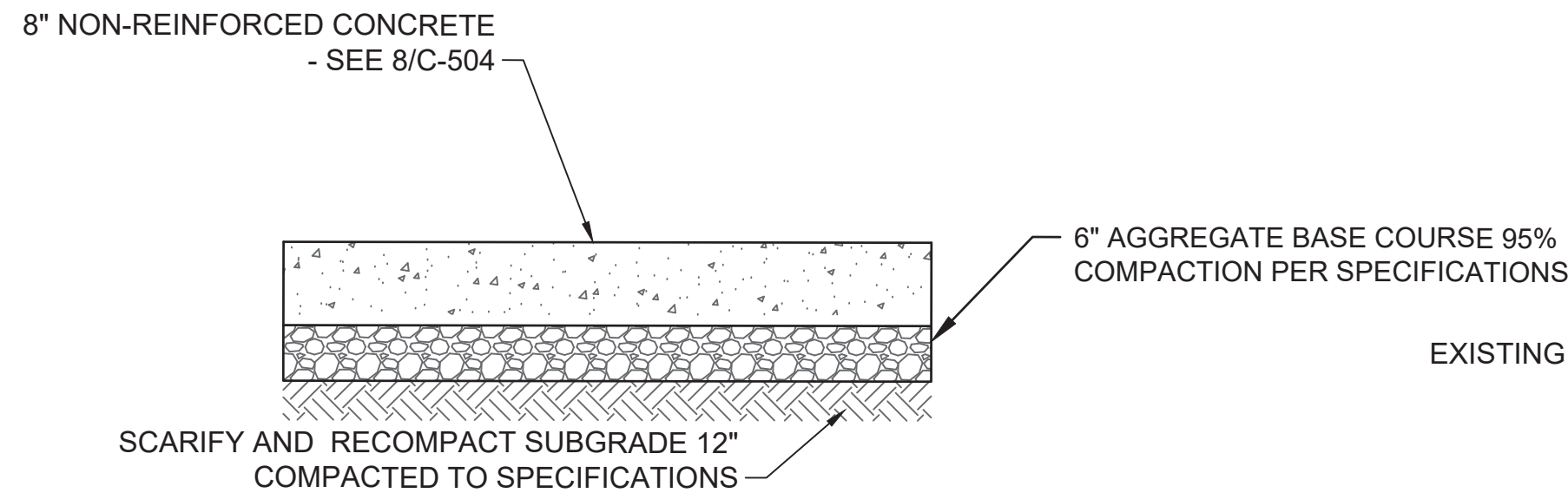


PLAN

8 SIDEWALK DETAIL  
SCALE: NTS

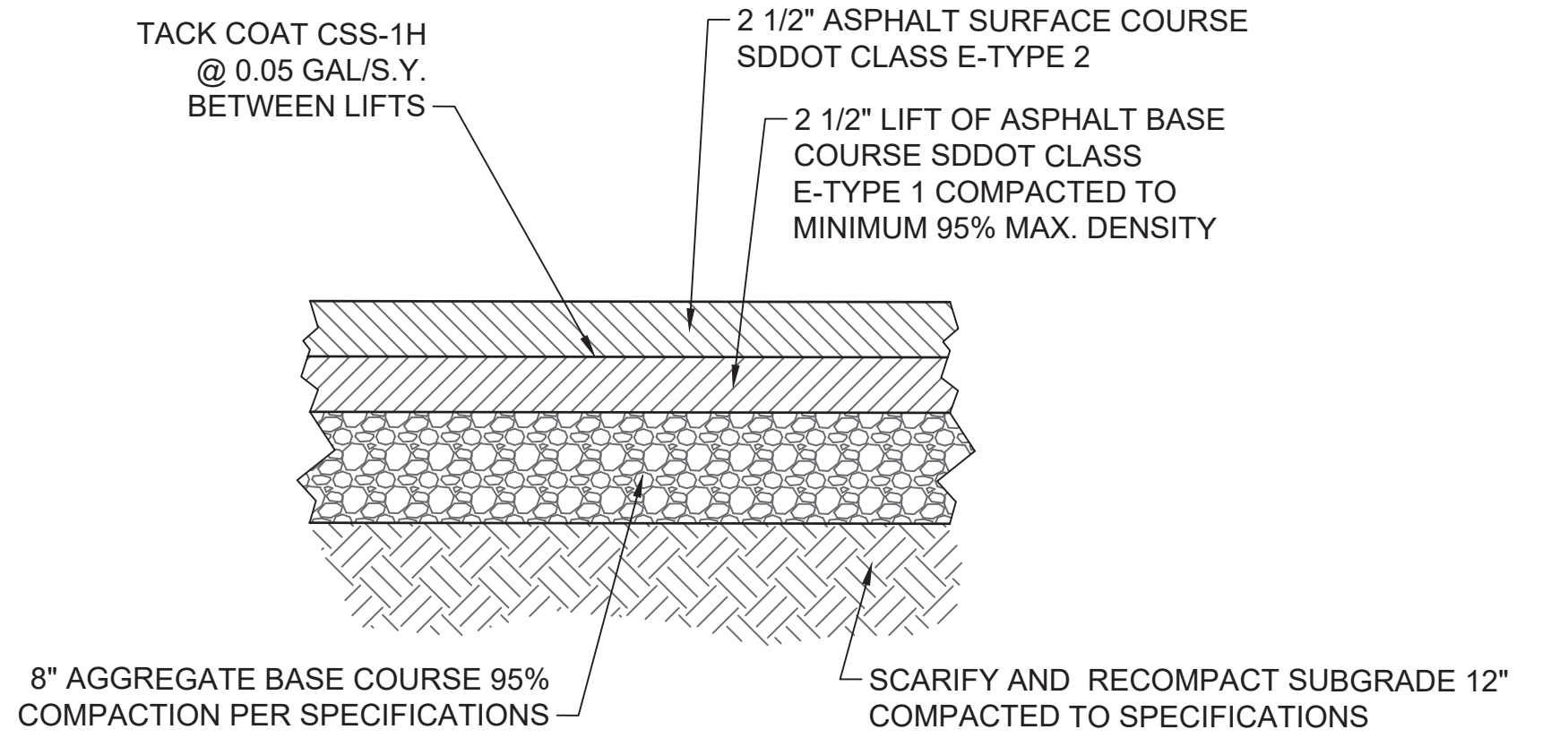


3 CURB TAPER DETAIL  
SCALE: NTS

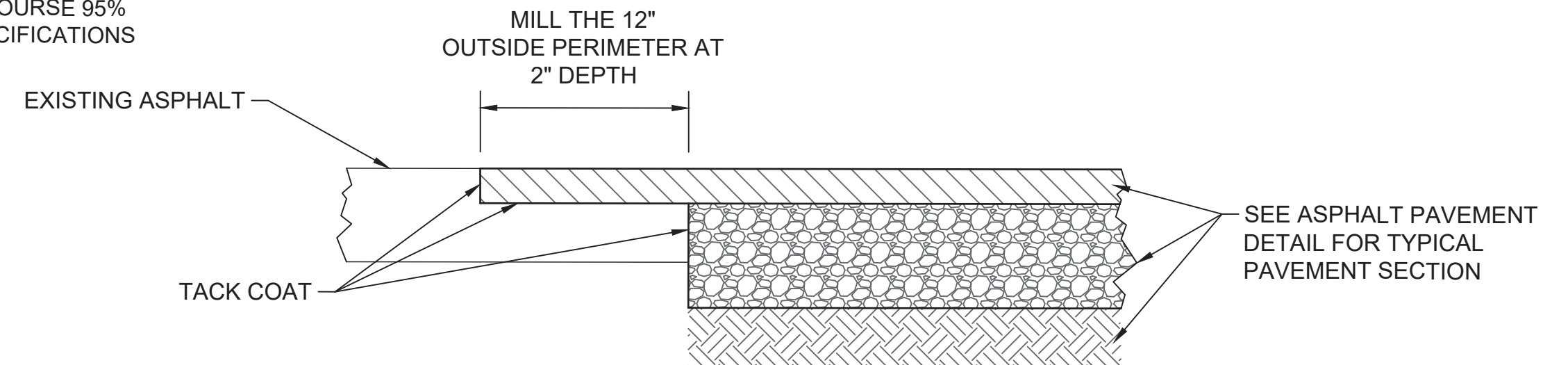


NOTE: IF CONTRACTOR OPTS TO DRIVE OVER BASE COURSE WITH CONSTRUCTION TRAFFIC PRIOR TO PAVEMENT PLACEMENT ADDITIONAL BASE COURSE WILL LIKELY BE NECESSARY. IF RUTTING OCCURS, BASE COURSE SHOULD BE REMOVED, SUBGRADE SHAPED AND COMPACTED AND BASE COURSE REINSTALLED.

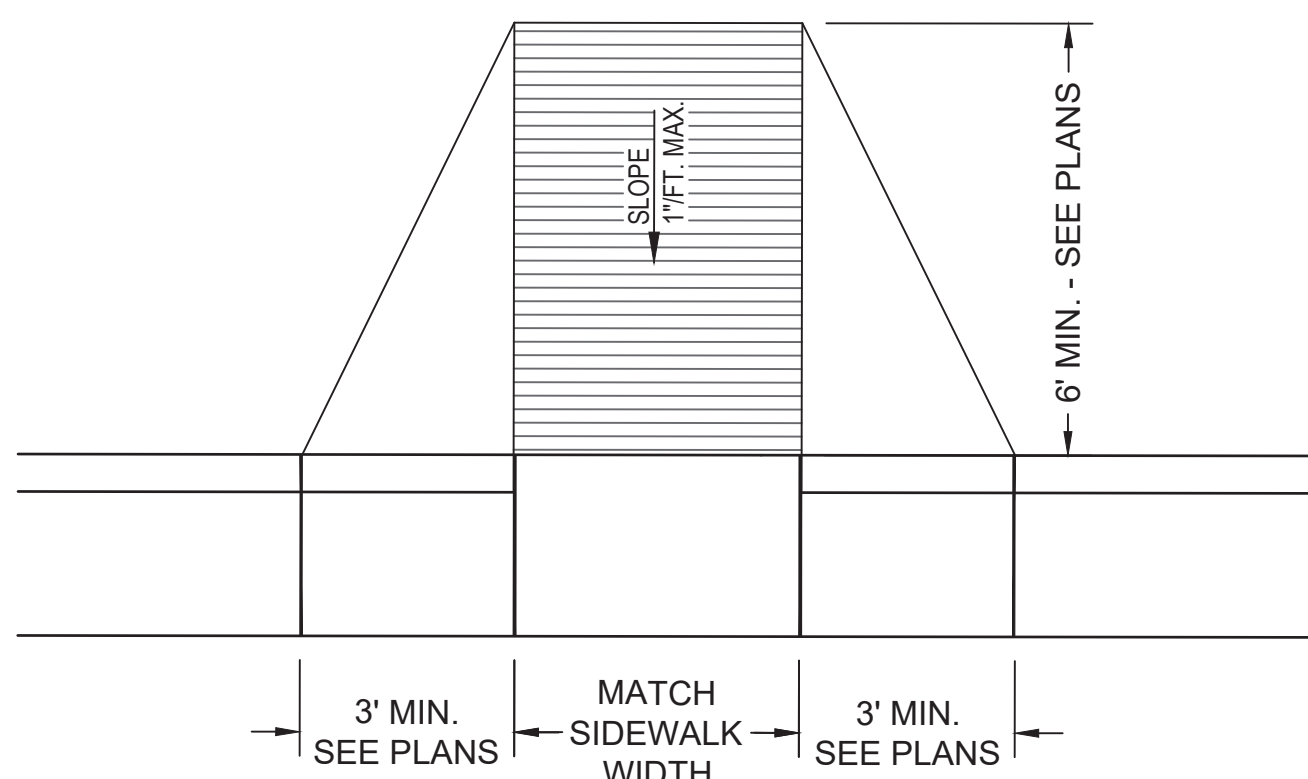
4 CONCRETE PAVEMENT DETAIL  
SCALE: NTS



5 ASPHALT PAVEMENT DETAIL  
SCALE: NTS

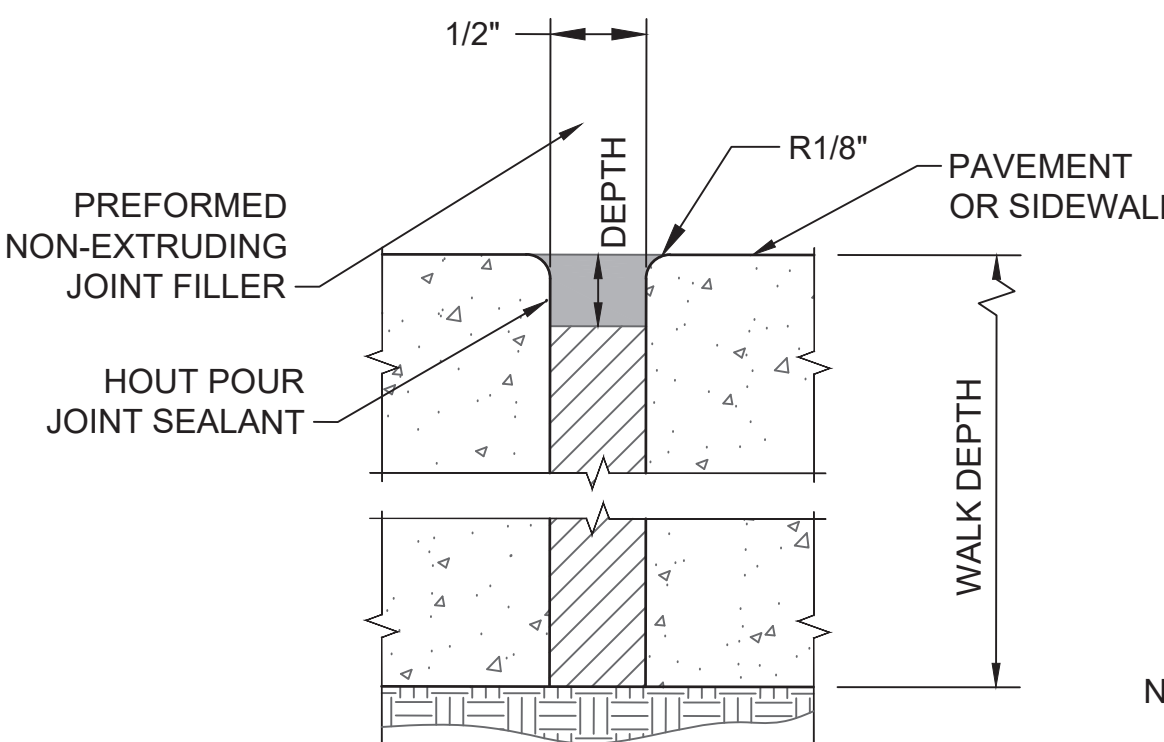


6 ASPHALT ABUTMENT DETAIL  
SCALE: NTS

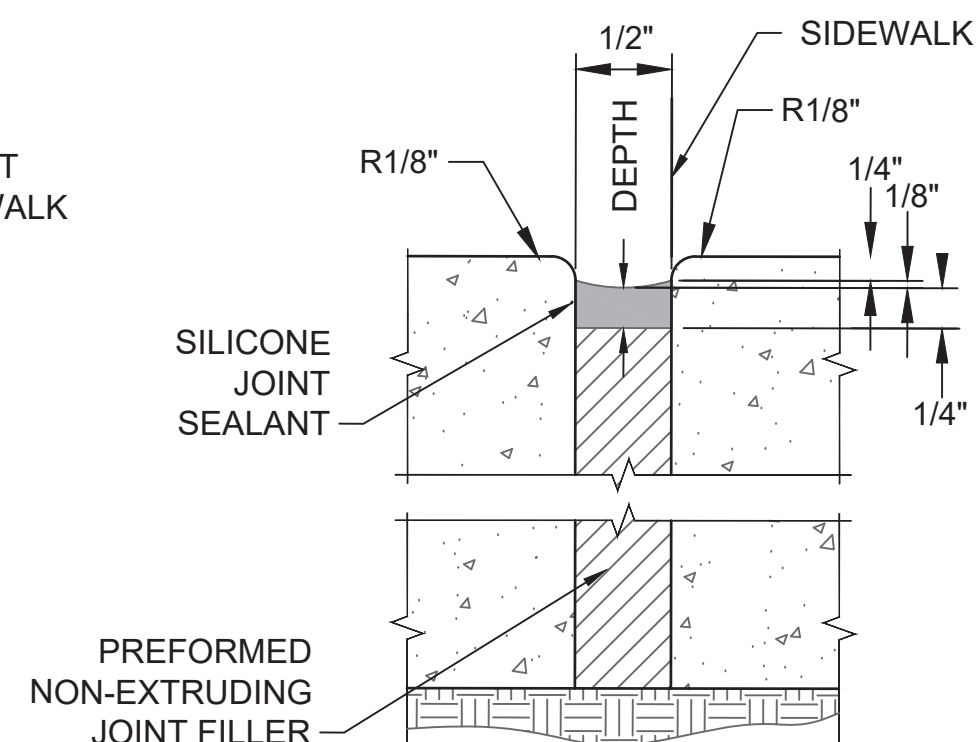


NOTES:  
1. SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY A COARSE BROOMING AND FINING, TRANSVERSE TO THE SLOPE OF THE RAMP.  
2. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.  
3. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP OPENING.  
4. CROSS SLOPES SHALL NOT EXCEED 2%.

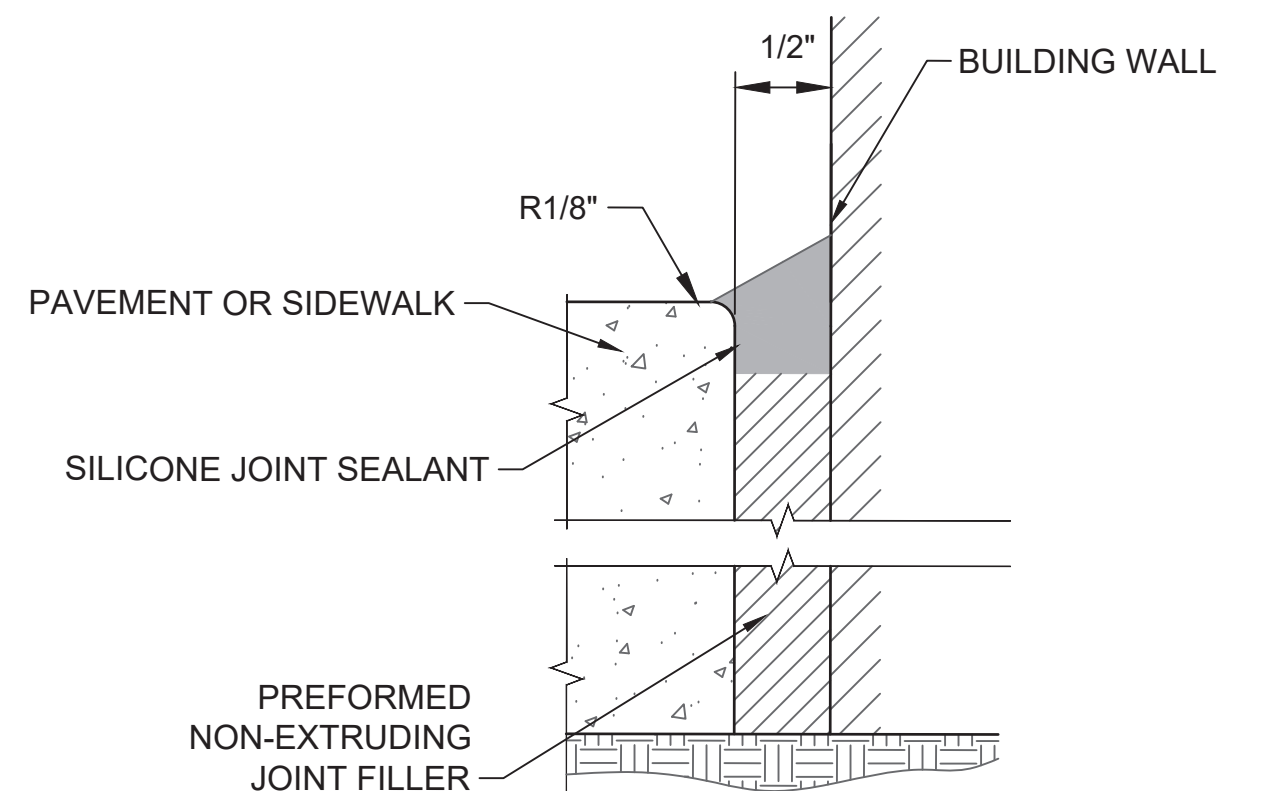
7 ABA CURB RAMPS  
SCALE: NTS



PAVEMENT ISOLATION JOINT W/ HOT  
POUR SEALANT



SIDEWALK OR PAVEMENT ISOLATION  
JOINT WITH SILICONE SEALANTS



BUILDING ISOLATION JOINT

10 SIDEWALK OR PAVEMENT ISOLATION (EXPANSION) JOINT DETAILS  
SCALE: NTS

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Revisions:	Date:

CONSULTANTS

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Anderson Engineering of Minnesota, LLC | Proj # 16584

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EDWIN J. BRODMARKLE, PE  
DATE: 2022.08.04 LICENSE NO: 55409

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title

CIVIL DETAILS

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

08/04/2022

Checked

EB

Drawn

AB

Project Number

438-460

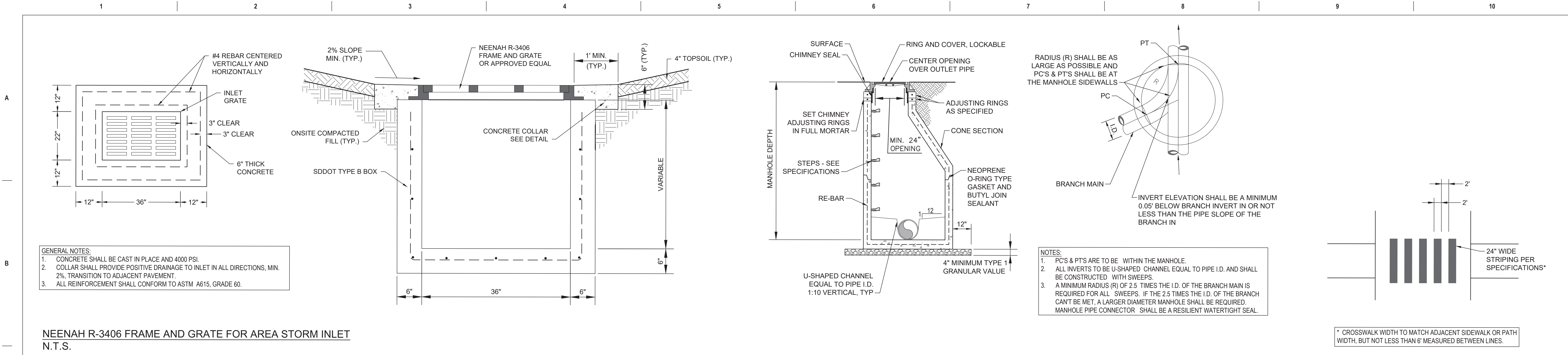
Building Number

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Drawing Number

C-504

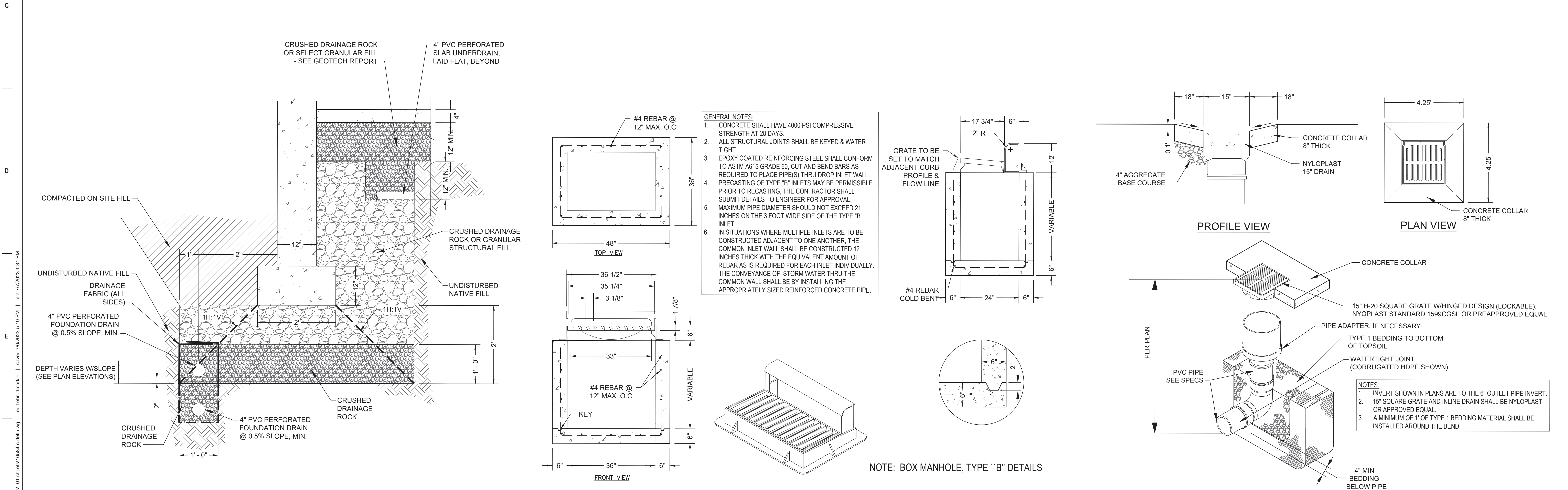




1 AREA INLET  
SCALE: NTS

2 SANITARY SEWER MANHOLE  
SCALE: NTS




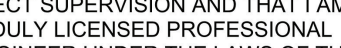

3 CROSSWALK DETAIL  
SCALE: NTS



4 FOUNDATION DRAIN DETAIL  
SCALE: NTS

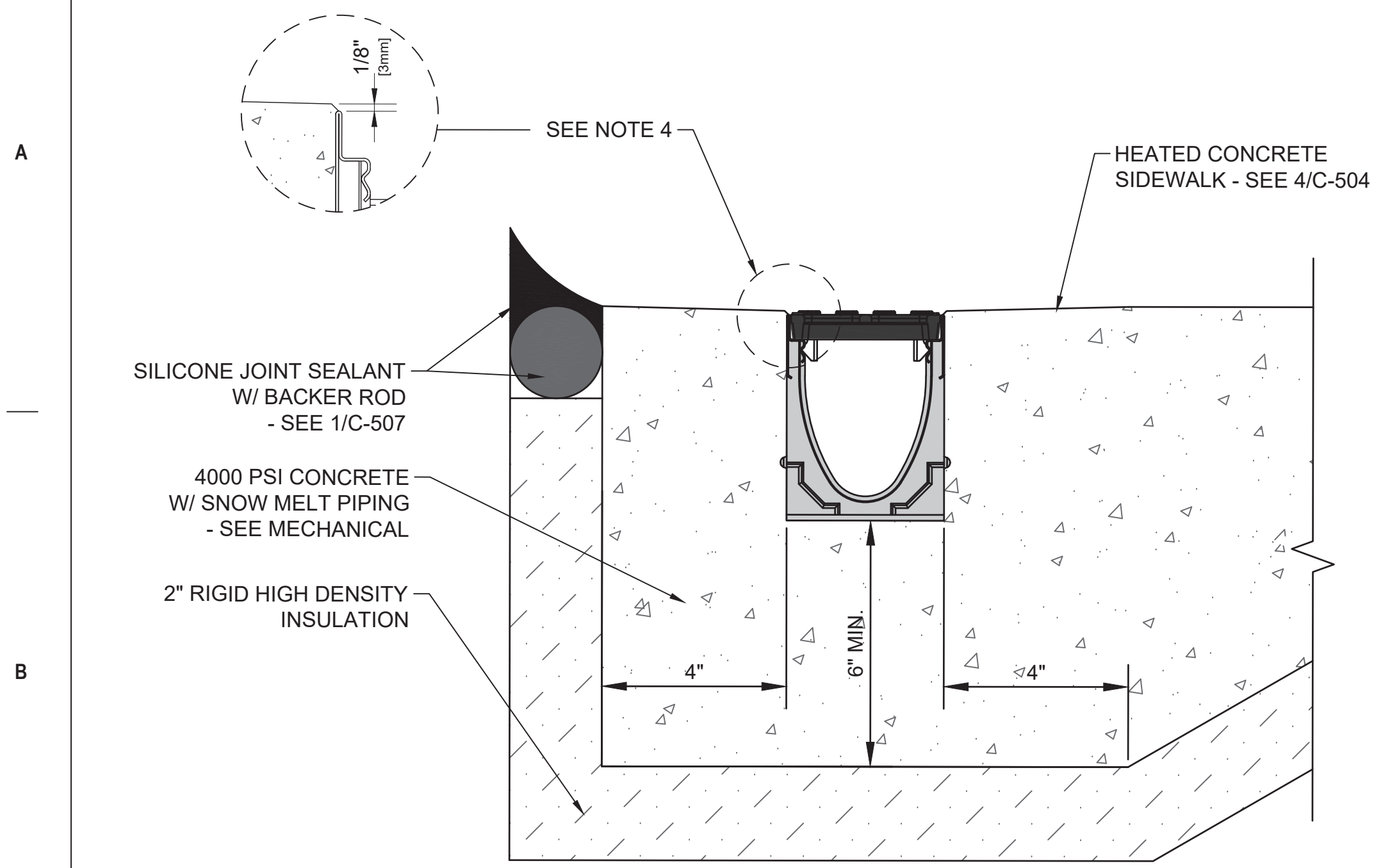
5 TYPE B INLET DETAIL  
SCALE: NTS

6 NYLOPLAST 15" SQUARE GRATE INLINE DRAIN  
SCALE: NTS

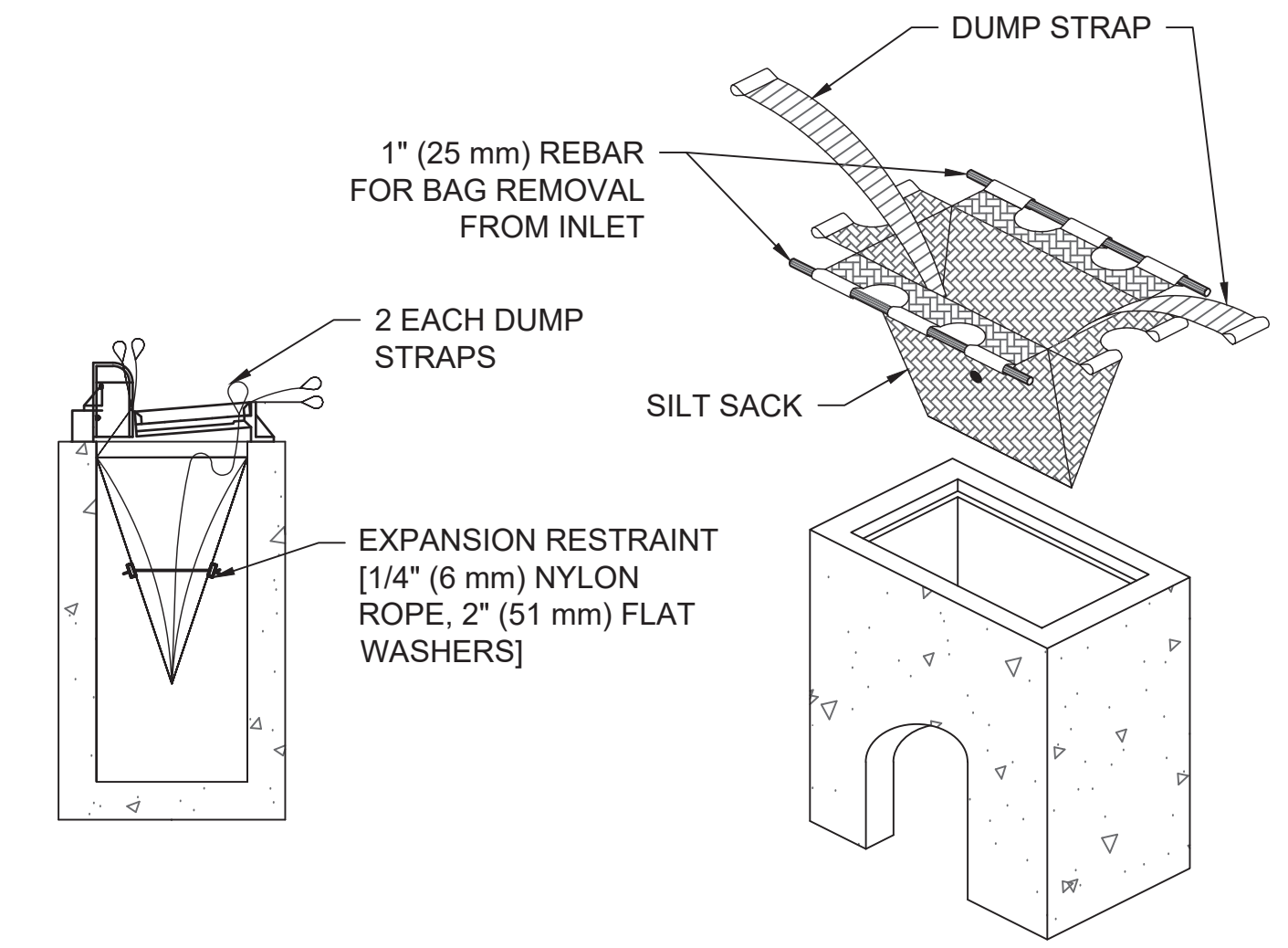
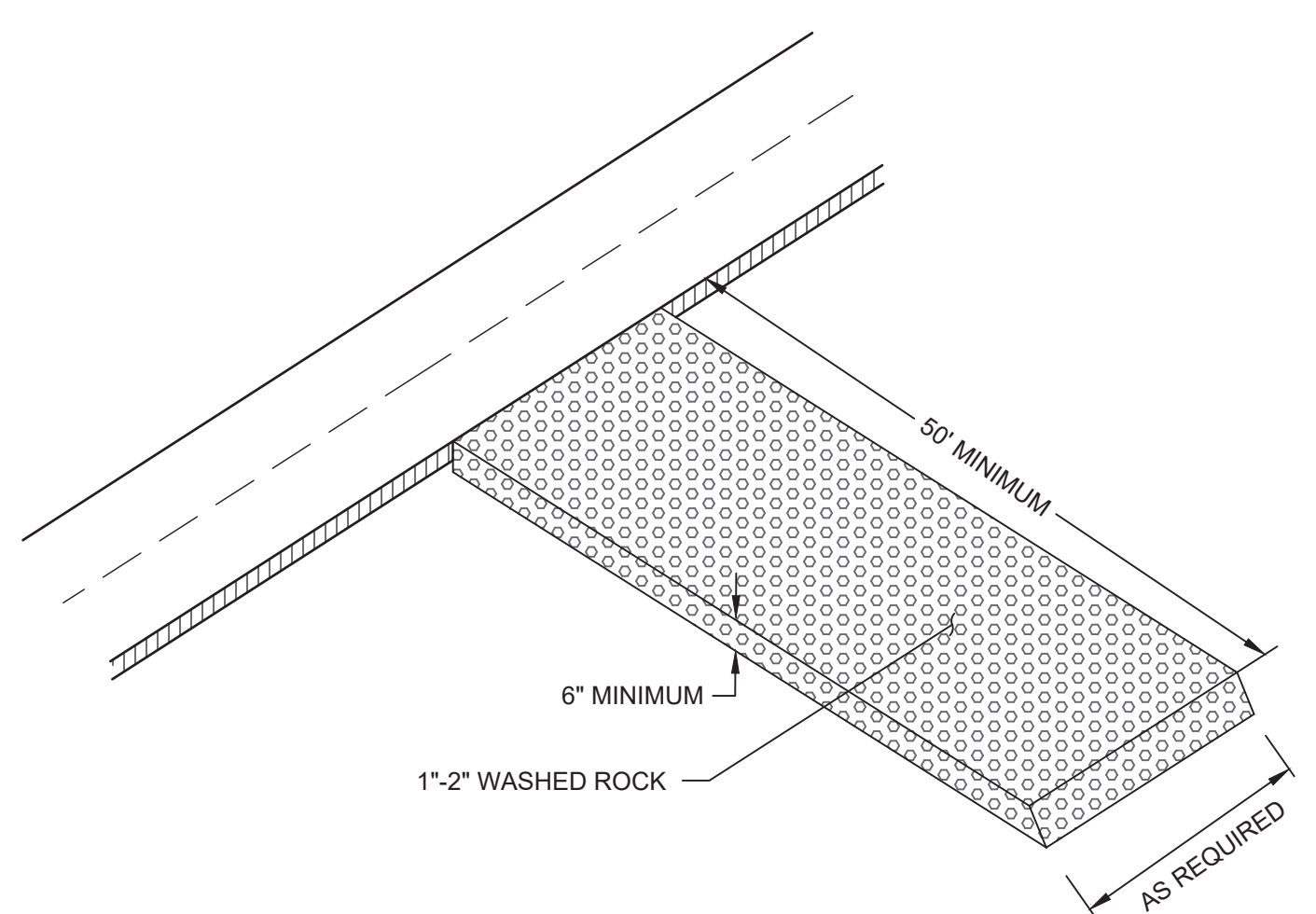
		<div>CONSULTANTS</div> <div></div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div></div> <div>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000   F 763.412.4090   <a href="mailto:ae-mn.com">ae-mn.com</a> Anderson Engineering of Minnesota, LLC   <a href="mailto:Proj#16584">Proj#16584</a></div>	<div>STAMP</div> <div>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</div> <div> EDWIN J. BRODMARKLE, PE DATE: 2022.08.04 LICENSE NO: 56409</div>	<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>	Drawing Title	Phase	Project Title	Project Number
CIVIL DETAILS	BID DOCUMENTS					CONSTRUCT NEW SPS	438-460		
Approved: Project Director						Location	Drawing Number		
SIoux FALLS VA HEALTH CARE SYSTEM	FULLY SPRINKLERED					SIoux FALLS, SOUTH DAKOTA	C-505		
						Issue Date	Checked	Drawn	
		08/04/2022	EB	AB					
Revisions:	Date:								

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VA FORM 08 - 6231





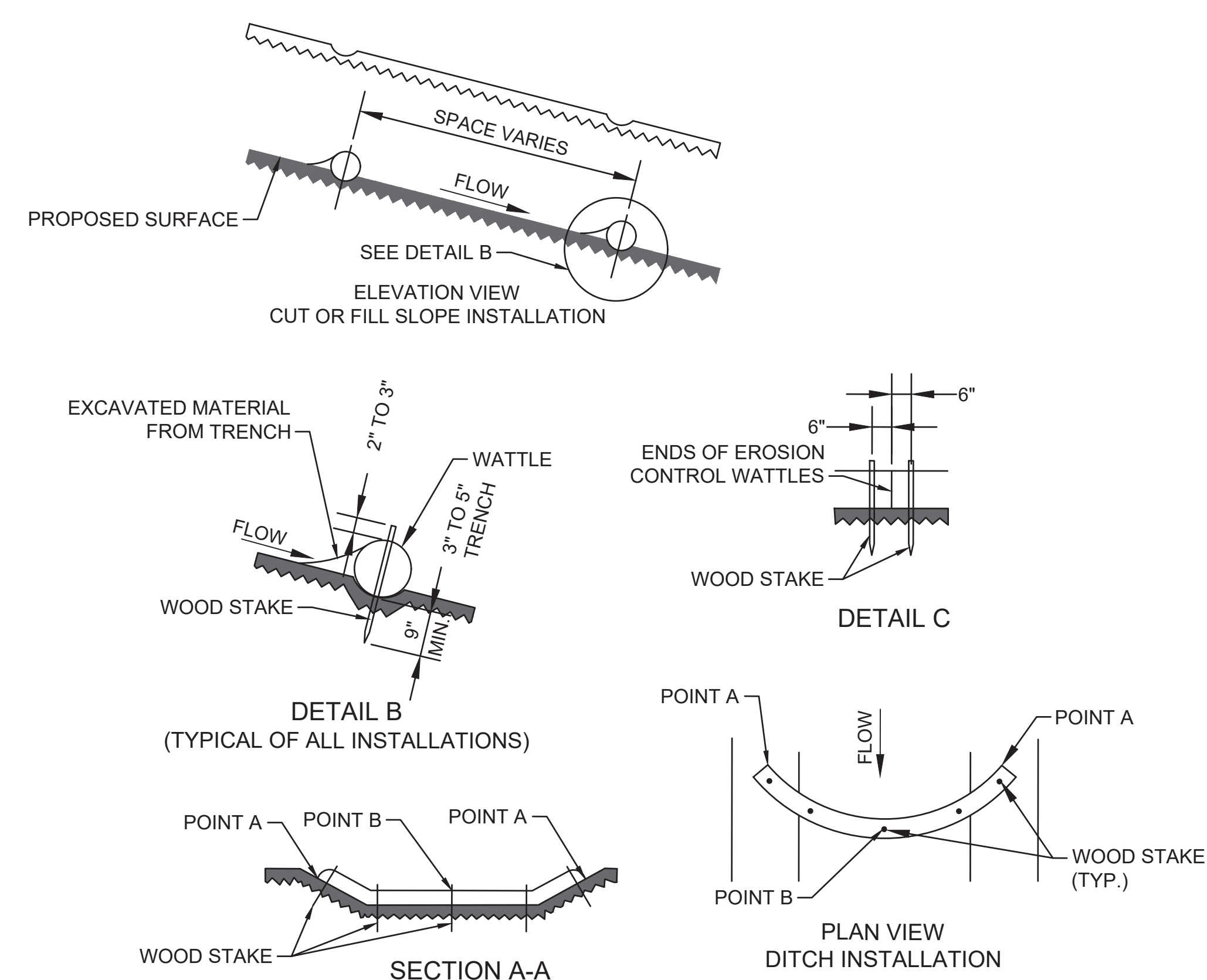
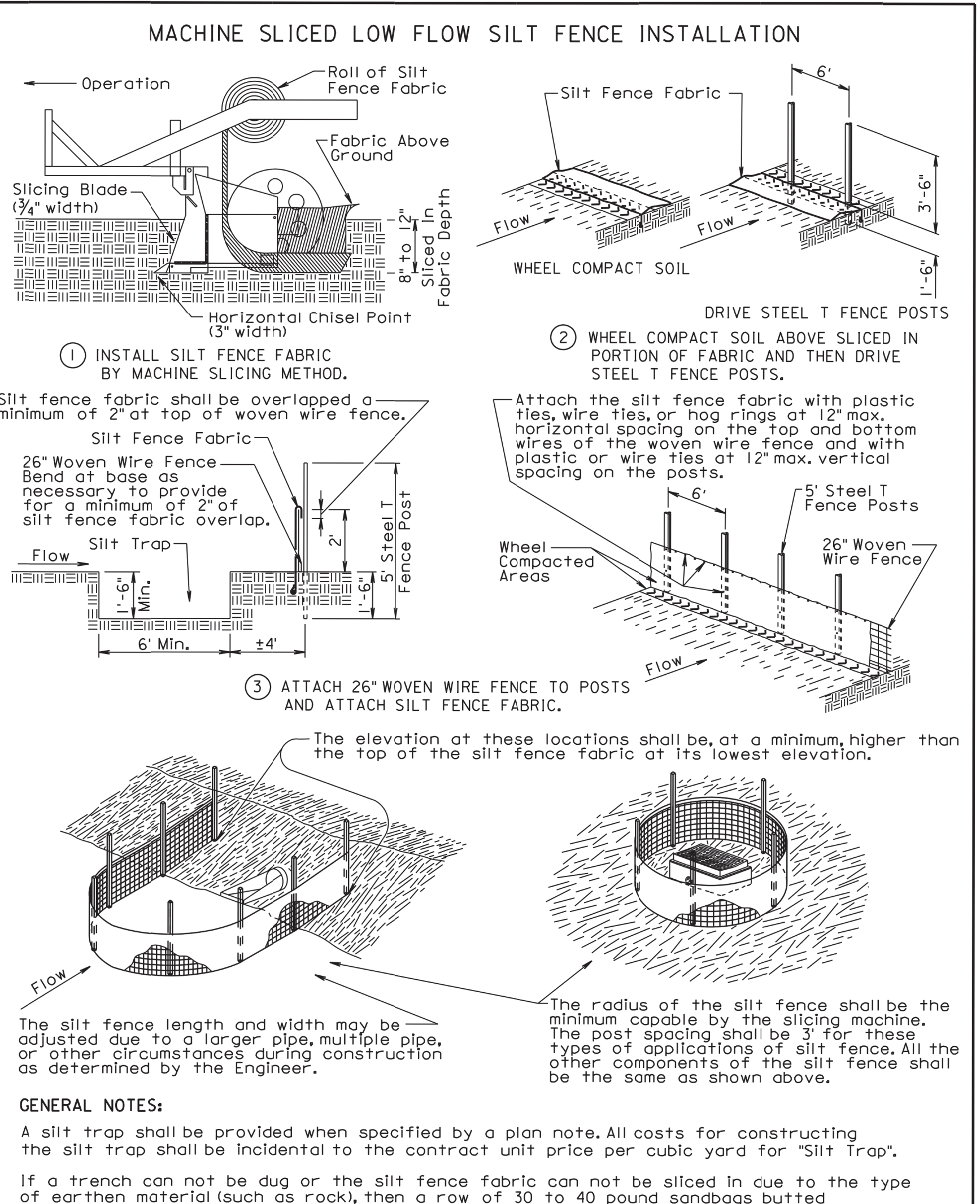
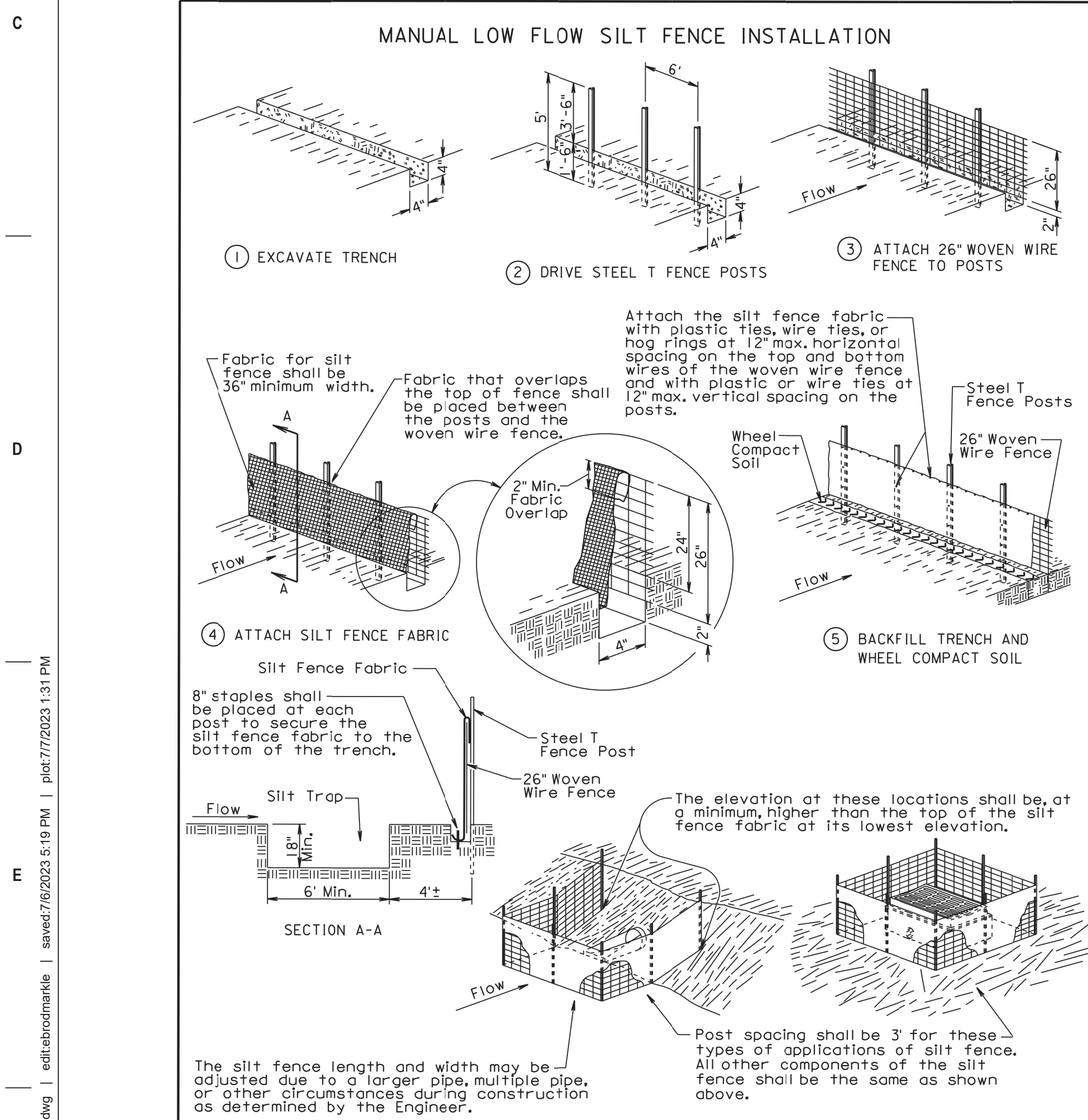
NOTES:  
1. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.  
2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.  
3. THE SYSTEM SHALL BE 4" NOMINAL INTERNAL WIDTH WITH A 5.1" OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.  
4. THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. OR APPROVED EQUAL.  
5. CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN STAINLESS STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:  
COMPRESSIVE STRENGTH: 14,000 PSI  
FLEXURAL STRENGTH: 4,000 PSI  
TENSILE STRENGTH: 1,500 PSI  
WATER ABSORPTION: 0.07%  
FROST PROOF: YES  
DILUTE ACID AND ALKALI RESISTANT: YES  
8117 SALT SPRAY TEST COMPLIANT: YES  
6. FOLLOW SEALANT MANUFACTURER'S RECOMMENDATIONS FOR 2" WIDE JOINT.



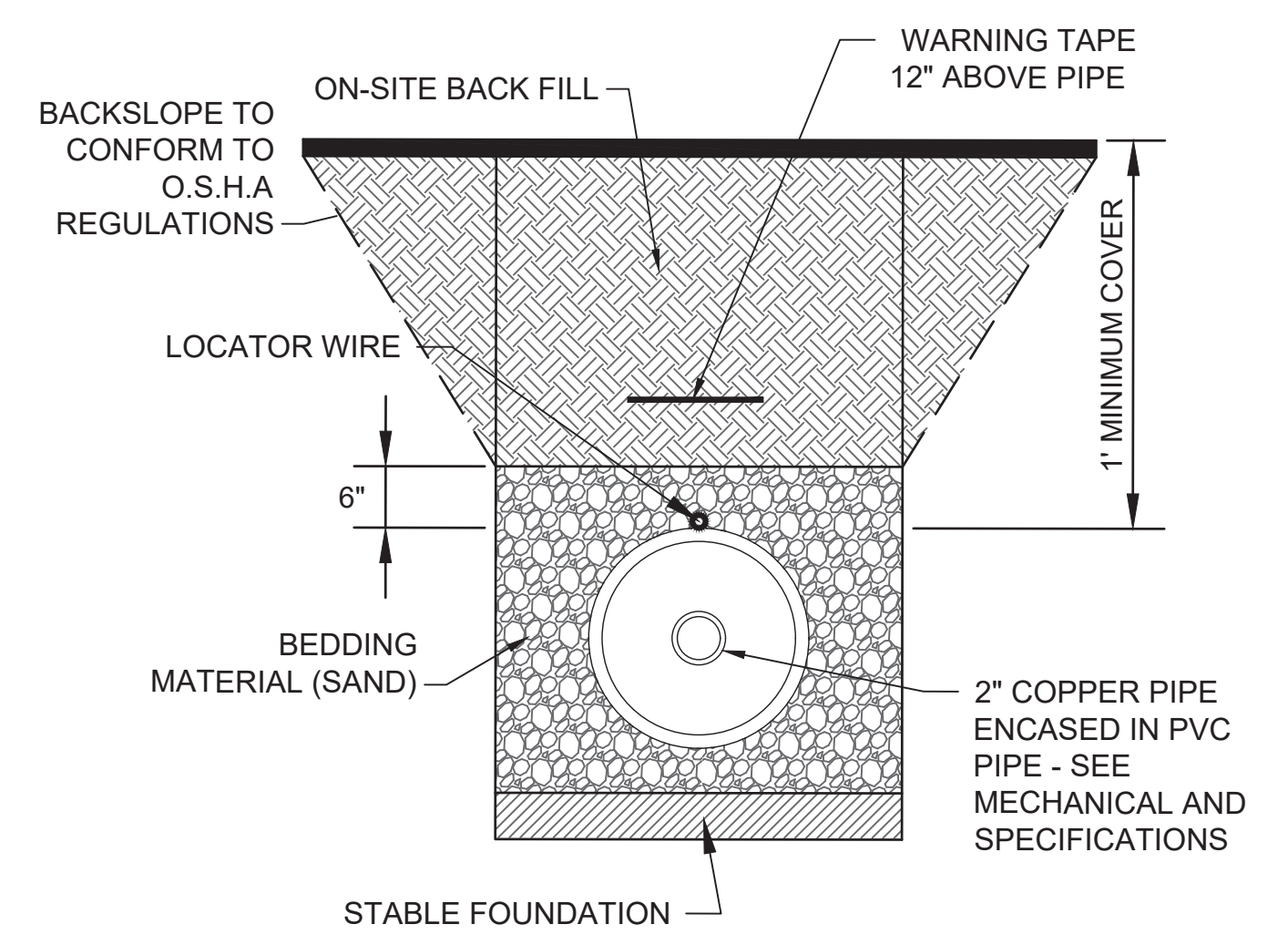
1 TRENCH DRAIN DETAIL  
SCALE: NTS

2 ROCK CONSTRUCTION ENTRANCE DETAIL  
SCALE: NTS

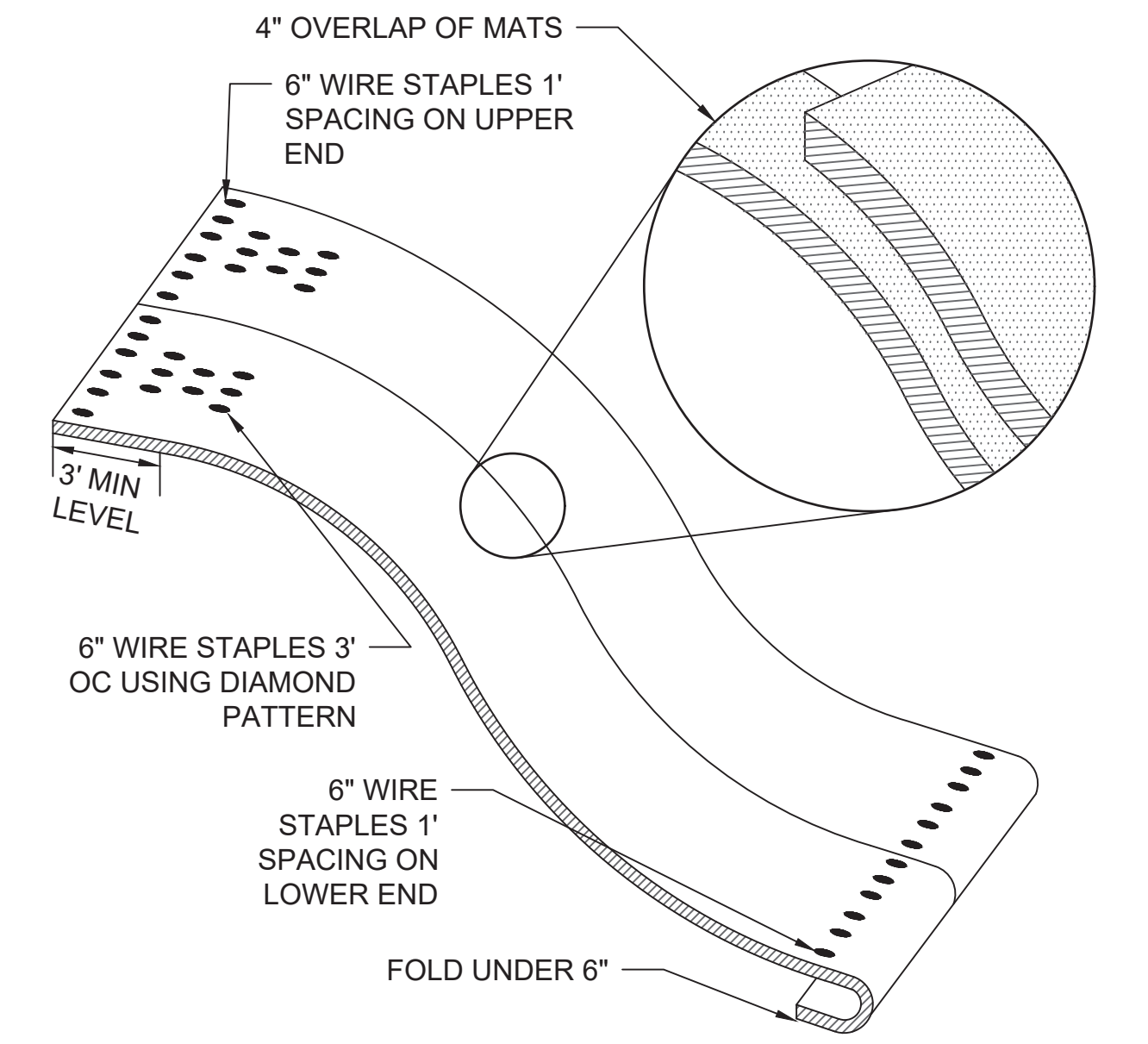
3 INLET PROTECTION DETAIL  
SCALE: NTS



GENERAL NOTES:  
1. AT CUT OR FILL SLOPE INSTALLATIONS WATTLES SHALL BE INSTALLED ALONG THE CONTOUR AND PERPENDICULAR TO THE WATER FLOW.  
2. AT DITCH INSTALLATIONS, POINT "A" MUST BE HIGHER THAN POINT "B" SO THAT WATER FLOWS OVER THE WATTLE AND NOT AROUND THE ENDS.  
3. THE CONTRACTOR SHALL DIG A 3" TO 5" TRENCH, INSTALL THE WATTLE TIGHTLY IN THE TRENCH SO THAT DAYLIGHT CAN NOT BE SEEN UNDER THE WATTLE, AND THEN COMPACT THE SOIL EXCAVATED FROM THE TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. SEE DETAIL B.  
4. THE STAKES SHALL BE 1"x2" OR 2"x2" WOOD STAKES. HOWEVER, OTHER TYPES OF STAKES SUCH AS REBAR MAY BE USED. THE STAKES SHALL BE PLACED 6" FROM THE ENDS OF THE WATTLES AND THE SPACING OF THE STAKES ALONG THE WATTLES SHALL BE 3' TO 4'.  
5. WHERE INSTALLING RUNNING LENGTHS OF WATTLES, THE CONTRACTOR SHALL BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST AND SHALL NOT OVERLAP THE ENDS. SEE DETAIL C.



6 OXYGEN LINE TRENCH DETAIL  
SCALE: NTS




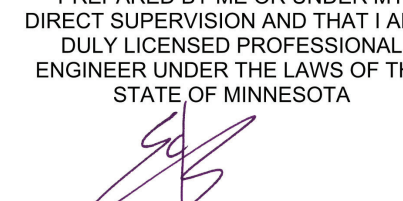



7 EROSION CONTROL BLANKET  
SCALE: NTS

4 SILT FENCE DETAILS  
SCALE: NTS

5 SEDIMENT CONTROL WATTLE  
SCALE: NTS

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